

COMINCO LTD.  
EXPLORATION WESTERN CANADA  
NTS: 104G/1

ASSESSMENT REPORT  
ON GEOCHEMICAL WORK ON THE  
PANKY 1 and 2 CLAIMS  
LIARD MINING DIVISION, BRITISH COLUMBIA  
LATITUDE: 57° 12'N LONGITUDE: 130° 27'W  
*Work Performed: July 10-11, Sept 4, 1988*

APRIL, 1989

M.G. WESTCOTT  
I.A. PATERSON

18721

ARIS SUMMARY SHEET

District Geologist, Smithers

Off Confidential: 90.05.12

ASSESSMENT REPORT 18721

MINING DIVISION: Liard

PROPERTY: Panky  
LOCATION: LAT 57 13 00 LONG 130 29 00  
UTM 09 6342267 410415  
NTS 104G01W  
CLAIM(S): Panky 1-2  
OPERATOR(S): Cominco  
AUTHOR(S): Westcott, M.G.; Paterson, I.A.  
REPORT YEAR: 1989, 17 Pages  
COMMODITIES  
SEARCHED FOR: Gold  
KEYWORDS: Mesozoic, Quartz feldspar porphyry, Andesite, Rhyolite  
WORK  
DONE: Geochemical  
ROCK 23 sample(s) ; AU, AG, CU, PB, ZN, AS  
SOIL 154 sample(s) ; AU, AG, CU, PB, ZN, AS  
Map(s) - 4; Scale(s) - 1:10 000

FILMED

LOG NO: 0515	RD.
ACTION:	
FILE NO:	

COMINCO LTD.

EXPLORATION

WESTERN CANADA

NTS: 104G/1

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

18,721

ASSESSMENT REPORT

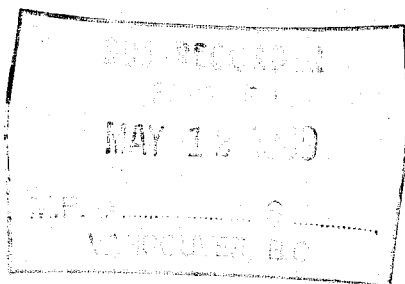
ON GEOCHEMICAL WORK ON THE

PANKY 1 and 2 CLAIMS

LIARD MINING DIVISION, BRITISH COLUMBIA

LATITUDE: 57° 12'N LONGITUDE: 130° 27'W

Work Performed: July 10 -11, September 4, 1988



APRIL, 1989

M.G. WESTCOTT  
I.A. PATERSON

TABLE OF CONTENTS

Summary.....1  
Introduction.....1  
Location.....1  
Tenure.....1  
Geology.....2  
Geochemistry.....2,3  
Conclusions and Recommendations....3,4

PLATES AND FIGURES

Figure 1      Index Map      1:250,000  
Figure 2      Claim Map      1:50,000

PLATES

Plate 1      Sample Locations  
Plate 2      Geochemistry Cu/Au  
Plate 3      Geochemistry Pb/Zn  
Plate 4      Geochemistry Ag/As

APPENDIX I    Statement of Expenditures  
APPENDIX II    Geochemistry results  
APPENDIX III    Analytical methods.  
APPENDIX IV    Certificate  
APPENDIX V    References

COMINCO LTD.

EXPLORATION

WESTERN CANADA  
24 April 1989

1988 ASSESSMENT REPORT

GEOCHEMICAL REPORT ON PANKY

SUMMARY

Panky 1 and Panky 2 were staked in June 1988 in order to cover several large gossans adjacent to Lac Minerals' Hank property, where similar looking gossans are associated with gold and silver bearing mineralization.

Work performed on the claims included prospecting and contour soil sampling. Soil sampling defined a 300 m long Au, Cu, Pb, Zn, As anomaly, and an As anomaly continuous over 200 m.

Values from the anomalous zones range from 20-410 ppb Au, 38-340 ppm Cu, 13-28 ppm Pb, 112-502 ppm Zn, and 42-144 ppm As. In an area not tested by soil sampling, prospecting revealed volcanic hosted calcite veins anomalous in Au (20-22 ppb), Ag (1.4-16ppm), and As (1116-1650 ppm).

The total expenditure for work performed in 1988 was \$7500.00.

INTRODUCTION

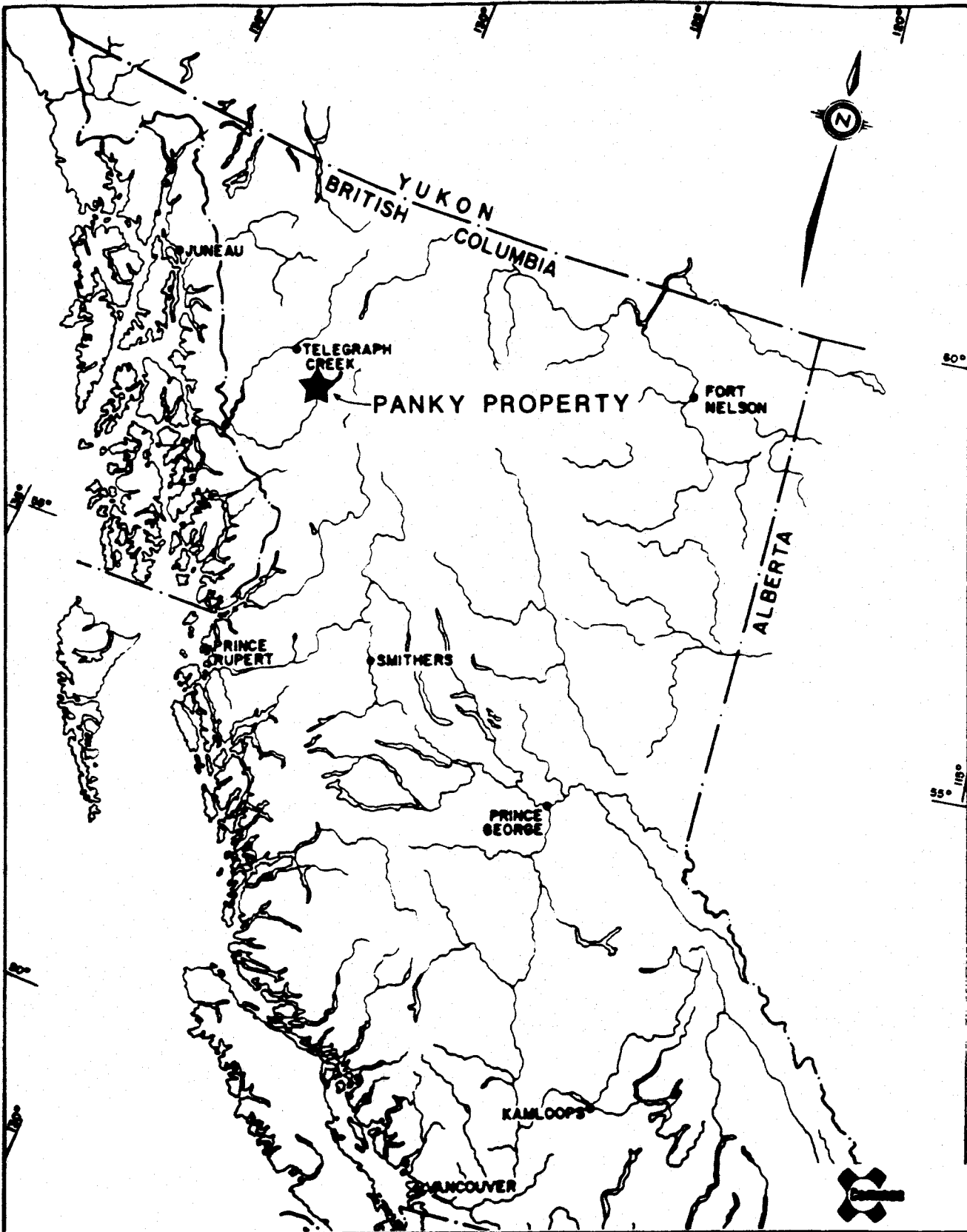
The Panky 1 and 2 claims were staked in June 1988 in order to cover several large gossanous zones adjacent to Lac Minerals' Hank property, located north and northwest of the Panky claims.

The property is bordered to the south by moderately steep, highly glaciated terrain which extends onto the southernmost portion of the claims. To the north, topography is generally more subdued, rising up to a smooth flat saddle which separates the Hank and the Panky claims. Vegetation is limited to the eastern portion of the claims where sparsely distributed evergreen patches and grasses are present. A valley trending northeast across the claims is occupied by a 10-15 m wide creek.

Personnel involved on the property were: I.A. Paterson, A.B. Mawer, M.G. Westcott, R.A. Van Edmond, G. Wober, and D. Owens.

LOCATION

The Panky claims lie within the Liard Mining Division on N.T.S. map sheet 104G/1. The claims are centered about latitude 57° 12' and longitude 130° 27'. Hankin Peak is located 7 km due east of the property and the Stewart-Cassiar highway is located 12 km to the west. Access to the property is via helicopter out of Bronson creek airstrip or Telegraph Creek.



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

# INDEX MAP

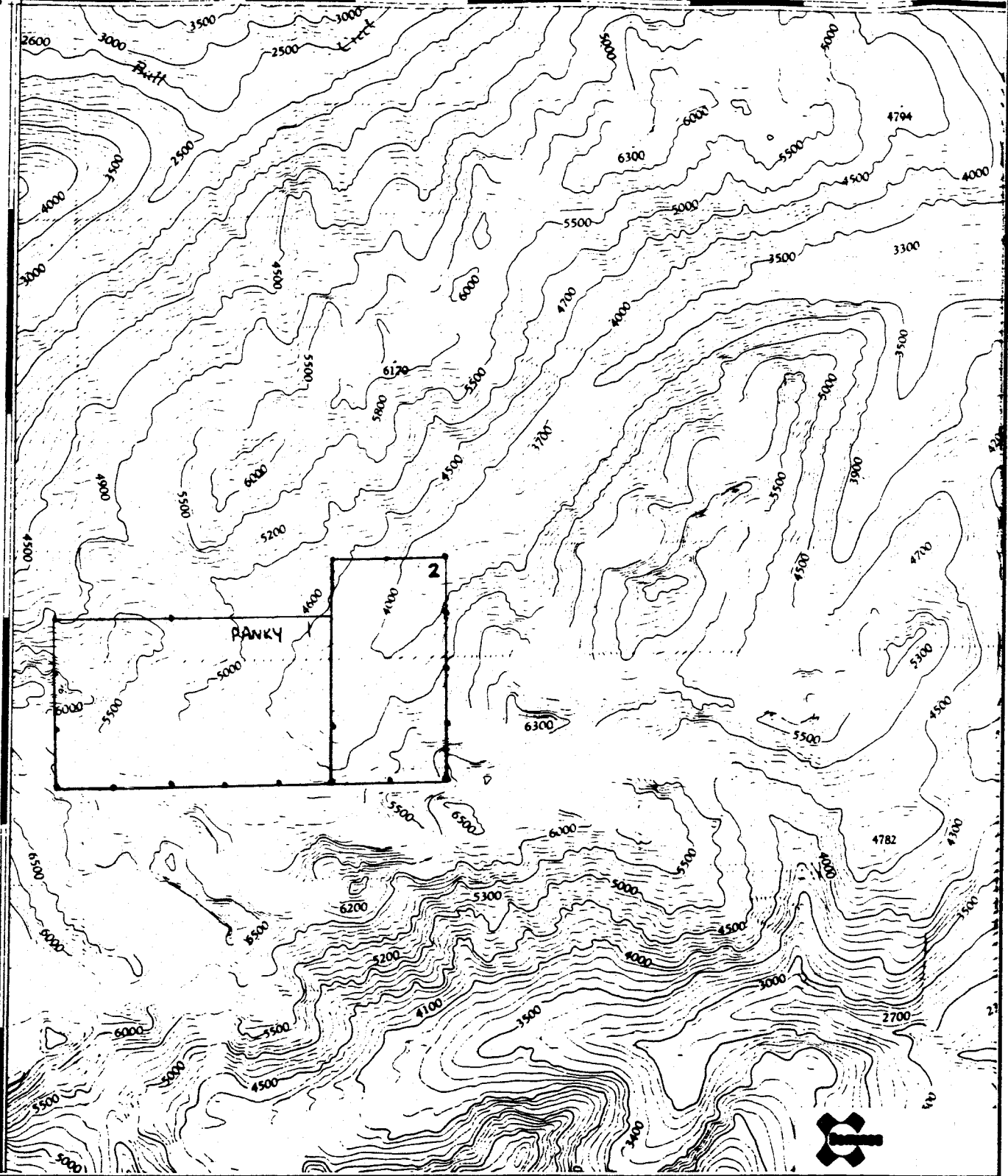
# FIGURE 1

Scale: \_\_\_\_\_ Date: APRIL 12, 89 Plate: 104G/1

130° 30'

25'

57° 15'



Drawn by:		Traced by:	
Revised By	Date	Revised by	Date

# PANKY 1 & 2 CLAIM MAP

## FIGURE 2

Scale: 1:50,000

Date: APRIL 12, 89

Plate: 104G/1

TENURE

Ownership: 100% Cominco Ltd.  
 Size: Panky 1 (15 units), Panky 2 (8 units) =23 units  
 Record #: 4808 , 4809  
 Due Date: July 15,1989 , July 15, 1989

GEOLOGY

Geology on and around the Panky claims is divisible as follows:

Upper Cretaceous and Lower Tertiary?

Pyritiferous quartz-feldspar porphyry, orbicular rhyolite, and pyritiferous felsite are locally abundant as northwest trending intrusions.

Lower Jurassic

Conglomerates, greywacke, siltstone, basalts and andesitic volcanics.

Upper Triassic

Augite-andesite flows, pyroclastics, volcanoclastics, minor greywacke, siltstone, and polymictic conglomerate. This package of rocks occupies the majority of the area, with the andesitic volcanics being the most abundant lithotype.

Five major alteration types are recognized in the area, including: pyritization, silicification, argillization, sericitization, and carbonatization. Many of the large gossans in the area are characterized by sericite and carbonate alteration.

GEOCHEMISTRY

Contour soil sampling involved collection of 154 samples taken from soil horizons B and C at 25 m intervals. 23 rock samples were taken from outcrops and boulders. Samples were analysed at Cominco's laboratory in Vancouver for: Au, Ag, Cu, Pb, Zn and As using standard geochemical techniques (Appendix III).

Soil sampling identified a 300 m long zone anomalous in Au, Cu, Pb, Zn and As. Anomalous values returning from the anomaly are summarized as follows: Au values range from 20-410 ppb, Cu 38-340 ppm, Pb 13-28 ppm, Zn 112-502 ppm, and As 42-144 ppm. Follow-up rock samples WR88276-277 were taken from bleached gossanous patches directly above the anomalous soil samples. The rock samples returned with anomalous zinc values of 829 ppm and 278 ppm, while gold and the other elements were below detection limits or very low.

Follow-up soil samples 64797-64800, taken below a gossanous zone, returned with consistently anomalous arsenic values ranging from 130-222 ppm.



Rock samples taken from mineralized patches in light-dark grey volcanics on the south side of the creek were anomalous in arsenic and silver and carried low gold values. The anomalous rock samples are summarized as follows:

Sample # ppb	Au ppm	Ag ppm	As ppm	Rock description
VR8889	10	1.5	1216	Float: Gossanous volcanic, grey weathered out pyrite
VR8890	20	1.6	1116	Outcrop: 20 cm calcite vein with massive pyrite blebs
VR8891	22	1.4	1650	Outcrop: calcite vein in silicified zone, massive pyrite patches.

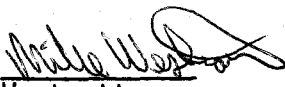
Sample MR88276, taken from a float boulder along the creek, yielded 1.9 ppm Ag, 4970 ppm Pb, 615 ppm Zn, and 96 ppm Cu.


#### CONCLUSIONS AND RECOMMENDATIONS

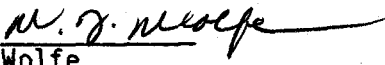
Contour soil sampling identified (1) a Au, Cu, Pb, Zn, As anomaly which extends over a six sample, 300 m length, and (2) an As anomaly continuous over 200 m. Both soil anomalies are located below locally gossanous andesitic volcanics. A bleached gossanous outcrop directly above the multi-element soil anomaly was sampled and found to contain only background levels of all elements except zinc, which was anomalous with values of 278 and 829 ppm. Arsenic values obtained from the two soil anomalies are interesting in that they are of similar magnitude (100-250 ppm) as those on the Hank gold property 1 km to the north. (ref. Assessment Report 12098).

Calcite veins 15-20 cm wide, containing 5-10% pyrite, are found in outcrop on the southeastern portion of the property. Samples obtained from the calcite veins were anomalous in As (1100-1650 ppm) and Ag (1.4-1.6 ppm).

Follow-up prospecting and soil sampling is recommended for the area northwest of the arsenic anomaly and in the vicinity of the calcite veins. The recommended areas for follow-up are illustrated on plate I. Any additional samples should be analysed for Hg and Sb, as they have proven useful as trace elements on the neighbouring Hank property.

Report by:   
M.G. Westcott  
Geologist

Endorsed by:   
I.A. Paterson  
Senior Geologist

Approved for  
Release by:   
W.J. Wolfe  
Manager, Exploration  
Western Canada

APPENDIX I

STATEMENT OF EXPENDITURES FOR PANKY 1 and 2 1988

The following expenses were incurred by Cominco Ltd. during a geochemical field investigation of the Panky 1 and 2 claims

SALARIES

Personnel	Period	Rate x Days =	
I.A. Paterson	July 11	\$350 x 2 =	700
A.B. Mawer	July 10, 11	\$350 x 2 =	700
M.G. Westcott	July 11, Sept 4, 88	\$163 x 2 =	326
R.A. VanEdmond	July 11, 88	\$138 x 1 =	138
G. Wober	July 11, 88	\$138 x 1 =	138
D. Owens	July 11, Sept 4, 88	\$100 x 2 =	<u>200</u>
			\$2202

ANALYTICAL COSTS

154 soil samples:	lab preparation 154 at \$1.00	=	154.00	
	Analyses (Au, Ag, As, Pb, Zn, Cu)			
	154 at \$14.50	=	2233.00	
23 rock samples:	lab preparation 23 at \$3.25	=	69.75	
	9 x (Au, Ag, Cu, As) at \$12.50	=	112.50	
	3 x (Au, Ag, Cu, Pb, Zn, As) at \$14.50	=	43.50	
	11x (Au, Ag, Pb, Zn, Cu) at \$10.75	=	<u>118.25</u>	
				\$2731

TRANSPORTATION

Helicopter + Fuel	2.5 hrs x \$550.00 =	1375	
			\$1375

DOMICILE

9 man days at Cominco-Delaware Snip Camp			
\$60/man-day	9 x \$60 =	\$540	\$540

DATA COMPILATION AND REPORT PREPARATION

M.G. Westcott	4 days at \$163/day =	\$652	\$652
---------------	-----------------------	-------	-------

TOTAL      \$7500

APPENDIX II

GEOCHEMISTRY RESULTS

field #	Lab #	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm
64705	6342	10	.4	42	7	37	185
64706	6343	10	.4	28	30	22	218
64824	6190	10	.4	37	6	72	35
64825	6191	10	.4	25	8	45	19
64826	6192	10	.4	27	8	45	33
64827	6193	10	.4	27	10	54	25
64828	6194	10	.4	23	9	55	22
64829	6195	10	.4	24	9	55	17
64830	6196	10	.4	20	11	39	14
64831	6197	10	.4	22	12	46	25
64832	6198	10	.4	14	10	40	22
64833	6199	10	.4	22	9	63	23
64834	6200	10	.4	19	11	51	22
64835	6201	10	.4	25	10	47	40
64836	6202	10	.4	18	18	36	53
64837	6203	10	.4	15	6	28	8
64838	6204	10	.4	15	8	58	27
64839	6205	10	.4	15	8	55	30
64840	6206	10	.4	6	10	17	23
64841	6207	10	.4	12	10	24	5
64842	6208	10	.4	21	6	23	8
64843	6209	10	.4	22	6	59	7
64844	6210	10	.4	21	10	47	5
64845	6211	10	.4	22	25	23	26
64846	6212	10	.4	19	13	25	10
64847	6213	10	.4	21	13	26	13
64848	6214	10	.4	44	11	36	9
64849	6215	10	.4	17	19	35	7
64850	6216	10	.4	16	11	37	8
64666	6217	11	.4	24	8	76	45
64667	6218	10	.4	23	7	95	42
64668	6219	10	.4	23	10	89	28
64669	6220	10	.4	26	10	96	41
51833	6346	10	.4	21	11	28	32
51834	6347	10	.4	16	8	30	7
51825	6344	10	.4	13	10	37	8
51826	6345	10	.4	42	5	85	34
64801	6167	10	.4	8	10	19	39
64802	6168	10	.4	6	6	14	28
64803	6169	10	.4	10	8	37	22
64804	6170	10	.4	2	5	13	6
64805	6171	10	.4	5	11	19	14
64806	6172	10	.4	4	5	6	11
64807	6173	10	.4	6	8	29	12
64808	6174	10	.4	12	5	43	2
64809	6175	10	.4	20	10	68	5
64810	6176	17	.4	18	10	44	11
64811	6177	10	.4	11	7	51	14
64812	6178	10	.4	7	6	20	2
64813	6179	10	.4	9	7	52	7
64814	6180	10	.4	12	6	43	13
64815	6181	10	.4	10	7	54	12

64816	6182	10	.4	8	8	44	12
64817	6183	10	.4	1	14	4	71
64818	6184	10	.4	1	9	9	38
64819	6185	10	.4	9	7	33	27
64820	6186	10	.4	1	22	9	18
64821	6187	10	.4	6	11	22	27
64822	6188	10	.4	13	11	27	10
64823	6189	10	.4	11	9	40	9
64601	6252	69	.4	37	9	40	137
64602	6253	67	.4	20	15	35	184
64603	6254	10	.4	2	7	6	21
64604	6255	10	.4	4	8	9	25
64605	6256	12	.4	6	13	18	22
64606	6257	10	.4	25	36	24	52
64607	6258	10	.4	32	38	26	20
64608	6259	10	.4	23	19	36	15
64609	6260	10	.4	37	5	22	2
64610	6261	10	.4	14	8	30	26
64611	6262	11	.4	8	13	24	46
64612	6263	10	.6	36	15	28	23
64613	6264	10	.4	33	5	37	23
64614	6265	10	.4	23	6	78	19
64615	6266	10	.4	32	13	42	29
64616	6267	10	.4	6	8	13	35
64617	6268	10	.4	7	4	48	2
64618	6269	10	.4	13	4	44	3
64619	6270	10	.4	9	10	63	9
64620	6271	21	.4	29	4	41	2
64621	6272	10	.4	25	10	41	17
64622	6273	10	.4	15	7	49	13
64623	6274	10	.4	18	4	73	3
64624	6275	10	.4	32	7	72	20
64625	6276	10	.4	26	4	68	25
64626	6277	10	.4	16	8	76	52
64627	6278	10	.4	25	4	45	16
64628	6279	10	.4	28	7	71	31
64629	6280	10	.4	26	5	68	35
64630	6281	10	.4	17	4	71	16
64631	6282	10	.4	19	4	75	28
64632	6283	10	.4	21	4	95	22
64633	6284	10	.4	16	4	73	26
64634	6285	10	.4	21	4	135	20
64635	6286	11	.4	16	4	90	24
64636	6287	10	.4	24	6	92	41
64637	6288	10	.7	20	8	58	388
64638	6289	10	.4	32	4	60	10
64639	6290	10	.4	34	4	45	2
64640	6291	10	.4	25	4	53	13
64641	6292	10	.4	32	4	77	8
64642	6293	10	.4	29	12	66	5
64643	6294	10	.4	7	14	23	48
64644	6295	12	.4	10	16	43	19
64645	6296	10	.4	13	16	29	51
64646	6297	12	.4	12	11	56	20
64647	6298	11	.4	13	9	42	13
64648	6299	10	.4	16	13	39	5
64649	6300	10	.4	18	13	33	11
64650	6301	10	.4	10	11	61	16
64651	6302	10	.4	13	22	43	6
64652	6303	10	.4	13	16	40	25

64653	6304	10	.4	11	10	119	6
64654	6305	10	.4	12	12	91	5
64655	6306	10	.4	10	11	49	18
64656	6307	20	.4	11	9	46	9
64657	6308	10	.4	12	9	89	13
64658	6309	10	.4	10	4	35	2
64659	6310	10	.4	21	6	93	55
64660	6311	10	.4	27	12	110	19
64661	6312	12	.4	23	4	49	2
64662	6313	10	.4	3	8	13	21
64663	6314	10	.4	6	14	27	26
64664	6315	20	.4	10	6	43	6
64665	6316	10	.4	9	6	18	22
64173	6317	20	.6	340	28	502	58
64174	6318	24	.4	126	13	285	42
64175	6319	27	.5	63	13	138	104
64176	6320	174	.4	72	14	133	144
64177	6321	28	.4	114	13	146	113
64178	6322	410	.6	38	14	112	115
64179	6323	58	.4	6	19	15	42
64180	6324	10	.4	5	8	4	2
64181	6325	30	.4	18	10	37	14
64182	6326	10	.4	5	8	9	4
64183	6327	10	.4	13	10	44	68
64184	6328	10	.4	2	8	1	2
64185	6329	10	.4	6	8	2	12
64186	6330	13	.4	5	11	5	34
64187	6331	19	.4	4	7	11	25
64188	6332	10	.4	3	8	8	6
64189	6333	10	.4	5	7	18	100
64190	6334	10	.4	4	8	12	27
64191	6335	20	.4	6	39	7	29
64192	6336	20	.4	7	15	4	22
64193	6337	10	.4	12	4	28	19
64194	6338	10	.4	14	6	52	6
64195	6339	10	.4	7	7	69	8
64196	6340	13	.4	52	14	92	22
64197	6341	10	.4	29	51	105	278
64797	2274	20	.4	18	42		194
64798	2275	11	.4	50	118		206
64799	2276	12	.4	25	11		222
64800	2277	10	.4	24	13		130

**PANKY CLAIM  
ROCK GEOCHEMISTRY**

Field#	Lab#	Au ppb	Ag ppm	Pb ppm	Zn ppm	Cu ppm	As ppm
WR88146	8185	10	.6			8	8
WR88147	8186	10	.4			7	2
WR88276	16025	10	.4	5	829	77	16
WR88277	16026	10	.4	11	278	22	30
WR88278	16027	10	.4	9	143	8	162
VR88889	8187	10	1.5			28	1216
VR88890	8188	20	1.6			33	1112
VR88891	8189	22	1.4			30	1650
VR88892	8190	10	.7			67	150
VR88893	8191	24	.5			62	756
VR88894	8192	10	1.3			12	245
VR88895	8193	10	.4			9	74
M88R258	8276	10	.4	5	66	21	
M88R268	8286	10	3.3	90	10	108	
M88R269	8287	10	1.0	4	69	11	
M88R270	8288	10	.4	4	54	12	
M88R271	8289	10	.4	4	35	16	
M88R272	8290	10	.4	48	28	34	
M88R273	8291	10	.4	29	56	32	
M88R274	8292	10	.4	4	44	5	
M88R275	8293	10	.4	4	256	13	
M88R276	8294	10	1.9	4970	615	96	
M88R277	8295	10	.4	5	19	21	



## APPENDIX III

### ANALYTICAL METHODS

All analyses were carried out at the Cominco Analytical laboratory in Vancouver.


<u>ELEMENT</u>	<u>Method</u>
Au -	Aqua Regia Decomposition/Solvent extraction/AAS.
Ag -	20% HNO <sub>3</sub> Decomposition/AAS
Cu -	20% HNO <sub>3</sub> Decomposition/AAS
Pb -	20% HNO <sub>3</sub> Decomposition/AAS
Zn -	20% HNO <sub>3</sub> Decomposition/AAS
As -	Pyrosulphate fusion/colorimetric

APPENDIX IV

I, Michael G. Westcott of 214-2025 West 1st Avenue, Vancouver, British Columbia, Canada, declare:

1. I am a geologist, residing at the above address
2. I graduated from the University of British Columbia in 1988 with a Bachelor of Science (Geology) degree.
3. I am an associate of the Geological Association of Canada.
4. This report is based on my personal field examination of the property and a review of all pertinent information.

Dated at Vancouver, B.C., this  
20 day of April, 1989.

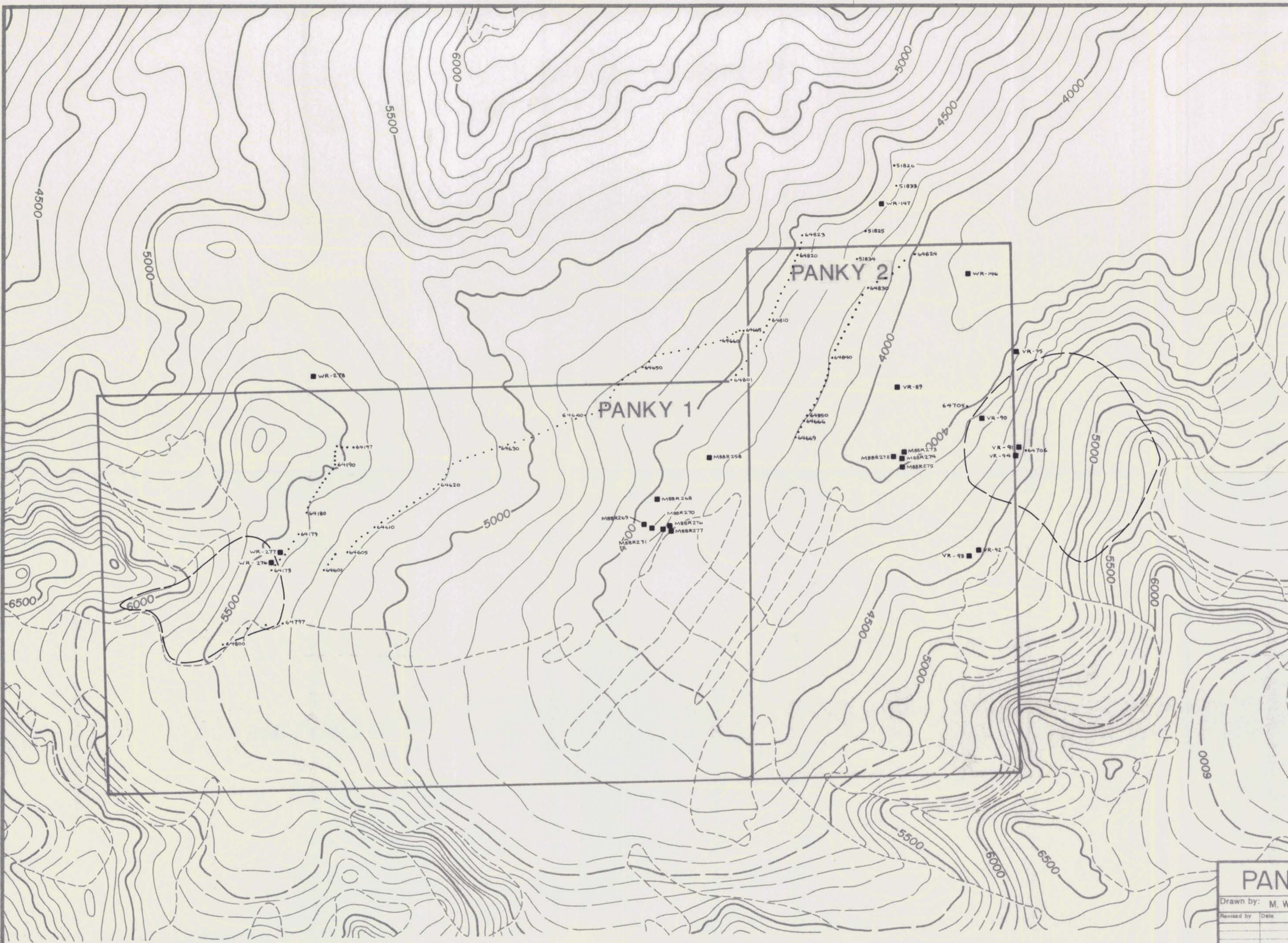
  
Michael G. Westcott  
Geologist

## APPENDIX V

### REFERENCES

- 1) Rein Turna, 1984, Mineral Assessment Report # 12098. Geological and geochemical assessment report on the Hank claim group, Report for Lac Minerals' Ltd.
- 2) Souther J.G. 1971. Gsc Map 11-1971, Geology of the Telegraph Creek Map sheet 104G.

DRAWN BY: H. P. HEWIS  
SCALE: 1:10,000



- Rock Sample
- Soil Sample
- - - Limit of Ice
- Claim Boundary
- Follow-up Recommended

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

18,721

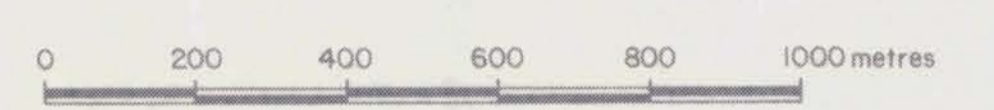
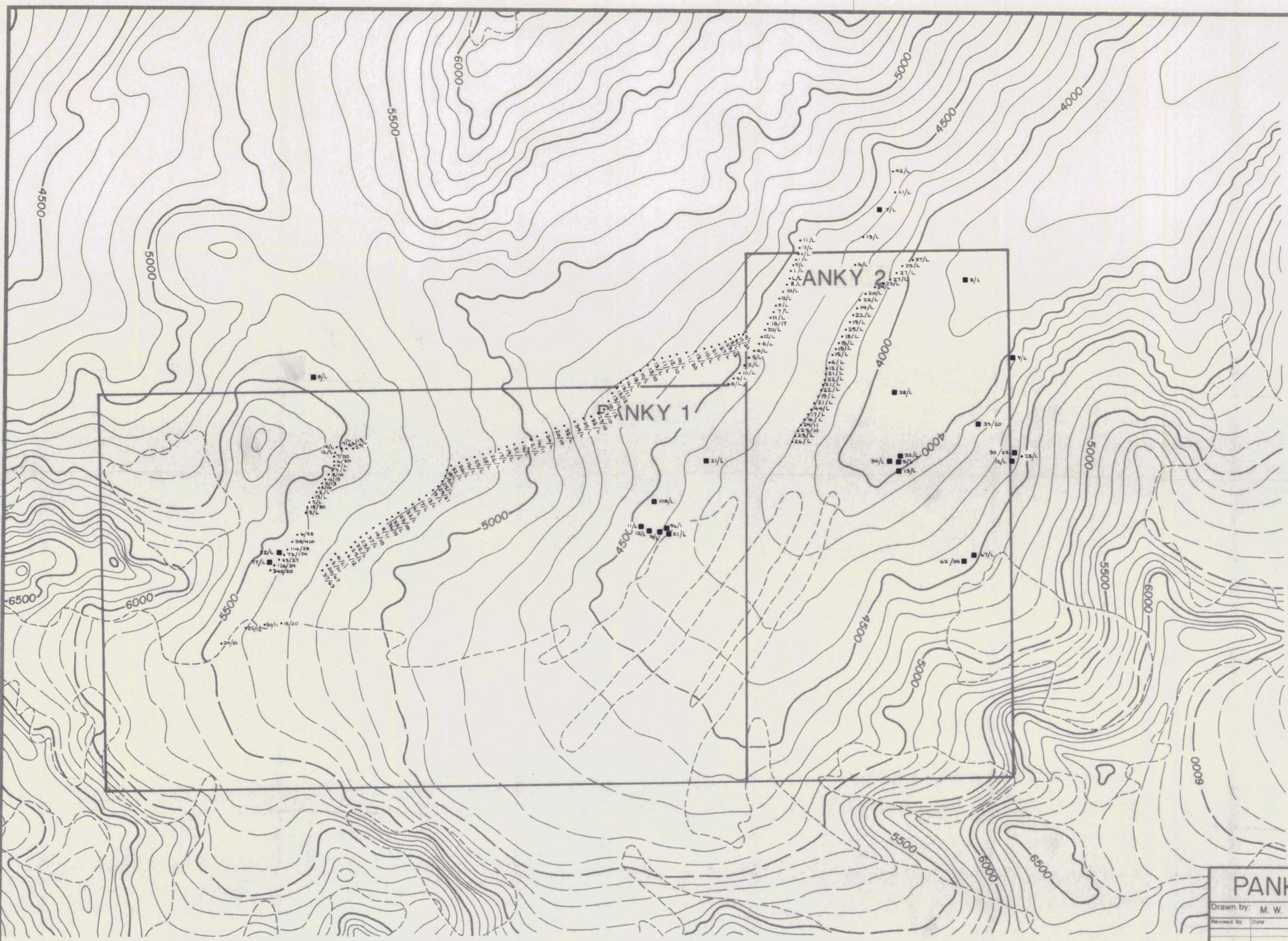


PLATE 1

PANKY PROPERTY				104 G/1	
Drawn by:	M. W.	Traced by:	H. P.		
Revised by:	Date:	Revised by:	Date:		
SAMPLE LOCATIONS				LIARD M.D., B.C.	
				Scale: 1 : 10,000	Date: April 24, 1989



- 37/2 Copper ppm/Gold ppb
- Rock Sample
- Soil Sample
- L Less than minimum detection limit
- / Sample not analysed for element

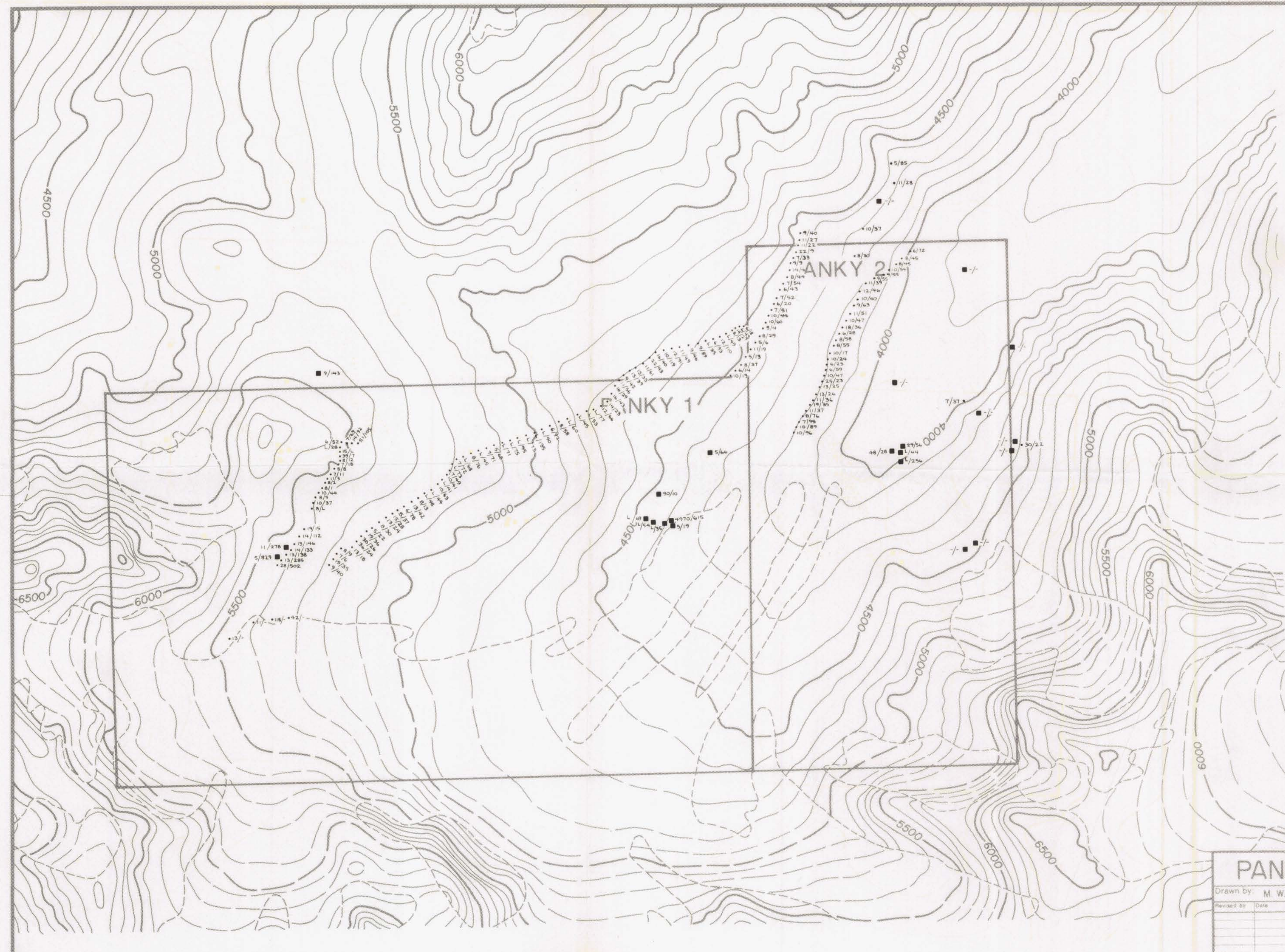
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

# 18,721



PLATE 2

PANKY PROPERTY				104 6/1	
Drawn by: M. W.	Traced by: H. P.				
Revised by: _____	Date: _____	Revised by: _____	Date: _____		
<b>Cu /Au GEOCHEMISTRY</b>					
LIARD M.D., B.C.					
Scale: 1 : 10,000	Date: April 24, 1989	Plate:			



- 30/22    Lead ppm / Zinc ppm
- Rock Sample
- Soil Sample
- L    Less than minimum detection limit
- /    Sample not analysed for element

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

18,721



PLATE 3

<b>PANKY PROPERTY</b>		104 6/1
Drawn by: M. W.	Traced by: H. P.	<b>Pb/Zn GEOCHEMISTRY</b>
Revised by:	Revised by:	
LIARD M.D., B.C.		Date: April 24, 1989
Scale: 1 : 10,000	Plate:	



- 1.4/56 Silver ppm / Arsenic ppm
- Rock Sample
- Soil Sample
- L Less than minimum detection limit
- / Sample not analysed for element

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

# 18,721



PLATE 4

PANKY PROPERTY



Drawn by:	M. W.	Traced by:	H. P.
Revised by:		Revised by:	
Date:		Date:	

**Ag/As GEOCHEMISTRY**  
 LIARD M.D., B.C.  
 Scale: 1 : 10,000    Date: April 24, 1989    Plate: