



41116SW0007 0013B1 CLEMENT

010

Diamond Drilling

Township of CLEMENT

Report N^o: 10

Work performed by: LEGER MINES LIMITED

Claim N ^o	Hole N ^o	Footage	Date	Note
T 51911	M-1	285'	July/64	
	M-2	227'	Aug/64	
	M-3	188'	Aug/64	
	M-4	137'	Aug/64	
	M-6	114'	Aug/64	
	M-7	698.5'	Oct/64	

Total DH 6 1649.5'

Notes:

TS1911

LEGER MINES (1984) LIMITED
 Suite 1502, 80 Richmond St. West
 Toronto 1, Canada

DIP - 40 deg. BEARING - South (astro) LENGTH - 285 feet
 LAT. 800 N. DEP. 200 W.
 ELEV. _____

STARTED July 20/64
 COMPLETED Aug. 5/64

HOLE NO. M-1
 PROPERTY Manitou Lake, Clement Twp.

FOOTAGE		DESCRIPTION	CORE				
FROM	TO		SPL NO.	FROM	TO	WIDTH	GRADE
0	4.2	CASING					
4.2	27.0	Massive quartzite with calcite stringers with scattered iron sulphides					
27.0	30.0	Interbanded greenstone and quartzite well mineralized with pyrite					
30.0	37.0	Quartzite with fine calcite stringers F. W. mineralized with pyrite					
37.0	42.0	-ditto- well mineralized with pyrite & pyrrhotite					
42.0	45.0	=ditto- some disseminated pyrite & pyrrhotite.					
45.0	47.5	-ditto- well mineralized with pyrite & pyrrhotite.					
47.5	49.0	-ditto- scattered pyrite & pyrrhotite					
49.0	50.0	-ditto - very well mineralized with pyrite & pyrrhotite (some sphalerite?)					
50.0	54.0	fine-grained andesite (or graywacke)					
54.0	56.5	Massive iron sulphides (with some sphalerite?? and chalcopyrite??)					
56.5-57	57.0	altered sheared (contact) rock with 1/8" to 1/4" stringers, of sulphides.					
57.0	71.0	Scarny quartzite and carbonated breccia, well-mineralized with pyrite and some sphalerite (and possibly? galena)					
71.0	78.5	Carbonated quartzite with scattered pyrite and specks of sphalerite.					
78.5	81.0	Iron formation with magnetite.					
81.0	86.0	Quartzite with carbonates and zinc blende.					
86.0	88.0	Andesite(?) with iron and zinc sulphides.					

CONTINUED ON PAGE 2

LEGER MINES (1964) LIMITED
 Suite 1502, 80 Richmond St. West
 Toronto 1, Canada

DIP

BEARING

LENGTH

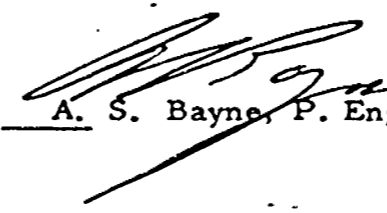
LAT.

DEP.

ELEV.

STARTED _____
 COMPLETED _____

HOLE NO. M-1
 PROPERTY Manitou Lake, Clemnt Twp.

FOOTAGE		DESCRIPTION	CORE				
FROM	TO		SPL. NO.	FROM	TO	WIDTH	GRADE
88.0	98.0	Quartzite with a little massive ZnS at 98.0					
98.0	100.0	Fragmental quartzite quartzite with fine grained rhyolitic rock.					
100.0	105.0	Pink quartz feldspar (porphyritic??)					
105.0	125.0	Grey siliceous porphyritic rock					
125.0	150.0	Grey and pink porphyritic rock.					
175.0	200.0	Pink and grey porphyritic rock, mixed with andesitic rock. appears to be entering upper contact with basic sill.					
200.0	234.0	-ditto-					
234.0	241.0	Pink porphyritic rock.					
241.0	250.0	Fine grained andesitic rock (Diabase contact rock??)					
250.0	275.0	" " " " " "					
275.0	285.0	Fine grained diabase(?)					
		END OF HOLE 285.0 feet.					
		Length of core in boxes --291 feet.					
		Recovery-100 percent.					
DRILLED BY S. Bradley, Sturgeon Falls, Ont.							
LOGGED BY  A. S. Bayne, P. Eng.							

LEGER MINES (1964) LIMITED
 Suite 1502, 80 Richmond St. West
 Toronto 1, Canada

DIP -40 deg. BEARING South(astro) LENGTH 227 feet
 LAT. 900 N.
 DEP. 300 W.
 ELEV. _____

STARTED Aug. 6/64
 COMPLETED Aug. 17/64

HOLE NO. M-2
 PROPERTY Manitou Lake, Clement Twp.

FOOTAGE		DESCRIPTION	CORE				
FROM	TO		SPL NO.	FROM	TO	WIDTH	GRADE
0	6.0	EXSIXXXX CASING.					
6.0	15.0	silicified graywacke and quartzite. rusted and vuggy with pyrite and some chalcopyrite. White and yellow marcasite and (sphalerite?) oxide. LOST CORE AT 8 to 9.25 feet; 10 to 11 feet; 2.2. to 2.9 feet; 3.5 to 4.25 feet.					
15.0	23.0	carbonated quartzite with stringers of rusted sulphides.					
23.0	25.0	-ditto- with more rusted material.					
25.0	50.0	grey quartzite with disseminated sulphides(magn etc) two feet of unmineralized graywack from 27.5 to 29.5.					
50.0	69.5	Massive siliceous highly carbonatized rock. Either silicified crystalline limestone or limey quartzite. Finely disseminated iron sulphides.					
69.5	70.0	-ditto. Well mineralized with disseminated sulphides.					
70.0	75.0	-ditto but with coarser crystalline sulphides.					
75.0	79.5	-ditto with disseminated magnetic sulphides.					
79.5	89.75	Scarny reddish brown epidotized(alterd andesite) rock with some small garnets. Not mineralized nor magn etc.					
89.75	91.00	Massive iron sulphides. highly magn etc.					
91.00	100.00	Scarny epidotized rock. non-magn etc, not mineralized. with sulphides.					
100.0	104.5	-ditto-					
104.5	107.8	Red syentite (porphyry??)					
107.8	125.0	Mottled grey porphyritic rock/					
125.0	150.0	ditto----					
150.0	155.0	ditto-					
155.0	159.0	mixed porphyry & andesitic rock. (diabase contact??)					
159.0	195.0	Andesite or fine grained diabase from sill.					
195.0	227.0	-ditto-					

DRILLED BY- Simon Bradley, Sturgeon Falls, Ont.

LOGGED BY-- A. S. Bayne, P. Eng.

END OF HOLE- 227.0 feet



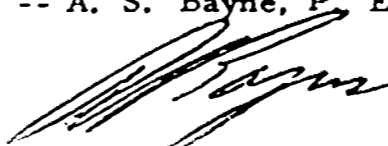
LEGER MINES (1964) LIMITED
 Suite 1502, 80 Richmond St. West
 Toronto 1, Canada

DIP -30 deg. BEARING South(astro) LENGTH
 LAT. 980 N. 188 feet
 DEP. 300 W.
 ELEV. _____

STARTED Aug. 18 /64
 COMPLETED Aug. 25/64

HOLE NO. M-3
 PROPERTY Manitou Lake, Clement Twp.

FOOTAGE		DESCRIPTION	CORE				
FROM	TO		SPL NO.	FROM	TO	WIDTH	GRADE
0	20	CASING					
20.0	25.0	Massive quartzite with band of graywacke at 22' to 23' . not mineralized					
24.2	26.5	Massive magnetic sulphides with some chalcopyrite.					
26.5	26.8	2" band of chloritized material.					
26.8	28.0	mixed quartzite and graywacke (or andesite??) well mineralized with pyrite.					
28.0	33.7	Quartzite and some graywacke(not mineralized).					
33.7	35.2	50% to massive iron sulphides with some chalcopyrite.					
35.2	37.8	Massive magnetite with some iron sulphides.					
37.8	40.0	Massive limey quartzite. well mineralized with disseminated sulphides(iron)					
40.0	46.6	Scarney limey material material.					
46.6	50.0	Massive limey quartzite very sparsely mineralized with pyrite.					
50.0	55.0	-ditto-					
55.0	55.3	-ditto- well mineralized with iron sulphides.					
55.3	75.0	Very limey quartzite(or is it siliceous X'L'N limestone. Some dissem. pyrite.					
75.0	125.0	Crystalline limestone- silicified. not mineralized.					
125.0	130.0	Limey quartzite. not mineralized.					
130.0	145.0	Massive iron sulphides.					
145.0	153.5	-ditto-					
153.5	161.5	Andesite?) or graywacke(?)					
161.5	175.0	mixed quartzite and andesitic material, (diabase contact zone////????)					
175.0	188.0	diabase, massive.					
		END OF HOLE --188 feet.					
		LENGTH OF CORE IN BOXES 213.5 feet Recovery -100%					
		DRILLED BY SIMON BRADLEY, Strugeon Falls, Ont.					
		LOGGED BY -- A. S. Bayne, P. Eng.					




LEGER MINES (1964) LIMITED
 Suite 1502, 80 Richmond St. West
 Toronto 1, Canada

DIP 50 deg. BEARING South (astro) LENGTH 137 feet
 LAT. 980 N.
 DEP. 300 W.
 ELEV. _____

STARTED Aug. 25/64
 COMPLETED Aug. 29/64

HOLE NO. M-4
 PROPERTY Manitou Lake, Clement Twp.


FOOTAGE		DESCRIPTION	CORE				
FROM	TO		SPL. NO.	FROM	TO	WIDTH	GRADE
0	15.0	CASING					
15.0	22.0	Quartzite and graywacke					
22.0	26.3	Massive iron sulphides with some chalcopryrite.					
26.3	31.0	Massive quartzite, with disseminated sulphides.					
31.0	33.5	Massive iron sulphides with some chalcopryrite.					
33.5	38.5	Quartzite well mineralized with sulphides. (pyrite & pyrrhotite.)					
38.5	40.8	Fine grained quartzite.					
40.8	53.9	Scarney material.					
53.9	62.5	Limey quartzite with sulphide mineralization.					
62.5	78.0	siliceous X'L' N Limestone.					
78.0	97.5	highly carbonatized quartzite, almost crystalline limestone.					
97.5	97.7	graywacke (or andesite. ???)					
97.7	99.0	crystalline limestone.					
99.0	100.0	fine grained graywacke/ sulphide					
100.0	108.0	limey quartzite with sparse iron, copper, zinc/mineralization.					
108.0	125.0	fine grained andesitic material alternating with quartzite.					
		diabasic sill contact zone???					
125.0	137.0	diabasic massive.					
END OF HOLE --137 feet.							
DRILLED BY--Simon Bradley, Sturgeon Falls, Ontario.							
LOGGED BY -A. S. Bayne, P. Eng.							
							

LEGER MINES (1964) LIMITED
 Suite 1502, 80 Richmond St. West
 Toronto 1, Canada

DIP -90 deg. BEARING vertical LENGTH
 LAT. 980 N. 114 feet
 DEP. 300 W.
 ELEV. _____

STARTED Aug. 29, 1964
 COMPLETED Sept. 17, 1964

HOLE NO. M-6
 PROPERTY Manitou Lake, Clement Twp.

FOOTAGE		DESCRIPTION	CORE				
FROM	TO		SPL. NO.	FROM	TO	WIDTH	GRADE
0	13	CASING					
13.0	16.4	siliceous graywacke or (andesite?) non magnetic)					
16.4	24.5	massive magnetuc iron sulphides, some chalco specks					
24.5	29.0	fine grained andesite with 25% to 50% sulphides.					
29.0	36.9	massive sulphides with pyrrhotite, xxxxxx coarse pyrite and chalco, in quartzite at 30 deg. to core axis.					
36.9	51.4	unmineralized quartzite and graywacke--massive and fine grained.					
51.4	52.0	25% to 50% iron sulphide with some chalcopyrite and a speck of bornite					
52.0	53.4	chloritized andesite or graywacke.					
53.4	59.2	massive iron sulphides. to					
59.2	61.6	silicified graywacke with 10% 50 /25% iron sulphides.					
61.6	70.0	silicified graywacke and quartzite with 5% to 10% iron sulphides(magnetic)					
70.0	85.0	Scarney material.					
85.0	90.7	Quartzite, unmineralized.					
90.7	114.0	massive fine-grained to medium diabase. (Chalcopyrite speck at 99.3)					
		END OF HOLE - 114 feet					
		DRILLED BY Simon Bradley , Sturgeon Falls, Ont.					
		LOGGED BY-- A. S. Bayne, P. Eng.					
							

DIAMOND DRILL RECORD

LEGER MINES (1964) LIMITED
Suite 1502, 80 Richmond St. West
Canada

NAME OF PROPERTY MANITOU LAKE, (Clement Twp.) Toronto 1
 HOLE NO. M-7 LENGTH 698.5 (as at Oct. 10, 1964)
 LOCATION 125 feet N. (astro) of M-6 on Claim T. 51911
 LATITUDE 43° 105' N. DEPARTURE 300' W.
 ELEVATION _____ AZIMUTH _____ DIP -90 degrees
 STARTED _____ FINISHED _____

FOOTAGE	DIP	AZMUTH	FOOTAGE	DIP	AZMUTH

HOLE NO. M-7 SHEET NO. 1
 REMARKS Drilled by: S. Bradley, Diamond-Drilling, Sturgeon Falls, Ontario.
 LOGGED BY A. S. Bayne, P. Eng.

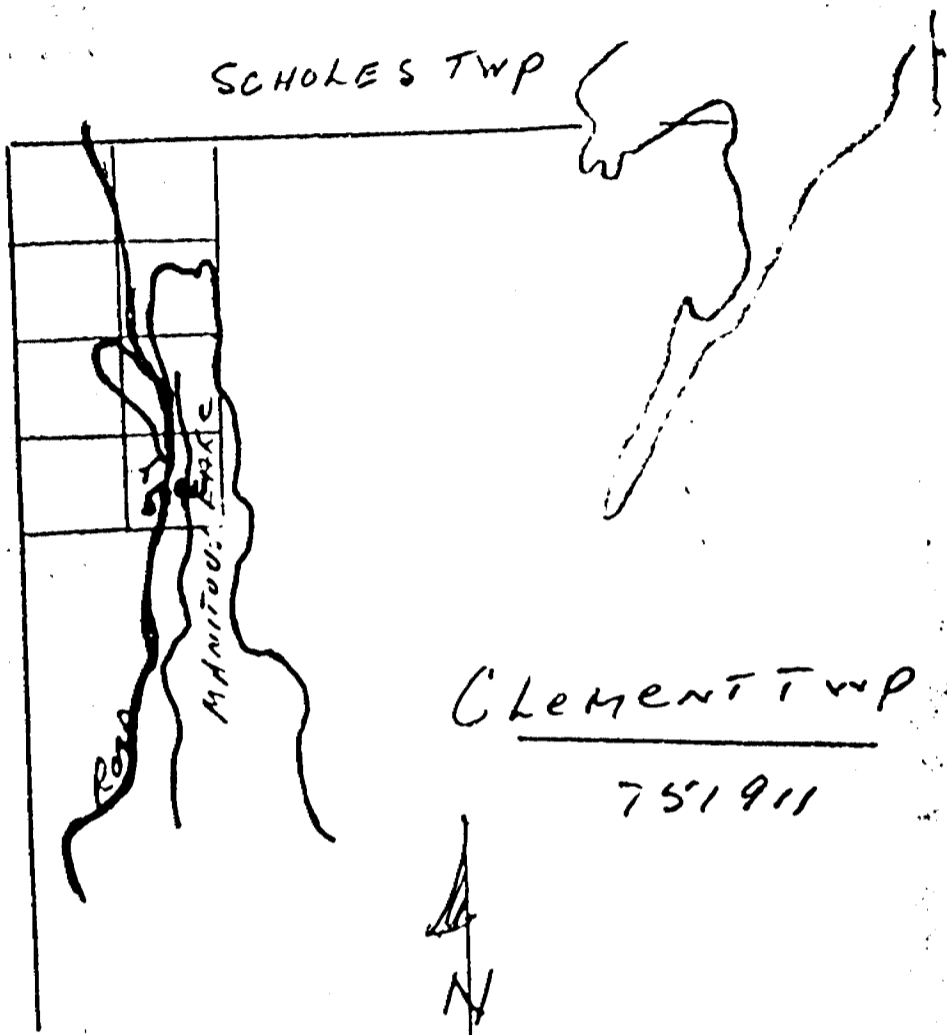
LEGER MINES LIMITED, 105 RICHMOND STREET WEST, TORONTO, ONT. EM. 6-1188

FOOTAGE		DESCRIPTION	SAMPLE			ASSAYS					
FROM	TO		NO.	SULPHIDES	FOOTAGE			%	%	OZ/TON	OZ/TON
					FROM	TO	TOTAL				
0	42.0	CASING (Clay, sand, gravel, boulders, etc.)									
42.0	75.0	Quartzite; carbonatized, with some disseminated ferrous sulphides. Finely disseminated chalcopryrite at 55.0 ft. Several fractures at 90 deg. to core axis, causing loss of water and cementation at 48.0', 52.6', 68.0', 72.3'.									
75.0	90.0	Fine-grained graywacke and/or altered basic rock. Quartzite inclusions at 84.0' to 90.0 ft. This is upper contact of the basic intrusive, (flat-lying hangingwall), encountered in Holes M-1 to M-6									
90.0	150.0	Fine to medium-grained basic intrusive rock. (diabasic)/									
150.0	500.0	Medium-grained to coarse gabbroic rock with some fine specks of chalcopryrite/ Some carbonate stringers and occasional hematization in fine fractures.									
500.0	525.0	-ditto- with 1" to 6" fractures filled with quartz & carbonates at 90 deg. to core axis.									
525.0	694.0	Medium to coarse-grained fine-grained diabasic rock. From 575.0 down, crystal size more consistently finer and more uniform than from 150.0' to 525.0'.									
694.0	698.5	Fine-grained greenstone and/or graywacke, with much sericitic and chloritic alteration. Appears to be entering lower contact of basic intrusive with underlying Keewatin and Timiskaming rocks.									

N. B. - AS AT OCTOBER 10, 1964 DRILLING CONTINUING
 A. S. Bayne, P. Eng. October 10, 1964

SCHOLES TWP

MACBETH TWP



CLEMENT TWP

751911

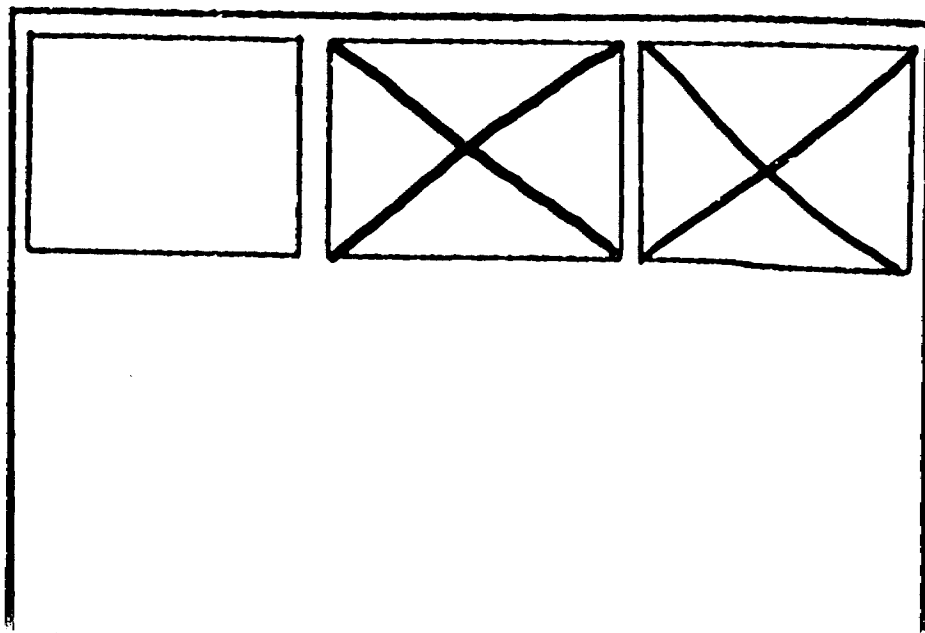


SEE ACCOMPANYING
MAP(S) IDENTIFIED AS

CLEMENT-0013-B1-#1

CLEMENT-0013-B1-#2

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



LEGEND

CENOZOIC

PLEISTOCENE & RECENT

- Swamp & Muskeg
- Sand, gravel, clay, till, drift
- GREAT UNCONFORMITY

PRE-CAMBRIAN

PROTEROZOIC

KEENEWANAN AND MATACHWAN (pre-Huronian)

- 7 Diabase
- INTRUSIVE CONTACT

HURONIAN SYSTEM

- COBALT GROUP
- LORRAIN FORMATION

- 6 Quartzite, arkose
- GONGANDA FORMATION
- 5 Conglomerate, arkose, greywacke, slate
- UNCONFORMITY

ANCHEAN

ACID INTRUSIVE ROCKS

- 4 Red & grey feldspar porphyries
- BASIC & ULTRABASIC INTRUSIVE ROCKS
- 3 Gabbro, diorite, peridotite, pyroxenite
- INTRUSIVE CONTACT

SEDIMENTARY ROCKS (TIMISKAMING)

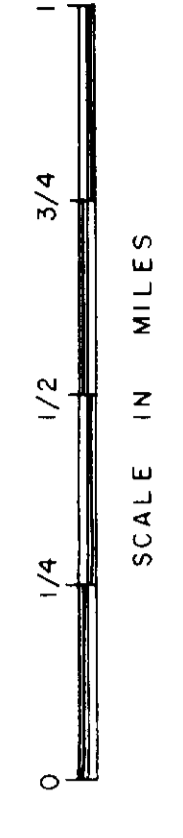
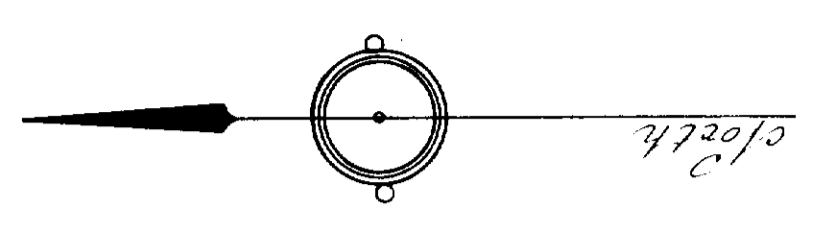
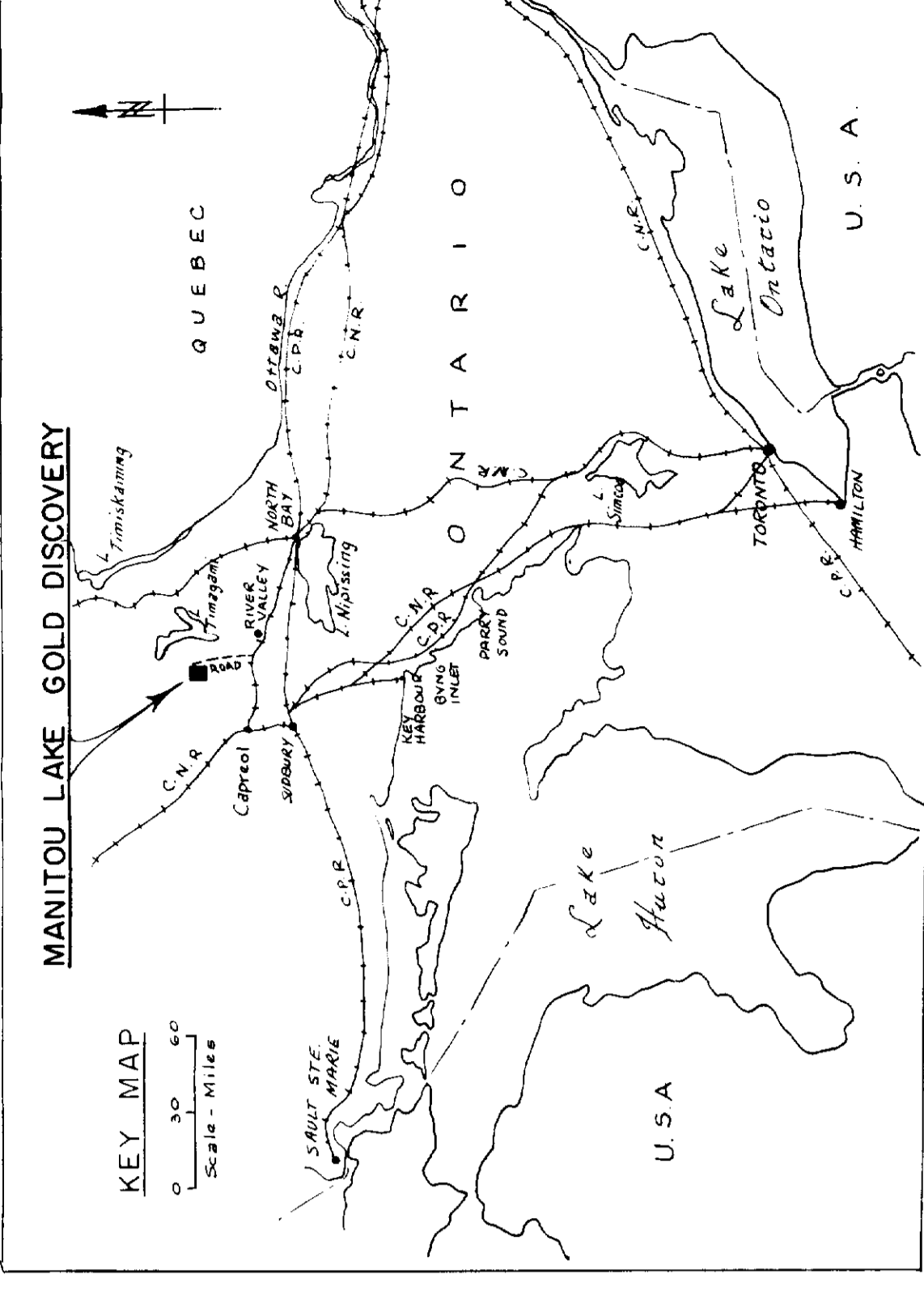
- 2 Conglomerate, Quartzite, greywacke

KEEWATIN

- 1 Iron formation, Magnetite, hematite, interbedded Quartz, chert, Jasper, Pyritized
- Volcanic greenstones, Andesite, basalt, rhyolite, with interflow sedimentary rocks.

SYMBOLS

- Geological boundary defined & assumed (boundary of outcrop area)
- Strike of vertically dipping beds & flows
- Strike & dip of beds or flows
- Edge of steep rocky scarp
- Iron or Copper sulphide occurrence
- Gravel auto road
- Shore of Lake or Pond



LEGER MINES (1964) LIMITED
 Suite 1902, 80 Richmond St. West
 Toronto 1, 1, Canada.

PRELIMINARY SKETCH

— SHOWING —
GENERAL GEOLOGY OF AFTON-SCHOLES AREA

— WITH —
ADDITIONAL GEOLOGICAL FEATURES WEST OF MANITOU LAKE

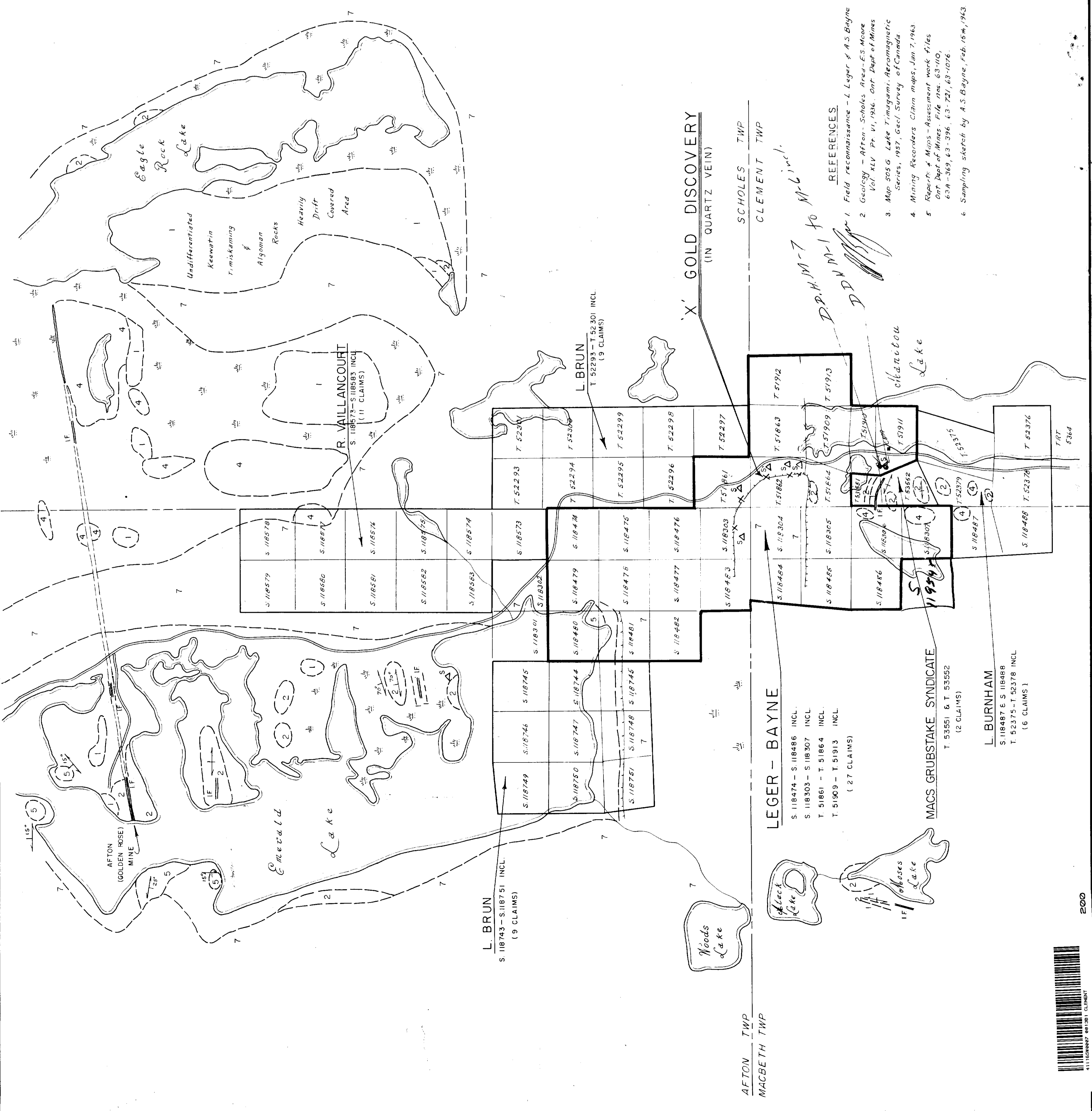
GOLD DISCOVERY N.W. OF MANITOU LAKE

SUBBURY-TIMISKAMING MINING DIVISION, ONTARIO

TORONTO CANADA
 FEBRUARY 15, 1963
 REVISED FEBRUARY 28/1964
 A. S. BAYNE & COMPANY
 CONSULTING ENGINEERS



CLEMENT 3-B1-#1

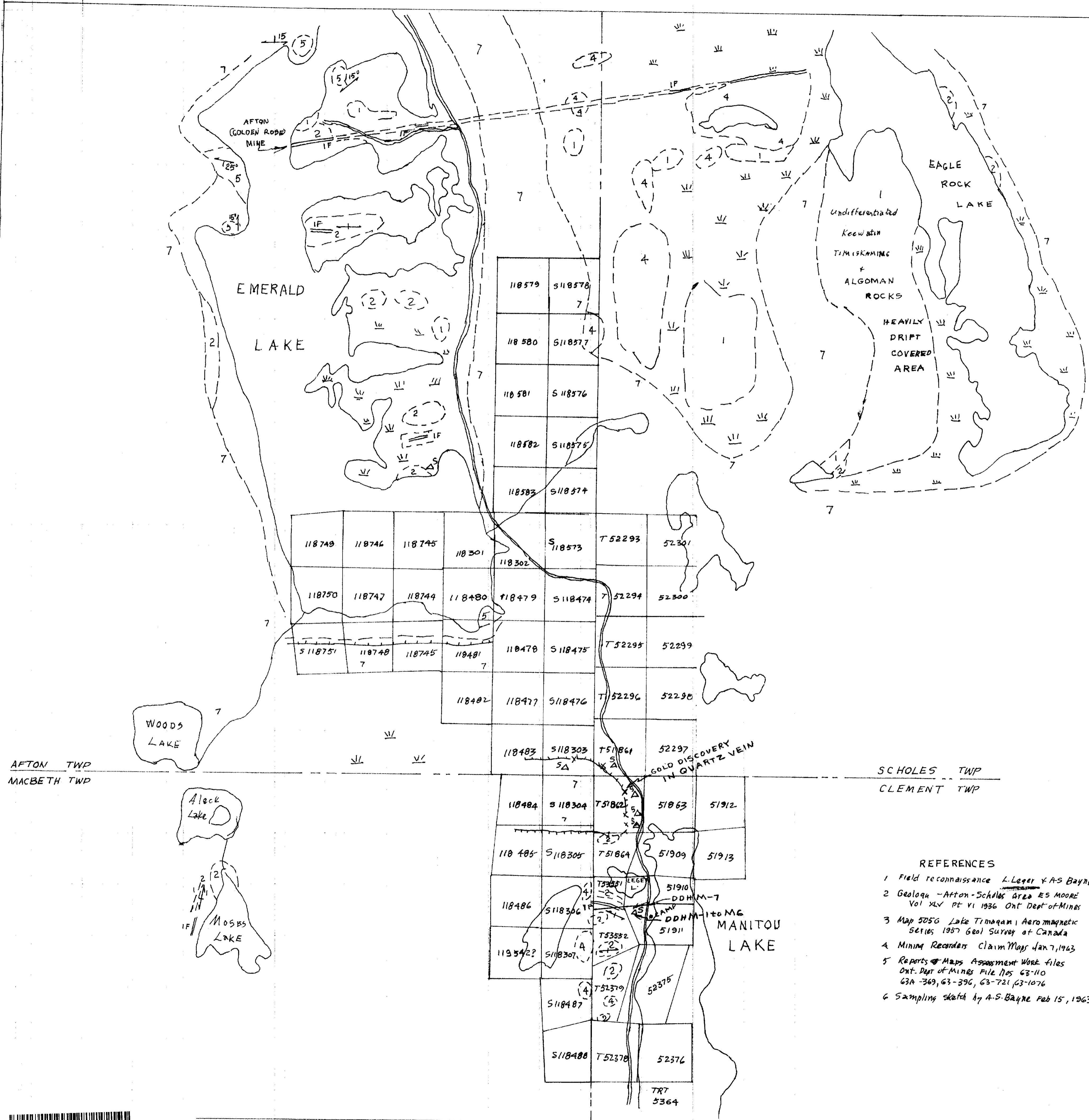


REFERENCES

1. Field reconnaissance - L. Leger & A.S. Bayne
2. Geology - Afton-Scholes Area - E.S. Moore Vol. XLV Pt. VI, 1946. Ont. Dept. of Mines Series, 1957. Geol. Survey of Canada.
3. Map 505 G Lake Timiskaming, Aeromagnetic Series, 1957. Geol. Survey of Canada.
4. Mining Records Claim maps, Jan 7, 1963
5. Reports & Maps - Assessment work files Ont. Dept. of Mines. File nos. 63-110, 63A-369, 63-396, 63-721, 63-1076.
6. Sampling sketch by A.S. Bayne, Feb. 15th, 1963

D.D.M. - 7 to M-6 incl.
D.D.M. - 1 to M-6 incl.





- KEEWEENAWAN OR MATACHEWAN
 7 Diabase
- LORRAIN
 6 Quartzite arkose
- GOWGANDA
 5 Conglomerate arkose, greywacke slate
- ARCHEAN ACID INTRUSIVE ROCKS
 - 4 Red & grey feldspar porphyries
 - 5 Gabbro, diorite, peridotite, pyroxenite
- (TIMISKAMING)
 - 2 CONGLOMERATE, QUARTZITE, GREYWACKE
- KEEWATIN
 - IF IRON FORMATION
 - 1 Volcanic greenstones
- Geological boundary
- Strike of vertically dipping beds & flows
- Strike dip of beds or flows
- Edge of steep rocky scarp
- Iron or Copper Sulphide Occurrence
- Grade and road
- Shore of Lake

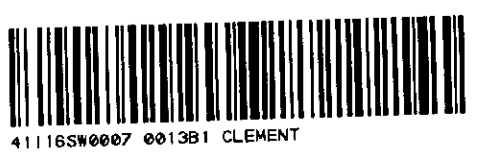
ONE INCH = 1/4 MILE

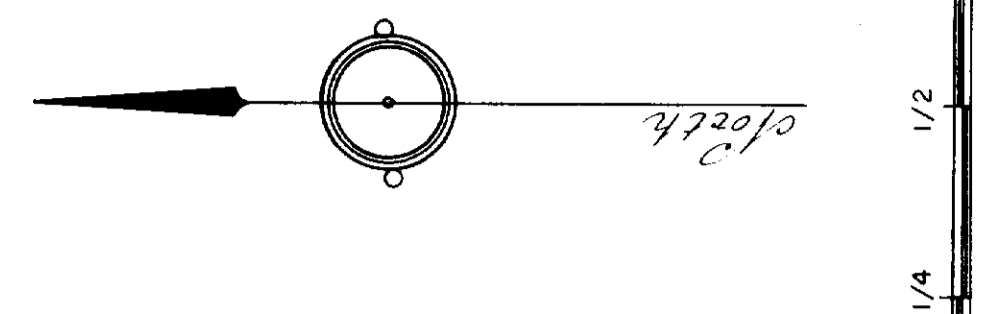
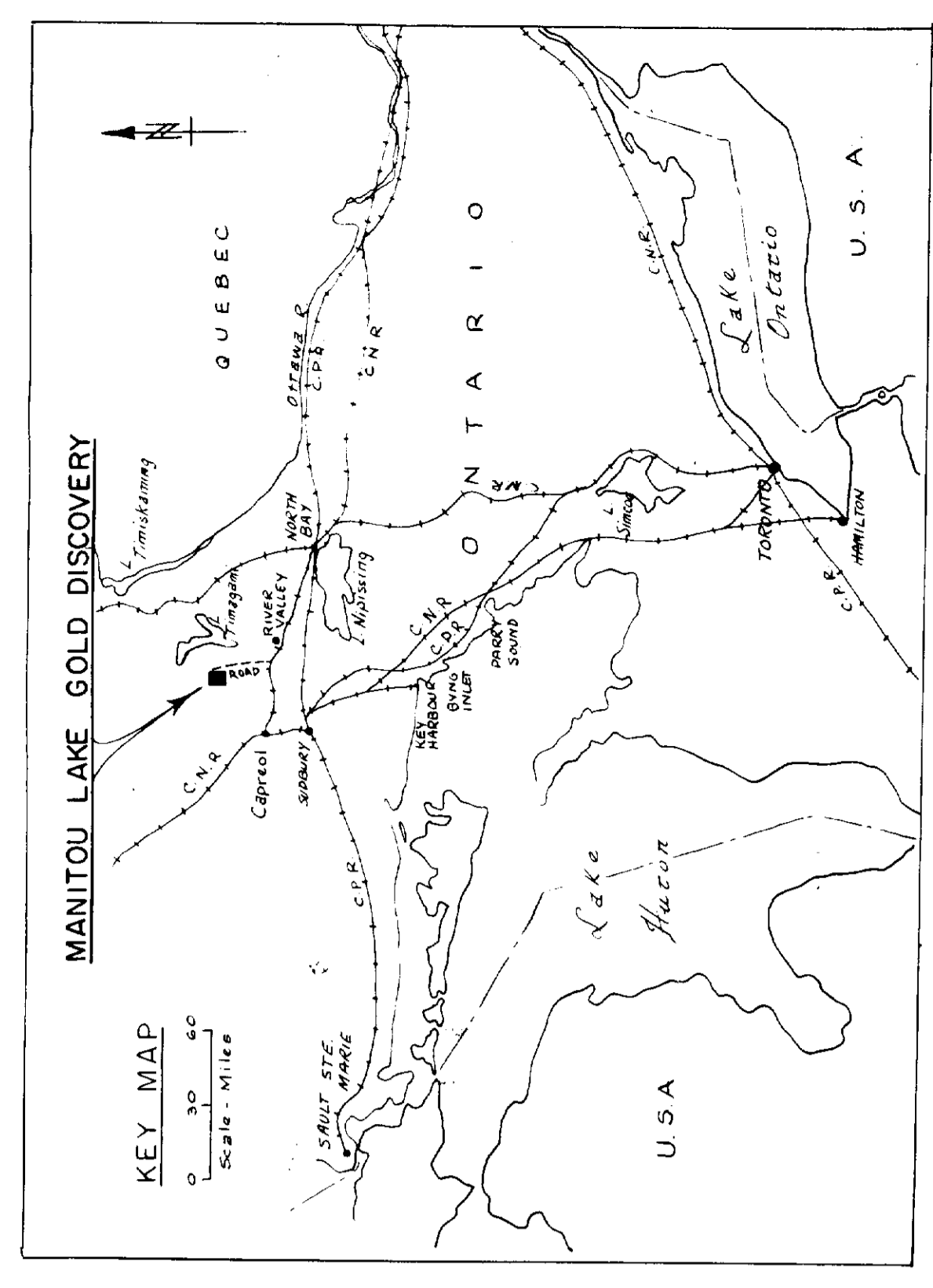


PRELIMINARY SKETCH
 IN RELATION TO
 GOLD DISCOVERY NW. OF MANITOU LAKE
 Feb. 15, 1963
 REVISED Feb 28, 1964.

- REFERENCES
- 1 Field reconnaissance L. Leger & A.S. Bayne
 - 2 Geology - Afton - Scholles Area E.S. MOORE Vol XLV Pt VI 1936 Ont. Dept. of Mines
 - 3 Map 505G Lake Timiskaming, Aeromagnetic Series, 1967 Geol. Survey of Canada
 - 4 Mining Records Claim Maps Jan 7, 1963
 - 5 Reports & Maps Assessment Work files Ont. Dept. of Mines File Nos 63-110 63A-369, 63-396, 63-721, 63-1076
 - 6 Sampling sketch by A.S. Bayne Feb 15, 1963

CLEMENT 13-B1-#2 TS-211





LEGEND

- CENOZOIC**
- PLEISTOCENE & RECENT
 - Swamp & Muskeg
 - Sand, gravel, clay, till, drift
 - GREAT UNCONFORMITY —
 - PRE-CAMBRIAN
 - PROTEROZOIC
 - KEEWEENAWAN and MATAHAWAN (pre-Huronian)
 - 7 Diabase
 - INTRUSIVE CONTACT —
 - HURONIAN SYSTEM
 - COBALT GROUP
 - LORRAIN FORMATION
 - 6 Quartzite, arkose
 - GOWGANDA FORMATION
 - 5 Conglomerate, arkose, graywacke, slate
 - UNCONFORMITY —
 - ARCHAIC
 - ACID INTRUSIVE ROCKS
 - 4 Red & grey feldspar porphyries
 - BASIC & ULTRABASIC INTRUSIVE ROCKS
 - 3 Gabbro, diorite, peridotite, pyroxenite
 - INTRUSIVE CONTACT —
 - SEDIMENTARY ROCKS (TIMISKAMING)
 - 2 Conglomerate, Quartzite, greywacke
 - KEEWATIN
 - IF Iron formation, Magnetite, hematite, interbedded quartz, chert, Jasper, Pyritized
 - I Volcanic greenstones, andesite, basalt, phyllite, with interflow sedimentary rocks.

SYMBOLS

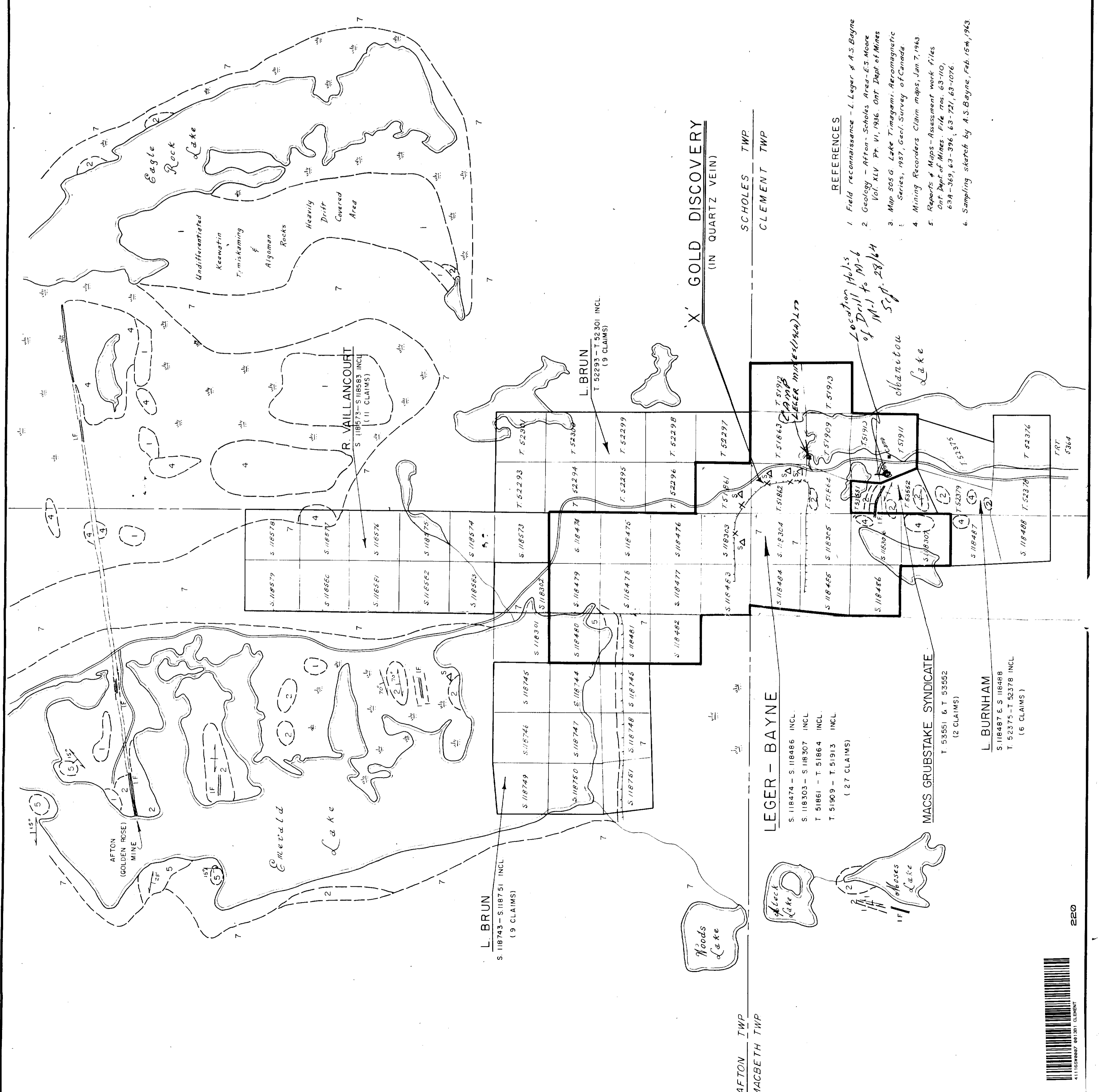
 - Geological boundary defined & assumed (boundary of outcrop area)
 - Strike of vertically dipping beds & flows
 - Strike & dip of beds or flows
 - Edge of steep rocky scarp
 - Iron or Copper sulphide occurrence
 - Gravel auto road
 - Shore of Lake or Pond

PRELIMINARY SKETCH
 — SHOWING —
 GENERAL GEOLOGY OF AFTON-SCHOLES AREA
 — WITH —
 ADDITIONAL GEOLOGICAL FEATURES WEST OF MANITOU LAKE
 — IN RELATION TO —
GOLD DISCOVERY N.W. OF MANITOU LAKE
 SUDBURY-TIMISKAMING MINING DIVISIONS, ONTARIO

TORONTO CANADA
 FEBRUARY 15, 1963
 REVISED FEBRUARY 28, 1964

A. S. BAYNE & COMPANY
 CONSULTING ENGINEERS

Marked up to show location of drill holes
LEGER MINES (1964) LTD
28/9/64



- REFERENCES**
- Field reconnaissance - L. Leger & A.S. Bayne
 - Geology - Afton-Scholes Area - E.S. Moore Vol. XIV Pt. VI, 1936. Ont. Dept. of Mines
 - Map 805 G. Lake Timiskaming. Aeromagnetic Series, 1937, Geol. Survey of Canada
 - Mining Records Claim maps, Jan 7, 1963
 - Reports & Maps - Assessment work files Ont. Dept. of Mines. File nos. 63-10, 63-361, 63-396, 63-721, 63-1076.
 - Sampling sketch by A.S. Bayne, Feb. 15th, 1963

LEGER - BAYNE
 S. 118474 - S. 118486 INCL.
 T. 51803 - S. 118307 INCL.
 S. 11861 - T. 51864 INCL.
 T. 51909 - T. 51913 INCL.
 (27 CLAIMS)

MACS GRUBSTAKE SYNDICATE
 T. 53551 & T. 53552
 (12 CLAIMS)

L. BURNHAM
 S. 118487 & S. 118488
 T. 52375 - T. 52378 INCL.
 (16 CLAIMS)

'X' GOLD DISCOVERY
 (IN QUARTZ VEIN)

SCHOLES TWP
 CLEMENT TWP

