



52N04NE8123 63.4068 BATEMAN

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GROLOGICAL REPORT

on the

MAC BUCK RED LAKE GOLD MINES, LIMITED

by

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Ph.D.

December, 1946.



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GEOLOGICAL REPORT

on the

MAC BUCK RED LAKE GOLD MINES LTD

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SUMMARY AND CONCLUSIONS

- (1) Trenching and drilling on the MacBuck was done from December 1944 to July 1945, and the surveying, geological mapping and assembling of all data and information about the property was started in September 1946 and completed by December 1946.
- (2) Mapping of the land claims, which comprise 25% of the property, showed a similar geological sequence and rock types to other properties to the south in the East Bay section of Bateman Township.
- (3) The structural conditions found in the central and southern sections of East Bay continue through the MacBuck property.
- (4) Surface mapping indicates that extension of the McFinley mineralized horizon continues through the MacBuck.
- (5) Trenching and drilling has revealed the presence of gold throughout the property.
- (6) There has been insufficient work done to definitely determine whether these scattered gold values have economic possibilities or not.
- (7) The most favourable section for further exploration lies under water on strike of the McFinley structure.
- (8) Claims KRL 21315 and 20313 are underlain by massive andesite and have little economic potentiality.
- (9) A program of 6290 feet of ice drilling is tentatively recommended to initiate the exploration of the property.

GEOLOGICAL REPORT

on the

MAC BUCK RED LAKE GOLD MINES
LIMITED

Introduction

The MacBuck Red Lake Gold Mines Ltd property consists of 22 mining claims located in the northernmost section of East Bay, in Bateman Township in the Red Lake Mining Division of the Patricia Portion, District of Kenora. The claims are numbered as follows: KRL 21002, 21003, 21004, 21005, 21006, 21007, 21008, 21009, 21010, 20311, 20312, 20314, 20315, 20316, 20351, 20352, 20353, 20354, 21208, 20350 and 21315.

Table 1.

MacBuck Claims

<u>Claim</u>	<u>Status</u>	<u>Remarks</u>
21002	Work due October 20/48	Needs survey
21003 to 10	Patent before Oct 20/50	" "
21208	" " Nov 2/50	" "
20311	" " July 24/50	
20312 to 16	Work due July 24/48	20315-16 need survey
20350 to 52	Patent before Aug 8/50	Need survey
20353	Work due August 8/48	Needs survey
20354	Patent before Aug 8/50	" "
21315	Work due November 13/48	

Approximately 25% of the property consists of land claims and 75% is under water.

The following report is based on trenching and drilling done under the supervision of Mr. W.P. Corking, geologist in charge of the property from December 1944 to July 1945, and the geological mapping of the property on a scale of 200 feet to the inch done by the writer in September and October 1946. In addition, a more detailed plan of the trenching was prepared, and sections made of all the drilling done in the past on the property.

The writer wishes to express his appreciation for the cooperation and help furnished by Mr. H.R. Buckles and for the information and kind assistance furnished by Mr. J.A. Cluff in surveying some of the topographical and geological features on the property.

PLANS

- (1) Geological Plan of North Half of MacBuck - Scale 1" - 200'
- (2) " " " South Half " " - Scale 1" - 200'
- (3) " " " Trenching Claim KRL 20311 - Scale 1" - 20'
- (4) Sections of Drill Holes K-1 to K-14 - Scale 1" - 20'.

REPORTS

- (1) H.C. Horwood - "Geology and Mineral Deposits of the Red Lake Area" - 'Anderson Group' pp. 75-76, Ontario Dept. of Mines, Vol. 49, Part 2, 1940.
- (2) W.R. Newman - Report for Ontario Securities Commissioner on MacBuck Red Lake Gold Mines Ltd., dated February 18th, 1946.

LOCATION & ACCESSIBILITY

The property is about $7\frac{1}{2}$ miles to the northeast in a direct line from the village of McKenzie Island and about 9 miles by water route from the village. It could be serviced easily by boats and scows during the summer. The property is about 6 miles away from the road and power line McMarmac.

TOPOGRAPHY

About 75% of the MacBuck property consists of water claims lying in East Bay. Three triangular sections of claims KRL 21010, 21208 and 21002 jut out on the low-lying west shore. No outcrop is found on these land fractions. They vary from sandy flats to swampy terrain. On claim KRL 21003, an island is located, known as Cross Island, named after its configuration. The island has some rock outcrop on its edges and its central hump is covered by a mantle of sand up to 8 feet in thickness. A small rock reef is found 1100' to the northeast of Cross Island. On KRL 20350, a small island is located which has some rock boulders exposed, but no bedrock.

The greatest area of land claims is found in the northeast section of the property, where parts or all of 7 claims are on land, on the east side of East Bay. These claims are characterized by rock outcrops along the shore, typical of shore-line on the east shore of East Bay. Claim KRL 20316 has, however, a very swampy shore-line. Progressing eastward and inland, after a climb of 10 to 20 feet, relatively flat, well-wooded ground is traversed, containing good stands of timber, mainly spruce, some pine and poplar. Very few outcrops are found in this section, which comprises the whole central portion of the land claims.

Claims KRL 21315, 20313 and part of 20315 are distinguished topographically by large northeasterly trending, massive rock ridges. Some of these rock outcrops form steep cliffs up to 15' in height. A few narrow swamps are locally found between these ridges.

KRL 20316 has a large swamp covering most of the land extent of this claim. A long, gradual slope extends eastward from the east boundary of this swamp. A few small streams drain the claims.

The terrain of the property is typical of the Precambrian shield.

The difference in relief is not more than 25'. Swampy ground alternates with rock outcrops, and where the overburden is heavy, the ground is heavily wooded.

GENERAL GEOLOGY

The main rock types on the MacBuck are volcanics and lavas of Keewatin age with some interbedded sedimentary rocks. Intrusive and basic dikes are found throughout the property. A tongue of biotite granite from the Wilson Boss was intersected in drill hole K-9 drilled eastward from Cross Island.

Fine-grained massive green andesites are found throughout the eastern claims KRL 21315, 20313 and 20315. They form distinct greenstone ridges, trending in a northeasterly direction. Some flow structure produced a pseudo-sedimentary or bedded effect locally. Along the east boundary of KRL 21315 and 20313, brecciated andesite or basic agglomerate outcrops are found. Some andesite is also found on Cross Island, which has some indications of pillow lava in places. Massive andesites occur also on the west side of East Bay, off the property. Massive andesites grade into a coarse-grained dioritic rock on the border of KRL 20313 and 21315. These apparently are coarser phases of volcanic flow, either due to slower crystallization of more deeply buried lavas or to later recrystallization. To the southeast of this body a massive ridge of amphibolite, probably a related flow with a higher ferromagnesian content, is found.

Carbonatized andesite and andesite schists are not as prevalent as on the properties to the south, such as the McFinley. Some outcrops occur on the east shore of Cross Island. On claim KRL 20352 along the shore-line, both on and off the property, outcrops grading from carbonatized andesite to andesite and chloritic tuffs are seen. Some acidic dikes intruded these rocks.

Where andesite and altered lavas have been highly sheared, chloritic schist has been formed.

Interbedded with the basic lava are chloritic tuffs and lenticular bands of iron formation. The iron formation is undoubtedly a continuation of the interbedded siliceous sediments and iron formation found on the McFinley. On surface, the iron formation appears more or less massive iron-stained and poorly bedded. Some quartz and sulphide mineralization are associated with the iron formation.

Along the shore-line on claims KRL 20311, 20312 and 20314, a poorly-banded and sorted green chloritic rock is found. This rock is often slaty in appearance and where highly sheared, formed chloritic schist. From the poorly-bedded character of the rock, and the irregular fragments throughout, it is termed a basic tuff. Some iron formation is found interbedded with it, another indication of its sedimentary origin.

Throughout the land claims fairly numerous aplite, quartz porphyry, & feldspar porphyry dikes intruded the lavas. In hand specimen they are light-gray in appearance, either fine-grained or with quartz and feldspar phenocrysts. On the south tip of Cross Island, a narrow tongue of fractured quartz porphyry, containing barren white quartz stringers, is found. A quartz porphyry reef is located about 1100 feet north of Cross Island.

In drilling D.D.H. K-9 from the northeast end of Cross Island, biotite granite was intersected in the core. This granite is related to the hornblende-biotite-granite of the Wilson Boss found on the Beatrice property.

On the land claims a number of dikes are seen near the shore-line. Most of the dikes are aplitic, although a few are feldspar and quartz porphyries. A small rock ridge was formed by an aplite dike on claim KRL 20314. Where sheared, these acidic dikes formed sericitic schist.

A body of diorite is located on shore of claim KRL 20312. There had

been some fracturing with a later intrusion of white quartz in the diorite. A small lamprophyre dike also had intruded the diorite.

STRUCTURAL FEATURES

The most important and significant structural features on the Mac-Buck property are the continued northeasterly trend and strike of all rock formation and their steep northeasterly dip, typical of the East Bay formations.

East Bay itself is a pronounced structural feature. On the McFinley and nearby properties, drilling has indicated that a large part of East Bay is underlain by talc schist. This talc schist was the result of hydrothermal alteration, which also had produced a considerable degree of carbonatization in nearby andesites and schists. It is presumed that the hydrothermal solutions travelled along a regional fault striking down East Bay. Interbedded with these andesites are sedimentary beds usually siliceous sediments and iron formation. These beds being more competent than the surrounding incompetent andesites and schists, fractured rather than sheared. Quartz and sulphide solutions, containing gold were deposited in the fractures in the sediments and sometimes as quartz veins and replacements in the country rock. All this alteration, fracturing and shearing were undoubtedly related to faulting and movement in East Bay.

Unfortunately, there is little direct evidence in the field, of the faulting beyond the facts presented above. Formation on the eastern side of the bay with which the writer is acquainted, differ somewhat from those on the western side. Firstly, they usually are not as highly carbonatized, and secondly, do not have as much sedimentary material interbedded with the volcanics. Thin rhyolite bands are occasionally interbedded with the andesite on the eastern shore of the bay.

The above points are stressed, as their regional implication must be visualized in order to realize the economic possibilities of the MacBuck property. In other words, do the structural conditions that have produced favourable conditions for gold deposition on the McFinley exist on the MacBuck?

Two difficulties arise before a quick answer to this question can be given. Firstly, the extent of the claims under water on the MacBuck, and secondly, the general strike of the McFinley structure which, on projection, crosses the water claims on the upper reaches of East Bay, and makes exploration and interpretation difficult.

However, from the study of geology on Cross Island and along the shore-line of the land claims of the MacBuck, and from geology disclosed by the drill holes, it appears that structural and geological conditions are the same as to the southwest on the McFinley. Some carbonatization has been observed in the andesites on Cross Island. Some fracturing of the iron formation with quartz and later sulphide injection along with a little gold mineralization has been observed. Some talc schist has been logged in D.D.H. K-8. There is undoubtedly a difference in degree in the two properties but these observations, plus the continuation of the north-easterly strike and northwesterly dip indicate the continuity of the East Bay structure through the MacBuck property.

Less than 800' away from the south-east tip of Cross Island, on a peninsula on the Beatrice property, a body of hornblende-biotite-granite, known as the Wilson Boss, is located. The intrusion of this body set up shearing strain and tension stresses in the nearby rock. Some cross and rectangular fracturing were observed in the quartz porphyry at the south end of Cross Island but no tension fracture patterns were detected in the iron formation.

Minor structural features such as flow structure in the massive andesites, the strike of bedding in the poorly-sorted chloritic tuffs, all follow the northeasterly strike of the regional structure.

The coarse andesite and amphibolite outcrops that are found on KRL 21515 and 20313 may be indications of the central or lower sections of lava flows. The agglomerate or brecciated outcrops on these claims may by the same token be the tops of the lava beds. These features are not too well-defined but are mentioned for purposes of record and observation.

In short, all the above points indicate that the general regional structure of East Bay continues through the MacBook property, and from the structural viewpoint offers favourable possibilities for further exploration.

ECONOMIC GEOLOGY

The economic possibilities for ore deposits in the MacBook are largely dependent on the continuation of the McFinley structure on strike across the water claims, that constitute the major part of the property, in the upper reaches of East Bay.

Geological and structural conditions, in addition to the presence of gold indicates that the structure continues. Some trenching and drilling has been done in the past, but not sufficient work has been completed to determine the economic possibilities of the property and whether there is a gold concentration sufficient for economic exploitation.

The trenching and drilling can be divided into the work done on Cross Island on the northeastern land claims: In all 3756.6' of drilling was done, 1547.7' on Cross Island and 2208.9' on the land claims.

CROSS ISLAND

Trenching

Trenching was mainly confined to the northern and southern ends of

the island. The centre of the island is covered by sand overburden too thick for trenching to bedrock.

Some bands of iron formation were exposed in the trenching as well as a few quartz stringers and some narrow shear zones. Channel and chip samples from the iron formation gave negative results. Nothing of interest was obtained from the quartz stringers or chloritic schist.

Drilling

Two holes were drilled from the north end of the island, one to the south east and the other to the north west, to explore the underwater extension of the McFinley strike. The holes were drilled with a standard drill.

K-9 drilled to the south east intersected a tongue of biotite granite from the Wilson Boss. Above this intersection an assay of \$2.10 over 0.6' in heavy sulphides was recorded. Near the bottom of the hole, and also in heavy sulphides, a sample assayed \$5.25 over 1.6' or \$3.68 over 2.7'.

K-10 drilled to the northeast had one assay of \$5.95 over 1.9' in silicified tuff, containing sulphides. Several other sections assayed \$1.40 to \$1.75 over narrow widths.

LAND CLAIMS

Trenching

From the south end of KRL 20311 and extending north-east for 560', trenching has exposed poorly-bedded chloritic tuff, locally sheared to chloritic schist. Some lenticular bands of iron formation were found to be interbedded with tuff. A few narrow acid and basic dikes had intruded the tuff. In the long trench, in about the centre of the trenching, a band of iron formation assayed \$3.50 over 3 feet. No other noteworthy assays have been recorded from the surface trenching.

Gold pannings have been reported along the shore.

Drilling

Of the 2208.9' of drilling on the land claims, all but 626' in D.D.H. K-8 drilled by a standard machine, was done by an X-ray drill.

A narrow section containing gold values was indicated over a length on strike of about 150' from D.D.Hs K-1, K-3, K-7 and K-8. The values and widths proved to be too narrow to be commercial, but some V.G. was seen in D.D.H. K-1 where an assay of \$1050 over 0.1' was obtained.

D.D.H. K-5 and K-6 drilled under the trench that had a surface assay of \$3.50 over 3' in iron formation, gave negative results.

D.D.H. K-11 to K-14 had no assays of value.

Nothing of economic significance was seen in mapping the remainder of the land claims.

RECOMMENDATIONS

(1) Since the same structural conditions exist on the MacBuck property as on McFinley, and as the projected strike of the McFinley mineralized horizon passes through the water claims of the MacBuck, and since gold values have been found in drill holes and trenching on the property, further work is required to satisfactorily explore the potentialities of the property.

(2) About 75% of the claims are under water, the favourable structure striking in a northeasterly direction across these water claims. Exploratory drilling will therefore have to be done from the ice.

(3) Although conditions would be ideal for a geophysical survey from the ice, the somewhat negative results obtained from the McFinley geophysical would discount this method of exploration. However, the writer feels that the known geological conditions should be discussed with a reliable geophysicist, and if it is decided that a geophysical survey could pick up lenticular mineralized sedimentary bodies in altered andesites and schists,

a geophysical would be very helpful in locating favourable sections along the strike of the structure.

(4) Two tentative cross sections have been suggested for drilling as follows:

(a) Drill Section "A"

Location - 3250' NE of Cross Island.

Strike of Section - 130° Ast.

Dip - 45°

Length of cross section - 2000'

Drilling footage - 2860'.

(b) Drill Section "B"

Location - 3500' NE of Drill Section "A"

Strike of Section - 130°

Dip 45°

Length of cross section - 2500'

Drilling footage - 3430'

(5) These cross sections are only recommended to initiate a drilling program, but should be modified immediately information is obtained from logging the core. Once the McFinley horizon is definitely delineated, and if gold values are encountered, drilling should be done to trace the mineralized zone along its strike.

(6) Drilling across the strike of the mineralized zone should be continued as long as encouraging results are obtained. The MacBuck water claims extend for approximately 18,850' from the southern to northern boundaries, therefore any other drilling but strike drilling would entail a tremendous footage. At the same time in scattered drilling over such a length of strike, it would be quite easy to miss a valuable ore shoot,

(7) Claims KRL 21315 and 20315 are composed mainly of massive andesite and have little in the way of economic possibilities and can be dropped when work is due in the latter half of 1948.

(8) Geological and structural conditions are favourable for gold occurrences on the MacBuck. Some gold values have been found. These facts, taken in consideration with results obtained on the McFinley and Inore to the southwest, would justify that further exploratory work be done on the MacBuck. This work would involve drilling from the ice, and possibly a preliminary geophysical survey.

(9) Since the MacBuck claims are in good standing until 1948, it might be of advantage to await underground developments at the McFinley, before proceeding with further exploratory work on the MacBuck.

W.R. Newman
Dec. 18/1946

December 1944

DDH No. K-1

- DIAMOND DRILL LOG -
RODSTROM-KUNTZ GROUP -

Bearings:

Location

Drilled by Northern DD Co.

Logged by J.A. Cluff.

Re-Logged by W.P. Corking

Dip : - 50°

No.	Description	Footage	Assay Value		
			Length	Oz/Ton	\$/Ton
2311	Green schist. Some carbonate stringers. Fairly well mineralized - pyrite; a little chalcopryite	11.6 - 12.9	1.5	Nil	Nil
2312	Amygdaloidal andesite. Very well mineralized - heavy pyrite, some pyrrhotite	12.9 - 14.0	1.1	Nil	Nil
2313	2" quartz in andesite. Very little mineralization	16.5 - 16.7	0.4	Tr	Tr
2314	Andesite with 20% cherty quartz. FWM pyrite	31.4 - 32.0	0.6	0.02	0.70
2315	Siliceous banded green schist	32.0 - 33.4	1.4	Tr	Tr
2316	Siliceous sediment (iron formation); some pyrite, sphalerite, chalcopryite, fine arwenopyrite	33.4 - 34.5	1.1	0.02	0.70
2317	Siliceous sediment; pyrite, pyrrhotite	34.5 - 35.5	1.0	0.02	0.70
2978	Green schist - minor pyrite	40.6 - 41.8	1.2	0.01	0.35
	Finely bedded sediment with a seam of visible gold	41.8 - 41.9	0.1	30.00	\$1050.00
2979	Finely bedded sediment with seams pyrite, chalc	41.9 - 43.4	1.5	0.01	0.35
2318	Andesite with narrow carb strcs; some pyrite	43.4 - 44.7	1.3	Tr	Tr
2980	Andesite with minor pyrite seams	44.7 - 48.0	3.3	0.02	0.70
2319	Andesite with carbonatization; a little pyrite	52.5 - 53.4	0.9	Nil	Nil
2320	FW carbonatized andesite with coarse pyrite	58.8 - 60.6	1.8	Nil	Nil
2321	Andesite, FW carb'd; fine pyrite	62.6 - 64.1	1.5	Nil	Nil
2322	Andesite with biotite bands; some narrow quartz; In part altered to brown andesite schist	71.0 - 73.0	2.0	Nil	Nil
2323	Porphyry (?) with a little pyrite	74.5 - 78.0	3.5	Nil	Nil
2324	50% quartz stringers in porphyry (?) VLM	80.7 - 82.0	1.3	Nil	Nil
2325	Bi-chl schist; VWM pyrite	97.1 - 97.5	0.4	Nil	Nil
2326	Andesite with numerous carb veinlets. FWM $\frac{1}{2}$	106.4 - 107.8	1.4	Nil	Nil
2327	Siliceous andesite with pyrite, pyrrhotite	108.6 - 109.5	0.9	Tr	Tr
2328	60% sugary quartz in andesite	138.5 - 138.9	0.4	0.02	0.70
2329	80% quartz, 20% carb. VLM. Some brown stain	149.7 - 151.0	1.3	Tr	Tr

2330	Siliceous andesite plus some porphyry (?) & 1. pyr	152.8 - 155.0	2.2	Nil	Nil
2331	Porphyry (,) with a little pyrite	162.0 - 165.6	2.6	Nil	Nil
2332	Porphyry (?) with some pyrite; brown banding	170.6 - 173.0	2.4	Nil	Nil

SLUDGE SAMPLES

0.0	-	10	0.02	0.70	90	-	100	Tr	Tr
10	-	20	Tr	Tr	100	-	110	Nil	Nil
20	-	30	Nil	Nil	110	-	120	Nil	Nil
30	-	40	Tr	Tr	110	-	130	Nil	Nil
40	-	50	0.84	29.40	130	-	140	Nil	Nil
50	-	60	Tr	Tr	140	-	150	Nil	Nil
60	-	70	0.02	0.70	150	-	160	0.02	0.70
70	-	80	Tr	Tr	160	-	170	Tr	Tr
80	-	90	0.02	0.70	170	-	180	Nil	Nil

GEOLOGY

0.0	-	3.0	Casing
3.0	--	33.4	Normal fine to medium grained chloritic andesite schist; in part strongly schisted with some brown alteration locally.
33.4	--	35.5	Cherty sediments with pyrite and some fine sphalerite.
35.5	-	41.8	Massive andesite.
41.8	-	43.4	Finely bedded sediment with seams of pyrite, a little chalcopyrite and a seam of visible gold.
43.4	-	74.5	Andesite as above. Locally carbonatized.
74.5	-	88.4	Very siliceous mauve coloured rock with a few bluish quartz eyes. Banded appearance suggests a quartzitic sediment; possibly quartz porphyry.
88.4	-	93.3	Brown and green recrystallized andesite schist. Alternation of chlorite and biotite imparts a pseudo-sedimentary character.
93.3	-	97.1	Younger intrusive diorite; Uniform medium grain; Fairly fresh.
97.1	-	153.0	Andesite schist as above. Well banded.
153.0	-	176.0	Siliceous mauve rock as described above. Very well banded and no quartz eyes. Probably quartzitic sediment.

176.0

END OF HOLE

December, 1944.

DIAMOND DRILL LOG
RODSTROM GROUP

DDH No. K-2

Dip -45°

Location:

Drilled by: Northern DD Co.

Logged by: J.A. Cluff

Relogged by: W.P. Gorking

Bearing

No.	Description	Footage	Length	Grains/Ton	Value/Ton
2333	Chlorite andesite. FWM fine pyrite	12.0 - 13.1	1.1	Tr	Tr
2334	Andesite, FWM pyrite	13.1 - 16.0	1.2	Tr	Tr
2335	Fine-grained quartz-diorite. Much fine pyrite	16.3 - 22.4	2.3	Nil	Nil
2336	Siliceous andesite with fine pyrite	20.1 - 22.4	2.3	Nil	Nil
2337	Coarse older diorite. FWM pyrite	23.9 - 25.0	1.1	Nil	Nil
2338	Coarse older diorite. Bi-chl alteration	28.0 - 30.0	2.0	Nil	Nil
2339	Coarse older diorite. FWM pyrite	32.1 - 33.6	1.5	Nil	Nil
2340	Fine-grained quartz diorite. FWM pyrite, pyrrhotite	36.3 - 38.3	2.0	Nil	Nil
2341	Chloritic quartz-diorite with fine pyrite, pyrrhotite	48.0 - 48.9	0.9	Nil	Nil
2342	Fine-grained andesite with pyrite, pyrrhotite	51.9 - 52.7	0.8	Nil	Nil
2343	60% quartz stringers in amphibolite; coarse pyrite	53.7 - 54.2	0.5	Nil	Nil
2344	Diorite; FWM fine pyrite	57.7 - 60.0	2.3	Nil	Nil
2345	Bi-chlorite schist; 40% carbonate stringers	118.5 - 120.0	1.5	Nil	Nil
2346	Banded bi-chl schist; some pyrite and sphalerite	121.4 - 123.3	1.9	Nil	Nil
2347	80% carbonate in andesite	131.1 - 131.6	0.5	Nil	Nil
2348	Carbonatized diorite with some fine pyrite	143.1 - 144.1	1.0	Nil	Nil
2349	Carbonatized diorite. VLM	154.7 - 156.0	1.3	Nil	Nil
2350	Carbonatized diorite. VLM	156.9 - 160.0	3.1	Nil	Nil

SLUDGE SAMPLES

0	-	10	Nil	Nil	100	-	110	0.02	0.70
10	-	20	Nil	Nil	110	-	120	Tr	Tr
20	-	30	Nil	Nil	120	-	130	Nil	Nil
30	-	40	Nil	Nil	130	-	140	Nil	Nil
40	-	50	Nil	Nil	140	-	150	Nil	Nil
50	-	60	Nil	Nil	150	-	160	Nil	Nil
60	-	70	Nil	Nil	160	-	170	Nil	Nil
70	-	80	Tr	Tr					
80	-	90	Nil	Nil					
90	-	100	Tr	Tr					

GEOLOGY

0.0	-	5.0	Casing
5.0	-	23.9	Normal green andesite schist.
		16.5 - 19.6	- Fine grained younger quartz-diorite.
23.9	-	35.0	Coarse older diorite or amphibolite; partly soft.
35.0	-	38.8	Fine-grained fresh younger quartz diorite.
38.8	-	46.6	Amphibolite.
46.6	-	48.0	Fine grained fresh younger diorite or siliceous andesite.
48.0	-	52.0	Fine-grained chloritic andesite schist.
52.0	-	62.2	Amphibolite.
62.2	-	85.5	Normal chloritic andesite.
85.5	-	95.0	Fresh younger diorite with some included greenstone.
95.5	-	104.2	Normal andesite schist.
104.2	-	109.0	Fresh diorite.
109.0	-	113.5	Andesite schist.
113.5	-	115.5	Fresh diorite.
115.5	-	123.5	Andesite schist. Very well banded - pseudo-sedimentary texture.
123.5	-	126.0	Fresh diorite.
126.0	-	132.0	Medium-grained-fresh-diorite-and-quartz-diorite.
			(Andesite schist.
132.0	-	173.0	Medium-grained fresh diorite and quartz diorite.
		173.0	

END OF HOLE

December, 1944

DIAMOND DRILL LOG
RODSTROM GROUP

DDH No. K-3

Bearing:

Location:

Drilled by Northern DD Co.

Logged by J.A. Cluff

Re-logged by W.P. Corking

Dip : -60°

No.	Description	Footage	Length	Assay Value	
				Oz/Ton	\$/Ton
2351	60% barren quartz in greenstone	3.0 - 3.7	0.7	N11	N11
2352	90% chloritic quartz - VLM	2.2 - 2.8	0.6	N11	N11
2272	Pyrite concentration in siliceous andesite	21.7 - 22.0	0.3	0.47	16.45?
2353	50% quartz-carb in andesite FWM pyrite & chalcopyr.	45.1 - 46.0	0.9	N11	N11
2354	Chloritic carbonatized andesite schist - some pyrite	46.0 - 47.7	1.7	N11	N11
2355	Banded andesite schist. Possibly sediment - pyr;pyrrh	47.7 - 49.6	1.9	N11	N11
2356	Banded andesite schist or sediment; pyr; pyrrh; chalco	49.6- 51.3	1.7	N11	N11
2357	Do. Some qtz-carb. Iron Formation - fine pyrite	53.0 - 56.0	3.0	N11	N11
2358	10% quartz strs in andesite; some pyrite	56.6 - 58.2	1.7	N11	N11
2359	Highly carbonatized andesite. Veinlets pyrite	75.6 - 78.0	2.4	N11	N11
2360	Highly carbonatized andesite some pyrite	78.0 - 79.4	1.4	N11	N11
2361	Quartzite (X (?)) - with a little coarse pyrite	79.4 - 82.0	2.6	N11	N11
2362	60% quartz-carbonate in andesite - VLM	82.0 - 84.1	2.1	N11	N11
2363	Quartz with a little fine pyrite	85.0 - 85.3	0.3	N11	N11
2364	Banded andesite. FWM pyrite; possibly sediment	91.2 - 93.9	2.7	N11	N11
2365	80% chloritic quartz in andesite; some pyrite	99.0 - 100.0	1.0	Tr	Tr
2366	Andesite with chloritic quartz veinlets. Some pyrite in seams and a little carbonate	102.0 - 103.6	1.6	N11	N11
2367	Andesite with bi. banding FWM pyrite; some carb.	104.7 - 106.8	2.1	N11	N11
2368	Quartzite (?) FWM pyrite; a little quartz	111.5 - 115.0	3.5	N11	N11
2369	50% carbonate in andesite, banded	125.1 - 126.2	1.1	N11 $\frac{1}{2}$	N11
2370	Diorite; FWM fine pyrite	133.4 - 137.0	3.6	N11	N11
2371	Banded andesite. A little pyrite, pyrrhotite	139.3 - 141.3	2.0	N11	N11
2372	Andesite with pyrite and pyrrhotite seams	141.3 - 146.9	5.6	N11	N11
2373	Carbonatized andesite with fair pyrite	151.4 - 152.5	1.1	N11	N11

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2374	Andesite, well mineralized pyrite, a little carbonate	167.7 - 171.5	3.6	Nil	Nil
2375	Barren quartz	172.4 - 173.1	0.7	Nil	Nil
2273	Andesite schist with a little quartz - Last of core and a speck of chalcopyrite or (VG?)	173.1 - 173.5	0.2	0.06	2.10

SLUDGE SAMPLES

0.0 -	10	Nil	Nil	80	-	m90	Tr	Tr
10 -	20	Nil	Nil	90	-	100	Nil	Nil
20 -	30	Nil	Nil	100	-	110	Nil	Nil
30 -	40	Tr	Tr	110	-	120	Nil	Nil
40 -	50	0.02	0.70	120	-	130	Nil	Nil
50 -	60	Tr	Tr	130	-	140	Nil	Nil
60 -	70	Nil	Nil	140	-	150	Nil	Nil
70 -	80	Tr	Tr	150	-	160	Nil	Nil
				160	-	170	Nil	Nil

GEOLOGY

0.0 -	3.0	Casing
3.0 -	46.0	Weakly banded andesite schist with a small percentage of carbonate stringers. The banding consists of biotite and chlorite.
46.0 -	47.7	Possibly sediments - tuffaceous; some pyrite.
47.7 -	51.5	Probably sediments with pyrite, pyrrhotite,, sphalerite.
51.3 -	56.5	Banded andesite or tuffaceous sediments.
56.5 -	79.4	Banded andesite schist.
79.4 -	82.0	Quartzitic sediment or possibly porphyry.
82.0 -	130.8	Andesite as above; in places with pseudosedimentary banding.
130.8 -	139.5	Younger intrusive diorite.
139.5 -	173.5	Banded andesite schist as above.

173.5

END OF HOLE

December, 1944

DIAMOND DRILL LOG
RODSTROM GROUP

DDH No. K-4.

Dip - 45°

Drilled by Norther DD Co.

Logged by J.A. Cluff

Re-logged by W.P. Corking

Bearing

Location:

No.	Description	Footage	Length	Assay Value	
				Oz/Ton	\$/Ton
2376	Andesite with quartz stringers up to 1"; 30% coarse py	10.7- 11.9	1.2	Nil	Nil
2377	20% qtz strs in andesite with a little pyrite	13.8 - 14.6	0.8	Nil $\frac{1}{2}$	Nil
2378	80% quartz in andesite FWM fine pyrite	19.0 - 19.8	0.8	Tr	Tr
2379	60% carbonate in andesite. FWM ^d pyrite; pyrrhotite	31.1 - 33.0	1.9	0.02	0.70
2380	40% irregular carb strs. FWM pyrite; much biotite	33.0 - 35.5	2.5	Tr	Tr
2381	Do	35.5 - 38.5	3.0	0.02	0.70
2382	20% carb strs in andesite. FWM fine pyrite	49.4 - 50.9	1.5	Tr	Tr
2383	Chloritic quartz and narrow carb strs. Arsenopyrite?	56.0 - 57.6	1.6	0.04	1.40
2384	Carbonatized andesite	57.6 - 59.2	1.6	Tr	Tr
2385	Quartz porphyry or quartzitic wediment; a little pyr $\frac{2}{4}$	70.6 - 75.2	4.6	Nil	Nil
2386	Carb'd andesite with narrow carb strs. VLM	75.2 - 76.9	1.7	Tr	Tr
2387	50% carbonate in andesite; blebby pyrite	90.0 - 91.0	1.0	0.02	0.70
2388	Quartzitic sediment or porphyry; FWM pyrite pyrite	131.2 - 133.4	2.2	Tr	Tr
2389	Quartzite or porphyry; FWM fine white mineral (As)	149.5 - 158.8	1.0	Nil	Nil
2390	Diorite with a few qtz strs. FWM pyrite	157.8 - 163.5	2.9	Tr	Tr
2392	5" carbonate vein	167.0 - 167.4	0.4	0.04	1.40

SLUDGE SAMPLES

0	-	10	Nil	Nil	80	-	90	Tr	Tr
10	-	20	Nil	Nil	90	-	100	0.02	0.70
20	-	30	Nil	Nil	100	-	110	Tr	Tr
30	-	40	Nil	Nil	110	-	120	Nil	Nil
40	-	50	0.02	0.70	120	-	130	Nil	Nil
60	-	70	Tr	Tr	130	-	140	Nil	Nil
70	-	80	Nil	Nil	140	-	150	Nil	Nil
					150	-	160	Nil	Nil
					160	-	170	Nil	Nil

GEOLOGY

0.0	-	3.0	Casing
3.0	-	30.8	Fairly normal green andesite schist.
30.8	-	33.0	Dark impure sediment.
33.0	-	40.0	Andesite as above.
40	-	63.2	Highly banded pseudo-sedimentary andesite schist.

GEOLOGY (continued)

63.2	-	65.8	Coarse fresh diorite.
65.8	-	70.6	Normal andesite.
70.6	-	75.2	Porphyry or possibly quartzitic sediment.
75.2	-	125.9	Andesite as above.
125.9	-	126.5	Pink quartzite or possibly a well banded aplite.
126.5	-	131.2	Andesite.
131.2	-	133.4	Pink quartzite as above.
133.4	-	135.2	Andesite.
135.2	-	153.4	Pink quartzite as above.
153.4	-	160.6	Fresh younger diorite.
160.6	-	172.6	Pink quartzite.
172.6	-	175.0	Dark impure sediments.
175.0	-	176.0	Andesite schist.
		176.0	<u>END OF HOLE</u>

December, 1944

DIAMOND DRILL LOG
RODSTROM GROUP

DDH No. K-5

Dip - 45°

Bearing

Location

Drilled by Northern DD Co.
Logged by J.A. Cluff
Relogged by W.P. Corking

No.	Description	Footage	Length	Assay O ₂ /Ton	Value \$/Ton
2393	Silicified andesite, a little pyrite	5.0 - 7.0	2.0	Tr	Tr
2394	30% silicified andesite with pyrite and possible As.	16.7 - 18.4	1.7	Nil	Nil
2395	Weakly silicified andesite. FWM fine pyrite	18.4 - 22.5	4.1	Nil	Nil
2396	Diorite with 30% fine silicification; FWM fine pyrite	31.2 - 34.4	3.2	Nil	Nil
2397	Diorite with 20% silicification; FWM pyrite; pyrrh;	34.4 - 38.0	3.6	Tr	Tr
2398	Diorite; 20% silicification; FWM pyrite	38.0 - 40.8	2.8	Tr	Tr
2399	Diorite; Some fine pyrite and pyrrhotite	40.8 - 43.4	2.6	0.02	0.70
2400	Amphibolite with coarse quartz blebs FWM pyrite	58.2 - 61.3	3.1	Tr	Tr
2201	Diorite; FWM pyrite	79.4 - 80.8	1.4	Tr	Tr

SLUDGE SAMPLES

0	-	10	Nil	Nil	80	-	90	Nil	Nil
10	-	20	Nil	Nil	90	-	100	Nil	Nil
20	-	30	Nil	Nil	100	-	110	Nil	Nil
30	-	40	Nil	Nil	110	-	120	Nil	Nil
40	-	50	Nil	Nil	120	-	130	Nil	Nil
50	-	60	Nil	Nil	130	-	140	Nil	Nil
60	-	70	Nil	Nil	140	-	150	Nil	Nil
70	-	80	Nil	Nil	150	-	158	Nil	Nil

GEOLOGY

0.0	-	5.0	Casing
5.0	-	30.6	Normal chloritic andesite, Uniform in texture.
30.6	-	58.3	Fresh younger diorite. Blocky.
58.3	-	109.0	Very coarse blocky, massive amphibolite. Older and quite soft. Occasional dikes of younger diorite cutting this rock at 64.2 - 65.8 - 68.0 - 69.5; 76.9 - 81.0.
109.0	-	112.5	Andesite schist with the schistosity parallel to the core.
112.5	-	121.5	Coarse amphibolite as above, or possibly of the younger variety.
121.5	-	128.7	Normal chloritic andesite schist.
128.7	-	131.0	Younger intrusive diorite.
131.7	-	137.5	Andesite schist.
137.5	-	145.0	Coarse younger diorite.
145.0	-	158.0	Andesite schist.

158.0

END OF HOLE

January 1945

DIAMOND DRILL LOG
Rodstrom group

DDH No. K-6

Bearing

Dip : 45°

Drilled by Northern DD. Co.
Logged by J.A. Cluff
Relogged by W.P. Corking

No.	Description	Footage	Length	Assay Value	
				Oz/Ton	\$/Ton
2202	Andesite; FWM pyrite	3.0 - 5.4	2.4	Ni1 $\frac{1}{4}$	Ni1
2203	Andesite with a little chloritic quartz; FWM pyr; pyrrh	12.2 - 14.9	2.7	Tr	Tr
2204	Andesite with 30% carbonate; FWM fine pyr; pyrrh;	19.2 - 21.0	1.8	0.02	0.170
2205	Silicified andesite; a little pyr; pyrrh	24.1 - 26.0	(Tr	Tr	1.9')
2206	Diorite; FWM pyrite; pyrite	77.4 - 79.0	1.6	Ni1	Ni1
2207	Barren quartz $\frac{1}{4}$	89.8 - 90.3	0.5	Ni1	Ni1
2208	Quartzite (?) Some fine pyrite and arsenopyrite(?)	98.6 - 100.0	1.4	Ni1	Ni1
2209	Andesite with some quartz and narrow carb str. FWM pyrite	138.5 - 141.8	3.3	Ni1	Ni1
2210	70% quartz stringers in andesite with some fine pyr	151.5 - 152.6	1.1	Ni1	Ni1

SLUDGE SAMPLES

0	-	10	Tr	Tr	80	-	90	Ni1	Ni1
10	-	20			90	-	100	Ni1	Ni1
20	-	30	Tr-	Tr	100	-	110	0.02	0.70
30	-	40	Ni1 $\frac{1}{4}$	Ni1	110	-	120	Tr	Tr
40	-	50	Ni1 $\frac{1}{2}$	Ni1	120	-	130	Ni1	Ni1
50	-	60	Ni1	Ni1	130	-	140	Ni1	Ni1
60	-	70	Ni1	Ni1	140	-	150	Ni1	Ni1
70	-	80	Ni1	Ni1	150	-	153	Ni1	Ni1

GEOLOGY

0.0	-	3.0	Casing.
3.0	-	5.4	Normal green andesite schist.
5.4	-	8.0	Siliceous mauve rock; probably quartzitic sediment.
8.0	-	44.0	Highly banded biotite-chlorite schist. Probably andesite.
44.0	-	58.3	Normal green andesite schist.
58.3	-	78.5	Fresh younger intrusive diorite.
78.5	-	79.1	Andesite
79.1	-	106.0	Quartzite (?)
106.0	-	113.0	Well banded pseudo-sedimentary andesite schist.
113.0	-	118.0	Younger intrusive diorite.
118.0	-	125.7	Normal andesite schist.
125.7	-	133.6	Younger intrusive diorite.
133.6	-	153.0	Andesite as above, becoming well banded as above at 141'

153.0

END OF HOLE

Dip 0°

Drilled by Northern DD Co.
Logged by J.A. Cluff
Re-logged by W.P. Gorking

Bearing Location

No.	Description	Footage	Length	Assay Value	
				lbs/Ton	\$/Ton
2211	Andesite, FWM pyrite	5.1 - 7.7	2.6	Nil	Nil
2212	Andesite with 20% quartz stringers. Fine pyr; pyrrh	14.8 - 17.2	2.4	Tr	Tr
2213	50% carbonatized sediment with bands pyr; pyrrhotite	31.6 - 33.0	1.4	0.02	0.70
2214	80% carbonatized sediment with bands pyr; pyrrh; chal.	33.0 - 34.7	1.7	0.02	0.70
2215	30% carbonatized andesite. FWM fine pyrite	41.4 - 42.5	1.1	Tr	Tr
2216	10% quartz-carbonate in andesite	54.8 - 60.3	1.9	Nil	Nil
2217	15% carbonate in carbonatized andesite a little pyr	60.3 - 63.0	2.7	Nil	Nil
2218	60% carbonatized andesite VLM	65.0 - 66.5	1.5	Nil	Nil
2219	Andesite with carb str to 1"; FWM pyrite; pyrrh.	77.6 - 79.6	2.0	Nil	Nil
2220	Andesite with narrow carb str. FWM pyrite	82.6 - 83.5	0.9	Nil	Nil
2221	Quartz with pyrite	88.0 - 88.4	0.4	Tr	Tr
2222	Andesite VWM fine pyrite	99.0 - 100.2	1.2	0.06	2.10
2223	Carbonatized andesite. VWM - fine pyrite	104.7 - 105.7	1.0	Tr	Tr
2224	Carbonatized andesite. FWM pyrite	110.6 - 111.4	0.8	Nil	Nil
2225	Carbonatized andesite with pyrite	125.2 - 126.6	1.4	Nil	Nil

SLUDGE SAMPLES

0	-	10	Nil	Nil	80	-	90	Nil	Nil
10	-	20	Nil	Nil	90	-	100	Nil	Nil
20	-	30	Nil	Nil	100	-	110	Nil	Nil
30	-	40	Nil	Nil	110	-	120	Nil $\frac{1}{4}$	Nil
40	-	50	Nil	Nil	120	-	130	Nil	Nil
50	-	60	Nil	Nil	130	-	140	Nil	Nil
60	-	70	Nil $\frac{1}{4}$	Nil	140	-	150	Nil	Nil
70	-	80	Nil	Nil					

GEOLOGY

0.0	-	2.8	Casing
2.8	-	5.0	Coarse younger intrusive diorite.
5.0	-	24.9	Fairly normal green andesite schist.
24.9	-	28.0	Medium grained younger intrusive diorite.
28.0	-	31.6	Andesite schist. Rather well silicified.
31.6	-	34.7	Carbonatized sediments with pyrite, pyrrhotite.

34.7 - 58.6 Well banded andesite schist with a little pyrite, pyrrhotite and locally a few specks of chalcopyrite.

58.6 - 69.8 Sharp transition to a well developed serpentine rock.

69.8 - 75.5 Well developed pinkish-mauve feldspar porphyry.

75.5 - 106.1 Pseudo-sedimentary banded andesite schist.
81.0 - 82.6 - Schisted aplitic dike.

106.1 - 110.0 Younger intrusive diorite.

110.0 - 143.7 Andesite schist with pseudo-sedimentary banding up to 115' and after 132' with a massive section between.

143.7 - 147.5 Massive, mauve silicified rock as previously described. Here it looks more like a schisted aplite than a quartzitic sediment.

147.5 - 153.0 Andesite schist with pronounced banding.

153.0 END OF HOLE

NOTE: THE FOLLOWING CORE SAMPLES WERE ALSO TAKEN:

2276	Andesite schist with a little quartz; pyrite; pyrrhotite	34.7 - 38.0	3.3	Tr	Tr
2277	Do. Do.	38.0 - 41.4	3.4	Tr	Tr
2278	Siliceous andesite schist; a little pyrite and pyrrhotite with some fine chalcopyrite	52.0 - 52.9	0.9	Tr	Tr

March, 1945.

DIAMOND DRILL LOG
RODSTROM GROUP

DH No. K-8

Dip: -45°

Location:

Drilled by Labine
Logged by W.P. Gorking

Bearing:

No.	Description	Footage	Assay Value		
			Length	Oz/Ton	\$/Ton
4359	Silicification in younger diorite; A little pyrite	257.0 - 257.6	0.6	Tr	Tr
4360	Siliceous iron formation; a little vein qtz; 2% pyr	297.4 - 298.3	0.9	0.01	0.35
4361	Biotite-chlorite orthoschist; a little pyrite, pyrrhotite and two stringers quartz	298.3 - 300.8	2.5	Tr	Tr
4362	Tuffaceous paraschist; 4" quartz; pyr; pyrrh.	300.8 - 302.0	1.2	0.01	0.35
4363	Tuffaceous paraschist; a little quartz	302.2 - 302.9	0.9	0.01	0.35
4364	Do; siliceous; 5% vein quartz; pyrite; pyrrhotite	302.9 - 304.5	1.6	Tr	Tr
4365	Orthoschist	304.5 - 307.0	2.5	0.01	0.35
4366	IF; FWM pyrite; pyrrhotite; 5% mauve metallic, possibly arseno pyrite or Co. A little quartz	307.0 - 308.1	1.1	0.23	6.05
4367	Green paraschist	308.1 - 310.9	2.8	0.01	0.35
4368	Grey-green paraschist with garnet	310.9 - 312.5	1.6	Tr	Tr
4369	Do; Some quartz - Garnet	312.5 - 313.2	0.7	0.01	0.35
4370	Grey-green tuffs	313.2 - 315.0	1.8	0.01	0.35
4371	Brecciated serpentine-carbonate schist. VLM - Zone of movement?	315.0 - 316.3	1.3	Tr	Tr
4372	Paraschist with a little quartz	316.3 - 317.5	1.2	Tr	Tr
4373	Green paraschist	317.5 - 320.4	2.9	Nil	Nil
4374	Paraschist; 1/2", 1" quartz	320.4 - 322.4	2.0	Tr	Tr
4375	IF; a little quartz; some pyrite, pyrrhotite	322.4 - 323.3	0.9	0.05	1.75
4376	IF - a little quartz	323.3 - 324.3	1.0	0.01	0.35
4377	Coarse andesite with a little quartz	324.3 - 326.1	1.8	0.02	0.70
4378	Coarse andesite with 20% quartz stringers	326.1 - 327.5	1.4	Tr	Tr
4379	Siliceous greywacke - VLM	327.5 - 329.5	2.0	Tr	Tr
4380	Coarse andesite or old diorite; 10% quartz-carbonate A little pyrite, pyrrhotite	330.0 - 331.8	1.8	0.01	0.35
4381	Mauve quartzite (?) - VLM	342.9 - 347.6	4.7	Nil	Nil
4382	2" quartz in andesite schist	352.2 - 353.2	1.0	0.01	0.35

4383	3" quartz-tourmaline	357.8 - 359.4	0.7	Nil	Nil
4384	Green andesite schist; a few quartz threads	359.4 - 361.3	1.9	Nil	Nil
4385	Mostly vein quartz. FWM coarse pyrite with some pyrrhotite and chalcopyrite	381.3 - 362.2	0.9	0.01	0.35
4386	Green andesite schist. Few quartz threads	362.2 - 364.4	2.2	Tr	Tr
4387	Do. 3" quartz	364.4 - 365.4	1.0	0.01	0.35
4388	8" carbonate with other stringers. VLM	371.9 - 372.1	1.2	Nil	Nil
4389	Andesite schist with a little carbonate VLM	372.1 - 373.9	2.0	Tr	Tr
4390	7" vein carbonate with a little later quartz VLM	394.3 - 395.1	0.8	Nil	Nil
4391	Paraschist with 2" carb. VLM	395.1 - 396.5	1.4	0.01	0.35
4392	Mostly quartzite (?)	414.0 - 416.3	2.3	0.01	0.35
4393	Dull green quartz. VLM	416.3 - 417.2	0.9	Tr	Tr
4394	Dull green quartz at contact VLM	422.4 - 423.3	0.9	Tr	Tr
4395	Siliceous quartzite with a little quartz; VLM	423.3 - 424.9	1.6	Tr	Tr
4396	Tuffs with some quartzite; 1" quartz; VLM	424.9 - 425.9	1.0	0.01	0.35
4397	Quartzite	425.9 - 427.1	1.2	0.01	0.35
4398	Quartzite with a few quartz stringers	427.1 - 427.9	0.8	Tr	Tr
4399	Quartzite	427.9 - 431.0	3.1	Tr	Tr
4400	Do. With a little quartz	431.0 - 433.1	2.1	0.01	0.35
4401	Quartzite	433.1 - 434.8	1.7	0.01	0.35
4402	Do. A little quartz with some pyrite	434.8 - 436.2	1.4	Tr	Tr
4403	Quartzite	436.2 - 438.5	2.3	Nil	Nil
4404	Do. 3 - 4" quartz	438.5 - 439.5	1.0	0.01	0.35
4405	Quartzite	439.5 - 440.8	1.3	0.01	0.35
4406	Do. 2" quartz	440.8 - 441.3	0.5	Tr	Tr
4407	Quartzite	441.3 - 444.3	3.0	Tr	Tr
4408	Do. 4" milky quartz	444.3 - 445.2	0.9	0.03	1.05

	Quartzite - somewhat impure	445.2 - 449.7	4.5	0.01	0.35
4410	Do. (Siliceous greywacks), 1" quartz	449.7 - 454.4	4.7	0.01	0.35
4411	Greywacke	454.4 - 455.9	1.5	Tr	Tr
4412	Greywacke with a little quartz	455.9 - 458.0	2.1	Tr	Tr
4413	Greywacke with some greenstone	458.0 - 460.2	2.2	0.01	0.35
4414	Do.	460.2 - 463.3	3.1	0.02	0.70
4415	Impure quartzite with some andesite; 2 1/2", 1" quartz	463.3 - 466.2	2.9	Tr	Tr
4416	Green andesite schist; 1", 2" quartz; VLM	492.2 - 492.9	0.7	0.03	1.05
4417	Green andesite schist	492.9 - 494.6	1.7	0.01	0.35
4418	Do. 20% quartz stringers	494.6 - 496.2	1.6.	Tr	Tr
4419	Green andesite schist with some quartz threads; Traces chalcopyrite	513.7 - 517.0	3.3	Tr	Tr
4420	Do. Do.	517.0 - 518.4	1.4	0.01	0.35
4421	Do. 2" quartz with a little chalcopyrite	518.4 - 519.3	0.9	0.01	0.35
4422	Green andesite schist	519.3 - 521.4	2.4	Tr	Tr
4423	Massive green andesite schist; 50% quartz stringers	547.4 - 551.5	4.1	0.01	0.35
4424	Paraschist (?); 5% quartz VLM	560.3 - 561.7	1.4	Tr	Tr
4425	7" quartz-tourmaline	564.2 - 565.1	0.9	Tr	Tr
4427	Paraschist with a few glassy qtz stringers	569.6 - 572.9	3.5	0.01	0.35

SLUDGE SAMPLES

102	-	110	Tr	Tr	290	-	300	0.01	0.35
110	-	120	0.01	0.35	310	-	320	0.03	1.05
120	-	130	0.01	0.35	320	-	330	0.01	0.35
130	-	140	Tr	Tr	330	-	340	Tr	Tr
140	-	150	Tr	Tr	340	-	350	0.01	0.35
150	-	160	Tr	Tr	350	-	360	Nil	Nil
160	-	170	0.02	0.70	360	-	370	0.01	0.35
170	-	180	0.01	0.35	370	-	380	Tr	Tr
180	-	190	Tr	Tr	380	-	390	Tr	Tr
190	-	200	0.01	0.35	390	-	400	Tr	Tr
200	-	210	Nil	Nil	400	-	410	0.01	0.35
210	-	220	0.01	0.35	410	-	420	Tr	Tr
220	-	230	Tr	Tr	420	-	430	0.01	0.35
230	-	240	Tr	Tr	430	-	440	Tr	Tr
240	-	250	Tr	Tr	440	-	450	Tr	Tr
250	-	260	0.01	0.35	450	-	460	Tr	Tr
260	-	270	Tr	Tr	460	-	470	Tr	Tr
270	-	280	0.01	0.35	470	-	480	0.01	0.35
280	-	290	0.01	0.35	480	-	490	Tr	Tr
					490	-	500	Nil	Nil

RODSTROM GROUP

500	-	510	Nil	Nil	580	-	590	Tr	Tr
510	-	520	Tr	Tr	590	-	600	Tr	Tr
520	-	530	0.01	0.35	600	-	610	0.02	0.70
530	-	540	0.01	0.35	610	-	620	0.01	0.35
540	-	550	Tr	Tr					
550	-	560	Tr	Tr					
560	-	570	0.01	0.35					
570	-	580	0.01	0.35					

GEOLOGY

0.0	-	101.6	Casing						
101.6	-	107.6	Pale green soft serpentine-carbonate schist with some quartz veinlets. Schistosity about 60° to core. Sparse mineralization.						
107.6	-	134.5	Medium to coarse younger intrusive diorite.						
134.5	-	154.0	Serpentine-carbonate schist as above.						
			138.0 - 144.0 Ground core.						
			147.3 - 148.0 Younger diorite.						
			151.6 - 152.5 Younger diorite.						
154.0	-	159.0	Very highly altered older diorite sill (?)						
159.0	-	167.3	Serpentine schist.						
167.3	-	169.4	Serpentine Older altered diorite.						
169.4	-	182.0	Serpentine schist.						
182.0	-	183.2	Coarse younger diorite.						
183.2	-	183.9	Serpentine schist.						
183.9	-	189.4	Very fine-grained chlorite schist; banded, with some biotite streaks and lenses. Probably flow, possibly paraschist.						
189.4	-	192.3	Coarse younger diorite.						
192.3	-	220.8	Serpentine schist.						
			Younger intrusive diorite dikes at: 192.7 - 194.0; 195.8 - 197.5; 198.4 - 199.6; 200.5 - 201.0; 203.8 - 204.7; 206.5 - 207.5; 219.4 - 220.8.						
220.8	-	239.5	Green andesite schist with a few narrow diorite dikes.						
239.5	-	241.4	Younger diorite.						
241.4	-	246.5	Andesite schist. Younger intrusive diorite dikes at: 242.0 - 243.0; 244.0 - 245.2.						
246.5	-	275.3	Coarse younger diorite alternating with a very coarse amphibolite, in quantity about 50% of each. The diorite appears younger.						
275.3	-	297.4	Andesite schist alternating with intrusive younger diorite at: 276.0 - 277.2; 282.6 - 283.5; 284.5 - 285.9; 286.5 - 293.2; 294.5 - 297.4						
297.4	-	323.6	Banded paraschist, locally siliceous and approaching iron formation in texture and composition. Some short sections may be orthoschist. Note the absence of the diorite dikes seen in the first section.						
323.6	-	327.0	Dioritic flow(?) with some quartz at contact.						
327.0	-	329.0	Fine-grained mauve coloured rock. Probably sedimentary - quartzite.						
329.0	-	343.0	Green andesite schist.						
343.0	-	347.5	Siliceous mauve quartzite, somewhat impure.						
347.5	-	380.1	Green andesite schist with some glassy quartz stringers.						
			352.0 - 352.4 - Quartzite.						
			372.0 - 375.0 - Vein carbonate.						
380.1	-	382.7	Younger intrusive diorite.						
382.7	-	392.6	Andesite orthoschist.						
392.6	-	409.0	Similar appearing rock but paraschist, tuffaceous.						
409.0	-	414.3	Green andesite schist.						

414.3 - 415.7 Mauve quartzite (?)
 415.7 - 422.5 Andesite schist including 10" quartz at 416.3
 422.5 - 472.2 Mauve quartzite with 6" quartz at upper contact and 3 - 4" quartz at 439'. Gradually becoming more impure at 443' until it is more of a greywacke. Small beds of flow material at: 458.8 - 459.6; 461.8 - 462.1; 465.1 - 466.0; 468.5 - 469.8. Intrusive diorite dike at 467.0 - 467.6.
 472.2 - 474.3 Tuffaceous paraschist.
 474.3 - 491.7 Younger intrusive diorite.
 491.7 - 496.6 Green andesite schist.
 496.6 - 501.0 Green paraschist. (?)
 501.0 - 559.0 Green andesite schist.
 559.0 - 574.0 Green tuffaceous paraschist.
 574.0 - 575.6 Younger intrusive diorite.
 575.6 - 581.0 Green paraschist.
 581.0 - 582.3 Mauve quartzite.
 582.3 - 626.0 Green paraschist with 2" good tuffs at 583.0.

NOTE: It is very difficult to place the contact between the flows and tuffs here.

626.0

END OF HOLE

April, 1945.

DIAMOND DRILL LOG
MACBUCK RED LAKE GOLD MINES LTD
(Rodstrom Group)

DDH No. K-9

Bearing:

Dip :

Location:

Drilled by Labine DD Co.
Logged by W.P. Corcking.

No.	Description	Footage	Assay Value			
			Length	Oz/Ton	\$/Ton	
4459	Green andesite with a few quartz stringers. VLM	21.5 - 27.5	6.0	Tr	Tr	
4460	2" quartz VLM	38.5 - 38.9	0.6	0.01	0.35	
4461	2" quartz with a little pyrite, sphalerite	41.8 - 42.4	0.6	Tr	Tr	
4462	Contorted andesite schist with a little carbonate, quartz and some pyrite, pyrrhotite	44.7 - 47.9	3.2	0.01	0.35	
4463	Green andesite schist with a few quartz stringers	50.4 - 52.6	2.2	Tr	Tr	
4464	Carbonatized andesite schist with a little quartz	54.2 - 56.2	2.0	Tr	Tr	
4465	Do. Do.	56.2 - 57.2	1.0	Tr	Tr	
4466	Contorted acarbonatized andesite schist; a little quartz and pyrite	57.2 - 59.4	2.2	$\frac{1}{4}$ Tr	Tr	
4467	Highly altered silicified greenstone - VLM	64.2 - 69.2	5.0	0.01	0.35	
4468	2" quartz-carbonate in brown altered andesite. FWM pyrite, sphalerite and chalcopyrite	80.7 - 81.8	1.1	0.01	0.35	
4469	Altered greenstone with a few stringers	81.8 - 83.6	1.8	0.01	0.35	
4470	Irregular green andesite schist; a little quartz	86.9 - 88.4	1.5	Tr	Tr	
4471	Do. Somewhat brecciated and carbonatized	88.4 - 90.1	1.7	0.01	0.35	
4472	Very irregular andesite schist - 2" quartz	90.1 - 91.1	1.0	0.01	0.35	
4473	Irregular andesite schist	91.1 - 93.0	1.9	Tr	Tr	
4474	Siliceous iron formation - FWM pyrite and pyrrhotite	93.0 - 95.3	2.3	0.04	1.40	
4475	Do. 3" quartz with a little arsenopyrite	95.3 - 96.9	1.6	Tr	Tr	
4476	Tuffs; A little pyrite, chalcopyrite	101.3 - 102.5	1.2	0.01	0.35	
4477	Green andesite schist with a little quartz	102.5 - 104.1	1.6	Tr	Tr	
4478	Brown tuffs; 10% pyrite; 10% fine arsenopyrite and a little quartz	104.1 - 106.5	2.4	0.01	0.35	
4479	6" irregular quartz with chlorite; a little pyrite and arsenopyrite	106.5 - 107.6	1.1	0.01	0.35	
4480	Tuffs (?) FWM pyrite, pyrrhotite; some chalcopyrite	109.9 - 111.5	1.4	0.01	0.35	
4481	Cherty tuffs with some qtz; carbonate stringers. FWM pyrite and pyrrhotite	113.6 - 116.7	3.1	Tr	Tr	

4482	Contorted cherty tuffs or IF; fair qtz & carb str FWM pyrite, pyrrhotite, a little galena, sphalerite	116.7 - 118.2	1.5	0.05	1.75
4483	Cherty tuffs with a little pyrite, pyrrhotite; Some quartz carbonate	118.2 - 120.0	1.8	0.02	0.70
4484	Cherty IF with a little pyrite, pyrrhotite; garnet	120.0 - 121.0	1.0	0.01	0.35
4485	Cherty IF; 10% pyrrhotite and a little pyrite	121.0 - 122.6	1.6	0.02	0.70
4486	Somewhat contorted tuffs and andesite. A little quartz and carbonate; 10% pyrrhotite; some pyrite	122.6 - 125.3	2.7	0.02	0.70
4487	Massive gneissoid andesite schist; VLM	125.3 - 127.9	4.6	Tr	Tr
4488	Do. A little more schisted; some pyrite pyrrhotite	127.9 - 129.6	1.7	0.01	0.35
4489	Contorted tuffs and a little quartz and carbonate Garnet; VWM pyrrhotite, sphalerite, pyrite, some chalcopryrite	129.6 - 131.3	1.7	Tr	Tr
4490	Green andesite schist. Somewhat gneissoid. A little carbonate but VLM	131.3 - 134.3	3.0	Tr	Tr
4491	Massive andesite with two dioritic dikes. A little carbonate but VLM	139.4 - 141.8	2.4	0.05	1.75
4492	Somewhat sheared andesite with carbonate threads	141.8 - 145.1	3.3	Tr	Tr
4493	Do. Do.	145.1 - 147.3	2.2	Nil	Nil
4494	Cherty tuffs (?) 25% glassy quartz in which 10% pyrite	171.4 - 173.5	2.1	0.01	0.35
4495	Andesite schist. Green with a little brown alter'n	173.5 - 177.5	4.0	Tr	Tr
4496	Bleached granite with $\frac{1}{2}$ " quartz; a little pyrite	213.5 - 215.0	1.5	Tr	Tr
4497	3 - 4" milky quartz with a little pyrite	325.0 - 325.7	0.7	0.01	0.35
4498	1" quartz - VLM	331.4 - 332.8	0.4	0.01	0.35
4499	3" quartz in sericitized granite - a little pyrite	561.9 - 562.6	0.7	Nil	Nil
4500	2" milky quartz - VLM	564.1 - 564.6	0.5	Nil	Nil
6001	Gneissoid andesite schist VLM	624.7 - 626.6	1.9	Nil	Nil
6002	Gneissoid andesite schist 20% quartz str. VLM	633.0 - 633.7	0.7	Tr	Tr
6003	Irregular tension quartz; milky; VLM	693.3 - 694.3	1.0	0.01	0.35
6004	Do; a little pyrite	702.6 - 704.3	1.7	Tr	Tr
6005	Resinous quartz at a small angle to core FWM pyrite and pyrrhotite	710.2 - 711.8	1.6	0.01	0.35
6006	Milky tension quartz; VLM	715.9 - 716.6	0.7	Tr	Tr

6007	40% milky-resinous quartz; a little pyrite	728.5 - 729.5	1.0	0.01	0.35
6008	Hornblendite schist; VLM	734.1 - 735.7	1.6	0.01	0.35
6009	Banded schist; 50% mineralized with pyrrhotite, sphalerite, pyrite, galena, a little chalcopyrite, and arsenopyrite; Some quartz	735.7 - 737.3	1.6	0.15	5.25
6010	Do. Some garnet and heavier arsenopyrite	737.3 - 738.4	0.04	1.40	1.1'
6011	Banded andesite schist VLM	738.4 - 740.0	1.6	0.01	0.35
6012	8" dull green quartz-carbonate with other str; VLM	770.7 - 773.8	3.1	Tr	Tr
6013	2" concentration of galena, sphalerite	819.7 - 820.4	0.7	Tr	Tr
6014	Banded andesite schist with 10% quartz-carbonate	823.5 - 825.8	2.3	Tr	Tr

GEOLOGY

0.0	-	13.3	Casing.
13.3	-	16.2	Rather massive, fine-grained andesite.
16.2	-	18.8	Feldspar porphyry - mauve.
18.8	-	93.0	Andesite as above; at 23' becoming somewhat schistose and a little carbonatized with a few quartz stringers. Locally there is considerable crenulation in the schistosity and a little minor post-quartz faulting.
93.0	-	97.0	Siliceous iron formation. Fairly well mineralized with some quartz.
97.0	-	101.3	Green-brown andesite schist (banded).
101.3	-	102.2	Banded tuffs.
102.2	-	104.2	Brown altered andesite schist.
104.2	-	107.3	Brown-green banded tuffs with a little quartz; Fairly well mineralized with pyrite and much fine arsenopyrite.
107.3	-	109.9	Irregular green andesite.
109.9	-	111.0	Tuffs.
111.0	-	113.9	Green andesite schist.
113.9	-	125.0	Mineralized and locally contorted tuffs and/or Iron Formation.
125.0	-	170.6	Green andesite schist with local brown sections, mineralized. Locally gneissoid and locally sheared.
171.6	-	173.4	Lean Iron Formation and/or tuffs. Some quartz.
173.4	-	178.8	Andesite as described above.
178.8	-	181.7	Medium to coarse grained grey younger intrusive diorite.
181.7	-	199.8	Andesite schist.
199.8	-	572.7	Massive grey biotite granite. A short distance within the contact, the texture, colour, grain etc., are very uniform - probably . Some phases have pink and grey feldspar together.
572.7	-	585.8	433.0 - 434.8 - Basic dike or inclusion, fine-grained, green-black. VLM Green andesite schist with local brown alteration with garnet.
585.8	-	587.4	Banded tuffs.
587.4	-	624.0	Andesite as above. Highly banded. Note that there is no granitization.
624.0	-	624.7	100% pyrrhotite, arsenopyrite, pyrite, chalcopyrite, sphalerite etc.
624.7	-	626.6	Andesite schist as above.
626.6	-	630.4	Massive grey feldspar porphyry.
630.4	-	670.0	Andesite schist as above. Massive and locally gneissoid.
670.0	-	735.7	Long gradation (10 - 15') into a coarse hornblendite which looks intrusive except for the contact. Probably a flow. A few glassy quartz tension stringers.

735.7 - 738.2 Zone of pyrrhotite, pyrite, arsenopyrite, sphalerite, galena etc.,
with some quartz and garnet.
738.2 - 828.0 Normal banded andesite schist.
828.0 END OF HOLE

NOTE: THE FOLLOWING CORE SAMPLES WERE ALSO TAKEN

2293	Brown altered andesite with garnet. A little sphalerite	579.3 - 580.4	1.1	Nil	Nil
2294	Brown altered andesite schist. VLM	584.4 - 585.8	1.4	Tr	Tr
2295	Tuffs with 5% quartz. FWM pyrrhotite, pyrite, a l. chalc	585.8 - 587.4	1.6	0.02	0.70
2296	Brown altered andesite schist, garnet	594.1 - 595.2	1.1	Tr	Tr
2297	3" glassy quartz 608	608.5 - 609.1	0.6	Tr	Tr
2298	Gneissoid andesite schist. A little quartz - VLM	620.0 - 622.0	2.0	0.01	0.35
2299	Do; 12" biotite alteration	622.0 - 624.0	2.0	Nil	Nil
2300	99% sulphides; pyrrhotite, arsenopyrite, pyrite and sphalerite	624.0 - 624.7	0.7	0.06	2.10

April-May, 1945.

DIAMOND DRILL LOG
MRCBUCK RED LAKE GOLD MINES LTD

DDH No. K-10

Bearing:

Dip :

No.	Description	Footage	Length	Assay Value	
				Oz/Ton	\$/Ton
6015	Contorted andesite schist with a little carbonate, FWM pyrite and pyrrhotite	27.4 - 30.1	2.7	0.01	0.35
6016	Do.	31.5 - 33.9	2.4	Tr	Tr
6017	Grey banded andesite schist with a few quartz-carbonate stringers. A little pyrite	69.4 - 71.5	2.1	Nil	Nil
6018	Do. Do.	76.1 - 77.9	1.8	0.01	0.35
6019	Sheared grey porphyry with 1% quartz; a little pyr; Sn	238.5 - 241.3	1.8	0.01	0.35
6020	Irregular banded andesite schist, a few quartz str and a little pyrite and pyrrhotite	241.5 - 242.8	1.3	Tr	Tr
6021	Andesite schist 2% quartz; a little pyrite & pyrrh	249.5 - 251.5	2.0	Tr	Tr
6022	Do. Do.	262.1 - 263.9	1.8	Nil	Nil
6023	Brown tuffs with a little quartz up to $\frac{1}{2}$ " ; a little pyrite, pyrrhotite, sphalerite; arsenopyrite	280.8 - 282.7	1.9	0.17	5.95
6024	Brown tuffs with a little quartz and some pyrite, pyrrhotite, Traces arsenopyrite, chalcopryite	285.7 - 288.2	2.5	Tr	Tr
6025	Sheared sericitic feldspar porphyry VIM	293.4 - 296.6	3.2	0.01	0.35
6026	18" dull grey quartz-carbonate breccia VIM	355.8 - 357.5	1.7	0.04	1.40
6027	Amygdaloidal andesite schist, a little quartz with some pyrite, pyrrhotite and sphalerite	357.5 - 358.5	1.0	0.02	0.70
6028	Brown tuffs with a little pyrite, pyrrhotite	466.2 - 467.3	1.1	0.01	0.35
6029	14", 4" carbonate with quartz veining. FWM pyrite, pyrrhotite, a little sphalerite and galena	492.5 - 494.4	1.9	Tr	Tr
6030	4" translucent chloritic quartz. A little pyrite pyrrhotite, chalcopryite, sphalerite, galena	542.2 - 542.9	0.7	Tr	Tr
6031	Tuffs. Brown FWM pyrrhotite, a little pyrite and chalcopryite	542.9 - 544.7	1.8	0.01	0.35
6032	Do; Do.	544.7 - 547.3	2.6	Tr	Tr
6033	Highly contorted tuffaceous garnet schist; FWM with pyrrhotite	563.9 - 565.9	2.0	Tr	Tr
6034	Do. Do. Do.	565.9 - 568.9	3.0	Tr	Tr
6035	Massive brown andesite schist	568.9 - 570.4	1.5	Tr	Tr

6036	Irregular vein carbonate - VLM	577.7 - 579.0	1.3	0.01	0.35
6036	Irregular vein-carbonate	577.7 - 579.0	1.3	0.01	0.35
6037	8" vein-quartz - Glassy	636.6 - 637.5	0.9	0.01	0.35
6038	8" glassy vein quartz with other stringers	715.2 - 717.4	2.2	Tr	Tr
6039	3" quartz in andesite schist. Some local pyrite and pyrrhotite aggregations	738.6 - 741.2	2.6	Tr	Tr
6040	2" quartz in andesite schist. A little pyrite, pyrrhotite, chalcopyrite in the walls	744.5 - 745.5	1.0	0.05	1.75
6041	A few quartz stringers in andesite schist. A little pyrite, pyrrhotite, sphalerite, galena	761.5 - 765.2	3.7	0.01	0.35

GEOLOGY

0.0 - 16.5	Casing
16.5 - 132.9	Very strongly schisted and contorted banded andesite near the collar becoming more massive. Schistosity at about 30° to the core.
132.9 - 143.2	Medium to coarse grained younger diorite.
143.2 - 152.9	Banded andesite schist as above.
152.9 - 157.9	Younger diorite..
157.9 - 160.0	Andesite schist as above.
160.0 - 167.0	Younger diorite.
167.0 - 173.2	Andesite schist as above.
173.2 - 184.8	Younger intrusive diorite.
184.8 - 272.2	Slightly schisted, more dioritic andesite schist, gradually becoming well banded again around 215'.
	239.8 - 241.2 - Sheared grey porphyry.
272.2 - 275.4	272.2 - 275.4 Younger intrusive diorite.
275.4 - 280.7	Well banded andesite schist.
280.7 - 282.6	Finely bedded brown tuffs. A little quartz and sulphides.
282.6 - 286.7	Banded andesite schist.
286.7 - 293.4	Brown tuffs as above.
293.4 - 296.6	Sheared sericite porphyry (Feldspar).
296.6 - 297.8	Tuffs as above.
297.8 - 327.2	Well banded gneissoid andesite schist.
327.2 - 335.7	Light grey sheared rhyolite (?) or possibly an older type of porphyry than usual.
225.7 - 341.0	Normal green andesite schist.
341.0 - 343.3	Older Rhyolite (?) - as above.
343.3 - 347.8	Older intrusive diorite.
347.8 - 466.3	Highly amygdaloidal andesite schist.
466.3 - 467.2	Brown tuffs with some sulphides.
467.2 - 473.4	Banded andesite schist.
473.4 - 477.0	Medium grained younger diorite.
477.0 - 532.1	Grey-brown andesite schist (banded) Locally gneissoid texture.
532.1 - 539.5	Medium-grained younger intrusive diorite.
539.5 - 547.7	Irregular textured andesite schist or possibly tuffs. Some red garnet.
547.7 - 564.2	Light grey rhyolite as above. Well schisted. Possibly a sheared porphyry Some quartz eyes.
564.2 - 568.7	Very irregular contorted garnet schist. Probably tuffs.
568.7 - 812.0	Andesite schist.
812.0	

END OF HOLE

DIAMOND DRILL LOG

MACHUCK RED LAKE GOLD MINES LTD

SLUDGE SAMPLES

0 - 30	--	0.01	0.35	160 - 170	--	Tr	Tr
30 - 40	--	0.01	0.35	170 - 180	--	Nil	Nil
40 - 50	--	0.01	0.35	180 - 190	--	T	Tr
50 - 60	--	Tr	Tr	190 - 200	--	0.01	0.35
60 - 70	--	0.02	0.70	200 - 210	--	0.01	0.35
70 - 80	--	0.01	0.35	210 - 220	--	Tr	Tr
80 - 90	--	Tr	Tr	220 - 230	--	Tr	Tr
90 - 100	--	Tr	Tr	230 - 240	--	0.02	0.70
100 - 110	--	Tr	Tr	240 - 250	--	0.01	0.35
110 - 120	--	0.01	0.35	250 - 260	--	Tr	Tr
120 - 130	--	Tr	Tr	260 - 270	--	0.03	1.05
130 - 140	--	Tr	Tr	270 - 280	--	0.01	0.35
140 - 150	--	0.01	0.35	280 - 290	--	Tr	Tr
150 - 160	--	Nil	Nil	Return water last at this point.			

June, 1945.

DIAMOND DRILL LOG
MACBUCK RED LAKE GOLD MINES LTD

DDH No. K-11x

Coring:

Location:

Drilled by Prochuk

Dip : -45°

Logged by W.P. Corking.

No.	Description	Footage	Assay Value			
			Length	Ox/Ton	\$/Ton	
6336	Dark grey contorted sediment; 20% porphyry	16.2 - 18.3	2.1	Nil	Nil	
6337	Some silicified diorite included, along edge of core 30% pyrite	18.3 - 20.0	1.7	Nil	Nil	
6338	Do; Do; Do.- 30% pyrite	20.0 - 23.0	3.0	Nil	Nil	
6339	Green andesite schist with a few barren quartz str	43.0 - 45.5	2.5	Nil	Nil	
6340	Do.	45.5 - 46.7	1.2	Tr	Tr	

SLUDGES

Casing - 5'

0	-	10	Tr	Tr
10	-	20	Nil	Nil
20	-	30	Nil	Nil
30	-	40	Nil	Nil

GEOLOGY

0.0	-	5.0	Casing
5.0	-	16.2	Coarse diorite
16.2	-	23.0	Contorted dark-grey sediment at 0 - 15° to core - heavily pyritized.
23.0	-	32.4	Normal green andesite - fine-grained - slightly schistose at 20 - 30°
32.4	-	43.1	Coarse diorite as above (amphibolite).
43.1	-	46.7	Normal green andesite schist and some quartz.
46.7			END - - hole ran into lake

June, 1945

DIAMOND DRILL LOG
MACBUCK RED LAKE GOLD MINES LTD

DDH No. K-12x

Bearing:

Drilled by Prochuk

Dip : -65°(??)

Location:

Logged by W.P. Corking

No.	Description	Footage	Assay Value		
			Length	Oz/Ton	\$/Ton
6341	Glassy quartz with a little pyrite or marcasite on slips - looks parallel to core; actually only 3.6' core here.	40.1 - 45.2	5.1	0.02	0.70
6342	10" diorite and glassy quartz as above	45.2 - 47.8	2.6	Tr	Tr
6343	Andesite or sediment - a little quartz and some pyrite and pyrrhotite	56.8 - 58.4	1.6	Nil	Nil
6344	Do. A little more quartz and pyrite	58.4 - 60.1	1.7	Nil	Nil
6345	Do. Not much quartz or mineralization	60.1 - 62.4	2.3	Tr	Tr
6346	Do. Including 10 - 12" heavily pyritized and pyrrhotitized sediment	62.4 - 64.9	2.5	0.02	0.70
6347	Green andesite schist	64.9 - 67.3	2.4	Tr	Tr
6348	Andesite schist at 25° to core with a few quartz stringers - 4" highly pyritized	89.9 - 91.6	1.7	Nil	Nil
6349	Andesite schist and some quartz - VLM	102.7 - 104.6	(Nil	Nil	1.9')
6350	Do. Do.	104.6 - 106.9	2.3	Nil	Nil
6351	Do.	106.9 - 109.7	2.8	Nil	Nil
6352	Do.	109.7 - 113.7	4.0	Nil	Nil
6353	Glassy vein quartz with a little dark matter - VLM	121.9 - 123.6	1.7	Tr	Tr

SLUDGES

0	-	10	Tr	Tr
10	-	40	Tr	Tr
Lost sludge to 120 ft.				
120	-	130	Nil	Nil
130	-	140	Nil	Nil

GEOLOGY

0.0	-	6.0	Casing
6.0	-	55.1	Coarse diorite including some glassy quartz.
55.1	-	72.3	Green andesite schist or possibly sediment; at 25° to core. Slightly contorted; including a short 8" section of sediments and pyrite, pyrrhotite at 63'.
72.3	-	88.4	Very coarse amphibolitic diorite.
88.4	-	143.7	Green-bi-chlorite schist - probably andesite - mostly nearly parallel to core.
143.7 - - END OF HOLE			

July, 1945.

DDH No. K-13x

DIAMOND DRILL LOG

MACBUCK RED LAKE GOLD MINES LTD

Drilled by Prochuk

Logged by W.P. Corring

Bearings:

Dip : -45°

Location:

No.	Description	Footage	Length	Assay Oz/Ton	Value \$/Ton
6289	Banded vein quartz -carbonate VLM	34.5 - 36.5	2.0	0.02	0.70
6290	Altered andesite schist	36.5 - 38.2	1.7	Tr	Tr
6291	Altered andesite schist with a little pyrrhotite	43.2 - 44.3	1.1	Tr	Tr
6292	Do. A little quartz and carbonate	44.3 - 46.6	2.3	Tr	Tr
6293	6" green quartz-carbonate - FWM pyrite, pyrrhotite and traces of zinc	73.8 - 74.7	0.9	Tr	Tr
6294	Banded grey schist 0 a little pyrite and pyrrhotite	74.7 - 77.2	2.5	Tr	Tr
6295	Lean Iron Formation with a little translucent green quartz - FWM pyrite and pyrrhotite	85.7 - 88.3	2.6	Tr	Tr
6296	Do.	88.3 - 91.4	3.1	Tr	Tr
6297	Do.	91.4 - 93.2	1.8	Tr	Tr

GEOLOGY

0.0 -	8.0	Casing
8.0 -	52.0	Biotite, chlorite andesite schist @ 35 - 40° to core. Locally a little paraschist.
52.0 -	58.0	Paraschist.
58.0 -	85.7	Banded andesite schist as above - some amygdules.
85.7 -	93.8	Lean Iron Formation - a little pyrite; pyrrhotite.
93.8 -	104.0	Coarse diorite

July, 1945

DDH No. K-14x

Bearing:

DIAMOND DRILL LOG
MACBUCK RED LAKE GOLD MINES LTD

LTD

Drilled by Prochuk

Logged by W.P. Corking

Dip : - 40°

Location:

No.	Description	Footage	Assay Value		
			Length	Oz/Ton	\$/Ton
6739	Fresh gabbro with 2% glassy quartz with a little pyrite	12.2 - 13.9	1.7	Tr	Tr
6740	Gabbro with 2" quartz and a little pyrite	45.1 - 45.7	0.6	Tr	Tr
6741	Heavy pyrite (veinlets) at gabbro contact	55.3 - 56.3	1.0	0.01	0.35
6742	Bi-chlorite schist - FWM - pyrite	58.0 - 60.5	(Tr	Tr	2.5)
6743	Do.	60.5 - 61.8	1.3	0.01	0.35
6744	Do. 8" heavily pyritized	61.8 - 63.1	1.3	0.01	0.35
6745	Mostly vein quartz FWM pyrite; Well refractured. Walls are gabbro	89.0 - 91.4	2.4	0.01	0.35
6746	10" refractured vein quartz - VIM	124.8 - 126.0	1.2	Tr	Tr

GEOLOGY

0.0	-	4.0	Casing
4.0	-	14.5	Coarse intrusive gabbro - few glassy quartz stringers.
14.5	-	18.0	Core ground.
18.0	-	21.5	Coarse gabbro as above.
21.5	-	31.3	Normal chloritic andesite schist - schistosity at 10 - 30° to core.
31.3	-	57.5	Coarse fresh gabbro as above.
57.5	-	72.0	Banded biotite - chlorite schist. Possibly sediment, probably andesite.
72.0	-	94.0	Very coarse biotite gabbro - large feldspars - some vein quartz.
94.0	-	126.0	Biotite-chlorite schist - probably andesite - schistosity at 10 - 30° to core.

126.0

END OF HOLE

MAC BUCK RED LAKE GOLD MINES LTD

<u>Hole No.</u>	<u>Assay Value</u>		<u>Feet</u>	<u>Distance</u>
	<u>Ozs.</u>	<u>Value</u>		
<u>ADDITIONAL SAMPLE</u>				
K-10	Tr	--	1.5	284.2-285.7

MAC BUCK RED LAKE GOLD MINES LIMITED

ADDITIONAL SAMPLES

<u>No.</u>	<u>Oz.</u>	<u>Assay</u>	<u>Feet</u>	<u>Distance</u>
		<u>Assay Value</u>		
1885	.04	\$1.40	2.7	19.0 - 21.7
1886	.01	0.35	3.0	22.0 - 25.0

D.D.H. No. K-7

MAC BUCK RED LAKE GOLD MINES LTD

ADDITIONAL SAMPLES

<u>No.</u>	<u>Assay</u>		<u>Feet</u>	<u>Distance</u>
	<u>Ozs.</u>	<u>Assay Value</u>		
1887	Tr	Tr	2.0	96.0 - 98.0
1888		Tr	2.5	100.2 - 104.7

D.D.H. NO. K-10

MAC BUCK RED LAKE GOLD MINES LIMITED

<u>No.</u>	<u>Assay</u>		<u>Feet</u>	<u>Distance</u>
	<u>Ozs</u>	<u>Assay Value</u>		
1889	.02	.70	4.8	276.0-280.8
1890			1.5	284.2-285.7



K.R.L. 20311

EAST BAY
RED LAKE

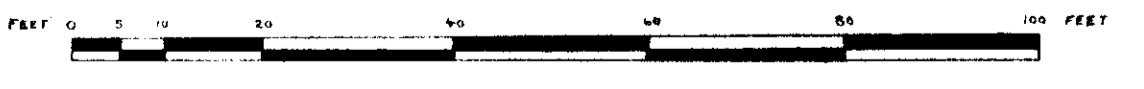
3

MACBUCK RED LAKE GOLD MINES LTD.

GEOLOGICAL MAP OF TRENCHING

CLAIM - K.R.L. 20311

SCALE 1" = 20'



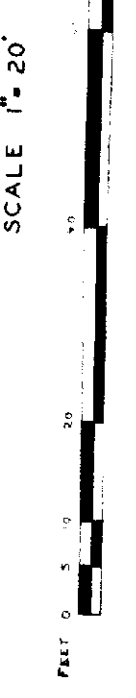
- Red - 1
- Blue - 2
- Green - 3
- Yellow - 4
- Grey - 5
- Orange - 6
- Light Orange - 7
- Brown - 8



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MACBUCK RED LAKE GOLD MINES LTD.

GEOLOGICAL MAP OF TRENCHING
CLAIM - K.R.L. 20311

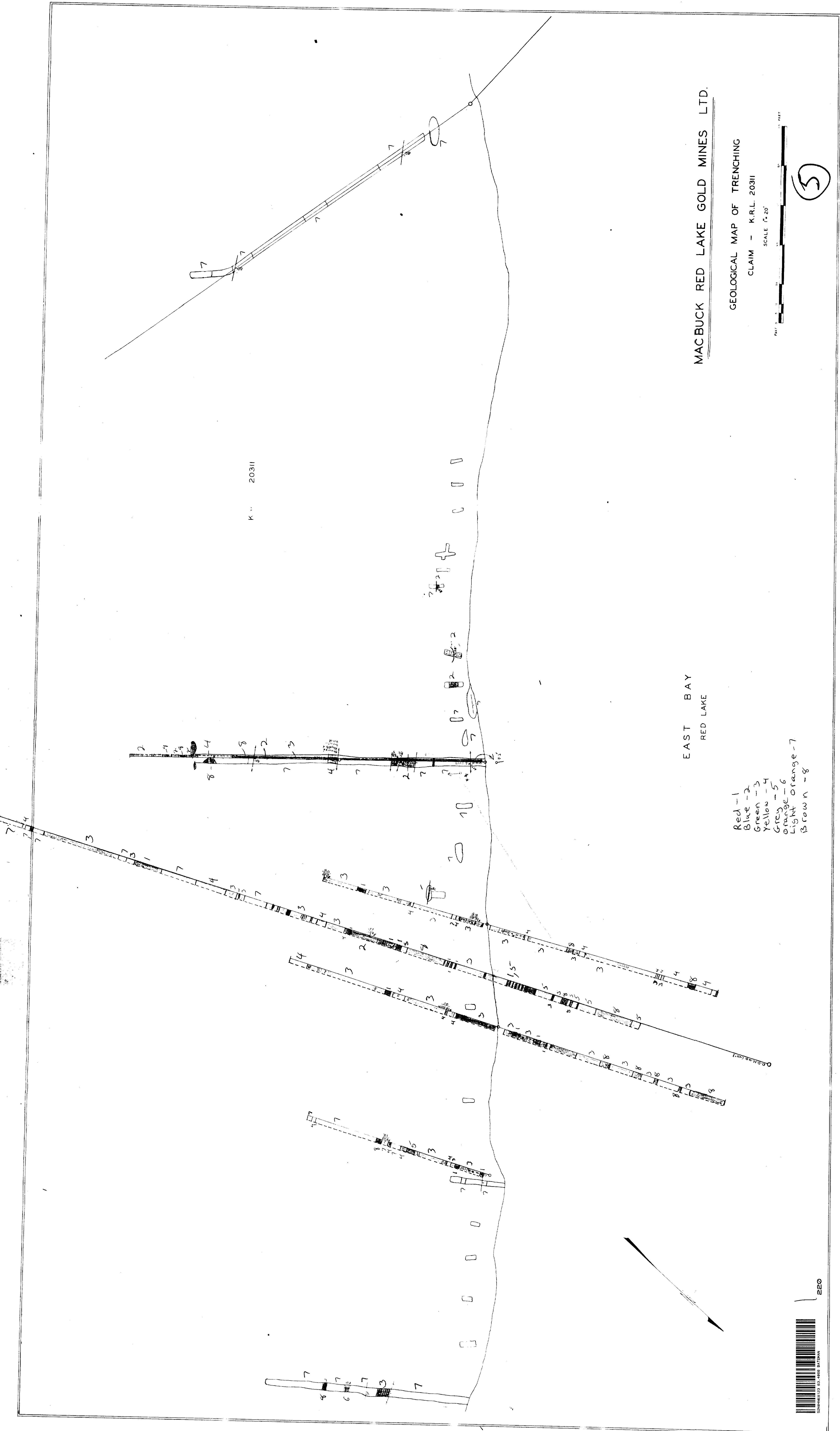


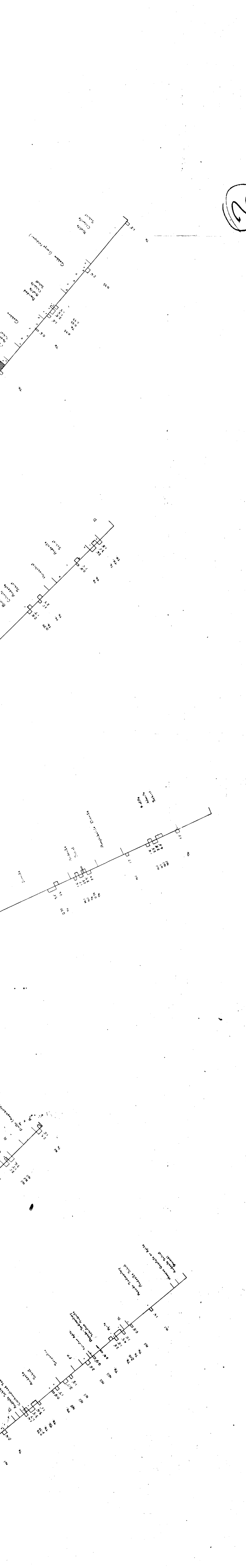
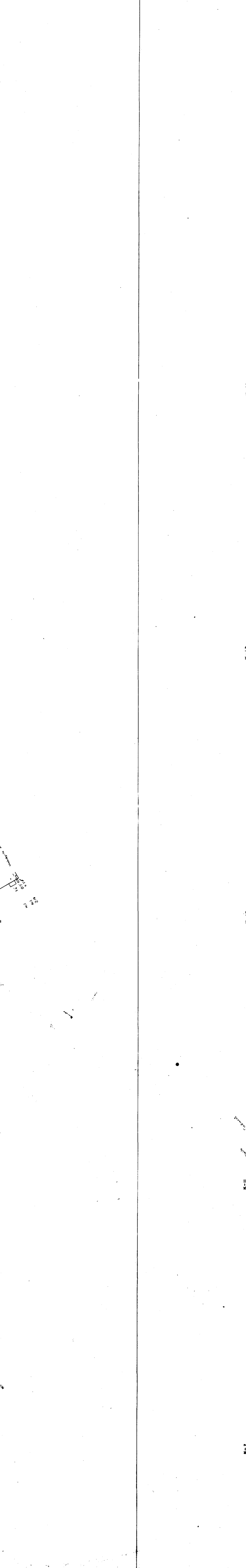
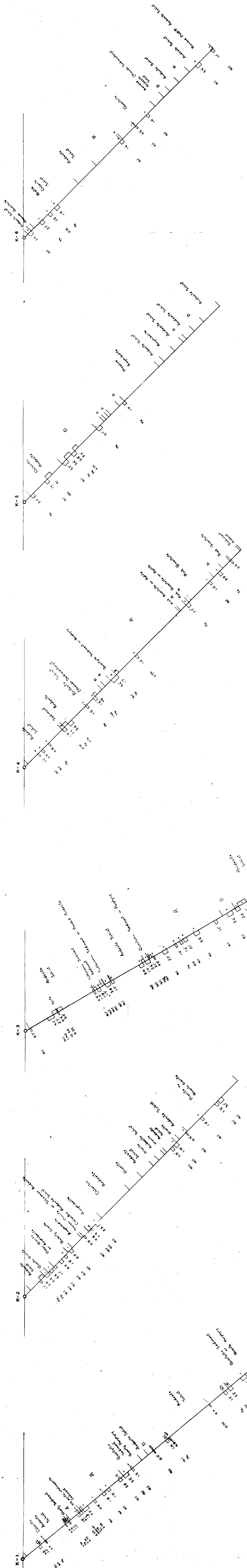
5

EAST BAY
RED LAKE

- Red - 1
- Blue - 2
- Green - 3
- Yellow - 4
- Grey - 5
- Orange - 6
- Light Orange - 7
- Brown - 8

K... 20311





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MACBUCK RED LAKE GOLD MINES LTD.
DIAMOND DRILL HOLE SECTIONS 63-4068

THROUGH
K-1, K-2, K-3, K-4, K-5, K-6, K-7,
K-11, K-12, K-13, K-14.
SCALE 1:200



