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## Preliminary Report on the Matachewan-Kenogami Area

Also Reference to Some Properties East of Kirkland Lake. W. S. Dyer, of the Ontario Department of Mines, Gives Much Interesting Information on Promising New Gold Areas.

The following interesting and valuable preliminary report is made by W. S. Dyer, of the Ontario Dept. of Mines, on the Matachewan-Kenogami gold area and on some properties east of Kirkland Lake. The report is well worth careful perusal at the present time, and also might well be clipped out and preserved for future reference by those specially interested in the area concerned.

### Preliminary Report on the Matagami-Kenogami Area (By W. S. Dyer)

During the summer of 1933 the geology of Powell and Cairo townships in the Matachewan area was studied in detail, and map No. 44a, on a scale of 2,000 feet to one inch, recently issued by the department, is based on the results of this work. Geological field work during the summer just passed consisted of an examination of Baden and Alma townships to the north of Powell and Cairo, respectively, and of a number of townships lying between the Matachewan area and the Kirkland Lake area. These included all of Holmes, Burt, and Eby, and parts of adjacent townships. The geological conditions in these townships are somewhat similar to those in Kirkland Lake and Matachewan, and it was considered that a detailed geological examination would disclose information of use to prospectors. No geological work had been done in this region since that of H. C. Cooke in 1919.

The latter part of the summer was spent in visiting properties east of Kirkland Lake and in mapping the surface geology of the Martin-Bird claims in Hearst township.

The rise in the price of gold has caused unprecedented activity in the areas visited. In Matachewan, in particular, a great many groups are actively developing their claims. Hydro-electric power has been brought into the field, roads are being repaired, and a survey has been completed for proposed new roads from Matachewan to Swastika and from Matachewan to Timmins. One new gold mill, Young-Davidson, went into operation on September 8, and a second, Matatchewan Consolidated, is nearing completion.

faults with a similar strike. Much shearing was found throughout the area with strikes varying from east to northeast, but unlike Kirkland Lake, no faults in this direction were found except of a very minor type.

**Progress in the Matachewan Area**  
Young-Davidson Mine.—The most important mineralized belt in the Matachewan area is that which lies along the south edge of the southern Timiskaming syncline (see map No. 44a). The Young-Davidson ore body is part of a red syenite porphyry intrusion lying along this belt. It is a large low-grade ore body, with dimensions of about 500 feet by 300 feet on surface, and with a grade of about one-tenth of an ounce of gold per ton. During the last year great progress has been made in its development by the Hollinger Consolidated Gold Mines, Limited, by whom it is controlled. A mill has been completed, and operations were begun on September 8. Production is now about 500 tons per day.

**Matachewan Consolidated Mine.**—The ore at the Matachewan Consolidated Mine occurs chiefly as lenses of siliceous schist lying along the mineralized belt described above. After several months of development work, which consisted of drilling and drifting, almost exclusively on the only level, which is at 160 feet, it was decided to erect a mill. Construction work was begun on August 1, and at the end of September such rapid progress had been made that it appeared that operations might be commenced early in November. It is expected that production at first will be at the rate of 100 to 125 tons per day, but the mill has been built so that the rate can be easily doubled when found advisable.

During development about 125,000 tons of medium-grade ore was indicated from surface or from the 160-foot level. Costs are expected to be moderately low, as the ore bodies are quite wide. Little is known about ore conditions below the 160-foot level, but since the gold-bearing porphyry of the Young-Davidson is believed to plunge underneath the Matachewan-Consolidated deposits, there is every reason to believe that the latter will not be shallow. Operations are being conducted by Ventures, Limited.

**Thesaurus, Baden Syndicate, and Central Matachewan Properties.**—At the head of Matachewan lake in Baden township several groups have been active. The Thesaurus mine, inactive since 1924, was pumped out and re-sampled, and some underground work is being done.

The most important vein, No. 6, on the Baden Syndicate ground was drilled, but the small drill used had difficulty penetrating the broken ground near the vein. It is reported that the three completed holes showed widths of about two feet of quartz carrying from 0.40 to 0.65 ounces per ton in gold, and that in one hole the footwall rock averaged 0.30 ounces over four feet. There is thus some evidence that the vein widens at depth.

On the Central Matachewan property immediately north of the Baden Syndicate a break recently discovered was opened up this summer. High values had been found in oxidized material on this break, and at the same time of the writer's visit development had indicated that greater widths would be obtained than on neighbouring properties. Last reports are that moderate values have been obtained for a considerable length.

The veins on all these properties at the head of Matachewan lake appear to be related to a grey porphyritic granite that outcrops in the vicinity. They are found in either Keewatin tuffs or in the granite; they strike north-east and dip approximately vertically.

**French Property under Option to the Hollinger Consolidated Gold Mines, Limited.**—The vein being drilled at the present time by the Hollinger Consolidated Gold Mines, Limited, on claim No. 8,193 in Baden township is similar to the veins on the above properties at the head of Matachewan lake. It is a narrow fissure quartz vein striking northeast and cutting massive tuffs. Good values have been obtained over narrow widths on surface.

**Woman River Syndicate.**—The syndicate holds a large group of claims in the southeastern corner of Baden township. Gold was discovered in May on one of their claims in a 6-inch quartz vein. This vein has not been broken into but extensive surface work is being carried out on the discovery and other claims. The rocks consist of greenstone with several intrusions of syenite and granite. There are some zones of shearing with silicification and pyritization.

**The McNeil Syndicate and Oliver Gold Syndicate Properties in McNeil Township.**—Gold was discovered in McNeil township in 1923, and in this and following years much staking and development, including trenching and shaft and pit sinking took place. The gold is found chiefly in the native state in quartz veins traversing dikes of fine-grained "felsite," of which some are feldspathic and some granitic. The quartz veins, up to 2 inches in width, strike transversely to the dikes and dip flatly to the east. The dikes themselves strike as a rule about east-northeast. Mineralization is chiefly coarse cubic pyrite. Five important dikes have been found in a width of 6 claims (from north to south); four of them on claims held by the McNeil Syndicate, known as the Jowsy-Segsworth group, and the fifth on the claims of the Oliver Gold Syndicate. Some of these dikes have been followed along their strike over several claims. Visible gold and high assays have been obtained, but values are erratic and it is thought that the only way to obtain any accurate idea of average values is to bulk-sample the most likely-looking places. Such a programme is now reported to be under way.

**Other Groups Active in Matachewan.**—Among the many other active groups in Matachewan the following may be mentioned:—  
**The Matachewan Pioneer Syndicate** are developing a group of claims on the high way one-half mile east of the Matachewan townsite. Good values were

## BUCKLEY'S MIXTURE BANISHED COLD, BACK AT WORK NEXT DAY

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**Bloom Lake Consolidated Mines, Limited,** have several groups of claims in Matachewan. They are at present carrying on drilling on the group situated on the south side of Otisse lake and immediately north of the western claims of the Matachewan Consolidated Gold Mines.

East of the above group the O'Connell Gold Mines have been active in drilling and shaft-sinking. Rocks on the claims on which work has been done are Timiskaming sediments with dikes of red syenite porphyry.

On claim 9,929, Yarrow township, George Christie has uncovered an interesting zone of carbonate schist with lenses of siliceous schist and stringers of quartz. Values in gold have been reported by Mr. Christie, and the property is now held under option by New York interests represented by Nelson Bradley.

A company known as the Margo Gold Mines has been recently organized by C. M. Young. They hold a large group of claims located chiefly in the southwestern part of the large stock of syenite porphyry in Cairo township. Work so far has consisted of trenching and stripping.

**Prospects of Finding Gold in the Townships between Matachewan and Kirkland Lake.**

The Keewatin greenstones and the Timiskaming sediments extend eastward from Matachewan through the townships of Holmes, Flaville, Burt and Eby to Kirkland Lake. The greenstones form a broad syncline with the position of the axis marked by narrow bands and remnants of the Timiskaming. Numerous stocks and dikes of igneous rocks of varied type, including red syenite porphyry, pink syenite, dark-grey diorite, etc., cut through the greenstones in various places, and coarse-grained granites are found on the flanks of the syncline. Such an assemblage of rocks constitutes in general good prospecting territory, especially when the territory lies between such important gold camps as Kirkland and Matachewan.

On closer inspection, however, some parts of the territory appear much more favourable than others. For instance, Burt township and the eastern half of Holmes are overlain by the Cobalt series and by the broad sand plain that flanks the Englehart river (south branch of the Blanche river), and prospecting is difficult if not impossible. There are some stretches of greenstone on the north and south boundaries of Burt, but this greenstone is largely granitized and is probably only a shallow covering over granite.

In the southwestern part of Holmes township and extending southward into Flaville there is an area of roughly 12 square miles of greenstone intruded by syenite and syenite porphyry and containing remnants of Timiskaming conglomerate in which prospecting would be worth while. Some attention has already been paid to the area and some interesting finds have been made. One is on the Brookbank claims in Holmes township, where in a 12-foot dike of brownish syenite porphyry high values in gold occur. The Agaura Exploration Company optioned this property last year and did extensive surface sampling but found values erratic. Another is a well mineralized quartz vein on the Matt Allen claims in Flaville township. This vein has been examined by several well-known mining companies, but so far values have been found to be too low to be commercial. These finds, however, prove the existence of gold in the area; and further intensive prospecting, especially in the vicinity of the syenite porphyry dikes, would appear to be warranted. A drawback to prospecting in this section has been the large amount of land held as veteran's patents. Access to Holmes township is by a trail leading northwest from mile-age 20 on the Elk Lake-Matachewan highway.

Alma township to the north of Cairo and west of Holmes is very largely underlain by greenstones and tuffs. Some prospecting has been done in the township, particularly along the northern contact of the red syenite porphyry stock and the greenstone where there are in places considerable widths of carbonate schist.

Geological field work this summer in Eby township revealed the presence of Timiskaming sediments as a band one-half mile wide extending along the south side of Kenogami lake and very nearly reaching the western boundary of the township. This band is bordered on the south by carbonate schist, and there are other bands of carbonate schist in the greenstones to the south. Porphyry dikes are present, particularly south east of Kenogami lake.

Some desultory prospecting is being done in the township but it deserves

more thorough work. Special attention should be paid to the sediments and to the greenstones to the south. Quite large tracts of greenstones are encased only by a thin covering of moss, which could be stripped with little labour. The Timiskaming sediments and the greenstones in the southern half of the township are rather heavily drift-covered.

The Lucky-Kirkland mine (formerly the Baldwin), from which some ore is from time to time taken on a lease basis by S. L. Macdonald, is located near the south edge of the Timiskaming sediments near the northeastern corner of the township. In Burt township just west of the Eby boundary, F. Graff has been working for several years on shear zones and quartz veins in greenstone. Some low values are reported by him.

### Geology of the Martin-Bird Property in Hearst Township

The rocks on the Martin-Bird property are largely fine-grained, finely bedded beds, which were considered to be sediments. For the most part they stand vertically and strike N. 20° W. They are bounded on the west by Keewatin greenstones and to the east grade into thicker beds of quartzite and conglomerate. Several intrusions, presumably of Algonquin age, were found on the property, the most common type being a grey porphyry with several phases which grade into one another.

The most striking feature geologically on the property is a strong drag fold, the axis of which strikes N. 60° E. The axis is very marked. For a length of a mile along its strike and for widths across the strike of about 200 feet, the beds strike uniformly about N. 60° E. In contrast to the persistent regional strike of N. 20° W. Along the axis the beds are highly sheared and altered with the strike of schistosity paralleling that of the beds. There is some evidence that instead of being a simple drag fold the structure is a drag along a fault. The movement on the drag fold has shifted the northwest side to the northeast.

In the shear zone there are several quartz veins, lying for the most part parallel to the strike of the schistosity. These veins are quite commonly mineralized, chiefly with pyrite, but coarse and fine, and usually have selvages of calcite. The schist between the veins is also mineralized with pyrite, and it has been shown that the values in the walls are at least as high as in the veins.

Gold values have been found at different points along the sheared zone. From development work done so far it would appear that the values are low but extend over considerable widths. There are, however, scattered occurrences of visible gold, but little work has yet been done at these places. There is little doubt that the pronounced structure outlined above has had a direct bearing on the segregation of the ore.

A great deal of trenching has been done, and a shaft has been sunk to 125 feet on the largest ore body indicated by trenching. Crosscutting is now being done, and good values have been reported as the work has proceeded.

Further geological work is required to determine the regional structure of the sediments and to extend it possible length of the structure. It is conceivable also that other similar structures might be located. The property is now under option to the McIntyre Porcupine Mines, Limited.

### Notes on Some Properties East of Kirkland Lake

A few weeks were spent visiting properties east of Kirkland Lake for the purpose of witnessing the amount of development work now being done and for determining the status of geological and structural knowledge of the area. It is sufficient in this preliminary report to record some notes on progress at the more important properties.

At the Moffat-Hall approximately 50 tons of ore is being mined per day under lease arrangement between the Moffat-Hall interests and H. Jardine, who is in charge of operations. This ore is being treated at the new Bidgood-Kirkland mill about one-half mile to the north, where it is hauled on motor trucks. Considerable success is reported in following the ore shoots on the old levels, and it is expected that profits will be used to carry on fresh development and exploration work.

No ore is being mined at the present time at the Bidgood-Kirkland. The mill is kept busy handling Moffat-Hall ore. No. 1 shaft is being allowed to fill with water, but No. 2 shaft and the three development levels are being kept pumped out. Development work at present consists of a long exploratory crosscut south of the shaft on the bottom (500-foot) level, and diamond drilling to the west of the west end of the 125-foot level to intersect a vein from which good values were obtained on surface.

At the Kirkland Gold Belt property recent work has included the sinking of the shaft to 750 feet and the opening up of new levels at 625 and 750 feet. Considerable success is reported in blocking out ore, and the construction of a mill is contemplated.

A crew of men are working at the Lakeside Kirkland Gold Mines (formerly Queen Level). Work includes a crosscut about 250 feet long to the northwest of the southwest end of the old drift at 200 feet. Exploratory drilling is being done from the end of the crosscut.

At the Goodfish property in Morrisette township No. 1 shaft on the Costello vein is being pumped out to the 300-foot level with the object of re-sampling the more likely looking places and doing further exploratory work. At No. 2 shaft drifting is proceeding eastward on the 200-foot level.

A small amount of work is being done at a few other properties. At the Lebel Lode a crew of 6 men are sinking an inclined test-shaft along a vein from which good values were reported. Drilling is being done on the Conroyal property on claim L.2,296, and some surface work is still being carried on by a crew of 5 men on the Glenora claims.

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### Report of the Dome School for October

Standing of the Pupils in the Various Classes at the Dome School for the Month of October, 1934.

The following is the honour roll of the Dome School for the month of October, 1934:—

Principal—Marcella J. Lynch, principal—Vieno Lillhoeg, Ralph Michel, Helen Munro, Laura Millions, Walter Baker, Marian Jordan, Garth White, Lloyd Doran, Robert Chevier, Teddy Rayner, Joe Slobodian, Robert Rickward, John Shumilak.  
Junior Fourth—Kathleen Connelly, Margaret Munro, Billy Murphy, Jean Stringer, Elsie Parsons, Billie Richardson, Margaret Hegedus, Robert Millions, Louise Kellow, George Vary, Donald Lightbody, Doris McGinn, Tony Procopio, Kenneth Thomas, Jimmie Procopio, Kenneth Harvey.

Room 3—C. A. Rath, teacher—Sr. III—Viola Lalonde, June Countryman, Leontina Didone, Grace Pirie, James Curtis, Fernleigh Uren, Bobby Doran, Violet Hedges, Margaret Burton, Elaine Knutsen, Billy Honer, Clarice Curtis, Ronnie Moyle, Stewart McGinn, Ruth Conod, Kertie Lillhoeg.

Jr. III—Emely Klimo, Shirley Burke, Joyce Eames, Mike Baker, Elsa McDonnell, Dorothy Andrews, Clifford Henry, Maureen Thomas, Gino Campagnola, Evelyn Booker, Francis Harvey, Edith White, Raulo Lillhoeg, Walter Lang, Mildred Rickward, Robert Richmond, Walter Rewegan, Edna Tripp, Nick Rewegan, Grace Richmond, Carson Chevier.

Room 2—A. M. Pace, teacher—Jr. II—John Klimo, Jimmy Jordan, Eleanor Burke, Warner Burritt, Edith Uren, Benny Curtis, Patricia Masteron, Jean Moorehouse, Florence Connelly, Car-

mela Didone, Silvanus Chevier, Billy Booker, Laverne Stroud, Redvers Conod, Jackie Hocking, Douglas Leterman, Lawrence McGinn, Jean Munro, Stewart Pirie, Clarence Chevier. Absent—John Rayner, Barry Brooks, Gladys Kelso.

Sr. I—Lois Countryman, Elwyn Tripp, Aldo Campagnola, George Costain, Evelyn Jay, Catherine Morrison, Allan Hogg. Absent—Mary Richmond.

Jr. I—Susan Klimo, Victor Tuite, Lynn Beard, John Izatt, Germaine Raymond, Edith Visentin, Irene Libby, Mildred Barnes, Raymond Williams, Delora Booker, Billy Chevier, Lorene Knutsen, Mildred Mitchell, Harold Henry, Horace Harvey, Jack McGinn, Primary Room—V. Morris, teacher—Sr. Primer—Elena Cundari, Billy Hocking, Marion Mitchell, Jackie Moorehouse, Minnie Zabiak, Jean Williams, Beulah Lang, Louis Campagnola, Jackie Jay, Doris Kellow, Shirley Knutsen, Mary Countryman, Thora Webb, Ada Curtis, Allen Webb (absent).

Jr. Primer—Joan Conod, Marjorie Jenks, Marion Conod, Donald Hocking, Keith Stroud, Teresa Procopio, Joe Mitchell, Janet Richmond, Charles Blair, George Izatt.  
Primer A—Barbara Rayner, Helen Andsten, Jimmie McDonnell, Doreen Hocking, Pauline Lively, Mary Leterman, Lorna Henry, Richard Barnes, Tony Tasan, Mona Richardson, Jackie Phillips, Billy Longworth, Gerald Kjellstrom, Kathleen Rickward, Dorothy Mitchell, Pangrazio Piva, Douglas McInnis, Lily Bell Kellow, Esther Collins (absent).

Barrie Examiner:—The Cowichan Leader of Duncan, B.C., reports that province owing over 181 millions while the municipalities within its borders have liabilities of 142 millions, the two making a total of 323 millions, truly an enormous load of debt for 704,000 people to carry.

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