

106c

004982

Bassie's Reef Resources

Corn Creek Property x

Harrison Creek Property

Bonnet Plume area Y/1

Jan 14 1974

KERR ADDISON MINES LIMITED

(FOR INTER-OFFICE USE ONLY)

JAN 16 1974

To G. M. Hagg From F. Chow 106C
Subject BARRIER REEF RESOURCES -
CORN CREEK PROPERTY (106-C-10, 11, 14 & 16) Date January 14, 1974
HARRISON CREEK PROPERTY (106-C-7)

W.J.
M.H.
G.M.H. ✓
M.D.R.
I.D.B.
R.D.S.
G.R.
T.W.B.
<u>E.C.J.</u>

In Bill's absence I am writing this memo regarding Barrier Reef's submission on two lead-zinc claim groups which they had staked in 1973 during the course of a regional exploration program.

Both properties are within the Bonnet Plume River region; the Corn Creek property is located about 30 miles northwest and the Harrison Creek property is about 2 miles west of Barrier Reef's original find.

Both properties cover lead-zinc sulphide showings within a carbonate unit which is reported to be stratigraphically equivalent to the strataform zinc mineralization on Barrier Reef's original find. The favourable horizon is a dolomitic unit called dolostone on these two properties.

CORN CREEK PROPERTY (56 mineral claims)

Sparse but widespread mineralization was found within the upper horizon of the dolostone unit. Galena, sphalerite and pyrite occur as massive sulphides in veins and faults, with minor amounts as vug filling in the wall rocks. Three of the larger showings were sampled. One representative (?) sample from each area gave values ranging from 9% to 60% Pb + Zn, 1 oz. to 17 oz. Ag/T and with about 0.05% Cd. The average amount of galena and sphalerite is about equal though varies at each location. The width of the veins and/or fault zones range from one foot to ten feet.

Vein type deposits with low silver ratios are unlikely to be economical in remote areas in the foreseeable future. There is no direct evidence of strataform mineralization as such, though mineralization does occur in one geological unit.

HARRISON CREEK PROPERTY (40 mineral claims)

Sphalerite and galena occur as breccia matrix in breccia beds within the dolostone rock unit. Two beds measuring 120 feet + 30 feet thick were found along the exposed canyon wall. A 40 foot section (35' true thickness) of the breccia assayed 2.5% sulphide zinc, 0.17% Pb, 0.01% Cd and trace of Ag.

The dolostone unit and the limestone-dolomite-shale beds as shown on the property geological plan appear to be a faulted segment of one limb of an anticline. The shale unit lying in fault contact with the above mentioned beds and dipping in the opposite direction is probably the other limb of the fold. This would place the shale as the topmost rock unit and would confirm to the sequence of marine deposition. The relationship of the fault to origin of mineralization is unknown at present.

BARRIER REEF RESOURCES LTD. (N.P.L.)

1418-355 BURRARD STREET, VANCOUVER 1, B.C. PHONE 681-8381

December 20, 1973.

Mr. Bill Sirola
Kerr Addison Mines Ltd.
1112 West Pender St.
Vancouver, B.C.

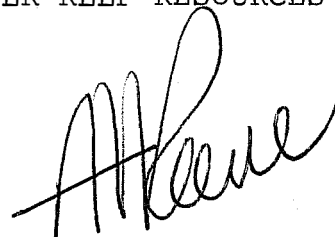
Dear Bill:

Enclosed are copies of the reports on Barrier's Corn Creek and Harrison Creek prospects in the Bonnet Plume River Region, Yukon Territory. It is my understanding that your company is interested jointly with Great Plains Development Company in these properties. Accordingly, I have also sent copies of the reports to Mr. Reynolds of Great Plains in Calgary.

Please get in touch with me after the New Year and let me know if you wish to meet and discuss an option arrangement with Barrier on one or both of these properties.

Yours very truly

BARRIER REEF RESOURCES LTD. (NPL)



A. F. Reeve

AFR/z
Encl: 2

*Retained 2 reports to
Bill Sirola Jan 21/74*

RECEIVED
DEC 27 1973

KERR ADDISON MINES LTD.

Per.....

BARRIER REEF RESOURCES LTD. (N.P.L.)

1418-355 BURRARD STREET, VANCOUVER 1, B.C. PHONE 681-8381

Thurs

November 23, 1973

Ch. Herb Cox
1506
44 King St. West

NOV 7 1973

REPORT TO SHAREHOLDERS

Dear Shareholder:

Exploration for the 1973 field season has been completed. The following is a summary of the work carried out and the results obtained.

A. YUKON PROSPECTING PROJECT

As noted in the August 17, 1973 report to the shareholders the company has acquired, by staking 3 properties, in the Bonnet Plume River Region, Yukon Territory.

Goz Creek Property

The Goz Creek property consists of 192 claims in an east-west trending block that is seven miles long and an average of two miles wide. It is located approximately 125 miles NE of Mayo, Y.T. Extensive outcrops containing zinc sulphides in bedded carbonate rocks have been found on the claims by preliminary prospecting. These outcrops represent a mineralized "belt" about 5 1/2 miles in length.

One mineralized bed has been mapped for a distance of 4,400' along strike. It appears to have an average thickness of 25 to 40 feet and dips at 27° southward approximately parallel to the hillside on which it occurs. The following are averaged assays of continuous chip samples taken across outcrops within this 4,400 foot interval. An assay plan showing the sample locations is attached.

<u>Sample Location</u>	<u>Sample Length</u>	<u>% Pb</u>	<u>% Zn in sulphides</u>	<u>% Zn Total</u>
N	10'	0.1	33.8	34.5
N	15'	0.1	49.8	51.6
N	35'	0.3	29.1	30.2
M	10'	1.0	36.4	37.2
J	10'	0.7	30.6	31.0
J	30'	1.0	13.6	15.4
L	30'	0.1	4.0	38.5
L	10'	0.2	17.1	19.6
E	10'	0.1	28.9	30.6
E	10'	0.1	21.1	22.4
D	50'	0.4	1.7	13.4
I	10'	2.7	14.9	19.4
<hr/>				
H	10'	0.1	12.2	16.9
80'	30'	0.1	1.6	15.1
Section	40'	0.1	1.3	11.8

<u>Sample Location</u>	<u>Sample Length</u>	<u>% Pb</u>	<u>% Zn in sulphides</u>	<u>% Zn Total</u>
K	10'	-	25.9	26.8
A				
100' Section	40'	0.1	1.5	13.8
	60'	0.2	24.4	25.3
A				
120' Section	60'	0.2	30.1	30.7
	60'	0.1	4.2	29.0
A	70'	0.1	1.6	31.4
B	15'	0.1	3.7	28.0
B	40'	0.3	17.4	18.0
C	40'	3.0	17.5	19.1

The "percent Zinc in sulphides" represents recoverable metal. "Total Zinc" includes metal contained in secondary minerals formed by surface oxidation. The relative content of recoverable zinc is expected to increase substantially a few feet below the weathered surface.

An exploration programme consisting of geological mapping and diamond drilling is planned for 1974. It is estimated that this work will cost approximately \$375,000, less any Northern Mineral Assistant Grant the company may obtain.

Harrison Creek Property

This is a group of 40 claims located about 10 miles west of Goz Creek. An extensive pyritic dolomite breccia zone occurs on the property. A surface sample 35 feet in length averaged 2.5% combined lead and zinc.

Corn Creek Property

This is a group of 56 claims. Lead, zinc and silver mineralization in carbonate rocks has been found at three locations on the claim group. The following assay results were obtained from chip samples:

<u>Sample Length</u>	<u>oz/T Ag.</u>	<u>% Pb</u>	<u>% Zn</u>
10'	0.96	1.35	8.10
10'	2.30	2.55	30.70
5'	17.50	19.50	41.75

B. ROBB LAKE JOINT VENTURE

The company owns a 20% carried interest in a lead-zinc prospect situated near Robb Lake in the northern Rocky Mountains, British Columbia. Ecstall Mining Limited, a subsidiary of Texasgulf Inc., and Arrow Inter-America Corporation, a subsidiary of W.R. Grace & Co., each have a 40% interest and are providing the funds for exploration and development work.

During the past field season holes #30 to #40 inclusive were drilled and #26 was deepened for a total footage of 8,975'. Eleven line-miles of induced polarization survey was completed. The drilling and geophysical surveys were

carried out in the "Webb Ridge" area at a cost of approximately \$190,000. More than \$700,000 has been spent on exploration at Robb Lake during the past 2 years.

The results of holes #30 to #35 were included in the report to shareholders dated August 17, 1973.

All of the following drill holes are vertical and the mineralized beds have a dip of 0° to 10° .

Approximate Co-ordinates

<u>Hole No.</u>	<u>North</u>	<u>East</u>	<u>From</u>	<u>To</u>	<u>Length</u>	<u>% Pb-Zn</u>
73-36	74,270	58,430	No significant mineralization			
73-37	74,120	60,000	557.5-567.5'		10.0'	5.4%
73-38	73,980	59,170	780.0-792.5'		12.5'	2.4%
73-39	73,750	60,320	486.0-500.0'		14.0'	2.6%
73-40	74,750	59,430	285.0-298.5'		13.5'	1.5%
72-26 Deepened	74,504	57,080	491.5-501.7'		10.2'	5.2%

The average estimated thickness of 23 drill hole intersections and 10 trench sections reported to date is 13.8' with an average grade of 8.1% combined lead and zinc.

Numerous geological targets on the property remain to be explored and it is anticipated that further drilling will be done in 1974.

C. OTHER INTERESTS IN THE ROBB LAKE AREA

The company owns 8 claims covering a lead prospect near Redfern Lake. No work was done on this property in 1973. The company also holds a 25% participating interest in two lead-zinc prospects south of Robb Lake; at the head of the Nabesche River (44 claims) and at Wicked Lake (64 claims). Thirty-two additional claims were staked in the Wicked Lake area this year. No exploration work was done in 1973.

D. MACKENZIE PROJECT

No work was done on this project in 1973. In 1974 the company plans to investigate a number of geochemical anomalies in the MacKenzie District outlined by reconnaissance work carried out in 1972.

E. DEER LAKE PROJECT

Deer Lake Mines Ltd. (N.P.L.), 70% owned by the company has optioned 46 of its 128 claims in the Little Fort area to Rio Tinto Canadian Exploration. Deer Lake retains a "20% net proceeds royalty" interest.

During 1973 Rio carried out an airborne magnetic survey, an induced polarization survey, geochemical sampling and geological mapping on the property. Copper mineralization has been found in an area of anomalous geochemical response. Further work which may include diamond drilling is planned by Rio.

F. ESP PROJECT

Tech Corporation carried out; soil sampling, a magnetometer survey, and an electromagnetic survey on the company's ESP claim group in the Aspen Grove area. The results of this work were negative and Tech has terminated its option on the ESP claims.

G. ARCTIC ISLANDS

The company is participating with Kapvik Exploration Ltd., a private British Columbia company, in a three year reconnaissance exploration project for lead and zinc in the Canadian Arctic Islands. The company's interest in this project is 4%. No mineral properties were acquired as a result of this years work.

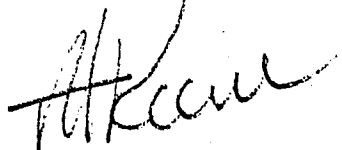
H. CHURCHILL - RACING RIVER AREA

The company owns five copper prospects covered by three blocks of claims in the Churchill-Racing River area of Northern British Columbia. No work is planned for these properties in the immediate future.

FINANCIAL

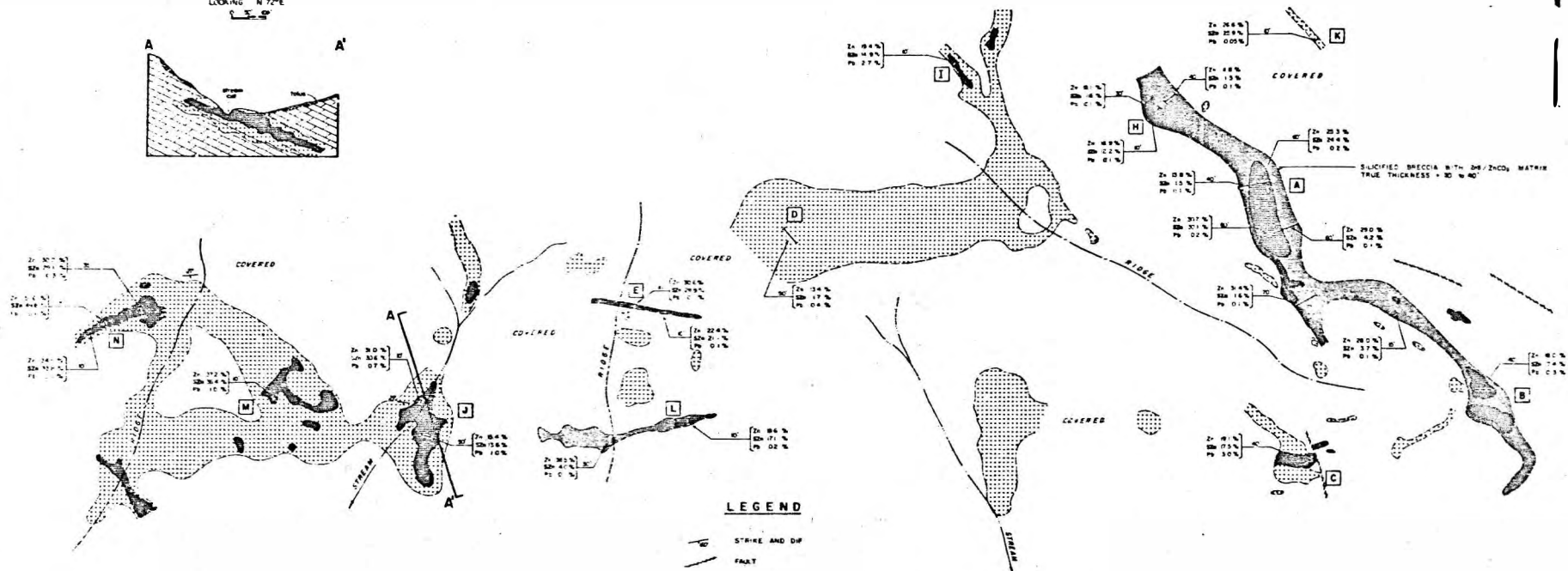
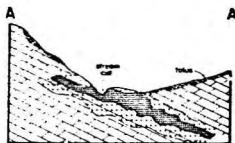
During 1973 the company expended \$170,000 on its exploration projects. Working capital of \$150,000 is presently on hand. Conwest Exploration Ltd. and Brinco Limited have each agreed, subject to approval of the British Columbia Securities Commission and the Vancouver Stock Exchange, to purchase 150,000 treasury shares from the company at \$1.10 to provide \$330,000 for drilling and mapping on the Goz Creek property in 1974.

On behalf of the Board



A.F. Reeve, President

X-SECTION
LOOKING N 72°E
1:5,000



- STRIKE AND DIP
- FAULT
- ZINC AND/OR LEAD SULFIDE MINERALIZATION
ASSAY AVERAGE 8% TO 30% COMBINED Pb-Zn
- ZINC AND/OR LEAD SULFIDE MINERALIZATION
ASSAY AVERAGE 0.5% TO 4% COMBINED Pb-Zn
- ZINC CARBONATE MINERALIZATION
ASSAY AVERAGE 8% TO 30% COMBINED Pb-Zn
- SAMPLE LOCATION WITH SAMPLE LENGTHS AND
ASSAYS FOR TOTAL ZINC, SULFIDE ZINC, AND LEAD
- LEAD-ZINC SHOWING DESIGNATION

NOTES

MAP BASED ON BRUNTON COMPASS AND
TAPE TRAVERSE
MAGNETIC DECLINATION 54°30'E (1973)

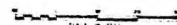
BARRIER REEF RESOURCES LTD (NPL)

ASSAY PLAN

GOZ CREEK PROPERTY

NADALEEN RIVER AREA (NTS 106C)

WAYO MINING DISTRICT, YUKON TERRITORY



COMPLETION ENGINEERING LTD