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ONTARIO DEPARTMENT OF MINES

Mineral Resources Circular No. 7

Molybdenum Deposits of Ontario

By F. J. JOHNSTON

1968

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Molybdenum Deposits of Ontario

Ву

F. J. Johnston

ABSTRACT

This mineral inventory briefly describes or lists 308 molybdenum occurrences in Ontario. There has been only sporadic production from any of the properties and this was mainly during the First World War from hand-cobbing operations in eastern Ontario.

MOLYBDENUM DEPOSITS OF ONTARIO

By

F. J. Johnston¹

Introduction

There are more than 300 reported molybdenum occurrences in Ontario but there are no mines presently producing the metal either as a by-product or as the principal metallic constituent. Practically all of Ontario's production was during World War I and came from eastern Ontario, mostly from hand-cobbing operations. Small shipments have been made since that time particularly prior to and during World War II. The last molybdenum shipments were in 1964 from Pax International Mines Limited. Production statistics are shown in Table 1.

Properties of Molybdenite: Molybdenite (MoS2) is the most common mineral of molybdenum and is the only one of economic significance found in Ontario. Molybdenite physically resembles graphite which shares its softness and greasy feel but may be distinguished from it in a number of ways.

Molybdenite is soluble in nitric acid and lead-grey in colour while graphite is grey-black. Molybdenite gives a bluish-grey trace on paper and a greenish-grey streak on porcelain while graphite gives a grey-black streak on

¹Geologist, Ontario Department of Mines, Toronto. Manuscript received by the Director, Geological Branch, 23 Jan. 1968.

porcelain. Under the oxidizing flame of the blowpipe molybdenite gives off sulphur fumes on charcoal and colourful coatings surround the assay. A violet colour is commonly seen between the divided cleavage flakes of molybdenite.

Table 1. Ontario Molybdenum Production*

Year	Ore (tons)	Concentrates (1bs.)	Value (\$)
1902	3½		400
1903	85		1,275
1915	192		12,859
1915		1,068	1,240
1916		24,562	26,393
1917		77,517	108,501
1918		47,517	59,067
1931		1,222	280
1937		16,500	8,047
1938		13,000	4,500
1939		482	216
1942		423	150
1944		2,815	1,082
1964		11,393	19,026

^{*} Ontario Dept. of Mines, statistical files.

<u>Uses</u>: Molybdenum finds its principal use as an alloying element in iron and steel. The "low-molybdenum" steels so-called contain less than 1 percent and are used extensively in the automotive industry and in the manufacture of farm implements and railway forgings and bolts. The "high-molybdenum" steels contain more than 1 percent and are much used for permanent magnets, rustless steels, dyes, and high speed tools. The greater strength of molybdenum steels as

compared with ordinary steel reduces weight materially.

Molybdenum is also used in the manufacture of lubricants, fertilizers, dyes and lithographic inks and as a catalyst in the petroleum industry.

Types of Deposits: Molybdenum is a common accessory mineral in certain felsic igneous rocks including granitic rocks, pegmatites and aplites. It is usually of late origin being connected with quartz veinlets and sericitization. In pegmatites the molybdenite flakes may be large and well crystallized but where it occurs disseminated in the body of the igneous rock as in some of the porphyry copper-molybdenum deposits it may be very fine-grained. Radioactive pegmatites commonly contain minor amounts of molybdenite.

Molybdenite is also common to many veins that contain gold, silver, scheelite, wolframite, topaz and fluorite.

Contact metasomatic deposits containing molybdenite are found in eastern Ontario and generally lie at the contact of granitic rocks or pegmatite with crystalline limestone in a zone of metamorphic pyroxenite. Pyrite and pyrrhotite usually accompany the molybdenite in these deposits.

Small copper-molybdenum deposits that in part resemble the large tonnage porphyry copper-molybdenum deposits of western Canada and the United States are represented by the Jogran Mines Ltd. property in the District of Algoma and the Beidleman Bay property of Steep Rock Iron Mines Ltd. in

the District of Kenora.

Examples of breccia or shatter zones that have been cemented by quartz and/or quartz-feldspar veins carrying molybdenum and copper mineralization are the Tribag Mining Company Ltd. property and the Net Lake property in Strathy township.

Sources of Information: The bulk of the material for this compilation was taken from a large number of publications of the Ontario Department of Mines and the Geological Survey of Canada. The principal publications providing basic background information are those of Walker (1911), Parsons (1917), Eardley-Wilmot (1925), Satterly (1942; 1943 and 1944), Thomson (1943) and Vokes (1963). The last publication is the most complete and informative publication on molybdenum deposits of Canada and where more detailed descriptions of the major deposits in Ontario are required this work should be consulted. The technical and commercial aspects of molybdenum mining, refining and uses has been dealt with in a report by Schneider (1963). Assessment work files at the various resident geologists' offices as well as information gathered from various companies, the Canadian Mines Handbook, Northern Miner, and Financial Post Survey of Mines were used to up-date the information gathered from the above sources.

The Mineral Resources Division of the Department of Energy, Mines and Resources provided the writer with files on

various molybdenum occurrences and these are listed in the references as M.R.D. files.

Maps produced by the Algoma Central and Hudson Bay
Railway Company as part of their mineral evaluation program
initiated in 1960 have been used to locate a number of
molybdenum occurrences in the District of Algoma. These maps
have been designated as A.C.R. maps in the references.

Not all the references have been given for the individual properties but those believed to be the latest and the most pertinent are included.

Location: The occurrences are arranged by territorial districts or counties (see Figure 1) and then by townships. Where the township is subdivided they are listed in ascending order of concession and lot numbers and where undivided they are listed alphabetically. In the Districts of Thunder Bay and Kenora where there are large unsurveyed areas the deposits are located and listed by the National Topographic System (N.T.S.) and by latitude and longitude where convenient. Where bracketed names appear after the location in the tabulations or following the property name these refer to local names, topographic features, or formerly used names that were used to describe the deposits.

Acknowledgments: The writer would like to thank various company officials and resident geologists of the Ontario Department of Mines and Mr. K.R. Clemiss, mining recorder,



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Dr. J. Satterly provided many helpful suggestions for which the writer is grateful.

The able assistance and co-operation of Mr. L. Jensen who assisted the writer and did much of the compiling for this report is gratefully acknowledged.



DESCRIPTION OF DEPOSITS

DISTRICT OF ALGOMA

GAUDETTE TOWNSHIP

Crichton and Rivers

Location: 5 miles northeast of Searchmont, Gaudette

township, District of Algoma. Claim Nos. S.S.M.

12997 to 13003.

Minerals

Present: Molybdenite.

Development: In 1943, 1,500 feet of open cut, 8 feet deep

and 12 drill holes totalling 2,000 feet. 100 tons of ore was produced and 42 tons shipped for a total value of \$1,082. Trenching carried out in 1965 by Michigan Mining and Milling Ltd. The property had been prospected for uranium in

1960 by Alur Mines Ltd.

Geology: Molybdenite mineralization occurs in flat-lying

pegmatite in biotite gneiss.

References: 0.D.M., resident geologist, Sault Ste. Marie,

files.

O.D.M., Vol. 53, 1944, pt. 1, p. 182.

O.D.M., Map 2108.

Gratton Mine

Location: $1\frac{1}{2}$ miles from Searchmont on the Wabos road,

Gaudette township, District of Algoma.

Minerals

Present: Molybdenite, chalcopyrite.

Development: Pits blasted in southwest face of a large ridge

northeast of Searchmont.

Geology: Quartz vein or lens occurs adjacent to a narrow

granitic zone in mafic hornblende gneiss. Strike

of the vein is N25°W and the dip is 35°E.

Chalcopyrite and molybdenite-bearing quartz occurs adjacent to trenches but little vein material is visible in outcrops, having been mainly excavated from pits. The vein is cut off by a mafic intrusive.

References: 0.D.M., resident geologist, Sault Ste. Marie,

files.

O.D.M., Map No. 2108.

Meyer-Idziak

Location: 1-1/3 miles northeast of Searchmont, Gaudette

township, District of Algoma. Claim S.S.M.

59959.

Minerals

Present: Molybdenite, magnetite, chalcopyrite, pyrite.

Development: The property was mapped geologically and 6

drill holes totalling 515 feet were bored in

1961.

Geology: Sparse molybdenite occurs in pegmatitic zones

in granitic gneisses.

References: O.D.M., resident geologist, Sault Ste. Marie,

files.

O.D.M., Map No. 2108.

Selby-Kutchie-Powell

Location: SW_2^1 of N_2^1 , lot 2, concession 2, Gaudette

township, District of Algoma, 4 miles northeast

of Searchmont on the Goulais River road.

Development: In 1935 trenching and geological mapping.

Examined in 1966 by Algoma Central Railway.

Geology: Series of mineralized flat-lying quartz veins in

quartzite. Mineralization is localized near

the margins of the quartz vein.

References: 0.D.M., resident geologist, Sault Ste. Marie,

files.

O.D.M., Map No. 2108.

RYAN TOWNSHIP

Jogran Mines Ltd.

Location: Ryan township, District of Algoma. Claims S.S.M.

59846, 62917, 62918, 65883, 65884, 62886, 62888

to 62891, 64225, 66421 to 66430.

Minerals

Present: Chalcopyrite, molybdenite, chalcocite, pyrite.

Development: The property was staked in 1962 as an iron

prospect by Messrs. Haugeneder, Kell and Richards

with some trenching being done. In 1963,

McKinney Gold Mines Ltd. optioned the 21 claims based on copper showings in the greenstone. In

1964, Jogran Mines Ltd. was formed as a

subsidiary of McKinney Gold Mines and drilled 9 holes (5200 feet) in a quartz-feldspar porphyry containing molybdenite disseminations. Phelps-Dodge Corp. of Canada Ltd. optioned the 21 claims

of Jogran Mines and acquired 67 additional

bordering claims. They completed an I.P. survey and 1 drill hole on the molybdenite occurrence. Other drilling with a total of 10,333 feet was completed in other parts of the property on copper occurrences. Option was terminated in

January, 1967.

Geology: Disseminated chalcopyrite, pyrite, molybdenite

and rare chalcocite occur in an altered quartzfeldspar porphyry that intrudes mafic volcanics.

Some chalcopyrite and pyrite also occurs in

narrow fracture zones.

Dimensions

and Grade: Grades of 0.19 percent copper and 0.053 percent

molybdenite across a width of 600 feet and along a strike of 400 feet have been reported.

(Northern Miner, June 9, 1966, p. 13).

References: Northern Miner, June 9, 1966, February 23, 1967,

May 4, 1967.

Giblin (1966, p. 78).

O.D.M., resident geologist, Sault Ste. Marie,

files.

TOWNSHIP 23, RANGE 10

Golf Lake

Location: Northwest corner of Township 23, Range 10,

District of Algoma. Claims S.S.M. 61659 to

61662.

Minerals

Present: Sphalerite, chalcopyrite, molybdenite, bornite,

pyrite.

Development: 5 diamond drill holes totalling 1676 feet

drilled by D.R. Martin in 1955. In 1962 6

diamond drill holes totalling 1675 feet drilled

by Marboy Mines Ltd.

Geology: Fine-grained disseminated mineralization occurs

in east-trending shear zone in sediments and volcanics. Shear zone is reported to be about

400 feet wide and 2 miles long.

References: O.D.M., resident geologist, Sault Ste. Marie,

files. O.D.M., Map 2108.

Marboy Mines Ltd.

Location: Northwest corner of Township 23, Range 10,

District of Algoma. 1 mile east of Goulais

River Road, Claim S.S.M. 61740.

Minerals

Present: Molybdenite, pyrite, pyrrhotite.

Development: In 1961 surface exploration and geophysical

survey (Canadian Mines Handbook 1962, p. 154).

In 1962 2 diamond drill holes totalling 421 feet by Marboy Mines Ltd.

Geology:

Disseminated molybdenite mineralization occurs in east-trending shear zone in sediments. Shear zone is reported to be 400 feet wide and 2 miles long.

References:

O.D.M., Map 2108.
O.D.M., resident geologist, Sault Ste. Marie, files.

TOWNSHIPS 27 AND 28, RANGE 13

Tribag Mining Co. Ltd.

Location:

Townships 27 and 28, Range 13, District of Algoma; Lat. 47°11', Long. 84°32'.

Minerals

Present:

Chalcopyrite, molybdenite, sphalerite, galena, scheelite, pyrite and silver.

Development:

Discovered in 1954 by Aime Breton of Wawa. In 1955, Sylvanite Gold Mines Ltd. drilled 8,331 feet in 21 holes. In 1961, 3 holes totalling 1,520 feet were diamond drilled. Tribag Mining Company Ltd. acquired the property in 1962 and to the end of January, 1966, carried out 160,000 feet of drilling and a shaft has been sunk to 1,247 feet establishing 7 levels. More than 14,000 feet of lateral development was done. Control and management were taken over by Teck Mining Corp. in 1966. In May, 1967, the property became a copper producer. No molybdenite is presently recovered.

Geology:

The Tribag property straddles the volcanicgranite contact along which 5 known breccia zones occur. The breccia zones are of economic importance, for it is within them that the copper deposits of the property are found. Each of the breccia zones is associated with 1 or more lineaments which, in most cases, are known to represent faults. The largest breccia zone, in surface dimensions, is known as the East breccia zone, and measures 2,000 feet by 1,000 feet. Located 1½ miles to the southwest is the West breccia zone, which is about 2,000 feet long by 700 feet wide at surface. Limited diamond-drilling in these zones, and a short adit in the East breccia zone, have disclosed economically interesting values in copper and molybdenum.

The principal copper deposit occurs in the Breton breccia zone, located $\frac{1}{2}$ mile north of the West zone.

Ore reserves in March, 1967 consisted of 600,000 tons grading 2.2 percent copper. (Northern Miner, March 30, 1967).

References:

Blecha (1965 p. 321-326).

Giblin (1966 p. 4-7).

O.D.M. Map 2018.

O.D.M., resident geologist, Sault Ste. Marie,

files.

TOWNSHIP 28, RANGE 13

Inglis

Location: Township 28, Range 13, District of Algoma; Lat.

47°06', Long. 84°29'. Claim S.S.M. 62207.

Minerals

Present: Molybdenite, chalcopyrite, pyrite, pyrrhotite.

Development: 14 drill holes totalling 661 feet in 1956.

Originally owned by M.O. Inglis, currently

owned by Tribag Mining Co. Ltd.

Geology: Molybdenite in quartz stringers in mafic gabbro

and diorite.

References: 0.D.M., Map 2108.

O.D.M., resident geologist, Sault Ste. Marie,

TOWNSHIP 28, RANGE 23

Peters-Quilty

Location: Township 28, Range 23, District of Algoma.

Claim S.S.M. 12680.

Minerals

Present: Molybdenite.

Development: 1936-39; test pits and trenches.

1939; sampled by Falconbridge Mines Ltd.

1943; trenching and sampling by Deep Lake Gold

Mines Ltd.

1958; trenching and 3 drill holes totalling 2000

feet by Billiton Company Ltd. of Holland. 1959; one diamond drill hole of 383 feet. 1964; mapped by Algoma Central Railway.

The property is owned (1967) by Pax International

Mines Ltd.

Geology: The property lies along the western margin of a

large granite batholith. Molybdenite occurs in

narrow, irregular quartz veins in a zone

reported to be 20 to 100 feet in width, extending for 2,000 feet. The mineralization is said to occur as disseminations in the quartz along the walls of the veins, and to some extent in the

enclosing granite.

Dimensions

and Grade: In 1939, 52 channel samples by Falconbridge

averaged 0.192 percent MoS2.

In 1943, 4 bulk samples assayed in Mines Branch in Ottawa returned 2.65, 4.42, 1.96 and 7.37

percent MoS2.

In 1959 a 40-foot section of drill core averaged

0.02 percent MoS₂ and a 10-foot section 0.09

percent MoS2.

References: Vokes (1963, p. 82).

O.D.M., resident geologist, Sault Ste. Marie,

TOWNSHIP 28, RANGE 24

Regnery Metals

Location: Northwest shore of Hawk Lake, 2.8 miles from

Hawk Junction, Township 28, Range 24, District

of Algoma; Lat. 480021, Long. 840351.

Minerals

Present: Molybdenite, chalcopyrite, pyrite, (beryllium

has been reported).

Development: The property was operated from 1937 to 1940 by

Walter Regnery and partners under the name of Regnery Metals. Development included a 45-degree shaft to 243 feet with levels at incline depths of 92 feet and 230 feet. 7 holes were diamond drilled from surface totalling 1821 feet and 15 holes totalling 1487 feet were drilled from underground. 2660 feet of underground development was completed.

International Ranwick Ltd. took over the property

in 1958 and dewatered the shaft and resampled

the underground workings.

Geology: Rocks in the area consist of a granite batholith

cut by numerous mafic dikes consisting of

diabase, lamprophyre and diorite. A set of north-south dikes is spaced 40 to 100 feet apart and the granite between them is highly fractured and locally filled with quartz and calcite stringers that carry molybdenite. Fine-grained molybdenite also forms thin seams in the fractured granite.

Dimensions

and Grade: On the first level a weighted average for 410

feet of drifting at a width of 3.8 feet was 0.11 percent MoS₂. Tonnage outlined if the veins extended 100 feet vertically was 13,000 tons. (Report of International Ranwick Ltd., 0.D.M., files, Sault Ste. Marie). Estimates of 113,000 tons grading 1.25 percent molybdenum were made

by previous operators.

References: Eardley-Wilmot (1938, p. 17).

Vokes (1963, p. 81).

O.D.M., resident geologist, Sault Ste. Marie,

TOWNSHIP 31, RANGE 24

Molybdenite Lake

Location: Southeast side of Molybdenite Lake, Township

31, Range 24, District of Algoma; Lat. 480041,

Long. 840581.

Minerals

Present: Molybdenite, pyrite.

Development: Some development was done on the property prior

to 1905. In 1939, trenching and 4 drill holes totalling 600 feet were completed by Superior Molybdenum Company Ltd. In 1958, the property was examined by International Ranwick Ltd. Geological and magnetometer surveys were completed in 1964 by D.P. Singh of Sault Ste. Marie. International Nickel drilled 1,444 feet

on claims S.S.M. 64362 and 64363, in 1965.

Geology: Quartz-rich granite intrudes metavolcanics on

the property. A zone of quartz veins trending northwest fill fractures in the granite. The zone is about 35-50 feet wide and about 250 feet long. Molybdenite occurs in the form of fine flakes along the contacts of the veins and extend a few inches into the granite. Faulting

and fracturing in the area may have been the controlling factor in locallizing the mineralization.

References: Vokes (1963, p. 81), Parsons (1917, p. 305).

O.D.M., resident geologist, Sault Ste. Marie,

files.

TOWNSHIP 32, RANGE 23

Michipicoten Tungsten

Location: Township 32, Range 23, District of Algoma; Lat.

47059', Long. 85012'.

Minerals

Present: Scheelite, molybdenite, pyrite.

Development: Geological mapping, 52 drill holes totalling

2242 feet and a large amount of trenching were done in 1952 at which time the property belonged

to Louis Moyd of Bancroft, Ontario.

Geology:

Granitic rocks are hosts to quartz-scheelite

veins containing molybdenite.

References:

O.D.M., resident geologist, Sault Ste. Marie,

DISTRICT OF ALGOMA

Miscellaneous Occurrences

Location	References	<u>Remarks</u>
Ermine twp., Kabinakagami Lake,	Maynard (1929, p. 125)	3-inch pegmatite dikelet in schist
One mile north of mileage 96½ on C.N.R. west from Foleyet	Maynard (1929, p. 125)	Pegmatite dike in schist
<pre>2½ miles south of mileage 102 on C.N.R. west from Foleyet</pre>	Maynard (1929, p. 125)	Pegmatite dike in schist
Hawkins twp., near Langdon on Algoma Central Railway	Maynard (1929, p. 125)	Pegmatite dike
Havilland twp., Lat. 46°51' Long. 84°28'	Logan (1863, p. 700)	Quartz veins in mafic gneiss and schist
Twp. 25 R. 18, claim S.S.M. 75337	A.C.R. Black Spruce - Kinniwabi Lakes Map	
Twp. 25 R. 21, Lat. 47 ^o 43' Long. 84 ^o 14'	O.D.M. resdient geologist, Sault Ste. Marie, files	Chalcopyrite and molybdenite in sheared greenstone
Twp. 26 R. 15, Big Pike Lake	A.C.R. Batchewana - Hubert Map	Quartz vein
Twp. 26 R. 20, Lat. 47°42' Long. 84°16'	A.C.R. Black Spruce - Kinniwabi Lakes Map	Quartz vein in granitic gneiss
Twp. 27 R. 23, Shekwamkwa River	A.C.R. Black Spruce - Kinniwabi Lakes Map	Quartz vein in granitic gneiss
Twp. 30 R. 18, Lat. 47°35' Long. 84°50'	A.C.R. Old Woman Lake - Michipicoten Bay Map	Quartz vein in volcanics and sediments
Twp. 31 R. 26, Lat. 48°10' Long. 85°00'	A.C.R. Mishibishu - Pokei Lakes Map	Syenite dike with minor molybdenite
Twp. 32 R. 23, (Fenlon claims)	Little (1959, p. 169)	Molybdenite in tungsten - quartz vein
Twp. 48 R. 27, (Cline Lake Mines)	Little (1959, p. 168-169)	Minor molybdenite in gold-bearing quartz vein
Strickland twp., Lat. 48°46' Long. 84°53'	Fenwick (1967, p. 13)	Minor molybdenite in basic intrusive rock
Twp. 130, southern part	Moore and Armstrong (1943, p. 17)	MoS2 in quartz veins cutting granite.
Twp. 138, south-east corner (C. Slabodian)	O.D.M. Map 2032	MoS ₂ in granite gneiss inclusions.

CARLETON COUNTY

MARCH TOWNSHIP

March Township, Concession 2, Lot 6

Location:

Lot 6, concession 2, March township, Carleton

county.

Minersls

Present:

Molybdenite.

Development:

In the late 1890's, a small pit was dug by C.W.

Willimott of the G.S.C. to obtain mineralogical

specimens of molybdenite.

Geology:

Molybdenite occurs in a pegmatite dike cutting

crystalline limestone.

References:

Walker (1911, p. 44).

Parsons (1917, p. 304).

Remarks:

Of mineralogical interest only.

DISTRICT OF COCHRANE

Miscellaneous Occurrences

		
Location	References	Remarks
Beatty twp., con. 1, lot 4	Parsons (1917, p. 289) Vokes (1963, p. 84)	Molybdenite occurs in a gold-quart: vein in greywacke
Chipman twp., Pine Lake	Hopkins (1918, p. 197)	Molybdenite
Playfair twp., con. 4, lot 9	Wright (1922, p. 20)	Occurs in quartz-calcite veins with pyrite and chalcopyrite
Rickard twp., con. 4, lot 7	Kindle (1936, p. 34) Vokes, (1936, p. 84)	Molybdenite occurs in gold-silver- quartz veins
Steele twp., con. 4, lot 9 (McLellan)	Lumbers (1962, p. 45)	Molybdenite in quartz-rich pegmatite in volcanics
Steele twp., con. 4, lot 5	Lumbers (1962, p. 29)	Pegmatite in quartz monzonite
Steele twp., con. 4, lots 10 and 11 (Dukes)	Lumbers (1962, p. 45) Vokes (1963, p. 84)	MoS ₂ in quartz-rich pegmatite in a large shear zone. Pits and trenches in 1934 and 1937
Tisdale twp., McIntyre Porcupine Mines Ltd.	Ferguson et al.(1964, p. 91)	Minor molybdenite in gold ore
Tisdale twp., West Dome Lake Mine	Burrows (1924, p. 53) Vokes (1963, p. 84)	Minor molybdenite in gold ore

FRONTENAC COUNTY

OLDEN TOWNSHIP

Smith

Location:

Lot 6, concession 6, Olden township, Frontenac

county.

Minerals

Present:

Molybdenite.

Development: A pi

A pit 20' x 4' x 8' sunk in 1916. In 1917 two shipments of ore were sent to the Mines Branch, Ottawa; May 1917, 1000 lbs. contained 0.27 percent MoS₂ and in June, 1917, 150 lbs contained 0.6 percent

MoS2.

Geology:

Molybdenite occurs in a hornblendic rock

adjacent to granite.

References:

Eardley-Wilmot (1925, p. 65),

Harding (1947, p. 89), Volkes (1963, p. 168).

MacDonnel1

Location:

NW1, lot 7, concession 6, Olden township, Frontenac

county.

Minerals

Present:

Molybdenite, pyrite.

Development:

In 1915, G.M. MacDonnell sunk a pit from which 238 lbs. of ore assaying 0.4 percent MoS₂ was sent to the Mines Branch, Ottawa. In 1957, Corval Corporation Ltd. acquired 7 contiguous claims in Concession 6, lot 7, Concession 7, lot 7 and Concession 7 part of lot 8, which took in the original property of Mr. MacDonnell. This company geologically and geochemically surveyed

the area primarily for copper.

Geology:

Molybdenite occurs with pyrite and pyroxene in a pegmatitic contact zone between limestone and

granite.

References:

Harding (1947, p. 89). O.D.M., resident geologist, Toronto, files.

FRONTENAC COUNTY

Miscellaneous Occurrences

Location	References	<u>Remarks</u>
Hinchinbrooke twp; con. 2, lot 4. (Godfrey)	Harding (1947, Map 1947-5)	In 1934, 2 pits sunk on pyrite, pyrrhotite, molybdenite-bearing pegmatite.
Hinchinbrooke twp; con. 3, lot 22. (Clow)	Harding (1947, p. 60)	
Hinchinbrooke twp; con. 8, lot 26, SW\2. (Sills)	Harding (1947, p. 90)	Small amounts of molybdenite occur in pegmatite dike cutting granite gneiss.
Hinchinbrooke twp; con. 10, 1ot 18, SE½. (Drader)	Harding (1947, p. 90)	Molybdenite occurs in a lens of pegmatite cutting granite gneiss.
Kaladar twp; con. 2, lot 13, NE½. (Marisette)	Harding (1944, p. 72)	Molybdenite occurs in a pegmatite dike cutting granite gneiss.
Kennebec twp; con. 1, lots 14, 15.	Harding (1944, p. 74)	Molybdenite occurs in quartz-rich pegmatite.
Miller twp; northeast range, lot 5. (Kring)	Walker (1911, p. 44) Parsons (1925, p. 305)	1901, 4 pits, mineralogical interest only.
Olden twp; con. 4, lot 19, SW%. (Gray)	Harding (1947, p. 89)	A few scattered flakes of molybdenite in greywacke.
Olden twp; con. 7, lot 2,5Wz. (Silver)	O.D.M. resident geologist, Toronto, files.	2 drill holes totalling 75 feet in serpentine containing spotty low grade mineralization.
Olden twp; con. 9, lot $24, E_2^1$. (Avery)	Harding (1947, p. 90)	Molybdenite in limestone near granite intrusion.

HALIBURTON COUNTY

CARDIFF TOWNSHIP

Orr-Kidd

Location: Lot 11, concession 5, Cardiff township, Haliburton

county.

Minerals

Present: Molybdenite, pyrite, pyrrhotite.

Development: In 1914 the property was staked by Mr. Kidd who

made an open cut 55' x 4' x 5' deep from which 50 lbs. of molybdenite concentrate was produced.

Geology: Molybdenite occurs in small pegmatite dikes

cutting gneiss.

References: Parsons (1917, p. 294), Satterly (1943, p. 60-61),

Hewitt (1957, p. 48), Vokes (1963, p. 140).

Mooney

Location: N_2^1 , lot 18, concession 9, Cardiff township,

Haliburton county.

Minerals

Present: Molybdenite, pyrite, pyrrhotite, fluorite.

Development: In 1917, W.E. Joiner purchased the property from

J. Mooney for Paudash Lake Molybdenum Co. who in 1917 sunk 3 large pits from which several hundred pounds of ore was sent to the United

States.

Geology: Large flakes of molybdenite occur in a quartz-

rich pegmatite dike cutting hornblende gneiss.

Dimensions

and Grade: Not reported.

References: Satterly (1943, p. 63), Hewitt (1957, p. 48).

Evans, O'Brien or Treasure Hill

Location:

 N_2^1 , lot 11, concession 10, Cardiff township,

Haliburton county.

Minerals

Present:

Molybdenite, pyrrhotite, pyrite.

Development:

In 1907 the property was staked by Mr. Evans and a shaft 35 feet deep was sunk. In 1913 M.J. O'Brien optioned the property and in 1914 Messrs. Robertson and Crichton obtained the property. Between 1907 and 1914 development consisted of two open cuts, a shaft 7 by 9 feet, 45 feet deep. 150 tons of ore were treated and 1 ton

of concentrate was shipped to Toronto.

In 1955, Pickering Metals Ltd. optioned the property as part of a larger area covering concessions 9-10, parts of lots 11-13. A magnetometer and scintillometer survey were performed and a geological survey with diamond drilling (4 holes = 2,109 feet) by Pickering Metals Ltd. who were apparently primarily

interested in the property as an uranium prospect.

Geology:

Molybdenite occurs in metamorphic pyroxenite at

the contact between granite and marble.

Dimensions

and Grade: Not reported.

References:

Parsons (1917, p. 294), Eardley-Wilmot (1925, p. 68-69), Satterly (1943, p. 61), Hewitt (1957, p.

48-49), Vokes (1963, p. 141),

O.D.M., resident geologist, Toronto, files.

Brough Lake

Location:

Lot 14, concession 10, Cardiff township,

Haliburton county.

Minerals

Present:

Molybdenite, pyrite.

Development: In 1937 Brough Lake Molybdenite Ltd. did stripping

and trenching over a length of 660 feet. An unknown amount of drilling was also done.

Geology: Molybdenite occurs in a hornblende granite

pegmatite sill, 2-7 feet wide, intruding

biotite-hornblende gneiss.

References: Satterly (1943, p. 61-63),

Hewitt (1957, p. 48.

Joiner

Location: N_2^1 , lot 3, concession 20, Cardiff township,

Haliburton county.

Minerals

Present: Molybdenite.

Development: Exploration in 1917 by W.E. Joiner. In 1919 to

1922, Cardiff Molybdenite Mines Ltd. and later United Molybdenum Corp. Ltd. carried out some trenching and a 30-ton sample containing 0.31 percent MoS₂ and 600 pounds containing 0.53 percent MoS₂ were sent to the Mines Branch at

Ottawa for testing. In 1935 the property

belonged to Shallberg Molybdenite Co. and in 1936 Ventures Ltd. mapped and sampled the property. Cardiff Uranium Mines Ltd. drilled 4 holes on the property in 1952. New Far North Exploration drilled 6 holes totalling 1657 feet in 1965. Georgia Lake Mines drilled 11 holes on the

property in 1966.

Geology: The mineralization occurs in an area of intercalated

paragneiss and limestone intruded by tongues of monzonite and pegmatite. Molybdenite occurs in all rock types but appears to be concentrated at

or near the intrusive contacts.

Dimensions

and Grade: 0.22 percent MoS2 across 8.5 feet over a strike

length of 500 feet. (Northern Miner, January 12,

1967).

Eardley-Wilmot (1925, p. 69-71); References:

> Satterly (1943); Hewitt (1957); Vokes (1963, p. 135-138); Northern Miner (Sept. 22, 1966) (Dec.

8, 1966) (Jan. 12, 1967);

O.D.M., resident geologist, Toronto, files.

HARCOURT TOWNSHIP

Harcourt Mine

Location: Lots 2, 3, and 4, concession 1, Harcourt township,

Haliburton county.

Minerals

Present: Molybdenite, pyrrhotite, pyrite.

During years 1891 to 1901 operated by Canadian Development:

> Land and Immigration Company with work consisting of a large open cut and 2 shallow shafts in lot In 1911, 50 pounds of flake molybdenite was

removed for experimental purposes.

Geology: Molybdenite occurs in sulphide veins in pyroxenite.

Dimensions

and Grade: Not of economic importance.

References:

Walker (1911, p. 40, 41), Eardley-Wilmot (1925, p. 71-72),

Satterly (1943, p. 65-66), Vokes, (1963, p. 139).

LUTTERWORTH TOWNSHIP

Hamilton Molybdenum Alloys Co. Ltd.

Lot 23, concession 5, Lutterworth township, Location:

Haliburton county.

Minerals

Present: Molybdenite. Development: In 1916, Hamilton Molybdenum Alloys Co. Ltd.

sunk a 6 by 12-foot shaft 30 feet deep.

Geology: Molybdenite occurs in pegmatite dikes, 25-50

feet wide, cutting crystalline limestone.

References: Miller (1904, p. 57),

Eardley-Wilmot (1925, p. 72, 73).

MONMOUTH TOWNSHIP

Lillico (Ontario Molybdenite Co.)

Location: Lots 14, 15, concession 12, Monmouth township,

Haliburton county. Claim E.O. 32762.

Minerals

Present: Molybdenite, pyrrhotite, pyrite, mica.

Development: In 1917, Ontario Molybdenite Co. opened several

large cuts and pits along with some diamond drilling. In 1917-1918, 157½ tons of ore were shipped to the Mines Branch, Ottawa from which

1,797 pounds of MoS_2 was recovered.

In 1966, Georgia Lake Mines Ltd. acquired the

property as part of 30 contiguous claims in the

area. The company had magnetic, induced polarization and geochemical surveys done on

the area.

Geology: Molybdenite occurs in a flat-lying pegmatitic

body.

Dimensions

and Grade: Not reported.

References: Eardley-Wilmot (1925, p. 73, 74),

Satterly (1943, p. 66, 67),

Northern Miner (July 28, 1966) and (September 8,

1966).

Gibson

Location: Lot 13, concession 13, Monmouth township,

Haliburton county. Claims E.O. 32127, 32128.

Minerals

Present: Molybdenite, pyrite, pyrrhotite.

Development: In 1916, G. Padwell opened a quarry face 50

feet long, 10 feet high from which 1,300 pounds of ore grading 3.85 percent MoS₂ was shipped.

In 1939, Canadian Molybdenite Mines Ltd., enlarged the quarry to 130 by 120 feet.

In 1954-1955, Roford Mines Ltd., drilled 6 holes

totalling 1,677 feet. No MoS2 was reported.

In 1966, Georgia Lake Mines Ltd. acquired the property as part of 30 contiguous claims in the

area. The company had magnetic, induced polarization and geochemical surveys done on

the area.

Geology: Molybdenite occurs in flat-lying hornblende

gneiss which is cut by pegmatite dikes.

References: Parsons (1917, p. 307),

Eardley-Wilmot (1925, p. 74),

Satterly (1943, p. 67),

Northern Miner (July 28, 1966) and (September 8,

1966).

O.D.M., resident geologist, Toronto, files.

Wilberforce Molybdenite

Location: N_{2} , lot 33, concession 14, lots 32, 33, concession

15, Monmouth township, Haliburton county.

Minerals

Present: Molybdenite, pyrite, pyrrhotite, fluorite,

titanite.

Development: In 1918, Wilberforce Molybdenite Co. Ltd. did

considerable surface work in the area. In 1965, New Far North Exploration Ltd. acquired the property as part of 26 contiguous claims in the

area on which the company did a geochemical

survey for molybdenum.

Geology: Molybdenite occurs in a mineralized pyroxenite

contact zone between granite and crystalline

limestone.

References: Eardley-Wilmot (1925, p. 114),

Satterly (1943, p. 68, 69),

Northern Miner (May 20, 1966, p. 14),

O.D.M., resident geologist, Toronto, files.

Remarks: See Dwyer Property and American Molybdenite Ltd.,

Monmouth twp.

Padwel1

Location: Lot 11, concession 15, Monmouth township,

Haliburton county.

Minerals

Present: Molybdenite, pyrrhotite, pyrite.

Development: In 1916, G. Padwell sunk a pit 70 by 30 feet

and 15 feet deep from which was shipped $55\frac{1}{2}$ tons grading 1.4 percent MoS₂ to the Mines Branch, Ottawa, and 62 tons of 1.0 percent MoS₂

to the International Molybdenum Co. at Renfrew.

In 1966, Georgia Lake Mines Ltd., acquired the property as part of 30 contiguous claims in the area. The company had magnetic, induced polarization and geochemical surveys as well as 4 diamond drill holes totalling 428 feet done

on the property.

Geology: Molybdenite occurs in a flat-lying mineralized

pyroxenite zone at the contact between limestone

and syenite gneiss.

References: Parsons (1917, p. 307),

Eardley-Wilmot (1925, p. 74-75),

Satterly (1943, p. 67, 68), Vokes (1963, p. 134, 135),

Northern Miner (June 9, 1966, and October 6,

1966),

O.D.M., resident geologist, Toronto, files.

American Molybdenite

Location: Lot 32, concessions 15 and 16, Monmouth township,

Haliburton county.

Minerals

Present: Molybdenite, pyrite, pyrrhotite.

Development: In 1917, American Molybdenite Ltd., shipped

58.6 tons of material grading 0.20 percent MoS₂ to the Mines Branch, Ottawa and 27.2 tons of 0.39 percent MoS₂ to Renfrew from a quarry on

the property. A total of 320 pounds of

molybdenite was recovered.

In 1918, Molybdenum Products of America optioned the property and installed a 125-ton concentrator

but in 1919, the property reverted back to

American Molybdenite Ltd.

In 1965, New Far North Exploration Ltd. acquired the property as part of 26 contiguous claims in the area. A geochemical survey and 2 diamond drill holes totalling 568 feet were completed.

Geology: Molybdenite occurs in a mineralized pyroxenite

contact zone between granite and crystalline

limestone.

Dimensions

and Grade: Low grade.

References: Eardley-Wilmot (1925, p. 75-76),

Satterly (1943, p. 69),

Northern Miner (May 20, 1966, p. 14),

O.D.M., resident geologist, Toronto, files.

Remarks: Considered to be a continuation of the Wilberforce

Molybdenite occurrences.

New Far North Exploration Ltd.

Location: Lot 31, concession 17, Monmouth township,

Haliburton county. Claims EO 31766 and 31767.

Minerals

Present: Molybdenite.

Development: In 1965, New Far North Exploration Ltd. acquired

the property as part of 26 contiguous claims in the area. The company had a geochemical survey done on the area and 13 diamond drill holes

totalling 2688 feet.

Geology: Molybdenite occurs in a mineralized pyroxenite

contact zone between limestone and granite

intrusives.

Dimensions

and Grade: Twelve drill holes on claim EO 31767 gave assays

ranging from 0.03 to 0.09 percent MoS₂ across widths of 5 to 25 feet. Surface sampling gave assays from 0.05 to 0.44 percent MoS₂ across

widths of 30 to 40 feet.

References: New Far North Exploration Ltd., Prospectus,

(April 1st., 1966).

O.D.M., resident geologist, Toronto, files.

Remarks: Part of group of claims worked by New Far North

Exploration Ltd. See also Dwyer, American Molybdenite, and Wilberforce Molybdenite.

Dwyer

Location: Lot 32, concession 17, Monmouth township,

Haliburton county.

Minerals

Present: Molybdenite, pyrite, pyrrhotite.

Development: In 1921, P.J. Dwyer did considerable surface

work. In 1940, minor trenching and in 1942 a few short holes were drilled. In 1965, New Far North

Exploration Ltd. acquired the property as part of 26 contiguous claims in the area. The company did a geochemical survey of the area.

Geology:

Molybdenite occurs in a mineralized pyroxenite contact zone between granite and crystalline limestone.

Dimensions

and Grade: Very low grade.

References:

Eardley-Wilmot (1925, p. 75), Satterly (1943, p. 69-70),

O.D.M., resident geologist, Toronto, files.

Remarks:

See Wilberforce Molybdenite and American

Molybdenite, Monmouth township.

HALIBURTON COUNTY

Miscellaneous Occurrences

Location	References	Remarks
Cardiff twp., con. 9, lot 7.	Hewitt (1957, p. 48)	Molybdenite occurs in pegmatite.
Cardiff twp., con. 9, lot 6.	Hewitt (1957, p. 48), Parsons (1917, p. 294)	Molybdenite in pegmatite.
Cardiff twp., con. 11, lot 12. (Matthews-McMahon)	Eardley-Wilmot (1925, p. 68), Satterly (1943, p. 63)	Molybdenite associated with pyrite, pyrrhotite in pyroxenite. 50 pounds of concentrate sold in 1915.
Cardiff twp., con. 11, lot 27, N½. (Dixon-Hunter)	Satterly (1943, p. 63)	Spotty molybdenite in narrow pegmatite.
Cardiff twp., con. 14, lot 18. (Dickson-Riddel)	Satterly (1943, p. 63)	Disseminated pyrrhotite and molybdenite in paragneiss.
Glamorgan twp., con. 5, lot 32. (British Molybdenite)	Satterly (1943, p. 64-65)	Minor molybdenite in greenish-white siliceous rock.
Glamorgan twp., con. 7, lots 1 to 5. (Simmonds)	M.R.D. files, Canadian Mines Handbook (1966-67, p. 333)	Molybdenite and chalcopyrite in pegmatitic rocks. Trenching and geophysical surveys.
Glamorgan twp., con. 13, lot 34.	Satterly (1943, p. 65)	Minor molybdenite in pegmatite.
Lutterworth twp., con. 2, lots 7 and 8. (Hopkins)	Satterly (1943, p. 66), Vokes (1963, p. 143)	MoS ₂ in quartz vein in gneiss.
Lutterworth twp., con. 5, lot 23.	Miller (1904, p. 57), Satterly (1943, p. 66)	\ensuremath{MoS}_2 as flakes and crystals in limestone
Lutterworth twp., con. 10, lot 7.	Walker, (1911, p. 40), Parsons (1917, p. 302)	2 quartz veins with little MoS2.
Monmouth twp., con. 11, 1ot 12. (Anderson)	Eardley-Wilmot (1925, p. 113), Satterly (1943, p. 66)	Minor MoS2 in gold-silver ore, 30 foot shaft.
Monmouth twp., con. 14, lot 10. (Madill)	Eardley-Wilmot (1925, p. 74), Satterly (1943, p. 67)	A few small pits.
Monmouth twp., con. 15, lots 10 and 12. (Affenby-Henery)	Eardley-Wilmot (1925, p. 114), Satterly (1943, p. 67)	MoS ₂ in pyroxenite.
Monmouth twp., con. 15, lot 17. (Johnston)	Eardley-Wilmot (1925, p. 114), Satterly (1943, p. 67)	Minor MoS2 in pyrite zone in gneiss.
Monmouth twp., con. 16, lot 31. (MacDougall)	Satterly (1943, p. 142), Vokes (1963, p. 142)	Minor MoS ₂ in pyroxene-calcite rock.

HASTINGS COUNTY

Miscellaneous Occurrences

295), Adams and Barlow 25, p. 76-77), Thomson Pegmatite in gneis pounds MoS2 pro	
pounds MoS2 pro	
MoS ₂ in pyroxenite	·.
	ited with radioactive erty drilled in 1953.
5, p. 77), . 66)	
2), Vokes (1963, MoS2 disseminated pyroxenite.	and stringers in
107), Adams and MoS2 in quartz vei 357)	n.
), Parsons (1917, In biotite gneiss	and pyroxenite.
1), Vokes (1963, MoS2 as accessory with radioactiv	mineral in pegmatite ve minerals.
07), Vokes (1963, MoS ₂ with graphite limestone.	e and pyrrhotite in
	minerals, proper property in the property in t

DISTRICT OF KENORA

BELANGER TOWNSHIP

Rexdale Mines Ltd.

Claims extend from Fredart Lake in Belanger twp. Location:

> west to Snakeweed Lake, District of Kenora. The main molybdenite showings occur on claims K.R.L. 53045 and 53450 and 53451 and also on K.R.L.

53366 and 53364.

Minerals

Present: Molybdenite, chalcopyrite, pyrite.

Development: Extensive prospecting, trenching and stripping.

> Magnetometer and electromagnetic surveys and 19,302 feet of AX drilling in 45 holes had been completed by January, 1967 mainly on base metal

occurrences on the property.

The property includes a volcanic-sediment Geology:

> assemblage enclosed within a regional granitic The mineralization occurs within sheared complex.

porphyritic grey granite with greenstone

inclusions. Molybdenite occurs with sericite along the contact of quartz veinlets, as disseminations throughout the granite and as coatings on joint surfaces in the granite.

Dimensions

and Grade: Main molybdenite showing has been trenched for

260 feet and a maximum width of 85 feet. best assay from bulk sampling was 0.56 MoS2 and

over 12 feet (company prospectus).

References: Company report by B.A. Edmond, September, 1966.

Prospectus of Rexdale Mines Ltd.

Fenwick (1966, Map P.349).

Remarks: Property was fromerly held (1955-59) by Split

Rock Mines Ltd. and later by Queensland

Explorations Ltd.

ECHO TOWNSHIP

Pidgeon Molybdenum Mines Ltd.

Location:

Lots 8 and 9, concession 5, Echo township, District of Kenora. Claims Pa 14051 and 14194 hold main showings.

Minerals

Present: Molybdenite, ferromolybdite, chalcopyrite,

pyrite, bismuthinite, magnetite, fluorite.

Development:

Staked in 1954 by G.L. Pidgeon who optioned the property to Detta Minerals Ltd. that year. They did stripping, trenching, 2 drill holes totalling 350 feet and drove an adit 73 feet long from which a 255-ton bulk sample was obtained. The adit was completed to 114 feet in 1956. In 1957-58 Rio Canadian Exploration Ltd. drilled 21 holes totalling 2757 feet. A magnetometer survey and 10,800 feet of BX drilling was done in 1965 and one hole (1320 feet) was drilled on claim Pa 33573 in 1966 to test the downward plunge of the mineralization.

Geology:

Quartz veins and pegmatitic veins form a stockwork along the east margin of the Lateral Lake granite stock with molybdenite mineralization localized to that part near the granite-sediment contact. Mineralization is usually confined to the veins or wallrock associated with them. Some aplite stringers may also contain molybdenite.

Major vein systems in the stockwork have 2 directions:

- (a) strike north-northeast, dip 500-600 NW.
- (b) strike northeast to east, dip vertical.

North to northeast system where defined does not show ore values over appreciable widths. The east to northeast system where defined shows better grade mineralization.

Dimensions and Grade

Bulk sampling from the adit reveals 2 sections of molybdenite mineralization. From the portal to 23.1 feet assayed 0.24 percent MoS₂ and from 42.0 to 67.3 feet assayed 0.57 percent MoS₂ over 25.3 feet (Satterly 1960, p. 30).

Satterly (1960, p. 29-30), Vokes (1963, p. 73-78), References:

H.I. Hall, personal communication.

Denison Mines Ltd.

Location: Lots 9 and 10 (part of), concessions 4 and 5,

Echo township, District of Kenora. Claims Pa

31876 to 31888, property adjoins Pigeon

Molybdenum Mines Ltd. to the west.

Minerals

Present: Molybdenite, minor pyrite, pyrrhotite,

chalcopyrite.

12 diamond drill holes in 1963 totalling 4118 Development:

feet.

Mineralization is confined to the granite-Geology:

sediment contact on the north and south margins

of the Lateral Lake stock.

Dimensions

and Grade: Not reported.

References: Diamond drill logs on file at mining recorder's

office, Sioux Lookout.

Denison Mines Ltd., personal communication.

De Coursey-Brewis Minerals Ltd.

Location: Lot 11, concessions 4 and 5, Echo township,

District of Kenora.

Minerals

Present: Molybdenite, chalcopyrite, pyrite.

In 1958, drilled 5 holes aggregating 2007 feet Development:

on claims Pa 17013 and 17007. All claims have

lapsed.

Geology: Molybdenite occurs in granite and pegmatite

cutting hornblende schist along granite-sediment

contact.

Dimensions

and Grade: Low grade.

References: K.J. Benner, personal communication.

Diamond-drill records, Ontario Dept. Mines,

Toronto.

Remarks: Considered to be a continuation of the Pidgeon

Molybdenum Mines Ltd. mineralization.

EWART TOWNSHIP

Evenlode Gold Mines Ltd.

Location: East end of High Lake, Ewart township, District

of Kenora. N.T.S. 52E/11.

Minerals

Present: Molybdenite, chalcopyrite, pyrite.

Development: 1942, 3688 feet of drilling in 21 holes and

from 1960 to 1962 a geological survey, bulk sampling and 61 holes totalling 15,797 feet

were drilled.

Geology: The property is underlain by sheared quartz

porphyry. Three shear zones are occupied by

quartz veins containing molybdenite and chalcopyrite. There is very little mineralization in the wallrock.

Dimensions

and Grade: Drill indicated ore is 126,000 tons grading 0.68

percent molybdenite with possible ore being

calculated at about 650,000 tons. (Davies 1965,

p. 51)

References: Vokes (1963, p. 72),

Davies (1965, p. 49-51).

REDVERS TOWNSHIP

Markle-McEwan

Location: S_2^1 , lot 7, concession 2, Redvers township,

District of Kenora. N.T.S. 52K/3.

Minerals

Present: Molybdenite.

Development: 2 drill holes totalling 500 feet.

Geology: Molybdenite disseminated in granite and granite

gneiss and in quartz veins and pegmatite dikes

trending N 60°W.

References: 0.D.M., resident geologist, Kenora, files,

Vokes (1963, p. 72).

Remarks: Same as Quibell deposits.

Kawashegamuk Lake (Dome Exploration (Canada) Ltd.)

Location: N.T.S. 52F/8, Lat. 49°28', Long. 92°16'.

Kawashegamuk Lake, District of Kenora.

Minerals

Present: Molybdenite.

Development: In 1965 trenching, geochemical survey, and 3 drill

holes totalling 1710 feet.

Geology: Granitic intrusive mineralized with molybdenite-

bearing quartz veins.

Dimensions

and Grade: None of the material is of ore grade over mining

width. (Company report).

References: Campbell Red Lake Mines Ltd. report to shareholders,

December, 1966, M.R.D. files,

O.D.M. assessment file 63A-478, Toronto.

Remarks: Campbell Red Lake Mines Ltd. had a 30 percent

participation.

Steep Rock Iron Mines Ltd. (Young Lake).

Location: N.T.S. 52 G/14, 2 miles south of Young Lake,

District of Kenora. Claim Pa. 36387.

Minerals

Present: Molybdenite, chalcopyrite, pyrite.

Development: Magnetometer and geological survey, trenching

and rock sampling in 1966.

Geology: Molybdenite occurs in disseminations, in quartz

veins and in joint faces in granite and greenstone.

Dimensions

and Grade: An average of 84 samples gave 0.19 percent MoS2

and 0.03 percent copper (0.D.M. file 63-2048).

References: Vokes (1963, p. 73),

O.D.M. file 63-2048, Toronto.

Steep Rock Iron Mines Ltd. (Beidelman Bay)

Location: N.T.S. 52 G/14, Beidelman Bay, Sturgeon Lake,

District of Kenora. Claim Pa. 37553.

Minerals

Present: Molybdenite, chalcopyrite, pyrite.

Development: 1966, 4 diamond drill holes totalling 354 feet.

Geology: Disseminated mineralization in silicified and

porphyritic feldspar granite.

Dimensions

and Grade: Two drill holes averaged 0.028 percent MoS2

over 83 feet and 0.029 percent MoS2 over 101.5

feet. (Diamond drill logs submitted for assessment

work 1966).

Diamond drill logs, Mining Recorder's Office, Reference:

Sioux Lookout.

Remarks: Resembles porphyry copper-molybdenum deposits.

Cochenour-Willans Gold Mines Ltd.

N.T.S. 52 0/3, Bamaji Lake, District of Kenora. Location:

Claims Pa 37956, 37957, 37961.

Minerals

Present: Molybdenite, chalcopyrite.

Line cutting, mapping and diamond drilling Development:

totalling 2576 feet in 12 holes was completed

in 1966.

Geology: Molybdenite mineralization with minor chalcopyrite

> occurs in a system of quartz veins which cut a sheared altered granitic rock. Some molybdenite is also plated on sericitic shear planes in

granitic rocks in proximity to the veins.

Dimensions

and Grade: Mineralization considered uneconomic.

References: Report to Cochenour-Willans Gold Mines Ltd. by

D.A. Hutton.

Diamond drill records, mining recorder's office,

Sioux Lookout.

Bear Head Lake Uranium (CAM Mines Ltd.)

Location: N.T.S. 53 C/13, between the southeast end of

Favourable Lake and Bear Head Lake, District of

Kenora.

Minerals

Present: Uranium, molybdenite, pyrite.

Development: In 1955 aerial scintillometer survey with minor

trenching and sampling, and in 1956 a geological

survey and 9 diamond drill holes by Sigcasco

Explorations Ltd.

In 1957 4 diamond drill holes by New Dickenson Mines Ltd. totalling 1562 feet. Property acquired by CAM Mines in 1967 with extensive development underway.

Geology:

Uraniferous, en echelon biotite-rich lenses of pegmatite, quartz and granite gneiss along the contact between biotite granite gneiss on the south and a migmatitic granite gneiss - pegmatite complex on the north. Minor molybdenite and pyrite associated with radioactive mineralization.

References:

Northern Miner, (November 16, 1967), O.D.M., resident geologist, Kenora, files.

DISTRICT OF KENORA

Miscellaneous Occurrences

Location	References	<u>Remarks</u>
Ball twp., Mackintosh Lake, (Stupack - Bruce)	O.D.M., resident geologist, Kenora files, Vokes (1963, p.71)	Pegmatite and quartz veins with pyrite and molybdenite, 6 drill holes in 1963.
Balmer twp. just south of O'Keefe Lake	Horwood, (1940, p.65), Vokes (1963, p.71)	MoS ₂ in quartz vein.
Corless twp., Corless Patricia Gold MinesLtd.	Harding, (1936, p.25), Vokes (1963, p.71)	MoS ₂ in gold-quartz veins.
Drayton twp., Island F.P. 61 (McCombe)	Johnston (1967, p.19)	Minor molybdenite in brecciated diorite with chalcopyrite.
Ewart twp., High Lake, Claim K.32306	Davies (1965, p.52)	Quartz veins with MoS2 in quartz porphyry.
Forgie twp., Gundy Lake	Davies (1965, p.52)	${\sf MoS}_2$ in quartz veins and fractures.
Hartman twp., Con. 5, lot 11	O.D.M. Map P.242, M.R.D. files	MoS2 in pegmatite in granodiorite.
Todd twp. Red Crest Gold Mines Ltd.	Hurst (1935, p.37), Vokes (1963, p.71)	MoS ₂ in gold-quartz veins.
Tustin twp., Lat. 49 ⁰ 54 [†] , Long. 93 ⁰ 51 [†]	M.R.D. files Pryslak (1967, p. 16)	Massive pyrrhotite with minor ${\tt MoS}_2$ and chalcopyrite.
Webb twp., Lat. 49°55', Long 92°31' (Coates)	Harding (1950, p.26), Parsons (1917, p.297-298)	Molybdenite in pegmatite.
N.T.S. 42 M/12, east side of Reserve Lake	Prest (1942, p.27-28), Vokes (1963, p.71)	MoS ₂ in quartz veins cutting granite.
N.T.S. 52 E/9, Sultana Gold Mine	Parsons (1917, p.299), Vokes (1963, p.71)	Accessory mineral in gold-quartz veins.
N.T.S. 52 E/10, Mikado Mine	Bruce (1925, p.3-8), Greer (1930, p.43)	Molybdenite in pegmatitic dike.
N.T.S. 52 E/11, north of High Lake	Greer (1930, p.55), Vokes (1963, p.72)	Sheared and silicified porphyry carrying ${ m MoS}_2$.
N.T.S. 52 F/2, Lat. 49 ⁰ 07 ¹ , Long 93 ⁰ 00 ¹ , Vickers Lake	Parsons (1911, p.188), M.R.D. files	Gold prospect with minor MoS ₂ , 40-foot shaft.
N.T.S. 52 F/3, Grave Lake	Thomson (1934, p.18), Vokes (1963, p.72)	${\sf MoS}_2$ in quartz veins with chalcopyrite.
N.T.S. 52 F/4, Kakagi Lake west end (Noranda)	M.R.D. files	Molybdenite, chalcopyrite, pyrite in shear zone in granite.
N.T.S. 52 F/5, (Kenty Group)	O.D.M., resident geologist, Kenora, files, M.R.D. files	Quartz-carbonate veinlets with ${\sf MoS}_2$ in shear zone in volcanics.
N.T.S. 52 F/5, Gold Panner Mine	Burwash (1933, p.80), Vokes (1963, p.72)	Minor molybdenite in gold ore.
N.T.S. 52 F/7, Upper Manitou Lake (E.D. Pidgeon)	Eardley-Wilmot (1925, p.77), Parsons (1917, p.304)	Molybdenite with bismuthinite in pegmatite.
N.T.S. 52 F/7, west of Upper Manitou Lake, (Oro Plata)	Vokes (1963, p.72), M.R.D. files	MoS_2 in quartz veins.
N.T.S. 52 F/10, Dinorwic Lake (Van Houten)	Satterly (1941, p.47), Vokes (1963, p.72)	Minor molybdenite in gold-quartz vein,
N.T.S. 52 F/10, Contact Bay, Wabigoon Lake	Parsons (1917, p.313), Vokes (1963, p.72)	MoS_2 in quartz vein in diorite.

<u>Location</u>	References	<u>Remarks</u>
N.T.S. 52 G/3, Lat. 49 ⁰ 04 [†] , Long. 91 ⁰ 14 [†] , Viking Lake	Woolverton (1960), M.R.D. files	Molybdenite occurs in quartz veins in greenstone.
N.T.S. 52 G/5, 7.5 miles south of Ignace, (McClure and Wilson)	Tanton (1938, p.6-7), Satterly (1941, p.61-62)	Molybdenite in quartz veins.
N.T.S. 52 G/5, 1.5 miles south of McNamara Lake (Olson)	Satterly (1941, p.61), Tanton (1938, p.6-7)	Molybdenite in rusty quartz veins.
N.T.S. 52 G/5, Island D250 and west shore of McNamara Lake (Ryan)	Satterly (1941, p.61), Tanton (1938, p.8)	Molybdenite in sugary quartz with massive band of pyrrhotite and pyrite.
N.T.S. 52 J/6, Lat. 50°25', Long. 91°18', (McCombs)	Hudec (1965, p.23)	Molybdenite in massive sulphide zone.
N.T.S. 52 K/1, Lat. 50°04', Long. 92°17'	O.D.M. Map P.336	
N.T.S. 52 L/1, Lat. 50°00°, Long. 94°29°, (Cameron)	Lang (1952, p.118), Vokes (1963, p.71)	Pegmatite carrying uraninite and molybdenite.
N.T.S. 52 L/2, Lower Kettle Falls	Derry (1930, p.39)	Minor MoS ₂ in quartz veins with pyrrhotite.
N.T.S. 52 L/2, Lat. 50°01', Long 94°32', Ena Lake	O.D.M., resident geologist, Kenora, files	Spotty molybdenite in pegmatitic dikes.
N.T.S. 52 0/1, Lat. 51 ⁰ 06', Long. 90 ⁰ 25', Lake St. Joseph	Goodwin (1965, p.34)	MoS2 occurs with beryl in pegmatite.
N.T.S. 52 0/2, Carpentier Lake	Harding, (1935, p.69), Vokes (1963, p.71)	MoS ₂ in pegmatite in granite.
N.T.S. 52 0/4, Slate Falls, Bamadji Lake	Laird (1930, p.22), Wilson (1902, p.19)	Molybdenite in mafic schists.
N.T.S. 52 0/4, Wesleyan Lake (Connell- Williams-Stirret)	Laird (1930, p.22), Harding (1935, p.68 and 73)	${ m MoS}_2$ in quartz veins with other sulphides.
N.T.S. 52 0/11, Long Lake, Shonia Lake area	Laird (1930, p.18), Vokes (1963, p.71)	MoS ₂ in quartz vein.
N.T.S. 53 C/13, Setting Net Lake (Oliver)	Hurst (1929, p.78-81), Vokes (1963, p.71)	${\sf MoS}_2$ in sheared greenstone with other minerals.

LEEDS COUNTY

NORTH CROSBY TOWNSHIP

Merkley

Location:

Lot 14, concession 5, North Crosby township,

Leeds county.

Minerals

Present:

Molybdenite.

Development: Two pits were sunk in 1891.

Geology:

Molybdenite is associated with granite and syenite,

crystalline limestone and pyroxenite.

Dimensions

and Grade: Not considered of economic importance.

References:

Walker (1911, p. 45),

Parsons (1917, p. 308).

LENNOX AND ADDINGTON COUNTY

SHEFFIELD TOWNSHIP

Kellar

Location:

Lot 12, concession 13, Sheffield township, Lennox

and Addington county.

Minerals

Present:

Molybdenite.

Development:

In 1916, surface work by the O'Brien-Greensfield

Co. of Wisconsin resulted in 160 pounds of pure

flake molybdenite being extracted.

Geology:

Molybdenite occurs along limestone-granite gneiss

contact, in a pegmatite dike within the gneiss and as local concentrations within the gneiss. References:

Parsons (1917, p. 311),

Eardley-Wilmot (1925, p. 78),

Vokes (1963, p. 169).

Chisholm

Location:

 E_{2}^{1} , lot 5, concession 14, Sheffield township,

Lennox and Addington county.

Minerals

Present:

Molybdenite, pyrite, pyrrhotite.

Development:

In 1904, M. Chisholm mined 600 tons of rock from

which 85 tons of picked material was sold in the

U.S.A.

In 1915-1917, another large pit was sunk next to

Chisholm's mining operation.

An estimated 10,000 tons of rock has been removed

and 343 tons of ore has been shipped from which

8,000 pounds of MoS2 was recovered.

Geology:

The molybdenite-bearing zone occurs within

limestone surrounded by red granite.

References:

Walker (1911, p. 43-44),

Eardley-Wilmot (1925, p. 78-80),

Vokes (1963, p. 169-170).

Wager

Location:

Lot 15, concession 16, Sheffield township,

Lennox and Addington county.

Minerals

Present:

Molybdenite.

Development:

Several trenches and 3 open cuts in 1915 from

which 286 pounds grading 0.89 percent MoS₂ was

sent to Mines Branch, Ottawa.

Geology:

Molybdenite occurs in quartz-pyroxenite rock

between gneiss and crystalline limestone.

References: Eardley-Wilmot (1925, p. 81), Vokes (1963, p. 170).

LENNOX AND ADDINGTON COUNTY

Miscellaneous Occurrences

Location	References	Remarks
Kaladar twp., con. 2, lot 13, NE1. (Marisette)	Harding (1942, p. 72), Vokes (1963, p. 169)	MoS ₂ in pegmatite in granite gneiss.
Sheffield twp., con. 12, lots 9 and 10. (Calvert)	Eardley-Wilmot (1925, p. 78), Vokes (1963, p. 169)	MoS2 in quartz-pyroxene rock.
Sheffield twp., con. 15, lot 8. (Spratt)	Parsons (1917, p. 311), Eardley- Wilmot (1925, p. 80-81)	MoS2 in an oxidized zone between gneiss and limestone.

DISTRICT OF MUSKOKA

Miscellaneous Occurrences

Miscellaneous Occurrences		
Location	References	Remarks
Monck twp., con. 7, lot 12. (Stead)	Parsons (1917, p. 305-307), Eardley- Wilmot (1935, p. 116)	Molybdenite occurs in gneiss exposed by 2 rock cuts.
Muskoka twp., con. 7, lots 11, 13. (Howell)	M.R.D. files	Molybdenite occurs as veinlets in pegmatite.

DISTRICT OF NIPISSING

STRATHY TOWNSHIP

Barton

Location:

Net Lake, Strathy township, District of Nipissing. Claims H.F.3, T.55135, T.55136 and T.55480-T.55488 inclusive (1967).

Minerals

Present:

Molybdenite, chalcopyrite, silver, gold, (bismuth), pyrite.

Development:

Prior to World War I, the property was optioned to J.W. Barton by Gold Reef Company Ltd. In 1906, a 50-foot shaft was sunk and 200 tons of material removed. From 1906-1918, there was erected, a head frame, a camp, hoist, boiler house and pump.

In 1918, 1,216 pounds of material was shipped to Ottawa assaying 8.42 percent MoS_2 from which 94 pounds of MoS_2 was obtained.

In 1956, Aumo Porcupine Mines Ltd. did a selfpotential survey for copper and nickel. In 1965 Myteque Mines Ltd. did geological, geomagnetic and electromagnetic surveys plus considerable surface work.

Geology:

Molybdenite occurs in angular breccia of basic volcanic rock fragments cemented by quartz, and in quartz veins cutting basic volcanic rock.

References:

Walker (1911, p. 48), Parsons (1917, p. 308),

Eardley-Wilmot (1925, p. 81-82),

Moorhouse (1942, p. 25), Vokes (1963, p. 99-101).

DISTRICT OF NIPISSING

Miscellaneous Occurrences

Location	References	Remarks
Airy twp., con. 8, lot 4. (Jodouin)	Parsons (1917, p. 287, 288), Eardley-Wilmot (1925, p. 116)	Probably graphite.
Calvin twp., con. 9, lot 27. (Gauthier)	Eardley-Wilmot (1925, p. 81), Vokes (1963 p. 99)	Molybdenite occurs in pyroxenite exposed in a pit 20 feet by 6 feet, 6 feet deep.
Calvin twp., con. 9, lot 31. (Galvin)	Eardley-Wilmot (1925, p. 81)	
Garrow twp., con. 3, lot 10. (Shepherd)	Parsons (1917, p. 295), Vokes (1963, p. 98)	
<pre>Kirkpatrick twp., con. 3, lots 1, 2. (Lavallee)</pre>	M.R.D. files, Vokes (1963, p. 99)	MoS ₂ in quartz veins.
Great Manitou Island, Lake Nipissing	Hoffman (1890, p. 44R), Vokes (1963, p. 99)	MoS2 and pyrite in quartz-feldspar gangue.

DISTRICT OF PARRY SOUND

Miscellaneous Occurrences

Location	References	<u>Remarks</u>
Christie twp., con. 12, lot 9. (Bloor Mine)	Satterly (1942, p. 48), Vokes (1963, p. 28)	MoS2 associated with hornblende gneiss limestone and red garnet rock. Not economic.
Conger twp., con. 11, lots 9 and 10. (Blackstone L.)	Ellsworth (1932, p. 175), Vokes (1963, p. 128) Rare ${ m MoS}_2$ in radioactive pegmatite.
Foley twp., con. 5, lots 32 and 33. (Big Four)	Coleman (1900, p. 167), Parsons (1917, p. 295) Minor MoS ₂ in sulphide-rich rock.
Lount twp., con. 2, lot 18.	Satterly (1942, p. 48)	MoS2 in garnet rock and hornblende gneiss.
Nipissing twp., con. 10, lots 28, 29. (Duncan Lake)	Lumbers (personal communication)	Minor MoS2 in feldspar-rich pegmatites.

PETERBOROUGH COUNTY

ANSTRUTHER AND BELMONT TOWNSHIPS

Anstruther and Belmont Townships

Location: Lots 24 and 25, concession 14, Anstruther township.

Near Cordova Mines, Belmont township, Peterborough

county.

Minerals

Present: Molybdenite.

Development: None reported.

Reference: Parsons (1917, p. 287-89).

Remarks: Two molybdenite occurrences have been reported

from Peterborough County but neither report has been substantiated fully. One occurrence is in lot 24 or 25, concession 14, Anstruther township,

and the other is near the Cordova Mines in

Belmont township.

DISTRICT OF RAINY RIVER

Miscellaneous Occurrences

Location	References	Remarks
Halkirk twp., con. 2, lot 6. (Burnett)	M.R.D., files	MoS ₂ in quartz stringers cutting metasediments and granite.
Kingsford twp.	O.D.M., resident geologist, Kenora, files	MoS ₂ in pegmatite.
Steeprock Lake Area, N.T.S. 52B/13	Parsons (1917, p. 312), Vokes (1963, p. 79)	Molybdenite in quartz vein.
Turtle Lake - Crowrock Lake Area, N.T.S. 52B/13	Tanton (1925, p. 10C), Vokes (1963, p. 78)	Three small occurrences in pegmatite.
Bad Vermilion Lake; N.T.S. 52C/10	Parsons (1918, p. 181), Vokes (1963, p. 78)	Molybdenite and pyrite in conglomerate matrix.

RENFREW COUNTY

ADMASTON TOWNSHIP

Gorman

Location: W₂, lot 9, concession 9, Admaston township,

Renfrew county.

Minerals

Present: Molybdenite, pyrrhotite.

Development: In 1917, one large open cut and minor trenching.

A sample of about 22 tons grading 0.38 percent

MoS₂ was sent to Mines Branch, Ottawa.

Geology: Most of the molybdenite occurs with pyrrhotite in

pyroxenite situated along the contact between

limestone and granite-gneiss.

References: Eardley-Wilmot (1925, p. 82),

Satterly (1944, p. 70), Quinn (1952, p. 55-56), Vokes (1963, p. 183).

Kiley

Location: Lot 8, concession 13, Admaston township, Renfrew

county.

Minerals

Present: Molybdenite, pyrite, pyrrhotite.

Development: 2 small pits.

Geology: A small vein of pyrite and pyrrhotite carrying

MoS₂ occurs along the contact of banded limestone

and gneiss.

References: Eardley-Wilmot (1925, p. 83),

Satterly (1944, p. 71), Quinn (1952, p. 56), Vokes (1963, p. 163).

BAGOT TOWNSHIP

Goldyke Mines Limited

Zenith or Phoenix Mine

Location:

Lots 27 and 28, concession 4, Bagot township,

Renfrew county.

Minerals

Molybdenite, pyrite, pyrrhotite. Present:

Development:

Prior to 1924, a shallow shaft, trenching, and stripping was done. Between 1924 and 1937, work consisted of a shaft to 205 feet with considerable development on 2 levels, 2,000 feet of drilling. A 100-150 ton mill operated intermittently from 1934 to 1937. From 1938 to 1940, 4,800 feet of surface trenching, some diamond drilling and development was done on the second level by Zenith Molybdenite Corp. Ltd. December 1942, to April 1943, Wartime Metals Corp. did 874 feet of

underground development and 836 feet of

underground drilling. In May, 1955, Goldyke Mines Ltd. unwatered the shaft and drilled 5

holes in the search for radioactive mineralization.

Geology:

The most important molybdenite zones occur in pyroxenite bodies near dikes, sills and irregular masses of pegmatite. The molybdenite zones are relatively short, narrow, lenticular bodies.

Production:

Produced about 80 tons of ore prior to 1924. From 1934-1937, 8,579 tons hoisted with some 15 to 22 tons of concentrates consisting of 80-85 percent MoS₂ produced. 1942 to 1943, 400 tons at 0.85 percent MoS2 were produced.

References:

Freeman (1936, p. 16-20), Satterly (1944, p. 73-75), Quinn (1951, p. 58-59), Vokes (1963, p. 159-160), O.D.M., resident geologist, Toronto, files.

Not considered economic.

Remarks:

Buckhorn

Location: E_2^1 , lot 28, concession 4, Bagot township,

Renfrew county.

Minerals

Present: Molybdenite, pyrite.

Development: In 1939-40, Buckhorn Mines Ltd. put down a

number of pits and trenches. In 1943, 7 diamond

drill holes were completed.

Geology: Molybdenite occurs with pyrite and rusty

pyroxenite.

Dimensions

and Grade: Drilling indicated 1,500 tons of material

averaging about 1.0 percent MoS2 (Quinn 1951,

p. 57).

References: Satterly (1944, p. 72-73),

Quinn (1951, p. 57), Vokes (1963, p. 162).

BLITHFIELD TOWNSHIP

Quilty

Location: W_2^1 , lot 29, concession 1, Blithfield township,

Renfrew county.

Minerals

Present: Molybdenite, pyrite, pyrrhotite.

Development: Six pits along granite-limestone contact. Main

pit 50 feet by 70 feet, and 10 feet deep.

Geology: Contact zone between granite and limestone

contains a mineralized zone consisting of

disseminated pyrrhotite, pyrite and molybdenite

in pyroxenite.

Production: 19 tons of 0.45 percent MoS_2 was shipped to Mines

Branch, Ottawa in 1917.

References: Satterly (1944, p. 77),

Quinn (1951, p. 60), Vokes (1963, p. 164).

BROUGHAM TOWNSHIP

Hunt Mine

Location: Lots 8 and 9, concession 11, Brougham township,

Renfrew county.

Minerals

Present: Molybdenite, pyrite, pyrrhotite.

Development: Between 1915 and 1918, work consisted of about

1,800 to 2,000 feet of cross-cuts and drifts on four levels to a maximum depth of 150 feet.
230 feet of shafts and raises connect these

workings and 400 feet of drifts have been widened

out into stopes.

In 1914, 3 diamond drill holes totalling 321 feet

and in 1965, New Far North Exploration Ltd. did

a self potential survey.

Geology: A contact metamorphic deposit occurring between

massive reddish pegmatitic granite and limestone

and gneiss.

Production: In 1915, 16 tons grading 0.84 percent MoS2 was

shipped to Ottawa. Between 1916 and 1918, 19,949 tons of material was mined and total concentrates produced amounted to 96,990 pounds, 85 percent

of which averaged about 95 percent MoS2.

References: Wilson (1919, p. 37-41),

Eardley-Wilmot (1925, p. 89-94).

Vokes (1963, p. 146-150),

O.D.M., assessment work files, Toronto.

Charron

Location: S_2^1 , lot 15, concession 11, Brougham township,

Renfrew county.

Minerals

Present: Molybdenite, pyrite, pyrrhotite.

Development: Large open cut, pits and stripping. In 1965,

A.C.A. Howe sampled and mapped the property for

Ciglen Investments Ltd.

Geology: Molybdenite occurs in a pegmatite zone cutting

paragneiss.

References: Parsons (1917, p. 294),

Satterly (1944, p. 79, 80),

O.D.M., assessment files, Toronto.

Ross

Location: Lot 16, concession 11, Brougham township,

Renfrew county.

Minerals

Present: Molybdenite, pyrite, pyrrhotite.

Development: 2 open cuts and shallow shaft up to 1917. In

1965, A.C.A. Howe and Associates examined the

property for Ciglen Investments Ltd.

Geology: Stringers of pyrite, pyrrhotite with some

molybdenite occur in granitic gneisses.

Production: An estimated 720 tons grading about 1.0 percent

MoS₂ was shipped from the property. Much of this

was hand cobbed.

References: Eardley-Wilmot (1925, p. 74-97),

Satterly (1944, p. 80-81),

Vokes (1963, p. 150),

O.D.M., assessment files, Toronto.

O'Brien Mine

Location: S_2^1 , lot 17, concession 11, Brougham township,

Renfrew county.

Minerals

Present: Molybdenite, pyrite, pyrrhotite.

Development: Extensive shafts, pits, trenches prior to 1917.

In 1942, Mount St. Patrick Molybdenite Syndicate carried out surface work and shipped 20 tons of ore recovering 423 pounds of MoS₂. 18 drill holes totalling 1,000 feet were put down in 1943. Property was examined and sampled in 1965

for Ciglen Investments Ltd.

Geology: Sulphide mineralization in gneisses as concordant

layers.

Dimensions

and Grade: 2,000 tons of possible material grading 1.0

percent MoS₂ (Satterly 1944, p. 81).

References: Freeman (1936, p. 12),

Satterly (1944, p. 81), Vokes (1963, p. 152-154),

O.D.M., assessment files, Toronto.

Sunset

Location: Lot 36, concession 14, Brougham township,

Renfrew county.

Minerals

Present: Molybdenite, pyrite, pyrrhotite.

Development: Large open cuts and 70-foot shaft.

Geology: Pyrite and molybdenite occur in pyroxenite.

Production: In 1918, 20 tons of material ranging from 0.65

to 5.47 percent MoS2 was sent to the Mines Branch,

Ottawa. Recovery was 936 pounds of pure MoS2.

References: Parsons (1917, p. 291),

Satterly (1944, p. 81), Vokes (1963, p. 159-160).

GRIFFITH TOWNSHIP

Spain Mine

Location: Lots 30-32, concession 4, and lots 30-33,

concession 5, Griffith township, Renfrew county.

Minerals

Present: Molybdenite, pyrite, pyrrhotite.

Development: In 1916 to 1918, large open cut and shallow

shaft.

In 1939, stripping, trenching and drilling

(4,000 feet) done by North American Molybdenite Corp. Ltd. The property was sampled and drilled in 1965-1966 by New Far North Exploration Ltd.

Geology: Deposit occurs in an association of biotite

gneiss, and pyroxene limestone intruded by

pegmatite.

Production: In 1916-1919, 104 tons of ore treated yielding

8076 pounds of pure MoS2 and 600 pounds of

concentrates of unknown grade.

References: Parsons (1917, p. 297),

Wilson (1919, p. 41-43),

Eardley-Wilmot (1925, p. 101),

Freeman (1936, p. 13), Vokes (1963, p. 155, 158).

LYNDOCH TOWNSHIP

McCoy

Location: S_2^1 , lot 34, concession 2, Lyndoch township,

Renfrew county.

Minerals

Present: Molybdenite.

Development: In 1916-17, trenching and pits. In 1938, a two-

compartment shaft sunk 40 feet and surface open

cuts.

Geology: Molybdenite occurs in a pyroxene syenite pegmatite

intruding crystalline limestone.

Production: Production of one ton grading 0.4 percent MoS2

and eight tons of 93 percent picked flake in 1916. One ton of 0.89 percent MoS₂ in 1917.

References: Eardley-Wilmot (1925, p. 103),

Satterly (1944, p. 84-86),

Hewitt (1953, p. 73),

Vokes (1963, p. 165, 166).

Jamieson Mine

Location: Lots 5 and 6, concession 8, Lyndoch township,

Renfrew county.

Minerals

Present: Molybdenite, sphalerite, galena, chalcopyrite,

pyrite, pyrrhotite.

Development: Open cuts, trenching and 40-foot inclined shaft

prior to 1917.

Geology: Molybdenite occurs near the contacts of granite

and pegmatite with limestone.

Production: Production of 285 tons grading 2.09 percent MoS2

in 1915-16.

References: Walker (1911, p. 45),

Parsons (1917, p. 303),

Eardley-Wilmot (1925, p. 103-105),

Freeman (1936, p. 15), Satterly (1944, p. 86), Hewitt (1953, p. 74-76), Vokes (1963, p. 166).

RAGLAN TOWNSHIP

Liedke and Windle

Location: Lots 27, concessions 9 and 10, Raglan township,

Renfrew county.

Minerals

Present: Molybdenite and pyrrhotite.

Development: In 1917, a large pit was excavated and in 1939

work consisted of a considerable amount of trenching and test pitting, shallow shaft and 1,000 feet of drilling by Edgemont Mines Ltd. In 1942, Edgemont Molybdenite Mines Ltd. did

some trenching.

Geology: Fractures in a pegmatite dike cutting limestone

and gneisses carry molybdenite.

Production: Edgemont Molybdenite Mines Ltd. shipped 27 tons

of 0.75 percent MoS_2 , in 1942.

References: Parsons (1917, p. 209),

Eardley-Wilmot (1925, p. 105-106),

Freeman (1936, p. 13 and 15),

Satterly (1944, p. 87), Hewitt (1953, p. 76-77), Vokes (1963, p. 166-167).

ROSS TOWNSHIP

Rose

Lot 22, concession 2, Ross township, Renfrew Location:

county.

Minerals

Present: Molybdenite, pyrite.

Development: Prior to 1911, trenches and open cuts were

excavated. In 1918, more open cuts and shallow

shaft.

Minor MoS2 occurs in pegmatite cutting gneiss. Geology:

Production: Production 1916 to 1918 was about 17.25 tons.

Walker (1911, p. 46-47), References:

Parsons (1917, p. 310),

Eardley-Wilmot (1925, p. 106), Satterly (1944, p. 87-88), Vokes (1963, p. 167).

RENFREW COUNTY

Miscellaneous Occurrences

Location	References	<u>Remarks</u>
Admaston twp. con. 12, lots 15 and 17.	Freeman (1936, p. 15)	Not described
Admaston twp., con. 13, lot 8, W_2 .	Satterly (1944, p. 71), Quinn (1951, p. 56)	MoS ₂ in rusty pegmatite.
Bagot twp., con. 1, lot 29. (Buckhorn)	Satterly (1944, p. 71), Quinn (1951, p. 6)	Associated with pyrite and pyrrhotite.
Bagot twp., con. 4, lot 25. (Morin)	Parsons (1917, p. 289)	MoS2 with pyrrhotite in pyroxenite.
Bagot twp., con. 4, lot 6. (Hond Lake)	Satterly (1944, p. 71), Quinn (1951, p. 57)	MoS ₂ with pyrite in pyroxenite.
Bagot twp., con. 4, lot 29, E2.	Satterly (1944, p. 75), Quinn (1951, p. 59)	MoS2 in fractures in pegmatite.
Bagot twp., con. 4, lot 30. (Buckhorn)	Satterly (1944, p. 76), Quinn (1951, p. 59)	Not economic
Bagot twp., con. 5, lot 11.	Satterly (1944, p. 76), Quinn (1951, p. 59)	Minor MoS2 in narrow pegmatites.
Bagot twp., con. 10, lot 15, S½. (Hunter)	Satterly (1944, p. 76), Parsons (1917, p. 288-289)	MoS2 and pyrite in pegmatite-limestone contact. In 1890, 100 pounds of pure flake produced.
Bagot twp., con. 12, lot 28, E½. (Culhane)	Eardley-Wilmot (1925, p. 87-88), Satterly (1944, p. 77)	MoS ₂ in pyroxenite, 200 pounds of flake shipped in 1915.
Bromley twp., con. 5, lot 24. (Cole or Puritan)	Parsons (1917, p. 240), Vokes (1963, p. 164, 165)	Erratic MoS2 in pyroxenite and pegmatite.
Brougham twp., con. 1, lot 17. (Box)	Freeman (1936, p. 12), M.R.D., files	Minor MoS ₂ in massive pyrite and pyrrhotite.
Brougham twp., con. 1, lot 18. (Madawaska)	Satterly (1944, p. 78)	Maybe same as showing above.
Brougham twp., con. 11, 13, 14, lots 13, 14, 15. (Maloney)	Freeman (1936, p. 162), Eardley-Wilmot (1925, p. 99)	Minor MoS ₂ in pyritic stringers.
Brougham twp., con. 11 and 12. (Bob)	O.D.M., assessment files, No. 63A968, Toronto.	Minor MoS2 in pyritic seam.
Brougham twp., con. 12, lot 8. (Guiney)	Walker (1911, p. 47), Quinn (1951, p. 64)	Minor MoS ₂ at limestone-pegmatite contact.
Brougham twp., con. 12, lot 18. (Morin- O'Brien)	Freeman (1936, p.12), Quinn (1951, p.64)	Minor MoS ₂ in pyritic stringers.
Burns twp., con. 2, lot 13, S_2^{L} .	Satterly (1944, p. 82)	Minor MoS2 in quartz-rich pegmatite.
Grattan twp., con. 11, 1ot 11, $N^{\frac{1}{2}}$.	Freeman (1936, p. 14), Satterly (1944, p.82)	Pegmatite with minor MoS2
Griffith twp., con. 4, lots 33 and 34.	Freeman (1936, p. 13), Satterly (1944, p. 83 -84)	MoS2 in pegmatite.
Griffith twp., con. 7, lot 18, S^{1}_{2} . (Lepine)	Satterly (1944, p. 84), Vokes (1963, p. 165)	MoS ₂ in pyritic veinlets.
Lyndoch twp., con. 5, lot 33.	Hewitt (1953, p. 74)	Sparse MoS2 in calcite stringers.
Lyndoch twp., con. 7, lot 4.	Hewitt (1953, p. 74)	MoS ₂ in pyroxenite pegmatite.
Lyndoch twp., con. 8, lot 7. (Legree)	Hewitt (1953, p. 76)	MoS2 along granite gneiss-sediment contact.
Lyndoch twp., con. 8, lot 9. (Legree)	Satterly (1944, p. 86)	Produced 155 tons ore.
Lyndoch twp., con. 14, lot 4.	Hewitt (1953, p.76)	MoS2 in pink leucogranite.
Matawatchan twp., con. 6, lot 3. (Wilson)	Parsons (1917, p. 305), Satterly (1944, p. 86-87)	MoS ₂ in pyroxenite.
McNab twp., con. 4, lot 19.	Quinn (1951, p. 65)	MoS2 in granite pegmatite.
Raglan twp., con. 18 and 19, lots 2, 3, 4, (Craig Mine)	Parsons (1917, p. 309), Satterly (1944, p. 33).	MoS2 in corundum deposit.
Raglan twp., con. 18, lot 6.	Walker (1911, p. 46)	MoS ₂ with corundum-bearing rocks.
Ross twp., con. 9, lot 7, W_2^k .	Walker (1911, p. 47), Satterly (1944, p.88)	Occurs with pyrite in limestone.
Sebastopol twp., con. 2, lots 14 and 15.	Satterly (1944, p. 88-89)	Gneisses intruded by pegmatite.
Sebastopol twp., range C, south, lots 36 to 38.	Parsons (1917, p. 310), Satterly (1944, p. 89)	Associated with pyritic pyroxenite and pegmatite.

DISTRICT OF SUDBURY

CABOT TOWNSHIP

Saville

Location: East arm of Claw Lake, Cabot township, District

of Sudbury.

Minerals

Present: Molybdenite, gold, galena, chalcopyrite, hematite

and pyrite.

Development: Between 1919 and 1922, the property was staked

by T. Saville as a gold prospect. In 1960, Claw Lake Molybdenum Mines Ltd. obtained 37 claims in the area. In 1966, the company diamond drilled

the property.

Geology: Molybdenum occurs in quartz veins and stockworks

contained in brecciated and sheared zones cutting

volcanic rocks.

References: Laird (1934, p. 68),

Vokes (1963, p. 83),

Northern Miner (February 16, 1967),

M.R.D., files.

CHESTER TOWNSHIP

Three Ducks Syndicate

Location: East shore of Three Ducks Lake, Chester township,

District of Sudbury.

Minerals

Present: Molybdenite, gold, chalcopyrite, sphalerite,

tetradymite, molybdite, pyrite, arsenopyrite,

pyrrhotite.

Development: In 1930, A. Gosselin staked the property as a

gold prospect. In 1931, Consolidated Mining and Smelting Co. of Canada Ltd. optioned the property

and did some diamond drilling. In 1935, the property was acquired by Young-Shannon Gold Mines Ltd. and a shaft 1,950 feet deep and 100 feet of diamond drilling was done. In 1965, Gogama Gold The company Mines Ltd. optioned the property. did geological mapping and a geophysical survey.

Molybdenite and molybdite occur along with visible Geology:

gold and tetradymite in quartz veins.

Laird (1932, p. 28-30), References:

Vokes (1963, p. 83),

O.D.M., resident geologist, Sudbury, files.

Primarily a gold prospect. Remarks:

DESROSIERS TOWNSHIP

Jonsmith Mines Limited

West side of Alike Lake, DesRosiers township, Location:

District of Sudbury.

Minerals

Present: Molybdenite.

In 1959, Jonsmith Mines Ltd., did geological Development:

> mapping and surface work on 95 claims. In 1960, the company drilled 18 holes totalling 4,452 feet

and sunk two test pits; 50 tons assayed 1.0

percent MoS₂ from pit No. 1 and 165 tons assayed

2.25 percent from pit No. 2.

Geology: Molybdenite occurs as grains and aggregates in

> pegmatite and feldspathic quartz veins, as disseminated grains in sheared volcanics and basic intrusives, and as segregations in

granite near granite contacts.

References:

Vokes (1963, p. 83), Bannerman (1933, p. 710),

Northern Miner (January 1, 1959), Canadian Mines Handbook 1966-67 (p. 167), O.D.M., resident geologist, Sudbury, files.

DISTRICT OF SUDBURY

Miscellaneous Occurrences

Location	References	Remarks
Chester twp:, East side of Mesomikenda Lake, (Eccles-Holmes)	Laird (1934, p. 75-76), Vokes (1963, p. 83)	5 pits reveal MoS ₂ with gold, silver, and copper in quartz veins.
Denison-Graham twp. boundary, Vermilion River	Bell (1890-1891, p. 25F), Parsons (1917, p. 297), Vokes (1963, p. 84)	Molybdemite in quartz veins cutting diorite.
Drury twp., con. 2, lot 3. (Worthington Mine)	Coleman (1905, p. 161), Vokes (1963, p. 84)	Molybdenite occurs as fissure fillings.
DesRosiers twp., Twin Lake.	Bannerman (1928, p. 27c)	Molybdenite in pegmatite.
Elizabeth twp., Ramsay Lake.	Rogers (1962, p. 32)	Molybdenite in pegmatite vein.
Foster twp., con. 3, lots 8 and 9. (Texas Gulf Sulphur)	O.D.M., resident geologist, Sudbury, files	Tungsten prospect with minor MoS2.
Hess twp., northern part.	Osborne (1929, p. 67)	Molybdenite in quartz-rich granite.
Huffman twp., east arm of Opeepeesway Lake (Dunne)	O.D.M., resident geologist, Sudbury, files, O.D.M., map P285	MoS2 in quartz-feldspar porphyry.
Huffman twp., east arm of Opeepeesway Lake (Worthington Mines Ltd.)	O.D.M., resident geologist, Sudbury, files, Northern Miner (October 22, 1961) (June 28, 1962)	${ m MoS}_2$ with gold and silver in red feldspar porphyry.
McKim twp., con. 5, lot 11. (Murray Mine)	M.R.D., files	Minor MoS2 occurs with nickel-copper ores in quartz diorite breccia.
Osway twp., Opeepeesway Lake, (Jerome Mine)	Brown (1948, p. 439), Moorhouse (1949, p. 22), Vokes (1963, p. 83)	${\tt MoS}_2$ as minor constituent in gold ore.
Osway twp., northeast corner	Moorhouse (1949, p. 15)	Not described.
Roberts twp., latitude 46°58', longitude 81°06'. (Mataris prospect)	Eardley-Wilmot (1925, p. 106)	${\tt MoS}_2$ in quartz-veins cutting granite.
Swayze twp., Kenty Gold Mine	Vokes (1963, p. 83)	MoS2 in quartz-veins cutting volcanic rock.

DISTRICT OF THUNDER BAY

CONMEE TOWNSHIP

Young-Walsh

Location: Lot 3, concession 2, Conmee township, District

of Thunder Bay.

Minerals

Present: Molybdenite, chalcopyrite, galena, pyrite.

Development: A 50-foot shaft with 18 feet of cross-cutting

along with extensive trenching and test pitting

completed prior to 1925.

Geology: Molybdenite occurs in a pegmatitic quartz vein

within a large dike of pyritiferous chlorite

syenite.

Production: In 1918 270 pounds of material assaying 1.29

percent MoS2 was sent to Mines Branch, Ottawa.

References: Eardley-Wilmot (1925, p. 107),

Tanton (1926, p. 26, 27), (1931, p. 198),

Vokes (1963, p. 79).

DOROTHEA TOWNSHIP

Woods-Tyson (Amorada or Nortoba)

Location: Dorothea township, District of Thunder Bay, 2

miles west of Bish Bay on Lake Nipigon.

Minerals

Present: Gold, silver, molybdenite.

Development: In 1935, Amorada Gold Mines Ltd. was incorporated

to develop the property. In 1936 the molybdenitebearing vein was sampled by Consolidated Mining and Smelting Co. Can. Ltd. and by Dept. of Mines

and Resources, Ottawa in 1942.

In 1957 Messrs. Elliot and Montgomery restaked the property and Northwind Exploration Ltd. was formed to acquire and develop the property. In 1958 the property was purchased by Nortoba Mines Ltd. who carried out geophysical surveys, stripping, trenching and diamond-drilling in 1958-59.

In 1963, the property was acquired by Messrs. Woods and Tyson, who optioned the property to Candore Exploration Ltd. in 1965. The company did geological surveying, trenching, stripping, and diamond-drilling consisting of 9 holes totalling 2786 feet.

Geology:

Molybdenite occurs in 2 quartz veins associated with quartz diorite intrusives.

Dimensions:

In 1958, estimated 72,000 tons of material grading 2.0 percent MoS₂ over a width of 36 inches along a strike length of 1220 feet (M.R.D. files).

References:

Laird (1936, p. 88-91), Vokes (1963, p. 80),

M.R.D., files,

O.D.M., resident geologist, Port Arthur, files.

McTAVISH TOWNSHIP

Briar Court Mines Limited

Location:

Lots 4 and 5 (part of), concession 8, McTavish township, District of Thunder Bay. Claims T.B. 91737 and 91738 (main showing).

Minerals

Present:

Molybdenite.

Development:

Stripping and test pits in 1918, in 1959 Lindsay Explorations drilled 18 holes totalling 2114 feet, later drilling by Billiton Mining Co. Ltd. of Holland. 1965-67 Briar Court Mines Ltd. obtained 32 claims covering the area and completed a magnetometer survey, 22 claims were purchased by Cariboo Gold Quartz Mining Co. in 1967.

Geology:

The mineralization occurs in a pegmatite dike intruded into greywacke and biotite schists along a north-south contact zone between granite and sediments.

Dimensions

and Grade: Length of the mineralized zone is 2600 feet

with widths ranging from 20 to 180 feet

(company prospectus, 1966).

References: Vokes (1963, p. 80),

Prospectus of Briar Court Mines Ltd. 1966,

M.R.D., files,

O.D.M., resident geologist, Port Arthur, files.

Jackfish-Pritchard (Martin-Hunt) (Owl Lake)

Location: N.T.S. 42D/14, Lat. 48°56'12", Long. 87°02',

District of Thunder Bay.

Minerals

Present: Molybdenite, pyrite, pyrrhotite, gold.

Development: In 1920 and 1921, a shaft 8 feet deep along with

several trenches and pits were excavated.

In 1960, Empire Explorations Ltd. did magnetometer

and self-potential surveys, geological mapping,

trenching and packsack diamond-drilling.

In 1965, Martin-Hunt Mining Ltd. drilled 3 holes

totalling 350 feet. In 1967 the property was

restaked by S. Cowan.

Geology: Molybdenite occurs in a quartz-rich zone in a

fractured aplitic granite that occurs as a

narrow tongue in greenstone.

References: Bartley (1938, p. 40),

Walker (1965, p. 5),

Walker (1967, p. 35, 36),

Martin-Hunt Mining Ltd. Prospectus, 1966,

O.D.M., resident geologist, Port Arthur, files.

Estell (Knox-Lang)

Location: N.T.S. 42D/14, Lat. 48°59'50", Long. 87°17'20",

District of Thunder Bay.

Minerals

Present: Molybdenite, chalcopyrite, pyrite, pyrrhotite,

gold.

Development: In 1913 some trenching and test pitting. Stratmat

Ltd. carried out a resistivity survey and drilled 16 holes totalling 6,775 feet.

In 1960 K.R.N.O. Mines Ltd. drilled 2 short x-

ray holes.

Geology: Mineralization occurs in sugary textured quartz

veins cutting hornblende schist.

Dimensions

and Grade: Low grade and spotty mineralization.

References: Pye (1961, p. 31-34),

O.D.M., resident geologist, Port Arthur, files.

Burstrom

Location: N.T.S. 42E/3, Lat. 49000'10", Long, 87018',

District of Thunder Bay.

Minerals

Present: Chalcopyrite, molybdenite, gold, silver, pyrite.

Development: In 1915 a 50-foot trench, 2 test pits and a 35-

foot shaft were sunk. In 1959 K.R.N.O. Mines

Ltd. drilled 1 hole 240 feet deep.

Geology: Molybdenite occurs in two parallel quartz veins

cutting hornblende schist.

Dimensions

and Grade: The best assay gave 1.05 percent copper and 0.11

percent molybdenum over a core length of 5.0

feet (Pye 1964, p. 24).

References: Hopkins (1921, p. 23),

Bartley (1940, p. 11),

Pye (1964, p. 23, 24).

Moly-Ore Mines Limited

Location: N.T.S. 42E/15, west shore of Burrows Lake,

District of Thunder Bay.

Minerals

Present: Molybdenite, molybdite, chalcopyrite, pyrite.

Development: Prior 1938, surface work was done by Messrs.

Chubish and Gascon. The property was optioned in 1938 by Consolidated Mining and Smelting Co. of Canada Ltd. In 1940 6 holes were drilled. In 1942 Nakina Molybdenite Mines Ltd. held the property. The property is presently held by

Moly-Ore Mines Ltd.

Geology: Molybdenite occurs as coarse flakes in or near

quartz bodies and lenses in granite and is also disseminated through areas of gneissic granite.

Dimensions

and Grade: Estimated 19,400 tons material containing a

possible 751,400 pounds MoS2 (M.R.D. files).

References: Eardley-Wilmot (1925, p. 107),

MacDonald (1941, p. 13-14),

Vokes (1963, p. 80),

M.R.D. files.

Barnes

Location: N.T.S. 52A/10 NW, 6 miles west and 1 mile north

of Loon Station on C.P.R. line, District of

Thunder Bay.

Minerals

Present: Molybdenite, chalcopyrite, selenium, gold.

pyrite, pyrrhotite.

Development: In 1955, Wright-Hargreaves Mines Ltd. did a dip

needle survey, trenching and stripping and diamond-drilled 12 holes totalling 4815 feet.

In 1966 the property was held by J. Wodian.

Geology:

Molybdenite occurs in flat southwesterly dipping quartz veins and pegmatite dikes cutting

greywacke.

References:

O.D.M., resident geologist, Port Arthur, files.

DISTRICT OF THUNDER BAY

Miscellaneous Occurrences

Location	References	Remarks
Chipman twp. (Pine Lake deposit)	Hopkins (1918, p. 197)	MoS2 occurs in pyrrhotite veins cutting hornblende gneiss.
Daley twp.	Fairburn (1937, p. 17), Vokes (1963, p. 81)	${\sf MoS}_2$ in syenite dikelets cutting amphibolite.
Dorion twp. (New Senator-Rouyn)	Northern Miner (Jan. 13, 1966), (May 12, 1966) and (Nov. 10, 1966)	MoS2 in quartz veins in schist.
Dorothea twp. (Sturgeon River Occurrence)	Laird (1936, p. 79), Vokes (1963, p. 80)	MoS ₂ occurs with pyrite and chalcopyrite in diorite.
Haines-Hagey twp. boundary	O.D.M. Map P. 223, G.S.C. Map 266A, Vokes (1963, p. 79)	MoS2 in quartz veins cutting gabbro.
Homer twp. (Terrace Cove)	Logan (1863, p. 705), Parsons (1917, p. 312, 313), Vokes (1963, p. 81)	MoS ₂ in quartz veins in feldspathic gneiss.
Jacques twp., Con. 1, lot 10	MacDonald (1939, p. 16), Vokes (1963, p. 79), O.D.M. Map 2065	MoS ₂ in quartz vein.
Township 84 (McKenzie and Blanchford Claims)	Hopkins (1921, p. 23), Vokes (1963, p. 81)	MoS ₂ and chalcopyrite in quartz vein.
Township 84 (Jackson) (Kay-Hays Mines Ltd.)	Hopkins (1921, p. 14, 15), Vokes (1963, p. 81), O.D.M. resident geologist, Port Arthur, files	Minor MoS_2 in gold-bearing quartz veins.
N.T.S. 42D/9, (Ryanor Mining Co.)	Northern Miner Press (March 3, 1966, p. 3)	MoS ₂ with copper in basic intrusive.
N.T.S. 42D/14, Lat. 48 ^o 59'30", Long. 87 ^o 18' (Cooper)	Hopkins (1921, p. 22), Pye (1961, p. 64- 65) and (1964, p. 31), Thomson et al (1957, p. 63), Vokes (1963, p. 81)	MoS ₂ with pyrite, galena, and chalcopyrite in quartz lenses.
N.T.S. 42D/14, Lat. 48°59'45", Long. 87°18' (Sjolander)	Pye (1961, p. 29) and (1964, p. 37)	MoS2 in a mineralized quartz vein cutting hornblende schist.
N.T.S. 42D/14, Lat. 48 ⁰ 59'45", Long. 87 ⁰ 18' 30" (Tribe)	Pye (1961, p. 80, 81) and (1964, p. 38, 39)	MoS ₂ in a mineralized quartz vein cutting hornblende schist.
N.T.S. 42E/1/NE (Kagiano Mines)	O.D.M. Prel. Map P. 382, Company prospectus 1966	
N.T.S. 42E/13/NE, Lat. 49 ⁰ 59', Long. 87 ⁰ 44' (Kenty claims)	Gledhill (1925, p. 82), Kindle (1931, p. 98), Vokes (1963, p. 80)	MoS2 in quartz veins cutting recrystallized greenstone.
N.T.S. 42E/13, Lat. 49 ⁰ 52', Long. 87 ⁰ 45' (Rolandson	Moorhouse (1938, p. 18), Vokes (1963, p. 80)	MoS2 in quartz vein.
N.T.S. 42E/13, Lat. 50°00', Long. 87°37'	Moorhouse (1938, p. 18), Vokes (1963, p. 80)	MoS ₂ in altered granite.
N.T.S. 42L/5, Lat. 50 ⁰ 21', Long. 87 ⁰ 47' (Zmudzinski)	Pye (1963, p. 11)	Minor MoS ₂ in gold-quartz veins.
N.T.S. 52B/16/SW, Lat. 48°80'30", Long. 90°22'30"	Kaye (1967, p. 25, 27), Vokes (1963, p. 79) Walker (1911, p. 56)	MoS ₂ is associated with in a large shear zone.
N.T.S. 52I/6, Lat. 50 ⁰ 20', Long. 89 ⁰ 20'	Hopkins (1918, p. 191, 194)	MoS2 in granite and granite pegmatite.
N.T.S. 52J/1, Lat. 50 ⁰ 10', Long. 90 ⁰ 17' (Seseganaga Lake)	Gledhill (1924, p. 25, 28), Vokes (1963, p. 79)	MoS ₂ associated with banded hornblende schists.
N.T.S. 52J/1, Lat. 50 ⁰ 13', Long. 90 ⁰ 23' (Near Harvey Station on CNR)	Gledhill (1924, p. 25), Vokes (1963, p. 79) Eardley-Wilmot (1925, p. 109)	${\tt MoS}_2$ in quartz-hornblende gangue.
	-	

DISTRICT OF TIMISKAMING

BOMPAS TOWNSHIP

Beiderman

Location:

1 mile south of Rib Lake, Bompas township,

District of Timiskaming.

Minerals

Present:

Molybdenite, pyrite.

Development:

1939 to 1940, Greenlee Mines Ltd. did considerable trenching and 500 feet of shallow drilling in 7 holes. In 1957, 2 holes were drilled by Kirkland

Mineral Corp. Ltd.

Geology:

A quartz-rich pegmatite carrying clusters and

stringers of molybdenite.

Dimensions

and Grade: Average width is 12 feet and length of 300 feet.

63 pound sample sent to the Mines Branch, Ottawa in 1939 assayed 0.98 percent MoS2 (M.R.D. files).

References:

Vokes (1963, p. 85),

M.R.D., files,

O.D.M., resident geologist, Kirkland Lake, files.

BOSTON TOWNSHIP

Boston Molybdenum Mines Ltd.

Location:

One-half mile east of Round Lake, Boston township,

District of Timiskaming. Claims L.87456 to

87459.

Minerals

Present:

Molybdenite, pyrite.

Development: In 1942, surface exploration by Snails Molybdenite

Mines Ltd. In 1966, bulldozing pits and trenches.

Geology: Mineralization consists of finely disseminated

and erratic coarse flakes, streaks and patches of molybdenite in quartz carbonate veins in brecciated mass of pink syenite porphyry.

Dimensions

and Grade: One area of 1,800 feet of mineralized vein over

widths of 8.0 to 55 feet averages 0.63 percent

MoS₂ (Northern Miner, July 28, 1966).

References: Savage (1964, p. 90),

O.D.M., resident geologist, Kirkland Lake,

files.

McELROY TOWNSHIP

Newman

Location: McElroy township, District of Timiskaming, Lat. 48004!

Long. 790521.

Minerals

Present: Molybdenite, gold, pyrite.

Development: Prior to 1950, the property was held as a gold

prospect. In 1965, Midrim Mining Co. Ltd., Talisman Mines Ltd. and Multi-Minerals Ltd. jointly did surface work and 5 drill holes

totalling 2077 feet.

Geology: Molybdenite occurs in an intrusive breccia zone

cutting Timiskaming sediments.

Dimensions

and Grade: Low grade indicated by diamond drilling.

References: Talisman Mines Ltd. Prospectus, April 29, 1966.

M.R.D., files.

POWELL TOWNSHIP

Pax International Mines Ltd.

Location: Powell township, District of Timiskaming.

Minerals

Present: Chalcopyrite, molybdenite, pyrite, gold, silver.

Development: 1947: 10 claims staked by Ryan Lake Mines Ltd. and initial drilling was done.

1948: Teck Exploration carried out magnetometer and self-potential surveys and drilled 50 holes on selected anomalies.

1950-1956: Ryan Lake Mines Ltd. (later New Ryan Lake Mines and then Min-Ore Mines Ltd.) initiated underground work and mining activities through a 2-compartment shaft 459 feet deep opening 4 levels. Surface trenching and an unknown amount of drilling were carried out.

1957: G.S. Welsh leased the property and fed the mill from clean-up operations.

1958-1966: In 1958 Pax International Mines Ltd. (formerly International Molybdenum Mines Ltd. and International Ranwick Ltd.) resumed surface and underground exploration mainly on the 3rd and 4th levels. Drilling of 65 underground holes and several surface holes was carried out. In 1964 an I.P. survey covered the 10 patented claims and in 1965 to 1966 a geochemical survey and 5 surface and 16 underground drill holes were bored. 700 feet of drifting and raising were completed. Property purchased from Min-Ore Mines Ltd. in 1964.

1966-1967: Cominco optioned the property and work consisted of geological mapping, re-evaluation of previous work and 15 diamond drill holes totalling 8929 feet.

Geology:

The deposit lies within an east-west belt of intermediate metavolcanics which are intruded by small bodies of syenitic feldspar porphyry

and Matchewan diabase dikes. The mineralized zones on the property—appear to be related to steeply dipping, east-trending shear zones in the volcanic rocks.

Dimensions

and Grade: In 1958 reserves were estimated to be sufficient

for a 2-year supply for a 125 tons per day operation. Average grade was estimated at 0.5 percent Mo and 1.25 percent Cu and one dollar

value gold per ton (Vokes 1963, p. 88).

Production: In 1964 11,393 lbs. of concentrates were shipped

for a value of \$19,026.00.

References: Vokes (1963, p. 87-98),

Lovell (1967, p. 37-38),

Report to Cominco by B. Free,

M.R.D., files.

DISTRICT OF TIMISKAMING

Miscellaneous Occurrences

Location	References	Remarks
Alma twp., Lat 48°02', Long. 80°32', (Chief)	Lovell (1967, p.32, 53)	Minor MoS2.
Argyle twp. Lat. 48°04', Long 80°50', (Thompson)	Rickaby (1932, p.18)	Minor MoS ₂ in gold quartz vein.
Baden twp., Thesaurus Gold Mines Ltd.	Lovell (1967, p.53), Dyer (1935, p.46)	Minor MoS ₂ in gold-silver veins.
Baden twp., Lat. 48 ⁰ 02 [†] , Long. 80 ⁰ 43 [†] , (King)	Lovel1 (1967, p.53)	Associated with gold-quartz veins.
Baden twp., Lat. 48 ⁰ 04 ¹ , Long. 80 ⁰ 46 ¹ , (Richore)	Lovell (1967, p.53)	Minor MoS_2 in gold-silver quartz veins.
Benoit twp., Con. 2, lot 9, S/2, (Bourkes) Wright (1921, p.53-55)	In gold-quartz veins.
Boston twp.	Vokes (1963, p.86), Abraham (1951, p.57, 61-63)	Several minor occurrences MoS, in gold-quartz veins. These include claim L5165, claim L4737 (Authier group), and claim L39837 (Tagliamenti claims).
Cairo twp., (Matachewan Hub)	M.R.D., files	Pyrite with some MoS_2 in volcanics.
Cairo twp., (Matachewan Con. Mines Ltd.)	Lovell (1967, p.53)	MoS2 in gold ore.
Catherine twp., (Gold Hill Mines Ltd.)	Grant (1963, p.13), M.R.D., files	MoS ₂ in gold-silver veins.
Catherine twp., Con. 5, lot 7, N/2, (Gold Ridge)	Grant (1963, p.14), M.R.D., files	Minor MoS ₂ .
Catherine twp., Con. 6, lot 7, S/2, (Gold Bank)	Grant (1963, p.14), Bell (1930, p.107)	MoS ₂ and chalcopyrite in shear zone in volcanics.
Clifford twp., (Brett-Trethewey)	Gledhill (1928, p.23, 24), Vokes (1963, p.85)	Occurs with chalcopyrite in a shear zone.
Morrisette twp., (L. Martin)	Wright (1921, p.62), Burrow and Hopkins (1916, p.263)	${\it MoS}_2$ and gold in carbonate zone.
Powell twp., (Noranda)	Lovel1 (1967, p.45)	MoS2 in quartz-carbonate veins cutting syenite.
Powell twp., (Welsh)	Dyer (1935, p.42, 43), Lovell (1967, p.45)	MoS ₂ in quartz veins.
Powell twp., (Welsh-Sauve-Cooper)	Lovel1 (1967, p.43)	${\sf MoS}_2$ in mineralized serpentinite.
Powell twp., (Young-Davidson Mines Ltd.)	North and Allen (1948, p.635), Lovell (1967, p.24, 42, 53)	Minor MoS_2 in gold-bearing quartz veins.
Skead twp., (Skead Gold), Con. 2, lot 20	Burrows and Hopkins (1921, p.21, 22), Vokes (1963, p.86)	MoS_2 in gold-pyrite bearing quartz veins.
Skead twp., Con. 5 and 6, lot 10,(La Fond Gold Mines Ltd Sampson)	Hewitt (1949, p.31, 32, 39), Vokes (1963, p.86), Burrows and Hopkins (1921, p.24-25)	${\sf MoS}_2$ in mineralized quartz veins.
Teck twp.	Vokes (1963, p.85), Thompson (1948, p.110)	MoS ₂ occurs commonly as an accessory mineral in gold-bearing quartz veins.
Terry twp., (Biederman)	Kindle (1936, p.147), Vokes (1963, p.85)	MoS2 in a quartz-rich pegmatite vein.
Timmins twp.	Vokes (1963, p.85)	Minor MoS_2 in a gold-bearing quartz vein.

Miscellaneous Occurrences

Location	References	<u>Remarks</u>
Eby twp., Con. 6, lot 2, N/2, (Lucky Kirkland)	Dyer (1935, p.52-53), Vokes (1963, p.86)	\ensuremath{MoS}_2 associated with syenite and gold-quartz veins.
Gauthier twp., (Upper Canada Mines Ltd.)	Thomson (1941, p.25)	Minor MoS ₂ in gold ore.
Gauthier twp., (Beaverhouse Lake Gold Mine	s)Gledhill (1928, p.21, 34), Vokes (1963, p.86)	Minor MoS ₂ .
Hearst and Skead twps., (Tyon Gold Mines)	Thomson (1947, p.29), Vokes (1963, p.86)	${ m MoS}_2$ with pyrite, galena and gold in quartz stockwork.
Holmes twp., Con. 3, 1ot 9, Golub Lake	0.D.M., Map 2078 in Moore (1966)	MoS ₂ in syenite complex.
Holmes twp., Con. 3, lot 10, (Tully)	Moore (1966, p.16)	MoS ₂ in quartz vein.
Knight twp., Pidgeon Lake (Hurst)	Graham (1932, p.60), Vokes (1963, p.86)	MoS ₂ in gold-quartz veins.
Lebel twp., (Bidgood Kirkland)	Hopkins (1923, p.73-74), Vokes (1963, p.85-86)	${\sf MoS}_2$ in gold-quartz veins.
Lebel twp., (Queen Lebel property)	Hopkins (1923, p.69), Vokes (1963, p.85-86)	MoS ₂ in gold-quartz veins.
Maisonville twp., Con. 3, lot 9, S/2, (Russell)	Lovel1 (1966)	Minor MoS_2 in gold-quartz veins.
Maisonville twp., Con. 3, lot 10, N/2	Lovel1 (1966)	Disseminated ${\sf MoS}_2$ in syenite.
Maisonville twp., Con. 4, lot 6, S/2, (McDonald)	Lovel1 (1966)	${\sf MoS}_2$ in quartz stringers in syenite.
McElroy twp., (Charest)	Eardley-Wilmot (1925, p.110, Abraham (1950, p.44)	MoS_2 in quartz vein in granite.
McElroy twp., (Judge)	Bell (1930, p.108-109), Vokes (1963, p.86)	Minor MoS ₂ in quartz-calcite vein.
McElroy twp., (O'Hare)	Abraham (1950, p.52), Vokes (1963, p.86)	MoS ₂ in breccia zone .
McGarry twp., (Kerrigan Gold Mines)	Canadian Mines Handbook (1966-67, p. 175)	MoS2 in gold-quartz veins.

VICTORIA COUNTY

LAXTON COUNTY

Horscroft and Ponton-Russell Mines

Location: Lot 5, concession 11, Laxton township, Victoria

county.

Minerals

Present: Molybdenite, pyrite.

Development: Up to 1916, a large open cut, trenches and a 50-

foot shaft were excavated. In 1955-56, Rio Tinto Mines Ltd. diamond drilled 6 holes. In 1965, Nocana Mines Ltd. and Texas Kidd Mines Ltd.

did surface work and sampled the property.

Production: Production of $3\frac{1}{4}$ tons of material in 1902 was

valued at \$400 and in 1915 432 pounds of concentrates valued at \$550 were shipped.

References: Parsons (1917, p. 301, 302),

Eardley-Wilmot (1925, p. 110, 111),

Satterly (1943, p. 70), Vokes (1963, p. 143),

M.R.D., files,

O.D.M., statistical files.

VICTORIA COUNTY

Miscellaneous Occurrences

<u>Location</u>	References	<u>Remarks</u>
Digby twp., con. 7, lot 16.	Parsons (1917, p. 295)	
Somerville twp., con. A, lot 3. (Adair)	Eardley-Wilmot (1925, p. 111), Satterly (1943, p. 70), Parsons (1917, p. 299), Vokes (1963, p. 143)	Molybdenite in contact between crystalline limestone and quartzose mica schist.

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