

FOX GEOLOGICAL CONSULTANTS LTD.

LOG NO: FEB 17 1995 U

ACTION:

FILE NO:

PROSPECTING ASSESSMENT REPORT
ON THE
TROIT CLAIMS

Omineca Mining Division
NTS 93E11

127°05'W Longitude 53°33'N Latitude
Annual Work Approval # SMI-94-0200356-22

by

SUB-RECORDED	
RECEIVED	
FEB 3 1995	
M.R. #	\$
VANCOUVER, B.C.	

Geoffrey N. Goodall, B.Sc., P. Geo.
Fox Geological Consultants Ltd.
1409 - 409 Granville Street
Vancouver, B.C. V6C 1T8

for

FILMED

Phelps Dodge Corporation of Canada, Limited
Suite 912 - 120 Adelaide Street West
Toronto, Ontario M5H 1T1

December 22, 1994

G E O L O G I C A L B R A N C H
Project No 102
A S S E S S M E N T R E P O R T

23,759

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SUMMARY

One day, July 28, 1994, was spent prospecting on the Troit claim. A total of five silt samples and two rock samples were collected by the two-person prospecting team. Silt geochemistry returned weak to moderately anomalous concentrations of copper, arsenic and mercury from three locations and a highly anomalous silver concentration from one sample. Prospecting outlined areas of moderate to intense argillic and sericitic alteration of felsic volcanics. Rock sampling returned moderately anomalous concentrations of gold and arsenic from one such location.

A more detailed program of prospecting and soil/rock geochemistry should be undertaken to further evaluate the anomalous stream sediment samples.

INTRODUCTION

This report summarizes the results of a one day prospecting program on the Troitsa property. Five silt samples and two rock samples were collected from the claim area. The Troit 1 to 4 claims were staked early in February, 1994 to cover an area of hydrothermal alteration noted by regional mapping.

LOCATION AND ACCESS

The Troit 1 to 4 claims are centred at 53°33'N latitude and 127°05'W longitude on NTS mapsheet 93E11 in the Omineca Mining Division (Figure 1). Access to the property was via helicopter from a nearby base camp set up on Sweeney Lake. The claims cover steep topography at 4,650 feet elevation in sub-alpine vegetation on the western margin of the Interior Plateau.

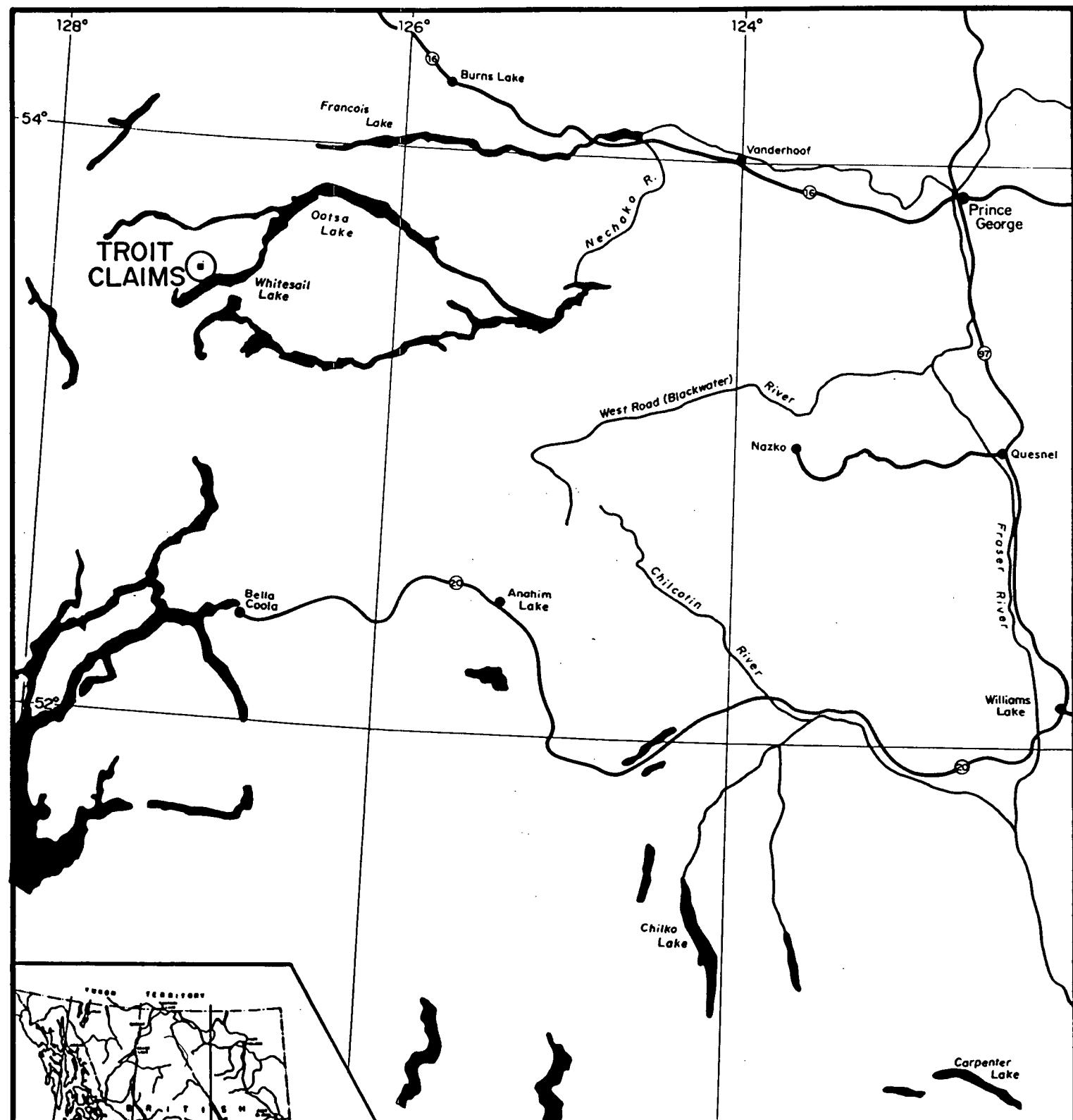
CLAIM INFORMATION

The Troit 1 to 4 two-post mineral claims, shown in Figure 2, were staked February 3, 1994. Claim data are tabulated below. Expiry dates assumes acceptance of the work contained herein for assessment purposes.

Claim Name	No. of Units	Record Numbers	Expiry Date
Troit 1	1	323450	February 3, 1997
Troit 2	1	323451	February 3, 1997
Troit 3	1	323452	February 3, 1997
Troit 4	1	323543	February 3, 1997

REGIONAL GEOLOGY

The Troitsa property is located on the western margin of the Intermontane Belt near the boundary with the Coast Plutonic Complex. The oldest rocks in the vicinity are Lower to Middle Jurassic age Hazelton Group volcanics, volcaniclastic and sedimentary rocks. The Hazelton Group is unconformably overlain by Eocene age Ootsa Lake Group basic to felsic volcanic flows, breccia and tuff. Granitic plugs and dykes of Late Cretaceous to Early Tertiary age intrude the Hazelton Group and are the probable feeders to Ootsa Lake Group volcanics. Zones of pervasive hydrothermal alteration and quartz veins are spatially associated with intrusions and locally contain anomalous concentrations of gold, mercury and arsenic.



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PROJECT N° 192 **OMINECA M.D.**

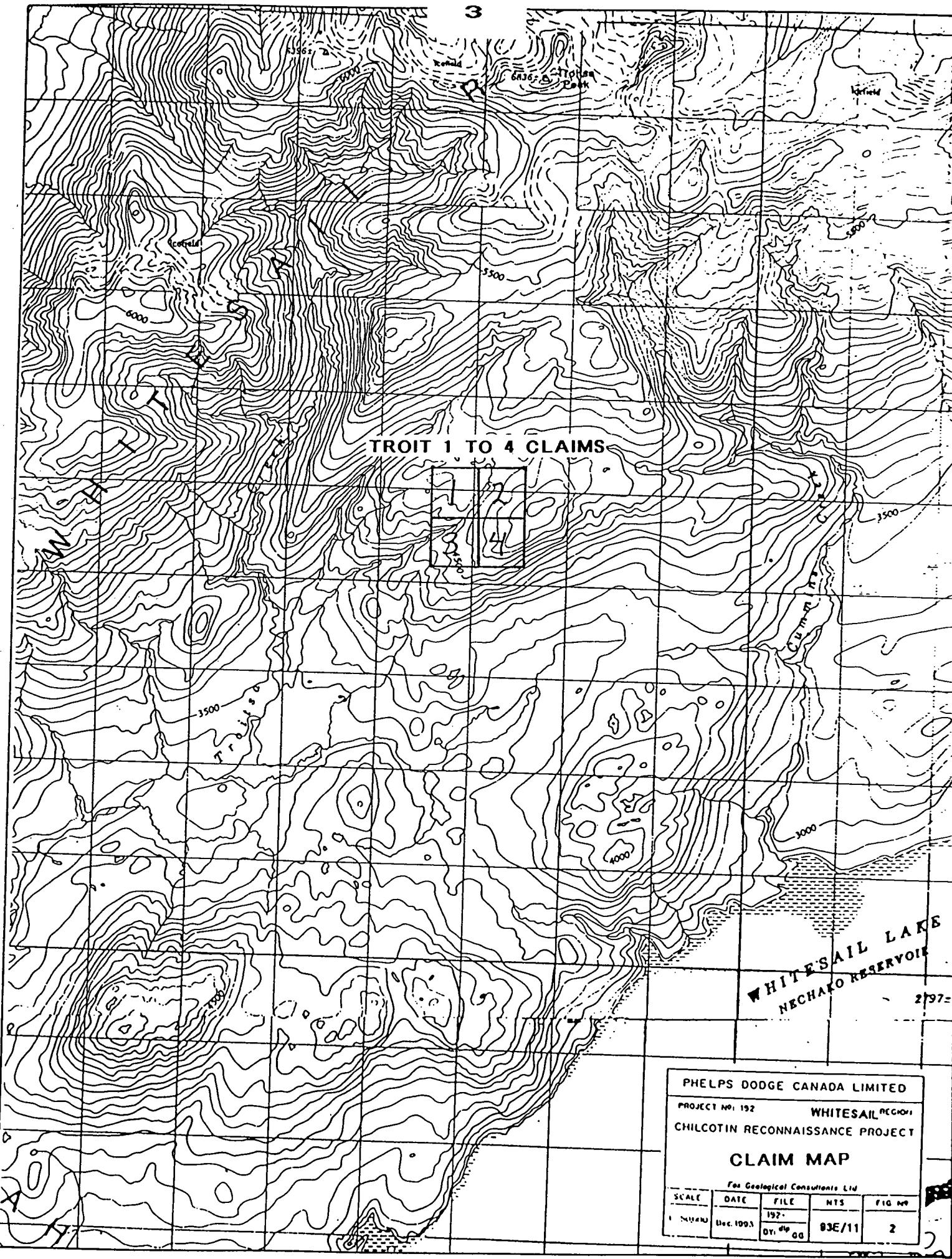
TROIT CLAIMS

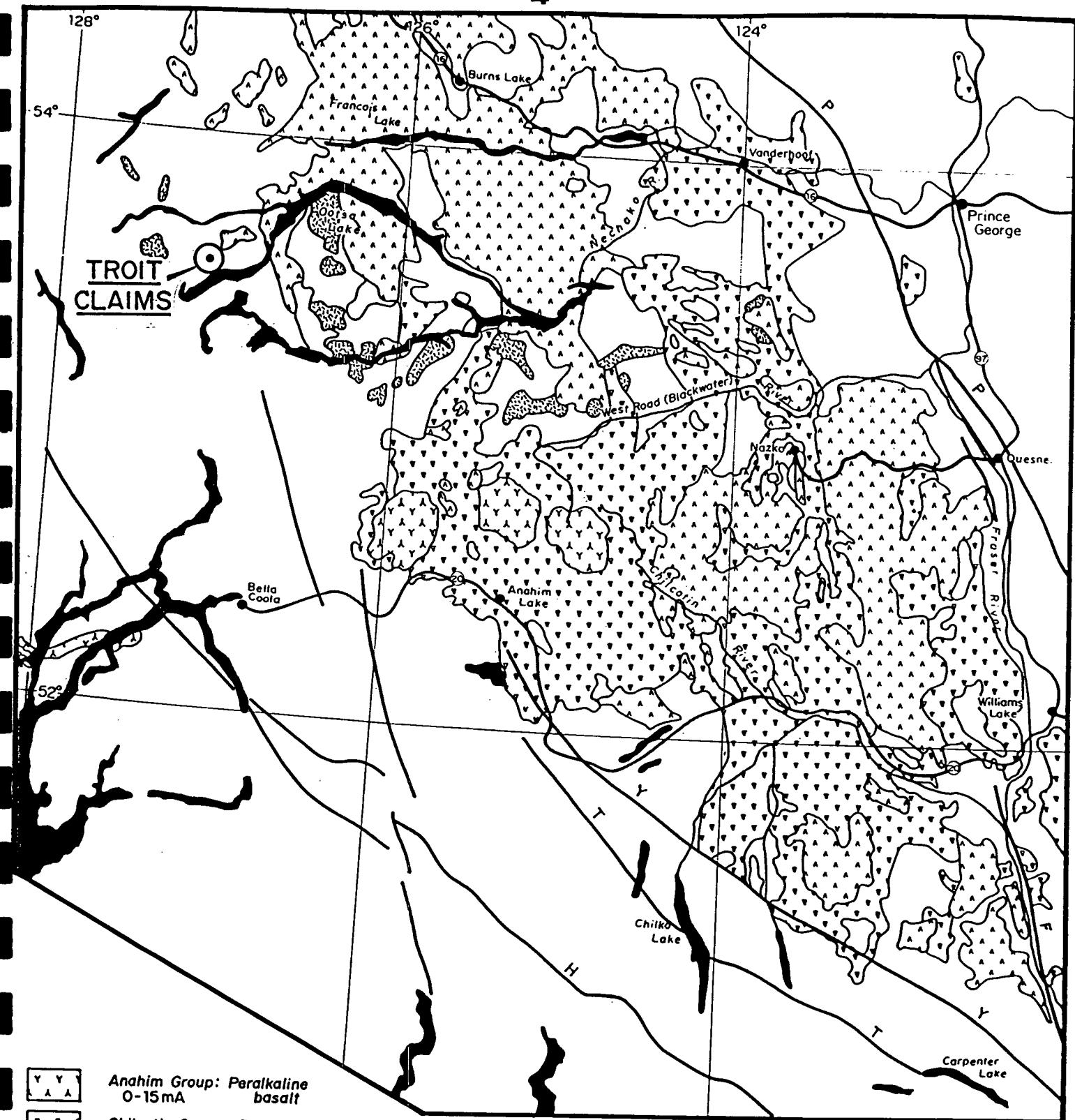
PROPERTY LOCATION & ACCESS

Fox Geological Consultants Ltd.

SCALE	DATE	NTS	FIG NO
1:2,000,000	Dec. 1994	93E/11	1

3





PHELPS DODGE CORP. OF CANADA LTD.

PROJECT NO.

OMINECA M.D.

TROTZ CLAIMS REGIONAL GEOLOGY

Fox Geological Consultants Ltd.

SCALE	DATE	NTS	FIG NO
1:2,000,000	Dec. 1994	93E/11	3

Scale 1: 2,000,000

0 50 100 km

1994 WORK PROGRAM

The 1994 work program on the Troit 1 to 4 mineral claims consisted of a two-man team conducting prospecting, rock and silt sampling over much of the claim area. Approximately one square kilometre was prospected and five silt samples and two rock samples collected. Samples were submitted to Acme Analytical Laboratories Limited, 852 East Hastings Street, Vancouver, B.C. for analysis.

Each sample was analyzed for 30 elements by ICP techniques and for gold by geochemical fire assay methods. Locations for the samples are plotted on Figure 4 and geochemical data provided in Appendix I.

RESULTS

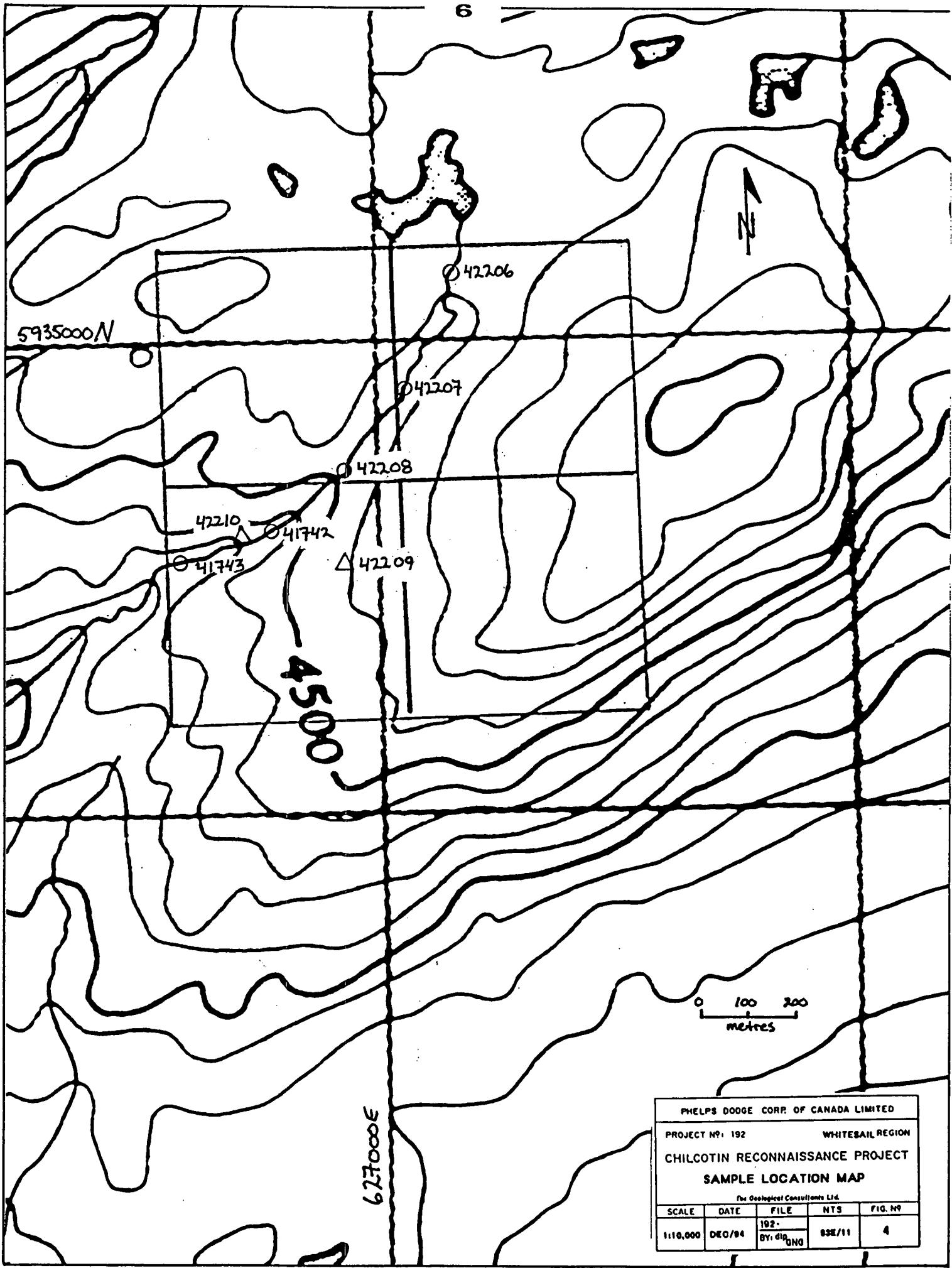
Each of the silt samples returned weak to moderate anomalous concentrations of at least one indicator mineral. Sample 42206, located just below a small lake near the north boundary of the property, returned concentrations of 45 ppm mercury, 22 ppm arsenic and 2.3 ppm silver. Copper was weakly anomalous in three consecutive stream samples (42208, 41742, 41743). None of the silt samples contained anomalous gold concentrations. One rock sample, taken from a limonitic stained rhyolite outcrop, returned 150 ppb gold and 263 ppm arsenic. Figures 5 to 9 indicate results of the sampling program. Figure 10 details results of the prospecting.

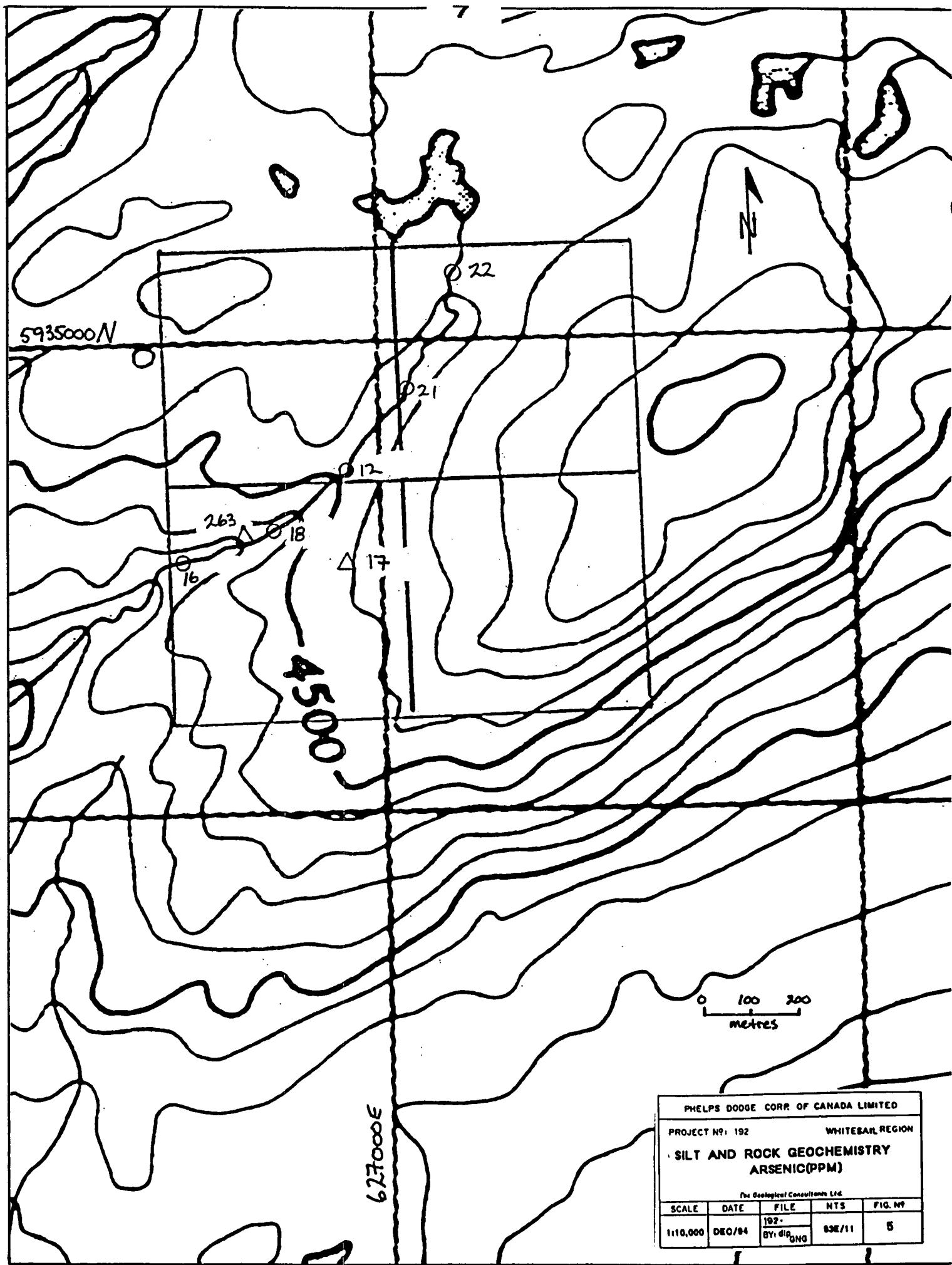
CONCLUSIONS

Prospecting outlined two areas of weak to moderate argillic alteration of probable Ootsa Lake Group felsic volcanics. One location returned weak gold mineralization. Weak to moderately anomalous concentrations of epithermal style indicator minerals were outlined in stream sediment samples. The potential to locate zones of epithermal-style gold mineralization is considered good.

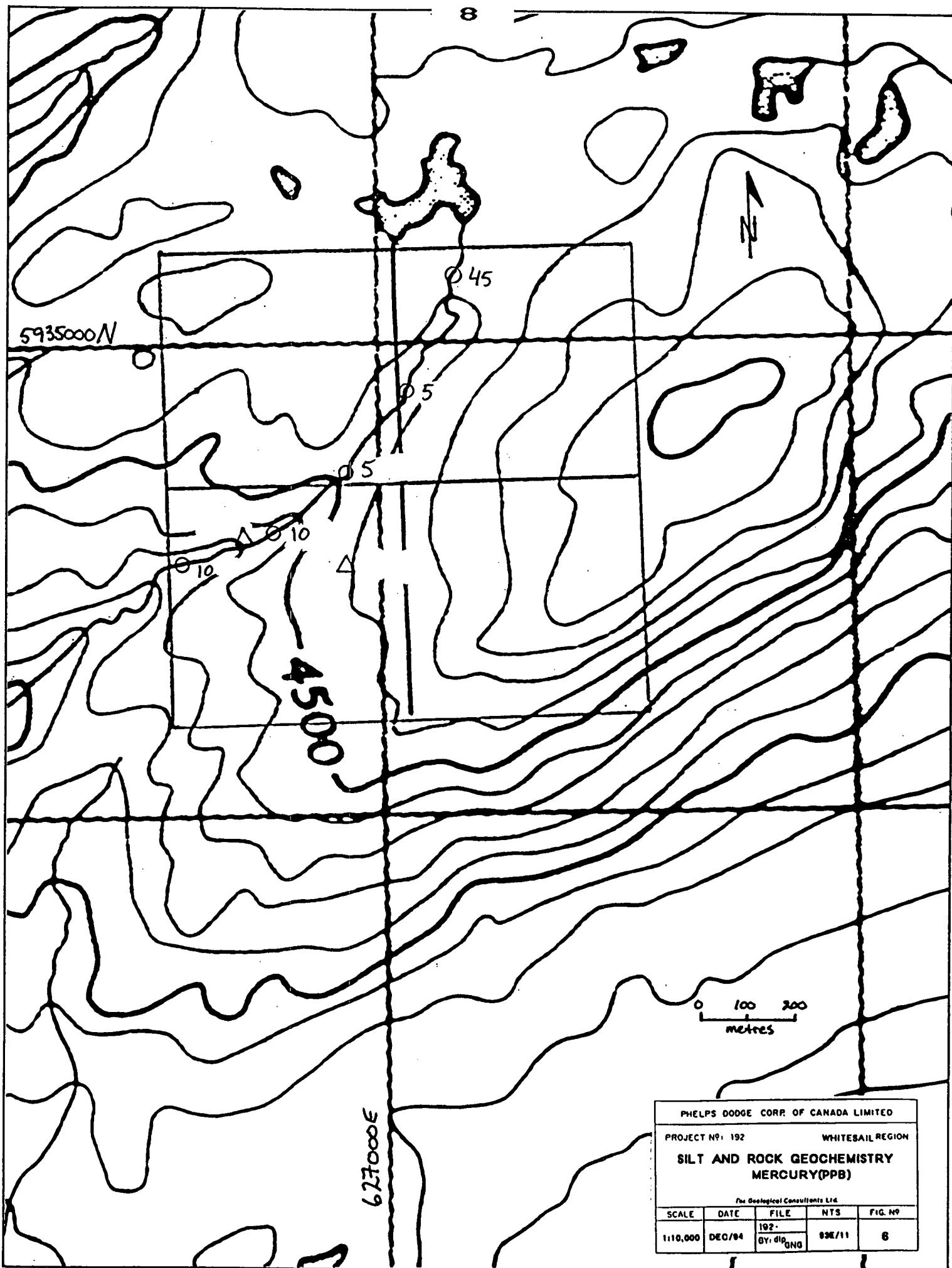
RECOMMENDATIONS

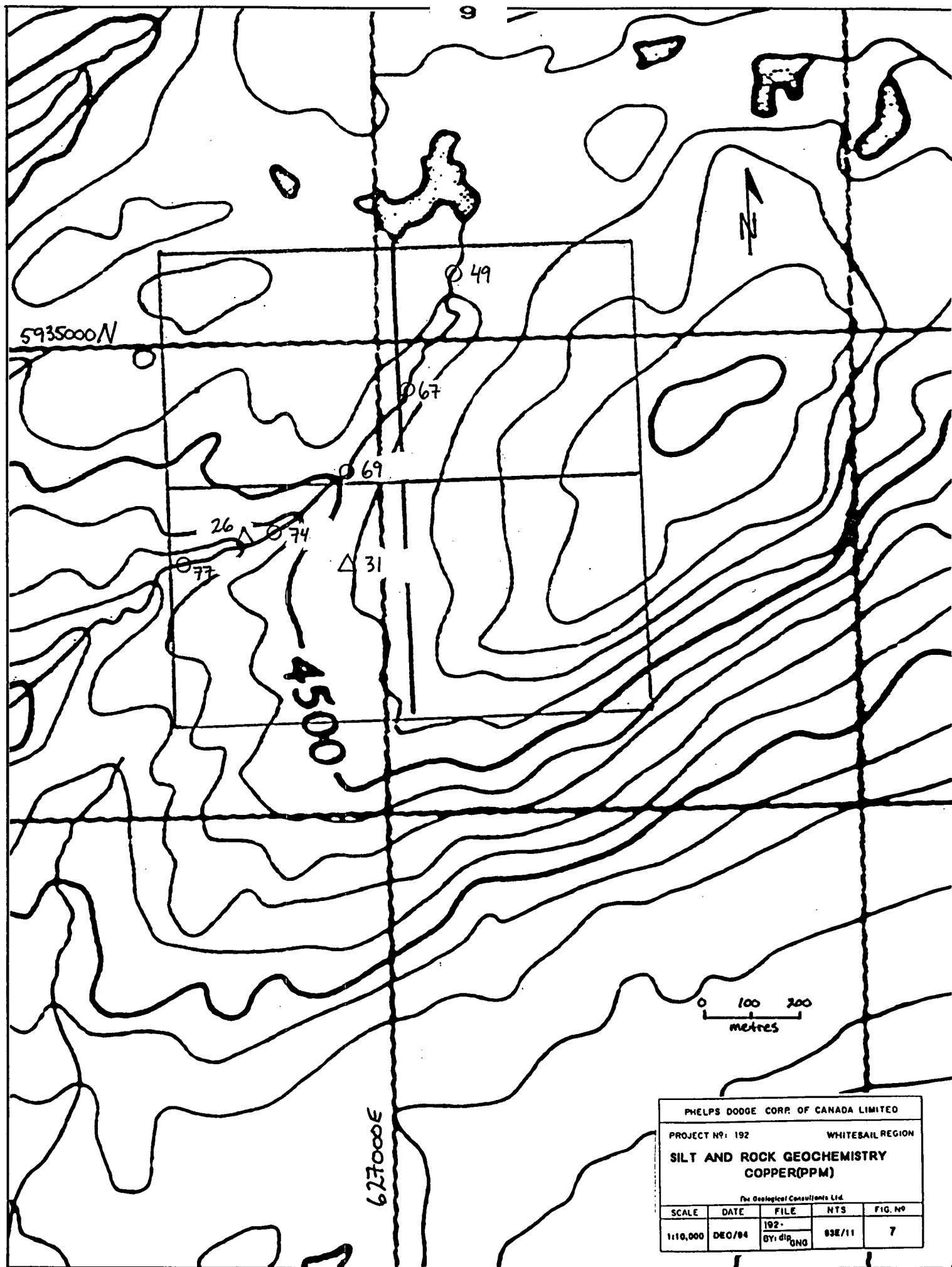
It is recommended to conduct a program of detailed soil geochemistry and mapping over the Troit 1 to 4 claims to explore and determine the extent of any epithermal mineralization.





PHelps Dodge Corp. of Canada Limited							
PROJECT NO. 192		WHITEBAIR REGION					
SILT AND ROCK GEOCHEMISTRY ARSENIC(PPM)							
The Geological Consultants Ltd.							
SCALE	DATE	FILE	NTS	FIG. NO.			
1:10,000	DEC/84 BY DIP. GNO	192- 83E/11		5			





10

5935000N

N

0.2.3

0.0.1

0.0.3

0.2

0.3

0.5

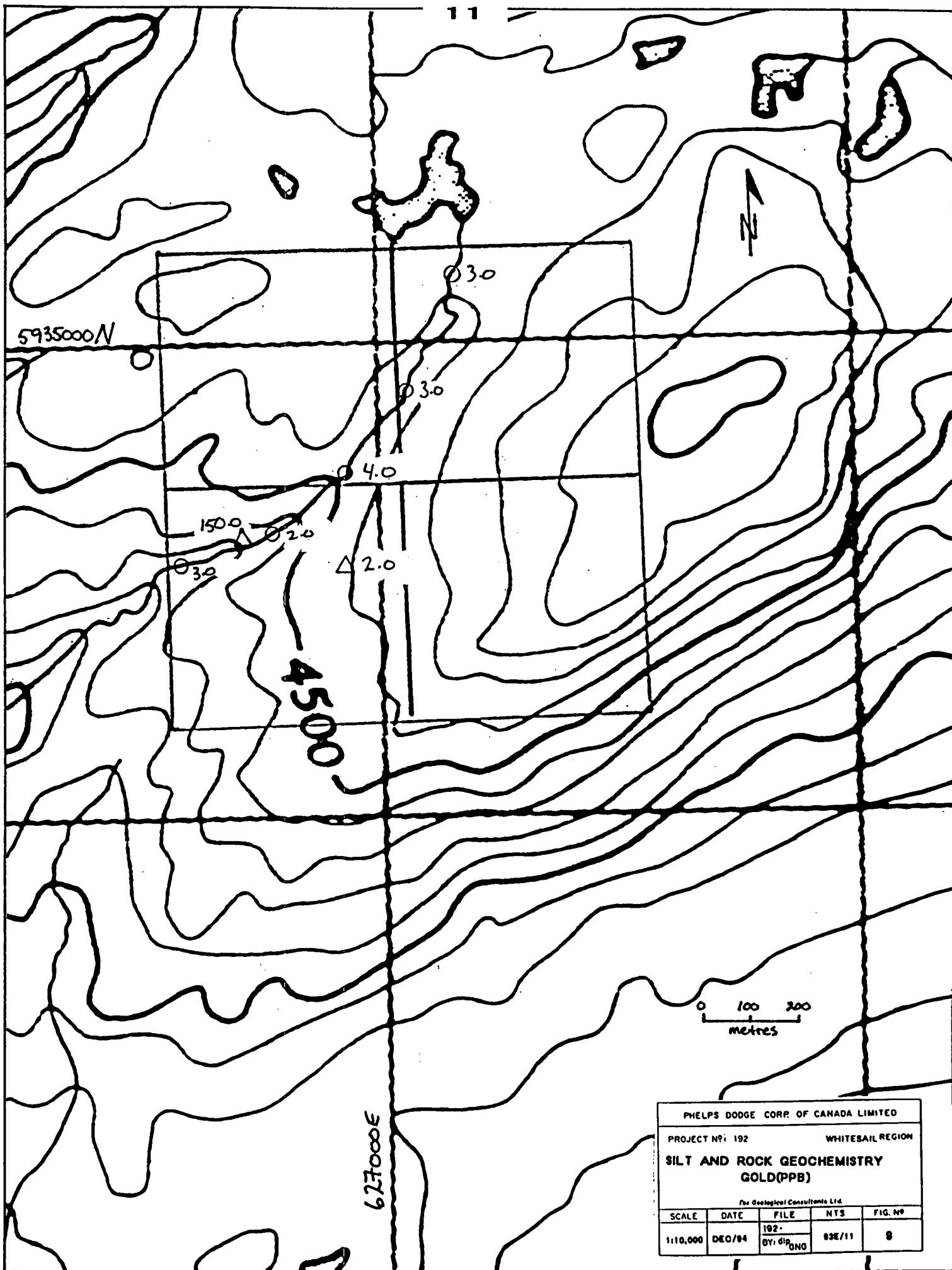
0.1

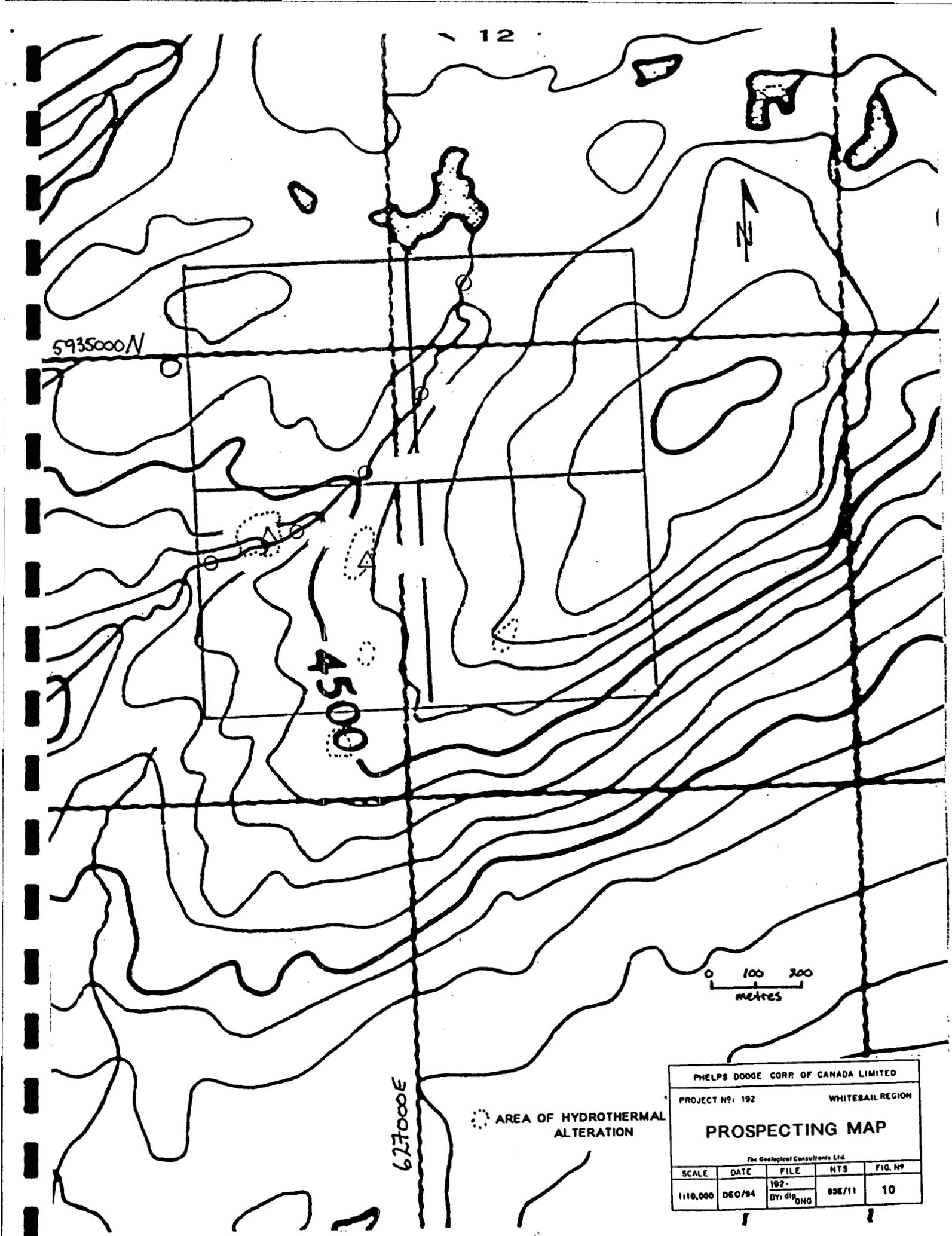
500

0 100 200
metres

627000E

PHelps Dodge CORP OF CANADA LIMITED					
PROJECT N9: 192			WHITEBAK REGION		
SILT AND ROCK GEOCHEMISTRY SILVER(PPM)					
SCALE	DATE	FILE	NTS	FIG. NO	
1:10,000	DEC/84	192- BYI dip GNO	83E/11	8	





DISBURSEMENTS

Laboratory		
5 silt samples X \$11.50		57.50
2 rock samples X \$11.25		22.50
Labour		
Geoff Goodall geologist 1 days X \$295.00		295.00
Rick Ryan, sampler 1 days X \$225.00		225.00
Air Charter Helicopter		
1.2 hours X \$750.00/hour		<u>900.00</u>
Total Disbursements		\$1,500.00

Prepared by:

FOX GEOLOGICAL CONSULTANTS LTD.



Geoffrey N. Goodall, B.Sc., P. Geo.
December 22, 1994

REPORT DISTRIBUTION:

Phelps Dodge, Toronto Land File	1
Phelps Dodge, Vancouver	2
B.C. Mining Recorder	2

CERTIFICATE

I, Geoffrey N. Goodall, of the District of North Vancouver, British Columbia, do hereby certify that:

1. I am a Professional Geoscientist registered in the Association of Professional Engineers and Geoscientists of the Province of British Columbia.
2. I graduated from the University of British Columbia in 1984 with a Bachelor of Science degree in geology.
3. I have been practising my profession as a geologist since graduation.
4. I am a Fellow of the Geological Association of Canada.



Geoffrey N. Goodall, B.Sc., P. Geo.
Vancouver, B.C.
December 22, 1994

APPENDIX I**Sample Data**

*Phelps Dodge Corporation of Canada, Limited # 1409-409 Granville Street, Vancouver, BC V6C 1T8
Telephone (604) 669-2954 Fax (604) 681-3920*

12/23/94

PROJECT 192
WHITESAIL RECCE

Sample	Property	Type	Remarks	Grid	North	East	Mo	Cu	Pb	Zn	Ag	Fe	As	Sb	Au	Hg
42209	WHITESAIL RECCE	GRAB	GREEN-GRAY PYRITIC DACITE PORPHYRY	5934600	626900	2	31	6	68	0.1	4.15	17	2	2.0		
42210	WHITESAIL RECCE	GRAB	MAROON-GREEN FRACTURED RHYOLITE	5934520	626580	7	26	16	51	0.2	4.59	263	2	150.0		
2 GRAB SAMPLES																
41742	WHITESAIL RECCE	SILT	MAIN TRIBUTARY OF TROITSA CREEK	5935430	626290	1	74	16	96	0.3	5.79	18	2	2.0	10	
41743	WHITESAIL RECCE	SILT	TAKEN 500M DOWNSTREAM FROM 41742	5935205	625910	1	77	16	97	0.5	6.25	16	2	3.0	10	
42206	WHITESAIL RECCE	SILT	CREEK DRAINING SW INTO TROITSA CREEK	5934750	626910	3	49	18	91	2.3	5.00	22	2	3.0	45	
42207	WHITESAIL RECCE	SILT	CREEK DRAINING SW INTO TROITSA CREEK	5934300	626300	1	67	10	76	0.1	5.73	21	2	3.0	5	
42208	WHITESAIL RECCE	SILT	CREEK DRAINING SW INTO TROITSA CREEK	5933800	625490	1	69	13	78	0.3	5.35	12	2	4.0	5	
5 SILT SAMPLES																
7 SAMPLES																
7 TOTAL SAMPLES																

A P P E N D I X II**Analytical Results**

Phelps Dodge Corp. PROJECT 192 FILE # 94-2356 Page

SAMPLE#	No	Cu	Pb	Zn	Ag	Wt	Co	Mn	Po	Ao	U	Au	Th	Sr	Cd	Sb	Bi	V	Co	P	La	Cr	Hg	Ba	Tl	B	Al	Mo	K	V	Au ^a	Hg		
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm							
41742	1	76	16	98	.3	18	19	1583	5.79	18	45	<2	<2	71	.5	<2	6	100	.71	.117	.16	16.55	407	.02	<2	1.37	.01	.10	<1	2	10			
41743	1	77	16	97	.3	17	19	1503	6.23	16	45	<2	<2	68	.6	<2	3	113	.69	.118	.14	18.61	386	.02	<2	1.48	.01	.09	<1	3	10			

Phelps Dodge Corp. PROJECT 192 FILE # 94-2356

Page 5

SAMPLE#	No	Cu	Pb	Zn	Ag	Wt	Co	Mn	Po	Ao	U	Au	Th	Sr	Cd	Sb	Bi	V	Co	P	La	Cr	Hg	Ba	Tl	B	Al	Mo	K	V	Au ^a	Hg		
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm							
42204	2	38	22	97	.2	29	17	2073	4.31	21	<5	<2	<2	25	<2	<2	<2	65	.32	.061	11	28	.81	123	.03	<2	2.12	.02	.08	<1	2	25		
42205	2	73	23	113	.3	35	19	3200	6.14	18	<5	<2	<2	73	<2	<2	<2	3	.53	.058	11	35	.98	349	.05	2	2.46	.02	.03	<1	2	30		
42206	3	49	18	99	2.3	19	13	2055	3.00	22	<5	<2	<2	36	<2	<2	<2	87	.59	.104	18	18	.70	158	.07	<2	1.84	.01	.08	<1	3	65		
42207	<1	67	10	76	.1	22	16	1234	5.73	21	<5	<2	<2	62	<2	<2	<2	71	.73	.136	20	17	1.04	130	.01	<2	2.60	.01	.08	<1	3	5		
42208	<1	69	13	78	.3	19	18	1319	5.35	12	<5	<2	<2	39	<2	<2	<2	63	.66	.102	13	16	.93	226	.01	<2	2.11	.01	.10	<1	4	5		

ACROS ANALYTICAL LABORATORIES LTD. 18923 40TH STREET, VANCOUVER, BC V6B 5R6, CANADA 604/257-1555 FAX 604/257-6045																																		
GEOCHEMICAL ANALYSIS CERTIFICATE																																		
Phelps Dodge Corp. Project 192																																		
SAMPLE#	No	Cu	Pb	Zn	Ag	Wt	Co	Mn	Po	Ao	U	Au	Th	Sr	Cd	Sb	Bi	V	Co	P	La	Cr	Hg	Ba	Tl	B	Al	Mo	K	V	Au ^a	Hg		
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
42209	2	31	6	68	<.1	26	14	1073	4.13	17	<5	<2	<2	39	<2	<2	2	49	.88	.090	12	19	.74	34	.12	2	1.91	.03	.16	<1	2			
42210	7	26	16	51	.2	26	10	326	4.59	263	<5	<2	<2	9	<2	<2	2	62	.37	.110	6	18	.76	65	.18	2	1.62	.01	.17	<1	150			
42223	1	17	13	56	<.1	22	13	463	3.88	9	<5	<2	<2	17	<2	<2	2	34	.30	.077	30	12	.86	39	.09	<2	1.37	.03	.19	<1	8			
42226	2	20	4	42	<.1	12	10	319	3.37	12	<5	<2	<2	16	<2	<2	3	42	.16	.067	21	7	.56	50	.01	2	.89	.02	.23	<1	3			
42350	3	7	41	6	.6	3	1	21	3.56	68	<5	<2	<2	41	<2	<2	17	42	6	.03	.013	6	3	.04	28	.01	2	.34	.01	.40	<1	3		
RE 42350	3	6	45	6	.6	6	1	21	3.67	71	<5	<2	<2	42	<2	<2	18	42	6	.03	.013	6	4	.04	30	.01	2	.36	.01	.41	<1	3		
42323	1	20	11	87	<.1	20	17	759	4.26	24	<5	<2	<2	20	<2	<2	2	63	2.98	.042	10	11	.76	46	.01	2	.97	.05	.18	<1	3			
42326	<1	6	2	22	.1	7	5	1411	1.39	5	<5	<2	<2	225	<2	<2	2	42	8	18.96	.016	10	3	.31	19	<.01	<2	.16	.01	.03	<1	5		
42323	10	35	6	52	.9	10	14	851	0.93	42	<5	<2	<2	138	<2	<2	2	42	80	4.27	.078	7	6	2.66	105	<.01	<2	1.99	.02	.13	<1	4		
42326	12	7	14	40	.2	7	2	141	1.18	16	<6	<2	<2	13	<2	<2	3	42	2	.20	.016	27	7	.04	25	<.01	<2	.21	.01	.13	<1	3		
42327	2	21	19	122	10.6	7	12	846	5.34	21	<5	<2	<2	29	<2	<2	2	34	2.33	.079	6	7	.26	7	<.01	<2	.43	.03	.41	<1	7			
STANDARD C/AU-R	19	57	37	123	6.6	73	32	1049	3.96	42	16	6	36	51	19.0	16	21	60	.51	.090	60	57	.92	187	.08	33	1.88	.03	.15	10	460			

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCl-HNO₃-H₂O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.

THIS LEACH IS PARTIAL FOR Mn Fe Sr Ca P La Cr Ba Ti B V AND LIMITED FOR Na K AND Al.

ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF Cu Po Zn As > 1%, Ag > 30 PPM & Au > 1000 PPM

* SAMPLE TYPE: ROCK Au^a ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 2 1996 DATE REPORT MAILED: Aug 8/96

SIGNED BY: C. Joye, C. Leong, J. Huang; CERTIFIED D.C. ASSAYERS