

ASSESSMENT REPORT  
GEOCHEMICAL SURVEY  
June 14 - July 14, 1982

BAR CLAIMS

N.T.S. 105C 8 and 9

Watson Lake Mining Division  
Wolf River Area, Yukon

Latitude 60°38'

Longitude 132°22'



OWNER: CHEVRON CANADA LIMITED

OPERATOR: CHEVRON STANDARD LIMITED

Authors: David Shaw

C. V. Dyson

October, 1982

091382

This report has been examined by  
the Geological Survey of Canada  
under Section 53 of the Minerals  
Act for a period of 30 days  
representing the total amount  
of \$ 7,200 -

*P. Watson*

Regional Manager, Exploration and  
Geological Services for Commissioner  
of Yukon Territory.

## TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION	1
LOCATION AND ACCESS	1
CLAIMS	1
GEOLOGY OF THE CLAIMS	1
GEOCHEMICAL SURVEY OF THE CLAIMS	2
GEOCHEMICAL RESULTS	2
CONCLUSIONS	2
RECOMMENDATIONS	3
COST STATEMENT	4 & 5
PERSONNEL	6

### APPENDIX:

- Maps:
1. Claim and Tag markers
  2. Geochemistry Ag and Ba
  3. Geochemistry Pb and Zn
  4. Location of Claims and Posts

## INTRODUCTION

### LOCATION AND ACCESS

The BAR claims are situated at latitude 60°38' and longitude 132°22', approximately 45 kilometers northeast of Teslin. Access to the property was by helicopter from a staging point on the Teslin airstrip.

### CLAIMS

The BAR claims (Fig. 1) were staked during a period commencing in 1976 and finishing in 1981. The claims are presently optioned by Chevron Canada from J. C. Stephen. The work was done by Chevron Standard Limited.

<u>CLAIMS</u>	<u>RECORD NUMBER</u>	<u>RECORD DATE</u>
BAR 1 to 8	YA26-33	June 24, 1976
BAR 9 to 20	YA913-924	September 3, 1976
BAR 21 to 22	YA54921, YA54922	June 20, 1980
BAR 23 to 36	YA67140-67153	September 1, 1981
BAR 39 to 46	YA67154-67161	September 1, 1981

### GEOLOGY OF THE CLAIMS

Information pertinent to the geology of the BAR claims is contained within the following Geological Survey of Canada Memoir (#326), authored by Robert Mulligan (1963):

The Geology of Teslin Map-Area, Yukon Territory

WOLF RIVER



0 1000 a.

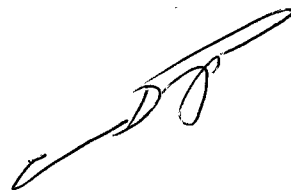
BAR 12	BAR 10	BAR 8	BAR 14	BAR 10	BAR 2	BAR 46	BAR 44
YA 016	YA 014	YA 30	YA 023	YA 024	YA 27	YA 67161	YA 67159
BAR 11	BAR 9	BAR 7	BAR 6	BAR 4	BAR 1	BAR 45	BAR 43
YA 015	YA 008	YA 22	YA 31	YA 20	YA 26	YA 67160	YA 67158
BAR 26	BAR 24	BAR 18	BAR 5	BAR 3	BAR 21	BAR 42	BAR 40
YA 67143	YA 67141	YA 022	YA 30	YA 28	YA 54021	YA 67157	YA 67155
BAR 25	BAR 23	BAR 16	BAR 16	BAR 14	BAR 22	BAR 41	BAR 39
YA 67142	YA 67140	YA 020	YA 020	BAR 13	YA 54022	YA 67156	YA 67154
	BAR 22	BAR 15	BAR 15	BAR 13	BAR 20	BAR 20	
	YA 018	YA 018	YA 018	YA 017	YA 017	BAR 20	
	BAR 13	BAR 13	BAR 13	BAR 13	BAR 13	YA 67149	YA 67148
	YA 017	YA 017	YA 017	YA 017	YA 017	BAR 20	BAR 20
	BAR 13	BAR 13	BAR 13	BAR 13	BAR 13	BAR 20	BAR 20
	YA 016	YA 016	YA 016	YA 016	YA 016	YA 67146	YA 67144
	BAR 13	BAR 13	BAR 13	BAR 13	BAR 13	BAR 20	BAR 20
	YA 015	YA 015	YA 015	YA 015	YA 015	BAR 20	BAR 20
	BAR 13	BAR 13	BAR 13	BAR 13	BAR 13	BAR 20	BAR 20
	YA 014	YA 014	YA 014	YA 014	YA 014	BAR 20	BAR 20
	BAR 13	BAR 13	BAR 13	BAR 13	BAR 13	BAR 20	BAR 20
	YA 013	YA 013	YA 013	YA 013	YA 013	BAR 20	BAR 20
	BAR 13	BAR 13	BAR 13	BAR 13	BAR 13	BAR 20	BAR 20
	YA 012	YA 012	YA 012	YA 012	YA 012	BAR 20	BAR 20
	BAR 13	BAR 13	BAR 13	BAR 13	BAR 13	BAR 20	BAR 20
	YA 011	YA 011	YA 011	YA 011	YA 011	BAR 20	BAR 20
	BAR 13	BAR 13	BAR 13	BAR 13	BAR 13	BAR 20	BAR 20
	YA 010	YA 010	YA 010	YA 010	YA 010	BAR 20	BAR 20
	BAR 13	BAR 13	BAR 13	BAR 13	BAR 13	BAR 20	BAR 20
	YA 009	YA 009	YA 009	YA 009	YA 009	BAR 20	BAR 20
	BAR 13	BAR 13	BAR 13	BAR 13	BAR 13	BAR 20	BAR 20
	YA 008	YA 008	YA 008	YA 008	YA 008	BAR 20	BAR 20
	BAR 13	BAR 13	BAR 13	BAR 13	BAR 13	BAR 20	BAR 20
	YA 007	YA 007	YA 007	YA 007	YA 007	BAR 20	BAR 20
	BAR 13	BAR 13	BAR 13	BAR 13	BAR 13	BAR 20	BAR 20
	YA 006	YA 006	YA 006	YA 006	YA 006	BAR 20	BAR 20
	BAR 13	BAR 13	BAR 13	BAR 13	BAR 13	BAR 20	BAR 20
	YA 005	YA 005	YA 005	YA 005	YA 005	BAR 20	BAR 20
	BAR 13	BAR 13	BAR 13	BAR 13	BAR 13	BAR 20	BAR 20
	YA 004	YA 004	YA 004	YA 004	YA 004	BAR 20	BAR 20
	BAR 13	BAR 13	BAR 13	BAR 13	BAR 13	BAR 20	BAR 20
	YA 003	YA 003	YA 003	YA 003	YA 003	BAR 20	BAR 20
	BAR 13	BAR 13	BAR 13	BAR 13	BAR 13	BAR 20	BAR 20
	YA 002	YA 002	YA 002	YA 002	YA 002	BAR 20	BAR 20
	BAR 13	BAR 13	BAR 13	BAR 13	BAR 13	BAR 20	BAR 20
	YA 001	YA 001	YA 001	YA 001	YA 001	BAR 20	BAR 20
	BAR 13	BAR 13	BAR 13	BAR 13	BAR 13	BAR 20	BAR 20

105c/9  
105c/8

Fig. 1

BAR CLAIMS

Claim numbers  
Tag numbers



### GEOCHEMICAL SURVEY OF THE CLAIMS

A total of 708 soil samples were collected at 50 metre intervals on a grid spacing of 100 metres. Grid lines were established by chain and compass and stations marked by flagging and marked pickets. Where possible soil samples were taken from the B-horizon at depths of 5 to 20 centimeters, otherwise talus fines or the C-horizon were collected. Soil samples were placed in kraft wet strength soil bags, air dried and shipped to Chemex Labs, North Vancouver, B. C. The samples were further dried and then sieved, with the -80 mesh portion being retained for analysis. These samples were analysed for Pb, Zn, Ag and Ba. For Pb, Ag and Zn a perchloric-nitric acid extraction process is used. Ba is extracted by using a perchloric-nitric-hydrofluoric acid.

### GEOCHEMICAL RESULTS

Statistical analysis of the results indicated that first-order anomalies of Zn contain greater than 1438.6 ppm. These occur in the south and central part of the claims and are separate to those associated with Pb, Ag and Ba.

First-order anomalies of Pb (>212.6 ppm) and the highest values of Ba and Ag occur in the central part of the claim block and are either superposed or adjacent to each other.

### CONCLUSIONS

The close proximity of the Pb, Ag and Ba anomalies indicates an association, the location of these corresponds with the location of baritic strata that

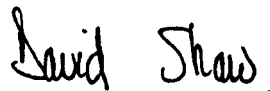
hosts argentiferous galena. The highest Pb anomaly is 370 ppm, that of Ag being 25 ppm.

Whilst sphalerite is also found in the baritic strata the Zn anomalies are separate to those of Pb, Ba and Ag. This is probably a result of the greater mobility of Zn, the anomalies reflecting groundwater movement.

#### RECOMMENDATIONS

In view of the limited extent of the baritic strata and the relatively low average values of Ag and Pb no further work is recommended at this time.

Respectfully submitted



D. SHAW  
Chevron Standard Limited



C. V. Dyson, P.Eng.  
Chevron Standard Limited

1982 EXPLORATION PROGRAMME

BAR CLAIMS - GROUP B

WATSON LAKE MINING DISTRICT, YUKON

PERIOD: June 14th - July 14th, 1982

COSTS:

1. Labour:

	<u>Position</u>	<u>Field Days</u>
D. Shaw	Geologist	½
Pat Henry	Supervisor	1
A. Hoff	Sampler	9
A. Grigoruk	Sampler	9
R. Daniel	Sampler	9
D. Cook	Sampler	9

AVERAGE COST PER FIELD MAN DAY = \$100 x 37½ = \$3,750.00

2. Analysis:

Soils (Ag, Pb, Zn, Ba) 341 @\$8.00 = 2,728.00

ASSESSMENT WORK TOTAL \$6,478.00

1982 EXPLORATION PROGRAMME

BAR CLAIMS - GROUP A

WATSON LAKE MINING DISTRICT, YUKON

PERIOD: June 14th to July 14th, 1982

COSTS:

1. Analysis:

Soils (Ag, Pb, Zn, Ba) 367 samples @\$8.00 = \$2,936.00

ASSESSMENT WORK TOTAL \$2,936.00

PERSONS EMPLOYED ON BAR PROJECT

Patrick Henry,  
7822 Langley,  
Burnaby, B. C.

David Shaw,  
307 - 1080 Pacific Street,  
Vancouver, B. C.  
V6E 4C2

Robert Daniel,  
50, Woodland Way,  
Piedmont, California 94611

Ronald Daniel,  
50, Woodland Way,  
Piedmont, California 94611

Anton Grigoruk,  
1524 Cory Street,  
White Rock, B. C.

Don Cooke,  
65 Deerfield Place,  
Delta, B. C.  
V4M 2X3

## STATEMENT OF QUALIFICATIONS

I, David Shaw, have worked as a geologist on a seasonal basis since graduation from the University of Sheffield (England) with a B.Sc. (Sp. Hons.) in 1973. A Ph.D degree was awarded by the Department of Geology at Carleton University, Ottawa, in 1980.

I am employed as a geologist by Chevron Standard Limited of Vancouver, B. C. Work on the BAR claims group was done under my supervision.

*David Shaw.*

DAVID SHAW

## STATEMENT OF QUALIFICATIONS

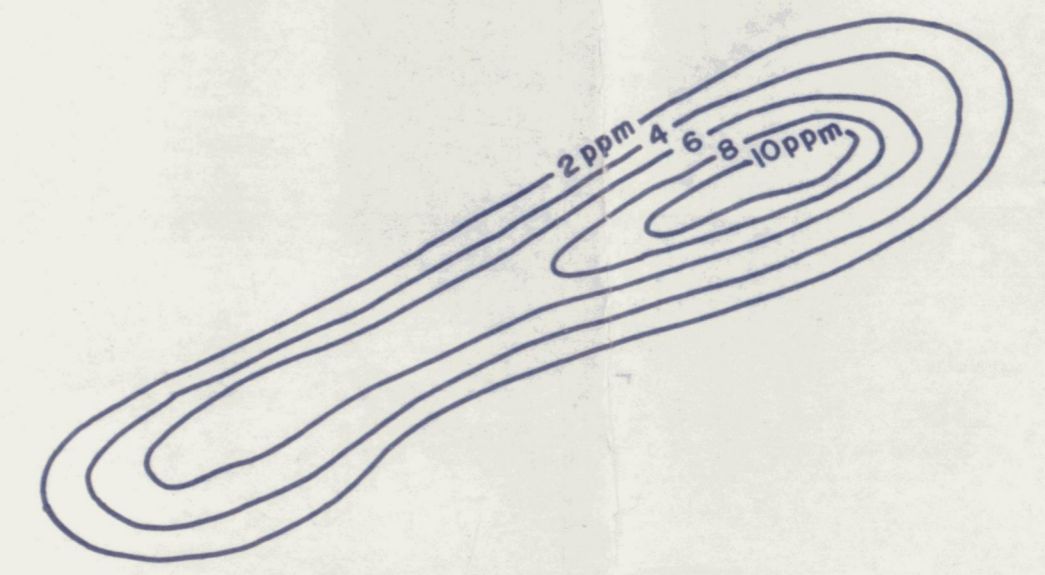
I, Colin Dyson, have worked as a geologist since graduation from Manchester University (England) with B.Sc (Hons.) Geology in 1963.

I am a member of the Association of Professional Engineers of British Columbia and a Fellow of the Geological Association of Canada.

I am currently employed as a geologist by Chevron Standard Limited of Vancouver, B. C. Field supervision and work on the BAR claims was performed under my direction.

A handwritten signature in black ink, appearing to read 'C. V. Dyson', with a stylized flourish at the end.

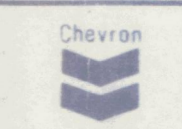
C. V. DYSON, P.Eng.

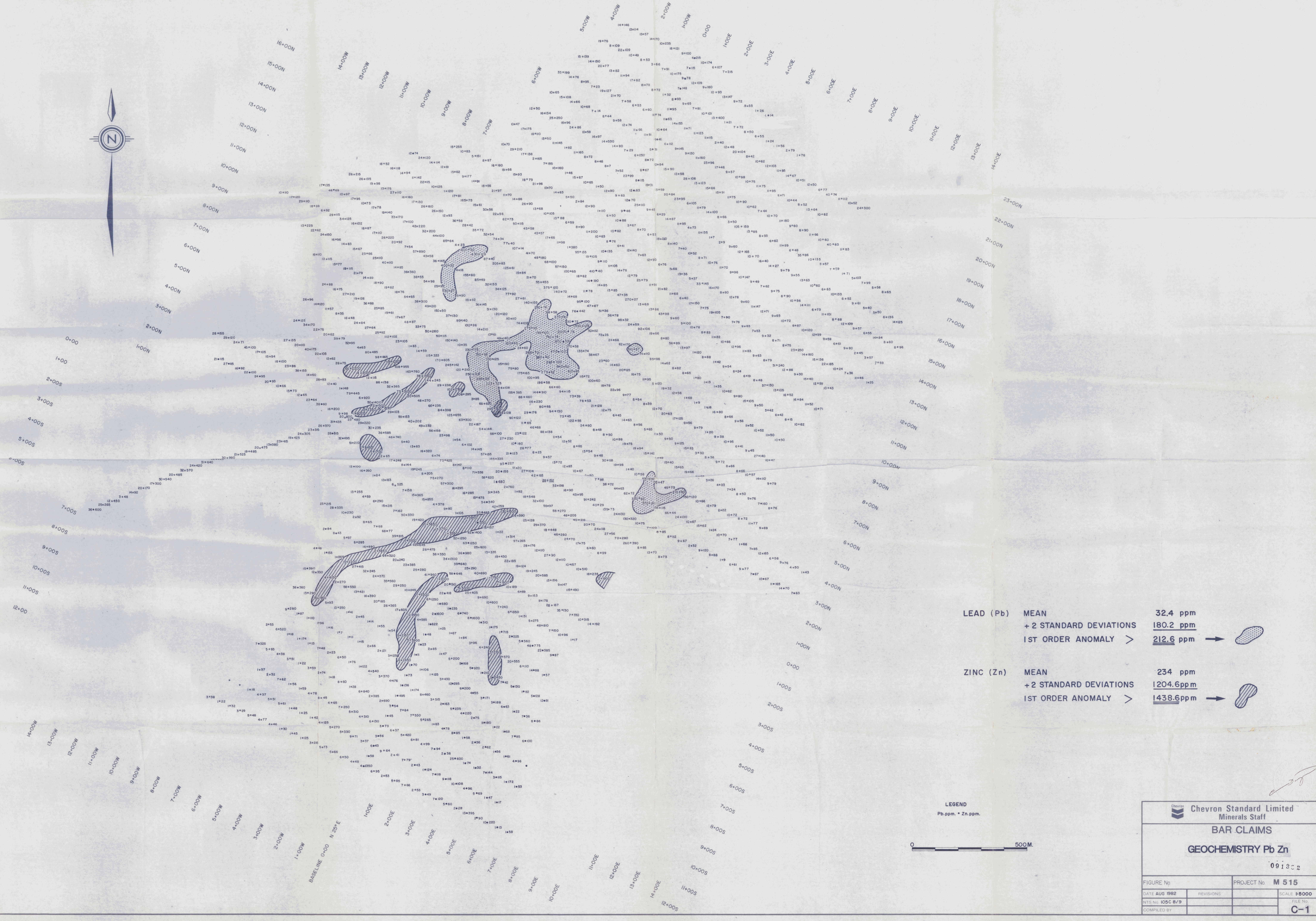


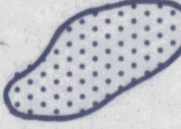
SILVER (Ag)


LEGEND  
Ag ppm • Ba ppm.



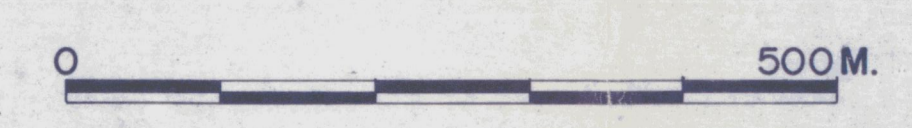
 Chevron Standard Limited Minerals Staff	
<b>BAR CLAIMS</b>	
<b>GEOCHEMISTRY Ag Ba</b>	
091382	
FIGURE No.	PROJECT No. <b>M 515</b>
DATE: AUG 1992	SCALE: 1:5000
REVISION:	
DATE: IOSC B/9	
COMPILED:	




**LEAD (Pb)** MEAN 32.4 ppm  
 + 2 STANDARD DEVIATIONS 180.2 ppm  
 1ST ORDER ANOMALY > 212.6 ppm → 

**ZINC (Zn)** MEAN 234 ppm  
 + 2 STANDARD DEVIATIONS 1204.6 ppm  
 1ST ORDER ANOMALY > 1438.6 ppm → 

LEGEND  
 Pb.ppm. + Zn.ppm.



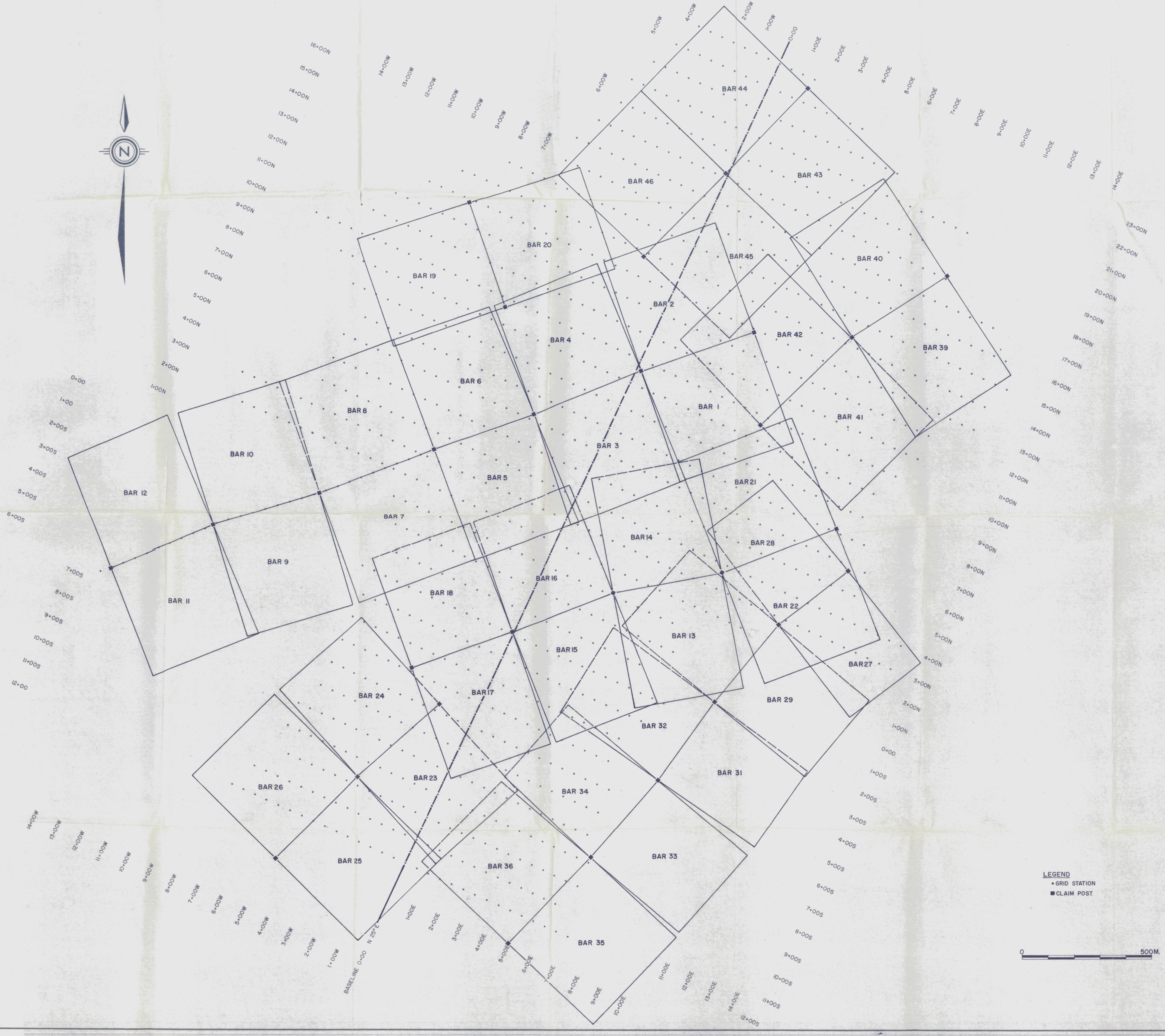
 **Chevron Standard Limited**  
 Minerals Staff

**BAR CLAIMS**

**GEOCHEMISTRY Pb Zn**

0913c2

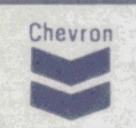
FIGURE No	PROJECT No	<b>M 515</b>
DATE <b>AUG 1982</b>	REVISIONS	SCALE <b>1:6000</b>
NTS No <b>105C 8/9</b>	FILE No	<b>C-1</b>
COMPILED BY		



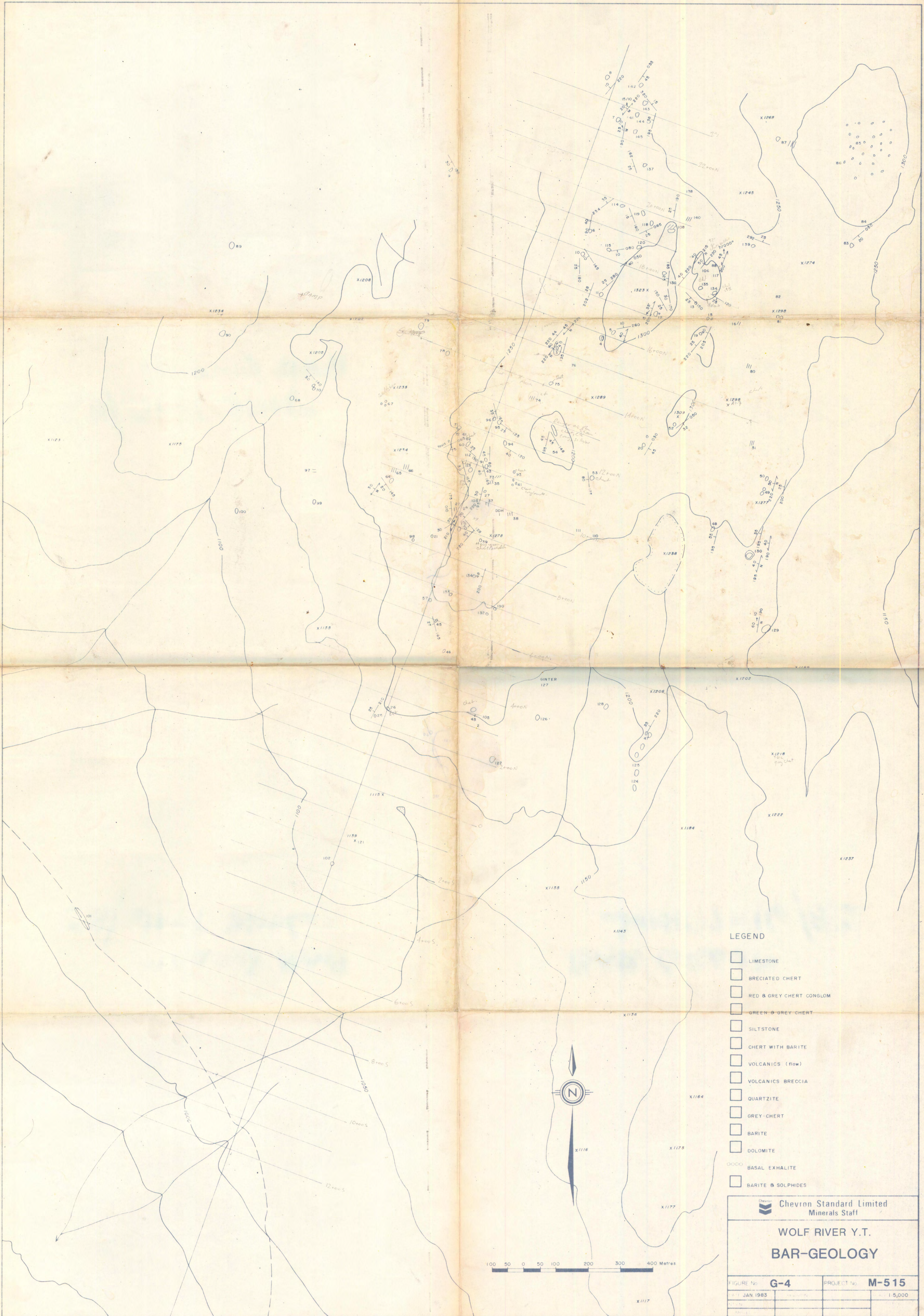
**NOTE:**  
LOCATION OF CLAIMS AND POSTS ACCORDING TO  
P. HENRY, JUNE 1982.

**LEGEND**  
• GRID STATION  
■ CLAIM POST



 <b>Chevron Standard Limited</b> Minerals Staff	
<b>BAR CLAIMS</b>	
<b>LOCATION OF CLAIMS AND POSTS</b>	
091382	
FIGURE No.	PROJECT No. <b>M 515</b>
DATE <b>AUG 1982</b>	REVISIONS
NTS No. <b>105C 8/9</b>	SCALE <b>1:5000</b>
COMPILED BY <b>JPH</b>	FILE No. <b>L-1</b>





**LEGEND**

- LIMESTONE
- BRECCIATED CHERT
- RED & GREY CHERT CONGLOM.
- GREEN & GREY CHERT
- SILTSTONE
- CHERT WITH BARITE
- VOLCANICS (flow)
- VOLCANICS BRECCIA
- QUARTZITE
- GREY-CHERT
- BARITE
- DOLOMITE
- BASAL EXHALITE
- BARITE & SOLPHIDES

 **Chevron Standard Limited**  
Minerals Staff

**WOLF RIVER Y.T.**  
**BAR-GEOLOGY**

FIGURE No.	<b>G-4</b>	PROJECT No.	<b>M-515</b>
DATE	JAN 1983	SCALE	1:5,000