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REPORT ON THE

MCCOMBE MINING COMPANY

SWIMIT LAKE GOLD PROSPECT

Pickerel Township, Patricia Mining Division,
District of Kenora, Northwestern Ontario

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Pickereel Township, Patricia Mining Division,
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Pickerel Township, Patricia Mining Division, District of Kenora
Northwestern Ontario

by:

Gordon W. Moore, B.Sc., P.Eng.,
Consulting Mining Engineer.

Toronto, Ontario
3rd August, 1959.

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FOREWORD

The writer has made two trips to this property in May, 1946 and in June, 1959. On both occasions the major portion of one day was spent on the property mainly on the examination and some sampling of the main ore zones.

Mining Engineer, Robert McCombe conducted the writer on both examinations of the property and also kindly supplied him with all available data pertaining to the property in general and the main ore zone in particular.

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REPORT

ON THE

McCOMBE MINING COMPANY'S SWIMIT LAKE GOLD PROSPECT

Pickerel Township, Patricia Mining Division, District of Kenora,
Northwestern Ontario.

CONCLUSION AND RECOMMENDATIONS

The Company's property is well located geographically and the geological conditions appear to be very favourable to the deposition of gold in economic quantities.

The main gold bearing zone of mineralized quartz and schist has been traced for a length of 1,600 feet and may extend considerably further.

As can be seen by referring to the assay results, shown under "Sampling" in this report, very high gold values have been found in many places along the zone.

The vein is considered comparable to promising free gold occurrences that the writer has examined although in this case very little of the gold is free but rather, it is intimately contained along the edges of the galena, sphalerite and chalcopryrite grains which are frequently found in the zone. It is considered that this zone should be explored in a similar manner to erratic but nevertheless promising free gold occurrences.

It will be necessary, due to the erratic but high grade nature of the zone, and also due to the amount of the zone that is drift covered, to do considerable close probing by diamond drilling in order to explore it properly. It is therefore recommended that 5,000 feet of diamond drilling be allotted to the exploration of the main zone

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REPORT
ON THE
HOCOMBE MINING COMPANY'S SHIMIT LAKE GOLD PROSPECT

Pickarel Township, Patricia Mining Division, District of Kenora,
Northwestern Ontario.

CONCLUSION AND RECOMMENDATIONS

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Conclusion and Recommendations (Cont'd)

and possible parallel neighbouring veins or zones.

Contemporaneously with this drilling it is suggested that other known quartz zones be further prospected, trenched and sampled and that the entire claim group be prospected carefully by a group of experienced men.

It is considered that the main zone, and indeed the general area covered by the claims, show much promise and therefore the above recommended work is considered to be well warranted.

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Conclusion and Recommendations (Cont'd)

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PROPERTY AND LOCATION

The property consists of eighteen mining claims as follows:

Two patented claims - H.W. 635 AND 636 AND

Sixteen unpatented claims - Pa. 22396 to 22402 and Pa. 22573 to 22581, both inclusive.

This claim group is located in the southwest portion of Pickerel Township, Patricia Mining Division, Sioux Lookout Area, District of Kenora, Northwestern Ontario

The claims are recorded in the name of McCombe Mining and Exploration Ltd.

The property is located some 23 miles southwest of the town of Sioux Lookout, a divisional point on the Canadian National Railway, and are readily accessible by plane via Swimit Lake which is just a short distance south of the property.

The claims may also be reached by water from Sioux Lookout via Abram Lake and Pickerel Area, Minnitake Lake, thence finally to the property via a trail 2 3/4 miles long.

The property is only about four miles south of the Sioux Lookout Dinorwich Highway, No. 72.

Electric power is available at Newlund Mines less than six miles northwest of the property.

New Dickenson Mines Limited have fairly recently optioned the property adjoining these claims to the southwest from a prospector named Rivers and have added to this property by further staking of their own.

TOPOGRAPHY

The claims occupy a generally hilly area through which quite pronounced ridges occur running northeast-southwest. The ground between these ridges is covered by overburden and muskeg.

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The property is located some 23 miles southwest of the town of Sioux Lookout, a divisional point on the Canadian National Railway, and are readily accessible by plane via Spirit Lake which is just a short distance south of the property.

The claims may also be reached by water from Sioux Lookout via Abram Lake and Pickarel Area, Minitake Lake, thence finally to the property via a trail $2\frac{1}{2}$ miles long.

The property is only about four miles south of the Sioux Lookout Sinoewich Highway, No. 72.

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Topography (Cont'd)

Rock outcrops, while generally scarce, are nevertheless sufficiently numerous to give a good idea of the rock formations underlying the property.

HISTORY

Gold is first reported to have been discovered on these claims about 1898 at which time there was considerable prospecting activity in the general area.

The gold discovery was made on what was known as the Schmidt Wallbridge property on two claims, now patented, numbered H.W. 635 and 636. An inclined shaft, still in evidence was sunk to a depth of 29 feet on the gold discovery.

It is also reported that considerable trenching and a little x-ray diamond drilling was done around the year 1932 but no records are available of this work.

In late 1950 Central Manitoba Mines Limited did some diamond drilling and surface sampling on the area containing the best looking vein exposures. Three holes were drilled for a total footage of 1,007 feet. Two of these holes intersected the main vein. Results of this drilling and surface sampling will be shown later in this report. This work was under the direction of Bruce M. Arnott, P. Eng.

In April, 1952 the entire 18 claim group was transferred to McCombe Mining and Exploration Company Limited who still retain the claims and who have done considerable surface exploration work for assessment work purpose consisting of detailed geological mapping, trenching and surface sampling.

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GEOLOGY (Reference may be made to Ontario Provincial Government, Department of Mines Annual Report, 1932, Vol XLI, Part 6 by M.E. Hurst with accompanying map)

The property lies in a widespread greenstone mass striking northeast-southwest. There is quite a wide band of Temiskaming sediments north of the property while to the south in the immediate area of Swimit Lake the greenstone is intruded by granite of Algoman Age.

The greenstones consist of basaltic pillow lava, basalt and andesite flows, agglomerate, amphibolites, chlorite and sericite schists. These greenstones have in turn been intruded by dikes of quartz porphyry, feldspar porphyry and granite porphyries which are very possibly offshoots of the main granite intrusive body south of the property.

STRUCTURAL GEOLOGY

It has been suggested that the main gold showings on the property occur in a vein or series of veins that occur on the south limb of a syncline which dips steeply to the northwest and strikes northeast-southwest.

It is considered very probably that the main gold bearing schisted quartz zone is related closely to the Swimit Lake granite intrusive body. It would appear that the main gold discoveries found to date occur at the same approximate distance north of the greenstone-granite main contact.

There is considerable folding in evidence along the strike on the main gold bearing zone. This is indicated by the quite pronounced changes in strike encountered as one traverses the zone. It was also noted that the richest gold bearing sections of the zone seem to occur on or close to these folds.

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ECONOMIC GEOLOGY

Varying amounts of galena, sphalerite, chalcopryrite and pyrite were seen to occur when the best gold values were obtained.

From all indications the gold does not appear to be associated with the pyrite mineralization but where the other three above mentioned minerals occur, high gold values are usually obtained.

It is reported that microscopic examination of the thin sections of the ore revealed that the gold occurred along the edges of the galena, sphalerite and chalcopryrite grains. No free gold was seen under microscope in the quartz. This would explain why no visible gold has been found in the vein material to date despite the high gold assays.

The quartz veins found on the property are of three types as follows:

1. The most important vein type is a white sugary quartz also carrying some ankerite. This is mineralized with galena, sphalerite, chalcopryrite and pyrite and it also contains many schist remnants. This is the main gold bearing type of vein found on the property.
2. The next vein type in order of importance is a glassy blue to black quartz that carries in a few places small amounts of galena, chalcopryrite, sphalerite and ankerite. This vein type is usually narrow and carries erratic and scattered gold values where the mineralization is best.
3. The third type of vein is a massive white barren looking quartz which is lacking in mineralization. It may be that in sections where more folding occurred in the vein, that mineralization and good gold values will be found.

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Economic Geology (Cont'd)

Other scattered quartz veins are known to occur on the property some of which have been seen by the writer. The majority of these have failed to show any gold values but occasional low gold values have been obtained from grab samples outside the main zone as is shown under "Sampling".

THE MAIN ZONE

The zone consists of an irregular quartz vein or series of veins with much schisted rock material present in parts. The zone width varies from one to fifteen feet. The zone appears to occur along or close to a quartz porphyry greenstone contact.

The zone has been traced intermittently by pits for an overall length of 1,600 feet. The general strike to the zone is about N 30 degrees E and the dip steep to the northwest - possibly averaging about 60 degree.

The main gold showings on the zone occur on patented claim HW 636 on which the old shaft also occurs. The vein apparently extends to the southwest onto claims Pa. 30745 and Pa. 30754.

This zone runs along on or close to the southeast edge of a northeast-southwest trending drift or muskeg-covered draw which is two to three hundred feet wide. It has been thought very possible that this draw may well contain other parallel gold bearing veins or zones although none was encountered in the two diamond drill holes drilled partway across the draw.

The important mineralization consisting of galena, sphalerite and chalcopyrite are readily seen in some of the pits along the surface of the zone. A limited amount of stripping, also rock trenching has been done over the years along the zone and samples of various kinds have

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The Main Zone (Cont'd)

been taken along the zone the results of which will be shown next in this report under "Sampling".

On traversing the zone the changes in the strike are very apparent in a number of places on the surface.

The greatest width to the zone known to date occurs a short distance north-east of the old shaft where pitting has exposed a fifteen foot width. Strangely enough it is at this widest known part of the zone that the strongest mineralization was seen and high gold values were obtained. This is possibly due to the following at this particular part of the zone.

SAMPLING

The most complete sampling job done to date on the main zone was carried out by Bruce Arnott who was in charge of the work for Central Manitoba Mines Limited in the latter part of 1950.

Mr. Arnott took a series of chip samples from the zone at various points and the results of his sampling are shown below.

Subsequently check samples were taken at a few places along the zone by the writer during his two visits to the property in May, 1946 and June 1959 and these are also shown.

In addition Mr. Robert McCombe took a few grab samples of the zone at different places and the results of this sampling are also shown.

Finally at the bottom of the list the assay results of the two diamond drill intersection of the zone are shown.

It is considered that the number of samples giving high assays is indicative of the high grade nature of the zone in parts. Although no visible gold was seen by the writer and only a very few "sights" of gold have been reported from the zone, the occurrence of high gold

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Sampling (Cont'd)

values associated especially with the galena and sphalerite mineralization, reminds the writer of some very interesting but erratic free gold occurrences which he has seen whose possible economic importance cannot be discounted.

Sample No.	Location from Old Shaft	Samples taken by B. Arnott			Samples taken by R. McCombe			Samples taken By G.W. Moore		
		Width	Oz.Au	Val.	Width	Oz.Au	Val.	Width	Oz.Au	Val.
1	645'NE	3.5	Tr	-						
	456'NE				Grab.	.11	\$3.85			
3	335'NE	4.0	Tr	-						
5	314'NE	3.0	0.40	14.00	Grab	1.58	55.30			
6	305'"	5.0	nil	-						
7	270'"	2.0	0.76	26.00						
9	255'"	1.0	0.44	15.40						
10	240'"	1.0	0.00	nil						
11	230'"	1.0	3.46	221.10	Grab	3.78	132.30			
12	225'"	1.0	0.86	30.10						
13	220'"	1.0	3.08	107.80						
14	90'"	1.0	nil	-						
15	30'0-5'					1.16	40.60	5.0	-0.32	\$11.20
	from F.W	5.0	Nil	-		.77	27.95	2.0	0.49	17.15
16	30 5'-11'				Grab	.52	18.20	2.0	0.06	2.10
	from F.W	6.0	3.04	106.40		5.12	179.20	2.0	2.99	104.65
						.48	16.80			
17	24'NE	4.0	0.38	13.30						
18	18' 0-6'							Ozs. Ag. re chip		
	from F.W	6.0	0.30	10.50				samples		
19	18' 6-8'							5.0	-0.40	
	from F.W	2.0	Tr.	-				2.0	-0.79	
20	18' 8-9.5'							2.0	-0.25	
	from F.W	1.5	0.02	0.70				2.0	-2.05	
21	18' 9.5-12'									
	from F.W	2.5	Nil	-						
22	18' 12'-15'									
	from F.W	3.0	0.22	7.70						
23	15' 0'-5'									
	from F.W	5.0	Nil	-						
24	15' 5-9.5'									
	from F.W	4.5	0.03	1.05						
25	10'NE	5.0	0.46	16.10	Grab	4.53	158.55			
26	5'NE	Grab	0.32	10.20						
27	85'SW	5.0	0.06	2.10						
28	95'SW	2.5	Tr.	-						
29	105'SW	4.0	0.12	4.10	Grab	2.64	92.40			
31	115'SW	3.5	Nil	-						
32	125'SW	4.0	0.03	1.05						
33	145'SW				Grab	0.04	1.40			
	0-5'					0.11	3.85			
	from F.W	5	0.10	3.50						
35	155'SW	Grab	0.20	7.00						
36	165'SW	3.0	Tr.	-						

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Sampling (Cont'd)

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	456' N.E.				Grab	.11	\$ 3.85			
3	335' N.E.	4.0	Tr	-						
5	314' N.E.	3.0	0.40	14.00	Grab	1.58	55.30			
6	305' "	5.0	nil	-						
7	270' "	2.0	0.76	26.60						
9	255' "	1.0	0.44	15.40						
10	240' "	1.0	0.00	nil						
11	230' "	1.0	3.46	221.10	Grab	3.78	132.30			
12	225' "	1.0	0.86	30.10						
13	220' "	1.0	3.08	107.80						
14	90' "	1.0	Nil	-						
15	30 0-5'					1.16	40.60	Chips		
	from F.W	5.0	Nil	-		.77	27.95	5.0 -0.32	\$ 11.20	
16	30 5'-11'				Grabs	.52	18.20	2.0 0.49	17.15	
	from F.W	6.0	3.04	106.40		5.12	179.20	2.0 0.06	2.20	
						.48	16.80	2.0 2.99	104.65	
17	24' N.E.	4.0	0.38	13.30						
18	18' 0-6'							Oss. Ag. re chip		
	from F.W.	6.0	0.30	10.50				samples		
19	18' 6-8'							5.0 - 0.40		
	from F. W.	2.0	Tr.	-				2.0 - 0.79		
20	18' 8-9.5'							2.0 - 0.25		
	from F.W.	1.5	0.02	0.70				2.0 - 2.05		
21	18' 9.5-12'									
	from F.W.	2.5	Nil	-						
22	18' 12'-15'									
	from F.W	3.0	0.22	7.70						
23	15' 0'-5'									
	from F.W	5.0	Nil	-						
24	15' 5-9.5'									
	from F.W.	4.5	0.03	1.05						
25	10' N.E.	5.0	0.46	16.10	Grab	4.53	\$158.55			
26	5' N.E.	Grab	0.32	10.20						
27	85' S.W.	5.0	0.06	2.10						
28	95' S.W.	2.5	Tr.	-						
29	105' S.W.	4.0	0.12	4.10	Grab	2.64	92.40			
31	115' S. W.	3.5	Nil	-						
32	125' S.W.	4.0	0.03	1.05						
33	145' S.W.				Grabs	0.04	1.40			
	0-5'					0.11	3.85			
	from F.W.	5	0.10	3.50						
35	155' S.W.	Grab	0.20	7.00						
36	165' S.W.	3.0	Tr.	-						

Assay Results (Cont'd)

Sample No.	Location from Old shaft	Samples taken by B. Arnott			Samples taken by R. McCombe			Samples taken by G.W. Moore		
		Width	Oz.	Au Val	Width	Oz.	Au Val	Width	Oz.	Au Val
37	500'SW	Grab	0.08	\$2.80	Grab	0.02	0.70			
38	520'SW	Grab	Nil	-						
39	1030'SW	Grab	3.86	135.10						
40	1030'SW	Grab	Nil	-						
41	890'SW	3.5	Nil	-						
43	900'SW	Grab	Tr	-	Grab	0.13	\$4.55	Grab	0.01	0.35
								Ozs. Ag.	-	
44	940'SW	Grab	.12	4.20						

Notes:

The sampling done by engineer Arnott is the most complete and may be considered to be fairly representative for a vein carrying erratic but frequently high gold values.

The grab sampling done by R. McCombe and the chip and grab sampling done by the writer serve to show even more emphatically the high gold values which are to be found in places along the vein.

Of interest are the silver values obtained by the writer and noted in the above sample lists. Should strong concentration of galena and sphalerite be encountered in future work, it is suggested that silver assays be obtained as well as gold.

DIAMOND DRILL ASSAY RESULTS

(Diamond Drilling done by Central Manitoba Mines Ltd., Bruce Arnott, Engineer)

HOLE NO. 1

<u>Footage</u>	<u>Vert. Depth</u>	<u>Width</u>	<u>Assay Ozs. Au</u>	<u>\$ Value</u>
200.1-201.7		1.6	0.34	11.95
201.7-204.8	(Approx.	3.1	Chlorite schist	(not sampled?)
204.8-205.2	138')	0.4	1.12	39.20
205.2-206.2		1.0	Tr.	-

HOLE NO. 3

187.8-191.8		4.0	Tr.	-
191.8-192.8		1.0	0.44	15.40
192.8-194.5	(Approx.	1.7	Tr.	-
206.6-209.2	130')	2.6	0.04	1.40

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Assay Results (Cont'd)

Sample No.	Location from Old shaft	Samples taken by B. Arnott			Samples taken by R. McCombe			Samples taken by G. W. Moore		
		Width	Os.	Au. Value	Width	Os.	Au. Value	Width	Os.	Au. Value
37	500' S.W.	Grab	0.08	\$2.80	Grab	0.02	0.70			
38	520' S.W.	Grab	Nil	-						
39	1030' S.W.	Grab	3.86	\$135.10						
40	1030' S. W.	Grab	Nil	-						
41	890' S.W.	3.5	Nil	-						
43	900' S.W.	Grab	Tr	-	Grab	0.13	\$4.55	Grabs	0.01	0.35
								Oss. Ag.	-	
44	940' S.W.	Grab	.12	4.20						

Notes:

The sampling done by engineer Arnott is the most complete and may be considered to be fairly representative for a vein carrying erratic but frequently high gold values.

The grab sampling done by R. McCombe and the chip and grab sampling done by the writer serve to show even more emphatically the high gold values which are to be found in places along the vein.

Of interest are the silver values obtained by the writer and noted in the above sample lists. Should strong concentration of galena and sphalerite be encountered in future work, it is suggested that silver assays be obtained as well as gold.

DIAMOND DRILL ASSAY RESULTS

(Diamond Drilling done by Central Manitoba Mines Ltd., Bruce Arnott, Engineer)

HOLE NO. 1

Footage	Vert. Depth	Width	Assay Os. Au	\$ Value
200.1-201.7		1.6	0.34	11.95
201.7-204.8	(Approx. 138')	3.1	Chlorite schist (not sampled?)	
204.8-205.2		0.4	1.12	39.20
205.2-206.2		1.0	Tr	-

HOLE NO. 2

187.8-191.8		4.0	Tr.	-
191.8-192.8		1.0	0.44	15.40
192.8-194.5	(Approx. 130')	1.7	Tr.	-
206.6-209.2		2.6	0.04	1.40

Assay Results (Cont'd)

NOTES:

Although the values in the two holes occurred over comparatively narrow widths the mineralized quartz and schist zones encountered were six feet wide in Hole No. 1 and eight feet wide in Hole No. 2. The zone structure is therefore apparently still strong at this depth.

As mentioned before, Hole No. 2 unfortunately drilled on the footwall side of the vein and did not go deep enough to out the zone.

Respectfully submitted,

Gordon W. Moore, B.Sc., P.Eng.,
Consulting Mining Engineer.

Toronto, Ontario
3rd August, 1959

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ASSAY Results (Cont'd)

NOTES:

Although the values in the two holes occurred over comparatively narrow widths the mineralized quartz and schist zones encountered were six feet wide in Hole No. 1 and eight feet wide in Hole No. 2. The zone structure is therefore apparently still strong at this depth.

As mentioned before, Hole No. 2 unfortunately drilled on the footwall side of the vein and did not go deep enough to cut the zone.

Respectfully submitted,

Gordon W. Moore

Gordon W. Moore, B. Sc., P. Eng.,
Consulting Mining Engineer.

Toronto, Ontario
3rd August, 1959.

C E R T I F I C A T E

I, GORDON W. MOORE, do hereby certify:

1. That I am a Mining Engineer practising as such and that my office is in Toronto, Ontario where I also reside.
2. That I am a graduate of Nova Scotia Technical College Halifax, N.S. Bachelor of Applied Science in Mining Engineering in 1927.
3. That I am a member of the Association of Professional Engineers of Ontario and Saskatchewan.
4. That I have practised my profession continuously since graduation with the exception of the years 1941 to 1945 when I served as an Armament Officer in the Royal Canadian Air Force.
5. That I have written a report on the McCombe Mining Company's Swimit Lake Gold Prospect in the Sioux Lookout Area, Northwestern Ontario.
6. That this report is based on two visits by the writer to the property in May 1946 and in June 1959 each trip occupying the major portion of one day.
7. That this report is also based on a study of various geological reports and maps including the Ontario Government Department of Mines Annual Report, 1932 Vol. XLI, Part 6 by M.E. Hurst and data concerning the work done by Central Manitoba Mines Limited on the property as prepared by that Company's engineer, Bruce Arnott in 1952.
8. That I have no interest, either directly or indirectly in the properties or securities of the McCombe Mining Company nor do I expect to receive any interest either directly or indirectly from them.

Dated at Toronto, Ontario
this 3rd day of August, 1959.

GORDON W. MOORE, B.Sc., P.Eng.,
Consulting Mining Engineer.

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POOR QUALITY ORIGINAL
TO FOLLOW**

CERTIFICATE

I, GORDON W. MOORE, do hereby certify:

1. That I am a Mining Engineer practicing as such and that my office is in Toronto, Ontario where I also reside.
2. That I am a graduate of Nova Scotia Technical College Halifax, N. S. Bachelor of Applied Science in Mining Engineering in 1927.
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6. That this report is based on two visits by the writer to the property in May 1946 and in June 1959 each trip occupying the major portion of one day.
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8. That I have no interest, either directly or indirectly in the properties or securities of the McCombe Mining Company nor do I expect to receive any interest either directly or indirectly from them.

DATED at Toronto, Ontario
this 3rd day of August, 1959.

Gordon W Moore

GORDON W. MOORE, B. Sc., P. Eng.,
Consulting Mining Engineer.