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PROSPECTING GEOPHYSICS LTD.

GEOPHYSICAL & GEOLOGICAL SURVEYS

70 CHISWELL CRESCENT, WILLOWDALE, ONTARIO M2N 6EI + TEL. 416-226-2368

REPORT ON GEOCHEMICAL SOIL SAMPLING SURVEY **ON PROPERTY OF** MACMILLAN ENERGY CORP., LTD. MISHIBISHU LAKE AREA, ONTARIO

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WILLOWDALE, ONTARIO

DECEMBER 30, 1985



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REPORT ON GEOCHEMICAL SOIL SAMPLING SURVEY ON PROPERTY OF MACMILLAN ENERGY CORP., LTD. MISHIBISHU LAKE AREA, ONTARIO

INTRODUCTION

A surface exploration program was carried out on the property of MacMillan Energy Corp. Ltd. in November-December, 1984. The program consisted of geochemical soil sampling and V.L.F. electromagnetic surveys in three separate areas of the property. The object of the program was to obtain targets for a diamond drilling program planned for 1985.

The results of the exploration are covered in the writer's report dated February 6, 1985, at which time, recommendations were made for the future exploration of the property. The program outlined some targets for further exploration southeast of the Westfield-Windarra ground, but no work had been done to investigate the area northwest of their property, where drilling had shown good gold values in the Magnacon zone. As a result, it was recommended that any investigation by diamond drilling on the MacMillan ground be deferred until Westfield completed their drilling and further exploration was carried out on the MacMillan property to investigate the northwest extension of the Westfield-Windarra shear zone.

A geochemical soil sampling survey has recently been completed, covering some 274 claims on the MacMillan property. This includes all of the claims to the west of the Westfield-Windarra property, where drilling is presently in progress by Muschocho Explorations Ltd. The following report and accompanying maps describe the results of the survey and provides recommendations for the further exploration of the property.

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PROPERTY

The MacMillan Energy Corp. property originally consisted of 1,083 contiguous unpatented claims in the Mishibishu Lake area of Ontario. The ground on which the present and 1984 exploration programs have been conducted includes 340 claims, that completely surround the Muschoco-Westfield-Windarra holdings. The list of claims are shown in Appendix A.

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The property is situated some 72 kilometres southeast of Hemlo, but is only about 40 kilometres west of the Trans-Canada Highway. Access and service are by fixed wing aircraft to Mishibishu Lake and helicopter from White River.

PREVIOUS WORK

Previous work on the MacMillan Energy property has consisted of airborne geophysical surveys followed by ground exploration programs in selected areas in the summers of 1983 and 1984. These latter programs included prospecting, sampling, geological mapping, geochemical soil sampling and electromagnetic surveys which outlined some targets for further exploration.

Considerable diamond drilling has now been completed on the 59 claim group referred to as the Westfield-Windarra property which is completely surrounded by the MacMillan claims. The results of this work have been very encouraging and there is every indication that the strong shear zone within which the gold-bearing zones occur, extends into the MacMillan ground both to the northwest and Southeast. The latest results reported by Muschocho Explorations Ltd., the operator, shows a drill intersection of 1.04 oz. 9014 per ton over 4.5 feet within 1,600 feet (487 m) of their west boundary with MacMillan Energy's property.

GEOLOGY

The geology of the MacMillan **Property** has been described in previous reports by the writer **and** is briefly described here

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GEOLOGY (cont'd.)

for use in the interpretation of the results of the exploration program. The property of MacMillan Energy Corp. Ltd. is located within a northwest trending belt of early Precambrian Archean metavolcanic and metasedimentary rocks referred to as the Mishibishu Lake belt. The belt is intruded by both granitic and ultrabasic rocks. The rock types found on both the MacMillan and the 59 claim property now being explored by Westfield Minerals and Muschocho Explorations, includes a sequence of intermediate to basic metavolcanics overlain by felsic metavolcanic rocks. The felsic metavolcanics are normally tuffaceous with some interbedded argillaceous and other sediments. A fairly wide band of felsic metavolcanics interbedded with sediments extends across both the MacMillan and Westfield-Muschocho properties in a northwest direction.

Both the metasediments and the underlying metavolcanics have been intruded by basic and felsic intrusives. The most prominent intrusive in the vicinity of the MacMillan property is the Mishibishu Lake stock, which is a body of massive porphyritic monzonite covering an area of about 28 square kilometres. It intrudes the metasedimentary and metavolcanic assemblage around Mishibishu Lake, Mishi Lake, and Katzenbach Lake. The MacMillan property covers the north contact of the intrusive with the metasedimentary-metavolcanic rocks.

The metasedimentary-metavolcanic assemblage is favourable for both gold and base metal mineralization, but most of the exploration and discoveries have been for gold. The most significant discoveries in the area to-date are those north of the Mishibishu Lake on the 59 claim group which is completely surrounded by the MacMillan claims. The west block of 19 claims is now being developed by Muschocho Explorations Ltd., and the balance of 49 claims by Westfield Minerals Ltd.

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GEOLOGY (cont'd.)

The gold mineralization found on the 59 claims group is associated with a major northwest striking shear zone that extends across the property for a length of 6,700 metres, with a width up to 760 metres. The shear zone is strong and quite continuous and almost certainly extends onto the Mac-Millan ground. As mentioned earlier, drilling by Muschocho Explorations Ltd. has obtained economic values within 487 metres of the MacMillan property.

The gold mineralization is found in quartz and quartzcarbonate veins, and also in pyritic cherty tuff units. Geological mapping on the MacNillan property has revealed outcrops that contain similar cherty tuffs with disseminated pyrite on the projected strike of the shear zone.

Drilling to-date on the Magnacon zone by Muschocho Explorations Ltd. has indicated that the gold bearing zone has a fairly flat dip to the north. The initial drill results extend to a depth of 500 feet but the zone is still open at depth and along strike in both directions.

SURVEY METHODS AND PROCEDURE

The soil sampling was carried out in three areas on the property, two of which are contiguous. The samples were taken along north-south lines at 200 metre intervals that have been blazed and flagged. The sample interval along the lines is 60 metres with the exception of a portion of the Western Grid where the lines were at 100 metre spacing and the samples at 25 metres.

The samples were taken of the "B" horizon where feasible but where this was not possible, a sample of the humus material was obtained. These were later dried and sieved to obtain a minus 80 mesh fraction and then sent to the assay laboratory for gold determinations. The analysis was carried out by fire assaying, using the aqua regia extraction method and the results -5-

SURVEY METHODS AND PROCEDURE (cont'd.)

are reported in parts per billion. The lower detection limit for a 10 gram sample is 5 ppb and anything less than 5 ppb is reported as < 5.

The Western and Central Grids that are contiguous use a common base line (Base line O) that was cut and chained for a length of some 9,400 metres. However, the surveys on each grid were carried out independently and use two different systems for numbering the lines. The Western Grid has line numbers from LO, L65E etc., to L780E and L65W etc., to L1170W. The Central Grid starts at L0 north of the base line and the line numbers are L7E, L14E etc., to L308E.

RESULTS OF THE SURVEY

The soil sampling survey was of a reconnaissance nature due to the extensive coverage. As mentioned previously, the work was carried out in three areas and these are referred to as the West, Central and East Grids. The West and Central Grids are contiguous but the East Grid is in a separate area adjacent to the 1984 grid, as shown on the key map.

The results are plotted on four separate but contiguous maps on a scale of 1:5000 and only results of 5 ppb or higher are shown on the maps. All other values are below the limit of detection and only the sample location is shown on the map. In addition to the four maps referred to as Plates 1, 2, 3 and 4, a geological map of the property (Fig. 3) is included and the areas covered by the surveys carried out in 1985 and 1984 are shown. Approximate locations of all geochemical anomalies found in the surveys are shown on this map and these are discussed below.

Plates 1 and 2

Plate 1 covers most of the area west of the Muschocho-Westfield-Windarra holdings, while Plate 2 covers the area

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<u>Plates 1 and 2</u> (cont'd.)

surveyed north and south of their holdings. There are a number of very interesting geochemical anomalies on these maps, particularly in the areas immediately west and south of the Muschocho ground where drilling of the Magnacon zone has been underway.

The major a omalous area is on claims 601822 and 601823 starting at line 0 and extending eastward to the boundary with the Muschocho ground, a distance of about 1,000 metres. There would appear to be several parallel zones, but the values are not continuous. This area is surveyed using line spacing at 100 metres and the sampling interval is 25 metres. Values range from 10 to 720 ppb and there are numerous values over 100 ppb, so it would appear that the gold-bearing zone that exists on the Muschocho ground extends onto the MacMillan property. Further west, on the MacMillan property on line 195W, there is a high of 2100 ppb which is on strike with the above zone, but another 600 metres west. This would be in the vicinity of a surface gold assay of 0.06 oz. gold per ton. (See Fig. 3)

Further to the south on Plate 1, some rather continuous and high values were found on line 260W. These range from 10 to 2000 ppb and cover a width of over 500 metres. Nothing was found on either side of this, but one must remember that the line spacing here is 200 metres. The values appear to be in the vicinity of a creek that actually comes from the Muschocho ground, and the creek also goes through another anomalous area on the MacMillan ground, south of the Muschocho property. There is thus the possibility that these values have been transported by the creek.

Another strong anomalous area is shown on Plate 2 south and west of the Muschocho ground. Anomalous values are found at the north ends of lines 650E, 715E and 780E in claim 601742.

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Plates 1 and 2 (cont'd.)

This is very close to the boundary of the Muschocho property and would appear to represent something separate from their drill indicated zones. Further south on line 215E there is a wide area of anomalous values up to 1740 ppb, but the lires immediately west have little in the way of anomalous values. However, on line 390E, some 900 metres to the west, some further values are found along the projected strike. This is in the vicinity of known surface gold values and a northeast striking fault zone, thus making a favourable geological environment.

The western part of Plate 1 and the northern portion of Plate 2 show only isolated anomalous values and thus, without more detailed work, it is difficult to assess their significance. On line 361E in claim 601765, a value of 275 ppb was obtained north of the Westfield ground, but the potential of this ground is the down-dip extension of the gold-bearing zones outlined in both the Muschocho and Westfield drilling. Diamond drilling has shown that the zones dip quite flatly to the north and thus could extend onto the MacMillan ground at a reasonable depth.

<u>Plate 3</u>

This map covers the area immediately east of Plate 2, which is the balance of the Central Grid, which covers the ground north of the Westfield property. The map also covers part of the area surveyed in 1984, the results of which are shown on Plate 15 Mishi Lake, 1984. (See Fig. 3)

Only isolated values were found in this part of the 1985 survey, such as on line 273E, claim 601727, with a value of 90 ppb. On line 182E at the north end, a value of 1295 ppb was obtained, but this appears to be off the property. -8-

Plate 4

This map covers the East Grid which is located some 3,600 metres southeast of the Westfield-Windarra holdings and is immediately southeast of the work carried out in 1984 on the Mishi grid - Plate 2S (See Fig. 3) The survey in 1984 outlined some anomalous values along the projected strike of the Westfield gold-bearing zone as shown on Fig. 3.

The present survey on the East grid has encountered some rather interesting values in the south-central portion of claims 644679 and 661005. Anomalous values with a high of 2870 ppb were obtained on two lines 200 metres apart. Line 49 has a series of anomalous values and since the samples are at 60 metre intervals, this is fairly significant. The trend of the anomaly appears to be northwest and there are a few scattered values above background further northwest but they are rather isolated. The geological location of this anomaly appears to be at the southwest end of a narrow band of felsic metavolcanics and about 400 metres west of a gold occurrence (See Fig. 3) This is on the general trend of other geochemical anomalies picked up in previous surveys and would be within the projected extension of the favourable horizon extending through the Muschocho-Westfield holdings.

The other anomalous area is further to the east and contains mostly low values but one sample gave 1780 ppb. This, again, appears to be related to a lens of felsic metavolcanics.

CONCLUSIONS AND RECOMMENDATIONS

The geochemical soil sampling program recently completed has been successful in outlining several areas of potential gold-bearing zones. These results, combined with those of the 1984 program, clearly indicate that the favourable goldbearing horizon that crosses the Muschocho-Westfield holdings, extends onto the MacMillan property, both to the northwest -9-

<u>CONCLUSIONS AND RECOMMENDATIONS</u> (cont'd.)

and southeast. This is particularly noticeable to the west of the Muschocho ground where anomalous values are found along atrike for over 1000 metres. Since this is the area that aconomic gold values have been obtained in drilling on the Muschocho ground within 250 metres of the MacNillan boundary, the anomalous values are particularly significant.

In addition to the anomalies along the strike of the Muschocho-Westfield zone, there are other significant anomalies On the MacMillan property that suggest new gold-bearing zones. The most important area is just south of the Muschocho ground Where anomalous values are found in a favourable geological Anvironment and there is some known gold mineralization.

Another significant area is in the southern part of the MacMillan ground where soil sampling gave good values in the Vicinity of a creek. All of these areas warrant further investigation.

Diamond drilling is recommended for the area immediately West of the Muschocho ground, which could consist initially of a north-south cross-section. The cross-section should be located after correlating the geochemical results with available information from Muschocho Explorations Ltd.

The second area that is a potential drill target is that In the south of the Muschocho ground. However, prior to Urilling here, it is important that the property boundary be accurately determined and again, correlation with available data on the Muschocho ground is important.

It is recommended that the other anomalies be investigated by prospecting and geological examination as it is quite bissible some of them could be explored initially by trenching.

> Respectfully submitted, PROSPECTING GEOPHYSICS LTD.

Willowdale, Ontario U**ece**mber 30, 1985

mar Bergmann, P.

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APPENDIX A

List of Claims Covered in 1984 & 1985 Exploration Programs

SSM 601900 SSM 629242 TO 629239 SSM 629245 SSM 601601 to 601612 SSM 601628 to 601639 SSM 601655 to 601666 SSM 601674 to 601685 SSM 601689 to 601782 SSM 601784 to 601836 SSM 722575 to 722590 SSM 644598 to 644599 SSM 644601 to 644604 SSM 644608 to 644610 SSM 644616 to 644618 SSM 644600 SSM 644605 to 644607 SSM 601882 to 601897 SSM 601839 to 601858 SSM 601861 to 601879 SSM 644648 to 644661 SSM 644663 to 644681 SSM 661003 to 661005 SSM 661008 to 661010 SSM 661051 to 661052 SSM 661056 to 661057 SSM 661061 to 661062 SSM 661066 to 661067 SSM 661071 to 661072 SSM 661080 SSM 661088 to 661089

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	Type of Survey(s) Geochemical Soil Sampling	
	Township or Area Mishibishu Lake Area and St.Germa	
•	Claim Holder(s) MacMillan Energy Corp. Ltd.	List numerically
	Survey Company Prospecting Geophysics Ltd.	
	Author of Report H. J. Bergmann, P. Eng.	(prefix) (number)
	Address of Author 70 Chiswell Crescent Willowdale,	0 tSeea.ttachedl.i.st
. ·	Covering Dates of Survey Sept. 18-Dec. 30, 1985	
	Total Miles of Line Cut31.8	
•	SPECIAL PROVISIONS CREDITS REQUESTED Geophysical DAYS	•••••
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GEOCHEMICAL SURVEY – PROCEDURE RECORD

Total Number of Samples4945	ANALYTICAL METHODS
Type of SampleClay_and_humous	Values expressed in: per cent
Average Sample Weight	p. p. m.
Method of Collection Hand augur	p. p. b. لكنا
	Cu, Pb, Zn, Ni, Co, Ag, Mo, As, (circle)
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LIST OF CLAIMS

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CLAIM NUMBERS

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* 601601	to	601612		12	
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- 601674	to	601685		12	
- 601689	to	601761	,	73	
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Certificati	on Verifying Rep	ort of Work/	(nci)	2			- Star	ang	
I hereby	certify that I have	a personal and intimate k	nowledge of	the facts set	forth in the Report	of Work ar	nexed hereto	, having performe	d the work
or with	essed same during an Postal Address of Pe	navor atter its completion	and the ann	exed report	s (rue.				
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Assessment Work Breakdown

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LIST OF CLAIMS

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CLAIM NUMBERS

NUMBER OF CLAIMS

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- 601655 to 60166	5		12
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∕601763 to 60178	2		20
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> 601827 to 60183	6		10
601839 to 60185	8		20
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<u>601882</u> to 60189	2		16
- 601900	1		1
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√ 629242 to 62924	3		2
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TOTAL NUMBER OF CLAIMS:

258 - <u>3</u> 255

H. J. BERGMANN, P. ENG.

MINING ENGINEER

70 CHISWELL CRESCENT WILLOWDALE, ONTARIO M2N 6EI

TELEPHONE:(416) 226-2388

March February 20, 1986

Mr. S. E. Yundt, Director Land Management Branch Whitney Block-Queen's Park Room 6643 Toronto, Ontario M7A 1W3

Dear Mr. Yundt:

Enclosed you will find two copies of the report and maps covering geochemical soil sampling surveys carried out on the property of MacMillan Energy Corp. Ltd. in the Mishibishu Lake area.

The work has been filed with the Mining Recorder at Sault Ste. Marie, Ontario. If there is any further information required, please let me know.

Yours very truly,

Derman H. J. BER&MANN, P. Eng.

HJB:bss Encls.



April 4, 1986

File: 2.8993

Mining Recorder Ministry of Northern Development and Hines 875 Queen Street East Box 669 Sault Ste. Marie, Ontario P6A 2B3

Dear Madam:

We received reports and maps on March 27, 1986 for a Geochemical Survey submitted under Special Provisions (credit for Performance and Coverage) on Hining Claims SSH 601900, et al, in the Area of Hishibishu Lake and St. Germain.

This material will be examined and assessed and a statement of assessment work credits will be issued.

We do not have a copy of the report of work which is normally filed with your office prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours sincerely.

J.C. Smith, Supervisor Hining Lands Section

Whitney Block, 6th Floor Queen's Park Toronto, Ontario M7A 1W3

Telephone: (416) 965-4888

AB/mc

cc: HacHillan Energy Corp. Suite 810 625 Howe Street Vancouver, B.C. V6C 2T6

H.J. Bergmann 70 Chiswell Crescent Willowdale, Untario M2N 6E1

SEE ACCOMPANYING MAP(5)IDENTIFIED AS 42C/03 NW-0017 #1-2 LOCATED IN THE MAP CHANNEL IN THE FOLLOWING SEQUENCE (X)



FOR ADDITIONAL INFORMATION SEE MAPS: 42c/03 NW-0017 #3-5





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LOCATION MAP

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