

LOG NO: 18-01

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ACTION:

FILE NO:

PROSPECTING
ASSESSMENT REPORT

on the

ALOCIN 1 AND ALOCIN 2

CLAIMS

(ALOCIN PROPERTY)

VERNON MINING DIVISION

BRITISH COLUMBIA

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

20,830

NTS: 82L/4W, 82E/13W
Latitude: 50° 00.5' North
Longitude: 119° 46' West
Owner: Chevron Minerals Ltd.
Operator: Inco Exploration and Technical Services Inc.
Consultants: Discovery Consultants
Author: Paul Ziebart
Date: December 30, 1990

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Figure 3	Prospecting Map (1:5,000)	In Pocket	

APPENDICES

Appendix 1	Analytical Procedures and Detection Limits
Appendix 2	Analytical Results

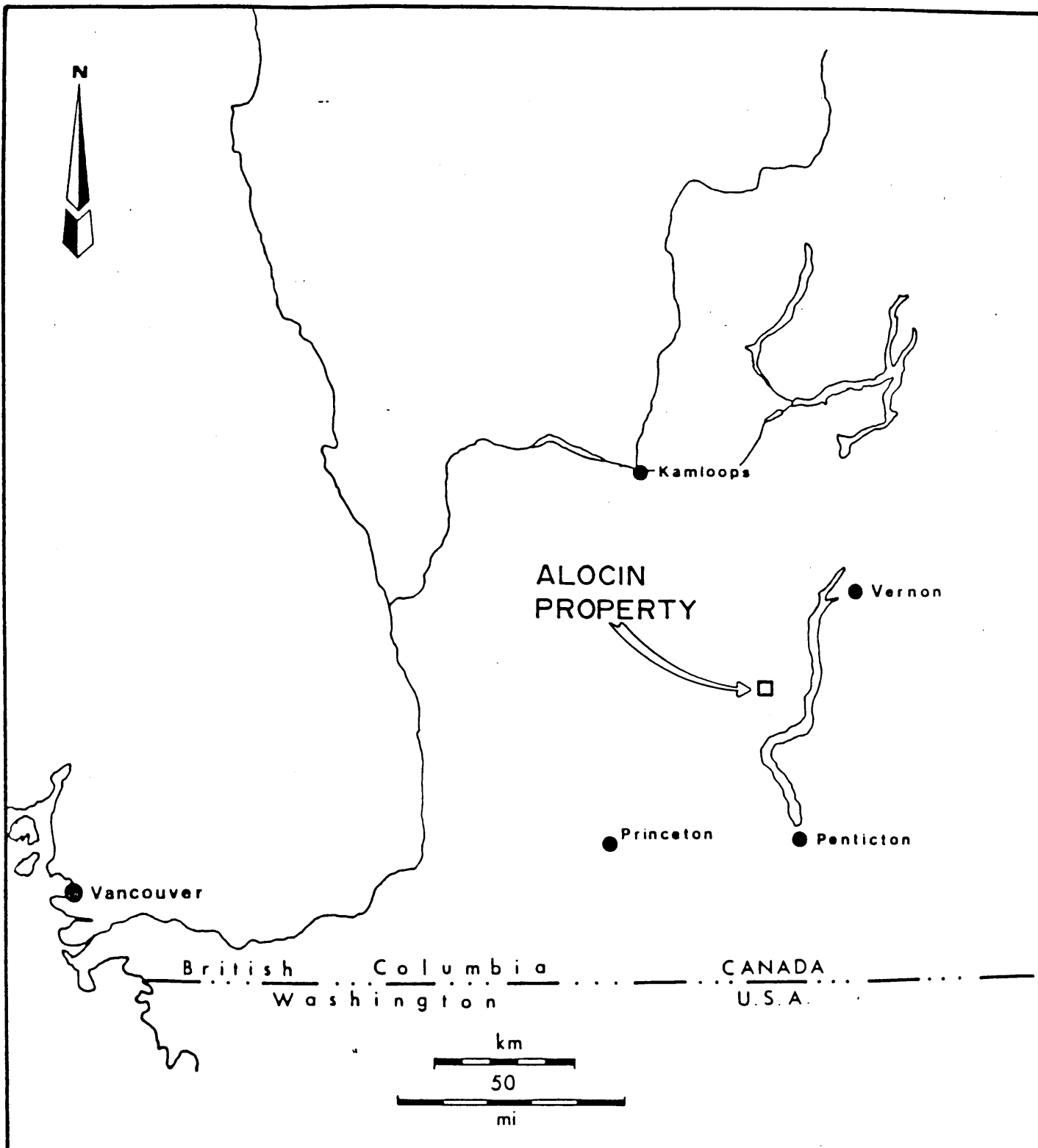
SUMMARY

The ALOCIN property, owned by Chevron Minerals Ltd., consists of 43 claim units located 25 km northwest of Kelowna in south central British Columbia.

The property is underlain by the Jurassic/Cretaceous Okanagan Batholith which cuts Upper Triassic Nicola Group sedimentary rocks.

The property was staked in 1987 through 1989 to evaluate the gold potential of an area peripheral to porphyry molybdenum/copper mineralization. Follow-up heavy mineral drainage sampling, minor soil & silt sampling were carried out in 1988, 1989 and 1990.

This report describes the work done on the ALOCIN 1 & 2 claims during the period October 7 to 9, 1990. Three days were spent prospecting and 16 rock samples along with 5 stream sediment samples were collected for multi-element geochemical analysis. Geochemical results returned only background values for gold along with a few anomalous Cu-Mo values from areas of known mineralization.



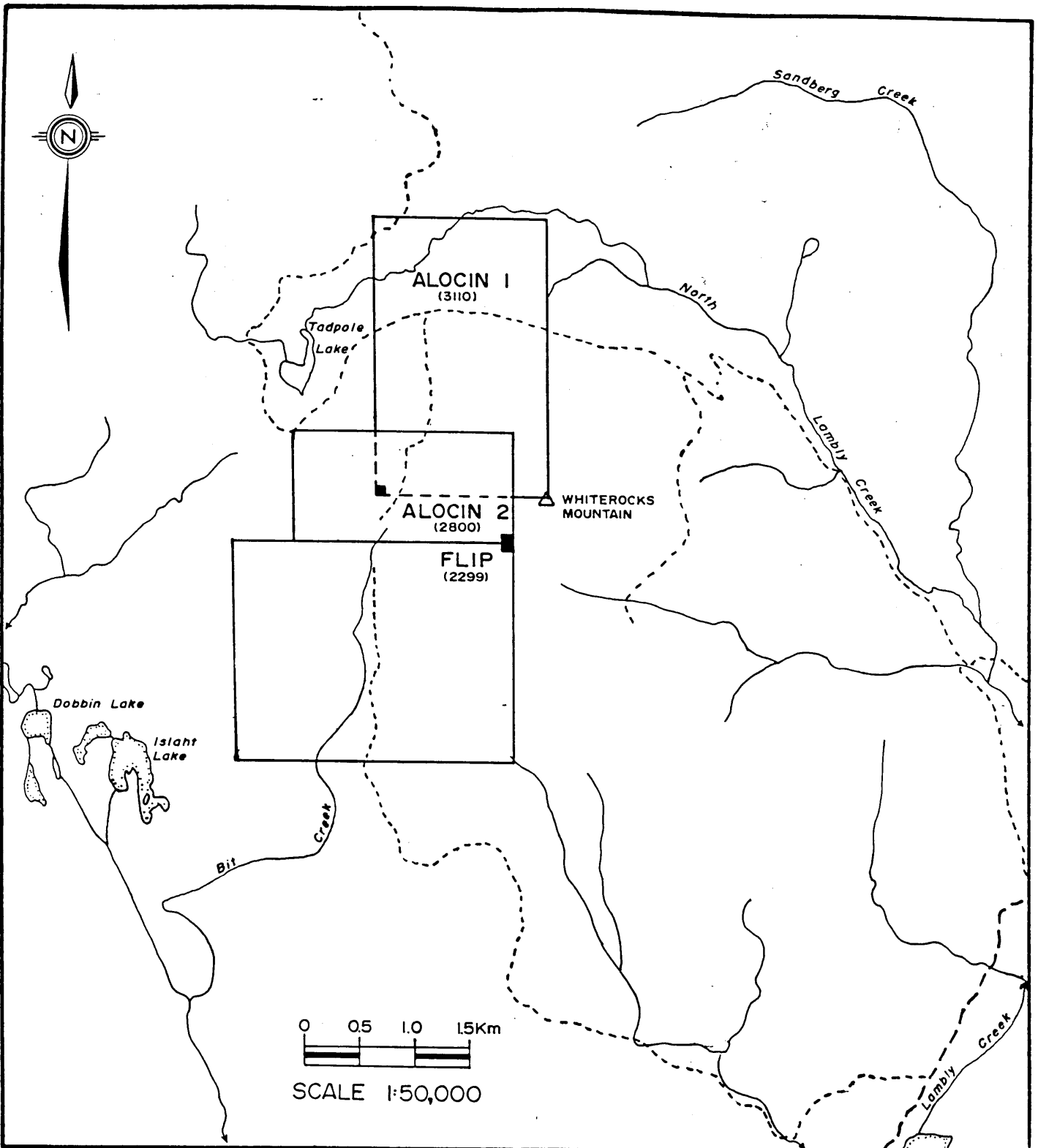
DISCOVERY Consultants		Chevron Minerals Ltd.	
<i>ALOCIN PROPERTY</i>		<i>LOCATION MAP</i>	
DATE: Aug. 28/90	PROJECT: 325	SCALE: as shown	N.T.S.: B2-L/4W
		M.D.: VERNON	FIGURE: 1

INTRODUCTION

The ALOCIN mineral claims are located on the west flank of Whiterocks Mountain 24 km northwest of Kelowna, B.C. The author spent a total of 3 days (October 7-9, 1990) prospecting the claims. Sixteen rock samples and 5 stream sediment samples were collected and sent to Acme Analytical Laboratories Ltd. in Vancouver for geochemical analysis.

The property has had considerable exploration work done on it in the past, including percussion and diamond drilling, to assess its economic potential as a porphyry copper deposit.

Prospecting done in 1990 was directed toward the discovery of epithermal type gold mineralization.



DISCOVERY Consultants

Chevron Minerals Ltd.

ALOCIN PROPERTY

CLAIM MAP

DATE: Aug. 28/90

PROJECT: 325

SCALE: 1:50,000

N.T.S.: 82-L/4W

M.D.: VERNON

FIGURE: 2

TECHNICAL DATA

A. Rock Sampling

<u>Sample No.</u>	<u>Description</u>
233-90-101	Outcrop, grab sample, rusty weathering highly siliceous rock with disseminated pyrite. Contact zone, argillite-plutonic rocks.
233-90-102	Outcrop, rusty weathering, black coloured argillite, grab sample, fine granular pyrite, as seams & as disseminations.
233-90-103	Outcrop, grab sample, rusty weathering, black coloured, fissile argillite, fine grained disseminated pyrite.
233-90-104	Outcrop, grab sample, same as -101, typical mineralization found in argillite-monzonite contacts.
233-90-105	Outcrop, grab sample, rusty weathering medium grained diorite, silicified & pyritic.
233-90-106	Outcrop, grab sample, contact monzonite-argillite, pyritic.
233-90-107	Outcrop, grab sample, rusty weathering, light to dark grey coloured highly siliceous monzonite with fine disseminated pyrite and glassy quartz veinlets up to 1mm wide.
233-90-108	Outcrop, grab sample, rusty weathering limestone breccia in contact with gabbro. Some disseminated pyrite, chlorite alteration.
233-90-109	Local angular float, Fe-stained siliceous argillite.
233-90-110	Outcrop, grab sample, Fe-stained, shear intrusive(?) rock.
233-90-111	Outcrop, grab sample, grey coloured quartz vein, Fe-stained.
233-90-112	Outcrop, grab sample, Fe-stained siliceous diorite (?). Disseminated pyrite, a few quartz veinlets.

- 233-90-113 Outcrop, chip sample across 1 metre. Silicified well-fractured diorite, much Fe-staining.
- 233-90-114 Outcrop, grab sample, dark grey coloured clastic sediment with limestone stretched clasts & layers. Fe-stained.
- 233-90-115 Outcrop, Limestone conglomerate.
- 233-90-116 Outcrop, grab sample, sampled across limestone - diorite contact, Fe-stained, silicified.

B. Stream Sediment Sampling

- 233-90-501-555 Silt samples.

INTERPRETATION

The rock and stream silt sampling failed to detect any significant gold mineralization. The area prospected is underlain by Nicola Group argillite and conglomerate which have been intruded by epidote altered monzonite and diorite (Figure 2). Ultramafic rocks are also present. The limestone conglomerate unit probably warrants additional sampling.

Respectfully submitted,

DISCOVERY CONSULTANTS



Paul Ziebart

December 30, 1990

STATEMENT OF COSTS

1.	Personnel		
	Prospecting		
	P. Ziebart October 7-9, 1990		
	3 days @ \$280/day	\$ 840.00	
	Report Writing		
	P. Ziebart		
	1 day @ \$280/day	<u>280.00</u>	\$ 1120.00
2.	Transport 4 x 4 Truck		
	3 days @ \$40/day	120.00	
	610 km @ .35/km	<u>213.50</u>	333.50
3.	Analysis and Sample Preparation		
	Au + 29 element ICP		
	5 silt samples @ \$8.50/sample	42.50	
	16 rock samples @ \$12.25/sample	<u>196.00</u>	238.50
4.	Office Expenses		
	Secretarial, printing	100.00	
	Drafting	<u>150.00</u>	<u>250.00</u>
		Total	<u>\$1942.00</u>

STATEMENT OF QUALIFICATIONS

I, Paul A. Ziebart, of the city of Kelowna, in the Province of British Columbia, do hereby state that:

1. I completed a two year course in Mining Technology at the Haileybury School of Mines in Haileybury, Ontario in 1969.
2. I have been employed as a prospector and/or technician in various phases of mining exploration for the last twenty one years.
3. I have been involved in mineral exploration programs carried out in B.C., the Yukon, N.W.T. and Quebec in the last twenty one years.



Paul Ziebart

Vernon, BC
December 30, 1990

APPENDIX 1

ANALYTICAL PROCEDURES

Geochemical Analysis - Soil & Silt

by ACME Analytical Laboratories Ltd.

<u>ELEMENT</u>	<u>LOWER</u>	<u>UPPER</u>	<u>EXTRACTION</u>	<u>METHOD</u>
	<u>DETECTION</u>	<u>LIMIT</u>		
Au Gold	1	ppb	MIBK (acid leach)	atomic absorption
Ag Silver	0.1	ppm 30	HCl-HNO ₃	ind. coupled plasma
Al * Aluminum	0.01	%	HCl-HNO ₃	ind. coupled plasma
As Arsenic	2	ppm 10000	HCl-HNO ₃	ind. coupled plasma
B * Boron	2	ppm	HCl-HNO ₃	ind. coupled plasma
Ba * Barium	2	ppm	HCl-HNO ₃	ind. coupled plasma
Bi Bismuth	2	ppm	HCl-HNO ₃	ind. coupled plasma
Ca * Calcium	0.01	%	HCl-HNO ₃	ind. coupled plasma
Cd Cadmium	1.0	ppm 10000	HCl-HNO ₃	ind. coupled plasma
Co Cobalt	1	ppm	HCl-HNO ₃	ind. coupled plasma
Cr * Chromium	1	ppm	HCl-HNO ₃	ind. coupled plasma
Cu Copper	1	ppm 10000	HCl-HNO ₃	ind. coupled plasma
Fe * Iron	0.01	%	HCl-HNO ₃	ind. coupled plasma
K * Potassium	0.01	%	HCl-HNO ₃	ind. coupled plasma
La * Lanthanum	2	ppm	HCl-HNO ₃	ind. coupled plasma
Mg * Magnesium	0.01	%	HCl-HNO ₃	ind. coupled plasma
Mn * Manganese	1	ppm	HCl-HNO ₃	ind. coupled plasma
Mo Molybdenum	1	ppm 1000	HCl-HNO ₃	ind. coupled plasma
Na * Sodium	0.01	%	HCl-HNO ₃	ind. coupled plasma
Ni Nickel	1	ppm 10000	HCl-HNO ₃	ind. coupled plasma
P * Phosphorus	0.001	%	HCl-HNO ₃	ind. coupled plasma
Pb Lead	2	ppm 10000	HCl-HNO ₃	ind. coupled plasma
Sb Antimony	2	ppm 1000	HCl-HNO ₃	ind. coupled plasma
Sr * Strontium	1	ppm	HCl-HNO ₃	ind. coupled plasma
Th Thorium	2	ppm	HCl-HNO ₃	ind. coupled plasma
Ti * Titanium	0.01	%	HCl-HNO ₃	ind. coupled plasma
U Uranium	5	ppm	HCl-HNO ₃	ind. coupled plasma
V Vanadium	2	ppm	HCl-HNO ₃	ind. coupled plasma
W Tungston	2	ppm	HCl-HNO ₃	ind. coupled plasma
Zn Zinc	1	ppm 10000	HCl-HNO ₃	ind. coupled plasma

* Please note: certain mineral forms of those elements above marked with an asterisk will not be soluble in the HCl-HNO₃ extraction. The ICP data will be low biased.

ANALYTICAL PROCEDURES

Geochemical Analysis - Rock

by ACME Analytical Laboratories Ltd.

<u>ELEMENT</u>	<u>LOWER</u>	<u>UPPER</u>	<u>EXTRACTION</u>	<u>METHOD</u>
	<u>DETECTION</u>	<u>LIMIT</u>		
Au Gold	1	ppb	Fire Assay	atomic absorption
Ag Silver	0.1	ppm 30	HCl-HNO ₃	ind. coupled plasma
Al * Aluminum	0.01	%	HCl-HNO ₃	ind. coupled plasma
As Arsenic	2	ppm 10000	HCl-HNO ₃	ind. coupled plasma
B * Boron	2	ppm	HCl-HNO ₃	ind. coupled plasma
Ba * Barium	2	ppm	HCl-HNO ₃	ind. coupled plasma
Bi Bismuth	2	ppm	HCl-HNO ₃	ind. coupled plasma
Ca * Calcium	0.01	%	HCl-HNO ₃	ind. coupled plasma
Cd Cadmium	1.0	ppm 10000	HCl-HNO ₃	ind. coupled plasma
Co Cobalt	1	ppm	HCl-HNO ₃	ind. coupled plasma
Cr * Chromium	1	ppm	HCl-HNO ₃	ind. coupled plasma
Cu Copper	1	ppm 10000	HCl-HNO ₃	ind. coupled plasma
Fe * Iron	0.01	%	HCl-HNO ₃	ind. coupled plasma
K * Potassium	0.01	%	HCl-HNO ₃	ind. coupled plasma
La * Lanthanum	2	ppm	HCl-HNO ₃	ind. coupled plasma
Mg * Magnesium	0.01	%	HCl-HNO ₃	ind. coupled plasma
Mn * Manganese	1	ppm	HCl-HNO ₃	ind. coupled plasma
Mo Molybdenum	1	ppm 1000	HCl-HNO ₃	ind. coupled plasma
Na * Sodium	0.01	%	HCl-HNO ₃	ind. coupled plasma
Ni Nickel	1	ppm 10000	HCl-HNO ₃	ind. coupled plasma
P * Phosphorus	0.001	%	HCl-HNO ₃	ind. coupled plasma
Pb Lead	2	ppm 10000	HCl-HNO ₃	ind. coupled plasma
Sb Antimony	2	ppm 1000	HCl-HNO ₃	ind. coupled plasma
Sr * Strontium	1	ppm	HCl-HNO ₃	ind. coupled plasma
Th Thorium	2	ppm	HCl-HNO ₃	ind. coupled plasma
Ti * Titanium	0.01	%	HCl-HNO ₃	ind. coupled plasma
U Uranium	5	ppm	HCl-HNO ₃	ind. coupled plasma
V Vanadium	2	ppm	HCl-HNO ₃	ind. coupled plasma
W Tungston	2	ppm	HCl-HNO ₃	ind. coupled plasma
Zn Zinc	1	ppm 10000	HCl-HNO ₃	ind. coupled plasma

* Please note: certain mineral forms of those elements above marked with an asterisk will not be soluble in the HCl-HNO₃ extraction. The ICP data will be low biased.

APPENDIX 2

Date of Report: 31-Oct-90

Project 233

Alocin

Rock Sampling Results
1990

Reference: acme90-5543

Sample ID	Au ppb	Ag ppm	As ppm	Ba ppm	Bi ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mo ppm	Ni ppm	Pb ppm	Sb ppm	W ppm	Zn ppm
233-90-101	6	0.2	2	60	2	12	19	101	3.15	6	24	2	2	1	35
233-90-102	8	0.1	3	241	2	6	32	36	2.67	40	12	3	3	1	66
233-90-103	3	0.5	4	222	2	9	42	52	3.98	1	29	4	2	1	120
233-90-104	7	0.3	3	473	2	8	63	57	4.26	11	17	3	2	1	68
233-90-105	7	0.4	2	50	2	14	5	615	3.32	14	12	3	2	5	15
233-90-106	1	0.1	4	108	2	7	49	48	3.28	7	17	4	2	1	51
233-90-107	7	0.1	5	77	2	3	34	34	2.79	12	9	3	2	1	18
233-90-108	3	0.3	4	72	2	7	4	88	1.75	6	15	4	2	1	18
233-90-109	4	0.3	7	340	2	10	64	50	3.26	5	27	3	3	1	95
233-90-110	24	0.2	8	235	2	15	97	172	3.98	133	47	4	2	1	40
233-90-111	8	0.1	2	6	2	3	71	37	0.76	12	17	2	2	1	3
233-90-112	2	0.3	12	243	2	16	60	160	3.81	7	47	2	3	1	51
233-90-113	2	0.2	7	227	2	18	54	184	4.20	1	44	4	4	1	52
233-90-114	27	0.4	13	29	2	7	18	39	2.14	2	18	3	2	1	16
233-90-115	21	0.1	2	687	2	2	5	11	0.41	1	3	2	2	1	33
233-90-116	3	0.4	5	73	2	10	26	84	2.50	5	22	3	2	1	48

Project 233 Rock Sampling Results (part 2)

Sample ID	Al %	B ppm	Ca %	Cd ppm	K %	La ppm	Mg %	Mn ppm	Na %	P %	Sr ppm	Th ppm	Ti %	U ppm	V ppm
233-90-101	1.02	2	0.82	0.4	0.10	8	0.34	219	0.15	0.079	52	2	0.12	5	30
233-90-102	1.58	2	0.29	0.5	0.58	9	0.56	412	0.13	0.052	18	2	0.15	5	51
233-90-103	4.86	2	1.97	0.6	1.07	7	1.11	248	0.34	0.057	160	3	0.18	5	118
233-90-104	2.46	2	0.60	0.5	0.97	13	1.10	664	0.22	0.090	41	4	0.26	5	125
233-90-105	0.72	2	0.69	0.3	0.12	9	0.18	129	0.11	0.126	49	1	0.09	5	35
233-90-106	1.76	2	0.57	0.2	0.15	10	0.86	482	0.14	0.063	54	4	0.18	5	91
233-90-107	0.60	2	0.41	0.2	0.09	7	0.10	108	0.14	0.068	36	1	0.18	5	47
233-90-108	0.35	2	9.57	0.6	0.08	9	0.08	286	0.08	0.083	59	2	0.08	5	16
233-90-109	2.69	2	1.00	0.3	0.84	8	0.90	699	0.25	0.057	73	3	0.23	5	101
233-90-110	1.53	2	0.54	0.5	0.55	13	1.16	390	0.11	0.103	39	6	0.20	5	91
233-90-111	0.07	2	0.01	0.2	0.01	2	0.03	59	0.01	0.004	2	1	0.01	5	4
233-90-112	1.55	2	0.66	0.4	0.49	18	1.23	368	0.15	0.160	39	10	0.21	5	111
233-90-113	1.96	5	0.68	0.4	0.48	23	1.51	475	0.12	0.225	48	9	0.22	5	138
233-90-114	1.74	2	6.42	0.4	0.09	6	0.22	332	0.28	0.066	189	2	0.10	5	14
233-90-115	0.56	2	16.67	0.8	0.06	5	0.13	322	0.04	0.056	187	3	0.03	5	11
233-90-116	1.30	3	0.99	0.3	0.26	11	0.50	339	0.16	0.112	104	4	0.14	5	62

Date of Report: 31-Oct-90

Project 233

Alocin

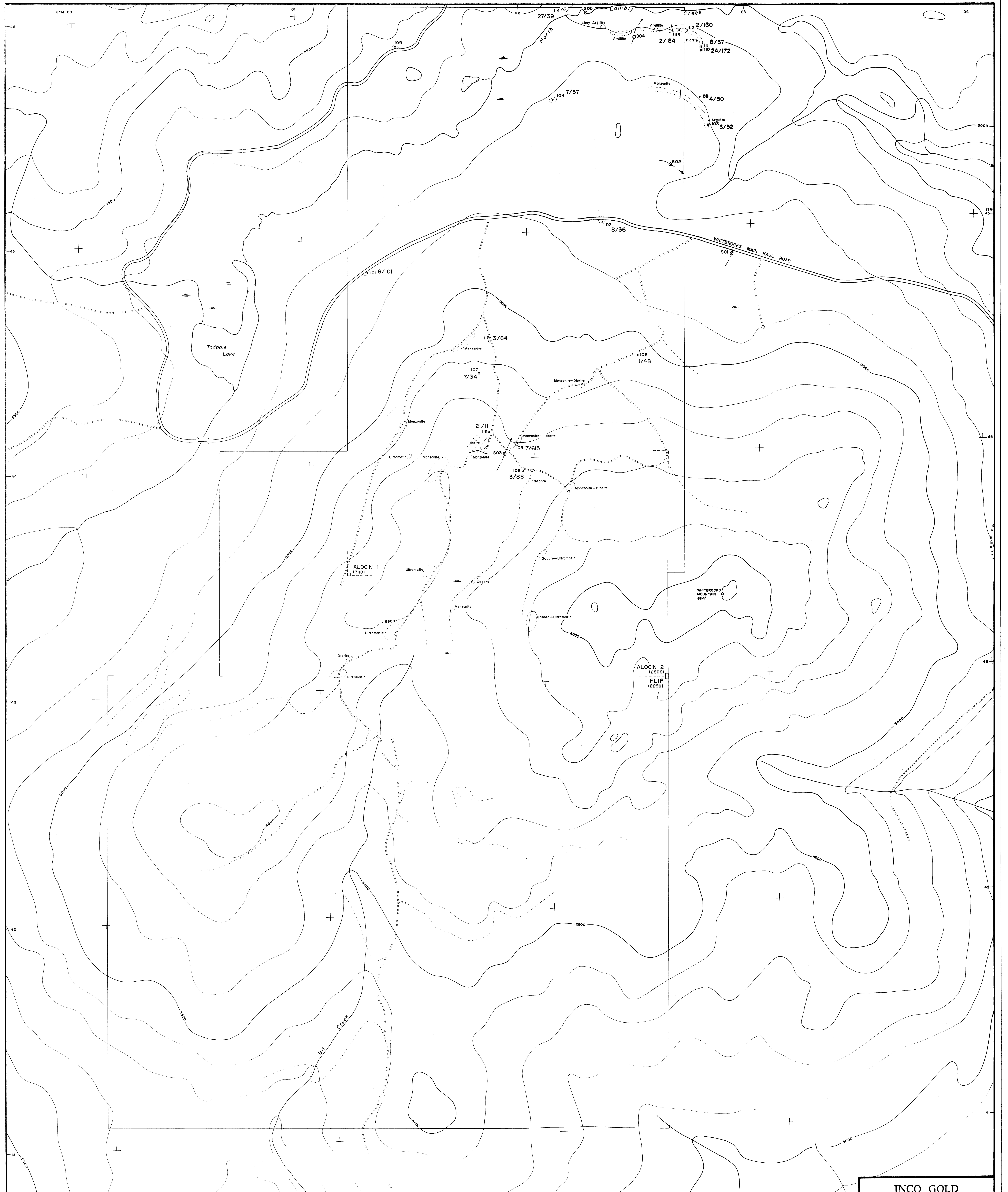
Silt Sampling Results
1990

Reference: acme90-5543

Sample ID	Au ppb	Ag ppm	As ppm	Ba ppm	Bi ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mo ppm	Ni ppm	Pb ppm	Sb ppm	W ppm	Zn ppm
233-90-501	3	0.1	4	189	3	10	25	28	3.53	9	16	10	2	2	76
233-90-502	1	0.2	5	211	3	12	28	57	3.88	5	19	6	2	3	95
233-90-503	2	0.3	4	96	2	6	21	50	1.64	5	11	12	2	1	62
233-90-504	1	0.2	7	130	2	10	33	54	3.64	2	29	11	3	2	106
233-90-505	1	0.1	10	339	2	12	19	15	4.53	30	18	2	2	1	107

Project 233 Silt Sampling Results (part 2)

Sample ID	Al %	B ppm	Ca %	Cd ppm	K %	La ppm	Mg %	Mn ppm	Na %	P %	Sr ppm	Th ppm	Ti %	U ppm	V ppm
233-90-501	1.79	2	0.54	0.6	0.13	11	0.46	5892	0.03	0.062	53	1	0.11	5	64
233-90-502	2.13	2	0.65	1.1	0.27	18	0.67	1983	0.03	0.071	41	1	0.12	5	77
233-90-503	1.57	2	0.70	0.2	0.05	9	0.27	505	0.02	0.067	32	1	0.08	5	39
233-90-504	2.27	2	0.75	0.2	0.32	16	0.87	552	0.06	0.057	61	3	0.14	5	84
233-90-505	1.20	2	0.40	3.5	0.12	14	0.45	4852	0.04	0.045	34	1	0.07	5	49

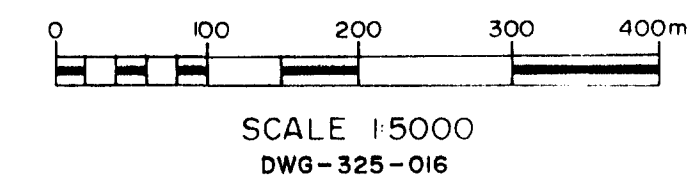
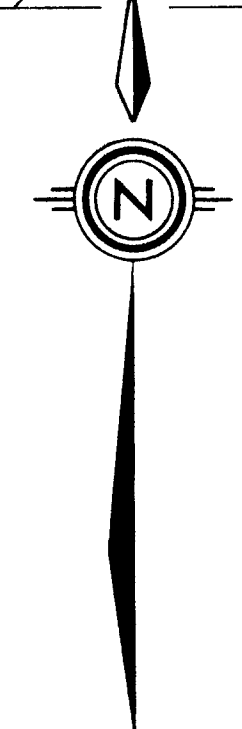


LEGEND

- Outcrop
- Geological boundary
- Rock sample
- 6/101 Values shown: ppb Au / ppm Cu
- 0501 Silt sample - all values < 5 ppb Au

20,830
 GEOLOGICAL REPORT
 ASSESSMENT REPORT

Drawn	JULY 21/1989
Revised	
	JULY 27/1990
	DEC. 10/1990



INCO GOLD	
Chevron Minerals Ltd.	
DISCOVERY Consultants	
ALOCIN PROPERTY PROSPECTING - 1990	
DATE	SCALE 1:5000
PROJECT 233	NTS 82-L/AW/B2-E/13W
FIGURE 3	VERNON MINING DIVISION