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Att'n - Miss Thompson
Ontario Securities Commission



HALKIN MINES LIMITED

Statutory Prospectus

Clement & Voigt townships

1. The full name of the Company is Halkin Mines Limited and the address of the Head Office is Room 30, 10 Adelaide Street East, Toronto. The Company was incorporated under the provisions of The Companies Act (Ontario) by Letters Patent dated the 29th day of August, 1951. No Supplementary Letters Patent or similar authority for variation of the Letters Patent or otherwise has been issued to the Company.

2. The Officers and Directors of the Company are as follows:

Thomas James Kingston Electrical Engineer	70 Parkview Hill Cres., Toronto, Ontario.	President and Director
William Clement Fisher Esquire	928 Avenue Road, Toronto, Ontario.	Vice-President and Director
William Edward Smith Broker	36 Fairview Blvd., Toronto, Ontario.	Secretary- Treasurer and Director
George Arthur Fallis Barrister-at-law	210 Glencairn Ave., Toronto, Ontario.	Director
Francis Wroblewski Merchant	1 Armbruster St., Buffalo, N. Y.	Director

3. Messrs. Allen, Miles, Fox & Johnston, Chartered Accountants, 159 Bay Street, Toronto, Ontario, are the Company's Auditors.

4. The Crown Trust Company, 302 Bay Street, Toronto, Ontario, is the Registrar and Transfer Agent of the Company.

5. The authorized capital of the Company is divided into 3,500,000 shares, each of the par value of \$1.00, whereof 1,050,005 shares all fully paid up and non-assessable have been issued and allotted.

6. No bonds or debentures of the Company are outstanding or are proposed to be issued.

7. Certificates representing 675,000 shares of the capital stock of the Company are held in escrow with Crown Trust Company, 159 Bay Street, Toronto, Ontario, subject to release only on the consents of the Board of Directors of the Company and of The Ontario Securities Commission and further subject to transfer, hypothecation or other alienation only with the written consent of The Ontario Securities Commission.

8. Particulars as regards shares sold for cash are as follows:

5 shares at \$1.00 each	\$	5.00
150,000 shares at .05 each		7,500.00
150,000 shares at .10 each		15,000.00

No commission was paid or is payable in respect of the sale of the above mentioned shares.

9. No securities of the Company other than shares have been sold or issued to the date of this Prospectus.

10. No payment of cash or shares has been made by the Company for promotional services as such.

11. Particulars of the mining claims held by the Company are as follows:

The Company originally owned 18 unpatented and unsurveyed mining claims in the Township of Clement, District of Nipissing. Of these 18 claims 12 claims had been allowed to lapse, the Company retaining and owning claims Nos. T.31236, 7, 8, 40, 41 and 42. These claims were all purchased from T. J. Kingston for 750,000 shares of the capital stock of the Company of which 75,000 shares were issued as free shares and 675,000 shares were issued as pooled shares. Through the efforts of Mr. Kingston the shares were donated for the purpose of acquiring further claims and the Company now owns claims Nos. T.36847-58 inclusive and T.36793 - 4 which were transferred to it without any cost to the Company, so that the Company is now the owner of 20 unpatented and unsurveyed mining claims.

The following persons and no other participated in the division of the 750,000 shares allotted for the said properties:

	<u>Escrow Shares</u>	<u>Free Shares</u>
Archie Lapierre, Cobalt, Ontario	67,500	7,500
J. E. Grasset & Co. 244 Bay St., Toronto, Ontario	45,000	5,000
L. I. Hall 13 Woodland Park Rd., Toronto, Ontario	180,000	20,000
T. J. Kingston, 70 Parkview Hills Cres., Toronto, Ontario.	382,500	42,500

Mr. L. I. Hall and Mr. T. J. Kingston have transferred to Manse, Miller, Temagami, Ontario, 10,000 shares of free stock and 75,000 shares of pooled stock and to J. R. Bailey, New Liskeard, Ontario, 10,000 shares of free stock and 75,000 shares of pooled stock from their own holdings as consideration for the transfer to the Company of mining claims Nos. T.36847-58 inclusive and T.36793 - 4. The Company procured by staking 30 claims in the Township of Chambers and did preliminary work and certain diamond drilling thereon at a cost of \$6,568.55. These claims were later abandoned.

12. The Company's mining claims hereinbefore referred to are all situate in the Townships of Clement and Vogt, Nipissing District, Province of Ontario. The property can be reached by air a distance of 21 miles or 35 water miles from the Town of Temagami. Both air and boat service are available. The Company owns no plant or equipment. Reference is made to the report of L. J. Cunningham, Professional Engineer of Cobalt, Ontario, dated the 8th day of August, 1956, copy of which is attached hereto and forms part of this statutory prospectus. Mr. Cunningham has recommended a complete geophysical survey, mapping and prospecting of the claims and where warranted testing of the claims by diamond drilling. The amount of work which will be done depends on the Company's finances and recommendations of the Company's engineer and the results obtained from preliminary work.

13. The Company proposes to offer for sale through the medium of registered brokers at a commission not to exceed 15% of the sale price a maximum of 500,000 treasury shares netting the Company a minimum of 12¢ per share. There are no options or rights outstanding and there are no sub-options or sub-underwriting agreements to the knowledge of the signatories hereto.

14. No indebtedness is to be created or assumed which is not shown on the Balance Sheet dated June 30th, 1956 accompanying this prospectus and accordingly no security has been given for such indebtedness.

15. Particulars of the principal business in which each Director and Officer has been engaged during the past three years are as follows:

Thomas James Kingston is an electrical engineer formerly employed by Northern Electric Company Limited and now one of the managers of Kingston, Lee, Watson Co. Limited, dealers in electrical supplies.

William Clement Fisher is retired and was formerly manager of Kresge's of Canada Limited and a director of Preston East Dome Mines Limited.

William Edward Smith is a registered broker carrying on business at 185 Bay Street, Toronto, under the name of William E. Smith.

Francis Wroblewski is a wholesale merchant dealing in coal and Christmas trees, operating in Buffalo, New York, under the name of Francis Wroblewski.

George Arthur Fallis is a member of the firm of Bouck, Hetherington & Fallis, 10 Adelaide Street East, Toronto, Barristers and Solicitors.

16. None of the Directors of the Company was interested directly or indirectly either personally or as a partner in a firm in any of the properties acquired by the Company, with the exception of T. J. Kingston who was instrumental in procuring the staking of the Company's present six original claims.

17. No remuneration has been or will be paid to any Director or Officer in the present fiscal year of the Company.

18. No dividends have been paid by the Company to the date of this prospectus.

19. No person by reason of beneficial ownership of shares in the Company or any agreement in writing known to the signatories hereto is in a position to elect or cause to be elected a majority of the Directors.

20. Vendors' shares may be offered for sale as released from escrow together with any free shares but the proceeds of such sales will not accrue to the treasury of the Company. The Company knows of no arrangement for the sale of Vendors' shares.

21. There are no other material facts.

DATED at Toronto this ^{8th} ~~12th~~ day of ^{August} ~~July~~, A.D. 1956.

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 or reports where required.

Directors and Officers

"T. J. Kingston"

T. J. Kingston

"W. C. Fisher"

W. C. Fisher

"W. E. Smith"

W. E. Smith

"G. A. Fallis"

G. A. Fallis

"Francis Wroblewski"

F. Wroblewski

HALKIN MINES LIMITED

(Incorporated under the laws of the Province of Ontario)

BALANCE SHEET AS AT JUNE 30, 1956

ASSETS

<u>UNPATENTED MINING CLAIMS</u>	\$750,000.00
(On September 7, 1951 eighteen unpatented mining claims were acquired by the company as consideration for the issue of 750,000 shares of capital stock fully paid, and since that date twelve of these claims have lapsed and been abandoned. Fourteen additional claims were acquired by the company free of cost through donations of stock by certain shareholders.)	
<u>PRE-PRODUCTION AND DEVELOPMENT EXPENDITURE</u> (per attached statement)	14,472.87
<u>ORGANIZATION EXPENSE</u>	<u>2,395.75</u>
	<u>\$766,868.62</u>

LIABILITIES AND CAPITAL

<u>ACCOUNTS PAYABLE AND ACCRUED LIABILITIES</u>	\$ 932.17
<u>CAPITAL STOCK</u>	
Authorized	
\$3,500,000. divided into 3,500,000 shares of \$1.00 each	
Issued and outstanding	
750,000 shares for mining claims	\$ 750,000.00
300,005 shares for \$22,505. cash	300,005.00
<u>1,050,005</u> shares fully paid	<u>1,050,005.00</u>
Less - Discount on shares issued for cash	<u>277,500.00</u> \$772,505.00
<u>DEFICIT</u> (per attached statement)	<u>6,568.55</u> <u>765,936.45</u>
	<u>\$766,868.62</u>

Approved on behalf of the Board

"W. C. Fisher" Director

"Francis Wroblewski" Director

Auditors' Report

To the Directors of
Halkin Mines Limited:

We have examined the balance sheet of Halkin Mines Limited as at June 30, 1956 and the statements of pre-production and development expenditure and of deficit for the period from incorporation on August 29, 1951 to June 30, 1956. 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 accompanying balance sheet and statement of pre-production and development expenditure and of deficit present fairly the financial position of the company as at June 30, 1956 and the results of its operations from incorporation on August 29, 1951 to June 30, 1956.
Toronto, Canada, July 12, 1956.

"Allen, Miles, Fox and Johnston"

Chartered Accountants.

HALKIN MINES LIMITED

STATEMENT OF PRE-PRODUCTION AND DEVELOPMENT EXPENDITURE
FROM INCORPORATION ON AUGUST 29, 1951 to JUNE 30, 1956

EXPLORATION AND PROSPECTING EXPENSES - CLEMENT TOWNSHIP

Camp and cookery	\$ 1,861.39
Engineering and administration	571.37
Surface exploration	1,719.21
Diamond drilling	4,119.41
Transportation and travelling	1,406.01
Miscellaneous equipment	929.82
Sampling and assaying	62.40
Workmen's compensation	166.45
Prospecting	94.80
	<u>\$10,930.86</u>

ADMINISTRATIVE EXPENSE

Audit and legal fees	\$ 225.00
Licenses and fees	434.00
Miscellaneous office expense	375.74
Stationery and printing	334.28
Transfer agents' fees	715.54
Executive travelling expense	787.45
Head office salaries	650.00
Miscellaneous taxes	20.00
	<u>\$ 3,542.01</u>

TOTAL PRE-PRODUCTION AND DEVELOPMENT EXPENDITURE

\$14,472.87

STATEMENT OF DEFICIT

FROM INCORPORATION ON AUGUST 29, 1951 TO JUNE 30, 1956

Staking costs and pre-production and development expenditures written
off, on abandoned mining claims in Chambers Township. \$ 6,568.55

DEFICIT AT JUNE 30, 1956

\$ 6,568.55

REPORT
ON
HALKIN CLAIM GROUP
CLEMENT AND VOGT TOWNSHIPS
TEMAGAMI AREA
ONTARIO

INTRODUCTION

The property was visited on the 6th April, 1956 and on the 5th August, 1956. Several pits on claims T.31242 and T.31240 were examined as well as outcrops in the immediate vicinity of the pits.

No attempt was made to examine other portions of the property.

Information was obtained from verbal conversation with R. I. Benner, B.Sc., P.Eng., and from a report of his dated 31 July, 1951 covering part of the same claim group.

Map No. 22h of the Ontario Department of Mines was utilized together with geological data supplied by the offices of the Ontario Department of Mines in Cobalt, Ontario.

LOCATION AND ACCESSIBILITY

The group consists of 20 unpatented mining claims in Clement and Vogt Townships, numbered as follows:

- T. 31236 - 7 - 8
- T. 31240 - 1 - 2
- T. 36847 - 58 inclusive
- T. 36793 and 94.

The property is located 21 air miles or 35 water miles from the Town of Temagami. Air and boat services are available.

No buildings were observed on the property.

The claims form a contiguous block as shown on the sketch map accompanying this report as appendix I.

GEOLOGY

The Township of Clement is almost entirely underlain by Nipissing diabase. Along the east boundary adjoining Vogt Township the diabase makes contact with Cobalt sediments which form a relatively narrow strip paralleling the west shore of the Southwest Arm of Lake Temagami.

The Halkin group straddles this diabase-sedimentary contact with approximately 80 percent of the property underlain by diabase and the remainder underlain by Cobalt sediments.

Zones of quartz-carbonate filled fracturing, containing chalcopyrite, occur within the diabase. General geology is illustrated on Appendix I.

The following description of the showing in claim T. 31242 is taken from a report by R. I. Benner, B.Sc., P. Eng., dated 31 July, 1951 covering part of the same claim group. Quote --

"The No. 1 showing on claim T. 31242 is a quartz vein 60' in width, striking N 70° W, which has been exposed along the north wall for a length of 80' by a rock trench. The contact of the north wall was

L. J. CUNNINGHAM
1956

Halkin Claim Group
GEOLOGY (Cont'd)

- 2 -

exposed over a short length, where the dip appears to be vertical. Fifty-five feet south of the main pit a smaller pit shows the same type of vein material. The south wall was not exposed but the location could be determined within 5'. Trenching, to lengthen the vein in either direction, was not successful due to the heavy overburden.

The vein material from both pits contains chalcopyrite; no other metallic mineral was noted, except for a thin skin of surface alteration where the chalcopyrite has been altered to bornite. A considerable amount of chlorite is present in the vein. A sample of the material removed from the main pit and piled along the edge over the 80' length was taken at 3' intervals and gave an assay of 2.6% copper." Unquote.

The writer's examination supports the description as given Mr. R. I. Benner with the following additional observations:

- 1) The occurrence can best be described as an irregular zone of quartz-carbonate filled fracturing which in places has been subjected to brecciation. Some sections show a crystalline brown weathering carbonate gangue identified as ankerite and angular fragments of altered diabase and of a black highly chloritic rock.
- 2) The strike of the zone is irregular but is considered to be approximately west.
- 3) The dip is difficult to determine but surface exposures and diamond drilling suggest a steep dip.
- 4) Work to date has indicated a zone with a minimum length of 100 feet and a width of approximately 50 feet.
- 5) The chalcopyrite mineralization occurs erratically in fine and coarse dissemination throughout the zone.
- 6) During 1951 three drill holes as shown on Appendix 2 were completed in the vicinity of the pits on claim T. 31242. Holes 1 and 2 extended the zone as indicated on surface to a depth of approximately 25 feet. Sparse chalcopyrite mineralization was encountered. Drill hole No. 8 was not extended far enough to reach the zone.

Approximately 100 feet west of the shore of the Southwest Arm of Lake Temagami in the SE $\frac{1}{4}$ of claim T. 31240 a quartz vein 5' wide, mineralized with chalcopyrite and striking west with vertical dip, was observed by the writer.

During 1951 four drill holes as shown on Appendix 2 were completed to test this vein. The drilling suggests not a vein but rather a zone of quartz-carbonate filled fracturing containing erratic disseminations of chalcopyrite. The vertical dip and westerly strike were substantiated by this drilling.

In the NE $\frac{1}{4}$ of claim T.31240 a third quartz vein with chalcopyrite mineralization was seen lying in close proximity to the sedimentary contact. Being only partly exposed it was impossible to determine the width of the structure but the strike appeared to be north-east. One shallow diamond drill hole during 1951 located a 2 foot quartz-carbonate fracture zone striking northeast, dipping vertically and erratically mineralized with chalcopyrite.

A total of eight shallow drill holes with a footage of 1176 feet were completed as shown on Appendix 2 during 1951. There is no evidence or information to suggest that the property was mapped or investigated by geophysical means.

SUMMARY AND CONCLUSIONS

- 1) Three widely spaced zones of quartz-carbonate filled fracturing containing chalcopyrite occur in diabase on the Halkin Group.
- 2) Limited trenching and diamond drilling indicate that two of these zones have impressive widths of approximately 50 feet and 30 feet respectively and contain erratically disseminated chalcopyrite.
- 3) Temagami Mining Company in the adjoining Township of Phyllis has proven that economic deposits of copper-nickel-pyrite ores exist in the area. General acceptance is being given to the theory that these ores are of Nipissing age -- that is of the same age as the cobalt-silver ores of the Temiskaming area. This being the case, then the Keewatin rocks are not necessarily the only host rock for such ores. Given strong structures as possible channels for orebearing solutions, mineral deposits may be found in rocks older than the diabase or in the diabase itself.

With prevailing encouraging copper prices and having strong copper bearing structures on the property, the writer strongly recommends further exploration of the Halkin claims.

RECOMMENDATIONS

- 1) Map and prospect the claims.
- 2) Carry out geophysical test work in the vicinity of the showings, utilizing magnetometer and electro-magnetic equipment to determine if the quartz-carbonate fracture zones are detectable by such means. If favourable, complete a geophysical survey as suggested by the test work.
- 3) Test the results of (1) and (2) where warranted by diamond drilling.

Signed, "L. J. Cunningham"

L. J. Cunningham, B.Sc., P.Eng.,
Mining Engineer

Dated at
Cobalt, Ontario
8th August, 1956.

I, Leonard J. Cunningham, HEREBY CERTIFY

1. That my address is Box 21, Cobalt, Ontario.
2. That I am a Mining Engineer, being a graduate of Queen's University with a degree of B.Sc., in the year 1943.
3. That I am a member of the Association of Professional Engineers of Ontario.
4. That I have not, and never had, any interest directly or indirectly in any of the properties or securities of the Halkin Mines Limited upon which my said report is to be filed with the Ontario Securities Commission, nor do I expect to receive any such interest.
5. That the information in my report covering 20 claims in Clement and Vogt Townships, Ontario, is based upon government maps and reports and the writer's personal knowledge of the area and a visit to the property on the 6th of April, 1956 and the 5th of August, 1956.

Signed,

"L. J. Cunningham"
L. J. Cunningham, P. Eng.,
Mining Engineer.

Dated at
Cobalt, Ontario,
8 August, 1956.

NOTE ON HALKIN MINES GROUP, CLEMENT TWP.

Temiskaming Mining Division

By R. THOMPSON

Nov. 28/56

INTRODUCTION

The Halkin's group comprises some twenty claims for the most part in Clement Township but with a few in Vogt township adjoining to the east. The Halkin's camp is on the southwest arm of Lake Temagami, about one mile outhery from the northwest corner of Vogt township. The showing is chalcopryite in a quartz-carbonate vein enclosed in Nipissing diabase; it is in claim T-31242 and is some 3/4 mile westerly of the camp to which it is connected by a poor trail. With L. J. Cunningham, consultant for the mine, the writer paid a short visit on Nov. 6, 1956.

HISTORY

The writer does not know when the original discovery was made. In 1951 a minor exploratory program was carried out under the direction of Ralph Banner; this included some sampling and trenching. In 1956 4 men with a Pack-sack drill carried on trenching and drilling. This work has now stopped and there appear to be no plans for future work.

GEOLOGY

A. E. Barlow, on G.S.C. Map 606 shows the greater part of Clement Township to be underlain with Nipissing diabase. At the Halkin's campsite in Vogt township on the lake shore, the writer noted Cobalt sediments overlying fine grained granite. This does not appear to be shown on any existing map. A few hundred feet westerly of the camp is Nipissing diabase but the contact was not seen and it is not known if it overlies or underlies the Cobalt conglomerate. The diabase occurs along the trail to the showing. All diabase seen was quartz diabase. It shows marked alteration and at the showings these extreme variations in composition, such as occur in the quartz rich end of the Nippissing diabase series of intrusives.

ECONOMIC GEOLOGY

The showing is quartz vein with some carbonate in Nipissing diabase. The work done to date has not revealed accurately the shape and attitude of the vein, but it would appear to be a gently dipping quartz lens plus some highly irregular and nearly vertical small quartz veins. The lens might strike west to north and dip at, say 15 to 30 degrees to the southwest. The dimensions of the lens might

be some 120'X70' with a maximum thickness of some 12'. In the lens chalcopyrite occurs very capriciously and very careful systematic sampling would be required to give an accurate grade; without such sampling misleading results could easily be obtained. The dump of a water filled pit, with estimated depth of 12 feet, showed plentiful chalcopyrite. The company reports that sampling of this dump gave a copper content of 2.6%. It does not seem possible to estimate the grade of the vein as a whole but it did appear to be much below ore grade. No valuable mineral other than chalcopyrite was seen. All the chalcopyrite of importance was in the vein, there being only very sparse mineralization in the diabase.

A peculiar breccia with quartz fragments occurs in the north part of the showing; its significance is not understood.

The drilling and trenching seem sufficient to de-limit the extent of the lens but apparently not much prospecting had been done in the vicinity. Two other veins are known on the group. They are smaller and of less importance. This showing appears to belong to the gently dipping type of vein which occurs in close association with Nipissing diabase. Other examples of this type include Obabika Mines in Belfast township and Delhi Mines in Delhi twonship. To date no productive mines have been found on this type of occurrence in so far as the writer knows.

Sd/- R.T.

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TO FOLLOW**

NOTE ON HALKIN MINES GROUP, CLEMENT TWP.

Temiskaming Mining Division.

BY

R. THOMSON.

Nov 29/56

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and there appear to be no plans for future work.

GEOLOGY

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ECONOMIC GEOLOGY

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reports that sampling of this dump gave a copper content of 2.6%. It does not seem possible to estimate the grade of the vein as a whole but it did appear to be much below ore grade. No valuable mineral other than chalcopyrtie was seen. All the chalcopyrite of importance was in the vein, there being only very sparse mineralization in the diabase.

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R.T.

HALKIN SYNDICATE

On Dec. 1, 1951 - In conversation with Mr. Raeburn he spoke of work done on these claims; diamond drilling, which is presently being carried on.

He mentioned very good showing on surface, but that at very shallow depth - say 12 or so feet I understood - it cut out and only a very large quartz vein.

He mentioned a pit some 10 feet deep.

About a month ago Mr. Hall (associated with Preston East Dome) mentioned the work going on here. Apparently he is closely associated with it.

SUD-N/AFTON - For report on Claims of Emerald mining syndicate in this twp. see under T-S/SC Emerald Mining Syndicate, covering geophysical and geological work on the property.

Aug.15/56 - L. J. Cunningham said he had just examined the showing and apparently not carried away with enthusiasm.

Showing in N. db. (from highly altered specimens seemed coarse qtz. db.) On Barlow's map - very large area of db.

Strike of showing - East-West.

Dip - not clear - might be vertical.

I asked if it belonged to type of gently dipping qtz. vein near contact of diabase but not certain.

Chalcopyrite very erratic apparently.

HALKIN SYNDICATE.

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TO FOLLOW**

Halkin Syndicate

ca Dec 1, 1951 - In conversation with Mr. Raeburn he spoke of work done on these claims diamond drilling, which is presently being carried on.

He mentioned very good showing on surface, but that at very shallow depth ^{say 12 or 20 feet, undisturbed} it cut out and only a very large quartz vein.

He mentioned a pit some 10 feet deep.

About a month ago Mr. Hill (associated with Preston East Dome) mentioned the work going on here. Apparently he is closely associated with it.

Aug 15/56 L. J. Cunningham said he had just examined the showing and apparently not carried away with enthusiasm.

Dec 1/51

Halkin Syndicate

I c $\frac{6N}{1W}$

Sud - N
AFTON

For report on claims of Emerald Mining
Syndicate in this township see under

T.S.S.
SC

Emerald Mining Syndicate

covering geophysical and geological
work on the property.

Aug 15/56 p 2

Showing in N ab. 1 from highly altered specimens seemed coarse gr. db.

On Barlow's map - very large area of db. strike of showing. East-West

Dip - not clear - might be vertical.

I asked if it belonged to type of gently dipping gr. vein near contact of diabase but not certain.

Chalcopyrite very erratic apparently.

3843

SP 3 - C.G. db. with reddish
feld. seg. veinlet $2\frac{1}{2}'' \times 2''$
in show -

3844

SP 4. SE corner main pit
"granitized db"

||| gv with cpy
||| gv with cpy

3843

SP. 3 - C.G. DB WITH REDDISH FELD. SEG.
VEINLET $2\frac{1}{2}'' \times 2''$

3844

SP. 4 - SE CORNER MAIN PIT
"GRANITIZED DB"

700 6/50 p-1 Map of

E

3845

SP 5 DDH 6 at 6'

Very coarse fleshy cold db. in places epidote & carbonate (?)

also Qtz. (calub) (?) pink veins with chlorite - also cpy.

22 - 25 Feldspathic med. gr.

27 3846 T-545

25 - 30 More dark

3847 T-546

30 - 50 Qtz. 43 ft.

More feldspathic little dissemination cpy. in places
some dark.

**DUPLICATE COP.
POOR QUALITY ORIGINAL
TO FOLLOW**

3845
sp 6

2571 to at 6'

very coarse fleshy cold' db.

in places spongy + cherts

also qtz ^{calciferous} veins with chert
also sp 11

22 - 25 feldspathic med f.

27 sp 6 (3846) T-545

28 - 30 - more dark

30 - 50 ^{sp 11 434 447} med feldspathic
with chert
in places more dark

2006/56 p. 2

sp 6

E

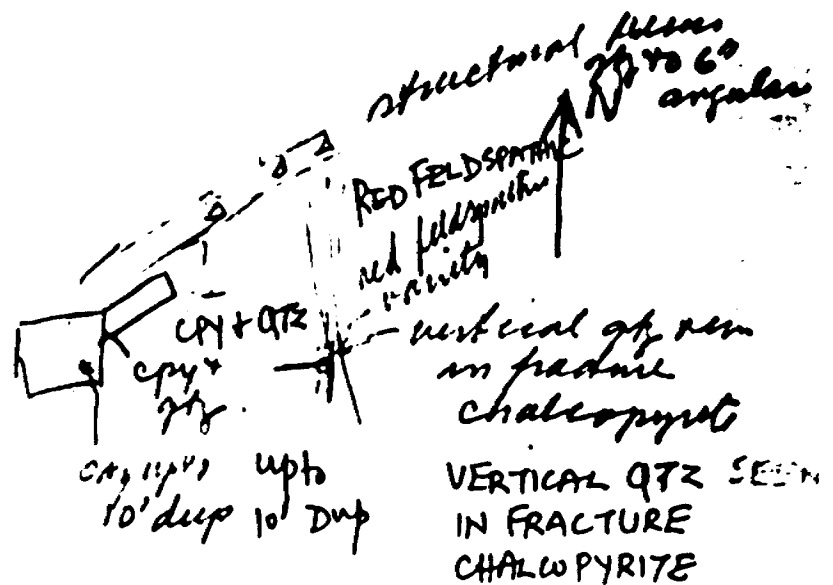
Today with Len J. Cunningham visited the Halkin showing. The first item of significance was the occurrence of basal Cobalt sediments overlying a fine gr. granitic rock at the Halkins camp. This is not shown on existing maps. (See under Vogt Twp. Soc 3 MS6N7W)

The diabase (believed Nip) occurs a few hundred feet westerly of the camp but contact not seen - not searched for. Where the db. occurs West of Camp it was clearly recognizable as diabase. In the offset to the new quartz vein noted that the db. showed excessive alteration - development of hornblende and epidote throughout. It shows varied texture in places and is quartz diabase. at the quartz vein the swly dip is probably significant and as is also the development of dark fine gr. rock presumably chlorite.

Walking along the trail to the main showing the overburden was plentiful - a brownish boulder clay.

At the showing -no plan has been made showing the geological relationships :

**DUPLICATE CO.
POOR QUALITY ORIGIN.
TO FOLLOW**



up to 10' deep 10' Dup

DDH - shows
qtz at all levels
none of abnormal
varieties
DDH SHOWS QTZ DB
ALTERED - NONE
OF ABNORMAL
VARIETIES

BARREN
QTZ. VEIN
qtz vein
curious
auth

From the DD core it seemed probable that the unusual varieties of diabase were developed closely - what seemed to be quartz developed in situ seems shown by the specimens collected. The practical dissemination of original dark minerals concomitant with the development

Sp 8 3848 T-547

DDH 3 at 62.5
at SW side in mnd

Normal ab.

SP. 8 3848 T-54-7

DDH 3 AT 62.5 MIRE
DDH AT S. W SIDE IN NORMAL DB

Sp 9 3849 - T-548

DDH No 8 at 68

dark variety of db. outside

quartzite feldspar zone

SP 9 3849 - T-548

DDH No. 8 AT 68

DARK VARIETY OF DB. OUTSIDE
QUARTZITE FELDSPAR ZONE.

NOV 6/56 - PZ ³ Map ab

E

of dark green scaly chlorite seemed an important process here.

From sampling of dump an average assay of 2.6% Cu is reported but seems to be grossly high.

The part played by structural breccia not known. Matrix seemed peculiar as though unknown diabase in past. Can it be renewed intrusion after quartz? Suggested a W of N. vertical fracture with quartz on East side and a SW by dipping huge len of quartz say upto 10' thick but no accurate info.

Pack sack drill used. 4 men - last summer - with trenching. Showing appears of no economic value.

Interesting that one end result of differentiation (?) seems to be quartz and chalcopryrite with no aplite (at least in dike form).

L.J.C. showed me piece of core - broken mylmitized (?) db. with epidote - and pink carbonate in irregular pockets.

No extensive work done around showing I understand.

Apparently whole db. intrusive surcharged with volatiles - very extensive shut (?) shown on map.

(?) dipping quartz might be 50' long by 30' wide.

L.J. C. said showing in Claim T-31242 3/4 mile to 1 mile West of camp on L. Temagami in Vogt twp.

Nov. 6/56

HALKIN MINES

**DUPLICATE COPY
POOR QUALITY ORIGINAL
TO FOLLOW**

To-day with Sen J. Cunningham
visited the Halkin Shovring. The first
item of significance was the occurrence
of basal Cobalt sediments overlying
a fine gr. granitic rock at the Halkin
camp. This is not shown on
existing maps. See under Vogt map Sec 3MS6N7W

The ~~term~~ The ~~dyke~~ diabase ^(believed map) occurs a
few hundred feet west of the camp
but contact not seen - not searched
for. When the db. occurs west of
camp it was clearly recognizable
as diabase. In the offit to the
new quartz vein noted that the
db. showed excessive alteration -
development of hornblende & epidote
throughout. It shows varied
texture in places and is quartz
diabase. At the quartz vein

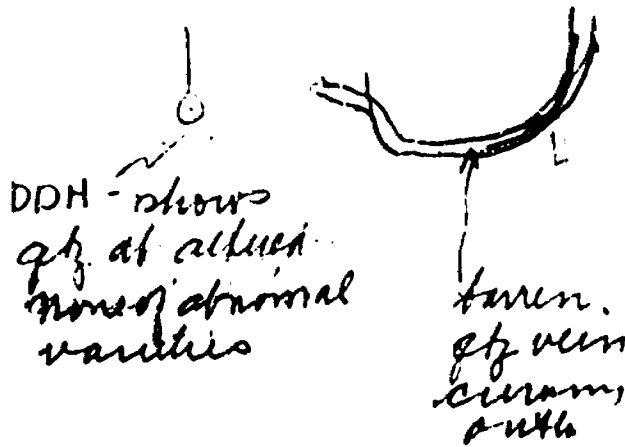
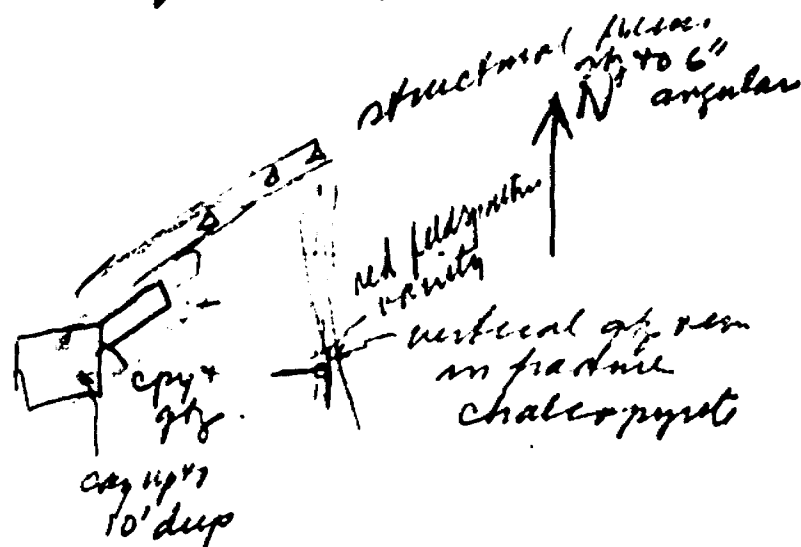
Nov 6/56 p-1

Halkin Mines T

the SWly dip is probably significant
 as is also the development of dark
 fine gr. rock presumably chlorite.

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 plentiful - a brownish boulder clay.

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From the DD core it seemed probable that the unusual varieties of diabase were developed closely - what seemed to be quartz developed in situ seems shown by the specimens collected. The practical determination of original dark mineral concomitant with the development of dark green scaly chlorite seemed an important process here.

From sampling of dump an assay array of 2.6% Cu is reported but seems to be grossly high.

The part played by structural process not known. matrix seemed peculiar as though unbroken diabase in part. Can it be renewed intrusion after quartz suggested a W of N vertical fracture with quartz on East side and a SW by dipping huge lens of quartz say

Nov 6/50 p-3
up 4' 10' thick but no accurate info.

Hutton Mine T.C.

The significance of the structural
breccia of quartz not understood
sp 3850 - of this. The very
angular quartz fragments
appear to be enclosed in a
diabase matrix which does not
seem to show sufficient brecciation
to explain the breakage in the
quartz. Much of the quartz in
the vein material shows brecciation
earlier than the chalcopryite.
sp 3851.

It seems probable that the main
part of the vein has a strike West
of North and a gentle Wly dip but
this is ^{sample structure} interfered with by the
vertical curving irregular vertical
veins.

L. J. C. concluded that showing
dip with further work - above ground
Nov 13/56 - interpretation G.

Pack sack drill used. 4 men - last summer - with trenching.

Showings appears of no economic value.

Interesting that one end result of differentiation seems to be gtz & chalcopyrite with no apatite (at least in dike form).

L.J.C. showed me piece of core broken mylonitized sl. with apatite - & pink carbonates in irregular pockets.

No extensive work done around showing I understand.

Apparently whole sl. intrusive surcharged with volatiles - very extensive sheet shown on map.

Grinding dipping quartz might be 50' long by 30 feet wide.

L.J.C. said showing on Claim T 31242
3/4 mile to 1 mile West of Camp on S. Longhorn
NW 1/4 Sec 4 in Dogt. Swamp.

Halkin Mine T.C.

E. Nip. db.

Seems clear that N.db. very varied in composition with the variations such as one would expect from the quartz rich end of this series. It is suggested that part of the large list of Keewanawan (?) intrusive given by Bruce in James Pardo, McNish (?) and Dana Twp (ODM Vol.41, pt.4, 1932) are really part of this series.

En route from Halkin camp to Halkin show collected :

- Sp.3842 : Close to eastern contact which not seen. Colour Index say 80-90 sparkling rock - noteworthy that this dark black or greenish black instead of the gray colour characterstic of fine grained varietes near Cobalt.
- Sp. 3843 From the side of trail shows more differentiation & a reddish feldspar segregation vernut (?) 2 1/2"x2" close by
- Sp. 3844 at main showing-approximates red rock. Pink feldspathic rock with well shaped (?) feldspar (????????????????????) Minor cpy drissim (?) - Part of sample dark fine gr. more normal. Colour index say 10-25 in. pink part of sp. similar to 3847
- Sp. 3845 DDH 6 at 6' - Extreme differentiation of db. Pink feld. to 8mm & very fresh.
- Sp. 3846 DDH 6 at 27 ft.
- Sp. 3847 DDH 6 at 43 ft. - similar to 3844
- Sp. 3848 T 547 - DDH 3 at 62.5 ft.
- Sp. 3849 T-548 - DDH No. 8 at 68 ft.

The above samples seem to outline the source of differentiation in the db. There seems to be no question that all are Nab. using that in a group sense..

Nov. 12/56

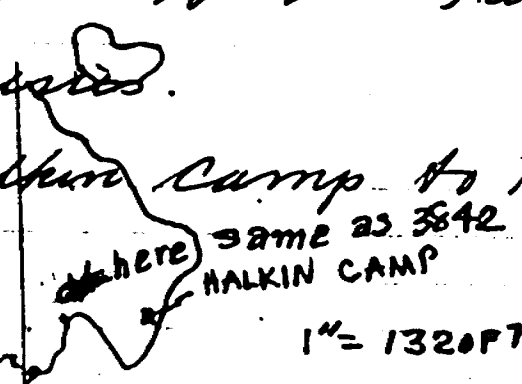
**DUPLICATE COPY
POOR QUALITY ORIGINAL
TO FOLLOW**

E

Map. db.

Seems clear that N. d. very varied in composition with the variations such as one would expect from the quartz rich end of this series. It is suggested that part of the large list of Keweenaw Keweenawan intrusive given by Bruce in James Pardo, McMurk and Dana Trwp. (ODM vol 41, pt 4, 1932) are really part of this series.

En route from Halkin Camp to Halkin show collected:



sp 3842 - T-549 sp 3842

close to Eastern contact which not seen. Colour Index say 80-90 sparkling rock - noteworthy that this dark black or greenish black instead of the gray colour characteristic of fine grained varieties near contact.

sp 3843

from the side of trail shows more differentiation & a reddish feldspar segregation veinlet 2 1/2" x 2" close by.

7/12/56 p-1

Map. db.

E. Halkin Mine GN

sp 3844

at main showing - see Nov 6/Rep-1
approximate red rock
Pink feldspathic rock with well shaped
feldspar at the bright glassy base
4 mm long.
minor cry. druse
Part of sample dark fine gr. more
normal
Colour index say 10 - 25 in pink
part of sp
Shoulder to 3847

sp. 3845

SDH 6 at 6'
Extreme differentiation of at
Pink feld to 8 mm very fresh.

~~sp 3846~~ 3846

SDH 6 at 27 ft . see Nov 6/56 p. 2

3847

DBH 6 at 43 ft. - see Nov 6/56 p-2
similar to 3844

3848 - T-547

DBH 3 at 62.5 ft see Nov 6/56 p-23

3849 - T-548

DBH No 8 of 68 see Nov 6/56 p-73

The above samples seem to outline the course of differentiation in the db. There seems to be no question that all are Nab. using that in a group sense.

TIMISKAMING MINING DIVISION

Number

Name HALKIND MINES LTD.

LOCATION CLAIM 31242 - CLEMENT TWP.

OWNERSHIP HALKIN MINES LTD.

PRINCIPAL METALS
PRESENT COPPER

DEVELOPMENT Numerous shallow trenches and 14 shallow
drill holes using Pack sac drill - See attached Map

GEOLOGY Quartz Carbonate Zone in Nipissing Diabase which
has been partially brecciated and mineralized with
chalcopryite and pyrite - a Flat lying mass.

PRODUCTION Nil (Production figures, if any, will be supplied
by the O.D.M. Statistician).

ORE RESERVES OR
DIMENSIONS AND
GRADE OF BODIES NO RESOURCES - Work to date outlines a quartz-
Carbonate mass 150' long x 75' wide and thickness
of upto 30' A surface area of 80'x30' has been
mineralized (est. 1 $\frac{1}{2}$ -2 $\frac{1}{2}$ Cu) but drilling does not
suggest (?) mineralization continues down from
surface.

REMARKS Dr. Thomson visited this showing with me on
6 Nov./56.

Sd/- L. J. Cunningham

Please return to :

Resident Geologist,
Ontario Department of Mines
Box 48
Swastika, Ontario.

**DUPLICATE COPY
POOR QUALITY ORIGINAL
TO FOLLOW**

NAME

Halkin Mines Ltd.

LOCATION

CLAIM 31242 CLEMENT Twp

OWNERSHIP

— Halkin Mines Ltd.
Public Company

PRINCIPAL METALS PRESENT

— Copper

DESCRIPTION

- NUMEROUS SHALLOW TRENCHES
and 14 shallow drill holes using PACKSAC Drill
See ATTACHED - MAP.

COLOR

- Quartz CARBONATE ZONE in Hippising DIABASE
which has been partially brecciated and mineralized
with chalcopryite & pyrite A flat lying MASS.

PRODUCTION

(Production figures, if any, will be supplied by the
O. D. S. Statistician)
- NIL

**ORE RESERVES OR DISPOSITIONS
AND GRADE OF ORES**

- NO RESERVES. - WORK TO DATE

UNTESTED RESERVES

outlines a quartz-carbonate mass 150' long x 75' wide
and thickness up to 30 feet. - A surface
area of 80' x 30' has been mineralized (est. 1 1/2%
Cu)

REMARKS

but drilling does not suggest than mineralization
continues down from surface

Remarks

DR. Thomson
visited this showing
10.11.56 on 6 Nov/56
D.P.

(Signed).....

Please return to:
Resident Geologist,
Ontario Department of Mines,
Box 48,
Sudbika, Ontario.

Continued

Halkin Mines Ltd.

Clement & Vogt townships

ANGLE AND DEPTH OF D. DRILL HOLES

HOLES					ANGLE	Hole		
# 1	-	0	-	23'	Quartz	40°	1	C
# 2	-	0	-	60'	Diabase	60°	2	C
# 3	-	0	-	10 1/4'	Diabase	39°	3	C
# 4	-	0	-	12'	"	41°	4	C
# 5	-	0	-	30'	Diabase	74°	5	C
# 6	-	0	-	21'	Quartz	50°	6	C
# 7	-	0	-	12'	Diabase	55°	7	C
# 8	-	0	-	92'	Diabase	55°	8	C
# 9	-	0	-	24'	Diabase	50°	9	C
# 10	-	0	-	92'	Diabase	55°	10	C
# 11	-	0	-	31'	Diabase	60°	11	C
# 12	-	0	-	57'	Diabase	45°	12	C
# 13	-	0	-	36'	Quartz	90°	13	C
# 14	-	0	-	40'	Quartz	90°	14	C
# 15	-	0	-	39'	Quartz	90°	15	✓
# 16	-	0	-	7'	Quartz	90°	16	✓
# 17	-	0	-	40'	Quartz	40°	17	✓
# 18	-	0	-	38'	Diabase	50°	18	✓
19	-	0	-	Total Footage 869' recorded.		38°	19	✓

All cores are in trays and racked beside Pit # 1

Bosco Milton
Bosco Milton

ASSESSMENT WORK

Rec'd from *Mining Recorder*

Haileybury

Date *Jan. 16, 1957*

W.J.H.
Resident Geologist

November 29, 1949

Dear Mr. Walkon and Mr. Cooper :

We have been notified of the incorporation on July 8, 1949 of Minnesota-Huron Iron Comapny Limited, with Head office at 609 Public Utilities Building, Port Arthur, Ontario.

The company apparently held a number of unpatented claims in both MacBeth and Clement Townships which are on the border bwetween the Temiskaming and Sudbury Districts.

However, under proposed programme they say "work and claims abandoned" so we are not bothering to copy the list of claim numbers. If you should ever want them they are on file here.

Yours very truly ,

Office of the Chief
Inspector of Mines

/da

Mr. L. K. Walkom
Inspector of Mines
Box 68
Swastika, Ontario

Mr. D. F. Cooper
Inspector of Mines
Box 24
Sudbury, Ontario

**DUPLICATE COPY
POOR QUALITY ORIGINAL
TO FOLLOW**

Dr. G. S. Savage

November 29, 1949.

Dear Mr. Walkon and Mr. Cooper:

We have been notified of the incorporation on July 8, 1949, of Minnesota-Huron Iron Company, Limited, with head office at 609 Public Utilities Building, Port Arthur, Ontario.

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Yours very truly,

/ds

Office of the Chief Inspector of Mines.

Mr. L. K. Walkon,
Inspector of Mines,
Box 68,
SWASTIKA, Ontario.

and
Mr. D. V. Cooper,
Inspector of Mines,
Box 24,
SUDBURY, Ontario.

ONT. DEPT. MINES

DEC 7 1949

RESIDENT GEOLOGIST
CORALT, ONTARIO

Box 48,
Swastika, Ontario,
October 24th, 1956.

Mr. L. J. Cunningham, P. Eng.,
Consulting Mining Engineer,
Box 21,
COBALT, Ontario.

Dear Sir:

Re: Halkin Mines Ltd.
Clement & York townships

Enclosed herewith please find a specimen page from the tables
published in:

METAL RESOURCES CIRCULAR NO. 1

Copper, Nickel, Lead and Zinc Deposits in Ontario

by

J. E. Thomson & Resident Geologists

Ontario Department of Mines - May, 1954

and several copies of our standard form on which changes or
information on new properties can be recorded.

We are now collecting (deadline November 15) and compiling
information for a new edition which will be published early in 1957 as
METAL RESOURCES CIRCULAR NO. 2.

Your prompt attention and co-operation in providing the
Department of Mines with accurate and up-to-date records for this purpose
will be appreciated.

Yours very truly,

WSS:JD
Encls.

W. S. Savage,
Resident Geologist.

8 November, 1956.

Halkin Mines Limited,
Suite 808,
70 Richmond St. W.,
Toronto, Ontario.

Dear Sirs:

Attached find:

- (a) Two copies of map showing main ~~exploration~~.
- (b) invoice for professional services for October, 1956.

During the past week I visited your property in the company of Dr. H. Thomson, Resident Geologist Ontario Department of Mines, and also visited the property of Obabika Mines, Belfast Township.

Trenching and drilling have outlined a flat lying mass (150' long x 75' wide) of quartz-carbonate material which has been partially subjected to brecciation and mineralization. Mineralization is mainly chalcopyrite with pyrite.

Not all the quartz carbonate is brecciated and mineralized. As illustrated on the accompanying map, approximately the northwest quarter of the mass is affected. The writer estimated the grade of this portion to be 1% - 2% copper.

A surface area of 80' x 30' is mineralized - which would yield approximately 200 tons per vertical foot - three drill holes have penetrated this area--they are Nos. 6, 7 and 13.

Hole No. 6 had a 7 foot section from footage 15 - 22 which is typical mineralized (chalcopyrite and pyrite) quartz carbonate brecciated material and included a 6" section of sulphides (60% chalcopyrite and 40% pyrite). Grade would be 1 - 2% copper.

Hole No. 7 had 6 ft. (from 0' - 12') of quartz carbonate material; mineralization was sparse.

Hole No. 13 had 30 ft. of quartz carbonate mineralization consisting of 6" of chalcopyrite at the collar and $\frac{1}{2}$ " at 22 feet.

Hole No. 12 and old holes 1951 #1 and 2 passed under the zone and while #1 (1951) intersected the zone, nos. 12 and #2(1951) did not cut anything significant.

The diabase in the immediate vicinity shows much variation and it is suggested that this zone of quartz carbonate with chalcopyrite and pyrite mineralization represents a differentiation of the diabase mass -- in other words,

Salkin Mines, 8 November, 1956

the quartz carbonate and sulphide mineralization was not introduced into the diabase which is the host rock but is an end phase of differentiation within the diabase.

The writer does not believe that this occurrence has any economic significance but it does show the presence of chalcopyrite mineralization with the diabase and the possibility of economic concentration elsewhere cannot be ruled out.

I am aware that a considerable number of similar ^{but not economic} quartz-carbonate zones with chalcopyrite mineralization have been found to date in the Cobalt-Tenagami area, nevertheless, I recommend the following:

- (1) that the claims be prospected for similar and other types of mineral occurrences,
- (2) that (if practical) geophysical methods be tried.

The Obabika showing is a quartz carbonate zone 4,000 feet long in the diabase and also in the cobalt sediments. It is flat lying and very sparsely mineralized. Drilling to date has NOT been encouraging.

A resistivity survey was completed and outlined an anomaly which occupies a depression along which the quartz carbonate outcrops. The importance of the anomaly is, I believe, still untested.

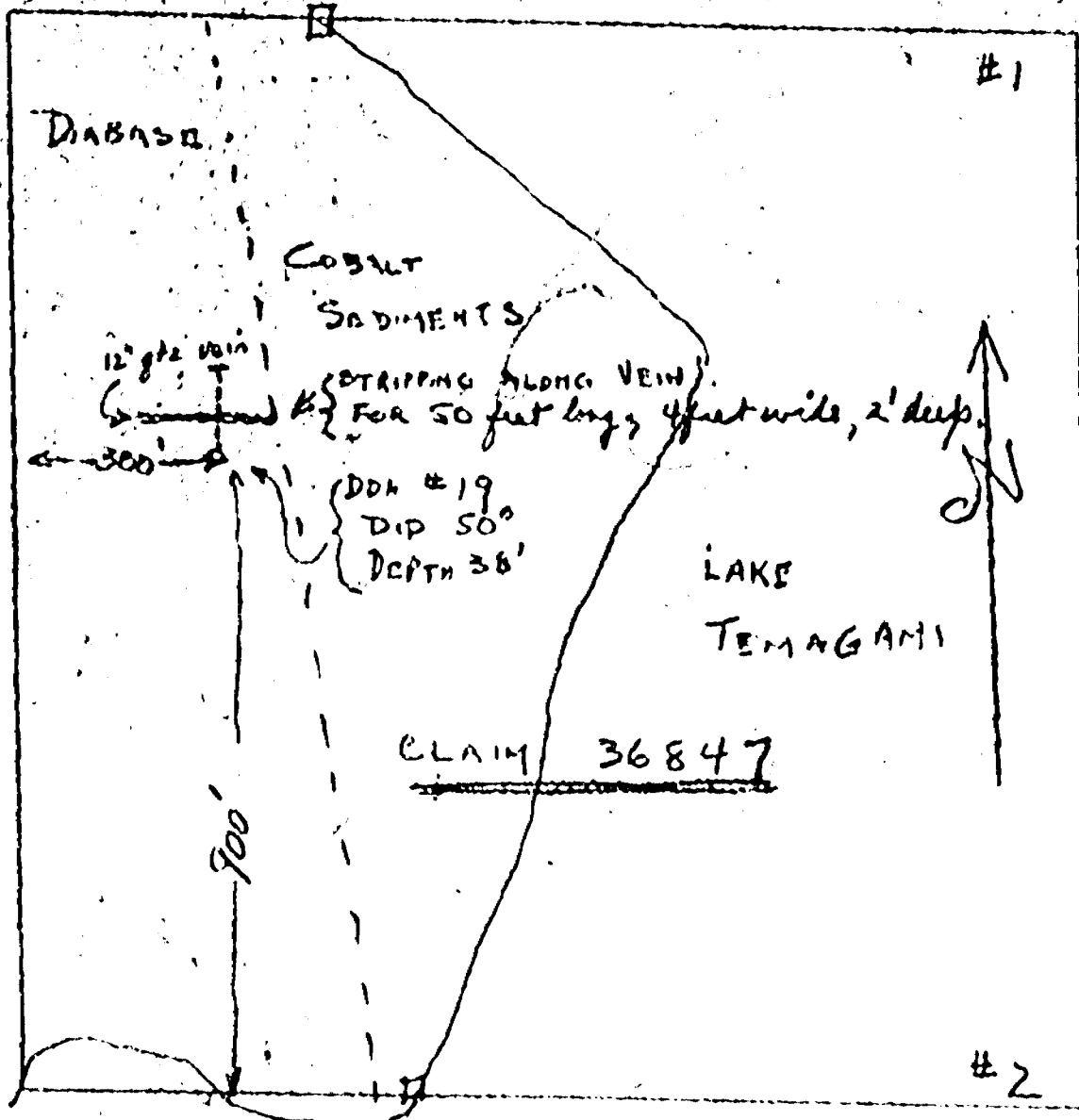
Yours very truly,

L. J. Cunningham.

enc.

#4 Post

W.P. for No. 1 Post



SIGNED FOR
HALKIN MINES LTD.

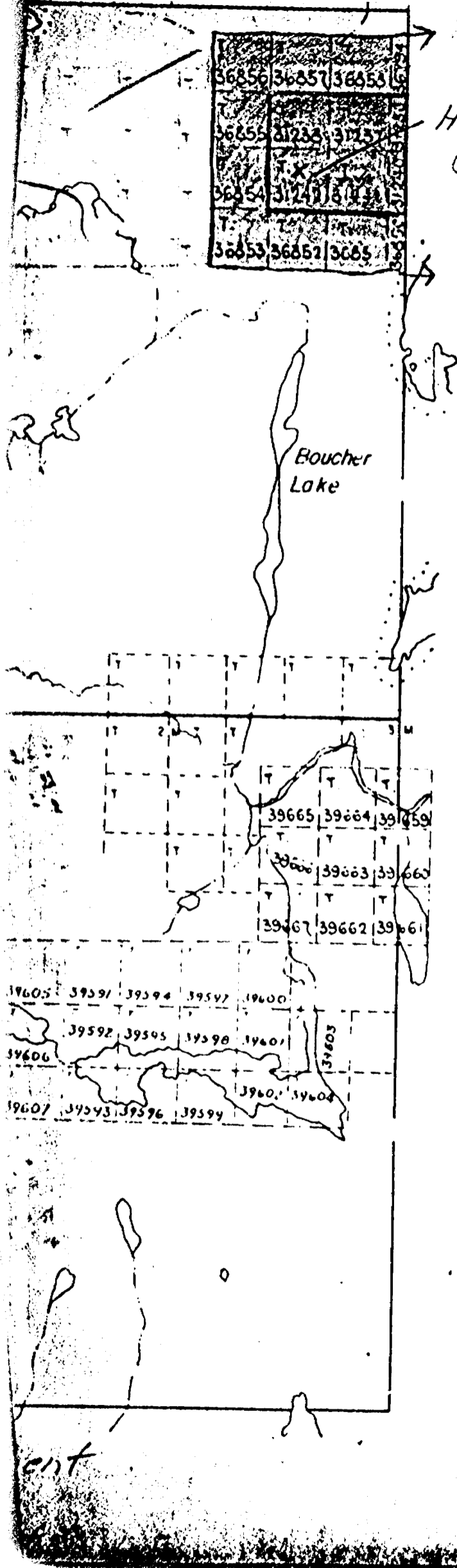
Basco Miller

VOGT TP



41116NE0101 CLEMENT17 CLEMENT

900



Halkin Mines Ltd
Clement Twp
1956

Vogt Twp.

CLEMENT

DISTRICT OF
NIPISSING
TIMISKAMING

MINING DIVISION

SCALE: 1-INCH=40 CHA

LEGEND

- PATENTED LAND
- CROWN LAND SALE
- LEASES
- LOCATED LAND
- LICENSE OF OCCUPATION
- MINING RIGHTS ONLY
- SURFACE RIGHTS ONLY
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED

NOTES

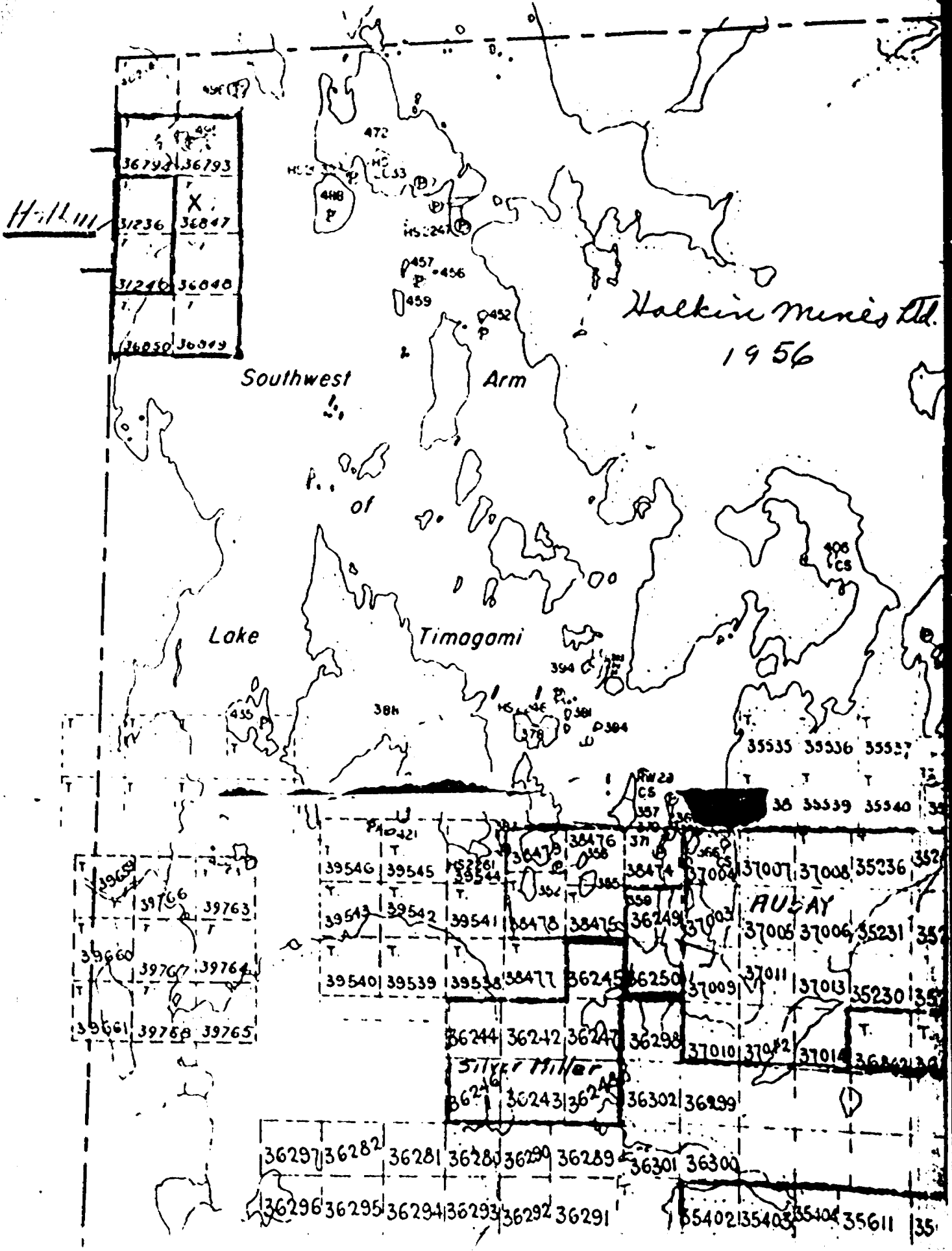
400' Reserved By Department Of Land
Forest Shown Thus:

TIMAGAMI PROVINCIAL FOREST

PLAN NO.- M. 449

DEPARTMENT OF MI

Vogt Township



SCHOLES TWP

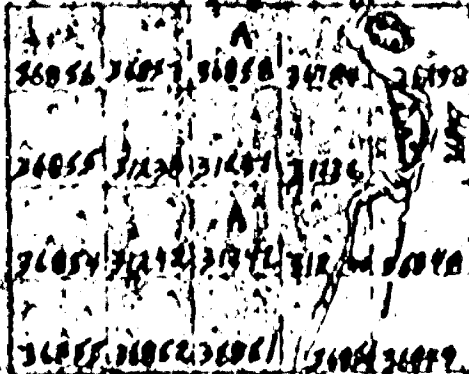
PHYLLIS TWP

GULL
LAKE

LAKE
TIMAGAMIC

CLEMENT TWP

VOGT TWP



APPENDIX I

GEOLOGICAL SKETCH MAP

LAKE TIMAGAMIC CLAIMS OF

HALKIN MINES

LIMITED

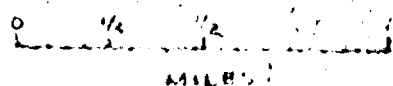
LEGEND

Distant Intrusives **AA**

Cobalt Sediments **BB**

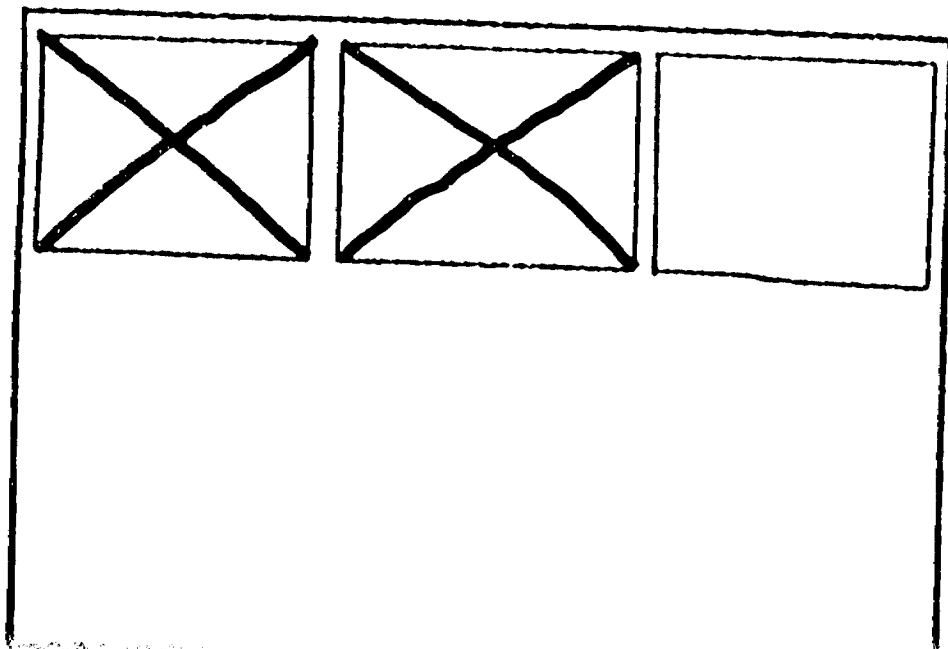
Contact **---**

GEOLOGY from MAP 22h. ONTARIO DEPARTMENT OF MINES.



SEE ACCOMPANYING
MAP(S) IDENTIFIED AS
CLEMENT-0017.*1
CLEMENT-0017.*2

LOCATED IN THE MAP
CHANNEL IN THE FOLLOWING
SEQUENCE (X)



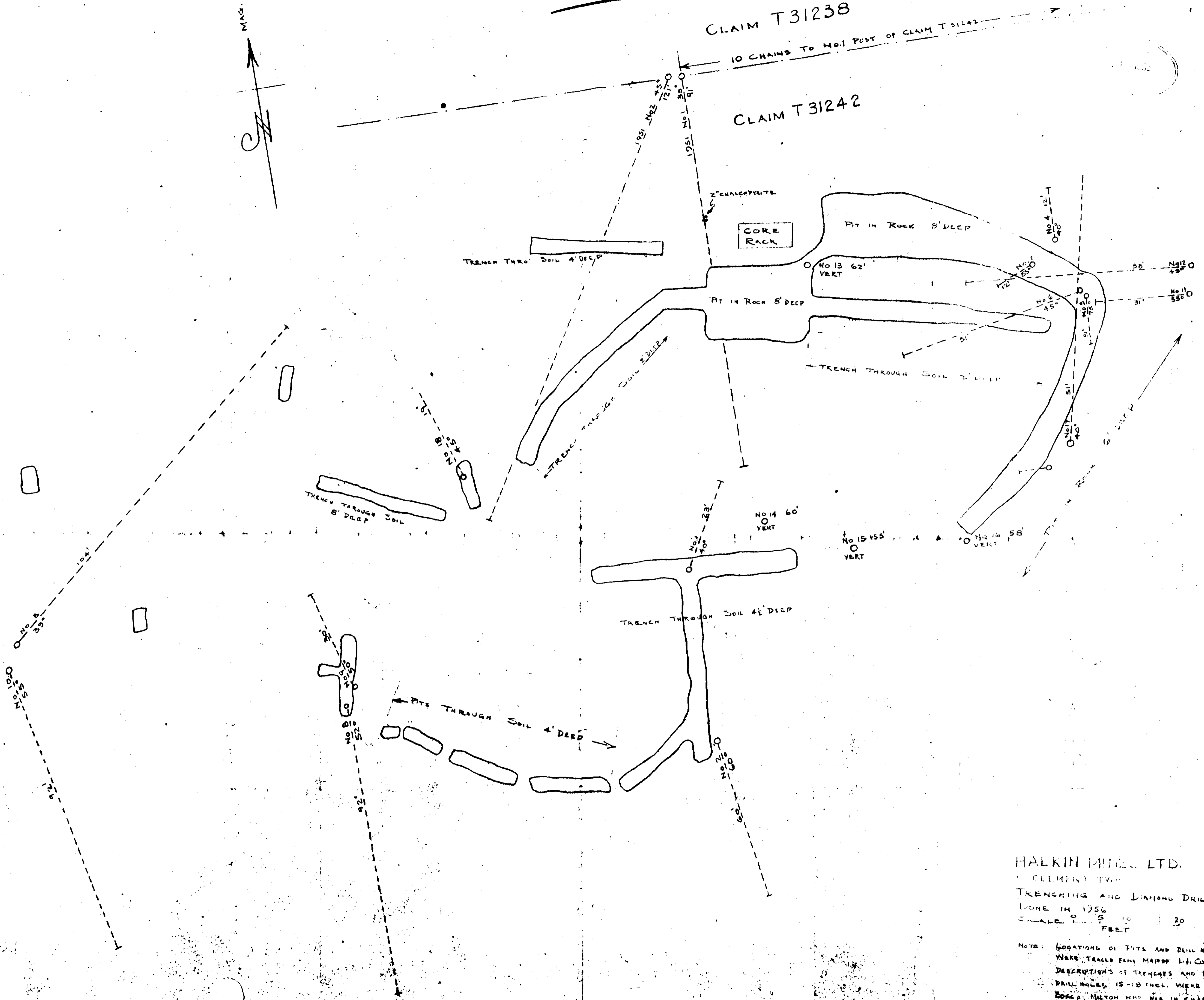
AS SURVEY

CLEMENT

CLAIM T31238

CLAIM T31242

10 CHAINS TO NO. 1 POST OF CLAIM T3142



HALKIN MINES LTD.

CLEMENT IV
TRENCHING AND DIAMOND DRILLING
DONE IN 1956
SCALE 1" = 20 FEET

NOTE: LOCATIONS OF PITS AND DRILL HOLES (1-16) WERE TAKEN FROM MAPS BY CHAS. H. BROWN & CO. DESCRIPTIONS OF TRENCHES AND LOCATIONS OF DRILL HOLES (1-16) WERE SUPPLIED BY BOSSO HILTON WHO WAS IN CHARGE OF WORK.

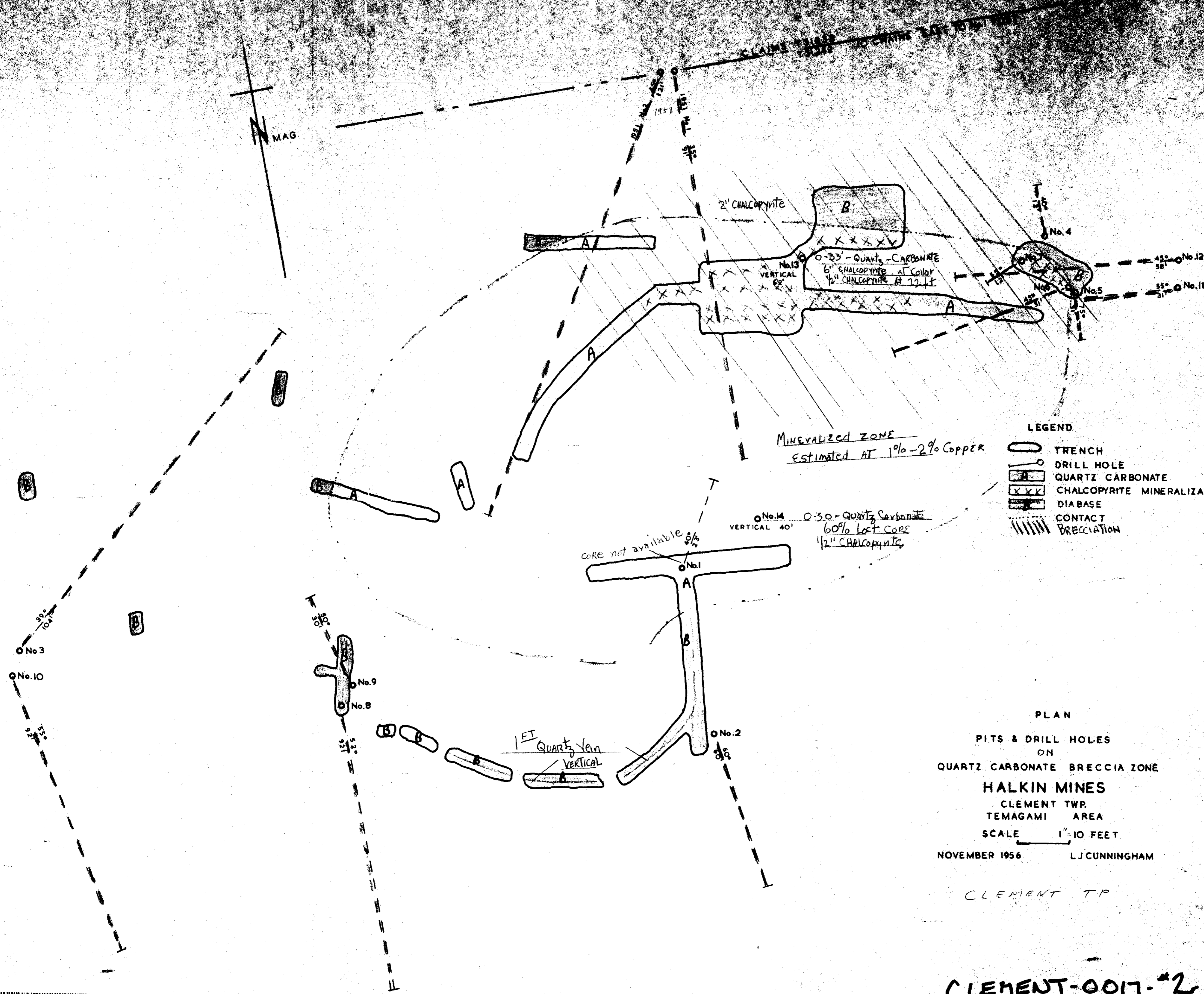
PREPARED BY K.M. BROWN 7 JAN 1957
SUBMITTED BY BOSSO HILTON FOR HALKIN MINES LTD.

Bosso Hilton
SIGNATURE



CLEMENT-0017-#1





LEGEND

- TRENCH
- DRILL HOLE
- QUARTZ CARBONATE
- CHALCOPYRITE MINERALIZATION
- DIABASE
- CONTACT BRECCIATION

PLAN
 PITS & DRILL HOLES
 ON
 QUARTZ CARBONATE BRECCIA ZONE
HALKIN MINES
 CLEMENT TWP.
 TEMAGAMI AREA
 SCALE 1" = 10 FEET
 NOVEMBER 1956 LJCUNNINGHAM

CLEMENT TP

CLEMENT-0017-2

