

NOTES ON CROSS LAKE MINING CO. LTD.

Torrington township

Excerpts from report by S. A. Pain. June, 1955

PROPERTY

This report concerns unpatented mining claims T-35524, 35525, 35526, 35527, 35528, 35529, 35530, 35531, and 35532, in the township of Torrington, which is just east of the south end of Lake Timagami, in Northern Ontario. These claims were recorded at Haileybury, 29th September, 1954.

The property is located in the northern part of Cross Lake. Parts of the mainland are included within the property boundaries, but the main showing and the shaft are on an island within claims 35526 and 35527.

ACCESS

By boat from Timagami.

HISTORY

This particular property appears to have been discovered in 1907, when attention was undoubtedly focussed there by the discovery of a vein in surroundings that closely resembled the newly discovered silver mines of Cobalt.

An inclined shaft was sunk, following the vein, and it is reliably reported that some small shipments were made to a smelter of a sulphide ore containing copper and lead, with some gold and silver values.

This small operation ceased, and the property lay idle with the shaft flooded until May, 1955 when it was de-watered for examination, at which time I was present.

GEOLOGY

The consolidated rocks on this property are greywacke and impure quartzites of the lower group of the Cobalt sediments. These

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measures have a more or less vertical attitude, and some vertical shearing can be observed in a general north and south direction. At one point on the south-east shore of the island there is a small outcrop of diabase. A large mass of diabase occurs north of, and in the north-western corner of, Torrington township, and another small outcrop is known farther south on the shore of Cross Lake.

DEVELOPMENT

The early discovery was made in a pit at the edge of the lake, on the island, and a shaft was sunk on an incline of 40° and a bearing of 210° to a depth of 76 feet on the incline. Another pit 300 feet north from the shaft shows a flat lying quartz vein, about 12 inches wide, with some chalcopryite mineralization, and this could indicate a parallel occurrence.

The vein in the shaft strikes approximately east-west, with a dip to the south of 40°, and shows a slight plunge, or tilt, downwards to the east. It consists almost entirely of quartz and varies from 4 inches to 24 inches in width. The wall rock throughout is Cobalt greywacke, showing some pronounced north-south shearing, and some carbonate stringers were noted. At one place in the shaft the hanging wall had been broken into, and two other veins were disclosed, one of 24 inches and the other of 15 inches in width, but no drifting had been done on these. It was evident that good mineralization had been encountered in the shaft, judging from the lumps of high-grade ore found lying in the muck, consisting of copper and galena, and some was observed on the dump.

Heavy mineralization of pyrite, chalcopryite, and galena was noted at two points at the bottom of the shaft, and samples from these assayed as follows: -

Across 15 inches

Gold 0.03 oz; silver 2.26 oz.; copper 5.03%; lead 2.39%.

Giving a gross value of \$45.80 per ton at current prices.

Across 8 inches

Gold 0.01 oz.; silver 2.12 oz.; copper 0.35%; lead 4.99%.

Giving a gross value of \$18.94 per ton at current prices.

RECOMMENDATIONS

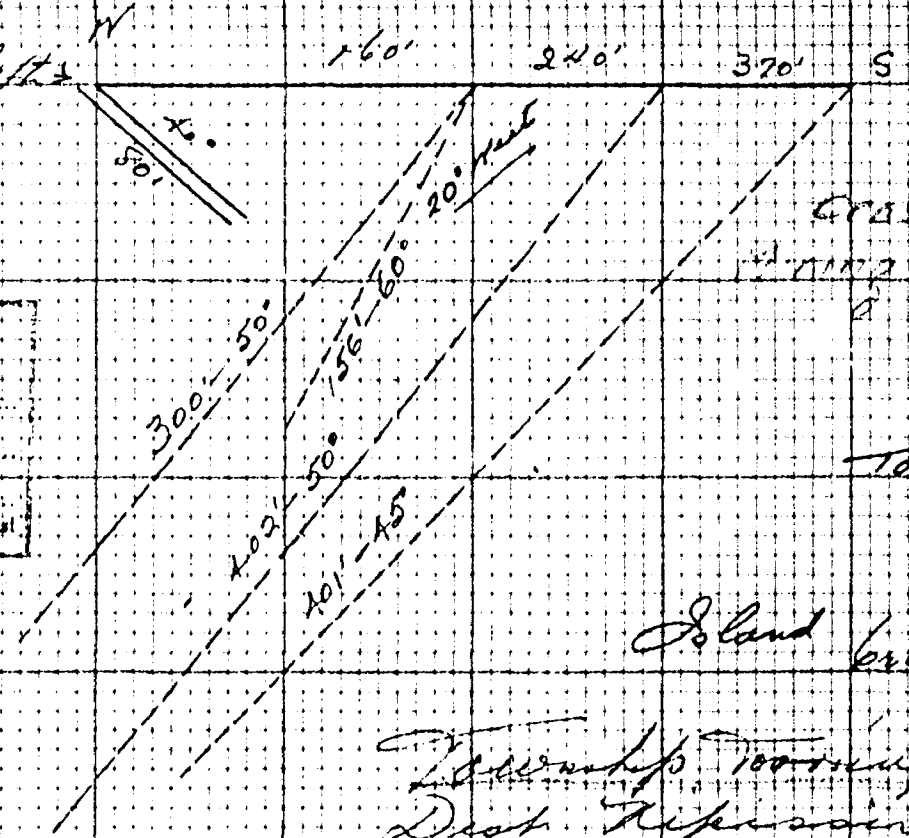
Diamond drilling programme amounting to approximately 3000 feet recommended and outlined.

1st June, 1955.

Original Report signed by
S. A. Pain.

ANALY
H

Old Shaft



GRASSY

ASSESSMENT WORK
 Rec'd from Mining Recorder
 Halleybury
 Date Dec 30/55
 Resided Geologist

Total pp 1259

RECEIVED
 DEC 7 1955
 TEMISKAMING
 MINING DIVISION

Island crosshairs

Temiskaming
Dist. Engineering

claim 35526
 Shaft claim 35527

How left on Island

All cross-sections from
Electric Geophysicist to be done next summer



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Prospectus of Cross Lake Mining Company Limited

UNDER
THE SECURITIES ACT, (ONTARIO)

1. Cross Lake Mining Company Limited (hereinafter called "the Company") was incorporated under The Corporations Act, 1953 of the Province of Ontario by Letters Patent dated March 4, 1955. By Supplementary Letters Patent dated April 12, 1955 the authorized capital of the Company was increased from \$3,000,000.00 to \$4,000,000.00. The head office of the Company is Suite 1808, 80 King Street West, Toronto, Ontario.

2. President, Director and Manager	ACHILLE ANDRE LESSARD, 24 Gore Street, Perth, Ontario	Mining Executive and Prospector
Vice-President and Director	DR. JAMES BRUCE SYMINGTON, 1088 Queen Street East, Sault Ste. Marie, Ontario	Physician
Secretary-Treasurer and Director	ALEXANDER GLADSTONE MACKENZIE, 76 Broadway Avenue, Toronto, Ontario	Retired
Director	EVERTON WRAY VAN LUVEN, 94 Barrie Street, Kingston, Ontario	Retired
Director	JOSEPH ROMEO CHARRON, Lachute, Quebec	Realtor
Promoter	ACHILLE ANDRE LESSARD, 24 Gore Street, Perth, Ontario	Mining Executive and Prospector
3. Auditors	FISHER, GORDON & COMPANY, 100 Adelaide Street West, Toronto, Ontario	Chartered Accountants
4. Registrar and Transfer Agent	CHARTERED TRUST COMPANY, 34 King Street West, Toronto, Ontario and 388 St. James St. West, Montreal, Quebec	

5. The authorized capital of the Company consists of 4,000,000 shares of a par value of \$1.00 each of which 800,005 have been issued to date as fully paid.

6. There are no bonds or debentures outstanding, nor does the Company propose to issue any at the present time.

7. A total of 720,000 shares are held in escrow by Chartered Trust Company, 34 King Street West, Toronto, subject to release pro rata to all persons entitled thereto upon the consent of the Ontario Securities Commission and the directors of the Company. The written consent of the Ontario Securities Commission is also required for the transfer or other alienation of shares within the escrow.

8. The following shares have been sold for cash:

5 shares @ \$1.00 per share..... \$5.00

No commission was paid or is payable in respect of the said shares. There are no securities of the Company other than shares.

9. No shares have been issued or are to be issued, nor was any cash paid nor is any payable to any promoter for promotional or other services, except that Achille Andre Lessard, promoter of the Company, 24 Gore Street, Perth, Ontario, is entitled to receive a weekly fee of \$100.00 for his services as Manager to the Company.

10. (a) The Company is the recorded holder of the following unpatented mining claims:

Group 1

SSM-24590 to SSM-24592 inclusive,
SSM-24595 to SSM-24626 inclusive,
SSM-42037 to SSM-42053 inclusive,
SSM-24633,

situated in the Township of Long, Sault Ste. Marie Mining Division, Ontario.

Group 2

T-35524 to T-35532 inclusive,

situated in the Township of Torrington, Temiskaming Mining Division, Ontario.

(b) The claims were acquired from Achille Andre Lessard, 24 Gore Street, Perth, Ontario, the consideration being the allotment and issue to him of 800,000 shares of the capital stock of the Company of which 90% thereof have been deposited in escrow as mentioned in paragraph 7.

(c) To the knowledge of the signatories hereto the following are the only persons who have received or are to receive a greater than 5% interest in the vendor consideration:

ALDERIC TESSIER, Lachute Mills, Quebec.

WILLIAM SLADE EDWARDS, 96 Alice Street, Cobourg, Ont.

HAMILTON NELSON COCKBURN, Sturgeon Falls, Ontario.

WILLIAM EARL, c/o Aboude Drug Store, Princess St., Kingston, Ont.

MARIE CECILIA LESSARD, 24 Gore Street, Perth, Ont.

FUNDY BAY COPPER MINES LTD., 404 Queen St., Fredericton, N.B.

11. (a) Accounts of the known history of the properties and their accessibility is contained in the reports which accompany and form a part of this prospectus and to which reference is hereby made:

Group 1

Joint reports of C. A. Campbell and L. Chamberlin dated March 9 and April 21, 1955.

Group 2

Report of S. A. Pain dated June 1, 1955.

There has been no surface or underground exploration or development and there is no surface or underground plant or equipment. No work has yet been done, or any improvements made, by the present management.

(b) It is planned to expend the proceeds from the current sales of the Company's shares in accordance with the recommendations of the Company's engineers in their reports above referred to, in acquiring additional mining claims, in paying the incorporation and organization expenses and the arrears of salary owing to the Manager of the Company amounting to \$1,000.00.

12. There are no option or underwriting agreements relating to the Company's shares nor does the Company propose to enter into any at the present time. The Company proposes to offer its shares through registered brokers who will act as agents and charge a commission of up to 25% of the sale price. In addition to any commission which will be paid to brokers selling the Company's shares as its agent, the Company may pay an estimated maximum of 15% of the selling price for promotional expenses.

13. There is no indebtedness to be created or assumed other than commitments in the regular course of the Company's business which is not shown in the Balance Sheet as at May 13, 1955, which accompanies and forms a part of this prospectus.

14. (a) The following are the particulars with regard to the principal business in which each director has been engaged during the past three years:

ACHILLE ANDRE LESSARD—Mining Executive—President of the Company since March, 1955; prospecting on own account until March, 1955 and since then prospecting for Company.

DR. JAMES BRUCE SYMINGTON—Physician practising on own account

ALEXANDER GLADSTONE MACKENZIE—Retired

EVERTON WRAY VAN LUVEN—Retired

JOSEPH ROMEO CHARRON—Partner, Charron Real Estate

(b) None of the directors has had any interest, direct or indirect, in any properties acquired or to be acquired by the Company except Achille Andre Lessard who sold Groups 1 and 2 to the Company. See paragraph 10. (b).

(c) No remuneration has been paid to any officer or director of the Company since incorporation and it is not anticipated that any will be paid during the current financial year except that Achille Andre Lessard is being paid \$100.00 per week for his services as Manager of the Company.

15. The estimated amount of preliminary expenses, including governmental fees for incorporation and qualification of the Company's shares for sale to the public, legal and engineering fees, printing and transfer agent's fees is \$5,500.00, none of which has been paid. The development expenses cannot be estimated as they will depend on the result of the initial survey work to be undertaken on the claims and the amounts received from the sale of the Company's shares. It is anticipated that the head office expenses, including head office accommodation, rent, etc., will amount to approximately \$100.00 per month.

16. No dividends have been paid by the Company.

17. By reason of the ownership of vendor shares Achille Andre Lessard would be in a position to elect or cause to be elected a majority of the directors of the Company.

18. There is no arrangement for the sale of vendor shares, but the signatories hereto are advised that the holders of any vendor shares that are now free, or may hereafter be released from escrow, may offer such shares for sale through registered security dealers in Ontario. If such is done the proceeds resulting from the sale, or resale, of such shares will not accrue to the treasury of the Company.

The foregoing constitutes full, true and plain disclosure of all material facts in respect of the offering of securities referred to above as required under Section 38 of The Securities Act, (Ontario) and there is no further material information applicable other than in the financial statements where required.

PROMOTER

ACHILLE ANDRE LESSARD

DIRECTORS

ACHILLE ANDRE LESSARD

DR. JAMES BRUCE SYMINGTON,

Per: Achille Andre Lessard,

His Attorney

ALEXANDER GLADSTONE MACKENZIE,

EVERTON WRAY VAN LUVEN,

His Attorney

Per: Achille Andre Lessard,

JOSEPH ROMEO CHARRON,

Per: Robert Alexander Cranston

His Attorney

DATED at Toronto, Ontario, this 14th day of June, 1955.

Report on
Cross Lake Mining Company Limited

LONG TOWNSHIP PROPERTIES

April 21st, 1955

CERTIFICATE

I, Colin A. Campbell, of Room 1204, 67 Yonge Street, Toronto, Ontario, hereby certify:

1. That I am a Mining Engineer and reside at R.R. No. 2, Woodbridge, Ontario.
2. That I am a member of the Association of Professional Engineers of the Province of Ontario and have been practising my profession as a Mining Engineer for over thirty years.
3. That I have no direct or indirect interest whatsoever in the properties held by Cross Lake Mining Company Limited, nor in the securities of the Company.
4. That I have no expectation of obtaining any direct or indirect interest in the properties held by Cross Lake Mining Company Limited, or in the securities of the Company.
5. That the information contained in the accompanying report on Cross Lake Mining Company Limited, is based on collaboration with my associate Mr. L. Chamberlin, and the study of the various reports and data which were available.

"COLIN A. CAMPBELL"

Colin A. Campbell, P.Eng.
Consulting Engineer

To accompany report on
Long Township Property for
Cross Lake Mining Company Limited,
Toronto, April 21st, 1955.

CERTIFICATE

I, Llewellyn Chamberlin, Suite 1204, 67 Yonge Street, Toronto, Ontario, hereby certify:

1. That I reside at 396 Avenue Road, Toronto, Ontario.
2. That I am a graduate of Queen's University, Kingston, Ontario, with degree of B.Sc. in Mineralogy and Geology 1923, and that I am a member of the Corporation of Professional Engineers of Quebec and the Association of Professional Engineers of the Province of Ontario and that I have practised my profession for over thirty years.
3. That I have no direct or indirect interest whatsoever in the properties or securities of Cross Lake Mining Company Limited.
4. That I have no expectation of obtaining any direct or indirect interest whatsoever in the claims or the securities of Cross Lake Mining Company Limited.
5. That the information contained in the accompanying report on Cross Lake Mining Company Limited is based on the writer's knowledge of the area gained from examination of other properties in the district, together with technical data obtained from reports and geological maps on the area, and published reports of operating companies.

"L. CHAMBERLIN"

L. Chamberlin, P.Eng.
Consulting Geologist

To accompany report on
Long Township Property for
Cross Lake Mining Company Limited,
Toronto, April 21st, 1955.

REPORT MADE TO:

The President and Directors of Cross Lake Mining Company Ltd., with head office at Perth, Ontario.

PROPERTY:

The property covered in this report comprises a single group of 17 unsurveyed mineral claims, located in Long Township, Sault Ste. Marie Mining Division, Province of Ontario.

Claims are numbered SSM 42037 to SSM 42053 inclusive.

LOCATION AND ACCESSIBILITY:

The property lies northwest of the Pronto (Peach) property where the original uranium finds in the area were made, and which are now being developed to production.

The group lies about 2 miles north of the Canadian Pacific Railway and Trans-Canada Highway, about nine miles east of the Town of Blind River. (LONG TWP.)

GENERAL GEOLOGY:

The oldest rocks in the area consist of a complex of schisted volcanics and sediments and older granite and gneiss. Great thicknesses of Huronian sediments lies unconformably on the old basement complex. The oldest members of the Huronian Sediments is the Mississagi quartzite at the base of which quartz-conglomerate bands lie in contact with the older rocks.

ECONOMIC GEOLOGY:

The presently known uranium bearing deposits of economic value in the area occur in highly pyritized sections of the quartz-pebble conglomerate members of the Mississagi quartzite. The uranium minerals occur as replacements in the matrix of the conglomerate. Oxidized surface exposures of the deposits often show only low uranium values, while at greater depth the unaltered material shows values of economic value. Paucity of uranium values near the surface may be explained by the highly soluble nature of uranium in sulphuric acid solutions created by interaction of surface waters and the pyrite, with resulting leaching and dissipation of the uranium content.

Surface exposures of the Mississagi formations take the shape of a large "Z" extending for a distance of about 100 miles in the area. Conglomerate bands have been found in outcroppings at intervals practically throughout this entire distance, but, work carried out in the district to date indicate that not all sections are uranium bearing, and that faulting or other structural features have acted in controlling the introduction of the uranium bearing solutions into certain possibilities for ore occurrences and a great deal of exploratory work will be necessary to prove up or eliminate any particular section.

The Pronto uranium deposits occur along the south-dipping limb of the "Z" shaped contact zone. Those of Algom, including Nordic and Elliot Lake properties, and the Buckles property are in the central north-dipping section, while the Algom Quirke Lake deposits are in the south-dipping formations of the north limb. Consolidated Denison are obtaining values at depth in the area between the north and central limbs. It appears reasonable to assume that the Denison deposits are a downward continuation of the Algom Quirke Lake occurrences. Structural conditions indicate a possible very large tonnage potential underlying the area between the north and central sections.

Many millions of tons of ore have already been indicated in the district and extensive financing has been arranged to continue development and bring the Algom and Pronto properties into production. Many other properties in the area are being explored and it appears reasonable to assume that other deposits of importance will develop as work progresses.

LOCAL GEOLOGY:

No detailed geological mapping has been done on the Cross Lake group of seventeen claims, but, Map No. 155A show them to lie within the granitic area immediately north of the south granite-sedimentary contact zone. The same map shows a wide band of basic intrusives cutting through and underlying about one-third of the group.

CONCLUSIONS AND RECOMMENDATIONS:

Your property is located in an area of interest, where large deposits of uranium bearing ores have been located and are being developed to production on an impressive tonnage basis.

The property lies north of the south-dipping contact zone between the older basement rocks and the Huronian sediments and as such cannot be considered as being favourably located for possibilities of finding continuation of the Pronto ore zones which lie to the south. It is, however, possible that other structural conditions favourable to the introduction and deposition of uranium bearing minerals may exist in the formations underlying the group.

In view of the widespread distribution of uranium minerals in the area, and the proximity of your property to that of Pronto Uranium, we are of the opinion that your property warrants a thorough program of surface investigation.

In carrying out such a program, we recommend that the group be geologically mapped and thoroughly prospected with aid of a geiger counter. In carrying out this work particular attention should be given to shear, fault and mineralized zones which may provide avenues for introduction and deposition of mineralizing solutions.

All of which is respectfully submitted.

"L. CHAMBERLIN"

L. Chamberlin, P.Eng.
Consulting Geologist

"COLIN A. CAMPBELL"

Colin A. Campbell, P.Eng.
Consulting Engineer

Toronto, April 21st, 1955.

Report on
Cross Lake Mining Company Limited

March 9th, 1955

C E R T I F I C A T E

I, Colin A. Campbell, of Room 1204, 67 Yonge Street, Toronto, Ontario, hereby certify:

1. That I am a Mining Engineer and reside at R.R. No. 2, Woodbridge, Ontario.
2. That I am a member of the Association of Professional Engineers of the Province of Ontario and have been practising my profession as a Mining Engineer for over thirty years.
3. That I have no direct or indirect interest whatsoever in the properties held by Cross Lake Mining Company Limited, nor in the securities of the Company.
4. That I have no expectation of obtaining any direct or indirect interest in the properties held by Cross Lake Mining Company Limited, or in the securities of the Company.
5. That the information contained in the accompanying report on Cross Lake Mining Company Limited, is based on collaboration with my associate Mr. L. Chamberlin, and the study of the various reports and data which were available.

"COLIN A. CAMPBELL"

Colin A. Campbell, P.Eng.
Consulting Engineer

To accompany report on
Cross Lake Mining Company Limited,
Toronto, March 9th, 1955.

C E R T I F I C A T E

I, Llewellyn Chamberlin, Suite 1204, 67 Yonge Street, Toronto, Ontario, hereby certify:

1. That I reside at 396 Avenue Road, Toronto, Ontario.
2. That I am a graduate of Queen's University, Kingston, Ontario, with degree of B.Sc. in Mineralogy and Geology 1923, and that I am a member of the Corporation of Professional Engineers of Quebec and the Association of Professional Engineers of the Province of Ontario and that I have practised my profession for over thirty years.
3. That I have no direct or indirect interest whatsoever in the properties or securities of Cross Lake Mining Company Limited.
4. That I have no expectation of obtaining any direct or indirect interest whatsoever in the claims or the securities of Cross Lake Mining Company Limited.
5. That the information contained in the accompanying report on Cross Lake Mining Company Limited is based on the writer's knowledge of the area gained from examination of other properties in the district, together with technical data obtained from reports and geological maps on the area, and published reports of operating companies.

"L. CHAMBERLIN"

L. Chamberlin, P.Eng.
Consulting Geologist

To accompany report on
Cross Lake Mining Company Limited,
Toronto, March 9th, 1955.

REPORT MADE TO:

The President and Directors of Cross Lake Mining Company Limited with head office at Perth, Ontario.

PROPERTY:

The property covered in this report comprises a single group of 36 unsurveyed mineral claims, located in Long Township, Sault Ste. Marie Mining Division, Province of Ontario.

Claims numbers are as follows:

SSM-24590 to SSM-24592 inclusive,
SSM-24595 to SSM-24626 inclusive,
SSM-24633.

LOCATION AND ACCESSIBILITY:

The property ties on to, and lies immediately north of the Pronto Uranium (Peach) property on which the original uranium finds in the area were made and subsequently developed to indicate large ore tonnages now being prepared for production.

The group is located about ten miles east of the town of Blind River, due north of the Canadian Pacific Railway, and Highway No. 17 running between Sudbury and Sault Ste. Marie.

GENERAL GEOLOGY:

The general geology of the area is that of the sub-Province of Temiskaming in the southern part of the Canadian Shield.

The basal rocks in the region consist of a schisted complex of volcanics and sediments and older granite and granite gneiss. These are overlain by great thicknesses of Huronian sediments, the oldest member being the Mississagi quartzite at the base of which quartz-conglomerate bands lie unconformably on the older granite-greenstone complex. These rocks have all been intruded by later granite and basic dikes and masses of Keeweenawan age.

ECONOMIC GEOLOGY:

The Major known uranium occurrences in the area are found in highly pyritized sections of the quartz-pebble conglomerate members of the Mississagi quartzite along their contacts with the older granite and gneisses. The uranium occurs as a replacement, along with pyrite, in the matrix of the conglomerate. Leached or goassanized surface showings along these bands often show only low uranium values although radio-activity may be quite high. In such locations much higher uranium values are usually found at greater depth in the fresh unoxidized pyritized conglomerate.

Surface exposures of the Mississagi quartzites in the area take the form of a large inverted "S" extending for over 100 miles in the district. The Pronto uranium deposits are located along the south limb of the inverted "S" those of Algom, including Elliot and Nordic Lake, and Buckles uranium are along the central section, with Algom Quirke Lake deposits covering the north limb. Consolidated Denison are obtaining uranium values at depth in the downward extension of the southerly dipping quartz-conglomerate bands of the north limb.

Several million tons of uranium ore have been outlined by diamond drilling on the Pronto and Algom properties and underground development is now underway to develop these properties to production.

LOCAL GEOLOGY:

The Cross Lake claim group lies in the area between the south and central uranium bearing zones. Geological maps of the area show this section to be largely unmapped but from what mapping has been done indications are that it is underlain mainly by granite with associated bands of the older Precambrian complex of volcanics and sediments.

CONCLUSIONS AND RECOMMENDATIONS:

The property is situated in the Blind River area where many uranium bearing bodies have been located, and which has promise of becoming one of the major uranium producing districts of the world.

The property is located north of the south limb of the southerly dipping Mississagi formations in which the Pronto ore bodies occur, and as a consequence cannot be considered as being advantageously located with respect to continuity of the Pronto ore conditions, either on strike or on dip. However, as the area is virtually unmapped it is possible that other formation or structural conditions may exist on the property which would be suitable to introduction of uranium bearing solutions and deposition of uranium minerals concurrent with those impregnating the later conglomerates.

In view of the widespread occurrence of uranium in the area and its proximity to the Pronto property, we are of the opinion that your property offers possibilities warranting investigation, and we recommend that the group be thoroughly geologized and prospected with aid of a geiger counter. In carrying out this work particular attention should be given to shear or fracture zones, and to conglomerate or other rock formations of a porous nature which offer suitable conditions for impregnation by mineralizing solutions.

All of which is respectfully submitted.

"L. CHAMBERLIN"

L. Chamberlin, P.Eng.
Consulting Geologist

"COLIN A. CAMPBELL"

Colin A. Campbell, P.Eng.
Consulting Engineer

Toronto, March 9th, 1955.

Cross Lake Mining Company Limited

Report by

S. A. PAIN, M.C.I.M., P.Eng.

1st June, 1955

CERTIFICATE

I, Sidney A. Pain, of Swastika, Ontario, declare that:

1. I am a mining engineer and geologist, with the degree of A.C.S.M. from the Camborne School of Mines, Cornwall, England, in 1922, and have practised my profession in Canada for the past thirty years.
2. I wrote the accompanying report concerning Cross Lake Mining Company Ltd. following an examination of their property at Cross Lake May 12th, 13th and 14th, 1955.
3. I am not interested in any manner in the claims or securities or shares of this Company, and do not expect to be.

Swastika, Ontario,
1st June, 1955.

"SIDNEY A. PAIN"

PROPERTY:

This report concerns unpatented mining claims T.35524, 35525, 35526, 35527, 35528, 35529, 35530, 35531, and 35532, in the township of Torrington, which is just east of the south end of Lake Timagami, in Northern Ontario. These claims were recorded at Hanleybury 29th September, 1954.

ACCESS:

The property is located in the northern part of Cross Lake. Parts of the mainland are included within the property boundaries, but the main showing and the shaft are on an island within claims 35526 and 35527.

A plane equipped with floats could land here during times of suitable air and water conditions. At present the best approach is by boat from Timagami, a station on the Ontario Northland Railway. Tugs, landing craft, and launches are available at Timagami, and the journey can be made within three hours, down Lake Timagami, through the river into Cross Lake, a distance of twenty-eight miles. No. 11 Highway passes about nine miles east of the lake, and for any expanded development the existing trails could be improved for truck traffic.

A main transmission line of the Hydro-Electric Power Commission of Ontario passes about eight miles east of this property, but consideration could be given to the use of diesel generated power.

Ample water is available, and the area is well timbered. The property is within a timber reserve, but arrangements can be made with the Province or the lessee of timber rights.

GEOLOGY:

The consolidated rocks on this property are greywacke and impure quartzites of the lower group of the Cobalt sediments. These measures have a more or less vertical attitude, and some vertical shearing can be observed in a general north and south direction. At one point on the south-east shore of the island there is a small outcrop of diabase. A large mass of diabase occurs north of, and in the north-western corner of, Torrington township, and another small outcrop is known farther south on the shore of Cross Lake.

In general it may be said that the property lies along the southern boundary of that large massif of sediments and diabase sills, around the margins of which are located the silver, ruins of South Lorrain, Cobalt, and Gowanda, and the immediate district shows good mineralization. Eight miles to the north-west of Cross Lake the Timagami Mining Company is preparing to mine high-grade copper ore for direct shipment to a smelter, and interests connected with the same company, and with Ventures, have for two years now been exploring a large property with a potential of nickel and copper.

HISTORY:

This particular property appears to have been discovered in 1907, when attention was undoubtedly focussed there by the discovery of a vein in surroundings that closely resembled the newly discovered silver mines of Cobalt.

An inclined shaft was sunk, following the vein, and it is reliably reported that some small shipments were made to a smelter of a sulphide ore containing copper and lead, with some gold and silver values.

This small operation ceased, and the property lay idle with the shaft flooded until May, 1955 when it was de-watered for examination, at which time I was present.

DEVELOPMENT:

The early discovery was made in a pit at the edge of the lake, on the island, and a shaft was sunk on an incline of 40° and a bearing of 210° to a depth of 76 feet on the incline. Another pit 300 feet north from the shaft shows a flat lying quartz vein, about 12 inches wide, with some chalcopyrite mineralization, and this could indicate a parallel occurrence.

The vein in the shaft strikes approximately east-west with a dip to the south of 40°, and shows a slight plunge, or tilt, downwards to the east. It consists almost entirely of quartz and varies from 4 inches to 24 inches in width. The wall rock throughout is Cobalt greywacke, showing some pronounced north-south shearing, and some carbonate stringers were noted. At one place in the shaft the hanging wall had been broken into, and two other veins were disclosed, one of 24 inches and the other of 15 inches in width, but no drifting had been done on these. It was evident that good mineralization had been encountered in the shaft, judging from the lumps of high-grade ore found lying in the muck, consisting of copper and galena, and some was observed on the dump.

Heavy mineralization of pyrite, chalcopyrite, and galena was noted at two points at the bottom of the shaft, and samples from these assayed as follows:—

Across 15 inches

Gold 0.03 oz.; Silver 2.26 oz.; Copper 5.03 %; Lead 2.39 %.

Giving a gross value of \$45.80 per ton at current prices.

Across 18 inches

Gold 0.01 oz.; Silver 2.12 oz.; Copper 0.35 %; Lead 4.99 %.

Giving a gross value of \$18.90 per ton at current prices.

SUMMARY AND RECOMMENDATIONS:

Very little work has been done here, in an isolated spot that has escaped attention in recent times, but it is evident that there are strong veins occurring under conditions that justify the assumption that more ore comparable in grade to the above samples will be found.

In a separate letter to the Company I have outlined a program of diamond drilling of a preliminary nature, amounting to approximately 3,000 feet. This work can be extended in the light of information secured.

This is an interesting prospect, and I strongly recommend that the above work be carried out.

1st June, 1955.

"SIDNEY A. PAIN"

Cross Lake Mining Company Limited

Balance Sheet

AS AT MAY 13, 1955

ASSETS

Cash on hand	\$	5.00
Mining claims, at valuation placed on 800,000 shares of the company's capital stock issued therefore		80,000.00
<i>Deferred expenditures:</i>		
Manager's salary	\$	1,000.00
Organization expenses—estimated		5,500.00
		6,500.00
		\$ 86,505.00

LIABILITIES AND CAPITAL

Due to manager of company	\$1,000.00	
Estimated liability for organization expenses	5,500.00	
		6,500.00
<i>Capital stock:</i>		
Authorized: 4,000,000 shares, par value \$1.00 each		
Allotted as fully paid: 800,005 shares		
For cash:		
5 shares	\$	5.00
For mining claims:		
800,000 shares	\$800,000.00	
Less: Discount	720,000.00	
		80,000.00
		80,005.00
		\$ 86,505.00

Approved:

A. A. LESSARD, Director

A. G. MacKENZIE, Director

AUDITORS' REPORT

We have examined the balance sheet of Cross Lake Mining Company Limited as at May 13, 1955. Our examination included a general review of the accounting procedures and such tests of accounting records and other supporting evidence as we considered necessary in the circumstances.

In our opinion the above balance sheet is properly drawn up so as to exhibit a true and correct view of the state of the company's affairs as at May 13, 1955 according to the best of our information, the explanations given to us and shown by the records of the company.

FISHER, GORDON & COMPANY,

Chartered Accountants

Toronto, Ontario,
May 18th, 1955.

COMMODITY: *Copper* *Lead* *gold* *silver* CO. TP. *Torrington* LONG. LAT. *45 15*

NAME OF OCCURRENCE: SINGLE LOT, CONCESSION, CLAIM OR LEASE, ACREAGE
 COMPOSITE
 PARTIAL

LOCATION: GEOGRAPHIC NTS UTM

HISTORY OF OWNERSHIP: EXPLORATION AND DEVELOPMENT PRODUCTION

CROSS LAKE MINING COMPANY, LIMITED — *not mentioned (1166)*

Location Torrington township, island in Cross Lake; claim T.35527. (*Cross Lake Silver Mfg. Co. - address and status unknown*)

Metals Present Copper, lead.

Development Inclined shaft sunk on vein for 76 feet down the dip (about 1908). Shaft dewatered and sampled; four diamond-drill holes from surface. *T 13*

Geology The vein in the shaft has a northwest strike and dips to the southwest at 40 degrees. It consists almost entirely of quartz, erratically mineralized with sulphides, and ranges from 4 to 24 inches in width. A short heading in the hanging wall of the shaft exposes two parallel veins of similar magnitude. The wall rock throughout is Cobalt greywacke cut by carbonate stringers and showing pronounced north-south shearing. There is a small outcrop of diabase (Nipissing(?)) on the south shore of the island.

Dimensions and Grade Heavy mineralization of pyrite, chalcopyrite, and galena was noted at two points at the bottom of the shaft, and samples from these assayed as follows: copper, 5.03 percent; lead, 2.39 percent; gold, 0.03 ounces per ton; and silver, 2.26 ounces per ton across 15 inches; copper, 0.35 percent; lead, 4.99 percent; gold, 0.01 ounces per ton; and silver, 2.12 ounces per ton across 18 inches. (S. A. Pain, June, 1955.)

References O.B.M., Vol. XIX, 1910, pt. 2, p. 131.
 Northern Miner, Dec. 1, 1955.

PRODUCER , PAST PRODUCER , PROSPECT

MAJOR GANGUE MINERALS

RESERVES (DATE AND AUTHORITY)

REFERENCE	HOST	ORE CONTROL	ORE FABRIC	DATE
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Cross Sections of shaft
showing quartz veins in black

Scale 1 inch = 10 FEET

At - 13 Ft.



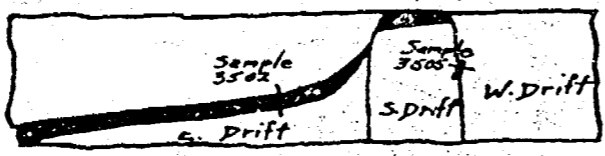
E

At - 33 Ft.

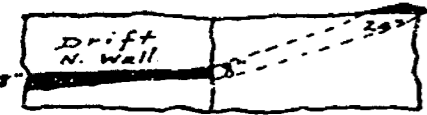


W

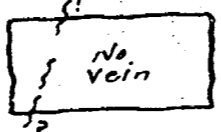
At - 76 Ft.



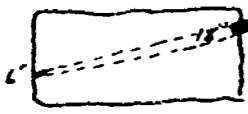
At - 30 Ft.



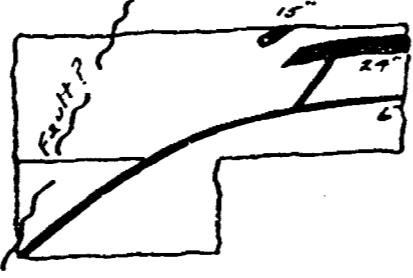
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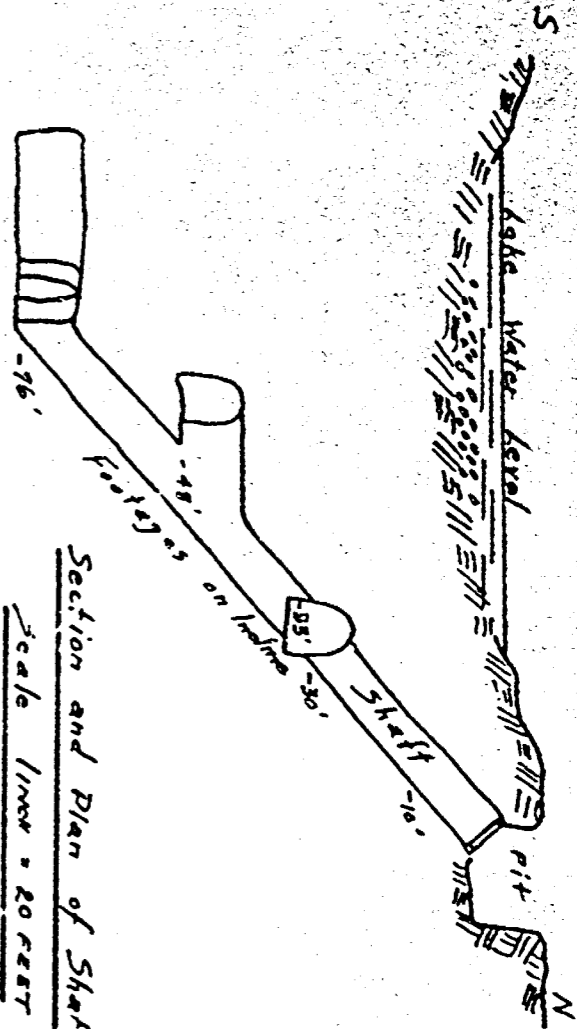
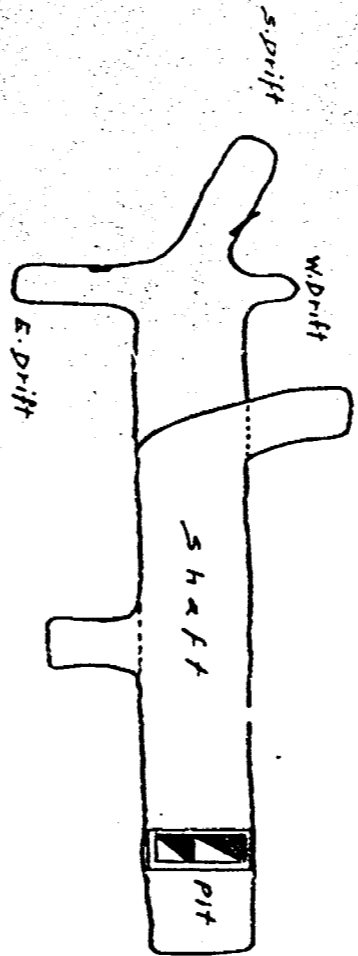
At - 21 Ft.



At - 48 Ft.



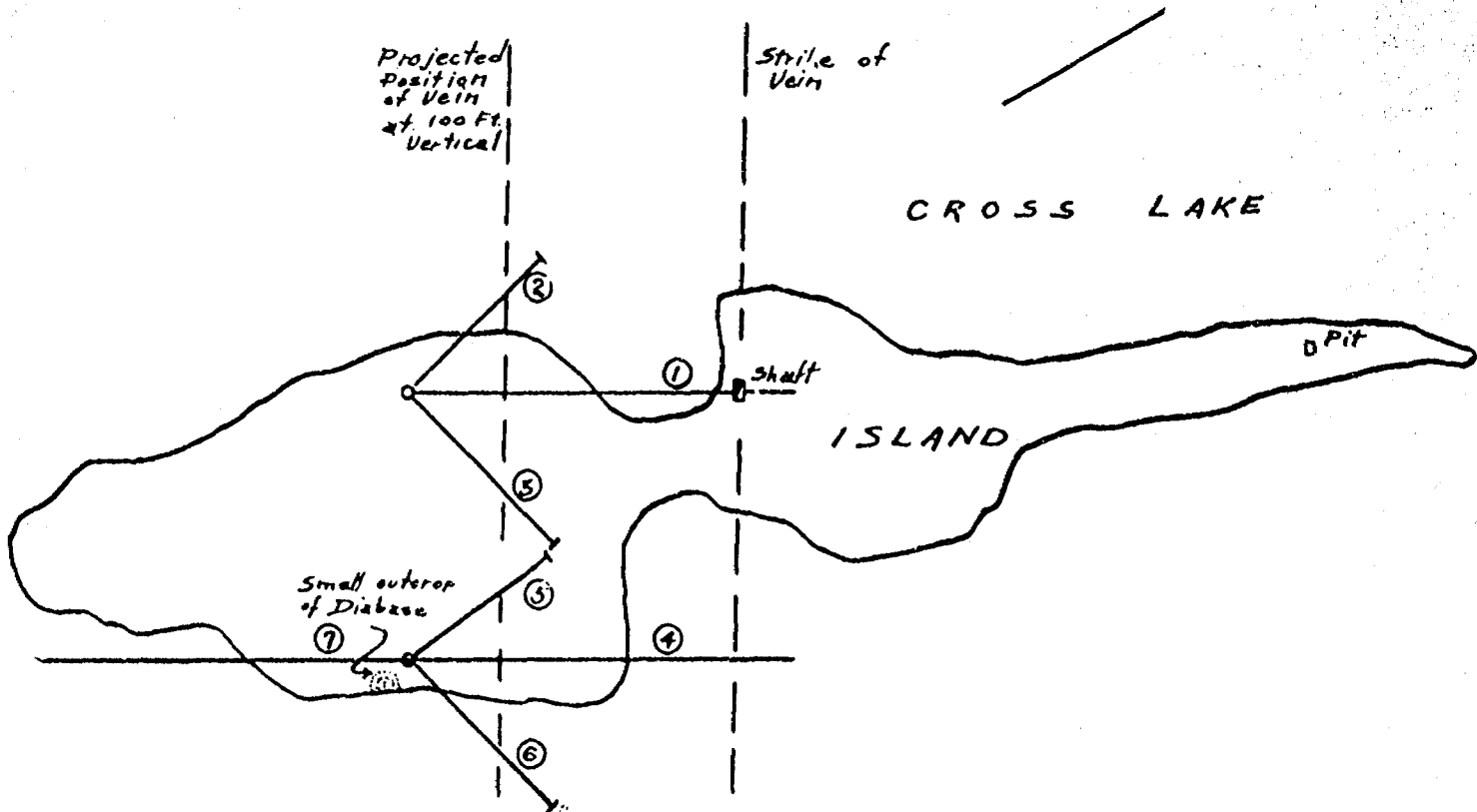
At - 10 Ft.



CROSS LAKE MINING COMPANY LTD.

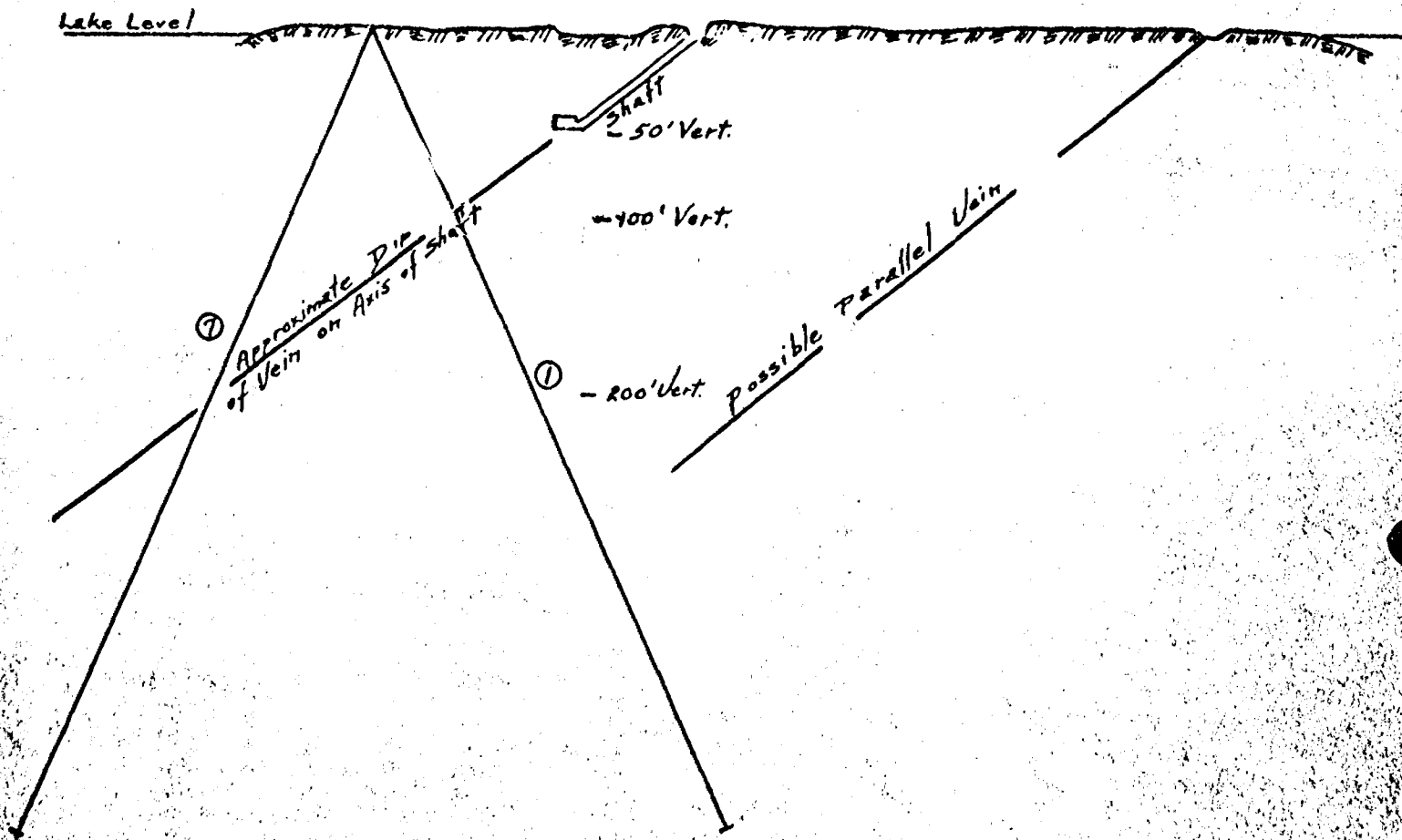
Torrington township

by S. A. Pain



Plan and Section of Island
Showing Proposed Drilling

Scale 1 INCH = 100 FEET



Cross Lake Mining Co Ltd
Torrington Twp

Yates Twp.

1955

4M 3M

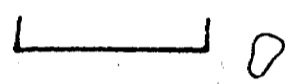
formerly Cross Lake

Cross

35524	35525	35529
35526	35527	35530
35528	35532	35531

Cockburn
LW

SCALE: 1" = 40 CH.



Lake

Niemet 3

Timagami

Lot 8

Lot 6

IBOV