

REPORT ON THE
GEOCHEMICAL, GEOPHYSICAL SURVEYS
ON THE
MONA 1, 2 CLAIMS [40 UNITS]
KAMLOOPS M. D.

Latitude 51°16'15"N Longitude 120°14'30"N

92P8E

11/86

for
LIONHEART RESOURCE CORPORATION
Kamloops, B. C.

FILMED

by
A.F. ROBERTS, P. ENG.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**
January 26, 1985

14,566

11/86

TABLE OF CONTENTS

| | <u>Page</u> |
|-----------------------------------|-------------|
| SUMMARY..... | [i] - [ii] |
| INTRODUCTION..... | 1 |
| LOCATION, ACCESS, TOPOGRAPHY..... | 2 |
| CLAIM GROUP..... | 2 |
| GENERAL GEOLOGY..... | 3 |
| RESULTS OF FIELD WORK..... | 5 |
| Trenching..... | 5 |
| GEOCHEMISTRY..... | 6 |
| Gold..... | 6 |
| Silver..... | 7 |
| GEOPHYSICS..... | 7 |
| Magnetometer Survey..... | 7 |
| VLF-EM Survey..... | 7 |
| CONCLUSIONS..... | 9 |
| RECOMMENDATIONS..... | 10 |
| ESTIMATED COSTS..... | 10 |
| CERTIFICATE..... | 12 |
| STATEMENT OF COSTS..... | 13 |

MAPS

Ref. No.

- 3] Location Map: B.C. Road Map, 1 cm = 25 km [Frontispiece]
- 4] Topographic Map: NTS 92P/1, 1:50,000....[Follows page 1]
- 5] Claim Map: B.C. Department of Mines & Petroleum Resources, 1:50,000.....[Follows page 2]
- 6] Geology Map: GSC Map 1278A, Bonaparte Lake, 1:250,000.....[Follows page 3]
- 9] Sketch Map of Showing Area.....[Follows page 5]
- 11] Geochemistry Map - Gold, 1 cm = 25 m.....[Back Pocket]
- 12] Geochemistry Map - Silver, 1 cm = 25 m.....[Back Pocket]
- 13] Geophysics Map - Magnetometer Survey
1 cm = 25 m.....[Back Pocket]
- 14] Geophysics VLF-EM Survey, 1 cm = 25 m.....[Back Pocket]

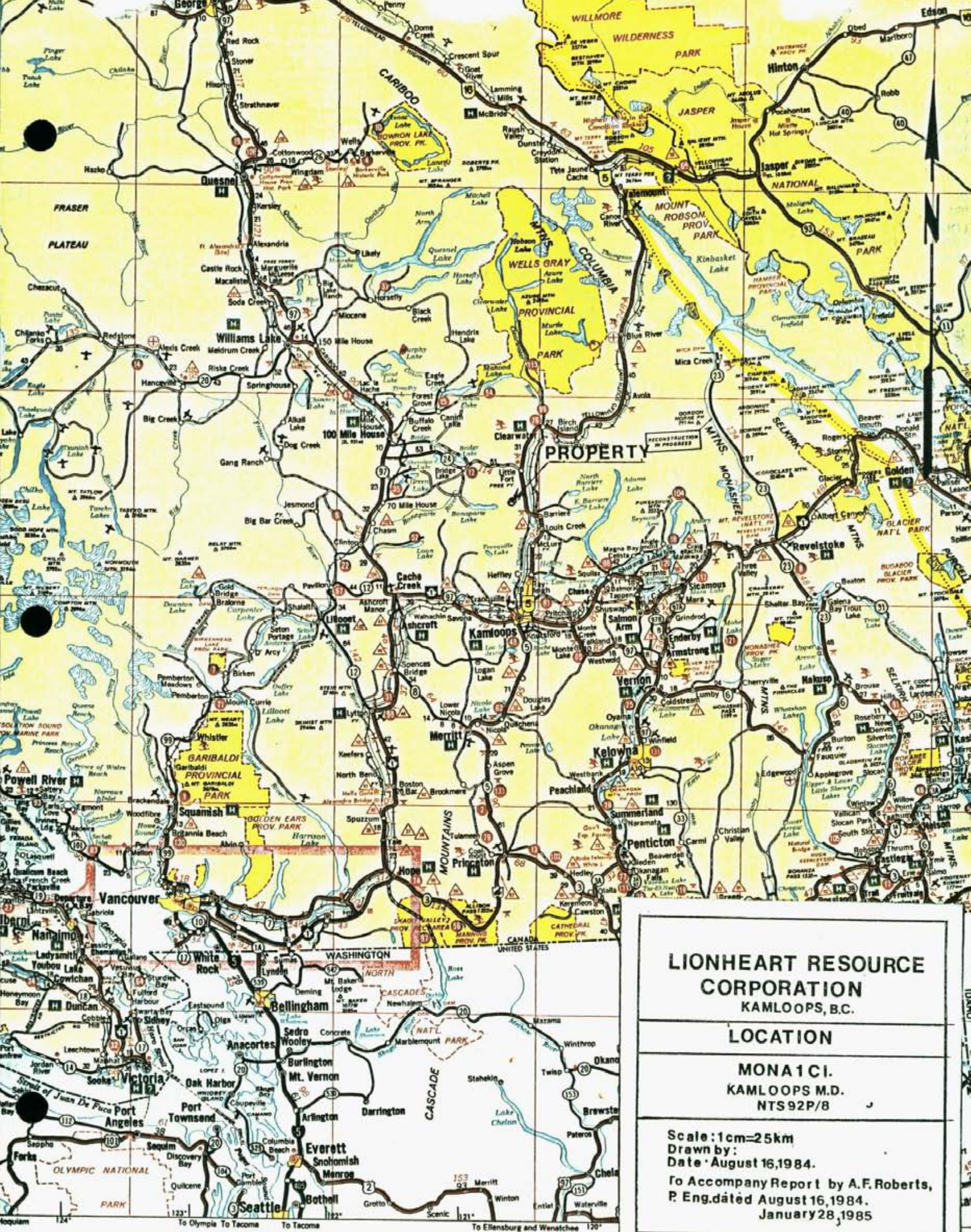
TABLE OF CONTENTS [Cont'd]

REFERENCES

| <u>Ref. No.</u> | | <u>Page</u> |
|-----------------|--|-------------|
| 1] | Report on the Mona 1 Claim [20 units], NTS 92P/8, Kamloops M.D. for Lionheart Resource Corporation, A.F. Roberts, P.Eng., August 16, 1984 | |
| 2] | Addendum to Report dated August 16, 1984 on the Mona 1 Claim [20 units] Kamloops M.D., NTS 92P/8 for Lionheart Resource Corporation, A.F. Roberts, P.Eng., Nov- ember 26, 1984 | |
| 7] | GSC, Geology of Bonaparte Lake Area, Memoir 363, R.B. Campbell, H.W. Tipper, 1971 | |
| 8] | GSC, Summary Reports 1921, Part A - Pages 72-106, W.L. Uglow | |

APPENDICES

| | |
|-----|--|
| 10] | APPENDIX A - Assay Certificates.....[End of Report] |
| 15] | APPENDIX B - Copy of In-Phase Value with Fraser Reductions VLF-EM SURVEY.....[End of Report] |



LIONHEART RESOURCE CORPORATION
KAMLOOPS, B.C.

LOCATION

MONA 1 CI.
KAMLOOPS M.D.
NTS 92P/8

Scale: 1cm=25km
 Drawn by:
 Date: August 16, 1984.

To Accompany Report by A.F. Roberts,
 P. Eng. dated August 16, 1984.
 January 28, 1985

S U M M A R Y

The Company has opened up the vein on their Mona I claim, Kamloops M.D., for an additional 150 feet. Trenching on strike has extended for another 150 feet. Widths are about 6 feet.

Unfortunately, heavy snows have prevented access to the property for sampling, and geology. Two grab samples one from each trench, gave encouraging values.

The geochemical surveys for gold showed a highly anomalous area on the north boundary of the survey, approximately 300 metres east-west, and 200 metres southerly.

Another narrow, but strong anomaly in the northeast corner of the survey.

The balance of the anomalous values appear to be erratics.

Silver anomalies are not particularly strong, though quite extensive in the southwest quarter of the survey, and partially overlap the gold anomalies on the north boundary.

Neither silver or gold show any anomalies around, or over, the known vein. No good explanation is available for this exception. It is possible that the area is highly leached, or samples were not close enough to the vein to register.

A magnetometer survey did not show any marked contrasts when contoured. Probably interprets the underlying rock to be virtually of the same magnetic intensity.

The VLF-EM survey showed two strong linear north-south anomalies, and several small ones.

One cuts across the gold anomaly and is open both ends.

No known mineralization exists to account for them. It is suggested that they are representative of structure, probably faults that may be related to mineralization.

The claim is considered a good bet for finding an economic gold-silver orebody.

It is recommended that the previously recommended program be carried out, although with a diversion of a small amount of money to investigate the major gold-silver anomaly, where it is coincident with the VLF-EM anomaly.

This program is estimated for a total cost of \$76,000.00.

A further stage, when justified, will cost in excess of \$200,000, mostly for diamond drilling.

Respectfully submitted,

A.F. Roberts, P. Eng.,
January 28, 1985

REPORT ON THE
GEOCHEMICAL, GEOPHYSICAL SURVEYS
ON THE
MONA 1, 2 CLAIMS [40 UNITS]
KAMLOOPS M. D.
Latitude 51°16'15"N Longitude 120°14'30"N
for
LIONHEART RESOURCE CORPORATION
Kamloops, B.C.
by
A.F. ROBERTS, P.ENG.
January 28, 1985

INTRODUCTION

This report is authorized by the Directors of the Company.

Its purpose is to analyze the results of work recommended by the writer in reports dated August 16, and November 26, 1984. 1] 2]

The following work has been completed and evaluated:

Trenching:

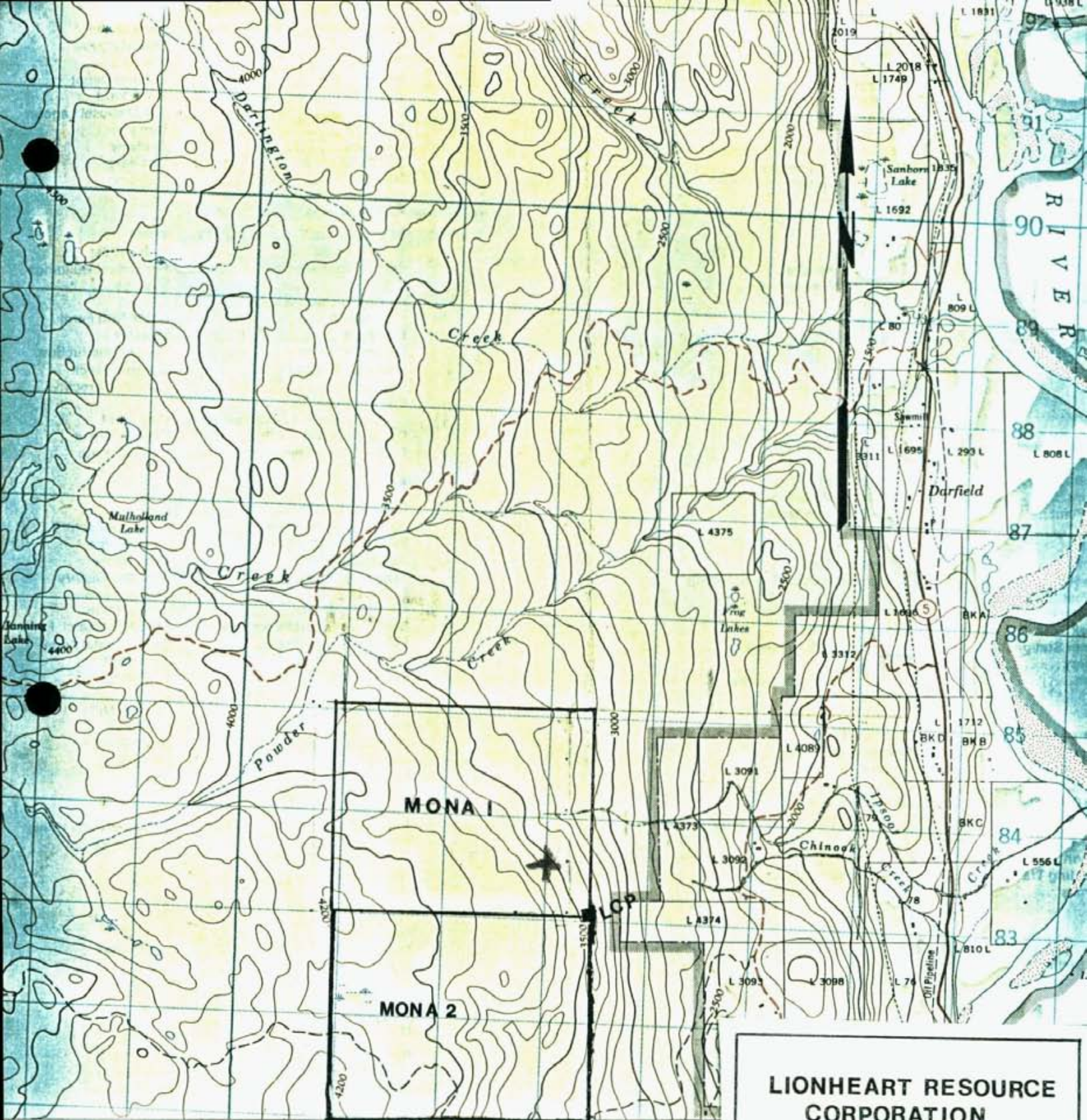
150 feet [50 metres] of vein was stripped and two trenches cut it to expose it for another 150 feet. Heavy snow prevented sampling other than one grab sample from each trench.

Geochemical Survey:

498 samples were taken, on lines with 100 metre spacing, and 25 metre stations. Assays were for Gold, and Silver only.

The program was completed on or about December 19, 1984.

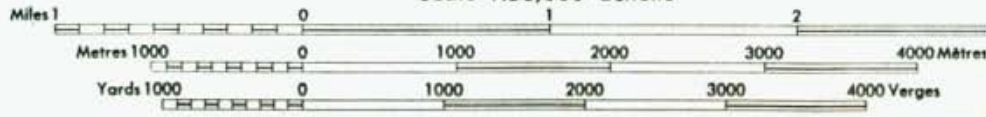
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- 1] Report on the Mona I Claim [20 units] NTS 92 P/8, Kamloops M.D. for Lionheart Resource Corporation, A.F. Roberts, P.Eng., August 16, 1984
 - 2] Addendum to Report dated August 16, 1984 on the Mona I Claim [20 units] Kamloops M.D., NTS 92P/8 for Lionheart Resource Corporation, A.F. Roberts, P.Eng., November 26, 1984



88 89 90 91 15' 93 94
170

CHU CHUA CREEK
 KAMLOOPS DIVISION OF YALE LAND DISTRICT
 BRITISH COLUMBIA

Scale 1:50,000 Échelle



| |
|---|
| <p>LIONHEART RESOURCE CORPORATION KAMLOOPS, B.C.</p> |
| <p>TOPOGRAPHY</p> |
| <p>MONA 1 CI. KAMLOOPS M.D. NTS92P/8</p> |
| <p>Scale: 1:50,000 Drawn by: Date: August 16, 1984. To Accompany Report by A.F. Roberts, P. Eng. dated August 16, 1984. January 28, 1985</p> |

Geophysical Survey:

A VLF-EM survey and a magnetic survey were completed over the same stations as the geochemical survey.

The above work was done by, or supervised by L. Loranger, Contract Mining Services, of Kamloops, B.C.

Due to weather conditions it will be impossible to do any work until April or May, 1985.

LOCATION, ACCESS, TOPOGRAPHY 3] 4]

The property is reached via Highway 5 north from Kamloops for about 80 km, to the Boulder Mt. turnoff for 3 km, thence on a northwesterly trending logging road for about 2 km, a point that is about 200 metres from the vein showing.

In general, the southeasterly parts of the claims are in steep country with a cover of commercial spruce and pine. Parts of the west and northwesterly areas are flatter and have been logged over. Elevations are from 3,400 feet to 4,200 feet [1,067 m. to 1,280 m.].

Overburden is fairly heavy in places, but reasonable for trenching over part of the vein near the showing. The writer has seen only two rock outcrops other than the showing.

No water was seen on the claim.

CLAIM GROUP 5]

The claims are described as follows:

| <u>Name</u> | <u>Units</u> | <u>Record No.</u> | <u>Expiry Date</u> |
|-------------|--------------|-------------------|--------------------|
| Mona 1 | 20 | 5976 | November 21, 1985 |
| Mona 2 | 20 | 5977 | November 21, 1985 |

3] Location Map: B.C. Road Map, 1 cm = 26 km [Frontispiece]

4] Topographic Map: NTS 92P/8, 1:50,000 [Follows Page 1]

5] Claim Map: B.D. Dept. of Mines & Pet. Res. [Follows Page 2]

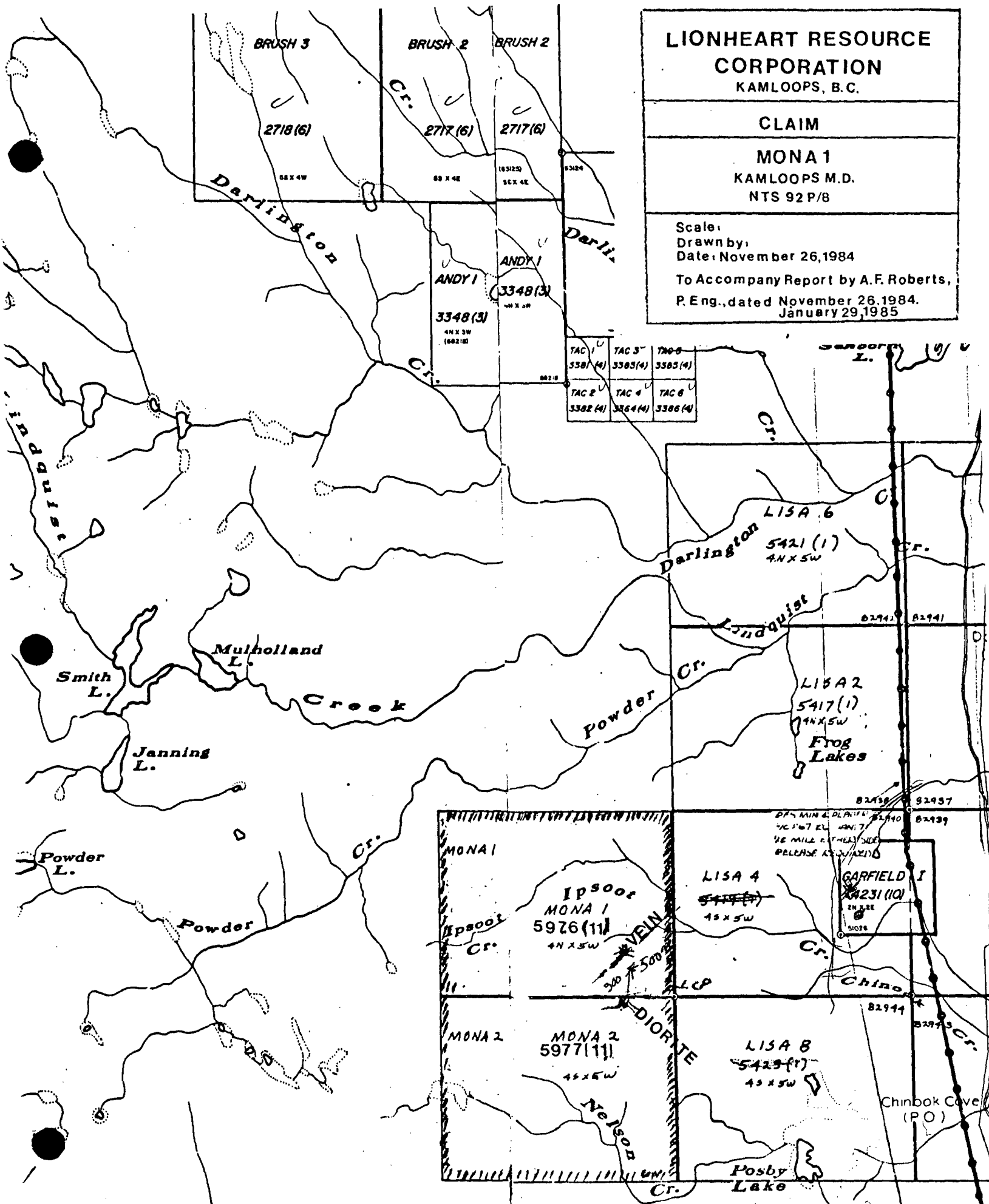
LIONHEART RESOURCE CORPORATION
KAMLOOPS, B.C.

CLAIM

MONA 1
KAMLOOPS M.D.
NTS 92 P/8

Scale:
Drawn by:
Date: November 26, 1984

To Accompany Report by A.F. Roberts,
P. Eng., dated November 26, 1984.
January 29, 1985



| | | |
|-------------------|-------------------|-------------------|
| TAC 1 530 (4) | TAC 3 5305 (4) | TAC 5 5505 (4) |
| TAC 2 5302 (4) | TAC 4 5364 (4) | TAC 6 5386 (4) |

MONA 1
Ipsoc
MONA 1
5976 (11)
49 X 5W

LISA 4
~~5417 (1)~~
45 X 5W

GARFIELD I
5423 (10)
29 X 5E
51028

MONA 2
MONA 2
5977 (11)
45 X 5W

LISA 8
5429 (17)
45 X 5W

DIORITE

VEIN

300 * 500

1/4 MILE E. OF MONA 1
1/4 MILE E. OF MONA 2
1/4 MILE E. OF MONA 3
RELEASE BY JAZZING

82942 82941 82943 82939 82944 82945

Chinook Cr.

Chinook Cove (P.O.)

Posby Lake

Nelson Cr.

China Cr.

China Cr.

120° 15' 120° 15'

The common Legal Corner Post was examined and found to fulfill the requirements of the Mining Act.

The exact location, and the area covered can only be determined by a legal survey.

GENERAL GEOLOGY 6] 7] 8]

The GSC mappings show the claim area to be underlain by rocks of the Morrowan to Guadalupin Formation [Pennsylvanian-Permian] consisting of "volcanic arenite, greenstone, argillite, phyllite, minor quartz schist, limestone, basaltic and andesitic flows, amphibolite, conglomerate and breccia. Includes small bodies of Jurassic hornblende andesite."

A large intrusive of Jurassic granitic rocks lies to the north of the claim, with small bodies of intrusives to the southeast and southwest.

The map does not show any faulting close to the property. All but one indicated fault strike northwesterly. The exception, if projected an unreasonably long distance, could cut the claims from southwest to northeast.

On the ground, the major rock seen is a green andesite, which, at the showing has a major fracture striking N 33° W, Dip 60° W. No other fractures were measured. This rock is non-magnetic, no mineralization, some limonite stain.

-
- 6] Geology Map: GSC MAP 1278A, Bonaparte Lake, 1:250,000 [Follows page 3]
 7] GSC Geology of Bonaparte Lake Area, Memoir 363, R.B. Campbell, H.W. Tipper, 1971
 8] GSC Summary Report 1921, Part A, pages 72-106, W.L. Uglow

LEGEND

JURASSIC

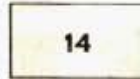
SINEMURIAN TO (?) MIDDLE JURASSIC



16 Porphyritic augite andesite breccia and conglomerate; minor andesite, arenite, tuff, argillite, and flows (may include some 11; 16a, isolated areas of hornblende andesite (may be all or partly intrusive)

TRIASSIC OR JURASSIC

RHAETIAN OR HETTANGIAN



14 THUYA AND TAKOMKANE BATHOLITHS AND SIMILAR GRANITIC ROCKS: hornblende-biotite quartz diorite and granodiorite, minor hornblende diorite, monzonite, gabbro, hornblendite; 14a, diorite and syenodiorite; 14b, leuco-quartz monzonite and granodiorite



13 13a, fine- to medium-grained, pink to brown and grey syenite and monzonite; 13b, medium-grained, creamy-buff, locally coarsely porphyritic (K-feldspar) syenite and monzonite

PENNSYLVANIAN AND PERMIAN

MORROWAN TO GUADALUPIAN



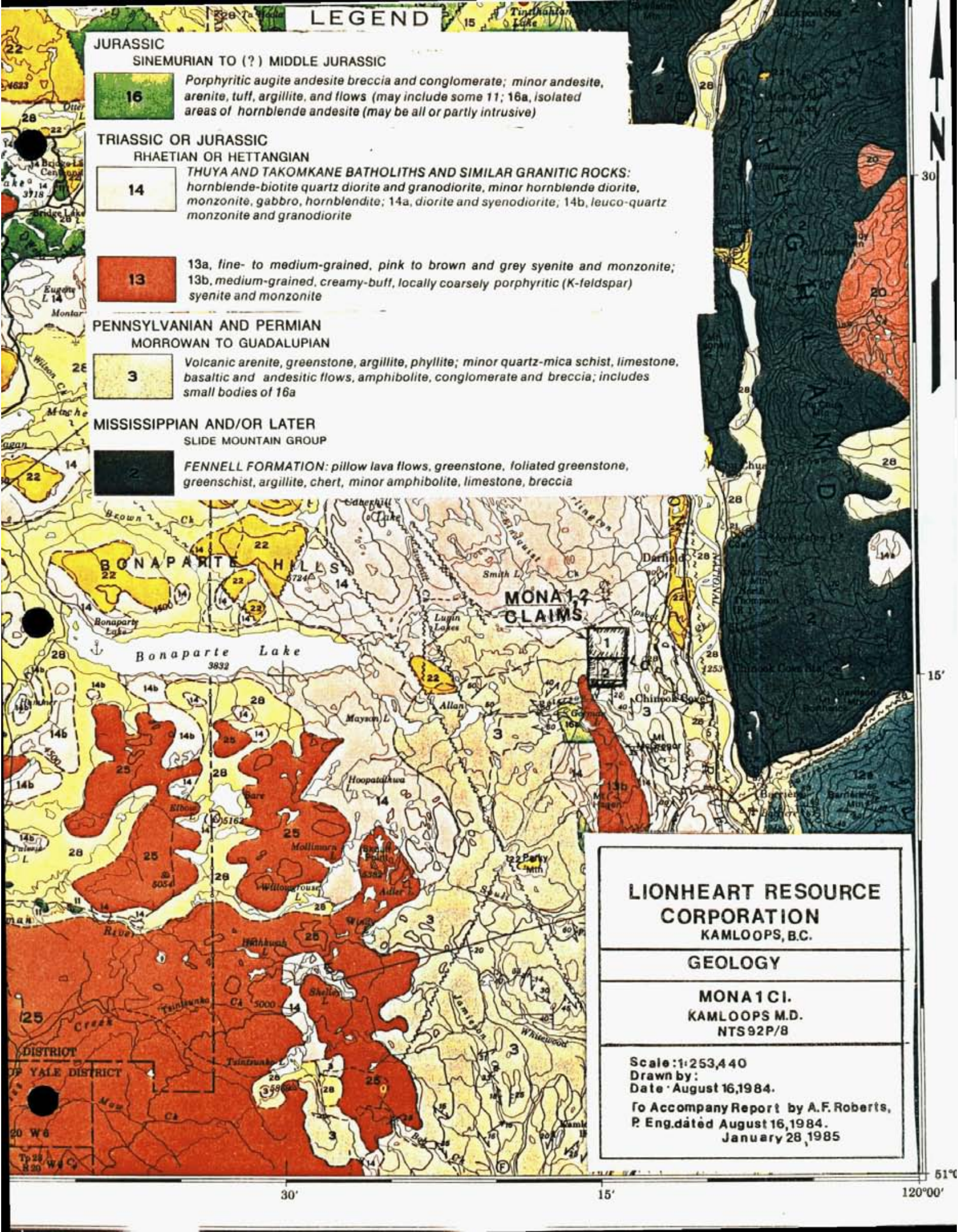
3 Volcanic arenite, greenstone, argillite, phyllite; minor quartz-mica schist, limestone, basaltic and andesitic flows, amphibolite, conglomerate and breccia; includes small bodies of 16a

MISSISSIPPIAN AND/OR LATER

SLIDE MOUNTAIN GROUP



2 FENNEL FORMATION: pillow lava flows, greenstone, foliated greenstone, greenschist, argillite, chert, minor amphibolite, limestone, breccia



LIONHEART RESOURCE CORPORATION
KAMLOOPS, B.C.

GEOLOGY

MONA 1 CI.
KAMLOOPS M.D.
NTS92P/8

Scale: 1:253,440

Drawn by:

Date: August 16, 1984.

To Accompany Report by A.F. Roberts,
P. Eng. dated August 16, 1984.
January 28, 1985

There is an outcrop of diorite about 500 metres south of the showing, that contains very fine pyrite, but assayed only 0.001 ozs/ton in gold.

At the showing there are some pieces of rock, dense, fine grained, faint suggestion of flow banding, a few spherical particles.

In the showing area the old dumps contained a considerable amount of quartz, clear to white, surrounding breccia fragments, 3 to 5 cm in size. Some good widths of quartz, up to 25 cm wide carried breccia fragments.

The quartz is often banded with an occasional veinlet of watery quartz cross-cutting the main mass within the vein area; the rock has the appearance of a highly oxidized diorite, sheared and broken by quartz.

Visible mineralization consisted of pyrite, rare pyrrhotite, very minor chloritic alteration. Pyrite is mostly very fine, under 1 mm, with some to perhaps 3 mm.

The vein as partially exposed strikes N 55° E, dip vertical to westerly. The quartz is slightly banded across the 2 metre width, as partially exposed. There is a pyrite content, along the hanging wall, a few inclusions of rock that may be a granite but too badly oxidized to define.

The footwall contact with the volcanics is sheared and lightly folded.

The assays taken to date indicate, roughly, 10 parts silver to one part gold.

RESULTS OF FIELD WORK 9] 10]

Trenching:

As of November 19, 1984. Roads had been cut into the old adit area, and above the adits.

Work to open the adits had cleared out No. 1 adit portal. Observation shows large, loose blocks of andesite. No entry was made and it should be abandoned for safety reasons.

At No. 2, no portal was found. Probably only surface material was moved, and no face reached.

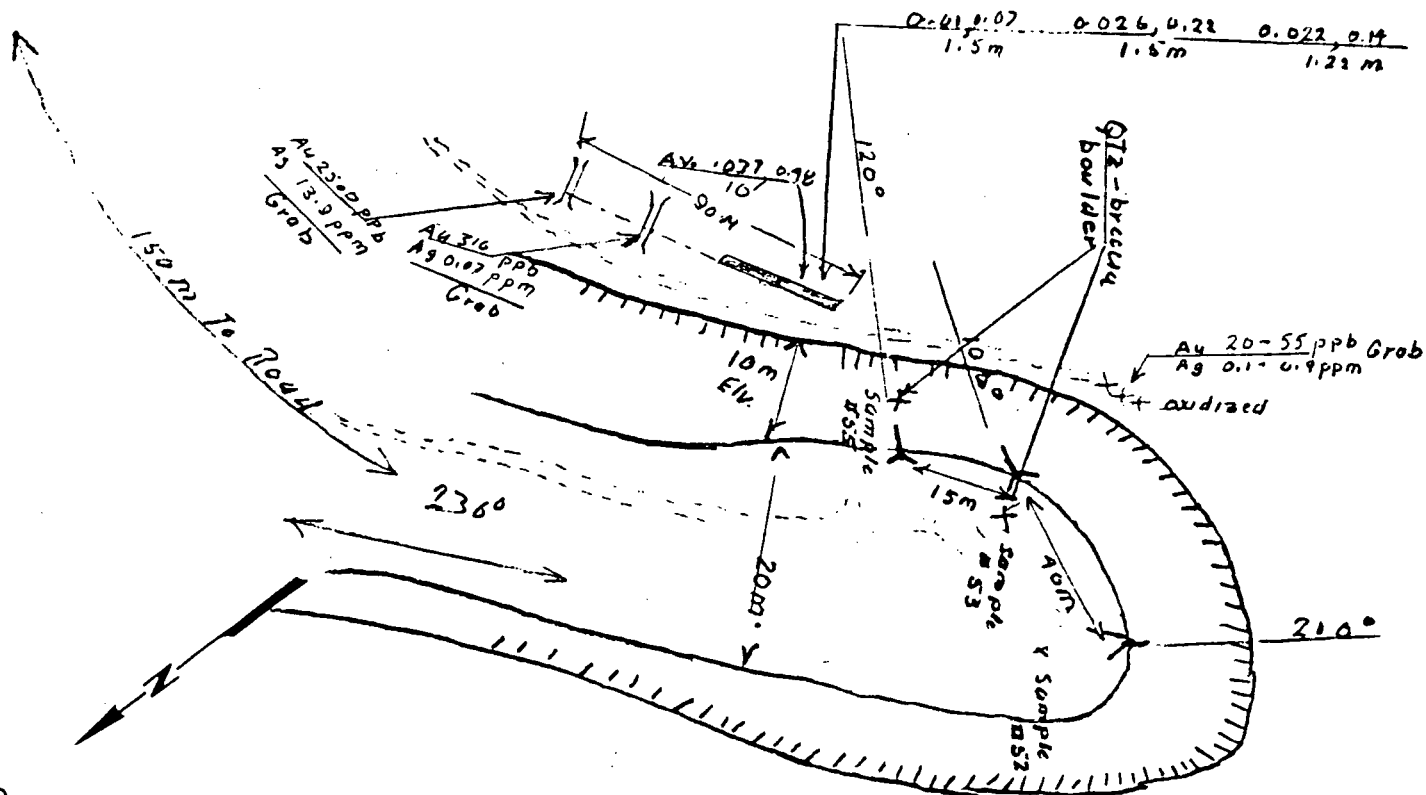
No. 3. A great deal of overburden was cleared out but safe access was not obtained, as the hillside continued to cave, and has been abandoned.

Consequently, there is no evidence other than the muck outside, that the adits ever found the vein. It may have come from a caved section of vein to the north.

The vein was exposed in the road at November 19 visit and has been exposed for 150 feet additional, and in two trenches for a further 150 feet, when weather forced abandonment of the work [92.6 metres]. Apparent width is around $2\frac{1}{2}$ metres, with vertical dip.

It was not sampled before access became impossible. A grab sample out of each trench by rock geochemistry showed:

| | |
|-------------------------------------|------------------|
| 9] Sketch Map of Showing Area | [Follows page 5] |
| 10] Appendix A - Assay Certificates | [End of Report] |



LEGEND

- Road
- ||| Trench
- Adit
- Au, Ag Assays

Samples - Grab

| | Au | Ag |
|----|-------|------|
| 52 | 0.01 | 0.03 |
| 53 | 0.012 | 0.16 |
| 55 | 0.051 | 0.45 |

LIONHEART RESOURCE CORPORATION

KAMLOOPS, B.C.

ASSAY PLAN

MONA 1

KAMLOOPS M.D.
NTS 92 P/8

Scale: None
Drawn by:
Date: November 26, 1984

To Accompany Report by A.F. Roberts,
P. Eng., dated November 26, 1984.
January 28, 1985

| <u>No.</u> | <u>Au [ppb]</u> | <u>Au [oz/ton]</u> | <u>Ag [ppm]</u> | <u>Ag [oz/ton]</u> |
|------------|-----------------|--------------------|-----------------|--------------------|
| 8851 | 310 | 0.009 | 2.3 | 0.07 |
| 8852 | 2500 | 0.073 | 13.9 | 0.405 |

These assays can be considered very encouraging.

GEOCHEMISTRY 11] 12]

Gold:

498 samples were taken in "B" horizon soils. A threshold value of 50 ppb was used, comprising 14.5% of the samples.

Anomalous value of 100 ppb and up, was used, or 4% of samples. 5 ppb area contained 27.3% of samples. 10 ppb area contained 20.6% of samples. Natural abundance in volcanics is given as average of 3 ppb.

There is a strong anomaly along the north boundary open to the north, about 300 metres long by up to 200 metres deep within threshold limits. This anomaly lies on both sides of the base line.

Another strong but narrow anomaly lies in the north-east corner, open to the north and east.

All other anomalous values appear to be scattered erratics.

The writer has no explanation for the obvious fact that no anomalous values, or even threshold values are found in the showing area. One exception: a value of 125 ppb lies 75 metres east of, and slightly south of the second or most northerly trench.

11] Geochemistry Map - Gold, 1 cm = 25 m. [Back pocket]

12] Geochemistry Map - Silver, 1 cm = 25 m. [Back pocket]

Silver:

A threshold value of 0.7 ppm was chosen, comprising of 83 samples at or above that value, or 17.4 ppm.

Anomalous was placed at 1.00 ppm, with 19 values or 4%. Natural abundance in volcanics - 0.1 ppm.

No silver anomalies are particularly large or strong. In part, they overlap the high gold anomalies along the north boundary, but tend to be up to 100 metres more southerly.

There are several fairly extensive, plus threshold, anomalies in the southwest quarter of the map.

As drawn, these anomalies have a south to south-easterly trend.

As with gold, no anomalous conditions are found associated with the known vein exposures.

GEOPHYSICS 13] 14] 15]Magnetometer Survey:

The instrument used was:

Geometrics Magnetometer Model G-836
Serial No. 7092

All readings reduced by 57,000 gammas for mapping purposes, and corrected for diurnal variation.

There does not appear to be any trend to the magnetic contours of the area, possibly southerly in the north and south, with a long, narrow east-west area in the south half.

-
- | | | |
|-----|---|-----------------|
| 13] | Geophysics Map - Magnetometer Survey 1 cm = 25 metres | [Back Pocket] |
| 14] | Geophysics Map - VLF-EM 1 cm = 25 metres | [Back Pocket] |
| 15] | Geophysics VLF-EM - In-Phase Values with Reductions - Appendix B | [End of Report] |

Any relationship with soil sampling is not obvious. All anomalous metallic areas appear to lie in the areas of 850 - 950 gammas, with overlaps on both sides.

Once more there is no correlation with the known showing.

VLF-EM Survey:

The machine used was a Geonics Ronka EM-16, Serial No. 78.

The station used was Seattle at a frequency of 24.8 KHz.

The in-phase values were reduced by Fraser's method to give positive numbers.

Ten was the number chosen for the low limit in contouring.

Two major conductors occur, one on either side of the north-south base line. Both average about 75 - 100 metres wide.

The eastern one is open to the north.

The western one is open both north and south.

There are several smaller ones, of which a rather weak one overlaps the trenches in the showing area.

They all start from the north end with a south to southeasterly trend, then shift to a westerly trend, then back to easterly.

There is no apparent correlation between these conductors and the geochemical anomalies although they apparently overlap in places.

CONCLUSIONS

- 1] There is a known gold-bearing structure that is quite strong. But not correlated with either geochemistry or geophysics. This structure strikes at 55° East.

VLF-EM, silver anomalies have a southerly strike but gold and magnetics are essentially formless, although it is possible to force a southerly strike on them.

- 2] Gold-silver anomalies, although not coincident, are fairly strong on the northern boundary, especially gold, but not coincident with the EM anomalies. Silver low level anomalies are substantial in the southwest area of the map.

- 3] Magnetics are formless and probably reflect the mass of the green andesites. Time and physical work may show a correlation with geological mapping of new exposures.

- 4] VLF-EM. The two strong conductors are not explained. They have no apparent strong relationship with known mineralization nor with the geochemical anomalies.

However, it is possible that the geochemical anomalies are displaced, and further work will show a relationship.

Further, no mineralization has been seen on the property to indicate conductors of this strength.

It is possible they indicate faulting rather than mineralization, and the faulting could be related indirectly to the indicated gold-silver anomalies.

It is concluded that the Company should direct a small part of its funds to follow upon the gold-silver anomalies on the northern boundary and to open up the VLF-EM anomalies.

RECOMMENDATIONS

The November 26, 1984 report recommended Geochemical and VLF-EM surveys over the balance of the Mona 1 claim.

This work should be done, but not so extensively. Divert part of the money to trenching the gold anomaly on the northern boundary of the surveyed area.

Try a trench across both the major VLF-EM anomalies at their strongest points.

Continue trenching on the known showing, if conditions permit.

ESTIMATED COSTS

Phase I was completed, as per this report.

Phase II of Previous Program.

As recommended in the November report, \$45,000 was assigned to geochemical and geophysical surveys.

The following changes in the work program, but not financing:

| | |
|--|---------------------|
| Further geochemical and geophysical surveys expanding from last work, with samplers to note specifically any outcrops and take chip samples | \$ 35,000.00 |
| Further trenching and clean up on the known vein | 2,500.00 |
| Trenching on new geochem anomaly, north boundary and trenching across VLF-EM anomalies at sections of their common overlap on the northern three lines | <u>7,500.00</u> |
| | \$ 45,000.00 |
| The balance of the program to remain the same: | |
| Diamond drilling, 200 metres @ \$90/m. | 18,000.00 |
| Assaying, 15 @ \$15.25 | 662.50 |
| Engineering, supervision, etc. | <u>5,000.00</u> |
| Sub-total | 68,662.50 |
| 10% contingencies | <u>6,866.25</u> |
| Total | <u>\$ 75,528.75</u> |
| Say <u>\$76,000.00</u> | |

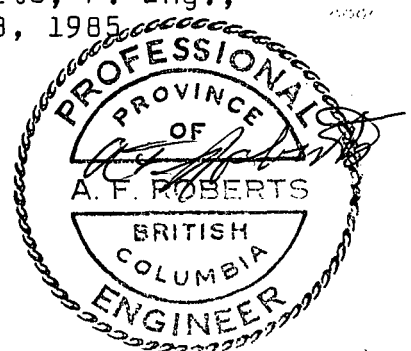
Phase III

This phase will depend on the results of Phase II. It will probably consist of more diamond drilling, possibly further trenching and can be expected to cost in excess of \$200,000.00.

Respectfully submitted,



A.F. Roberts, P. Eng.,
January 28, 1985

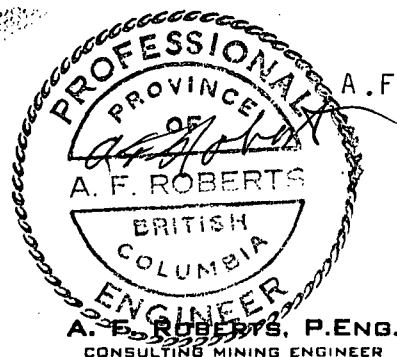


C E R T I F I C A T E

I, A.F. Roberts of 812 Fairbrook Crescent, Richmond, B.C., do hereby certify that:

- [1] I am a graduate of the University of British Columbia [B.Ap.Sc.] in Mining Engineering, 1951.
- [2] I am registered as a Professional Engineer of the Province of British Columbia, and am a member of the Canadian Institute of Mining and Metallurgy.
- [3] I have practiced my profession since 1951 with Quatsino Copper Gold Mines Ltd., Giant Mascot Mines Ltd., Coch-enour Willans Gold Mines Ltd., Mogul Mines Ltd., Kerr Addison Gold Mines Ltd., Atlantic Coast Copper Corporation Ltd., Wasamac Mines Ltd., Brenda Mines Ltd., and T.C. Explorations Ltd. Since January of 1970 I have been an independent Consultant.
- Previous to, and during University, I worked as a miner underground, and on several exploration-development projects.
- [4] The accompanying report is based entirely on a personal analysis of the reports and other data referred to in the text, and examinations of the property on July 7, November 19, 1984, and the Geochemical, Geophysical Survey data presented in the text.
- [5] I have no interest, direct or indirect, in the Lionheart Resource Corporation property, or adjacent properties, nor have I any interest, direct or indirect, in any companies controlled by Lionheart Resource Corporation. I have not, nor do I expect to receive any interest in the shares of the Company, in its securities, or in those of any company with which it may become associated.
- [6] I consent to the use of this report, in or in connection with, a prospectus, or a statement of material facts relating to the raising of funds for this project.

DATED at Vancouver, British Columbia, this 28th day of January 28, 1985.



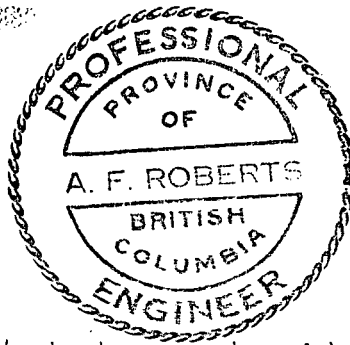
A.F. Roberts
A.F. Roberts, P. Eng.

STATEMENT OF COSTS

| | |
|---|----------------------------|
| L. Loranger, Contract Mining Services Field Supervision, Geochemical, Geophysical Surveys | \$ 9,620.00 |
| J. Myron Trucking, Backhoe Trenching | 2,740.00 |
| Bloomfield - Bulldoze roads, trenching | 5,600.00 |
| Assaying | 5,028.35 |
| McElhanney, Topo Map from Air Photos 1:5,000 | 2,550.00 |
| Engineer's Transportation in field | 234.00 |
| Engineer's Reports [2] | <u>3,081.00</u> |
| Total | <u><u>\$ 28,853.35</u></u> |

The above is a true statement of costs, compiled from the Company's invoices.

The field work was noted and approved by the engineer.



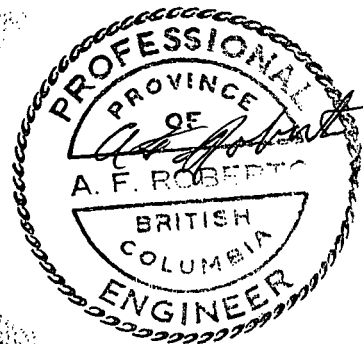
Respectfully submitted,

A. F. Roberts

A.F. Roberts, P. Eng.,
January 28, 1985

NOTE: Work done and paid for before the re-staking of the claims is not included.

A.F.R.
A.F.R.



APPENDIX A

ASSAY CERTIFICATES



ENVIRONMENTAL TESTING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ASSAYING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 2J3 Phone (604) 573-5700
Telex: 048-8393

December 6, 1984

CERTIFICATE OF ANALYSIS

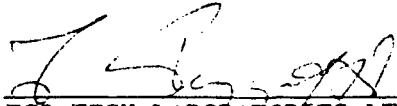
CLIENT: Lionheart Resources Corporation
419 Robson Drive
KAMLOOPS, B. C.
V2E 1W2

ATTENTION: Ken Ellerbeck

SAMPLE IDENTIFICATION: 2 rock samples received November 27, 1984

CERTIFICATE OF ANALYSIS NUMBER: ET375

| <u>Description</u> | <u>Au (ppb)</u> | <u>Ag (ppm)</u> |
|--------------------|------------------|-----------------|
| 8851 | 310. 0.00702/Ten | 2.3 0.0702/Ten |
| 8852 | 2,500. 0.073 | 13.9 0.4102/Ten |



ECO-TECH LABORATORIES LTD.
Thomas J. Fletcher, B.Sc.
Chief Assayer

TJF/FJP/mil



ENVIRONMENTAL TESTING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ASSAYING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 2J3 Phone (604) 573-5700
Telex: 048-8393

November 29, 1984

CERTIFICATE OF ANALYSIS

CLIENT: Lionheart Resource Corporation
419 Robson
KAMLOOPS, B. C.
V2E 1W2

ATTENTION: Mr. Ken Ellerbeck

SAMPLE IDENTIFICATION: 222 soil samples received November 23, 1984 for
geochemical analysis

CERTIFICATE OF ANALYSIS NUMBER: ET373

| <u>Description</u> | <u>Au (ppb)</u> | <u>Ag (ppm)</u> |
|--------------------|-----------------|-----------------|
| M10 | <5 | 0.6 |
| 11 | 10 | 0.5 |
| 12 | <5 | 0.3 |
| 13 | 5 | 0.3 |
| 14 | 10 | 0.3 |
| 15 | 5 | 0.7 |
| M16 | <5 | 0.2 |
| 17 | 5 | 0.4 |
| 18 | 5 | 0.3 |
| 19 | 5 | 0.3 |
| 20 | <5 | 0.6 |
| M21 | 5 | 0.6 |
| 22 | 25 | 0.4 |
| 23 | 50 | 0.6 |
| 24 | 15 | 0.2 |
| 25 | 5 | 0.5 |
| M26 | 10 | 0.4 |
| 27 | 30 | 0.4 |
| 28 | 15 | 0.4 |
| 29 | 5 | 0.5 |
| 30 | 15 | 0.1 |

.../2

| <u>Description</u> | <u>Au (ppb)</u> | <u>Ag (ppm)</u> |
|--------------------|-----------------|-----------------|
| M31 | 5 | 0.4 |
| 32 | 15 | 0.2 |
| 33 | 10 | 0.4 |
| 34 | 15 | 0.4 |
| 35 | 10 | 0.2 |
| M36 | 15 | 0.5 |
| 37 | 5 | 0.6 |
| 38 | 10 | 0.5 |
| 39 | 10 | 0.4 |
| 40 | <5 | 0.3 |
| M41 | 5 | 0.6 |
| 42 | 5 | 0.4 |
| 43 | 10 | 0.4 |
| 44 | 5 | 0.1 |
| 45 | 10 | 0.2 |
| M46 | 5 | 0.5 |
| 47 | 50 | 0.3 |
| 48 | <5 | 0.5 |
| 49 | 15 | 0.3 |
| 50 | 10 | 0.5 |
| M51 | 5 | 0.6 |
| 52 | 5 | 0.6 |
| 53 | 10 | 0.5 |
| 54 | 5 | 0.5 |
| 55 | <5 | 0.5 |
| M56 | 10 | 0.9 |
| 57 | 25 | 1.0 |
| 58 | 10 | 0.3 |
| 59 | 10 | 0.5 |
| 60 | 5 | 0.7 |
| M61 | 5 | 0.4 |
| 62 | 10 | 0.6 |
| 63 | 10 | 0.3 |
| 64 | 5 | 0.6 |
| 65 | 5 | 0.1 |
| M66 | 20 | 0.5 |
| 67 | 25 | 0.6 |
| 68 | 25 | 0.3 |
| 69 | 10 | 0.4 |
| 70 | 50 | 0.3 |

| <u>Description</u> | <u>Au (ppb)</u> | <u>Ag (ppm)</u> |
|--------------------|-----------------|-----------------|
| M71 | 5 | 0.2 |
| 72 | 20 | 0.2 |
| 73 | 10 | 0.5 |
| 74 | 10 | 0.6 |
| 75 | 10 | 0.4 |
| M76 | 20 | 0.5 |
| 77 | 5 | 0.6 |
| 78 | 15 | 0.6 |
| 79 | 5 | 0.7 |
| 80 | 35 | 0.4 |
| M81 | 60 | 0.6 |
| 82 | 25 | 0.7 |
| 83 | 75 | 0.4 |
| 84 | 35 | 0.4 |
| 85 | 20 | 0.3 |
| M86 | 5 | 0.3 |
| 87 | 20 | 0.6 |
| 88 | 10 | 0.6 |
| 89 | 15 | 0.5 |
| 90 | 15 | 1.1 |
| M91 | 25 | 0.6 |
| 92 | 45 | 0.5 |
| 93 | 25 | 0.1 |
| 94 | 35 | 0.3 |
| 95 | 25 | 0.6 |
| M96 | 30 | 0.5 |
| 97 | 10 | 0.6 |
| 98 | 20 | 0.2 |
| 99 | 40 | 0.2 |
| 100 | 45 | 0.3 |
| M101 | 25 | 0.3 |
| 102 | 45 | 0.6 |
| 103 | 20 | 0.3 |
| 104 | 350 | 0.3 |
| 105 | 205 | 0.2 |
| M106 | 185 | 0.3 |
| 107 | 210 | 0.4 |
| 108 | 315 | 0.3 |
| 109 | 100 | 0.6 |
| 110 | 105 | 0.5 |

.../4

| <u>Description</u> | <u>Au (ppb)</u> | <u>Ag (ppm)</u> |
|--------------------|-----------------|-----------------|
| M111 | 80 | 0.5 |
| 112 | 65 | 0.6 |
| 113 | 60 | 0.4 |
| 114 | 05 | 0.3 |
| 115 | 50 | 0.5 |
| M116 | 55 | 0.3 |
| 117 | 55 | 0.5 |
| 118 | 45 | 0.6 |
| 119 | 50 | 0.5 |
| 120 | 20 | 0.3 |
| M121 | 30 | 0.4 |
| 122 | 65 | 0.2 |
| 123 | 85 | 0.7 |
| 124 | 55 | 0.5 |
| 125 | 80 | 0.4 |
| M126 | 95 | 1.0 |
| 127 | 60 | 0.4 |
| 128 | 165 | 0.6 |
| 129 | 45 | 0.9 |
| 130 | 45 | 0.5 |
| M131 | 55 | 1.1 |
| 132 | 60 | 0.6 |
| 133 | 85 | 1.2 |
| 134 | 90 | 0.7 |
| 135 | 45 | 0.6 |
| M136 | 40 | 0.7 |
| 137 | 80 | 0.8 |
| 138 | 155 | 0.5 |
| 139 | 95 | 0.7 |
| 140 | 70 | 0.4 |
| M141 | 55 | 0.5 |
| 142 | 35 | 0.9 |
| 143 | 45 | 1.5 |
| 144 | 40 | 1.1 |
| 145 | 90 | 0.7 |
| M146 | 55 | 0.5 |
| 147 | 60 | 0.7 |
| 148 | 15 | 0.7 |
| 149 | 65 | 0.4 |
| 150 | 50 | 0.8 |

.../5

| <u>Description</u> | <u>Au (ppb)</u> | <u>Ag (ppm)</u> |
|--------------------|-----------------|-----------------|
| M151 | 50 | 0.4 |
| 152 | 80 | 0.5 |
| 153 | 25 | 1.0 |
| 154 | 25 | 0.6 |
| 155 | 25 | 0.7 |
| M156 | 15 | 0.6 |
| 157 | 50 | 0.8 |
| 158 | 45 | 0.8 |
| 159 | 40 | 0.8 |
| 160 | 50 | 0.7 |
| M161 | 50 | 0.6 |
| 162 | 35 | 0.8 |
| 163 | 40 | 1.0 |
| 164 | 40 | 0.9 |
| 165 | 35 | 0.5 |
| M166 | 20 | 0.5 |
| 167 | 35 | 0.4 |
| 168 | 70 | 0.2 |
| 169 | 40 | 0.7 |
| 170 | 50 | 0.4 |
| M171 | 45 | 0.2 |
| 172 | 30 | 0.4 |
| 173 | 165 | 0.5 |
| 174 | 40 | 0.4 |
| 175 | 20 | 0.4 |
| M176 | 15 | 0.5 |
| 177 | 25 | 0.5 |
| 178 | 25 | 0.2 |
| 179 | 5 | 0.7 |
| 180 | 30 | 0.6 |
| M181 | 80 | 0.6 |
| 182 | 15 | 0.8 |
| 183 | 5 | 0.6 |
| 184 | 5 | 0.4 |
| 185 | 5 | 0.5 |
| M186 | 5 | 0.8 |
| 187 | <5 | 0.9 |
| 188 | 10 | 0.6 |
| 189 | 15 | 0.7 |
| 190 | <5 | 0.5 |

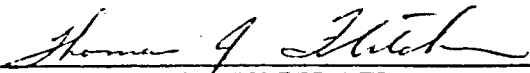
.../6

| <u>Description</u> | <u>Au (ppb)</u> | <u>Ag (ppm)</u> |
|--------------------|-----------------|-----------------|
| M201 | 10 | 0.5 |
| 202 | 125 | 0.5 |
| 203 | 5 | 0.4 |
| 204 | 5 | 0.5 |
| 205 | 5 | 0.4 |
| M206 | 25 | 0.6 |
| 207 | 10 | 0.3 |
| 208 | 15 | 1.0 |
| 209 | 15 | 0.2 |
| 210 | 20 | 0.1 |
| M211 | 15 | 0.1 |
| 212 | 20 | 0.4 |
| 213 | 20 | 0.4 |
| 214 | 10 | 0.4 |
| 215 | <5 | 0.4 |
| M216 | 20 | 0.5 |
| 217 | 5 | 0.5 |
| 218 | 5 | 0.5 |
| 219 | 10 | 0.3 |
| 220 | 10 | 0.3 |
| M221 | 15 | 0.3 |
| 222 | 10 | 0.5 |
| 223 | 5 | 0.3 |
| 224 | 5 | 0.3 |
| 225 | 15 | 0.2 |
| M226 | 5 | 0.4 |
| 227 | 5 | 0.2 |
| 228 | 10 | 0.2 |
| 229 | * | 0.8 |
| 230 | 5 | 0.1 |
| M231 | * | 0.6 |
| 232 | * | 0.6 |
| 233 | * | 0.3 |
| 234 | <5 | 0.9 |
| 235 | <5 | 0.5 |

.../7

| <u>Description</u> | <u>Au (ppb)</u> | <u>Ag (ppm)</u> |
|--------------------|-----------------|-----------------|
| M236 | 5 | 0.3 |
| 237 | 5 | 0.4 |
| 238 | 20 | 0.3 |
| 239 | 5 | 0.3 |
| 240 | 5 | 0.3 |
| 241 | <5 | 0.3 |

NOTES: < = less than
* Insufficient sample to perform analysis


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Thomas J. Fletcher, B.Sc.
Chief Assayer

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December 6, 1984

CERTIFICATE OF ANALYSIS

CLIENT: Lionheart Resource Corporation
419 Robson
KAMLOOPS, B. C.
V2E 1W2

ATTENTION: Mr. Ken Ellerbeck

SAMPLE IDENTIFICATION: 135 soil samples received November 27, 1984 for
geochemical analysis

CERTIFICATE OF ANALYSIS NUMBER: ET373A

| <u>Description</u> | <u>Au (ppb)</u> | <u>Ag (ppm)</u> |
|--------------------|-----------------|-----------------|
| M191 | 15 | 0.6 |
| 192 | 15 | 0.4 |
| 193 | 15 | 0.6 |
| 194 | 20 | 0.3 |
| 195 | 20 | 0.4 |
| M196 | 20 | 0.3 |
| 197 | 15 | 0.5 |
| 198 | 15 | 0.5 |
| 199 | 5 | 0.5 |
| 200 | 10 | 0.7 |
| M242 | 10 | 0.5 |
| 243 | 10 | 0.6 |
| 244 | <5 | 0.3 |
| 245 | 5 | 0.4 |
| M246 | 10 | 0.4 |
| 247 | 10 | 0.4 |
| 248 | 10 | 1.0 |
| 249 | 10 | 0.2 |
| 250 | 10 | 0.4 |

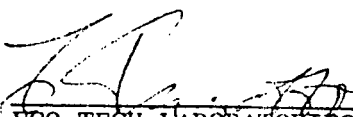
| <u>Description</u> | <u>Au (ppb)</u> | <u>Ag (ppm)</u> |
|--------------------|-----------------|-----------------|
| M251 | 10 | 0.3 |
| 252 | 10 | 0.5 |
| 253 | 15 | 0.2 |
| 254 | 15 | 0.5 |
| 255 | 10 | 0.6 |
| M256 | 25 | 0.4 |
| 257 | 40 | 0.9 |
| 258 | 65 | 1.8 |
| 259 | 15 | 0.8 |
| 260 | 10 | 0.5 |
| M261 | 10 | 0.5 |
| 262 | 10 | 0.6 |
| 263 | 10 | 0.5 |
| 264 | 20 | 0.6 |
| 265 | 15 | 0.4 |
| M266 | 10 | 0.4 |
| 267 | 15 | 0.5 |
| 268 | 25 | 0.6 |
| 269 | 15 | 0.5 |
| 270 | 15 | 0.4 |
| M271 | 10 | 0.5 |
| 272 | 5 | 0.4 |
| 273 | 10 | 0.3 |
| 274 | 20 | 0.3 |
| 275 | 15 | 0.4 |
| M276 | 15 | 0.6 |
| 277 | 10 | 0.3 |
| 278 | 10 | 0.2 |
| 279 | 10 | 0.3 |
| 280 | 5 | 0.7 |
| M281 | 10 | 0.4 |
| 282 | 5 | 0.3 |
| 283 | <5 | 0.3 |
| 284 | 10 | 0.3 |
| 285 | 15 | 0.2 |
| M286 | 20 | 0.4 |
| 287 | 30 | 0.4 |
| 288 | 15 | 0.4 |
| 289 | 10 | 0.3 |
| 290 | <5 | 0.5 |

| <u>Description</u> | <u>Au (ppb)</u> | <u>Ag (ppm)</u> |
|--------------------|-----------------|-----------------|
| M291 | 25 | 0.5 |
| 292 | 10 | 0.5 |
| 293 | 20 | 0.4 |
| 294 | 25 | 0.5 |
| 295 | 15 | 0.6 |
| M296 | 30 | 0.6 |
| 297 | 15 | 0.6 |
| 298 | 20 | 0.8 |
| 299 | 25 | 0.4 |
| 300 | 15 | 0.7 |
| M301 | 15 | 0.4 |
| 302 | 15 | 0.6 |
| 303 | 20 | 0.5 |
| 304 | 15 | 0.5 |
| 305 | 20 | 0.5 |
| M306 | 15 | 0.5 |
| 307 | 10 | 0.5 |
| 308 | 10 | 0.4 |
| 309 | 10 | 0.4 |
| 310 | 10 | 0.3 |
| M311 | <5 | 0.5 |
| 312 | 5 | 0.3 |
| 313 | 10 | 0.4 |
| 314 | 5 | 0.3 |
| 315 | 15 | 0.4 |
| M316 | 20 | 0.5 |
| 317 | 45 | 0.7 |
| 318 | 15 | 0.6 |
| 319 | 15 | 0.4 |
| 320 | 25 | 0.5 |
| M321 | 20 | 0.4 |
| 322 | 15 | 0.4 |
| 323 | 25 | 0.4 |
| 324 | 10 | 0.6 |
| 325 | 25 | 0.4 |
| M326 | 25 | 0.7 |
| 327 | 10 | 0.6 |
| 328 | 15 | 0.4 |
| 329 | 5 | 0.4 |
| 330 | 10 | 0.3 |

.../4

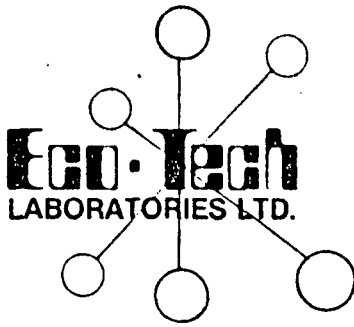
| <u>Description</u> | <u>Au (ppb)</u> | <u>Ag (ppm)</u> |
|--------------------|-----------------|-----------------|
| M331 | 10 | 0.4 |
| 332 | 10 | 0.3 |
| 333 | 5 | 0.5 |
| 334 | 5 | 0.4 |
| 335 | 15 | 0.3 |
| M336 | 15 | 0.3 |
| 337 | 10 | 0.4 |
| 338 | 10 | 0.5 |
| 339 | 20 | 0.5 |
| 340 | 15 | 0.5 |
| M341 | 15 | 0.8 |
| 342 | 25 | 0.4 |
| 343 | 20 | 0.3 |
| 344 | 5 | 0.4 |
| 345 | 10 | 0.4 |
| M346 | 20 | 0.3 |
| 347 | 15 | 0.5 |
| 348 | 10 | 0.3 |
| 349 | 10 | 0.6 |
| 350 | 20 | 0.4 |
| M351 | 5 | 0.2 |
| 352 | 10 | 0.4 |
| 353 | 15 | 0.3 |
| 354 | 10 | 0.2 |
| 355 | 20 | 0.2 |
| M356 | 20 | 0.2 |
| 357 | 10 | 0.4 |
| 358 | 10 | 0.2 |
| 359 | 10 | 0.3 |
| 360 | 5 | 0.2 |
| M361 | 5 | 0.2 |
| 362 | 20 | 0.5 |
| 363 | <5 | 0.1 |
| 364 | 15 | 0.2 |
| 365 | <5 | 0.5 |
| M366 | 5 | 0.6 |
| 367 | 10 | 0.5 |

NOTE: < = less than


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ENVIRONMENTAL TESTING
GEOCHEMISTRY
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ASSAYING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 2J3 Phone (604) 573-5700
Telex: 048-8393

December 18, 1984

CERTIFICATE OF ANALYSIS

CLIENT: Lionheart Resource Corporation
419 Robson
KAMLOOPS, B. C.
V2E 1W2

ATTENTION: Mr. Ken Ellerbeck

SAMPLE IDENTIFICATION: 141 soil samples received December 6, 1984 for
geochemical analysis

CERTIFICATE OF ANALYSIS NUMBER: ET373B

| <u>Description</u> | <u>Au (ppb)</u> | <u>Ag (ppm)</u> |
|--------------------|-----------------|-----------------|
| M368 | 115 | 0.9 |
| 369 | 5 | 0.7 |
| 370 | 5 | 0.6 |
| M371 | 5 | 1.7 |
| 372 | 5 | 0.6 |
| 373 | 5 | 0.8 |
| 374 | 5 | 0.7 |
| 375 | 5 | 0.5 |
| M376 | 5 | 0.3 |
| 377 | 5 | 0.5 |
| 378 | 5 | 0.6 |
| 379 | 5 | 1.3 |
| 380 | 15 | 0.9 |
| M381 | 5 | 0.9 |
| 382 | 5 | 0.9 |
| 383 | 10 | 0.6 |
| 384 | 5 | 0.9 |
| 385 | 15 | 0.5 |
| M386 | 5 | 0.9 |
| 387 | 5 | 1.0 |
| 388 | 15 | 0.3 |
| 389 | 5 | 0.4 |
| 390 | 5 | 0.6 |

.../2

| <u>Description</u> | <u>Au (ppb)</u> | <u>Ag (ppm)</u> |
|--------------------|-----------------|-----------------|
| M391 | 5 | 0.4 |
| 392 | 5 | 0.5 |
| 393 | 5 | 0.7 |
| 394 | 15 | 0.5 |
| 395 | 5 | 0.8 |
| M396 | 5 | 0.6 |
| 397 | 5 | 0.8 |
| 398 | 20 | 0.6 |
| 399 | 10 | 0.8 |
| 400 | 10 | 0.7 |
| M401 | 5 | 0.4 |
| 402 | 10 | 0.6 |
| 403 | 10 | 0.7 |
| 404 | 10 | 0.5 |
| 405 | 10 | 0.7 |
| M406 | 5 | 0.5 |
| 407 | 10 | 0.3 |
| 408 | 10 | 0.2 |
| 409 | 10 | 0.5 |
| 410 | 10 | 0.4 |
| M411 | 5 | 0.3 |
| 412 | 5 | 0.4 |
| 413 | 5 | 0.5 |
| 414 | 5 | 0.5 |
| 415 | 5 | 0.3 |
| M416 | 10 | 0.2 |
| 417 | 5 | 0.3 |
| 418 | 5 | 0.1 |
| 419 | 5 | 0.3 |
| 420 | 15 | 0.1 |
| M421 | 50 | 0.2 |
| 422 | 20 | 0.3 |
| 423 | 10 | 0.3 |
| 424 | 10 | 0.3 |
| 425 | 5 | 0.2 |
| M426 | 5 | 0.2 |
| 427 | 10 | 0.5 |
| 428 | 10 | 0.6 |
| 429 | 15 | 0.3 |
| 430 | 10 | 0.3 |

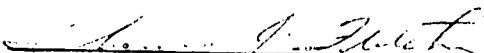
.../3

| <u>Description</u> | <u>Au (ppb)</u> | <u>Ag (ppm)</u> |
|--------------------|-----------------|-----------------|
| M431 | 15 | 0.5 |
| 432 | 10 | 0.6 |
| 433 | 30 | 0.5 |
| 434 | 20 | 0.5 |
| 435 | 15 | 0.3 |
| M436 | 5 | 0.2 |
| 437 | <5 | 0.6 |
| 438 | <5 | 0.4 |
| 439 | 15 | 0.3 |
| 440 | 5 | 0.3 |
| M441 | 10 | 0.4 |
| 442 | 30 | 0.5 |
| 443 | 25 | 0.5 |
| 444 | 5 | 0.5 |
| 445 | 5 | 0.1 |
| M446 | 5 | 0.5 |
| 447 | 15 | 0.3 |
| 448 | 5 | 0.8 |
| 449 | 10 | 0.6 |
| 450 | 20 | 0.3 |
| M451 | 15 | 0.3 |
| 452 | 10 | 0.7 |
| 453 | 10 | 0.3 |
| 454 | 5 | 0.2 |
| 455 | 10 | 0.2 |
| M456 | * | 0.3 |
| 457 | 5 | 0.3 |
| 458 | 10 | 0.7 |
| 459 | 15 | 0.5 |
| 460 | 15 | 0.6 |
| M461 | 5 | 0.8 |
| 462 | 10 | 0.2 |
| 463 | 20 | 0.3 |
| 464 | 15 | 0.9 |
| 465 | 15 | 0.5 |
| M466 | 75 | 0.6 |
| 467 | 10 | 0.3 |
| 468 | 15 | 0.6 |
| 469 | 20 | 0.3 |
| 470 | <5 | 1.3 |

.../4

| <u>Description</u> | <u>Au (ppb)</u> | <u>Ag (ppm)</u> |
|--------------------|-----------------|-----------------|
| M471 | 10 | 0.3 |
| 472 | 65 | 0.4 |
| 473 | 120 | 0.4 |
| 474 | 130 | 0.2 |
| 475 | 10 | 0.2 |
| M476 | 20 | 0.4 |
| 477 | 10 | 0.3 |
| 478 | 10 | 0.6 |
| 479 | 30 | 0.4 |
| 480 | 5 | 0.6 |
| M481 | 75 | 0.5 |
| 482 | 10 | 0.6 |
| 483 | 10 | 0.5 |
| 484 | 15 | 0.3 |
| 485 | 10 | 0.6 |
| M486 | 10 | 0.6 |
| 487 | 60 | 0.8 |
| 488 | 5 | 0.6 |
| 489 | 20 | 0.4 |
| 490 | 70 | 0.6 |
| M491 | 25 | 0.4 |
| 492 | 10 | 1.0 |
| 493 | 10 | 1.3 |
| 494 | 20 | 0.6 |
| 495 | 10 | 0.5 |
| M496 | 20 | 0.4 |
| 497 | 5 | 0.5 |
| 498 | 5 | 0.5 |
| M501 | 10 | 0.4 |
| 502 | 5 | 0.4 |
| 503 | 5 | 0.5 |
| 504 | 5 | 0.2 |
| 505 | 10 | 0.9 |
| M506 | 5 | 0.4 |
| 507 | 5 | 0.3 |
| 508 | 5 | 0.5 |
| 509 | 5 | 0.2 |
| 510 | 10 | 0.5 |

NOTES: < = less than
* Insufficient sample


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Chief Assayer

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APPENDIX B

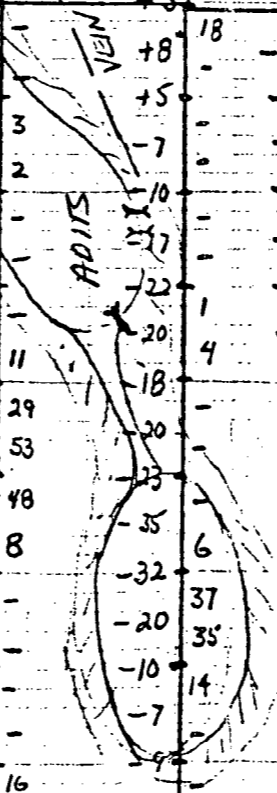
COPY OF IN PHASE VALUE

WITH FRASER REDUCTIONS

VLF - EM SURVEY

| | | | | | | | | | | | | | | |
|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -18 | -30 | 40 | 10 | -19 | -10 | -14 | -13 | -20 | -17 | -24 | -25 | -18 | -30 | -18 |
| -21 | -15 | 2 | 7 | -24 | -15 | -14 | -17 | -23 | -18 | -20 | -20 | -20 | -30 | -30 |
| -20 | -20 | 2 | 3 | -28 | -28 | -20 | -25 | -24 | -22 | -22 | -23 | -23 | -32 | -22 |
| -20 | -23 | 4 | 6 | -30 | -33 | -27 | -25 | -35 | -23 | -23 | -25 | -25 | -25 | -29 |
| -17 | -21 | 11 | 5 | -30 | 12 | 8 | -30 | -40 | 12 | -26 | 7 | -20 | -38 | -25 |
| -8 | -18 | 12 | 4 | -28 | 12 | 30 | -27 | -35 | 19 | -19 | 12 | -15 | -42 | -38 |
| -4 | -15 | 11 | 12 | -20 | 24 | 15 | -32 | -28 | 7 | -23 | 1 | -18 | -22 | -30 |
| -14 | -12 | 10 | 15 | -17 | 13 | 22 | -20 | -33 | 1 | -21 | - | -15 | -8 | -22 |
| -20 | -10 | 11 | 9 | -18 | 4 | 18 | -15 | -28 | 20 | -28 | 1 | -22 | -15 | -20 |
| -9 | -7 | 11 | 3 | -15 | 7 | 6 | -15 | -27 | 26 | -27 | 14 | -17 | -20 | -23 |
| -5 | -4 | 5 | 1 | -13 | 6 | 3 | -16 | -15 | 25 | -15 | 32 | -19 | -24 | -25 |
| -2 | -2 | - | - | -14 | 3 | 3 | -14 | -8 | 22 | -8 | 42 | -14 | -15 | -20 |
| -2 | -4 | - | - | -16 | 1 | 11 | -10 | -5 | 18 | +8 | 38 | -12 | -15 | -20 |
| -2 | -8 | - | - | -18 | 3 | 0 | -9 | 0 | 8 | +7 | 5 | -12 | -15 | -12 |
| -3 | -10 | - | 5 | -12 | 10 | 3 | -12 | -5 | - | -2 | - | 0 | -13 | -15 |
| -7 | -13 | - | 12 | -9 | 9 | 7 | -12 | -8 | - | -7 | - | -1 | -10 | -13 |
| -10 | -15 | 6 | 8 | -9 | 4 | 2 | -7 | -10 | - | -15 | - | -10 | -18 | -10 |
| -20 | -13 | 12 | - | -8 | 3 | - | -11 | -18 | - | -18 | - | -10 | -15 | -8 |
| -19 | -9 | 11 | - | -7 | 4 | 3 | -17 | -15 | 1 | -24 | - | -12 | -11 | -12 |
| -15 | -7 | 3 | - | -6 | 1 | 8 | -18 | -12 | 9 | -27 | 5 | -12 | -8 | -15 |
| -10 | -4 | - | 1 | -8 | - | 5 | -11 | -12 | 6 | -10 | 29 | -10 | -10 | -20 |
| -12 | -9 | - | - | -7 | - | - | -10 | -9 | 5 | -12 | 10 | -10 | -15 | -20 |
| -17 | -7 | - | - | -10 | - | - | -10 | -10 | 16 | -15 | - | -10 | -15 | -20 |
| -22 | -22 | - | - | -16 | - | - | -10 | +5 | 32 | -20 | - | -10 | -15 | -20 |

| | | | | | | | | | | | | | | |
|-----|-----|----|----|-----|-----|-----|----|-----|-----|-----|----|-----|----|-----|
| -26 | -30 | - | - | -23 | -22 | -25 | +8 | -20 | -18 | -13 | - | -12 | 0 | -15 |
| -33 | -36 | - | 1 | -25 | -25 | -30 | +5 | -18 | -19 | -14 | - | -13 | - | -12 |
| -50 | -45 | - | - | -31 | -25 | -25 | -7 | -16 | -8 | -15 | 2 | -15 | - | -17 |
| -47 | -53 | - | - | -37 | -27 | -27 | 2 | -10 | -12 | -10 | 7 | -17 | - | -20 |
| -29 | -53 | 10 | - | -41 | -33 | -28 | 10 | -10 | -13 | -12 | - | -15 | 2 | -23 |
| -17 | -35 | 49 | - | -50 | -42 | -28 | 22 | -13 | -13 | -16 | - | -15 | - | -27 |
| -20 | -22 | 47 | 48 | -55 | -45 | -40 | 11 | -15 | -15 | -18 | - | -20 | - | -14 |
| -23 | -19 | 22 | 81 | -20 | 81 | 28 | 4 | -10 | -18 | -18 | 10 | -18 | 0 | -22 |
| -14 | -16 | 17 | 28 | -4 | 71 | 74 | 29 | -8 | -19 | -20 | 12 | -19 | - | -35 |
| -10 | -8 | 23 | - | 0 | 14 | 74 | 53 | -5 | -25 | -30 | 9 | -30 | - | -35 |
| -6 | -4 | 15 | 8 | -10 | +9 | 14 | 48 | -4 | -32 | -40 | 9 | -40 | - | -35 |
| -7 | -5 | - | 13 | -22 | - | - | 8 | -5 | -23 | -25 | 1 | -38 | - | -25 |
| -6 | -10 | - | 3 | - | - | - | - | -3 | -14 | -10 | 2 | -38 | 33 | -25 |
| -5 | -13 | - | - | -26 | 12 | -8 | - | -4 | -11 | -6 | 0 | -10 | 48 | -25 |
| -5 | -7 | 18 | 0 | -20 | 23 | -27 | 10 | -4 | -16 | -22 | 3 | -5 | 23 | -25 |
| -5 | +2 | 26 | 10 | -16 | 22 | -23 | 28 | -4 | -17 | -19 | 12 | -7 | - | -10 |
| -2 | +2 | 11 | 18 | -7 | 11 | -12 | 16 | 0 | -17 | -19 | 13 | -7 | - | 0 |
| +6 | +4 | 1 | 18 | -7 | 2 | -10 | 28 | +4 | -17 | -1 | 0 | -10 | 2 | 0 |
| +4 | +2 | 2 | 18 | -5 | 2 | -5 | 7 | +5 | -16 | -5 | 18 | -10 | 19 | 0 |
| +2 | +5 | - | 12 | -7 | - | -10 | 14 | -5 | 0 | -8 | 33 | +2 | 12 | 0 |
| +3 | +3 | +5 | +5 | -8 | -8 | -10 | - | -8 | 0 | -6 | - | 0 | 0 | 0 |



GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,566

BL 10,000

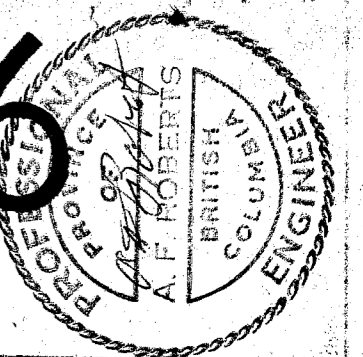
BL 10,000E

MONA
92 P18
EM-16

| | |
|------|---------|
| 10. | Fraser |
| Left | Results |
| | Right |

Map # 3

14,566



LIONHEART RESOURCE CORPORATION
KAMLOOPS, B.C.

GEOCHEMISTRY SHEET

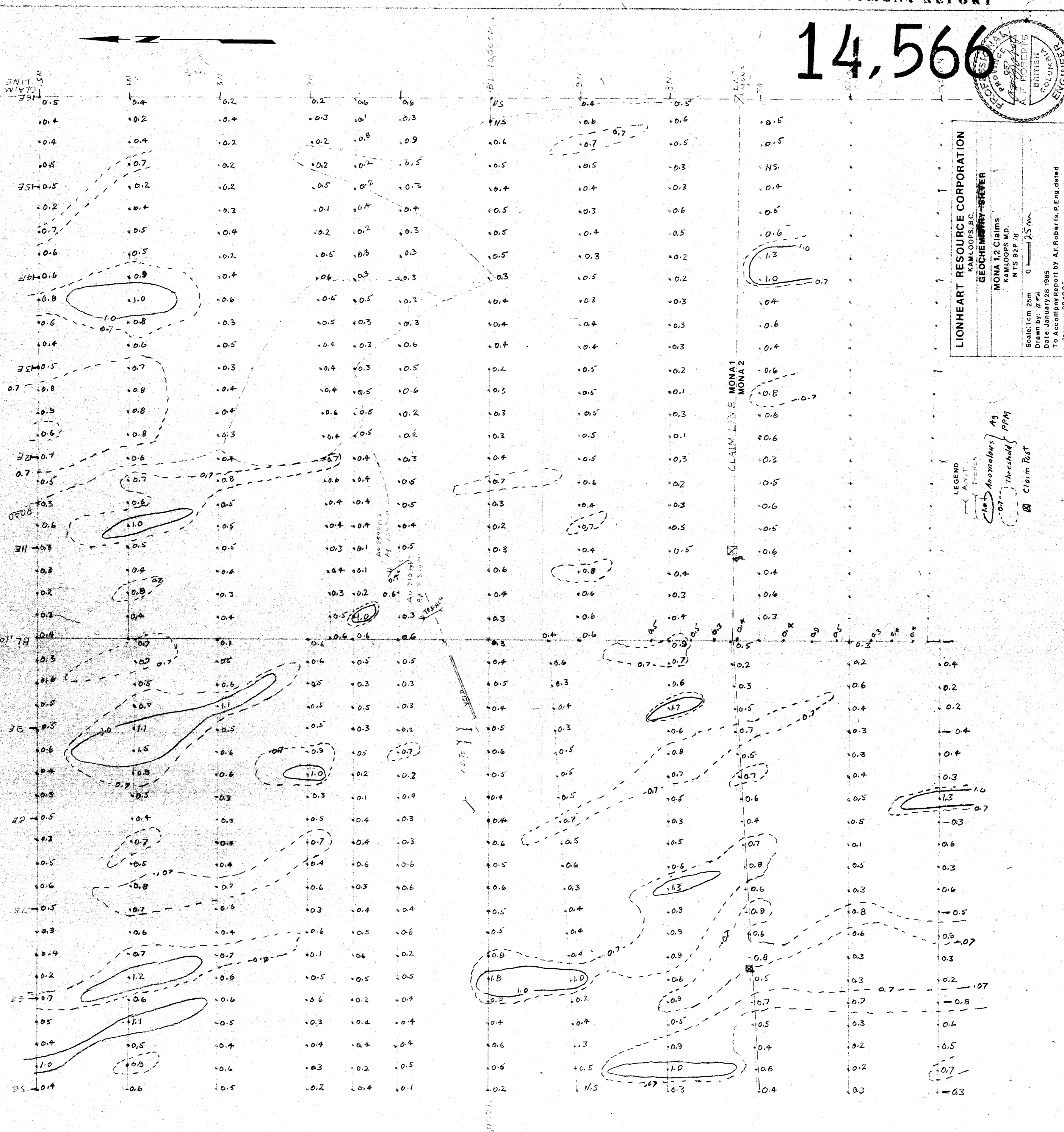
MONA 12 Claims
KAMLOOPS M.D.
NTS 92P/B

Scale: 1cm = 25m

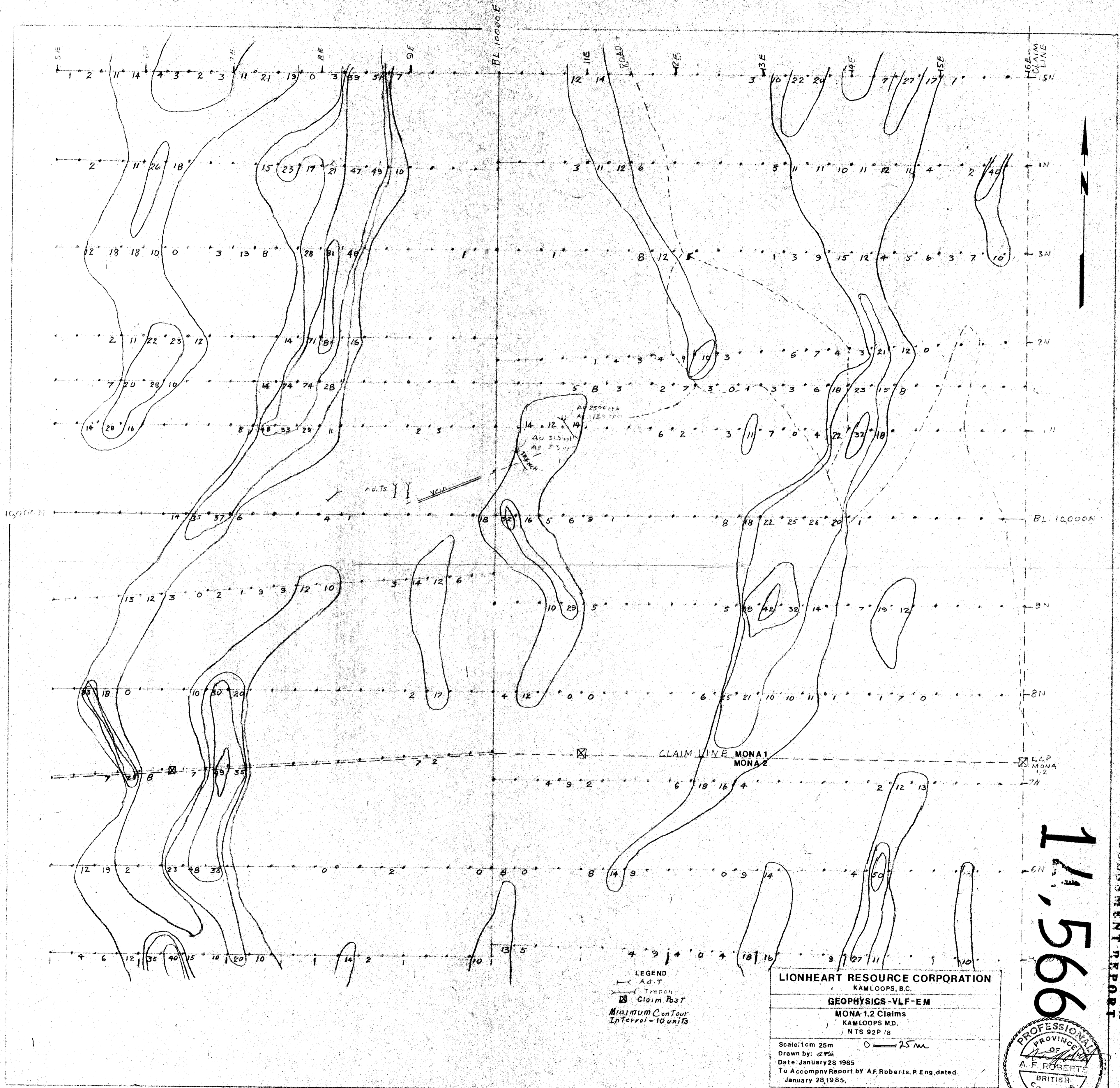
Drawn by: G.P.

Date: January 28, 1985

To: A company Report by A.F. Roberts, P. Eng. dated
January 28, 1985.



LEGEND
 --- TRENCH
 (---) ANOMALOUS Ag
 (---) THRESHOLD
 [] CLAIM POST



LEGEND
 Ad.T
 Trench
 Claim Post
 Minimum Contour
 Interval - 10 units

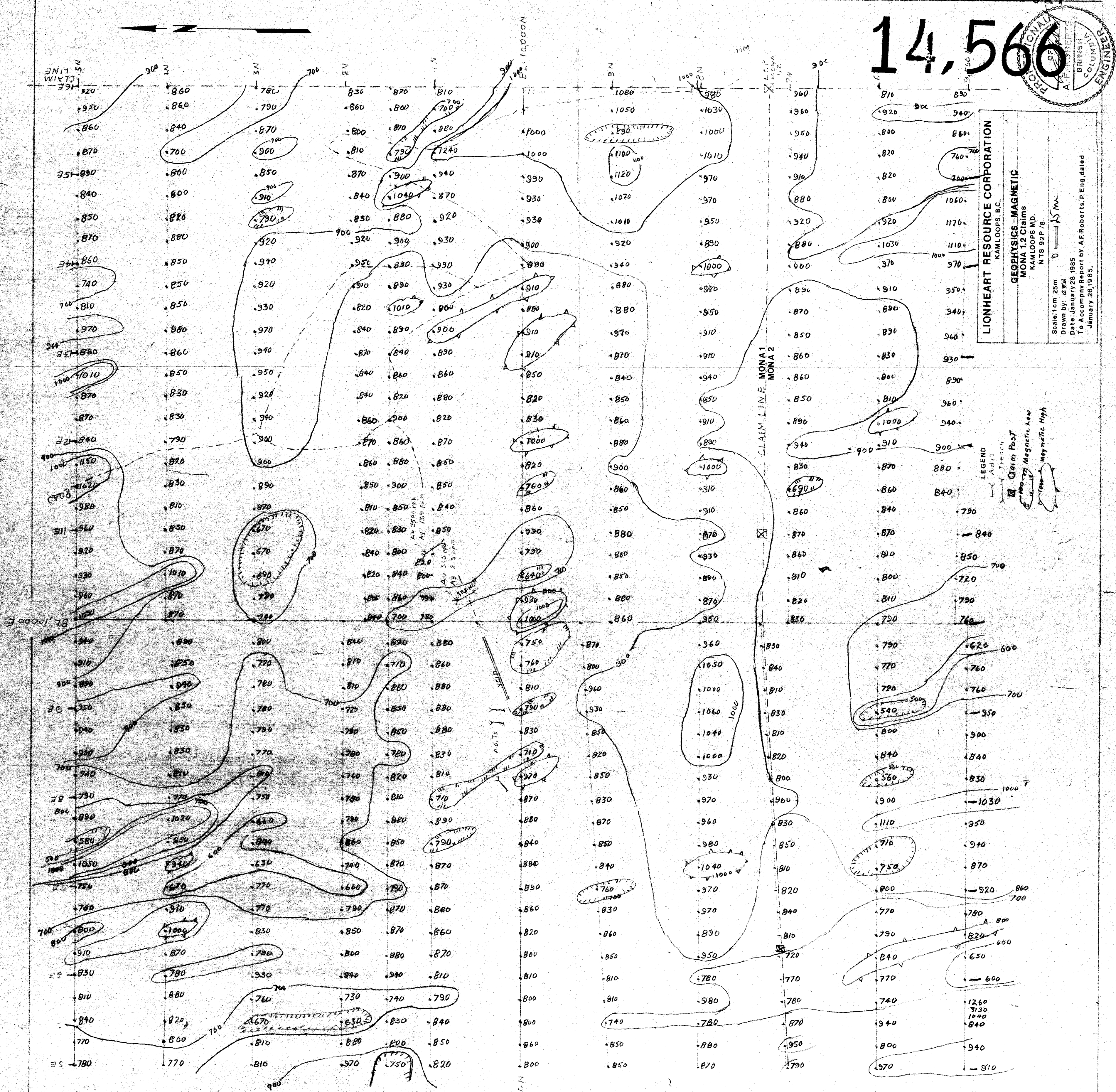
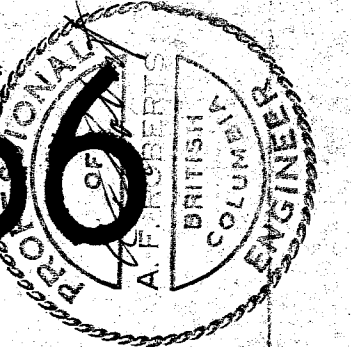
LIONHEART RESOURCE CORPORATION
 KAMLOOPS, B.C.
GEOPHYSICS - VLF-EM
 MONA 1.2 Claims
 KAMLOOPS M.D.
 NTS 92P/8
 Scale: 1cm = 25m
 Drawn by: [Signature]
 Date: January 28, 1985
 To Accompany Report by A.F. Roberts, P. Eng, dated
 January 28, 1985.

14,566

PROFESSIONAL
 PROVINCE OF
 BRITISH COLUMBIA
 A. F. ROBERTS
 ENGINEER

GEOLOGICAL BRANCH
 ASSESSMENT REPORT

14,566

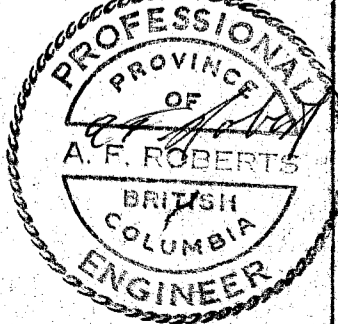


LIONHEART RESOURCE CORPORATION
KAMLOOPS, B.C.
GEOPHYSICS - MAGNETIC
MONA 1,2 Claims
KAMLOOPS M.D.
NTS 92P/8

Scale: 1 cm = 25 m
Drawn by: [Signature]
Date: January 28, 1985
To Accompany Report by A.F. Roberts, P. Eng. dated
January 28, 1985.

LEGEND
Trench
Claim Post
Magnetic Low
Magnetic High

14,566



LIONHEART RESOURCE CORPORATION
KAMLOOPS, B.C.

GEOCHEMISTRY-GOLD

MONA 1,2 Claims
KAMLOOPS, M.D.
NTS 92P/B

Scale: 1cm 25m
Drawn by: *ATM*
Date: January 28 1985
To Accompany Report by A.F. Roberts, P.Eng. dated January 28, 1985.

- LEGEND**
- Adit
 - Trench
 - Threshold
 - Au ppb Anomalous
 - NS No sample
 - Claim Post

