

KEYSTONE PROPERTY
ASSESSMENT REPORT (JUNE-JULY 1981)
ON
SOIL SURVEYS AND TRENCHING
OVER KEYSTONE, BONANZA AND COMSTOCK CLAIMS

81-#791-9648

COQUIHALLA PASS AREA
NICOLA MINING DIVISION
N.T.S. 92H/11E
LATITUDE: 49°41', LONGITUDE: 120°01'

WESTMIN RESOURCES LIMITED

AUGUST 1981

DEL W. FERGUSON

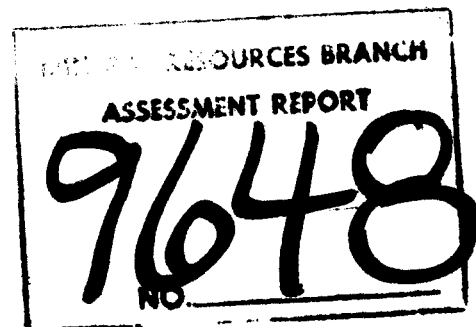


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INTRODUCTION

During the summer of 1981 geological mapping and soil and rock sampling were conducted over the Keystone, Bonanza and Comstock claims of the Keystone Mineral Group of claims. Fieldwork was conducted by D.W. Ferguson, Project Geologist and B. Grant and D. Bellavance, Field Assistants.

LOCATION, ACCESS AND PHYSIOGRAPHY

The Keystone Group of claims is situated 64 kilometres southwest of Merritt, in the Nicola Mining Division (92H/11E). It is located approximately 6 kilometres north of the Coquihalla Lakes on the west side of the Coldwater River.

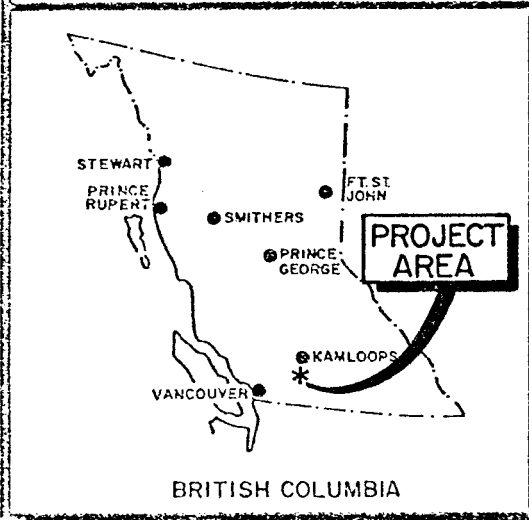
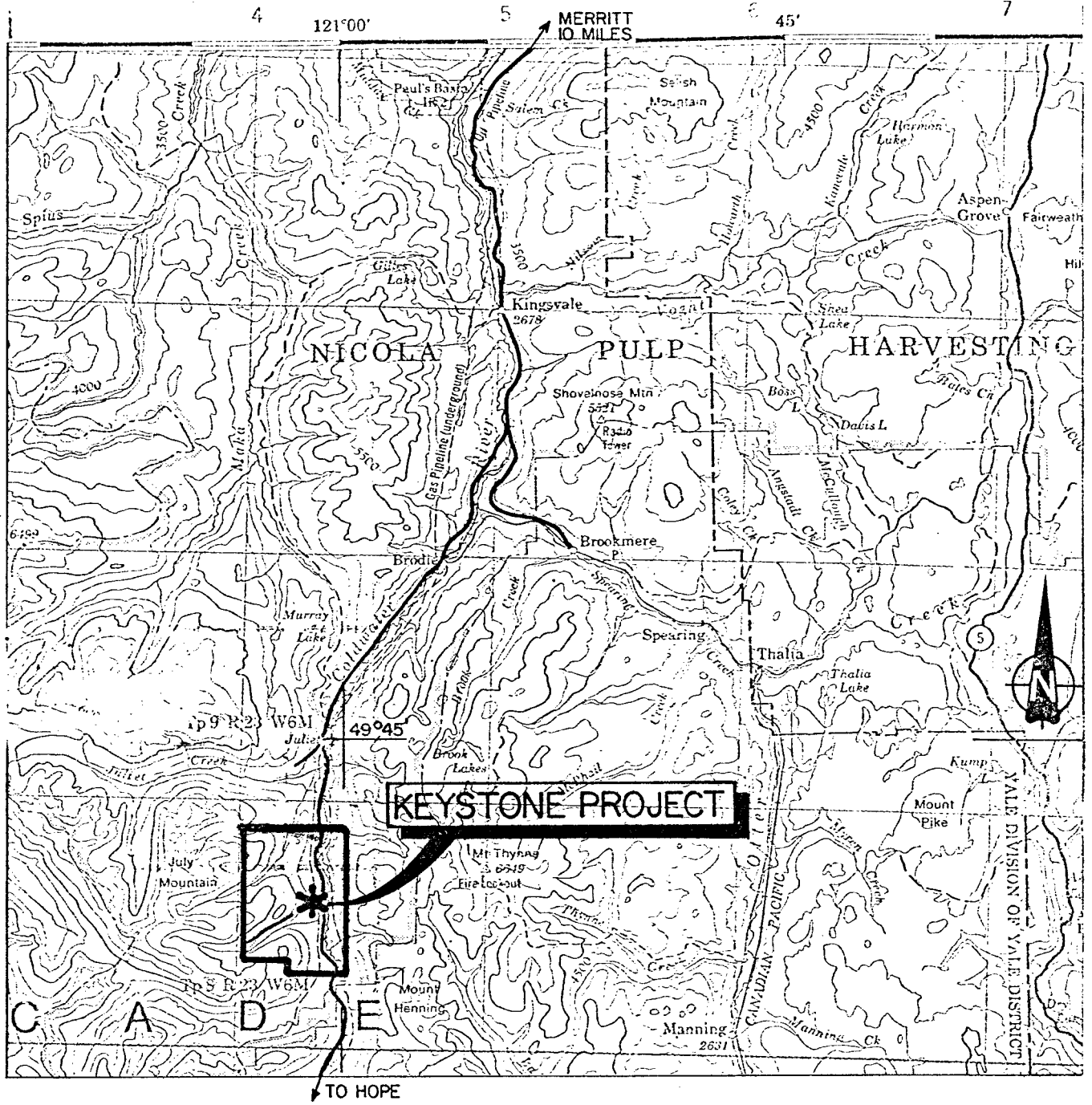
Access to the property is from Merritt by good gravel road, or by gravel road from Hope, 53 kilometres north, through the Coquihalla Pass.

The claims are moderately well timbered with fir, spruce, pine and cedar, part of which has been actively logged. Relief is generally moderate, with steep banks along the main creek drainages.

CLAIM STATISTICS

The Keystone Group of claims consists of 80 contiguous units (10 claims) currently held by Westmin Resources Ltd., Vancouver, B.C. Claim status is as follows:

<u>Claim Name</u>	<u>Units</u>	<u>Record No.</u>	<u>Record Date</u>
Hot	12	495	August 9, 1978
Red Bog	6	310	August 5, 1977
River Queen #1	8	311	August 5, 1977
River Queen #2	6	312	August 5, 1977
River Queen #3	6	313	August 5, 1977
Blue Gold	9	337	September 26, 1977
Dry #1	18	487	July 26, 1978
Keystone	6	341	September 26, 1977
Comstock	1	339	September 26, 1977
Bonanza	8	734	October 3, 1979
TOTAL	<u>80</u>		



WESTERN MINES LIMITED

LOCATION MAP

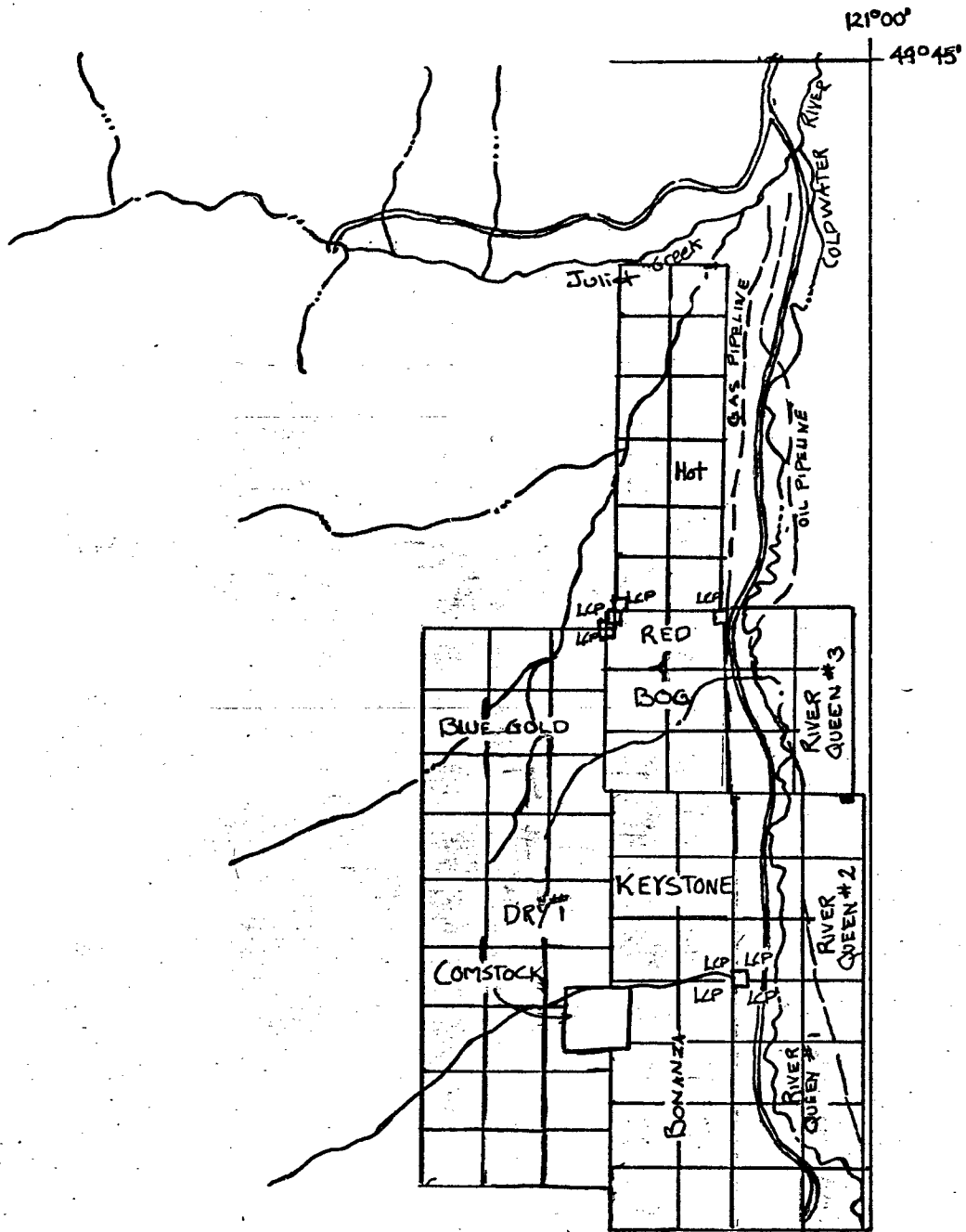
- KEYSTONE PROJECT -

5 0 5 10 15 Km

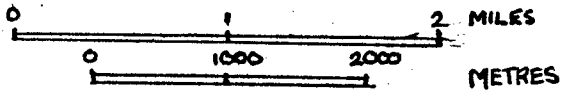
4 0 4 8 Miles

SCALE 1:250,000

DRAWN BY:	
DATE: DEC. 1980	FIGURE 1



CLAIMS
KEYSTONE PROJECT



WESTERN MINES LIMITED			
Claim Map			
FIGURE 2			
Date:	Drawn by:	Revised:	N.M.S. No.

REGIONAL GEOLOGICAL SETTING

The Keystone property is situated on the eastern margin of the Coast Range Batholith. In this vicinity the Upper Triassic-Lower Cretaceous Eagle Granodiorite pluton intrudes Upper Triassic Nicola Group volcanic rocks. A younger phase of this pluton, known locally as the Keystone Quartz Diorite unit, covers the north half of the claims. Younger intrusive breccias cross-cut both the Keystone Quartz Diorite and Eagle Granodiorite units.

SOIL GEOCHEMICAL SURVEYS

During June and July of 1981 two metric grids were established over the Keystone property.

- 1) Keystone Grid - situated north of the Mine Creek
 - 500 metre long baseline striking N30°E from 6+00N to 11+00N
 - 2.08 km of cross lines

- 2) Julie Grid - situated south of Mine Creek
 - 300 metre long baseline striking N30°E from 6+00N to 9+00N
 - 1.60 km of cross lines

A total of 212 soil samples were taken: 141 on the Keystone Grid and 71 on the Julie Grid. All samples were shipped to Chemex Labs Ltd., North Vancouver and sieved through a standard minus 80 mesh screen. The soils were then analysed for Cu, Pb, Zn, Ag and Au using the standard perchloric-nitric acid extraction method and atomic absorption.

RESULTS

Anomalous soil values obtained for elements over both grids are considered as follows:

Cu greater than 25 parts per million
Pb greater than 50 parts per million
Zn greater than 1000 parts per million
Ag greater than 3 parts per million
Au greater than 10 parts per billion

Keystone Grid

All elements, with the exception of Au, exhibit north-east trending anomalous zones across the Keystone Grid. Pb and Zn values coincide to show a soil anomaly extending from 7+00N - 0+25E to 1+50W northeast to 11+00N - 1+25E. Zn, being a more mobile element, extends outward somewhat from the main Pb anomaly and remains open to the northeast. The main Ag anomaly lies inside the Pb contours, extending from 7+50N - 0+20E to 0+40W northeast to 9+50N - 0+50E to 0+10W.

Several weakly anomalous Cu zones are noted over the Keystone Grid. Two of these lie within the strong Pb-Zn anomalous zone. Au is generally present as small isolated highs. One relatively large area of weak to moderate anomalous Au values extends from 9+00N - 0+50W to 0+75W to 9+50N - 0+30E to 0+30W, well within the large Pb-Zn anomaly.

Julie Grid

All elements, with the exception of Au, exhibit north-east trending anomalous zones across the Julie Grid. Coincident Pb-Zn-Ag soil anomalies outline a zone extending from 6+50N - 1+00W northeast to 9+00N - 0+00E to 0+50E. This anomalous zone remains open to both the southwest and northeast.

A weakly anomalous Cu zone does not concur with the anomalous Pb-Zn-Ag zone, but appears slightly offset to the north and east, extending from 7+00N - 0+00E to 9+00N - 0+00E to 1+50E. This anomaly is open to the northeast.

Smaller Cu anomalies occur at:

- a) 6+00N - 1+00E to 1+25E extending northeast to 7+00N - 1+25E to 2+00E and open to the south.
- b) 8+00N - 1+00W to 1+50W and open to the north and west.

A secondary Zn anomaly extends from 7+00N - 1+25W northeast to 8+00N - 1+25W and open to the north. Anomalous Au values occur over the grid only as a few small isolated highs ≥ 20 ppb.

TRENCHING

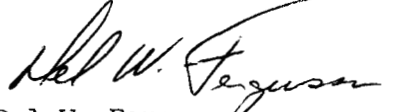
A total of 200 metres of new trenching was established over the Keystone workings. Several old trenches were also reopened on both the Keystone and Julie showings. Trenching consisted of a total of 30.5 hours of caterpillar and 11.0 hours of backhoe work.

STATEMENT OF QUALIFICATIONS

I, DEL W. FERGUSON, of #501 - 1330 Bute Street, Vancouver, B.C. do hereby certify that:

- a) I am a geologist with office address at #1103 - 595 Burrard Street, Vancouver, B.C. V7X 1C4
- b) I am a graduate of the University of Western Ontario with an Honours Bachelor of Science degree in Geology.
- c) I have had two years of geological experience in various phases of exploration in B.C.
- d) I have supervised the 1981 soil surveys and trenching over the Keystone, Bonanza and Comstock Claims.

Respectfully Submitted



Del W. Ferguson
Project Geologist

STATEMENT OF COSTS

a) Cat work - 30.5 hours @ \$49/hr.	\$ 1,494.50
Backhoe - 11.0 hours @ \$40/hr.	440.00
Mobilization & Demobilization Cost (7 hrs. @ \$55/hr.)	385.00
b) Labour	
1 Geologist - 41 days x \$100/day	4,100.00
2 Geological Assistants - 41 days x \$60/man/day	4,920.00
c) Food & Accommodation	
41 days @ \$20/man/day x 3 men	2,460.00
d) Truck & Trailer Rentals	
41 days @ \$45/day	1,845.00
e) Fuel	
41 days @ \$10/day	410.00
f) Miscellaneous Field Expenses (approx.)	300.00
(i.e. sample bags, tags, flagging, topo, moils, chisels, drafting supplies, etc.)	
g) Soil Geochemical Analysis	
212 samples @ \$10.50/sample	2,226.00
h) Report Preparation, drafting & typing	
10 days @ \$100/day	1,000.00
	<u>19,580.50</u> D.F.
	17,261.00
	<u><u> </u></u>

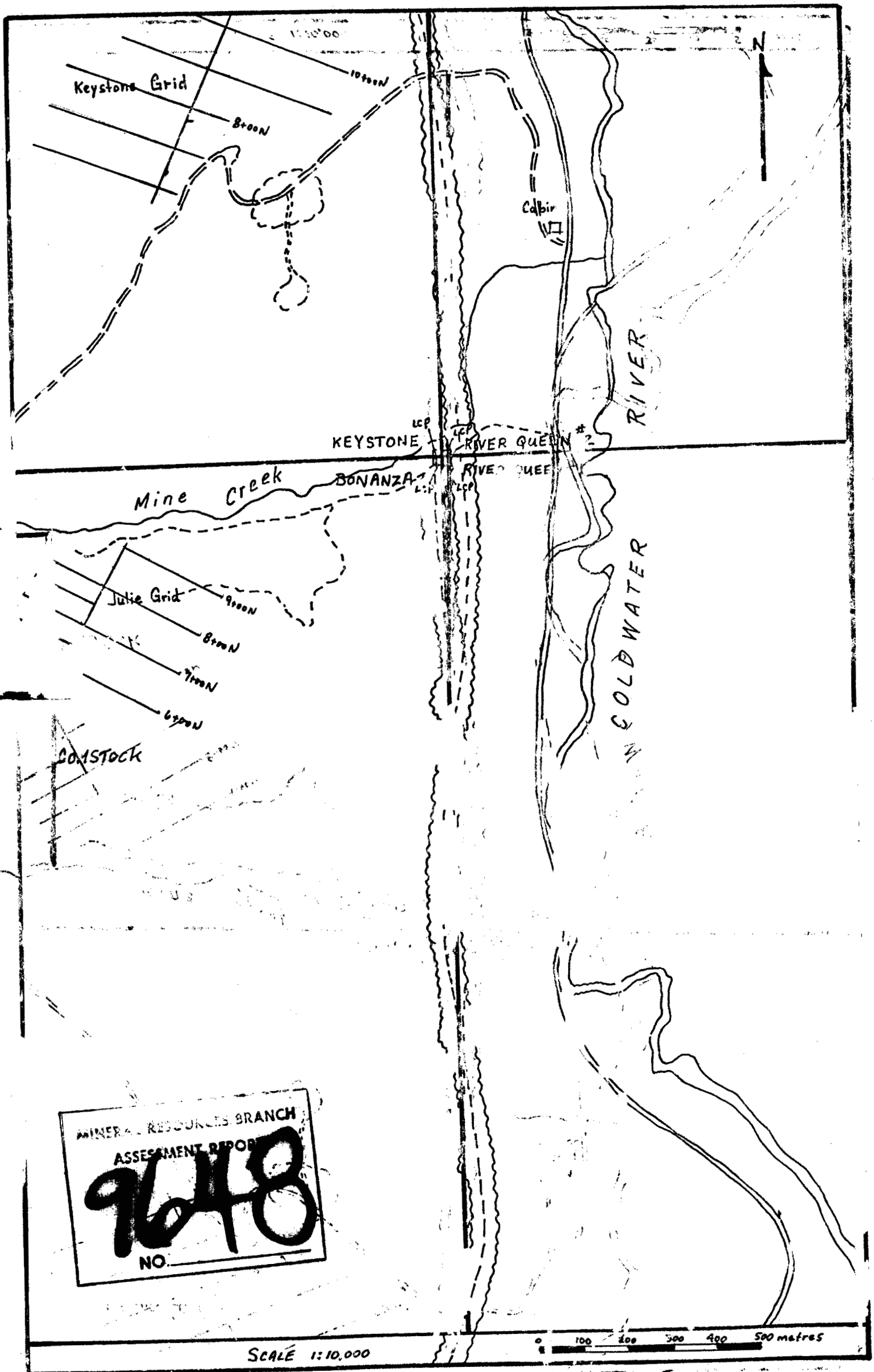
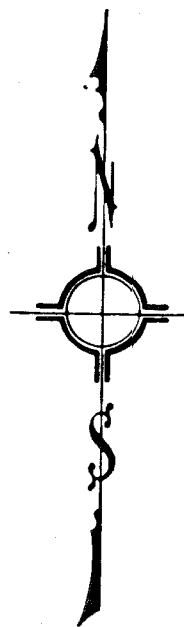
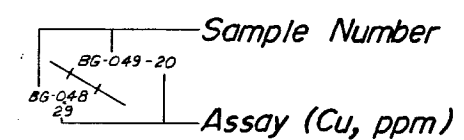


FIGURE 14 KEYSTONE and JULIE GRID LOCATION MAP



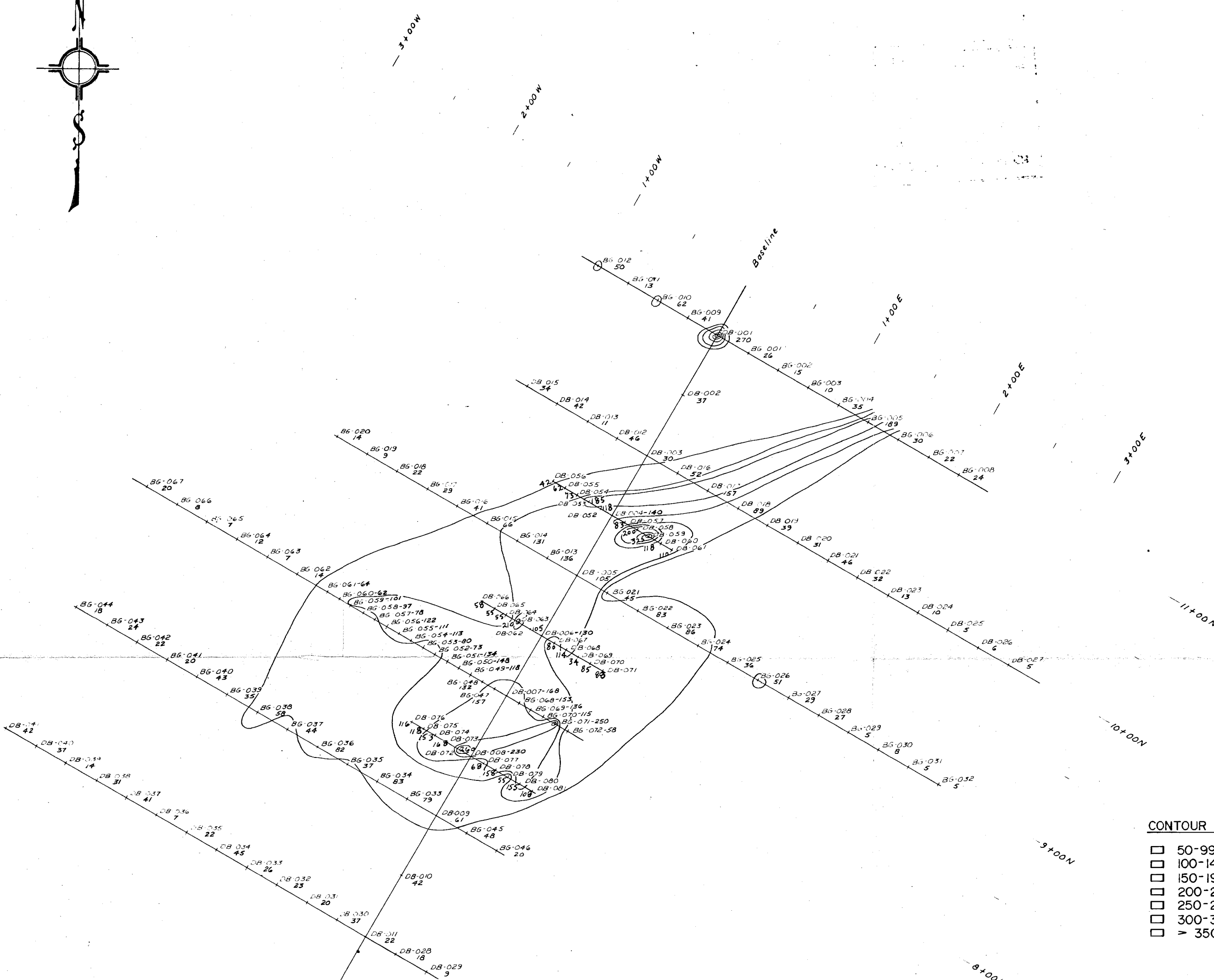
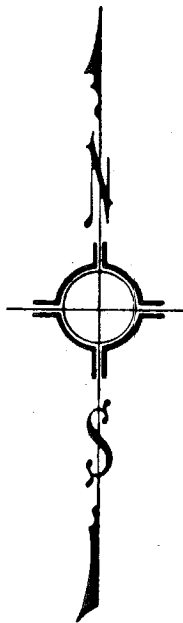
CONTOUR INTERVAL

- 25-34 ppm
- 35-44 ppm
- 45-54 ppm
- > 55 ppm



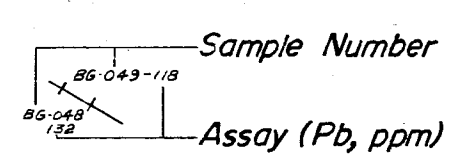
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
9648
NO.

WESTMIN RESOURCES LIMITED	
KEYSTONE PROJECT KEYSTONE (KYS) GRID 1981 COPPER SOIL GEOCHEMISTRY	
0 25 50 75 100 metres SCALE 1:2500	
DATE: JULY, 1981	Revised:
Original: B Grant	Drawn by: L.C.
FIGURE-3	



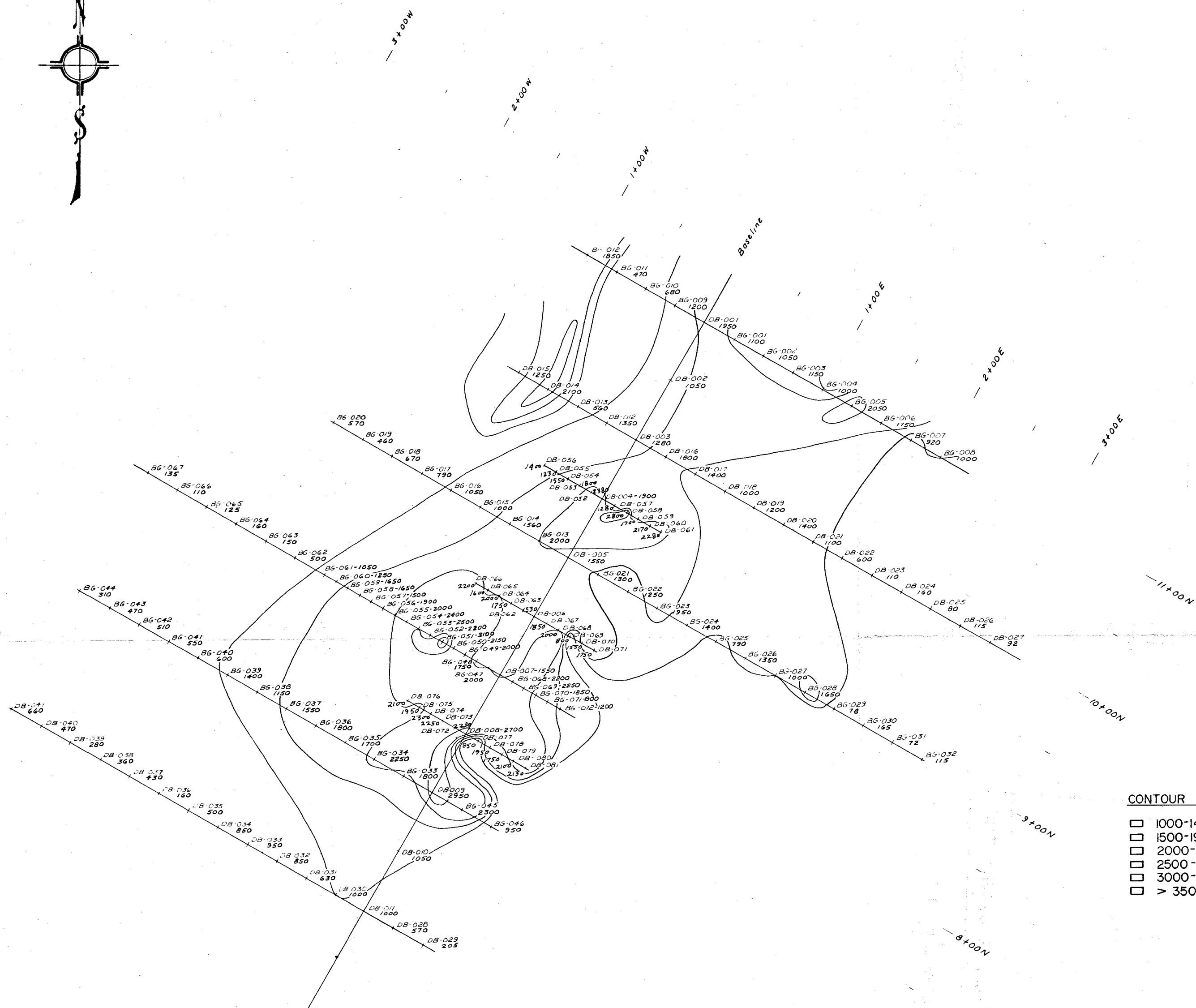
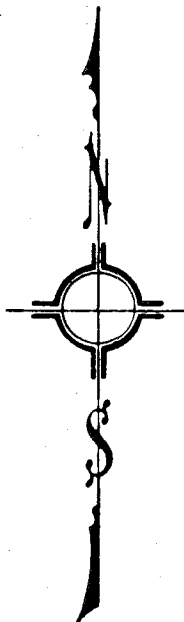
CONTOUR INTERVAL

- 50-99ppm
- 100-149ppm
- 150-199ppm
- 200-249ppm
- 250-299ppm
- 300-349ppm
- > 350ppm



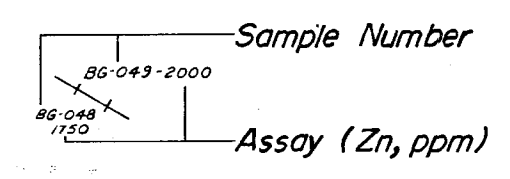
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ASSESSMENT REPORT
9648
NO.

WESTMIN RESOURCES LIMITED	
KEYSTONE PROJECT KEYSTONE (KYS) GRID 1981 LEAD SOIL GEOCHEMISTRY	
0 25 50 75 100 metres SCALE 1:2500	
DATE: JULY, 1981	Revised:
Original: B Grant Drawn by: L.C.	FIGURE- 4



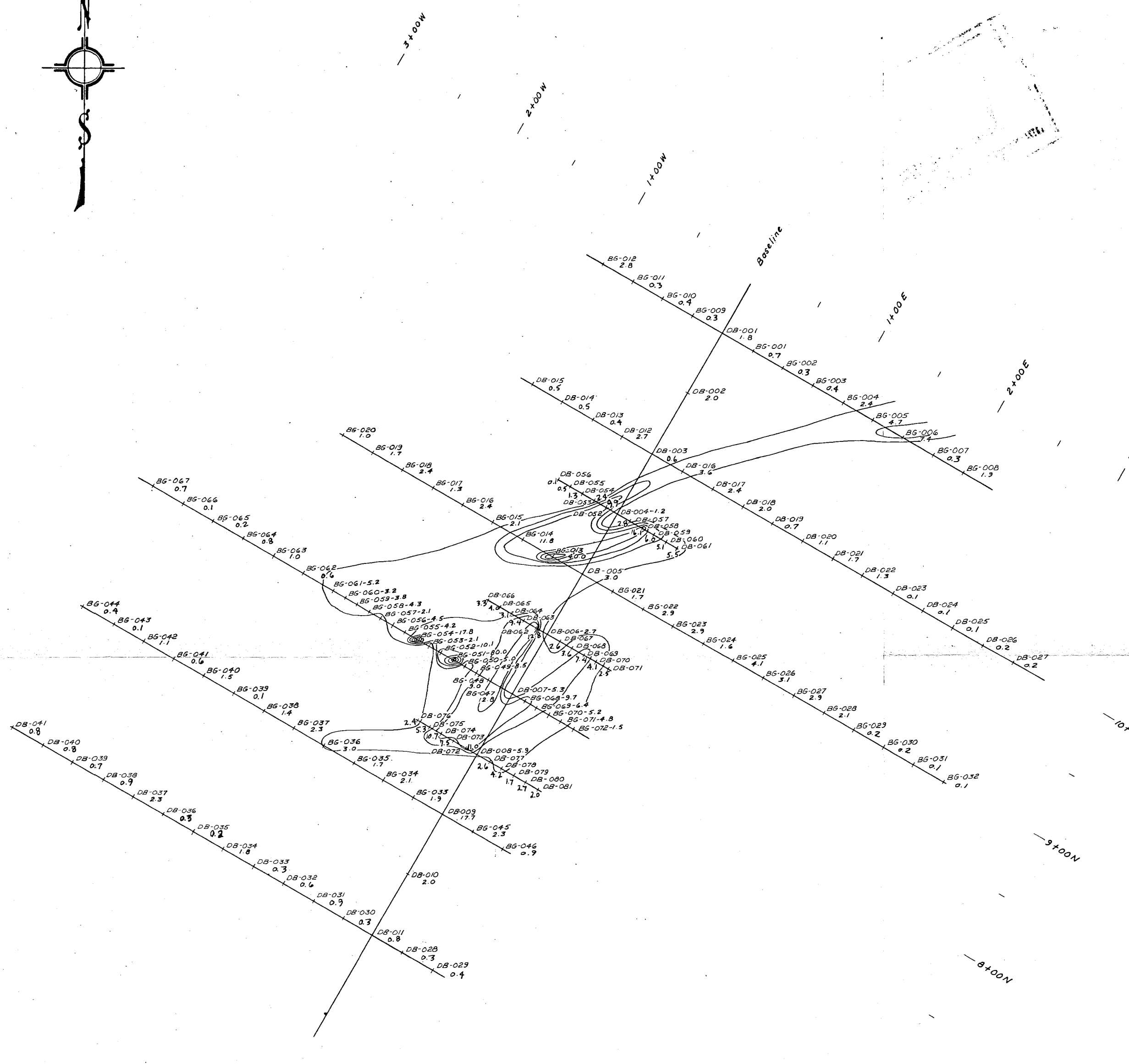
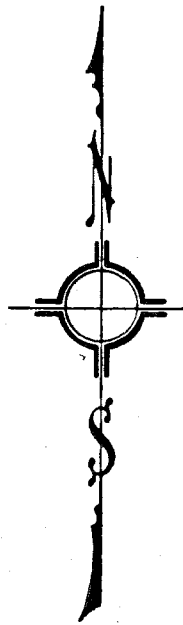
CONTOUR INTERVAL

- 1000-1499 ppm
- 1500-1999 ppm
- 2000-2499 ppm
- 2500-2999 ppm
- 3000-3499 ppm
- > 3500 ppm



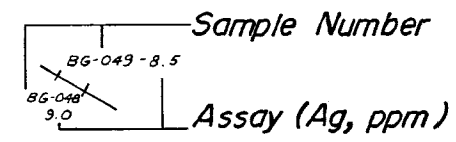
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ASSESSMENT REPORT
9648
 NO.

WESTMIN RESOURCES LIMITED			
KEYSTONE PROJECT KEYSTONE (KYS) GRID 1981 ZINC SOIL GEOCHEMISTRY			
0 25 50 75 100 metres SCALE 1: 2500			
DATE: JULY, 1981	Revised:	Original: B Grant Drawn by: L.C.	FIGURE-5



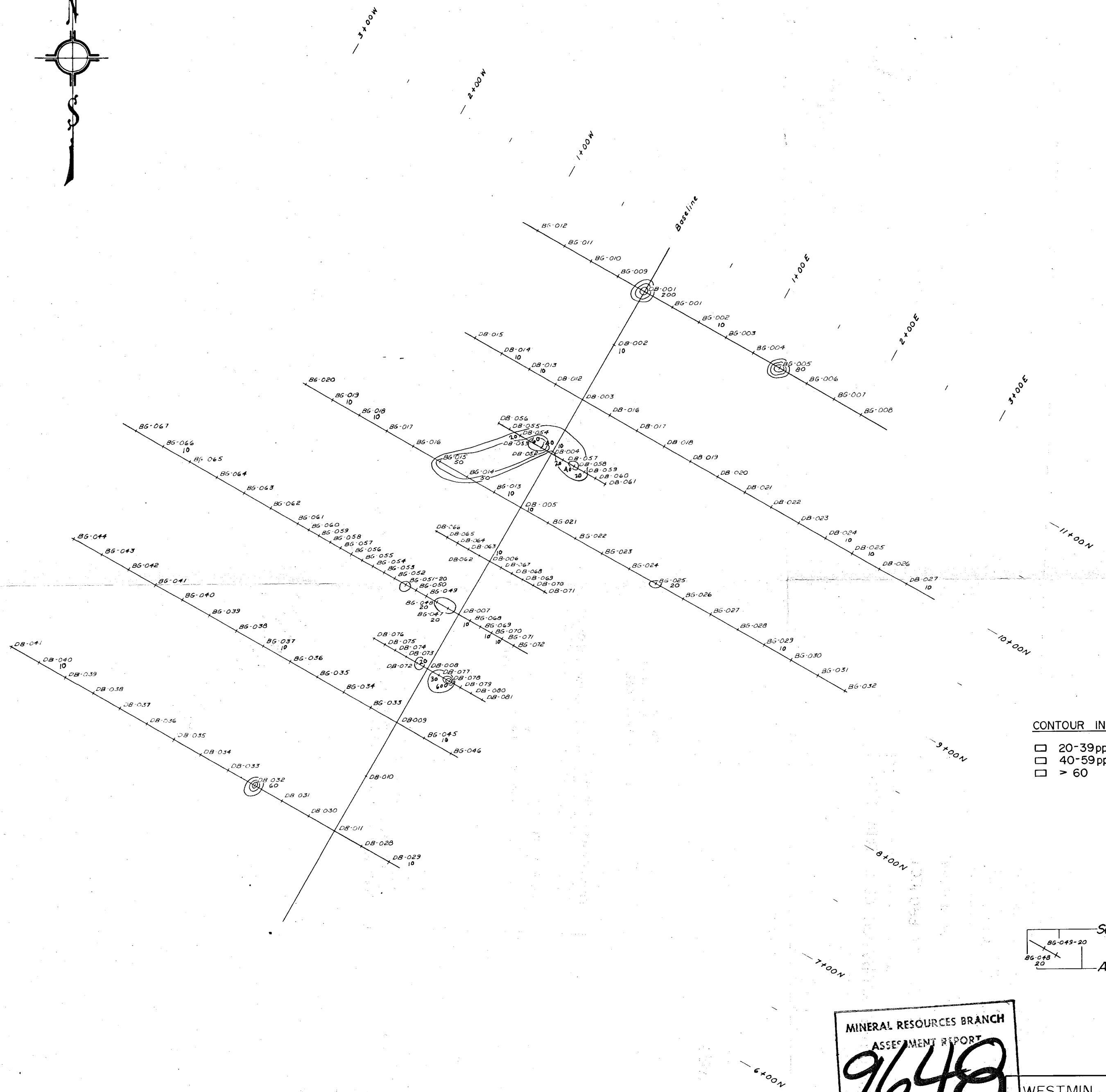
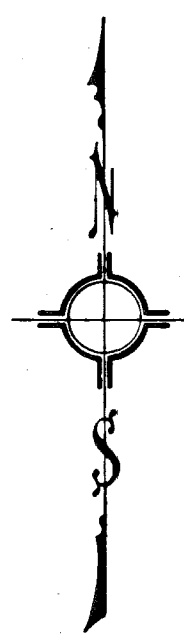
CONTOUR INTERVAL

- 3-5 ppm
- 6-8 ppm
- 9-11 ppm
- 12-14 ppm
- 15-17 ppm
- > 18ppm



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NO.

WESTMIN RESOURCES LIMITED	
KEYSTONE PROJECT KEYSTONE (KYS) GRID 1981 SILVER SOIL GEOCHEMISTRY	
0 25 50 75 100 metres SCALE 1:2500	
DATE: JULY, 1981	Revised: Original: B Grant Drawn by: L.C.
FIGURE-6	

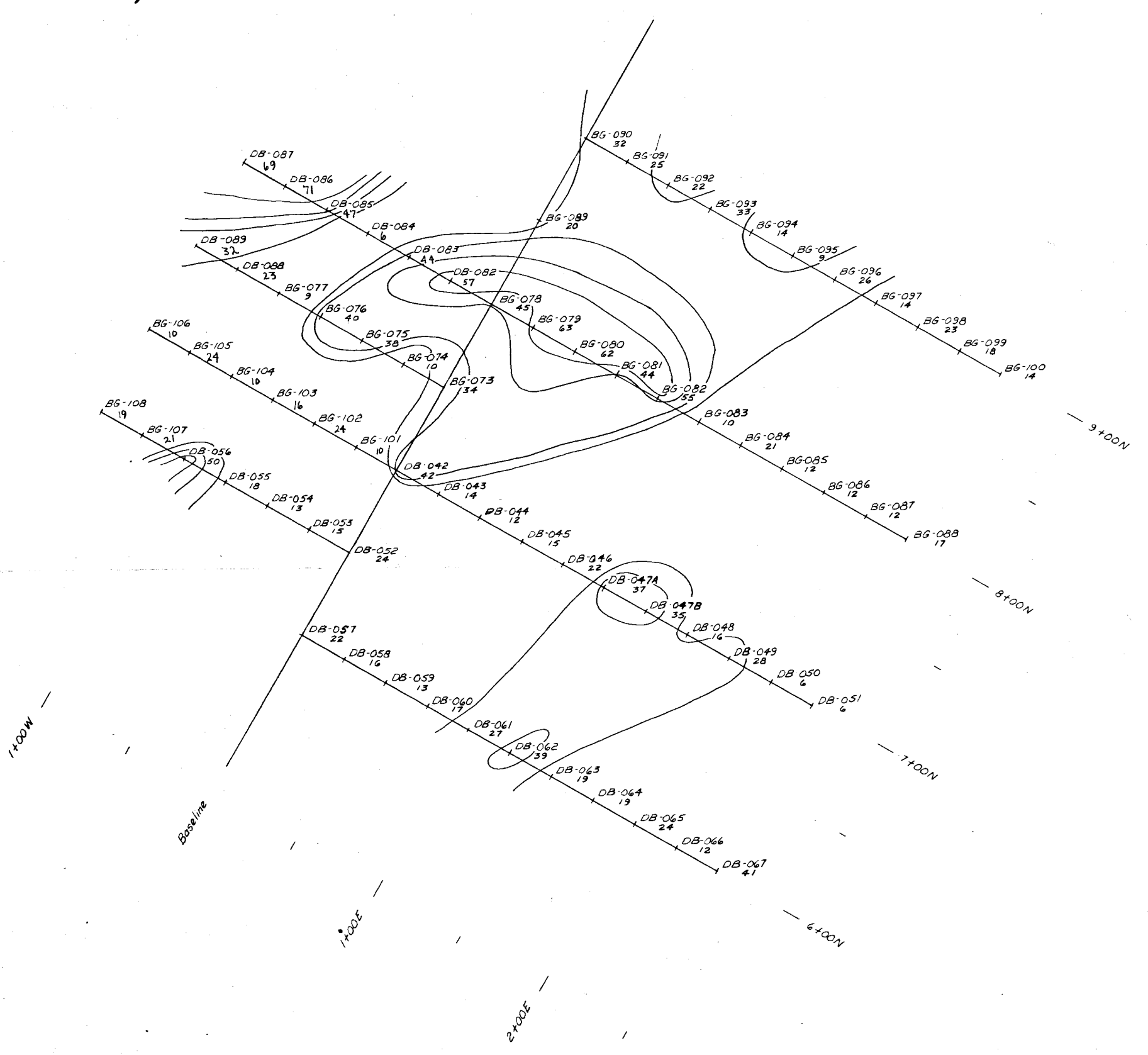
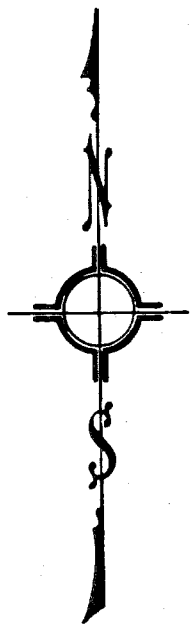


CONTOUR INTERVAL
 □ 20-39ppm
 □ 40-59ppm
 □ > 60

Sample Number
 Assay (Au, ppb)

MINERAL RESOURCES BRANCH
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9648
 NO.

WESTMIN RESOURCES LIMITED	
KEYSTONE PROJECT KEYSTONE (KYS) GRID 1981 GOLD SOIL GEOCHEMISTRY	
0 25 50 75 100 metres SCALE 1:2500	
DATE: JULY, 1981	Revised: Original B Grant Drawn by L.C.
FIGURE-7	



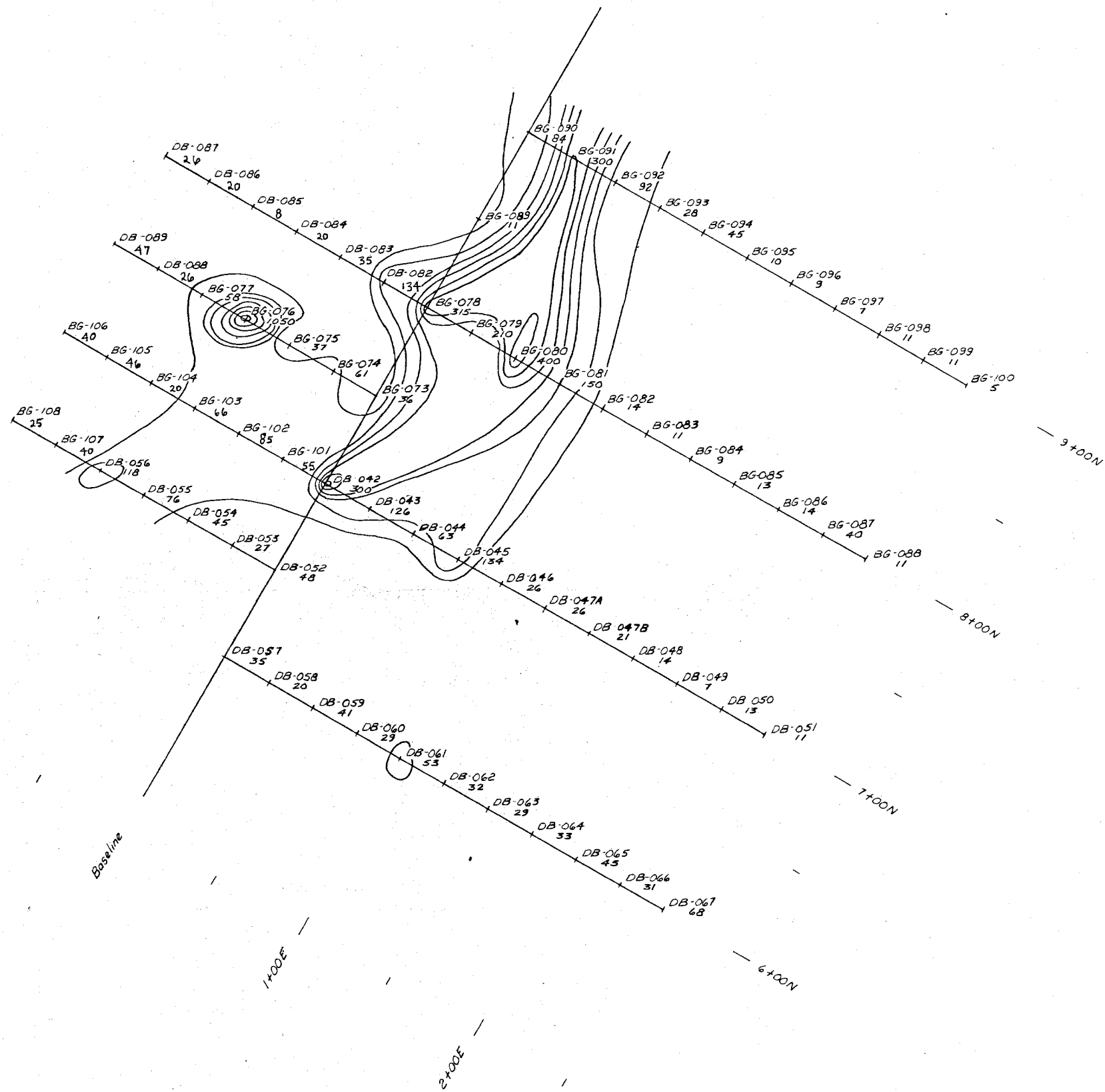
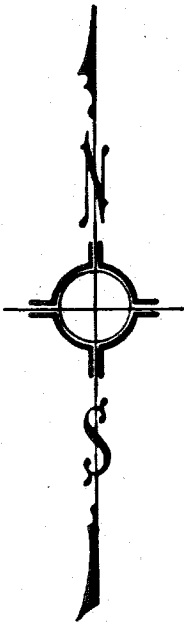
CONTOUR INTERVAL

- 25-34 ppm
- 35-44 ppm
- 45-54 ppm
- > 55 ppm

MINERAL RESEARCH
ASSAY NO. **9648**
NO.

Sample Number
BG-079
4.3
Assay (Cu, ppm)

WESTMIN RESOURCES LIMITED	
KEYSTONE PROJECT JULIE GRID 1981 COPPER SOIL GEOCHEMISTRY	
0 25 50 75 100 metres SCALE 1: 2500	
DATE: JULY, 1981	Revised:
Orig by: Drawn by: L.G.C.	FIGURE- 8



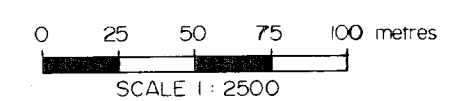
CONTOUR INTERVAL

- 50-99 ppm
- 100-149 ppm
- 150-199 ppm
- 200-249 ppm
- 250-299 ppm
- 300-349 ppm
- > 350 ppm

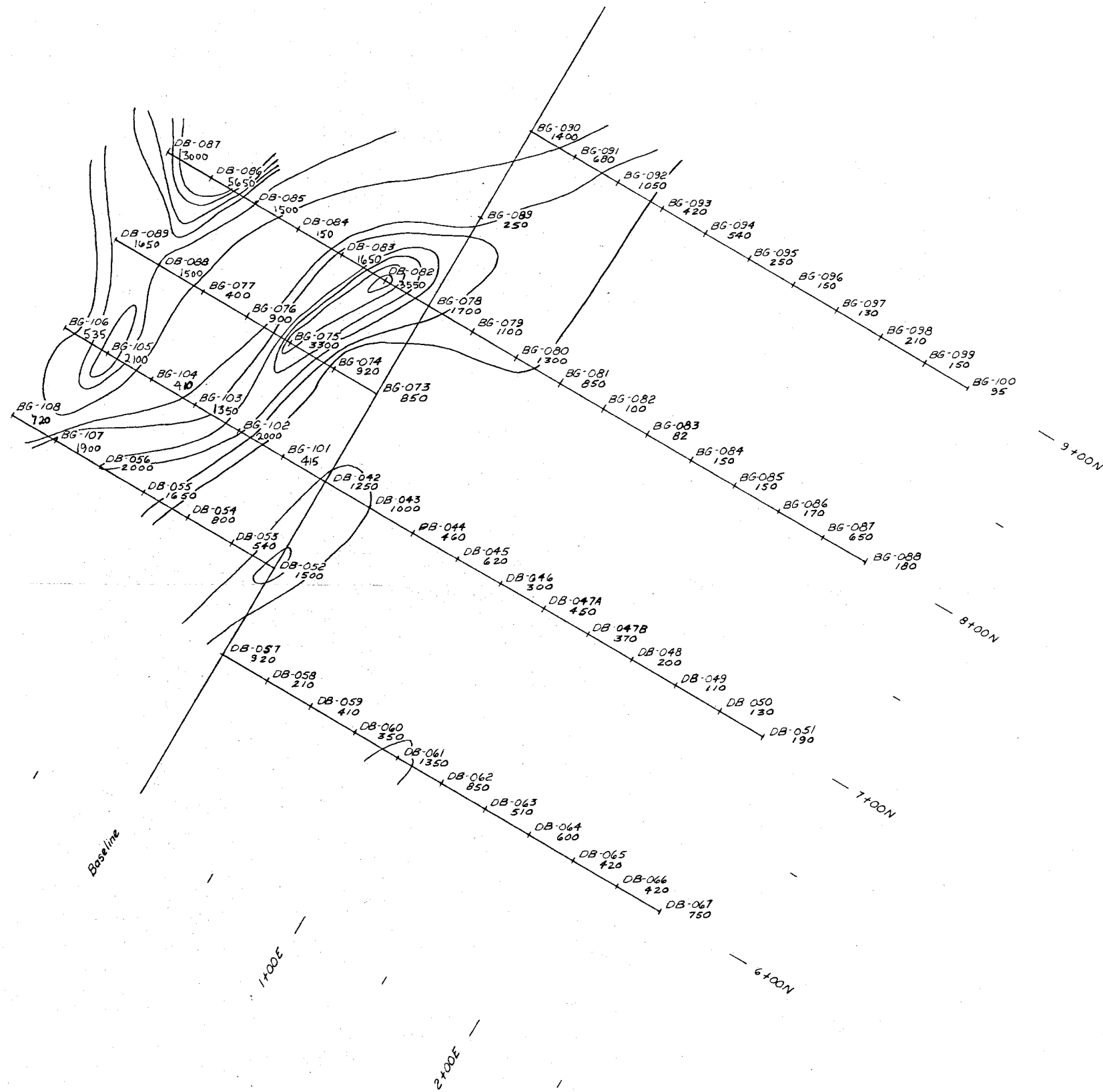
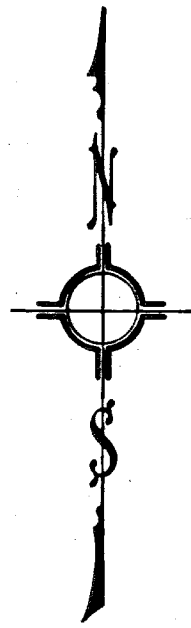
Sample Number
Assay (Pb, ppm)

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WESTMIN RESOURCES LIMITED
KEYSTONE PROJECT
JULIE GRID 1981
LEAD SOIL GEOCHEMISTRY



DATE: JULY, 1981 | Revised: | Orig by: LGC | Drawn by: LGC | **FIGURE- 9**



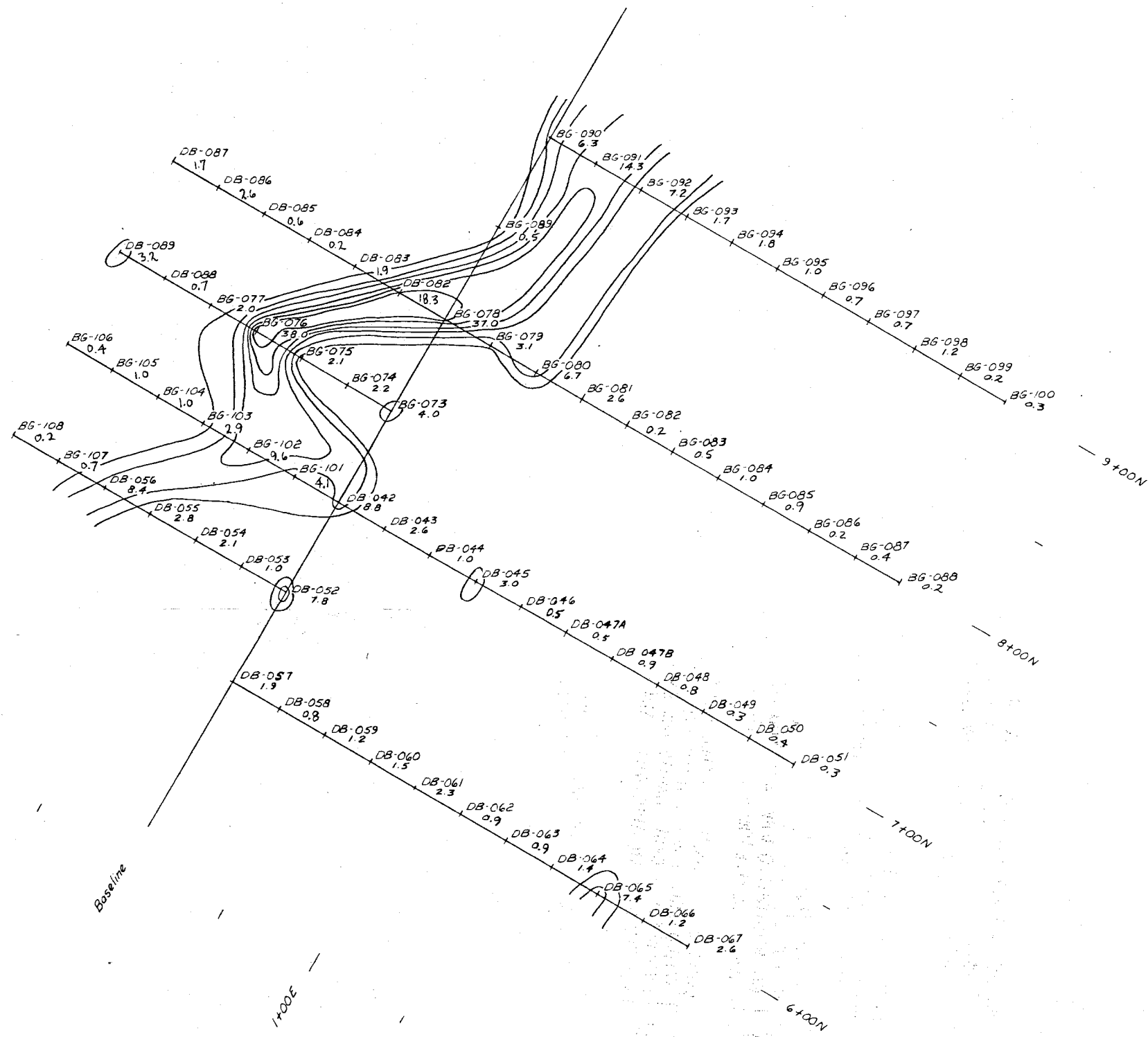
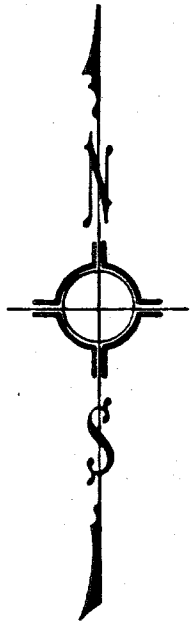
CONTOUR INTERVAL

- 1000-1499 ppm
- 1500-1999 ppm
- 2000-2499 ppm
- 2500-2999 ppm
- 3000-3499 ppm
- > 3500 ppm

Sample Number
Assay (Zn, ppm)

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NO.

WESTMIN RESOURCES LIMITED			
KEYSTONE PROJECT JULIE GRID 1981 ZINC SOIL GEOCHEMISTRY			
0 25 50 75 100 metres SCALE 1: 2500			
DATE: JULY, 1981	Revised:	Orig by: Drawn by: L.G.C.	FIGURE-10



CONTOUR INTERVAL

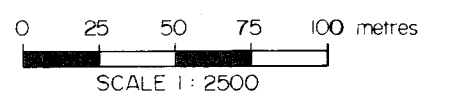
- 3-5 ppm
- 6-8 ppm
- 9-11 ppm
- 12-14 ppm
- 15-17 ppm
- > 18ppm

Sample Number
Assay (Ag, ppm)

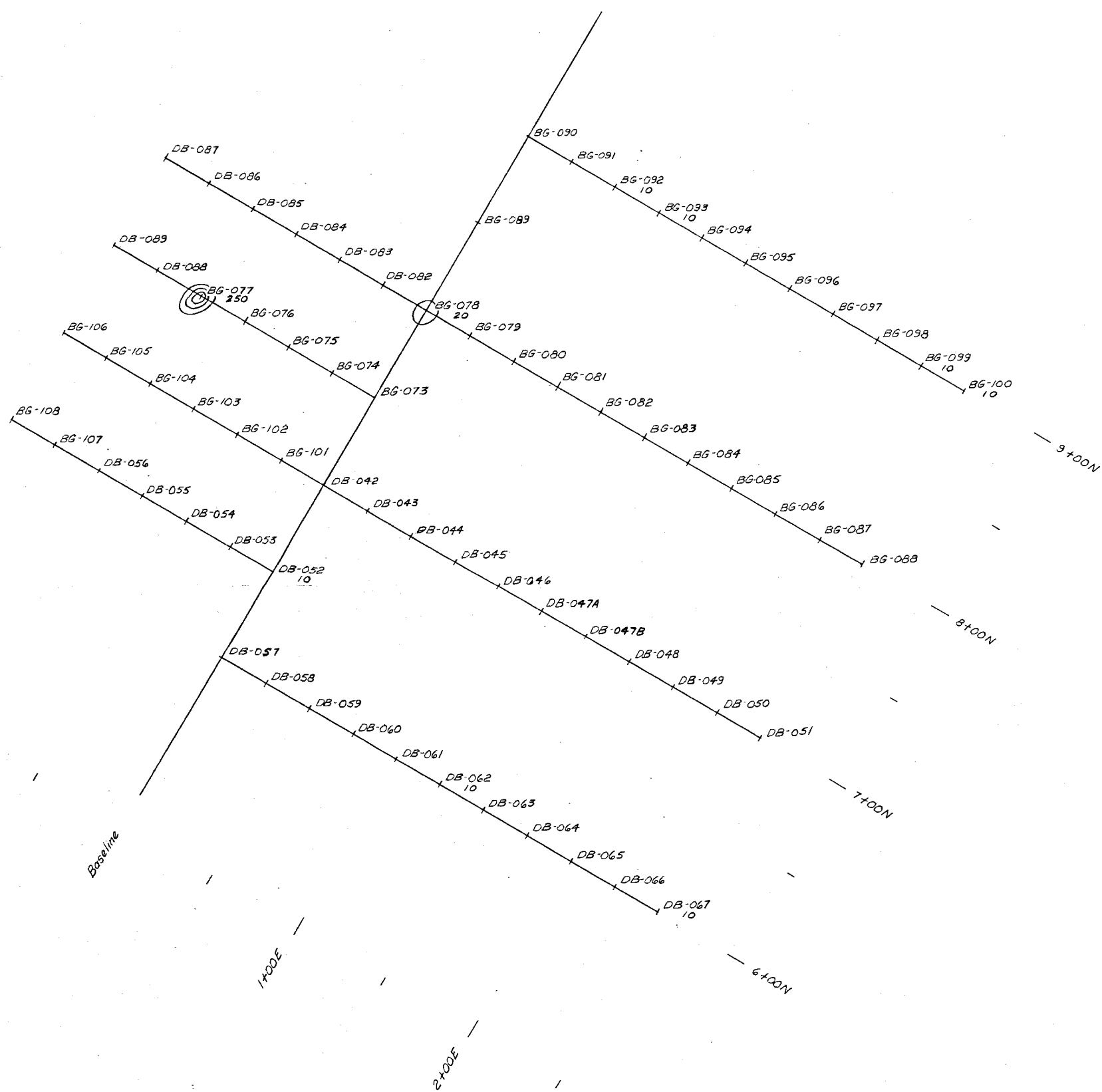
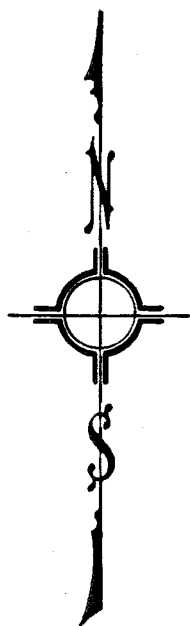
N.B. assays less than 1.0 are not shown

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ASSESSMENT REPORT
9648
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WESTMIN RESOURCES LIMITED
KEYSTONE PROJECT
JULIE GRID 1981
SILVER SOIL GEOCHEMISTRY



DATE: JULY, 1981 Revised: Orig by: Drawn by: L.G.C. **FIGURE- 11**



CONTOUR INTERVAL

- 20-39 ppm
- 40-59 ppm
- > 60

Sample Number
Assay (Au, ppb)

N.B. assays less than 10ppb are not shown.

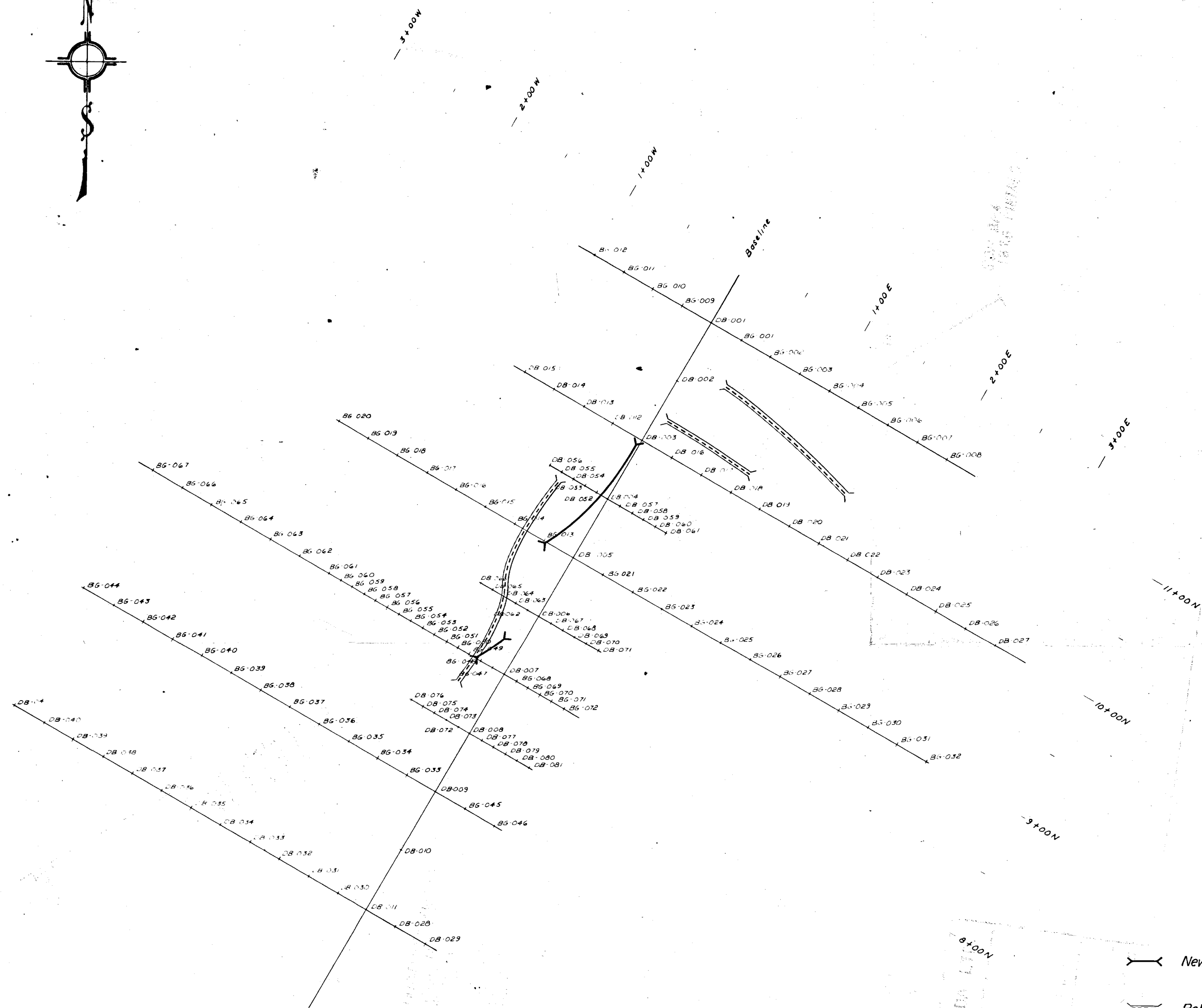
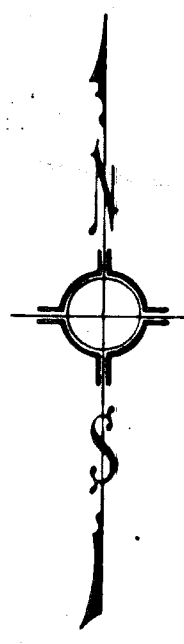
MINERAL RESOURCES BRANCH
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


KEYSTONE PROJECT
JULIE GRID • 1981
GOLD SOIL GEOCHEMISTRY

0 25 50 75 100 metres
SCALE 1 : 2500

DATE: JULY, 1981 Revised: Orig by: Drawn by: L.G.C. FIGURE-12



LEGEND

-  *New 1981 Trenches*
-  *Rehabilitated Trenches*
-  *Sample Locations & Numbers*

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KEYSTONE PROJECT KEYSTONE (KYS) GRID 1981 TRENCH MAP			
0 25 50 75 100 metres SCALE 1:2500			
DATE: JULY, 1981	Revised:	Original B Grant Drawn by L.C.	FIGURE-13