GEOLOGICAL REPORT

on the

VECTOR PROPERTY

NTS 106D/10
Latitude 64°39'N; Longitude 134°46'W

in the

Mayo Mining District
Yukon Territory

prepared by


for

CASH MINERALS LTD.

by

W.A. Wengzynowski, P. Eng.

April 2002
This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $950.

M. B. [Signature]

Regional Manager, Exploration and Geological Services for Commissioner of Yukon Territory.
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INTRODUCTION AND HISTORY

The Vector property in central Yukon Territory was staked to cover a previously documented barite occurrence. The area occupied by the current claim block was staked and briefly explored in 1975 by the Wernecke Joint Venture (Chevron Standard Ltd. and Aquitaine Company of Canada Ltd.) as part of an uranium program conducted throughout the Wernecke Mountains (DIAND, 2001). Previous exploration consisted of geological mapping, soil sampling and radiometric surveys. Part of this work resulted in the documentation of barite showings that were never sampled or evaluated from an economic perspective.

The Vector claims are situated in the Mackenzie Fold Belt and host several steeply dipping en echelon barite lenses within a small window of Proterozoic age rocks.

The 2001 program consisted of a one day evaluation of the prospect by two fieldmen using helicopter support. Work involved cursory mapping and sampling of various portions of barite lenses. This work was carried out by Archer, Cathro & Associates (1981) Limited and supervised by the author. A Statement of Qualifications is contained in Appendix I.

PROPERTY LOCATION, ACCESS AND PHYSIOGRAPHY

The Vector property is owned 100% by Cash Minerals Ltd. and consists of two contiguous mineral claims located in central Yukon Territory at latitude 64° 39'N and longitude 134° 46'W on NTS map sheet 106D/10 (Figures 1 and 2). The claims are registered with the Mayo Mining Recorder in the name of Archer, Cathro & Associates (1981) Limited, which holds them in trust for Cash Minerals Ltd. Claim tenure and expiry information is listed below.

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*Expiry date includes this work filed for assessment credit but not yet accepted.

Access in 2001 was by helicopter from a base in Mayo, 130 km southwest of the property. The nearest road access is the community of Keno City some 100 km south of the property and 490 km by paved or chip-sealed, all weather highway north of Whitehorse. The abandoned Wind River winter road extends from Keno City, some 140 km north to a point where it passes within 5 km of the claim block.

The property is situated at approximately 1500 m elevation within a hanging valley formed by late Pleistocene glaciation. Although outcrop in the area is limited to a subdued local ridge crest and nearby creek cut, till cover is minimal making talus mapping effective. Vegetation is sparse and consists of alpine grass, moss and lichen.
The Vector property lies within the Mackenzie Fold Belt (Figure 3) which primarily affects Proterozoic to Paleozoic age, passive margin miogeoclinal sediments of the Mackenzie Platform (Figure 4). The regional structural fabric in the vicinity of the property is defined by cleavage, foliation, faulting and open folds of Cretaceous age, which are superimposed on older structures within pre-Paleozoic rocks. Most of the major features have long axes that trend northwesterly.

![Regional Tectonic Setting](image)

Adapted from Gordey and Anderson, 1993
Figure 3: Regional Tectonic Setting

The Vector claims are immediately underlain by a small window of Lower Proterozoic Quartet Group rocks exposed through cover of Cambrian to Devonian limestone and dolomite.
<table>
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<td>Quartet Group</td>
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<tr>
<td></td>
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<td></td>
<td>2 - dolomite, slate, phyllite</td>
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<tr>
<td></td>
<td>and argillite</td>
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<tr>
<td>Ordovician &amp; Silurian</td>
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<td>12 - limestone and chert</td>
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<tr>
<td>Carboniferous to Permian</td>
<td>13 - limestone, chert, shale and</td>
</tr>
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</table>

- Vector property
- Geological contact, approximate
- Fault
- Antiform
- Synform
- Bedding orientation
- Foliation orientation

Adapted from Green and Roddick, 1961
Stratigraphy in the vicinity of the barite occurrences was described in Archer (1975) as consisting of:

a) green phyllitic tuffaceous metavolcanic rocks with minor horizons of argillite and intraformational breccia

b) brown weathering, sheared, intraformational breccia with matrix and fragments consisting of green tuffaceous volcanics

c) black slate and argillite.

More recent regional work has demonstrated that the breccias cross cut the sediments and that color variations in the wallrocks are due to alteration related to the breccia bodies. All wallrocks are now believed to be sedimentary in origin. Figure 5 illustrates the location of the barite lenses relative to the claim block and geology in the immediate area of interest.

All stratigraphic units exhibit well developed cleavage which strikes north-northwest to northeast and dips steeply to the west between 58 and 80 degrees. This strike parallels property-scale normal faults mapped nearby. The most prominent of the faults coincides with a north-northeast trending drainage and hosts weakly radioactive gossans containing residual pyrite and minor barite.

**MINERALIZATION**

Mapping identified four en echelon, steeply dipping, barite lenses within a 170 by 300 m area (Figure 6). They range from 30 to 100 m in length and typically vary from 2 to 6 m in width, locally widening to 13 m. The barite is white to grey, coarsely sucrosic and colour banded. No sulphides were observed but limonitic pits comprise up to 1% of some rocks particularly toward the margins of the lenses. Wallrock contacts are sharp and all those observed were parallel to cleavage.

Eight chip samples from bedrock and talus were taken across sections of the three largest lenses, Lenses A to C. Two composite samples created from the chip samples collected from Lenses A and C were submitted to ALS Chemex Labs in North Vancouver where they were pulverized to -75 micron and analysed for 34 elements by aqua regia acid digestion and induced coupled plasma (ICP) finish. Whole rock geochemical analyses were also performed using lithium metaborate fusion and XRF techniques. Certificates of Analysis are contained in Appendix 11.

The two composite samples assayed 91.5 and 93.1% barite. There were no significant metallic contaminants. Specific gravities for the samples were 4.58 and 4.35 g/cm³, respectively.

**CONCLUSIONS AND RECOMMENDATIONS**

The Vector property appears to host a barite prospect of significant size. Preliminary analyses satisfy minimum requirements for use as a drill mud additive for the petroleum industry. More work is definitely warranted to better determine the tonnage potential and to establish the chemical character of the barite below the effects of surface weathering and oxidation.
FIGURE 6
DETAIL GEOLoGY & SAMPLE LOCATION
VECTOR PROPERTY
APRIL, 2002

CASH MINERALS LTD

LENS C

INTERMITTENT LAVA BLOCK
FLOAT IN FLAT BEANS LAMOS
2 to 5 m wide flow trend

LENS B

RIDGE CREST

CONCENTRATED DISPERSION ALONG FAULT CONTACT

LENS A

a) phyllic agnitite
b) breccia

outcrop
surface trace
of barite
orientation
of barite outcrop
fault trace
Future work should be delayed until there is increased oil and gas exploration activity in the northern Yukon and Mackenzie Delta. These areas are the most likely market for barite from Vector because transportation distance is minimized.

Respectfully submitted,

[Signature]

William A. Wengzynowski, P.Eng.
REFERENCES

Archer, A.R.

DIAND

Green, L.H. and Roddick, J.A.
1961  Map 1282A, Geology, Nash Creek, Yukon Territory.

Gordey, S.P. and Anderson, R.G.
APPENDIX I

AUTHOR'S STATEMENT OF QUALIFICATIONS
STATEMENT OF QUALIFICATIONS

I, William A. Wengzynowski, geological engineer, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in North Vancouver, British Columbia, do hereby certify that:

1. I graduated from the University of British Columbia in 1993 with a B.A.Sc in Geological Engineering, Option I, mineral and fuel exploration.

2. I became a Professional Engineer on December 12, 1998 registered in the Province of British Columbia.

3. From 1983 to present, I have been actively engaged in mineral exploration in the Yukon Territory and am presently a partner of Archer, Cathro & Associates (1981) Limited.

4. I have personally participated in and supervised the fieldwork reported herein.

W.A. Wengzynowski, P. Eng.
APPENDIX II
CERTIFICATES OF ANALYSIS
## CERTIFICATE OF ANALYSIS

**A0123049**

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**CERTIFICATION:**

[Signature]

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**Aurora Laboratory Services Ltd.**

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver

British Columbia, Canada

PHONE: 604-984-0221 FAX: 604-984-0218

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**CASH MINERALS LTD.**

C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

1016 - 510 W. HASTINGS ST.

VANCOUVER, BC

V6B 1L8

Certification Date: 05-SEP-2001

Invoice No.: 10123049

P.O. Number: MPM

Project: JADE-BOZO

Comments:
Costs associated with this report have been approved in the amount of $950 for assessment credit under Certificate of Work No. 000400900000385.

Mining Recorder
Mayo Mining District
AFFIDAVIT

I, Joan Mariacher, of VANCOUVER, BC, make oath and say:

That to the best of my knowledge the attached Statement of Expenditures for exploration work on the VECTOR 1-2 mineral claims on Claim Sheet 106D/10 is accurate.

[Signature]
Joan Mariacher

Sworn before me at VANCOUVER, BC.

this 13TH day of JUNE, 2002

[Signature]
Notary, Yukon Territory
Statement of Expenditures
Vector 1-2 Mineral Claims
June 13, 2002

Labour

B. Wengzynowski – geologist – 17 hours April at $60/hr $1,091.40
**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**

**In Account With**

**Project**  VECTOR PROJECT  
**Date**  APRIL 30, 2002

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### MANAGEMENT

6% on Expenses on Field A/C

### GST

7.0% on $1025.00

E = GST exempt

1096.75