

COMINCO LTD.

EXPLORATION

WESTERN CANADA

NTS: 93A/14

LOG NO: 11 01	RD.
ACTION:	
FILE NO:	

ASSESSMENT REPORT

CUNNING PROPERTY

CUNNING 1-2 MINERAL CLAIMS

CARIBOO MINING DIVISION

LATITUDE: 121°17'

LONGITUDE: 52°59'

OWNER/OPERATOR:

COMINCO LTD.
 700-409 GRANVILLE STREET
 VANCOUVER, B.C.
 V6C 1T2

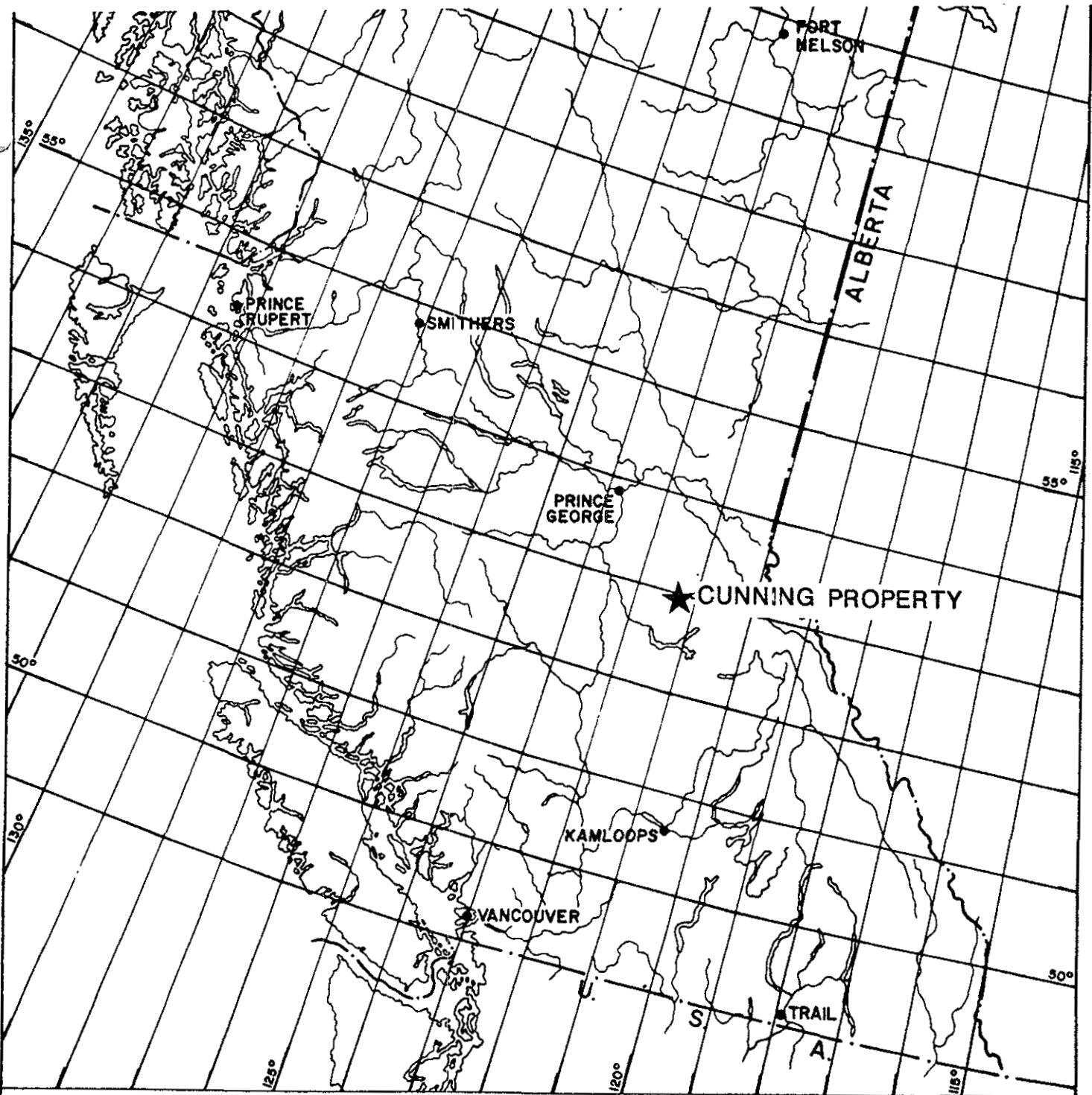
SEC-RECEIVED
 OCT 25 1990
 M.R. # _____
 VANCOUVER, B.C.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,396

OCTOBER, 1990

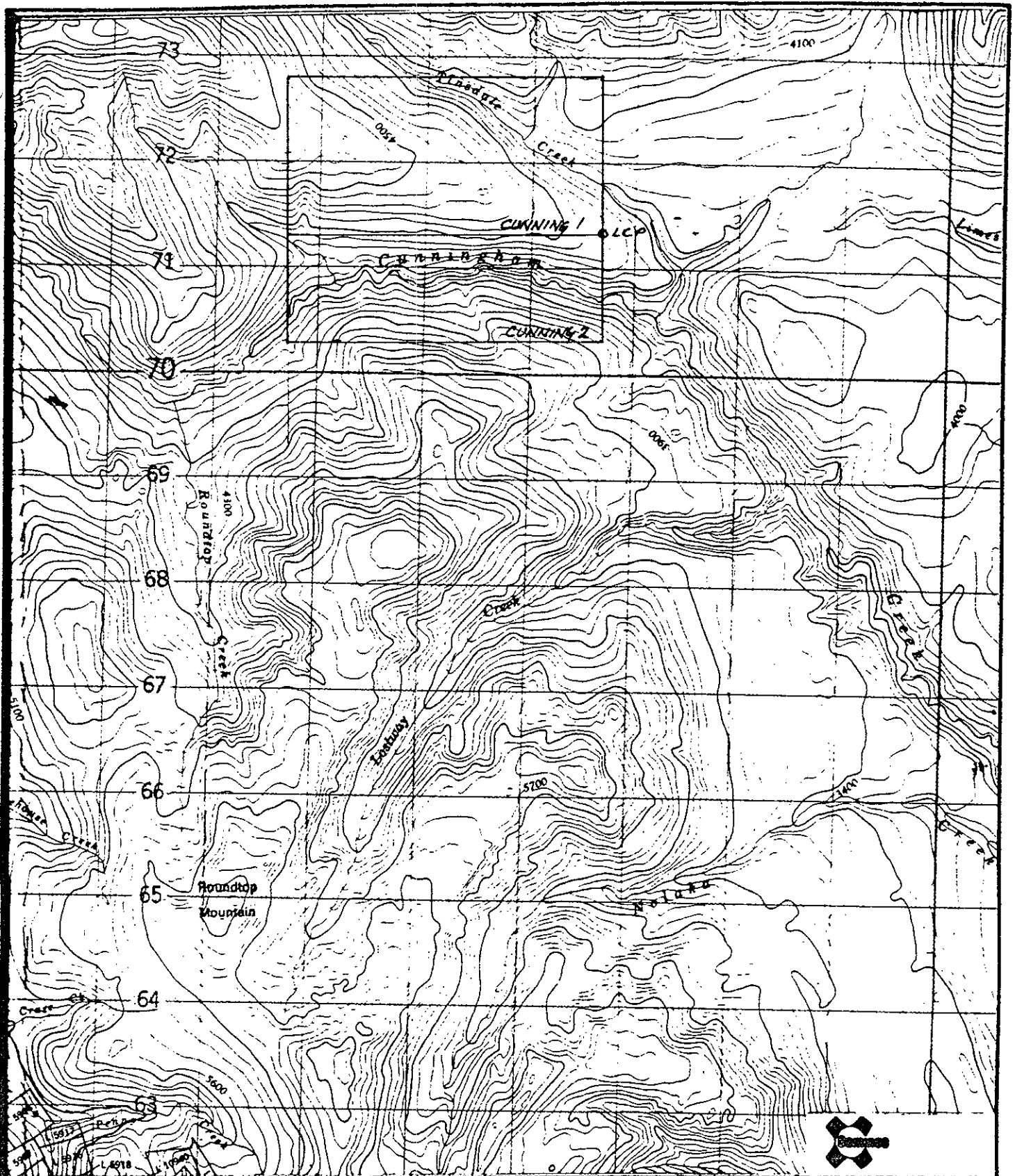
DUNHAM L. CRAIG



Drawn by:		Traced by: a. n. b.	
Revised by	Date	Revised by	Date

CUNNING PROPERTY LOCATION MAP

Scale: 1 : 6,370,000 Date: OCT. 1990 Plate: 90-1



Drawn by: DLC		Traced by:	
Revised by	Date	Revised by	Date

CUNNING PROPERTY CLAIM MAP

Scale: 1:50000

Date: OCT 1990

Plate: 90-2

ASSESSMENT REPORT

CUNNING PROPERTY

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ATTACHMENTS:

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Plate 90-1	Location Map	1:6,370,000
90-2	Property Map	1:50,000
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COMINCO LTD.

EXPLORATION
NTS 93 A/14WESTERN CANADA
OCT., 1990CUNNING PROPERTY
ASSESSMENT REPORT
GEOLOGICAL AND GEOCHEMICAL REPORT

INTRODUCTION:

The Cunning claims were staked on May 24, 1990 in response to anomalous Pb and Zn soil contour samples taken during Cominco's 1989 Cariboo reconnaissance program. Several samples at 100 meter spacing were >100 ppm Pb and >250 ppm Zn with one sample yielding 1930 ppm Pb, 14700 ppm Zn. Results warranted a small scale soil grid and prospecting to define the size and nature of the anomaly.

This report describes the work performed on the property from June 6 - 11, 1990.

LOCATION AND ACCESS:

The property is located 26 km south east of the town of Wells, B.C. on Cunningham Creek. Access is provided by Weldwood's 3100 logging road which bisects the property.

PHYSIOGRAPHY:

The property is forest covered with mature stands of spruce, pines and hemlock. Underbrush is moderate and outcrop is scarce with the best exposure on the ridge and road cuts. Slopes are moderate, ranging from 10 to 35 degrees. Elevation is from 3500 feet in the creek to 4700 feet on the ridge.

CLAIM STATUS:

The property consists of two modified grid claims totalling 30 units 100% owned by Cominco Ltd. Upon acceptance of this assessment report the claims will be in good standing until the expiry date below.

Name	Record#	Record Date	Units	Expiry Date
Cunning 1	10580	May 27, 1990	18	May 27, 1994
Cunning 2	10581	May 27, 1990	12	May 27, 1994

PREVIOUS WORK:

Regional mapping has been completed in the area on a 1:50000 scale by the G.S.C. and is published as Memoir 421. Cunningham Creek currently has numerous placer claims placed from the property to Wells. The property has had no previous mineral work performed prior to the claim staking other than reconnaissance work by Cominco Ltd.

REGIONAL GEOLOGY:

The property is underlain by rocks of the Cariboo Terrane which

extends south of the property to Azure Lake, east to the Rocky mountains and north to Macleod Lake. The sequence of rocks ranges from Upper Hadrynian to Middle Pennsylvanian and consists of primarily clastic rocks. They may be divided into two successions; Hadrynian-Cambrian and Ordovician-Pennsylvanian separated by an Ordovician unconformity. The stratigraphic sequence is displayed in Table 1:

Table 1. Table of formations for the Cariboo Terrane.

PALEOZOIC	PENNSYLVANIAN	(0-8 m)	Grey crinoid limestone
			Disconformity
	MIDDLE PENNSYLVANIAN	ALEX ALLAN FORMATION (0-5 m)	Dark grey micritic limestone, minor slate
			Disconformity
	LOWER MISSISSIPPIAN	GREENBERRY FORMATION (0-30 m)	Grey crinoid limestone
			Conformity
	LOWER MISSISSIPPIAN AND UPPER DEVONIAN	GUYET FORMATION (0-300 m)	Conglomerate, orthoquartzite, greywacke
			Disconformity?
	MIDDLE DEVONIAN OR UPPER DEVONIAN	WAVERLY FORMATION (0-50 m)	Agglomerate, pyroclastic, pillow basalt, minor chloritic siltstone
			Interdigitating contact
	MISSISSIPPIAN OR YOUNGER	Sandstone unit (07-50 m)	Olive grey micaceous and white quartzite, black and pink chert
			Conformity
	DEVONIAN AND (?) YOUNGER	Black pelite unit (300-400 m)	Dark grey and black slate, phyllite, argillite, siltite, dolostone and limestone
			Conformity?
LOWER DEVONIAN AND UPPER SILURIAN	Chert-carbonate unit (0-80 m)	Mottled chert breccia, grey dolostone breccia, light grey dolostone chert	
		Disconformity?	
UPPER ORDOVICIAN	Black pelite unit (0-50 m?)	Dark grey slate and minor siltstone	
		Unconformity	
LOWER TO (?) UPPER CAMBRIAN	DOME CREEK FORMATION (0-50 m)	Dark grey slate, shale and minor grey limestone	
		Conformity	
LOWER CAMBRIAN	MURAL FORMATION (50-500 m)	Grey limestone, dolostone, fine marble	
		Conformity	
PALEOZOIC AND PROTEROZOIC	LOWER CAMBRIAN AND HADRYNIAN	MIDAS FORMATION (40-250 m)	Grey shale, slate, phyllite and micaceous quartzite, dark grey siltite
		Conformity	
		YANBIS PEAK FORMATION (0-200 m)	Dark grey to white quartzite, minor shale and granule quartzite
		Gradational contact	
		YANKEE BELLE FORMATION (170-1000 m)	Green-grey micaceous quartzite, siltite, grey-green shale, slate and phyllite, limestone and sandy limestone
		Gradational contact	
		CUNNINGHAM FORMATION (400-650 m)	Limestone, dolostone, fine grained marble
		Gradational contact	
PROTEROZOIC	HADRYNIAN (WINDERMERE)	ISAAC FORMATION (0-1200 m)	Dark grey to black phyllite, slate, limestone and minor calcareous sandstone
		Gradational contact	
	HADRYNIAN	BASE NOT EXPOSED	Micaceous poorly sorted feldspathic quartzite, grey-green and grey phyllite, limestone

SAC mem 421

GSC

PROPERTY GEOLOGY: (Plate 90-3)

Property rocks consist of Cambrian Mural and Dome Creek Formations of the Cariboo Group and Ordovician grey/black pelites of the Black Stuart Group. Northwest trending stratigraphy is best displayed in the road cuts of the 3100 Weldwood logging road that bisects the property. White quartzite outcrops at location 10900 N., 9500 E. which may be correlatable to the Sandstone unit of the Black Stuart Group. The Waverly formation is mapped by Struik as trending through the middle of the grid. This is an extension of outcrop found in the creek. The Waverly Formation was not found in outcrop during 1990 grid work and as such is not mapped on the property. One day was spent mapping on the property.

Mineralization:

Mineralization occurs in two locations on the Cunning claims. Black shale hosted Pb/Zn mineralization occurs in outcrop along side of the road (Plate 90-4, Sample # C-6) in a thin hydrozincite stained black carbonaceous mudstone parallel to bedding grading 6570 ppm Pb, 3720 ppm Zn / .3 meter.

Massive galena float boulders were found by hand trenching at soil sample location 88307 (See Plate 90-4, inset) Float sample numbers CUN 1-3 assay :

	<u>Pb%</u>	<u>Zn%</u>	<u>Ag (ppm)</u>
CUN 1	66.5	4.62	45.8
CUN 2	66.87	4.75	39.8
CUN 3	61.43	8.05	40.8

Further rock sample descriptions are included in Appendix E (Rock geochemistry).

Lead isotope age dating was performed by Colin Godwin at UBC on samples CUN 1 & CUN 2. Results plot on Godwin's shale curve and pericratonic curve as Cambrian age. Results are enclosed in Appendix E.

GEOCHEMISTRY:

361 soil/silt samples and 11 rock samples were taken on the property during 1990. Samples were digested using Aqua Regia decomposition and analyzed by sequential ICP.

2.8 kilometres of baseline was chain and compass surveyed with pickets placed at 100 meter stations. Samples were taken at 25 meter intervals along 100 meter crosslines. Samples were dried, sieved to -80 mesh and analyzed for Pb, Zn, Cu, Ag, Cd, Fe, Ni, Co & As.

Geochemical Results:


Grid lead soil geochemistry displays scattered values of low intensity with 5 samples of greater than 100 ppm (Plate 90-5). Grid zinc soil geochemistry displays similar scattered values with a slight dispersion trend in the small drainage below the

1930 ppm Pb, 14700 ppm Zn sample depicted in the inset (Plate 90-6). The samples in the inset show a tight grouping of high Pb and Zn soil samples 30m x 45 meters. Hand trenching in this area produced float boulders assaying \pm 60% Pb, \pm 5% Zn, \pm 1.2 oz/t Ag.


CONCLUSIONS AND RECOMMENDATIONS:

Pb isotope data conclude lead mineralization occurred during the Cambro-Ordovician time horizon. Host rock is mapped as Ordovician Black Stuart but may be a deeper basinal facies of the Cambrian Dome Creek Formation. A 30m x 45 soil geochemistry anomaly exists with high grade galena float found in the soils and chloritic schist float with 5238 ppm Pb, 4747 ppm Zn found adjacent. Three possibilities exist; a float boulder has been glacially rafted to the site, a Cambro-Ord vein system is present (although locally none are known) or erosion has exposed the edge of a stratabound Cambro-Ordovician mineral showing.

Trenching is recommended to determine the source of the anomaly.

Submitted by: 

Dunham L. Craig
Geologist

Approved for
release by: 

W.J. Wolfe
Manager, Exploration
Western District

APPENDIX "A"

STATEMENT OF EXPENDITURES

CUNNING CLAIMS

JUNE 6-11, 1990

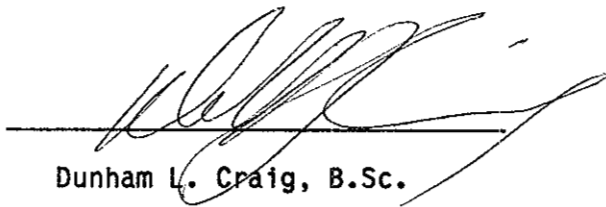
Salaries:			
D. Craig	6 days @ \$203.16/day	\$1,219	
G. Galbraith	6 days @ \$115/day	690	
D. Jones	6 days @ \$115/day	690	
B. Topping	6 days @ \$150/day	<u>750</u>	\$3,349
Geochemistry:			
361 soil samples @ \$8.04/sample		\$2,904.50	
11 rock samples @ \$11.50/sample		<u>126.50</u>	\$3,031
Geological Equipment			\$ 300
Transportation:			
4 wheel drive (6 days x \$45/day x 2)		\$ 540	
fuel		<u>240</u>	\$ 780
Domicile/Expense Account			\$2,336
Drafting			\$ 636
Report Writing 2.5 days @ \$206/day			<u>\$ 515</u>
TOTAL EXPENDITURES			\$11,010

APPENDIX "B"

I, Dunham L. Craig of the City of Richmond, British Columbia, hereby certify:

- ° THAT I am employed in British Columbia, with a business address at 700-409 Granville Street, Vancouver, B.C., V6C 1T2.
- ° THAT I graduated with a B.Sc. in Geology from the University of British Columbia in 1988.
- ° THAT I am a member of the Association of Exploration Geochemists.
- ° THAT I have practiced geology with Cominco Ltd. from 1988 to the present.

Dated this 16th day of October, 1990 at Vancouver, B.C.


Dunham L. Craig, B.Sc.

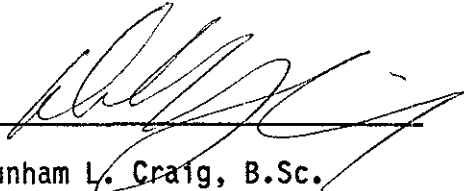
APPENDIX "C"

IN THE MATTER OF THE B.C. MINERAL ACT AND IN THE MATTER OF GEOCHEMICAL AND GEOLOGICAL MAPPING CARRIED OUT ON THE CUNNING CLAIMS LOCATED IN THE CARIBOO MINING DISTRICT OF THE PROVINCE OF BRITISH COLUMBIA.

AFFIDAVIT

I, Dunham L. Craig, of the City of Richmond, in the province of British Columbia make oath and say:

1. THAT I am employed as an Assistant Geologist by Cominco Ltd. and as such have a personal knowledge of the facts to which I hereinafter depose.
2. THAT annexed hereto and marked as "Appendix "A" to this report is a true copy of expenditure of a geochemical and geological program carried out on the Cunning claims.
3. THAT the said expenditures incurred between the 6th day of June and the 11th day of June, 1990 for the purpose of mineral exploration on the above noted property.


Dunham L. Craig, B.Sc.

APPENDIX "D"
SOIL GEOCHEMISTRY

CUNNING-WD

JOB V90-170S

LAB NUMBER	FIELD NO	EAST	NORTH	Pb ppm	Zn ppm	Cu ppm	Ag ppm	Cd ppm	Fe %	Ni ppm	Co ppm	As ppm
S9007424	4670			10	162	49	.9	2	3.22	29	11	10
S9007423	4669			17	196	50	1	2	3.8	51	16	11
S9007422	4668			15	147	29	<.4	1	3.99	29	10	4
S9007421	4667			19	344	66	1.3	4	4.54	62	15	10
S9007426	4672			14	189	56	.5	2	3.23	43	15	10
S9007425	4671			10	108	33	.5	2	2.58	20	6	12
S9007427	4673			11	120	30	<.4	1	3.51	28	9	9
S9007431	4677			14	158	30	.5	1	3.38	29	8	3
S9007429	4675			11	115	40	<.4	2	2.53	27	10	2
S9007430	4676			8	153	34	<.4	2	3.91	57	18	11
S9007428	4674			12	137	35	.5	1	4.07	26	9	7
S9007348	130431	+0	+3900	40	374	62	.6	2	3.98	34	16	24
S9007349	130432	+25	+3900	22	356	79	1.8	2	4.42	65	22	5
S9007350	130433	+50	+3900	9	97	25	<.4	<1	1.82	3	4	6
S9007351	130434	+75	+3900	6	102	19	<.4	<1	2.68	10	7	10
S9007352	130435	+100	+3900	10	131	30	.9	<1	3.07	12	9	9
S9007353	130436	+125	+3900	13	198	47	<.4	1	3.8	24	13	13
S9007354	130437	+150	+3900	12	202	37	<.4	1	3.63	21	13	15
S9007355	130438	+175	+3900	11	167	44	<.4	1	3.64	27	15	17
S9007356	130439	+200	+3900	13	216	96	.8	1	3.48	45	13	26
S9007357	130440	+225	+3900	11	99	37	1.6	1	2.44	11	7	6
S9007358	130441	+250	+3900	9	143	28	.8	2	4.53	11	10	8
S9007359	130442	+275	+3900	11	77	23	.7	1	1.53	1	5	4
S9007360	130443	+300	+3900	15	143	30	<.4	1	3.32	14	10	9
S9007361	130444	+325	+3900	9	138	26	<.4	1	4.01	16	10	7
S9007362	130445	+350	+3900	14	202	55	.7	1	4.22	36	18	12
S9007363	130446	+375	+3900	17	220	68	.5	1	6.23	28	16	11
S9007364	130447	+400	+3900	12	121	37	1.2	2	4.61	9	9	6
S9007365	130448	+425	+3900	13	221	72	1.3	3	5.15	24	16	12
S9007366	130449	+450	+3900	20	338	103	1.7	4	6.71	65	24	13
S9007367	130450	+475	+3900	18	228	73	<.4	1	6.79	31	18	15

S9007345	130489	+1450	+3900	12	195	21	.7	<1	4.1	14	11	6
S9007346	130490	+1475	+3900	20	251	76	.9	1	4.35	52	21	13
S9007347	130491	+1500	+3900	11	168	41	1.5	1	3.28	21	11	13
S9007511	130306	+50	+10500	33	151	30	.6	1	4.86	11	3	15
S9007512	130307	+100	+10500	26	230	25	<.4	1	3.87	17	4	10
S9007513	130308	+150	+10500	21	109	27	.5	1	6.64	4	1	28
S9007514	130309	+200	+10500	28	121	23	3.8	1	4.52	14	3	31
S9007515	130310	+250	+10500	10	206	42	1.2	1	5.35	28	9	6
S9007516	130311	+300	+10500	8	170	39	.5	1	3.51	27	7	12
S9007517	130312	+350	+10500	13	121	13	<.4	2	1.47	7	<1	10
S9007518	130379	+400	+10500	<4	229	55	<.4	1	3.75	11	9	15
S9007519	130380	+450	+10500	13	175	41	.6	1	5.2	18	6	17
S9007520	130381	+500	+10500			2	1	1.	3.78	55	22	23
S9007521	130332	+550	+10500	7	114	36	<.4	1	5.17	27	12	5
S9007522	130333	+600	+10500	7	144	27	.5	1	4.82	25	13	7
S9007523	130334	+650	+10500	7	156	25	.5	<1	5.03	22	7	5
S9007524	130150	+700	+10500	37	321	68	1.6	5	3.89	34	8	13
S9007483	130331	+9500	+10500	8	77	16	.6	<1	.96	5	<1	6
S9007484	130330	+9525	+10500	<4	91	21	.5	<1	1.36	7	2	12
S9007485	130329	+9550	+10500	16	137	22	3.3	2	1.57	12	2	10
S9007486	130328	+9575	+10500	32	239	63	1.6	3	2.77	71	19	69
S9007487	130327	+9600	+10500	34	112	17	.9	<1	2.11	6	<1	28
S9007488	130326	+9614	+10500	43	1120	81	1.4	11	2.1	50	9	10
S9007489	130325	+9625	+10500	32	297	121	1.6	1	3.82	36	8	47
S9007490	130149	+9650	+10500	21	196	31	.9	1	3.39	13	3	16
S9007491	130148	+9675	+10500	17	98	17	1.4	1	2.69	13	2	<2
S9007492	130147	+9700	+10500	13	133	30	1	1	3.41	15	6	6
S9007493	130146	+9725	+10500	17	137	25	.9	1	5.18	19	7	6
S9007494	130145	+9750	+10500	11	149	19	.7	<1	4.24	19	6	7
S9007495	130144	+9775	+10500	13	170	44	.5	1	3.52	36	13	5
S9007496	130143	+9800	+10500	28	151	32	.5	1	4.58	25	6	9
S9007497	130142	+9825	+10500	13	156	26	.5	1	4.39	16	7	9
S9007498	130141	+9850	+10500	15	112	24	<.4	1	4.5	10	4	10
S9007499	130140	+9875	+10500	12	76	17	.7	<1	3.56	7	3	3
S9007500	130139	+9900	+10500	14	127	22	.4	1	4.05	13	7	8
S9007501	130138	+9925	+10500	19	101	17	.9	<1	6.04	6	3	21
S9007502	130137	+9950	+10500	40	117	32	.7	1	3.33	10	3	32
S9007503	130136	+9975	+10500	9	140	25	.4	1	3.6	16	4	5
S9007504	130135	+10000	+10500	12	108	28	.8	1	3.07	14	5	13

S9007505	130134	+10025	+10500	8	187	34	.6	1	4.53	31	8	8
S9007506	130133	+10050	+10500	8	217	29	.5	1	3.05	19	9	9
S9007507	130132	+10075	+10500	11	144	19	.4	1	3.85	13	6	7
S9007508	130131	+10100	+10500	15	82	27	2.6	<1	3.73	7	2	5
S9007509	130130	+10125	+10500	12	111	21	1	<1	2.68	15	6	<2
S9007510	130129	+10150	+10500	9	104	25	.9	<1	2.91	14	4	4
S9007301	130117	+25	+10600	16	208	25	.8	<1	5.26	22	9	6
S9007302	130118	+50	+10600	83	105	17	1.2	<1	4.73	10	6	12
S9007303	130119	+75	+10600	13	77	15	.4	<1	1.94	8	4	6
S9007304	130120	+100	+10600	27	102	51	1.8	<1	9.07	14	4	29
S9007305	130121	+125	+10600	11	72	19	1.7	<1	2.83	7	3	11
S9007306	130122	+150	+10600	11	112	29	.8	<1	2.98	4	4	8
S9007300	130378	+9500	+10600	53	240	25	.5	<1	4.54	29	8	12
S9007299	130377	+9525	+10600	13	140	19	.4	<1	2.83	11	5	7
S9007298	130376	+9550	+10600	16	131	15	.5	<1	1.72	9	4	8
S9007297	130375	+9575	+10600	17	172	18	.6	<1	4.11	20	7	12
S9007296	130374	+9600	+10600	27	194	21	1.1	<1	3.8	17	4	14
S9007295	130373	+9625	+10600	57	320	55	1.5	1	5.41	27	9	45
S9007294	130372	+9650	+10600	124	298	28	1.5	1	3.92	23	8	30
S9007293	130371	+9675	+10600	21	216	29	.4	1	4.31	30	8	12
S9007292	130370	+9700	+10600	16	154	25	.4	1	4.38	30	8	10
S9007291	130369	+9725	+10600	29	549	88	1.2	2	4.55	77	20	28
S9007290	130368	+9750	+10600	37	262	57	.8	1	5.37	42	38	30
S9007289	130367	+9775	+10600	16	137	24	<.4	<1	4.05	22	6	9
S9007288	130366	+9800	+10600	18	198	48	.5	1	4.86	49	13	13
S9007287	130365	+9825	+10600	18	105	15	.8	1	3.95	14	3	8
S9007286	130364	+9850	+10600	13	135	24	1.1	<1	4.35	27	8	<2
S9007285	130363	+9875	+10600	15	140	21	1.2	1	5.85	20	5	7
S9007284	130362	+9900	+10600	12	93	15	1.1	<1	3.58	13	4	7
S9007283	130361	+9925	+10600	13	526	26	.9	2	3.13	33	12	7
S9007282	130360	+9950	+10600	14	180	31	.6	1	4.26	31	9	9
S9007281	130359	+9975	+10600	15	170	24	.5	1	3.38	21	6	<2
S9007280	130108	+10000	+10600	14	71	12	<.4	<1	2.98	4	7	4
S9007279	130109	+10025	+10600	24	117	30	1	<1	5.73	13	9	11
S9007278	130110	+10050	+10600	18	128	30	1	<1	2.51	14	14	8
S9007277	130111	+10075	+10600	18	113	24	.7	<1	4.28	11	9	11
S9007276	130112	+10100	+10600	28	80	16	.7	<1	4.74	8	8	12
S9007275	130113	+10125	+10600	16	152	37	.8	<1	3.79	30	10	6
S9007274	130114	+10150	+10600	13	100	26	.5	<1	2.49	17	14	7

S9007273	130115	+10175	+10600	16	137	24	.9	1	4.03	15	11	7
S9007272	130116	+10200	+10600	9	363	29	1.2	1	2.63	24	32	3
S9007420	130295	+9500	+10700	26	197	26	.5	1	2.46	17	4	14
S9007419	130294	+9525	+10700	12	174	27	.8	2	4.45	22	11	6
S9007418	130293	+9550	+10700	15	131	41	.8	2	2.46	18	7	12
S9007417	130292	+9575	+10700	22	524	35	.8	3	4.16	46	12	19
S9007416	130291	+9600	+10700	21	890	49	.9	6	3.88	53	12	13
S9007415	130290	+9625	+10700	17	143	29	<.4	1	2.34	18	6	5
S9007414	130289	+9650	+10700	15	426	37	<.4	2	4.25	36	8	18
S9007413	130288	+9675	+10700	12	375	47	1	3	4.29	43	17	27
S9007412	130287	+9700	+10700	19	157	38	<.4	1	3.69	36	12	12
S9007411	130286	+9725	+10700	19	184	38	.6	1	3.84	36	9	11
S9007410	130285	+9750	+10700	19	196	40	.5	1	4.16	41	15	13
S9007409	130284	+9775	+10700	22	174	32	.8	2	3.29	30	9	14
S9007408	130283	+9800	+10700	23	1101	83	1.4	9	4.15	71	18	12
S9007407	130282	+9825	+10700	21	274	45	.6	1	3.97	30	10	12
S9007406	130281	+9850	+10700	16	254	36	1.6	6	2.63	26	10	8
S9007405	130280	+9875	+10700	18	110	23	.5	1	3.18	21	6	7
S9007404	130279	+9900	+10700	17	125	26	1.1	1	3.76	16	7	7
S9007403	130278	+9925	+10700	10	61	16	.5	1	1.08	4	1	2
S9007402	130277	+9950	+10700	24	223	62	1.6	3	4.08	53	22	16
S9007401	130276	+9975	+10700	18	128	28	.7	1	3.82	24	6	12
S9007400	130051	+10000	+10700	7	47	9	<.4	<1	.58	3	2	<2
S9007399	130052	+10025	+10700	9	63	9	.4	1	1.21	6	2	5
S9007398	130053	+10050	+10700	20	76	18	.6	<1	4.54	12	3	12
S9007397	130054	+10075	+10700	19	87	24	.7	1	4.52	13	3	15
S9007396	130055	+10100	+10700	11	66	18	<.4	1	.76	4	2	<2
S9007395	130056	+10125	+10700	13	198	28	.7	1	3.91	27	13	6
S9007394	130057	+10150	+10700	15	87	25	.7	1	1.72	14	10	4
S9007393	130058	+10175	+10700	16	78	34	<.4	1	1.64	8	3	6
S9007606	130430	+9500	+10800	19	203	38	.5	2	5.29	25	12	10
S9007605	130429	+9525	+10800	18	188	32	.5	2	4.66	13	8	20
S9007604	130428	+9550	+10800	45	296	45	1.2	4	1.8	13	5	24
S9007603	130427	+9575	+10800	16	214	30	.5	2	3.76	18	10	5
S9007602	130426	+9600	+10800	13	192	41	<.4	1	2.3	11	4	8
S9007601	130425	+9625	+10800	5	163	15	.5	2	2.66	11	7	3
S9007600	130424	+9650	+10800	12	278	18	.4	5	2.71	12	5	28
S9007599	130423	+9675	+10800	8	211	34	1.1	3	3.02	23	6	5
S9007598	130422	+9700	+10800	11	135	35	.6	1	3.59	22	6	13

S9007597	130421	+9725	+10800	6	160	67	1.5	2	1.9	28	7	22
S9007596	130420	+9750	+10800	7	120	105	1.8	2	2.44	54	10	12
S9007595	130419	+9775	+10800	13	338	58	1.8	2	3.25	24	13	<2
S9007594	130418	+9800	+10800	9	153	31	.6	1	3.83	22	9	9
S9007593	130417	+9825	+10800	14	611	39	<.4	3	4.91	23	11	9
S9007592	130416	+9850	+10800	17	442	38	<.4	2	5.14	25	11	21
S9007591	130415	+9875	+10800	17	103	26	<.4	1	4.84	12	8	7
S9007590	130414	+9900	+10800	17	84	8	.5	20	3.37	27	13	6
S9007589	130413	+9925	+10800	17	149	45	.8	2	3.98	21	8	8
S9007588	130412	+9950	+10800	14	100	27	<.4	1	3.1	9	3	10
S9007587	130411	+9975	+10800	10	61	17	<.4	1	1	<1	<1	3
S9007452	130001	+10000	+10800	15	60	21	1.2	1	1.42	9	2	6
S9007453	130002	+10025	+10800	13	61	15	.6	<1	2.09	8	2	3
S9007454	130003	+10050	+10800	20	85	28	1.1	<1	5.49	14	3	8
S9007455	130004	+10075	+10800	15	99	35	1	<1	4.23	19	5	12
S9007456	130005	+10100	+10800	20	74	26	1.8	<1	4.18	7	2	8
S9007457	130006	+10125	+10800	11	61	16	<.4	1	1.15	7	2	<2
S9007458	130007	+10150	+10800	16	107	28	.9	<1	3.94	17	4	9
S9007552	130028	+9500	+10900	17	147	30	<.4	1	3.03	10	3	8
S9007551	130027	+9525	+10900	10	63	12	<.4	1	1.62	<1	1	3
S9007550	130026	+9550	+10900	21	63	10	<.4	1	1.68	<1	<1	3
S9007549	130025	+9575	+10900	17	163	26	.8	1	4.87	15	10	12
S9007548	130024	+9600	+10900	86	152	21	5.3	2	1.46	1	<1	33
S9007547	130023	+9625	+10900	23	125	12	1.4	2	.53	<1	<1	4
S9007546	130022	+9650	+10900	<4	163	23	.6	1	2.97	62	8	20
S9007545	130021	+9675	+10900	<4	60	15	.4	<1	2.08	8	2	8
S9007544	130020	+9700	+10900	4	86	23	.9	1	.67	7	2	6
S9007543	130019	+9725	+10900	12	96	20	<.4	<1	1.17	5	1	12
S9007542	130018	+9750	+10900	11	116	65	.8	1	2.33	10	2	33
S9007541	130017	+9775	+10900	<4	205	71	.7	1	2.04	24	7	29
S9007540	130016	+9800	+10900	11	161	70	3.6	1	1.81	19	2	14
S9007539	130015	+9825	+10900	24	127	28	.9	2	1.46	8	1	21
S9007538	130014	+9850	+10900	303	351	40	.7	2	1.35	14	2	50
S9007537	130013	+9875	+10900	16	178	38	.5	3	1.71	10	2	14
S9007536	130012	+9900	+10900	40	131	116	3.4	7	1.72	55	8	14
S9007535	130011	+9925	+10900	<4	116	22	.4	1	.28	4	1	8
S9007534	130010	+9950	+10900	5	114	40	1.6	1	.55	10	1	29
S9007533	130009	+9975	+10900	<4	175	17	.7	3	10.75	15	70	<2
S9007532	130008	+10000	+10900	5	87	23	2	2	.66	5	2	<2

S9007525	130101	+10000	+10900	18	133	71	2	3	2.86	38	12	7
S9007526	130102	+10025	+10900	112	87	36	1.7	1	3.13	10	3	5
S9007527	130103	+10050	+10900	19	120	42	.5	1	4.94	22	7	11
S9007528	130104	+10075	+10900	17	159	34	.8	1	5.13	24	8	5
S9007529	130105	+10100	+10900	16	139	45	.5	1	3.92	25	10	12
S9007530	130106	+10125	+10900	4	54	18	.7	1	.37	<1	<1	<2
S9007531	130107	+10150	+10900	<4	217	11	1.1	6	7.34	11	215	18
S9007573	130049	+9500	+11000	5	96	21	<.4	<1	4.2	3	4	<2
S9007572	130048	+9525	+11000	7	87	23	.5	1	4.74	<1	3	12
S9007571	130047	+9550	+11000	39	239	38	<.4	3	3.61	9	9	20
S9007570	130046	+9575	+11000	12	87	20	<.4	1	2.8	<1	2	4
S9007569	130045	+9600	+11000	<4	45	16	.5	<1	1.87	<1	4	2
S9007568	130044	+9625	+11000	<4	51	28	<.4	<1	1.25	<1	<1	6
S9007567	130043	+9650	+11000	76	167	37	.9	1	4.78	2	1	147
S9007566	130042	+9675	+11000	6	60	33	<.4	1	1.58	9	1	11
S9007565	130041	+9700	+11000	<4	111	37	<.4	1	2.81	10	3	27
S9007564	130040	+9725	+11000	5	132	46	<.4	<1	2.27	14	4	15
S9007563	130039	+9750	+11000	7	141	53	2.5	1	3.6	27	6	35
S9007562	130038	+9775	+11000	11	195	67	<.4	1	2.37	28	4	29
S9007561	130037	+9800	+11000	17	234	114	1.2	11	3.13	44	7	27
S9007560	130036	+9825	+11000	14	194	103	<.4	1	3.32	34	6	34
S9007559	130035	+9850	+11000	6	92	40	1	1	1.4	9	1	10
S9007558	130034	+9875	+11000	14	114	39	<.4	1	1.2	4	1	7
S9007557	130033	+9900	+11000	21	204	123	2	4	2.79	40	7	14
S9007556	130032	+9925	+11000	15	153	80	.9	3	2.13	17	11	7
S9007555	130031	+9950	+11000	<4	83	51	.5	4	.86	15	4	4
S9007554	130030	+9975	+11000	19	127	25	<.4	1	3.57	8	5	12
S9007553	130029	+10000	+11000	16	164	50	1.1	3	3.12	22	14	7
S9007574	130059	+10025	+11000	14	159	45	<.4	<1	4.15	27	11	9
S9007575	130060	+10050	+11000	10	112	28	1	1	2.25	10	5	4
S9007576	130061	+10075	+11000	16	147	48	.6	2	3.68	26	10	7
S9007577	130062	+10100	+11000	21	227	91	2.4	3	4.2	49	18	9
S9007578	130063	+10125	+11000	20	256	56	.8	2	5.26	47	19	8
S9007579	130064	+10150	+11000	32	309	101	1.9	4	5.51	55	21	15
S9007451	130091	+9500	+11100	12	80	15	.6	1	2.17	8	1	8
S9007450	130090	+9525	+11100	14	109	26	.8	<1	2.51	14	4	7
S9007449	130089	+9550	+11100	18	108	36	.6	1	2.38	16	5	9
S9007448	130088	+9575	+11100	14	94	24	.5	<1	2.43	11	4	7
S9007447	130087	+9600	+11100	17	85	19	1.8	1	1.13	8	2	11

S9007446	130086	+9625	+11100	<4	86	12	.5	<1	1.58	5	2	3
S9007445	130085	+9650	+11100	<4	53	16	<.4	<1	.75	1	<1	5
S9007444	130084	+9675	+11100	38	368	28	1.9	1	1.93	25	2	25
S9007443	130083	+9700	+11100	16	91	24	.4	<1	1.79	12	3	16
S9007442	130082	+9725	+11100	18	81	21	1.1	<1	1.96	10	2	9
S9007441	130081	+9750	+11100	24	264	43	1	1	2.27	38	3	22
S9007440	130080	+9775	+11100	38	219	38	.7	2	2.74	24	6	14
S9007439	130079	+9800	+11100	33	396	67	1	3	4.38	29	12	9
S9007438	130078	+9825	+11100	18	183	71	.6	1	2.51	23	4	19
S9007437	130077	+9850	+11100	9	196	32	.6	3	2.91	10	5	3
S9007436	130076	+9875	+11100	35	176	40	1	1	3.89	16	9	18
S9007435	130075	+9900	+11100	23	126	27	.6	1	2.39	10	3	15
S9007434	130074	+9925	+11100	20	128	31	1.1	1	2.9	17	9	17
S9007433	130073	+9950	+11100	20	196	29	.7	2	2.45	16	10	6
S9007432	130072	+9975	+11100	125	151	99	.6	1	6.01	23	8	57
S9007580	130065	+10000	+11100	63	192	66	1.3	1	6.08	15	5	69
S9007581	130066	+10025	+11100	16	96	25	.6	<1	4.14	4	2	11
S9007582	130067	+10050	+11100	10	62	17	<.4	<1	1.08	<1	<1	2
S9007583	130068	+10075	+11100	18	111	31	2.5	1	4.33	10	3	10
S9007584	130069	+10100	+11100	11	145	44	.7	1	4.16	8	8	7
S9007585	130070	+10125	+11100	23	124	55	.8	1	3.13	7	6	8
S9007586	130071	+10150	+11100	24	129	64	.5	2	2.6	14	4	20
S9007392	130275	+9500	+11200	18	136	31	.6	2	3.51	22	7	14
S9007391	130274	+9525	+11200	16	101	23	<.4	2	2.22	22	4	12
S9007390	130273	+9550	+11200	16	114	26	<.4	1	4.77	5	6	9
S9007389	130272	+9575	+11200	17	110	23	.6	2	4.03	1	6	9
S9007388	130271	+9600	+11200	14	171	29	1	5	4.77	7	15	7
S9007387	130270	+9625	+11200	16	153	23	.4	2	5	6	8	8
S9007386	130269	+9650	+11200	14	809	86	2.2	46	3.53	84	12	15
S9007385	130268	+9675	+11200	21	341	190	.5	1	10.25	47	15	92
S9007384	130267	+9700	+11200	4	93	20	<.4	2	1.7	2	4	9
S9007383	130266	+9725	+11200	9	107	24	<.4	1	3.3	8	5	9
S9007382	130265	+9750	+11200	5	130	17	.5	1	1.57	6	5	11
S9007381	130264	+9775	+11200	26	150	44	1	1	8.41	10	10	10
S9007380	130263	+9800	+11200	7	51	13	<.4	1	1.09	<1	3	4
S9007379	130262	+9825	+11200	11	88	16	.5	1	1.68	<1	4	3
S9007378	130261	+9850	+11200	13	71	26	.8	1	1.55	<1	4	6
S9007377	130260	+9875	+11200	15	102	26	1.9	1	2.21	3	4	11
S9007376	130259	+9900	+11200	34	345	173	4.8	12	5.78	64	54	17

S9007375	130258	+9925	+11200	74	144	52	1.5	1	4.31	18	3	21
S9007374	130257	+9950	+11200	17	288	65	4.2	1	6.25	28	13	25
S9007373	130256	+9975	+11200	12	149	27	.6	1	8.28	12	11	8
S9007372	130255	+10000	+11200	14	108	22	<.4	<1	3.54	<1	7	22
S9007371	130254	+10025	+11200	8	80	27	.7	<1	3.74	<1	7	5
S9007370	130253	+10050	+11200	50	94	13	1.1	<1	1.41	<1	4	3
S9007369	130252	+10075	+11200	10	103	19	.4	1	2.14	<1	6	7
S9007368	130251	+10100	+11200	16	122	39	<.4	2	2.98	<1	7	12
S9007482	130358	+9500	+11300	16	110	28	.6	<1	2.83	11	4	<2
S9007481	130357	+9525	+11300	21	175	81	3.9	2	3.33	44	12	24
S9007480	130356	+9550	+11300	16	113	27	.8	1	3.14	10	4	4
S9007479	130355	+9575	+11300	17	133	32	.9	<1	4.45	18	5	17
S9007478	130354	+9600	+11300	19	122	35	.5	<1	2.95	17	4	21
S9007477	130353	+9625	+11300	13	114	22	.7	1	3.73	16	4	12
S9007476	130352	+9650	+11300	20	132	27	<.4	1	3.68	19	4^H 18	
S9007475	130351	+9675	+11300	5	541	75	.6	1	5.57	101	11	237
S9007474	130350	+9700	+11300	6	85	23	<.4	<1	1.33	15	3	15
S9007473	130349	+9725	+11300	22	245	39	1.4	1	4.87	34	5	45
S9007472	130348	+9750	+11300	108	73	15	2.5	<1	2.9	4	2	33
S9007471	130347	+9775	+11300	24	106	26	2.4	<1	4.51	8	2	24
S9007470	130346	+9800	+11300	44	112	29	1.4	1	4.68	16	8	11
S9007469	130345	+9825	+11300	32	112	26	.4	<1	3.1	14	3	14
S9007468	130344	+9850	+11300	15	41	16	.7	<1	.65	<1	<1	2
S9007467	130343	+9875	+11300	15	87	27	.9	1	1.13	10	2	7
S9007466	130342	+9900	+11300	18	155	47	.7	4	1.76	11	5	3
S9007465	130341	+9925	+11300	120	101	29	1.5	1	1.65	8	2	7
S9007464	130340	+9950	+11300	24	207	39	1.5	<1	3.29	13	5	22
S9007463	130339	+9975	+11300	42	389	109	1	5	3.75	35	23	10
S9007462	130338	+10000	+11300	34	118	25	.7	1	2.91	9	3	9
S9007461	130337	+10025	+11300	22	145	42	1.3	1	5.36	27	6	23
S9007460	130336	+10050	+11300	42	182	146	3.3	3	8.03	40	28	28
S9007459	130335	+10075	+11300	28	121	41	.8	<1	4.65	17	6	19

CUNNING-WD

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 Lab. Field No. Ag As Cu Pb Zn Co Ni Cd Fe

		EAST	NORTH	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
S90-11141	130382	+9860	+10950	<.4	5	281	349	9435	7	52	168		.61
S90-11142	130383	+9855	+10950	.4	<2	281	835	9087	5	34	120		.34
S90-11143	130384	+9850	+10950	3.3	12	616	6187	9044	25	43	129		1.09
S90-11144	130385	+9845	+10950	1.7	27	467	3086	8855	14	53	48		3.14
S90-11145	130386	+9835	+10950	2.0	28	338	169	1111	16	31	18		4.03
S90-11146	130387	+9825	+10950	1.1	17	60	40	194	3	22	3		1.98
S90-11147	130388	+9870	+10950	.8	<2	747	1206	>10000	1	53	208		.42
S90-11148	130389	+9875	+10950	1.4	12	915	455	9539	15	65	159		2.57
S90-11149	130390	+9880	+10950	<.4	7	139	50	681	10	34	19		1.35
S90-11150	130391	+9885	+10950	1.9	11	86	20	193	9	42	7		1.11
S90-11151	130392	+9895	+10950	<.4	6	59	19	155	11	41	1		2.54
S90-11152	130393	+9905	+10950	<.4	<2	38	21	167	11	32	<1		2.53
S90-11153	130394	+9865	+10975	.6	38	51	152	343	5	21	<1		2.73
S90-11154	130395	+9860	+10975	1.0	56	157	794	993	15	26	3		5.18
S90-11155	130396	+9855	+10975	<.4	58	166	5411	2071	22	19	5		6.98
S90-11156	130397	+9850	+10975	<.4	43	72	239	733	15	13	1		4.57
S90-11157	130398	+9845	+10975	<.4	21	72	320	280	4	19	<1		2.69
S90-11158	130399	+9835	+10975	<.4	16	40	40	164	5	31	<1		2.45
S90-11159	130400	+9825	+10975	1.3	13	29	21	106	<1	20	<1		1.78
S90-11160	130401	+9875	+10975	<.4	20	43	53	159	5	21	<1		2.38
S90-11161	130402	+9895	+10975	.8	13	98	67	149	16	64	11		2.43
S90-11162	130403	+9925	+10975	<.4	15	63	39	106	8	29	3		2.79

APPENDIX "E"

ROCK GEOCHEMISTRY & Pb ISOTOPE RESULTS

CUNNING-WD

Job V90-171R

Report Date : 09-26-1990

Lab.	Field No.	Pb	Zn	Cu	Ag	Cd	Ni	Co	As	Fe
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
R90-4781	C1	26	128	28	<.4	1	38	7	9	31521
R90-4782	C2	49	86	64	<.4	<1	18	2	29	26404
R90-4783	C3	30	330	25	<.4	3	14	7	11	14022
R90-4784	C4	38	474	36	0.7	5	25	6	16	9928
R90-4785	C5A	1590	2760	109	2.8	17	74	7	25	13415
R90-4786	C5B	6570	3720	110	6.9	24	81	5	17	11466
R90-4787	C6	43	581	76	0.7	10	62	5	4	12982

CUNNING-WD

Job V90-257R

Report Date : 08-16-1990

Lab.	Field No.	Ag	As	Cu	Pb	Zn	Co	Ni	Cd	Fe	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb
R90-6496	CUN1	45.8	10	1223	66.5%	4.62%	10	9	270	1.16	<10
R90-6497	CUN2	39.8	12	1166	66.8%	4.75%	12	12	261	1.45	<10
R90-6498	CUN3	40.8	14	1264	61.4%	8.05%	16	14	429	1.63	<10
R90-6499	CUN4	<.4	23	312	5838	1.29%	9	6	120	2.53	<10
R90-6500	CUN5	<.4	45	99	628	1106	26	18	3	6.31	<10
R90-9336	CUN20	1.2	39	374	5238	4647	32	29	10	3.52	
R90-9337	CUN21	1.0	<2	30	1289	825	2	10	1	1.23	
R90-9338	CUN22	>100	9	845	>10000	>10000	11	12	328	1.81	
R90-9339	CUN23	1.0	<2	6	1619	124	<1	3	<1	.28	

ROCK DESCRIPTIONS

FIELD#	TYPE	COMMENTS
C1	outcrop	grab, background analysis
C2	outcrop	shear zone 1m chip
C3	outcrop	1m chip
C4	outcrop	1m chip minor hydrozincite stain
C5A	outcrop	1m chip hydrozincite showing
C5B	outcrop	.3m chip of above
C6	outcrop	1m chip adjacent to C5
CUN1	float	galena boulder 10 x 18cm
CUN2	float	" " 7 x 14cm
CUN3	float	" " 7 x 12 cm
CUN4	float	quartz , bull, chlorite seams w/sericite
CUN5	float	rusty, punky appearing sandy siltstone
CUN20	float	schist, tan sandy quartz arenite with chloritic alteration
CUN21	float	quartz , white bull w/ PbS fleck 3 x 3mm
CUN22	float	galena , nodules in trench 3 x 4 cm
CUN23	float	quartz , bull barren with hand lense

LEAD ISOTOPE DATA SHEET
 GEOCHRONOLOGY LABORATORY, DEPARTMENT OF GEOLOGICAL SCIENCES (PH (604)228-2804).
 THE UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER, B.C., CANADA V6T 2B4

LABORATORY ENTRY ONLY

Form Revised: 11/10/87 JEG

VIAL IS IN THE COLLECTION ()
 DATA ON THIS FORM HAS BEEN ENTERED
 IN DBASE FOR BELT: I(), C(), N(),
 O(), S(), F(), OTHER()

LAB NUMBER (1 sampleno): 3 1 0 0 4 - 0 0 2
 MAP SYMBOL (9 mapsymbol): _____ HOST CODE (12 hostcode): _____
 TYPE CODE (14 typecode): _____ TECTONIC CODE (16 tectcode): _____
 SAMPLE ACQUIRED (5 acqdate): m 0 8 / d 0 3 / y 9 0

COLLECTOR ENTRY

DEPOSIT NAME (3 depname): Showing
 COLLECTOR, SAMPLE NAME & NUMBER (4 samsource): Cumense
CUNZ
 NTS & GOVT NO (6 nts:bcml): 0 9 3 / A / 1 4 / W: N W
 LATITUDE DEGREES NORTH (7 latnorth): 5 2 . 5 9 (++) 5 2 . 9 8 IDEG. N
 LONG. DEGREES WEST (8 longwest): 1 2 1 . 2 0 (++) 1 2 1 . 3 3 IDEG. W
 HOST FORMATION & LITHOLOGY (10 hostlith): Black Sand Fm
 HOST AGE (11 hostage): Cretaceous
 DEPOSIT TYPE (13 deptype): _____
 TECTONIC ELEMENT (15 tectelem): _____
 COMMENTS, GEOLOGIC DETAILS, REFERENCES, ETC. (33 comments): _____

LABORATORY ENTRY

RUN NO (21 runno): 1 OR
 ANALYST (17 analyst): A-Pickering ANALYSTS CODE (18 analystcode): _____
 MATERIAL ANALYSED (19 materanal): pe
 RUNDATE: NORM DATE (20 rundate): m 0 8 / d 0 5 / y 9 0 : m 0 2 / d 0 2 / y 9 0
 RUN QUALITY: TEMPERATURE: BLOCKS (22 runqual): J 6 0 R: 1 2 5 0 1 0 7
 PB206/204 NORMALIZED (23 pb206_4): 1 8 . 4 8 9
 PRECISION: 0.0 1 2 ABSOLUTE (24 pb206_4pcerr) 0. 0 7 %
 PB207/204 NORMALIZED (25 pb207_4): 1 5 . 6 8 3
 PRECISION: 0.0 1 0 ABSOLUTE (26 pb207_4pcerr) 0. 0 7 %
 PB208/204 NORMALIZED (27 pb208_4): 3 0 . 4 8 1
 PRECISION: 0.0 2 6 ABSOLUTE (28 pb208_4pcerr) 0. 0 7 %
 PB207/206 NORMALIZED (29 pb207_6): 0 . 8 4 8 2 4
 PRECISION: 0.00 0 0 5 ABSOLUTE (30 pb207_6pcerr) 0. 0 1 %
 PB208/206 NORMALIZED (31 pb208_6): 2 . 0 8 1 3
 PRECISION: 0.00 0 2 ABSOLUTE (32 pb208_6pcerr) 0. 0 1 %
 COMMENT (33 comments): _____

RUN NO (21 runno): 2 OR
 ANALYST (17 analyst): _____ ANALYSTS CODE (18 analystcode): _____
 MATERIAL ANALYSED (19 materanal): _____
 RUNDATE: NORM DATE (20 rundate): m ___ / d ___ / y 8 : m ___ / d ___ / y 8
 RUN QUALITY: TEMPERATURE: BLOCKS (22 runqual): _____
 PB206/204 NORMALIZED (23 pb206_4): _____
 PRECISION: 0.0 ___ ABSOLUTE (24 pb206_4pcerr) 0. ___ %
 PB207/204 NORMALIZED (25 pb207_4): _____
 PRECISION: 0.0 ___ ABSOLUTE (26 pb207_4pcerr) 0. ___ %
 PB208/204 NORMALIZED (27 pb208_4): _____
 PRECISION: 0.0 ___ ABSOLUTE (28 pb208_4pcerr) 0. ___ %
 PB207/206 NORMALIZED (29 pb207_6): _____
 PRECISION: 0.00 ___ ABSOLUTE (30 pb207_6pcerr) 0. ___ %
 PB208/206 NORMALIZED (31 pb208_6): _____
 PRECISION: 0.00 ___ ABSOLUTE (32 pb208_6pcerr) 0. ___ %
 COMMENT (33 comments): _____

LEAD ISOTOPE DATA SHEET
 GEOCHRONOLOGY LABORATORY, DEPARTMENT OF GEOLOGICAL SCIENCES (PH (604)228-2804).
 THE UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER, B.C., CANADA V6T 2B4

LABORATORY ENTRY ONLY

Form Revised: 11/10/87 JEG

VIAL IS IN THE COLLECTION ()
 DATA ON THIS FORM HAS BEEN ENTERED
 IN DBASE FOR BELT: I(), CI(), NI(),
 OC(), SC(), FC(), OTHER()

LAB NUMBER (1 sampno): 31004-001
 MAP SYMBOL (9 mapsymbol): _____ HOST CODE (12 hostcode): _____
 TYPE CODE (14 typecode): _____ TECTONIC CODE (16 tectcode): _____
 SAMPLE ACQUIRED (5 acqdate): m 0 2 / d 0 3 / y 9 0

COLLECTOR ENTRY

DEPOSIT NAME (3 depname): Showing
 COLLECTOR, SAMPLE NAME & NUMBER (4 sampsource): Cominco
CUNI

NTS & GOVT NO (6 nts:bcml): 0 9 3 / A / L 4 / W: N W
 LATITUDE DEGREES NORTH (7 latnorth): 5 2 . 5 9 (++) 5 2 . 9 8 1 DEG. N
 LONG. DEGREES WEST (8 longwest): 1 2 1 . 2 0 (++) 1 2 1 . 3 3 1 DEG. W
 HOST FORMATION & LITHOLOGY (10 hostlith): Black Stuart formation
 HOST AGE (11 hostage): Ordovician
 DEPOSIT TYPE (13 deptype): _____
 TECTONIC ELEMENT (15 tectelem): _____

COMMENTS, GEOLOGIC DETAILS, REFERENCES, ETC. (33 comments):
Map geology places showing in Cariboo Group - Cunningham
and Yankee Belle Formation - Hudsonian

Plots close to SHALE curve, even closer to PERICRATONIC curve,
at Cambrian. Probably slightly younger than Faroy at 8/4 = 18413, 7/4 = 15666,
8/4 = 38.434. Result 10110-004AP
indicates deposit might be syngenetic within Cariboo Group - not
Ordovician as indicated.

LABORATORY ENTRY

RUN NO (21 runno): 1 OR
 ANALYST (17 analyst): A. Pickering ANALYSTS CODE (18 analystcode): _____
 MATERIAL ANALYSED (19 materanal): Gr
 RUNDATA: NORM DATE (20 rundate): m 0 2 / d 0 5 / y 9 0: m 0 2 / d 0 2 / y 9 0
 RUN QUALITY: TEMPERATURE: BLOCKS (22 runqual): 6 6 0 0: 1 1 9 0: 1 0 7
 PB206/204 NORMALIZED (23 pb206_4): 1 8 . 4 7 5
 PRECISION: 0.0 0 2 ABSOLUTE (24 pb206_4pcerr) 0.0 1 %
 PB207/204 NORMALIZED (25 pb207_4): 1 5 . 6 6 9
 PRECISION: 0.0 0 2 ABSOLUTE (26 pb207_4pcerr) 0.0 1 %
 PB208/204 NORMALIZED (27 pb208_4): 3 8 . 4 3 4
 PRECISION: 0.0 0 7 ABSOLUTE (28 pb208_4pcerr) 0.0 2 %
 PB207/206 NORMALIZED (29 pb207_6): 0 . 8 4 8 1 3
 PRECISION: 0.00 0 4 ABSOLUTE (30 pb207_6pcerr) 0.0 0 %
 PB208/206 NORMALIZED (31 pb208_6): 2 . 0 8 0 4
 PRECISION: 0.00 0 2 ABSOLUTE (32 pb208_6pcerr) 0.0 1 %

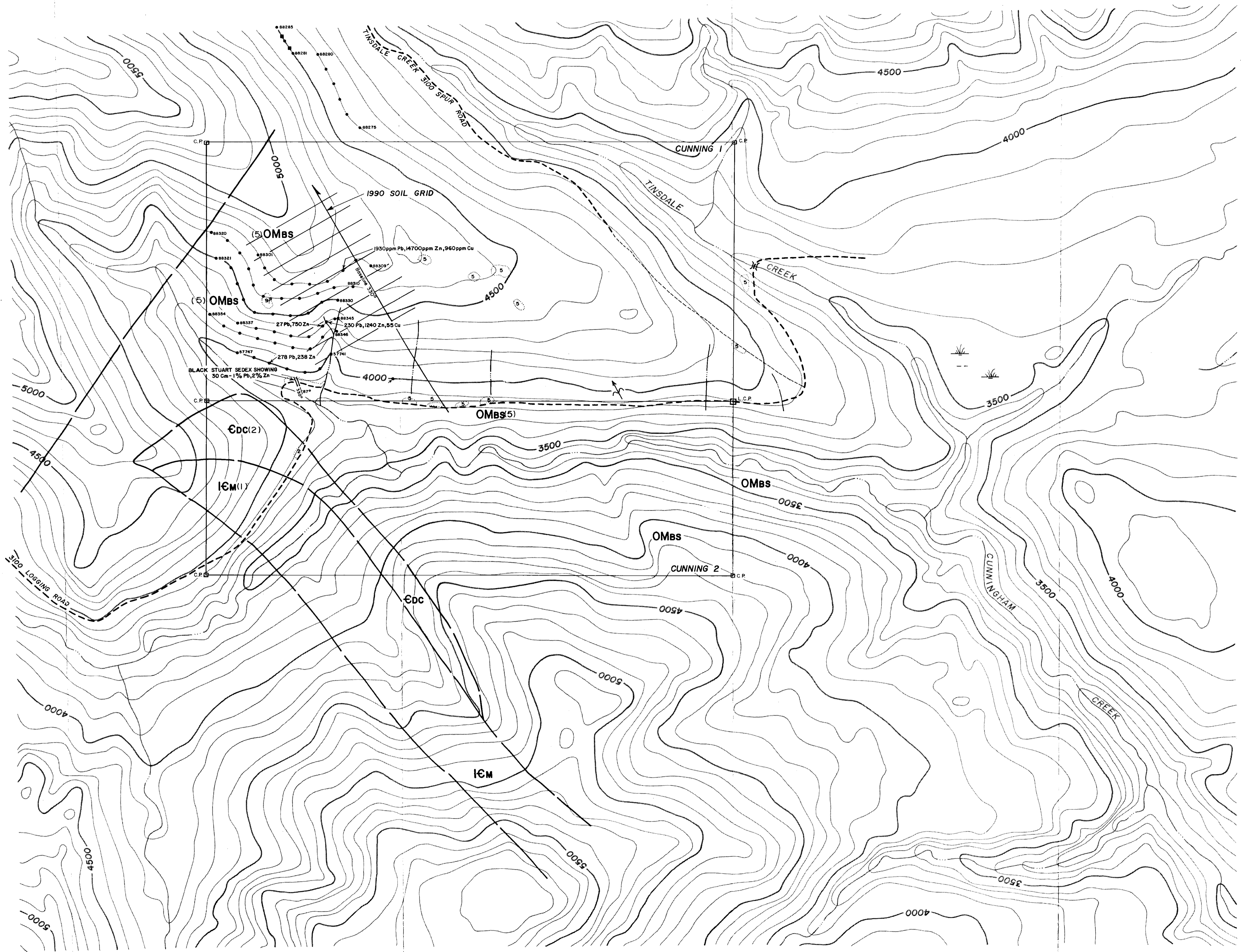
COMMENT (33 comments): _____

RUN NO (21 runno): 2 OR
 ANALYST (17 analyst): _____ ANALYSTS CODE (18 analystcode): _____
 MATERIAL ANALYSED (19 materanal): _____
 RUNDATA: NORM DATE (20 rundate): _____: _____
 RUN QUALITY: TEMPERATURE: BLOCKS (22 runqual): _____: _____: _____
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 PRECISION: 0.0 _____ ABSOLUTE (24 pb206_4pcerr) 0. _____ %
 PB207/204 NORMALIZED (25 pb207_4): _____
 PRECISION: 0.0 _____ ABSOLUTE (26 pb207_4pcerr) 0. _____ %
 PB208/204 NORMALIZED (27 pb208_4): _____
 PRECISION: 0.0 _____ ABSOLUTE (28 pb208_4pcerr) 0. _____ %
 PB207/206 NORMALIZED (29 pb207_6): _____
 PRECISION: 0.00 _____ ABSOLUTE (30 pb207_6pcerr) 0. _____ %
 PB208/206 NORMALIZED (31 pb208_6): _____
 PRECISION: 0.00 _____ ABSOLUTE (32 pb208_6pcerr) 0. _____ %

COMMENT (33 comments): _____

1989 TINSDALE CREEK SOILS + SILTS

LAB	FIELD NO	NO	CO	NO	NO	NO
880000	88320	13	880	86	9	2087
880001	88321	7	187	13	1.8	4043
880002	88322	9	149	41	1.6	4048
880003	88323	6	118	38	1.3	3130
880004	88324	4	100	42	2.3	3376
880005	88325	5	143	44	1.0	3663
880006	88326	5	119	30	4.0	2780
880007	88327	5	118	83	8.0	1787
880008	88328	5	113	82	8.0	1843
880009	88329	6	99	43	8.0	1778
880010	88330	6	140	42	7.0	2444
880011	88331	7	142	39	7.0	2444
880012	88332	6	141	39	7.0	2444
880013	88333	6	140	39	7.0	2444
880014	88334	6	140	39	7.0	2444
880015	88335	6	140	39	7.0	2444
880016	88336	6	140	39	7.0	2444
880017	88337	6	140	39	7.0	2444
880018	88338	6	140	39	7.0	2444
880019	88339	6	140	39	7.0	2444
880020	88340	6	140	39	7.0	2444
880021	88341	6	140	39	7.0	2444
880022	88342	6	140	39	7.0	2444
880023	88343	6	140	39	7.0	2444
880024	88344	6	140	39	7.0	2444
880025	88345	6	140	39	7.0	2444
880026	88346	6	140	39	7.0	2444
880027	88347	6	140	39	7.0	2444
880028	88348	6	140	39	7.0	2444
880029	88349	6	140	39	7.0	2444
880030	88350	6	140	39	7.0	2444
880031	88351	6	140	39	7.0	2444
880032	88352	6	140	39	7.0	2444
880033	88353	6	140	39	7.0	2444
880034	88354	6	140	39	7.0	2444
880035	88355	6	140	39	7.0	2444
880036	88356	6	140	39	7.0	2444
880037	88357	6	140	39	7.0	2444
880038	88358	6	140	39	7.0	2444
880039	88359	6	140	39	7.0	2444
880040	88360	6	140	39	7.0	2444
880041	88361	6	140	39	7.0	2444
880042	88362	6	140	39	7.0	2444
880043	88363	6	140	39	7.0	2444
880044	88364	6	140	39	7.0	2444
880045	88365	6	140	39	7.0	2444
880046	88366	6	140	39	7.0	2444
880047	88367	6	140	39	7.0	2444
880048	88368	6	140	39	7.0	2444
880049	88369	6	140	39	7.0	2444
880050	88370	6	140	39	7.0	2444
880051	88371	6	140	39	7.0	2444
880052	88372	6	140	39	7.0	2444
880053	88373	6	140	39	7.0	2444
880054	88374	6	140	39	7.0	2444
880055	88375	6	140	39	7.0	2444
880056	88376	6	140	39	7.0	2444
880057	88377	6	140	39	7.0	2444
880058	88378	6	140	39	7.0	2444
880059	88379	6	140	39	7.0	2444
880060	88380	6	140	39	7.0	2444
880061	88381	6	140	39	7.0	2444
880062	88382	6	140	39	7.0	2444
880063	88383	6	140	39	7.0	2444
880064	88384	6	140	39	7.0	2444
880065	88385	6	140	39	7.0	2444
880066	88386	6	140	39	7.0	2444
880067	88387	6	140	39	7.0	2444
880068	88388	6	140	39	7.0	2444
880069	88389	6	140	39	7.0	2444
880070	88390	6	140	39	7.0	2444
880071	88391	6	140	39	7.0	2444
880072	88392	6	140	39	7.0	2444
880073	88393	6	140	39	7.0	2444
880074	88394	6	140	39	7.0	2444
880075	88395	6	140	39	7.0	2444
880076	88396	6	140	39	7.0	2444
880077	88397	6	140	39	7.0	2444
880078	88398	6	140	39	7.0	2444
880079	88399	6	140	39	7.0	2444
880080	88400	6	140	39	7.0	2444



LEGEND

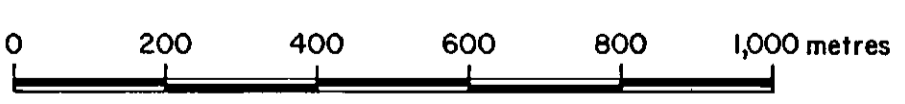
- CARIBOO TERRANE
- PERMIAN AND/OR TRIASSIC
 - 12 Pts Olive and grey greywacke and slate
- PENNSYLVANIAN
 - 11 Pz Grey fossiliferous and paleotoolite limestone
- MIDDLE PENNSYLVANIAN
 - 10 PAA ALEX ALLAN FORMATION: black micritic limestone, grey and black shale
- ORDOVICIAN TO MISSISSIPPIAN
 - MISSISSIPPIAN OR YOUNGER
 - 9 MBS Sandstone unit: olive grey micaceous and white quartzite, black and pink chert
 - LOWER MISSISSIPPIAN
 - 8 MG GREENBERRY FORMATION: crinoidal limestone, chert, dolostone
- UPPER DEVONIAN AND LOWER MISSISSIPPIAN
 - 7 DMG GUYET FORMATION: muddy and sandy conglomerate and breccia, granule quartzite and slate
- MIDDLE AND/OR UPPER DEVONIAN
 - 6 DMV MAVERLY FORMATION: schistose, calcareous, basaltic silt, and volcanoclastic, pillow basalt, minor argill.
- UPPER ORDOVICIAN AND DEVONIAN TO MISSISSIPPIAN OR YOUNGER
 - 5 OMBS Black plate unit: black slate, argillite and cherty argillite, black limestone, dolostone and silicified limestone (in part impure)
- UPPER SILURIAN AND LOWER DEVONIAN
 - 4 DMG Chert-carbonate unit: light to dark grey chert breccia, grey limestone matrix, dolostone granule to pebble breccia, limestone matrix, chert-quartz-dolostone conglomerate to breccia
- CAMBRIAN TO (?) DEVONIAN
 - 3 CDbs Black Stuart formation (as used by Campbell, 1978)
- HADRYNIAN AND CAMBRIAN
 - LOWER TO (?) UPPER CAMBRIAN
 - 2 CDC DOME CREEK FORMATION: dark shale and limy shale
- LOWER CAMBRIAN
 - 1 ICM MURAL FORMATION: grey limestone, minor shale and argill.

from STRUIK, L.C., G.S.C. MEM 421

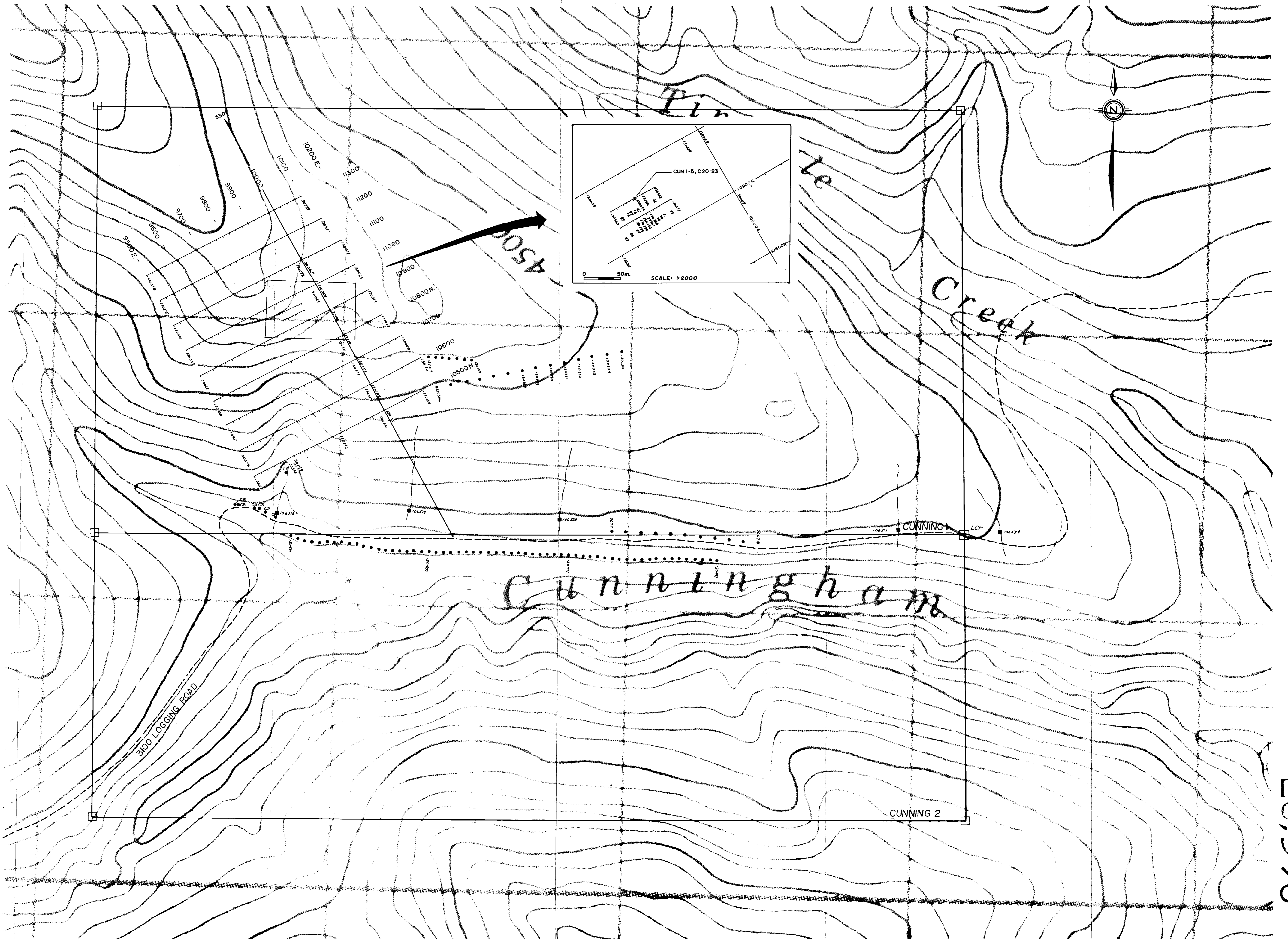
- SOIL SAMPLE
- SILT SAMPLE

GEOLOGICAL BRANCH ASSESSMENT REPORT

20,396



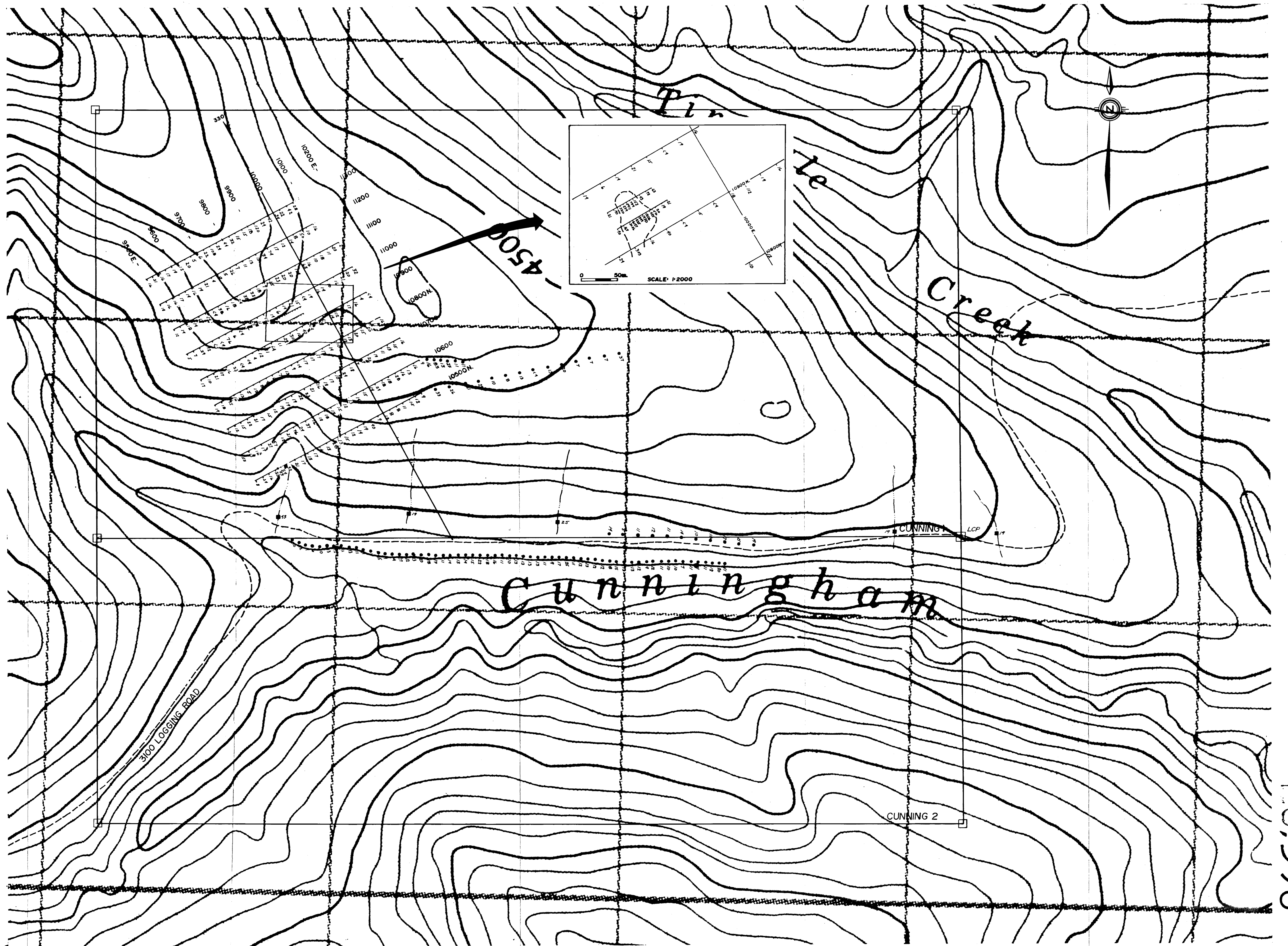
CUNNING PROPERTY		GEOLOGY	1988 RECCE GEOCHEMISTRY
Drawn by: D.L.C.	Traced by: a.m.a.		
Revised by: []	Revised by: []	Scale: 1 : 10,000	Date: JUNE 7, 1990
FORM 90-3		FORM 90-3	



GEOLOGICAL BRANCH
 ASSESSMENT REPORT
 20,396

CUNNING PROPERTY			
Drawn by	DLC	Traced by	
Checked by		Revised by	
		Date	
			SAMPLE NUMBERS (2)
Scale 1:5000			Date OCT. 1990
			Plate 90-4

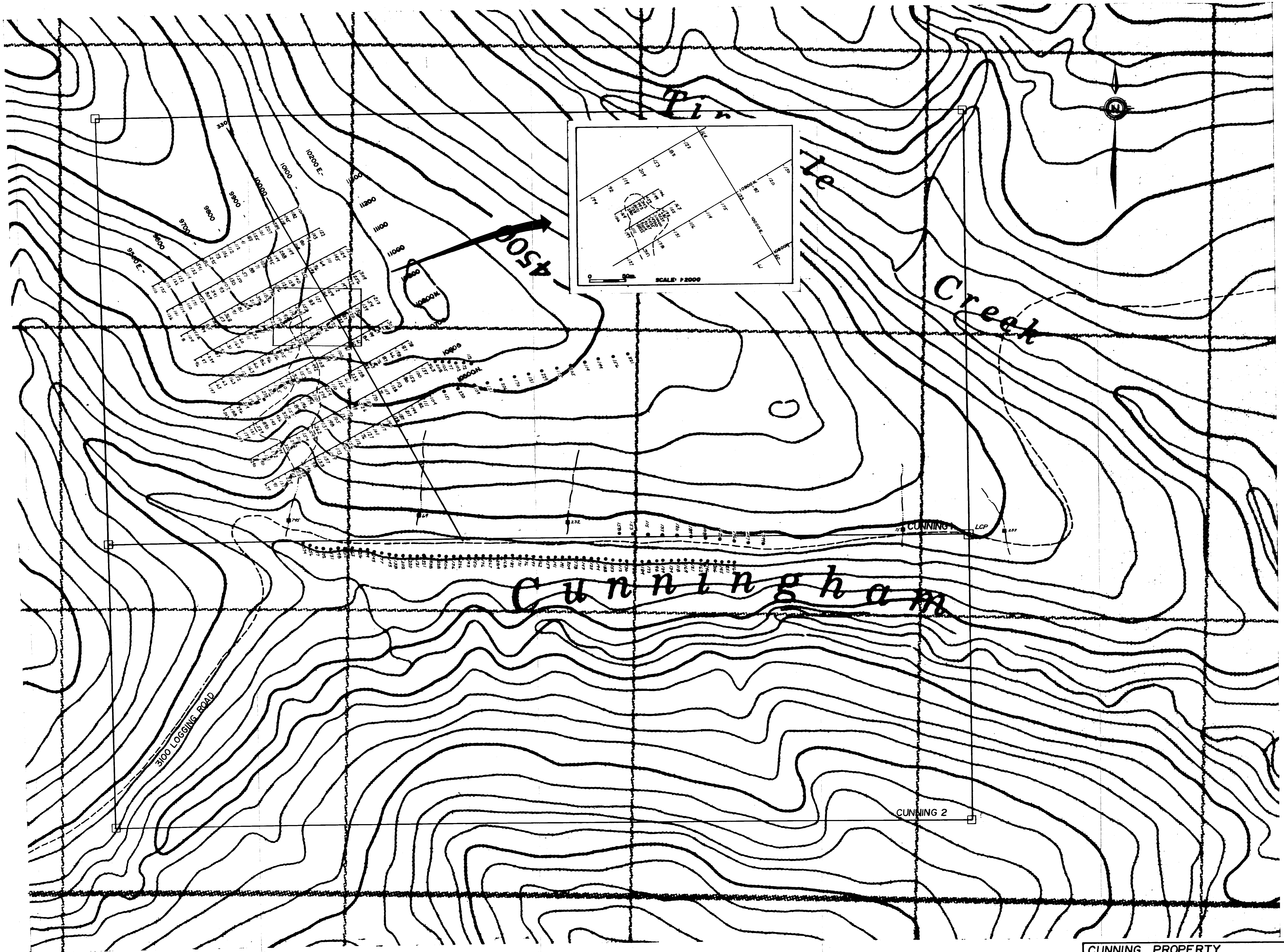
● SOIL
 ● SILT
 ● ROCK OUTCROP
 ● ROCK FLOAT



20,396

GEOLOGICAL BRANCH
ASSESSMENT REPORT

CUNNING PROPERTY			
Drawn by	DLC	Traced by	
Revised by		Revised by	
Date		Date	
LEAD GEOCHEMISTRY		③	
SOILS, SILTS			
Scale	1:5000	Date	OCT. 1990
Plate	90-5		



20,396

GEOLOGICAL BRANCH
ASSESSMENT REPORT

CUNNING PROPERTY		ZINC GEOCHEMISTRY	
Drawn by	DLC	Traced by	
Checked by		Reviewed by	
Date		Date	
Scale: 1:8000		Date: OCT. 1980	Plate: 90-6

(4)

FORM 114