MAY 22 1979 ahre Sing LA Lassie ALLEN ESOURCE CONSULTANTS TD. GUY ALLEN, P.ENG. (B.C.), P.GEOL. (ALTA.) CONSULTING GEOLOGIST File SZE BOX 7248, POSTAL STATION "E" CALGARY, ALBERTA T3C 3M2 TELEPHONE (403) 266-6150 823396 1.6. slizzard May 15. 1979 Mr. D. A. Lowrie, M'T Vice President, Exploration, Kerr Addison Mines Ltd., P.O. Box 91, Commerce Court West,

Dear Mr. Lowrie,

M5L 1C7

Toronto / Ontario.

Re: Uranium Mineralization in British Columbia

Allen Resource Consultants Ltd. is in the final stages of completing a comprehensive, descriptive catalogue of uranium occurrences in the Province of British Columbia. The report will be ready for delivery on June 1, 1979.

Data for this compilation has been gleaned from British Columbia Minister of Mines Annual Reports, Bulletins, etc; as well as Geological Survey of Canada Publications; and issues of the George Cross Newsletters for the past decade. Approximately one hundred radioactive occurrences are described. An annual update for this catalogue will be available in subsequent years.

Attached herewith is a sample page, describing the Blizzard deposit. This is included to show the descriptive format that will be followed.

Price for the report is \$1,000.00 Canadian, with the annual update available for \$100 per year in subsequent years. Prepayment is required for delivery of the report. Should you wish to preview the material in the Calgary area, please contact me at the above address or telephone number. Reports will be forwarded on June 1, 1979, or thereafter upon receipt of payment.

Yours sincerely

Suy alley

Guy Allen, P. Eng.

NTS 82E/10

MINERAL OCCURRENCE

PROPERTY NAME: BLIZZARD

LOCATION: 25 km. NE of Beaverdell, adjoining the north ends of Lassie Lake and Joan Lake PRIMARY METAL: Uranium PRESENT OWNER: Lacana Mng. Opt. to Norcen Energy AXXXXXXXXXX: E & B Expl. Campbell Chibougamau & Ontario Hydro

SECONDARY METALS:

ORE MINERAL PRESENT: autunite; calcium-uranyl and magnesium-uranyl phosphates

GANGUE MINERAL: country rock

TYPE OF DEPOSIT: hydrogenic paleo-channel

- <u>GEOLOGY</u>: Pliocene to Miocene sedimentary sequence overlies a channel in the Cretaceous Valhalla granodiorite basement complex. Sediments include conglomerates, sandstones, and mudstones. Entire sequence is covered by a basalt cap over the entire property. The basement low persists through the deposit area and may mark a NW-SE major fault that is Cretaceous or pre-Cretaceous in age. Breccia pipe, located by drilling, includes chaotic assemblage of fragments of basement rocks, sediments and basalts. Pipe is younger and intrudes all rock units. At the contact of the basement and the sediments the regolith shows alteration through chemical weathering, 1 to 2 metres deep. Conglomerate zone generally just above basement.
- <u>MINERALIZATION</u>: Almost all uranium is found in sediments. It occurs generally at the base, and at the basement unconformity, and in zones within the sedimentary section itself. Breccia pipe is mineralized. Main ore zone is 1,600 metres long from north to south along the channel or fault trace. Most of the uranium occurs in sandstone or mudstone, with smaller amounts in conglomerate, and in the upper, highly weathered and altered part of the regolith. Formation theory is that the U₂O₈ has been leached by groundwater or meteoric waters from the granites and moved along fault-controlled channels through permeable sediments, and finally precipitated in a reducing environment.

ASSAYS:

A number of estimates of reserves have been made. The most recent are: 1. 3,000,000 tons of ore grading 4.3 lbs/T uranium oxide

before dilution

2. 2.1-2.2 million metric tons of ore containing just over 10 million lbs. recoverable uranium

EXPLORATION AND DEVELOPMENT HISTORY:

1975: Property staked by Lacana Mining Corporation on the basis of previous owner assessment reports
1976: Lacana program of scintillometer and geological surveys and drilling. Property optioned by Norcen Joint Venture
1977 & .1978: Norcen Joint Venture program of drilling 327 diamond drill holes (15,000 metres) and 65 rotary holes

PRODUCTION_RECORD: Nil

REFERENCES:

GCN: 6/6/78, 6/25/78, 11/14/78 BCMM: 1976-P.29 Norcen paper at Calgary MEG

ADDITIONAL REMARKS:

Norcen Joint Venture group can earn a 70% interest in the property by spending \$1.6 million Deposit considered mineable by open pit methods with a minimum of environmental problems