

GEOCHEMICAL REPORT

CANDY CLAIM

GOLDEN MINING DIVISION

NTS 82J/3E

C. Graf

October 1981

<u>WORK PERFORMED ON:</u>	<u>RECORD NO.</u>	<u>DATE RECORDED</u>
CANDY CLAIM	183	13 October 1977

Latitude: 50°13'N Longitude: 115°08'W

OPERATOR: C. Graf

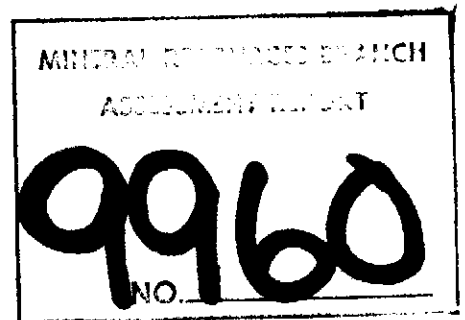


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PROSPECTING MAP

POCKET

CANDY CLAIM

GOLDEN MINING DIVISION

NTS 82J/3E

C. Graf

October 1981

SUMMARY

The 1981 mineral exploration program on the Candy claim consisted of prospecting, geological mapping and re-analysis of 360 soil samples for silver. The prospecting and mapping was carried out in order to locate and outline the sources of the significant flourine-lead-zinc soil anomalies outlined during previous work by Riocanex. Unfortunately, outcrop is poor over much of the main anomaly areas and the only mineralization observed is in float boulders. Riocanex attempted to reach bedrock by trenching in 1978 with a TD-20 caterpillar tractor, and in 1979 with a climbing backhoe. Both attempts were unsuccessful and the only recourse is to test the mineralized zones by diamond drilling. It was therefore necessary to accurately locate the source areas for the soil anomalies by geologic mapping and prospecting.

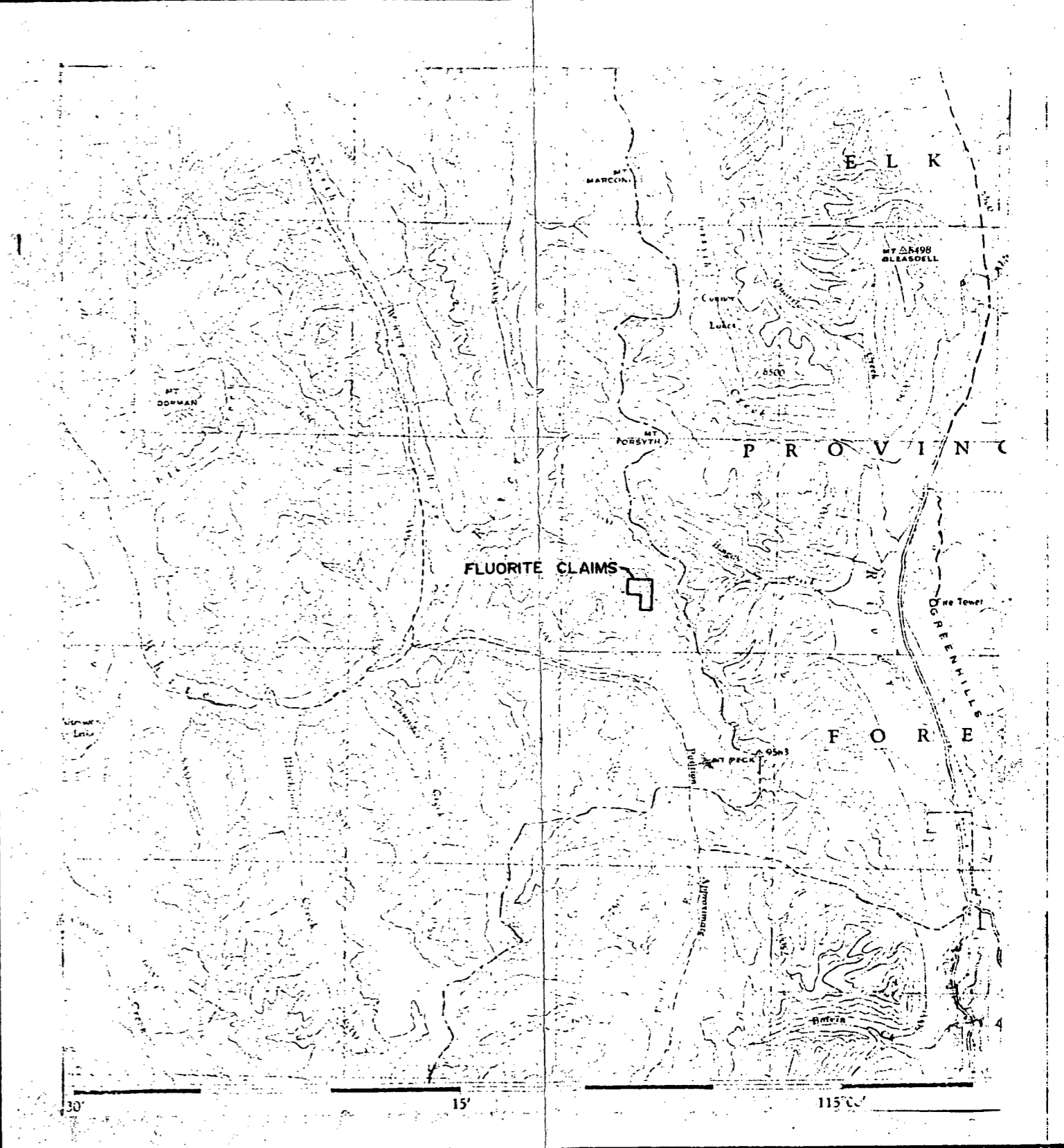
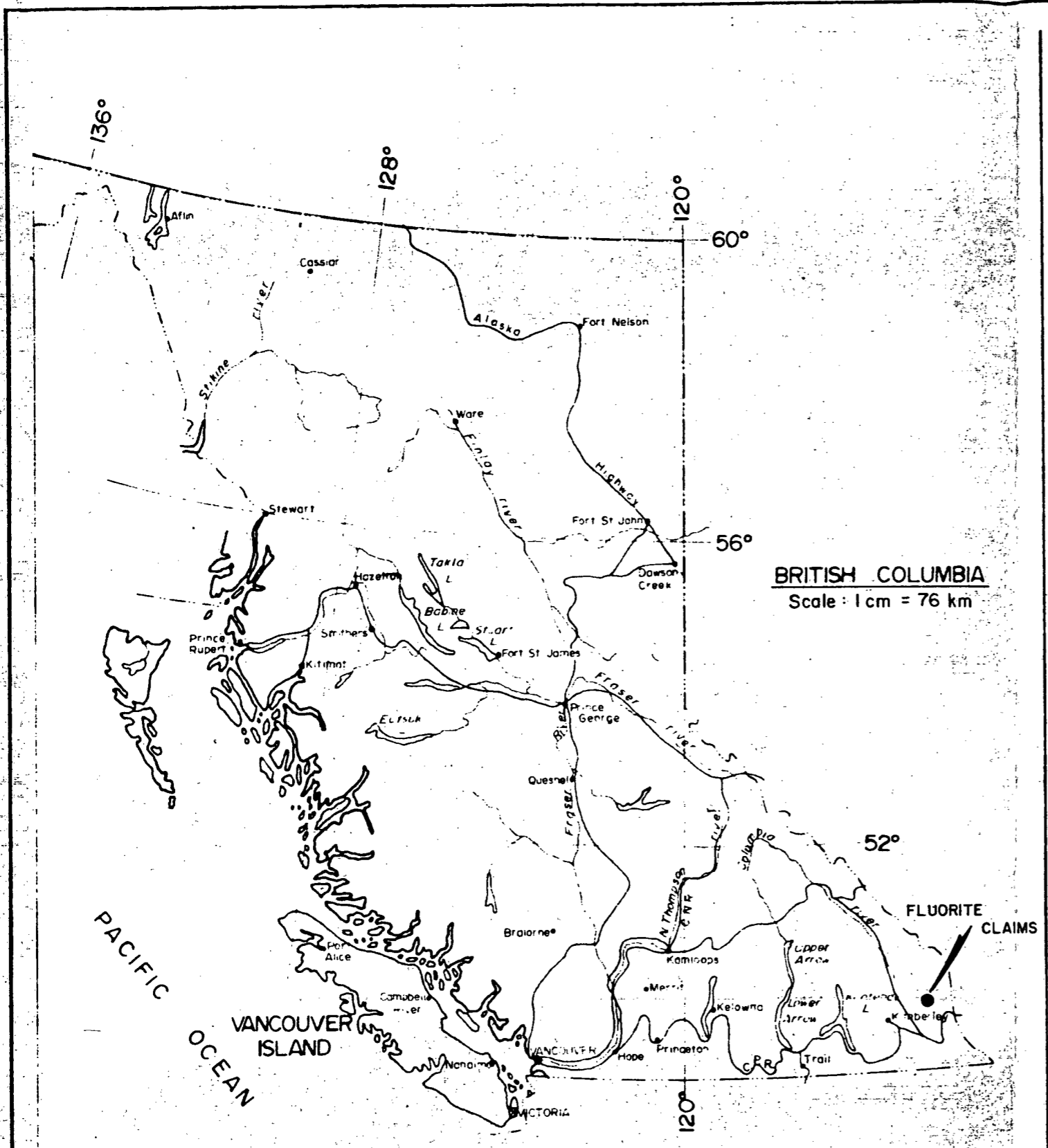
The soil samples, previously taken by Riocanex, were analyzed for silver in 1981, because any significant values in silver would greatly add to the economic potential of the mineralization on the property. No large silver soil

anomalies were located, only a few dozen spot highs up to the 4 and 5 ppm range, that correspond well with the lead-zinc anomalies.

The previous mapping was revised in order to apply formational names for the various carbonate units exposed on the property. As well a regional thrust fault that has long been recognized was located along the western portion of the claims. The importance of this fault zone to the mineralization is anticipated, however the relationship is yet unclear.

INTRODUCTION

In August of 1981 the writer carried out a limited program of prospecting and geological mapping on the Candy claim in order to locate the bedrock source for the large flourine-lead-zinc soil anomaly and associated flourite-bearing float. This work was necessary as previous attempts by Riocanex to test the float mineralization by trenching had failed to reach bedrock, and the next stage of exploration will be to diamond drill the property.



MINERAL RESOURCES BRANCH
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RIO TINTO CANADIAN EXPLORATION LTD
FLUORITE CLAIMS
LOCATION MAP
NOV. 1978 R.V.L. / s.g. Figure 1

LOCATION AND ACCESS

The Candy claim lies on the upper reaches of Canyon Creek in the eastern White River drainage (Figure 1). It is accessible by conventional vehicles along the White River Forestry Development road, which joins Highway 3A, 2 km south of Canal Flats. The property lies 40 km east of Canal Flats and the latitude and longitude are approximately $50^{\circ}13'N$, $118^{\circ}08'W$.

HISTORY AND PREVIOUS WORK

In 1977, Riocanex sponsored the Graf carbonate hosted lead-zinc reconnaissance project in the southern Rocky Mountains of British Columbia. A result of the work was the staking of the Deep Purple and Candy claims which cover a number of poorly exposed strata-form, barite-lead-zinc showings in Middle Devonian Burnais formation brecciated carbonates and evaporites.

In 1978, Riocanex carried out a program of prospecting, soil sampling, geological mapping and trenching with a TD-20 tractor to evaluate the claims. A large flourine-lead-zinc soil anomaly was outlined by the geochemistry, however the trenching program was unsuccessful in reaching bedrock, so that the showings were not exposed.

In 1979, Riocanex carried out further trenching with a climbing backhoe, in order to expose bedrock in three areas within the main soil anomaly. Unfortunately, again the trenches failed to reach bedrock, and the showings were still unexposed. Rather than mount an expensive diamond drilling program, Riocanex returned the property to the writer in 1981, as provided in the Graf lead-zinc reconnaissance agreement.

CLAIMS

The claims comprising the mineral property are listed below:

<u>CLAIM NAME</u>	<u>NO. OF UNITS</u>	<u>RECORD NO.</u>	<u>DATE RECORDED</u>
Deep Purple	18	154	21 July 1977
Candy	8	183	13 October 1977

WORK CARRIED OUT BY GRAF IN 1981

Work performed on the Candy claim in 1981 consisted of prospecting, geological mapping and analysis of 360 soil samples for silver. The prospecting and mapping was essential to locate the sources of the large soil anomalies which Riocanex had previously outlined, and to revise the previous mapping by both Riocanex and the G.S.C. The revisions include some substitution of conventional G.S.C. formational names for the units mapped on the property by Riocanex as well as some corrections to G.C.S. O.F. map #634. The main correction is in changing the age of the lowest part of the Devonian section which is exposed along the upper Bull River - White River Belt, from Upper Devonian to Middle Devonian.

The Devonian section now consists of basal red beds overlain by lower Middle Devonian dolomite of the Harrogate formation and predominantly gypsum evaporites of the Burnais formation. These units are conformably overlain by the Upper Devonian Fairholme, Sassenach and finally, Palliser carbonate

formations. The section exposed across the Deep Purple claim from west to east is now interpreted as Ordovician Beaverfoot formation, in fault contact with basal Devonian red beds, and Middle Devonian dolomites and evaporites of the Burnais and Harrogate formations. These units are conformably overlain by Upper Devonian Fairholme and Sossenach dolomites along the highridge to the east of the claim boundary. The fluorite-lead-zinc mineralization on the Candy claim occurs in brecciated evaporites and dolomite of the Middle Devonian Burnais formation. This is a correction of G.S.C. open file map # 634 which shows the Candy claim and therefore the fluorite to be underlain by Upper Devonian Fairholme and Palliser formations.

Over the mineralized portions of the claims, outcrop is sparse because of the recessive nature of the rocks, as well as a thick (20 m) blanket of glacial moraine or mud flow debris. As a result there has undoubtedly been some detrital and chemical dispersion from the mineralized zones. The main soil anomaly Fl (1000 ppm), Zn (100 ppm), Pb (50 ppm) is 1.5 km long by .75 km wide and despite the dispersion appears to outline a large mineralized zone.

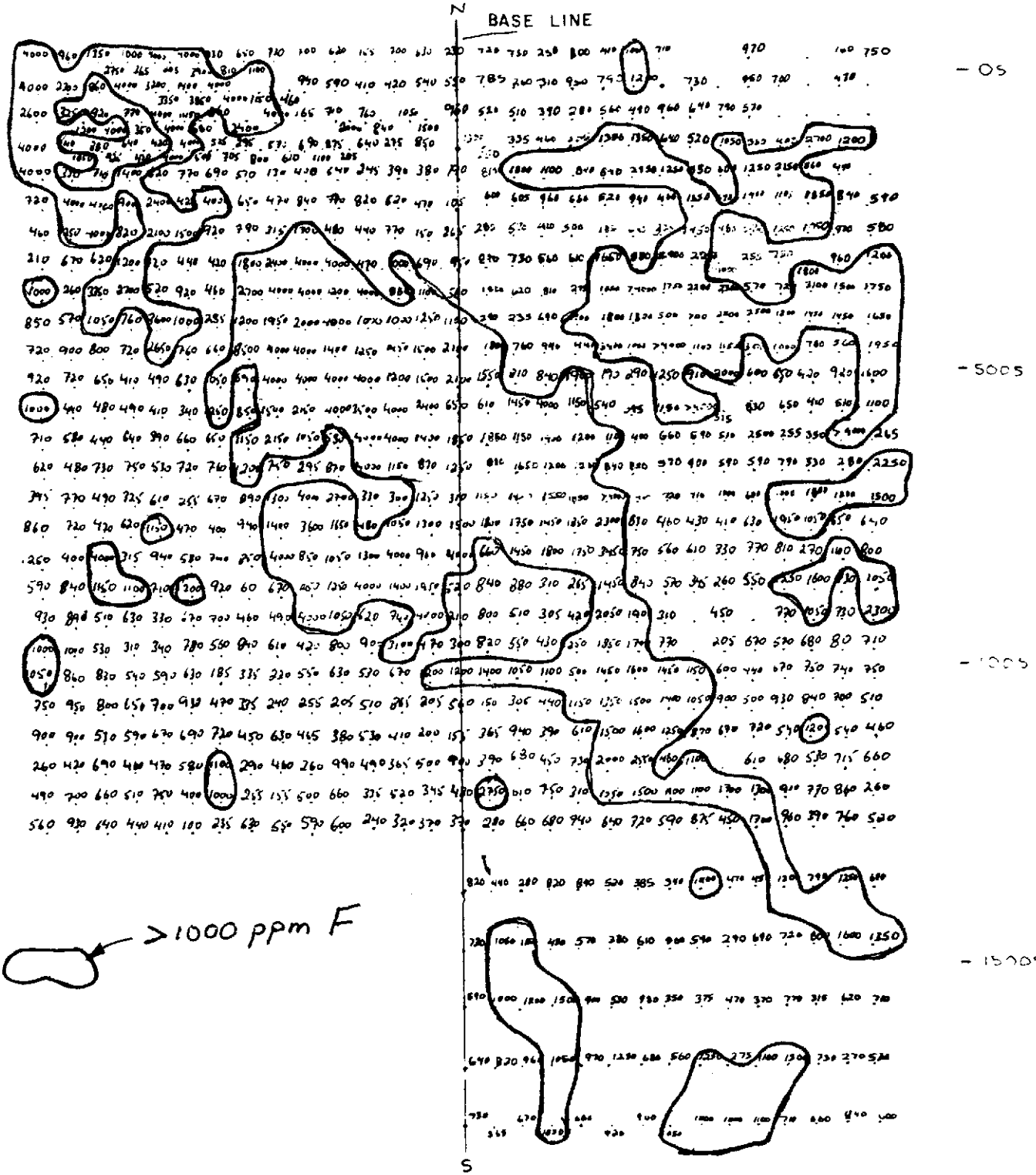
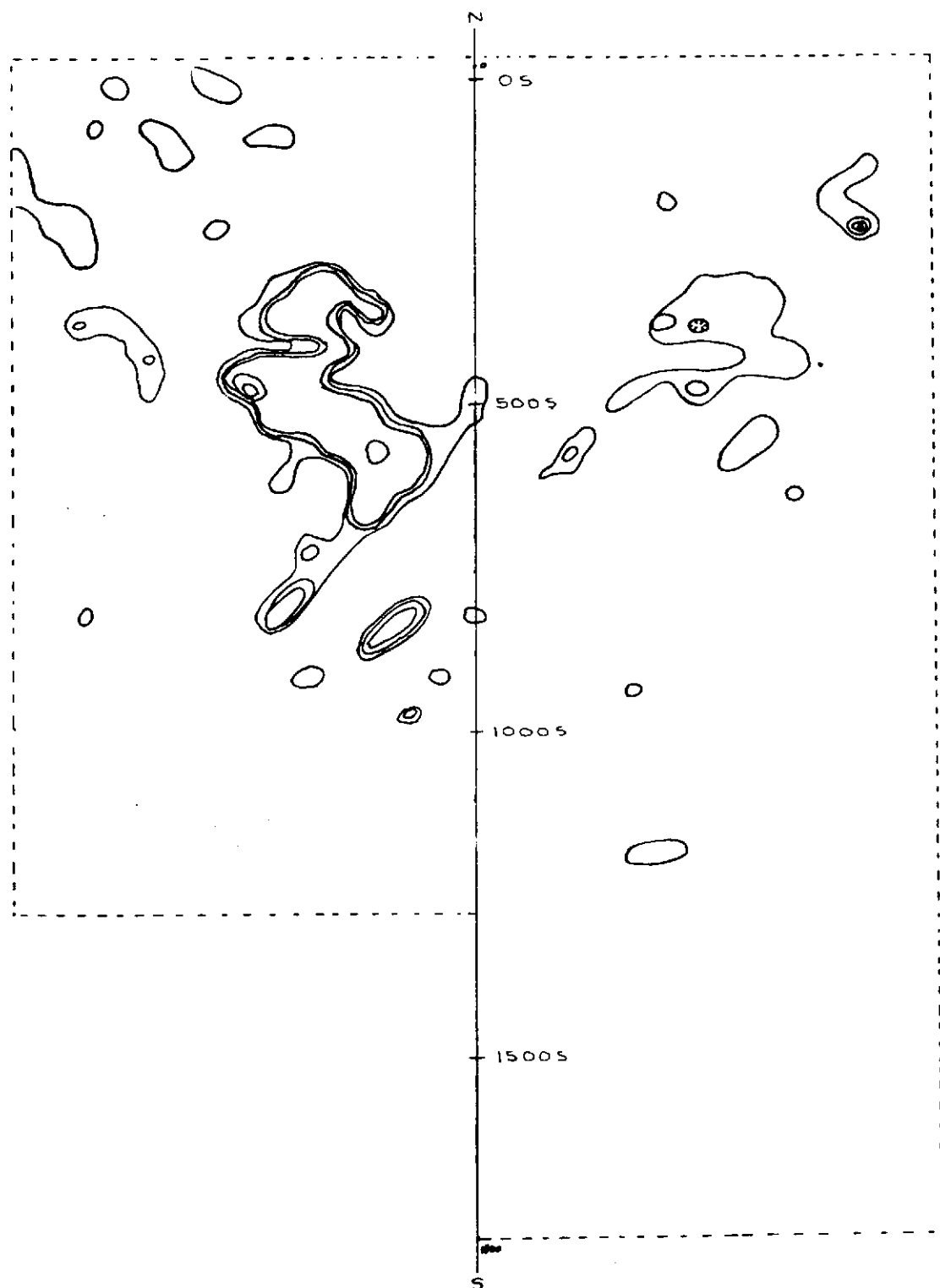
RESULTS

The prospecting was successful in that it determined the source of the fluorite and geochemical anomalies to be in solution brecciated zones within gypsum layers in the Middle Devonian Burnais formation. This formation strikes northwesterly

across the property, coincident with the main flourine anomaly and appears to be continuously mineralized (in subcrop) for 1000 m. Assay results from ten rock samples collected along this trend varied from .61% to 60.1% CaF_2 , and averaged 25% CaF_2 . These samples were found as float pieces, and unfortunately over at least 2/3 of the main soil anomaly, the bedrock is covered by a blanket of till. The main center of float flourite mineralization is reflected by the highest soil geochemical values on both sides of the southwest tributary of Canyon Creek, in the northwest portion of the old Riocanex soil grid.



The main lead-zinc anomaly also occurs in this area, but is slightly shifted to the west of the flourine anomaly. This zone should be drill tested, with a fence of 6 shallow diamond drill holes to a depth of 100 m.

The silver values (> 2 ppm) outline 2 separate anomalous areas, one in the West Central part of the old Riocanex soil grid, and one in the East Central part. These areas correspond reasonably well with the trends of the 2 main lead-zinc anomalies. The values though low, do indicate that silver may be present in significant concentrations and should be assayed for, if a drilling program is undertaken.



MINERAL PROCESSING BRANCH
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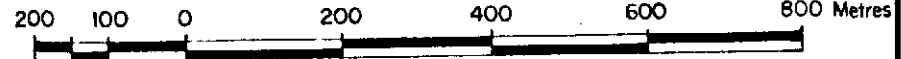
LEGEND

-  4000 ppm F
-  2000 ppm F

N.T.S. 82 J/3

450 700 ppm F

SCALE 1:10,000



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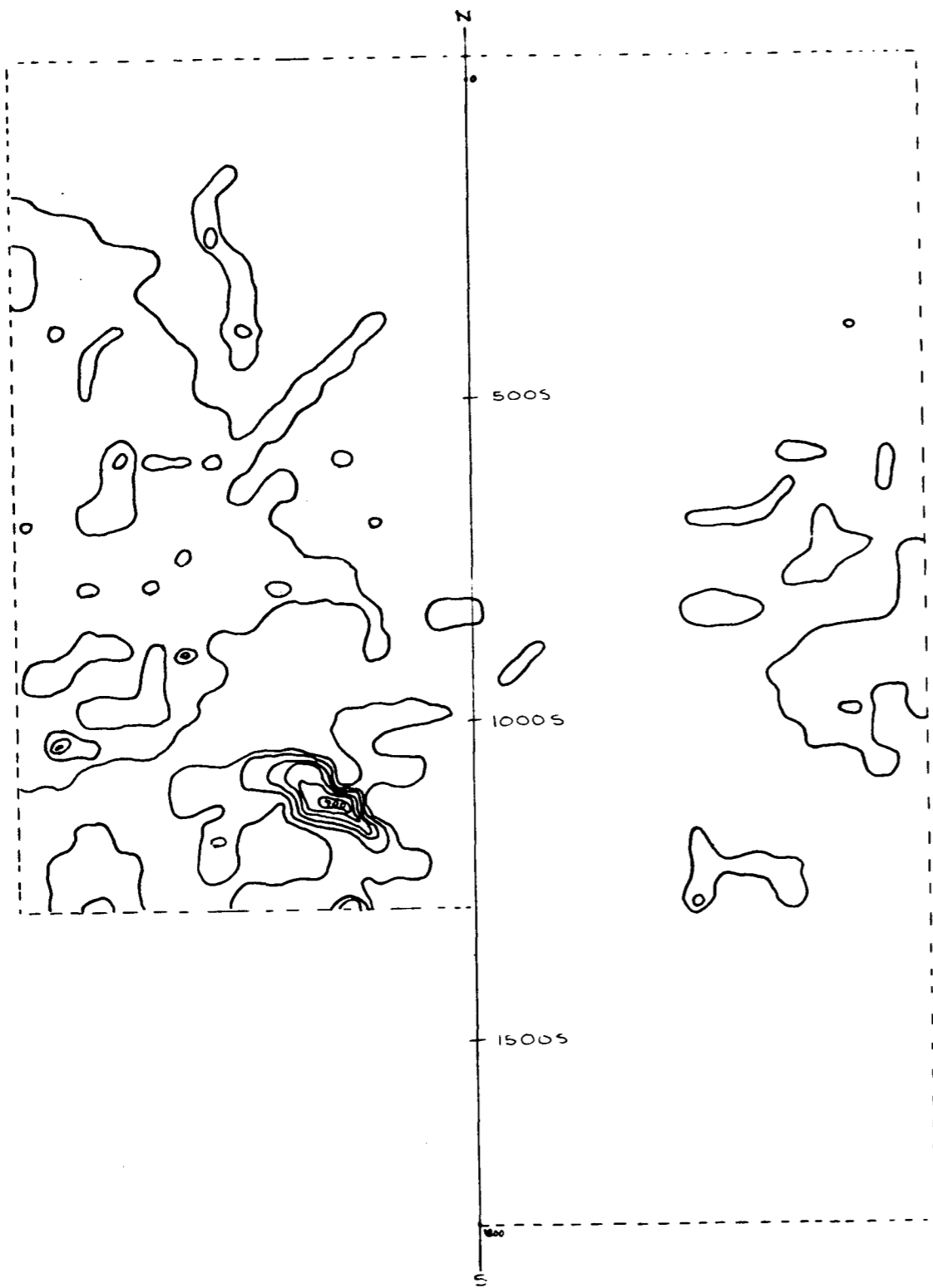
FLUORITE CLAIMS

GEOCHEMICAL RESULTS - FLUORINE

D. B.

NOV. 1978



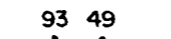

DWG.
Figure 3

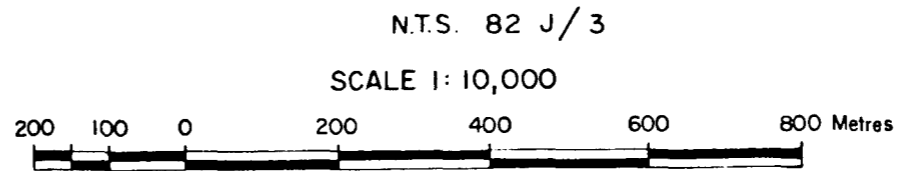


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104	55 108 106 67 94 66 53 43 11 15 55 25 28 32 26 19 16 27 35 37 53 53 57 27 57 30 28 41
92	91 55 50 73 28 90 65 93 49 47 10 7 23 9 18 18 20 24 34 51 52 48 63
82	79 107 77 137 60 61 65 117 77 63 29 21 12 13 16 19 16 15 22 33 43 34 34 50 50 44 26 52
93	80 77 59 101 83 60 74 41 32 39 55 48 98 81 13 17 17 17 6 4 58 77 50 47 44 33 37 80
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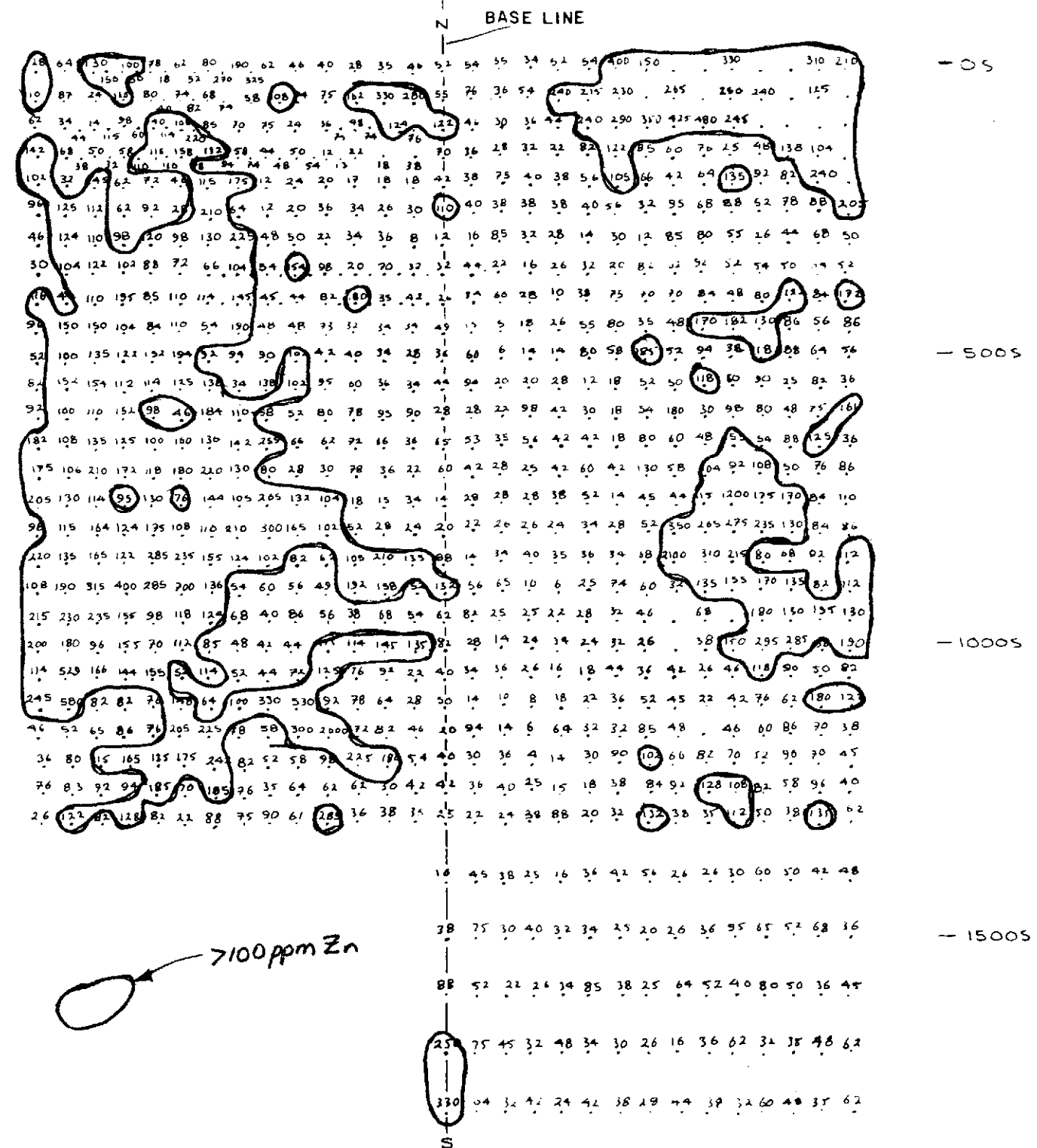
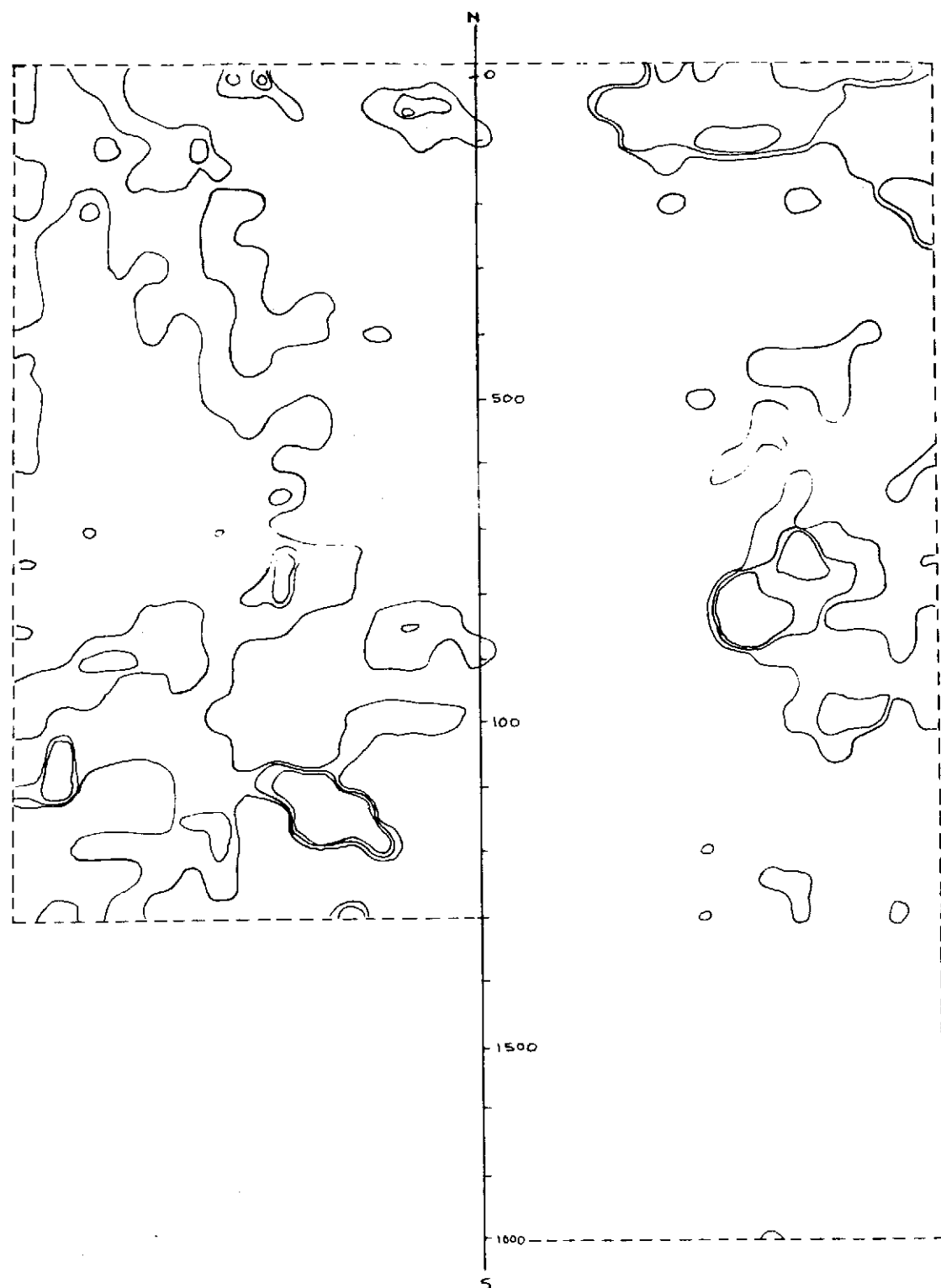
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
9960

LEGEND

-  150 ppm Pb
-  100 ppm Pb
-  50 ppm Pb
-  93 49 ppm Pb



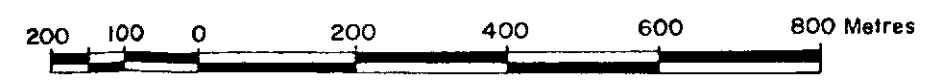
RIO TINTO CANADIAN EXPLORATION LTD.		
FLUORITE CLAIMS		
GEOCHEMICAL RESULTS - LEAD		
D. B.	NOV. 1978	DWG. Figure 4



ASSESSMENT REPORT
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 NO.

LEGEND

 300 ppm Zn
 200 ppm Zn
 100 ppm Zn
 88 95 ppm Zn



N.T.S. 82 J/3

RIO TINTO CANADIAN EXPLORATION LTD.		
FLUORITE CLAIMS		
GEOCHEMICAL RESULTS - ZINC		
D. B.	NOV. 1978	DWG. Figure 5

CONCLUSIONS

1. The claims cover a .75 km by 1.5 km zone of stratabound fluorite-barite-lead-zinc-silver mineralization, as outlined by prospecting and a soil grid survey. Prospecting has turned up fluorite-bearing float and bedrock mineralization up to 1 km north of the old Riocanex soil grid, showing the zone to have a strike length of 2 km.
2. The main mineralized zone is stratabound and occurs within a solution brecciated gypsum-bearing carbonate horizon of the Middle Devonian Burnais or Harrogate Formations.
3. Diamond drilling of the areas in the soil grid that contain the highest values of fluorine, is the only way to test the property, as the glacial till overburden is too deep to expose by trenching. A fence of 6 holes, each to a depth of 100 m. is warranted to test the main .75 km wide by 1.5 km long soil anomaly.
4. The old Riocanex soil grid should be extended for 1 km to the northwest in order to define the continuation of the mineralized zone that was indicated by prospecting.

5. There is a significant content of fine grained pyrite associated with the flourite, and the entire soil anomaly, is overlain by rusty orange colored soil. An I.P. geophysical survey may locate the most intensely mineralized zones at depth and thereby outline drill targets.
6. Four samples of flourite were assayed for barium and returned 5% Ba. Barium should be assayed for, if a drill program is initiated.
7. Two rusty, flourite veined samples were sent to a special laboratory to be analyzed for rare earth minerals, and were found to contain 1% rare earths of the heavy Yttrium end of the group. The rare earth potential of the property should be evaluated by further assaying of rock samples, soil samples, and diamond drill core.

APPENDIX I

SOIL SAMPLE RESULTS

COMPANY Chris Graf

GEOCHEMICAL ANALYSIS DATA SHEET

No. 1-180

PROJECT No.: 8651

MIN - EN Laboratories Ltd.

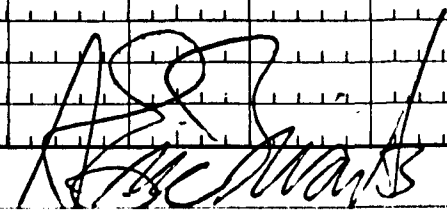
DATE: May 20,

ATTENTION: Chris Graf

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

1981.

Sample No.	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
	Co ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb				
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
7.832.259								33								
60								25								
61								23								
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86								14								
87								08								
7.832.288								08								

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COMPANY Chris Graf

PROJECT No.: 8651

ATTENTION: Chris Graf

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

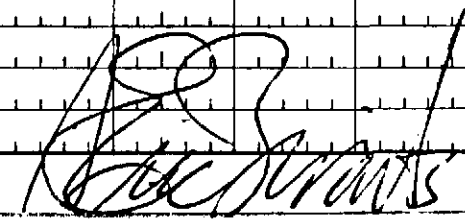
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

No. 1-180

DATE: May 20

1981.

Sample Number	10 Pb ppm	15 Cu ppm	20 Pb ppm	25 Zn ppm	30 Ni ppm	35 Co ppm	40 Ag ppm	45 Fe ppm	50 Hg ppb	55 As ppm	60 Mn ppm	65 Au ppb	70	75	80
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	160
783228	9						08								
90							08								
91							26								
92							27								
93							17								
94							11								
95							12								
96							14								
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98							07								
99							11								
783230	0						13								
01							21								
02							07								
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04							08								
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16							12								
17							38								
783231	8						16								

CERTIFIED BY 

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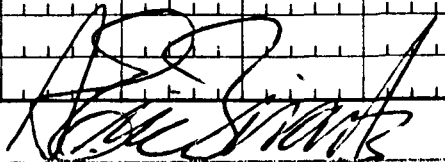
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

No. 1-180

DATE: May 20,

1981.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	70	75	80	
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
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20							2.5									
21							1.4									
22							1.5									
23							2.5									
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25							1.1									
26							1.7									
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33							1.1									
34							2.0									
35							3.0									
36							1.3									
37							1.9									
38							1.3									
39							1.4									
40							1.1									
41							1.3									
42							1.2									
43							1.5									
44							1.4									
45							1.7									
46							1.9									
47							1.1									
783234	8						4.5									

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GEOCHEMICAL ANALYSIS DATA SHEET

No. 1-180

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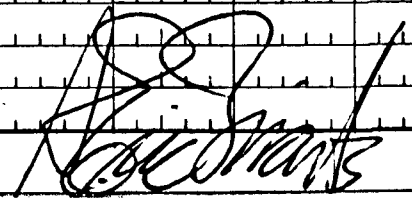
DATE: May 20

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

1981.

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Sample. Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	70	75	80	
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
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75								1.2								
76								1.4								
77								1.2								
7832378								1.2								

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PHONE (604) 980-5814

No. 1-180

DATE: May 20,

1981.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	70	75	80	
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05							1.2									
06							1.4									
07							0.9									
7832408							1.8									

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PHONE (604) 980-5814

No. 1-180

DATE: May 20

1981.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	70	75	80	
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
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37							14									
7832438							10									

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ATTENTION: Chris Graf

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

No. 1-180

DATE: May 20,

1981.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb				
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
7832439							13									
40							11									
41							15									
42							10									
43							12									
44							12									
45							14									
46							12									
47							11									
48							11									
49							11									
50							10									
51							11									
52							10									
53							12									
54							12									
55							10									
56							12									
57							13									
58							9									
59							13									
60							7									
61							8									
62							10									
63							15									
64							16									
65							13									
7832466							11									
7832468							15									
7832469							14									

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CERTIFIED BY

COMPANY Chris Graf

GEOCHEMICAL ANALYSIS DATA SHEET

No. 1-180

PROJECT No.: 8651

MIN - EN Laboratories Ltd.

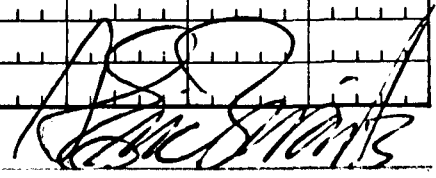
DATE: May 20,

ATTENTION: Chris Graf

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

1981.

Sample No.	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
Number	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb				
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
7,8,3,2,5,3	2							9								
7,8,3,2,5,3	4							14								
	5							10								
	6							14								
	7							15								
	8							5								
	9							3								
	40							6								
	41							6								
	42							9								
	43							10								
7,8,3,2,5,4	4							7								
7,8,3,2,5,4	6							10								
	47							11								
	48							10								
	49							17								
	50							16								
	51							15								
	52							10								
	53							10								
	54							9								
	55							4								
	56							8								
	57							7								
	58							7								
	59							7								
	60							7								
	61							8								
	62							10								
7,8,3,2,5,6	3							9								

CERTIFIED BY: 

COMPASS Chris Graf

PROJECT No.: 8651

ATTENTION: Chris Graf

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

No. 1-180

DATE: May 20

1981.

Sample. No	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
Number	%	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb					
	81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
7832564									18								
65									9								
66									6								
67									4								
68									3								
69									6								
70									8								
71									8								
72									14								
73									8								
74									7								
75									9								
76									12								
77									9								
78									8								
79									9								
80									8								
81									11								
82									9								
83									10								
84									8								
85									6								
86									11								
87									10								
88									10								
89									15								
90									25								
91									23								
92									18								
7832593									18								

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COMPAN Chris Graf

PROJECT No.: 8651

ATTENTION: Chris Graf

GEOCHEMICAL ANALYSIS DATA SHEET


MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

No. 1-180
DATE: May 20

1981.

Sample No.	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	70	75	80
81	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
7832594							7								
95							7								
96							8								
97							8								
98							8								
99							10								
7832600							11								
01							12								
02							14								
03							18								
04							15								
05							15								
06							28								
07							20								
08							11								
09							11								
10							3								
11							2								
12							8								
13							8								
14							7								
15							7								
16							7								
17							10								
18							13								
19							33								
20							17								
21							16								
22							19								
7832623							6								

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COMPANY Chris Graf

PROJECT No.: 8651

ATTENTION: Chris Graf

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

No. 1-180

DATE: May 20

1981.

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
	As ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb					
	81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
7832624								12									
25								10									
26								7									
27								10									
28								22									
29								17									
30								26									
31								17									
32								14									
33								7									
34								13									
35								10									
36								8									
37								9									
38								35									
39								11									
40								11									
41								12									
42								26									
43								36									
44								11									
45								16									
46								12									
47								16									
48								13									
49								11									
50								16									
51								10									
52								14									
7832653								14									

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COMPANY Chris Graf

PROJECT No.: 8651

ATTENTION: Chris Graf

GEOCHEMICAL ANALYSIS DATA SHEET

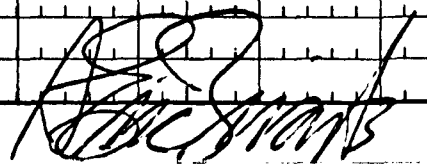
MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

No. 1-180

DATE: May 20,
1981.

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
	Co	Cu	Pb	Zn	Ni	Co	Ag	Fe	Hg	As	Mn	Au				
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb				
81	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	
7832654							1.4									
55							.9									
56							1.0									
57							1.4									
58							1.4									
59							2.7									
60							1.3									
61							1.1									
62							3.7									
63							.9									
64							.9									
65							1.0									
66							.9									
67							.9									
68							1.6									
69							1.5									
70							.9									
71							1.1									
72							1.2									
73							1.6									
74							1.6									
75							.8									
76							1.3									
77							1.8									
78							.8									
79							.8									
80							.9									
81							.8									
82							2.5									
7832683							.7									

CERTIFIED BY 

APPENDIX II

COST STATEMENT

COST STATEMENT

CANDY CLAIM

AUGUST 12-20, 1981

<u>WAGES</u> , 8 man days @ \$ 200/man day	\$ 1,600.00
<u>GEOCHEMICAL ANALYSIS</u>	
Min-En Laboratories, 360 soils for silver @ \$2.00 each	720.00
<u>FOOD</u>	
8 man days @ \$ 20/man day	160.00
<u>GASOLINE</u>	150.00
<u>SUPPLIES</u>	50.00
<u>TYPING AND PHOTOCOPYING</u>	50.00
TOTAL	<u>\$ 2,730.00</u>

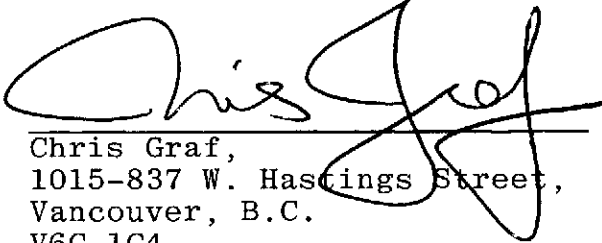
APPENDIX III

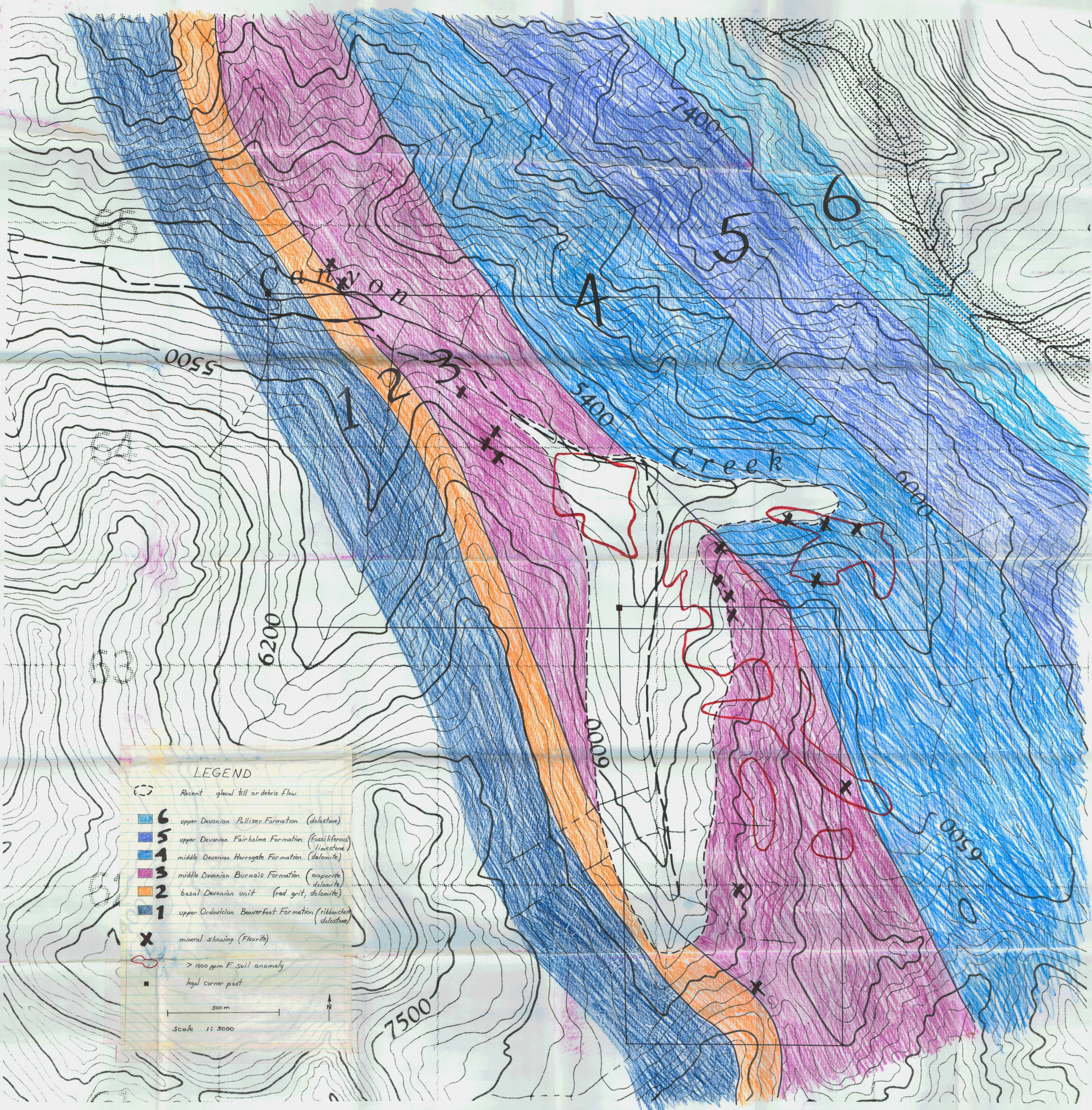
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS











I, CHRIS GRAF, do hereby declare that:

- (1) I graduated from the University of British Columbia, Vancouver, British Columbia in 1974 with a B.Ap.Sc. Degree in Geological Engineering.
- (2) That I am a registered Professional Engineer in the Province of British Columbia.
- (3) That I have practised my profession for five years with numerous mining companies in British Columbia.


Chris Graf,
1015-837 W. Hastings Street,
Vancouver, B.C.
V6C 1C4



LEGEND

-  Recent glacial till or debris flow
-  6 upper Devonian Palliser Formation (dolostone)
-  5 upper Devonian Fairholme Formation (fossiliferous limestone)
-  4 middle Devonian Harrogate Formation (dolomite)
-  3 middle Devonian Burnais Formation (evaporite dolomite)
-  2 basal Devonian unit (red grit, dolomite)
-  1 upper Ordovician Beaverfoot Formation (ribbed dolostone)
-  mineral showing (Flourite)
-  > 1000 ppm F soil anomaly
-  legal corner post

500 m
Scale 1: 5000