Geochemical Report

- on the -

DM Claim and PoP Claim

Kamloops Mining Division, British Columbia
N.T.S. 82M/5W

- For -

Karl Bauer
#103-409 Fortune Dr.
Kamloops, B. C.

Prepared by:

G. Belik and Associates Ltd.
664 Sunvalley Drive
Kamloops, B. C.

Gary D. Belik, M. Sc.

March 23, 1984

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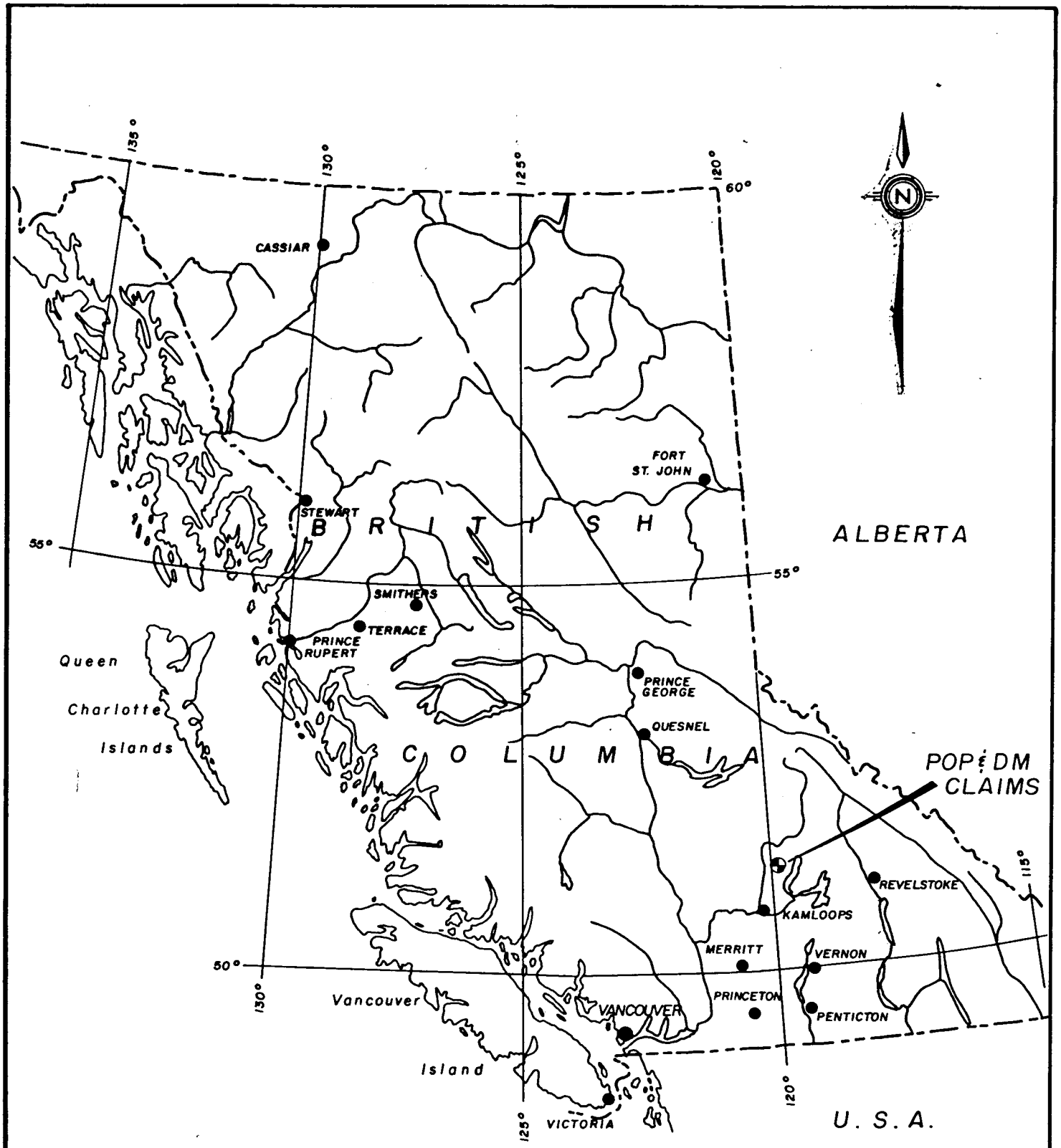


K. BAUER

LOCATION MAP

POP & DM CLAIMS

KAMLOOPS MINING DIVISION, B.C.

Technical Work by: Kerr, Dawson & Assoc. Ltd.	Date : Mar., 1984.
Scale : 1cm. = 87 km.	Dwg No. 1035-1

Introduction

During November 21-25, 1983, a soil sampling program was carried out on the Pop and DM mineral claims situated near North Barriere Lake in the Kamloops Mining Division, British Columbia. Field work was supervised by G. Belik of G. Belik and Associates Ltd., 664 Sunvalley Drive, Kamloops, B. C.

This report presents the results of the 1984 geochemical survey and is submitted in support of assessment work filed in Kamloops on March 5, 1984.

Claims

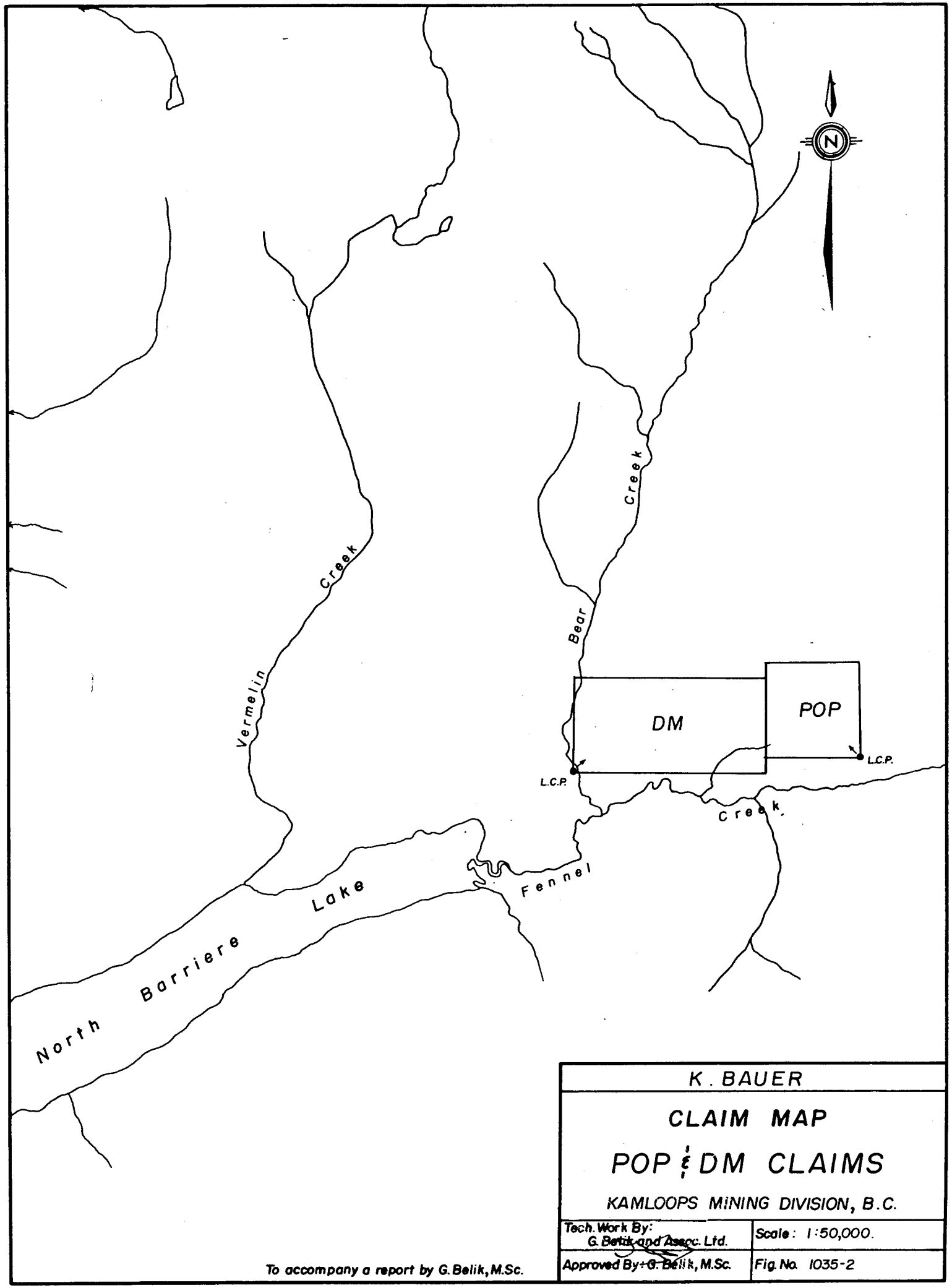
The surveyed area is encompossed by 2 contiguous MGS claims totalling 12 units as detailed below:

Mining Division	Claim Name	Units	Record No.
Kamloops	PoP	4	1588(11)
Kamloops	DM	8	2446(3)

The owner of the above claims is Mr. Karl Bauer, #103-409 Fortune Drive, Kamloops, B. C.

Location and Accessibility

The PoP and DM claims extend along the north side of



K. BAUER

CLAIM MAP

POP & DM CLAIMS

KAMLOOPS MINING DIVISION, B.C.

Tech. Work By: G. Belik and Assoc. Ltd.	Scale: 1:50,000.
Approved By: G. Belik, M.Sc.	Fig. No. 1035-2

To accompany a report by G. Belik, M.Sc.

the Barriere River Valley, in the Kamloops Mining Division, B. C. (N.T.S. 82M/5W). The center of the property is centered about 85 km north-northeast of Kamloops at geographic co-ordinates 51°22' North Latitude and 119°45' West Longitude. The village of Barriere is located about 35 km to the southwest.

The south edge of the claim area is traversed by a well-graded gravel road which is accessible by travelling northeast from Barriere along the Barriere Lakes access road.

General Geological Setting

The claim area is situated along the southern margin of the Late Cretaceous to Early Tertiary Baldy Batholith. Within the area surveyed the dominant lithology is a medium- to coarse-grained, porphyritic (K-spar) granodiorite. Jointing and fracturing generally are poorly developed. No significant alteration zones have been identified.

Immediately south of the claim area the Baldy Batholith intrudes a tilted, strongly deformed, low-grade regionally metamorphosed sequence of volcanic and sedimentary strata of probable Paleozoic age. Campbell (1962) mapped these rocks as part of the Eagle Bay Formation; a group of similarly deformed and metamorphosed rocks which are flanked on the east by the higher metamorphic grade

Shuswap Metamorphic Complex and on the west by relatively undeformed and unmetamorphosed rocks of the Fennel Formation, Nicola Group and Cache Creek Group. Within the region of the claims the Eagle Bay Formation is represented by quartzites, chloritic and sericitic schists, greenstone and carbonaceous to graphitic, black phyllite.

In the southeast corner of the PoP claim the Baldy Batholith is cut by a few northeast-trending quartz veins, 0.3 to 1.2 meters wide. The main vein has been traced over a continuous strike length of about 100 meters. The projected extensions of this zone are concealed by overburden.

Locally, segments of the quartz veins contain abundant pyrite and galena with lesser sphalerite and chalcopyrite. Silver assays ranging from a few oz. to about 20 oz/ton have been obtained from sulphide-rich zones.

Soil Geochemistry

In total 122 soil samples were collected during the 1983 program. Samples were taken at 50 meter intervals along 4 east-west lines, 200 meters apart.

All samples were analysed for gold, silver, lead and molybdenum by Kamloops Research and Assay Laboratory Ltd., located at 912 Laval Crescent, Kamloops, B. C.

Sampling Method

Samples were obtained by digging holes with a maddock to a depth of 20 cm to 50 cm. The "B" horizon was sampled or in some cases the "B-C" horizon depending on soil development at each sample location. The samples were placed in waterproof kraft envelopes and the grid station was marked on the envelopes with an indelible ink felt pen.

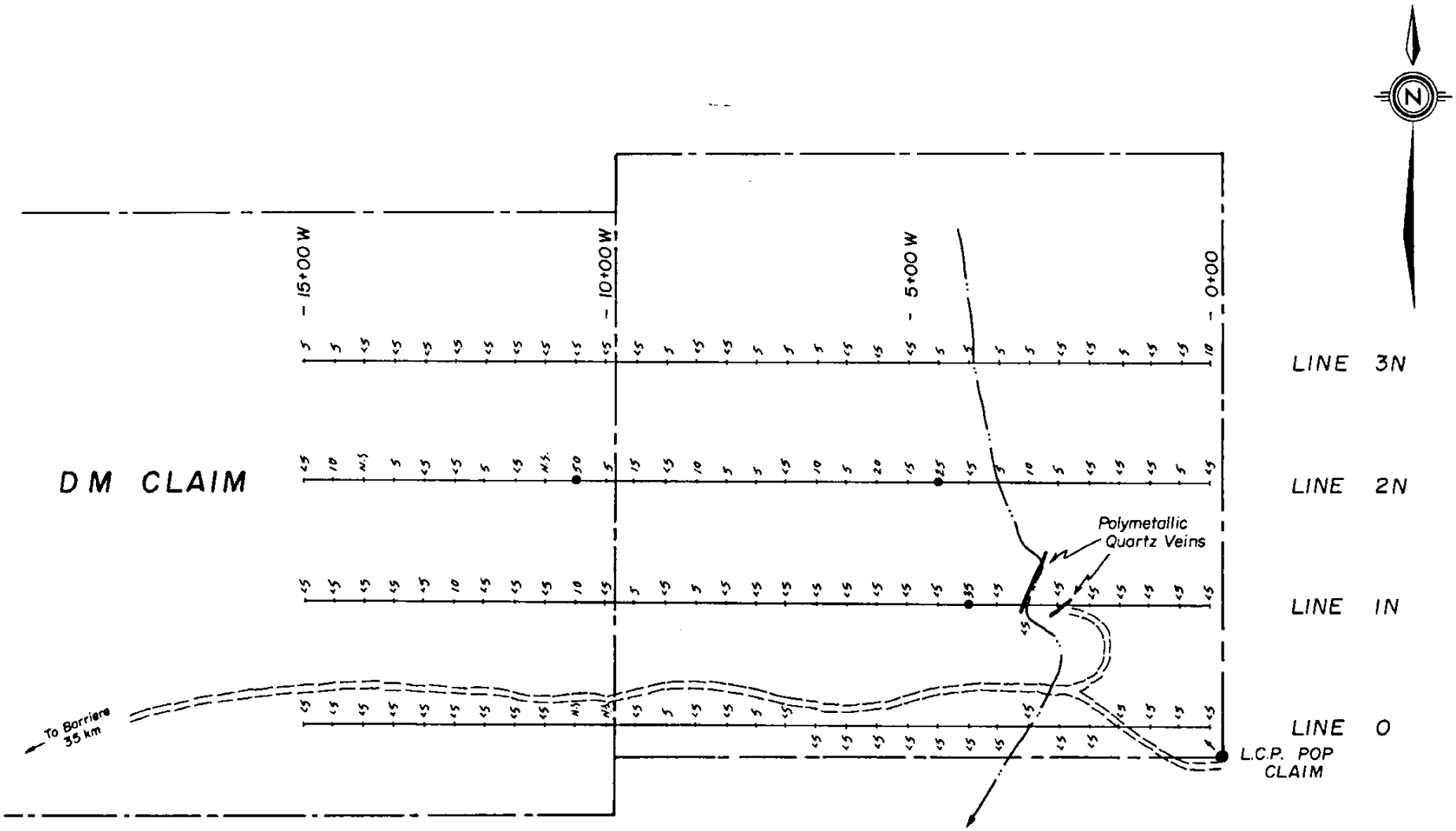
Laboratory Determination Method

All samples were first dried and then sieved to obtain a -80 mesh fraction. The determination procedure was as follows:

	Digestion:	Determination:
Silver Lead Moly	-0.5 gm sample is digested in hot aqua regia	-Atomic Absorption
Gold	-bead formed by fire assay preconcentration from a 10 gm sample	-Atomic Absorption

Presentation of Results

Results of the soil analyses are shown in plan maps 1035-3 to 1035-6 at a scale of 1:10,000. Results are given in parts per million for silver, lead and zinc and in parts per billion for gold.



SYMBOLS

- GRID LINE
- CLAIM BOUNDARY
- CREEK
- ROAD
- ANOMALOUS SOIL SITE (GOLD VALUES IN PPB).

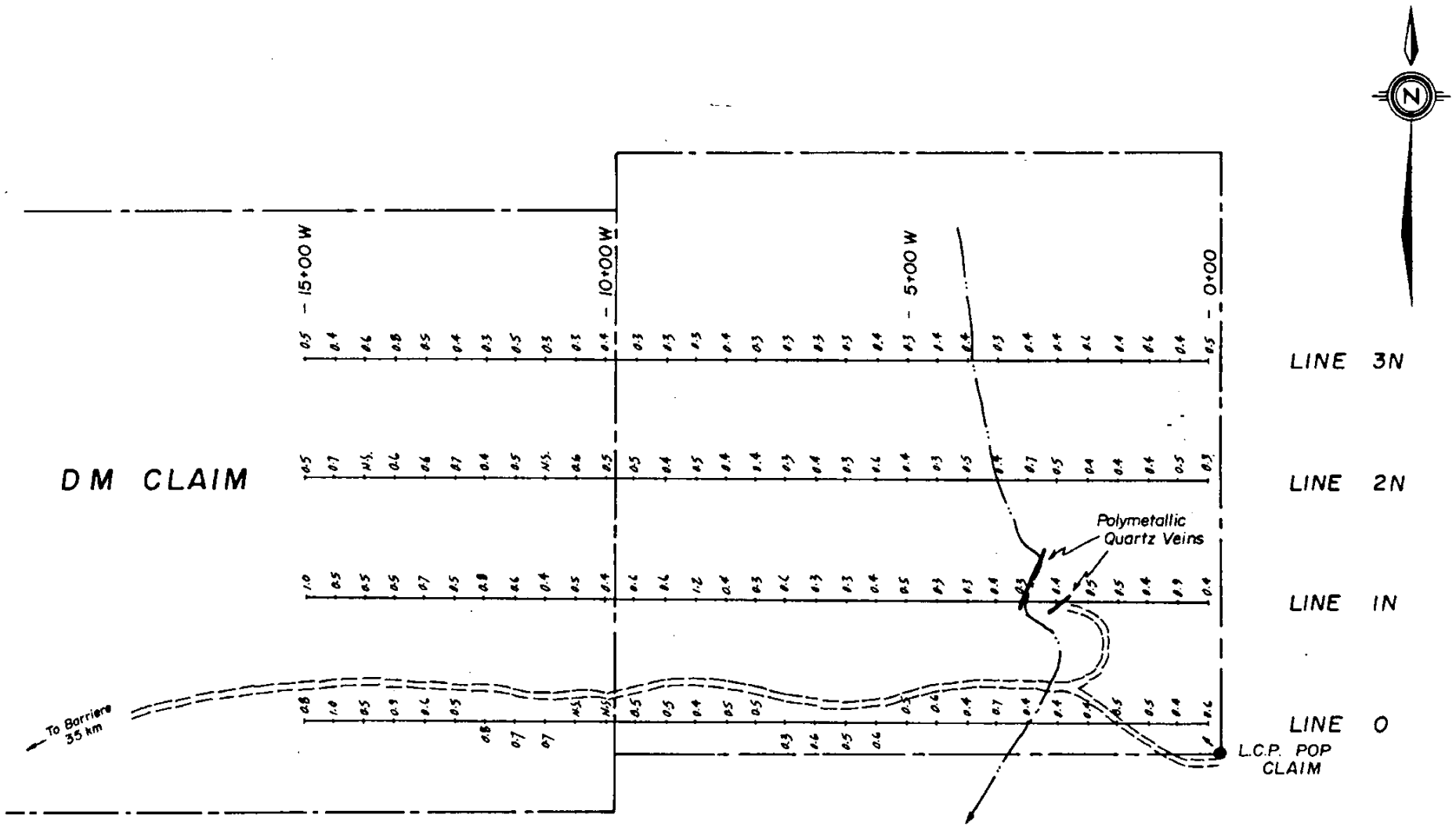
To accompany a report by G.Belik, M.Sc.

K. BAUER

GEOCHEMICAL PLAN
AU IN SOILS
POP & DM CLAIMS

KAMLOOPS MINING DIVISION, B.C.

Tech. Work By: G.Belik and Assoc. Ltd.	Scale: 1:10,000 0 50m 100 200
App'd By: G.Belik, M.Sc.	Fig. No. 1035-3



SYMBOLS

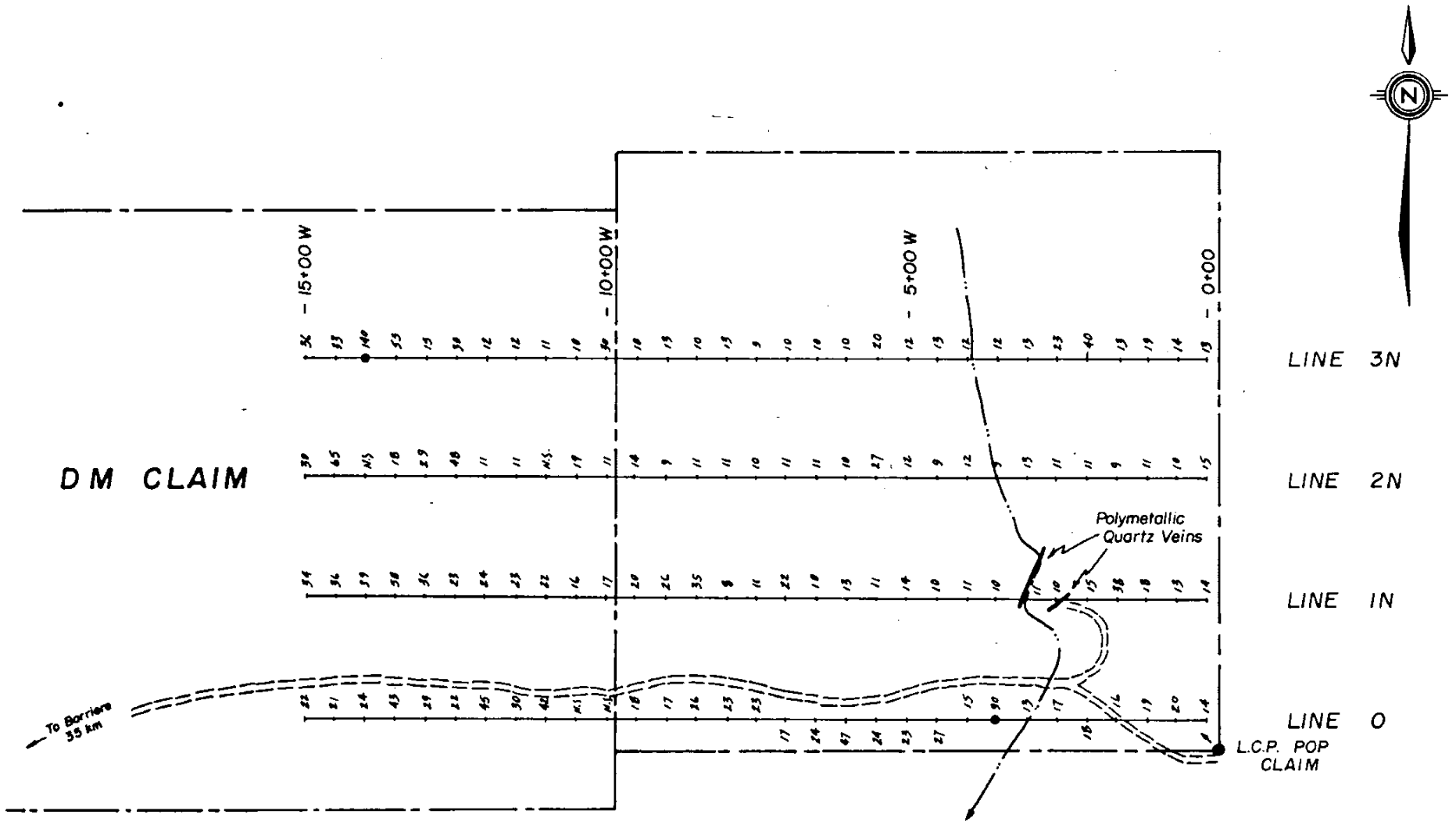
- GRID LINE
- CLAIM BOUNDARY
- CREEK
- ROAD
- ANOMALOUS SOIL SITE (SILVER VALUES IN PPM).

To accompany a report by G.Belik, M.Sc.

K. BAUER

GEOCHEMICAL PLAN
AG IN SOILS
POP & DM CLAIMS
KAMLOOPS MINING DIVISION, B.C.

Tech. Work By: G.Belik and Assoc. Ltd.	Scale: 1:10,000 0 50m 100 200
App'd By: G.Belik, M.Sc.	Fig. No. 1035-4



SYMBOLS

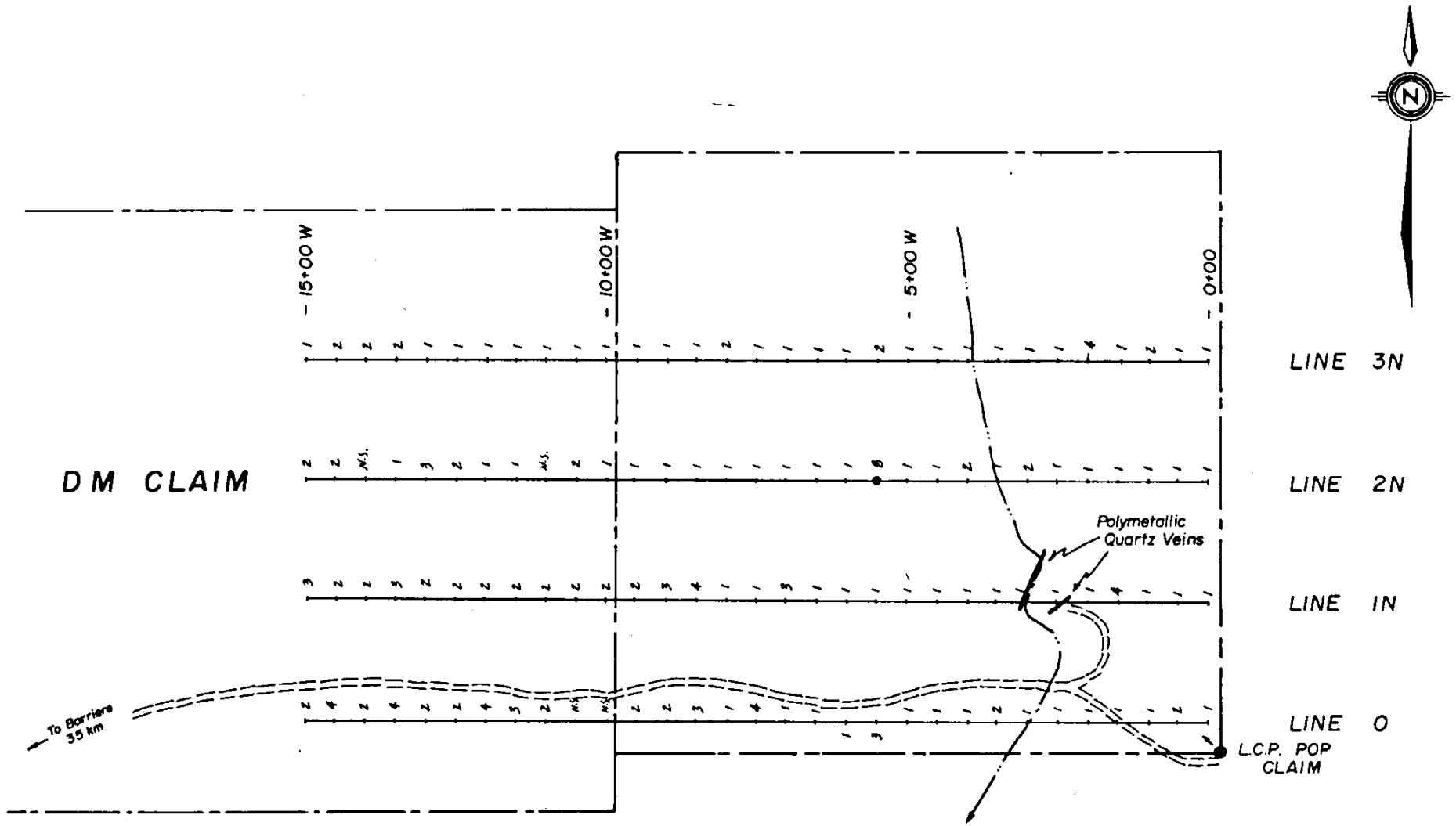
- GRID LINE
- CLAIM BOUNDARY
- CREEK
- ROAD
- ● 15 ANOMALOUS SOIL SITE (LEAD VALUES IN PPM).

To accompany a report by G.Belik, M.Sc.

K. BAUER

GEOCHEMICAL PLAN
PB IN SOILS
POP & DM CLAIMS
KAMLOOPS MINING DIVISION, B.C.

Tech. Work By: G.Belik and Assoc. Ltd.	Scale: 1:10,000 (0 50m 100 200)
App'd By: G. Belik, M.Sc.	Fig. No. 1035-5



SYMBOLS

- GRID LINE
- CLAIM BOUNDARY
- CREEK
- ROAD
- ANOMALOUS SOIL SITE (MOLYBDENUM VALUES IN PPM).

To accompany a report by G. Belik, M.Sc.

K. BAUER

GEOCHEMICAL PLAN

MO IN SOILS

POP & DM CLAIMS

KAMLOOPS MINING DIVISION, B.C.

Tech. Work By: G. Belik	Scale: 1:10,000 0 50m 100 200
App'd By: G. Belik, M.Sc.	Fig. No. 1035-6

Discussion of Results

A statistical analyses of gold, silver, lead and molybdenum in soil was carried out with the following results:

	Au	Ag	Pb	Mo
Population	121	122	122	122
Range	1-50 ppb	0.3-1.2 ppm	8-140 ppm	1-8 ppm
Mean ($\bar{x}$)	4 ppb	0.5 ppm	21 ppm	2 ppm
Standard Deviation (S)	6	0.2	17	1
Anomalous Threshold ($\bar{x}$ + 3S)	22 ppb	1.1 ppm	72 ppm	5 ppm

Gold content ranges from 1 to 50 ppb with 95% of the samples containing 10 ppb or less. Three samples (LIN 4+00W, L2N 4+50W, L2N 10+50W) are considered to be weakly anomalous. The interval between the two anomalies on line 2N returned five elevated gold values (10-20 ppb) which suggests the possible presence of a broad very weakly anomalous zone. It is conceivable that this zone could strengthen upslope, to the north between lines 2N and 3N.

Silver shows a very narrow range of values (0.3-1.2 ppm) with a mean of 0.5 ppm and a Standard Deviation of 0.2 ppm. There appears to be no truely anomalous samples.

The background for lead within the area surveyed is about 20 ppm. One weakly anomalous value (90 ppm) was obtained from sample site L0 3+50W. This anomaly occurs along the projected strike of a strong, lead-bearing quartz vein,

situated about 200 meters to the northwest. A second, moderately anomalous lead value (140 ppm) occurs on line 3N, 14+00W.

Background values for molybdenum are low (2 ppm) with only one weakly anomalous value (L2N 5+50W).

Prepared by:

G. BELIK & ASSOCIATES LTD.

G. D. Belik, M. Sc.
March 23, 1984

Appendix I

Geochemical Certificate

KAMLOOPS RESEARCH
&
ASSAY LABORATORY
LTD

B.C. CERTIFIED ASSAYERS

512 LAVAL CRESCENT
PHONE 372-2784 - TELEX 046-8328

GEOCHEMICAL LAB REPORT

MR KARL BAUER
302-463 FORTUNE DR
KAMLOOPS B C
V2B 2H3

DATE DEC 1 1983
ANALYST
FILE NO. G 1007

KRAL NO.	IDENTIFICATION	AU	PB	MO	AG
1	L0 1+00N	1.0	17.0	1.0	0.4
2	L0 1+50N	1.0	17.0	1.0	0.4
3	L0 2+00N	1.0	14.0	1.0	0.6
4	2+50N	1.0	20.0	2.0	0.4
5	3+00N	1.0	19.0	1.0	0.5
6	3+50N	5.0	16.0	1.0	0.5
7	4+00N	1.0	18.0	1.0	0.4
8	4+50N	1.0	17.0	1.0	0.4
9	5+00N	1.0	13.0	1.0	0.4
10	5+50N	1.0	30.0	2.0	0.7
11	6+00N	1.0	15.0	1.0	0.4
12	6+50N	1.0	27.0	1.0	0.6
13	7+00N	1.0	23.0	1.0	0.5
14	7+50N	1.0	24.0	3.0	0.6
15	8+00N	1.0	47.0	1.0	0.5
16	8+50N	1.0	24.0	1.0	0.6
17	9+00N	1.0	17.0	1.0	0.3
18	9+50N	5.0	23.0	4.0	0.5
19	10+00N	1.0	23.0	1.0	0.5
20	10+50N	1.0	26.0	3.0	0.4
21	11+00N	5.0	17.0	2.0	0.5
22	11+50N	1.0	18.0	2.0	0.5
23	11+00N	1.0	42.0	2.0	0.7
24	11+50N	1.0	30.0	3.0	0.7
25	12+00N	1.0	45.0	4.0	0.8
26	12+50N	1.0	22.0	2.0	0.5
27	13+00N	1.0	29.0	2.0	0.6
28	13+50N	1.0	43.0	4.0	0.9
29	14+00N	1.0	24.0	2.0	0.5
30	14+50N	1.0	21.0	4.0	1.0

KAMLOOPS RESEARCH & ASSAY LABORATORY LTD.
GEOCHEMICAL LAB REPORT

FILE NO G 1007

KRAL NO.	IDENTIFICATION	AU	PB	MO	AG
31	15+00W	1.0	22.0	2.0	0.6
32	L1N 0+00W	1.0	14.0	1.0	0.4
33	0+50W	1.0	13.0	1.0	0.9
34	1+00W	1.0	18.0	1.0	0.4
35	1+50W	1.0	38.0	4.0	0.5
36	2+00W	1.0	15.0	1.0	0.5
37	2+50W	1.0	10.0	1.0	0.4
38	3+00W	1.0	11.0	1.0	0.3
39	3+50W	1.0	10.0	1.0	0.4
40	4+00W	35.0	11.0	1.0	0.3
41	4+50W	1.0	10.0	1.0	0.3
42	5+00W	1.0	14.0	1.0	0.5
43	5+50W	1.0	11.0	1.0	0.4
44	6+00W	1.0	13.0	1.0	0.3
45	6+50W	1.0	10.0	1.0	0.3
46	7+00W	1.0	22.0	3.0	0.6
47	7+50W	1.0	11.0	1.0	0.3
48	8+00W	1.0	8.0	1.0	0.4
49	8+50W	5.0	35.0	4.0	1.2
50	9+00W	1.0	26.0	3.0	0.6
51	9+50W	5.0	20.0	2.0	0.6
52	10+00W	1.0	17.0	2.0	0.4
53	10+50W	10.0	16.0	2.0	0.5
54	11+00W	1.0	22.0	2.0	0.4
55	11+50W	1.0	23.0	2.0	0.6
56	12+00W	1.0	24.0	2.0	0.8
57	12+50W	10.0	23.0	2.0	0.5
58	13+00W	1.0	36.0	2.0	0.7
59	13+50W	1.0	58.0	3.0	0.5
60	14+00W	1.0	39.0	2.0	0.5
61	14+50W	1.0	36.0	2.0	0.5
62	15+00W	1.0	34.0	3.0	1.0
63	L2N 0+00W	1.0	15.0	1.0	0.3
64	0+50W	5.0	10.0	1.0	0.5
65	1+00W	1.0	11.0	1.0	0.4
66	1+50W	1.0	9.0	1.0	0.4
67	2+00W	1.0	11.0	1.0	0.4
68	2+50W	5.0	11.0	1.0	0.5
69	3+00W	10.0	13.0	2.0	0.7
70	3+50W	5.0	9.0	1.0	0.4

KAMLOOPS RESEARCH & ASSAY LABORATORY LTD.
GEOCHEMICAL LAB REPORT

FILE NO G 1007

KRAL NO.	IDENTIFICATION	AU	PB	MO	AG
71	4+00W	1.0	12.0	2.0	0.5
72	4+50W	25.0	9.0	1.0	0.3
73	5+00W	15.0	12.0	1.0	0.4
74	5+50W	20.0	27.0	8.0	0.6
75	6+00W	5.0	10.0	1.0	0.3
76	6+50W	10.0	11.0	1.0	0.4
77	7+00W	1.0	11.0	1.0	0.3
78	7+50W	5.0	10.0	1.0	0.4
79	8+00W	5.0	11.0	1.0	0.4
80	8+50W	10.0	11.0	1.0	0.5
81	9+00W	1.0	9.0	1.0	0.4
82	9+50W	15.0	14.0	1.0	0.5
83	10+00W	5.0	11.0	1.0	0.5
84	10+50W	30.0	19.0	2.0	0.6
85	11+50W	1.0	11.0	1.0	0.5
86	12+00W	5.0	11.0	1.0	0.4
87	12+50W	1.0	48.0	2.0	0.7
88	13+00W	1.0	23.0	3.0	0.6
89	13+50W	5.0	18.0	1.0	0.6
90	14+50W	10.0	65.0	2.0	0.7
91	15+00W	1.0	30.0	2.0	0.5
92	L3N 0+00W	10.0	13.0	1.0	0.5
93	0+50W	1.0	14.0	1.0	0.4
94	1+00W	1.0	19.0	2.0	0.6
95	1+50W	5.0	13.0	1.0	0.4
96	2+00W	1.0	40.0	4.0	0.6
97	2+50W	1.0	23.0	1.0	0.4
98	3+00W	5.0	13.0	1.0	0.4
99	3+50W	5.0	12.0	1.0	0.3
100	4+00W	5.0	12.0	1.0	0.4
101	4+50W	5.0	13.0	1.0	0.4
102	5+00W	1.0	12.0	1.0	0.3
103	5+50W	0.0	20.0	2.0	0.4
104	6+00W	1.0	10.0	1.0	0.3
105	6+50W	5.0	10.0	1.0	0.3
106	7+00W	5.0	10.0	1.0	0.3
107	7+50W	5.0	9.0	1.0	0.3
108	8+00W	1.0	13.0	2.0	0.4
109	8+50W	1.0	10.0	1.0	0.3
110	9+00W	5.0	13.0	1.0	0.3

KAMLOOPS RESEARCH & ASSAY LABORATORY LTD.
GEOCHEMICAL LAB REPORT
FILE NO G 1667

KRAL NO	IDENTIFICATION	AU	PB	MO	AG
111	9+50W	1.0	10.0	1.0	0.3
112	10+00W	1.0	30.0	1.0	0.4
113	10+50W	1.0	10.0	1.0	0.3
114	11+00W	1.0	11.0	1.0	0.3
115	11+50W	1.0	12.0	1.0	0.3
116	12+00W	1.0	12.0	1.0	0.3
117	12+50W	1.0	30.0	1.0	0.4
118	13+00W	1.0	15.0	1.0	0.5
119	13+50W	1.0	55.0	2.0	0.6
120	14+00W	1.0	140.0 ✓	2.0	0.6
121	14+50W	5.0	33.0	2.0	0.4
122	15+00W	5.0	36.0	1.0	0.5

IN AU COLUMN 1 INDICATES LESS THAN 5 PPB

AU METHOD -60 MESH FIRE ASSAY ATOMIC ABSORPTION

MO AG METHOD -60 MESH HOT ACID EXTRACTION ATOMIC ABSORPTION

SAMPLE 104 NOT ENOUGH SAMPLE FOR AU

Appendix II

Statement of Expenditures

Statement of Expenditures

A. Personnel:

G. Belik, M. Sc., (Nov. 21/83) 1.0 days @ $500/day (incl. report)	$500.00	
K. Bauer, Sampler (Nov. 21, 23, 24/83) 3.0 days @ $150/day	450.00	
L. Bauer, Sampler (Nov. 23-24/83) 2.0 days @ $100/day	200.00	
Cory Grove, Crew leader (Nov. 23-24/83) 2.0 days @ $175/day	350.00	
Ernie Fandrick, Sampler (Nov. 23-24/83) 2.0 days @ $150/day	300.00	$1,800.00

B. Expenses and Disbursements:

a) Truck Rental	$ 150.00	
b) Field Supplies	50.00	
c) Geochemical Analyses	1,262.80	1,462.80
	Total	$3,262.80

Appendix III

Statement of Qualifications: G. D. Belik

GARY D. BELIK, M.Sc.
Consulting Geologist
Mineral Exploration

#6 NICOLA PLACE, 310 NICOLA STREET • KAMLOOPS, B.C. V2C 2P5 • PHONE (604) 374-4247

CERTIFICATE

I, GARY D. BELIK, OF THE CITY OF KAMLOOPS, BRITISH COLUMBIA, DO HEREBY CERTIFY THAT:

(1). I am a member of the Canadian Institute of Mining and Metallurgy, and a fellow of the Geological Association of Canada.

(2). I am employed by G. Belik and Associates Ltd., with my office at 664 Sunvalley Drive, Kamloops, B. C.

(3). I am a graduate of the University of British Columbia with a B.Sc. in Honors Geology and a M.Sc. in Geology.

(4). I have practised continuously as a geologist since May, 1970.

Gary D. Belik, M.Sc.,
Geologist

KAMLOOPS, B. C.

March 23, 1984