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KERR ALDISON MINES LIMITED

(FOR INTER-OFFICE USE ONLY)

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[Signature]

To D. A. Lowrie From W. M. Sirola

Subject CARMACKS COAL - GEOPHYSICAL RESPONSE Date 28th October 1976

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Enclosed please find a copy of a letter from Chuck Ager regarding some work that he did for us this month on determining the geophysical response of some coal specimens which John Carrington sent from the Anvil Mine. He also included some of the sandstone in which the coal was contained.

The only useable response is in resistivity contrast and in density contrast. Since neither of these parameters can be used from the air, I have asked Chuck to do some tests at Carmacks over locations supplied by Anvil Mines. It is always possible that despite the non-conductivity of the coal samples there may be structures which may prove conductive on one frequency or another. It is not likely that there will be any magnetic contrast, but Ager will run a magnetometer traverse as well. It would not surprise me greatly if he got some VLF response but whether or not this would be meaningful in terms of regional airborne work remains to be determined.

I will fill you in as soon as the results are available.

Bill

W.M. Sirola

WMS:1mp

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I.D.B.
A.H.C.
P.S.C.
W.J.
D.A.L.
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October 13, 1976

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

RE: Yukon Coal & Rock Sample Measurements

Dear Bill

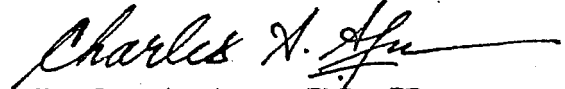
Enclosed is a table summarizing the results of our tests conducted on the coal and sandstone rock samples from your Yukon Coal Project. The following geophysical parameters were measured: resistivity, I.P. response, density, E.M. response, susceptibility and radioactivity. Negligable responses are shown as 'zeros' on the table. Each measurement was repeated at least 4 times to insure consistency of results.

Judging from the data, coal and sandstone display a sufficient geophysical contrast only in resistivity and density. All other parameters are not diagnostic of coal in sandstone.

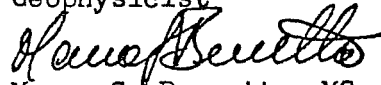
However, it is possible that there are structures and/or other geological units in-situ which may indicate different geophysical responses. This can be tested only in the field over known coal occurrences in the area of interest.

It is therefore recommended that field tests be conducted to augment the lab data. It will then be possible to devise the proper search technique.

Respectfully submitted,



Charles A. Ager, Ph.D., PEng.
Geophysicist



Mauro G. Berretta, MSc.
Geophysicist

CAA/ca
Encl.

YUKON COAL & ROCK SAMPLE MEASUREMENTS

GEOPHYSICAL PARAMETER	COAL #1	COAL #2	SAMPLE AVERAGE	SANDSTONE #1	SANDSTONE #2	SAMPLE AVERAGE
RESISTIVITY (ohm-m) (dry)	5,700	17,600	11,600	379	175	277
RESISTIVITY (ohm-m) (wet)	470	1,350	910	88	78	83
I.P. RESPONSE (msec) (electrodes in sample)	1.1	1.2	1.1	0.3	0.3	0.3
I.P. RESPONSE (msec) (% pfe) (elect. not in sample)	0.2 1	0.1 1	0.1 1	0.1 0	0.1 0	0.1 0
DENSITY (g/cc)	1.93	1.72	1.82	2.42	2.36	2.39
E.M. RESPONSE (%) (875 htz)	0	0	0	0	0	0
SUSCEPTIBILITY (cgs)	0	0	0	0	0	0
RADIOACTIVITY (cpm) (Th,K,U)	0	0	0	0	0	0