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EXGALIBUR INTERNATIONAL GONSULTANTS LTD.

1522 Clearwater Drive, Mississauga, Ont., Canada LSE 3A3 · Tel. (416) 278-1545



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REPORT OF RADIOMETRIC SURVEY KASHAWEOGAMA LAKE CLAIMS SAVANT LAKE AREA, ONTARIO

RECEN JAN 3 0 1920 PROJECTS UNIT

for

RAY G. RAMSAY

by

J. B. Boniwell Exploration Geophysical Consultant

January 8, 1978



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52J07NE0031 52J07NE003881 GREBE LAKE

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LIST OF DRAWINGS

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Dwg. No.TitleScaleEIC - 338Grid Plan with Radiometric Profiles1" = 400"



INTRODUCTION

The claims holdings at Kashaweogamma Lake protect an iron-ore prospect set in silica-rich Algoma-type formations. A number of minerals have been deposited in this eugeosynclinal environment, and it was not known whether uranium might have been one of them. Given present-day prices and demand for uranium oxide, a first-pass effort to find out was seen as a worthwhile exercise.

Accordingly a radiometric survey was conducted over the claims in late 1977. Results are presented herein.

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DESCRIPTION OF PROPERTY

The claims covered in this investigation are given below. They total 15 in number, all within the Patricia Mining Division, north-west Ontario.

Claim No.	Twp.
PA 295106	-
PA 295107	Conant
PA 295108	-
PA 295109	-
PA 328248	Conant
PA 328249	McCubbin
PA 328250	McCubbin
PA 328251	McCubbin & Conant
PA 328252	McCubbin & Conant
PA 346602	McCubbin
PA 346603	-
PA 346604	-
PA 346605	-
ра 346606	-
PA 346607	-

Each claim is a nominal 40 acres and is contiguous with its neighbour. The single coherent block so formed sits astride the common boundary between McCubbin and Conant Townships and the boundary both provide with the unsurveyed territory lying to the west. All claims are registered in the name of Mr. R. G. Ramsay of 10 Cook Street, Barrie, Ontario.

Access to the property is readily had overland from the Pickle Lake road (Ontario highway 599) which passes a scant 3 miles east of the property centre 12 miles north of the Savant Lake station on the C.N.R, transcontinental railway. The final section from highway 599 involves an old drill road which is amenable to



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appropriate bush vehicle transport in both summer and winter seasons.

Typical northern forest prevails throughout, spruce mainly, some birch and poplar in drained areas. The relief is minor but varies between outcrop or nearoutcrop sections and muskeg swamp. Lee Lake to the north and Shallow Lake to the south, albeit relatively small, encroach upon the property from both sides.



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WORK UNDERTAKEN

A pre-existing grid of lines wes utilized for present survey purposes. The spacing between lines on this grid varies, and not all lines were traversed, but the maximum separation never exceeded 400'. Stations along lines were occupied every 100' invariably.

The radiation measurements were effected with an ACR Geiger counter, model 161, manufactured by Industrial Services of Winnipeg, Manitoba. The sensitivity of this instrument is such that approximately 30 counts per minute is the equivalent of 0.005 milliröentgen per hour, and on the lowest range 30 counts per minute amounts to about one-quarter full scale deflection.

In the field, all the measurements were taken at ground level at the base of the reading station picket. The survey work itself was carried out by Mr. R. G. Ramsay of 10 Cook St., Barrie, Ontario between the 17th - 19th October, 1977. The statistical totals pertaining are:

> Line traversed: Radiometric stations read:

10.4 miles 570



DISCUSSION OF RESULTS

Despite the fact the Geiger counter is not a very sensitive measuring device for radioactivity - it primarily responds to beta radiation only - nevertheless it will, when operated in the manner described, provide a first order indication of anomalous concentrations of radioactive minerals in near-outcrop conditions. Thus the complete lack of any major departure from the narrow range of values 27-47 counts per minute is quite significant (Dwg, No. EIC-338); indeed the highest value recorded in the survey is 57, the lowest 17, that is, a symmetrical unimodal distribution prevails. In short there is no anomaly anywhere through the grid area.

This inescapable fact is additionally brought home by a comparison of recorded results with local physiographic condition. The transitions along traverses from outcrop to swamp to esker to creek exert no observable and consistent influence on the data whatsoever. The results are truly random therefore and reflect no more than the usual variance of radioactive data in background.



CONCLUSIONS AND RECOMMENDATIONS

It can be readily concluded there is no radioactive anomaly present within the subject claims. Such an outcome is not unduly surprising, but uranium being the widespread element it is (and increasingly it is being demonstrated it occurs in a far wider range of settings than hitherto conceived), it could not be excluded here as a mineral possibility without the necessary testing. That possibility has now been put to rest.

No further action is recommended on the basis of the present survey results.

J. B. Boniwell Exploration Geophysical Consultant

JBB:sb January 8, 1978



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File 2.2403

If space insufficient, attach list

GEOPHYSICAL -- GEOLOGICAL -- GEOCHEMICAL TECHNICAL DATA STATEMENT

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TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Township or Area M^{C} (IRR i ALTOWINSHIP + C REGE LARDClaim holder(s) $R.C. RAMSAY$ IN CORR ST GARDI'S LAY FMINING CLAIMS TRAVERSIList numericallyAuthor of Report $J.G. Gen i MIELLAddress 1S 2 2 CLEAR WATE ?? OR: VE Miss, ssalerCovering Dates of Survey OCT. 17/22 C JFME 8/27 CNTCovering Dates of Survey OCT. 17/22 C JFME 8/27 CNT(Inceutting to office? AI.DRIVE Miss, ssalerPA: 295-16 8PA: 295-16 9(Inceutting to office? AI.DAYSper claimPA: 328 25 ODAYSPA: 328 25 O$. D
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ENTER 20 days for each -Other	
additional survey using Geological PA. 341.6.6.9.2.	
same grid. Geochemical PA 34660.3	
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)	
Magnetometer Electromagnetic Radiometric	
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PROJECTS SECTION 2. D	
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GEOPHYSICAL TECHNICAL DATA

Number of Readings <u>P. M.</u> f survey)	570
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Instrument	Range
Survey Method	
Corrections made	
RADIOMETRIC	
Instrument A.R.C. GIE G.	ER COMMTER ANOLEL 161
Values measured BET.9 RAdj.	a Tion.
Energy windows (levels)	
Height of instrument <u>GROUARD</u> 4.15 Size of detector 3"	NBL Background Count 24-47 (P.M.
Overburden <u>LAY, SANA, 6-RAVS</u>	AVE, CHEPT, 0.5 FF. LOCAL CEPTA TO 40 FT. ype, depth - include outcrop map) GECLOGICAL MAR includece Mith CERCOF
OTHERS (SEISMIC, DRILL WELL LOGGIN	IG ETC.)
Type of survey	
Instrument	
Accuracy	
Parameters meașured	
Additional information (for understanding re	esults)
AIRBORNE SURVEYS	
Instrument(s)	
(1	specify for each type of survey)
Accuracy(i	specify for each type of survey)
Aircraft used	
Sensor altitude	
Navigation and flight path recovery method.	
Aircraft altitude	Line Spacing
Miles flown over total area	Over claims only

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Lands Administration Branch

Projects Unit

Technical Assessment Work Credits

File	,					
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Recorded Holder

Natural

Resources

Raymond G. Ramsay

Township or Area

Conant Township, and Grebe Lake & McCubbin Twp.

Type of survey and number of Assessment days credit per claim	Mining Claims
Geophysical Electromagnetic days	P. 295106 to 09 inclusive
Magnetometer days	346602 to 07 "
Radiometric 20 days	
Induced polarization days	
Section 86 (18) days	
Geological days	
Geochemical days	· ·
Man days Airborne	
Special provision 🔀 Ground 🖏	
Notice of Intent to be issued:	
coverage of claims.	
Credits have been reduced because of corrections to work dates and figures of applicant.	
No credits have been allowed for the following mining claims as they were not sufficiently covered by the survey:	

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40;



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Ministry of Natural Resources

Your file:

1978-06-28

Our file: 2.2603

Mrs. Doris Cosco Acting Mining Recorder Ministry of Natural Resources P.O. Box 669 Court House Sioux Lookout, Ontario POV 2T0

Dear Mrs. Cosco:

Re: Mining Claims Pa. P. 295106 et al, Conant Township and Grebe Lake & McCubbin Township, File 2.2603

The Geophysical (Radiometric) assessment work credits as shown on the attached statement have been <u>approved</u> as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours very truly,

J. R. McGinn, Director Lands Administration Branch Whitney Block, Room 6404 Queen's Park Toronto, Ontario MJA 1W3 Phone: 416-965-6918

DN/mw

cc: Mr. Raymond Ramsay Barrie, Ontario

cc: Resident Geologist Sioux Lookout, Ontario



SEE ACCOMPANYING MAP(S) IDENTIFIED AS 52J/07NE-0038B#12 LOCATED IN THE MAP

CHANNEL IN THE FOLLOWING SEQUENCE (X)





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STRUMENTATION	nter	Mod	el I	161
ID LINE WITH 100' STATIONS				
OUNTS PER MINUTE	45	30	50	37
DIOMETRIC PROFILES (1"= 100 cpm)		. ~	./	\sim
AIM POST (located)				
AIM LINE				

MCCUBBIN TOWNSHIP

52J/07NE-0038.BI,#1 KASHAWEOGAMA LAKE IRON PROSPECT PATRICIA M.D., ONTARIO RADIOMETRIC PROFILES SCALE I" = 400' NOVEMBER 1975 WORK UNDERTAKEN BY EXCALIBUR INTERNATIONAL CONSULTANTS LTD. TORONTO, CANADA

Dwg.Nº E.I.C.- 338

EGEND CENOZOIC RECENT Unconsolidated Swamp and Stream Deposits PLEISTOCENE Unconsolidated Clay, Sand, Gravel, and Boulde GREAT UNCONFORMITY PRECAMBRIAN ARCHEAN LATE MAFIC INTRUSIVES 4a Gabbro, Amphibolite 4b. Diorite IRON FORMATION Algoma Type: Quartz-Magnetite 31 RICHER PHASE 32 3 LEANER PHASE ŧ -2 METASEDIMENTS Greywacke, Arkose, Argillite, Chert METAVOLCANICS FELSIC TO INTERMEDIATE 1 Dacite, Andesite, Tuffs 00 BEDROCK OUTCROP YX BEDDING, TOP UNKOWN (INCLINED, VERTICAL BEDDING TOP (ARROW) FROM GRAIN GRADATION X ERTICAL XX SCHISTOSITY (INCLINED ; VERTICAL) FLIATION (VERTICAL) -----NCLINAL AXIS OLOGICAL BOUNDAR ----ULT -----ENCH, PI 0 ●PG-2-57 SOURC OF INFORMATION ALGOMA STEEL CORP LTD. (ALGOMA ORE, DIV.) EXPLORATION DEPT. MAPS AND PLANS ONTARIO DV OF MINES W.D. BOND: PRELIM GEOL MAPS: MC CUBBIN TWP 1972 CONANT TWP 1973 GEOLOGY 1971, 1972, 1975 COMPILE AND DRAWN BY: GC SHARPE SEPT. I المتصرف المعاد ويردحه