82-175-10244

ASSESSMENT REPORT

ON

DETAILED GEOCHEMICAL SOIL SURVEYS AT SELECTED LOCATIONS

ON THE

IDA 2 and 4 CLAIMS

RECORD NOS. 2516 AND 2518 (4)

MOUNT IDA-SALMON ARM AREA

KAMLOOPS MINING DIVISION

N. Lat. 50°40'

W. Long. 119⁰15'

82-L-11E/W

for

WARE RESOURCES LTD. Suite 311-543 Granville Street Vancouver, British Columbia



March 11, 1982

West Vancouver, B.C.

DON TULLY ENGINEERING LTD. SUITE 102-2222 BELLEVUE AVENUE WEST VANCOUVER, BRITISH COLUMBIA V7V 1C7

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INTRODUCTION

This assessment report was prepared pursuant to a request by Ware Resources Ltd., Suite 311, 543 Granville Street, Vancouver, British Columbia.

The purpose of this report is to review the results of detailed geochemical surveys done in the 1981 program of geochemical soil sampling over selected areas of the ARM-IDA claim group.

A further program of mineral exploration is recommended.

SUMMARY AND CONCLUSIONS

The ARM-IDA property is a gold-silver and basemetal prospect. There are indications platinum may be present in the claim area.

The ARM-IDA claim group consists of six mineral claims comprising 112 units covering an area of 2,800 hectares located immediately south of the Town of Salmon Arm, British Columbia. Motor vehicle access is available over portions of the property using a four-wheel drive vehicle.

The history of the property dates back to the early 1900's when carrying high-grade silver values, boulders were discovered a short distance south of Salmon Arm. The Mount Ida group of mineral claims were later developed intermittently around the years 1905, 1913-14, 1926 and 1930. Since that time the property appears to have been idle, according to the record. Exploration work on the former claims consisted of underground crosscutting and drifting, mostly on the Everglade claim of the former Mount Ida group. The location of the mineral showing is not clear

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but several gold-silver, galena and sphalerite occurrences in quartz-filled shear zones are indicated in the record. The precious metal, platinum, is of interest and is mentioned at three different claim locations, the Everglade, White Cliff and the Mountain View, by separate authors. However, ultrabasic rock is not mentioned in the literature covering the claim area.

A geochemical soil sampling survey was done over the claim area in July, 1980. The results of this work showed anomalous values for silver, lead and zinc in the northeast and east-central sectors of the property.

Detailed geochemical soil sample surveys were done over eight selected areas during the period November 17 thru December 5th, 1981 by Strato Geological. The results of this work showed anomalous zones of zinc in the north central area of the IDA 2 claim area.

It is concluded the ARM-IDA mineral claim group area is underexplored and appears to be an excellent exploration bet in a favourable geological environment which warrants a further program of exploration to develop mineral targets.

PROPERTY - LOCATION, ACCESS, PHYSIOGRAPHY

The property is located in the Salmon Arm District Municipality about 500 metres south of the Town of Salmon Arm, Kamloops Division of the Yale Land District in the Kamloops Mining Division. Highway #1 traverses the northwest and northeast corners of the claim area (Figure 2).

The property comprises six mineral claims, namely the ARM #1 and #2, and the IDA #1 - #4 inclusive. The



six claims contain 112 units and the total area is 2,800 hectares.

The topography over the claim area is relatively steep and varies between 2,000 and 5,000 feet above sealevel. Trails occur over the northern and southern sectors of the property area and require four-wheel drive vehicle transport (Figure 2).

Most of the claim area is covered with forest.

CLAIMS

The ARM and IDA mineral claims are recorded with the British Columbia Ministry of Energy, Mines and Petroleum Resources at Kamloops, British Columbia as follows:

| <u>Claim Name</u> | <u>Units</u> | Record No. | <u>Record Date</u> | <u>Recorded Holder</u> |
|-------------------|--------------|------------|--------------------|------------------------|
| ARM #1 | 20 | 2513 | April 8, 1980 | Ware Resources Ltd. |
| arm #2 | 12 | 2514 | April 8, 1980 | Ware Resources Ltd. |
| IDA #1 | 20 | 2515 | April 8, 1980 | Ware Resources Ltd. |
| IDA #2 | 20 | 2516 | April 8, 1980 | Ware Resources Ltd. |
| IDA #3 | 20 | 2517 | April 8, 198D | Ware Resources Ltd. |
| IDA #4 | _20 | 2518 | April 8, 1980 | Ware Resources Ltd. |
| | 112 | | | |
| | | | | |

The ARM and IDA mineral claims are believed to be contiguous and are shown on British Columbia Mineral Claim Maps M82-L-11E and 11W. Portions of ARM #2 and IDA #2 are under mineral reserve to the Salmon Arm-Enderby Proposed Transmission Line. The ARM #1 claim is in apparent contravention of a prior claim located astride Leonard

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and Hobson Creeks in the northwest part of the claim area (Figure 3). A survey of the perimeter of the claim area is recommended to establish the property boundary and the respective relationship to any surface rights particularly along the north and east sectors of the claimed ground.

HISTORY - PREVIOUS DEVELOPMENT AND MINERALIZATION

In 1904, a Mr. F.A. McLeod staked the Mount Ida mineral claim over highgrade silver boulders found some four miles (7 km) south of Salmon Arm on the northwest slope of Mount Ida. This event is described in the Minister of Mines report for the year 1905. This find was indicated to have come from a vein located at right angles to a stream bed and was reported tested by several crosscuts for a length of 38 feet. In 1913, the Mount Ida claim group was reported to consist of five mineral claims namely, the Everglade, Excelsior, Leah Rose, Alida and Eva. These claims were indicated to be located some 1,000 feet above Shuswap Lake and some five miles (8 km) south of the Town of Salmon Arm. It is the writer's opinion this description places the location of these claims in the area of the present IDA #4 mineral claim. The following is a resume of the development of the Mount IDA claim group at that time by W.M. Brewer:

" The rock formation in the immediate vicinity belongs to the rock classed by Dr. Dawson as the "Shuswap Series", made up of mica-schist, grey gneiss, crystalline limestone and quartzites. In this occurs a system of parallel ore-bodies, from 18 inches to

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7 feet wide, composed of galena in a quartz gangue;
these appear sometimes to be contact deposits between the micaceous schist and quartzite, and at other places between the schist and marble. The strike of these generally is approximately northeast, and dip from an angle of 65 degrees to almost vertical towards the south-east.

All the development-work has been performed on the Everglade mineral claim, and consists of 346 feet of underground work, as follows: Upper adit 130 feet long, at an elevation of about 1,000 feet above the lake; this crosscuts the mica-schist formation for about 100 feet, then a seam of quartz between 6 and 7 feet wide carrying quite an appreciable percentage of galena, then limestone forming the From this point a drift has been run, footwall. but, owing to caving of the roof from slacking, this could not be closely examined; however, I was able to take a sample from the face typical of the orebody, but not intended to represent an average of the entire ore-body as it would be mined. This sample assays: Gold, trace; Silver, 7 oz per ton.

A lower adit has been driven 230 feet with the intention of driving under the upper adit, at a vertical depth below it of about 260 feet, but has not yet been driven sufficiently far to reach the point aimed at. Near the face of this adit the water that percolates through the strata and cleavage-planes of the country-rock is blood-red, evidently from iron stains, and there is also a considerable quantity of ironpyrites disseminated through portions of the rock,

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" apparently indicating that a mineralized zone might be looked for as the work progressed. At the portal of this adit a body of quartz carrying some galena was exposed, but this had the appearance of having been broken off and having slipped from a higher elevation. 6

An ore-body outcrops at a point about 50 feet vertically above the upper adit, where a shaft was sunk 16 feet deep, in which is exposed a quartz vein, 18 inches wide, carrying galena; it is apparently wider on the north-east side of the shaft than on the southwest side. It is doubtful whether this is the same orebody as is exposed in the upper adit, although it may be.

Two other outcroppings of the same character of ore occur, one at about 100 feet lower elevation than the shaft referred to, and another about 60 feet still lower down the mountain, but a short distance north of a direct line between the two last mentioned. On the first of these a shallow open-cut has been made while on the last named there is an open-cut and shaft; this has been sunk about 15 feet deep below the bottom of the cut, in which is exposed an ore-body about 3 feet wide of quartz carrying galena. "

Mr. W.F. Ferrier, reporting for the Munitions Resources Commission, Canada, in the final report dated 1920, indicated the presence of platinum at Mt. Ida. Mr. Ferrier reported the first claim sampled was the White Cliff claim on the northeast slope of Mt. Ida at an

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elevation of about 3,150 feet. This elevation does not agree with that of Mr. W.M. Brewer in his report of 1913 but the description of the workings is somewhat similar. Ferrier obtained two samples, from what he has indicated may be the Everglade claim, that assayed as follows:

| Sample No. | <u>Claim</u> | Description | Gold <u>Dz/Ton</u> | Pt <u>Oz/Ton</u> |
|------------|---------------|--|-----------------------|---------------------|
| 5 | Everglade (?) | Miller Tunnel width 4.75 ft. Across face | 0,24 | 0,02 |
| 6 | Everglade (?) | Miller Tunnel Mineral streak in face l½ in- ches wide | 0.14 | 0,03 |

O'Neill and Gunning, in a report contained in the Geological Survey of Canada Economic Series No. 13 on page 103, referred to the investigations by Mr. Ferrier and also reported that samples taken from the Mountain View Claim across widths of 8.5 feet and 2.5 feet, respectively, assayed 0.20 and 0.02 ounces of platinum. Sheared zones carrying quartz stringers with attendant sphalerite, galena, chalcopyrite and pyrite were also noted and the sample results from the shears were said to carry small amounts of platinum and interesting amounts of gold.

In 1926, the Bonnie Brae group of four claims were reported on by the Minister of Mines for that year. This group was said to be located on the north slope of Mount Ida about 1,500 feet above the valley of the Salmon River (1,200 feet) apparently in the area of Hobson Creek near the common boundary of ARM #1 and IDA #1 mineral

claims. The description given is as follows:

" The mineral occurrences on this group are represent-· ed by extensive bodies of quartz, containing pyrite and some blende and galena carrying silver values and a little gold. This quartz occurs in zones of shearing and fracturing in impure quartzites and schists, traversed by dykes of feldspar porphyry. A number of open-cuts strung out in a general direction of N 60° E (mag.) exposes a series of these quartz-bodies varying up to 6 feet in width, which appear to lie within a dominant zone of fracturing. The most north-easterly of these open-cut exposures lies at a vertical distance of about 250 feet above the bed of Hobs creek (locally known as Hobson creek), which follows an oblique course down the slope of the mountain in a northwesterly direction. From a point on the steep bank of this creek, lying almost due north from the outcrop above mentioned, a tunnel has been driven for a distance of about 70 feet in a general southerly direction, following the course of a porphyry dyke which lies on the western side of a zone of shearing, having a dip of about 50° to the north-east. The ground in the neighbourhood of the dyke is much disturbed and the width of the zone cannot be stated definitely; a characteristic feature is the inclusion of bodies of quartz, one of which is also exposed in the bed of the creek about 50 feet farther to the east, indicating a width of about 50 feet farther to the east, indicating a width of about 50 or 60 feet for the zone. The new work above referred to was done on the Foothill in a canyon of the same creek at a distance of approximately three-quarters of a mile to the north-west of

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" the upper workings of the Bonnie Brae group and - about 1,200 feet below them. A zone of shearing in the same schist and quartzite formation is exposed in open-cut workings at a sharp bend of the creek. This zone has a north-westerly strike and a dip of about 50° to the north-east, and the inclusion of quartz associated with a considerable amount of pyrite is in all respects similar to that found in the upper workings. It is indicated that the two sets of workings are on the same zone of shearing, which is in all probability responsible for the direction taken by the creek in its oblique course across the hillside occupied by a hard quartzite formation.

In these lower workings there is also a considerable amount of massive pyrrhotite on the footwall side of the zone, and this is not without significance, occurring as it does at the lowest point at which this apparently persistent shear has been exposed. The upper line of outcrops above referred to, following a north-easterly direction, appear to occupy fractures in a greatly disturbed section of the formation intersected by the porphyry dykes, and all these occurrences are to be referred probably to a main source of mineralization along the shear zone. The whole base of Mount Ida is underlain by granite, and it is in this connection that the occurrence of heavy sulphide mineralization in the lower workings is held to afford some encouragement for further development along the line of shearing in the overlying quartzite. The following samples were taken:

" A picked sample of quartz from the face of the 70foot tunnel: Gold, trace; silver, 12 oz to the ton. Quartz from Foothill: Gold, trace; silver; trace. Quartz on hanging-wall of shear in 70-foot tunnel: Gold, trace; silver, 0.6 oz to the ton. Quartz from upper open-cuts in crossfractures: Gold, trace; silver, 6 oz to the ton. Pyrrhotite from Foothill: Gold, trace; silver, trace; zinc, trace.

Sunset:

This group of eight claims is situated on Mount Ida, near Salmon Arm. Two main veins occur on the property; the lower vein was developed to some extent several years ago and carried values in silver and lead. The upper vein has been reported to carry values in gold and platinum, but no further information is available in regard to this occurrence than was furnished in the account given by W.F. Ferrier and published in the Final Report of the Munition Resources Commission in the year 1920.

The property is now owned by Sunset Mines, Limited, with head office in Salmon Arm, and it is understood that further work is to be commenced during the coming year. "

A geochemical soil sampling survey was carried out over the ARM 1, 2 and IDA 1, 2, 3, 4 claim area in July 1980. An underground tunnel was re-opened in August-September, 1980.

In November, 1981 a program of detailed geochemical soil sampling was carried out over eight selected areas on the IDA 2 and 4 claim areas.

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REFERENCES

Information in the following publications is considered to be pertinent to the ground covered by ARM - IDA claim area:

British Columbia Minister of Mines Reports for the years 1905 - pp. 232-233G 1913 - pp. 198-199K (1914) 1926 - p. 188 1930 - p. 183-184

Munitions Resources Commission - Final Report, 1920 (on file with the Geological Survey of Canada) pp. 183, 184, 185, by W.F. Ferrier

Geological Survey of Canada Economic Geology Series 13 - pp. 79, 103 Preliminary paper 48-4 with Map Memoir 296 - pp. 142, 148, 150, 155 Aeromagnetic Map 8514G

- Report on the ARM #1, 2- IDA #1, 2, 3, 4 claim group, MT. IDA-SALMON ARM AREA, dated April 25, 1980 by Donald W. Tully, P. Eng.
- Report on a Geochemical Soil Survey on the ARM #1, 2 -IDA #1, 2, 3, 4 Claim Group, Mount Ida - Salmon Arm Area by Donald W. Tully, P.Eng., and dated October 17, 1980.

REGIONAL AND LOCAL GEOLOGICAL SETTING

According to Geological Survey of Canada Map 1059A (Vernon Area) the claim group is underlain by five distinct lithological units, which are the Silver Creek, Mara and Sicamous formations intruded by the Coast Intrusions of acidic rocks and overlain by the Kamloops Group of Tertiary basaltic lavas.

A tentative geologic timetable is as follows:

| Formation | Description/Event | Age |
|---|---|-----------------|
| Sand, gravel, loam deposits | Unconsolidated | Quaternary |
| | (Erosional uncon- formity) | |
| Mineralization and attendant quartz veining | Silver, gold, (platinum ?) and associated sulphides of, lead, zinc and iron | (Tertiary ?) |
| | (Tectonic activity) | |
| Kamloops Group of volcanics | Basaltic lavas | (Miocene ?) |
| (| (Tectonic activity) | |
| Coast Intrusions | Granite, granodiorite | Jura-Cretaceous |
| | (Erosional unconformity and tectonic activity over several eons of time) | |
| Sicamous Formation (Shuswap Terrane) | Limestone and several schist facies | (Proterozoic ?) |
| Mara Formation | Calcareous and pelitic sediments and schist facies | (Proterozoic ?) |
| Silver Creek Formation | Quartz-sericite-biotite schist facies with cal- careous horizons | (Proterozoic ?) |

Structurally, the lineal elements of fracturing and schistosity trend both northeast and northwest. The northeast schistosity trend appears dominant in the earlier underlying schist facies of the Shuswap Terrane Complex while the northwest trend of fracturing is evident in the later lithological units (Figure 4).

Two north-northwest striking fault zones are shown traversing the claim area suggesting a fault contact between the Silver Creek, Mara and Sicamous formational units. A major through-going fault zone trends northwesterly along the area of Hwy 97B between Salmon Arm and Enderby just east of the claim area (Figure 4).

A sizeable aeromagnetic "Low" occurs in the area of IDA #3 claim and a study of Geological Survey of Canada Aeromagnetic Map 8514G suggests both northeast and northwest bedrock structural trends are reflected over the claim area.

The trend of the mineralization from the geochemical soil sample results appears to be generally north-south.

RESULTS OF THE 1981 GEOCHEMICAL SOIL SURVEY PROGRAM Samples Faken with grubker from B horizon 30 cm dup

The period of the field survey was November 17 thru December 5, 1981. The field work was carried out by Strato Geological Engineering Ltd., Suite 103, 709 Dunsmuir Street, Vancouver, B.C.

Detailed geochemical soil surveys were carried out over eight selected areas on the IDA 2 and 4 claims as shown on Figures 5, 6, 7, 8, 9, 10, 11, 12 and 13 accompanying this report. According to officials of Strato Geological Engineering Ltd., east-west control lines were established over each of the areas sampled, namely "A", "B", "D", "E", "F", "H" and "I", and geochemical soil samples taken at each 50-metre interval along the controlling lines. The writer did not examine the work in the field.

Anomalous zones of zinc, lead and silver were found on areas "A" and "I" and may be part of a northtrending zone through both these locations (Figures 6 and 12). Smaller anomalous zones that tend to have definite limits were noted on areas "D", "F" and "H" (Figures 8, 10 and 11).

A total of 303 soil samples was taken and analyzed for silver, lead and zinc. The assays are plotted on Figures 6, 7, 8, 9, 10, 11, 12 and 13. A study of the results of the analyses shows:

| Zinc | <u>No. of Samples</u> | Range of Results |
|------|-----------------------|------------------|
| | 182 | 0 - 200 ppm |
| | 87 | 201 - 400 ppm |
| | 24 | 401 - 600 ppm |
| | 10 | 600 + ppm |

The highest value found in zinc was 1,250 ppm.

Values in zinc above 400 parts per million are considered to be anomalous.

Values in zinc occur in the northeast portion of area "A" (Figure 6). Values in lead and silver tend to accompany the values in zinc which trend in a northeast direction. Some 350 metres to the north and east area "I" (Figure 12) is located. Values in zinc and lead are also found in anomalous amounts in area "I" and may be part of a north-northeast trending zone in this area extending southward towards area "J" (Figure 13).

Further detailed geochemical soil sampling is recommended in the area between areas "A" and "I" (See Figure 5) and also to the north of area "I".

The trend appears to be generally north-south and may extend in to area "J" (See Figure 13).

| No. of Samples | Range of Results |
|----------------|------------------|
| 246 | 0 - 20 ppm |
| 49 | 21 - 40 ppm |
| 8 | 41 + ppm |

The highest value in lead was found to be 139 parts per million.

Lead

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Values in lead above 40 ppm are considered to be anomalous.

Anomalous values in lead tend to accompany values in zinc as noted on areas "A", "D", "F" and "I" (Figures 6, 8, 10 and 12).

| Silver | <u>No. of Samples</u> | Range of Results |
|--------|-----------------------|------------------|
| | 260 | 0.0 - 0.5 ppm |
| | 23 | 0.6 - 1.0 ppm |
| | 20 | l.l+ ppm |

The highest value in silver was 4.6 parts per million (Figure 13).

Values in silver above 1.0 ppm are considered to be anomalous.

Anomalous values in silver tend to accompany the values in zinc and lead as noted on areas "A", "D", "F", "I" and "J" (Figures 6, 8, 10, 12 and 13).

The strongest group of anomalous silver values occurs in area "A".

RECOMMENDATIONS

A survey of the perimeter of the ARM and IDA claims is proposed to protect the title to the property.

Further detailed geochemical soil sampling is recommended for the claim area between areas "A" and "I" (see Figure 5) and to the area immediately north of area "I".

Contingent upon the results of further geochemical soil sampling of the claim area, between the detailed areas "A" and "I" anomalies, it is recommended that a diamond drill_test be performed in this anomalous zone as indicated in Phases 2 and 3 of my report dated October 17, 1980.

Respectfully submitted,

Donald W. Lilly

Donald W. Tully, P. Eng.

March 11, 1982



STRATO GEOLOGICAL ENGINEERING LTD. 103-709 DUNSMUIR STREET VANCOUVER, BRITISH COLUMBIA V6C 1M9

March 24, 1982.

COST STATEMENT:

RE: ARM 1 , 2 , IDA 1, 2, 3, 4. 2513 to 2518 (04) rec. nos. Kamloops Mining Division

PERIOD OF WORK NOV. 17 TO DEC. 5, 1981.

| Labour | 5850,00 |
|------------|--------------|
| Room & Bd. | 1232,49 |
| Transport. | 1595,23 |
| Drafting | 1090,52 |
| Assaying | 1145.34 |
| Supplies | 913,63 |
| Engineerin | g 1255,16 |
| Total | \$ 13,082.37 |
| | |

SIGNED ,

STRATO GEOLOGICAL ENGINEERING LTD.

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UNO LEIS - V.P. OPERATIONS

GERTIFICATE

I, DONALD WILLIAM TULLY, of the City of West Vancouver, Province of British Columbia, hereby certify as follows:

- 1) I am a Consulting Geologist with an office at Suite 102, 2222 Bellevue Avenue, West Vancouver, B.C.
- 2) I am a registered Professional Engineer of the Provinces of British Columbia and Ontario.
- 3) I graduated with a degree of Bachelor of Science, Honours Geology, from McGill University in 1943.
- 4) I have practiced my profession for thirty-six years.
- 5) I have no direct, indirect or contingent interest in the securities of Ware Resources Ltd. or the ARM 1, 2
 - IDA 1, 2, 3, 4 mineral claim group, subject of this report, nor do I intend to have any interest.
- 6) This report dated March 11, 1982, is based on personal field examinations I made on July 28, 1980 and from information gathered from available maps, reports and personal communications. I have not examined the 1981 program of geochemical soil sampling in the field.
- 7) I have not consulted on any claims within ten kilometres of the ARM and IDA claim group during the past five years.
- 8) Written permission is required from the author to publish this report dated March 11, 1982 in any Prospectus or Statement of Material Facts.

DATED at West Vancouver, Province of British Columbia, this 17th day of March, 1982.

Donald W. Luly

DONALD W. TULLY, P. ENG., Consulting Geologist

Mr. Steve Mowar was the field supervisor with 3 years experience. A.

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APPENDIX

DON TULLY ENGINEERING LTD. BUITE 102-2222 BELLEVUE AVENUE WEST VANCOUVER, BRITISH COLUMBIA V7V 1C7

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6 phone:253 - 3158



To: Strato Geological Ltd., 103 - 709 Dunsmuir St., Vancouver, B.C. V6C 1M9

File No. 81-1923

Type of Samples ______

Disposition.

Arm Project 1 S AMPLE No. Pb* Zn Aq I DA 9 6 Ε 9 Ν 222 .2 1 2 6+50 9 .1 213 3 7 4 91 .1 7+50 9 .2 4 387 9 5 8 333 1.7 6 8+50 422 23 .4 9 7 591 .1 7 I DA 9 9+50E 9 112 .3 8 9 I DA 9+50N 10 6 Ε 6 .2 139 .2 6 + 506 11 159 .7 8 75 12 .1 7+50. 12 13 261 .4 14 8 17 368 .9 8 + 5015 119 719 1.7 9 20 1157 16 .5 I DA 9+50N 9+50E 15 606 .6 17 18 -1 VIDA-B 2 S 21+50E 19 10 84 , 2 20 21+755 48 .1 22 13 93 .2 21 22 22+25 11 47 .1 23 IDA-B 2 S 22+50E 7 25 .1 24 25 IDA-B 2+25S 21+50E 12 64 .1 21+7511 44 26 .1 27 22 5 19 .2 28 22+2512 59 .2 IDA-B 2+25S 22+50E 9 29 55 .1 30 IDA-B 2+50S 21+50E .2 31 6 58 21+7526 .2 32 64 33 22 21 74 .2 22+2534 35 .2 7 35 IDA-B 2+50S 22+50E 15 89 .1 36 37 IDA-B 2+75S 21+50E 11 63 .1 21+7538 10 66 .1 IDA-B 2+75S 22 39 Ē 9 33 .1 40 Dec. 11, 1981 All reports are the confidencial property of clients DATE SAMPLES RECEIVED. All results are in PPM. Jan. 13, 1982 DATE REPORTS MAILED DIGESTION: ASSAYER DETERMINATION:..... *======= DEAN TOYE, B.Sc. CHIEF CHEMIST CERTIFIED B.C. ASSAYER

GEOCHEMICAL ASSAY CERTIFICATE

Assaying & Trace Analysis

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

phone:253 - 3158

File No. 81-1923

GEOCHEMICAL ASSAY CERTIFICATE

Type of Samples _____ Disposition_____

| 2 | SAMPLE No. | РЬ* | Zn | Aq | <u> </u> | | | | | | Ţ | | | | |
|---|---|--|---|--|---------------------------|---------------------------|----------|---------------|---|--------------------------|----------------------------|----------|---|--------|--|
| | IDA-B 2+75S 22+2 IDA-B 2+75S 22+5 | L 5E 8 0F 23 | 48 | .1. | <u> </u> |] | <u> </u> | I | ļ | | <u> </u> | <u> </u> | | | 1 |
| | IDA-B 3 S_21+5(21+7) 22 22+2! IDA-B 3 S 22+5(| DE. 7 5 11 17 5 17 DE 32 | 43 35 44 54 87 | .1 .2 .1 .1 | - | | | · · · · | - · · · · · · · · · · · · · · · · · · · | - | • | , | | | 3 4 5 6 7 8 |
| C | IDA-D 2 N 1+50 1+75 2+25 2+50 2+75 3 3+25 3+50 3+75 IDA-D 2 N 4 | DE 9 5 13 5 13 5 13 5 13 5 7 8 5 10 5 7 8 5 10 5 7 8 5 10 5 7 8 5 7 8 5 10 5 7 8 5 10 5 7 7 8 5 10 5 7 7 8 5 7 7 8 7 7 8 5 7 7 8 8 5 7 7 8 5 7 7 8 8 5 7 7 8 8 5 7 7 8 8 5 7 7 8 8 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 | 106 269 294 451 113 97 65 60 39 46 64 | .1. .2 .3. .6 .1 .1 .1 .1 .1 .1 .1 | • • • | | - | | ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; | | | | | • • | 9 10 11 12 13 14 15 16 17 18 19 20 |
| | IDA-D 2+25N 1+50 1+75 2 2+25 2+50 2+75 3 3+25 3+50 3+75 IDA-D 2+25N 4 | DE 6 5 18 38 5 8 0 8 5 4 15 5 6 15 5 6 0 9 5 7 E 9 | 125 198 462 942 221 83 70 77 55 43 67 | .1 .7 3.4 .3 .1 .1 .1 .1 .1 .1 .1 | · | - | | • , | | | - | | • | | 21 22 23 24 25 26 27 28 29 30 31 32 |
| | IDA-D 2+50N 1+50 1+75 2 2+25 2+50 2+75 IDA-D 2+50N 3 | DE 9 5 14 5 5 5 5 0 139 5 10 E 7 | 226 166 237 137 560 87 93 | .2 .6 .7 .1 .1 .1 | | - | | | - | | | | | | 33 34 35 36 37 38 39 40 |
| С | All reports are the co All results are in PPM DIGESTION: DETERMINATION: | | | I I A | DATE S DATE R ASSAY | AMPL EPOR ER === | ES RECI | | Dec. Jan, Jan, Mell E, B.Sc. | <u>11.</u> <u>13,</u> | <u>1981</u> <u>1982</u> | | | | |



To: Strato Geological Ltd.,



ACME ANALYTICAL LABORATORIES LTD. Assaying & Trace Analysis

To: Strato Geological Ltd.,



phone:253 - 3158

File No. 81-1923

GEOCHEMICAL ASSAY CERTIFICATE

Type of Samples _____ Disposition_____

| S AMPLE | No. | Pb* | Zn | Ag | | | Ī | | | | | - <u> </u> | | |
|---|--|--|---|---|------------|---|---|---------------------------------------|----------------------------|--|-------------------------------------|---|---------------------------------------|--|
| IDA-D 2+50N IDA-D 2+50N | 3+25E 3+50 3+75 4 E | 9 14 8 7 | 57 63 53 44 | .1 [.] .1 .1 .1 | | I | J | | | <u>. </u> | - | -! | | 1 2 3 4 |
| IDA-D 2+75N IDA-D 2+75N | 1+50E 1+75 2 2+25 2+50 2+75 3 3+25 3+50 3+75 4 E | 23 25 21 23 24 11 7 10 7 8 10 | 232 172 292 206 144 60 77 76 50 55 55 | .3. .5 .6 .2 .1 .1 .1 .1 .1 .1 | • • | | | , , , | | | · · · · · · · · · · · · · · · · · · | - - - - - - - - - - - - - - - | · · · · · · · · · · · · · · · · · · · | 5 6 7 8 9 10 11 12 13 14 15 16 |
| IDA-D3N IDA-D3 N | 1+50E 1+75 2 2+25 2+50 2+75 3 2+75 3+25 3+50 3+75 4 E | 15 12 11 10 9 10 12 9 - 10 10 10 10 | 264 169 133 134 83 91 114 59 40 41 85 | ··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· | · · · · | | | · · · · · · · · · · · · · · · · · · · | | | | - | · · · · · · · · · · · · · · · · · · · | 10 17 18 19 20 21 22 23 24 25 26 27 28 |
| IDA-E 4+50N IDA-E 4+50N | 3+50E 3+75 4 4+25 4+50E | 15 12 9 _8 12 | 52 147 93 164 164 | .1 .2 .1 .1 | - | | - | | - . | | - | | | 29 30 31 32 33 34 |
| IDA-E 4+75N IDA-E 4+75N | 3+50E 3+75 4 4+25 4+50E | 8 12 10 13 14 | 90 101 130 312 184 | .1 .1 .1 .1 .1 | | | | • | - 1 | | | | | 35 36 37 38 39 40 |
| All reports as All results an DIGESTION: DETERMINATI | e the con in PPM. ON: | fidencial pro | perty of | clients | | | | DATE DATE ASSA | SAMP REPOI YER == | LES RECE RTS MAIL DEAN CH GERTIF | | Dec. 1 lan, 1 Defea B.Sc. | <u>1, 198</u> <u>3, 198</u> | <u>1</u> |



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Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6 phone:253 - 3158

To: Strato Geological Ltd.,

81-1923

File No.

GEOCHEMICAL ASSAY CERTIFICATE

Type of Samples _____ Disposition _____

| 4 | SAMPLE No. | | Pb* | Zn | Ag | | | | | | T | | | | <u> </u> | |
|---|---|-------------------------------------|---------------------------------|----------------------------------|----------------------------------|---------------|--------------|-------|--|----------------------------|-------------|--------------------|-------------|---------------|-----------------------|----------------------------------|
| | IDA-E 5 N 3 | 3+50E 3+75 4 4+25 4+50E | 13 11 14 missing 13 | 44 90 80 170 | · .1 .1 1 | | 1 | | | | | | -4 | - | | 1 2 3 4 5 |
| | IDA-E 5+25N 3 4 IDA-E 5+25N 4 | 3+50E 3+75 1 1+25 1+50E | 12 13 10 10 11 | 60 95 90 125 86 | .1 .1 .1 .1 .2 | · · · · · · | · - · | | - - - - - - - | - - - - - - | | · · · · · | - | • • • • | | 6 7 8 9 10 11 |
| | IDA-E 5+50N 3 3 4 1DA-E 5+50N 4 | 3+50E 3+75 1 1+25 1+50E | 10 15 10 11 11 | 40 60 63 40 80 | ,1 ,1 ,1 ,1 ,1 | | | | : 1 | * - | | | | - | | 12 13 14 15 16 17 |
| С | IDA-F17 N2 2 3 1DA-F17 N3 | 2+50E 2+75 3 3+25 3+50E | 9 9 18 12 11 | 40 26 45 56 140 | .1 .1 .1 .1 .1 .1 | 1 | | | | | -; | | | | - - - - - | 18 19 20 21 22 23 |
| | IDA-F 17+25N 2 - 2 3 IDA-F 17+25N 3 | +50E +75 +25. +50E . | 10 11 16 17 11 | 80 134 240 360 . 70 | + .1 1 .5 .1 .1 | | · - · · | - | · · · | | | | • • •• • | - | | 24 25 26 27 28 29 |
| | IDA-F 17+50N 2 2 3 10A-F 17+50N 3 | +50E +75. +25 +50E | 12 18 60 25 15 | 45 280 - 515 660 260 | 1 - 1 1,6 .2 ' .2 | • - - - | - | | | • • • | · · · · · · | • • • •• • • | - | - | - | 30 31 32 33 34 35 |
| | IDA-F 17+75N 2- 2- 3 IDA-F 17+75N 3- | +50E +75 +25E | 12 36 33 20 | 50 270 540 530 | .1 .6 1.0 .1 | . , | | | ; | • | ; | | | | | 36 37 38 39 40 |
| Ċ | All reports are the confidencial property of clients All results are in PPM. DIGESTION: DETERMINATION: | | | | | | | | DATE SAMPLES RECEIVED Dec 11, 1981. DATE REPORTS MAILED Jan. 13, 1982 ASSAYER DEAN TOYE, B.Sc. CHIEF CHEMIST CERTIFIED B.C. ASSAYER | | | | | | | |

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phone:253 - 3158

File No. 81-1923

To: Strato Geological Ltd.,

Type of Samples

GEOCHEMICAL ASSAY CERTIFICATE

Disposition_

5 S AMPLE No. Pb* Zn Ag IDA-F 17+75N 3+50E 14 218 ,3 1 2 IDA-F 18 .1 _ N 2+50E 12 50 3 2+75 19 .5 270 4 1 3 15 230 .2 5 3+25 11 245 .2 6 IDA-F 18 _ N _ 3±50E 12 155 7 8 IDA-H 14+50N 21+50E 26 9 240 .4 21+75 20 100 3 10 22 34 ,2 190 11 22+25 24 130 2 12 IDA-H 14+50N 22+50E_ 30 .140 13 14 IDA-H 14+75N 21+50E . 25 ,2 340 15 1 21+7534 100 ,1 16 . 22 26 170 ,1 17 22+25 26 .90 .1 18 IDA-H 14+75N 22+50E 45 80 .1 19 20 IDA-H 15 N 21+50E 19 200 21 .1 21+7532 140 22 .1 22 28 110 23 .1 22+2514 50 .1 24 IDA-H 15 N 22+50E 20 85 .1 25 26 IDA-H 15+25N 21+50E 24 160 .1 27 19 28 . 21+7.5 . 115 .,1 22 15 80 29 .1 22+2525 135 . 1 30 IDA-H 15+25N 22+50E 20. 31 60. 32 IDA-H 15+50N 21+50E-14 225 ,1 33 21+75 18 140 34 .1 22 17 60 35 ,1 22+25 25 80 36 .1 IDA-H 15+50N 22+50E 25 80 .1 37 38 39 40 All reports are the confidencial property of clients DATE SAMPLES RECEIVED_<u>Dec.</u><u>11</u>, <u>1981</u> All results are in PPM. DATE REPORTS MAILED___Jan. 13, 1982 DIGESTION:..... ASSAYER DETERMINATION:..... -----DEAN TOYE, B Sc. CHIEF CHEMIST CERTIFIED B.C. ASEAYER

Assaying & Trace Analysis

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phone:253 - 3158



To: Strato Geological Ltd.,

File No. 81-1923

Type of Samples

GEOCHEMICAL ASSAY CERTIFICATE

Disposition_____

| б | SAMPLE No. | | РЬ* | Zn | Ag | | | | | T | | <u> </u> |]] |
|---------------|--|--------|--|---|--|--|------------|------------------------|----------------------------------|---|-------------------------------------|---------------|---|
| б ,., С | S AMPLE No. IDA-1 14N 5+50E. 6 - 6+50 - 7 7+50 - 8 8+50 9 - 9+50 - 10 - 10+50 - 11 - 12 12+50 - 13 - 12+50 - 13 - 13+50 - 14 IDA-1 15N 5+50E 6 6+50 - 7 - 7 - 7 - 7 - 50 - 8 8+50 9 - 9+50 - 10 - 10+50 - 11 - 11+50 - 12 - 12+50 - 13 - 13+50 - 14 - 10+50 - 12 - 12+50 - 13 - 13+50 - 14 - 10+50 - 12 - 12+50 - 12 - 12+50 - 13 - 12+50 - 12 - 12+50 - 12 - 12+50 - 13 - 12+50 - 12 - 12+50 - 12 - 12+50 - 13 - 12+50 - 14 - 10+50 - 14 - 10+50 - 12 - 12+50 - 13 - 12+50 - 13 - 12+50 - 13 - 12+50 - 14 - 10+50 - 14 - 10+50 - 12 - 12+50 - 13 - 12+50 - 14 - 10+50 - 14 - 10+50 - 12 - 12+50 - 13 - 12+50 - 14 - 10+50 - 14 - 10 - 15 - 5+50E - 6 - 6+50 - 7 - 7 - 7+50 - 8 - 8+50 - 9 - 9 - 9 - 7 - 7+50 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 | | Pb* 17 9 10 7 17 8 19 12 11 10 13 14 23 10 20 18 31 11 15 10 25 10 11 7 16 15 32 | Zn 190 290 80 110 225 400 410 390 195 340 110 250 660 445 410 460 415 305 345 250 170 50 335 135 540 | Ag .5 .2 .1 .1 .2 .1 .1 .1 .2 .1 .1 .1 .2 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 | | | | | | | | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 |
| \sim | - 9+50 10 10+50 11 11+50 12 12+50 13 13+50 14 IDA-1 15N 14+50E All reports are the co All results are in PPM DIGESTION: | nfiden | 15 16 10 13 20 22 18 -32 14 20 40 cial prop | 230 570 220 465 375 480 140 570 345 270 350 | 1.0 .5 .2 3.4 .8 .1 .1 1.1 .3 .7 .2 | | - 1 | DATE SAMP DATE REPO | LES RECE TES RECE RTS MAII | | ec. 11 an. 13 Olygen B.Sc. | <u>, 1981</u> | 29 30 31 32 33 34 35 36 37 38 39 40 |

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81-1923 File No.

To: Strato Geological Ltd.,

Type of Samples

GEOCHEMICAL ASSAY CERTIFICATE

Disposition_____

| 7- SAMPLE No. | Pb* Zn | Ag | | |
|--|--|--|--|--|
| IDA-1 16 N 5+50E 6 - 6+50 7 7+50 8 8+50 9 - 9+50 10 10+50 - 11 - 11+50 12 - 12+50 13 13+50 - 4 IDA-1 16 N 14+50E | 12 80 14 173 18 218 30 238 10 200 33 300 16 400 36 670 11 1080 15 450 27 600 13 375 17 210 13 205 14 260 12 160 14 140 37. | ,1 ,1 ,5 ,1 4,3 1,9 1,0 ,5 ,1 2,4 ,1 ,1 ,1 ,1 ,1 ,1 ,1 ,1 ,1 ,1 | | 1 2 3 4 5 5 6 7 8 7 10 11 12 13 14 15 16 17 18 19 |
| IDA-J 2 N 6+50E - 7 7+50 8 8+50 9 IDA-J 2 N 9+50E | 14 245 10 220 11 163 14 165 10 100 7 45 11 62 | .1 ,1 ,1 ,1 ,1 ,1 ,1 ,1 ,1 | | 20 21 22 23 24 25 6 27 |
| IDA-J 2+50N 6+50E 7 7+50 8 8+50 9 IDA-J 2+50N 9+50E | 21 270 13 382 20 275 15 145 8 120 12 165 14 120 | 1.1 .1 .1 .1 .1 .1 .1 .1 .1 | | 8 9 0 1 2 3 4 5 |
| IDA-J 3 N 6+50E 7 7+50 IDA-J 3 N 8 E | 25 353 20 480 11 400 10 125 | ,7 1,1 1,3 ,1 | 33 33 34 35 35 36 36 36 36 36 36 36 36 36 36 36 36 36 | 6 7 8 9 0 |
| All reports are the confiden All results are in PPM. DIGESTION: DETERMINATION: | cial property of | clients | DATE SAMPLES RECEIVED DEC. 11, 1981 DATE REPORTS MAILED Jan. 13, 1982 ASSAYER DEAN TOYE, B.Sc. CHIEF CHEMIST CERTIFIED B.C. ASSAYER | |

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To: Strato Geological Ltd.,

81-1923 File No.

ł

Type of Samples _____

GEOCHEMICAL ASSAY CERTIFICATE

| 8 | SAMPLE No. | Pb* Zn | Ag | | | | |
|---|---|--|--|------------|---------------------|---|--|
| | IDA-J 3 N 8+50E 9 IDA-J 3 N 9+50E | 12 140 9 170 13 95 | .1 .1 .1 | - 1 | I | | 1 2 3 |
| | IDA-J 3+50N 6+50E 7 7+50 8 - 8+50 9 9+50 IDA-J 3+50N 10E. | 20 370 21 285 19 420 15 310 13 60 15 110 11 55 23 100 | 4,6. 4 3 1 1 .1 .1 | | | | 4 5 6 7 8 9 10 11 12 |
| C | IDA-J 4 N 6+50E - 7 - 7 - 8 - 8 - 8+50 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 1DA-J 4 N 10 E | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | .1 .3 .1 .1 .1 .1 .1 | | - - · · - · 1 | - | 13 14 15 16 17 18 19 20 21 22 |
| | IDA-J 4+50N 6+50E 7 7+50 8 8+50 9 9+50 IDA-J 4+50N 10 E | 20 340 16 250 - 6 45 - 20 180 11 170 8 155 12 185 11 180 | .1 .2 .1 .1 .1 .1 .1 .1 .1 | · - · · | | | 22 23 24 25 26 27 28 29 30 21 |
| | IDA-J 5 N 6+50E 7 7+50 8 8+50 9 9+50 IDA-J 5 N 10 E | 11 245 14 280 15 170 13 235 9 180 11 170 11 395 14 130 | .2 .8 .4 .2 .2 .5 .3 | - - | | - | 31 32 33 34 35 36 37 38 39 40 |
| | All reports are the confiden All results are in PPM, DIGESTION: DETERMINATION: | cial property c | f clients | | | | DATE SAMPLES RECEIVED_DEC. 11, 1981 DATE REPORTS MAILED Jan. 13, 1982 ASSAYER DEAN TOYE, B Sc. CHIEF CHEMIST CERTIFIED B.C. ABSAYER |

Assaying & Trace Analysis

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phone:253 - 3158

File No. 81-1923

To: Strato Geological Ltd.,

Т

GEOCHEMICAL ASSAY CERTIFICATE

Type of Samples _____

Disposition_____

| 9 | SAMPLE No. | РЬ* | Zn | Ag | | |
|---------------|---|--|---|--|-----------------------------------|--|
| | 1DA-J 5+50N 6+50E 7 - 7+50 8 8+50 9 9+50 IDA-J 5+50N_10 E | 14 9 20 16 18 11 19 45 | 25 22 300 240 250 170 90 210 | 2 1 4 2 1.0 4 2. 1.0 | + | |
| \mathcal{C} | IDA-A 10 N 6 E | 17 11 14 24 30 29 50 16 14 11 14 21 50 30 50 | 305 185 160 380 410 250 570 1250 1250 1250 95 60 395 630 295 490 | .4 .2 .3 .5 1.0 1.1 1.1 1.1 .4 .2 .2 2.4 1.6 .8 .8 | | 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 |
| | | | · . | | · · · · · · · · · · · · · · · · · | 26 27 28 29 30 31 31 31 31 32 33 34 35 36 37 38 39 40 |
| | All reports are the confider All results are in PPM. DIGESTION: DETERMINATION: | ncial prop | Derty of | clients | | DATE SAMPLES RECEIVED_Dec. 11, 1981 DATE REPORTS MAILEDlan_13, 1982 ASSAYER DEAN TOYE, B Sc. CHIEF CHEMIST CERTIFIED B.C. ASSAYER |











=(N)

Zn (CONTOUR INTERVAL = 200 nom)

| | | INTERVAL | - 200 ppm / | | | | |
|---|-------------|----------|--|------------------|------------------------|--------------------|--|
| | Pb (CONTOUR | INTERVAL | = 20 ppm) | | | | |
| ter a second de la companya de la co | Ag (CONTOUR | INTERVAL | = 0.5 ppm) | | | | |
| Im | ML | | | | FIGURE | NO. 9 | |
| IL/A | Ph | | WARE | RESO | URCES LT | D. | |
| | <u></u> | | ARM 1-2 KAMLOOPS | 84 ID7 3 M.D. | AI-4 CLAIN NTS 82-L | ∕IS .~11 | |
| | Zn > | | DETAIL | ED GE PLAN | OCHEMICAL | | |
| 0 | 25 | 50 - | | AREA | "E" | | |
| | METERS | | TO ACCOMPANY A REPORT BY D.W. TULLY , P. ENG | | | | |
| Dere | ald bit he | dif | DATED: MAR. | 8,1982 | | • | |







. 15 Π. L 3+00 N 20-11. L 2+75 N -Zn đ L 2+50 N ЪЪ # 6 1 77 + 600 125 L 2+25 N 400 41 a 1 294 -5 1 269 ÷. L 2+00 N 1 97 ш ш ш ш ш ш ш ш ш ш ш 4+00 2+00 2+50 3+00 3+50 3+75 2+25 2+75 3+25 1+50 1+75 , I. -1 a -1 . 1 L 3+00 N . 0.5 .5 .3 .2 a U .1 L 2+75 N βĄ -1 .6 L 2+50 N .7 L 2+25 N Andrew States and .1 л.



