81 - 1225 - 10012

GEOPHYSICAL REPORT

ON A

MAGNETIC AND GEOCHEMICAL SURVEY

NOW CLAIM GROUP

OWEN LAKE AREA, OMINECA M.D., B.C.

NOW CLAIM GROUP

WRITTEN FOR

CONSULTANT

: 24 km South Southwest of Houston, B.C.

- : $54^{\circ} 126^{\circ} SW$
- : N.T.S. 93L/2E

: Mecca Minerals Ltd. 1102-207 West Hastings Street, Vancouver, B.C., V6B 1H7

: Customer Mining Services Ltd. 1102-207 West Hastings Street, Vancouver, B.C., V6B 1H7

: Toru Kikuchi, Ph.D., P.Eng. Consulting Geologist, 1374 Park Drive, Vancouver, B.C., Canada, V6P 2K6

DATE

BY

: December 31st, 1981



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Maps At End of Report			<u>No.</u>	of S	Sheets
Claim Location	1:	300,000	1	(Map	93L)
Claim location and Geology	1:	100,000	1	(No.	13A)
Maps in Pockets					
Magnetometer Survey					
Data and Contours					
Part l	1:	1500	1	(Now	1)
Part 2	1:	1500	1	(Now	2)
Claim Location and Geology	1:	5000	1	(Now	3)
Copper Assays	1:	2000	1	(Now	4)
Zinc Assays	1:	2000	1	(Now	5)
Lead Assays	1:	2000	1	(Now	6)

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SUMMARY

During the fall of 1981 a combined magnetometer and geochemical survey was completed on the Now (1-4) claims by Customer Mining Services of Vancouver, B.C. The Now (1-4) claims lie about 40 kilometers southwest of Houston, British Columbia, approximately 2.5 kilometers northeast of Owen Lake. The property is owned 100 percent by Mecca Minerals Ltd. of Vancouver, B.C. The claims can be reached by driving the 43 kilometer gravel road to Owen Lake, and then taking a 4 x 4 access trail (about 3 kilometers) to the claims. The property is found in the physiographic division known as the Nechako Plateau. The topography is generally rolling with forest covering most of the ground. The purpose of the present survey was to extend the geological knowledge of the Now claims and to aid in the location of future trenching and/or drilling targets.

Previous work on the property consists of soil sampling, magnetometer and electromagnetic surveys and a trenching program.

The property is mainly underlain by the Tip Top Hill volcanics - brown to maroon porphyritic andesite, thought to be Upper Cretaceous or Paleocene in age. Mineralization has been found in several of the trenches completed in the 1973 work program and/or subsequent trenching.

i.

The magnetometer readings were taken every 30 meters on 30 meter separated east-west lines. Approximately 60 kilometers of grid line was established, while magnetometer readings were taken over 36 kilometers of this grid. The magnetometer data was diurnally corrected, statistically analyzed, plotted and contoured. Soil samples were taken 30 meters apart on east-west lines separated 120 meters apart. These samples were assayed for copper, lead, zinc and silver.

CONCLUSIONS

1. The 1981 magnetometer survey has revealed several linear magnetic highs and lows that correspond to existing and proposed trenches. Several of these trenches contain sulphide mineralization. Other magnetic highs and lows found in the 1981 survey could be reflecting other areas of sulphide mineralization.

2. The geochemical soil sampling program for 1981 and subsequent analysis of selected samples indicate weak, moderate and highly anomalous lows and highs occur in the area investigated. The area selected was the land regional rock geochemistry done by the B.C. Department of Mines (Dr. Church) showed significant closure. The anomalous areas do not appear to be extensive. In some instances they occur "on top of each other" as to lows and highs for copper, lead and zinc. The spotty nature of some of the geochemistry may be due to the irregular overburden conditions, especially for the less mobile lead and silver ions. However, at the time the samples were taken the ground ("B" Horizon) was frozen in places. This too could explain the spotty nature of the results and more particularly the actual samples adequate for assay. It is highly likely the entire area measured into the 30 meter grid will be re-sampled using an augur in the spring of 1982 when the ground has thawed, provided funds are available.

RECOMMENDATIONS

Further magnetometer and soil sampling could be completed on the remaining portion of the established survey-grid not covered in the present survey. There is approximately 24 kilometers of grid-line which could be surveyed and sampled. Snow and winter conditions forced an ending to the present work program before this 24 kilometers of line could be completed. Geological mapping could also be carried out, with outcrops and Dr. Church's geochemical rock closures becoming tied into the 1981 grid-system.

However, these recommendations, as well as the work program discussed in this report, are all part of a multi-phased work-program outlined by Dr. Kikuchi (1981).

GEOPHYSICAL REPORT

ON A

MAGNETIC AND GEOCHEMICAL SURVEY NOW CLAIM GROUP

OWEN LAKE AREA, OMINECA M.D., B.C.

INTRODUCTION AND GENERAL REMARKS

This report discusses the survey method, data compilation and interpretation of results from magnetometer and geochemical surveys carried out over the Now claims located near Houston, B.C. All work carried out on the claims and discussed in this report was completed between September 15th and October 31st, 1981 by Customer Mining Services Ltd. of Vancouver, B.C. The work program was under the direction of James Parker, supervised by James Rutherford and followed those recommendations outlined by Dr. Kikuchi (1981). Approximately 60 kilometers of survey grid was established on the property, while the geophysical and geochemical covered about two thirds of this area.

The purpose of the magnetometer and geochemical surveys was to locate areas of possible sulphide mineralization and to aid in the geological knowledge of the property.

PROPERTY AND OWNERSHIP

The Now property includes the following four contiguous mineral claims:

<u>Claim Name</u>	Record No.	<u>No. of Units</u>
Now 1	2283	4 (2 x 2)
Now 2	2284	6 (2 x 3)
Now 3	2285	6 (2 x 3)
Now 4	2286	4 (2 x 2)

The property is owned 100 percent by Mecca Minerals Limited of Vancouver, British Columbia.

LOCATION AND ACCESS

The Now claims are located 40 kilometers southwest of Houston, British Columbia. They lie about 3.5 kilometers north of Bradina's Silver Queen Mine site. The claims can be reached by turning off Highway 16 at a point 3.2 kilometers west of Houston and then driving the 43 kilometers of gravel road to Owen Lake. From this point a 4 x 4 access trail, approximately 2.8 kilometers long, provides direct access to the claims.

The geographical location of the claim postcentral to the group (C.C.P.) is latitude 54^o 07', longititude 126^o 44'.

TOPOGRAPHY

The Now claims lie in the physiographic division known as the Nechako Plateau, between the Skeena and Fraser River systems. The topography is generally rolling, as slopes gently increase from Owen Lake, (elevation 750 meters), to Tip Top Hill, (elevation 1220 meters).

The property is well forested except for meadows on south facing slopes. Bedrock exposure is very poor, probably less than 10 percent of the total area and there are very few outcrops to be encountered.

HISTORY OF PREVIOUS WORK

Mineralization was discovered in the area in 1912, and prospecting activity has gone on in the area ever since. In 1965 serious large scale exploration was begun, leading to the production of Bradina Resources' Silver Queen Mine. This mine, no longer in operation, was located approximately 3 kilometers south of the Now claims.

Preliminary rock, soil and stream sampling was completed by Maharaja Minerals Ltd. on the property in 1972. The results of this program recommended that extensive geological, geochemical mapping and trenching be completed.

In 1973 Strato Geological completed a geological, EM and magnetometer survey over the property. Customer Mining

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Services Ltd. of Vancouver built a road to the property and dug 14 trenches totalling 450 meters in length.

In the fall of 1973 two diamond drill holes were attempted on the property, but to quote McAndrew (1976):

"There was considerable futility to the 1973 drilling program since the contractor could not achieve the objectives and the contract had to be terminated."

Selected results of past work programs on the property have been outlined on Claim location and Geology Map Now 3.

GEOLOGY

General

In 1973 Dr. B.N. Church of the British Columbia Department of Mines published several geological maps of the Owen Lake area. His map titled "Geology of the Buck Creek Area" shows the Now claims underlain by Tip Topp Hill volcanic rocks except for a small area of Okusyelda Porphyry in the southwest corner of the property. This intrusive is porphyritic or microporphyritic with 20 to 50 percent plagioclase phenocrysts and minor quartz biotite and hornblende in a finely granular quartz felspathic matrix. McAndrew (1974) correlates these intrusives with nearby pyroclastic rocks that underlie the Tip Top Hill volcanics in the Owen Lake area. He places the age of these intrusives at greater than 56.2 ∓ 3 million years. The most common volcanic rock type making up the Tip Topp Hill volcanics is a brown to maroon porphyritic andesite.

Local

The following discussion of the geology of the Now claims comes from McAndrew's 1974 report on the property.

"Some of the andesite flows noted on the claims are fine to medium grained and lack the porphyritic texture described above. There are numerous areas on the claims where flows of trachyte, latite and rhyolite have been observed alone or interbedded with each other or andesite.

The trachyte is buff to brown, fine to medium grained and locally porphyritic, phyritic and limonitic. Latite is present in both flow and brecciated form. Latite breccia is present in and around Trench 8 and in Trench 12. The presence of this breccia is interpreted as due to explosive volcanic activity (eruptive vents) close to a centre of volcanism. The rhyolite is white to grey and aphanitic, with minute grey grains visible to the naked eye.

In addition to the Okusyelda Hill intrusions mapped by Dr. Church geologists have located an area of orthoclase gabbro in Trench 5. The orthoclase gabbro is a waxy brown, course grained, strongly magnetic intrusive.

In all cases significant mineralization occurs in fractured, sheared, or highly shattered and brecciated structural zones. The main lead-zincsilver-copper mineralization found in Trenches 6 and 7 occupy fractures striking north and north 40° east with some minor mineralization occurring in fractures striking north west. This fracturing may be subsidiary to a major fault, of which the stream lineament to the north may be a surface expression. Lead-zinc-silver mineralization found in Trenches 4 and 13 occur in highly shattered and brecciated zones 3 meters to 5 meters wide, both striking north west." Geology Map No. 13A, at the end of the report, details Dr. Church's geological findings for the Owen Lake area.

INSTRUMENTATION AND THEORY

The magnetometer survey was carried out using a portable vertical component, Model 22 fluxgate magnetometer, manufactured by Saber Electronic Instruments Ltd. of Burnaby, B.C. This instrument uses a digital dial read-out with a range of 100,000 gammas. Specifications on this magnetometer can be found in detail in Appendix I.

Magnetite and pyrrhotite are the only commonly occurring strongly magnetic minerals. Magnetic surveys can be used to locate the presence of these two minerals. Different rock types have differing background amounts of magnetite, pyrrhotite or both, therefore magnetic data can also be used to map geologic lithology and structure.

SURVEY PROCEDURE

A grid system was established on the properties with stations every 30 meters. North-south running lines were established over the property for a total of about 60 kilometers of grid line. Magnetometer readings were taken over approximately 36 kilometers of the grid system. The diurnal shift was monitored in the field by the closed loop method using a series of base stations. Soil samples were taken at selected stations used in the magnetometer survey. The samples, taken from the "B" Horizen, were placed in kraft paper bags, marked and sealed. They were then analysed by Acme Analytical Laboratories Ltd. of Vancouver, B.C., for copper, lead, zinc and silver.

Soil samples were dried at 60° C and sieved to -80 mesh. Samples were then digested in a hot dilute aqua regia and then diluted to 10 ml. with demineralized water. The amount of zinc, lead or copper in each sample was determined in the acid solution by Atomic Absorption. Acme Analytical's geochemical methodology is presented in Appendix II. The complete assay results, listed in Part Per Million (p.p.m.) are presented in Appendix III.

COMPILATION OF DATA

Data taken from lines north of line 34N, and between 10 west and 30 east have been plotted on Map Now 1. Data from lines 15 north to 34 north and between 0 east and 30 east have been plotted on Map Now 2. The data has been plotted on these maps at a scale of 1 cm. = 15 meters. To simplify matters 54,000 gammas have been subtracted from each raw data point before being plotted. The magnetic values were grouped together in equal arithmetic intervals and cumulative frequency distribution established. The statistical

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parameters taken from this distribution and used for map construction are as follows:

2100 gammas Anomalous High Threshold Value

- 1800 gammas Sub-Anomalous High Threshold Value
- 1500 gammas Mean Background Value
- 1200 gammas Sub-Anomalous Low Threshold Value
 - 900 gammas Anomalous Low Threshold Value

Assay results for copper, zinc and lead have been presented on maps Now 4, Now 5 and Now 6. Silver assays were too low to warrant graphic presentation.

Map Now 4, which contains the copper assays, has been plotted such that 1 cm. = 20 meters. The contour interval is 10 p.p.m., with any assay result under 10 p.p.m. acting as background.

Map Now 5, which contains the zinc assays, has been plotted such that 1 cm. = 20 meters. The contour interval is 100 p.p.m., with any assay result under 100 p.p.m. acting as background.

Map Now 6, which contains the lead assays, has been plotted such that 1 cm. = 20 meters. The contour interval is 10 p.p.m., with any assay result under 10 p.p.m. acting as background.

DISCUSSION OF RESULTS

Magnetometer Survey

The largest anomalous magnetic high was located extending roughly from 15 east-30 north to 30 east-25 north. This anomalous zone corresponds with the location of proposed Trench 19, outlined in the trenching programs of McAndrew 1974 and Kikuchi 1981. Trench 19 was proposed because the 1973 geophysical survey had found an extreme magnetic high, as well as a strong EM tilt angle crossover and a strong EM vertical component high in the vicinity. The 1973 geophysical results appear to correspond with the 1981 geophysical results in this location. The 1981 survey makes Trench 19 an even more appealing trench target.

Another large anomalous high was located in the southeast corner of the survey area, extending approximately 275 meters from station 22 east-20 north to station 28 east-15 north. A smaller, but still anomalous high, was found between station 17 east-43 north and station 19 east-41 north.

The largest anomalous magnetic low extends southeast from station 18 east-46 north to station 24 east-43 north. The location of this magnetic low corresponds with Trench 8. This trench was dug in 1973 near an outcrop carrying disseminated malachite. Two anomalous lows occur in the northwest corner of the survey area, centered at station 48 north-10 west and 48 north-6 west. Trenches 6 and 7 are both found within the boundary of these two magnetic lows. The two trenches had been dug to open up lead-silverzinc-copper mineralization reported to exist in the area.

Since these three trenches, with known mineralization, correspond to magnetic lows, future trenching programs on the Now claims should consider other areas of magnetic lows in choosing trenching targets. An anomalous magnetic low was found centered at 29 east-52 north. Numerous sub-anomalous zones were found throughout the survey area.

Geochemical Survey

Soil samples showing overlaps for lows of copper, lead and zinc occur at stations 30 north-20 east and 38 north-18 east. A magnetic high was located at 30 north-15 east indicating a possible "copper soil low - magnetic high" correlation at that point.

Overlap highs for copper, lead and zinc appeared approximately at 30 north-6 west and 54 north-16 east which may or may not correlate with a magnetic high found in the vicinity of station 43 north-17 east.

The strongest anomalous high (510 p.p.m.) for zinc occurred at station 54 north-16 east. Another high for zinc came in at station 38 north-11 east. Zinc lows appear as spotty and are not extensive. Lead geochemical results indicate strong highs exist at stations 54 north-17 east and 42 north-7 west. Lead lows are found to be spotty and not extensive.

One strong copper high was indicated at station 30 north-6 west. Other copper closure zones were low or moderate. The lows observed are not extensive and are spotty.

Follow-up trenching conducted on geochemical anomalies found in past exploration programs in the Now claim area have demonstrated "a ratio of success particularly encouraging" -McAndrew, 1974. Notwithstanding the known limitations of the method of survey the results appear to warrant closer investigation by other prospecting methods -- trenching, drilling and/or other geotechnical surveys or any combination of the same.





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SELECTED BIBLIOGRAPHY

Church, B.N., <u>Annual Reports for the year 1969 of the</u> B.C. Department of Mines and Petroleum Resources.

McAndrew, J.M. & Barakso, J.J., <u>Preliminary Report on the</u> Winn Claims. (1972).

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Strato Geological, <u>Report on Geophysical and Geochemical</u> Exploration Program on the Winn Claim Group. 1973

McAndrew, J.M., <u>1973-74 Field Exploration Report</u>, <u>Maharaja</u> <u>Minerals Ltd. (N.P.L.</u>) 1974.

McAndrew, J.M., <u>Memorandum: Diamond Drilling; Old Tom, Crater</u> "Chimney" Area, Winn Group, <u>Dominion Basin</u>. 1976

Kikuchi, T., <u>Report and Recommendations on the Now (1-4)</u> Claims Owen Lake Area, Omineca M.D., B.C. 1981.

STATEMENT OF QUALIFICATIONS

I, James D.A. Parker of the Municipality of Surrey, B.C., hereby certify that:-

- I am a University Student employed part time by Customer Mining Services Limited, with offices at 1102-207 West Hastings Street, Vancouver, B.C., V6B 1H7. I reside at 9469 - 127 A Street, Surrey, B.C., V3P 5X8.
- 2. I am working towards a B.A.degree (major: Psychology and English) at Simon Fraser University, and am in my last semester.
- 3. I have worked two field seasons on Smithers area properties under the direction of James A. Rutherford in the capacity of field manager.
- 4. As at date I have direct or indirect interest in the securities of Mecca Minerals Limited.

no

DATED at Vancouver, British Columbia, this 31st day of December 1981.

James D.A. Parker

CERTIFICATE

I, JAMES A. RUTHERFORD, of the City of Vancouver, British Columbia, the author of this report, hereby certify that:-

- 1. I am President and Manager of Customer Mining Services Limited, with offices at 1102-207 West Hastings Street, Vancouver, B.C., V6B 1H7.
- I hold a B.Sc. degree (major geology) from the University of Alberta - 1955.
- 3. I hold an M.B.A. degree (major business administration) from the University of Western Ontario 1957.
- 4. I am a Fellow of the Geological Association of Canada.
- 5. I am not a Registered Engineer in the Province of British Columbia or of any province.
- 6. I have worked professionally and as a businessman in the mining and/or oil business for over 30 years.
- 7. As at date I have direct and indirect interest through Customer Mining Services Limited in the securities of Mecca Minerals constituting a position of "shareholder of control".
- 8. This report is based on personal field examination and examination of the data obtained as a result of the survey.

DATED at Vancouver, British Columbia, this 31st day of December 1981.

James A. Rutherford (B.Sc., M.B.A., FGAC, AFCGS.

STATEMENT OF QUALIFICATIONS

I, Toru Kikuchi of the City of Vancouver, B.C., hereby certify that:-

- I am a graduate of the Hokkaido University, Japan (B.Sc., Geology and Minerology, 1946) and of the Tohoku University, Japan (Ph.D., Economic Geology, 1963).
- I am a "GIJUTSUSHI" (a qualification for a consulting engineer authorized by the Japanese Government) and a member in good standing of the Association of Professional Engineers of the Province of British Columbia.
- 3. I have been practising my profession continuously for the past thirty-five years, and am an independent Consulting Geologist with my office at 1374 Park Drive, Vancouver, B.C., V6P 2K6.
- I have no direct or indirect interest in the property, nor do I anticipate receiving any such interest, nor in the securities of Mecca Minerals Limited.
- 5. I inspected a portion of the work while the program was being carried out. I have read this report and personally endorse the facts and concepts contained in the text.

in the

Toru Kikuchi, P.Eng.

Vancouver, B.C. December 31st 1981.

AFFIDAVIT OF EXPENSES

The magnetic and geochemical survey carried out on the Now Claims, Owen Lake Area, Omineca, M.D., B.C. September 15 to October 31 1981 was done to the value of the following set in below. Geological investigations were carried out sporadically in the summer of 1981 in conjunction with other work in the general area.

FIELD:

3-man crew, (crew varied from 2 to 8 people with a conservative		
45 days at \$300.00 per day	\$	13,500.00
Supervision		1,000.00
Instrument rental		450.00
Board and room		4,050.00
Survey supplies and assaying		850.00
Mobilization and demobilization (air fares and return to Vancouver)		1,000.00
	\$	20,850.00
REPORT:		
Drafting and printing (binding)	\$	650.00
Report typing and compilation		350.00
	Ş	1,000.00
Grand Total	\$	21,850.00

Respectfully submitted, Customer Mining Services Ltd,

nd James A. Rutherford President

APPENDIX I

1 of]

19.

geophysical industrial instruments and services

SABRE MODEL 22 PORTABLE MAGNETOMETER

The model 22 magnetometer is an accurate and rugged instrument that is simple to operate yet fulfills all the requirements of a first class geophysical exploration instrument.

Specifications

Principle of Operation:	Neutralized fluxgate.									
Type of Readout:	Meter to indicate n indicate value of e	ull and precision digital dial to arth's vertical field directly in gammas.								
Range:	0 to 100,000 gamm latitude controls or	nas (without the use of complicated range switches)								
Sensitivity:	20 gammas per divi linear throughout th	sion on digital dial. Constant and ne entire range.								
Operating Temperature R	ange: -30°C to +85	°C.								
Temperature Drift:	Less than 2 gammas operating range.	per degree throughout the entire								
Fluxgate Suspension Syste	em: Oil-damped	gimbal, self-levelling.								
Dimensions:	Magnetometer:9 ind Battery Case:4-3/4	thes high x 7-1/4 in. wide x 4 in. deep. in. x 4-3/4 in. x 1-1/2 in.								
Weight:	Magnetometer Battery Case	4 lbs. 2 lbs. (complete with batteries)								
Field Cases:	Magnetometer and saddle leather case	battery case are both housed in heavy s with convenient carrying straps.								
Batteries:	4 Eveready No. 24 service life of appr	6 transistor batteries (9 volt), with ox. 2 months depending on use.								



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

GEOCHEMICAL LABORATORY METHODOLOGY - 1981

SAMPLE PREPARATION

1. Soil samples are dried at 60°C and sieved to -80 mesh.

2. Rock samples are pulverized to -100 mesh.

Geochemical Analysis for Ag*, Bi*, Cd*, Co, Cu, Fe, Mn, Mo, Ni, Pb, Sb*, V, Zn

0.5 gram samples are digested hot dilute aqua regia in a boiling water bath and diluted to 10 ml with dimineralized water.

All the above elements are determined in the acid solution by Atomic Absorption.

* demotes background correction.

Geochemical Analysis for Au

10.0 gram samples that have been ignited overnite at 600° C are digested with hot dilute aqua regia, and the clear solution obtained is extracted with Methyl Isobutyl Ketone.

Au is determined in the MIBK extract by Atomic Absorption using background correction (Detection Limit = 5 ppb direct AA and 1 ppb graphite AA.)

Geochemical Analysis for Au, Pd, Pt, Rh

10.0 - 30.0 gram samples are subjected to Fire assay preconcentration techniques to produce silver beads.

The silver beads are dissolved and Au, Pd, Pt, and Rh are determined in the solution by Atomic Absorption.

Geochemical Analysis for As

0.5 gram samples are digested with hot dilute aqua regia and diluted to 10 ml. As is determined in the solution by Graphite Furnace Atomic Absorption.

ACM'E ANALYTICAL LABORATORIES LTD. Assaying & Trace Analysis





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phone:253-3158 l of 5

APPENDIX III

File No. 81-1934

Type of Samples _____Soils

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GEOCHEMICAL ASSAY CERTIFICATE

Disposition_____

30N 3E 17 11 111 .1 1 4 18 15 225 .1 .2 5 12 13 102 .1 .3 6 16 14 268 .1 .4 7 17 13 195 .1 .5 8 18 12 190 .1 .5 9 15 11 105 .1 .7 11 8 18 57 .1 .7 14 5 9 66 .1 .1 19 4 10 98 .1 .11 20 4 8 55 .1 .12 21 7 8 9 .1 .11 22 7 10 89 .1 .14 23 13 13 .80 .1 .17 30N 10 91 .1 .16 .27 .3 30N 14 3 9176 <td< th=""><th>S AMPL</th><th>E No.</th><th>Cu</th><th>РЬ</th><th>Zn</th><th>Ag</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>	S AMPL	E No.	Cu	РЬ	Zn	Ag								
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To: Mecca Minerals 1102 - 207 W. Hastings, Vancouver, B.C.

Assaying & Trace Analysis

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

phone:253 - 3158 2 of 5

APPENDIX III

File No. 81-1934

Type of Samples _____

GEOCHEMICAL ASSAY CERTIFICATE

S AMPLE	No.	Cu	Pb	Zn	Ag								
38N	1E 2 3 4 5 6 7 8 9 10 11 12 13 14 14A 15 16 17 18 19 20 21	12 12 20 10 11 9 5 9 10 18 6 5 9 10 10 10 10 10 11 7 7 7 8 8	8 6 8 10 20 6 9 8 6 7 10 12 8 11 8 7 6 6 4 7 7	113 164 171 88 140 74 66 78 114 262 351 224 101 222 219 125 88 59 53 99 251									1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
38N 38N	21 23 25 28 29 32E 0 W 7 8	9 7 24 7 11 16 15 7 4	10 9 7 6 4 5 5 5 5	255 133 198 93 -44 -42 70 67 39	.1 .1 .1 .1 .1 .1 .1	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·			22 23 24 25 26 27 28 29 30 31
38N 42N 42N	9W 1E 2 14 15 17 22E	12 12 6 4 6 7 7 26	9 10 6 7 5 10	91 63 91 70 72 97 198	.1 .1 .1 .1 .1 .1		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	ана — , , , , , , , , , , , , , , , , , ,		· · ·		32 33 34 35 36 37 38 39 40
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To: Mecca Minerals

Assaying & Trace Analysis

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

phone:253 - 3158

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APPENDIX III

File No. 81-1934

Type of Samples _____ Disposition _____

3 of 5

GEOCHEMICAL ASSAY CERTIFICATE

S A	MPLE No.	Cu	РЪ*	Zn	Ag		·····				
42N	27 E	18	9	64	.1						1
42N	28 E		11	78	.1						2
					•••						3
42N	. O W		9.	50	.1				· · · · · · · · · · · · · · · · · · ·		4
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,	5	24 Q	24	105	•• • •					· · · ·	10
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46N	2 E	12	12	50	.1					÷	14
	.3		- 13	- 52	1						$\frac{15}{16}$
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	- 5		13 -	- 85 - 63			¥1 m				18
a	Q	10	11	50				ng na	и сторику:	a a ann tact	19
	10	8	9	26	1		n nin en en engagen. T	· · · · · · · · · · · · · · · · · · ·		Water and a second s	20
	11	8	13	54							21
	15		11	73				1 			22
	16	····		- 40			e de la composición d	er e monar e É ana a	5 1 1000 1 2000 101001 10 - 100 - 110 - 1	- · · · · · ·	23
	17		11	97	•	• • • • • • • • • • •	· ··· · ······ ·····				24
	10	26	. 19	215	· · · · · · · · · · · · · · · · · · ·					** ***********************************	25
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		10.		····	• J		5		an i territar we	1	28
46N	2 W	15	12	50	.1	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·		29
	7	10	10	70	.1			s			30
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504							5 		A 14444 MILL MILL .		32
50N	1 E	. 10	13	- 80 50	lo - l os	· · · ·			·· · ·		33
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	. 5	8	15	95	···· +1. ·			×	14 I HI		36
	6		9	40	1						37
	7	10	10	85	.1						38
	10	. 10 .	10	70	.1			×			39
50N	<u>11 E</u>	15	10	100	.1						40
All re	ports are the con	fidencial pro	perty of	clients			DATE SAMI	PLES RECEIVE	D Dec. 1	6. 1981	
All re	sults are in PPM.									2 1001	
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									<i>v</i>		
								DEAN TO	DYE, B.Sc.		
							1	CERTIFIED B	.C. ASSAYER		

To: Mecca Minerals

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Assaying & Trace Analysis

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

phone:253-3158 4 of 5

Disposition

APPENDIX III

File No. 81-1934

Type of Samples _____

GEOCHEMICAL ASSAY CERTIFICATE



To:

Mecca Minerals

To: Mecca Minerals

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

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

phone:253-3158 5 of 5

APPENDIX III

81-1934 File No.

Disposition_____

Type of Samples _____

GEOCHEMICAL ASSAY CERTIFICATE

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DICEC	TION:							DATE REPO	RTS MAILED	UEC. /	<u>cs, 1</u>	201
DETER	RMINATION:	»» ***********************************	*******		****			ASSAYER	l	Jan	4	

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44N —	1400 1790	1700	1100 1270	0 1650	1380	1 1150/	1360	1360	1340	1340	1510	1450	1160	1390	1300	1260	1150	1350	1420	1320	1400	1670	1620	1870	1200	1680	1320	. 450	1480	1350	·)/// 350///	1250)	0011	1 150	· 1350	1330	1500	1490	1240	200 ,
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	2030 1920 (2020	1980 191	0 1750	1750	1800	1780	1600	1640	1640	1640	1 680	1690	1820	1570	1840	1580	1600	1420	1820	1580	1780	1640	1630	1480	1410	1550	1 550	1620	1300	1320	1440	1360	1270 /	1620	1300	1340	1410	1 1100	
36N -	2010 1790	1810	1819 170	o 1 ['] 700	1510	1510	i440 \	1150	1560	1390	1500	1460	1260	1310	1300	1250	1310	1310	1500	1500	1380	1650	1640	1670	18 80	1670	1380	1 3 30	1300	1410	1 380	1240	1350	1310	1480	1640	1400	1370	1380	
	1360 1550	1370	1140 1510	0 13'90	1420	1460	1500	1340 \ \	9 8 0	980	1050	1170	1090	1090	แ่ง	1050	1240/ TB Ř	1180	1200	1170	1180	1230 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1850	1410	1 470	1400	1380	1310	1 320	1300	1330	1380	,* 1380	1390	1400	1430	1380	1430	1550	

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CONTOUR INTERVAL : 150 GAMNAS 1800 JAMNAS AND HIGHER 1200 CANNAS AND LOWER -----INSTRUMENT: SAGRE MODEL 22 FLUXGATE MAGNETONETER

PARAMETERS

2100	BANNAS	AHOMALOUS HIGH THRESHOLD VALUE
1.800	BAHNAS	SUB ANOMALCUS HIGH THRESHOLD
1 5 0 0	CAMMAS	HEAN BACKGROUND VALUE
1200	SANNAS	SUS ANONALOUS LOW THRESHOLD VALUE
900	BANNAS	ANONALOUS LOW THRESHOLD VALUE

BACKGROUND CONTOUR OF 2400 BANMAS NOT DRAWN IN. 54 000 BANMAS SUBTRACTED FROM EACH VALUE I. S. SOGO READS STODO BANHAS



DATE CHN. BY SCALE DEC., 1981 UEStarford I CHAIS NETERS DRAWN BY

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34 N _	0801	1060	1050	1170	1140	1120	1140	1100/	1240	1200	1110	(140	1 190	- 	(740	16 10	1560	1810	1390	° 7 / 1140	000	1150	, 1170	1170	12:40	1250	1280	1300
	1040	1 1060	1120	, ¹²⁰⁰		1240	1240	1310	1290	1390	1290	1310	1250	1300	1450	1470	1380	1540	1440	1180	1030	950	970	1 080	1080	1190	1200-	
32N	1030	/ 1100 	1050	1320	1300	1280	1270	12.50	1400	1200	1040	1240	1240	1270	1460	1760	• 1510	1730	1580	1730	167 0	doei	1090	100	1120	1180	1270	1520
	1280	1320	1250	1360	1360	1220	1300	1250	1430	1330	1040	1080)	1300	1290	1390	1570	1790	1990	1950	2090	2050	1600	1050	1100	1170	 170/	1380	1 7 80
30 N	1560	1*300	1360	1220	1320	1280 -	1200	1420	1300	1260	1460	1250	1420	1250	2010	2140	1700	1630	2320	2290	2230	• 1660	1210	950		1200	1580	1700
	1300	1320	1350	1390	1340 (1140	1240	1280 /	1100 (1020)	1100)	1430	1380	1360	1360	1840	2020	2280	2230	2220	1750	1740	2i90	2400	2110	1140	lieg	1520
28N	1460	1750	1400	1500	1400	1480	1220	1230	1140 /	1270	1330	1280	1470	1660	1780	1880	2050	2290	2550	(1540	1540	1420	1880	1360	2220	2220	1089	1410
	1500	1500	1460	1600	1460	1240	1180	1280	1240	1360	1500	1340	1270	1440	1560	440	1300	1540	2170	2420- 2	2400) 2150	2380 (2640	2650	1850	1620	1260
26 N —	1540	1470	1600	1700	1500	1350	1380	1400	1250	1210	1280	1400	1550	1410	1740	260	1510	2080	2170	1830	1980	1850	1800 PRO	2330 2330 20510 FR	2320	2470	2030	2440
	1530	1540	1760	1590	14 40	1460	1370	1290 / \	1180	1130	1180	1250	1070	1580	1850	1410	1180	1080	1.880	1250	1640	1630	1520	1580	1700	1800	2200	2300
24 N —	1540	1530	1490	600	1540	1380	1440	1440	1270	៲៹៓៝៝៝៝ៜ	1 280	1080	1010)	1100	1270	1300	1250	1160	1100)	1260	1440	1480	1480	1240	1440	1.380	1560	1480
	1410	1650	1490	1420	1420	1380	1310	1340	1140	1300	1300	1270		1170	1080	1199/	1260	1310	1310	1280	1240	1270	1340	1280	1320	1400	1520	1340
22 N —	1430	(420	1390	440	1420	1440	1420	1510	1120	1300	1280	1450	1200	1210	1580	1810	1740	1410	1220	1 350	1420	127.0	1300	1200	1220	1340	1400	1420
ι,	1540	1460	1610	1490	1500	1400	1420	1370	1190 /	1240	1260	1210	1480	1500	1440	1580	1850	1310	1390	1470	1350	1450	1420	1460	1450	1360	1430	1300
20N	1780	1460	1530	1480	1440	1400	1330	1320	1350	1350	1370	1300	1270	1300	1370	1500	1720	1840	1510	1640	.620	1880	2000	1680	1520	1420	1310	1310
	1410	1470	1460	1440	1470	1450	1550	1330	ł 4 00	1450	1450	1470	1450	1440	1550	1640	1700	1 740	1700	1780	1530	1520	1750	1880	2080	1800	1380	1320
18N —	1500	1490	1780	1 380	1540	1570	1 380	130	1260	1380	1370	1380	1280	1310	1700	1920	1840	1710	1610	1570	1750	1740	1500	r 1620	1730	2360	1560	1300
	1790	1570	1820	1890	2050	1490	1460	1290	1340	1630	1420	1440	1400	1400	1340	1670	1530	1720	, 1770	1770	1900	1800	1950	1610	1800	1 930	2160	I2 00
16N —	1700	1560	1 690	2400	2120))	1610	1520	1 490	1450	1420	1580	1580	1640	1630	1740	1570	1500	1310	1630	1670	1960	1630	1690	1770	1750	300	2300	500
. <i>.</i>	1720	1 6 50	1 280	1510	1440	1360	1640	1660	1570	1450	1420	15 6 O	1360	1450	1420	1500	1500	1740	1520	۱ 5 6 0	1910	1710	1.650	1790 1 ⁹⁰⁰	1900	2060	2380	1890



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CONTOUR INTERVAL : 150 GAMMAS 1800 GAMNAS AND HIGHER 1200 GANNAS AND LOWER -----INSTRUMENT: SABRE NOCEL 22 FLUXGATE NAGNETOMETER

PARAMETERS

2100 GANNAS ANOMALOUS HIGH THRESHOLD VALUE 1800 GAMMAS SUB ANOMALOUS HISH THRESHOLD 1500 GAMMAS NEAN BACKGROUND VALUE 1200 BANNAS SUB ANONALOUS LOW THRESHOLD VALUE 900 GANNAS ANONALOUS LOW THRESHOLD VALUE

BACKGROUND CONTOUR OF 2400 SANNAS NOT DRAWN IN. 54 000 GANNAS SUBTRACTED FRON EACH VALUE 1. 0. 3000 READS 57 000 BANNAS

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28E | 30E 1290 1470 1520 1360 1480 1320 1280 1370 1330 1320 1770 1430 1650 1380 1710 1700 1270 1210 1 450 2720 2390 2 250 1 450 1560 1620 1460 1460 1510 1620 1310 1350 1340 1430 1430 1700 1700 1770 1500 2080 1730 16 90 1719 2350 2500 1860 2150 MILLEN, REFOURCES BRANCH ACCESSMENT REPORT MECCA MINERALS LTD. 1102 207 W HASTINGS ST. VANCOUVER B.C. VEB 147 NOW CLAIMS - OWEN LAKE, B.C. MAGNETOMETER SURVEY MAP NOW 2 DATA AND CONTOURS - (Part 2) DEC., ISEI JUSSE ON I CNOIS NETERS ORAWN BY







