

ARIS SUMMARY SHEET

District Geologist, Prince George

Off Confidential: 89.03.03

ASSESSMENT REPORT 17484

MINING DIVISION: Cariboo

PROPERTY: Gravelle
LOCATION: LAT 52 49 00 LONG 122 09 00
UTM 10 5851997 557286
NTS 093B16E

CLAIM(S): Gravelle
OPERATOR(S): Circle Res.
AUTHOR(S): Kahlert, B.
REPORT YEAR: 1988, 45 Pages

COMMODITIES
SEARCHED FOR: Gold

GEOLOGICAL
SUMMARY: The claims are underlain by Quesnellia volcanic-sedimentary sequences, which are intruded by alkalic plutons. Heavy mineral samples contain up to 2150 ppb gold.

WORK
DONE: Geochemical
HMIN 3 sample(s) ;AU,AG,AS,SB,CU,PB,ZN
LINE 18.5 km
SOIL 340 sample(s) ;AU,AG,AS,SB,CU,PB,ZN
Map(s) - 1; Scale(s) - 1:5000

BERNARD H. KAHLERT P.Eng.

Consulting Geologist
Mineral Exploration

LOG NO: 0614

RD.

ACTION:

FILE NO:

1195 Sutton Place, West Vancouver, B.C. V7S 2L3 Tel. (604) 925-2743

GEOCHEMICAL REPORT

Claims

Gravelle Claims
No. 8287

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

17,484

Cariboo Mining Division

NTS 93 B/16

Lat. 52° 49' N., Long. 123 09' W.

FILMED

Owner
Contractor
Consultant

Circle Resources Ltd.
Aurum Geological Consultants
B.H. Kahlert & Associates
Ltd.

Author

B.H. Kahlert

Date

June 3, 1988
West Vancouver, B.C.

**SUB-RECORDER
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VANCOUVER, B.C.

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Our File No. BEMA 3024-3
bema\rpt\assgravl.bhk

INTRODUCTION

This report describes a geochemical follow-up survey completed on the Gravelle claim located 35 kilometres southeast of Quesnel, B.C. Work consisted of stream sampling, establishment of an extensive grid from which soil samples were collected and heavy mineral stream sediment sampling. Reconnaissance geological mapping was undertaken, however lack of outcrop precluded detailed geological evaluation.

The writer outlined and supervised the work program which was carried out by geologist B. Fraser.

Location and Access

The Gravelle property adjoins the East bank of the Quesnel River 29 kilometers southeast of Quesnel, B.C. (see Figure 1).

Vehicle access from Quesnel is via 9 kilometers of paved road and 14 kilometers of good gravel road along the Western side of the Quesnel River to the Gravelle Ferry Bridge. On the East side of the river, 3 kilometers of gravel road heads South to end on private land (L.9161, L.4637), 2 kilometers North of the property.

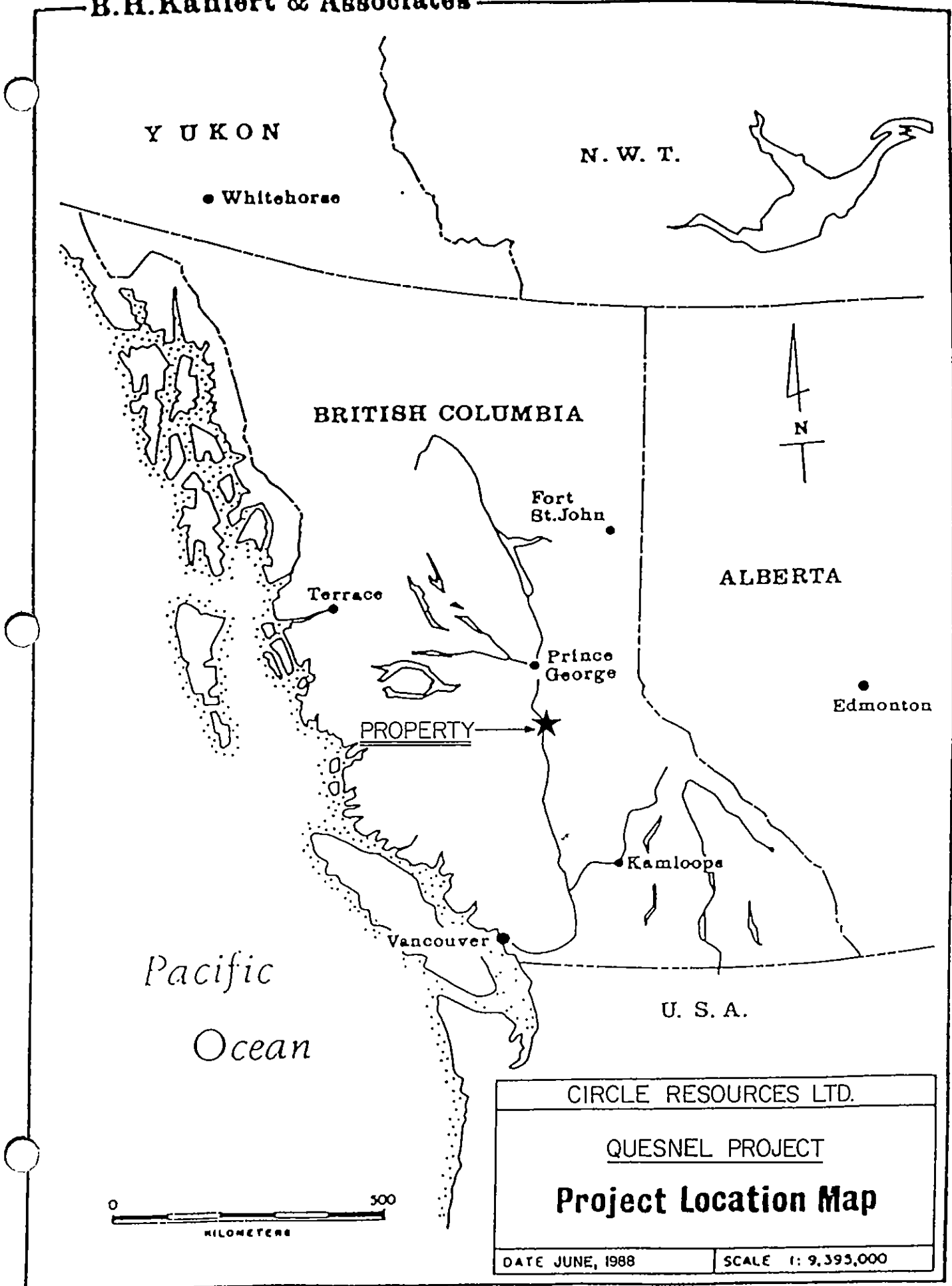


Figure 1

Alternate access is via helicopter from Quesnel to gravel banks on the Quesnel River.

Claim Description

Exploration history of the property, if any, is not known.

The Gravelle property consists of 1 mineral claim, in total 20 units (5.0 sq. km.) situated at Latitude 52 degrees 49 minutes, Longitude 122 degrees 9 minutes in the Caribou Mining District of British Columbia (see Figure I.1).

Table I.1 Gravelle Claim List (N.T.S. 93B/16E)

Claim Name	Record No.	Date of Record	Units
Gravelle	8287	March 5, 1987	20

Soil Grids

Gravelle property was staked to cover area drained by creeks with stream sediment samples of 35 to 125 ppb Au. One heavy mineral sample also ran 380 ppb Au in the -80 mesh non-magnetic fraction.

A broad reconnaissance grid with line separation of 200 meters was laid out with lines running due north and stations every 50 meters. 20-kilogram samples were also taken from near the base of creeks draining the property.

CIRCLE RESOURCES LTD.

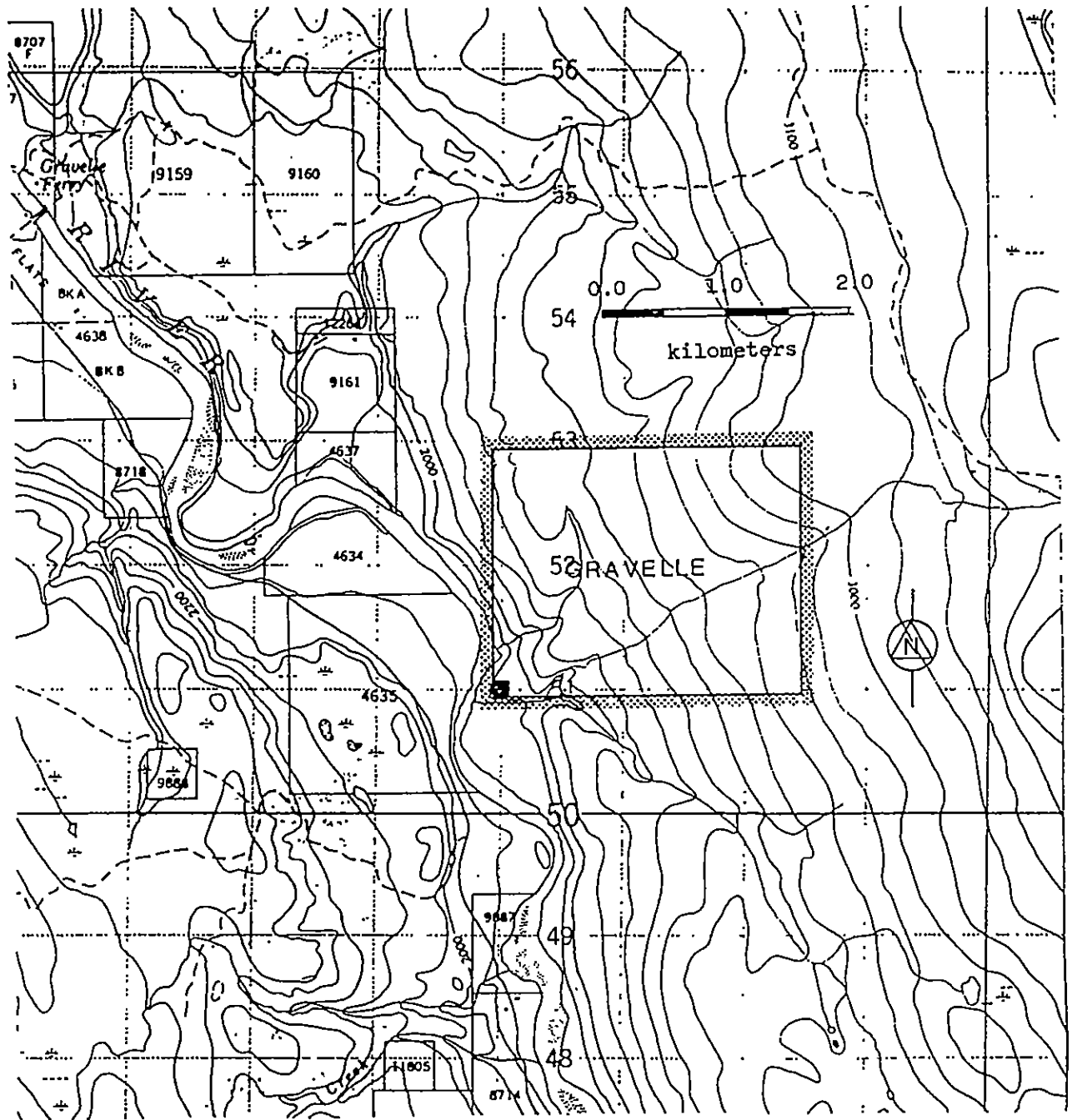


Figure I.a
Gravelle Property
Location Plan (1:50,000)

Work entailed:

- o 18.5 kilometers of flag line.
- o 340 soil samples.
- o 3 heavy mineral samples.

Geology

Gravelle is underlain mainly by a Cretaceous intrusive varying from biotite hornblende monzonite to granodiorite. Another phase found on the East of the property consists of leucocratic fine grained granite. (See Figure 3)

Within this intrusive and to the West of the property are zones of chlorite schist interpreted as metamorphosed equivalents of overlying Takla Volcanics.

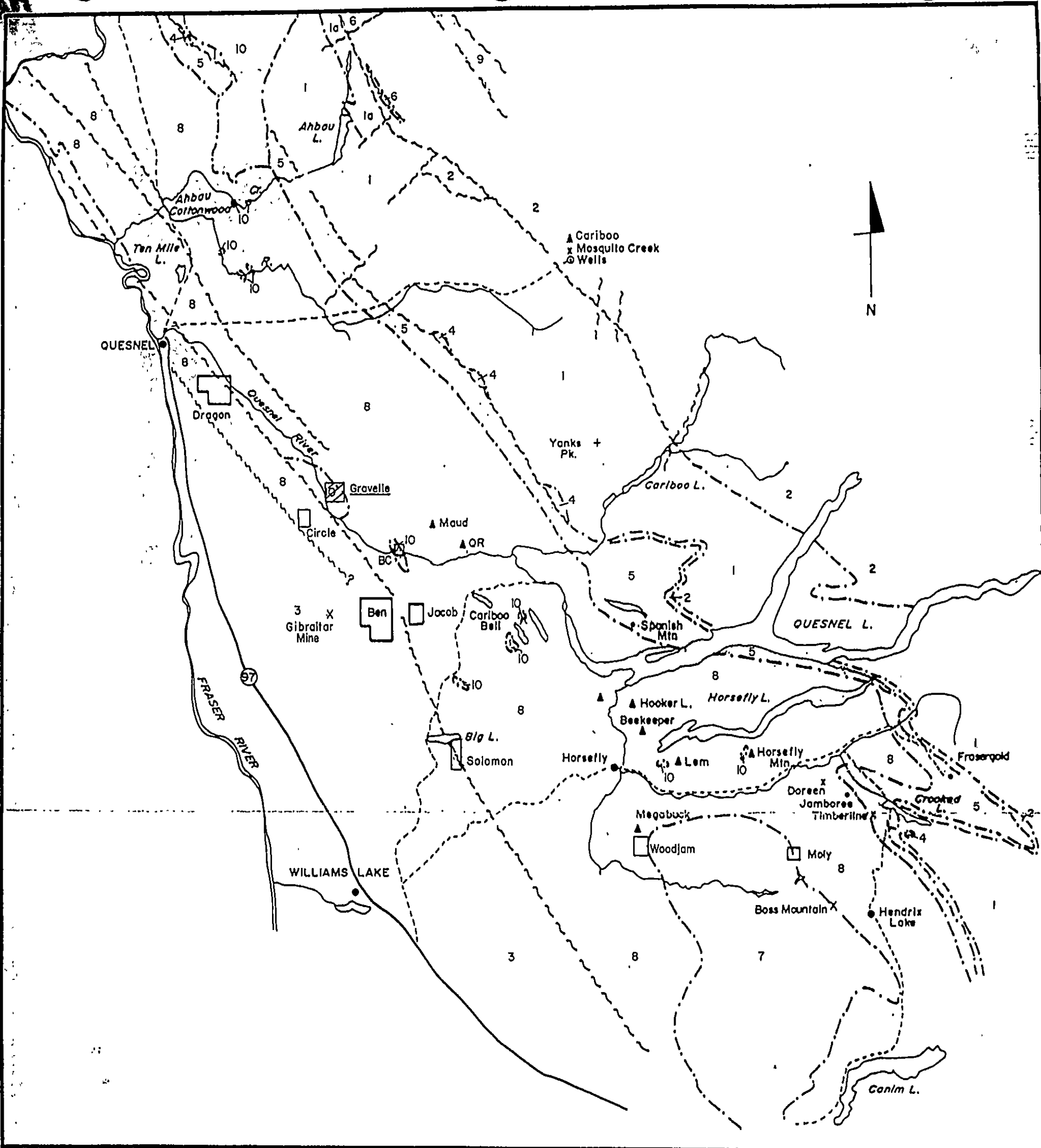
Prospecting

Outcrop is limited to creek exposures and the banks of the Quesnel River (1.5 km. north of the L.C.P. for Gravelle claim). Only 4 samples were analyzed from rocks collected.

Geochemistry

a. Soil Sampling

Soil samples were taken with a grubhoe from the 'B' horizon at 15-30 cm depth; sediment samples were taken from the active channel.



- | | | |
|--|---|---|
| <p>10 LOWER CRETACEOUS
Porphyritic Granite</p> <p>9 QUESNEL TERRANE
UPPER TRIASSIC and/or LOWER JURASSIC
Tokla Group
Greywacke, siltstone, minor conglomerate, argillite, augite porphyry breccia</p> <p>8 Alkalic basaltic and andesitic volcaniclastics, flows, augite porphyry breccias, limestone, conglomerate, slate and related diorite stocks, sills, and dykes</p> <p>7 LATE TRIASSIC
Tokomkane Batholith; granodiorite, quartz diorite, quartz monzonite</p> <p>6 UPPER TRIASSIC
Siltite, pelite, limestone, minor bioclastic limestone</p> <p>5 MIDDLE AND UPPER TRIASSIC
Black Phyllite, slate</p> <p>4 UPPER PALEOZOIC
Serpentinite, amphibolite</p> | <p>3 CACHE CREEK TERRANE
UPPER PALEOZOIC
Cache Creek Group
Basalt, chert, limestone</p> <p>2 SLIDE MOUNTAIN TERRANE
UPPER PALEOZOIC
Slide Mountain Group
Basalt, chert</p> <p>1 OMINECA CRYSTALLINE BELT
HADRYNIAN AND PALEOZOIC
Snowshoe Group
Undifferentiated gill, pelite, marble</p> <p>1a Gill, quartzite</p> | <p>Fault</p> <p>Geologic contact</p> <p>GOLD OCCURRENCES</p> <p>▲ Au Hydrothermal-Epigenetic</p> <p>• Au Stratobound</p> <p>X Au Bearing veins</p> <p>x Porphyry Cu/Mo Deposit</p> <p>— Road</p> <p>□ CIRCLE Claim group</p> |
|--|---|---|

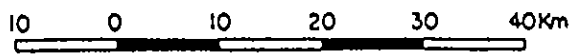


FIG. I.3

CIRCLE RESOURCES LTD.			
B.H. KAHLERT & ASSOC. LTD.			
QUESNEL PROJECT			
COMPILATION MAP			
Drawn By	lgc	Scale	1:750,000
Date	SEPT. '87	Project No	001

A number of single point gold anomalies with values up to 235 ppbh Au were encountered on the property.

High silver, ranging from 1.2 ppm to 2.0 ppm, forms several distinct zones, generally coincident with enriched Cu (60 to 187 ppm) and As (18 to 30 ppm). Two zones at the Eastern edge of the property stand out in particular. One extends from lines 2600E to 3000E and stations 8000N to 8700N. The other extends from 2600E to 2800E and 9200N to 9500N. It is noteworthy that As > 18 ppm is coincident to these zones of Ag enrichment.

Statistical analysis of soil sample results was carried out. This property was one of nine evaluated; a total of 4,234 soil samples were collected from Quesnellia Terrane properties. All samples were analyzed for Au, Ag, Cu, Pb, Zn, As, Sb. Basic statistical analysis of all samples was completed for comparative purposes and determining threshold and anomalous values. Results of all statistical results and distribution curves are shown in Appendix IV.

Rocks (See Plan I-2)

Only 4 samples were analyzed since creek exposures were generally of rather fresh looking weakly porphyritic granodiorite. Results showed all elements at marginal to

background levels except for a sample of vesicular basalt which ran 5.5 ppb Ag.

Heavy Mineral Samples

All 3 creeks returned heavy mineral samples with strongly anomalous Au associated with high As and Ag. (See Table I.2).

Table I.2 Heavy Mineral Samples on Gravelle Property

Sample Number	DM8	DM9	DM10
Location	1290E 8525N	1440E 8040N	1495E 8000N
-40 Mesh Au (ppb)	4600	42	1650
-80 Mesh Au (ppb)	2150	875	183
-40 Mesh As (ppm)	34	37	30
-80 Mesh As (ppm)	24	25	25
-40 Mesh Ag (ppm)	1.8	2.8	2.1
-80 Mesh Ag (ppm)	2.0	1.7	2.0

Property Magnetism (See Figure I.2)

The regional 1"=1 mile air magnetic survey shows Gravelle property to lie within a broad, openly contoured area consistent with a northwesterly elongate intrusive plug.

Evaluation

The geochem program on Gravelle M.C. based on widely spaced lines at 200 meter separation has shown the following significant

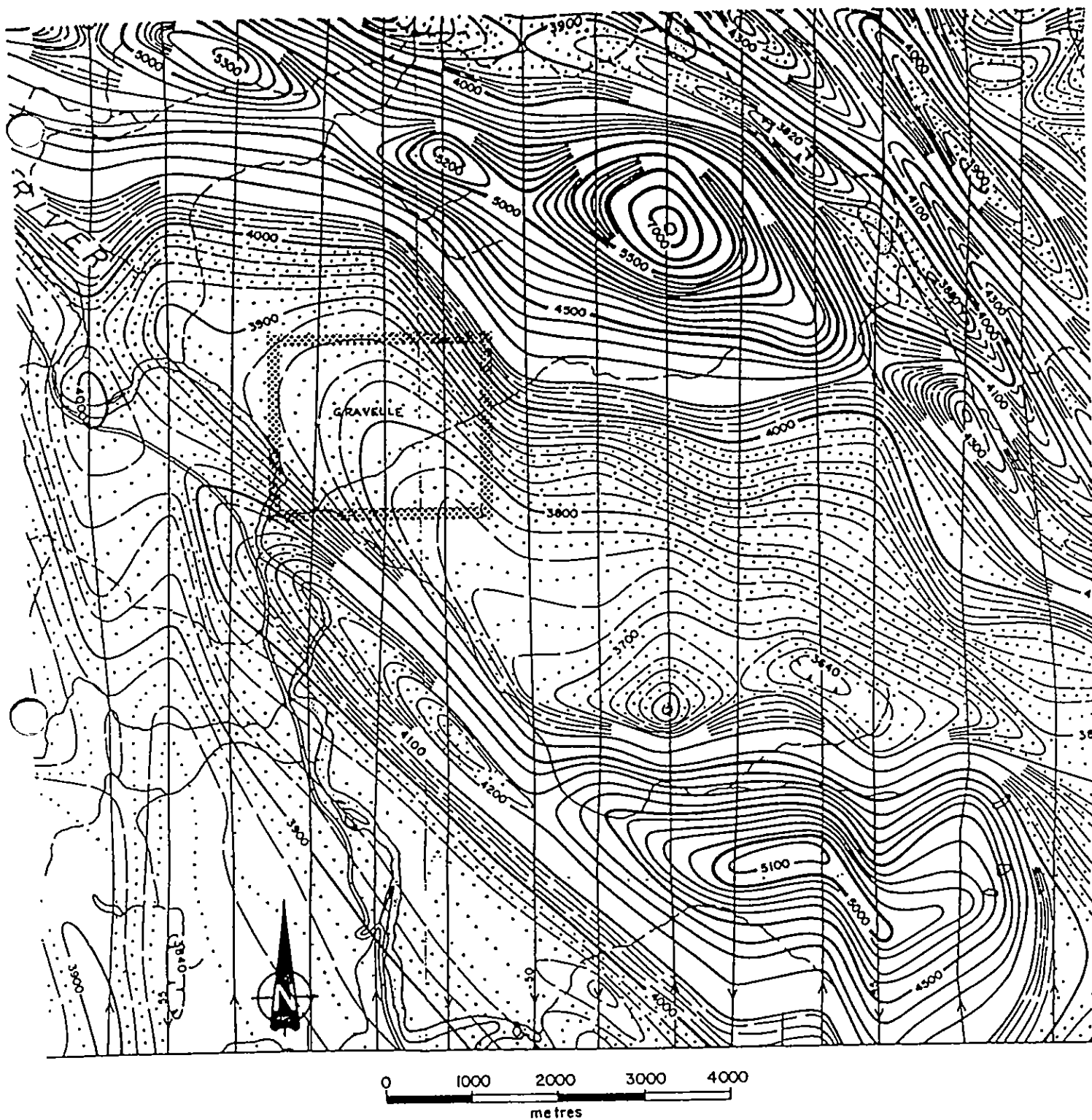


Figure I.2
Gravelle Property
Aeromagnetic Contour Map (1:62,500)

indications of Au and Ag mineralization:

- o a number of single point anomalous soil results of up to 235 ppb Au.
- o consistent zones of 1.2 to 2.0 ppb Ag on the Eastern edge of the property.
- o strongly anomalous Au in heavy mineral samples ranging from 183 to 2,150 ppb Au in the -80 mesh non-magnetic fraction.

Work Recommended

Phase I

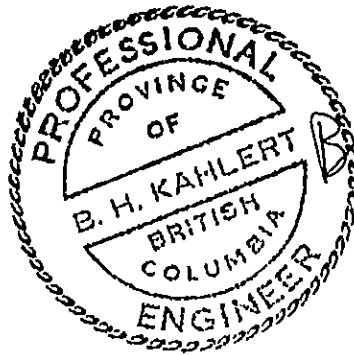
- o fill in sampling at 100 meter intervals over East half of property with extensions to North and East boundaries (450 samples).
- o detailed sampling at 50 meter intervals over Ag zones and adjacent spot Au values (200 samples).
- o prospecting follow-up on above zones to relate high values to source rocks.

Phase II

- o IP surveys over strongest zones.

Phase III

- o drill testing of targets developed using percussion or rotary methods.



B. H. Kahlert

APPENDIX I
GRAVELLE SOIL AND STREAM ANALYSES

FG

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

Analytical Report

Company: BEMA INDUSTRIES
Project: 87-24 I
Attention: B. KAHLERT

File: 7-1831
Date: NOV 23/87
Type: HEAVY MINERAL

Date Samples Received : NOV 5/87
Samples Submitted by : B. FRASER

Report on 3 HEAVY MINERAL (-40MESH) 3HM (-80MESH) Geochem Samples
..... Assay Samples
.....

Copies sent to:
1. BEMA INDUSTRIES, VANCOUVER, B.C.
2.
3.

Samples: Sieved to mesh Ground to mesh

Prepared samples stored: X discarded:
rejects stored: discarded:

Methods of analysis:
HM - SPECIFIC GRAVITY FLOTATION.
31 ELEMENT TRACE ICP.
AU-FIRE.

Remarks

! PPM)	HM SMP D		HM SMP D		HM SMP D	
	M 8 40M	M 9 40M	M 10 40M	M 8 80M	M 9 80M	M 10 80M
AG	1.8	2.1	2.8	2.0	2.0	1.7
AL	12460	14800	17320	7560	8540	8440
AS	34	30	37	24	25	25
B	16	13	18	9	7	7
BA	73	49	81	57	42	66
BE	2.5	1.6	2.4	1.9	1.8	1.9
BI	1	5	11	1	3	4
CA	23920	35380	38980	20680	29580	27060
CD	4.1	2.2	3.3	2.2	2.2	2.7
CO	10	10	13	9	9	9
CU	41	38	45	36	39	35
FE	87280	54150	83590	67310	61740	65920
K	350	460	510	320	290	370
LJ	8	6	7	6	5	5
MG	11290	11870	12470	9220	8010	9230
MN	1040	768	1093	530	533	529
MO	2	2	2	2	1	1
NA	150	310	310	100	150	160
NI	32	40	33	22	18	23
P	730	900	1080	1340	1980	1920
PB	17	14	14	11	11	6
SR	3	4	5	4	4	4
SR	1	48	51	6	27	24
TH	1	1	1	1	1	1
U	5	3	7	3	4	5
V	226.1	135.2	214.7	183.9	165.9	175.1
ZN	54	45	52	51	44	54
GA	1	1	1	1	1	1
SN	2	1	1	1	1	2
W	3	2	3	2	2	2
CR	162	136	160	52	50	63
AU-PPB	4600	1650	42	2150	183	875
HMZ	12.48	5.24	7.71	16.57	14.10	13.44

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(ACT:F31) PAGE 1 OF 1
 FILE NO: 7-1831/P13+14
 * TYPE SOIL GEOCHEM * DATE: NOV 17, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB
1000E 8000N	.3	2	16	13	1	105	5
1000E 8050N	.2	2	13	16	1	96	5
1000E 8100N	.2	1	16	18	1	67	5
1000E 8150N	.4	1	22	15	2	69	5
1000E 8200N	.6	6	27	19	1	80	10
1000E 8250N	.6	4	21	13	1	122	5
1000E 8300N	.5	3	15	14	2	91	5
1000E 8350N	.6	10	20	14	1	67	10
1000E 8400N	.4	6	7	14	2	94	5
1000E 8450N	.8	11	21	14	1	94	5
1000E 8500N	1.0	12	23	19	2	114	5
1000E 8550N	.9	11	40	18	1	68	5
1000E 8600N	.7	8	13	12	1	79	10
1000E 8650N	.7	6	12	13	1	51	5
1000E 8700N	.9	9	14	14	1	56	5
1000E 8750N	.5	3	9	15	2	63	5
1000E 8800N	.6	9	20	14	1	49	5
1000E 8850N	.5	10	16	10	1	48	5
1000E 8900N	.6	4	12	10	2	66	5
1000E 8950N	.6	8	14	12	1	52	5
1000E 9000N	.5	9	8	7	1	65	5
1000E 9050N	.7	6	29	16	1	48	180
1000E 9100N	.8	10	25	17	1	75	5
1000E 9150N	.6	10	17	15	1	70	10
1000E 9200N	.8	10	22	14	2	53	5
1000E 9250N	.8	10	17	12	2	53	5
1000E 9300N	.8	9	16	14	2	61	5
1000E 9350N	.3	2	17	8	1	77	10
1000E 9400N	.3	2	16	16	2	58	5
1000E 9450N	.6	7	13	15	2	75	5
1000E 9500N	.3	1	17	14	2	69	5
1200E 8000N	.2	1	14	9	1	61	5
1200E 8050N	.3	1	18	11	3	157	10
1200E 8100N	.4	1	12	9	2	129	5
1200E 8150N	.5	5	11	13	2	188	5
1200E 8200N	.5	2	10	11	2	96	5
1200E 8250N	.7	8	20	13	1	78	5
1200E 8300N	.4	5	11	12	2	92	10
1200E 8350N	.5	7	14	9	1	143	10
1200E 8400N	1.1	16	65	21	3	102	5
1200E 8450N	.8	9	38	19	2	132	5
1200E 8500N	1.0	11	46	23	1	77	5
1200E 8550N	.3	9	16	12	1	47	10
1200E 8600N	.4	8	12	9	1	66	5
1200E 8650N	.5	9	13	13	1	52	5
1200E 8700N	.5	9	13	12	1	64	5
1200E 8750N	.5	2	10	11	1	70	5
1200E 8800N	.5	8	12	11	1	82	5
1200E 8850N	.5	8	19	13	1	54	5
1200E 8900N	.7	9	18	12	2	63	10
1200E 8950N	.5	5	13	14	2	49	5
1200E 9000N	.8	10	15	12	2	99	5
1200E 9050N	.7	14	19	12	1	48	10
1200E 9100N	.7	16	22	14	2	51	10
1200E 9150N	.9	13	34	17	2	67	5
1200E 9200N	.5	9	17	13	1	50	5
1200E 9250N	.6	5	21	15	1	82	5
1200E 9300N	.5	7	9	10	1	59	5
1200E 9350N	.7	10	20	12	2	48	5
1200E 9400N	.8	13	18	13	3	56	5

Rec Nov 17/87

COMPANY: BEMA INDUSTRIES
 PROJECT NO: 87 24 I
 ATTENTION: B. KAHLERT

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 FILE NO: 7-1831/P15+16
 * TYPE SOIL GEOCHEM * DATE: NOV 17, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB
1200E 9450N	.7	3	21	13	1	86	10
1200E 9500N	.5	10	13	10	1	72	5
1400E 8000N	.7	1	30	15	1	119	5
1400E 8050N	1.4	8	58	25	1	97	5
1400E 8100N	.9	5	40	17	2	85	10
1400E 8150N	.6	2	17	8	2	53	5
1400E 8200N	.7	2	45	12	2	68	10
1400E 8250N	.4	4	18	7	1	56	5
1400E 8300N	.4	2	12	12	2	72	5
1400E 8350N	.5	2	15	10	1	64	10
1400E 8400N	.8	6	18	11	2	80	5
1400E 8450N	.7	7	33	16	3	70	5
1400E 8500N	.7	5	19	12	2	56	5
1400E 8550N	1.0	4	34	16	4	94	10
1400E 8600N	1.0	8	49	18	3	108	5
1400E 8650N	.7	2	46	14	1	67	10
1400E 8700N	.5	6	14	8	1	48	5
1400E 8750N	.8	1	52	10	1	58	5
1400E 8800N	.4	2	17	11	1	76	5
1400E 8850N	.6	2	17	13	1	99	10
1400E 8900N	.5	1	19	18	2	114	5
1400E 8950N	.6	5	17	11	3	70	5
1400E 9000N	.6	2	16	11	2	66	5
1400E 9050N	.7	2	21	16	2	64	10
1400E 9100N	.9	1	21	16	2	90	5
1400E 9150N	.8	6	22	15	2	94	5
1400E 9200N	1.2	1	34	11	3	106	10
1400E 9250N	1.1	1	23	12	3	93	5
1400E 9300N	.9	7	23	13	3	81	5
1400E 9350N	1.1	1	28	12	1	85	5
1400E 9400N	.6	1	20	15	1	78	5
1400E 9450N	.3	1	11	11	1	56	10
1400E 9500N	.4	1	18	12	1	64	5
1600E 8000N	1.2	6	53	22	1	83	5
1600E 8050N	.6	2	19	13	1	69	5
1600E 8100N	1.1	10	56	19	2	107	10
1600E 8150N	1.2	4	54	19	1	87	5
1600E 8200N	.6	1	26	10	2	56	20
1600E 8250N	1.1	3	64	20	3	103	5
1600E 8300N	.8	1	50	14	2	75	5
1600E 8350N	.7	1	17	11	3	68	5
1600E 8400N	.7	1	18	10	2	99	5
1600E 8450N	.7	1	17	17	3	118	5
1600E 8500N	.6	2	28	11	2	72	5
1600E 8550N	.8	2	24	14	3	86	5
1600E 8600N	.5	2	23	12	2	59	5
1600E 8650N	.3	1	15	13	2	49	5
1600E 8700N	.8	4	26	12	3	57	5
1600E 8750N	.7	6	32	11	3	44	60
1600E 8800N	.9	6	31	11	1	35	5
1600E 8850N	.8	3	20	15	3	48	5
1600E 8900N	.8	1	47	15	3	71	10
1600E 8950N	.6	2	22	11	3	49	5
1600E 9000N	.7	2	25	11	2	80	5
1600E 9050N	.6	4	14	7	2	55	5
1600E 9100N	.6	1	25	19	3	86	5
1600E 9150N	.3	6	18	11	2	48	10
1600E 9200N	.6	7	26	15	2	79	5
1600E 9250N	.3	3	11	7	2	40	5
1600E 9300N	.6	11	16	13	2	46	5

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 FILE NO: 7-1831/P17+18

* TYPE SOIL GEOCHEM * DATE: NOV 17, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB
1600E 9350N	.4	9	18	7	1	57	5
1600E 9400N	.2	1	13	9	1	43	10
1600E 9450N	.4	1	17	11	1	58	5
1600E 9500N	.8	3	19	11	1	75	5
1800E 8000N	1.1	6	39	16	1	71	5
1800E 8050N	.3	3	27	18	1	84	5
1800E 8100N	.6	16	16	13	1	184	5
1800E 8150N	.5	3	19	16	2	101	10
1800E 8200N	1.1	1	65	20	1	97	5
1800E 8250N	1.0	8	40	20	2	59	5
1800E 8300N	1.0	6	40	15	2	93	5
1800E 8350N	.8	9	21	13	3	61	5
1800E 8400N	.7	1	23	10	1	71	5
1800E 8450N	.9	11	21	17	3	65	10
1800E 8500N	1.0	4	34	14	2	108	5
1800E 8550N	.8	1	29	17	1	98	5
1800E 8600N	.7	3	26	13	2	101	5
1800E 8650N 40M	1.0	2	40	17	2	128	5
1800E 8700N 40M	1.4	27	76	19	3	157	5
1800E 8750N	.6	2	30	12	2	76	5
1800E 8800N	.8	1	29	14	2	127	10
1800E 8850N	.9	3	25	21	2	121	10
1800E 8900N	.4	2	17	15	2	63	5
1800E 8950N	.3	4	14	14	2	73	5
1800E 9000N	.6	6	18	11	2	55	5
1800E 9050N	.7	5	18	10	2	66	5
1800E 9100N	.6	4	13	6	1	101	5
1800E 9150N	.8	2	27	14	2	74	5
1800E 9200N	.3	5	5	7	1	23	5
1800E 9250N	.4	2	14	14	2	54	5
1800E 9300N	.5	5	16	18	1	62	5
1800E 9350N	.2	2	15	11	2	64	5
1800E 9400N	.7	6	24	19	2	55	10
1800E 9450N	.6	8	16	12	2	38	5
1800E 9500N	.8	8	15	12	2	47	5
2000E 8000N	.8	10	18	12	3	68	5
2000E 8050N	.6	9	20	16	3	58	5
2000E 8100N	.8	7	23	13	3	67	10
2000E 8150N	.6	8	28	12	4	65	10
2000E 8200N	.6	6	14	9	2	78	5
2000E 8250N	.7	2	21	14	3	104	5
2000E 8300N	.8	7	39	17	4	63	5
2000E 8350N	.6	1	27	8	1	114	5
2000E 8400N	.6	6	15	8	3	43	5
2000E 8450N	.6	8	19	14	3	52	5
2000E 8500N	.6	3	17	12	2	51	5
2000E 8550N	.7	5	13	15	3	65	5
2000E 8600N	.5	6	22	14	3	53	5
2000E 8650N	.6	9	16	9	3	45	10
2000E 8700N	.5	6	17	10	3	52	5
2000E 8750N	.5	8	17	10	3	75	5
2000E 8800N	1.0	1	34	13	2	89	5
2000E 8850N	.5	6	16	13	3	69	5
2000E 8900N	.5	9	24	15	3	71	5
2000E 8950N	.7	1	13	11	2	85	5
2000E 9000N	.7	10	15	14	2	70	10
2000E 9050N	.6	4	14	11	3	77	10
2000E 9100N	.6	1	14	14	2	58	5
2000E 9150N 40M	2.0	24	114	28	4	76	5
2000E 9200N	1.2	7	48	15	3	63	5

COMPANY: BEMA INDUSTRIES
 PROJECT NO: 87 24 I
 ATTENTION: D. KAHLERT

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(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB
2000E 9250N	1.3	1	34	12	2	133	5
2000E 9300N	.7	6	13	9	1	66	5
2000E 9350N	1.2	3	27	12	3	89	10
2000E 9400N	1.1	2	20	12	2	164	5
2000E 9450N	1.2	9	17	13	3	95	5
2000E 9500N	.7	2	20	10	1	73	5
2200E 8000N	.4	1	27	14	1	71	20
2200E 8050N	1.1	10	36	13	1	61	5
2200E 8100N	.8	16	30	16	3	65	5
2200E 8150N	.8	3	43	15	3	74	5
2200E 8200N	.7	11	28	13	3	55	5
2200E 8250N	.6	10	31	14	2	59	5
2200E 8300N	.8	9	33	13	3	64	10
2200E 8350N 40M	1.0	4	34	13	2	102	5
2200E 8400N	.9	5	25	14	4	79	5
2200E 8450N	.9	9	40	14	4	70	5
2200E 8500N	.8	6	22	12	4	84	10
2200E 8550N	.8	9	13	12	2	80	5
2200E 8600N	.8	7	16	9	2	90	5
2200E 8650N	1.2	1	42	13	2	181	5
2200E 8700N 40M	.8	1	30	11	3	109	10
2200E 8750N	1.1	30	52	6	3	174	5
2200E 8800N	.9	19	41	8	3	147	5
2200E 8850N	1.2	24	32	14	3	166	5
2200E 8900N	1.1	6	19	10	4	79	5
2200E 8950N	1.3	8	48	13	4	95	10
2200E 9000N	1.4	5	44	13	4	106	10
2200E 9050N	1.5	35	187	10	5	110	5
2200E 9100N	.6	7	19	12	2	87	5
2200E 9150N	.5	6	14	10	2	52	5
2200E 9200N	.3	4	11	12	1	69	5
2200E 9250N	.3	1	17	11	1	44	5
2200E 9300N	.4	6	13	15	1	39	5
2200E 9350N	.8	3	15	14	3	33	5
2200E 9400N	.8	4	21	7	3	44	10
2200E 9450N	.8	4	18	10	2	49	235
2200E 9500N	1.0	1	27	16	2	101	15
2400E 8000N	1.0	7	19	16	3	44	5
2400E 8050N	.8	1	20	15	3	48	5
2400E 8100N	.8	9	24	15	3	70	5
2400E 8150N	.7	5	15	12	2	79	5
2400E 8200N	.8	4	18	9	3	50	10
2400E 8250N	.8	2	17	11	4	105	5
2400E 8300N	.5	10	24	13	1	57	5
2400E 8350N	.7	1	19	10	2	72	5
2400E 8400N	.5	1	16	11	2	66	5
2400E 8450N	.6	2	11	10	3	52	5
2400E 8500N	.8	4	24	8	3	38	10
2400E 8550N	1.1	6	40	17	4	53	15
2400E 8600N	.7	7	13	10	3	51	5
2400E 8650N	.7	6	16	9	3	58	5
2400E 8700N	.7	8	22	13	3	46	5
2400E 8750N	.7	10	15	10	3	51	5
2400E 8800N	.9	1	26	10	3	68	5
2400E 8850N	.7	7	16	7	2	34	5
2400E 8900N	.6	2	16	11	2	78	5
2400E 8950N	1.0	5	31	12	2	54	5
2400E 9000N	.8	12	21	9	2	62	5
2400E 9050N	.7	1	18	12	2	68	10
2400E 9100N	1.5	2	90	16	3	107	5

COMPANY: BEMA INDUSTRIES
 PROJECT NO: 87 24 I
 ATTENTION: B. KAHLERT

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 (604)980-5814 OR (604)988-4524

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 FILE NO: 7-1031/P21+22
 * TYPE SOIL GEOCHEM * DATE: NOV 17, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB
2400E 9150N	1.0	3	23	15	2	86	5
2400E 9200N	.4	3	15	11	3	51	5
2400E 9250N	.6	7	16	10	3	56	5
2400E 9300N	.6	6	26	14	2	74	10
2400E 9350N	.9	11	18	12	3	49	5
2400E 9400N	.7	9	16	13	3	48	5
2400E 9450N	.8	5	17	15	2	58	5
2400E 9500N	.8	4	16	12	3	52	5
2600E 8000N	.8	1	13	11	3	69	5
2600E 8050N	1.4	2	59	11	2	89	5
2600E 8100N	1.6	7	67	12	4	216	10
2600E 8150N	1.6	1	86	19	3	95	10
2600E 8200N	1.4	4	51	11	3	63	5
2600E 8250N	1.0	3	27	14	3	50	5
2600E 8300N	1.2	5	32	13	3	42	5
2600E 8350N	1.3	4	31	17	4	69	5
2600E 8400N	1.0	9	21	14	4	45	5
2600E 8450N	.8	7	19	10	4	39	5
2600E 8500N	1.1	6	25	16	4	48	5
2600E 8550N	.9	4	31	14	4	50	10
2600E 8600N	1.2	5	23	12	4	46	5
2600E 8650N	.9	11	18	10	3	42	5
2600E 8700N	.9	4	14	9	3	58	5
2600E 8750N	.7	1	17	7	3	79	10
2600E 8800N	.9	8	19	17	4	82	5
2600E 8850N	.9	1	24	10	3	147	5
2600E 8900N	.9	6	14	13	4	67	5
2600E 8950N	.6	2	11	11	3	54	5
2600E 9000N	.9	4	16	17	3	41	5
2600E 9050N	1.1	7	27	32	4	58	10
2600E 9100N	.6	8	15	14	1	47	5
2600E 9150N	.7	7	10	13	1	52	10
2600E 9200N	1.0	14	17	12	2	78	10
2600E 9250N	1.2	2	20	16	3	62	5
2600E 9300N	1.6	1	26	18	3	75	5
2600E 9350N	1.9	18	121	11	11	142	5
2600E 9400N	1.0	1	10	9	1	57	115
2600E 9450N	1.2	12	18	11	2	68	15
2600E 9500N	1.0	1	10	8	1	37	10
2800E 8000N	1.0	1	16	6	2	41	10
2800E 8050N	1.0	1	19	8	1	62	5
2800E 8100N	1.1	1	33	6	2	59	5
2800E 8150N	1.2	14	39	13	1	62	5
2800E 8200N	.8	5	18	12	1	50	10
2800E 8250N	1.7	15	125	13	1	68	5
2800E 8300N	1.0	13	33	12	1	46	5
2800E 8350N	1.3	13	124	13	1	132	5
2800E 8400N	1.2	1	35	11	1	45	5
2800E 8450N	1.5	1	47	15	2	51	5
2800E 8500N	1.5	16	60	11	2	56	10
2800E 8550N	1.0	11	17	9	2	44	10
2800E 8600N	1.2	14	30	15	1	58	5
2800E 8650N	1.2	11	24	11	2	56	5
2800E 8700N	1.0	1	12	12	2	38	25
2800E 8750N	.9	3	7	9	3	61	10
2800E 8800N	1.1	5	8	13	3	55	20
2800E 8850N	.8	1	6	9	1	49	5
2800E 8900N	.8	11	12	11	3	56	5
2800E 8950N	.3	1	5	7	2	40	5
2800E 9000N	.7	1	15	8	3	52	5

COMPANY: BEMA INDUSTRIES
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 * TYPE SOIL GEOCHEM * DATE: NOV 17, 1987

(VALUES IN PPM)	AG	AS	CU	PB	SB	ZN	AU-PPB
2800E 9050N	1.0	14	17	14	1	78	5
2800E 9100N	.4	3	6	12	2	41	10
2800E 9150N	1.1	2	16	17	3	42	5
2800E 9200N	1.2	2	20	13	2	53	5
2800E 9250N	1.1	13	17	11	1	56	5
2800E 9300N	.8	5	12	12	2	37	5
2800E 9350N	1.5	7	14	21	3	107	5
2800E 9400N	1.0	18	14	6	2	86	5
2800E 9500N	1.0	5	12	12	1	44	5
3000E 8000N	1.5	19	128	4	2	79	5
3000E 8050N	1.5	1	37	10	1	66	10
3000E 8100N	1.5	21	61	13	2	79	5
3000E 8150N	1.6	18	80	14	2	119	5
3000E 8200N	1.1	4	20	12	2	49	5
3000E 8250N	1.4	21	46	13	3	97	5
3000E 8300N	1.3	7	23	14	2	42	5
3000E 8350N	1.8	18	103	13	3	76	5
3000E 8400N	1.5	19	34	10	3	49	10
3000E 8450N	1.4	12	35	10	2	63	5
3000E 8500N	.9	1	16	12	2	50	10
3000E 8550N	1.2	6	21	10	3	44	5
3000E 8600N	1.3	2	28	13	3	47	10
3000E 8650N	.8	5	12	7	2	33	10
3000E 8700N	1.0	8	10	6	3	31	5
3000E 8750N	.8	8	10	10	2	34	5
3000E 8800N	1.0	7	10	11	2	29	5
3000E 8850N	1.1	1	13	10	2	53	5
3000E 8900N	1.1	12	15	13	3	32	5
3000E 8950N	1.1	1	34	9	2	30	5
3000E 9000N	1.0	1	14	10	2	68	5
3000E 9050N	.4	1	11	12	1	31	5
3000E 9100N	.4	1	15	19	1	28	10
3000E 9150N	.7	1	15	11	1	77	10
3000E 9200N	.8	4	28	15	2	83	5
3000E 9250N	.6	3	10	10	2	42	5
3000E 9300N	.8	3	16	19	2	33	5
3000E 9350N	.7	1	9	22	2	51	5
3000E 9400N	1.0	8	11	18	2	56	5
3000E 9450N	1.0	2	13	10	1	56	5
3000E 9500N	1.1	2	14	12	1	100	5

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

Corner 15th Street and Bewicke
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

GOLD GEOCHEMICAL ANALYSIS BY MIN-EN LABORATORIES LTD.

Geochemical samples for Gold processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized by ceramic plated pulverizer.

A suitable sample weight 5.0 or 10.0 grams are pretreated with HNO_3 and HClO_4 mixture.

After pretreatments the samples are digested with Aqua Regia solution, and after digestion the samples are taken up with 25% HCl to suitable volume.

Further oxidation and treatment of at least 75% of the original sample solutions are made suitable for extraction of gold with Methyl Iso-Butyl Ketone.

With a set of suitable standard solution gold is analysed by Atomic Absorption instruments. The obtained detection limit is 0.005 ppm (5ppb).

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

Corner 15th Street and Bewick
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

September 7, 1984.

ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK - FOR WHOLE ROCK ANALYSIS

Samples are processed by Min-En Laboratories Ltd, at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by jaw crusher and pulverized by ceramic plated pulverizer.

1.0 gram of the samples are digested for 6 hours with HNO₃ and HClO₄ HF mixture.

For those elements which do not yield complete dissolution, a Lithium tetraborate dissolution or potassium hydroxide dissolution is applied.

After cooling samples are diluted to standard volume. The solutions are analysed by computer operated Jarrell Ash 9000 ICP. Inductively coupled Plasma Analyser. Reports are formatted by routing computer dotline print out.

APPENDIX II

GRAVELLE PROPERTY ROCK DESCRIPTIONS

Sample	Type	Location	Description
	(float)		
	(subosp.)		
	(outcrop)		
39 101	*	North trib., Gravelle M.C.	Vesicular basalt
139 094	f	950 m. down ck from E rdry of Gravelle MC	BK pyritic biotite hornfels
139 095	f	140 m up ck from 1600E-8750N	Gneiss, trace py
139 097	f	55 m down ck from 1600E-8200N	Qtz-hhhd schist, 2% py, trace cpy
139 098	o	2800E-8750N in ck above old rd	Chlorite schist, trace py
139 172	f	650 m above confluence of 2 South Cks.	Chlorite schist, MnO2 dendrites on fracs
139 177	o	Quesnel River, NW of Gravelle M	Str. chl granodiorite?, cataclastic layering(26/.
139 178	o	Same as 39177, small 5' adit	Layered gnostone pendant within 139177

APPENDIX III

GRAVELLE PROPERTY ROCK GEOCHEM

(Values in ppm except for Au (pph))

Sample	Ag	As	B	Ba	Cu	K	Na	Ni	Pb	Sh	V	Zn	Au
39 101	4.7	33	36	300	55	10620	18010	133	33	5	93.2	139	3
139 172	0.5	7	2	102	20	6420	820	6	12	1	33.5	45	5
139 177	1.7	9	13	218	5	13540	610	15	19	6	143.3	108	2
139 178	1.4	15	10	98	15	9210	450	26	18	1	89.0	96	5

APPENDIX IV
STATISTICS FOR QUESNEL PROJECT SOILS

Basic Statistics for Quesnel Project Soil Results

Element	# assays	max	min	mean	s.d.
Ag	4234	4.5	0.1	0.8	0.3
As	4234	441	1.0	8.9	10.4
Cu	4234	413	1.0	27.5	27.5
Pb	4234	53	2.0	12.3	4.1
Sb	4234	32	1.0	2.4	1.5
Zn	4234	813	2.0	87.0	43.8
Au	4234	2800	1.0	11.7	86.7

Threshold Values for Quesnel Project Soil Results

Element	Threshold Values		
	90%	95%	99%
Ag	1.1	1.3	1.8
As	16.0	21.0	33.0
Cu	44.0	64.0	160.0
Pb	16.0	18.0	23.0
Sb	3.0	4.0	6.0
Zn	130.0	160.0	230.0
Au	5.0	10.0	45.0

Silver Distribution for Soil Geochem (from 4234 analyses)

From	To	Freq.	Cum.	Cum. %
0.0	0.1	12	12	0.3
0.1	0.2	29	41	1.0
0.2	0.3	136	177	4.2
0.3	0.4	220	397	9.4
0.4	0.5	374	771	18.2
0.5	0.6	556	1327	31.3
0.6	0.7	652	1979	46.7
0.7	0.8	629	2608	61.6
0.8	0.9	485	3093	73.1
0.9	1.0	358	3451	81.5
1.0	1.1	278	3729	88.1
1.1	1.2	166	3895	92.0
1.2	1.3	104	3999	94.4
1.3	1.4	62	4061	95.9
1.4	1.5	57	4118	97.3
1.5	1.6	30	4148	98.0
1.6	1.7	20	4168	98.4
1.7	1.8	8	4176	98.6
1.8	1.9	13	4189	98.9
1.9	2.0	8	4197	99.1
2.0	2.1	7	4204	99.3
2.1	2.2	6	4210	99.4
2.2	2.3	6	4216	99.6
2.3	2.4	4	4220	99.7
2.4	2.5	2	4222	99.7
2.5	>2.5	12	4234	100.0

Arsenic Distribution for Soil Geochem (from 4234 analyses)

From	To	Freq.	Cum.	Cum. %
0	1	686	686	16.2
1	2	218	904	21.4
2	3	231	1135	26.8
3	4	236	1371	32.4
4	5	263	1634	38.6
5	6	233	1867	44.1
6	7	236	2103	49.7
7	8	260	2363	55.8
8	9	239	2602	61.5
9	10	214	2816	66.5
10	11	197	3013	71.2
11	12	177	3190	75.3
12	13	176	3366	79.5
13	14	146	3512	82.9
14	15	116	3628	85.7
15	16	116	3744	88.4
16	17	77	3821	90.2
17	18	64	3885	91.8
18	19	58	3943	93.1
19	20	38	3981	94.0
20	21	38	4019	94.9
21	22	29	4048	95.6
22	23	26	4074	96.2
23	24	21	4095	96.7
24	25	16	4111	97.1
25	26	12	4123	97.4
26	27	14	4137	97.7
27	28	9	4146	97.9
28	29	15	4161	98.3
29	30	9	4170	98.5
30	31	12	4182	98.8
31	32	5	4187	98.9
32	33	5	4192	99.0
33	34	10	4202	99.2
34	35	6	4208	99.4
35	36	6	4214	99.5
36	37	0	4214	99.5
37	38	3	4217	99.6
38	39	3	4220	99.7
39	40	2	4222	99.7
40	>40	12	4234	100.0

Copper Distribution for Soil Geochem (from 4234 analyses)

From	To	Freq.	Cum.	Cum. %
0	4	14	14	0.3
4	8	65	79	1.9
8	12	357	436	10.3
12	16	822	1258	29.7
16	20	942	2200	52.0
20	24	627	2827	66.8
24	28	350	3177	75.0
28	32	224	3401	80.3
32	36	171	3572	84.4
36	40	129	3701	87.4
40	44	90	3791	89.5
44	48	80	3871	91.4
48	52	46	3917	92.5
52	56	42	3959	93.5
56	60	38	3997	94.4
60	64	23	4020	94.9
64	68	20	4040	95.4
68	72	15	4055	95.8
72	76	20	4075	96.2
76	80	11	4086	96.5
80	84	11	4097	96.8
84	88	7	4104	96.9
88	92	9	4113	97.1
92	96	5	4118	97.3
96	100	5	4123	97.4
100	104	10	4133	97.6
104	108	5	4138	97.7
108	112	4	4142	97.8
112	116	5	4147	97.9
116	120	8	4155	98.1
120	124	8	4163	98.3
124	128	8	4171	98.5
128	132	4	4175	98.6
132	136	1	4176	98.6
136	140	2	4178	98.7
140	144	2	4180	98.7
144	148	4	4184	98.8
148	152	2	4186	98.9
152	156	2	4188	98.9
156	160	2	4190	99.0
160	>160	44	4234	100.0

Lead Distribution for Soil Geochem (from 4234 analyses)

From	To	Freq.	Cum.	Cum. %
0	1	0	0	0.0
1	2	3	3	0.1
2	3	12	15	0.4
3	4	58	73	1.7
4	5	90	163	3.8
5	6	140	303	7.2
6	7	183	486	11.5
7	8	229	715	16.9
8	9	289	1004	23.7
9	10	391	1395	32.9
10	11	435	1830	43.2
11	12	467	2297	54.3
12	13	439	2736	64.6
13	14	380	3116	73.6
14	15	354	3470	82.0
15	16	225	3695	87.3
16	17	166	3861	91.2
17	18	105	3966	93.7
18	19	90	4056	95.8
19	20	53	4109	97.0
20	21	39	4148	98.0
21	22	23	4171	98.5
22	23	18	4189	98.9
23	24	10	4199	99.2
24	25	9	4208	99.4
25	26	7	4215	99.6
26	27	4	4219	99.6
27	28	1	4220	99.7
28	29	3	4223	99.7
29	30	1	4224	99.8
30	>30	10	4234	100.0

Antimony Distribution for Soil Geochem (from 4234 analyses)

From	To	Freq.	Cum.	Cum. %
0	1	1336	1336	31.6
1	2	1253	2589	61.1
2	3	976	3565	84.2
3	4	402	3967	93.7
4	5	147	4114	97.2
5	6	61	4175	98.6
6	7	24	4199	99.2
7	8	14	4213	99.5
8	9	9	4222	99.7
9	10	5	4227	99.8
10	>10	7	4234	100.0

Zinc Distribution for Soil Geochem (from 4234 analyses)

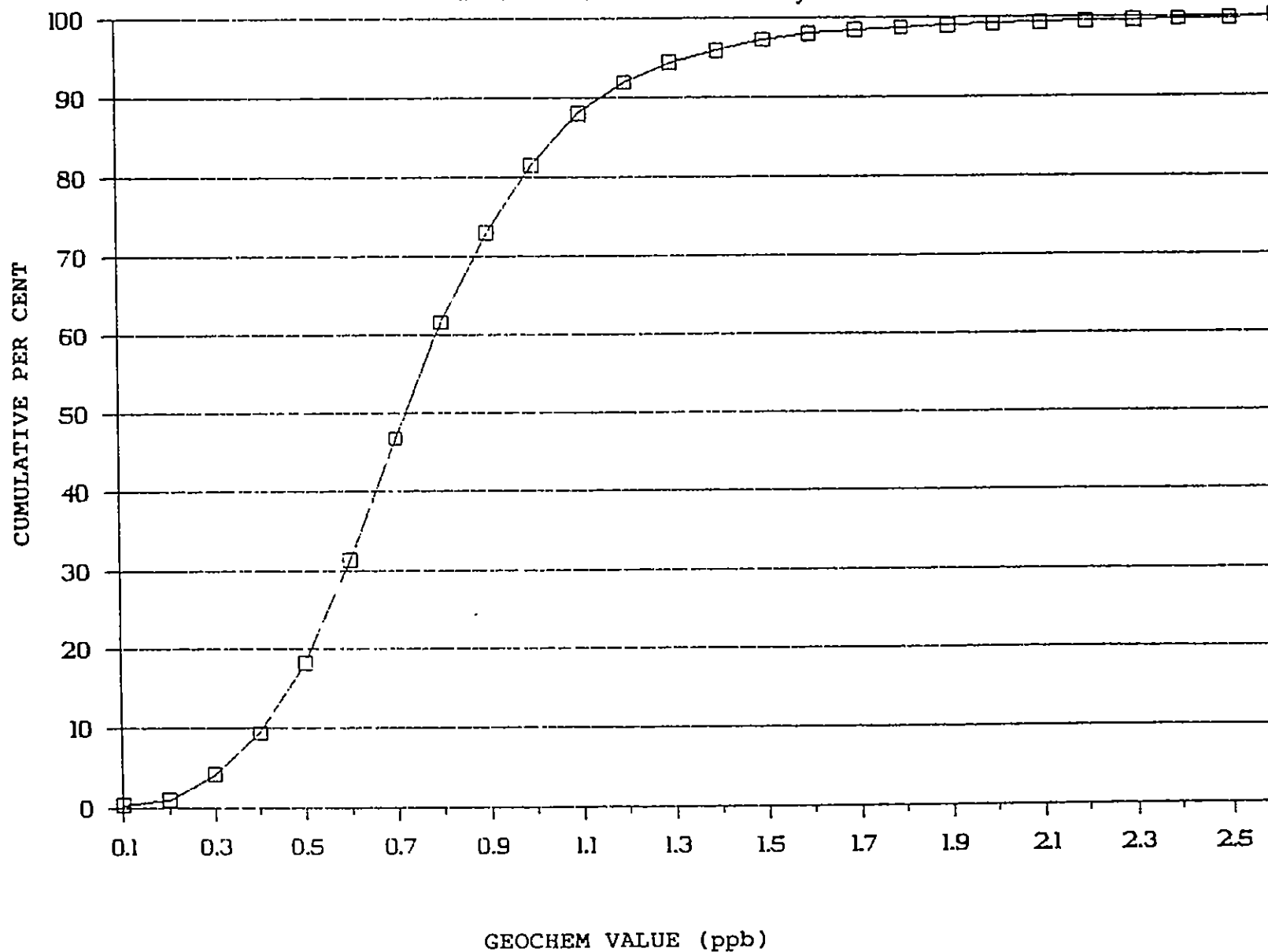
From	To	Freq.	Cum.	Cum. %
0	10	14	14	0.3
10	20	27	41	1.0
20	30	36	77	1.8
30	40	112	189	4.5
40	50	420	609	14.4
50	60	529	1138	26.9
60	70	570	1708	40.3
70	80	543	2251	53.2
80	90	426	2677	63.2
90	100	376	3053	72.1
100	110	268	3321	78.4
110	120	258	3579	84.5
120	130	151	3730	88.1
130	140	128	3858	91.1
140	150	90	3948	93.2
150	160	63	4011	94.7
160	170	61	4072	96.2
170	180	30	4102	96.9
180	190	36	4138	97.7
190	200	16	4154	98.1
200	210	14	4168	98.4
210	220	6	4174	98.6
220	230	10	4184	98.8
230	240	13	4197	99.1
240	250	9	4206	99.3
250	260	6	4212	99.5
260	270	3	4215	99.6
270	280	4	4219	99.6
280	290	2	4221	99.7
290	300	2	4223	99.7
300	>300	11	4234	100.0

Gold Distribution for Soil Geochem (from 4234 analyses)

From	To	Freq.	Cum.	Cum. %
0	5	3052	3052	72.1
5	10	905	3957	93.5
10	15	117	4074	96.2
15	20	67	4141	97.8
20	25	23	4164	98.3
25	30	15	4179	98.7
30	35	5	4184	98.8
35	40	4	4188	98.9
40	45	3	4191	99.0
45	50	6	4197	99.1
50	55	2	4199	99.2
55	60	5	4204	99.3
60	65	1	4205	99.3
65	70	0	4205	99.3
70	75	0	4205	99.3
75	80	0	4205	99.3
80	85	1	4206	99.3
85	90	1	4207	99.4
90	95	0	4207	99.4
95	100	1	4208	99.4
100	105	0	4208	99.4
105	110	1	4209	99.4
110	115	1	4210	99.4
115	120	0	4210	99.4
120	125	0	4210	99.4
125	130	2	4212	99.5
130	135	2	4214	99.5
135	140	1	4215	99.6
140	145	0	4215	99.6
145	150	0	4215	99.6
150	155	0	4215	99.6
155	160	0	4215	99.6
160	165	0	4215	99.6
165	170	0	4215	99.6
170	175	0	4215	99.6
175	180	1	4216	99.6
180	185	0	4216	99.6
185	190	0	4216	99.6
190	195	0	4216	99.6
195	200	0	4216	99.6
200	>200	18	4234	100.0

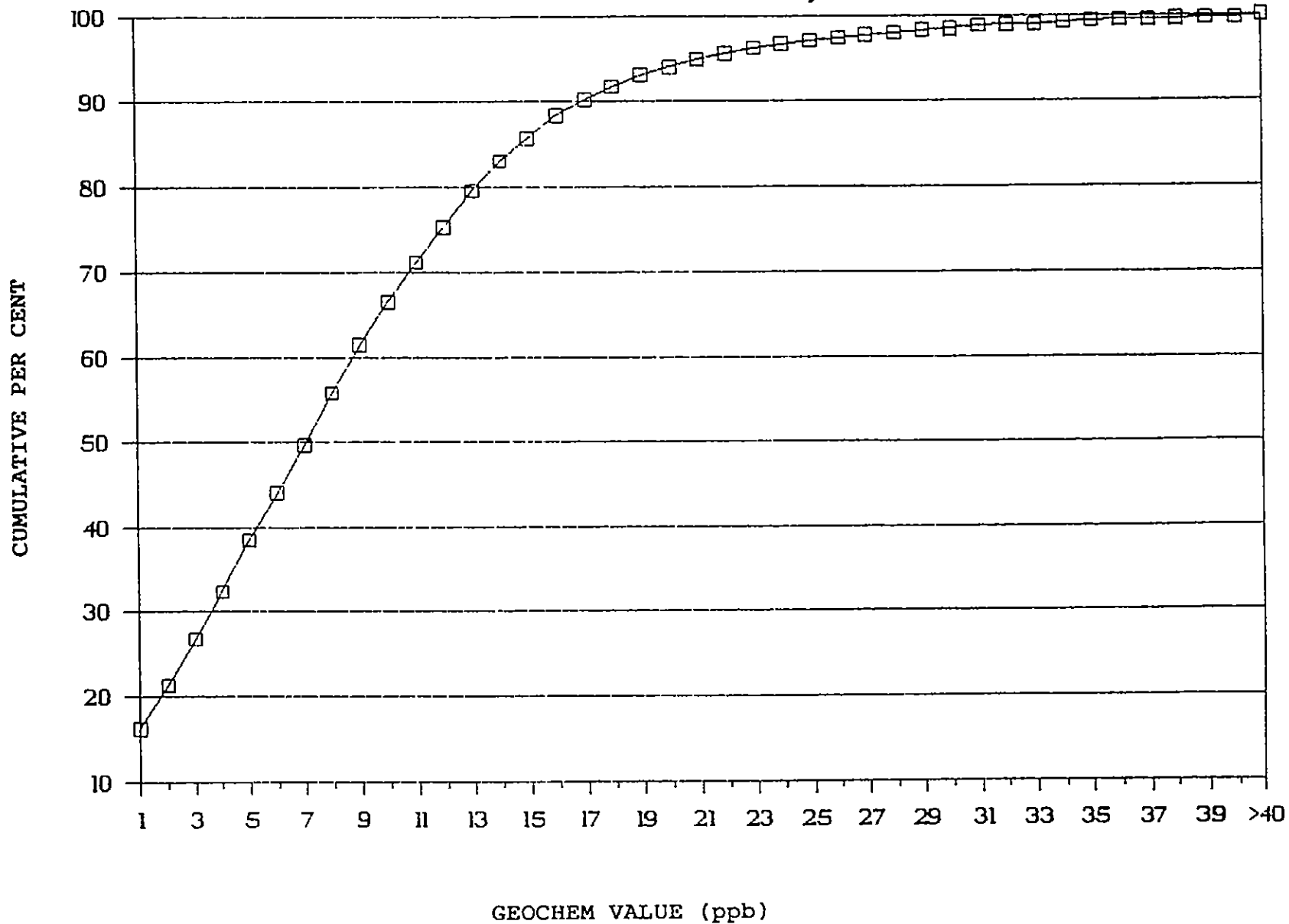
Quesnel Project Soil Geochem

Silver Distribution (4234 analyses)



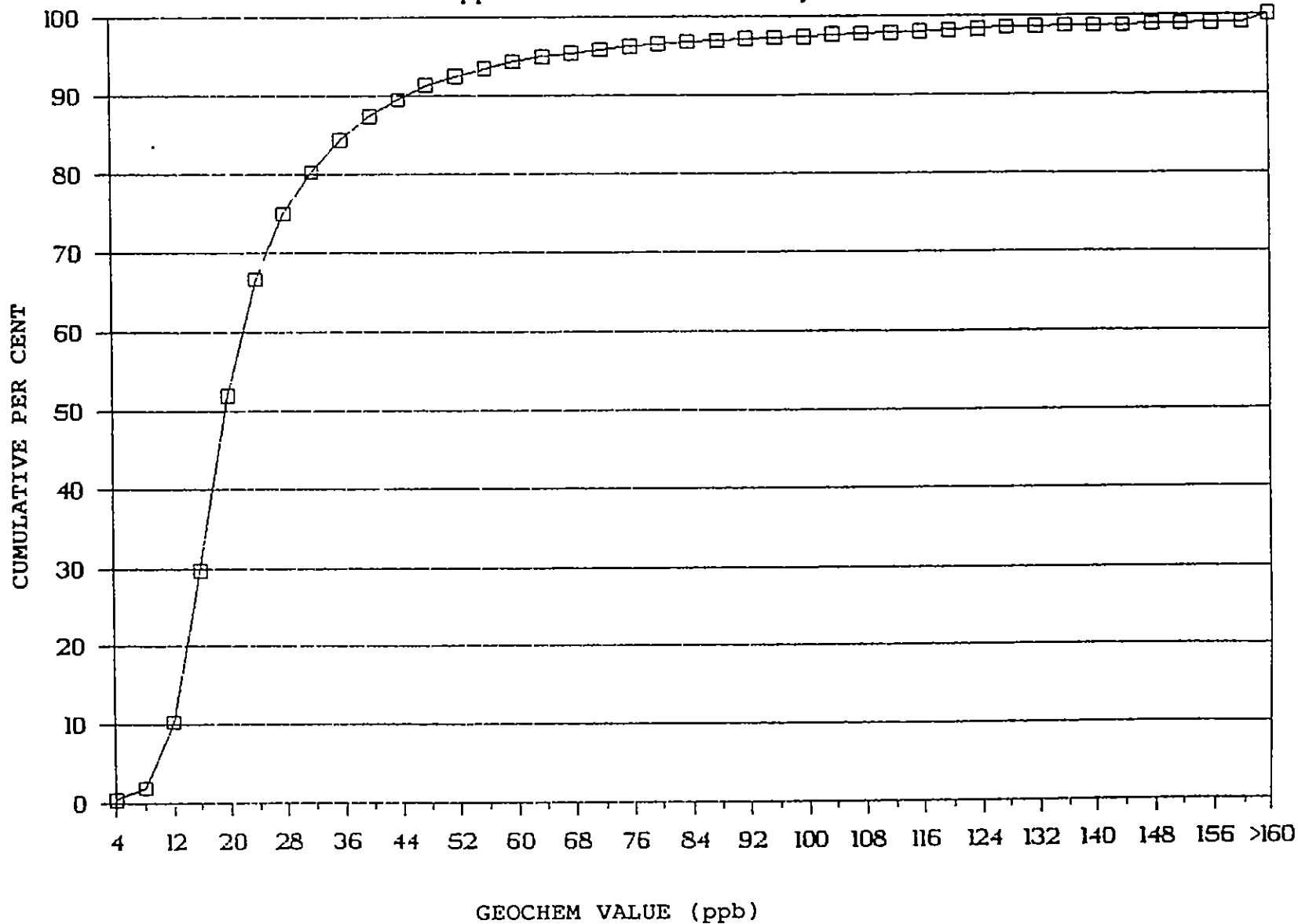
Quesnel Project Soil Geochem

Arsenic Distribution (4234 analyses)



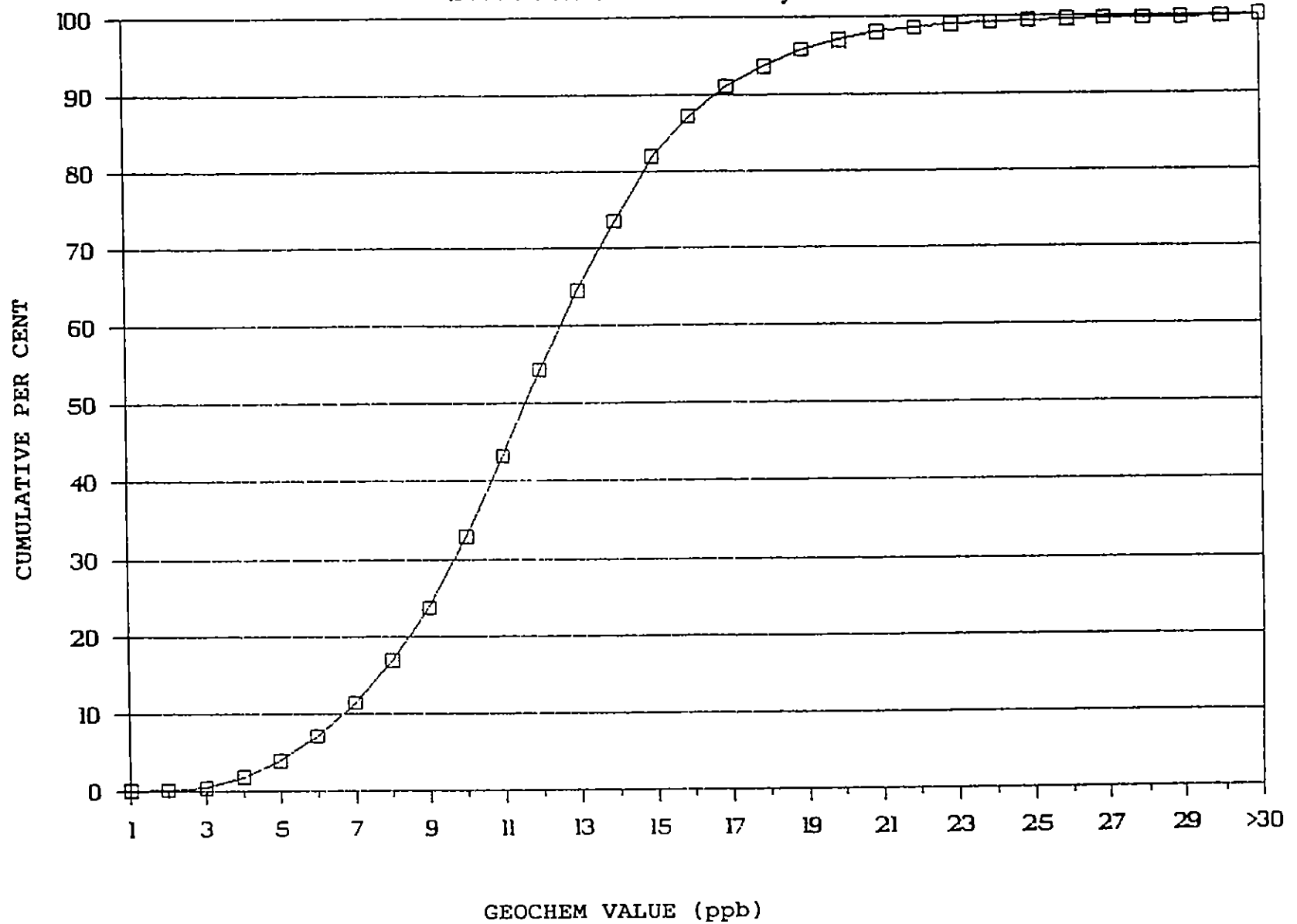
Quesnel Project Soil Geochem

Copper Distribution (4234 analyses)



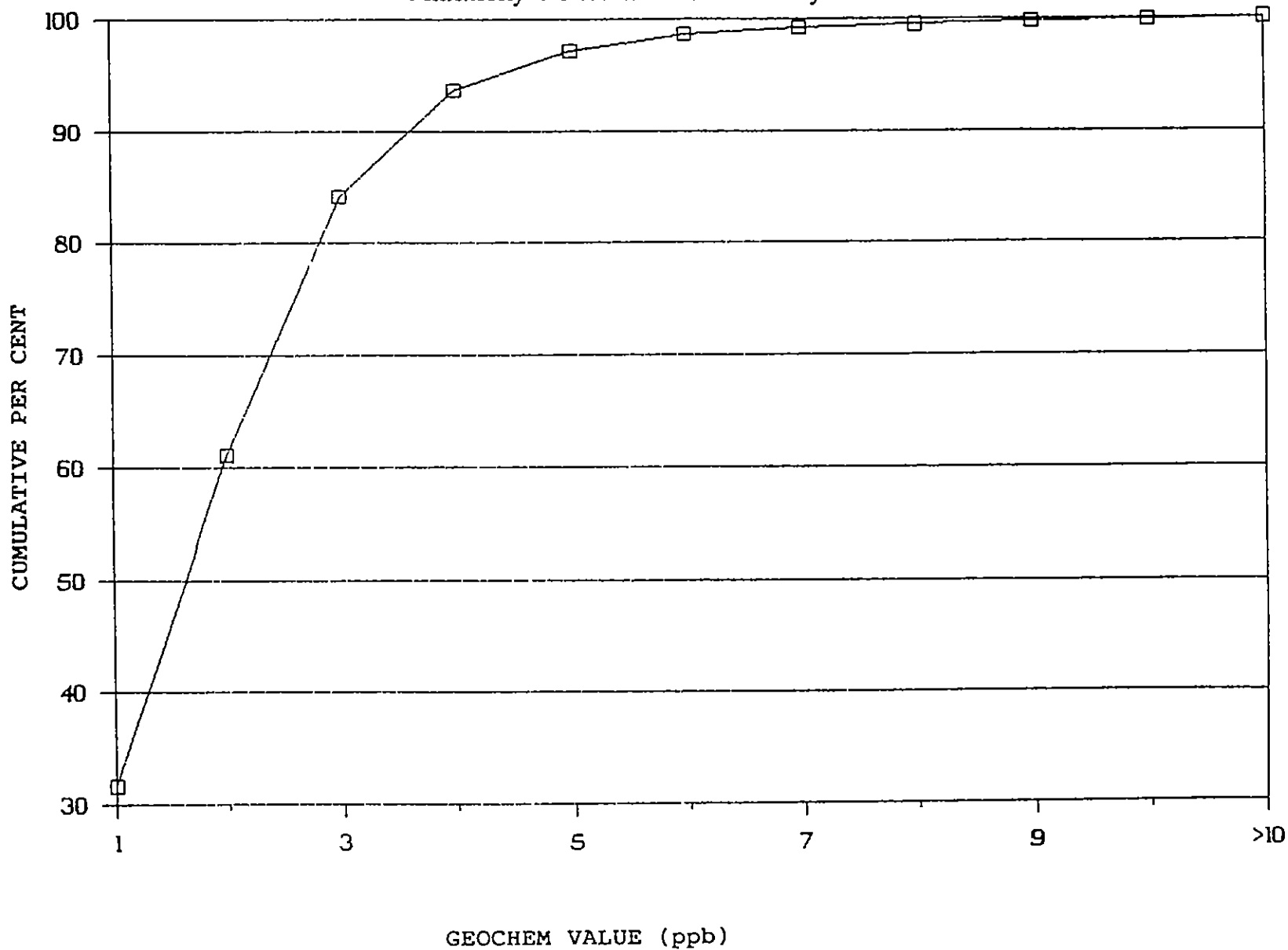
Quesnel Project Soil Geochem

Lead Distribution (4234 analyses)



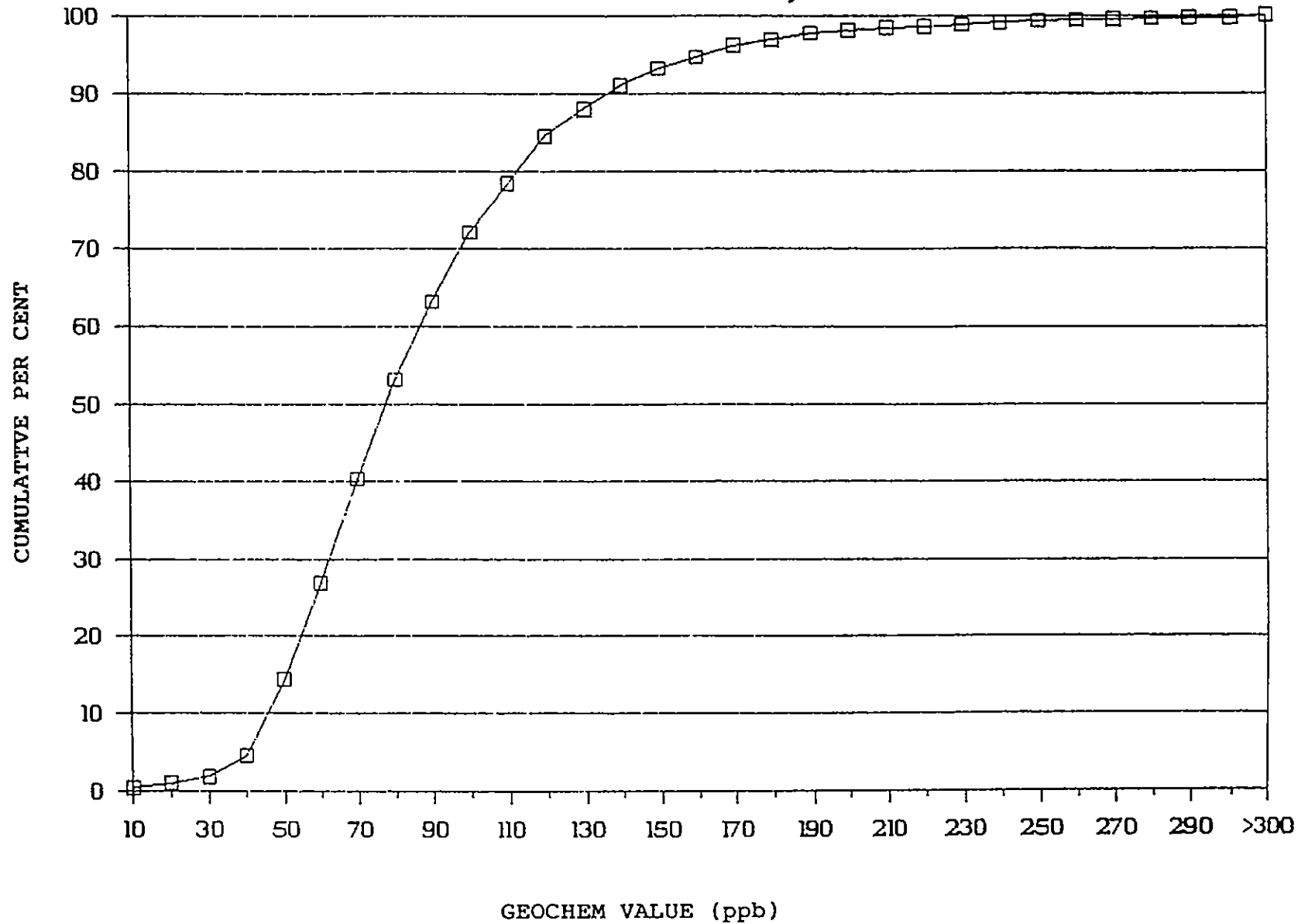
Quesnel Project Soil Geochem

Antimony Distribution (4234 analyses)



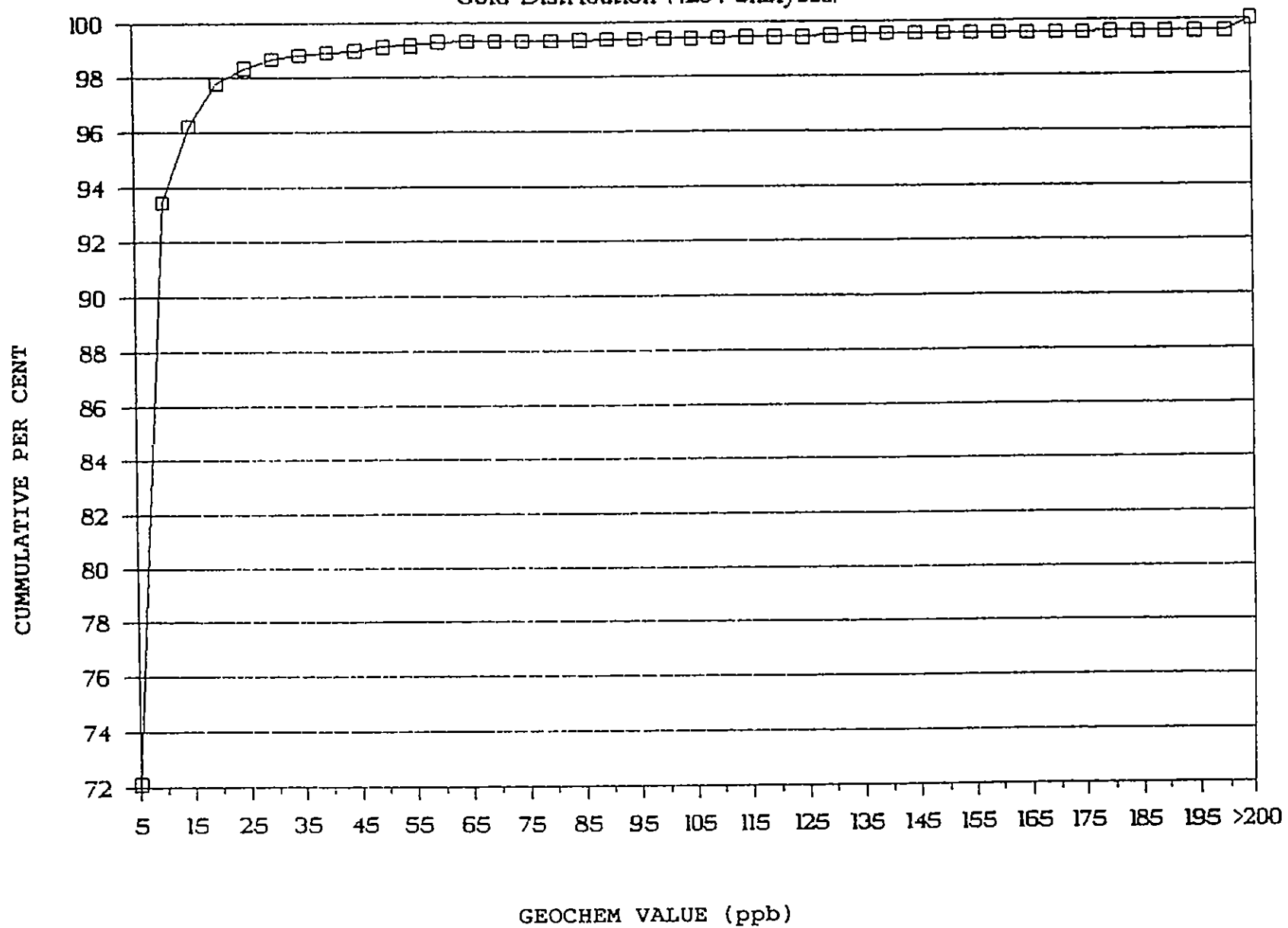
Quesnel Project Soil Geochem

Zinc Distribution (4234 analyses)



Quesnel Project Soil Geochem

Gold Distribution (4234 analyses)



APPENDIX V

Circle Resources Ltd.

Statement of Costs

Gravelle Claims
Cariboo Mining Division

Gridding (18.5 km @ \$1.00)		\$ 1,850
Soil Sample Collection (340 @ \$5.50)		1,870
Labour		
Geologist (3 days @ \$225)	675	
Field Assistant (3 days @ \$125)	375	
Prospector (3 days @ \$225)	<u>225</u>	
		1,725
Accommodation (9 days @ \$50)		450
Geochemical Analyses		
Soils (340 @ \$10)	3,400	
Heavy Minerals (3 @ \$36)	108	
Rocks (4 @ \$15)	<u>60</u>	
		3,568
Field Supplies		89
Truck Rental (3 days @ \$100)		300
Drafting		189
Helicopter Charter (2.3 Hrs & fuel)		1,252
Transportation (excluding truck rental)		252
Report Preparation (3 days \$ 350)		<u>1,050</u>
Total Costs		\$12,595

APPENDIX VI

Major Suppliers of Goods and Services for Quesnel Project

<u>Supplier</u>	<u>Service</u>
Aurum Geological Consultants 604 - 675 West Hastings Street Vancouver, B.C. V6B 1N2 (604) 683-9656	Geologist Field Assistant
C.J.L. Enterprises Ltd. Box 666 Smithers, B.C. V0J 2N0 (604) 847-3612	Prospector
Bill Chase and Associates Ltd. 1585 - 130th Street White Rock, B.C. V4A 3Z6 (604) 536-2936	Soil Crew
Pacific Northwest Geotech Ltd. 2246 Sifton Avenue Kamloops, B.C. (604) 374-3237 (Kamloops) (604) 689-3122 (Vancouver)	Proton Mag Operator
Valhalla Motal Box 4625 Quesnel, B.C. V2J 3J8 (604) 747-1111	Board
Campbell & Associates Ltd. #8 - 84 Lonsdale Avenue North Vancouver, B.C. V7M 2E6 (604) 985-4588	Petrology Engineering Reports
Rotortech Helicopters Ltd. 4189 - 104th Street Delta, B.C. V4K 3N3 (604) 992-3242 (Quesnel) (604) 591-7174 (Vancouver)	Helicopter (Quesnel)
Northern Mountain Helicopters P.O. Box 368 Prince George, B.C. V2L 4S2 (604) 992-3610 (Quesnel) (604) 398-6322 (Williams Lake)	Helicopter (Quesnel)
Min-En Laboratories 705 West 15th Street North Vancouver, B.C. V7M 1T2 (604) 980-5814	Geochemical Analyses, Supplies

APPENDIX VII

STATEMENT OF QUALIFICATIONS

I, Bernard H. Kahlert, of the City of West Vancouver, in the Province of British Columbia do hereby certify that:

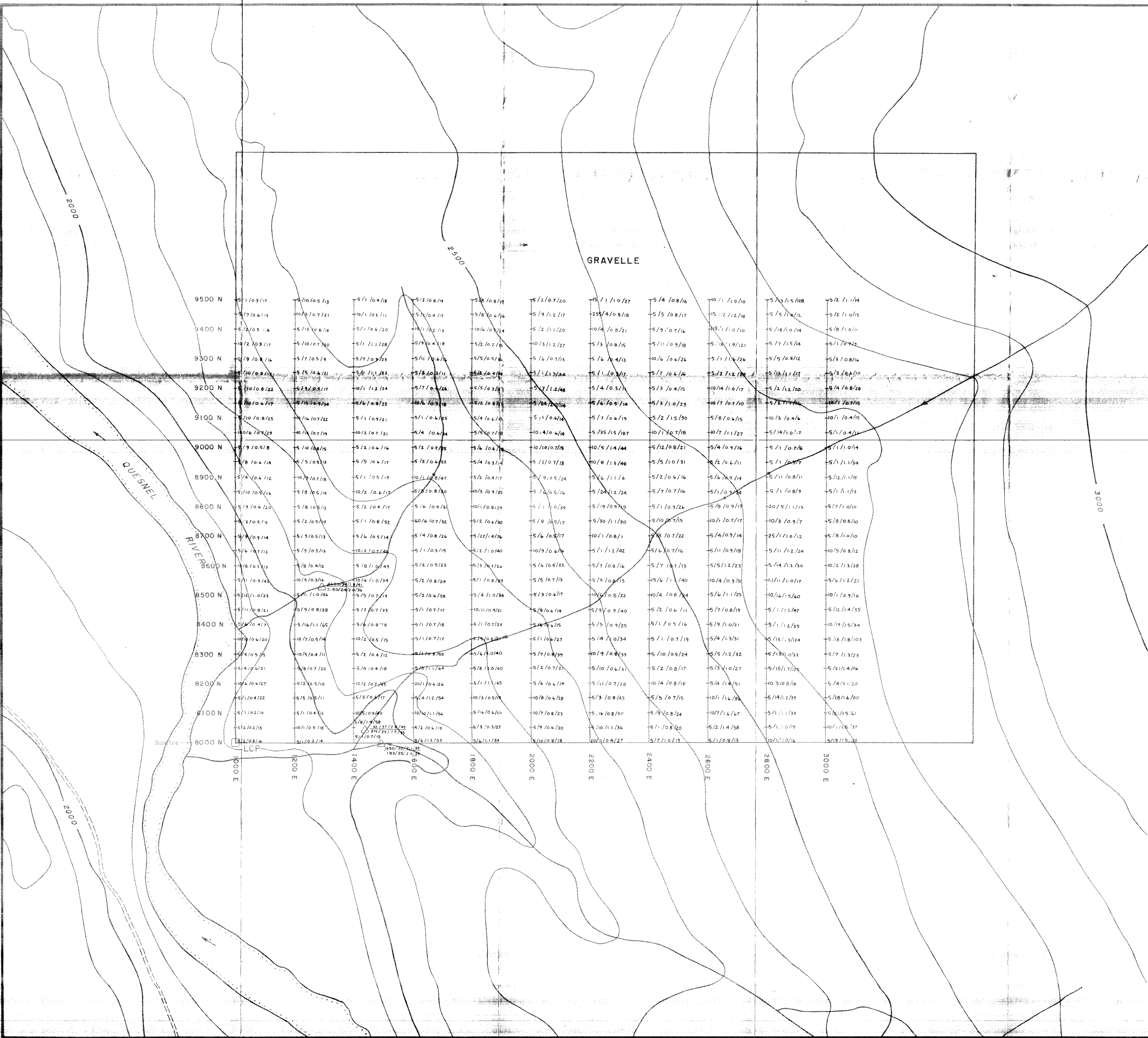
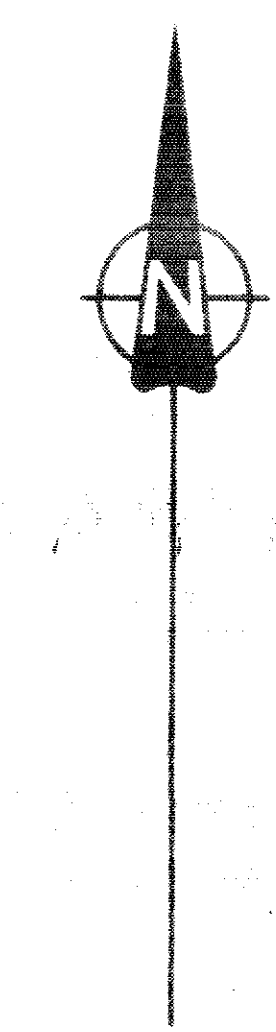
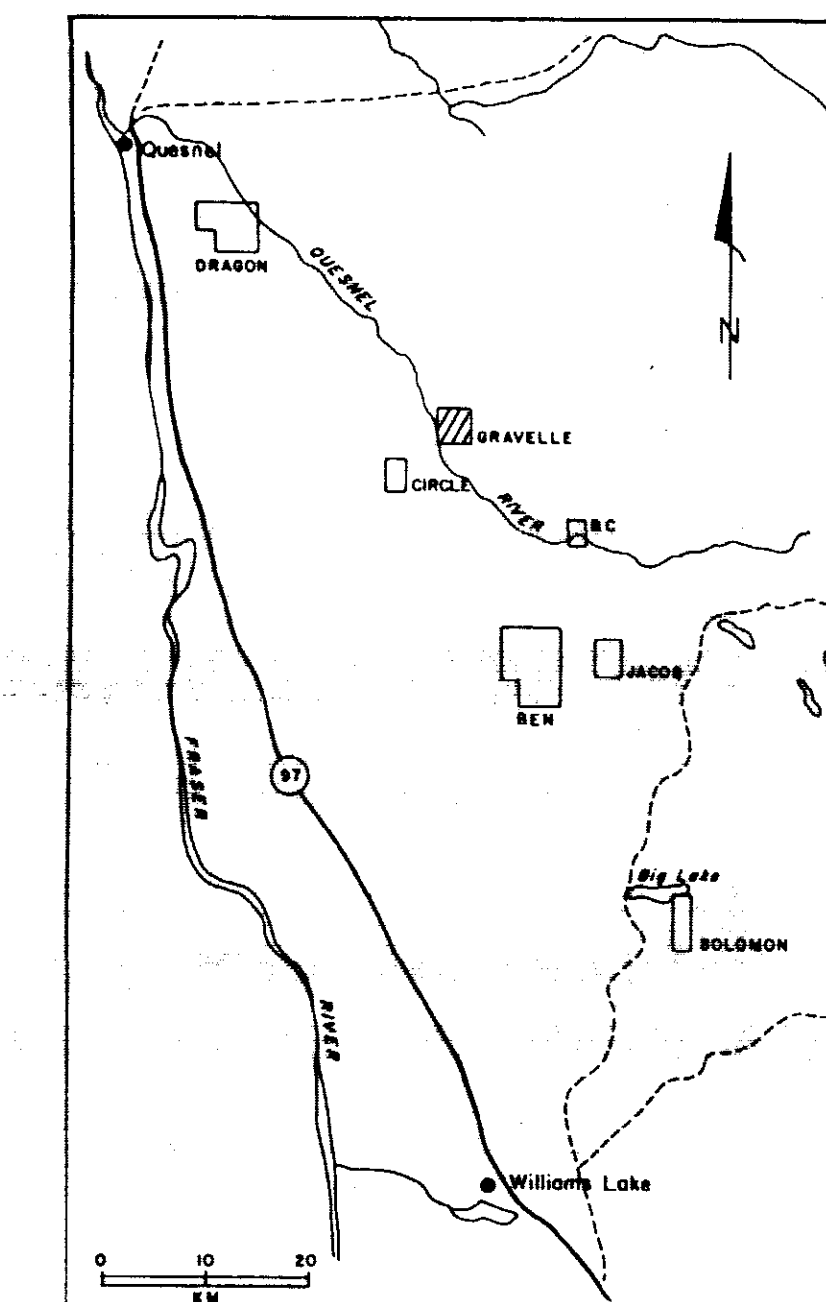
1. I am a Consulting Geologist and a principal in B.H. Kahlert and Associates Ltd. with offices at 1195 Sutton Place, West Vancouver, British Columbia;
2. I am a graduate of the University of British Columbia, 1966, with a Degree of B.Sc. in Geology;
3. I was registered with the Association of Professional Engineers of British Columbia in 1971;
4. I have practiced my profession as an exploration geologist continuously for over 22 years in Canada, the United States, Australia and China;
5. I have been employed by major mining, oil and consulting companies;
6. The information in this report was obtained from personal supervision of field operations, review of all results and compiling data for future planned work programs.

DATED at Vancouver, British Columbia, this 31st day of May, 1988.



A handwritten signature in black ink, appearing to read "B. H. Kahlert".

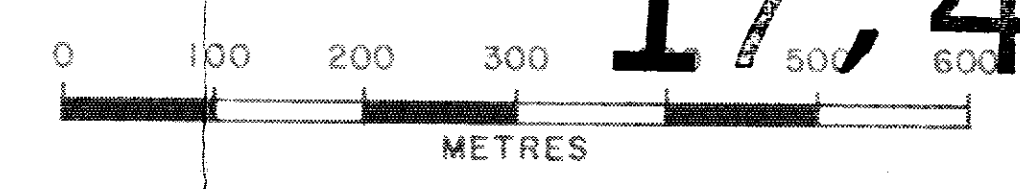
B. H. Kahlert, P.Eng.



- LEGEND**
- Legal corner post and claim boundary
 - Road
 - Four wheel drive track
 - Elevation contour in feet above sea level
 - Lake
 - Stream
 - Swamp or bog
 - Soil sample sites, Au ppb/As ppm/Ag ppm/Cu ppm
 - Silt sample sites, Au ppb/As ppm/Ag ppm/Cu ppm
 - Rock sample site
 - Heavy mineral sample site Au/Ag/Cu (40 mesh) Au/As/Ag/Cu (80 mesh)
 - Recte soil sample site

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,484



B. H. KAHLERT & ASSOC. LTD.	
CIRCLE RESOURCES LTD.	
GRAVELLE PROPERTY	
GEOCHEMISTRY (Gold, Arsenic, Silver, Copper)	
NTS: 938/16	
DATE: NOV., 1987	JOB NO.: 8724
APPROVED BY: BHK	FIG. NO.: I-1
QUESNEL PROJECT	

BEMA DRAFTING