



41115SE0026 W9470.00042 RATHBUN

010

DDH: RL 94-01

DIP: -45°

SIZE: BQ

DIP TESTS: None

ELEVATION: ~2m above ^{assumed} location of DDH RL 86-4 & Rathbun Lake Elev.

LOCATION: 15m East of DDH RL 86-4 (which is ~70m @ 010° from

old shaft) on upper road;

Claim 1117306

AZIMUTH: 090°

DEPTH: 225' (68.60m)

COMPANY: FLAG RESOURCES (1985) LTD.

DRILLED BY: Triangle Drilling Co., Lively, Ontario

DATE STARTED: March 3/94

DATE FINISHED: March 8/94

LOGGED BY: Frank H. Toews, B.Sc.

Note: - Casing of RL 86-4 not found (pulled? or knocked out?)
at location on lower road, chained from north edge of shaft

- RL 94-01 spotted on instructions from M.C.M.
- Hole stopped due to broken ground requiring cementing
- Casing left in hole
- Core at Erana Mines, Lively, Ontario

0-15'
(0-4.57m)

CASING | Boulders, cobbles; bedrock @ ~14' (?)

14-1029'
(4.27-31.37m)

NIPISSING GABBRO

Mainly dark greenish grey, chloritic, moderately soft to moderately hard, with more locally soft and strongly chloritic ^{parts} over 0.1-0.6'; rocks are medium grained to finer grained (2-3mm to 1mm); patchy weak to moderately magnetic sections (occasionally magnetite grains are visible); occasional weakly disseminated Pyrrhotite, Chalcopyrite and/or Pyrite, very locally up to 1%; some disseminated hematite alteration as well as on some fractures & slips & laminated with few reddish to pink carbonate veinlets; occasional epidote veinlets up to 5mm wide; chlorite fractures and seams (hairline to 2mm wide mainly) occur throughout, some with carbonate but more often with hematite @ various angles between 10° to 70° to C.A., but more so @ ~50-60° and ~20-30° to C.A. (less than 1/foot to 2-3/foot, mainly)

15'

3mm wide laminated dull dark red hematite and white carbonate veinlet @ 25° to C.A. with halo of altered, red (hematite, red) feldspars up to 1.5cm wide (feldspars normally light grey to slightly pale greenish) Chlorite fractures @ 50-60°, 15°, 30°, 70° to C.A.; 5-7/foot Minor Pyrite grains

24.5-26.4'
(7.47-8.05m)

31.6'

- 33-35.8' 50% darker grey, soft, chloritic altered, hazy sections with several intervening sections with coarser grained (2-3 mm) ^{gabbro} with pale reddish (probably hematitic) feldspars; butte contacts @ 50-60° to CA.; chloritic fractures/slips @ 55-65° mainly, some with hematite
 33.6' - earthy bright red hematitic slip with locally more intense red alteration to feldspars along slip
 34.1' - 1.5 cm wide band of orange-red feldspar alteration @ 60° to CA.
 35.8' - 2 mm wide carbonate-chlorite-hematite veinlet @ 60° to CA. near lower contact
 41.2' +/- Locally, 1/2% disseminated Pyrite and Chalcopyrite (?) near a chloritic seam, 3 mm wide @ 10° to CA.
 45.2-45.5' Minor (< 1/2%) disseminated Pyrite and Chalcopyrite (?)
 50.7' 1-2% disseminated Pyrite associated with 1-2 mm wide shear @ 45° to CA.
 52.8'-53.2' Minor disseminated Pyrite and Chalcopyrite in gabbro; feldspars pale greenish, epidotized.
 52.9' - Epidote +/- chlorite +/- hematite alteration veinlet @ 60° to CA.,
 52.6-53.1' Chlorite-carbonate fracture @ 15° to 0° to CA. with minor Pyrite; cuts epidote veinlet @ 52.9' and pink carbonate veinlet @ 53'
 53-53.6' Two 1-3 mm wide, pinkish carbonate veinlets with hematitic margins or laminations @ 10-15° and 30-35° to CA.; veinlets are sub-parallel, and in opposition to epidote veinlet at 52.9' and to the Chlorite-carbonate-pyrite fracture at 52.6'
 54.8-55' Several 1-2 mm wide pink carbonate veinlets and gashes @ ~ 50-60°, 40°, 10° to CA.
 55.8-57.7' Chloritic slips with earthy red hematite and hematite stain @ 60-65°, 50°, 25-35° to CA.; 6-12/foot
 59.7-60' Partly laminated pinkish carbonate, dull red hematite and some chlorite, veinlet, ≤ 4 mm wide, somewhat sinuous @ about 20-35° to CA.; chloritic alteration stronger near veinlet; some chlorite +/- carbonate +/- dark red hematite fractures parallel to veinlet in vicinity
 61.6-61.8' Locally < 1% disseminated Chalcopyrite and Pyrite
 65.2-67.2' Several, 1-2 mm wide quartz-carbonate-chlorite veinlets @ 15-20° to CA. with narrow epidotized haloes +/- or shears, minor Pyrite grains in or near veinlets; also some hematite present in veinlets which are cut by a few carbonate-chlorite-hematite fractures @ 50-60° to CA.
 67.3' Minor disseminated Chalcopyrite (and Pyrrhotite?)

67.5-67.8'	10% disseminated, dark, dull red hematite alteration @ about 20° to CA. ~ parallel to a chloritic slip @ 25° to CA. at 67.8', host rock is softer more chloritic
68.5-68.9'	Partly braided, bright red hematite and chlorite seams, 2 mm wide @ parallel to sub-parallel to C.A.
~70'-92' (21.34-28.05 m)	Generally, gabbro often weakly to moderately magnetic; finer grained (1-2 mm) Rocks fractured with chlorite (+/- carbonate) fractures and seams (≤ 1 mm) @ 55-65°, 75°, 25-35° to C.A., mainly; often 5-10/foot; occasional slip
	74.5-76' (+/-) - Some fractures with red hematite and chlorite @ 60-70°, 15-25°
	77.6' - Earthy, red hematite with chlorite seam @ 40° to C.A.
	85.6' (+/-) Earthy, red hematite with chlorite seam @ ~ 20-25° to CA. (broken core)
	89' (+/-) - laminated carbonate-dull red hematite veinlet, ~2 mm wide @ 50° to CA.
	90.2' - Several chlorite seams @ 60° to CA., one with carbonate and hematite (slip), and epidote alteration to feldspars in 1 cm wide band parallel to seams
92-98' (+/-)	91' - chlorite-hematite seam @ 25° to CA Some - scattered weak to moderate epidotization in narrow bands (≤ 5 mm) and seams @ 60°, 15-35° to C.A. in finer grained, dark grey to greenish grey, non-magnetic gabbro
92-102.9'	Non-magnetic, finer grained (1 mm +/-), medium greenish grey gabbro with epidote alteration veinlets, 1-5 mm wide, @ 60-70°, 20-30° to CA, becoming numerous below 100'; some covered by carbonate-chlorite +/- hematite fracture fillings Several chlorite-carbonate-hematite fractures @ 5-10° to CA. below 100'
	101.8-102.9' - Gabbro is fine grained, soft, chloritized, dark greenish grey, possibly chilled
	102-102.6 - Carbonate breccia vein, 2-3 cm wide @ 15° to CA. with ²⁰ angular wall rock fragments 0.2-2 cm in size; carbonate is reddish to white with some dull, dark red hematite clots and fracture fillings and rims about wall rock fragments; some 1-2 mm wide carbonate veinlets branch from main vein
	102.9 - contact @ 20° to CA. partly formed by two, 1-5 mm pinkish to reddish carbonate + hematite veinlets sub-parallel to contact and breccia vein at 102' wider portions of veinlets contain fragments

102.9-121'
(31.37-36.89m)

GOWGANDA FORMATION - MASSIVE WACKES

Dark greys, fine to medium grained (≤ 0.5 mm), moderately soft, non-magnetic becoming weakly to moderately magnetic from about 109'; rocks occasionally bedded @ 25-30° to C.A.; some pinkish to reddish carbonate veinlets (+ hematite), 1-5mm, @ 60-75°, 15°, 45° to C.A. to about 110'; rocks fractured (+ chlorite + hematite + carbonate) @ 70-75°, 50-60°, 30-40°, 15° to C.A.; 3-8/foot

102.9-103.7

2-3% red (hematitic) feldspar clots or impregnations plus some quartz blebs
102.9-103.1 - reddish hematitic alteration sub-parallel to contact, with dark green chloritic veinlet (gabbro?) ≤ 5 mm wide in central part containing a few small fragments of wall rock

112.4'

Minor Chalcopyrite on chloritic slip @ 60° to C.A.

114.3' (34.85m)

Sandy, mud seam < 3 mm wide @ 30-35° to C.A.

117.7

Chloritic lense 1.5 cm long with disseminated Pyrite

121-165'
(36.87-50.30m)

GOWGANDA FORMATION - LAMINATED TO VERY THINLY BEDDED WACKES

Dark greys ^{to greenish greys} (+ lighter laminations), fine to medium grained, moderately soft, moderately to more strongly magnetic, laminated to very thinly bedded @ 15-35° to C.A. (mainly 20-25°); some scattered quartz-feldspar lenses and wedges < 0.5-1.5 cm thick, often epidotized and some with disseminated Pyrite or Pyrrhotite or Chalcopyrite; a few scattered pinkish carbonate veinlets, and gashes ≤ 1 mm wide @ 60-70° to C.A. Fractures - chloritic + carbonate + hematite @ 70-75°, 50-60°, and 15-30° (parallel to bedding); 1-2 to 4-5/foot

122.4-122.8'

Partly reddish (hematitic) and epidotized gabbroid(?) veinlet @ sub-parallel to C.A., cut by epidote veinlet @ 70° to C.A. with halo plus hematitic alteration.

126.6

Epidote-chlorite-hematite veinlet @ 65° to C.A. with bleached halo ≤ 1.5 cm wide; cross-cuts bedding.

138.5-139.2

Epidote (+ hematite) alteration veinlets @ 60-75°, 0-10° to C.A. some offset by fractures/slips parallel to bedding

158-165

Morie' medium bedded wackes

165-225
(50.3 - 68.6m)GOWGANDA FORMATION - WACKES, FRACTURED,
WITH FAULT/BRECCIA ZONES

Wackes are dark greenish gray ^{chloritic} with sections having a dark brownish hue (along some beds and about fractures and in portions of breccia matrix) due to hematitic alteration; rocks are fine to medium grained, moderately soft to soft, thinly laminated to medium bedded with brecciated sections; bedding orientations @ 15-20° to C.A. mainly;

The brecciated sections occur between about 181'-214' and vary in length from several feet to more localized over 0.1-0.5'; sometimes breccia veins appear to parallel bedding; breccia matrix is often a combination of chlorite - white to pinkish-reddish hematitic carbonate and dull, dark red to reddish brown hematite < 5-10 mm wide, but each of these can be predominant, decreasing in amounts to veinlets or gashes away from the main zones of brecciation; breccias can ^{also} appear to be "crackle" zones; fragments are generally angular, strongly chloritized and soft of ranging in size from 0.2 to several cm. mainly; earthy hematite is often present in the breccia zones; breccia sometimes friable. The wackes are cut by often numerous fractures ± slips @ 10° to 70° to C.A. (about 30% broken core) which are chloritic ± carbonate ± hematite. The rocks are ^{variably} non-magnetic to moderately magnetic. Occasional specks of Pyrite.

165-175' Fractured, wackes, occasional bedding visible, occasional carbonate veinlet; broken core; 6 feet of core was ground

175-178.6' Broken core; ground core
~179' Some red (hematitic, albite?) feldspar grains. 2-3 mm in size; bedding @ 20° to C.A. in vicinity

~181' Brecciation begins at slip contact @ 10° to C.A.
181-192' Main breccia zones; chlorite-hematite
(55.18-58.54m) matrix with a little carbonate except for portion between about 183-184.5' where about 10% carbonate is present in matrix; approximately 25% broken core

~191.6-192' - irregular, 0.5-1.5 cm wide carbonate vein ± fragments @ ~10° to C.A., in breccia
192-196' Weaker brecciation, in part due to chlorite-hematite fracturing; some brecciation occurs as veins more or less parallel to bedding @ 10-15° to C.A.

197.6-198' ~ 20% irregular, angular carbonate veining and brecciation of wackes; veins < 1 mm - 2 cm wide
 201' (+) Local carbonate gashes and weak brecciation.
 204' (+) Similar to 201'
 211-214' (+) Several local sections of brecciation with
 (4.33-65.24m) chlorite-hematite +/- carbonate matrix in broken core;
 215-225' Fractured and broken core in wackes; some bedding @ 10-15° to CA; about 5' of ground core.

225' (68.6m) END OF HOLE

Note: hole cannot continue without cement job(s).

Frank H. Toews, B.Sc.

Frank H. Toews

Geologist

Azi 090°

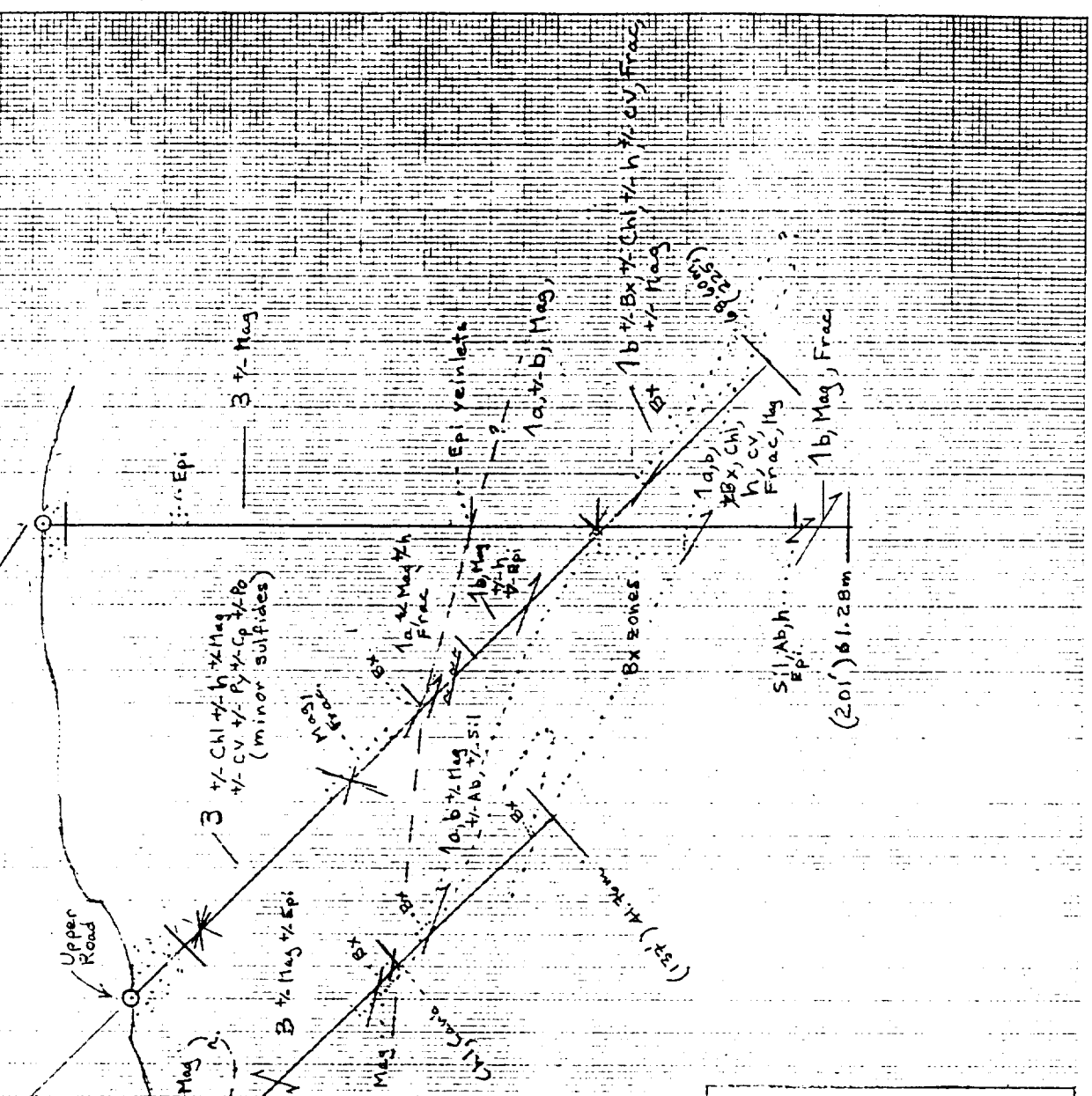
RL 86-4 (145°)
(Casing not found)

RL 94-01 (-45°)

RL 94-03 (-90°)

RATHBUN LAKE

Upper Road
Lower Road
Sullivans
E. Reeds



FLAG RESOURCES (1985) LTD.

SECTION THROUGH D.D.H. RL94-01
RL86-4 and RL86-4
RATHBUN TOWNSHIP
Rathbun Lake Area

Scale - 1 : 500 Mar. 1994

0 10m FHT
0 25ft

RATHBUN LAKE

1117309

1117500

1117306

1117307

RL94-01 (-45° E)

RL86-4 (-45° E)

RL94-03 (-90°)

RL92-1 (-70° W)

Old Shaft

0+00

Old Baseline

1+00mS

2+00mS

1117306

1117501

RL94-02 (-60°, Azi 260°)

RL86-8 (-45°, Azi 260°)

3+00mS



FLAG RESOURCES (1985) LTD

Location Sketch

D.D.H. RL94-01, -02 & -03
RATHBUN TOWNSHIP

Claims 1117306 & 1117501
Scale - 1 : 2000 Mar/94

0 50m

0 100ft

FHT

D.D.H. LEGEND

3 Nipissing Gabbro

GONGANDA FORMATION

1 Wacke

a - massive

b - laminated to thinly bedded

(Abbreviations where applicable)

Ab Albitization
Carb Carbonate
Chl Chlorite
Epi Epidote
h Hematitic
Sil Silicification
Cp Chalcopyrite
Po Pyrrhotite
Py Pyrite
Mag Magnetic
qv Quartz veinlets
qcv Quartz-carbonate veinlets

Frac Fractures

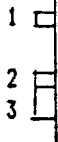
↙ Bedding orientation
(relative to core axis)

↘ Foliation
(relative to C.A.)

~~///~~ Fault or mud seam
(relative to C.A.)

— Other structures

Sample No.





D.D.H.: RL 94-02

DIP: -60°

SIZE: BQ

DIP TESTS: None

ELEVATION: Approx. same as RL 86-8 (Estimated @ about 40 m above Rathbun)

LOCATION: ~ 3m @ 080° from RL 86-8 collar picket; ~ 15m E of B.L.0/2+65m S Rathbun Twp., Rathbun Lake Area, Claim 1117501

COMPANY: FLAG RESOURCES (1985) LTD.

DRILLED BY: Triangle Drilling Co., Lively, Ontario

DATE STARTED: March 9/94

DATE FINISHED: March 10/94

LOGGED BY: Frank H. Toews, B.Sc.

Note: - Casing left in hole

- Hole drilled below RL 86-8 in order to test for a possible sulfide-bearing intersection continuation
- Hole stopped on instructions from M.C.M.

0-5' (0-1.52m)

CASING | Boulders, cobbles of gabbro and wacke

5-46' (1.52-14.02m)

NIPISSING GABBRO

2-3 mm

Dark to medium-dark greys, sometimes with greenish hue; medium grained; ~50% grey-white (+/- greenish) feldspar; ~50% (+/-) grey to black to greenish mafic minerals (pyroxene-amphibole); some magnetite grains and clusters visible; occasional more felsic segregation; rocks are moderately hard; chlorite fractures @ 50-60°, 35-45°, 10-20° (1/2 feet to 2-3 feet); rocks weakly to locally moderately magnetic

5-8' +/- | Limonitic fractures @ 0-5°, 15-20°, 55-60° to C.A.; some broken core

18.2-19.5' | Greenish grey; pink to greenish feldspars
18.7' - 1 cm wide epidote alteration veinlet @ 55-60° to C.A., cut by a few fine Pyritic fractures

44.1-44.9' | Three, 1-2 mm wide, quartz-carbonate veinlets @ 60°, 50° to C.A.; bleaching haloes with pale green feldspars

46' | Gradational contact

46-203' (14.02-61.89m)

NIPISSING GABBRO

Variable; dark to medium-dark greys with some greenish to brownish hues; fine to medium grained (1-3 mm); rocks more mafic in part (~30-50% grey-white feldspars; ~50-70% dark grey +/- brownish to greenish mafic minerals); some sections with coarse grained felsic segregations as ^{small} patches & irregular veinlets; rocks moderately hard to locally soft; weakly to moderately magnetic (some magnetite grains and clusters visible)

ctd.
 Scattered quartz-carbonate veining (+/- minor sulfides)
 0.1 - 4 cm wide @ $85-60^\circ$ to C.A., minor scattered
 disseminated Pyrrhotite, Chalcopyrite and Pyrite, very
 locally up to 1%, sometimes associated with slips;
 Chloritic fractures +/- slips, some with carbonate films
 @ $10-75^\circ$ to C.A. ($< 1/2$ feet to 2-3/foot mainly);
 also some chlorite seams 1-2 mm wide

48-50'	< 5% irregular to more uniform quartz-carbonate veinlets @ $50-65^\circ$ and occasionally sub-parallel to C.A.; widths are 1-3 mm; some may be felsic segregation veinlets; host rocks are fine grained, dark greenish (soft) to brownish in colour; occasional sheared veinlet; rocks cut by chloritic fractures +/- slips @ $60-70^\circ$, $40-50^\circ$, $25-35^\circ$ and $5-10^\circ$ to C.A.
50-52'	Chloritic fractures @ $60-70^\circ$, $10-15^\circ$ to C.A.; 5-8/foot
58.5-60.2'	Chlorite (+ talc?) seam @ sub-parallel to C.A.
63.5-92' (19.36-28.05m)	Scattered felsic segregations, medium to coarse grained (25% of section)
63.9-66'	light greenish grey, altered host rocks with $\leq 5\%$; often sheared quartz- carbonate veinlets 1-5 mm wide @ $20-25^\circ$ and $40-50^\circ$ to C.A. (one with minor Pyrrhotite)
66.2-79'	Fracture zones (chlorite +/- carbonate) with fractures @ $50-60^\circ$, $35-40^\circ$, 15° to C.A., one @ $0-5^\circ$ to C.A.; 2-6/foot
95.9'	Carbonate-chlorite fracture @ 70° to C.A. with Pyrite and Chalcopyrite; minor Pyrrhotite grains in vicinity
100.6'	1.5 cm wide, sheared quartz-carbonate veinlet @ 70° to C.A. with disseminated, magnetic Pyrrhotite and minor Chalcopyrite
114.6-118 1/2'	Chloritic fractures @ 60 , 75° , $40-45^\circ$, 25° , 10° to C.A. 5-8/foot
115'	Generally only sporadically weakly magnetic below 115
125-205'	Often fractured by chlorite (+/- talc?) fractures +/- slips @ $60-70^\circ$, $25-35^\circ$, $15-20^\circ$ to C.A.; 2-8/foot
132.5-133.1'	Two(?) sheared quartz-carbonate veinlets 0.3-1.5 cm wide @ $65-70^\circ$ to C.A. in locally softer light greenish grey altered gabbro; minor disseminated Pyrrhotite in veinlets
161'	Chlorite-quartz seam @ 20° to C.A. (with minor Chalcopyrite) parallel to $20-25^\circ$ fractures, intersected by a chloritic fracture with minor Pyrrhotite @ 25°

165.9 - 167' ±	Several 0.1 - 0.5 cm wide, quartz carbonate veinlets @ 75° and ~20° to CA (some in broken core) the one @ 75° to CA. is cut by a parallel fine Pyritic fracture filling
168 - 173.8' (51.22 - 52.99 m)	Twelve, 1 - 3 mm wide quartz-carbonate veinlets and gashes @ 35-45°, 60°, 75° to CA. in medium to light greenish grey, moderately soft to locally soft, altered gabbro; minor magnetic, disseminated Pyrrhotite occurs in several veinlets
171.5 - 171.7'	Sheared, partly brecciated quartz-carbonate veinlets up to 1.5 cm wide in zone @ 55-60° to C.A.; a few, fine Pyrrhotite fracture fillings cut the veining
176.6'	2 mm wide, quartz-carbonate veinlet with minor Pyrite grains @ 60° to C.A.
178.6'	Pyrrhotite-chalcopyrite blobs (small) associated with 1-2 mm wide quartz-carbonate veinlet @ ~70° to CA.
178.8' (54.51 m)	3-5 cm wide zone of sheared, quartz-carbonate veining with well rock inclusions; veining @ 65-75° to CA. and contains 2-3% small magnet disseminated magnetic Pyrrhotite +/- Chalcopyrite; several 1-2 mm wide branch veinlets also contain minor sulfides and the main veining is cut by a chlorite-carbonate seam @ 10° to CA. with minor chalcopyrite; gabbro is light greenish grey, altered in vicinity of veining
179.9'	1-3 mm wide sheared quartz-carbonate veinlet(s) @ 35-45° to C.A.; minor disseminated Pyrite in veinlet
184.5'	2-3 mm wide sheared quartz-carbonate veinlet @ 65° to CA. with some disseminated Pyrrhotite and Chalcopyrite
190' ±	2 mm wide sheared quartz-carbonate veinlet @ 60° to C.A. with some disseminated Pyrite
195.7' - 196.1' ±	2 mm wide quartz-carbonate veinlet @ 60-65° to CA. with minor disseminated Pyrrhotite
198.5 - 199.5	Several 1-2 mm wide quartz-carbonate veinlets @ 35-40°, 55-60° to CA., minor Pyrite or Pyrrhotite in one
201.6 - 202.5 (61.46 - 61.74 m)	Six quartz-carbonate veinlets and gashes @ 75°, 60°, 25° ± to C.A. 0.1-1 cm wide with minor disseminated Pyrrhotite and/or Chalcopyrite in several; possible mud seam @ 75° to CA. @ 202.5;

etc.

Rocks are medium greenish grey, altered gabbro in vein zone

203-387.5'
(61.89-118.14m)

NIPISSING GABBRO

Dark to medium greys; medium grained; moderately hard to moderately soft; occasionally weakly magnetic; occasional ^{local} minor disseminated Pyrrhotite and/or Chalcopyrite
 Chloritic fractures and narrow seams @ 15-70°C
 ~30-50% feldspars, locally more felsic
 Occasional quartz-carbonate veinlet, 1-5mm wide (barren)

222.8'
(67.93m)

≤ 5mm wide chlorite-quartz-carbonate veinlet @ 70° to C.A. with minor Pyrite and Chalcopyrite

229-237'
(69.82-72.26m)

Chloritic fractures @ 60-70°, 30-45°, 10-15°, 2-8' foot

271-273.4'
(82.62-83.35m)

Chloritic fractures similar to 229'
 one sub-parallel to C.A. with carbonate

305-308.5'
(92.99-94.05m)

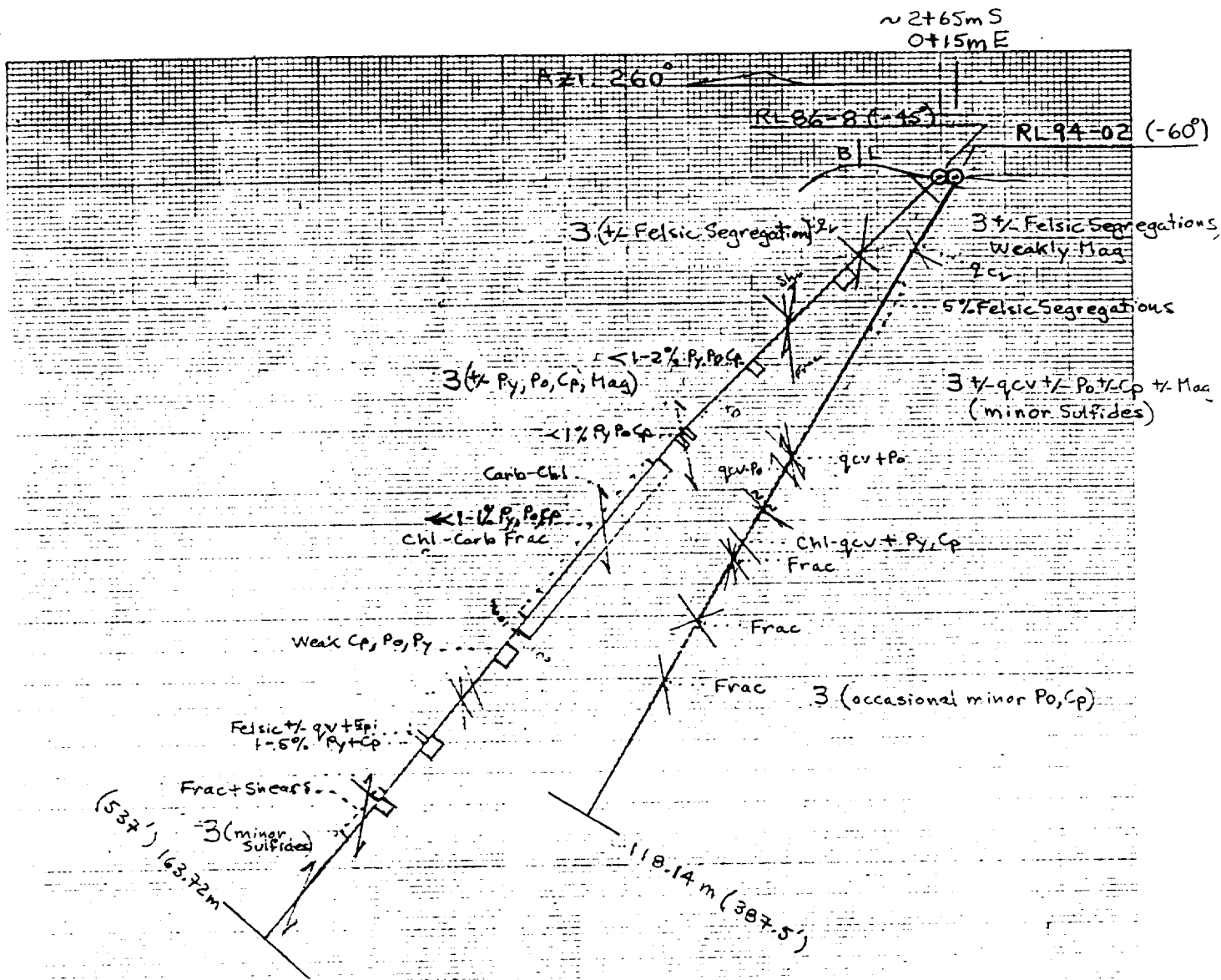
Chloritic fractures +/- carbonate @ 35-45°
 mainly 5-6' foot

387.5'
(118.14m)

END OF HOLE

Frank H. Toews, B.Sc.

Frank H. Toews
 Geologist



FLAG RESOURCES (1985) LTD.

SECTION THROUGH D.D.H. RL94-02
and RL86-8
RATHBUN TOWNSHIP
Rathbun Lake Area

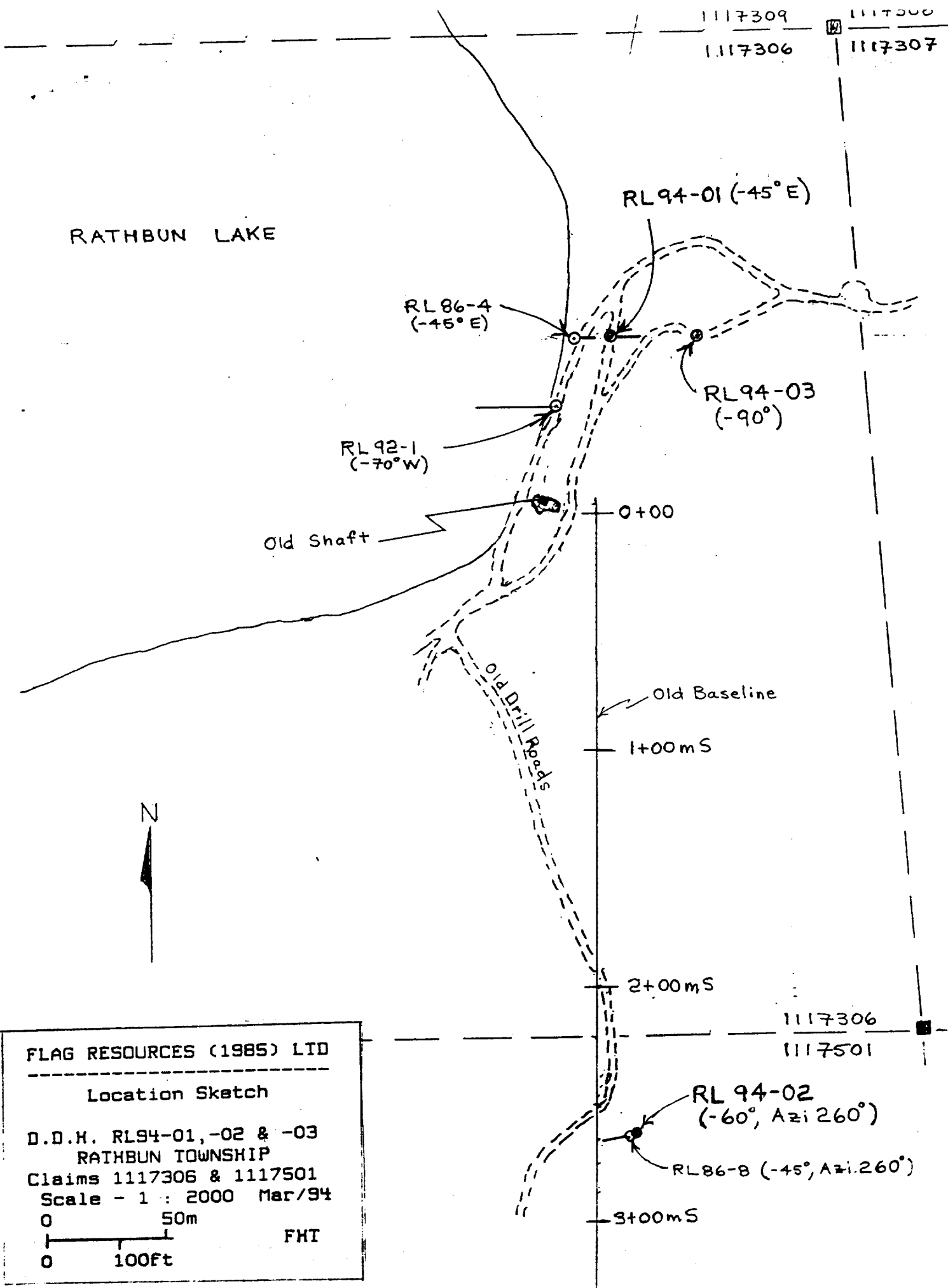
Scale - 1 : 1000

Mar. 1994

0 25m

0 50ft

FHT



FLAG RESOURCES (1985) LTD

 Location Sketch
 D.D.H. RL94-01, -02 & -03
 RATHBUN TOWNSHIP
 Claims 1117306 & 1117501
 Scale - 1 : 2000 Mar/94
 0 50m
 0 100ft
 FHT



4115SE0026 W9470.00042 RATHBUN

DDH: RL 94-03

DIP: -90°

SIZE: BQ

LOCATION: ~36 m East (@090°) of RL 94-01, on flatter part of knoll Rathbun Twp., Rathbun Lake Area, Claim 1117306

DIP TE

DEPTH: 201' (61.28m)

ELEVATION: ~7m above RL 94-01

COMPANY: FLAG RESOURCES (1985) LTD.

DRILLED BY: Triangle Drilling Co., Lively, Ontario

DATE STARTED: March 15/94

DATE FINISHED: March 17/94

LOGGED BY: Frank H. Toews, B.Sc.

Note: - Casing left in hole

- Hole spotted on instructions from M.C.M.

- Core at Erana Mines, Lively, Ontario

0-5'
(0-1.52m)

CASING | Boulders ^{cobbles,} clayey sand; bedrock @ 3'

3-106.9'
(0.91-32.59m)

NIPISSING GABBRO

Dark greys to greenish greys to medium colours; medium grained (1-2 mm) mainly, occasional coarser grained felsic segregation above 47'; ~40-60% grey-white to pale greenish feldspars; mafic minerals (pyroxene-amphibole) are medium to dark greenish-grey to black, chloritic in part; rocks are often weakly to moderately magnetic with some visible grains and clots of magnetite, occasional minor disseminated Pyrrhotite - Chalcopyrite or Pyrite; rocks are moderately hard to moderately soft. Chloritic fractures and chlorite seams (<1-2 mm wide) sometimes with carbonate, @ 10-20°, 30-40°, 50-60°, 70° to CH, less 1/foot to 2-4/foot; limonitic staining on fractures above 18'.

Epidote alteration zone present.

Gabbro is finer grained and more altered near contact with Gowganda wackes.

31.5-36' (4)
(9.60-10.98m)

Gradational contacts; Epidote alteration zone; more(?) felsic (~60% feldspar); feldspars are light to medium green and epidotized giving the rock a light green hue; also <1 to 5% pink to red (hematized, albitized?) feldspars and veinlets, some associated with chlorite-hematite +/- carbonate fractures and seams @ 0-10°, 55-60°, 30-35° to CH; rocks non-magnetic
31.7-32.1' - hazy textures due to chloritization
Some pink feldspars stand out in a greenish grey altered background.

54' ±	Mainly dark greenish grey from here down
51.6'	Carbonate-chlorite veinlet ≤ 3 mm wide @ 15° to CA, with minor disseminated Pyrite on margins.
62.7-63.3'	White and grey (some pink to red hematitic alteration) carbonate-green chlorite veinlet @ 15° to CA; veinlet 0.5-1.5 cm wide and splits; minor fine disseminated Pyrite in the veining which has a halo of hazy textured, chloritized, soft, alteration containing a few reddish feldspars
96.7'	Fractures contain some red hematite, more frequently from here.
100'	Gabbro is non-magnetic from about this point
105-106.9'	Gabbro is fine grained becoming finer grained and softer near poorly defined contact with wackes; anastomosing epidote alteration veinlets, < 1 to 5 mm wide @ $20-70^\circ$ to C.A. become numerous in this section
	106.9' - 2 mm wide hematitic carbonate veinlet and a hematitic alteration veinlet @ 75° to C.A.

106.9-138.2
(32.59-42.07m)

GOWGANDA FORMATION - MASSIVE WACKES +/- BEDDING

Dark grey to sometimes greenish grey; moderately to more strongly magnetic, generally; fine to medium grained (≤ 0.5 mm); some laminations visible @ $\sim 65^\circ$ to C.A.; some scattered, $< 1-2$ mm wide pink to reddish hematitic carbonate veinlets @ $35^\circ, 50-55^\circ, 70^\circ$ to C.A.; fractures with carbonate +/- chlorite +/- hematite @ $60-70^\circ, 25-35^\circ, 50^\circ$ to C.A. (less than 1/foot to 2-3/foot)

107-116.4'	A few small, epidotized felsic lenses and patches with some disseminated Chalcopyrite and/or Pyrite
108.3' (+/-)	local microbreccia formed by small epidote veinlets (+/- red carbonate) with a little chalcopyrite
124'	local stockwork of fine epidote veinlets with a little Pyrite
132.6-132.9'	Two epidotized felsic lenses ≤ 0.5 -1 cm wide with a little disseminated Pyrite or Chalcopyrite
134.6-138' (+/-)	Fractured (+/- carbonate +/- hematite) @ $60-70^\circ, 20-30^\circ$ to CA, up to 10/foot in upper part, some broken core in lower part.
137.7'	Epidotized bed, 5 mm wide @ 60° to CA, with some hematite and disseminated Pyrite; dark reddish brown hematite rags and fine fractures in vicinity
138' (42.07m)	Breccia contact (parallel to Epidotized bed at 137.7') along muddy hematitic; chloritic fracture

138 - 188'
(42.07 - 57.32m)

GOWGANDA FORMATION - WACKES, FRACTURED + FAULT/BRECCIA ZONES

Rocks are more massive to laminated to thinly bedded @ 55-65° to CA; dark greys, greenish greys (chloritic); dull reddish brown hematitic alteration along some beds, near fractures and in/near breccia zones, mainly to about 160'; rocks are fractured with numerous fractures (+/- slips) with chlorite +/- carbonate +/- hematite @ 60-70°, 40-50°, & some @ 0-15° to CA; 40-50% broken core; rocks are moderately soft to soft, variably magnetic; to non-magnetic (hematitic breccia zones); fine to medium grained (≤ 0.5 mm). Several breccia zones between 138' and 160' (approximately) 0-1 to ~1 foot long; breccias contain ^{soft} small (0.2-2cm+) irregular ^{wacke} fragments set in a variable matrix of hematite, chlorite and lesser reddish carbonate, decreasing to fine fracture fillings near the brecciation; some parts of breccias can be friable and/or contain broken core. Main brecciation between ~138-139' and ~157-159'. A few epidotized, felsic lenses scattered in wackes parallel to bedding; lenses are white to pale to light green. Some scattered, white to reddish (hematitic) ^{carbonate} veinlets and gashes < 1 to 3 mm wide in wackes. Occasional specks of Pyrite visible.

188 - 201'
(57.32 - 61.28m)

GOWGANDA FORMATION - WACKES

Wackes are dark grey to greenish grey to lighter greys; laminated to thinly bedded, moderately to more strongly magnetic, fine to medium grained (≤ 0.5 mm); bedding @ 55-65° to CA; rocks less fractured and core much better; fractures occur along bedding and @ 15-30° to CA; a few fine to narrow (<1-2mm) carbonate and epidote veinlets.

188 - 188.6' < 10% very hard, reddish, silicified and hematized or albitized laminations @ 55-60° to C.A.

189.5 - 189.7' Epidotized, silicified, hematized or albitized bands/shears @ ~40° to CA.

190 - 190.1' Hematitic fractures with hematitic alteration haloes @ 50° and 65° to C.A.

201'
(61.28m)

END OF HOLE

Frank H. Toews, B.Sc.

Frank H. Toews

Geologist

RATHBUN LAKE

RL 86-4
(-45° E)

RL 94-01 (-45° E)

RL 94-03
(-90°)

RL 92-1
(-70° W)

Old Shaft

0+00

Old Baseline

1+00mS

2+00mS

1117306

1117501

RL 94-02
(-60°, Azi 260°)

RL 86-8 (-45°, Azi 260°)

3+00mS

Old Drill Roads



FLAG RESOURCES (1985) LTD

Location Sketch

D.D.H. RL94-01, -02 & -03
RATHBUN TOWNSHIP

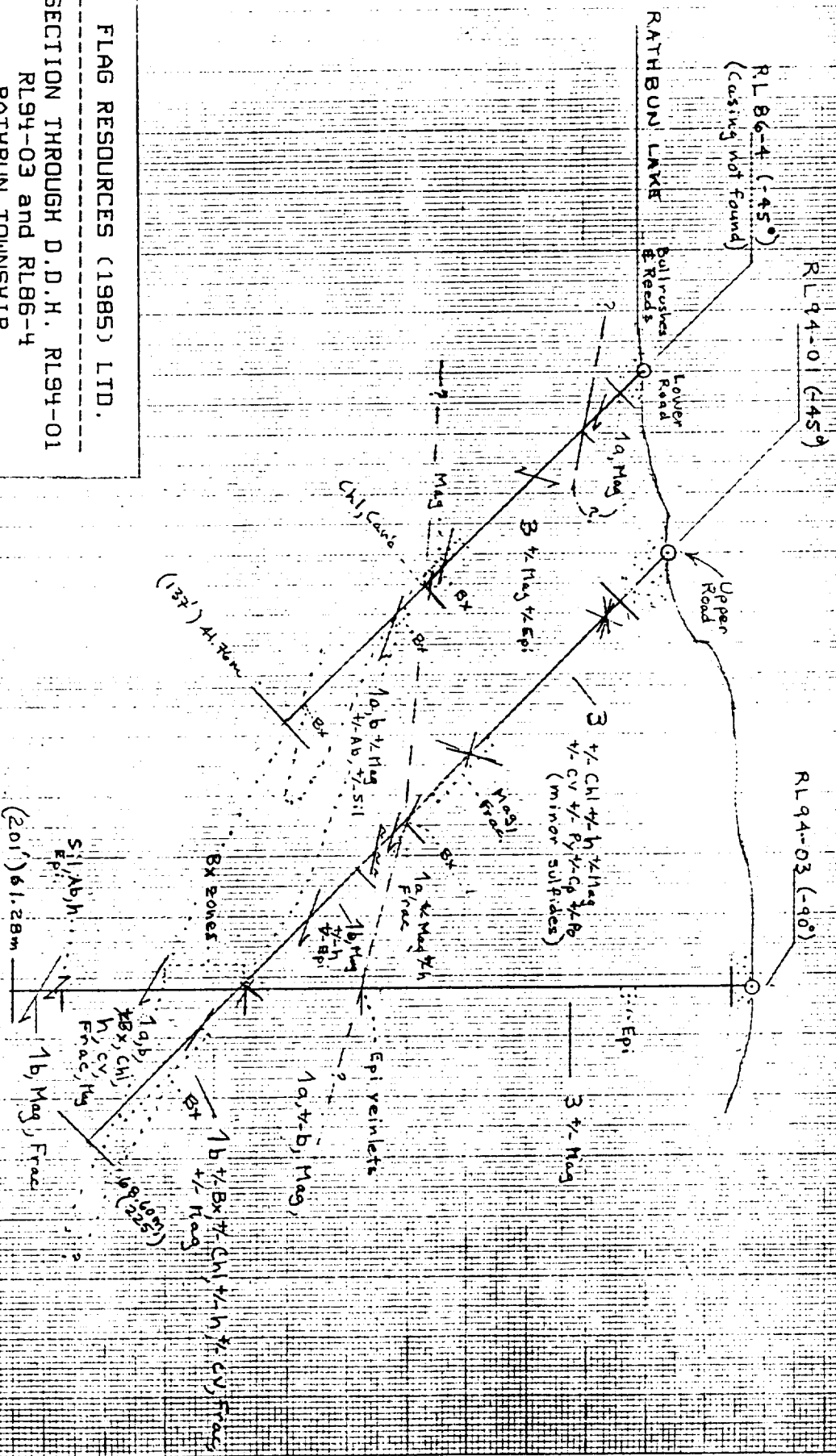
Claims 1117306 & 1117501
Scale - 1 : 2000 Mar/94

0 50m

0 100ft

FHT

1
1:21 090°



FLAG RESOURCES (1985) LTD.
SECTION THROUGH D.D.H. RL94-01
RL94-03 and RL86-4
RATHBUN TOWNSHIP
Rathbun Lake Area

Scale - 1 : 500 Mar. 1994

0 10m
0 25ft

FHT

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number
W9470.00042

Personal information collected on this form is obtained under the authority of the this collection should be directed to the Provincial Manager, Mining Lands, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.



- Instructions:**
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
 - A separate copy of this form must be completed for each Work Group.
 - Technical reports and maps must accompany this form in duplicate.
 - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) FLAG RESOURCES (1985) LIMITED		Client No. 132132
Address 1970-540-5th AVE S W		Telephone No. 403-762-8883
Mining Division SUDBURY	Township/Area RATHBUN	M or G Plan No.
Dates Work Performed From: Jan 15/94		To: March 17/94

Work Performed (Check One Work Group Only)

Work Group	Type
<input type="checkbox"/> Geotechnical Survey	
<input checked="" type="checkbox"/> Physical Work, Including Drilling	Surface Diamond Drilling
<input type="checkbox"/> Rehabilitation	
<input checked="" type="checkbox"/> Other Authorized Work	Geologist
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

RECORDED

APR 18 1994

Receipt _____

Total Assessment Work Claimed on the Attached Statement of Costs \$ 12,958⁰⁰

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
Frigo & Frilling	106 Fielding Road, Ont. P6M2E0
Frank Loers	Highway 537, Sudbury, Ont. P3E 4N1

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date April 15/94	Recorded Holder or Agent (Signature) <i>[Signature]</i>
--	----------------------------	--

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying
MURDO C. MCLEOD

Telephone No. 403-762-8883	Date April 15/94	Certified By (Signature) <i>[Signature]</i>
--------------------------------------	----------------------------	--

For Office Use Only

Total Value Cr. Recorded Applied \$ 6,600 Reserved \$ 6,358	Date Recorded APRIL 18/94	Mining Recorder <i>[Signature]</i>	<div style="border: 2px solid black; padding: 5px;"> <p style="text-align: center;">SUDBURY MINING DIV.</p> <p style="text-align: center;">RECEIVED</p> <p style="text-align: center;">APR 18 1994</p> <p>A.M. P.M. 7 8 9 10 11 12 1 2 3 4 5 6</p> </div>
	Deemed Approval Date July 17/94	Date Approved July 12/94	
Date Notice for Amendments Sent			



Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type		
	Drilling 10,878 Geologist 519		
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			11,398

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work. Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démoblisation			1561
Sub Total of Indirect Costs Total partiel des coûts indirects			1561
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			11,398
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs) Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)			12,959

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	x 0.50 =

Remises pour dépôt

- Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Evaluation totale demandée
	x 0,50 =

Certification Verifying Statement of Costs

I hereby certify: that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as President I am authorized (Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

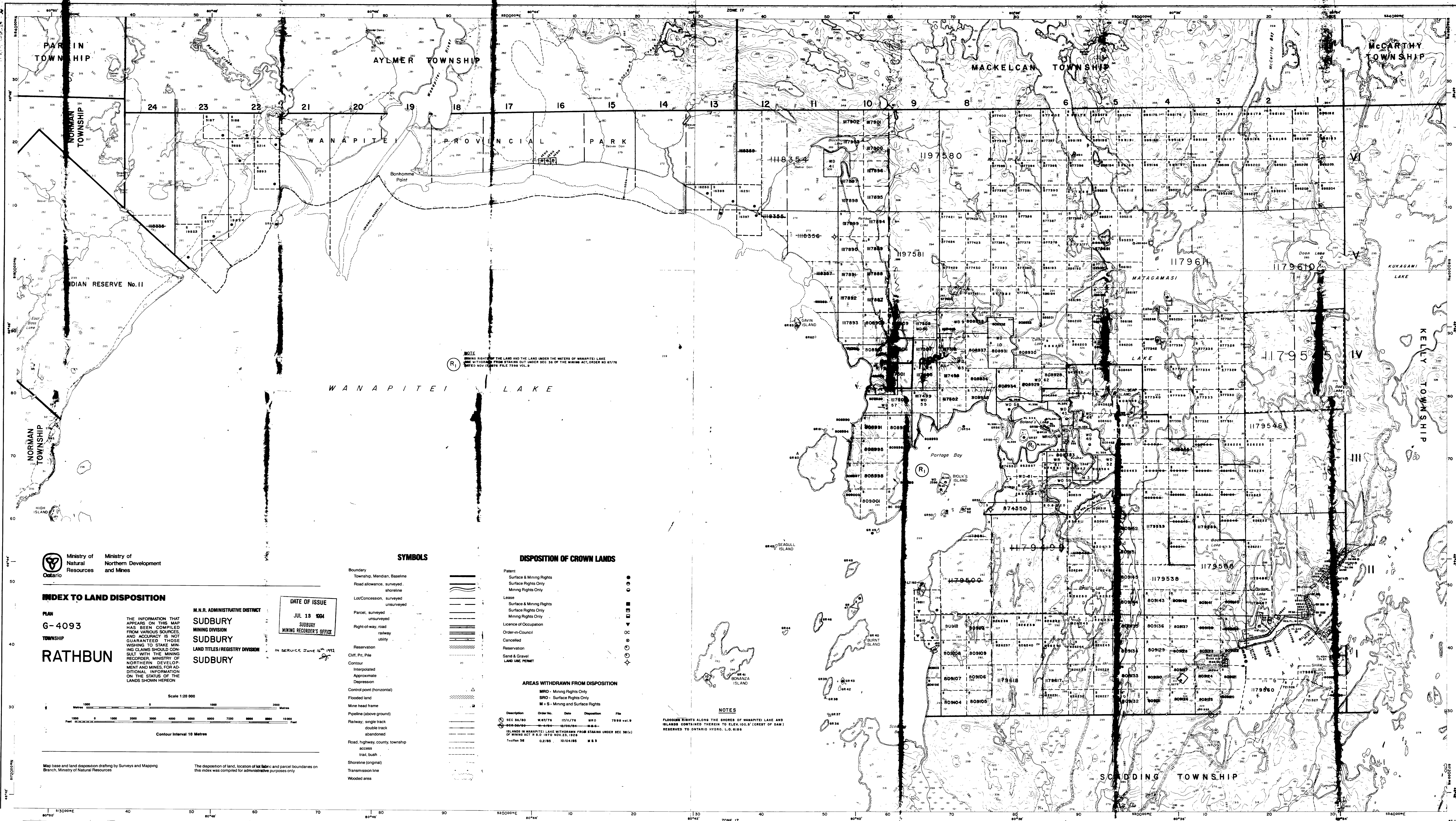
J'atteste par la présente : que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ je suis autorisé (titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature	Date
<u>[Signature]</u>	<u>Sept 13/1964</u>

Note : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.



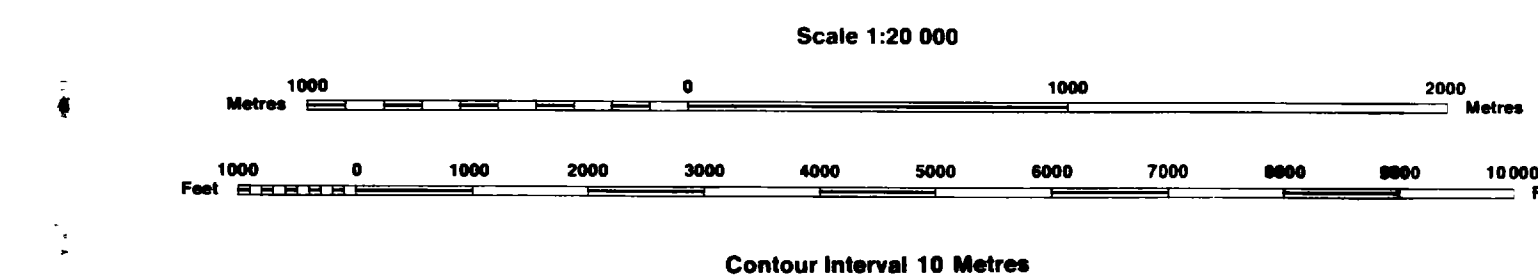
Ministry of Natural Resources Ontario Ministry of Northern Development and Mines

INDEX TO LAND DISPOSITION

PLAN G-4093 TOWNSHIP RATHBUN

M.N.R. ADMINISTRATIVE DISTRICT SUDBURY MINING DIVISION SUDBURY LAND TITLES/REGISTRY DIVISION SUDBURY

DATE OF ISSUE JUL 18 1984 SUDBURY MINING RECORDER'S OFFICE



Map base and land disposition drafting by Surveys and Mapping Branch, Ministry of Natural Resources. The disposition of land, location of lot fabric and parcel boundaries on this index was compiled for administrative purposes only.

SYMBOLS

- Boundary Township, Meridian, Baseline Road allowance, surveyed, shoreline Lot/Concession, surveyed, unsurveyed Parcel, surveyed, unsurveyed Right-of-way, road, railway, utility Reservation Cliff, Pit, Pole Contour Interpolated Approximate Depression Control point (horizontal) Flooded land Mine head frame Pipeline (above ground) Railway, single track, double track, abandoned Road, highway, county, township access trail, bush Shoreline (original) Transmission line Wooded area

DISPOSITION OF CROWN LANDS

- Patent Surface & Mining Rights Surface Rights Only Mining Rights Only Lease Surface & Mining Rights Surface Rights Only Mining Rights Only Licence of Occupation Order-in-Council Cancelled Reservation Sand & Gravel LAND USE PERMIT

AREAS WITHDRAWN FROM DISPOSITION

Table with columns: Description, Order No., Date, Disposition, File. Includes entries for MRO - Mining Rights Only, SRO - Surface Rights Only, and M+S - Mining and Surface Rights.

NOTES

FLOODING RIGHTS ALONG THE SHORES OF WANAPITEI LAKE AND ISLANDS CONTAINED THEREIN TO ELEV. 100.5' (CREST OF DAM) RESERVED TO ONTARIO HYDRO. L.O. 6185

NOTE MINING RIGHTS ON THE LAND AND THE LAND UNDER THE WATERS OF WANAPITEI LAKE ARE WITHDRAWN FROM STAKING OUT UNDER SEC 36 OF THE MINING ACT, ORDER NO. 87716 DATED NOV 17 1974 FILE 7388 VOL. 9

