

3452

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3452 MAP

GEOLOGICAL AND GEOCHEMICAL SURVEY
ASSESSMENT WORK REPORT

ON THE

ROY 1-6 PLUS 1 FR.
AND ROY 7-14 CLAIM GROUPS

PIMAINUS LAKE - HIGHLAND VALLEY AREAS
KAMLOOPS MINING DIVISION
BRITISH COLUMBIA

50 - 25 N. Lat. 121 - 00 W. Long.

92 I / 6 E, 7 W

FOR

ALAKON METALS LTD (N.P.L.)
202-569 HOWE STREET
VANCOUVER, BRITISH COLUMBIA

BY

STRATO GEOLOGICAL LTD
37-615 WEST HASTINGS STREET
VANCOUVER, BRITISH COLUMBIA

DECEMBER 20, 1971

Uno Leis, B.Sc.
Donald W. Tully, P.Eng.

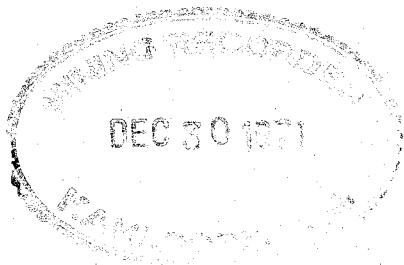


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MAPS

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4 B.C. D.M. & P.R. PRELIMINARY MAP NO. 7 (sheet 1 - 92 I/6h).....	In Pocket
5 B.C. D.M. & P.R. PRELIMINARY MAP NO. 7 (sheet 2 - 92 I/7e).....	" "
GEOLOGICAL & GEOCHEMICAL COMPOSITE PLAN	
6 - HIGHLAND VALLEY GROUP scale 1" = 200'..	" " 1-6, 18
7 - PIMAINUS LAKE GROUP scale 1" = 200'....	" " 7-14

SUMMARY AND CONCLUSIONS

Geological and geochemical surveys on the two Roy claim groups in the Highland Valley and Pimainus Lake areas showed the presence of acid intrusive phases of the Guichon Batholith as well as moderately anomalous geochemical results for copper. Local molybdenum anomalies may be present on the Pimainus Lake group.

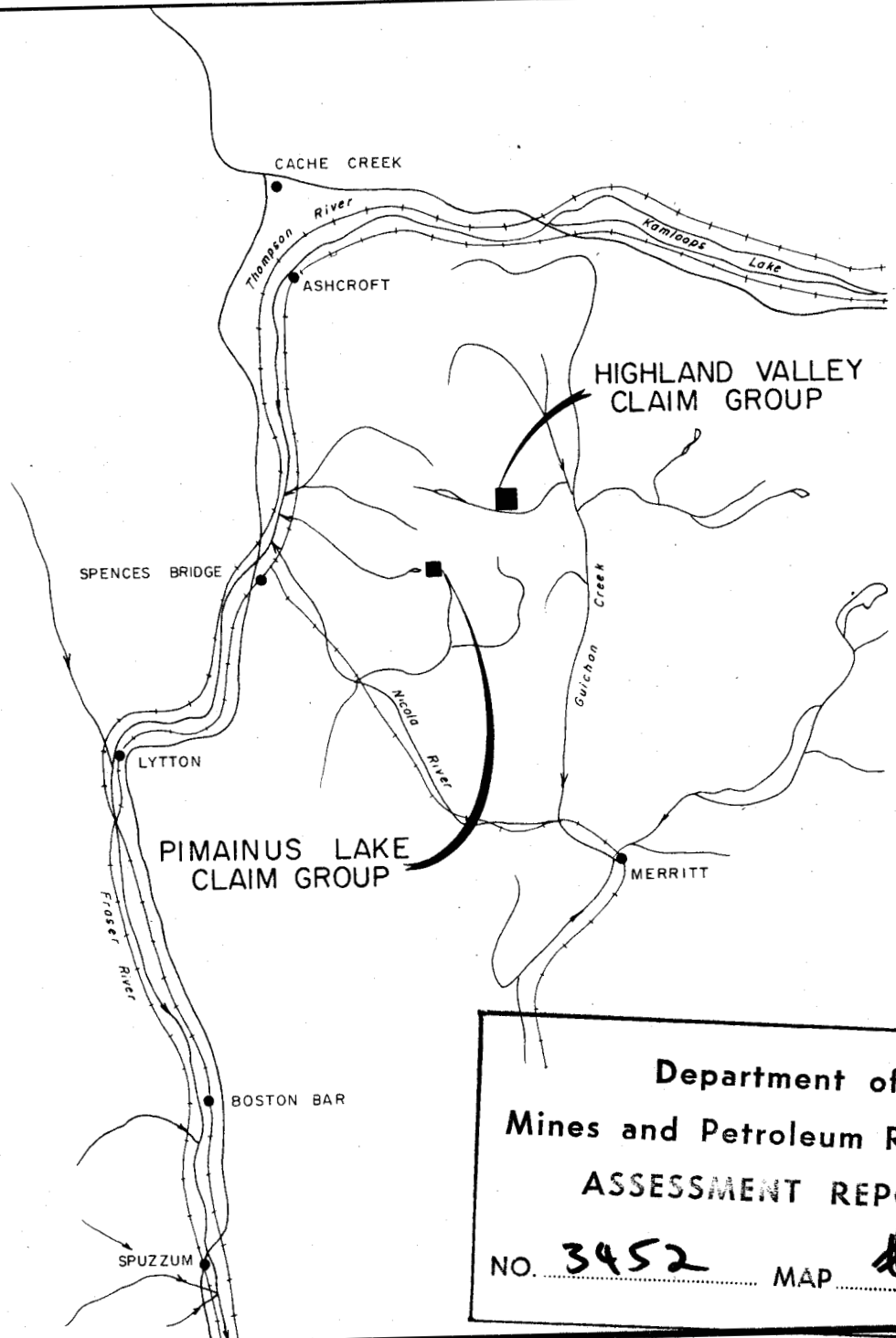
The location of these claim groups within the same favourable geological horizons and the proximity to known orebodies on the adjoining Bethlehem and Lornex properties recommends the conclusion that additional geochemical soil sampling, ground magnetometer surveys, and induced polarization geophysical work is warranted.

INTRODUCTION

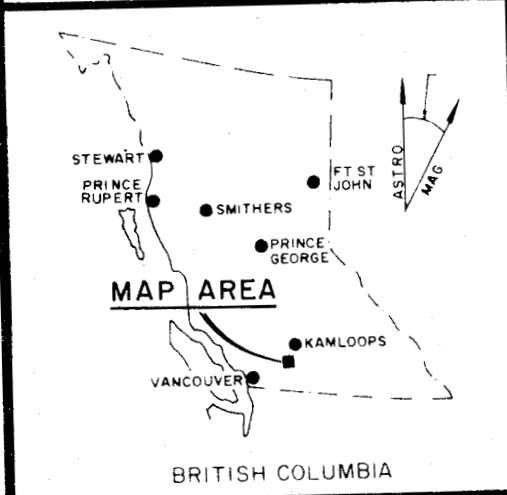
Alakon Metals Ltd (N.P.L.) requested Strato Geological Ltd to perform a geological mapping program and geochemical soil sampling on the Roy #1-6 plus 1 Fraction claim group and Roy #7-14 claim group.

The field work was performed during the period October 20-26, 1971 inclusive by the following persons:

Uno Leis - 37-615 West Hastings Street, Vancouver 1, B.C.
James Kay - 37-615 West Hastings Street, Vancouver 1, B.C.
M. Sullivan - 37-615 West Hastings Street, Vancouver 1, B.C.
D.W. Tully - 102-2222 Bellevue Avenue, West Vancouver, B.C.



Department of
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ASSESSMENT REPORT
 NO. 3452 MAP # 1



ALAKON METALS LTD. (NPL)
 LOCATION MAP
 OF
 ROY CLAIMS
 HIGHLAND VALLEY AREA, KAMLOOPS MINING DIVISION

25 0 25 50
 SCALE IN MILES

DECEMBER 12, 1971

PROPERTIES

Two claim groups known as the Roy claims are recorded as follows:

Highland Valley Group

<u>CLAIM</u>	<u>RECORD #</u>
Roy #7	93739R
" #8	93740R
" #9	93741R
" #10	93742R
" #11	93743R
" #12	93744R
" #13	93745R
" #14	93746R

Pimainus Lake Group

<u>CLAIM</u>	<u>RECORD #</u>
Roy #1	93732R
" #1 Fraction	93733R
" #2	93734R
" #3	93735R
" #4	93736R
" #5	93737R
" #6	93738R

LOCATION, ACCESS, TOPOGRAPHY

Bulldozer trails traverse across both claim groups. Four-wheel drive truck roads occur on the Highland Valley claim group (Roy #7-14).

Topographic contours between the 4000 and 4350 foot elevation mark a general south slope on the Highland Valley group immediately north of Indian Reservation #15. Elevation readings were taken using an aneroid barometer.

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NO. 3452 MAP #2

The Pimainus Lake claim group occupies a rolling topography between elevations 5100 and 5400 feet above sea-level.

PREVIOUS DEVELOPMENT

Evidence of former claim staking and line-cutting was noted on both claim groups.

The B.C. Department of Highways caused a test hole to be drilled to a depth of 350 feet on Roy claim #7 in the summer of 1971 on the Highland Valley claim group.

Previous bulldozer trenching was noted on Roy claims #4 and #6 east of Pimainus Lake.

No evidence was found of diamond drilling on either claim group. It is probable that the area occupied by these claim groups has not received intensive exploration.

REFERENCES

1. B.C. Dept. of Mines & Petroleum Resources Bulletin No. 56
2. B.C. Dept. of Mines & Petroleum Resources Annual Report 1960
3. Geological Survey of Canada Memoir Highland Valley Project Preliminary Map No. 7 (sheets 1 and 2)
4. Geological Survey of Canada Paper 63-17
5. Geological Survey of Canada Memoir 249

This map is prepared to serve as a guide only.
Positions of unsurveyed claims and placer leases
are plotted from locators' sketches
and are not guaranteed.

Letters C.G. indicate claim is Crown-Granted.
Symbol "C" indicates claim has forfeited.
B. C. DEPARTMENT OF MINES AND
PETROLEUM RESOURCES

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 3452 MAP

#3

GEOLOGICAL SURVEY

Highland Valley Claims

Boulders of Bethlehem phase granodiorite and associated porphyry types as well as Guichon variety granodiorite were mapped during the course of the survey in an intensive search for bedrock.

No bedrock was located along north-south control lines at 400-foot intervals from a base-line established on the location line between Roy claims #7-8, 9-10, 11-12 and 13-14 inclusive.

The boulder trains trend in a northwest-southeast direction. They vary in size from 6 inches to several feet in diameter.

Bethlehem phase granodiorite type boulders sometimes have a porphyritic texture.

Guichon type granodiorite boulders megascopically contain plagioclase (50-60%), orthoclase (5-10%), quartz (10-15%) biotite and hornblende (20-30%) and sometimes have a foliated appearance.

The results are plotted on the accompanying plan on scale 1" = 200'.

Pimainus Lake Claims

Rock outcrops are relatively abundant and were mapped along north-south control lines 400-feet apart, from a base-line on the location line between Roy claims #1-2, 3-4 and 5-6.

Three phases of the Guichon Creek batholithic intrusive were noted, namely Bethsaida, Skeena type and Guichon variety quartz diorite.

The Bethsaida phase is the course-grained quartz monzonite variety. Hornblende and biotite are minor and generally fresh.

Skeena type rocks are the more altered phase of the Bethsaida. Feldspars are sericitized and the mafic minerals have been altered to brown biotite masses.

Guichon quartz diorite was noted on Roy claims #3, 5 and 6.

Although an east-west shear zone or fault may occur in the valley occupied by Pimainus Lake no direct evidence was found on the claims to support the theory. The dominant direction of shear fractures is $N20^{\circ}W - N40^{\circ}W$ with minor east-west fracturing.

Pink potash feldspar alteration was noted on Roy claim #3 in small patchy areas in the Bethsaida phase.

The results are plotted on the accompanying plan on scale 1" = 200'.

GEOCHEMICAL SURVEY

A total of 452 geochemical soil samples were taken and analyzed by Core Laboratories Ltd, Vancouver, B.C. using the atomic absorption analytical method after preparation and digestion in hot perchloric acid.

Sampling was done at 200-foot intervals along north-south control lines 400-feet apart concomitant with the geological survey.

Soil samples were taken from the "B" soil horizon using an ordinary shovel for excavating the sample location.

Highland Valley Group

261 geochemical soil samples were taken and the results showed:

	<u>Copper</u>	<u>Molybdenum</u>
15% of the samples showed	0-20 ppm	less than 1 ppm
67% " " " "	21-40 "	" " 1 "
12% " " " "	41-60 "	" " 1 "
4% " " " "	61-80 "	" " 1 "
1% " " " "	81 plus ppm	" " 1 "

Background is considered to be 40 parts per million copper or 83% of the sample results and negligible molybdenum.

Overburden is mostly gravel and sand of unknown but probably considerable depth.

A weak copper anomaly extends generally east-west across Roy claims #8, 9, 10, 11 and 12.

The results are plotted on the accompanying map on scale 1" = 200'.

Pimainus Lake Group

191 geochemical soil samples were taken and the results showed:

	<u>Copper</u>	<u>Molybdenum</u>
21% of the samples showed	0-20 ppm	less than 1 ppm
47% " " " "	21-40 "	" " 1 "
14% " " " "	41-60 "	" " 1 "
6% " " " "	61-80 "	" " 1 "
2% " " " "	81-100 "	" " 1 "
10% " " " "	101 plus ppm	" " 1 "

Background is considered to be 40 parts per million copper or approximately 82% of the sample results. Isolated values up to 17 parts per million molybdenum could be locally significant.

Overburden is sand, gravel and loam with considerable overlying humus in the swampy areas.

Five copper anomalies of weak to moderate intensity are indicated. One small anomalous zone occurs on Roy claim #6, another on Roy claim #5, and one each on Roy claims #2 and #3. A stronger anomalous copper zone was found on Roy claim #4.

Rock outcrops were not found in the general area of the copper anomaly on Roy claim #4.

Soil sampling should be done in greater detail on each of the anomalous copper zones.

MINERALIZATION - ASSAYS

No economic mineralization was noted during the course of the survey.

RECOMMENDATIONS

1. Do detailed geochemical soil sampling on a survey grid of 100-foot interval over the copper anomalies on Roy claims #4 and #6.
2. Do geochemical soil profile sampling on Roy claims #4 and 9, 10, 11, and 13 to further check the validity of the indicated geochemical anomalies.
3. If further geochemical soil sampling results substantiate the indicated anomalous zones, bulldozer trenching to test for mineralized bedrock is probably warranted if the overburden depth does not exceed more than 10-15 feet of depth.
4. If trenching does not achieve the desired results it may be necessary to further test the anomalous zones with an induced polarization survey.
5. a) A magnetometer survey is recommended.
b) More ground should be acquired.

Respectfully submitted,

Uno Leis

Uno Leis, B.Sc.

CERTIFICATE

I, Uno Leis, do hereby certify:

1. I am Operations Manager of Strato Geological Ltd, with offices at 37 - 615 West Hastings Street, Vancouver 2, British Columbia.
2. I am a graduate of Carlton University, 1969, with the Degree of Bachelor of Science.
3. I am not a registered Engineer in the Province of British Columbia or of any province.
4. I have been engaged in geological exploration for two and one-half years throughout British Columbia, parts of Yukon Territory, and parts of Saskatchewan.
5. I have no direct, indirect, or contingent interest in the securities of Alakon Metals Ltd (N.P.L.) or the properties thereof nor do I intend to receive any interest.
6. This report is based on personal examination and field work during the period October 20-26, 1971 inclusive and study of the data obtained therefrom as a result of the survey during November and December, 1971.

DATED at Vancouver, British Columbia, this 20th day of December, 1971.

Uno Leis, B.Sc.

Signed: Uno Leis

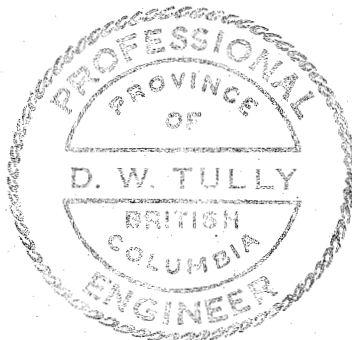
CERTIFICATE

I, Donald William Tully, do hereby certify, that:

1. I am a Consulting Geologist and Professional Engineer with offices at Suite 102, 2222 Bellevue Avenue, West Vancouver, British Columbia.
2. I am a graduate of McGill University, 1943, with a Bachelor of Science Degree.
3. I am a registered Professional Engineer in the Provinces of Ontario and British Columbia.
4. I have practiced my profession for twenty-six years.
5. I have a direct, indirect and contingent interest in the claims held by Alakon Metals Ltd (N.P.L.) and the securities of Alakon Metals Ltd (N.P.L.).
6. This report dated December 20, 1971, is based on geo-chemical and geological work personally performed on the ground during the period October 20-26, 1971. The work was done in the field for Strato Geological Ltd. I have read this report and personally endorse the facts and concepts contained in the text.

DATED at West Vancouver, British Columbia, this 20th day of December, 1971.

Donald W. Tully
Donald W. Tully, P.Eng.
Consulting Geologist



ASSAYERS
CHEMISTS
GEOCHEMISTS

Alakon Pimarus Lane Roy 1 - 6 plus 12



CORE LABORATORIES - CANADA LTD.

325 Howe Street Vancouver 1, B.C. Phone 688-3504

SAMPLE(S) FROM
STRATO GEOLOGICAL

Certificate of Analysis

REPORT NO.
V 10749

SAMPLE(S) OF SOILS

Sample No.	Cu ppm	Mo ppm
PL 0	22	<1 ✓
PL 0 2S	12	<1 ✓
6S	151 ✓	17 ✓
8S	168 ✓	2 ✓
10S	43	1 ✓
14S	25	<1 ✓
16S	19	<1 ✓
PL 0 2N	3	<1 ✓
4N	296 ✓	2 ✓
6N	13	1 ✓
8N	28	<1 ✓
10N	19	<1 ✓
12N	20	<1 ✓
PL 4 0	69	<1 ✓
2S	25	<1 ✓
4S	16	<1 ✓
8S	21	1 ✓
10S	37	1 ✓
12S	N.S.	N.S. ✓
PL 4 10N	20	<1 ✓
12N	53	<1 ✓

Hot Perchloric Acid Extraction

Determined by A.A.

DATE Nov 16, 1971.

SIGNED *[Signature]*

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More samples to come



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V 10744

SAMPLE(S) OF SOILS

Sample No.	Cu ppm	Mo ppm
PL0 43	18	<1
6	32	<1
12	41	<1
14	45	1
16	390	13
PL4 2N	30	1
4	58	<1
6	23	<1
8	118	<1
PL8 00	29	<1
23	14	<1
4	42	<1
6	39	<1
8	50	<1
10	34	<1
12	43	<1
14	78	<1
16	43	<1
PL8 2N	49	<1
4	13	<1
8	18	<1
10	26	<1
12	24	<1
PL12 003	18	<1
2	57	<1
4	26	<1
6	72	<1
8	20	<1
10	15	<1
12	18	<1
14	25	<1
16	22	<1
PL12 2N	25	<1
4	22	<1
6	61	<1
8	22	<1
10	29	<1
12	12	<1
14	8	<1
16	37	<1

DATE NOV 5, 1971

SIGNED *R. L. Stoddard*

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SAMPLE(S) OF SOILS

Sample No.	Cu ppm	Mo ppm
PL 12 18N	87	<1
20	129	<1
PL 16 00	27	1
2S	22	1
4	46	<1
6	32	<1
8	26	<1
10	24	<1
12	20	<1
14	21	<1
16	21	<1
PL16 2N	22	<1
4	173	<1
6	N.S.	N.S.
8	58	<1
10	N.S.	N.S.
12	47	1
14	41	<1
16	75	<1
18	800	1
20	50	<1
PL20 00	280	1
2S	29	<1
4	26	<1
6	24	<1
8	84	<1
10	43	<1
12	18	<1
14	169	1
16	160	<1
PL 20 2N	58	<1
4	28	1
6	213	<1
8	157	<1
10	40	<1
12	36	<1
14	31	<1
16	60	<1
18	143	1
20	70	<1

DATE Nov. 5, 1971.

SIGNED *R. J. [Signature]*

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SAMPLE(S) OF SOILS

Sample No.	Cu ppm	Mo ppm
PI24 2N	29	<1
4	25	6
6	19	1
8	370	4
10	42	<1
12	39	<1
14	18	<1
16	21	<1
18	38	<1
20	35	<1
22	18	1
PL 24 2S	N.S.	N.S.
4	22	<1
6	68	<1
8	17	<1
10	49	<1
12	84	<1
14	N.S.	N.S.
16	N.S.	N.S.
PL28 0	28	<1
2S	25	<1
4	29	<1
6	64	<1
8	68	<1
10	169	<1
12	40	<1
14	28	<1
16	22	<1
PL28 2N	220	<1
2	36	<1
4	99	<1
6	28	<1
8	33	<1
10	93	<1
12	31	<1
14	35	<1
16	19	<1
18	19	<1
20	28	<1
22	22	<1

DATE Nov. 5, 1971.

SIGNED *R. G. [Signature]*

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SAMPLE(S) OF SOILS

Sample No.	Cu ppm	Mo ppm
PL 320	20	<1
23	35	<1
4	N.S.	N.S.
6	29	<1
8	53	<1
10	44	<1
12	29	<1
14	46	<1
16	19	<1
PL32	21	<1
4	12	<1
6	27	<1
8	22	<1
10	31	<1
12	25	<1
14	21	<1
16	27	<1
18	22	<1
20	16	<1
22	18	<1
PL36	0	51
23	23	<1
4	20	<1
6	38	<1
8	N.S.	N.S.
10	180	1
12	35	<1
14	300	<1
PL36	20	<1
4	29	<1
6	31	<1
8	33	<1
10	29	<1
12	24	<1
14	15	1
16	24	<1
18	30	<1
20	20	<1
22	28	<1
24	22	<1
PL 40	0	1
0	22	1

DATE Nov. 5, 1971.

SIGNED A.P. Stoddard

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SAMPLE(S) OF
SOILS

Sample No.	Cu ppm	Mo ppm
PL40 23	17	<1
4	N.S.	N.S.
6	9	<1
8	14	<1
10	26	<1
12	186	<1
14	75	<1
PL 40 2N	26	<1
4	23	<1
6	6	<1
8	22	<1
10	80	12
12	21	<1
14	120	<1
16	15	<1
18	13	<1
20	15	<1
22	39	<1
24	21	<1

PERCHLORIC ACID EXTRACTION

DETERMINED BY A.A.

DATE Nov. 5, 1971.

SIGNED *R. L. Woodland*

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Minerals - 1971 Roy 7-14



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SAMPLE(S) OF
SOILS

Sample No.	Cu ppm	Mo ppm
0-8S	17	<1
10	23	<1
12	31	<1
14	22	<1
16	17	<1
0-0	26	<1
2N	28	<1
4	32	<1
6	30	<1
8	25	<1
10	53	<1
12	27	<1
14	45	<1
16	21	<1
4-0S	N.S.	N.S.
2	35	<1
4	44	<1
6	109	<1
8	45	<1
10	10	<1
12	N.S.	N.S.
14	25	<1
16	29	<1
4-0N	N.S.	N.S.
2	N.S.	N.S.
4	55	<1
6	35	<1
8	15	<1
10	51	<1
12	31	<1
14	17	<1
16	26	<1
8-0S	28	<1
2	30	<1
4	29	<1
6	30	<1
8	49	<1
10	23	<1
12	25	<1
14	14	<1

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SIGNED J. A. Holland

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SAMPLE(S) OF SOILS

Sample No.	Cu ppm	Mo ppm
8-16S	22	<1
8-2N	24	<1
4	30	<1
6	32	<1
8	19	<1
10	24	<1
12	23	<1
14	27	<1
16	27	<1
12-0	24	<1
23	19	<1
4	26	<1
6	25	<1
8	27	<1
10	80	<1
12	44	<1
14	32	<1
16	55	<1
12-2N	34	<1
4	24	<1
6	21	<1
8	23	<1
10	31	<1
12	29	<1
14	29	<1
16	28	<1
16-2S	27	<1
4	32	<1
6	34	<1
8	34	<1
10	10	<1
12	44	<1
14	64	<1
16	44	<1
18	37	<1
20	52	<1
22	34	<1
16-2N	36	<1
4	52	<1
6	29	<1

DATE Nov. 5, 1971.

SIGNED L. A. [Signature]

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SAMPLE(S) OF SOILS

Sample No.	Cu ppm	Mo ppm
16-8N	25	<1
10	31	<1
12	32	<1
14	20	<1
20-003	27	<1
2	35	<1
4	33	<1
6	28	<1
8	29	<1
10	25	<1
12	40	<1
14	35	<1
16	50	<1
20-00N	40	<1
2	23	<1
4	29	<1
6	37	<1
8	21	<1
10	127	<1
12	28	<1
14	21	<1
16	26	<1
21-00 S	46	<1
2	24	<1
4	26	<1
6	32	<1
8	25	<1
10	65	<1
12	81	<1
14	34	<1
16	33	<1
21-2N	84	<1
4	65	<1
6	22	<1
8	27	<1
10	27	<1
12	24	<1
14	18	<1
16	29	<1
28-2N	27	<1

DATE Nov. 5, 1971.

SIGNED *R. A. [Signature]*

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SAMPLE(S) OF SOILS

Sample No.	Cu ppm	Mo ppm
28-4N	21	<1
6	24	<1
8	25	<1
10	25	<1
12	18	<1
14	27	<1
16	19	<1

DATE Nov. 5, 1971.

SIGNED *R. L. Stollant*

PULP AND REJECTS DISCARDED AFTER 3 MONTHS

ASSAYERS
CHEMISTS
GEOCHEMISTS



CORE LABORATORIES - CANADA LTD.

325 Howe Street Vancouver 1, B.C. Phone 688-3504

SAMPLE(S) FROM
STRATO GEOLOGICAL

Certificate of Analysis

REPORT NO.

V 10744

SAMPLE(S) OF SOILS

Sample No.	Cu ppm	Mo ppm
BL 280	18	<1
2	17	<1
4	14	<1
6	27	<1
8	19	<1
10	37	<1
12	29	<1
14	69	<1
16	65	<1
BL30	18	<1
2	17	<1
4	11	<1
6	26	<1
8	13	<1
10	9	<1
12	8	<1
14	10	<1
16	10	<1
BL 32	15	<1
4	16	<1

DATE Nov. 5, 1971.

SIGNED *R. B. Stoddard*

PULP AND REJECTS DISCARDED AFTER 3 MONTHS

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REPORT NO.
V 10744

SAMPLE(S) OF
SOILS

Sample No.	Cu ppm	Mo ppm
BL32 6S	44	<1
8	43	<1
10	38	<1
12	69	<1
14	91	<1
16	64	<1
BL 34 ON	44	<1
2	22	<1
4	39	<1
6	16	<1
8	19	<1
10	38	<1
12	36	<1
14	29	<1
16	30	<1
BL 36 03	28	<1
2	45	<1
4	34	<1
6	37	<1
8	54	<1
10	25	<1
12	54	<1
14	64	<1
BL 36 0	46	<1
2	45	<1
4	50	<1
6	27	<1
8	28	<1
10	28	<1
12	31	<1
14	23	<1
16	38	<1
BL40 25	79	<1
4	44	<1
6	46	<1
8	34	<1
10	28	<1
12	28	<1
14	30	<1
BL40 ON	25	<1

DATE Nov. 5, 1971.

SIGNED *A. D. Hodder*

PULP AND REJECTS DISCARDED AFTER 3 MONTHS

ASSAYERS
CHEMISTS
GEOCHEMISTS



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325 Howe Street Vancouver 1, B.C. Phone 688-3504.

SAMPLE(S) FROM
STRATO GEOLOGICAL

Certificate of Analysis

REPORT NO.

V 10744

SAMPLE(S) OF SOILS

Sample No.	Cu ppm	Mo ppm
BL 40 2N	27	<1
4	31	<1
6	34	1
8	38	<1
10	28	<1
12	32	<1
14	31	<1
16	21	<1
BL 44 2S	40	<1
4	21	<1
6	36	<1
8	27	<1
10	38	<1
12	65	<1
14	37	<1
16	39	<1
BL 44 0	40	<1
2N	44	<1
4	21	<1
6	28	<1
8	22	<1
10	24	<1
12	33	<1
14	46	<1
16	34	<1
BL 48 0	N.S.	N.S.
2S	43	<1
4	29	<1
6	85	<1
8	25	<1
10	32	<1
12	27	<1
14	43	<1
BL 48 0	21	<1
2N	26	<1
4	31	<1
6	20	<1
8	38	<1
10	23	<1
12	31	<1

DATE Nov. 5, 1971.

SIGNED *A. B. Stoddard*

PULP AND REJECTS DISCARDED AFTER 3 MONTHS

ASSAYERS
CHEMISTS
GEOCHEMISTS



CORE LABORATORIES - CANADA LTD.

325 Howe Street Vancouver 1, B.C. Phone 688-3504

SAMPLE(S) FROM
STRATO GEOLOGICAL

Certificate of Analysis

REPORT NO.
V 10744

SAMPLE(S) OF SOILS

Sample No.	Cu ppm	Mo ppm
BL48 14N	35	<1
16	21	<1
BL52 2N	23	<1
4	26	<1
2A	21	<1
6	31	<1
8	23	<1
10	37	<1
12	29	<1
14	23	<1
16	22	<1
BL 52 0S	22	<1
2	15	<1
4	38	<1
6	22	<1
8	29	<1
10	21	<1
12	25	<1
14	23	<1
16	48	<1
BL56 0	30	<1
2	37	<1
4	32	<1
6	36	<1
8	25	<1
10	20	<1
12	20	<1
14	33	<1
16	35	<1
BL56 2N	28	<1
4	18	<1
6	41	<1
8	19	<1
10	20	<1
12	18	<1
14	15	<1
16	25	<1
0-2S	20	<1
4	24	<1
6	33	<1

DATE Nov. 5, 1971.

SIGNED R. D. [Signature]

PULP AND REJECTS DISCARDED AFTER 3 MONTHS

PRELIMINARY GEOLOGICAL MAP OF THE HIGHLAND VALLEY
 Geology by W.J. McMillan, 1969 and 1970; P.M. McAndless, 1970; D. Blanchflower, 1970.
 (Some data from assessment reports)

921/6h

121°07'30" 50°30'00"

121°00'00" 50°30'00"

- LEGEND**
- POST-INTRUSIVE ROCKS**
- 13 Pebble conglomerate, carbonaceous siltstone, argillite
 - 12 Kamloops Group
- INTRUSIVE ROCKS**
- 11 Post-Bethsaida porphyries
 - 10 Bethsaida phase
 - 9 Bethlehem-Bethsaida transitional contact zone
 - 8 Porphyry dyke, area with numerous porphyry dykes
 - 7 Bethlehem phase
 - Country rock cut by numerous dykes of Bethlehem phase
 - 6 Leroy granodiorite
 - Country rocks cut by numerous dykes of Leroy granodiorite
 - Highland Valley phase
 - 5 Chataway variety
 - 4 Guichon variety
 - 3 Guichon-Hybrid transitional contact zone
 - 2 Hybrid phase
- PRE-INTRUSIVE ROCKS**
- 1 Nicola volcanic rocks

(Detailed petrologic descriptions are given by Northcote, 1969, British Columbia Department of Mines and Petroleum Resources, Bulletin No. 56)

- SYMBOLS**
- Roads, paved highway, two-wheel drive, four-wheel drive
 - Trench; interpreted from air photographs
 - Cut line, visible on air photographs
 - Stream, intermittent
 - Outline of outcrop
 - Outcrop seen but not traversed, composition inferred
 - Outcrop from assessment report, composition inferred
 - Breccia zone
 - Fault, proven, inferred
- Virtually all intrusive contacts shown are gradational.



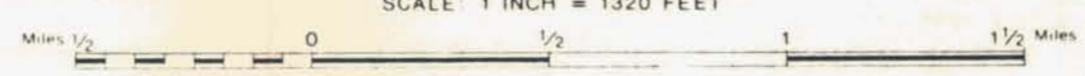
Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 3452 MAP #4

ALAKON METALS LTD. (N.P.L.)
 ROY CLAIMS
 1-6 plus 1 Fr.

BRITISH COLUMBIA DEPARTMENT OF MINES AND PETROLEUM RESOURCES PRELIMINARY MAP No. 7, SHEET 1 of 4 SHEETS

HIGHLAND VALLEY PROJECT
 KAMLOOPS DIVISION OF YALE LAND DISTRICT
 BRITISH COLUMBIA
 SCALE: 1 INCH = 1320 FEET

Air photography B.C. Gov't 1965
 Updated B.C. Gov't 1969
 Field surveys G New B.C.L.S. 1969
 Culture check 1969



CONTOUR INTERVAL 50 FEET
 Elevations in feet above Mean Sea Level
 POLYCONIC PROJECTION
 Origin 50°-121°

Copies of this map may be obtained from the
 Mineralogical Branch
 Department of Mines and Petroleum Resources
 Victoria
 \$1.00 per sheet

3452

M-4

92 1/6

PRELIMINARY GEOLOGICAL MAP OF THE HIGHLAND VALLEY
 Geology by W.J. McMillan, 1969 and 1970; P.M. McAndless, 1970; D. Blanchflower, 1970.
 (Some data from assessment reports)

92 1/7e

121°00'00"

120°52'30"

50°30'00"

- LEGEND**
- POST-INTRUSIVE ROCKS**
- 13 Pebble conglomerate, carbonaceous siltstone, argillite
 - 12 Kamloops Group
- INTRUSIVE ROCKS**
- 11 Post-Bethsaida porphyries
 - 10 Bethsaida phase
 - 9 Bethlehem-Bethsaida transitional contact zone
 - Paraphyry dyke, area with numerous porphyry dykes
 - 7 Bethlehem phase
 - Country rock cut by numerous dykes of Bethlehem phase
 - 6 Leroy granodiorite
 - Country rocks cut by numerous dykes of Leroy granodiorite
 - Highland Valley phase
 - 5 Chataway variety
 - 4 Guichon variety
 - 3 Guichon-Hybrid transitional contact zone
 - 2 Hybrid phase
- PRE-INTRUSIVE ROCKS**
- 1 Nicola volcanic rocks

(Detailed petrologic descriptions are given by Northcote, 1969, British Columbia Department of Mines and Petroleum Resources, Bulletin No. 56)

SYMBOLS

- Roads, paved highway, two-wheel drive, four-wheel drive
- Trench, interpreted from air photographs
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- Outline of outcrop
- Outcrop seen but not traversed, composition inferred
- Outcrop from assessment report, composition inferred
- Breccia zone
- Fault, proven, inferred

Virtually all intrusive contacts shown are gradational

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 #3452
 MAP NO 3452



50°27'30"

BRITISH COLUMBIA DEPARTMENT OF MINES AND PETROLEUM RESOURCES

PRELIMINARY MAP No. 7, SHEET 2 of 4 SHEETS

120°52'30"

HIGHLAND VALLEY PROJECT

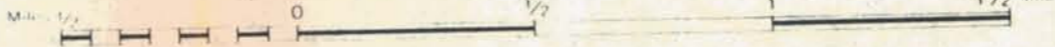
KAMLOOPS DIVISION OF YALE LAND DISTRICT

BRITISH COLUMBIA

SCALE 1 INCH = 1320 FEET

Copies of this map may be obtained from the
 Mineralogical Branch
 Department of Mines and Petroleum Resources
 Victoria, B.C.
 \$1.00 per sheet

Air photography B.C. Gov't 1965
 Updated B.C. Gov't 1969
 Field surveys G. New B.C.L.S. 1969
 Culture check 1969

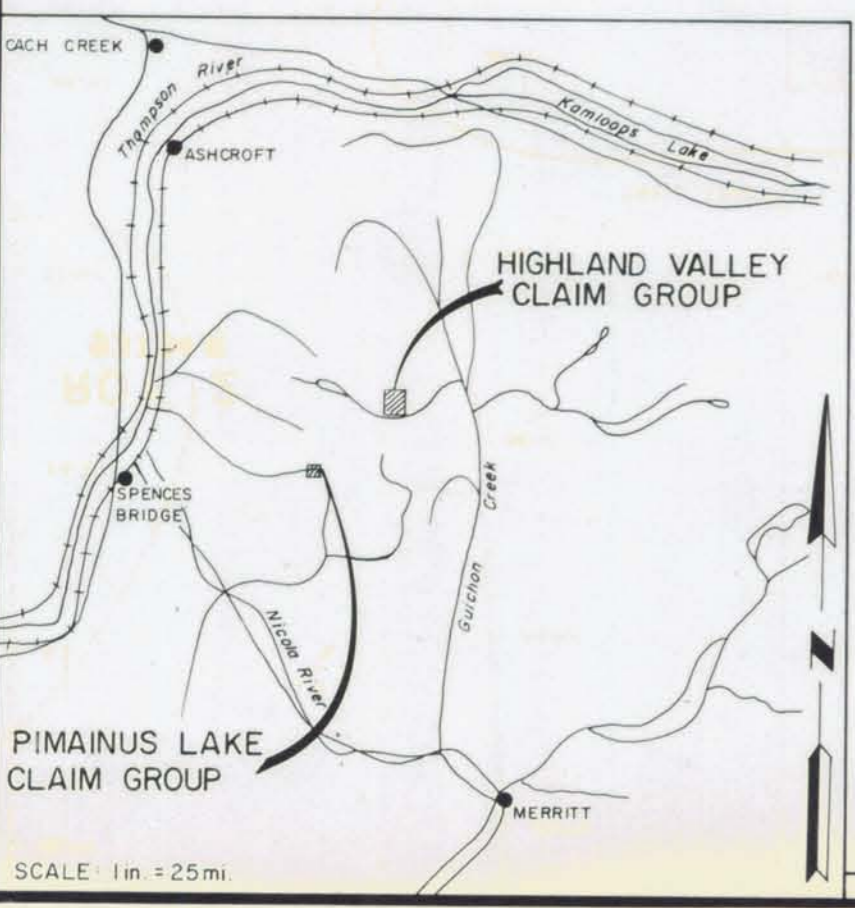
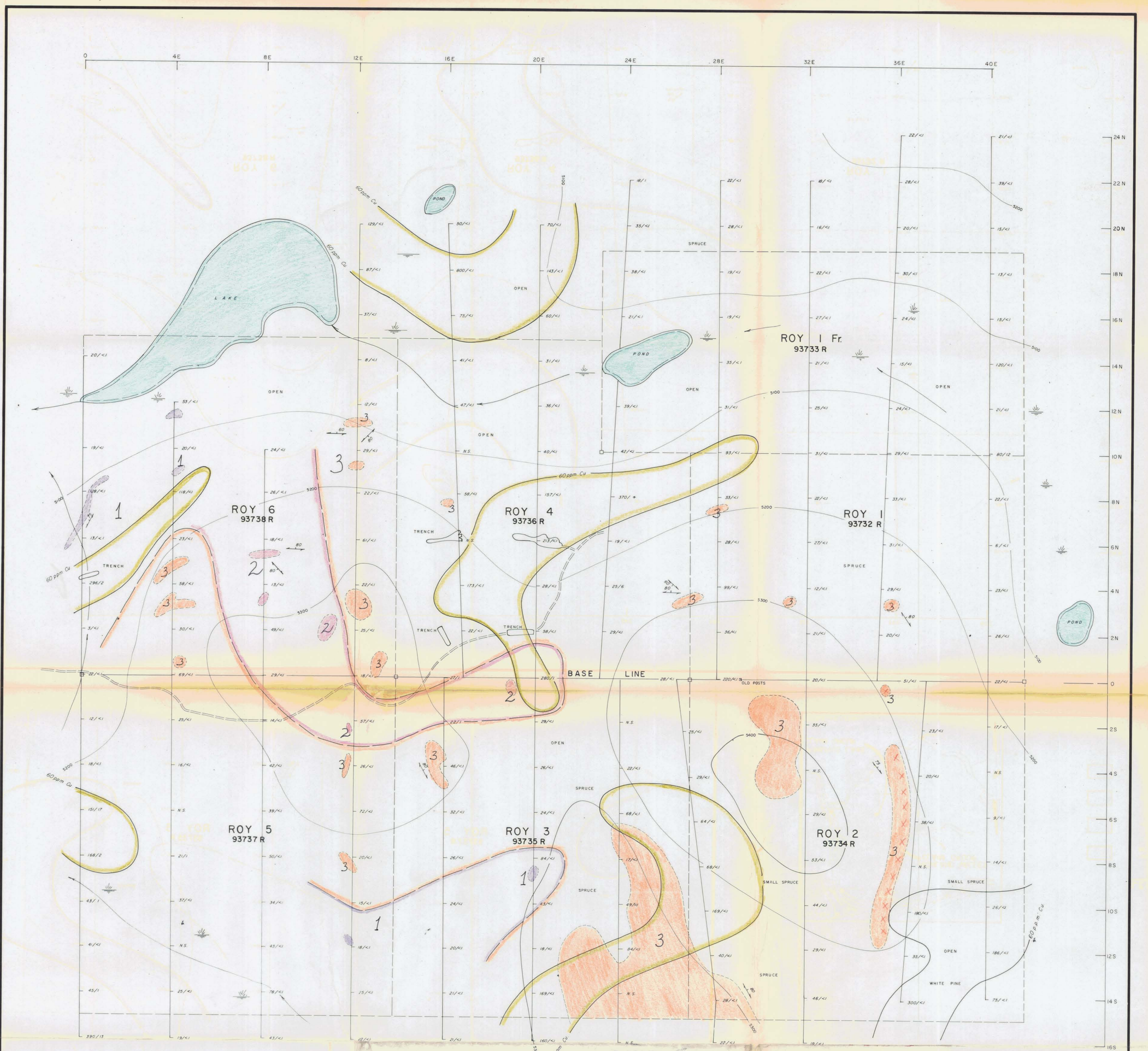


CONTOUR INTERVAL 50 FEET
 Elevations in feet above Mean Sea Level
 POLYCONIC PROJECTION
 Origin 50°-121°

M5

3452

92 1/7



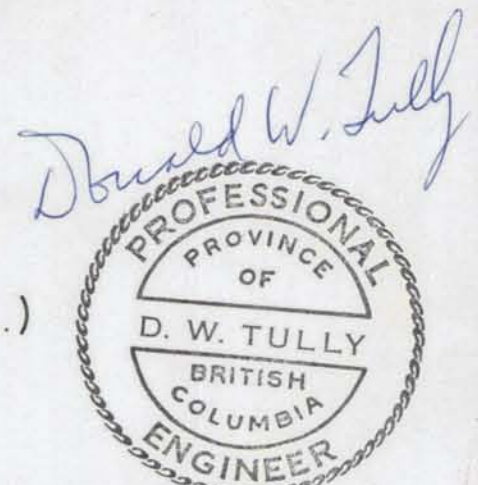
KEY PLAN, SHOWING LOCATION OF CLAIMS

- LEGEND**
- 3 GUICHON BATHOLITH ROCK TYPES BETHSAIDA PHASE
 - 2 SKEENA PHASE
 - 1 GRANDIORITE - DIORITE
 - XXX K - SPAR ALTERATION

- SYMBOLS**
- ROCK OUTCROPS
 - BOULDERS
 - CREEK
 - DIRECTION AND DIP OF FRACTURING
 - INFERRED FAULT
 - GEOCHEMICAL SOIL SAMPLE LOCATION
 - SWAMP
 - CLAIM POST

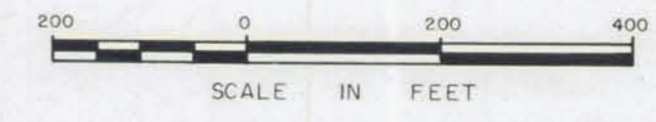
Note: ELEVATIONS BY ANEROID BAROMETER

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3452 MAP #6



ALAKON METALS LTD. (N.P.L.)
ROY CLAIM GROUP I-6, IFr.
KAMLOOPS MINING DIVISION
PIMAINUS LAKE AREA

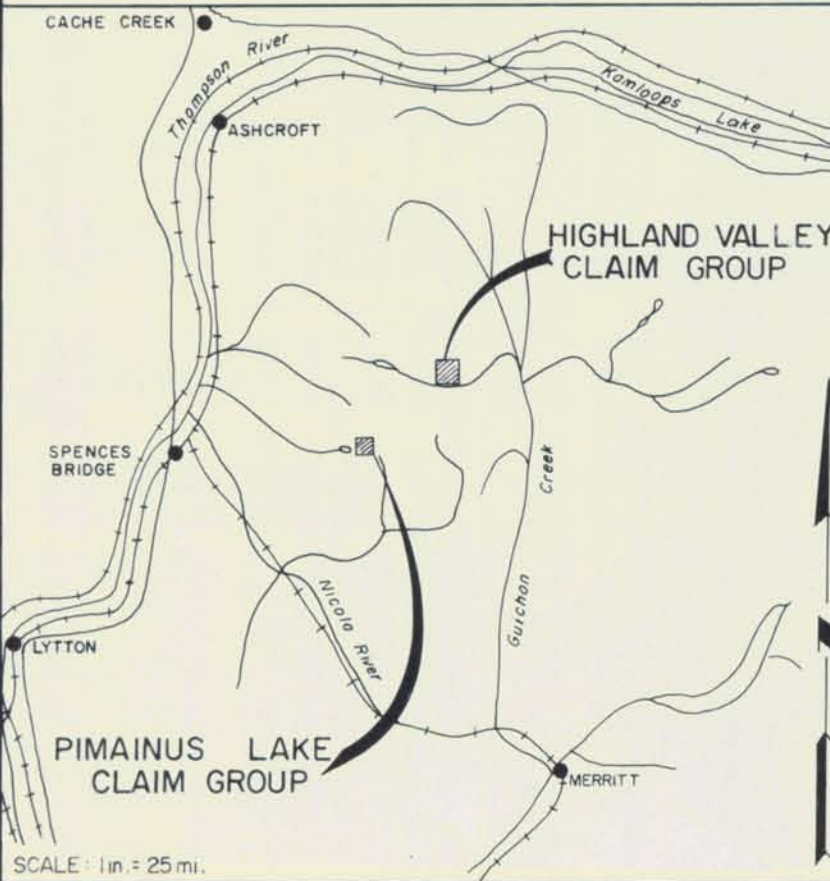
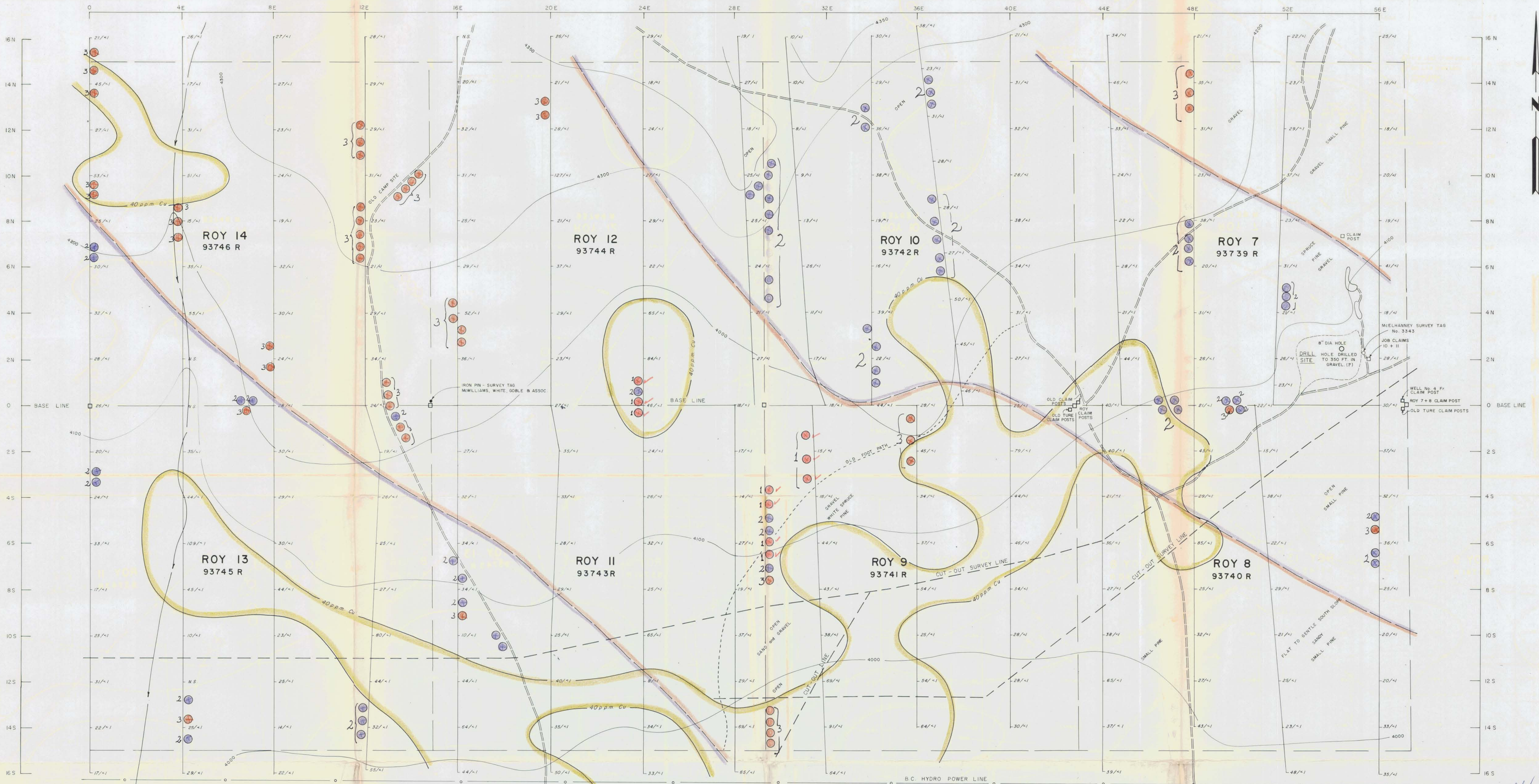
GEOLOGY AND GEOCHEMICAL PLAN



DECEMBER 12, 1971



GEOLOGY AND GEOCHEMICAL SOIL SAMPLING BY:
STRATO GEOLOGICAL LTD.
615 W. HASTINGS ST VANCOUVER, B.C.



KEY PLAN, SHOWING LOCATION OF CLAIMS

LEGEND

- 3 ● BETHLEHEM PHASE BOULDERS (INCLUDING PORPHYRY)
- 2 ● GUICHON VARIETY BOULDERS GRANDIODORITE GRADINGS TO DIORITE
- 1 ● K-SPAR ALTERATION IN BOULDERS

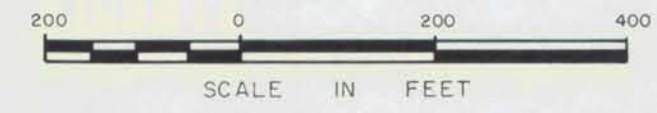
SYMBOLS

- ROCK OUTCROPS
- BOULDERS
- CREEK
- STRIKE & DIP
- - - INFERRED FAULT
- GEOCHEMICAL SOIL SAMPLE LOCATION
- Cu / Mo IN p.p.m.
- SWAMP
- CLAIM POST

Note: ELEVATIONS BY ANEROID BAROMETER

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3452 MAP #7

ALAKON METALS LTD. (N.P.L.)
ROY CLAIM GROUP 7-14
KAMLOOPS MINING DIVISION
HIGHLAND VALLEY AREA
GEOLOGY AND GEOCHEMICAL PLAN



DECEMBER 12, 1971



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