

GEOCHEMICAL
REPORT ON A GEOLOGICAL SURVEY

OF THE

SOUP GROUP

OMINECA MINING DIVISION

N.T.S. 94D/8E

56°28'N 126°05'W

OWNER: MRS. ELIZABETH WHITE (et al)

OPERATOR: VITAL RESOURCES LTD.

T. RODGERS, P. ENG.

OCTOBER 1981

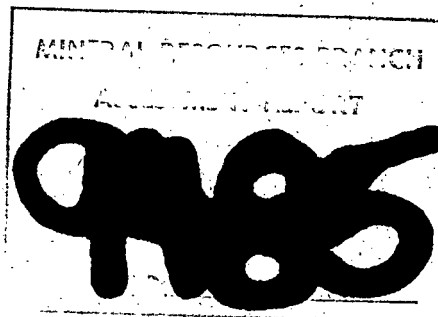


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INTRODUCTION

(i) The Soup Group consists of the Soup claims (1-10 inc). It was staken by Mssrs. White and McTaggart in 1964; the claims have been kept in good standing since that time. Various companies have examined the property from time to time. Vital Resources Ltd. optioned the property this year and caused to be performed the work described herein.

McTaggart, in his report dated 2nd August, 1965 noted that "on the Soup claims.....are magnetite rich skarn beds that conform to the stratification of Upper Triassic volcanic rocks. The beds range from 10 to 100 feet thick and at least one appears to have a strike length of at least 8000 feet In addition to iron the deposits evidently contain some copper and gold in unknown amounts. In their present undeveloped and intensely oxidized state the mineralized outcrops are unsuited to significant sampling."

Vital's work was intended to add to the knowledge of the geochemistry of the skarn rocks and to determine the more promising sections for further work.

(ii) The Soup claims are situated on the east side of Kliyul Creek some 15 km. south-south-east of Johanson Lake. The valley containing Kliyul Creek is steeply incised so that the surface on the property slopes at an average of 30 degrees to the south west. It is above tree-line and much is covered by talus.

The property can be reached via Aiken Lake or Johannsson Lake, both of which are along the road from Fort St. James. A helicopter is advisable for the last stage from the road.

(iii) One hundred and thirteen rock-chip samples were analysed and a further eighty two soil samples were collected and analysed.

A baseline of approximately three kilometres was laid out and picketed at 25m intervals.

The work was done on Soup 1, 3, 5, 7 and 9.

TECHNICAL DATA AND INTERPRETATION

(i) Tungsten content of skarn rocks.

B.P. Minerals Ltd. in an earlier program chip-sampled eleven lines which crossed the strike of the magnetite-skarn formation. These lines were spaced irregularly along the length of the claim group; their exact position being determined by accessibility and available outcrop. Representative fractions of the sampled material were held in storage by the assayer.

With B.P. Minerals' permission, Vital Resources requested that some of these samples be analysed for tungsten. This work was done by Vangeochem Lab Ltd., whose certificates form part of this report. The sample numbers are those allocated by B.P. Minerals and plotted on the plan accompanying their report (q.v.).

The analyses show that the magnetite skarn and its containing wall rocks are almost devoid of tungsten, only three samples containing even 10 p.p.m.

(ii) Orientation survey.

As a basis for future work and to determine the most promising areas along strike, a baseline was established approximately parallel to and 200m downhill from the skarn formation.

Where possible large (500 gm) samples of soil were taken from the B1 horizon at 25 m intervals. The

The samples were analysed for Copper, Cobalt, Silver and Gold by Min En Labs of North Vancouver using methods listed on their analytical report (p 8).

The sampling and line work was done under contract by Amex Exploration Services Ltd., of Kamloops, under the direction of the writer and took five man days. They dug holes to a depth of at least one foot using mattocks. Soil was taken from the B1 horizon and placed in metal free kraft bags.

The skarn is known to contain sporadic copper and gold. The analyses for these metals reflect this fact and most are anomalous compared with regional background values. However taking contiguous samples containing in excess of 100 p.p.b. Au or 1000 p.p.m. Cu as being of special significance, three sections of the skarn warrant detailed investigation.

Silver and cobalt analyses show that these metals are not present in significant amounts.

COSTS

Sample collection (including camp cost and road mobilisation)	\$ 988.68*
Rock chip analyses	423.75
Soil analyses	881.50
Helicopter access	1,001.20**
Report preparation	<u>200.00</u>
	<u>\$ 3,495.13</u>

* This work was done as part of a larger job based on the nearby Klisum Group.

** Includes pro-rated proportion of mobilisation costs to and from main camp to road access.

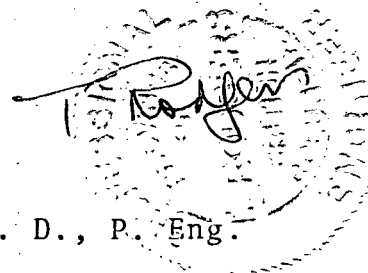
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15. X 87

CERTIFICATE OF QUALIFICATION

I, Terence Rodgers of Suite 1900 - 355 Burrard Street, Vancouver, B.C. V6C 2J3 certify that:

(i) I am a professional geologist and a practising Professional Engineer in the Province of British Columbia.

(ii) The report contained herein describes work done under my direction and/or supervision.



T. Rodgers, Ph. D., P. Eng.

Vancouver, B.C.

October 15th, 1981



VANGEOCHEM LAB LTD.
 1521 PEMBERTON AVE.,
 NORTH VANCOUVER, B.C.,
 CANADA V7P 2S3

TELEPHONE: 986-5211
 AREA CODE: 604

• Specialising in Trace Elements Analyses •

Certificate of Geochemical Analyses

-IN ACCOUNT WITH-

Vital Mines Ltd.
 1900 - 355 Burrard St
 Vancouver, B.C. V6C 2J3

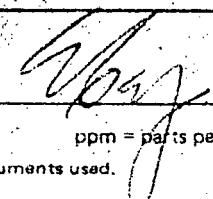
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 Report Completed: Feb. 3, 1981
 For Project:
 Analyst:
 Invoice# 6044 Job# 81 011

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94	5				
95	5				
96	5				
97	nd				
599	nd				
600	5				
01	5				
02	nd				
03	nd				
04	nd				
05	nd				
10	nd				
11	5				
12	nd				
13	5				
14	nd				
15	5				
16	5				
17	10				
18	5				
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57	nd				
230658	5				

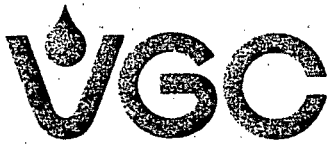
MASTER PRINTING LTD.

REMARKS:

Signed: 

% Mo x 1.6693 = % MoS₂ 1 Troy oz./ton = 34.28 ppm 1 ppm = 0.0001% nd = none detected ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



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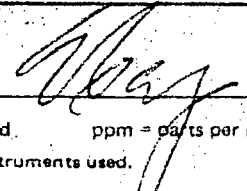
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 Analyst:

Attention:

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62	nd				
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06	nd				
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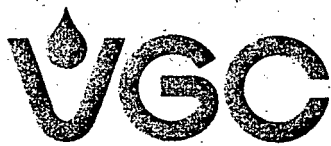
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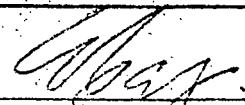
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 Report Completed:
 For Project:
 Analyst:

Attention:

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92	5				
93	nd				
94	nd				
95	nd				
96	nd				
97	nd				
98	nd				
99	nd				
100	nd				
270101	nd				

MASTER PRINTING LTD.

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MIN-EN Laboratories Ltd.

705 WEST 15th STREET,
NORTH VANCOUVER, B.C., CANADA V7M 1T2
TELEPHONE (604) 980-5814

ANALYTICAL REPORT

Project Date of report Aug. 12/81.

File No. 1-636 Date samples received Aug. 5/81.

Samples submitted by: T. Rogers

Company: Vital Mines

Report on: 82 soils Geochem samples

47

..... Assay samples

Copies sent to:

1. Vital Mines, Vancouver, B.C.

2.

3.

Samples: Sieved to mesh -80 soil Ground to mesh -100 assay

Prepared samples stored discarded

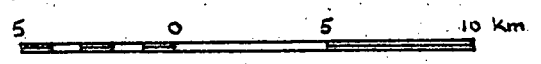
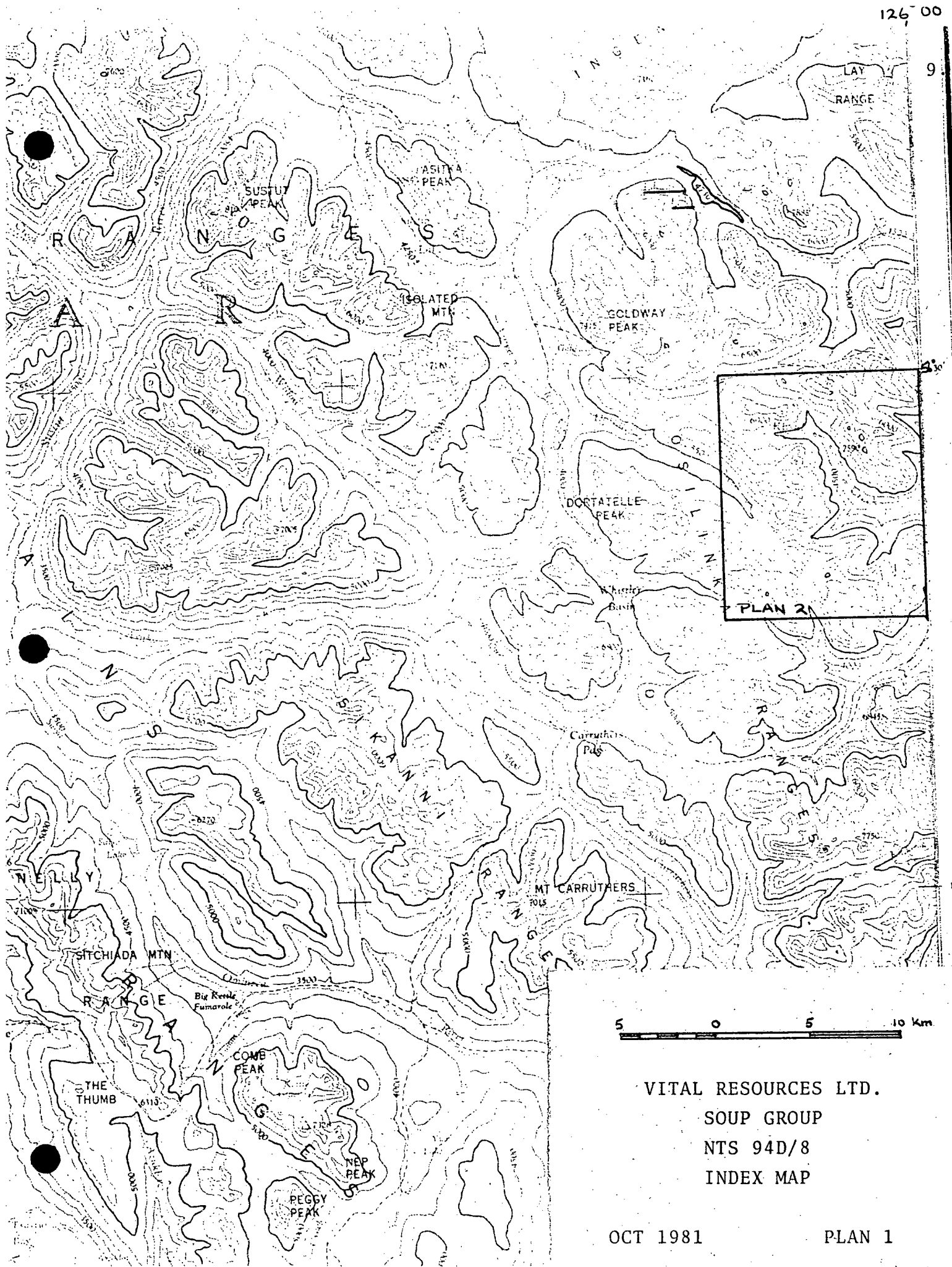
rejects stored discarded

Methods of analysis: Geochem, Cu, Ag-nitric, perchloric digestion. A.A.

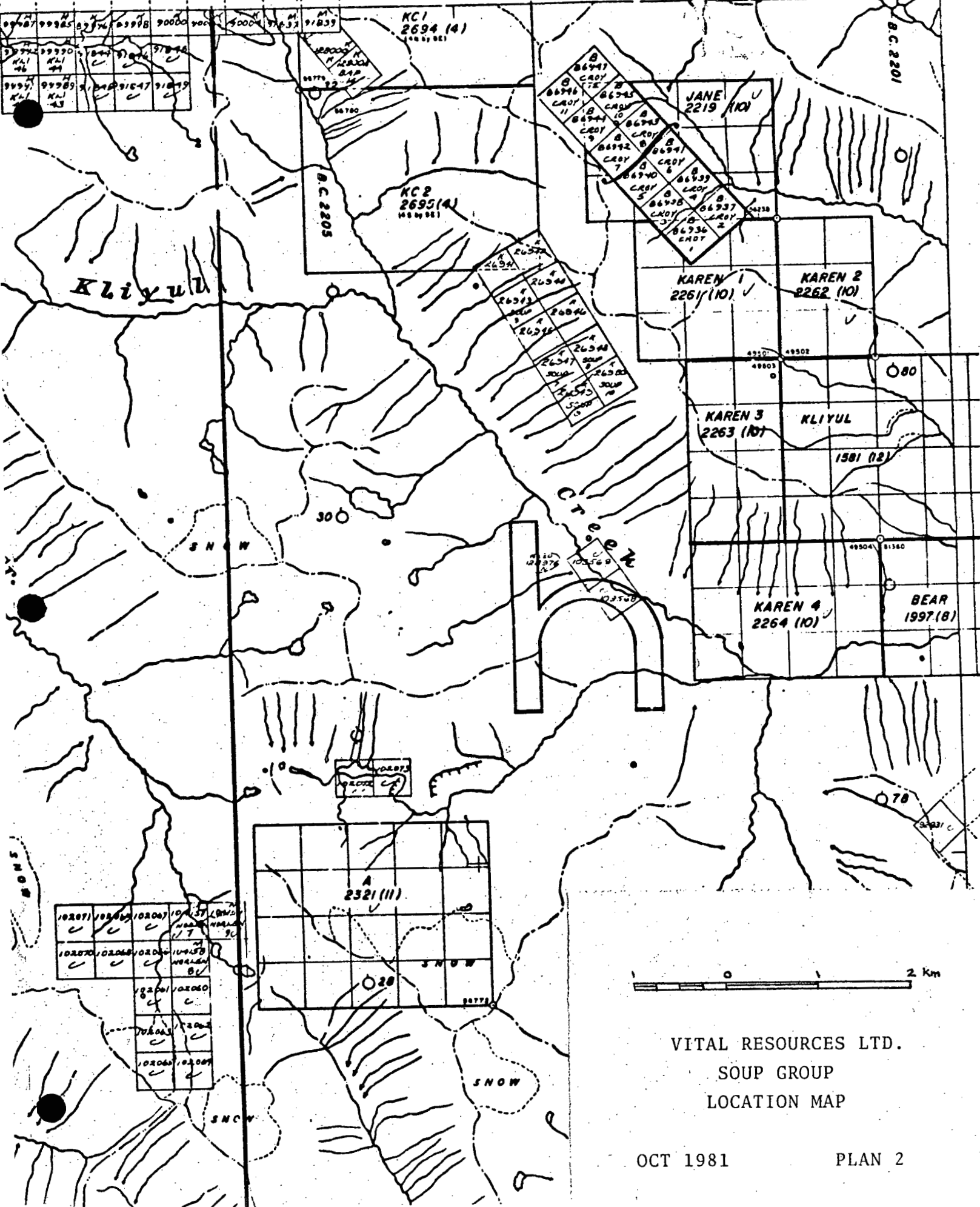
Au-Aqua Regia, A.A. Assays-Au-Fire Assay. Others-Acid

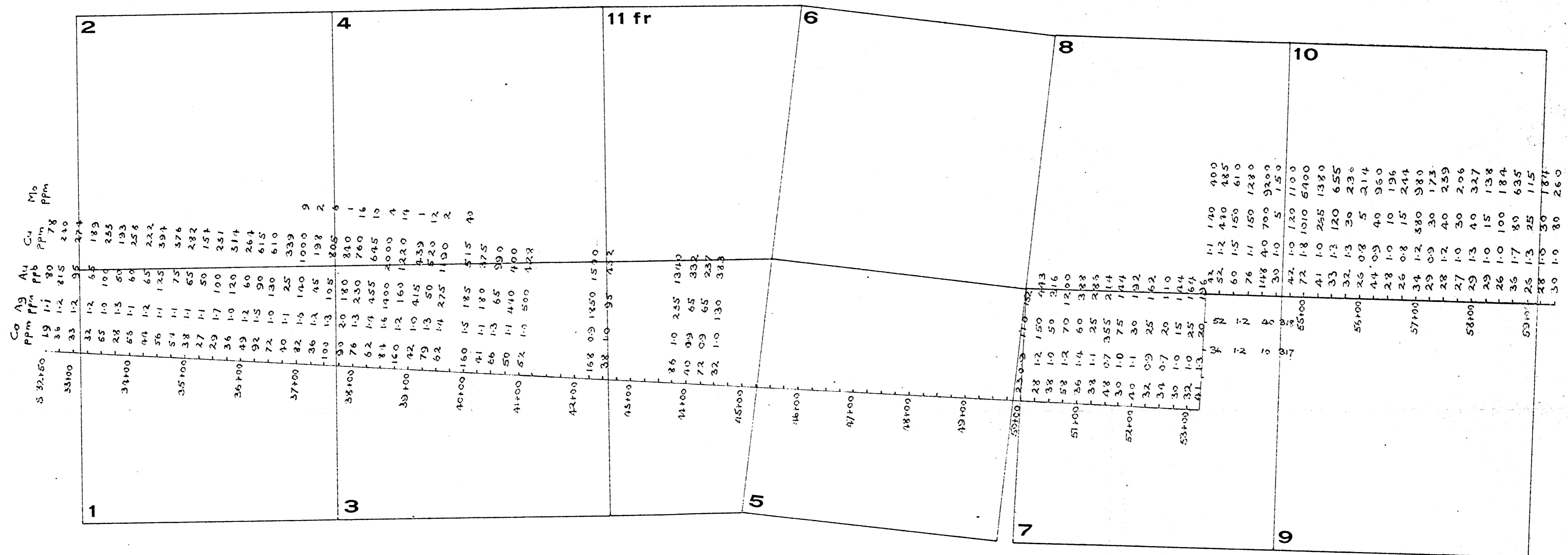
digestion-chemical analysis. WO₃-Fusion-Colorimetric & AA

Remarks:



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 INDEX MAP





9485



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Soup Group
Geochemistry

Oct. '81

Plan 3

T. R. ...
15.X.81