

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

Archer, Cathro & Associates (1981) Limited

for

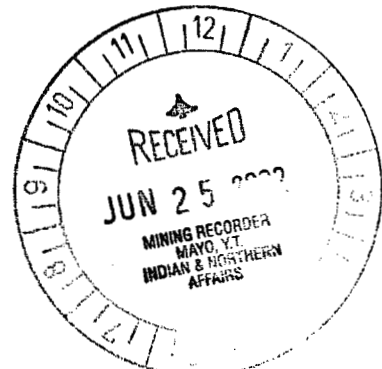
CASH MINERALS LTD.

by

W.A. Wengzynowski, P. Eng.

April 2002

094376



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 \$ 950.00.

M. B. H.

for 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.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Vector 1-2	YCO2846-YC02847	March 23, 2007

*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.

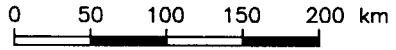
CASH MINERALS LTD.

FIGURE 1

PROPERTY LOCATION

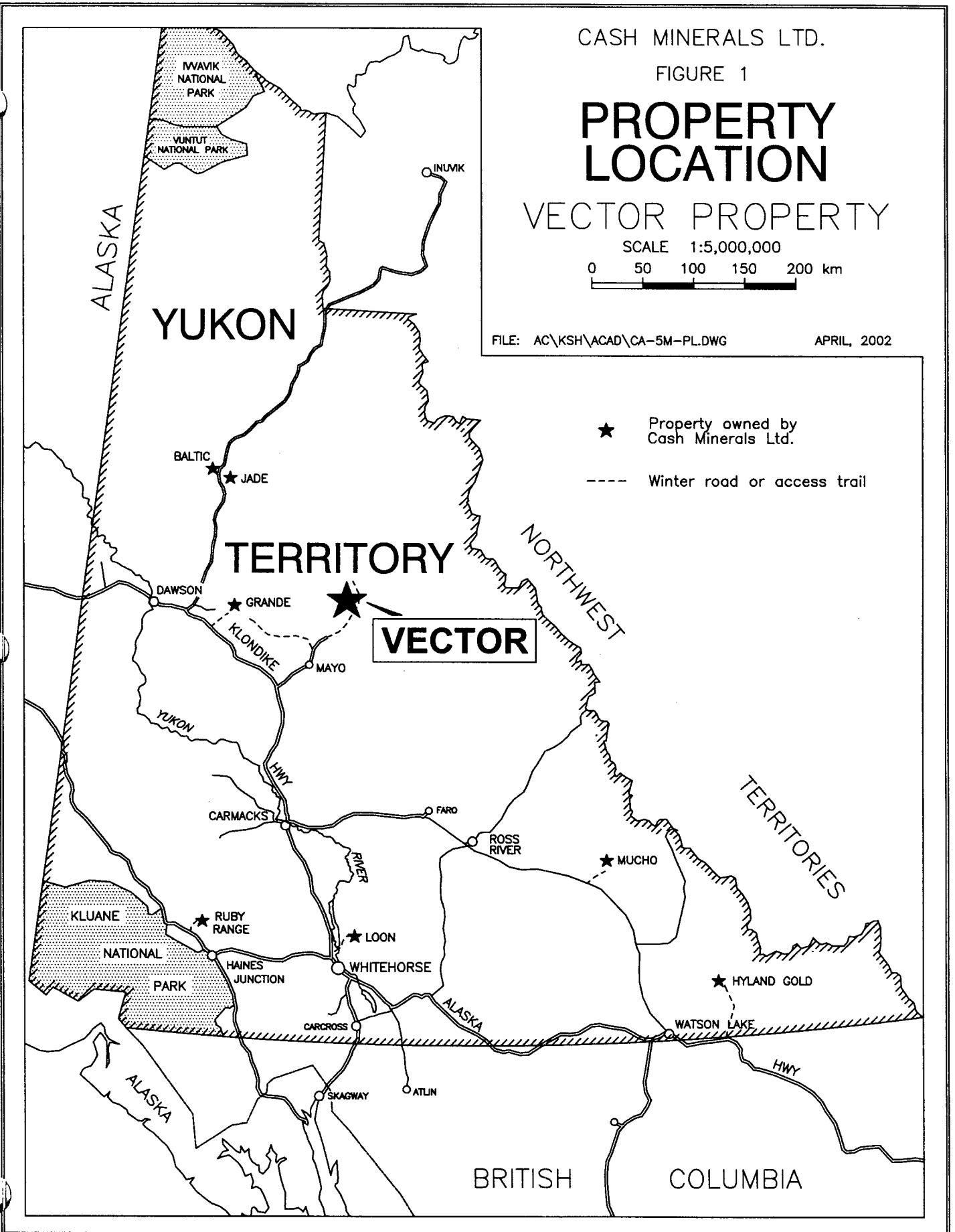
VECTOR PROPERTY

SCALE 1:5,000,000



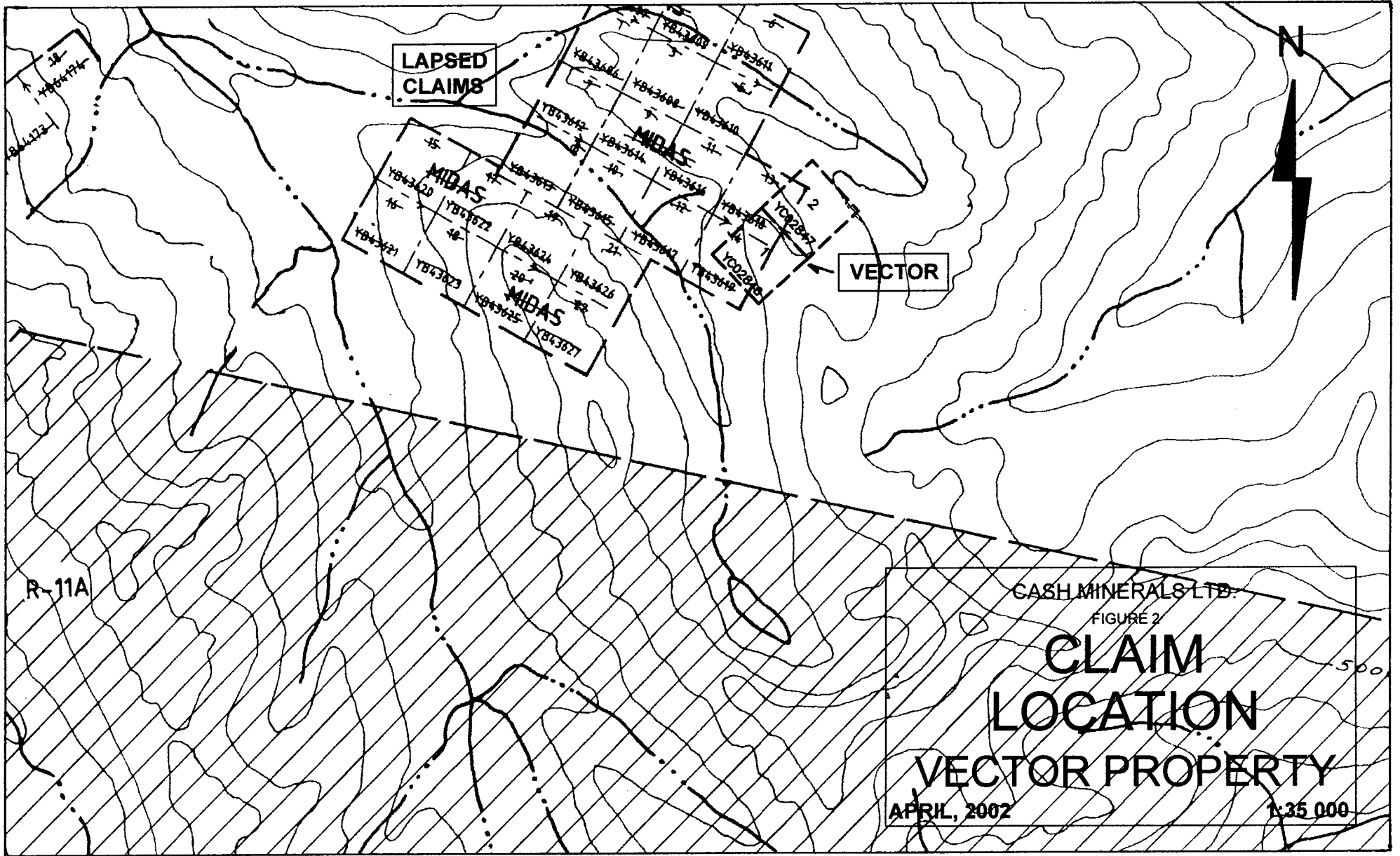
FILE: AC\KSH\ACAD\CA-5M-PL.DWG

APRIL, 2002



★ Property owned by Cash Minerals Ltd.

---- Winter road or access trail



LAPSED
CLAIMS

VECTOR

R-11A

CASH MINERALS LTD.

FIGURE 2

CLAIM
LOCATION

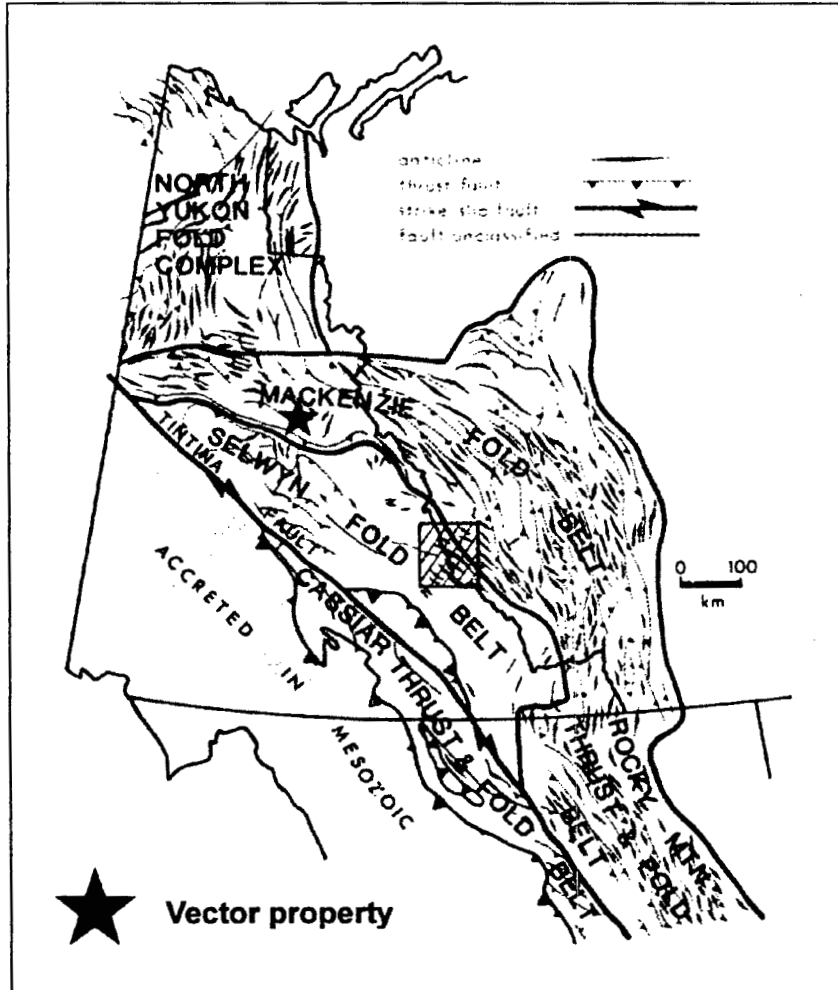
VECTOR PROPERTY

APRIL, 2002

1:35 000

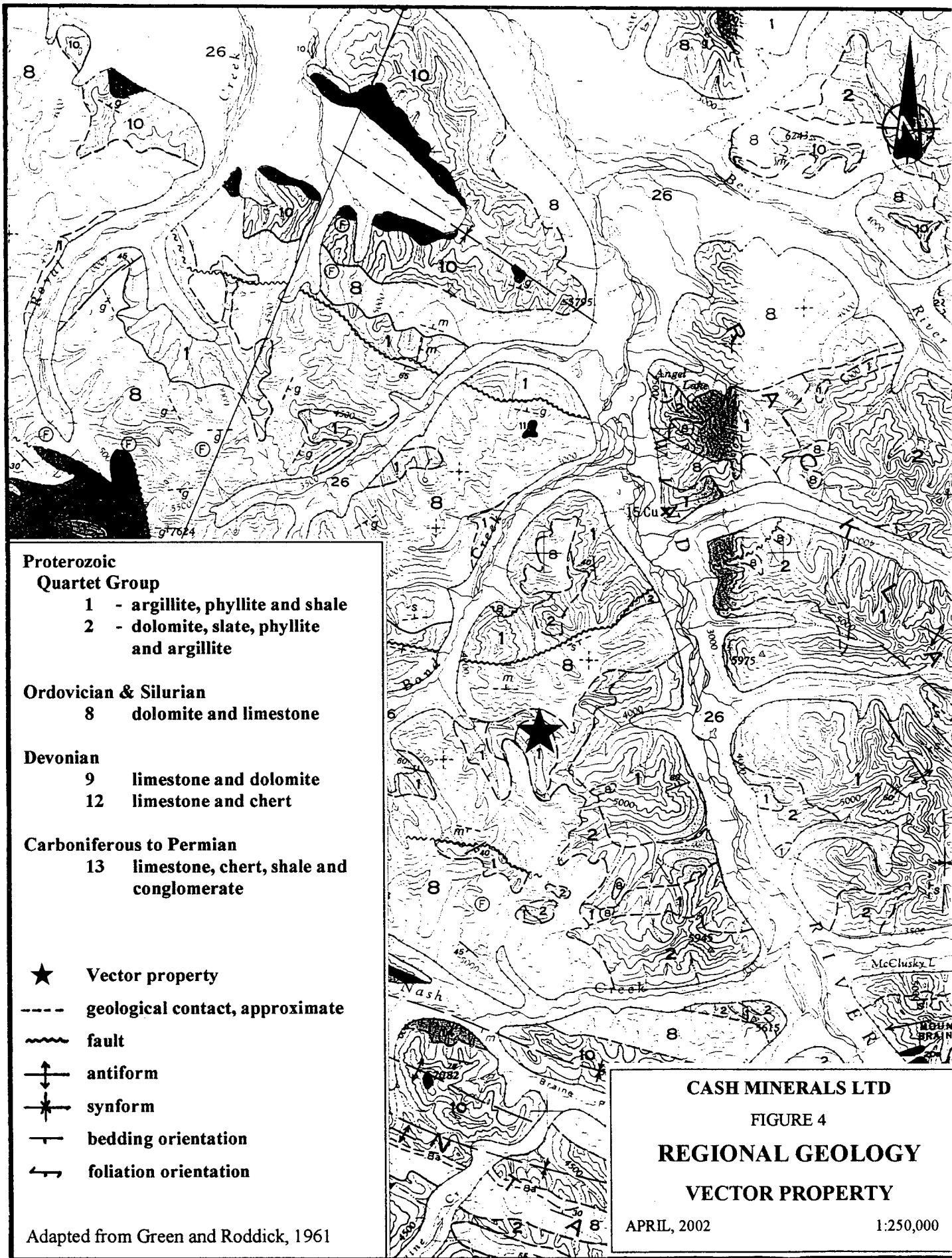
GEOLOGY

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.



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.



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

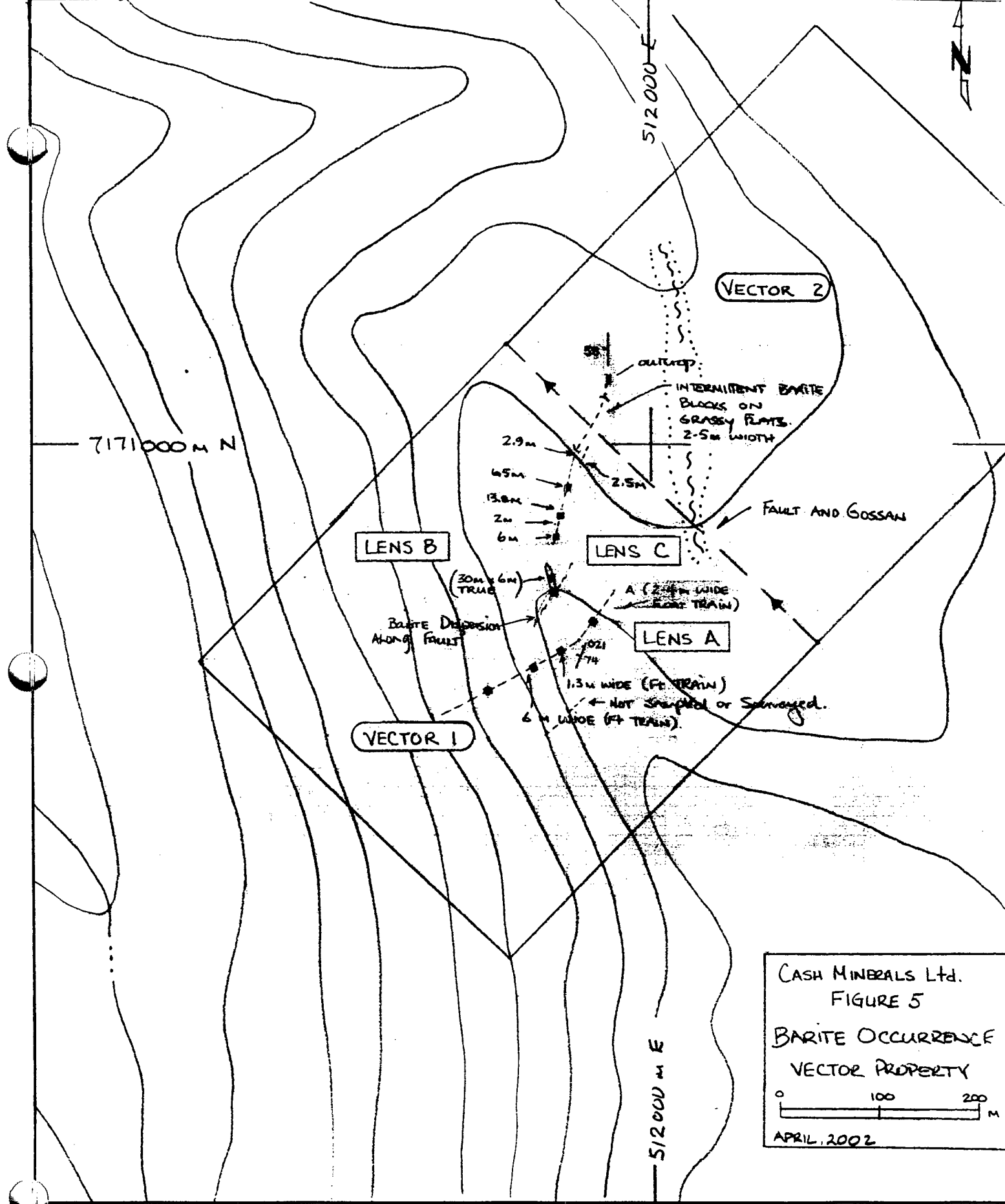
Mapping identified four en echelon, steeply dipping, barite lenses within a 170 by 300 m area (Figure 6). They range from 30 to 100 m in length and typically vary from 2 to 6 m in width, locally widening to 13 m. The barite is white to grey, coarsely sucrosic and colour banded. No sulphides were observed 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 II.

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

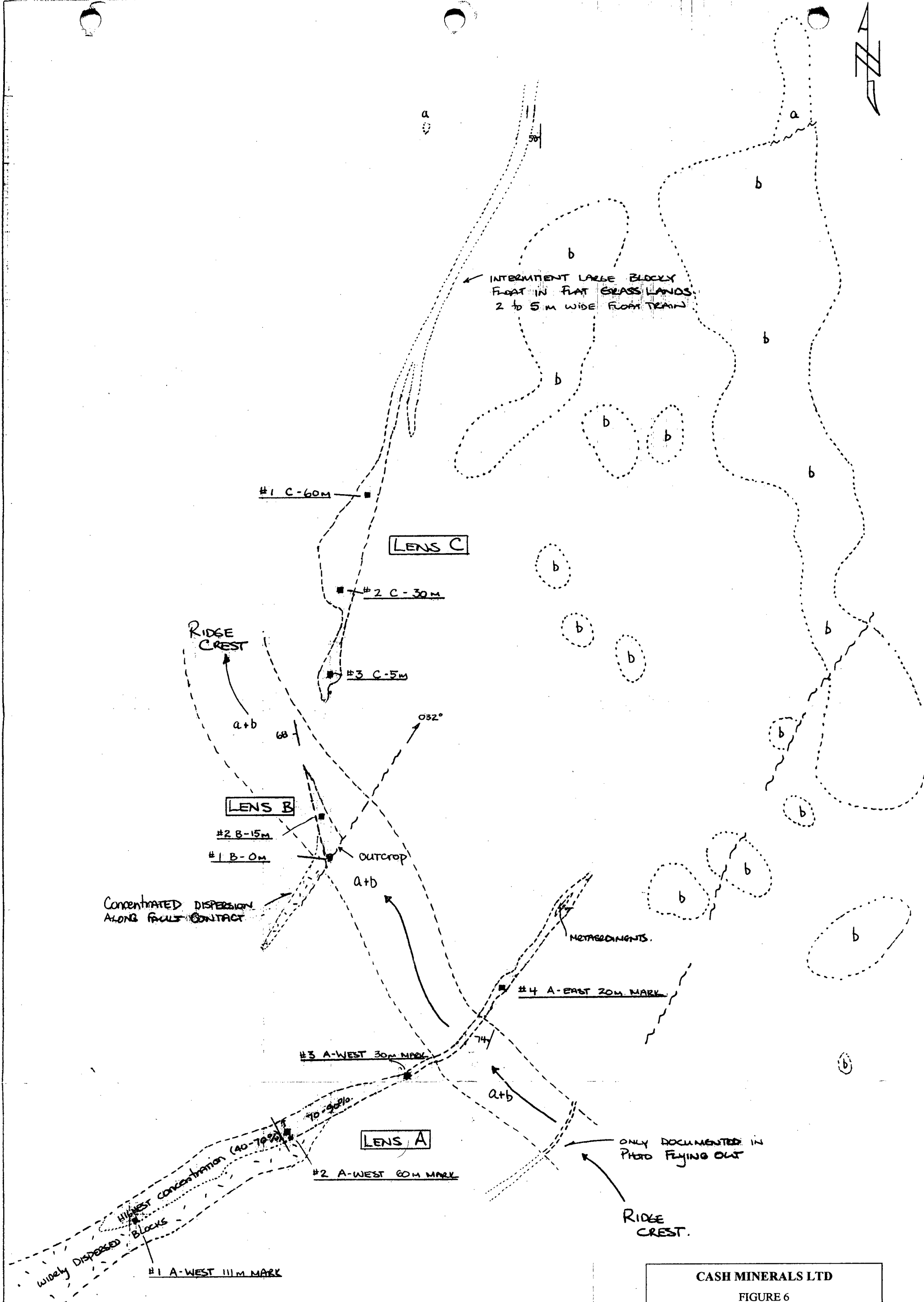
The Vector property appears to host a barite prospect of significant size. Preliminary analyses satisfy minimum requirements for use as a drill mud additive for the petroleum industry. More work is definitely warranted to better determine the tonnage potential and to establish the chemical character of the barite below the effects of surface weathering and oxidation.



CASH MINERALS Ltd.
 FIGURE 5
 BARITE OCCURRENCE
 VECTOR PROPERTY

0 100 200 M

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a) phyllitic argillite	○ outcrop
b) breccia	--- surface trace of barite
	- - - orientation of barite outcrop
	74 fault trace

CASH MINERALS LTD
 FIGURE 6
DETAIL GEOLOGY & SAMPLE LOCATION
 VECTOR PROPERTY
 APRIL, 2002 1:1000

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,



William A. Wengzynowski, P. Eng.

REFERENCES

Archer, A.R.

1975 Final Report, Wernecke Joint Venture 1975, January 23, 1976.

DIAND

2001 Yukon MINFILE Database, 2001. Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada.

Green, L.H. and Roddick, J.A.

1961 Map 1282A, Geology, Nash Creek, Yukon Territory.

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

1993 Evolution of the Northern Cordilleran Miogeocline, Nahanni Map Area (105I), Yukon and Northwest Territories, Geological Survey of Canada, Memoir 428.

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



ALS Chemex

Aurora Laboratory Services Ltd.
 Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218



CASH MINERALS LTD.
 C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
 1016 - 510 W. HASTINGS ST.
 VANCOUVER, BC
 V6B 1L8

Project : JADE-BOZO
 Comments:

Page Number : 1-A
 Total Pages : 1
 Certificate Date: 05-SEP-2001
 Invoice No. : I0123049
 P.O. Number :
 Account : MPM

CERTIFICATE OF ANALYSIS

A0123049

SAMPLE	PREP CODE	Weight Kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
BoZo A	94139402	1.02	< 0.2	0.01	< 2	10	2130	< 0.5	< 2	0.08	< 0.5	< 1	< 1	3	0.11	< 10	< 1	< 0.01	< 10	0.04
BoZo C	94139402	0.96	< 0.2	< 0.01	< 2	10	2610	< 0.5	< 2	< 0.01	< 0.5	< 1	1	1	0.08	< 10	< 1	< 0.01	< 10	< 0.01

CERTIFICATION: _____



ALS Chemex

Aurora Laboratory Services Ltd.
 Analytical Chemists * Geochemists * Registered Assayers
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 V6B 1L8

Project : JADE-BOZO
 Comments:

Page Number : 1-B
 Total Pages : 1
 Certificate Date: 05-SEP-2001
 Invoice No. : I0123049
 P.O. Number :
 Account : MPM

CERTIFICATE OF ANALYSIS	A0123049
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SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	ZnSpec ppm	Gr S.G.	Ba %	BaSO4 % calc.
BoZo A	94139402	60	< 1	< 0.01	< 1	< 10	16	0.08	< 2	< 1	248	< 0.01	< 10	< 10	1	< 10	6	4.58	53.9	91.53
BoZo C	94139402	35	< 1	< 0.01	1	< 10	< 2	0.07	< 2	< 1	135	< 0.01	< 10	< 10	< 1	< 10	< 2	4.35	54.8	93.13

CERTIFICATION: _____



ALS Chemex

Aurora Laboratory Services Ltd.
 Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

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 VANCOUVER, BC
 V6B 1L8

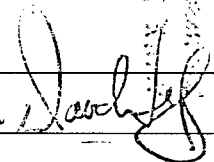
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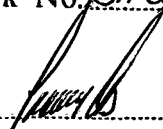
CERTIFICATE OF ANALYSIS A0123049

SAMPLE	PREP CODE	Al2O3	BaO	CaO	Cr2O3	Fe2O3	K2O	MgO	MnO	Na2O	P2O5	SiO2	SrO	TiO2	LOI	TOTAL
		% XRF	% XRF	% XRF	% XRF	% XRF	% XRF	% XRF	% XRF	% XRF	% XRF	% XRF	% XRF	% XRF	% XRF	%
BoZo A	94139402	0.68	74.90	0.12	< 0.01	< 0.01	0.03	< 0.01	< 0.01	0.41	0.01	0.10	0.43	0.17	0.33	77.18
BoZo C	94139402	0.68	75.12	0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.01	0.34	0.01	0.30	0.38	0.16	0.20	77.22

This certificate is valid only if the sample is analyzed by ALS Chemex Ltd. in accordance with the contract conditions. It is not valid for any other purpose.

CERTIFICATION: 

Costs associated with this report have been approved in the amount of \$ 950 for assessment credit under Certificate of Work No. Umpo 400 9 0100385


Mining Recorder
Mayo Mining District

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016 - 510 West Hastings Street
Vancouver, B.C. V6B 1L8

Telephone: 604-688-2568

Fax: 604-688-2578

AFFIDAVIT

I, Joan Mariacher, of VANCOUVER, B.C. 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.


Joan Mariacher

Sworn before me at VANCOUVER, B.C.

this 13TH day of

JUNE, 2002

094376



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

LABOUR				
Field	6. WENGLYNOWSKI - 17 HRS AT 60/HR		1020.00	
Office	M. Cooke -	hrs at \$39.15/hr		
Accounting and Expediting	J. Mariacher -	hrs at \$44.45/hr		1020.00
OTHER SERVICES				
Room & Board in Whitehorse		days at \$80/day		
Field equipment from AC stock				
Printing		Photocopies 20 @ .25	5.00	
Rentals from AC				
Drafting		hrs at \$38.40/hr		5.00
				<u>1025.00</u>
EXPENSES				
Petty Cash				
Telephone				
MANAGEMENT 6% on Expenses on Field A/C				
GST (R100247667) 7% on 1025.00				71.25
E=GST exempt				<u>1096.75</u>

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