

825409

GEOLOGICAL AND GEOCHEMICAL REPORT

on the
SUGARLOAF MINERAL CLAIMS

KAMLOOPS MINING DIVISION
BRITISH COLUMBIA

NTS 82 L 13E

(50° 56' 00" N, 119° 42' 45" W)

for
MARKIN RESOURCES LTD.

by
V. RYBACK-HARDY, P. Eng.

JULY 15, 1983

VLH CONSULTANTS LTD.
403-750 W. PENDER ST.
VANCOUVER, B. C.
V6C 2T7 (604) 687-6671

VLH CONSULTANTS LTD.

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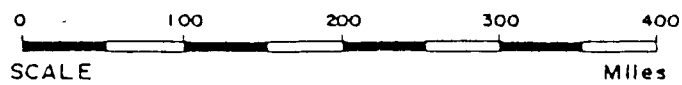


MARKIN RESOURCES LTD.
SHUSWAP LAKE AREA, B. C.

**SUGARLOAF CLAIMS GROUP
LOCATION MAP**

DATE: 83-07-07	JOB NO.: 83-23
APPROVED BY:	FIG. NO.:

▲ ▲ **BEMA INDUSTRIES LTD.**



SUMMARY

During 1981, under the direction of Mr. D. Sumners, a prospecting program was conducted on the Sugarloaf claims on Tsalkom Mountain near Adams Lake, B.C. The area was selected as the result of the recommendation of Mr. F. Markin who had recalled uncovering several mineralized quartz veins while constructing logging roads in the area some ten years earlier.

In October of the same year, a crew from Hinterland Resource Services Ltd. conducted a geochemical survey over the old Sugarloaf claims. While the geochemical survey was in progress, a trenching program under the direction of Messrs. D. Sumners and F. Markin uncovered several mineralized quartz veins carrying values in silver and molybdenum with minor values in lead and zinc. The widths of the vein varied from 0.5 to 2.0 m and averaged less than 1 metre.

Due to economic conditions in 1982 no further work was done on the property as no funds were available to continue the program commenced in October 1981. The geochemical survey and the physical work (trenching)

completed on the property was not recorded as assessment and the claims lapsed. The claims were restaked in December, 1982 (Rec. Nos. 4293 to 4303 incl.) and cover essentially the same ground covered by the old Sugarloaf claims. In addition, the Arm 1 to 4 mineral claims (Rec Nos. 4508 to 4511) were staked surrounding the Sugarloaf two-post claims.

Further work is recommended for the property to test for the extension of the vein trend to the southwest of the grid area (Oct. 81). The possibility of finding better grades of mineralization along strike and at depth warrants a phased program of exploration totalling about \$250,000 over two years. At this point a test of merit would be required to determine the advisability of proceeding to a full feasibility study. An interim report would be required at the end of the third phase outlined in the report.

INTRODUCTION

At the request of Mr. D. Sumners, president of Markin Resources Ltd., the author prepared this report to initiate an exploration program to determine the possibility of uncovering higher grade, more consistent mineralization

in several mineralized quartz veins cutting across the Sugarloaf claims. The author has examined the property and supervised the geochemical survey in 1981 on the old Sugarloaf claims. These claims lapsed and were subsequently re-staked (also called Sugarloaf). By examining the old claim affidavits it is relatively easy to correlate the workings on the old claims to the new Sugarloaf claims, as the same posts were used for the two sets of claims.

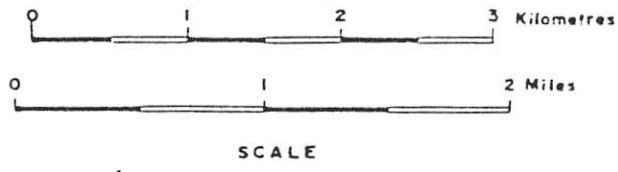
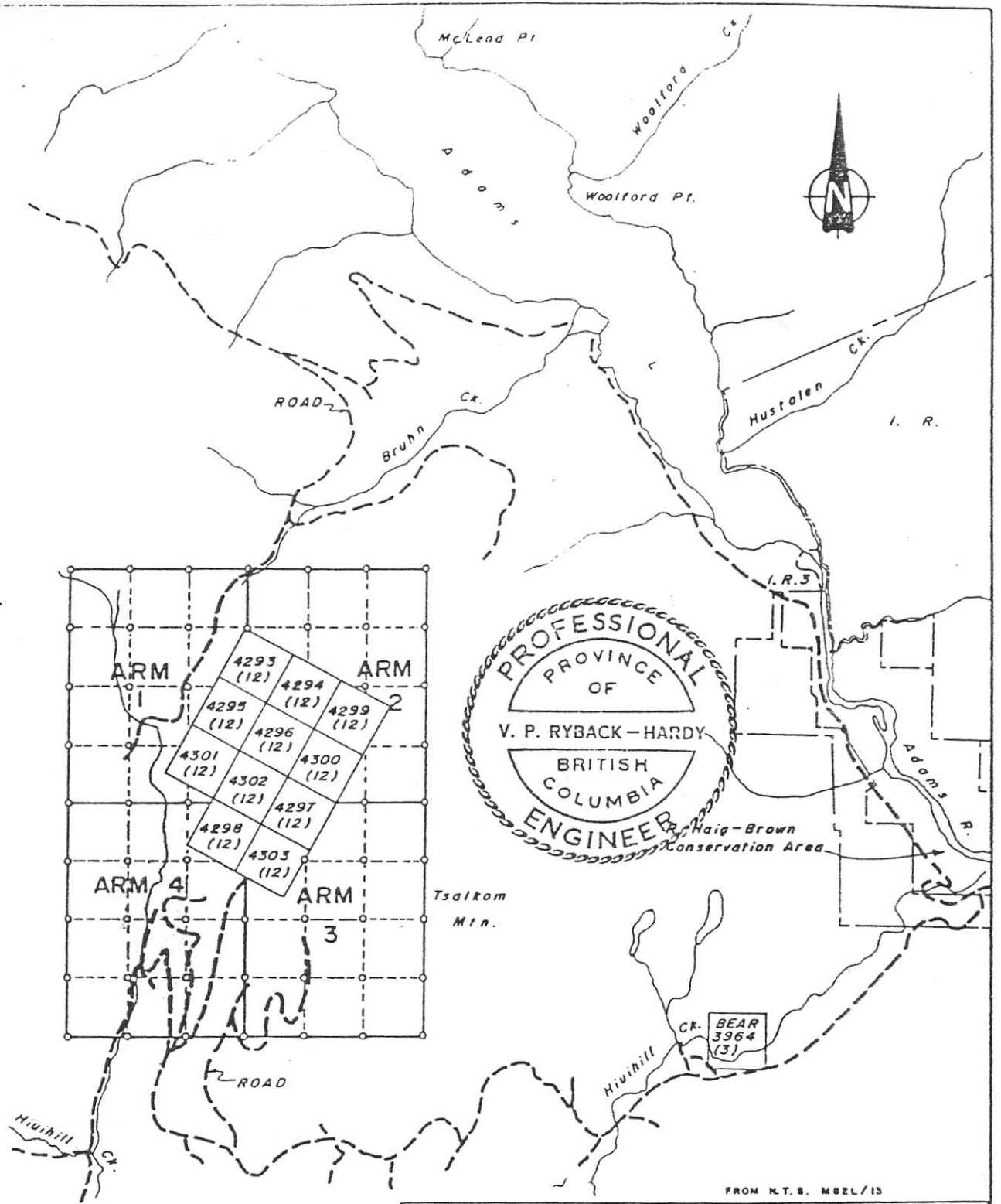
LOCATION AND ACCESS (119° 43 W, 50° 56 N)


The property is located in the Kamloops Mining Division and is shown on the Ministry of Energy Mines and Petroleum Resource mineral title reference map 82L/13E. The claims are more particularly located on the northwest slope of Tsalkom Mountain south of the headwaters of Bruhn Creek. Tsalkom Mountain is located 11 km due north of Chase B.C. Access to the property is by good gravel road commencing from the Adams Lake saw mill.

TOPOGRAPHY AND VEGETATION

The claims are located in the Shushwap Highlands and

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MARKIN RESOURCES	
ARM CLAIM GROUP KAMLOOPS MINING DIVISION	
DATE	83-06-15
JOB NO.:	83-23
APPROVED BY:	FIG NO 1
 BEMA INDUSTRIES LTD.	

elevations vary from 1560 metres to about 1050 metres. Slopes are moderate and the area is relatively easy to work. Much of the area has been logged and second growth consists mainly of balsam, fir, spruce and yellow cedar.

PROPERTY DEFINITION

The property consists of eleven two-post claims (Rec. Nos. 4293 to 4303 inclusive) and the Arm 1 to 4 mineral claims (Rec. Nos. 4508 to 4511). The record date of the two-post claims is December 30, 1982, and the record date for the grid claims is June 14, 1983. The author has not seen the new location posts. However, the new Sugarloaf claims were re-staked using the old location posts and previous exploration work can be correlated to the new claims. The Arm claims were staked on behalf of Markin Resources Ltd. by Bema Industries Ltd., a reputable mining services contractor. All claims are owned outright by Markin Resources Ltd.

The old Sugarloaf claims correspond to the new Sugarloaf claims as follows:

Old claims	New Claims (Rec. No.)
------------	-----------------------

Sugarloaf 43	4293
Sugarloaf 35	4294
Sugarloaf 34	4295
Sugarloaf 37	4296
Sugarloaf 31	4297
Sugarloaf 36	4298
Sugarloaf 44	4299
Suagrloaf 39	4300
Sugarloaf 41	4301
Sugarloaf 38	4302
Sugarloaf 40	4303

GEOLOGY

Regionally the area is underlain by schists, quartzite limestone and argillite of the proterozoic Shuswap Terrain of highly metamorphosed rocks. Locally, several quartz veins of varying widths cut greenstone and greenschist. The quartz veins are mineralized with galena, sphalerite, pyrite with some molybdenite. The quartz veins were mapped as shown on the attached plans.

It has been reported that a specimen sample

containing high grade sphalerite was recently found some distance to the southwest of 1981 grid area in what may be the extension of vein No. 3. This has not been verified by the author to date.

GEOCHEMISTRY

During October 1981 a grid consisting of approximately 11 line km of base line and cross lines were established on the property. Soil samples (231) were collected at 50 metre intervals along lines at 100 metre separations. The soils were collected using a mattock from the B horizon at an average depth of about 0.4 metres. The soils were analysed by the atomic absorption method. The rock samples were analysed using standard fire assay techniques.

The values were plotted at their respective sample sites and the results analysed. No statistical treatment of the values were done as a visual inspection showed an anomalous area to the southwest with a marked increase in geochemical zinc as the argillite sequence is approached. The high zinc in soil values may reflect the mineralization in vein No. 3 and indicates some continuity of the vein to

the southwest beyond the grid area.

CONCLUSIONS

The Sugarloaf claims cover an area containing several quartz veins carrying interesting values in silver, lead, zinc and molybdenum. At times, mineralization within the veins can be spectacularly high, although the mineralization is irregularly distributed. The soil geochemical results indicate that the vein mineralization responds poorly to geochemical prospecting. This may be due to the sample separation being too great for the narrow target being sought or that deep overburden may be masking heavy metal hydromorphic dispersion in the soils. A significant amount of information can be acquired by conducting a soil profile over an area of known mineralization and the determining the optimum horizon to sample. It may be that a closer spacing of sample sites (25 metres rather than 50 metres) may better define the narrow vein mineralization.

Further exploration is recommended for the property to the southwest of the 1981 grid area to determine if the veins continue along strike and if the grade and continuity

of mineralization improves in the vein as the vein cuts through the argillites.

RECOMMENDATIONS

In order to test the continuity and grade of the vein system the following program is recommended:

- (1) Geochemical Survey - A soil profile should be conducted over an area of known mineralization to determine the optimum horizon for sampling.
- (2) Geophysical Survey - An EM Survey should be conducted over the claim area to test for the occurrence of conductors (highly mineralized quartz veins)
- (3) Geological mapping and sampling to trace and delineate the veins
- (4) Trenching - to aid the above
- (5) Drilling - to test the veins at depth

PROJECT COSTS

PHASE I

Geochemical Surveys (approximately 500 samples)	\$10,000
Geological Mapping	5,000
Geophysical Surveys	10,000
Trenching	10,000
Assays	5,000
Support Costs	5,000
Reports and Contingency	5,000

Total	\$50,000

PHASE II

Trenching	\$10,000
Diamond Drilling 400 metres	50,000
Assays	5,000
Reports and Contingency	10,000

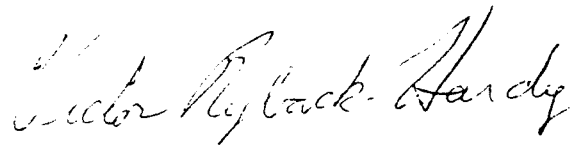
Total	\$75,000

PHASE III

Diamond Drilling	1000 metres	\$125,000
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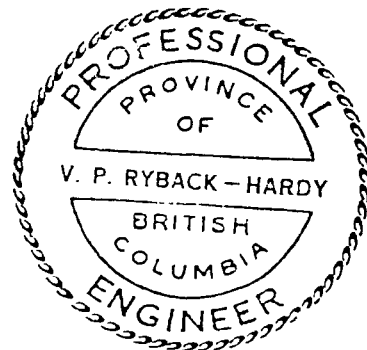
Each phase is contingent upon favourable results encountered in the previous phase.

Respectfully submitted,



V. Ryback-Hardy, P.Eng.

July 15, 1983



BIBLIOGRAPHY

Rice, H. M. A., Map 1059A, Geological Survey of Canada,
1945, 1946, 1947, and 1951.

STATEMENT OF QUALIFICATIONS

I, VICTOR PETER RYBACK-HARDY of Richmond, British Columbia, do hereby certify that:

1. I am a consulting Geological Engineer with offices at 403-750 W. Pender Street Vancouver, B. C., V6C 2T7.
2. I am a graduate of the University of British Columbia with a degree (B.A.Sc.) in Geological Engineering (Option II - Geophysics). I graduated in 1970.
3. I am a member of the Association of Professional Engineers of British Columbia, Registration No. 8825 (1972). I am also a commissioned British Columbia Land Surveyor, Commission No. 580 (1979)
4. I have been practising my profession as a Geological Engineer for 11 years.
5. I have no interest, nor do I expect to receive any interest, direct or indirect, in the properties or securities of Markin Resources Ltd.

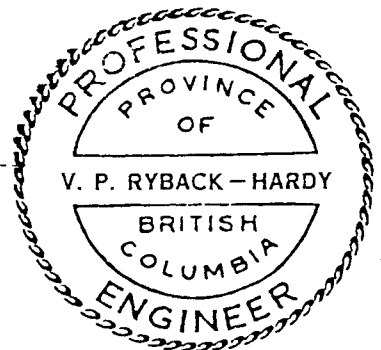
6. Markin Resources Ltd. is hereby given permission to reproduce this report, or any part of it, in a prospectus for financing purposes; provided, however, that no portion may be used out of context in such manner as to convey a meaning differing from that set out in the whole.

7. I examined the property in October 1981 while supervising the geochemical survey conducted by Hinterland Resource Services Ltd. The claims examined were allowed to lapse and were subsequently re-staked in Dec. 1982. To my knowledge, the present property consists of the same area with the addition of the new Arm claims. I have not examined the location posts of the new claims. To my knowledge, there has been no further assessment work performed on the claims since 1981. No guarantee of the boundaries of the claims can be given until such time as the claims are legally surveyed.

Dated at Vancouver, B. C. this 15th day of July, 1983.

V. P. Ryback-Hardy

 V. Ryback-Hardy, P.Eng., B.C.L.S



VLH CONSULTANTS LTD.

MIN-EN Laboratories Ltd.

705 WEST 15th STREET,
NORTH VANCOUVER, B.C., CANADA V7M 1T2
TELEPHONE (604) 980-5814

ANALYTICAL REPORT

Project Sugarloaf Chase Date of report Oct.29/81.
File No. 1-1038 Date samples received Oct.21/81.
Samples submitted by: V. Ryback-Hardy
Company: Hinterland Resources/Markin Resources
Report on: 231 soils Geochem samples
10 Assay samples

Copies sent to:

1. Markin Resources, Chase, B.C.
2. Hinterland Resources, Richmond, B.C.
- 3.

Samples: Sieved to mesh -80 soil Ground to mesh -100 assay

Prepared samples stored discarded
rejects assay stored discarded geochem

Methods of analysis: Geochem-nitric, perchloric digestion.A.A.

Assays-Mo, Pb, Zn, Ag-Acid digestion-chemical analysis.
Au-Fire Assay., WO_3 -Fusion-Colorimetric.

Remarks:

PROJECT

SUGARLOAF

GEOCHEMICAL SAMPLE DATA SHEET

AREA

CHASE, D.C.

MIN-EN Laboratories Ltd.

275 BEECH ST. NORTH ANDOVER, BC CANADA
PHONE (604) 990-5814

YEAR: 81

COLLECTOR: M.F.

Sample Number	Date D M	X West East Line	Y South North Station	Photo Number	Map Number	Type Charact.	Texture	Origin	Horizon	Color	pH	Eh	Width	Depth	Velocity	Slope +	Rock Sample	Min. +	Bio	Species	Field no.	Field ev.	X C F.D.
1	6 7 8 10	16	22	29		36 37 38	41	44	46	48	50		54	56	58 59		62	63 64 65 66	68	69 70 71			
64	12/10	700E	1000S			2	2/5			123					4								
65	12/10	700E	950S			2	2/5			121					3								
66	12/10	700E	900S			2	1/2			121					3								
67	12/10	700E	850S			2	1/2			121					3								
68	12/10	700E	800S			2	1/2			1/2					4								
69	12/10	700E	750S			2	1/2			1/2					3								
70	12/10	700E	700S			2	1/2			1/2					5								
71	12/10	700E	650S			2	1/2			121					4								
72	12/10	700E	600S			2	125			121					5								
73	12/10	700E	550S			2	125			1/2					3								
74	12/10	700E	500S			2	125			1/2					3								
75	12/10	700E	450S			2	125			1/2					4								
76	12/10	700E	400S			2	125			125					2								
77	12/10	700E	350S			2	123			125					2								
78	12/10	700E	300S			2	1/2			1/2					2								
79	12/10	700E	250S			2	125			1/2					4								
80	12/10	700E	200S			2	1/2			123					3								
81	12/10	700E	150S			2	125			121					5								
82	12/10	700E	100S			2	2/5			123					4								
83	12/10	700E	50S			2	1/2			1/2					5								
84	12/10	700E	00S			2	1/2			1/2					6								

PROJECT No.: Sugarloaf Chase

ATTENTION: V. Ryback-Hardy

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T7
PHONE (604) 980-5614

FILE NO. 1-103

DATE: Oct. 29
1981.

Sample Number	6 Mo ppm	10 Cu ppm	15 Pb ppm	20 Zn ppm	25 Ni ppm	30 Co ppm	35 Ag ppm	40 Fe ppm	45 Hg ppb	50 As ppm	55 Mn ppm	60 Au ppb	65	70	75
1		4		20	11.8			0.6							
2		1		13	5.5			0.5							
3		2		11	5.0			0.6							
4		1		11	3.9			0.4							
5		2		13	4.7			0.5							
6		1		8	4.0			0.4							
7		1		12	5.5			0.4							
8		1		10	8.2			0.5							
9		1		10	5.9			0.5							
10		1		14	4.7			0.7							
11		1		12	8.9			0.7							
12		1		14	6.0			0.7							
13		1		25	6.4			0.7							
14		1		12	5.5			0.5							
15		1		10	6.4			0.7							
16		1		11	6.2			0.5							
17		1		12	5.5			0.5							
18		2		9	5.2			0.4							
19		1		11	5.4			0.6							
20		3		11	8.7			0.6							
21		3		13	6.8			0.8							

Eric Ward

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7W 1T7
 PHONE (604) 980-5814

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
22	2		11	68			0.9					
23	2		15	70			0.5					
24	2		10	64			0.7					
25	2		11	66			0.6					
26	1		10	57			0.7					
27	1		12	100			0.5					
28	1		8	57			0.5					
29	1		13	62			0.7					
30	1		9	52			0.5					
31	1		25	41			0.5					
32	1		12	110			0.7					
33	1		8	78			0.4					
34	2		12	70			0.6					
35	4		9	63			0.6					
36	1		11	55			0.8					
37	1		13	63			0.7					
38	1		12	58			0.6					
39	1		10	47			0.7					
40	1		11	64			0.6					
41	1		12	63			0.7					
42	1		13	66			0.8					

COMPAN

 Markin Resources
 Interland Resources

GEOCHEMICAL ANALYSIS DATA SHEET

PROJECT No. Sugarloaf_Chase

MIN - EN Laboratories Ltd.

1-103

ATTENTION: V. Ryback-Hardy

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2

DATE: Oct. 25

PHONE: 604-980-8814

1981.

Sample Number	Mg ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb
86	90	95	100	105	110	115	120	125	130	135	140	145
43	4		12	53			0.6					
44	3		12	52			0.7					
45	1		14	68			0.6					
46	2		10	52			0.7					
47	4		15	77			0.8					
48	2		10	45			0.4					
49	3		14	52			0.6					
50	2		13	57			0.6					
51	4		14	81			0.6					
52	2		9	66			0.6					
53	4		11	60			0.6					
54	4		15	67			0.8					
55	3		10	29			0.4					
56	6		14	37			0.7					
57	4		12	40			0.4					
58	5		13	48			0.6					
59	4		10	41			0.6					
60	3		12	61			0.5					
61	3		12	60			0.6					
62	2		12	60			0.9					
63	4		14	74			1.0					
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Markin Resources
Hinterland Resources

GEOCHEMICAL ANALYSIS DATA SHEET

PROJECT No: Sugarloaf Chase

MIN - EN Laboratories Ltd.

209 WEST 15th ST. NORTH CALGARY, ALB. T2C 1V6, CAN.
PHONE: (404) 980-5314

1-103
DATE: Oct. 29
1981.

ATTENTION: V. Ryback-Hardy

Sample No.	Mn ppm	Cu ppm	Pb ppm	Zn ppm	Th ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppm
65	70	95	100	105	110	115	120	125	130	135	140	145
64	5		12	41			0.6					
65	4		10	52			0.6					
66	4		10	68			0.6					
67	5		12	79			0.8					
68	6		8	163			0.6					
69	5		7	67			0.5					
70	4		11	63			0.6					
71	5		8	47			0.6					
72	3		11	45			0.6					
73	4		10	56			0.4					
74	4		10	67			0.4					
75	3		10	60			0.4					
76	4		12	98			0.5					
77	1		12	58			0.4					
78	3		10	50			0.4					
79	2		14	65			0.5					
80	3		6	50			0.3					
81	2		10	77			0.4					
82	2		10	48			0.4					
83	2		14	64			0.8					
84	4		8	44			0.4					
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PROJECT No: Sugarloaf Chase

MIN - EN Laboratories Ltd.

DATE: Oct. 29

ATTENTION: V. Ryback-Hardy

705 WEST 15th ST. NORTH VANCOUVER, B.C. V7M 1T7
PHONE (604) 980 5814

1981.

Sample Number	6 Mo ppm	10 Cu ppm	15 Pb ppm	20 Zn ppm	25 Ni ppm	30 Co ppm	35 Ag ppm	40 Fe ppm	45 Hg ppb	50 As ppm	55 Mn ppm	60 Au ppm	65	70	75
	56	90	95	100	105	110	115	120	125	130	135	140	145		
85	2		11	4.6			0.6								
86	2		10	6.6			0.6								
87	2		12	1.12			0.8								
88	4		12	7.8			0.6								
89	2		12	5.3			0.6								
90	1		8	3.1			0.5								
91	2		10	5.0			0.7								
92	2		10	4.5			0.5								
93	3		12	8.3			0.6								
94	3		10	4.6			0.5								
95	3		10	4.5			0.7								
96	4		10	4.5			0.6								
97	2		8	6.0			0.5								
98	1		10	4.8			0.6								
99	2		11	5.2			0.5								
100	4		10	4.4			0.4								
101	4		9	5.7			0.6								
102	4		14	1.25			0.6								
103	2		8	4.6			0.6								
104	3		10	4.7			0.6								
105	2		8	6.2			0.6								
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COMPANIES: Markin Resources
Hinterland Resources

GEOCHEMICAL ANALYSIS DATA SHEET

PROJECT No.: Sugarloaf Chase

MIN - EN Laboratories Ltd.

ATTENTION: V. Ryback-Hardy

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

1-103

DATE: Oct. 24

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
106	3		12	66			12					
107	2		8	73			16					
108	2		10	68			10					
109	3		10	50			08					
110	2		12	56			11					
111	4		11	62			16					
112	3		9	55			08					
113	2		9	56			06					
114	2		7	32			04					
115	3		9	47			05					
116	3		13	68			06					
117	2		25	45			14					
118	1		11	57			06					
119	1		12	48			07					
120	1		9	35			06					
121	1		12	53			07					
122	2		8	30			05					
123	1		6	35			07					
124	1		10	62			08					
125	1		9	68			09					
126	1		12	82			10					
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COMP **Markin Resources**
Hinterland Resources

PROJECT No **Sugarloaf Chase**

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

30 WEDD 15th ST NORTH VANCOUVER BC V7M 1L4
 PHONE: 604-263-8814



1-103

Oct. 29

1981.

ATTENTION **V. Ryback-Hardy**

Sample No	Mo	Cu	Pb	Zn	Co	Ag	Fe	Hg	As	Mn	Au
ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm
85	90	95	100	105	110	115	120	125	130	135	140
127	2		15	84			0.6				
128	1		12	59			0.5				
129	1		13	53			0.4				
130	1		12	75			0.4				
131	1		12	88			0.4				
132	2		12	63			0.2				
133	1		11	53			0.2				
134	1		10	90			0.2				
135	2		13	21			0.6				
136	1		10	86			0.2				
137	1		12	74			0.3				
138	2		12	128			0.4				
139	1		15	96			0.6				
140	2		12	71			0.4				
141	1		9	73			0.2				
142	2		9	68			0.2				
143	1		10	52			0.2				
144	2		10	74			0.4				
145	2		10	48			0.4				
146	1		32	58			0.7				
147	2		8	48			0.2				
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Sample Number	6 Mo ppm	10 Cu ppm	15 Pb ppm	20 Zn ppm	25 Ni ppm	30 Co ppm	35 Ag ppm	40 Fe ppm	45 Hg ppb	50 As ppm	55 Mn ppm	60 Au ppm	65
148	3		13	46			13						
149	1		12	44			10						
150	1		15	62			09						
151	2		16	63			11						
152	1		13	59			08						
153	1		17	112			12						
154	1		14	112			09						
155	1		17	68			09						
156	2		12	109			08						
157	1		16	52			07						
158	1		15	66			08						
159	1		11	78			06						
160	1		11	56			07						
161	1		14	107			07						
162	2		19	97			10						
163	1		15	94			09						
164	1		12	63			08						
165	1		13	92			06						
166	1		11	59			08						
167	1		13	82			06						
168	1		12	84			07						
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COMPAN

Markin Resources
Hinterland Resources

GEOCHEMICAL ANALYSIS DATA SHEET

PROJECT No: Sugarloaf Chase

MIN - EN Laboratories Ltd.

1-103

DATE: Oct. 29

ATTENTION: V. Ryback-Hardy

205 WEST 15th ST. N.E. FREDERICKSBURG, B.C. V2Y 1T0
PHONE: (604) 980 5314

1981.

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65
	Mo	Cu	Pb	Zn	Co	Ag	Fe	Hg	As	Mn	Au		
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm		
	85	90	95	100	110	115	120	125	130	135	140	145	
169	3		12	116			06						
170	1		13	45			06						
171	1		19	111			11						
172	2		16	79			09						
173	1		11	58			07						
174	2		13	64			08						
175	1		10	48			08						
176	3		17	75			11						
177	1		16	54			08						
178	1		13	85			08						
179	1		129	48			14						
180	1		17	75			10						
181	1		14	75			09						
182	2		14	61			10						
183	1		15	57			09						
184	1		11	52			08						
185	1		10	61			06						
186	1		10	55			07						
187	1		59	95			17						
188	1		13	87			10						
189	1		17	80			17						
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COMPAL Markin Resources
Hinterland Resources

SUBJECT Sugarloaf Chase

ATTENTION V. Ryback-Hardy

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

1-103

Oct. 29

1981

190	1	16	68	0.8
191	1	18	72	0.7
192	2	14	72	0.6
193	1	18	61	0.7
194	2	14	70	0.5
195	1	12	63	0.6
196	2	21	43	1.6
197	1	46	52	1.1
198	1	13	48	0.5
199	1	15	35	0.7
200	2	37	49	0.9
201	1	11	71	0.8
202	1	14	73	0.9
203	1	13	65	0.8
204	1	19	55	0.8
205	1	14	48	1.0
206	2	14	96	1.0
207	1	14	47	0.9
208	1	13	50	1.1
209	1	11	73	1.1
210	1	18	52	1.4
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Markin Resources
Hinterland Resources

Sugarloaf_Chase

V. Ryback-Hardy

GEOCHEMICAL ANALYSIS DATA SHEET

MIN-EN Laboratories Ltd

1-10

Oct. 20

1981.

211	1	19	59	0.9
212	1	29	97	1.6
213	1	13	73	0.8
214	1	9	42	0.5
215	1	10	105	0.6
216	2	19	53	1.2
217	2	17	62	1.1
218	1	15	62	0.7
219	1	17	39	0.5
220	1	31	105	1.3
221	1	12	77	0.6
222	2	24	57	1.0
223	1	14	37	0.7
224	1	17	43	0.9
225	1	10	89	0.7
226	2	15	112	1.1
227	1	10	178	2.4
228	24	13	323	2.8
229	1	9	264	0.9
230	1	15	42	1.1
231	47	18	600	1.6

ASD
ASD



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

To: MARKIN RESOURCES INC.
Ste. #1700 - 750 West Pender St
Vancouver, B. C. V6C 2B8

852 E. Hastings St., Vancouver, B. C. V6A 1R6

Telephone: 253 - 3158

File No. 83-0946

Type of Samples Galena

Disposition Sugarloaf

ASSAY CERTIFICATE

No.	Sample	Mo%	Pb%	Zn%	Ag oz/ton	No.
1	Galena	.001	80.70	6.60	144.80	1
2						2
3						3
4						4
5						5
6						6
7						7
8						8
9						9
10						10
11						11
12						12
13						13
14						14
15						15
16						16
17						17
18						18
19						19
20						20

All reports are the confidential property of clients.

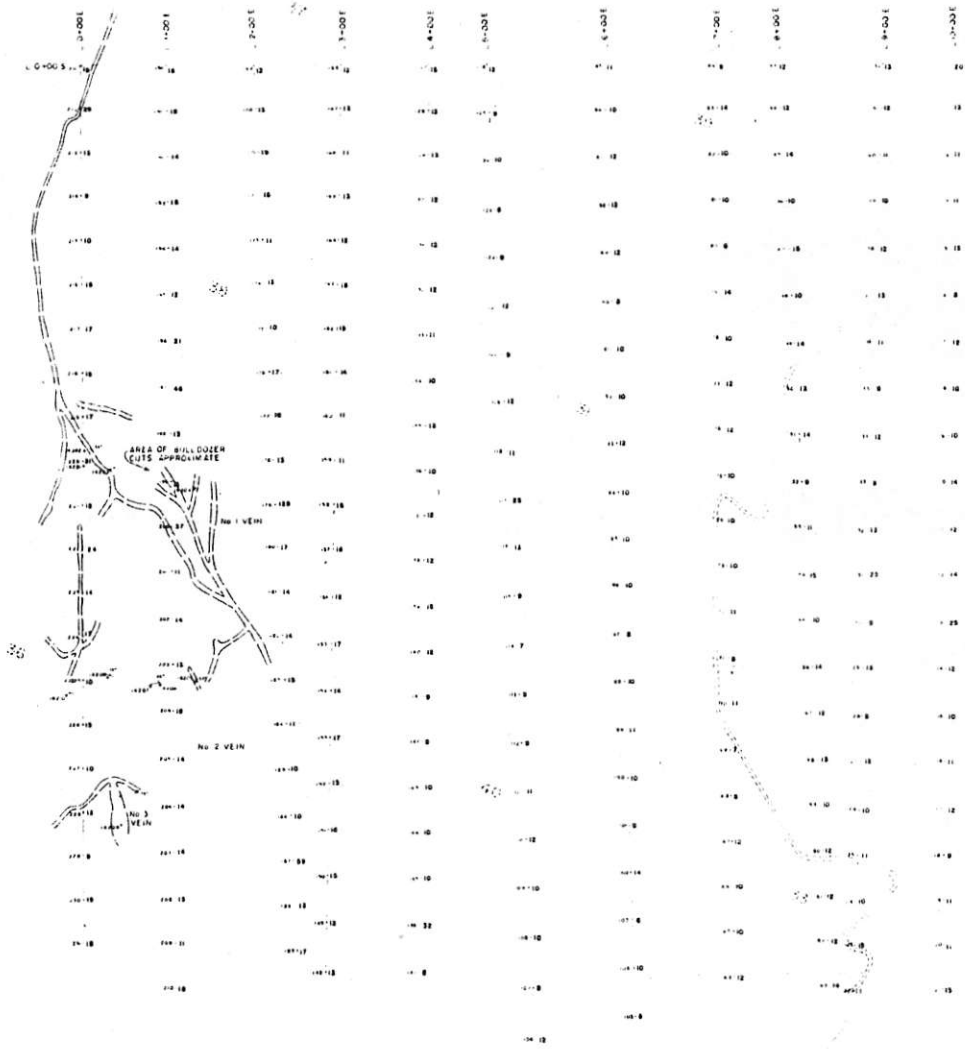
DATE SAMPLES RECEIVED June 27, 1983

DATE REPORTS MAILED June 28, 1983

ASSAYER

Dean Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



SAMPLE TABLE

SAMPLE No	% Mo	% Pb	% Zn	Ag wt %	Au wt %	% WO ₃
14201	0.010	0.15	0.01	1.34	0.040	0.001
14202	0.114	0.05	0.01	0.06	0.004	0.001
14203	0.321	0.30	0.01	0.40	0.006	0.001
14204	0.007	0.01	0.01	0.02	0.003	0.001
14205	0.003	0.01	0.01	0.01	0.002	0.001
14206	0.013	0.04	0.01	0.18	0.001	0.001
14207	0.006	0.02	0.01	0.53	0.003	0.001
14208	0.003	0.01	0.01	0.01	0.001	0.001
14209	0.174	0.01	0.01	0.01	0.001	0.001
14210	0.503	0.21	0.01	0.01	0.001	0.001

LEGEND

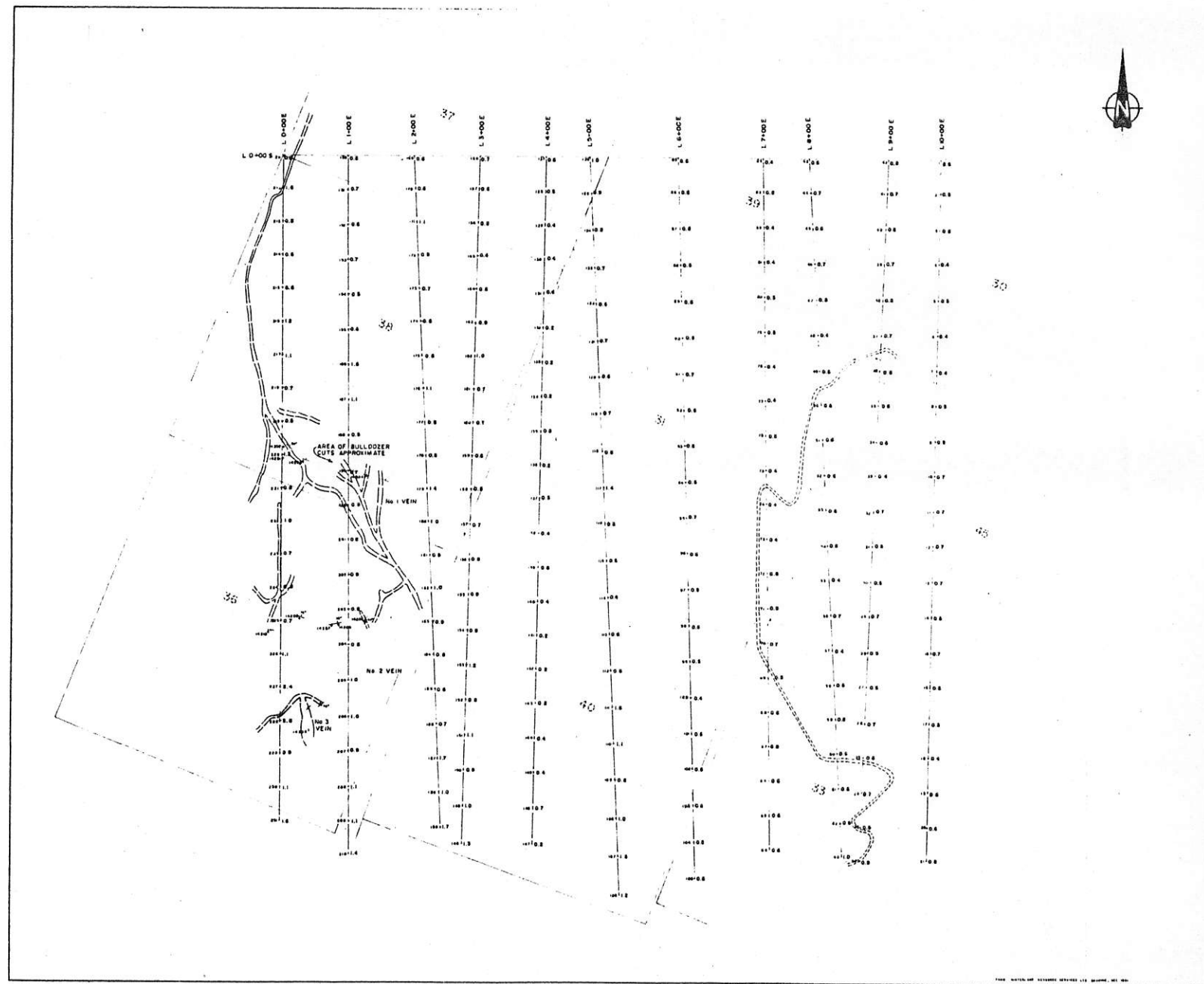
- ROAD
- MIN CLAIM CORNER POST & BOUNDARY
- MIN CLAIM NUMBER
- VEIN
- SURVEY GRID LINE
- SAMPLE NUMBER & LOCATION
- MINERALS VALUE - Pb (in ppm)
- MINERALS VALUE - Ag (in ppm)

MARKIN RESOURCES INC.
SHUSWAP LAKE AREA, B C

SUGARLOAF CLAIMS GROUP
KAMLOOPS MINING DIVISION
SOIL GEOCHEMISTRY - LEAD

DATE	03 26 83	JOB NO	142
DRAWN BY	JBT	SCALE	83-23 1:5000

BEMA INDUSTRIES LTD.



SAMPLE TABLE

SAMPLE No	% Mn	% Pb	% Zn	Ag pp/m	Au gr /t	% WC
14201	0.010	0.33	0.01	1.36	0.010	0.001
14202	0.114	0.08	0.01	0.08	0.004	0.001
14203	0.381	0.30	0.01	0.40	0.006	0.001
14204	0.007	0.01	0.01	0.08	0.003	0.001
14205	0.005	0.01	0.01	0.01	0.002	0.001
14206	0.015	0.04	0.01	0.19	0.001	0.001
14207	0.006	0.08	0.01	0.83	0.003	0.001
14208	0.001	0.01	0.01	0.01	0.001	0.001
14209	0.001	0.01	0.01	0.01	0.001	0.001
14210	0.003	0.01	0.01	0.01	0.001	0.001

LEGEND

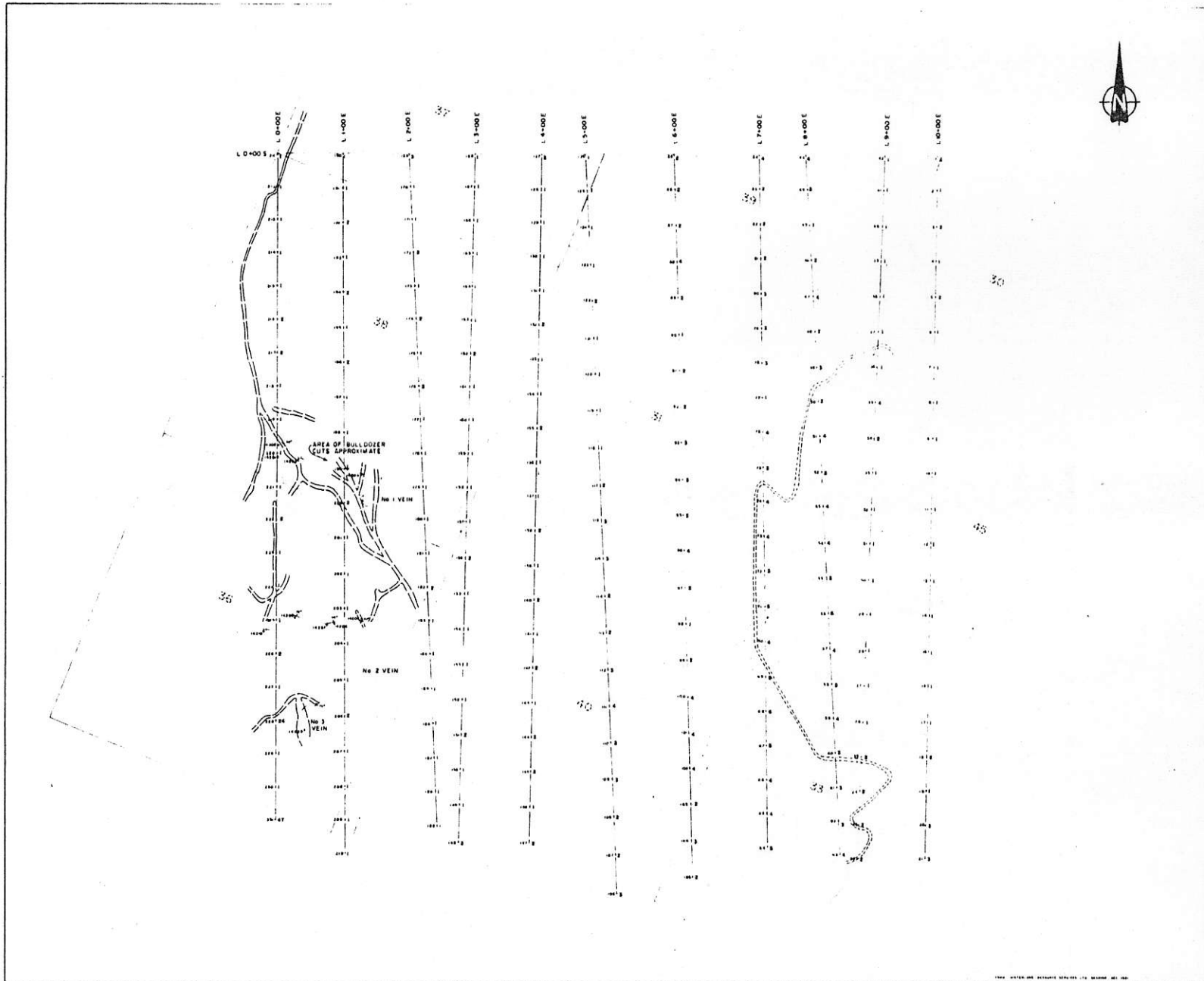
- ROAD
- 100 CLAIM CORNER POST & BOUNDARY
- 100 CLAIM NUMBER
- VEIN
- SURVEY GRID LINE
- SAMPLE NUMBER & LOCATION
- DECHEMICAL VALUE - Ag (in ppm)
- ROCK SHIP SAMPLE NUMBER & LOCATION

MARKIN RESOURCES INC.
SHUSWAP LAKE AREA, B. C.

SUGARLOAF CLAIMS GROUP
KAMLOOPS MINING DIVISION
SOIL GEOCHEMISTRY - SILVER

DATE	03 07 04	JOB NO.	83-23
DRAWN BY	V.B.T.	SCALE	1:5000

BEMA INDUSTRIES LTD.



SAMPLE TABLE							
SAMPLE No	% Mo	% Pb	% Zn	Au gr / t	Ag gr / t	% WO ₃	
14201	0.010	0.55	0.01	1.34	0.010	0.001	
14202	0.114	0.05	0.01	0.06	0.004	0.001	
14203	0.321	0.30	0.01	0.40	0.009	0.001	
14204	0.007	0.01	0.01	0.01	0.003	0.001	
14205	0.003	0.01	0.01	0.01	0.008	0.001	
14206	0.013	0.04	0.01	0.19	0.001	0.001	
14207	0.008	0.08	0.01	0.33	0.003	0.001	
14208	0.001	0.01	0.01	0.01	0.001	0.001	
14209	0.001	0.01	0.01	0.01	0.001	0.001	
14210	0.003	0.01	0.01	0.01	0.001	0.001	

LEGEND

- ROAD
- NO. CLAIM CORNER POST & BOUNDARY
- NO. CLAIM NUMBER
- VEIN
- SURVEY GRID LINE
- SAMPLE NUMBER & LOCATION
- MECHEMICAL VALUE - Mo (in ppm)
- ROCK CHIP SAMPLE NUMBER & LOCATION

MARKIN RESOURCES INC.
SHUSWAP LAKE AREA, B C

SUGARLOAF CLAIMS GROUP
KAMLOOPS MINING DIVISION
SOIL GEOCHEMISTRY - MOLYBDENUM

DATE	83 06 30	JOB NO	741 00
DRAWN BY	JBT	83-23	
SCALE		1:5000	

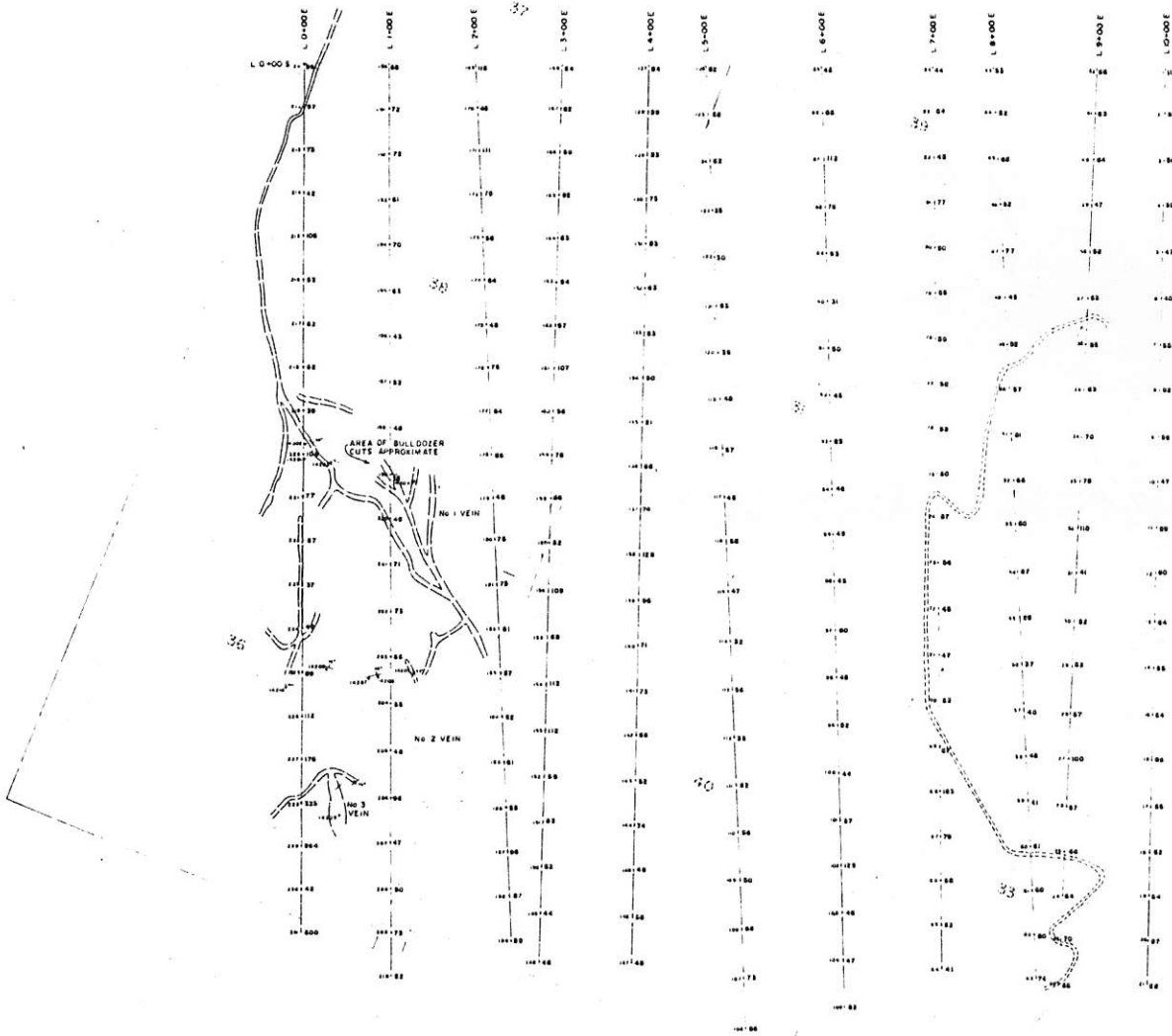
BEMA INDUSTRIES LTD.

SAMPLE TABLE

SAMPLE No	% Mo	% Pb	% Zn	Ag pp / l	Au oz / t	% WO ₃
14201	0.010	0.35	0.01	1.36	0.010	0.001
14202	0.114	0.05	0.01	0.06	0.004	0.001
14203	0.321	0.30	0.01	0.40	0.006	0.001
14204	0.007	0.01	0.01	0.02	0.005	0.001
14205	0.005	0.01	0.01	0.01	0.002	0.001
14206	0.015	0.04	0.01	0.19	0.001	0.001
14207	0.008	0.08	0.01	0.93	0.003	0.001
14208	0.001	0.01	0.01	0.01	0.001	0.001
14209	0.001	0.01	0.01	0.01	0.001	0.001
14210	0.005	0.01	0.01	0.01	0.001	0.001

LEGEND

- ROAD
- 180' CLAIM CORNER POST & BOUNDARY
- 180' CLAIM NUMBER
- VEIN
- SURVEY GRID LINE
- SAMPLE NUMBER & LOCATION
- GEOCHEMICAL VALUE - ZN (in ppm)
- ROCK CHIP SAMPLE NUMBER & LOCATION



MARKIN RESOURCES INC.
SHUSWAP LAKE AREA, B. C.

SUGARLOAF CLAIMS GROUP
KAMLOOPS MINING DIVISION
SOIL GEOCHEMISTRY - ZINC

DATE	22 06 80	JAN 80	FIG NO
DRAWN BY	J. B.T.	83-25	
		SCALE 1:2500	

BEMA INDUSTRIES LTD.