

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.,

MINING EXPLORATION DEPARTMENT

YEAR END REPORT

MOUNT DUNN, BRITISH COLUMBIA

N. T. S. 104 - B

H. M. VISAGIE

NOVEMBER, 1974

GREAT PLAINS DEVELOPMENT COMPANY OF CANADA, LTD.,

YEAR END REPORT MOUNT DUNN BRITISH COLUMBIA N.T.S. 106-B

November, 1974

# CONTENTS

			PAGE
Α.	SUMI	MARY	1
В.	INTR		
	3. 4. 5.	History Ownership Location and Access Economic Considerations Previous Exploration Objectives	2 2 2 3 3 3
C.	EXPL	CORATION AND DEVELOPMENT	
	1.	Prospecting	4
D.	GEOI	LOGY	
	2.	General Geology Mineralization Possibilities	4 4 5
Ε.	CONCLUSION		5
F.	RECO	OMMENDATIONS	5
APPE	NDIX	I Assay values – soil and rock	

1:1000 Claim block and sample location.

MAPS

# MOUNT DUNN



Picture of VV Claim Group in mid July, 1975



One of the VV Claim Group showing areas

#### A. SUMMARY

The Mount Dunn property consists of the VV claims and is located near Great Plains Snippaker property in the Iskut region of British Columbia. Work, to date has indicated potential for a porphyry copper and gold deposit. Thirteen of twenty-five soil samples yielded moderate to highly anomalous values in copper. Grab samples taken along the claim line were anomalous in silver, gold and copper. The gossanous area which the claim block covers extends in a linear trend either side of the claim block. Exploration potential exists on the claim block and surrounding area.

#### B. INTRODUCTION

# 1. History

In 1971, the Mount Dunn area along with other areas was evaluated by the Stikine Arch Reconnaissance Program under the direction of Norman Reynolds for Great Plains Development Company of Canada, Ltd. Anomalous copper geochemical values were found in soil samples taken from the Mount Dunn area. These results prompted Mr. Reynolds to recommend immediate staking of the anomalous area. However, the recommendations could not be carried out since the anomalies were already staked.

In 1974, a claim check in the Mount Dunn Area revealed that all claims held in the area had lapsed. During the summer of 1974, six VV claims were staked to cover the earlier defined anomalies. As the claims were being chained out a few soil and rock samples were collected.

# 2. Ownership

The property consists of six contiguous claims. The following is a schedule of the land holdings and pertinent information.

Claims	Acreage	Anniversary
	The second of th	<u>Date</u>
VV 1-6	300	July 25/75

Under the terms of the Stikine joint venture agreement Great Plains Development Company of Canada, Ltd., holds 57.5% interest in the property whereas Chevron Standard Limited retains 42.5%.

#### 3. Location and Access

The VV claim group is located on the northwestern flank of Mount Dunn between King and Fewright Creeks. The claims lie at the 4,000 foot elevation and about  $2\frac{1}{2}$  miles west of the Unuk River. The co-ordinates of the claim group are 130 degrees 40 minutes west longitude and 56 degrees 29 minutes north latitude.

The closest town and seaport is Stewart, British Columbia which is located forty-five air miles southeast of the property. An air strip is located about eight miles north of the property. Supplies can be flown to Snippaker air strip from either Stewart or Terrace. From the air strip supplies would have to be ferried to the property by helicopter, a distance of ten miles.

#### 4. Economic Considerations

The present area of interest is located in alpine country. Abnormal amounts of precipitation makes the area very inhospitable. Because of the cool summers, snow covers the property most of the year. In July of 1974, the property still had 70% snow cover.

No economic importance other than mineral potential can be attached to the VV claims or to the immediate area. A few large trees are found in the valleys of the surrounding creeks but they are of no consequence.

Two routes can be considered for road construction in the event of a mineral find. The road could go northeast for approximately fifty miles where it would connect with the Stewart-Cassier Highway about 100 miles from Stewart. The second route would be to construct a road eight miles southwest to the deep waters of Burroughs Bay on the Behm Canal, Alaska.

# 5. Previous Exploration

The region around Mount Dunn was examined for placer and lode deposits in the late 1800's and early 1900's. By 1930, a number of high grade vein deposits had been found within ten miles of the Dunn property.

In the mid 1960's the property was staked by prospectors. They optioned the property to Skyline Resources. Evidence of geochemical soil grid and a few hand trenches exist. The claims were dropped at the end of 1973, possibly due to the decreased exploration in British Columbia during that year because of political problems.

In 1971, Great Plains Development Company Ltd's., personnel ran a random soil sampling line across the property and discovered numerous anomalous values. In 1974, twenty-five soil samples and eleven outcrop samples were collected along the claim line and tested for mineral content.

#### 6. Objectives

The Dunn property was acquired because of its copper anomaly and its similarities to other properties held by Great Plains in the Iskut region. The geology, structure and mineralization would indicate the possible existence of a multimetal porphyry deposit.

The aim of next years program would be 1) to assess the potential of the claim block and the surrounding gossan by prospecting, and 2) to establish a grid on the claim block, 3) to collect samples for a geochemical study and 4) to geologically map the claim group.

#### C. EXPLORATION AND DEVELOPMENT

#### 1. Prospecting

The exploration time spent in 1974 on the Dunn property consisted of one day. In this day, six claims were staked. The claims were compassed in and measured out (using a topofil chain). Soil samples were collected every 200 feet along the claim line where snow cover permitted. Rock grab samples were also collected where ever claim lines crossed outcrops.

#### D. GEOLOGY

# 1. General Geology

Rock samples collected on the Dunn property are found to be well weathered, sometimes altered and silicified. The suite of rocks collected suggests that Jurassic volcanic rocks were intruded by a felsic pluton. The rock suite collected are generally volcanic or shallow intrusive in nature. Tuffs, various volcanic flows, silicified volcanics, diorite porphyries and felsic rocks typify the suite.

#### 2. Mineralization

Pyrite is pervasive across the property with localized areas of up to 5% sulphides. Pyrite is usually found in veins or on fractures although substantial dissemination also occurs. Chalcopyrite and malachite represent the most common copper minerals found. This copper mineralization is usually associated with quartz veins.

Indications of the anomalous copper values are found in the soils. The geochemical value of copper in the soils ranged from 40 to 3,680 ppm. Thirteen of the samples were greater than 400 ppm.

The rock grab samples were assayed for copper gold and silver values. Copper values ranged from .01 to .32% copper. Gold values ranged from Trace to .04 ounces per ton gold. Silver values ranged from Trace to .32 ounces per ton silver. It is apparent that the rocks in the area contain low grade anomalous values in all three metals.

#### 3. Possibilities

The large gossan, soil anomalies and mineral occurrences indicate the existence of a hydrothermally altered and mineralized area in the Mount Dunn region. The size and extent of the altered area has not been determined. It could represent a small build-up of mineralizing fluids along a fault or it could be large enough to host a deposit of economic size. At present more information is needed to evaluate the prospect properly.

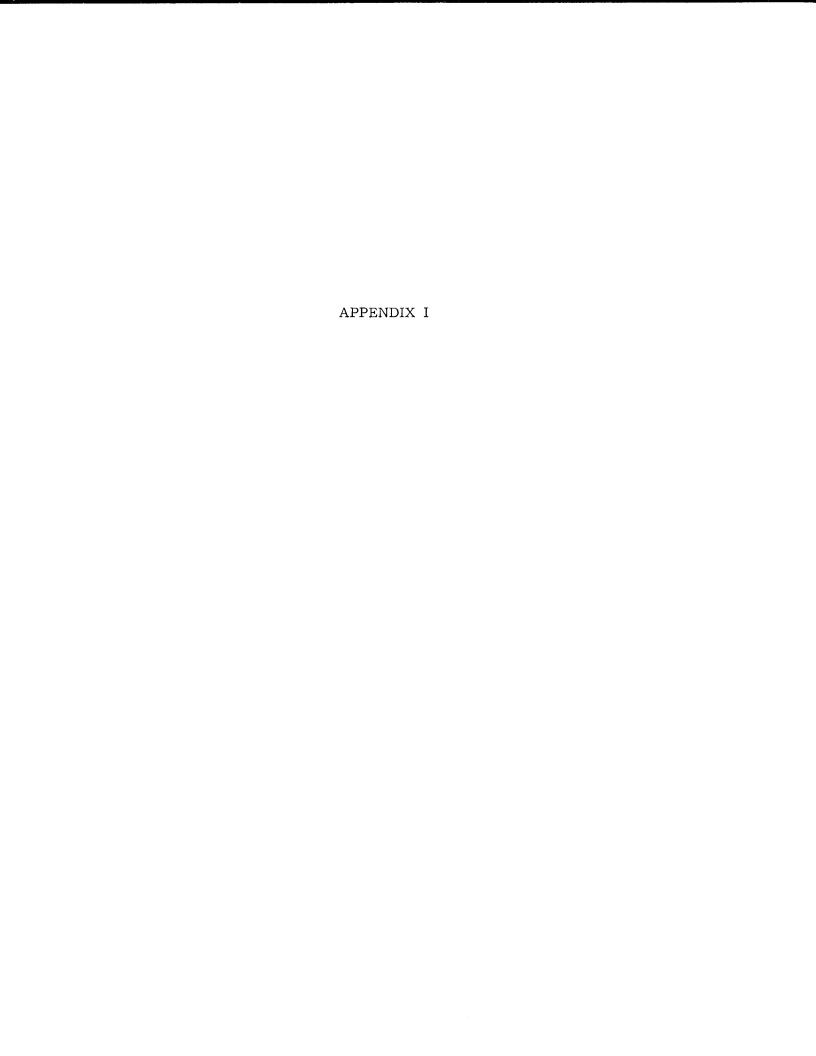
### E. CONCLUSIONS

- 1. The VV claim group was staked to cover the central portion of a large gossanous area.
- 2. Soil and rock samples indicate the existence of a large area of anomalous mineralization. Copper, gold and silver appear to be present in significant quantities.
- 3. The mineralogy, geology, alteration and physical setting all suggest that the area has a potential for hosting a large tonnage of low grade copper-gold porphyry type mineralization.

# F. RECOMMENDATIONS

It is recommended that:

- 1. The mineral claims and surrounding area be prospected and all mineral showings be noted. Any additional areas of interest arising from the prospecting should be staked.
- 2. A grid be surveyed on the property and soil sampling be undertaken at 200 foot intervals on the grid.
- 3. A detailed geological survey be done on the immediate claim block.



Togreat PLAINS DEVELOPMENT CO.	OF CANADA.,
Mining Division,	<i>[4///-</i> \
6th Floor, 736-8th Ave. S.W.	
CALGARY, Alta.	[III.
ATTN: Vern Johanson	rificate

File No.	8455
Date	July 22, 1974
Samples	Geo-chems

# LORING LABORATORIES LTD.

Gu	
99	•
1,660	
675	
3,680	
1,380	
<b>75</b>	
1,240	
1,200	
124	
	÷
I hereby Certify that the above results are to	HOSE
_	99 1,660 675 3,680 1,380 75 40 790 860 1,240 560 830 186 338 62 1,200 600 51 51 455 485 150 166 117 124   J. Hereby Certify that the above results are that assays made by me upon the herein described samples.

Rejects Retained one month.
Pulps Retained one month
unless specific arrangements
made in advance.

I Lmc Lace

Licensed Assayer of British Columbia

To: GREAT PLAINS DEVELOPMENT Co.	OF	C.
Mining Division,		
6th Floor, 736-8th Ave. S.W.,		
CALGARY, Alta.		
ATTN: Vern Johanson		



File No.	-8450
Date	July 20, 1974
Samples	Chip

Sectificate of ASSAY

# LORING LABORATORIES LTD.

-1-

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Cu	% MoS2
<b>VV</b> - HMV -#1	.010	.06	.11	
<b>VV-HMV-#</b> 2	.010	.08	.07	.004
<b>VV</b> - HMV -#3	.010	.07	.11	-
VV - HMV -#4	Trace	Trace	.04	-
<b>VV - HMV -#</b> 5	Trace	.04	.02	-
<b>VV-</b> HMV-#6	.040	Trace	•01	•
<b>VV</b> -HMV -#7	.010	.06	.01	•002
<b>VV</b> -HMV -#8	.010	Trace	•32	•
<b>VV</b> -HMV -#9	Trace	.04	.03	-
<b>VV-HMV-</b> #10	.010	.06	.07	-
<b>VV</b> -HMV-#11	.020	•32	.04	-

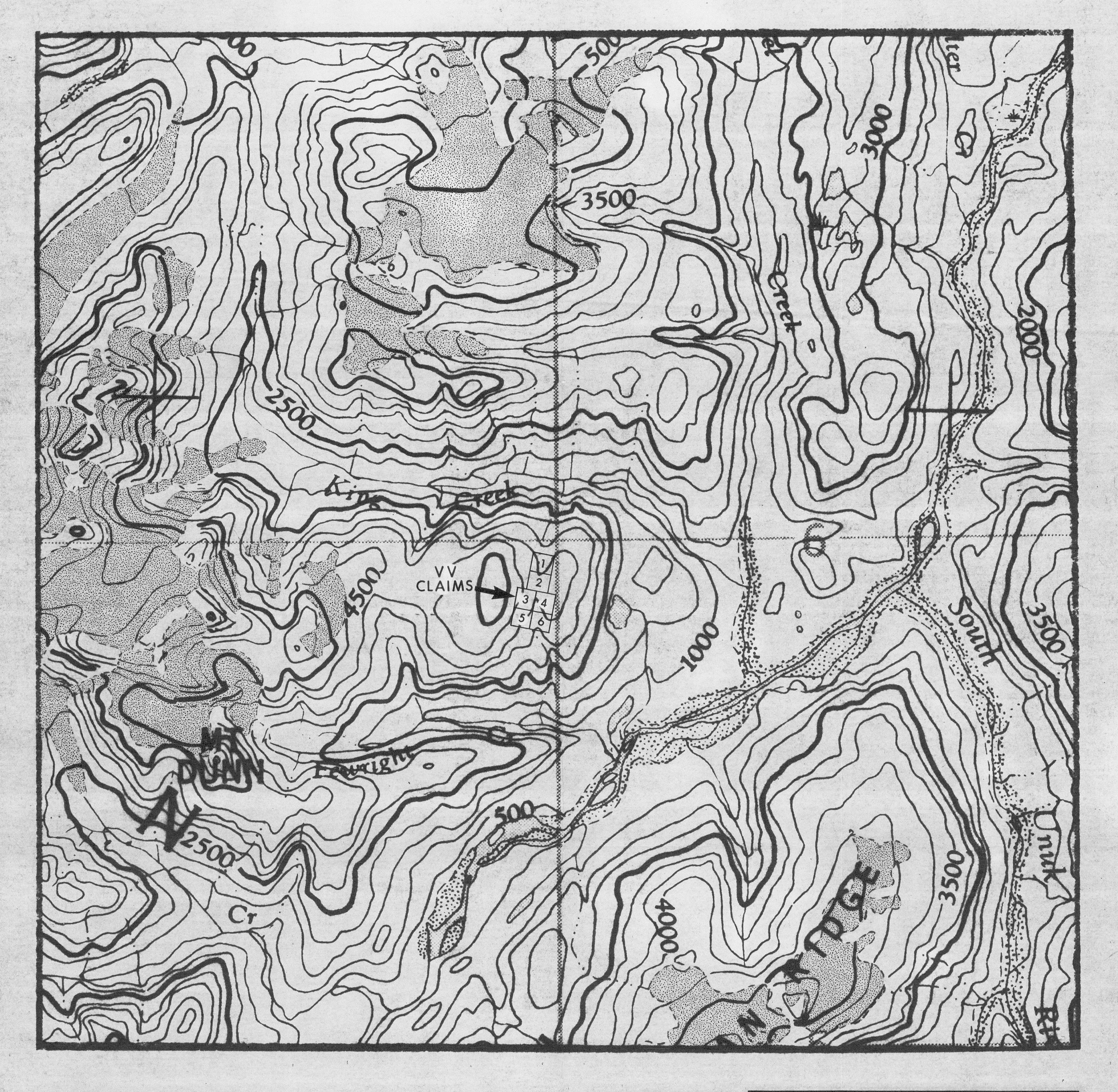
J Hereby Certify that the above results are those assays made by me upon the herein described samples . . . .

Rejects Retained one month.

Pulps Retained one month
unless specific arrangements
made in advance.

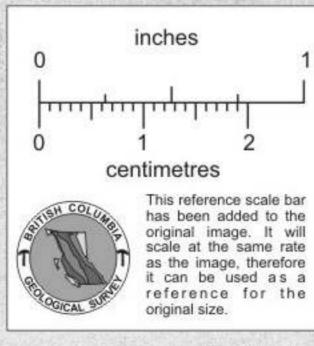
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Licensed Assayer of British Columbia



LEGEND







DEVELOPMENT COMPANY
OF CANADA, LTD.
BRITISH COLUMBIA

VV CLAIM GROUP

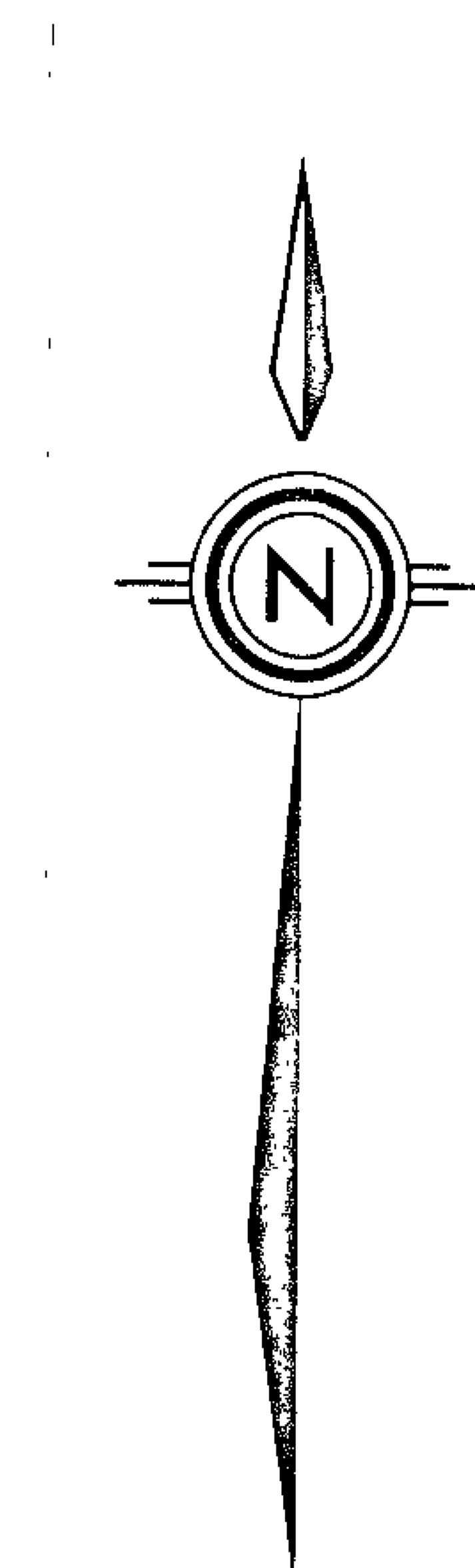
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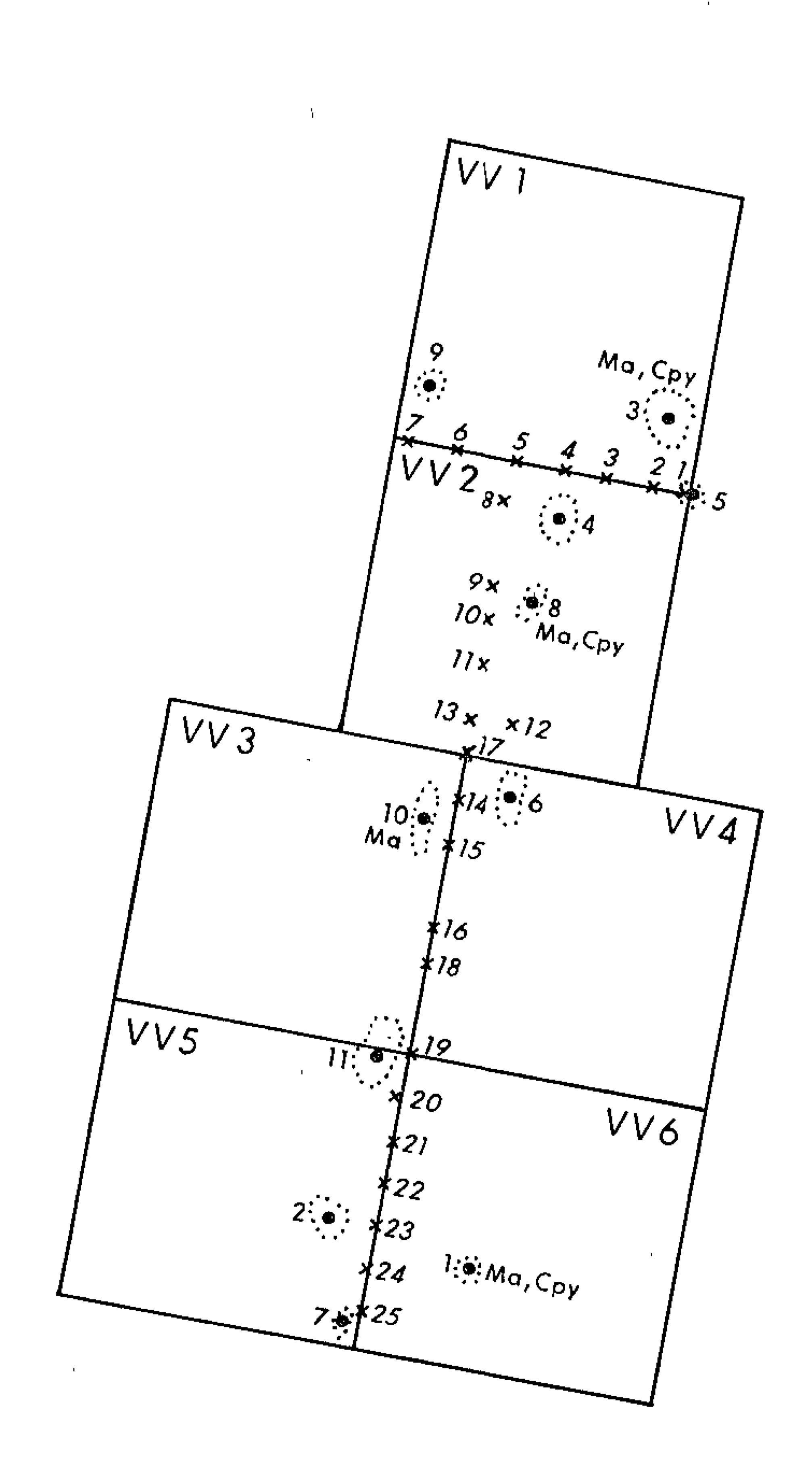
R. VISAGIE

SEPT., 1974

# S Y M B O L S

- 9 ROCK SAMPLE LOCATION
- × 12 SOIL SAMPLE LOCATION
- OUTCROP





	ROCK SAMPLES			
No	Aυ	Ag	Cu	Мо
1	.01	.06	. 1 1	
2	.01	.08	.07	.004
3	.01	.07	.17	
4	Tr	Tr	.02	
5	Tr	.04	.04	
6	.04	Tr	.01	
7	.01	.06	.01	.002
8	Tr	Tr	.32	
9	.01	.04	.03	
10	.02	.02	.07	
11	.01	.32	.04	

