010

Diamond Drilling

Township of PARKMAN

Report Nº 10

Work performed by: Iron City Mines

Claim Nº	Hole Nº	Footage	Date	Note
T 56532	1	102'	Nov/65	201 0354
	V-1	996'	Mar/66	201 0356/7
	V-3	775'	May/66	
	4	102'	Feb/66	201 0409
	4-A	108'	Feb/66	408
T 56625	V-2	1051'	Apr/66	201 0413/416
T 57276 & T 56532	2	103' 962.0'	Nov/65	201 0364/5
T 56531	7	836.0'	June/66	369/70
T 57411	11	860.0'	Aug/66	
	12	601.0'	Sept/66	
T 57414	13	656.0'	Sept/66	
		12 / 7152'		

Notes:

1 - Autopositive is enclosed

56/18299.5

Diamond Drilling

Township OF PARKMAN **Report Nº:** 10

Work performed by: ARNOLD HARDIE / VENTURES LTD. / IRON CITY MINES LTD.

Claim Nº	Hole Nº	Footage	Date	Note
T 44085	1	27.0'	May/59	(1)
	2	34.5'	May/59	(1)
	3	27.0'	May/59	(1)
	60-1	318'	July/60	(2)
	60-2	90.0'	Aug/60	(2)
	60-3	393'	Aug/60	(2)
	##-1	102'	May/66	(3)
	##-2	101'	May/66	(3)
	##-3	103'	June/66	(3)
	10	515'	Aug/66	(3)
T 44087	60-4	355'	Aug/60	(2)
T 44086	60-5	306'	Aug/60	(2)
T 47602	60-6	196'	Aug/60	(2)
	8	750'	June/66	(3)
	9	457'	July/66	(3)
T 57277	3-A	862'	Jan/66	(3)
T 53639	5	844'	Feb/66	
	6	117'	Mar/66	
T 57285	17	361'	Dec/66	
	72-4	337.5'	Nov/72	(4) (12)
T 57272	69-1	101'	Nov/69	(5)

21/6397'

... CONTINUED ON 2

Notes:

(1) Arnold Hardie
(2) Ventures Ltd.
(3) Iron City Mines Ltd.
(4) Drill hole 72-4 is collared on present claim # L 346580

Diamond Drilling

Township OF PARKMAN **Report Nº:** 10

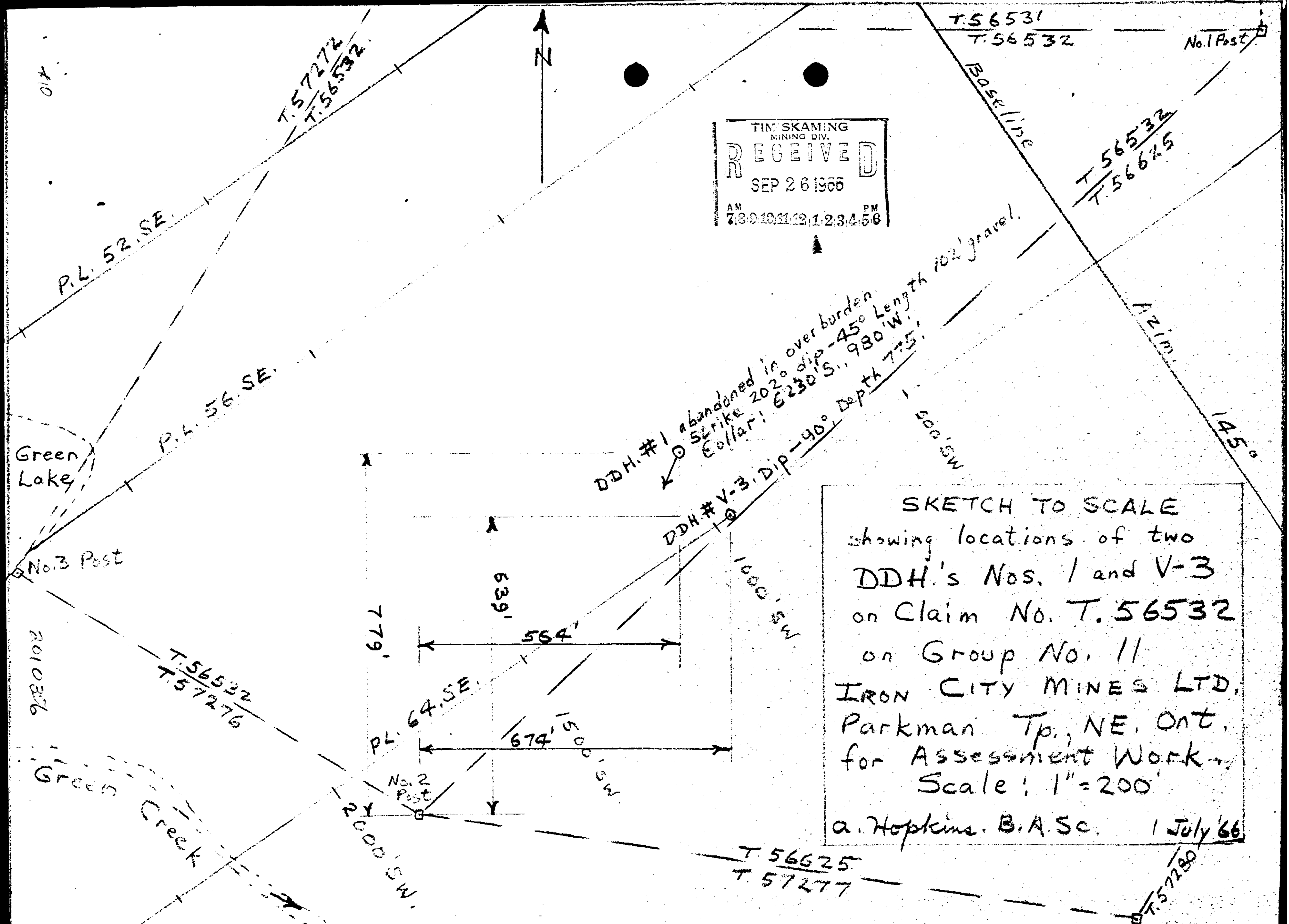
Work performed by: IRON CITY MINES LTD.

Claim Nº	Hole Nº	Footage	Date	Note
T 57414	70-1	284'	Nov/70	(6) & (7)
	71-1	214.5'	Oct/71	(7)
	71-2	403'	Oct/71	(8)
	71-3	305'	Oct/71	(9)
	71-4	175'	Nov/71	(9)
	71-5	122.5'	Nov/71	(9)
T 57019	72-1	400'	Oct/72	(11)
	72-2	334.5'	Oct/72	(10) (13)
	72-3	400'	Nov/72	(13)
L 296457	72-5	295.3'	Apr/73	(14)
	72-6	309.2'	Apr/73	(14)
T 57425	73-1	109'	Oct/73	(15)
	73-2	105.5'	Oct/73	(15)
	73-3	102'	Oct/73	(15)
	73-4	108'	Nov/73	(15)
	73-5	104'	Nov/73	(15)
	73-6	124'	Nov/73	(15)
	73-7	123'	Nov/73	(15)
	73-8	137'	Nov/73	(15)
	73-9	150'	Nov/73	(15)
	73-10	150'	Nov/73	(15)
	73-11	169'	Nov/73	(15)
	73-12	126'	Nov/73	(15)
	23	4750.5'		

Notes:

NOTES:

(4) (cont'd) This is a restaking of T 57285
(5) 234/69
(6) 192/71
(7) 229/71
(8) 231/71
(9) 250/71
(10) 307/72
(11) 322/72
(12) 51/73
(13) 52/73
(14) 80/73
(15) 19/74



SKETCH TO SCALE
showing locations of two
DDH.'s Nos. 1 and V-3
on Claim No. T.56532
on Group No. 11
IRON CITY MINES LTD.
Parkman Tp., NE. Ont.
for Assessment Work.
Scale: 1" = 200'

a. Hopkins. B.A.Sc. 1 July '66

LOG OF IRON CITY M.L. D.D.H.#1 CLAIM NO.

T.56582

Collar Co-Ords: E.D. - 71.4'
V.D. - 71.4'
6230'S; 980'W.

STRIKE	DIP	PROPOSED LENGTH	ACTUAL LENGTH
202°	-45°S.	700'	102' casing

Started drilling (piping): November 14, 1965.

Finish drilling (abandonned hole & pulled out pipe): November 28, 1965.

0' - 102' Casing (fine sandy clay, sand, quicksand, gravel and nests of boulders).

102' End of hole (abandonned). It was decided to attempt now to intersect the strong anomaly from the other side at lowest possible point, so dril was moved to Green Creek area and pointed in opposite direction to drill back.

A. Hopkins.

A. Hopkins, B.A.Sc.

PROFESSIONAL ASSOCIATION OF ENGINEERS · YUKON · Albert Hopkins 1 Dec '65

GREEN CREEK

LOG OF IRON CITY MINES LTD. D.D.H. #V-1

COLLAR CO-ORDS: 68S, 13W. CLAIM NO: T.56532

PROPOSED LENGTH: 870' STARTED: 16 March 1966
ACTUAL LENGTH: FINISHED:

DIP: -90°
STRIKE:

0' - 137.0'	Casing. A 3" casing pipe was forced down with a 300# hammer. Black Alberta mud was on hand, but was not required.
137.0'-174.5' (37.5')	Banded Iron Formation (B.I.F.) cutting core at about 30°. Not very siliceous, but contains many bands of Biotite and Garnet Gneiss (Bi & Garn. gn.) Soluble iron (sol.Fe.) content is estimated (est.) at 22%.
174.5'-198.0' (23.5')	Barren Diorite gneiss (dior.gn.) or spher. gabbro schist (sch.)
198.0'-262.0' (64')	BIF. Contains some haematite and garnet (haem. & garn.). Est. 20% Fe.
262.0'-303.0' (41')	Bi-Hb gn., black, barren. Contains some pegn. a. & py.
303.0'-366.0' (63')	I.F., but it appears to be a replacement of lava or limestone by f/g. magnetite (magn.), green in colour. Est. 20% Fe.
366.0'-381.0' (15')	Bi-gn. - dark grey to black.
381.0'-403.0' (22')	I.F. as in 303'-366'. A low-grade f.g. lava type - est. 20% Fe.
403.0'-427.0' (24')	Bi-garn. gn.
427.0'-440.0' (13')	Chlorite lava sch. - light green.
440.0'-442.0' (2')	Felsite or lamprophyre (lamp.) dyke, altered (alt.) with some bull quartz.
442.0'-459.0' (17')	I.F. Green and black lava and Bi. type. Est. 20% Fe.
459.0'-484.0'+	I.F. Massive, black, f/g. est. 30% Fe.

HOLE V-1 SAMPLES CUT FOR ASSAY

FROM	TO	WIDTH	SAMPLE #	% SOL FE	REMARKS
137.0'	155.0'	18.0'	V-1-1-	31.4%	Est. 22% sol.Fe.
155.0'	174.5'	19.5'	V-1-2	31.7	Ditto
198.0'	212.5'	14.5'	V-1-3	29.8	Est. 22% Fe.
212.5'	237.0'	24.5'	V-1-4	30.6	Ditto
237.0'	262.0'	25.0'	V-1-5	3408	Ditto
303.0'	311.5'	8.5'	V-1-7	27.18	Ditto
311.5'	336.5'	25.0'	V-1-8	25.12	Ditto
336.5'	366.0'	29.5'	V-1-9	27 29	Ditto
381.0'	403.0'	22.0'	V-1-11 15	29.7	Ditto
442.0'	459.0'	17.0'	V-1-6	18 18	Ditto
459.0'	484.0'	25.0'	V-1-10	27.44	Est. 30% Fe.
		228.5'			
			11	23.8	
			12	20.7	
			13	10.2	
			14	25.40%	

1140

201 0857

484.0'-672.0'	150.0' Dior. Gn. f.g., high in Bi. & Mu. Dark grey-green to black. Some red hema stain at 540.0'.
672.0'-703.0'	31.0' B.I.F. Est. 25% sol. Fe.
703.0'-722.0'	19.0' Andes. sch., rich in Bi.
722.0'-752.5'	30.5' B.I.F. Est. 20% Fe.
752.5'-779.5'	27.0' Mu-Bi-Sch.
779.5'-807.0'	27.5' Gran. Gn. pink.
807.0'-817.0'	10.0' 10.0' Gran. Gn. & Mu. Sch. lite-par-lit.
817.0'-821.0'	4.0' Ground up Hb-Bi Sch.
821.0'-996.0'	49.0' Gran. Gn. salmon-pink.
996.0'	END OF HOLE. Acid dip test here reads: -89°.

ADDITIONAL SAMPLES CUT FOR ASSAY

NUMBER	From	To	Width	% Sol. Fe.	Remarks
V-1-11	672.5'	687.5'	15.5'	29.7	Est. 25%
V-1-12	687.5'	703.0'	15.5'	23.8	Est. 20%
V-1-13	722.0'	740.0'	18.0'	20.7	Est. 20%
V-1-14	740.0'	752.5'	12.5'	10.2'	Est. 15%
			61.5'		
		Previous total:	228.5'		
		Total B.I.F. CUT in this hole:	290.0'		

RECAP OF THIS HOLE V-1:

From	To	Width	% Sol. Fe.	Width x%
137.0'	174.5'	37.5'	31.55	1180
174.5'	198.0'	23.5'	-	-
198.0'	262.0'	64.0'	30.00	1920
262.0'	303.0'	41.0'	-	-
303.0'	366.0'	63.0'		
366.0'	381.0'	15.0'	-	-
381.0'	403.0'	22.0'		
403.0'	442.0'	39.0'	-	-
442.0'	484.0'	42.0'		
484.0'	672.0'	188.0'	-	-
672.0'	703.0'	31.0'	26.75	806
703.0'	722.0'	19.0'	-	-
722.0'	752.5'	30.5'	15.45	472
752.5'	870.0'	117.5'	-	-

J

LOG OF IRON CITY M. L.'s DRILL HOLE # V-3

Collar Co-Ords:- 6400'S, 950'W
Strike - ---
H.D. - ---
Claim No. - T 56532

Dip 90°
Planned Length - 1500'
Actual V.D. - 775'
Started - 27 May '66
Finished - 30 June 66 to date

0' - 167'	"B" Casing.
167' - 182'	Gneiss, Bi-Q-green fels.; light grey colour, cutting core at 45°.
182' - 199'	Gneiss, amphib, dark grey, f.g.
199' - 205'	Schist, some Bi, v.f.g., light green-grey.
205' - 230'	Gn., amphib., as above, at 45°.
230' - 245'	Sch., light grey-green, as above.
245' - 247'	Breccia - fels. - pegma and gn.
247' - 259'	Sch. as above.
259' - 260'	Sch. or gn., mu, grey.
260' - 283.5'	Sch., Mu-Bi, light grey at 50°.
269' - 270'	B.Q.
272' - 273'	Sch., Mu., very light colour.
282.5' - 283'	ditto
283.5' - 320'	Gn., dior., v.f.g., Hb. and Bi., very dark-grey.
320' - 326'	Sch., Mu., almost white, at 45°.
326' - 382'	Gn., dior., as above, almost black, with some v.f.g., white fels. at 45°.
382' - 385'	Sch., Mu., as above, f.g., light grey.
385' - 412'	Gn., Dior, as above.
412' - 437'	Sch., Mu., as above, f.g., light grey.
437' - 443'	Gn., Mu-Bi., c.g., darker grey at 45°.

V3

443' - 449.8'	Gn. - fels., white, v.f.g.
449.8' - 459'	Gn. - dior., as above, almost black.
459' - 482'	Gn., fels., as above.
474' - 475'	Sch., Bi., brownish.
482' - 537'	Gn., dior., as above, except it contains garnets, pink and imperfect, up to 1/4" diameter at 60°.
537' - 591'	Gn., v.f.g., acid sil., light grey, probably once a felsite or phy. dyke, occas. it is a dark grey colour; at 60°.
591' - 602'	Gn., dior., v.f.g., to med-grained; light grey-green.
602' - 625'	Gn., acid, as above, with remnants of phenos.
625' - 636'	Gn., Bi., med.-grey, at 60°.
636' - 681'	Gn., acid, as above, at 60°.
681' - 693'	Gn., dior., as above, dark-grey, at 50°.
693' - 712'	Gn., phy., as above.
712.0' - 717.5'	Qtzite or Sandstone, pale grey-green to white, at 50°.
717.5' - 718.0'	Sch., Mu., as above.
718.0' - 750.5'	Sch., Mu., mixed with Bi. Gn. and Qtzite., pale grey-green.
750.5' - 760.0'	Gn., Hb-Bi., dark green, at 60°.
760' - 775'	Sch., Mu. mixed with Bi. Gn.
775'	End of hole. The rods and bit stuck in the hole here, and the hole has been temporarily stopped.

NOTE: It is believed that this AXT hole has almost reached the B.I.F., and will have to be continued on this Green Lake zone. Temporarily the drill has been moved to the Cook zone, but at a later date, it is intended to return here, where the "B" and "A" casings have been left in the overburden, and to wedge the hole above the last 300 feet of drill rods, so as to by-pass them and continue down through the B.I.F. Otherwise, the entire cost of this hole to date would be wasted. The core is stored by the collar of the hole. The core was logged by

A. Hopkins, B.A.Sc.

A. Hopkins.

201 0111

LOG OF IRON CITY - N.L. D.D.H. #4

COLLAR CO-ORDS:	6550'S, 1025'W.	PROPOSED LENGTH:	700'.
CLAIM NO:	T.56582.	ACTUAL LENGTH:	102.0'.
STRIKE:	195°.	STARTED:	5 February 1966.
DIP:	-80°S.	FINISHED:	8 February 1966.
H.D.:	17.2'.	V.D.:	100.6'.

0' - 102' Casing - no core. Sand, gravel, quicksand, boulders.

102' Hole abandonned - casing lost. Another try will be made on Hole No. 4A at -75°.

A. Hopkins.
A. Hopkins, B.A.Sc.

Albert Hopkins
15 Feb. '66
FELLOW

RECEIVED
JUN 6 - 1966
TEM/ SK/ MING
MINING DIVISION

2.01 0417.

LOG OF IRON CITY M.L. D.D.H. #4A

COLLAR-CO-ORDS:	6560'S.	PROPOSED LENGTH:	700'.
	1025'W.	ACTUAL LENGTH:	108'.
CLAIM NO:	T-56532	STARTED:	9 February 1966.
STRIKE:	195°.	FINISHED:	13 February 1966.
DIP:	-75°S.	H.D.:	27.2'.
		V.D.:	104.6'.

0' - 108' Casing - no core. Sand, gravel, quicksand, and boulders.

108' Hole abandonned. Casing lost.

Due to these expensive failures, it was decided to abandon the attempt, at least for now, to drill the Green Creek anomaly by usual methods. Instead, we are sending our drill about 3 miles to the N.W. to test the outcropping, of Bishop Zone, north of Little Otter Lake. We'll probably come back to Green Creek at a later date, with better equitment or men.

A. Hopkins.

A. Hopkins, B.A.Sc.

EXPLORATION SERVICE
Albert Hopkins
20 Feb. '66.
EDITION

LOG OF IRON CITY MINES LTD. D.D.H.#V.2

COLLAR CO-ORDS	DIP	CLAIM NO.	STARTED	FINISHED	TEMP.
6705'S 1080'W	-90°	T.56625	6 Apr.'66		28°F. dawn

0' - 163'	Casing - o.b.
162.0'-184.6'	22.6' B.I.F. - quite magn. est. 35% Fe. (sol.) i.e. 50% magn., 25% Q, 25% ferromag. silicates. Sample V-2-1: Crenulated irreg. massive slopes of black ma magn. f.g.
184.6'-323.0'	138.4': Garn.-Chlor - Bi Gn. (formerly a c.g. andes. or f.g. dior.) cut by occas. Q. & pegma. strs. Dark-grey green; cuts core at about 55°.
323.0'-357.0'	34.0'. B.I.F. as above, but with more ferromag. sil. mins.
	323.0'-340.0': 17.0' Sample V-2-2-. Est. 25% Fe. 340.0'-357.0': 17.0' V-2-3- Est. 30% Fe.
357.0'	14.0'. Gn. as above, only contains more garnets.
371.0'-376.5'	515'. B.I.F. Sample #V-2-4- Est. 30% Fe.
876.5'-430.5'	54.0' Dior. Gn., f.g., dark grey-green.
430.5'-443.1'	12.6' Garnet Gn.
443.1'-488.5'	45.4' B.I.F.
	443.1'-466.0': 22.9' Sampel #V-2-5 - 1% red hema,& much 466.0'-488.5': 22.5' Sampel #V-2-6 - massive f.g. black magn. Est. 35% Fe.
488.5'-500.0'	11.5': Black fig. basic intrusive trap dyke.
500.0'-511.0'	11-0': Garnet Gn.
511.0'-530.0'	19.0': Dior. gn., f.g., dark grey.
530.0'-670.0'	140.0': Gn., mainly Q.-epid., Hb.-Bi.-Chlor. Light grey-green to white. 25% Q., with some interbanded narrow sections of dior. gn.
at 580.5'	A 1" section of Bi-Mu sch. containing po. Dimethyl shows no nickel.
670.0'	Dior. Gn., f.g., dark grey, cut by some narrow pink pegma. strs., except for :-
	682.5'-683.5': 1.0' Pink pegma. strs. & blobs.

LOG OF IRON CITY MINES LTD. D.D.H.#V.2

COLLAR CO-ORDS	DIP	CLAIM NO.	STARTED	FINISHED	TEMP.
6705'S 1080'W	-90°	T.56625	6 Apr.'66		28°F. [illegible] down

0' - 163' Casing - o.b.

162.0'-184.6' 22.6' B.I.F. - Suite magn. est. 35% Fe. (sol.) i.e. 50% magn., 25% Q, 25% ferromag. silicates.
Sample V-2-1: Crenulated irreg. massive slopes of black ma magn. f.g.

184.6'-323.0' 138.4': Garn.-Chlor - Bi Gn. (formerly a c.g. andes. or f.g. dior.) cut by occas. Q. & pegma. strs. Dark-grey green; cuts core at about 55°.

323.0'-357.0' 34.0'. B.I.F. as above, but with more ferromag. sil. mins.

323.0'-340.0': 17.0' Sample V-2-2-. Est. 25% Fe.
340.0'-357.0': 17.0' V-2-3- Est. 30% Fe.

357.0'-371.0' 14.0'. Gn. as above, only contains more garnets.

371.0'-376.5' 515'. B.I.F. Sample #V-2-4- Est. 30% Fe.

376.5'-430.5' 54.0' Dior. Gn., f.g., dark grey-green.

430.5'-443.1' 12.6' Garnet Gn.

443.1'-488.5' 45.4' B.I.F.

443.1'-466.0': 22.9' Sampel #V-2-5 - 1% red hema,& much
466.0'-488.5': 22.5' Sampel #V-2-6 - massive f.g. black magn. Est. 35% Fe.

488.5'-500.0' 11.5': Black fig. basic intrusive trap dyke.

500.0'-511.0' 11-0': Garnet Gn.

511.0'-530.0' 19.0': Dior. gn., f.g., dark grey.

530.0'-670.0' 140.0': Gn., mainly Q.-epid., Hb.-Bi.-Chlor. Light grey-green to white. 25% Q., with some interbanded narrow sections of dior. gn.

at 580.5' A 1" section of Bi-Mu sch. containing po. Dimethyl shows no nickel.

670.0'-[illegible] Dior. Gn., f.g., dark grey, cut by some narrow pink pegma. strs., except for :-

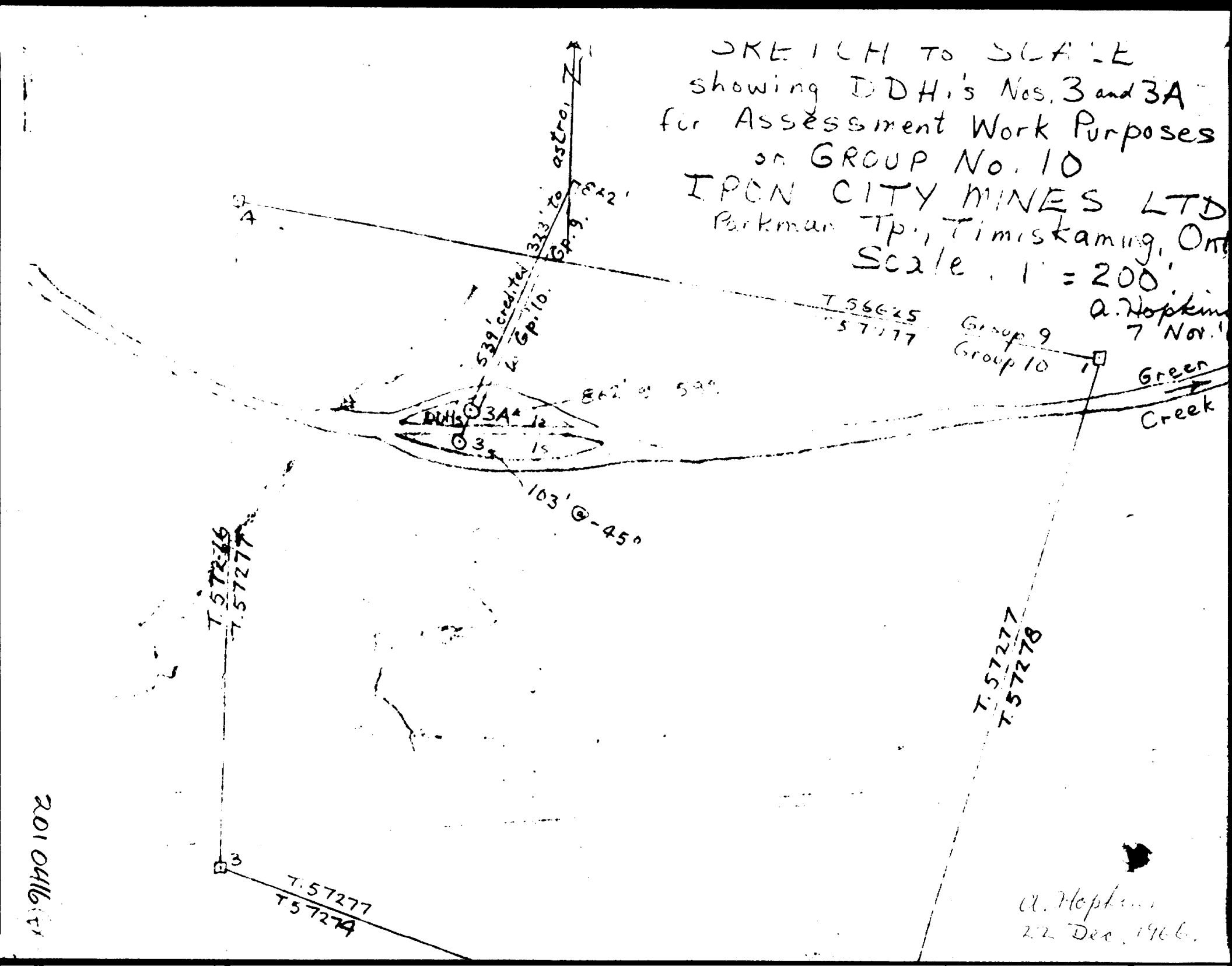
682.5'-683.5': 1.0' Pink pegma. strs. & blobs.

#10 V2

692' - 693'	1.0' Pink pegma. strs. & blebs.
700.5' - 733.5'	"meerschaum" schist as above (2m. on legend) with much calcite cutting core at about 60° angle.
733.5' - 750.5'	Dior. gn., f.g., dark grey-green, foliated, with the occas. garnet crystal.
750.5' - 766.5'	"meerschaum", soft, with much calcite.
766.5' - 777.0'	Dior. gn. as above, with occas. garn.
770.0' - 834.0'	= 57.0' B.I.F., magnetic. est. 32.5% Fe. Mn. Actual Assay % Fe
Sample #V-2-7	777.0'-797.0' = 20' Est. 35% Fe.
Sample #V-2-8	797.0'-817.0' = 20' Est. 30% Fe.
Sample #V-2-9	817.0'-834.0' = 17'
	Total 57'
834' - 858'	Dior. gn., high in Bi, and some Mu.
858'-924'	Gran. gn., salmon pink, with much orthoclase (Or), Q, some Mu, and less epid.
887' - 890'	B.Q.V., gneissic.
924' - 995'	Bi-Hb. gn., interjected by gran. in places. Gneissosity about 80° angle to core.
995' - 1051'	Gran. gn. as above.
1051'	End of hole. Acid test here shows a drill hole dip of °.

NOTE: Whole core samples were taken of the iron formation. All assay rejects are being saved for future checking and concentration tests. The core is AXT, and is stored near the collar of the hole. The core was logged by

Albert Hopkins.
Albert Hopkins, B.A.Sc.
Consulting Geologist.


SKETCH TO SCALE
showing DDH.'s Nos. 3 and 3A
for Assessment Work Purposes
on GROUP No. 10
IPCN CITY MINES LTD
Parkman Tp., Timiskaming, Ont.
Scale. 1" = 200'
A. Hopkins
7 Nov.
N
astro.
323' to Gp. 9
842' @ 59°
539' credited Gp. 10
T 56625
S 7177
Group 9
Group 10
Green
Creek
DDH 3A
3
103' @ -45°
T. 57277
T. 57276
T. 57277
T. 57278
T. 57277
T. 57277
3
A. Hopkins
22 Dec. 1966.
201 04116

Green Lake Zone

LOG OF IRON CITY Hole #3 D.D.H. #2

R.D. 72.1° V.D. 72.1°

Collar Co-Ords:	Strike	Dip	Proposed Length	Actual Length	Started	Finished
N2 7120'S	32°	-45°N.	~~1350'~~	~~183'~~	11 Jan:66	15 Jan:66
1775'W			Claim No: T.57276			

0' - 183' Casing - no core - overburden (sand, quicksand, gravel, boulders).

183' **End of hole.** Hole abandoned reluctantly, as casing shoes worn out and pipe and casing stuck and never recovered. The drill was now moved 75' ahead, to try at a steeper angle on Hole 3-A.

ASSOCIATION OF ONTARIO LAND SURVEYORS
A. Hopkins
Albert Hopkins
20 Jan '66.

A. Hopkins.
7 Nov. 1966.

file Green Lake Zone.

(X2) 22 (X2, R.

LOG OF IRON CITY M.L. D.D.H. #2

Collar Co-Ords:	Claim No.	Strike	Dip	Proposed Length	Actual Length
64'S. 2105'W.	T.57270 and 56532.	55°	-45°N.	1500'	962'

Hole Started: 30 November 1965 H.D. 573.4'
Hole Finished: 8 January 1966 V.D. 573.4'

0' - 102.0' Casing (sandy clay, sand, gravel, quicksand, boulders).

102.0' - 152.0' Garnetiferous gabbro gneiss. Dark, basic, slightly magn. mod. coarse gr. Iron-rich, with foliation at 75° to the core. It also contains much Hb. and some Py and Bi and plag. It is cut by grey f.g. narrow altered felsite strs. Specimen sample of the whole core from 135' to 140' gave: (Sample No. 2-1) Iron (soluble in 1:1 HCl) 0.1%; Phosphorus Pentoxide 0.01%; Sulphur 0.21%; Chromium 0.01%-0.10%; Copper 0.01%-0.10%; Lead about 0.1% Manganese 0.5%-5.0%; Nickel, less than 0.01%; Titanium, less than 0.10%.

152.0'-170.0' Bi-Hb gn.-some garnet, f.g., non-magn.

170.0'-173.0' Garnet of gabbro-gn, as above, with more py. & Q. C.G.

173.0'-235.4' Basic greenstone schist, probably basalt, f.g., dark grey-green.

235.4'-236.6' Garnetif. gn.

236.6'-242.0' Basalt, coarser-grained than above.

242.0'-262.7' Alternating bands (up to 1' wide) of dense f.g., black magn. rock and c.g. grey-green basalt. More magn. & homogen. than Sample #2-1. It contains mostly Hb and Mag. Sample #2-2 from 255'-260' gave 17.80% sol. iron.

261.4'-262.0' Black magn. sand or sludge.

262.7'-270.0' Basalt Sch. f.g.

270.0'-285.0' Lamp dyke, f.g., alt.

285.0'-287.0' Breccia.

287.0'-322.5' Garnetif-syen - or dior-gn. Dk. rose and black, becoming coarser-gr. in centre.

322.5'-430.0' Dense dark basic basalt-gn., m.g., non-magn., becoming finer-grained with depth.

430.0'-572.0' Diorite - v.f.g., probably Keewatin, dark grey, salt & pepper, non-magn.

572.0'-576.0' Syen. - fresh injection into the dior. Contains some pink ortho-phenos. up to ½"°. Coarsest at 573.5'.

201 0364 (Dupl)

X2

570.0'-642.0'	Gn. or Dior(?) v.f.g., dense black igneous rock, composed mostly of Hb.Bi, & Aug., non-magn. Could be called a Hb-Bi-Gn. If it were not for the absence of plag., it could be called a.v.f. g. dior. Cut by the odd narrow pegma. or micropeg. or felsite dyke, e.g. at 605.0'. It is more gneissic between 620' and 6420oot.
642'-692'	Biotite-graph. sch. or gn. Contains a soft black but sparkling sub-metallic grey-silver mineral that is not moly. (probably graph.) Non-magn. Sample #2-3 from 642.0'-642.4' gave: Mn: 0.05%-0.50%; Cr. 0.01%-0.10%; Ti. 0.5%-5.0%; V. 0.01%-0.10% Zr. 0.01%-0.10%.
692.0'-697.2'	Soft unconsol. fault gouge, black, f.g., graph.
697.2'-700.0'	Bi-graph. consol. gn.
700.0'-800.0'	Magn. B.I.F. Starts off low grade and very typ. banded, becoming denser, more massive, and more magn. with depth, contains some small garnets.
	Mn Ti.
700.0'-725.0'	#2-4. 19.7% sol. iron
725.0'-750.0'	#2-5. [illegible]% sol. iron 0.5-5.0%; Pulps & rejects saved 0.01%-0.10%
750.0'-775.0'	#2-6. 30.7 % " " " 0.01%-0.1%
775.0'-800.0'	#2-7. 30.4% " " " 0.01%-0.1%
	Average 28.8% Fe /100' [illegible] TiO_2,
800.0'-811.0'	Mag. B.I.F. as above, cutting core obliquely.
811.0'-820.5'	Gn. as above.
820.5'-825.5'	Magn. B.I.F. cutting core obliquely.
825.5'-862.0'	Dior., f.g. as above.
862.0'	End of hole. Dip tests were requested at 500' and at bottom of this hole, but were apparently overlooked.

It was decided th t the hole was undercutting the magn.anom. which must dip N. about 60°, and that a flat hole drilled from Green Creek further east about 800' thru the centre of the anomaly would have better results, so this hole was abandonned here, and the drill moved downstream to set up #3.

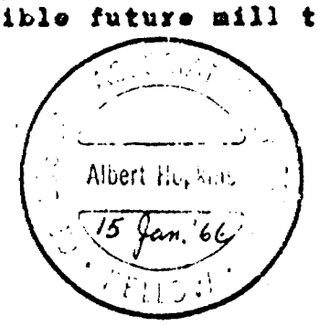
Core stored at Opimika Camp, except for that sampled, whose rejects and pulps have been saved in storage by Ont. Dept. of Mines, for possible future mill tests or checking.

Core logged by: Albert Hopkins, B.A.Sc.

Albert Hopkins.

Albert Hopkins

9 Nov. 1966



LOG OF IRON CITY'S DDH. #7

Collar	Co-Ords:-	Strike	Dip	Slope Length	Claim No.	Startedf	Finished
4575'S.,	90'E	205°	-45°	836'	T.56531	20.5.66	10.6.66.

B.D. and V.D. = 585'

0' - 5' Casing.
5' - 208.5' Granite Gneiss (Gran. Gn.), grey to salmon pink, fg. containing much Mu. Gneissosity is from 70° to 80° to the core direction except for:-
169.5' - 174.2' Haematite & rust, red & massive, cavy, blocky, & non-mag.
189.0' - 189.5' " " " " "
204.0' - 204.1' "
208.5' - 208.6' "
208.6' -217.0' Slate or hornfels, black, vfg.
217.0' - 261.5' - 44.5' of B.I.F. magn., grey, starting off low grade, perhaps 15% Fe increasing to an est. 30% with depth. It contains the occas. hema. seam, cutting the core at an angle of 60°.

Sample	from	to	width	Est. Fe %	Actual Assays. Fe	Mn	Combined
#7-1	217'	235'	18'	15%	14.1	1.22	15.32
#7-2	235'	253'	18'	17.5%	16.4	5.08	21.48
#7-3	253.0'	261.5'	8.5	20%	16.9	7.80	24.7

261.5' - 274.0' Bi-Hb. Gn., dark grey, foliated
274' - 288' B.I.F. as above, est. 22.5% sol. Fe. (Magn.)
Sample #7-4 from 274' to 288' - 14', assayed 19.1% Fe + 4.4% Mn = combined 23.5%
288' - 308' Bi. Gn.
308.0' - 316.5' Qtzite, impure, light grey.
316.5' - 325.0' Bi. Gn.
325' - 366' = 41' B.I.F. magn., as above, estim. 25% sol. Fe.

Sample	from	to	width	Actual Assays Fe	Mn	Combined
#7-5	325.0'	345.5'	20.5'	29.8	3.72	33.52%
#7-6	345.5'	366.0'	20.5'	23.7	2.44	26.14%

366' - 387' Bi. Gn. with some sl. magn'iism. Carbonaceous, f.g., dark grey material
287' - 397' Qtzite as above.
397' - 405' fg. Bi. Gn. & Greywacke (GW) interbedded, dark grey,
405.0' -445.5' Qtzite, very impure, cuts core at 75° angle.
445.5' - 460.0' fg. interbedded Bi. Gn. & Gw., dark grey.
460' - 463' Qtzite as above.
463.0' - 476.5' Gw.
476.5 - 493.0' Qtzite as above.
493' - 510' Alt. bands of Gw. & Qtzite.
510' - 532' Qtzite, almost white & pure.
532' - 535' Gw.
535.0' -543.5' Qtzite, pure.
543.5' - 550.0' Bi. Gn., fg., dark-grey.
at 550.0' 1" red hema.
550' - 552' Talc schist, a green-white carb.
552.0' - 556.5' fg. Bi. Gn.
556.5' - 558.0' Qtzite
558' - 578' fg. Bi. Gn.

201 0369 (Dupl)

LOG OF IRON CITY'S DDH. #7 - Cont'd -2-

578' - 590'	Qtzite, white, pure.
590' - 603'	Qtzite, grey, impure.
603' - 660'	Arkose & impure Qtzite, sl. rosy, interbedded.
660' - 664'	Anorthosite Gn.
664' - 686'	Qtzite, grey, very impure.
686.0' - 687.5'	Qtzite, pure.
687.5' -719.0'	Qtzite, v. impure, grey, interbedded with Gw.
719' - 721'	Sch. (chlor - hb. - calc. - Bi.)
721' - 730'	Bi. Gn., dark, foliated, fg., cutting core @ 75°
730' - 786'	Andes. Sch. cut by many pink calc. strs., with much Bi. & lesser Hb. light grey, cuts core @ 75°
786' - 826'	Dior. Gn. as above, dark grey, vfg., cutting core @ 75°
826' - 832'	Breccia of Bi. Gn., Q., & pink pegma.
832' - 836'	Hb. Gn. & some Bi. Q., & pegma., vfg., light grey & pink
836'	End of hole, cuts rock foliation @ 85°

NOTE:-

This hole was designed to intersect the NE flank of the Green Lake folded B.I.F. being collared on the only outcrop in the vicinity. Although the grade was fair (averaging about 23% combined Fe & Mn., the total I.F. width was disappointing low @ about 100' out of 150' total under the 35^{K} gamma mag. readings. Whole A core assayed. Bal. stored at collar. Core logged & sampled by

A. Hopkins.

A. Hopkins
9 Nov. 1966

201 0310 (Dupl)

LOG OF IRON CITY MINES LTD. DDH. #11

Collar Co-Ords:-	275'N., 125'E.	Claim No.	- T. 57411
Slope Length	- 860'	HD and VD	- 602'
Dip	- -45°	Started	- 31 August 1966
Strike	- 92°	Finished	- 10 September 1966

0' - 5' Casing

5' - 30' = Bi.Gn., dark grey @ 90° angle to the core.

30' - 38' = 8'. Contact zone. Sil. black Gn. Consid. dissem cp., po, py. Sample No. 11-7. over 8'. Est. 10% Fe. Weakly magn. Assays 7.56% Fe.

38' - 55' = 17'. B.I.F., sil, banded, light grey, weakly magn. Sample No. 11-6. over 17'. Est. 15% Fe. Assays 14.20% Fe except for:-

55' - 56' = 1'. Granite Gn. with mottled pink, porphyroblasts.

56' - 80' = 24'. B.I.F., weakly magn. Est. 20% Fe. Sample No. 11-25. Actual Assay across 2.4' is % Fe.

80' - 105' = 25'. B.I.F. grey, crystalline, with some dissem. po. & cp. Est. 10% Fe. Sample No. 11-1. Actual Assay across 25' is 8.25% Fe.

101' - 103.5' = 2.5'. Sample No. 11-27. for copper. Assays Tr. Cu.

105' - 130' = 25'. B.I.F., as above, except for:-
Sample No. 11-8. Est. 15% Fe. Actual Assay is 15.70% Fe across 25'.
111' - 113' = 2'. Bi. Gn.

130.0' - 147.5' = 17.5'. B.I.F., with some po. Est. 20% Fe. Sample No. 11-9 across 17.5'. Actual Assay is 18.01% Fe.

147.5' - 152.5' = 5'. Bi. Garn. Gn.

152.5' - 166' = 13.5'. B.I.F. Est. 25% Fe. Actual Assay % Fe.
Sample No. 11-26 assays % Fe. across 13.5'.

166' - 179.5' = 13.5'. Bi. Gn., grey, cutting core @ 90°.

179.5' - 204.0' = 24.5'. B.I.F. est. 20% Fe. Sample No. 11-10 across 24.5' assays 19.30% Fe.

204' - 228' = 24'. B.I.F. as above, est. 10% Fe. Sample No. 11-11. Assays 9.06%

228' - 253' = 25'. B.I.F. as above with some dissem. po. Est. 20% Fe. Sample No. 11-2. Assays 18.50% Fe.

253' - 260' = 7'. B.I.F. as above. Est. 22.5% Fe. Sample No. 11-12. assays 21.01%.

260' - 278' = 18'. Bi. Gn. with some fg. garn., dark-grey, fg.

278' - 303' = 25'. vfg. Bi. Hb. Gn., lite and dark-grey.

303' - 327.5' = 24.5'. B.I.F. as above, with dissem. po. except for:-
303' - 306' fg. gneissic dior-dyke.
311.0' - 313.5' ditto
323' - 324' ditto
325.5' - 326.0' ditto
This is all part of Sample No. 11-3. Est. 15% sol. Fe. Actual assay 11.80%.

327.5' - 351.5' = 24.0'. B.I.F. as above. Est. 12.5% Fe. Actual assay 10.08%. Sample No. 11-13. except for 328' - 332' which is vfg. Bi. Gn.

351.5' - 380.0' = 28.5'. B.I.F., lite grey, moderately magnetic. Sample No. 11-14. Est. 15% sol. Fe. Actual assay 12.44%.

cont'd

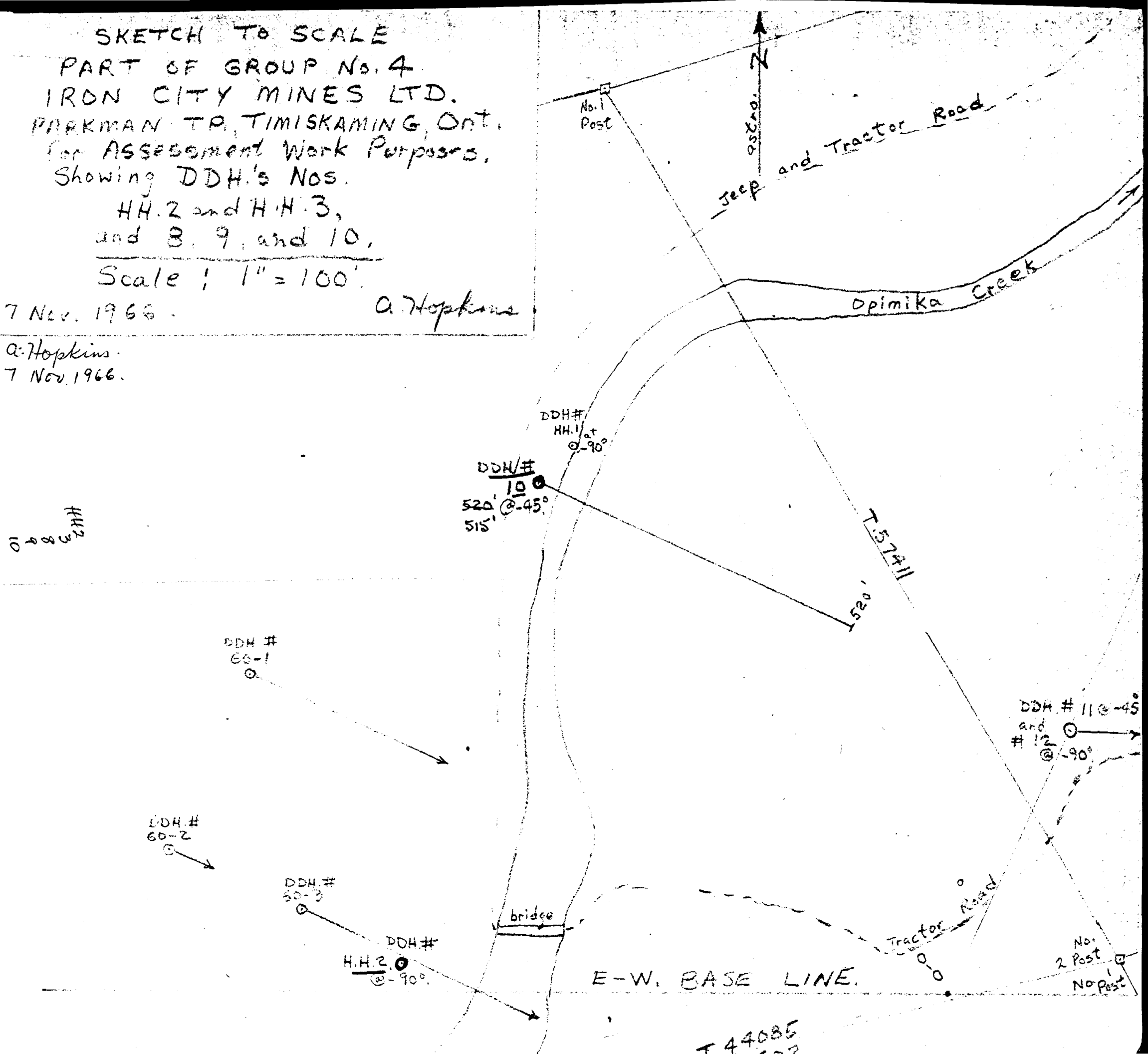
#11

SKETCH TO SCALE
PART OF GROUP No. 4
IRON CITY MINES LTD.
PARKMAN TP, TIMISKAMING, Ont.
for ASSESSMENT Work Purposes,
Showing DDH.'s Nos.
HH.2 and H.H.3,
and 8, 9, and 10,

Scale ; 1" = 100'

7 Nov. 1966. A. Hopkins

A. Hopkins.
7 Nov. 1966.



DDH # 60-2

DDH # 60-3

DDH # H.H 2. @ -90°

bridge

Tractor Road

No. 2 Post

No. 1 Post

E-W. BASE LINE.

T 44085
T 47602

DDH # HH 3. @ -90°

DDH # 9 750' @ -45° and # 9 @ -90°

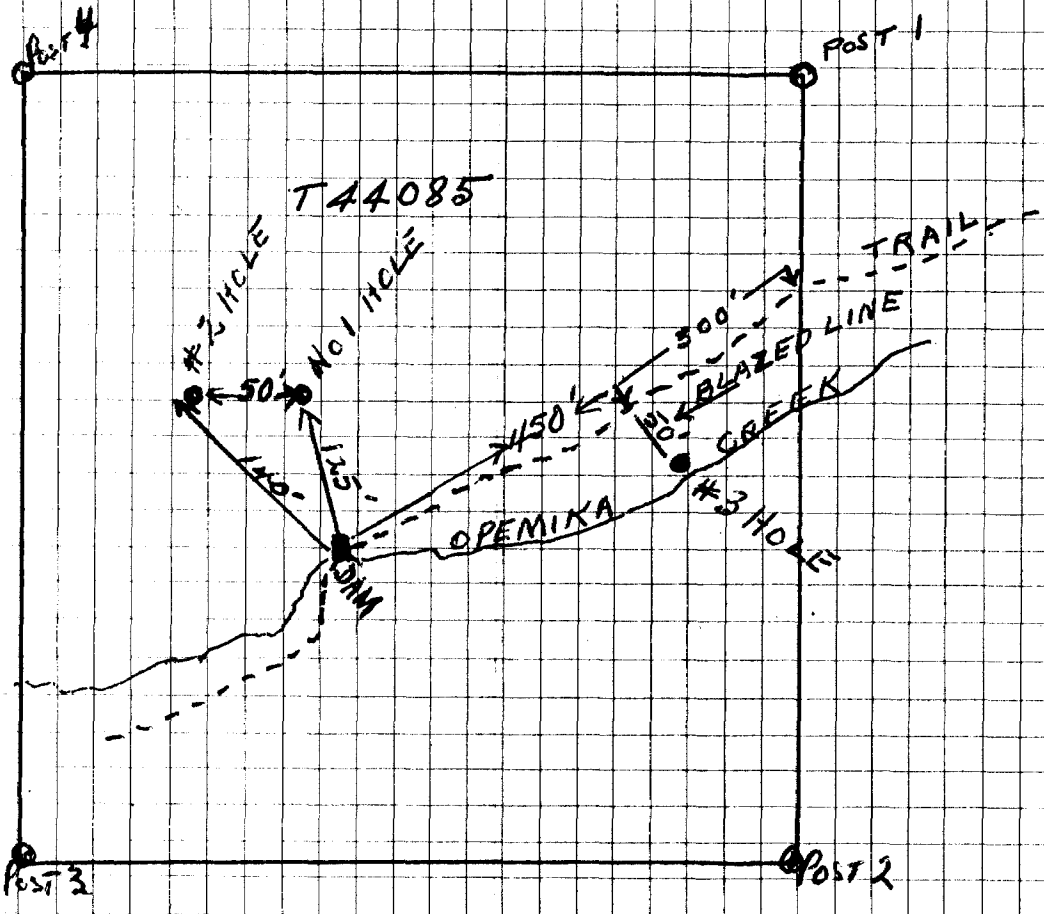
-750'

NE-SW. B/L Azim. 205°

400 0115

FORM 119

Location Diamond Drill Holes



SCALE
APPROXIMATELY
1" = 325'

Location Sketch of
Diamond Drill Hole # HH-1
on Claim Group No. 4
on T. 44085
for Assessment Work Purposes
Parkman Tp., IRON CITY MI. L.
Scale: 1" = 100'
10 June 1966 Albert Hopkins

N

35' No. 1 Post

T. 57425

BUSH ROAD

380'

T. 57411
T. 44085

102' vertical
Collar Coords:-
561' N.
393' W.
From No. 1 Post
380' S, 35' W.

DDH HH-1

PL. 8 W.

PL. 6 W.

PL. 4 W.

PL. 2 W.

PL. 0 NE.

DDH. # 60-1 @ -45°

DDH. # 60-2 @ -45°

DDH. # 60-3 @ -45°

DDH. # HH-2 vert.

E-W BL.

T. 44085
T. 47602

PL. 2 SW.

CREEK

OPIMIKA

PL. 4 SW.

Trail

SW-NE BL. Azim. 205°

13½" x 13" · 1" = 100'

iketch of
:ll Hole # HH-1
Group No. 4-
4085
nt.) Work Purposes
IRON CITY M.L.
1" = 100'
Albert Hopkins,

No.1 Post
T. 57425
380'
N to McLarens Bay
BUSH - ROAD
T. 57411
T. 44085
PL. 0-0
PL. 2E.
PL. 4 NE.
100' vertical
Collar Coords:-
561'N.
393'W.
From No.1 Post
390'S, 35'W.
DDH HH-1
PL. 6 W.
PL. 4 W.
PL. 2 W.
DDH # 60-1 @ -45°
DDH # 60-2 @ -45°
DDH # 60-3 @ -45°
DDH # HH-2 vert.
PL. 0 NE.
No. 2 Post
T. 57414
T. 44085
T. 47602
PL. 2 SW.
CREEK
OPIMIKA
PL. 4 SW.
Trail
SW-NE BL. Azim. 205°
Rough Draft of part of
400 0115
HH1

Property Hardwon Iron Prospect

DIAMOND DRILL RECORD

Hole No. 3 Sheet No. Lat. Total Depth 27'
Section Opemiska Creek Dep. 450' East of Dam Elev. Collar
Date begun May 9/59 Bearing 50° NE of Dam Elev. Bottom
Date finished May 9/59 Angle Vertical

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD $	SLUDGE GOLD. $
1-5	Banded granite gneiss				
5-7	Granite Darner-gneiss				
7-12	Banded magnetite in gneiss				
12-15	Hornblende gneiss with fine quartz stringers				
15-17	Biotite gneiss & mica schist				
17-20'	Banded magnetite fine grained in gneiss				
20-27	Quartzite with fine quartz stringers				

Property Hardee Iron Prospect
Parkman Township

DIAMOND DRILL RECORD

Hole No. 2 Sheet No. 1 Lat. Total Depth 34½ feet
Section Opemika Creek Dam Dep. 150' N. of Dam Elev. Collar
Date begun May 7/59 Bearing 275° NW of Dam Elev. Bottom
Date finished May 9/59 Angle 90°

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD $	SLUDGE GOLD. $
1 - 5	Fine to medium grained banded magnetite in gneiss at depth of 5' 3" of massive pyrrhotite intersected		34½		trace
5 - 10	Fine to medium grained magnetite in gneisses				
10 - 15	Fine grained banded magnetite in quartzite & gneiss				
15 - 20	Banded medium grained magnetite with minor sulphides				
20 - 25	Banded magnetite fine to medium grained pink quartz veinlets minor sulphides				
25 - 30	Banded magnetite fine grained in gneiss				
30 - 34½	Banded magnetite in quartzite fine to medium grained				

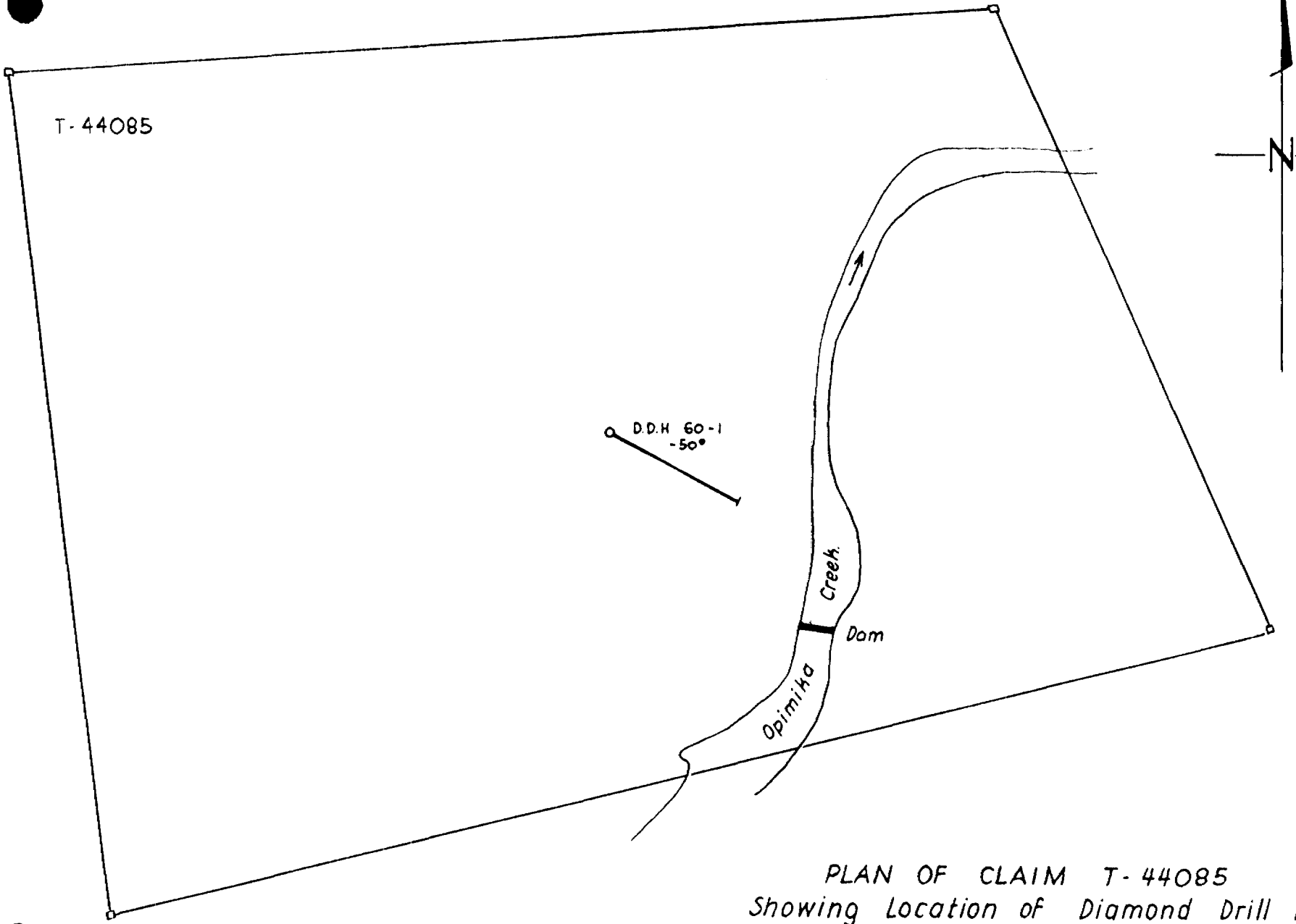
92

Property Hardie Iron Prospect 14085
Parkman Township

DIAMOND DRILL RECORD

Hole No. 1 Sheet No. 1 Lat. Total Depth 27 feet
Section Opemika Creek Dam Dep. 125' North of dam Elev. Collar
Date begun May 5/59 Bearing 285° NW of Dam Elev. Bottom
Date finished May 7/59 Angle 85°

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD $	SLUDGE GOLD. $
1-5	Banded Magnetite & Quartzite, quartz veinlets		27'		Trace
5-10	Banded magnetite fine to medium grained		27'	Fe.	44.77%
10-15	Banded magnetite in quartzite, medium grained minor pyrrhotite				
15-20	Banded magnetite in quartzite fine to medium grained Minor sulphides				
20-27	Banded magnetite fine grained some minor sulphides				



PLAN OF CLAIM T-44085
Showing Location of Diamond Drill Hole

Legend
Diamond drill hole.
Claim corner.

0 200 400 600
feet.

NOTE:- The writer had expected the iron formation to continue to approximately 653' down this hole. Instead it stopped at 470.5' or 182.5' short. This is probably due to the assumed surface F.W. contact of the I. F. being further west than pictured on drawing No. 66-5 and the dip averaging about 40° instead of 45° as previously assumed.

Again, the I. F. widths are excellent, but the grade perillously low. The total I. F. width in this hole is a continuous 460.5' or 9% of the total I. F. section, with only minor widths of waste horses.

This hole completes cross-section A-B through the North Block of the North Half of the Cook Zone. (see Vertical Cross Section drawing No. 66-18). The whole AXT. I.F. core sections were sampled for assay by the Ont. Dept. Mines, the balance (waste) of the core being left stored by the hole's collar. The core was logged and sampled by,

A. Hopkins, B.A. Sc.
Consulting Mining Engineer.

(E)

LOG OF IRON CITY MINES LTD. DDH. #13

Collar Co-Ords:- 252'N., 807'E.
Slope Length - 656'
Dip - -45°
Strike - 78°

V.D. & H.D. - 459'
Claim No. - T. 57414
Started - 25 Sept. 1966
Finished - 9 Oct. 1966

0' - 10' Casing

10' - 470.5' = 460.5'. I.F. i.o. magnetite - rich Amph.-Bi. Gn., mildly magnetic, fg.-cg., dark grey to black, cutting core @ about 75°. Contains much disseм. po & py., and tr. hema & cp., consid. silica in places. The best mineralized section was sample No. 13-7, which was assayed for gold and silver and a spectrographic analysis made. If it assayed anything economically, then all the others should be similarly tested. If not, forget the silicification and sulf. mineralization.

Sample #	From	To	Width	Est.	% Fe. Assay	Remarks
13 - 1	10'	34.5'	24.5'	10%	8.90	
13 - 2	34.5'	59.5'	25'	15	12.92	
13 - 3	59.5'	84.0'	24.5'	24.5	11.42	
13 - 4	84'	109'	25'	15	14.58	
13 - 5	109'	134'	25'	15	11.2	
13 - 6	134'	159'	25'	17.5	8.79	Contains some po.
13 - 7	159.0'	184.5'	25.5'	20	17.95	(25%?) much po., tr. cp. Gave tr. Au., tr. Ag., Tr. Cr., tr. Co., tr. Cu., Tr. Pb., Low in Mn., tr. Mo., tr. Ni., tr. Ti., Tr. Va. & tr. Yt.
13 - 8	184.5'	209.0'	24.5'	20	16.1	(25%?) much po., tr. cp.
13 - 9	209'	234'	25'	20	16.1	ditto
	216.0'	216.5'	0.5' - A Q.			Veinlet cutting core @ 75°.
13 - 10	234.0'	257.5'	23.5'	20	14.5	Much po., tr. cp.
13 - 11	257.5'	283.0'	25.5'	15	12.26	20% ? po.
13 - 12	283'	308'	25'	15	16.1	15% po.
13 - 13	308.0'	332.5'	24.5'	15	12.91	10% po.
13 - 14	332.5'	367.0'	34.5'	10		
13 - 15	367.0'	401.5'	34.5'	12.5		
13 - 16	401.5'	436.0'	34.5'	15.0		
13 - 17	436.0'	470.5'	34.5'	17.5		
TOTAL	10.0'	470.5'	460.5'			

470.5' - 656' Amphib. Gn., hi in Bi., gneissosity @ 80° to core,
= 185.5' non-magn., dark grey, fg., assumed footwall.
656' End of hole.

A 11

2.1 0378 (Dup)

545.0' - 548.5'	I.F. Amph.-Bi. Gn. Est. 10%. Too narrow to sample.
548.5' - 557.0'	Dior. Gn.
557' - 559'	More I.F. as above.
559.0' - 574.5'	Dior. Gn.
574.5' - 592.5'	18'. I.F. Amph.-Bi. Gn. Est. 10% Fe. Sample No. 12-10. Actual Assay is 8.73% sol. Fe.
592.5' - 599.0'	Dior. Gn.
599' - 601'	Bi. Gn.
601'	End of Hole.

NOTE:- As drill rods stuck here in mud, the writer gave the drillers permission to abandon the hole for fear all the rods were lost. The drill was then moved ahead (East) 620' to 45° hole #13 to complete this cross-section A-B.

As can be seen on drawing No. 66-5, this vert. hole No. 12 is located on a barren bay or infold of Hu.-Bi.-Gn., and would not be expected to cut too much I.F.

Actually it intersected 209' of I.F. averaging 10.35% sol. Fe. out of a total of 601'. This gives 34.7% I.F. or 1 part of I.F. to 2 parts of waste. If the hole could have proceeded deeper, no doubt more I. F. would have been intersected.

The AXT whole I.F. core sections were sampled and assayed by the Ont. Dept. Mines. The balance or waste sections remain stored at the hole's collar.

The core was logged and sampled by,

A. Hopkins

A. Hopkins, B.A. Sc.,
Consulting Mining Engineer.

Dupl

201 0377.

LOG OF IRON CITY MINES LTD. DDH. #12

Collar Co-Ords:- 275'N., 125'E.
Slope Length - 601'
Dip - -90°
Claim No. - T. 57411
Started - 11 Sept. 1956
Finished - 21 Sept. 1956

0' - 7'		Casing
7' - 67'		Hu.-Bi. Gn., lite grey, cutting the core at about 45°, slightly magnetic, but not enough to sample ("protore") for assay. There is a crossbedding effect, i.e. 1/4" dark grey magnetic bands are parallel to the core, despite the lite grey schist being at 45° to core. 60.5' - 64.5' is more magnetic than the rest.
67' - 85'	=	18'. Sample No. 12-1. B.I.F. mildly magnetic, Est. 12.5% Fe. dark grey. Actual assay 11.74% sol. Fe. No 12-1A. gave 13.6%
85.0' - 91.5'		Bi. Gn., grey.
91.5' - 93.5'		"Protore", sl. magnetic BIF., but not enough to sample.
93.5' - 111.0'		Dior. Phy. Gn., dark grey, m.g.
111' - 112'		fg. dior. gn.
112' - 137'	=	25'. Sample No. 12-2. B.I.F. dark grey, est. 12.5% Fe. Actual assay 10.29% sol. Fe.
137' - 162'	=	25'. Sample No. 12-3. B.I.F. est. 15%. Actual Assay 13.40%.
162.0' - 185.5'	=	23.5'. Sample No. 12-4. B.I.F. Est. 20% Fe. Actual Assay 17.7%
185.5' - 194.5'		Andes. Sch.
194.5' - 202.5'		Protore B.I.F., too lean and narrow to sample.
202.5' - 213.0'		Bi. Gn.
213.0' - 236.5'	=	8.5'. I.F. Amphib. Bi. Gn., but too narrow to sample.
236.5' - 258.0'		fg. dior. Gn., dark grey.
258.0' - 260.5'		B.I.F., but too narrow to sample.
260.5' - 267.0'		Bi. Gn.
267' - 292'	=	25'. Sample No. 12-5. B.I.F. Est. 10% Fe. Assays 6.33%.
292.0' - 316.5'	=	24.5'. Sample No. 12-6. B.I.F. Est. 17% Fe. Assays 15.00%.
316.5' - 336.5'		Bi. Gn. except for 323.5 - 324.5' which is B.I.F.
336' - 351'	=	15'. Sample No. 12-7. B.I.F. bi in Bi. Est. 10% Fe. Assays 4.98%.
351' - 373.5'		Bi. Gn.
373.5' - 377.5'		I.F.-Amph.-Bi. Gn., too narrow to sample.
377.5' - 403.5'		Hu.-Bi. Gn.
403.5' - 428.5'	=	25'. Sample No. 12-8. B.I.F. Est. 10% Fe. Assay 6.75.
428.5' - 439.0'		Andes. Sch.
439' - 464'		Bi. Gn.
464.0' - 483.5'		Andes. Sch.
483.5' - 486.0'		I.F. Amph.-Bi. Gn., too narrow to sample.
486.0' - 506.5'		Bi.-Amph.-Hu. Gn.
506.5' - 516.5'	=	10'. Sample No. 12-9. I.F. Amphib-Bi. Gn. Est. 10% Fe. Actual Assay is 7.55% sol. Fe.
516.5' - 523.0'		Dior. Gn.
523' - 524'		B.Q.V.
524.0' - 529.5'		Hu. Gn., lite grey.
529.5' - 530.5'		Bi. Gn., black.
530.5' - 531.5'		Dior. Gn.
531.5' - 537.5'		I.F. Amph.-Bi. Gn., weakly magn., too narrow to sample.
537.5' - 545.0'		Dior. Gn.

cont'd

201 0376 Dept

#11

across the North Block of the North Half of the Cook Zone. (holes 10, 11, 12 and 13). Again, the Iron Formation is disappointingly low (14.9% sol. Fe.) but its width encouraging (541'). This hole is 66% I.F. or 1 part I.F. to 0.5 parts waste. Combining the two holes on this cross-section to date, the average grade is 15% with a total width of 884.5' I.F. of a total width of 1375' rock or 64.2% I.F. The whole AXT core iron formation sections were taken for samples, the balance of the core being left by the hole's collar. Assaying was done by Ont. Dept. Mines and all rejects were saved for future concentration tests. The drill swung vert. and drilled hole 12 from same set-up.

The core was logged and sampled by

A. Hopkins, B.A.Sc.,
Consulting Mining Engineer.

[illegible]		vfg. black Bi-Hb-Garn. Gn.
[illegible]		B.I.F. grey, Est. 15% Fe. Sample No. 11-16. Assays 13.72% except for a barren horse of Bi. Gn. from 466.5' - 472.5'.
[illegible]		Bi-Garn. Gn., dark grey.
[illegible]	= 13.5'	B.I.F. as above. Est. 10% Fe. Sample No. 11-17. Assays 7.92%.
[illegible]	= 15.5'	vfg. Bi-Garn.-Gn., lite grey.
[illegible]	= 31'	B.I.F., lite-grey with consid. po & tr. cp. & born. in [illegible]. Est. 15% Fe. Sample No. 11-17. Assays 14.36%
[illegible]		are some flakes of cp. from 502' - 507' in a horse of Bi-Garn. Gn.
[illegible]	= 25'	B.I.F. as above with some diagen. po. Est. 15% Fe. Sample No. 11-4. Actual Assay is 14.95% sol. Fe.
[illegible]	= 24.5'	B.I.F. as above, with diagen. po thro'out. Sample No. 11-2. Est. 17.5%. Actual assay 16.78% sol. Fe.
[illegible]		sil. taconite or jaspillite, ve. magn., but not iron ore.
[illegible]		Bi-Garn. Gn.
[illegible]		Black graphitic Gn.
[illegible]		Chlite or taconite, not worth assaying, too narrow and weak.
[illegible]		Garn. Gn.
[illegible]		Chlite or taconite, as above.
[illegible]	= 25.5'	B.I.F. est. 15%. Sample No. 11-18. Assays 13.99%. Has some born on chlorite-oides and inclusion sev. narrow seams of Garn. Gn.
641.5' - 670.0'	= 25.5'	Bi-Garn-Mag-Gn., magnetic, grey, banded. Sample No. 11-20. Est. 17.5%. Actual assay 15.22% sol. Fe.
[illegible]		Garn. Gn., grey, fg.
		fg. dior. Gn. (Lite-Bi. Gn.)
[illegible]	= 21.5'	Amph-Bi-Mag. Gn., magnetic I.F., amphibolite. Sample No. 11-21. Est. 15% sol. Fe. Actual assay is 5.56%.
728.5' - 738.5'	= 10'	fg. dior. Gn. as above.
738.5' - 752.0'	= 10.5'	Amph-Bi-Mag. Gn., magnetic I.F. with some hem. stain @ 743'. Sample No. 11-2[illegible]. Est. 12.5%. Assays 4.73%.
[illegible]		Bi. Gn.
[illegible]	= 8'	of B.I.F. containing some garns. Est. 15% sol. Fe. Sample No. 11-22. Actual assay is _____ sol. Fe.
[illegible]	= 22'	of fg. dior. Gn.
[illegible]		Ba. Gn. (Lite and schisty).
[illegible]		Bi. Gn., black.
[illegible]		fg. dior. Gn.
[illegible]	= 13'	Amph-Bi-Mag. Gn., magnetic I.F. Est. 10% Fe. Sample No. 11-23. Actual assay is 3.11% Fe.
[illegible]		fg.-Bi. Gn.
[illegible]	= 15'	Amphib-Bi.-Mags. Gn., magnetic I.F. Est. 15% Fe. Sample No. 11-24. Actual assay is 4.83 % sol. Fe.
[illegible]		Bi. Gn.
[illegible]		End of hole.

[illegible] This hole got stuck at this pt. and was abandoned. Probably I.F. extends deeper. This hole is the second of four holes comprising cross-section A-[illegible]

(Dept) 201 0374

12-12-241

LOG OF D.D.H. # HH-1

Iron City Mines Limited - Cook Zone

Collar Co-Ordins	Dip	Strike	Depth	Claim No.	Started	Finished
393'W, 561'N	-	-90°	102'	T 44085	1 May 66	15 May 66

0' - 39.9' Limestone (LS.), silicated, dark-grey, with a salt & pepper appearance. The foliations cut the core at about 45°.

39.9' - 102.0' B.I.F., magnetic, f.g. dark grey, with occas. haema, masses, and g.n. bands up to 2 feet wide, and some small red garnets.

73' - 77' No core here only black mud, which was washed away and lost.

102' End of hole (still in B.I.F.)

Sampled for assay:-

Hole No.	from	to	width	%sol.Fe.	%Mn.Total	Remarks
HH-1-1	39.9'	48.0'	8.1'			est. 20% Fe.
HH-1-2	48'	60'	12'			est. 21% Fe.
HH-1-3	60'	72'	12'			est. 22% Fe.
HH-1-4	72'	84'	12'			est. 23% Fe.
HH-1-5	84'	93'	9'			est. 22% Fe.
HH-1-6	93'	102'	9'			est. 20% Fe.

NOTE: The whole core was sampled for assay. Assay rejects are being retained for future checks and concentration tests. The balance of the core is stored at Hardie's campsite at Brandy's Field on the North bank of Opimika Creek on claim No. T 57427. The hole was drilled with a Winkie drill giving EXT core. The core was logged by

A. Hopkins.

A. Hopkins, B.A.Sc.
Consulting Geologist.

GEOLOGICAL ASSOCIATION OF CANADA
Albert Hopkins
FELLOW

#10

201 0354 Dupl. (Assay missing)

12-12-241

LOG OF IRON CITY'S DDH. # HH-2

Collar Co-ords.	Dip	Depth	Claim No.	Started	Finished
30'N. 566'W	-90°	101'	T.44085	21.5.66	24.5.66

0' - 61' B.I.F., magnetic, fg., dark grey, with occas. hema masses & masses & Gn. bands up to 2' wide, containing small red garnets. The foliation cuts the drill core at about 45°. Samples cut:-

Sample No.	from	to	width	Est. % Fe.	Actual Assay		
					Fe	Mn.	Combined
HH. 2-1	0'	3'	3'	20%	17.6	1.74	19.34
HH. 2-2	3'	15'	12'	25%	25.2	1.65	26.85
HH. 2-3	15'	27'	12'	22.5%	23.2	1.34	24.54
HH. 2-4	27'	44'	14'	20	20.1	1.42	21.52
HH. 2-5	44'	61'	17'	17.5%	16.9	0.87	17.77
HH. 2-6	61'	73'	12'	10	9.0	0.52	9.52
HH. 2-7	73'	85'	12'	10			
HH. 2-8	85'	101'	16'	10			

61' - 85' Gneiss (Garn. - Bi. - Hb - magnetite) sl. magnetic. a lean I.F.

85' - 101' Gneiss (Bi. - Hb.) cg., dark grey, "salt & pepper". non magnetic.

101' End of hole.

NOTE:-

This standard EXT - size core was sampled whole (not split), and the iron sections assayed by the Ont. Dept. Mines. The bal. of the core is stored at the campsite at Brandy's Field.
The core was logged by

A. Hopkins
A. Hopkins, B.A.Sc.
7 Nov. 1966.

201 0355 Dept (Assay-in.)

		Specimen #	from	Width
77.0'- 78.0'	GRANITE GNEISS, alt. to Muscovite Schist.	69-1-3	73.4'	3"
74.3'- 74.5'	Lost core.			
78.0'-101.0' except for:-	MUSCOVITE-BIOTITE SCHIST.	69-1-4	96.5'	3"
77.9'- 78.4'	Lost core.			
82.5'- 82.9'	" "			
88.0'-88.5'	" "			
101.0'	End of hole.			

Note:-
The core is stored in small wooden boxes (2½ ft. long) in the basement storeroom of Iron City Mines Ltd., 555 Burnhamthorpe Rd., Mississauga, Ontario.

Toronto, Ont., 20 Dec. 1969. Albert Hopkins Jr. Geologist.

LOG OF IRON CITY'S DDH #H-3

Collar Co-Ords:	Dip	Depth	Claim No.	Started	Finished
541'NW.368'SW.	-90°	103'	T.44085	10.6.66	17.6.66

0' - 60' BIF., magnetic, fg., dark grey, with occas. hema bleb & beds of gn. up to 2' wide, containing much Bi & some small red garnets. The foliation cuts the core at about 45°. Samples cut:-

Sample No	from	to	width	Est. %Fe	Actual Assays Fe	Mn	Combined
HH.3-1	0'	12'	12'	22%			
HH.3-2	12'	24'	12'	25%			
HH.3-3	24'	40'	16'	25%			
HH.3-4	40'	60'	20'	22.5%			

60' - 68' Gneiss Bi-Hb. - light grey, fg. non-magnetic, with much ground core

68' - 82' Gneiss (Bi-Garn.)

82' - 83' Core taken by A. Hardie.

83' - 86' Bi. Gn. light grey, sl. magnetic.

86' - 99' Much grinding & lost core. Box marked "crack" and "crevass".

99' - 103' Dior. Gn., vfg., sil, non-magnetic.

103' End of hole.

NOTE:-

This standard EXT -size core's I.F. sections were sampled whole, and assayed by the Ont. Dept. of Mines. The bal. of the core is stored at the campsite at Brandy's Field. The core was logged

by

A. Hopkins

A. Hopkins, B.A. Sc.

A. Hopkins.

7 Nov. 1966.

201 0190 Def!

LOG OF IRON CITY'S DDH. #10

Colla Co-Ords:-	Strike	Dip	Slope Length	HD. & VD.	Claim No.	Started	Finishe
430'W 530'N	115°	-45°	515'	361'	T. 44085	10.8.66	20.8.66

0' - 6'		Casing
6' - 41'		Limestone (LS.) sil., dark grey, black & white, "salt & Pepper", with much f.g. Bi. almost normal to core.
41' - 256'		B.I.F. very magnetic, very much banded like Augdome's Porcupine I.F. in places, except for:- 55.0' - 58.0' Horse of Bi - Garn. Gn. 70.5' - 75.0' ditto 112.5' - 122.0' ditto, but more Garn. than Bi. 175' - 197' ditto, but more Bi. than Garn. In many, if the minor slips the slickensides (oblique) show born colours, e.g. at 165' much cp. & born. at 174' ditto, also at 202' and 208'. Po. at 203' to 205', 208', 227.5', 232.5', 238', 241', 242', 240.5' and 246'.
256' - 285'		Pyrrhotized I.F. - all magnetic, the po is dissem.
285' - 298'		B.I.F. as usual, with minor po.
298' - 326'		Po. zone, some massive, some dissem., all magnetic.
300' - 317'		Horse of ferromagnes. Silicates. (Hb, Aug. Bi. etc.)
326' - 330'		Bi. Gn.
330' - 342'		B.I.F., with well-dissem. po.
342' - 357'		Basic rock, dark, dense, fg., containing dissem. po.
357.0' - 381.5'		Bi. G. & B.I.F. intermixed, slightly magn.
381.5' - 384.5'	= 3'.	Bi. Gn.
384.5' - 423.0'	= 38.5',	Amph. Gn. I.F., cg. very magnetic.
423' - 479'		Bi. Gn.
479' - 503'		Sil L.S., White
503' - 515'		Basic rock, black, fg., dense, sl. magn., blocky, hi in red hema & lo in magnet. It burned out the bit and caused the drillers to cement the hole with little success.
515'		End of hole.

(cont'd)

Samples Cut by A. Hopkins

Sample No.	From	To	Width	Est.% Fe	Remarks	Actual Assay
10 - 1	41'	66'	25'	25	Typical Cook Zone	19.0
10 - 2	66'	91'	25'	25	" " "	11.6
10 - 3	91'	112.5'	21.5'	20	" " "	18.3
10 - 4	122'	147'	25'	15	" " "	10.1
10 - 5	147'	175'	28'	20	" " "	13.2
10 - 6	197'	222'	25'	18	" " "	15.7
10 - 7	222'	256'	34'	15	" " "	11.8
10 - 8	256'	285'	29'	15	Much dissem. po.(Tr. only in Ni. Co. Pt. Au. Ag.)	19.5
10 - 9	258'	298'	13'	12.5	The usual B.I.F.	11.5
10 - 10	298'	326'	28'	15	50% po. but Tr. Ni., Co. Pt. Au. Ag. Cu.	16.0
10 - 11	330'	342'	12'	15	B.I.F. with some dissem. py.	15.4
10 - 12	342'	367'	15'	17.5	fg. black some dissem. py. Tr. Ni. Co. Pt. Ag. Au.	18.1
10 - 13	357'	381.5'	24.5'	10	Lo grade B.I.F.	10.1
10 - 14	384.5'	403.7'	19.2'	25	cg. amph. gn & magnetite	16.22% Fe.
10 - 15	403.7'	423.0'	19.3'	25	ditto	
			343.5'			

NOTE:-

Hole No. 10 is the start of the 2nd X-Sec'n. across the extreme N. end of the Cook Zone. It should be about 2000' long and comprise holes 10, 11, 12 and 13. The grade in this hole is dissappointingly low, 15.2% sol. Fe., but the extent encouraging, i.e., 343.5' out of 423' or about 81% I.F., almost true width. The whole AXT. I.F. sec'ns. were sampled for assay, the bal. of the core being stored by the hole's collar. The core samples were assayed by the Ont. Dept. Mines.

The core was logged and sampled by

A. Hopkins.

A. Hopkins, B.A. Sc.

7 Nov. 1966.

201 C.14

VENTURES CLAIMS LTD. 12-12-241

PROPERTY Claim T-44085

HOLE NUMBER 60-1

SHEET NUMBER 1

SECTION FROM 0 TO End

DIAMOND DRILL RECORD

LOCATION: LAT. 400' in direction N 46° W
DEP. from dam on Opimika Creek

ELEVATION OF COLLAR

DATUM

DIRECTION AT START: BEARING S 65° E
DIP - 50°

STARTED July 27, 1960.

COMPLETED July 30, 1960.

ULTIMATE DEPTH 318

PROPOSED DEPTH

201 0210

DEPTH FEET	FORMATION	FROM	TO	WIDTH OF SAMPLE				
0 - 57	Overburden							
57 - 70.5	Biotite - feldspar gneiss. Banding at 90° to core.							
70.5 - 79.2	Epidote-Carbonate-Biotite gneiss.							
79.2 - 87.0	Garnet-epidote-biotite gneiss.							
87.0 - 113.8	Epidote-quartz-biotite gneiss.							
113.8 - 121.0	Garnet-quartz-biotite gneiss.							
121.0 - 133.5	Epidote-biotite gneiss.							
133.5 - 141.3	Garnet-quartz-biotite gneiss.							
141.3 - 226.0	Epidote-amphibole-quartz gneiss. Banding at 90° to core.							
226.0 - 318.0	Amphibole schist.							
	END OF HOLE							

NORTH Line 2 South — STARTED Aug. 2, 1960

EAST 800 West — COMPLETED Aug. 3, 1960

ELEV. 787.0' — LENGTH 90.0'

BEARING ~~Grid East~~ (S65° E)

DIP -50°

VENTURES LIMITED

DIAMOND DRILL RECORD

PROPERTY

TERRELL IRON PROJECT - Parkman Twp.

Claim T-44085

PURPOSE _____

_____

_____

LOGGED BY _____

HOLE No. 60-2

CLAIM _____

SECTION _____

OFFSET _____

PLOTTED _____

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
0.0 - 90.0	OVERBURDEN END							

20' 0211

DIAMOND DRILLING

TERRELL IRON PROJECT

Calculation of Assessment Work Credit for Hole 60-2
(Reported as work done by mechanical equipment)

		Date (1960)	Hours Worked		÷ 3	Credit Days Work
1.	R. La Roche, 5623 Waverly St., Montreal, Que. (Drill runner)	Aug. 1	8		2-2/3	2-2/3
		2	16	x	4	4
		3	12		4	4
		4	4		1-1/3	1-1/3
2.	D. Beaulieu, Noelville, Ont. (Drill runner)	Aug. 1	8		2-2/3	2-2/3
		2	12		4	4
		3	15	x	4	4
		4	4		1-1/3	1-1/3
3.	E. Paquette, 557 Fisher St., North Bay, Ont. (Helper)	Aug. 2	4		1-1/3	1-1/3
		3	8		2-2/3	2-2/3
4.	S. McCall 654 Commercial St., North Bay, Ont. (Helper)	Aug. 2	4		1-1/3	1-1/3
		3	8		2-2/3	2-2/3
		4	4		1-1/3	1-1/3
5.	V. Chatelaine, R. R. 2, North Bay, Ont. (Helper)	Aug. 2	8		2-2/3	2-2/3
		3	8		2-2/3	2-2/3
		4	4		1-1/3	1-1/3
				Total		40

x In accordance with Sect. 81. (4) of the Mining Act only 12 hours per day may be claimed for a workman: hence in this computation only 12 hours, rather than the actual hours worked, has been employed.

P E Giblin

DIAMOND DRILLING

TERRELL IRON PROJECT

This mining claim is one of a group of contiguous claims numbered:

T-44085, 44086, 44087, 44088, 47602, 47527, 48007, 48008, T-48009, 48381, 48382, 48015, 48392, 48035, 48038, 47027, T-47028, 47026.

P E Giblin NF

44085

NORTH Line 2 South
EAST 650' West
ELEV. 784'
BEARING Grid East
DIP -50°

STARTED Aug.5, 1960
COMPLETED Aug. 8, 1960
LENGTH 393.0'

VENTURES LIMITED
DIAMOND DRILL RECORD

PROPERTY
TERRELL IRON PROJECT - Parkman Twp.
Claim T-44085.

PURPOSE
LOGGED BY P.E.Giblin

HOLE No. 60
CLAIM
SECTION
OFFSET
PLOTTED

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.	
0.0 - 41.0	OVERBURDEN				
41.0 - 116.0	IRON FORMATION. Banding at 90 to core. Amphibole bands carry approximately 2% fine-grained disseminated pyrrhotite	27	41.0 - 51.0	10.0	8.66
		28	51.0 - 61.0	10.0	8.51
		29	61.0 - 71.0	10.0	13.95
		30	71.0 - 81.0	10.0	15.64
		31	81.0 - 91.0	10.0	15.95
		32	91.0 - 101.0	10.0	17.17
		33	101.0 - 111.0	10.0	6.98
		34	111.0 - 116.0	5.0	11.73
116.0 - 123.8	BIOTITE-GARNET-QUARTZ GNEISS, no magnetite.				
123.8 - 127.2	IRON FORMATION, contains narrow bands of gneiss	35	123.8 - 127.2	3.4	9.05
127.2 - 153.2	BIOTITE-GARNET-QUARTZ GNEISS, contains small, rare, quartz-pyrrhotite veins				
153.2 - 180.4	IRON FORMATION. Banding at 90 to core, except at 165' where much contorted over 1/2 foot	36	153.2 - 160.0	6.8	6.44
		37	160.0 - 170.0	10.0	8.36
		38	170.0 - 180.4	10.4	13.65
180.4 - 185.6	BIOTITE-GARNET-QUARTZ GNEISS				
185.6 - 220.5	IRON FORMATION	39	185.6 - 195.6	10.0	10.89
		40	195.6 - 205.6	10.0	1.84
		41	205.6 - 215.6	10.0	12.65
		42	215.6 - 220.5	4.9	5.06
220.5 - 229.2	BIOTITE-GARNET-QUARTZ GNEISS				
229.2 - 234.0	IRON FORMATION. Skarn-like massive rock consisting of garnet, carbonate, quartz, amphibole, pyroxene, and magnetite.	43	229.2 - 234.0	4.8	4.79

RR 6212

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.	% A.S. Fe	% Ni
234.0 - 237.4	BIOTITE-GARNET-QUARTZ GNEISS					
237.4 - 318.0	IRON FORMATION. From 261.0-271.0 contains approximately 15% disseminated pyrrhotite: from 271.0-294.0 carries about 5% disseminated pyrrhotite. From 294.0-318.0 ca carries about 2% pyrrhotite. The pyrrhotite is intensely magnetic.	44	237.4 - 247.4	10.0	7.12	
		45	247.4 - 254.0	6.6	10.52	
		46	254.0 - 261.0	7.0	14.39	
		47	261.0 - 271.0	10.0	13.68	Not detected
		48	271.0 - 281.0	10.0	10.91	" "
		49	281.0 - 291.0	10.0	13.92	" "
		50	291.0 - 301.0	10.0	11.86	" "
		51	301.0 - 311.0	10.0	13.60	
		52	311.0 - 318.0	7.0	9.73	
318.0 - 337.1	BIOTITE-GARNET-QUARTZ GNEISS. Carries minor amount erratically disseminated pyrrhotite.					
337.1 - 338.5	IRON FORMATION					
338.5 - 393.0	MUSCOVITE GNEISS					
393.0	END OF HOLE					
	DIP TESTS:					

DEPTH	ETCH ANGLE	CORRECTED
150'	53°	45°
300'	51°30'	43°30'

T 44087

NORTH Line 20 South
EAST 490 West
ELEV. 765.0'
BEARING Grid East
-50°
DIP

STARTED Aug. 10, 1960
COMPLETED Aug. 12, 1960
LENGTH 355.0'

VENTURES LIMITED
DIAMOND DRILL RECORD

PROPERTY
TERRELL IRON PROJECT - Parkman Twp.
Claim T-44087.

PURPOSE

LOGGED BY R. E. Gablin

HOLE No. 64
CLAIM
SECTION
OFFSET
PLOTTED

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.	% A.S. Fe	% Cu
0.0 - 43.0	OVERBURDEN					
43.0 - 60.5	BIOTITE-GARNET-QUARTZ GNEISS, contains a few very narrow bands of iron formation.					
60.5 - 117.2	IRON FORMATION. Banding at 90° to core.	53	60.5 - 70.5	10.0	22.78	
		54	70.5 - 80.5	10.0	17.87	
		55	80.5 - 90.5	10.0	21.51	
		56	90.5 - 100.5	10.0	13.64	
		57	100.5 - 110.5	10.0	7.99	
		58	110.5 - 117.2	6.7	14.39	
117.2 - 121.5	BIOTITE-GARNET-QUARTZ GNEISS					
121.5 - 182.0	IRON FORMATION. From 149.3-172.0 carries very little amphibole, consists largely of chert bands alternating with garnet-biotite bands. From 172.0-182.0 carries rare very small veinlets of chalcopyrite. Estimated copper content of this section less than 0.5%.	59	121.5 - 131.5	10.0	11.07	
		60	131.5 - 141.5	10.0	9.57	
		61	141.5 - 149.3	7.8	7.92	
		62	149.3 - 159.3	10.0	4.88	
		63	159.3 - 172.0	12.7	5.46	[illegible]
		64	172.0 - 182.0	10.0	19.0	[illegible]
182.0 - 195.6	BIOTITE-GARNET-QUARTZ GNEISS					
195.6 - 236.2	IRON FORMATION, carries approximately 5% disseminated pyrrhotite. From 230.0-236.2 rock is very rich in chert.	65	[illegible]			
		66	[illegible]			
		67	[illegible]			
		68	[illegible]			
236.2 - 244.6	BIOTITE-GARNET-QUARTZ GNEISS					
244.6 - 249.0	IRON FORMATION					
249.0 - 254.2	BIOTITE-GARNET-QUARTZ GNEISS					
254.2 - 256.0	IRON FORMATION					

FOOTAGE	DESCRIPTION
258.0 - 262.0	BIOTITE-GARNET-QUARTZ GNEISS
262.0 - 277.0	IRON FORMATION
277.0 - 299.0	BIOTITE-GARNET-QUARTZ GNEISS
299.0 - 304.1	IRON FORMATION
304.1 - 308.5	BIOTITE-GARNET-QUARTZ GNEISS
308.5 - 329.8	IRON FORMATION
329.8 - 334.0	BIOTITE-GARNET-QUARTZ GNEISS
334.0 - 336.5	IRON FORMATION, carries negligible magnetite
336.5 - 355.0	BIOTITE-GARNET-QUARTZ GNEISS
355.0	END OF HOLE

DIP TESTS

DEPTH	RICH ANGLES	CORRECTED
150'	53°	45°
300'	52°30'	45°

§ 4.8

SAMPLE	FOOTAGE	C.L.	Fe
72	262.0 - 272.0	10.0	9.57
73	272.0 - 277.0	5.0	8.86
74	299.0 - 304.1	5.1	7.20
75	308.5 - 318.5	10.0	9.81
76	318.5 - 329.8	11.3	10.99

NORTH Line 16 South
EAST 500 West
ELEV. 764'
BEARING Grid East
DIP -50°

STARTED Aug. 13, 1960
COMPLETED Aug. 15, 1960
LENGTH 306.0'

VENTURES LIMITED

DIAMOND DRILL RECORD

PROPERTY
TERRELL IRON PROJECT - Parkman Twp.
Claims T-44086, 44088.

PURPOSE
LOGGED BY P. E. Giblin

HOLE No. 60-5
CLAIM
SECTION
OFFSET
PLOTTED

FOOTAGE	DESCRIPTION	SAMPLE	FOOTAGE	C.L.				
0.0 - 55.0	OVERBURDEN							
55.0 - 60.5	BIOTITE-GARNET-QUARTZ GNEISS							
60.5 - 169.2	IRON FORMATION. Banding at 85°-90° to core.	77	60.5 - 70.5	10.0	16.77			
		78	70.5 - 80.5	10.0	13.37			
		79	80.5 - 90.5	10.0	27.05			
		80	90.5 - 100.5	10.0	23.02			
		81	100.5 - 110.5	10.0	22.15			
		82	110.5 - 120.5	10.0	15.82			
		83	120.5 - 130.5	10.0	14.63			
		84	130.5 - 140.5	10.0	8.54			
		85	140.5 - 150.5	10.0	17.08			
		86	150.5 - 160.5	10.0	20.41			
		87	160.5 - 169.2	8.7	17.48			
169.2 - 195.4	BIOTITE-GARNET-QUARTZ GNEISS. Quartz lenses prominent, and are much contorted. Rock contains numerous narrow bands of iron formation, all less than 0.2 feet thick.	88	169.2 - 179.2	10.0	9.33			
		89	179.2 - 189.2	10.0	9.02			
		90	189.2 - 195.4	6.2	6.80			
195.4 - 304.0	IRON FORMATION. Banding at 85°-90° to core.	91	195.4 - 205.4	10.0	15.82			
		92	205.4 - 215.4	10.0	15.74			
		93	215.4 - 225.4	10.0	13.21			
		94	225.4 - 235.4	10.0	13.76			
		95	235.4 - 245.4	10.0	16.93			
		96	245.4 - 255.4	10.0	11.07			
		97	255.4 - 265.4	10.0	11.07			
		98	265.4 - 275.4	10.0	6.80			
		99	275.4 - 285.4	10.0	10.20			
		100	285.4 - 295.4	10.0	12.81			
		101	295.4 - 304.0	8.6	16.19			
304.0 - 306.0	BIOTITE-GARNET-QUARTZ GNEISS, with bands of amphibolite (core)							

END
CORRECTED
-50°

VENTURES CLAIMS LIMITED

HOLE NUMBER 60-6

ROPERTY Claim T - 47602

SHEET NUMBER 1

DIAMOND DRILL RECORD

SECTION FROM 0 TO end

LOCATION: LAT. Line 14 South
DEP. 450' West

ELEVATION OF COLLAR 765'

DATUM Sea-level

DIRECTION AT START: BEARING S 65° E (Grid east)
DIP - 70°

STARTED August 16, 1960

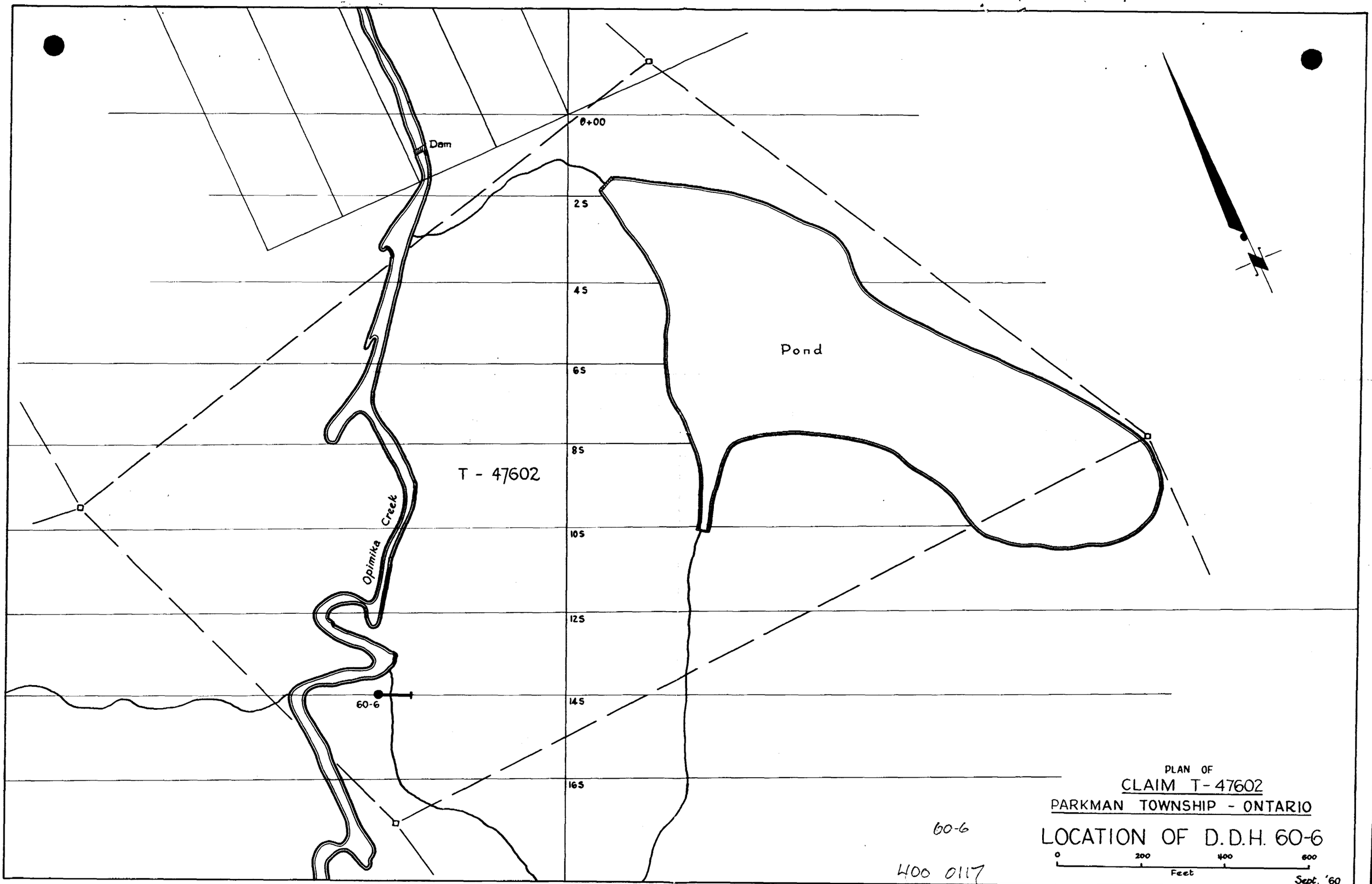
COMPLETED August 18, 1960

ULTIMATE DEPTH 196.0'

PROPOSED DEPTH

DEPTH FEET	FORMATION	FROM	TO	WIDTH OF SAMPLE				
0.0 - 38.5	OVERBURDEN							
38.5 - 196.0	IRON FORMATION. Consists of alternating bands of magnetite, white chert, green amphibole. Banding at average of 15° to core axis							
196.0	END							
	Dip Tests.							
	Depth Etch Angle Corrected							
	150' 72° 68°							

40' 047



PLAN OF
CLAIM T-47602
PARKMAN TOWNSHIP - ONTARIO

LOCATION OF D.D.H. 60-6

0 200 400 600
Feet

Sept. '60

60-6

400 0117

12-3-239

LOG OF IRON CITY M.L. DRILL HOLE NO. 8

Collar Co-Ords:- 6 SW, 6 NW
Lengths: Proposed 1000'
Actual Slope 750'
Started:- 13.6.66

Claim No.:- T 47602
Dip:- -45°
Strike:- 115°
Finished:- 26.7.66

0' - 35' Casing.

35' - 725' = 690' gross. B.I.f., mostly dark grey, occas. dark brown or light grey - green, fairly sil., much like holes HH-1, HH-2 and HH-3. It contains lean and barren bands and horses of gneiss and Phy., as follows:-

50' -	51' =	1:0	Garn.-Bi.Gn.,m.g.-black with pink garn.
76' -	79' =	3:0	" " " " " " " "
142' -	171' =	29:0	" " " " " " " "
200' -	205' =	5:0	" " " " " " " "
230.0' -	233.5' =	3.5'	" " " " " " " "
354.5' -	398.0' =	43.5'	Bi. Sch., black, f.g.
422' -	441' =	19:0	Bi. Garn. Gn.
451' -	464' =	13.0'	Alt. fels. phy.Gn. greenish-grey with porphyroblasts.
486' -	564' =	78.0'	Garn.-Bi. Gn., f.g.
666' -	683' =	17:0	Bi. Garn. Gn., cg. becoming fg.
699.0' -	709.5' =	10.5'	Garn. Gn., c.g.
	TOTAL	222.5'	

No Core - (ground up and lost):-

361' - 362'
368.5' - 370.0'
382' - 383'
707' - 708'
721.5' - 723.0'

@ 407.5' - 1" po. Occas. po & py elsewhere in slips and clusters.

SAMPLES

No.	From	To	Width	Est.Fe. & Remarks	%sol.Fe.
8-1	35'	58'	23'	10%	7.83
8-2	58'	82'	24'	15%	12.7
8-3	82'	112'	30'	15%	14.4
8-4	112'	142'	30'	20%	18.9
8-5	171'	200'	29'	20%	19.0
8-6	205'	230'	25'	15%	11.6
8-7	233.5'	259'	25.5'	10% only sl. mag.	9.76
8-8	259.0'	290.5'	31.5'	15% only sl. mag.	10.7
8-9	290.5'	322.0'	31.5'	15% only sl. mag.	12.0
			249.5'		

No.	From	To	Width	Est.Fe. & Remarks	%Sol.Fe.
			249.5'		
8-10	322.0'	354.5'	32.5'	10%	9.11
8-11	398'	422'	24.0'	15%	14.7
8-12	441'	451'	10.0'	10%	9.86
8-13	464'	486'	22.0'	15%	13.4
8-14	564'	590'	26.0'	15%	12.0
8-15	590'	616'	26.0'	15%	11.9
8-16	616'	641'	25.0'	20%	16.8
8-17	641'	666'	25.0'	20%	18.9
8-18	683'	699'	16.0'	20%	15.9
8-19	709.5'	725.0'	15.5'	15%	13.2
		TOTAL I.F.	471.5'		
		less 4' horses	4.0		
			467.5'		

$\frac{467.5}{690.0}$ = 68% I.F. and 32% waste.

725' - 750' Garn. Gn., mg. dull pink dark grey.

750' End of hole, as hole was mudding & sanding badly.

NOTE: This hole was drilled to cross-section the Cook Zone along picket line 6 SW. The AXT hole was stopped as the drillers could barely turn the rods at the end and almost lost the hole, as hole V-3 was lost. The hole started in I.F. and probably finished still in I.F. (in a horse) so it has a true width of at least 750 ft. and a horiz. width of perhaps 1000 ft. at this section. Thus to date there would appear to be sufficient tonnage to feed a large concentrator, but the grade is on the low side. The next hole (No. 9) is to go vertically from this same set-up to give us an accurate cross-section of dips, etc. The whole core was assayed, with rejects saved for future tests. The balance of the core is stored near the collar. The core was logged by,

A. Hopkins.

A. Hopkins.

A. Hopkins.

7 Nov. 1966.

#10

(X1)

LOG OF IRON CITY'S DDH. #9 12-3-239 (4)

Collar Co-Ords:-	Dip	Depth	Claim No.	Started	Finished
6SW., 6NW.	-90°	457'	T.47602	29.7.66	8.8.66

0' - 40' Casing

40' - 415' - 375' magn. B.I.F., [illegible] including gangue horses.

40.0' - 41.5' B.I.F., grey, low grade, estim. 20% sol. Fe.

41.5' - 47.0' Gn. (garnetif.)

47.0' - 78.0' B.I.F. lo grade, est. 20% Fe.

@ 49.5', 59.5', 83.0', 95.0' & 99.5' 1/2" sch. with cp. (chalcopyrite) & born. in X fractures.

78' -79' Bi. Gn.

79' - 105' B.I.F. as above

105' - 114' Bi.- Garn. Gn.

114' - 165' B.I.F.

@ 115.5' A few blebs of pr. (Pyrrhotite)

165.0' - 168.5' Garn. - Bi. Gn.

168.5' - 176.0' B.I.F.

176.0' - 208' Garn. - Bi. Gn.

208' - 246' B.I.F.

246' - 254' Garn. - Bi. Gn.

@ 254' Cp. in a slikensided slip.

254' - 315' B.I.F.

@ 298' 3" core taken by Fred Effinger

@ 295' a few blebs of po.

@ 318' ditto

@ 313 A minor slip - slikensided

@ 315 A major X slip cuts the BIF. @ 30° & at an angle of 60° to strike, & cuts the core @ 15°. Contains gouge material

315' - 340' Gn. Sch. & slate, very sil. in places; sl. mag. & banded.

@ 338.5' Gn. A minor slip cutting core @ 15°, contains a tr. of born.

201 0420

IRON CITY DDH. #9 Cont'd

340' - 415'	Weakly magn. B.I.F., containing consid. dissem. po.
@ 410'	Some po.
413'	2" Po & garns.
415' - 457'	Interbedded Gn. Silica, Bi. Garn., silicates & slate, esp. Bi.
457'	End of hole.

Samples of whole AXT core cut by A. Hopkins & sent to Pickands Mather & Co. Lab. at Hibbing, Minn.

Sample No.	from	to	Width	Remarks
9-1	40'	60'	20'	Est. 20% Fe.
9-2	60'	80'	20'	Est. 20% Fe.
9-3	80'	100'	20'	"
9-4	100'	120'	20'	"
9-5	120'	140'	20'	"
9-6	140'	160'	20'	"
9-7	160'	176'	16'	"
9-8	208'	227'	19'	"
9-9	227'	246'	19'	"
9-10	254'	275'	21'	"
9-11	275'	297'	22'	"
9-12	297'	315'	18'	"
9-13	340'	365'	25'	Est. 35% Fe
9-14	365'	390'	25'	"
9-15	390'	415'	25'	"
	Total		310'	Est. 17% sol magn. Fe.

NOTE:

This vertical hole was drilled from the same set up as No. 8 in order to obtain a good X-Section for dips and depth trends. The assays as yet have not been reported to us by Pichands Mather & Co. This X-Section is the first of 3 or 4 to be done, as well as surface bulk sampling to ascertain the overall average recoverable magnetic iron probable grade. The balance of the core is stored by the hole collar.
The core was logged by

A. Hopkins.

A. Hopkins, B.A.Sc.,
Consulting Geologist.
7 Nov. 1966.

201 0421

LOG OF IRON CITY M.L. D.D.H. #3-A
GREEN CREEK

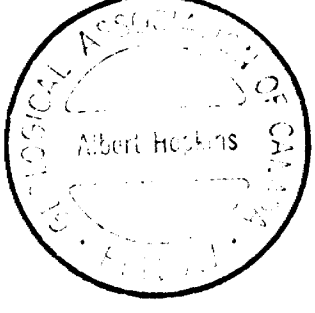
Collar Co-Ords: 7075'S, 1710'W
Strike: 22°
Dip: -58°N
Proposed Length: 1000'
Actual Length: 862'

Started: 18-1-66
Finished: 30-1-66
H.D. 457'
V.D. 736'
Claim Number: T.57278
Parkman Twp.

0' - 142'	Casing. This hole is 75' ahead of abandonned Hole #3.
142' - 161'	B.I.F. - magnetic. Cuts core at about 5°. Interbedded with Bi. gn. Est. 22% Fe. Sample #3A-1 across 19' = 26.3% Fe plus 1.48 mn.
161' - 190' (29')	Bi orthogn. Probably this is the Green Creek F.W. Black, interbedded or interbanded with pegmas, Bi. sch., and aplite dykelets. (Typical Grenville formations.)
190' - 216' (26')	Meerschsum-coloured carb-Q-Bi-Chlor. sch. interbanded with pegmas and Bi. Gn. (Type "2M")
216' - 282'	Dior. Gn., fig., very dark grey.
282' - 285'	Breccia (Q. & f.g. dior. gn.)
285' - 305'	Dior, f.g., very dark.
305' - 307'	Chlor. Sch., light green.
307' - 520'	Dior, f.g., very dark, homogen.
520' - 528'	(Sample #3A-2 across 8' for Au.) Tr. Av. Barren-looking Q. breccia.
528' - 604'	Bi-Hb. (lava?) sch. Med.-(occas. light-green.
604' - 631'	Meerschaum coloured Q-calc. band, containing some streaks of dark-coloured Bi-Hb-Chlor. Sch.
631' - 653'	Hb-Bi Gn.
653' - 667'	"Meerschaum" as above.
667' - 690'	F.g. dior. or m.g. andes., dark grey in colour (Type "5")
690' - 720'	"Meerschaum", interbanded with chlor-Hb.-Bi.Sch. and some Q. strs. and brecc. (Type "2M")
720' - 759'	F.g. Dior. as above, cut by gran. pegma. dykelets (5 and 11) and Q. strs.
759' - 781.5'	"2M"
781.5' - 796'	"5" and "11"
796' - 799'	"2m"
799' - 825'	Bi. Gn. ("1")
825' - 862'	"2m"
862'	End of hole.

NOTE: Hole #3 @ -45° was abandoned in ob. at 103'. The rig was then moved ahead 75' along the same strike (22°) to the collar set-up of this hole (3-A), and this time we were successful in reaching bedrock from an island in Green Creek at 142' @ -58°. However the hole was steeper than we really wanted it, and it remained under the main iron formation which dips away from it. The core is AXT size and is stored at Barnett's Opimika Camp in Parkman Township on Troutbait Lake. Whole core samples were taken of the Iron Formation. Core was logged by A. Hopkins, B.A.Sc.

A. Hopkins.
A. Hopkins.
7 NOV. 1966.



ROI 0367

~~REPORT #10~~

LOG OF IRON CITY M.L. D.D.H.#5. BISHOP ZONE.

(1)

COLLAR CO-ORDS: 83 S
20 E

PROPOSED LENGTH: 850'
ACTUAL LENGTH: 844'

DIP: -45°N
STRIKE: 8.5°

CLAIM NO: T.53639

STARTED: 19-2-66
FINISHED: 3-3-66

Parkman

0' - 4'	Casing. This hole was spotted on an outcrop area in deep snow
4' - 15'	Bi-Hb. Sch.-iron-rich, rusty in places, c.g. v.sl.magn.
15.0'-103.5'	(88.5') I.F. Magn.-Bi-Hb. Gn., magnetic, m.g., dark grey, with intermittent bands of magn. & non-magn. gn.
103.5'-123.0'	Aplite or some other sil. dyke.
123.0'-130.0'	(7') Magn. Gn. (Sample #5-6).
130.0'-145.0'	Bi. Gn.
145.0'-177.5'	(32.5') Sample #5-7 for Fe, Ni, & S, as there is f.w.m.po. from 176.0'-177.5'. Magn. Gn. = 10.5% Fe.
177.5'-178.5'	B.Q.V.
178.5'-193.0'	Bi mica Sch.
193.0'-207.0'	No core, either groupd up mica, or a cave or vug here.
207.0'-217.0'	Bi Sch., very dark in colour.
217.0'-254.0'	Syen Gn., containing spots of salmon-coloured orthoclase, and no Q.
254.0'-257.0'	Sample #5-8 for Au across 3'. Q.V.,sl.pink & barren-looking.
257.0'-291.0'	Syen. Gn. as above.
291.0'-321.0'	Dior., v.f.g., gneissic, dark grey colour.
321.0'-498.0'	Bi. Sch., dark grey colour.
498.0'-844.0'	Syen.Gn.(as above with salmon-spotted orthocl.) except for:
	557.5'-558.5' B.Q.V.
	600.0'-603.0' No core.
	739.5'-744.0' Syen.phy. dyke, reddish.
	763.5'-764.0' b.Q.V.
	765.0'-773.0' Syen. phy. dyke, reddish.
	837.5'-840.0' Lamp. or apl. dyke, grey colour.
844.0'	END OF HOLE.

NOTE: This hole was spotted to cross-section the Bishop Zone north of Little Otter Lakes - i.e. the I.F. as mapped by Ventures and Arnold/Hardie's c.g. magn. zone. The results are disappointing, as shown on the following table, so the I.F. must be discontinuous, faulted, lenticular, or very contorted and erratic. Hole #6 will now be drilled vertically from this same set-up.

HOLE #5 SAMPLING

NO.	FROM	TO:	WIDTH	% SOL.FE.	REMARKS
5-1	15.0'	29.0'	14.0'		Intermittent magn.
5-2	29.0'	54.0'	25.0'		" "
5-3	54.0'	79.0'	25.0'		" "
5-4	79.0'	103.5'	24.5'		
5-6	123.0'	130.0'	7.0'		
5-7	145.0'	177.5'	32.5'	10.5%Fe, %Ni, %S. Tr. 0.85.	
			128.0'		

GEOLOGICAL ASSOCIATION OF CANADA · Albert Hopkins · FELLOW ·

RECEIVED
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MINING DIVISION

Albert Hopkins, B.A.Sc.
Consulting Geologist.
29 May 1966.

201 0407

LOG OF IRON CITY M.L. D.D.H.#6
BISHOP ZONE

COLLAR CO-ORDS: 83S 20E | PROPOSED LENGTH: 200' | DIP: -90° | STARTED: 8-3-66
ACTUAL LENGTH: 117' | STRIKE: - | FINISHED: 9-3-66
CLAIM NO: T.53639

0' - 5'	Casing.
5' - 6'	Dior. gn. (f.g.) or Andes. Sch. (c.g.), dark grey.
6' - 10'	Garnet Gn. The dark red garnet spots may orig. have been amygdules or spherules in a basalt before dynamic metamorphism.
10'- 80'	Andes Sch., dark grey, as above.
80'- 82'	Garnet, Gn. as above.
82'-117'	Andes Sch. as above.
117'	END OF HOLE.

NOTE: It was hoped that this hole, drilled from the same set-up as No. 5, would intersect the Bishop Zone I.F., as the mapped dip of the formation would indicate. However, this obviously does not occur, so the dip and/or strike must be different than shown on Ventures' map.

Albert Hopkins B.A.Sc.
Consulting Geologist.
29 May 1966.

GEOLOGICAL ASSOCIATION OF CANADA
Albert Hopkins
FELLOW

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MINING DIVISION

201 0408

ALBERT HOPKINS
CONSULTING MINING ENGINEER & GEOLOGIST
HOPKINS MINING CONSULTANTS LIMITED

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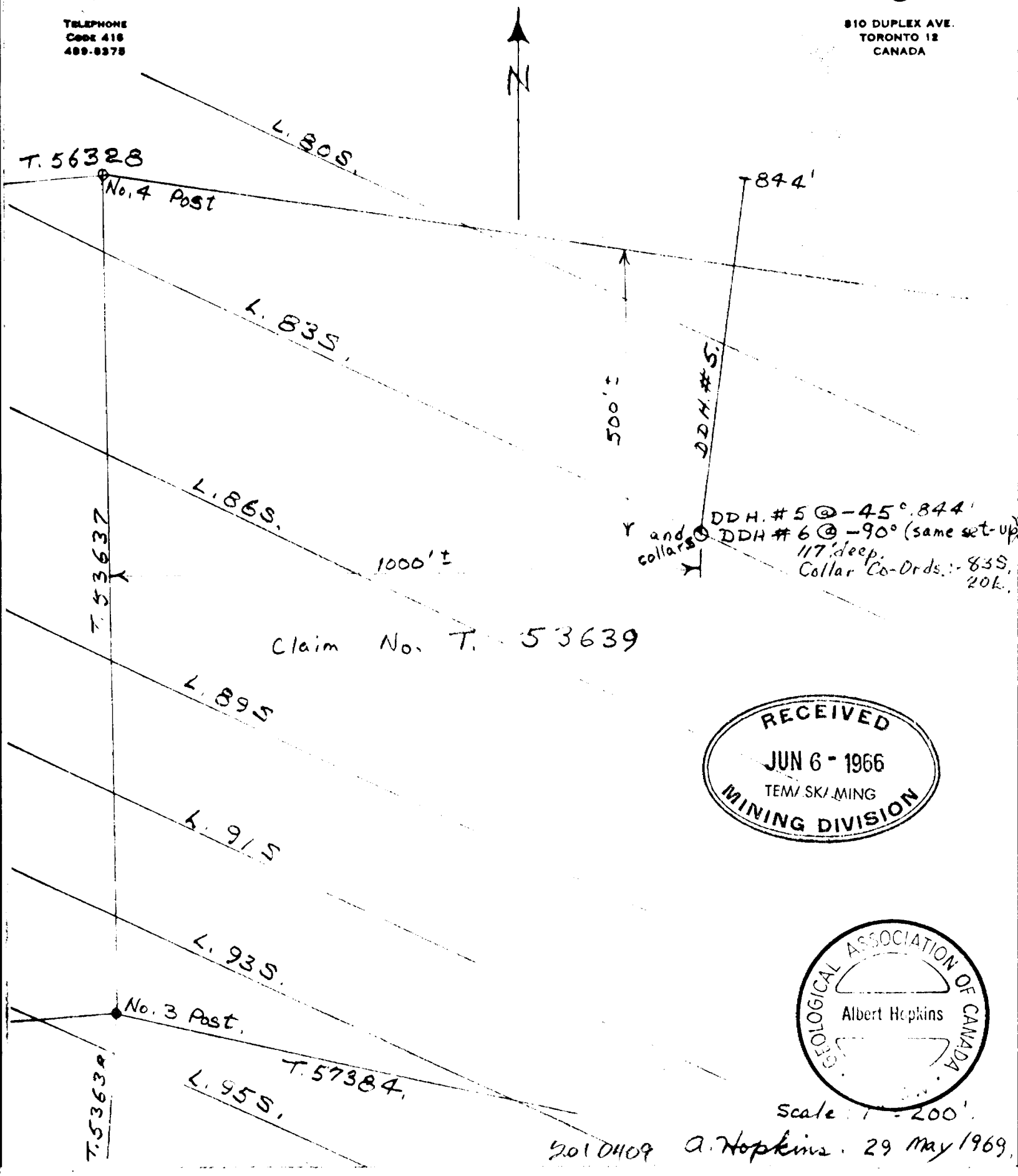

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GEOLOGICAL ASSOCIATION OF CANADA
Albert Hopkins

Scale 1" = 200'.

201 0409 A. Hopkins. 29 May 1969.

LOG OF IRON CITY MINES LIMITED DDH #17

(Claim Group No. 6 - N. Webb Lake)

Collar:- 850' N. and 125' E. of No. 3 Post or 300' S. of No. 4 Post.
Strike:- 90°
Started:- 6 Dec. 1966

Claim No.:- T 57285
Slope Length:- 361'
Dip:- -45°
HD & VD:- 243'
Finished:- 14 Dec. 1966

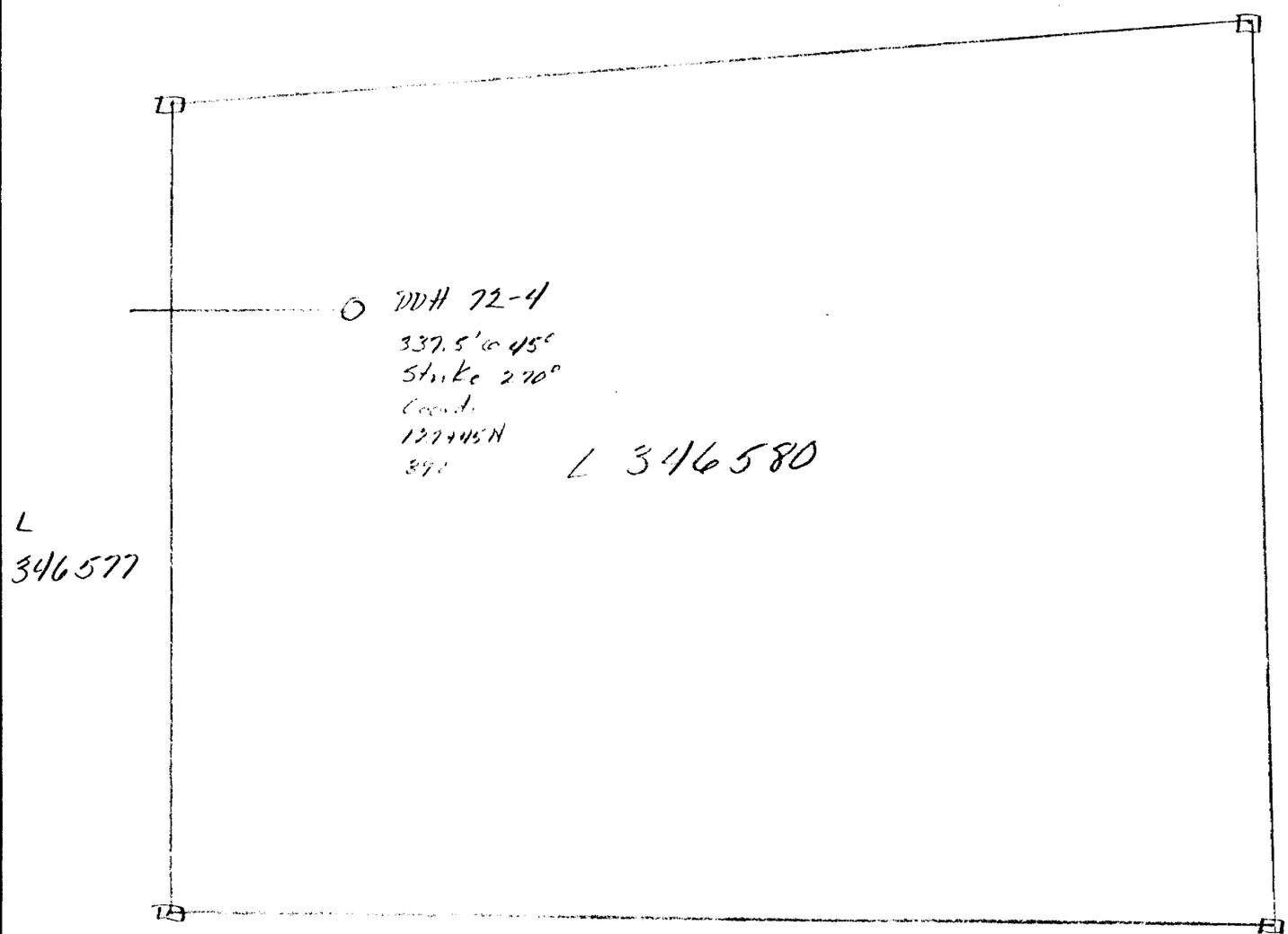
0' - 15'	Casing - rubble, sand and broken rock.
15' - 29'	Bi - Garn. Gneiss (from basalt?), very blocky and fractured, dark green (& violet or lilac colour where there is much garn.)
29' - 215'	B.I.F. Crystalline, dark grey-green, sub-metallic, cutting core from 60° to 30° angles, average about 45°, moderately or medium magnetic. Some core lifts out of box with magnet, other barely moves sideways. Very continuous, few horses of waste.
	34.0' - 34.5' Gn. as above.
	34.5' - 36.0' Lost core - ground up, sludge reported black.
215' - 312'	B.I.F., magnetic, heavily pyrrhotised, averaging about 10% po. throughout, but some sections up to 90% po. The formation is contorted and cuts the core at all angles. Coarse po. at 215' (1"), 217' (1"), 221' (3"), 226.5' (1"), and 238'-239' (12" dissem).
	260.0 - 264.5' A horse of Bi-Garn Gn. laced with po, py and mag. -- med. magnetic.
312' - 361'	Bi. Gn., cg. Bi, with some dissem. mag. and po., sl. magnetic.
339.0' - 340.5'	Some Q. strs. with a tr. of cp.
360.5' - 361.0'	More b. Q. strs.
361'	End of hole.

NOTE: This hole was drilled for urgent assessment work purposes (to cover the 18 claims in Iron City Group No. 6), as well as our first probe of the N. Webb Lake iron zone. Although assays are not available at the time of writing this note, it appears from the core and a surface mag. recce survey, that there is considerable tonnage of I.F. in this zone. Prospector Hardie reports high grade iron near the creek flowing North from Webb Lake, a mile north of here and iron has been seen 1/4 mile south of here. Two small shafts are sunk on the hill 250' East of this hole. Therefore further drilling and a mag. survey of this area are recommended. Whole core samples were cut. The balance of the AXT core is stored near the collar. This was logged by,

A. Hopkins.
A. Hopkins.

L 346581

F



L 346579

Parkman Twp.
Report # 73-51
Avon City Mines Ltd.

Scale: 1" = 200'

Grid
70-0 Extension

201 0544

LIST OF DRILL HOLES

Hole #	Length	Core Size	Hole Started	Hole Finished	Direction	
					Azimuth	Inclination
73-1	109'	AX *	Oct. 23, 1973	Oct. 27, 1973	n.a.	90°
73-2	105.5'	"	Oct. 27, 1973	Oct. 29, 1973	"	90°
73-3	102'	"	Oct. 29, 1973	Nov. 1, 1973	"	90°
73-4	108	"	Nov. 1, 1973	Nov. 4, 1973	"	90°
73-5	104	"	Nov. 4, 1973	Nov. 7, 1973	180°	30°
73-6	124	"	Nov. 7, 1973	Nov. 12, 1973	"	40°
73-7	123	"	Nov. 12, 1973	Nov. 14, 1973	"	45°
73-8	137	"	Nov. 14, 1973	Nov. 17, 1973	"	50°
73-9	150	"	Nov. 17 , 1973	Nov. 19, 1973	"	60°
73-10	150	"	Nov 19, 1973	Nov. 21, 1973	"	70°
73-11	169	"	Nov. 21, 1973	Nov. 23, 1973	"	80°
73-12	126	"	Nov. 23, 1973	Nov. 25, 1973	"	90°
	1507.5'					

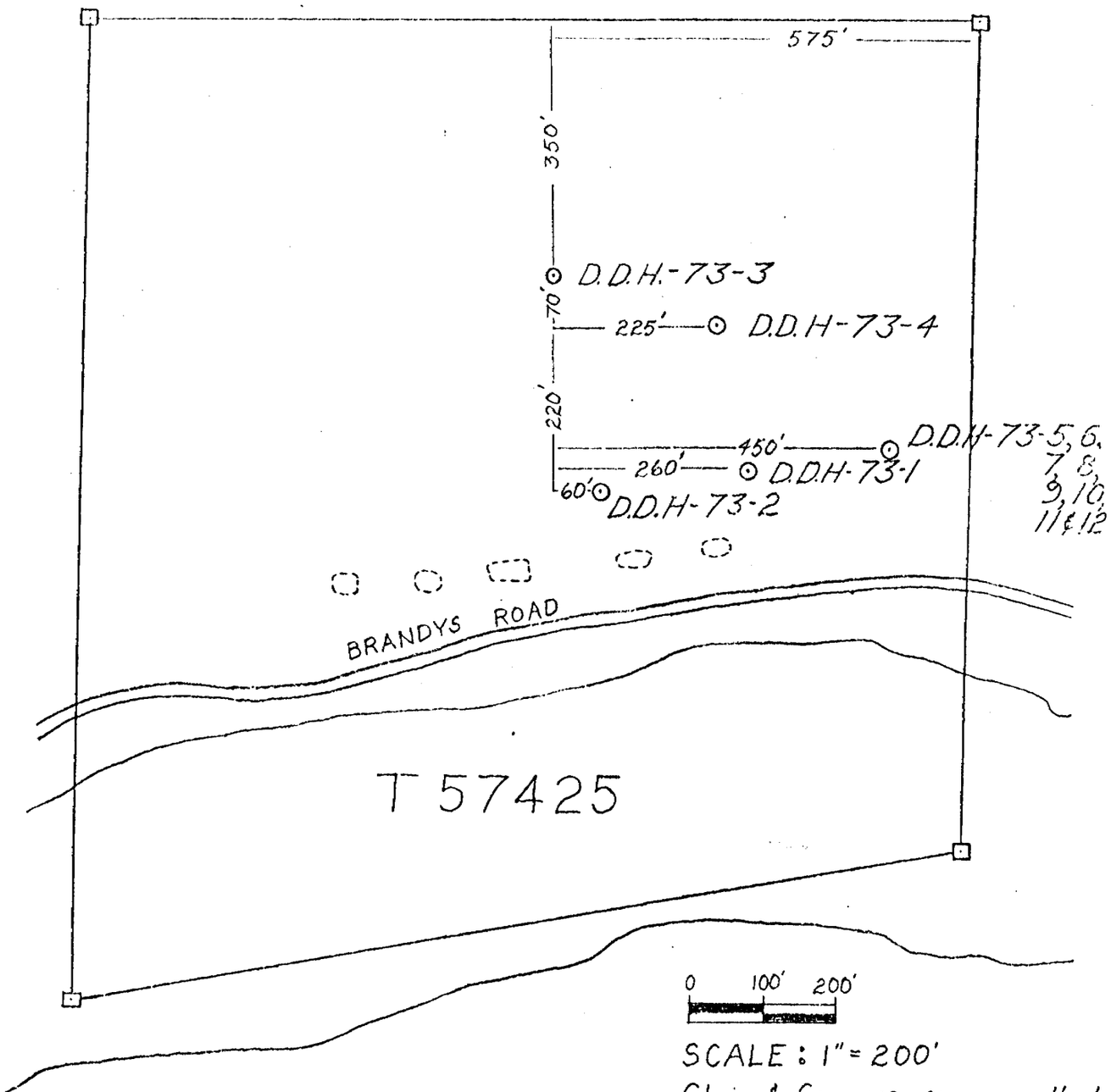
* Note - The first 14' of core in hole 73-1 from 11.5' to 25' was EX core. All of the remaining core in all holes was AX size.

201 0221

PARKMAN TWP

Claim No.	Days	Claim No.	Days	Claim No.	Days
L 104531	60	L 346581	20	T 57419	none
L 346579	20	L 346576	20	T 57418	none
L 346578	20	T 57019	none	T 57417	none
L 346577	20	T 57017	none	T 56330	none
L346580	26.1	T 57016	none	T 56327	none
		T 57413	none		
L 104532	60	T 57412	none	L 296443	40
L 104533	60	T 57411	none	L 296441	40
L 104534	60	T 57425	1	L 295011	40
L 104535	60	T 57424	none	L 295010	40
L 296459	40	T 57423	none	L 295013	40
L 296458	30	T 57420	none	L 295012	40
L 296457	10.4				

201 0210



SCALE : 1" = 200'

Chain & Compass survey methods used to locate holes by C. Mortimer

APPROX.

N

IRON CITY MINES LTD.

LOCATION PLAN OF DRILL HOLES 73-1 to 73-12

DRAFTED BY: L. R. STARZYNSKI
CHECKED BY: R.J. RUPERT,
CONSULTING GEOLOGIST
DATE: MARCH 20, 1974

THE MINING ACT – DEPARTMENT OF MINES

ONTARIO

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO.	PAGE NO
73-1	1

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
C. MORTIMER	not determined	N. A.	109	collar -90°	See attached sketch plan		T57425

DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY	LOCATION (Tp., Lot, Con. OR Lat. and Long.)
Oct. 23, 1973	Oct. 27, 1973	Mar. 17,1974	R. J. Rupert	Parkman Tp.

EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)	PROPERTY NAME
Iron City Mines Ltd.			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	HOLE SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS
			EX Core to 25' AX Core to 109'							
0	11.5	Casing								
11.5	40.2	Dolomite	M.g. white crystalline dolostone. 5 to 10% phlogopite mica. Blocky core to 25', friable zone 36.0 to 40.0'. Mica is c.g. and in elongate plates. Less than 3% pale apple-green talcose mineral.							
40.2	74.0	Dolomite	M.g. to c.g. grey mottled dolostone. 20% phlogopite, 5 to 10% pale green talcose coarse mineral grains. Speck pyrite at 45.0'				74	94	20.0'	
74.0	109.0	Dolomite	White massive to finely banded (1/8" slightly micaceous bands at 1" intervals) crystalline dolomite with less than 5% silicate minerals, CA 45°	45°			94	109	15.0'	
			E.O.H.							
			Core located at Beaver Lodge, 30 miles north of Iron Bridge, Ont. in March 1970. Recommended for discard after sampling of specimens for retention.							

THE MINING ACT – DEPARTMENT OF MINES

ONTARIO

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. 73-2 | PAGE NO. 1

DRILLING COMPANY: C. MORTIMER	COLLAR ELEVATION: not determined	BEARING OF HOLE FROM TRUE NORTH: N.A.	TOTAL FOOTAGE: 105.5	DIP OF HOLE AT: collar -90°	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM: See attached sketch plan
DATE HOLE STARTED: Oct. 27, 1973	DATE COMPLETED: Oct. 29, 1973	DATE LOGGED: Mar.17,1974	LOGGED BY: R. J. Rupert		MAP REFERENCE NO.
EXPLORATION CO. OWNER OR OPTIONEE: Iron City Mines Ltd.		DATE SUBMITTED	SUBMITTED BY (Signature)		CLAIM NO.: T57425
					LOCATION (Tp., Lot, Con. OR Lot. and Long.): Parkman Tp.
					PROPERTY NAME

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc. AX Core	PLANE OF FEATURE (BEDDING, FOLIATION, CORE SPECIMEN) ANGLE +	FOOTAGE +	HOLE SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +
0	8.0	k Casing								
8.0	36.0	Dolomite	White to very pale buff-brown dolostone. Progressive increase in proportion of phlogopite from 10% at 8.0' to about 20% at 36.0'							
36.0	45.0	Biotite - Quartz Gneiss	Grey laminated siliceous dolostone gneiss. 10% to 30% biotite and chlorite, with some f.g. to m.g. quartz. CA 40°	40°						
45.0	105.5	Biotite-Quartz-Dolomite Gneiss	Grey biotite - chlorite - quartz and dolomite gneiss. M.g. white dolomite sections from 58.0 - 62.0, 70.0 - 85.0							
			Contorted banding, average CA 30° to 45°	37°						
			E.O.H.							
			Core stored at Beaver Lodge, 30 miles north of Iron Bridge, Ont., in March 1974.							
			Recommended for discard after removal of selected specimens.							

(from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

01-032

THE MINING ACT – DEPARTMENT OF MINES

DIAMOND DRILLING LOG

ONTARIO

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. 73-3 | PAGE NO. 1

DRILLING COMPANY: C. MORTIMER	COLLAR ELEVATION: not determined	BEARING OF HOLE FROM TRUE NORTH: N.A.	TOTAL FOOTAGE: 102	DIP OF HOLE AT: collar -90°	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM: See attached sketch plan
DATE HOLE STARTED: Oct. 29, 1973	DATE COMPLETED: Nov. 1, 1973	DATE LOGGED: Mar.17,1974	LOGGED BY: R. J. Rupert	ft.	MAP REFERENCE NO.
EXPLORATION CO., OWNER OR OPTIONEE: Iron City Mines Ltd.		DATE SUBMITTED	SUBMITTED BY (Signature)	ft.	CLAIM NO.: T57425
				ft.	LOCATION (Tp., Lot, Con. OR Lat. and Long.): Parkman Tp.
				ft.	PROPERTY NAME

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc. AX Core	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE *	CORE SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +
0	13.0	Casing								
13.0	36.0	Biotite-Chlorite-Quartz-Dolomite Gneiss	Over 30% Biotite. CA variable, average 30°	30°						
36.0	67.5	Dolomite	White m.g. crystalline dolostone. 5 to 15% biotite or phlogopite. Proportion of mica decreases towards end of section CA 20°	20°						
67.5	102.0	Gneiss	As from 13.0' - 36.0' Dolostone bands from 79.0 to 81.5. Low CA E.O.H. Core recommended for disposal after selection of representative specimens.							

* Angle of foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

THE MINING ACT – DEPARTMENT OF MINES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE — HOLE NO. 73-7 — PAGE NO. 1

DRILLING COMPANY: C. MORTIMER	COLLAR ELEVATION: not determined	BEARING OF HOLE FROM TRUE NORTH: N.A.	TOTAL FOOTAGE: 108	DIP OF HOLE AT: collar -90°	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM: See attached sketch plan
DATE HOLE STARTED: Nov. 1, 1973	DATE COMPLETED: Nov. 4, 1973	DATE LOGGED: Mar. 17, 1974	LOGGED BY: R. J. Rupert		MAP REFERENCE NO.
EXPLORATION CO., OWNER OR OPTIONEE: Iron City Mines Ltd.		DATE SUBMITTED	SUBMITTED BY (Signature)		CLAIM NO.: T57425
					LOCATION (Tp., Lot, Con. OR Lat. and Long.): Parkman Tp.
					PROPERTY NAME

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION (Colour, grain size, texture, minerals, alteration, etc.) AX Core	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +
0	14.0	Casing								
14.0	25.0	Gneiss	Biotite - chlorite - quartz - epidote gneiss. M.g. to c.g., contorted. This box of core possibly mis-labelled, as the core ends do not match with the subsequent box, and are markedly different.							
25.0	50.5	Dolomite	M.g. white crystalline dolostone. less than 5% phlogopite except in the sections from 37.0 - 38.5 and 42.0 - 43.0 where more is present. Sharp lower contact. Contorted banding, CA -20° to +20°	0°						
50.5	108.5	Gneiss	As from 14.0 to 25.0. Dolomite bands from 62.0 to 69.0', 75.0 to 77.0', 107.0 to 108.5'							
			Low CA, Less than 20°	less than 20°						
			E.O.H.							
			Core recommended for disposal after selection of representative specimens.							

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

THE MINING ACT – DEPARTMENT OF MINES

DIAMOND DRILLING LOG

ONTARIO

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO.	PAGE NO.
73-5	1

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
C. MORTIMER	not determined	180°	104	collar -30°	See attached sketch plan		T57425

DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY	LOCATION (Tp., Lot, Con. OR Lat. and Long.)
Nov. 4, 1973	Nov. 7, 1973	Mar. 17, 1974	R. J. Rupert	Parkman Tp.

EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)	PROPERTY NAME
Iron City Mines Ltd.			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc. AX Core	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +
0	11.5	Casing								
11.5	15.0	Quartzite Gneiss	Grey contorted f.g. to m.g. biotite - chlorite - epidote quartzite gneiss. CA less than 30°	20°						
15.0	22.0	Dolomite	M.g. white to pinkish white crystalline dolomite. Lower contact gradational.							
22.0	27.0	Quartzite Gneiss	As from 11.5 to 15.0							
27.0	104.0	Quartzite & Dolomite	Later banded 5' to 15' sections of biotite - chlorite - quartzite and white massive dolostone with less than 15% phlogopite. Occasional fragments (bodin?) of angular quartz, @ 94.0' Section from 57 to 72 contains over 40% mafic biotite and chlorite. CA 20° to 40°	30°						
			E.O.H.							
			Core recommended for disposal after sampling of selected Specimens.							

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Work Regulations.

THE MINING ACT - DEPARTMENT OF MINES

DIAMOND DRILLING LOG

ONTARIO

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. 73-6 | PAGE NO. 1

DRILLING COMPANY: C. MORTIMER	COLLAR ELEVATION: not determined	BEARING OF HOLE FROM TRUE NORTH: 180°	TOTAL FOOTAGE: 125	DIP OF HOLE AT: collar -40°	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM: See attached sketch plan
DATE HOLE STARTED: Nov. 7, 1973	DATE COMPLETED: Nov. 12, 1973	DATE LOGGED: Mar. 17, 1974	LOGGED BY: R. J. Rupert		MAP REFERENCE NO.
EXPLORATION CO. OWNER OR OPTIONEE: Iron City Mines Ltd.		DATE SUBMITTED	SUBMITTED BY (Signature)		CLAIM NO.: T57425
					LOCATION (Tp., Lot, Con. OR Lot. and Long.): Parkman Tp.
					PROPERTY NAME

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE*	CORE SPECIMEN FOOTAGE*	CORE SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH*	ASSAYS*
0	18.5	Casing								
18.5	42.0	Dolomite	White m.g. crystalline dolomite. Blocky core. L.C. 37.0 - 38.0							
42.0	51.5	Quartzite Gneiss	Less than 5% phlogopite. Banded grey biotite - chlorite - quartz gneiss. Contorted banding from -10° to +30°	10°						
51.5	75.0	Dolomite	As from 18.5 to 42.0							
75.0	80.5	Quartzite Gneiss	As from 42.0 to 51.5							
80.5	125.0	Dolomite	White m.g. crystalline dolomite, Less than 5% phlogopite. Occasional quartz vein or inclusion. E.O.H.							

* Additional credit available. See Assessment Work Regulations

THE MINING ACT – DEPARTMENT OF MINES

DIAMOND DRILLING LOG

ONTARIO

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. 73-7 | PAGE NO. 1

DRILLING COMPANY: C. MORTIMER	COLLAR ELEVATION: not determined	BEARING OF HOLE FROM TRUE NORTH: 180°	TOTAL FOOTAGE: 123	DIP OF HOLE AT: collar -45°	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM: See attached sketch plan
DATE HOLE STARTED: Nov. 12, 1973	DATE COMPLETED: Nov. 14, 1973	DATE LOGGED: Mar.17,1974	LOGGED BY: R. J. Rupert	ft	
EXPLORATION CO., OWNER OR OPTIONEE: Iron City Mines Ltd.		DATE SUBMITTED	SUBMITTED BY (Signature)	ft	
				ft	
				ft	

MAP REFERENCE NO.

CLAIM NO.: T57425

LOCATION (Tp., Lot, Con. OR Lat. and Long.): Parkman Tp.

PROPERTY NAME

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc. AX Core	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE °	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS °
0	11.0	Casing								
11.0	117.0	Dolomite	White massive m.g. cryst alline dolostone with less than 10%							
			silicate minerals. ½" chlorite at 44.0'							
			Quartzite beds from 96.0 to 98.0' CA 40°		40°					
			108.0 to 108.5'							
117.0	123.0	Lost Core								
			E.O.H.							

THE MINING ACT – DEPARTMENT OF MINES

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. 73-8 | PAGE NO. 1

DRILLING COMPANY: C. MORTIMER	COLLAR ELEVATION: not determined	BEARING OF HOLE FROM TRUE NORTH: 180°	TOTAL FOOTAGE: 137	DIP OF HOLE AT: collar -50°	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM: See attached sketch plan
DATE HOLE STARTED: Nov. 14, 1973	DATE COMPLETED: Nov. 17, 1973	DATE LOGGED: Mar.17,1974	LOGGED BY: R. J. Rupert	°	MAP REFERENCE NO.
EXPLORATION CO., OWNER OR OPTIONEE: Iron City Mines Ltd.		DATE SUBMITTED	SUBMITTED BY (Signature)	°	CLAIM NO.: T57425
				°	LOCATION (Tp., Lot, Con. OR Lat. and Long.): Parkman Tp.
				°	PROPERTY NAME

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc. AX Core	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE *	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS *
0	14.0	Casing								
14.0	137.0	Dolomite	M.G. white crystalline dolostone with less than 5% silicate minerals (phlogopite and talc)							
			Talcose green band at 78.0'							
			½" wide bands of contorted biotite at 120' & 133'							
			Reddish alteration on joints from 43' to 48'							
			Least silicate is present at end of the section.							
			E.O.H.							

THE MINING ACT – DEPARTMENT OF MINES

ONTARIO

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. 73-9 | PAGE NO. 1

DRILLING COMPANY: C. MORTIMER	COLLAR ELEVATION: not determined	BEARING OF HOLE FROM TRUE NORTH: 180°	TOTAL FOOTAGE: 150	DIP OF HOLE AT: collar -60°	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM: See attached sketch plan
DATE HOLE STARTED: Nov. 17, 1973	DATE COMPLETED: Nov. 19, 1973	DATE LOGGED: Mar. 17, 1974	LOGGED BY: R. J. Rupert		MAP REFERENCE NO.
EXPLORATION CO., OWNER OR OPTIONEE: Iron City Mines Ltd.		DATE SUBMITTED	SUBMITTED BY (Signature)		CLAIM NO.: T57425
					LOCATION (Tp., Lot, Con. OR Lat. and Long.): Parkman Tp.
					PROPERTY NAME

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc. AX Core	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS
0	13.0	Casing								
13.0	150.0	Dolomite	M.G. white crystalline dolostone. Less than 10% silicate minerals, concentrated mainly in the section from 13' to 75' ½" biotite bands at 101' and 104'							
			CA 35° to 45°	40°						
			Blocky core with red alteration on fractures from 63.0' to 97.0'							
			L. C. 28.0 – 28.5 47.5 – 49.0 82.0 – 83.0 88.0 – 89.0							
			E.O.H.							

THE MINING ACT – DEPARTMENT OF MINES

DIAMOND DRILLING LOG

ONTARIO

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. 73-10 | PAGE NO. 1

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
C. MORTIMER	not determined	180°	150'	collar -70°	See attached sketch plan.		T57425

DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY	LOCATION (Tp., Lot, Con. OR Lat. and Long.)
Nov. 19, 1973	Nov. 21, 1973	Mar. 17, 1974	R. J. Rupert	Parkman Tp.

EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)	PROPERTY NAME
Iron City Mines Ltd.			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE +	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +
0	18.0	Casing								
18.0	150.0	Dolomite	M.G. white crystalline dolostone. less than 5% silicate minerals. Red alteration on fractures from 45.0 to 65.0 and from 94.0 to 95.0, CA 45° @ 50.0'	45°						
			L.C. 94.5 – 95.0 74.0 – 75.0							
			E. O. H.							

+ Additional credit available. See Assessment Work Regulations.

THE MINING ACT – DEPARTMENT OF MINES

ONTARIO

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. 73-11 | PAGE NO 1

DRILLING COMPANY	COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
C. MORTIMER	not determined	180°	169	collar -80°	See attached sketch plan.		T57425

DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY	LOCATION (Tp., Lot, Con. OR Lat. and Long.)
Nov. 21, 1973	Nov. 23, 1973	Mar.17,1974	R. J. Rupert	Parkman Tp.

EXPLORATION CO., OWNER OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)	PROPERTY NAME
Iron City Mines Ltd.			

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc. AX Core	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE *	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +
0	10.0	Casing					10	30	20.0	
							30	50	20.0	
10.0	169.0	Dolomite	M.G. crystalline white dolostone.				50	70	20.0	
							90	111	21.0	
			Talcose from 165 - 169, with a few 2" quartzite bands.				111	114	3.0	
							114	134	20.0	
			Reddish alteration on joints at 52', 62', 85' to 105'				134	154	20.0	
							154	169	15.0	
			L.C. 26.0 - 27.0							
			29.0 - 30.0							
			92.5 - 94.0							
			113.5 - 114.0							
			111 - 114.0' - Laminar banded quartzitic dolostone.							
			CA 35° to 55°, Avg. 45° to 50°	47°						
			E. O. H.							
			Entire core to be sent for assay. Refer to hole 73-12 core for							
			future reference.							

* Measured to the long axis of the core

+ Additional credit available. See Assessment Work Regulations.

THE MINING ACT – DEPARTMENT OF MINES
ONTARIO

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE ▶ HOLE NO. 73-12 | PAGE NO. 1

DRILLING COMPANY: C. MORTIMER	COLLAR ELEVATION: not determined	BEARING OF HOLE FROM TRUE NORTH: N.A.	TOTAL FOOTAGE: 126	DIP OF HOLE AT: collar -90°	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM: See attached sketch plan.
DATE HOLE STARTED: Nov. 23, 1973	DATE COMPLETED: Nov. 25, 1973	DATE LOGGED: Mar. 17, 1974	LOGGED BY: R. J. Rupert		MAP REFERENCE NO.
EXPLORATION CO., OWNER OR OPTIONEE: Iron City Mines Ltd.		DATE SUBMITTED	SUBMITTED BY (Signature)		CLAIM NO.: T57425
					LOCATION (Tp., Lot, Con. OR Lat. and Long.): Parkman Tp.
					PROPERTY NAME

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc. AX Core	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM	SAMPLE FOOTAGE TO	SAMPLE LENGTH	ASSAYS +
0	15.0	Casing								
15.0	126.0	Dolomite	White crystalline m.g. dolomite. ½" biotite							
			bands at 83.0' and 99.0' Reddish alteration on fractures							
			from 70' to 103'							
			L.C. 22.0 – 22.5							
			35.0 – 36.0							
			50.0 – 50.5							
			74.5 – 75.0							
			80.0 – 81.5							
			84.0 – 84.5							
			92.0 – 92.5							
			100.0 – 100.5							
			101.5 – 102.0							
			119' – 124' Laminar banded ~~biotite rich~~ felsite-rich quartzitic dolomite.							
			CA 35°	35°						
			E.O.H.							

+ Additional credit available. See Assessment Work Regulations.

Coordinates of Collar: 127+45N, 39E. COMPANY IRON CITY MINES LTD. Claim No. L.346580 & 346577 D.D.H. # 72-4

Dip -45 Strike 270 PROPERTY N. Webb Lake, Parkman Twp. Hole started 20 Nov. & finished 25 Nov. '72.

Sample No.	Mr/ Hr	Dist. from ft	Formation	Width ft.	Assay Value	Fe %	%	Oz.	Oz.	Remarks
										Note: This hole (EXT-size core) was drilled to cut the W. ½
										of magnetic Anomaly "A".
		0.0	No core	26.0						Casing.
		26.0	Magmat. setreg'n	40.0						Dull-grey, vfg ig. rock, with varying degrees of magnetism, as
72-4-1	@	48.5	ODM. spec.magn.	0.2						in D.D.H.#72-3, & is slightly graphitic. It contains rare
72-4-2	@	62.8	" " "	0.2						narrow strs. of Po. e.g. @ 64.9'.
		66.0	Biotite Gneiss	1.5						Orgn., incl. pegmas. or granitic rocks, dark grey-pink.
		67.5	Chloritic zone	o.6						Olive-green chloritic material, soft.
		68.1	Basalt porphyry	6.9						Alt. dark purple porphyry (phy).(Plagioclase phenocrysts in
										lava, med. gr., gneissic, at start, becoming coarser-grained.
		75.0	Magmat.segregn	105.0						As above, at first non-magn., then wide magn. zones.
		76.4	magn. magmat.seg.	103.6						As above. Light grey-green, sil.
72-4-3	@	82.0	Odm. magn. spec.	0.2						
			No core	1.0						Slightly magn. black mud or sludge. 83.0'-84.0'
72-4-4	@	105.1	ODM. magn. spec.	0.2						
72-4-5	@	147.8	" " "	0.2						
	@	162.4	2" massive Po	0.2						
72.4.6	@	172.7	ODM. magn. spec.	0.2						
	@	180.0	1" massive Po.	0.1						
		180.0	Graphite Schist	4.0						

(concluded on page 2)

Coordinates of Collar: COMPANY IRON CITY MINES LTD. Claim No. D.D.H. # 72-4

Dip Strike PROPERTY N. Webb L., Parkman Tp.

Sample No.	Mr/ Hr	Dist. from ft	Formation	Width ft.	Assay Value	%	%	Oz.	Oz.		Remarks
		184.0	Amygdaloidal Lava	3.5					Dark-purple-grey amygdaloidal basalt.		
		187.5	Orthogn.	1.6					Pink-grey as above, hi in Bi.		
		189.1	Magmat. segreg'n	40.8					As above, dull-grey colour, mainly magnetic.		
72-4-7	@	189.9	ODM. magn. spec.	0.2							
		210.0	Magmatic seg.Gn.	7.6					Slitely magn., espec. where speckled with Po, as at 220.1'.		
72-4-8		217.6	sl.magn.Po.ODM.	0.2							
		232.0	Magn. mag. seg.	3.4							
		235.4	Black mud						Graphitic magnetic sludge.		
		239.8	Magmat.segreg'n						Only occas. magn., espec. with the occas. Po., e.g. @ 291.5',		
72-4-9	@	231.0	ODM. spec.						293.5', & 309.5' There is some Po thru'out, maybe nickelliferou		
			Massive Po	0.4				Magn from 252.3-252.7. Trace Cp, e.g.@ 329.9			
72-4-10	@	252.3	ODM. magn. Po.	0.2							
			Much Po, magn.	0.4							267.3-267.7'.
72.4.11	@	267.6	ODM.Po, magn.	0.2							
72.4.12	@	293.5	ODM.massiv Po.	0.2							Magnetic.
		312.5	Mass.& dissem Po	17.4				Sl. magn., Tr. Cu, should be tested somewhere for nickel.			
		329.9	Orthogn.	7.6				Q-Mu-Bi orthogn."Salt & Pepper" grey colour.			
72-4-13	@	328.5	Sl.magn.mass.Po	0.2				Note:- THe EXT core for this hole is stored at the Iron City Mines			
		337.5	End of Hole.					warehouse at 555 Burnhamthorpe Rd., ETOBICOKE, Ont.			

The core was logged by A. Hopkins. A. Hopkins,

DIAMOND DRILL RECORD, HOLE NO. I.C. 69-1

PROPERTY IRON CITY MINES LTD. - GREEN LAKE, Parkman tp., Timisk., NE. Ont.

SHEET NUMBER 1 | SECTION FROM [illegible] TO [illegible] | STARTED [illegible] Nov. 1969.

LATITUDE 10,000' N. | DATUM [illegible] | COMPLETED [illegible] Nov. 1969.

DEPARTURE 5,200' E. | BEARING 90° | ULTIMATE DEPTH 102'

ELEVATION Collar is 5' above Green L. | DIP -45° | PROPOSED DEPTH 101'

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	VALUES GOLD AT	AT	AT	AT
0'- 4.5'	Casing.								
4.5'- 70.0'	MUSCOVITE-BIOTITE GRANITE GNEISS, grey,	69-1-1	24.4'		3"				
except for:-	massive, slitely schistose in places.	69-1-2	46.4'		3"				
10.5'-10.7'	2" white Qtz. with traces of Py.								
at 12.0'	½" " "								
at 12.5'	1" " "								
21.3'- 21.9'	Reddish & rusty, with 10% M. & 1% Py.								
23.9'- 24.0'	A 2" dykelet of red pegmatitic granite.								
41.8'-42.5'	Lost core.								
at 46.9'	1" of Qtz.								
47/2'- 48.0'	Lost core								
51.1'- 51.7'	" "								
52.5'- 53.0'	" "								
66.0'- 66.5'	Pegmatitic granite.								

NORTHERN MINER FORM 505

DRILLED BY Chas. Mortimer of RR.#2, Kilworthy, Ontario. SIGNED Albert Hopkins B.A.Sc. Geologist.

CONTINUED OVERLEAF.

8820 107

End page 2

		Specimen #	from	Width
70.0'- 75.0'	GRANITE GNEISS, alt. to Muscovite Schist.	69-1-3	73.4'	3"
74.3'- 74.5'	Lost core.			
75.0'-101.0' except for:-	MUSCOVITE-BIOTITE SCHIST.	69-1-4	96.3'	3"
77.9'- 78.4'	Lost core.			
82.5'- 82.9'	" "			
83.0'-83.3'	" "			
101.0'	End of hole.			

Note:-
The core is stored in small wooden boxes (2½ ft. long) in the basement storeroom of Iron City Mines Ltd., 555 Burnhamthorpe Rd., MISSISSAUGA, Ontario.

Toronto, Ont., 20 Dec. 1969 Albert Hopkins B.Sc.
Geologist.

GEOLOGICAL ASSOCIATION OF CANADA
Albert Hopkins
FELLOW

1960 108

(X8)

Scale: 1" = 200'

PARKMAN TP.

Assessment Work
Plugging Drilling & Blasting
and D. Drilling, Nov. 1967
by Chas. Mortimer & L. R. Hogan
RR#2, Kilworthy, Ont.

N.

L. 60N

picket line

mining claim #
T. 57272

L. 56N.

picket line

Collar DDH #1C.69-1
101' @ -45°
Str. 90°

First Rock Trench
14' x 7' x 2' deep.
co-ords. 100E. 52N.

L. 52N.

second picket line
Rock trench 45' long, 12' wide 8' deep

mainland

Green

T. 57271

L. 48N.

picket line

Lake

outlet beaver dam

mainland

#234/69 Parkman Twp
Iron City Mines Ltd

2010398

1C 69-1

ME&EC-1

DIAMOND DRILL HOLE RECORD — IRON CITY MINES LIMITED

Started November 15 , 1970 Purpose To explore iron concentration Hole No. 70-1

Completed June 10 , 1971 Depth 125 feet Feet Sheet No. 1

Township Parkman Claim 57414 Group Landerslager Zone

Lat. See Sketch Dep. Also Az. 170 degrees El. 9000 Dips -Collar 0

FOOTAGE From	FOOTAGE To	Description	Sample No.	Width Feet	Accum. Width	% Cu.	Ozs. Au.	Ozs. Ag.	ACCUMULATIVE EXTENSION Cu. x W.	Au. x W.	Ag. x W.	x W.
0.0	25.0	Casing										
25.0	34.5	Mica-quartz Schist - biotite and muscovite										
		Foliation 45-50 degrees to core with noted concentrations of quartz at 25.2' -.4' ; at 28.1' -.2' ; at 29.6' -.3' ; at 31.4' -.4' ; at 32.6' -.6'										
34.5	58.0	Mica Schist - mainly biotite										
		46.5-48.0 ft to up to 7 % pyrrhotite and minor pyrite										
48.0	48.3	lost core										
48.0	58.0	increased hornblende content 3-5 % pyrrhotite										
58.0	66.0	Garnet-mica Gneiss - biotite , some muscovite										
		abundant garnet porphyroblasts - sheared and										
66.0	125.5	Hornblende-mica Schist - mica or biotite										
		scattered pyrrhotite and minor pyrite mineralization - barren zones										
71.0	94.5	minor sulphides noted										
94.5	95.5	inclusion of garnet-mica gneiss										
95.5	113.0	gradual increase in sulphidization										
113.0	115.0	massive rock only mildly sheared										
	125.5	End of Hole										

NOTE: Core delivered to this office by Arthur L. Landerslager , Jr. of 176 Lorraine Dr Kenmore N.Y. 14223 for logging and recording .

REGISTERED PROFESSIONAL ENGINEER B.W.J. CHECHAK PROVINCE OF ONTARIO

Drilled By C. Mortimer
555 Barnbrathorpe Rd.
Thicke , Ontario

Logged By B. W. Checkak , B.Sc , P.Eng.
P.S.M.I.C. (Geology)

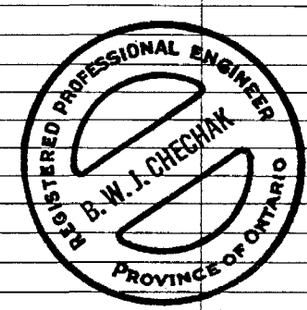
B. W. Checkak

ME&EC-2

DIAMOND DRILL HOLE RECORD — [illegible]

Hole No. 20-1
Sheet No. 2

FOOTAGE From	FOOTAGE To	Description	Sample No.	Width Feet	Accum. Width	% Cu.	Ozs. Au.	Ozs. Ag.		ACCUMULATIVE EXTENSION Cu. x W.	Au. x W.	Ag. x W.	x W.
		Mill Creek											
105.5	117.5	[illegible]											
117.0	117.0	[illegible]											
117.0	171.0	Camp 1 - pig facies											
171.0	211.0	Hornblende - mic schist											
193.0	196.0	[illegible]											
199.0	211.0	[illegible]											
211.0	225.0	Camp 1 - pig facies											
265.0	271.0	[illegible]											
271.0	324.0	Hornblende - mica facies											
		End of hole											



B W J Chechak

ME&EC-1

DIAMOND DRILL HOLE RECORD — [illegible]

Started October 2, 1971 | Purpose [illegible] | Hole No. 71-1

Completed October 14, 1971 | Depth 214.5 Feet | Sheet No. 1

Township Fairlie | Claim S- 57414 | Group [illegible] | Zone

Lat. | Dep. | Az. 90 degrees | El. 9000 [illegible] | Dips -Collar -45 degrees

FOOTAGE From	FOOTAGE To	Description	Sample No.	Width Feet	Accum. Width	% Cu.	Ozs. Au.	Ozs. Ag.		ACCUMULATIVE EXTENSION Cu. x W.	Au. x W.	Ag. x W.	x W.
0.0	14.0	Casing											
14.0	16.0	quartz-mica schist (ice - quartz chist) [illegible] ; - 16.5 , 1/2" vein of pyrrhotite 75 degrees to core											
16.0	17.3	Garnet-mica Gneiss											
17.3	75.8	quartz-mica schist less than 4 % pyrrhotite throughout , considerable sec 21.0-22.0 .											
75.8	44.4	Garnet-mica Gneiss contacts 60 degrees to core											
44.4	131.0	quartz-mica schist 5-7% pyrrhotite mineralization throughout											
68.0	75.0	bands of pegmatite 70 degrees to core -perhaps less than 5 %											
76.0	88.0	as above											
88.0	131.0	light to sparse pyrrhotite mineralization . linetion 70 degrees to core .											
131.0	145.5	Garnet-mica Gneiss contacts 70 degrees to core - typical mineral assemblage .											
145.5	154.3	Quartz-mica Schist minor pyrrhotite and some magnetite - sec 150.5 to 154.3											
154.3	214.5	Garnet-mica ~~Schist~~ Gneiss scattered quartz veins , which to ilky generally 60 degrees to core											
158.0	162.5	lost core @ 170.0-3" quartz vein 60 degrees to core .											
	214.5	End of Hole											

REGISTERED PROFESSIONAL ENGINEER B. W. J. CHECHAK PROVINCE OF ONTARIO

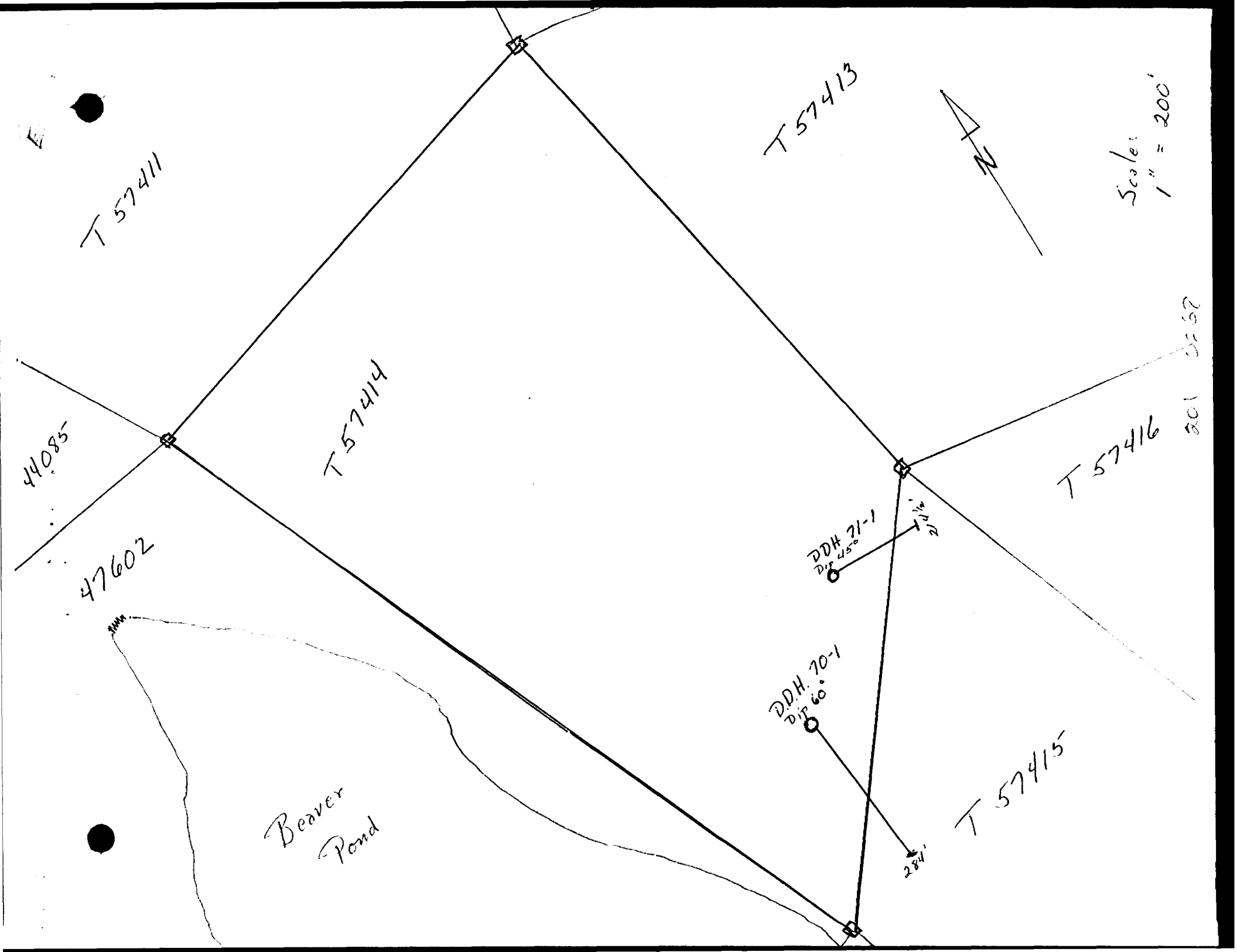
Drilled By Charles Mortimer
R.R. # 2 , Millworthy , Ontario

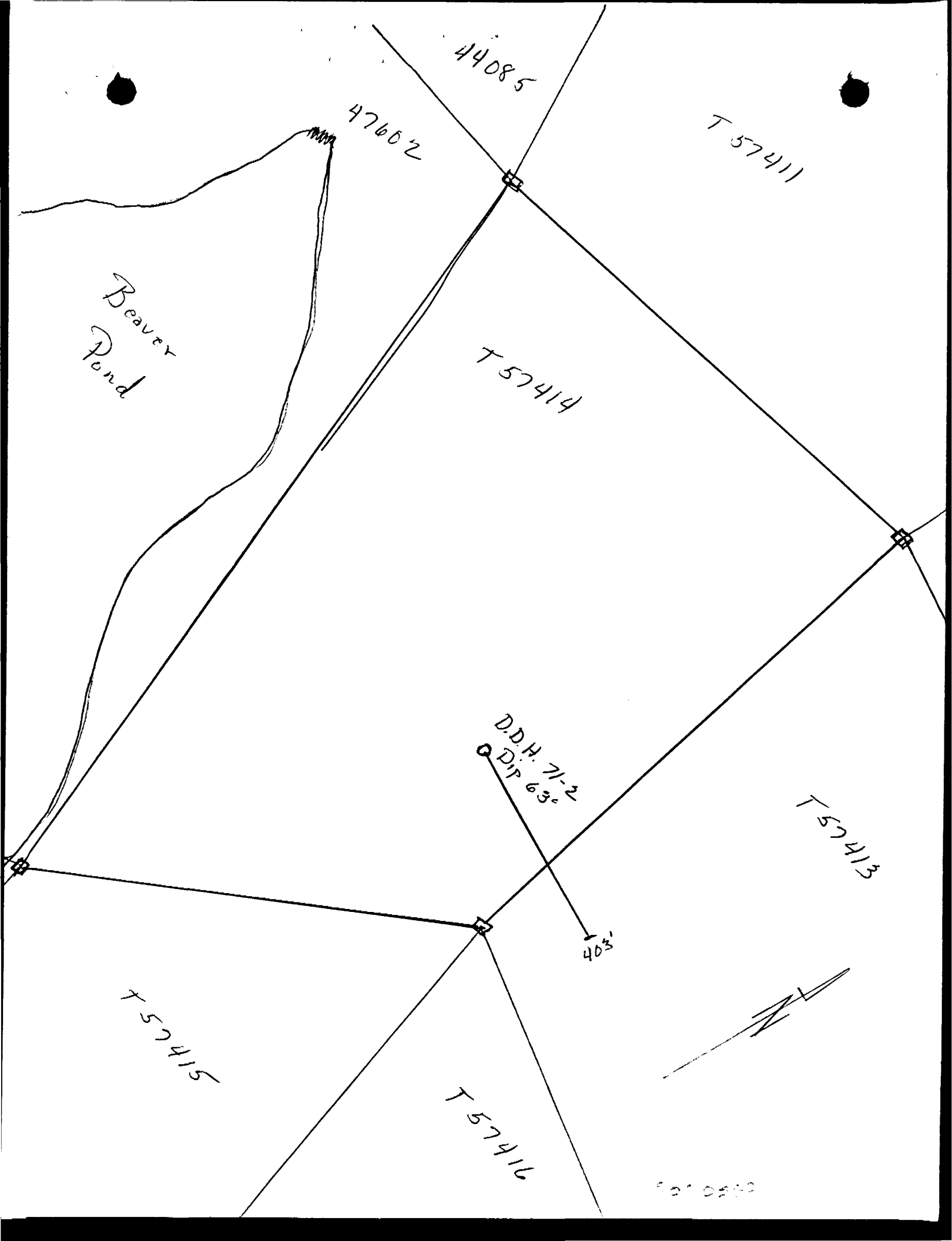
Logged By B. W. Chechak , B.Sc. , P. [illegible]
[illegible]

B. W. Chechak

1971 0028

E 58 D07


T 57411
T 57413
T 57414
T 57416
T 57415
44085
47602
N
Scale:
1" = 200'
DDH 71-1
Dip 45°
214'
DDH. 70-1
Dip 60°
284'
Beaver
Pond


44085
47602
T 57411
Beaver
Pond
T 57414
D.D.H. 71-2
Dip 63°
403'
T 57413
T 57415
T 57416

ME&EC-1

DIAMOND DRILL HOLE RECORD

Started [illegible] Purpose [illegible] Hole No: 22-2

Completed [illegible] Depth [illegible] Feet Sheet No. 1

Township [illegible] Claim [illegible] Group [illegible] Zone [illegible]

Lat. [illegible] Dep. [illegible] Az. [illegible] El. [illegible] Dips -Collar [illegible]

FOOTAGE From	FOOTAGE To	Description	Sample No.	Width Feet	Accum. Width	% Cu.	Ozs. Au.	Ozs. Ag.	ACCUMULATIVE EXTENSION Cu. x W.	Au. x W.	Ag. x W.	x W.
•	[illegible]	[illegible]										
[illegible]	[illegible]	[illegible]										
[illegible]	[illegible]	[illegible]										
		[illegible]										
		[illegible]										
		[illegible]										
[illegible]	54.5	[illegible]										
		[illegible]										
[illegible]	60.0	[illegible]										
60.0	[illegible]	[illegible]										
[illegible]	[illegible]	[illegible]										
[illegible]	91.5	[illegible]										
91.5	114.0	[illegible]										
		[illegible]										
[illegible]	94.5	[illegible]										
[illegible]	[illegible]	[illegible]										
[illegible]	[illegible]	[illegible]										
[illegible]	[illegible]	[illegible]										
95.0	112.0	[illegible]										
		[illegible]										
114.0	125.0	[illegible]										
125.0	127.0	[illegible]										
[illegible]	149.0	[illegible]										
		[illegible]										
149.0	[illegible]	[illegible]										
		[illegible]										
157.5	159.0	[illegible]										
		[illegible]										

Drilled By [illegible]

Logged By [illegible]

ME&EC-2

DIAMOND DRILL HOLE RECORD —

Hole No. 71-2
Sheet No. 2

FOOTAGE From	FOOTAGE To	Description	Sample No.	Width Feet	Accum. Width	% Cu.	Ozs. Au.	Ozs. Ag.	ACCUMULATIVE EXTENSION Cu. x W.	Au. x W.	Ag. x W.	x W.
160.5	164.0	quartz- [illegible]										
		[illegible]										
		[illegible]										
164.0	177.0	Garnet - mica Gneiss										
		[illegible]										
170.	170.4	massive magnetite										
171.2	172.7	[illegible]										
177.0	191.5	quartz- [illegible] schist										
		[illegible]										
		[illegible]										
192.5	197.0	[illegible]										
197.5	217.5	Hornblende -mica schist										
		[illegible]										
197.0	198.5	lost core										
198.0	202.0	lost core										
211.0	212.5	lost core										
215.5	216.0	lost core										
		@ 214.0- 1" quartz 60 de [illegible]										
217.5	239.0	quartz-mica schist										
		minor magnetite [illegible]										
239.0	249.0	Garnet-mica (schist) Gneiss										
		[illegible]										
239.0	257.0	quartz-mica schist										
		minor magnetite throughout										
245.5	247.0	faulted 10 degrees to core - light chloritic [illegible]										
257.0	260.5	Garnet-mica Gneiss										
		small garnet up to 1/8 " in diameter										
260.5	280.5	quartz-mica Schist										
260.5	261.2	7 % magnetite										
261.2	267.0	lost core										
267.0	280.5	banded iron 15 % , [illegible]										
267.0	267.5	massive magnetite										
280.5	283.4	Garnet -mica Gneiss										
283.4	296.4	quartz-mica schist										
		15 % magnetite to 295.0 [illegible]										
296.4	302.7	Garnet-mica Gneiss										

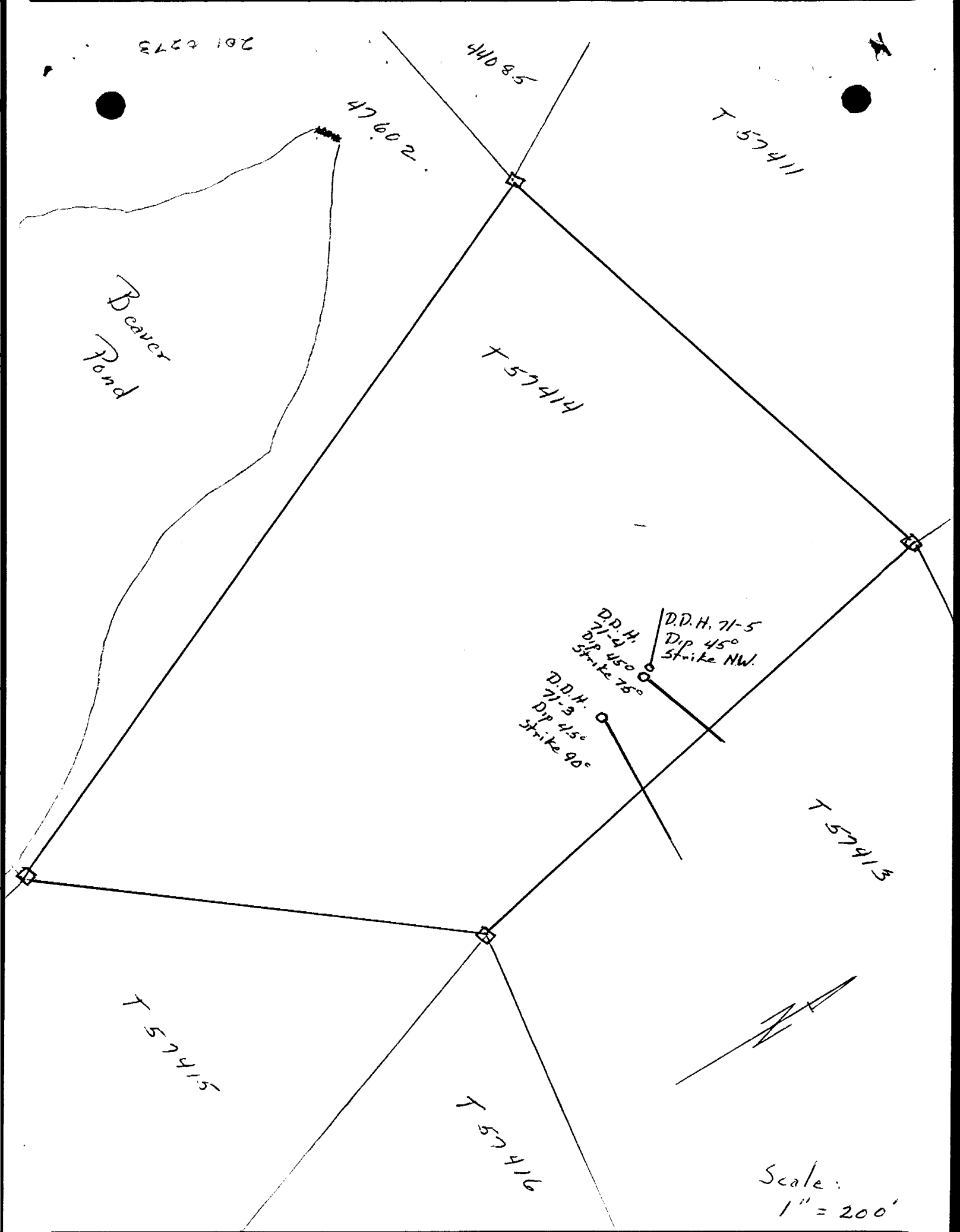
ME&EC-2

DIAMOND DRILL HOLE RECORD — [illegible]

Hole No. [illegible]1-2
Sheet No. 3

FOOTAGE From	FOOTAGE To	Description	Sample No.	Width Feet	Accum. Width	% Cu.	Ozs. Au.	Ozs. Ag.		ACCUMULATIVE EXTENSION Cu. x W.	Au. x W.	Ag. x W.	x W.
[illegible].7	[illegible].5	quartz-mica schist											
[illegible].	04[illegible].	lost core											
[illegible]2.5	[illegible].5	[illegible] schist											
		[illegible]											
[illegible].5	[illegible].2	quartz-mica schist											
		[illegible]											
		[illegible] core - [illegible]; sections [illegible]											
[illegible].2	[illegible].5	lost core											
[illegible].5	249.0	lost core											
[illegible].	[illegible].0	[illegible]											
		contains [illegible] locally - [illegible] core [illegible]											
X[illegible]													
[illegible]7.0	[illegible]5.5	[illegible] schist											
[illegible]2.0	[illegible]5.0	lost core											
[illegible]5.5	40[illegible].0	[illegible] limestone											
[illegible].5	[illegible]9.0	lost core											
[illegible]9.2	[illegible]0.5	lost core											
	403.0	[illegible]											
		[illegible]: All core delivered to this office by Mr. A. [illegible] for logging - also hole [illegible]71-[illegible] .											

REGISTERED PROFESSIONAL ENGINEER
B. W. J. CHECHAK
PROVINCE OF ONTARIO


47602
T 57411
T 57414
Beaver Pond
D.D.H. 71-5
Dip 45°
Strike NW.
D.D.H. 71-4
Dip 45°
Strike 75°
D.D.H. 71-3
Dip 45°
Strike 90°
T 57413
T 57415
T 57416
Scale:
1" = 200'

ME&EC-1

DIAMOND DRILL HOLE RECORD — IRON CITY MINES LIMITED

Started October 26th , 1971 | Purpose To explore iron ore zone | Hole No. 71-3

Completed November 2nd , 1971 | Depth 305.0 Feet | Sheet No. 1

Township Parkman | Claim T- 57414 | Group Laudenslager | Zone

Lat. See Plan | Dep. also | Az. 90 degrees | El. 9000 P&M | Dips -Collar -45 degrees

FOOTAGE From	FOOTAGE To	Description	Sample No.	Width Feet	Accum. Width	% Cu.	Ozs. Au.	Ozs. Ag.	ACCUMULATIVE EXTENSION Cu. x W.	Au. x W.	Ag. x W.	x W.
0.0	8.0	Casing										
8.0	231.5	Quartz-mica schist										
		generally up to 5 % pyrrhotite and some magnetite , lineation 60 degrees to core .										
		@ 17.0 fault 10 degrees to core										
8.0	9.4	lost core										
27.0	50.0	scattered magnetite stringers up to 1/16 inch -40 degrees to core										
50.0	70.0	recrystallized " amphibolitic " up tp 10 % magnetite and some pyrrhotite throughout										
61.5	70.0	quartz 60 degrees to core										
70.0	92.5	small garnets noted 5-7% magnetite and minor pyrrhotite .										
105.0	105.5	garnetiferous nodule										
105.5	231.5	up to 5-6 % pyrrhotie throughout										
125.0	137.0	somewhat increased magnetite dissemination 40 degrees to core .										
167.0	175.0	scattered magnetite stringers up to 1/8 inch wide 50 degrees to core .										
179.0	185.0	as above										
196.0	196.1											
	196.1	stringer of massive magnetite 30 degrees to core .										
200.0	214.0	as 167.0-175.0										
214.0	223.0	small garnets noted										
231.5	235.5	Garnet -mica gneiss										
		lineation 45 degrees to core										
235.5	241.0	Quartz-mica schist										
236.5	241.0	Massive Magnetite										
241.0	257.0	Garnet-mica gneiss										
		generally small crystals of garnet , inclusions of quartz mica shhist										
247.5	248.7	mica schist										
257.0	261.0	Biotite sbhist										
261.0	265.0	Quartz -mica schist										
		@ 257.5- 2 inch quartz vein 30 degrees to core .										
262.5	263.5	biotite schist inclusion										

REGISTERED PROFESSIONAL ENGINEER B.W.J. CHECHAK PROVINCE OF ONTARIO

Drilled By Charles Mortimer , R.R. # 2 , Killworthy , Ontario

Logged By B.W. Chechak, B.Sc. , P. Eng.
CONSULTING GEOLOGIST

B. W. Chechak

ME&EC-2

DIAMOND DRILL HOLE RECORD — IRON CITY MINES LIMITED

Hole No. 71-3
Sheet No. 2

FOOTAGE From	FOOTAGE To	Description	Sample No.	Width Feet	Accum. Width	% Cu.	Ozs. Au.	Ozs. Ag.	ACCUMULATIVE EXTENSION Cu. x W.	Au. x W.	Ag. x W.	x W.
265.0	279.5	Mica Schist										
		mainly biotite - some bands of the above										
271.0	275.0	much hornblende										
275.0	279.5	lost core										
279.5	285.0	Quartz-mica schist										
280.5	283.5	lost core										
285.0	302.5	Hornblende biotite schist										
		heavily metamorphosed - some magnetite										
294.5	302.5	high content of carbonaceous material may be a phase of recrystallized limestone - check for correlation with previous intersection in prior hole .										
302.5	305.0	Quartz-mica schist										
		minor amounts of mica										
	305.0	End of Hole										
		NOTE : Core delivered to this office for logging by Arthur Laudenslager .										

REGISTERED PROFESSIONAL ENGINEER
B. W. J. CHECHAK
PROVINCE OF ONTARIO

B. W. J. Chechak

2.20 102

ME&EC-1

DIAMOND DRILL HOLE RECORD — IRON CITY MINES LIMITED

Started November 3 , 1971 Purpose To explore iron ore and sulphide zone Hole No. 71 - 4

Completed November 7th , 1971 Depth 175 Feet Sheet No. 1

Township Parkman Claim T- 57414 Group Laudenslager Zone

Lat. See Plan Dep. also Az. 175 degrees El. 9000 p& m Dips -Collar -45 degrees

FOOTAGE From	FOOTAGE To	Description	Sample No.	Width Feet	Accum. Width	% Cu.	Ozs. Au.	Ozs. Ag.	ACCUMULATIVE EXTENSION Cu. x W.	Au. x W.	Ag. x W.	x W.
0.0	12.5	Casing										
12.5	175.0	Quartz-mica schist										
12.5	32.4	40 % pyrrhotite , lineation 40 degrees to core										
		@ 23.0 3 inch vein of massive pyrrhotite 40 degrees to core .										
32.4	42.0	10 % magnetite as dissemination										
42.0	46.5	40 % pyrrhotite										
46.5	47.5	minor pyrrhotite										
47.5	59.5	massive pyrrhotite - test for nickel etc.										
59.5	61.5	30 % pyrrhotite - lineation 45 degrees to core										
63.0	70.0	50 % pyrrhotite										
94.0	95.0	faulted 10 degrees to core										
110.0	119.3	recrystallized " amphibolitic "										
119.3	156.0	7 % pyrrhotite and some pyrite										
		@ 129.0- 1/2 inch vein of pyrrhotite										
156.0	175.0	scattered stringers up to 1/8 inch wide of magnetite 30 degrees to core - 7 %										
	175.0	End of Hole										

NOTE: Core delivered to this office for logging by A. Laudenslager .

REGISTERED PROFESSIONAL ENGINEER B.W.J. CHECHAK PROVINCE OF ONTARIO

Drilled By Charles Mortimer , R.R. # 2
Killworthy , Ontario

Logged By
B.W. Chechak , B.Sc. , P. Eng.
CONSULTING GEOLOGIST

B. W. Chechak

ME&EC-1

DIAMOND DRILL HOLE RECORD — IRON CITY MINES LIMITED

Started November 8th , 1971 | Purpose To explore iron ore and sulphide zone | Hole No. 71- 5

Completed November 12 th , 1971 | Depth 122.5 feet Feet | Sheet No. 1

Township Parkman | Claim T-57414 | Group Laudenslager | Zone

Lat. See pan | Dep. also | Az. 315 degrees | El. 9000 p&m | Dips -Collar -45 degrees

315 "

FOOTAGE From	FOOTAGE To	Description	Sample No.	Width Feet	Accum. Width	% Cu.	Ozs. Au.	Ozs. Ag.	ACCUMULATIVE EXTENSION Cu. x W.	Au. x W.	Ag. x W.	x W.
0.0	15.0	Casing										
15.0	104.5	Quartz-mica schist										
15.0	17.5	5 % pyrrhotite , lineation 40 degrees to core , brown gray										
17.5	57.0	55-60% pyrrhotite , minor pyrite - test for nickel & associated minerals										
36.5	37.5	faulted 10 degrees to core some chlorite along										
41.0	42.0	included quartz and some pyrite contacts 25 degrees to core .										
51.5	51.8	fault 10 degrees to core										
54.5	57.0	lost core										
57.0	60.0	50-55 % pyrrhotite										
60.0	69.5	recrystallized " amphibolitic " 7 % disseminated magnetite										
60.0	60.5	faulted 10 degrees to core										
65.0	66.4	lost core										
66.4	67.5	similar to 60.0-69.5										
67.5	69.5	lost core										
69.5	75.0	7-10 % magnetite as disseminations - some pyrrhotite										
75.0	86.0	some magnetite - mainly pyrrhotite up to 5 %										
86.0	104.5	70 % pyrrhotite , some chlorite lineation 25 to 30 degrees to core .-Test for nickel etc.										
104.5	122.5	Hornblende mica schist										
		5 % pyrrhotite ans up to 6 % magnetite as disseminations										
	122.5	End of hole										

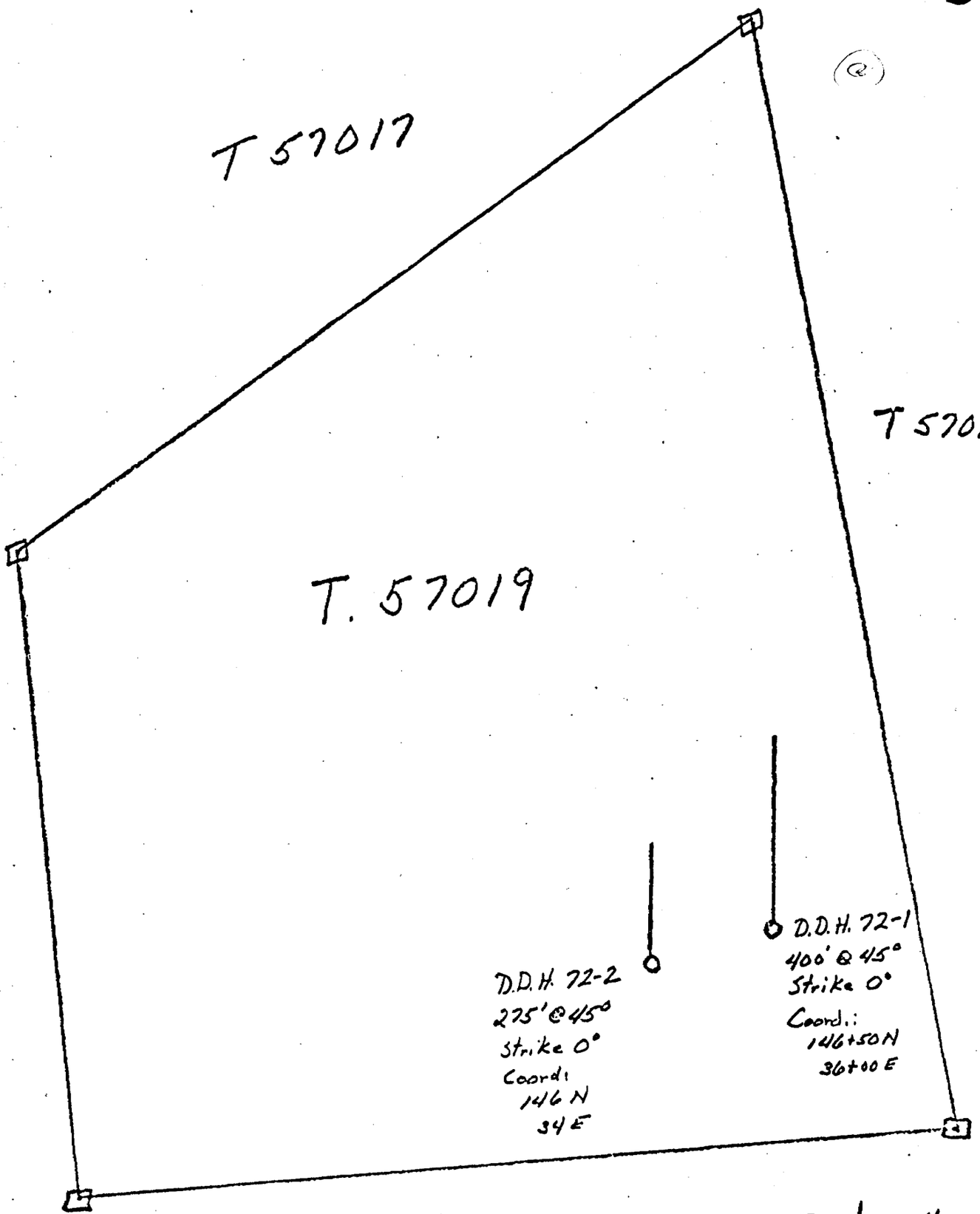
NOTE : All core delivered here to this office for logging by Arthur Laudenslager .

Drilled By Charles Mortimer , R.R. # 2 , Killworthy , Ont..

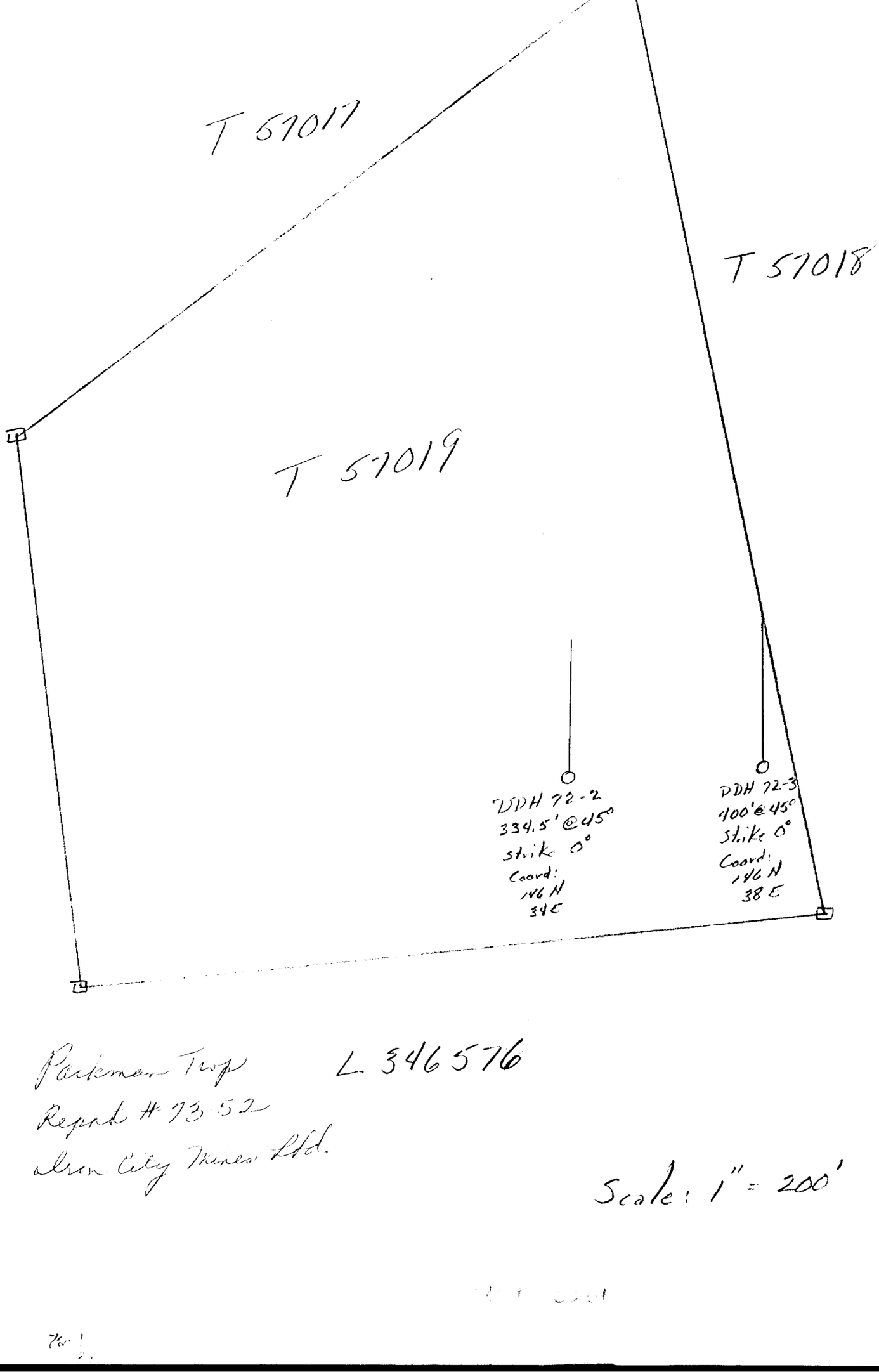
Logged By B.W. Chechak ,B.Sc. , P. Eng.
CONSULTING GEOLOGIST

REGISTERED PROFESSIONAL ENGINEER B.W.J. CHECHAK PROVINCE OF ONTARIO

B. W. Chechak



L 346576 Scale: 1" = 200'



Parkman Twp

L 346576

Report # 73-52

Iron City Mines Ltd.

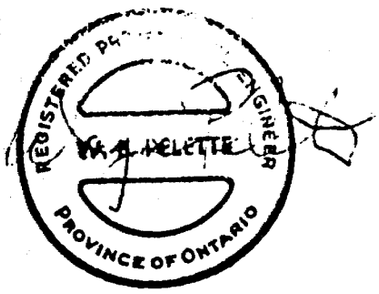
Scale: 1" = 200'

DRILL LOG

LOG OF IRON CITY MINES LIMITED D.D.H. #72-1

COLLAR CO-ORDS	DIP	STRIKE	CLAIM NO.	STARTED	COMPLETED
146 / 50N 36 E	45°	0°	T57019	Oct. 4, 1972	Oct. 19, 1972

0 - 13.6'	Casing
13.6' - 22.7'	Quartz-biotite ngeiss - dark grey, medium grained. Fine contorted banding.
22.7' - 31.6'	Quartzite - medium grained, pale grey with some reddish (hematized) sections. Fine biotite disseminated throughout.
31.6' - 35.0'	Lost Core
35.0' - 38.0'	Quartzite - as above
38.0' - 51.0'	Quartz - biotite gneiss - same as 13.6' - 22.7'.
51.0 - 100.0'	Quartzite - medium grained, medium grey. Considerable biotite throughout. 70% core recovery. Mud seam at 100'.
100.0' - 165.0'	Quartzite - ~~gneiss~~ greenish grey, medium grained, Few narrow sections containing minor magnetite.
129.5 - 131.7'	Lost Core
142.5 - 143.7'	Lost Core
165.0' - 309.0'	Iron Formation - greenish grey, medium grained, slight banding at 60° to core axis. Highly siliceous. Magnetite content is variable but generally does not exceed 20 - 25%.
195.8' - 197.2'	Lost Core
241.8' - 245.0'	Lost Core
309.0' - 370.0'	Quartzite - medium grained, light grey. Considerable biotite. Quite friable. 70% core recovery.
370.0' - 400.0'	Quartzite - as above, but more compact.
400.0'	End of Hole.



322/72 Parkman Twp.
Iron City Mines Ltd.

2010262

DRILL LOG

LOG OF IRON CITY MINES LIMITED D.D.H. # 72-2

COLLAR CO-ORDS	DIP	CLAIM NO.	STARTED	FINISHED
146N 34E	45°	T 57019	Oct. 22,'72	Oct. 26, 1972
	STRIKE 0°			

0 - 13.5' Casing

13.5' - 33.8' Diorite - medium grained, dark grey - mottled. Some quarts veining. Very minor pyrite and chaloopyrite. Slightly magnetic throughout.

33.8' - 35.7' Diabase dyke- fine grained, dark green

35.7' - 73.0' Diorite - same as 13.5 - 33.8'

73.0' - 76.5' Diabase dyke - same as 33.8 - 35.7'. Upper contact @ 60° to core axis.

76.5' - 89.4' Diorite - same as 13.5 - 33.8'.

89.4' - 93.0' Lost Core

93.0' - 106.7' Diorite - same as 13.5 - 33.8'

106.7 - 157.8' Quartzite - medium grained, pale green. Slightly altered throughout with some highly altered sections containing considerable biotite, possibly migmatized.

118.9 - 121.4' Lost Core

157.8 - 190.3' Biotite gneiss - medium grained, medium to dark green, highly contorted. Some siliceous sections.

190.3 - 214.5' Quartzite - fine grained, pale green. Slightly altered with minor fine biotite throughout. Nearly massive biotite seam @ 212.0'.

214.5 - 222.5' Quartzite - as above. 30% core recovery.

222.5 - 235.0' Quartzite - as above.

235.0 - 250.0' Quartzite - as above, but with more alteration, 30% core recovery.

250.0 - 275.0' Iron Formation - fine grained, light to medium grey. Contorted banding. Highly siliceous with minor magnetite.

Hole being deepened.

REGISTERED PROFESSIONAL ENGINEER
W. B. PELETTE
PROVINCE OF ONTARIO

207/72 Parkinson Twp
Iron City Mines

201 0263

Coordinates of Collar: 146N, 34 E. COMPANY IRON CITY MINES LTD. Claim No. T.57019 D.D.H. # 72-2

Dip -45° Strike 0° PROPERTY N. Webb L; Parkman Twp. Hole started 30 Oct.'72. Finished 2 Nov.'72.

Sample No.	Mr/ Hr	Dist. from ft	Formation	Width ft.	Assay Value	Fe %	%	Oz.	Oz.	Remarks
										Note:- This hole was deepened from previous drilling, & was
										designed to intersect magnetic anomaly "B".
		275.0	Metavolcanics	4.8						Highly altered & fractured rhyolitic lava, slightly granitized, this granitization increasing with depth toward lower contact
72-2-1		spec'n	for ODM. @ 278.6'	0.2						Pale grey-green in colour, & naturally, very fine-grained (vfg) Non-magnetic.("non-magn.")
		279.8	Orthogneiss	9.1						Granitized lava & schist, almost a Biotite (Bi) orthogneiss. Contains much silica (Q), hematite or ochre, Bi, with some
72-2-2		spec.	ODM. @ 281.5	0.2						epidote & garnet. It is non magnetic . The foliation is @ about 75° to the drill core axis. It is rosy-brown, black & white
										in colour.
		288.9	Metavolcanics	45.6						As from 275.0' above, becoming less granitized with depth away from the 288.9' contact). Occasional (occas.) slips &
										slickensides.
		@	307.0' Quartz	0.2						3" glassy Quartz ("Q") stringer (str.)
			322.5'-323.1'	0.6						Magnetic metavolcs., grey in colour, probably a magmatic
										segregation of vfg. microscopic magnetite in siliceous lava. This probably denotes proximity to main magnetic zone ahead.
72-2-3		spec.	ODM. @ 332.7	0.2						Metavolcs. as above from 288.9'
		334.5	End of hole.							Note:-
										At this point the bit & reaming shell broke off the rods
										& the hole had to be abandoned, just as the target was close.
										The EXT-size core is boxed, & stored in Co. shed at 555
										Burnhamthorpe Rd., Etobicoke, Ont. The core was logged by
										A. Hopkins, F.G.S., B.A.Sc., Consulting Geologist.

GEOLOGICAL ASSOCIATION OF CANADA Albert Hopkins FELLOW

Albert Hopkins.

20102H7

Coordinates of Collar: 147N, 38 E. COMPANY IRON CITY MINES LTD. Claim No. T.57019 D.D.H. # 72-3

Dip -45 Strike 0 PROPERTY N. Webb Lake, Parkman Twp. Hole started 3 Nov.'72 & finished 17 Nov.'72.

Sample No.	Mr/ Hr	Dist. from ft	Formation	Width ft.	Assay Value	Fe %	%	Oz.	Oz.		Remarks
								Note:-	This	hole was drilled to intersect magnetic anomaly "B", which	
								hole #	72-2	failed to do, due to broken rod & lost bit, etc.	
		0.0	No core	15.0				Casing			
		15.0	Biotite Gneiss	21.5				Bi. Orthogn., black, foliated @ 80 to core axis, fine-grained ("fg.")			
								non-magn., cut by occas. Q. strs..Contains occas. bleb of hematite or			
72-3-1		@ 17.0	specimen for ODM.	0.2				limonite or rust, & felspar, & micropegmatite.			
		36.5	Marble	2.4				Slightly silicified, white talcose calcite-rock, knife cuts hardly.			
72-3-2		@ 37.2	ODM. spec.	0.2				Marble			
		38.9	Pegmatite	1.5			Highly	Altered pegmatite ("alt. pegma.") with much less hema-limonite than			
								above, but cut by Q. strs. & with some orthoclase crystals ("Or.Xls.")			
		40.4	Biotite Gneiss	5.2				Bi. Gn. as after 15.0' above.			
			Alt. Pegma.	0.6				As above, from 45.0'-45.6'.			
		45.6	Marble	6.5				As above, only more impure & greyer. Contains many plates of Bi., &			
								some tiny pegma. strs.			
		52.1	Schist	15.3				Calc-Bi schist, siliceous, grey, contorted, with much sericite and			
72-3-3		@ 56.6	ODM. spec.					epidote & chlorite (chlor.), cut by some Q strs., non-magn., greenish.			
		67/4	Metaperidotite	6.5				Dark-grey, f.g., non-magn., cut by several serpentine strs. 1/16"-			
								1/8" in width.			
		73.9	No core	1.1				Ground up into a grey muddy talcose sludge material.			

(continued on page 2)

Coordinates of Collar: COMPANY IRON CITY MINES LTD. Claim No. D.D.H. #72-3

Dip Strike PROPERTY N. Webb L., Parkman Twp.

Sample No.	Mr/ Hr	Dist. from ft	Formation	Width ft.	Assay Value	Fe %	%	Oz.	Oz.	Remarks
		75.0	Orthogneiss	12.5						Dark-grey, foliated @ 45° to core axis, alt. basic plut-
72-3-4		@ 82.0	ODM. spec.	0.2						onic rock, with occas. glassy Q. str. & blebs of Or, Bi, Mu.
		87.5	Breccia	12.5						Orthogn. brecciated & laced with glassy Q strs., & some
										Bi & Or., non-magn.
		100.0	Igneous Rock	7.5						Dark-grey vfg. diorite (dior) or very coarse-grained (vcg)
										dacite.(need microscope). Homogeneous (homo) & non-magn.
		106.3	No core	1.2						Ground up into sludge & washed away.
		107.5	Orthogneiss	23.3.						As above, dark-grey, non-magn., with occas. glassy Q strs.
										High (hi) in Bi, becoming finer-grained with depth.
		122.3	Magmatic segr'n	2.2						Magn. vfg. grey-green metavolcanic.to 124.5'.
72-3-5	@	123.0	ODM. spec	0.2						Magn.
		127.5	No core	3.3						Ground up & washed away, probably very friable material.
		130.8	Breccia	3.3						Contains much Q, hema or limon, chert, & some pyrite (Py),
										pyrrhotite (Po), & chalcopyrite (Cp.). This section
										should perhaps be assayed for Ni, Cu, Au, Ag & Pt.
		134.1	Orthogneiss	10.9						As above; pink-grey colour, hi in Bi & pink Or.
	@	141.1	Red ochre	½"						A blood-red seam of iron oxide.
72-3-6	@	144.5	ODM. spec.	0.2						Othogn.
		145.0	Magmat. Segreg'n	201.8						Varying from very slightly to very magn. grey lava. (sil.)

(concluded on page 3).

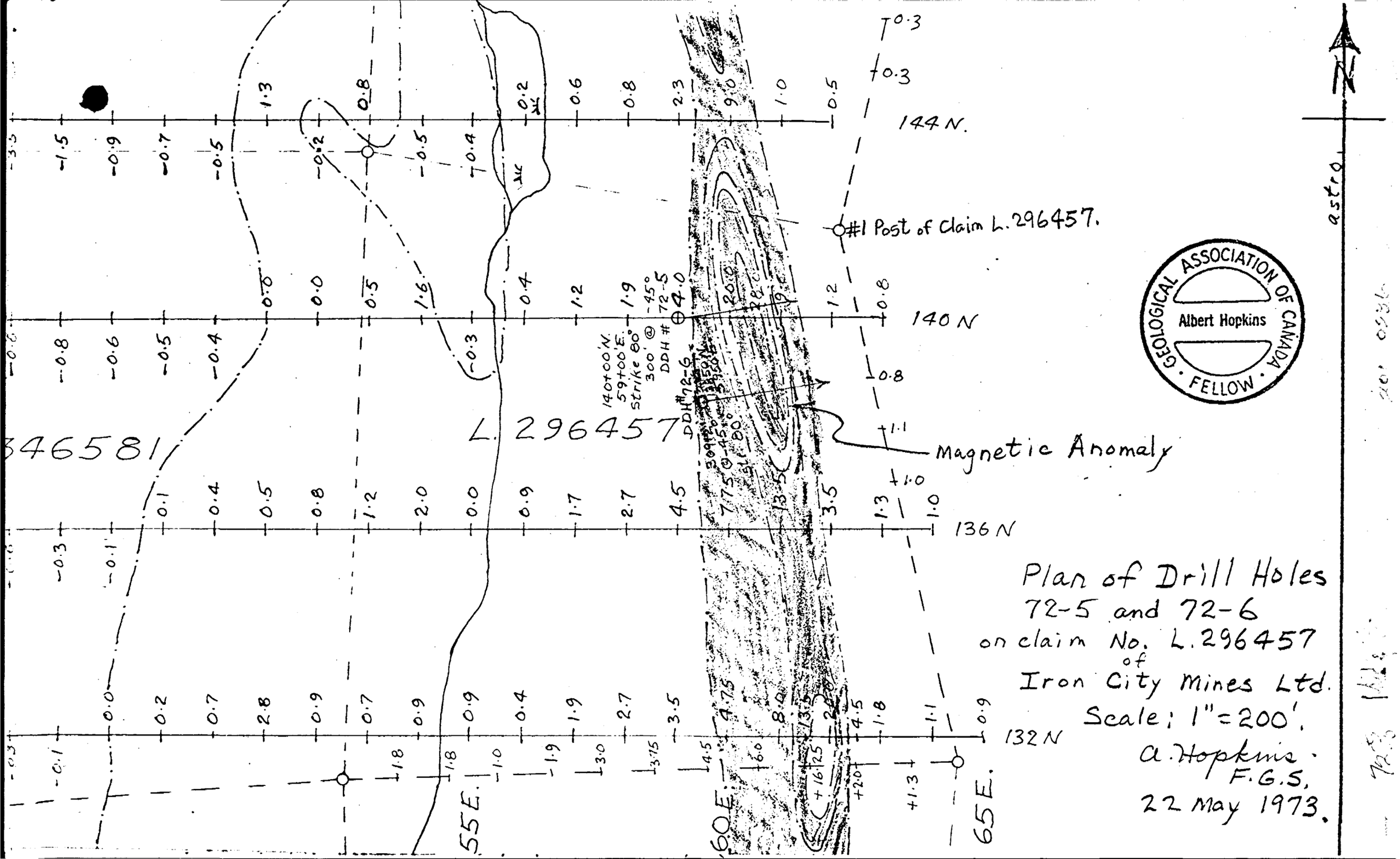
Coordinates of Collar: COMPANY Iron City Mines Ltd. Claim No. D.D.H. # 72-3

Dip Strike PROPERTY N. Webb L., Parkman Twp.

Sample No.	Mr/ Hr	Dist. from ft	Formation	Width ft.	Assay Value	Fe %	%	Oz.	Oz.	Remarks
72-3-7	@	158.3	ODM. spec.	0.2						Dull grey colour, vfg., as above after 122.3'.
		162.5	Magmat. segregn	12.5						Non-magn. phase, otherwise same as above.
		175.0	Magn. " "	9.2						Magn. & blacker than above (more graphite & magnetite).
72-3-8	@	184.2	ODM magn. spec.	0.2						becoming lighter (greyer) with depth.
72.3.9	@	216.3	" " "	0.2						
72.3.10	@	237.8	" " "	0.2						
72-3-11	@	263.7	" " "	0.2						
			50% pyrrhotite	0.7						273.2'-273.9' Possibly contains Ni & Pt.
72-3-12	@	292.4	ODM. magn. spec.	0.2						
72-3-13	@	312.8	" " "	0.2						
		320.4	magmat. segreg'n	26.4						Non-magn, becoming more gneissic with depth, & increas-
	@	334.9	slightly magn.	0.1	with some Po.					ing amts. of Bi, Mu, and Q seams with depth.
			Black sludge	0.6						345.0'-345.6' Black, graphitic.
		345.6	Tuff band	1.2						Cg. pyroclastic, dark grey colour.
72-3-14	@	346.0	ODM. tuff spec.	0.2						
		346.8	Orthogneiss	53.2						Bi-Mu Gn,"salt & pepper" foliations @ 75° to core axis.
72-3-15	@	362.6	ODM. spec.	0.2						Mu increasing & Bi decreasing with depth.
72-3-16	@	387.5	ODM. spec.	0.2						Note:
		400.0	End of Hole.							The core is stored at Iron CIty's warehouse, at

555 Burnhamthorpe Rd. (EXT size). Core logged by A. Hoskins.

201 0250



GEOLOGICAL ASSOCIATION OF CANADA
Albert Hopkins
FELLOW

Plan of Drill Holes
72-5 and 72-6
on claim No. L.296457
of
Iron City Mines Ltd.
Scale: 1" = 200'.
A. Hopkins.
F.G.S.
22 May 1973.

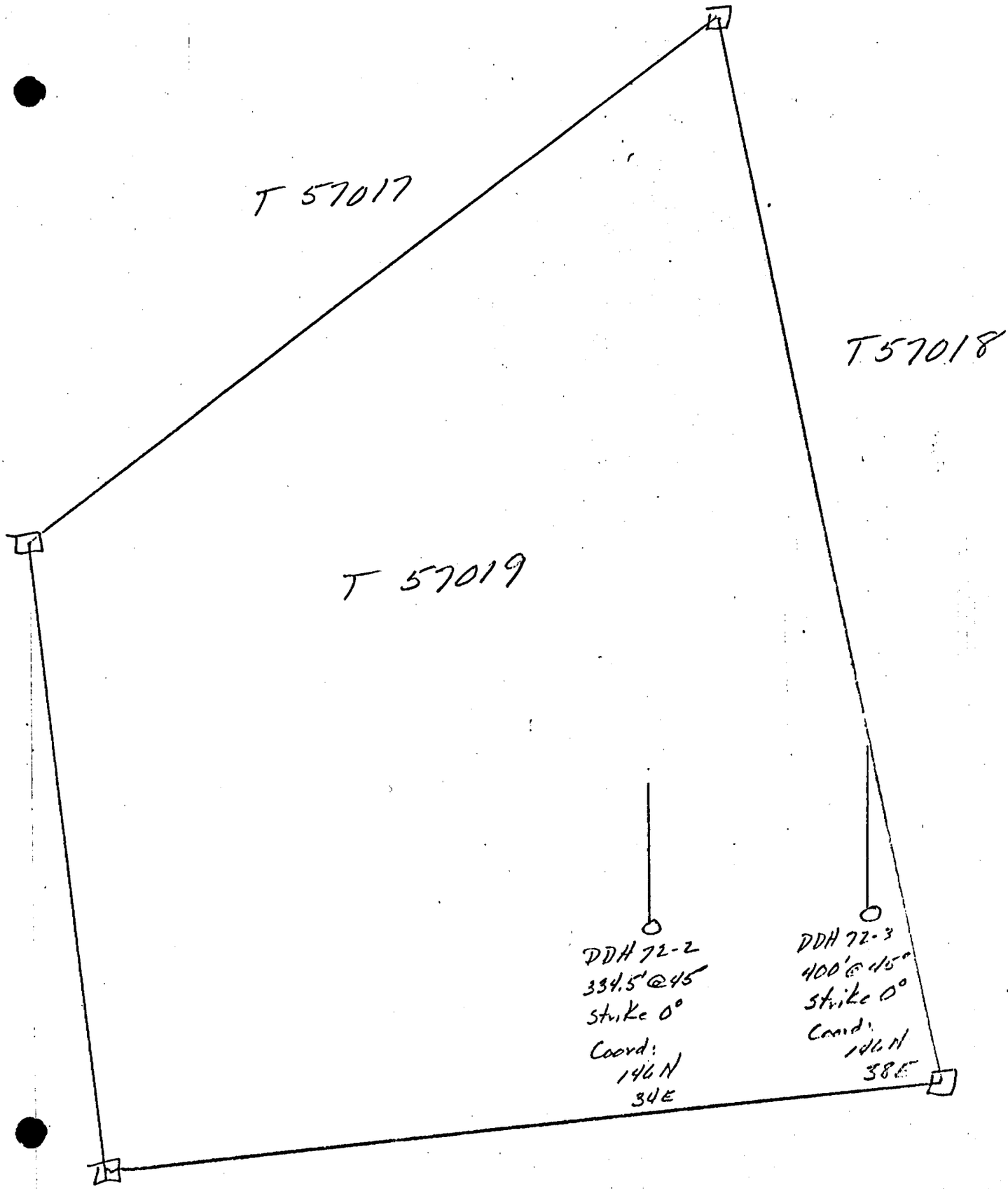
Coordinates of Collar: 140 + 00'N. 59 + 00'E.
Dip -45° Strike 80°

COMPANY Iron City Mines Ltd.
PROPERTY N. Webb L., Parkman Tp., Nipissing, Ont.

Claim No. L.296457 D.D.H. #72-5
Hole started : 14 Apr.'73.
Hole finished: 27 Apr.'73.

Sample No.	Mr/ Hr	Dist. from ft	Formation	Width ft.	Assay Value	%	%	Oz.	Oz.		Remarks
		0'	Overburden	76.2				Casing	-	no	core.
		76.2	Orthogneiss	219.1				Grenville orthogn., consisting of Muscovite (Mu) & Biotite (Bi) Schist (Sch), siliceous Limestone (sil. LS.), Quartzite (qtzite),			
								Quartz Veins (QV's) & Stringers (strs.), pegmatite (pegma) dykelets, granitized migmatite (gran. migma), Iron Formation (IF),			
								slate, granite gneiss (gran.gn), etc., as follows:-			
			76.2'-77.0'	0.8				Gran. gn., grey in colour, fine-grained (fg.), Q, Bi, Orthoclase (Or.)			
			77.0'-78.0'	1.0				Q, pure white, sugary, barren-looking.			
			78.0'-78.5'	0.5				Migma - granitized diorite (dior) or lava, grey, fg., partially ground-up.			
			78.5'-80.4'	1.9				Q, as above, containing a few pale-green streaks.			
			80.4'-81.3'	0.9				Altered (alt) dior or lava as above, dark grey-green, very fine-grained 9vfg), mainly ferro-magnesian silicates.			
			81.3'-81.7'	0.4				Q as above.			
			81.7'-81.9'	0.2				Alt dior, black, vfg, containing pink pegma (mostly Or.)			
			81.9'-82.1'	0.2			A	T least 2 generations of Q, one whiter, the other grey-glassier. Brecciated.			
			82.1'-86.1'	4.0				Gran (Q-Mu) Gn., pale-grey-green-brown, vfg.			
			86.1'-89.6'	3.5				Q, white as above.			
72-	5-1		87.0'-87.3'	0.3				Typical Q specimen for the Ont. Dept. Mines Dist. Geol. (ODM).			
			89.6'-90.1'	0.5				Alt lava as above, very dark grey-green.			
			90.1'-91.1'	1.0				Q as above.			
			91.1'-91.9'	0.8'				Q-Mu Gran Gn. as above, pale grey-green-brown.			
			91.9'-93.1'	1.2				Q as above, white.			

(continued on page 2)



L 346.576

Scale: 1" = 200'

Sol 0251

Coordinates of Collar: COMPANY Iron City Mines Ltd. Claim No. D.D.H. # 72-5

Dip Strike PROPERTY N. Webb L., Parkman Tp.

Sample No.	Mr/ Hr	Dist. from ft	Formation	Width ft.	Assay Value	%	%	Oz.	Oz.	Remarks
			93.1 - 96.3	3.2				Mu-Q Gran gn., much darker-grey-green than above, with much more contained Mu.		
			96.3 - 96.6	0.3				Q, containing greenish streaks (Mu?).		
			96.6 - 100.8	4.2				Mu-Q-Bi Gran. Gn., contorted, banded, varying in colour from pale grey-green to dark black-green, containing some narrow bands of white (wh) Q & pink Or. pegma.		
			100.8 - 111.7	0.9				Dior.-gn., vfg, black, igneous (ig) Gn., foliated, containing some fg. disseminated (dissem) pyrrho.(po) & Py (Pyrite).		
72-5-2			110.8 - 111.1	0.3				ODM. spec.		
			111.7 - 113.0	1.3				Mainly Q, containing streaks of green Mu & pink Or.		
			113.0 - 113.6	0.6				Dark green dior. gn. containing streaks of Q & Mu.		
			113.6 - 115.2	1.6				Mu-Q Gran. Gn., dark grey-green.		
			115.2 - 115.7	0.5				Wh. Q with pale green & pink streaks.		
			115.7 - 115.9	0.2				Dior. Gn., dark green, vfg.		
			115.9 - 118.5	2.6				Wh Q. with some streaks of pale green and pink.		
			118.5 - 128.2	9.7				Dior. Gn. as above, with some streaks of dark Mu & Bi sch., & wh. Q strs. & veinlets.		
			128.2 - 138.2	10.0				Q as above, appearing as tho it is a recrystallized impure qtzite.		
			138.2 - 139.2	1.0				Bi-Mu-Q Gran. Gn. or Sch., contorted, dark grey-green.		
72-5-3			138.7 - 139.0	0.3				ODM.		
			139.2 - 146.9	7.7				99% Q, wh. to pale grey-green, with streaks of brown Mu.		
			146.9 - 153.8	8.9				Dior.-Gn. as above, containing streaks & bands of Q & Mu Gran.Gn., which streaks are white and pale green.		
			153.8 - 155.4	1.6				Trap dyke, vfg, black, fresh, dense, & slightly magnetic (sl.magn)		

(continued on p. 3)

Coordinates of Collar: COMPANY Iron City Mines Ltd. Claim No. D.D.H. # 72-5

Dip Strike PROPERTY N. Webb L., Parkman Tp.

Sample No.	Mr/ Hr	Dist. from ft	Formation	Width ft.	Assay Value	%	%	Oz.	Oz.	Remarks
72-5-4			155.0 - 155.3	0.3				ODM.-		magnetic (magn.)
			155.3 - 185.0	29.7						Iron-rich impure banded Iron Formation (BIF) & dior. gn., with streaks & strs. of Q & Mu, & varying degrees of magn.,most weak.
			173.7 - 174.0	0.7						Streaks of blood-red hematite (hema) & more magn. than above.
72-5-5			177.8 - 178.1	0.3				ODM.		magn. I.F.
			185.0'- 185.4	0.4						Impure IF. as above, only less magn. & cut by many pink pegmas.
			185.4 - 197.0	11.6						Dark grey dior. gn. containing much Bi, foliated.
			197.0 - 197.5	0.5						Magn. IF. as above - dark grey.
			197.5 - 201.0	3.5						Dior. Gn. as above.
			201.0 - 214.0	13.0						sl. magn. mixed IF. & Dior Gn. as above, red hema streaks.
72-5-6			206.7 - 207.0	0.3				ODM.		v. sl. magn.
			214.0 - 246.9	32.9						Bi-Mu-rich Dior. Gn, dark grey, with occasional (occas) Q. & pegma streaks, non-magn.
72-5-7			236.8 - 237.1	0.3				ODM.		
			246.9 - 250.0	3.1						No core, ground up & lost. Probably mica schist.
			250.0 - 250.4	0.4						Bi Gn, dark grey, foliated.
			250.4 - 254.4	4.0						No core, probably mica schist.
			254.4 - 285.9	31.5						Q-Bi-Mu Gran Gn, light grey.
72-5-8			262.1 - 262.4	0.3				ODM.		
			285.9 - 287.9	2.0						No core, probably mica schist.
72-5-9			292.2 - 292.5	0.3				ODM.		

295.3' End of hole.

Note:- AXT Core was logged by Albert Hopkins, B.A.Sc. & is stored at Co. office warehouse, 555 Burnhamthorpe Rd., Etobicoke, Ont. Albert Hopkins 22 May 1973

GEOLOGICAL ASSOCIATION OF CANADA · Albert Hopkins · FELLOW ·

Coordinates of Collar: 138 + 50'N.
59 + 50'E.

COMPANY Iron City Mines Ltd.

Claim No. L.296457 D.D.H. # 72-6

Dip -45 Strike 80

PROPERTY N. Webb L., Parkman tp., Nisissing, Ont.

Hole started 30 Apr. 1973.
finished 11 May 1973.

Sample No.	Mr/ Hr	Dist. from ft	Formation	Width ft.	Assay Value	%	%	Oz.	Oz.		Remarks
		0.0	Overburden	85.5				Casing, no core.			
		85.5	Orthogneiss.	223.7				Typical Grenville series metamorphosed crystalline rock formations with much repetition and mixing of the various rock types, as follows:-			
			86.3- 87.1	0.8				Q-Bi Gran. Gn, dark grey, containing some vfg. dissem. Pyrite (py).			
			87.1- 92.9	5.8				90% Q or Qtzite, banded, containing many streaks of white to grey Bi. (non-magn.)			
72-6-1			92.3- 92.6	0.3				Typical spec. for the ODM. geologist.			
			92.9-125.6	33.7				60% Q or Qtzite, balance (bal.) being streaks, bands or zones of Dior. Gn. and Bi- & Mu Sch. & Gn., with occas. later Q pegma str. & veinlet.			
72-6-2			117.3-117.6	0.3				ODM. spec.			
			125.6-148.3	22.7				Bi-rich Dior. Gn., dark (dk)-grey, foliated metadior. cut by many seams of Q, pegma & mica Sch., including some Mu & some red hema stain, & by occas. magn. bands in similar Bi Dior. Gn.			
72-6-3			142.8-143.1	0.3				ODM.			
			148.3-149.2	0.9				No core, probably was ground-up mica schist.			
			149.2-152.0	2.8				sl. magn. Bi-Dior. Gn.			
			152.0-167.5	15.5				Mainly pink Or.-Gran. pegma which has injected or invaded the Dior. Gn., of which quite a bit remains. (non-magn.).			
72-6-4			158.6-158.9	0.3				ODM. - typical of above pegma invasion.			
			167.5-191.4	23.9				Alternating sl. magn. bands of IF. & non-magn. Bi-Dior Gn, cut by Q strs. Contains much red hematite in places.			
72-6-5			185.2-185.5	0.3				ODM.			
			191.4-194.3	2.9				No core, probably ground-up mica Schist.			

(continued on page 2)

Coordinates of Collar: COMPANY Iron City Mines Ltd. Claim No. D.D.H. # 72-6

Dip Strike PROPERTY N. Webb L., Parkman tp., Nipissing, Ont.

Sample No.	Mr/ Hr	Dist. from ft	Formation	Width ft.	Assay Value	%	%	Oz.	Oz.	Remarks
			194.3-196.5	2.2						Bi-Gn or Sch., 95% Bi, non-magn.
			196.5-197.4	0.9						No core, probably mica schist.
			197.4-207.3	9.9						Bi Sch or Gn, with some Hb (hornblende), Mu & Magn.
			207.3-212.5	5.2						Magn-rich Bi gn., med.-grey in colour, black streaks where magn IF.
72-6-6			212.0-212.3	0.3						ODM., sl. magn.
			212.5-238.8	26.3						Black Bi- & minor Mu- Gran. Gn. or Sch, perhaps 90% micas, containing dissem. fg Q, & cut by occas. narrow Q or pegma str.
72-6-7			235.8-236.1	0.3						ODM.
			238.8-243.4	4.6						Trap dyke, vfg ig. dyke, dark grey.
			243.4-244.8	1.4						Lamprophyre (lamp) dyke, coarse-grained (cg), containing Or, much Bi, & magn [illegible] Gn.
			244.8-262.0	17.2						Bi-Gran Gn, with perhaps 40% Bi, dark grey, with some Or.
72-6-8			254.9-255.2	0.3						ODM.
			262.0-265.7	3.7						No core, probably ground-up mica Sch.
			265.7-269.4	3.7						Bi-Mu-Or-Gran Gn, med-grey in colour.
			269.4-270.9	1.5						No core, probably ground-up mica Sch.
			270.9-272.0	1.1						Bi-Mu Gran. Gn. as above, probably 90% mica (Bi & Mu).
			272,0-275.0	3.0						No core, possibly mica Sch.
			275.0-277.1	2.1						Bi-Mu Gran Gn. as above.
			277.1-279.5	2.4						No core.
			279.5-282.4	2.9						Bi-Mu Gran Gn as above.

(continued on page 3)

Coordinates of Collar: COMPANY Iron City Mines Ltd. Claim No. D.D.H. #72-6

Dip Strike PROPERTY N. Webb L., Parkman Tp., Nipissing.

Sample No.	Mr/ Hr	Dist. from ft	Formation	Width ft.	Assay Value	%	%	Oz.	Oz.		Remarks
72-6-9			280.3-280.6	0.3				ODM.			
			282.4-287.5	5.1				No core.			
			287.5-309.2	21.7				Bi-Mu-Or-Gran Gn, with occas. micropegma. str. or blob.			
72-6-10			305.4-305.7	0.3				ODM.			
		309.2'	End of hole.								

Note:-

This AXT drll core was logged by consulting geologist Albert Hopkins, B.A.Sc. and is stored at the office warehouse of Iron City Mines Ltd. at 555 Burhhamthorpe Rd., ETOBICOKE, Ont.

Albert Hopkins.

22 May 1973.

GEOLOGICAL ASSOCIATION OF CANADA
Albert Hopkins
FELLOW

Opimika Creek

48381

48007

60-1

0+00

44085

60-2

60-3

Beaver Dam

48008

Beaver Pond

47602

Beaver Dams

10 S

48009

Pond

60-6

60-5

Base Line

44086

Beaver Dams

44088

60-4

20 S

Trail

30 S

44087

48015

40 S

48014 or 47527

48392

LEGEND

PRECAMBRIAN

- 5 — Biotite schist, biotite-garnet-quartz gneiss
- 4 — Granite gneiss
- 4p — Granite gneiss with feldspar porphyroblasts
- 3 — Limestone, crystalline and silicated
- 2 — Iron formation
- 2a — Iron formation; largely amphibole schist
- 1 — Muscovite gneiss

- Boundary of rock outcrop
- Small rock outcrop
- Strike and dip
- Drag fold, angle of plunge (70)
- Geological boundary, defined
- Geological boundary, assumed
- Swamp, swamp boundary
- Picket line
- Drill hole
- Trail
- Cliff
- Claim post and boundary

FIG. 3a

TERRELL IRON PROJECT
PARKMAN TOWNSHIP - ONTARIO

GEOLOGICAL MAP

0 200 400 600 800
FEET

Sept. '65

40-0097

200

Legend

- 5,000 to 10,000 gammas
- 10,000 to 20,000 gammas
- 20,000 to 40,000 gammas
- over 40,000 gammas
- Pond
- Claim Corner
- Stream
- Negative Mag. depression
- Diamond Drill Hole
- Diorite in Core
- Iron Ore in Core
- Drill Hole Casing

Magnetic Survey and Drilling

GREEN LAKE IRON ZONES

IRON CITY MINES LTD.

Parkman Tp., Timiskaming Mg. Div.
Ontario

Readings by R.S. Gray & A. Hopkins

Scale: 1" = 200'
Readings in 1,000 Gamma Units

15th Nov. 1965
revised May 1966.

A. Hopkins

DRAWING No. 65-10

GEOLOGICAL ASSOCIATION OF CANADA
Albert Hopkins
FELLOW

Albert Hopkins
31 May 1966.

RECEIVED
JUN 6 - 1966
TEM/ SK/ MING
MINING DIVISION

Proposed D.D.H. No 7 - Str. 205° dip 45° length 840 Collar 4475'S., 90'E.

Outcrop: Barren Granite Greiss

D.D.H. No 1 abandoned Str. 20 dip 45° length 102' (Gravel) Collar 6230 S. 980 W.

D.D.H. No 2 Str. 55° dip 45° length 962' Collar Co-ords 64S 21W. approx. same as Green Lake

D.D.H. No 3 Str. 20 dip 45° length 996' @ 90° Collar 6105 S. 1080 W.

D.D.H. No 4 Str. 20 dip 45° length 102' abandoned @ 90° Collar 6230 S. 1080 W.

D.D.H. No 5 Str. 20 dip 45° length 103' abandoned Collar 6230 S. 1080 W.

D.D.H. No 6 Str. 20 dip 45° length 102' abandoned Collar 6230 S. 1080 W.

D.D.H. No 7 Str. 205° dip 45° length 840 Collar 4475'S., 90'E.

HOLE 3A Str. 20 Dip 45° @ 58° WD 455' WD 736'

HOLE 3 (1755' S. from island) abandoned Azim 22° Dip 45° 103'

Tractor Road to Main Road 1 mile

Green Lake

Pump House

ROAD

TRACTOR ROAD

Pond

ISLAND

Green Creek

Moose pasture

Thin dangerous ice

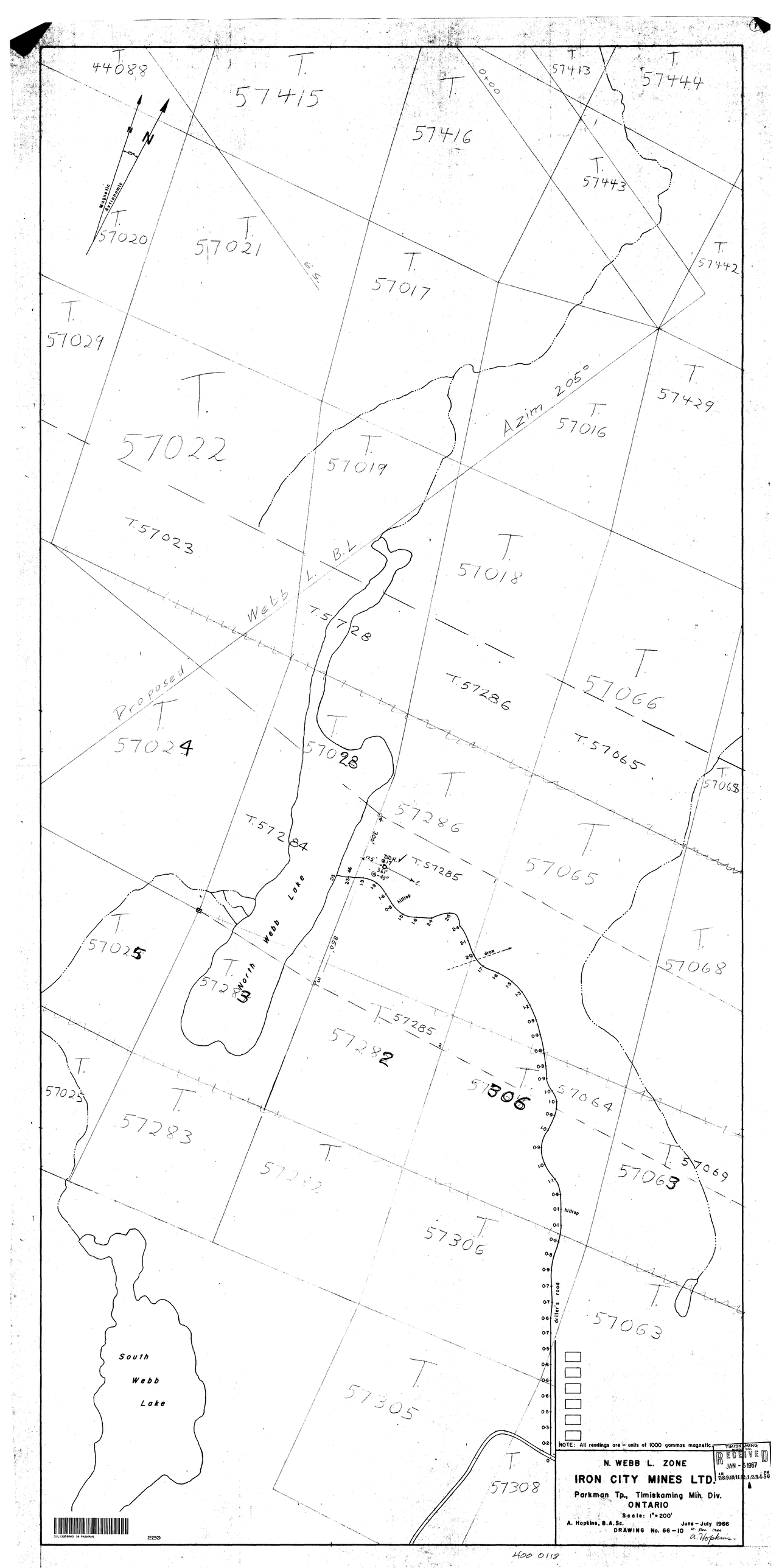
T. 56532
T. 56625
T. 56624
T. 56625
T. 57276
T. 57277
T. 57278
T. 57280
T. 57281

22.00S. 24.00S. 28+00S. 32+00S. 36+00S. 38+00S. 40+00S. 44+00S. 48+00S. 52+00S. 56+00S. 60+00S. 64S. 66S. 68S. 70S. 72S. 74S. 76S. 78S. 80S. 82S. 84S. 86S. 88S. 90S. 92S. 94S. 96S. 98S. 100S.

Baseline 325°

Baseline 145°

24W. 20W. 15W. 10W. 5W. 5E. 10E. 15E.


T. 44088
T. 57415
T. 57416
T. 57413
T. 57444
T. 57443
T. 57442
T. 57020
T. 57021
T. 57017
T. 57029
T. 57022
T. 57019
T. 57016
T. 57429
T. 57023
T. 57018
T. 57728
T. 57286
T. 57066
T. 57065
T. 57068
T. 57024
T. 57028
T. 57284
T. 57285
T. 57025
T. 57282
T. 57306
T. 57064
T. 57069
T. 57283
T. 57063
T. 57305
T. 57308
Azim 205°
Webb L. B.L.
Proposed
Webb Lake
North
South Webb Lake
hilltop
drive
driller's road
D.D.H.
NOTE: All readings are – units of 1000 gammas magnetic.
N. WEBB L. ZONE
IRON CITY MINES LTD.
Parkman Tp., Timiskaming Min. Div.
ONTARIO
Scale: 1" = 200'
A. Hopkins, B.A.Sc.
June – July 1966
DRAWING No. 66 – 10
TIMISKAMING
RECEIVED
JAN – 5 1967
220
400 0118

57426
57446
57428
57425
57462
Opimika Creek
57412
56179
48381
57411
56174
48007
57444
57424
Road
Jeep
4NE.
D.D.H. #10
515' @ -45°
57413
56178
57414
56177
48008
57443
57423
60-1
Trail
0+00
Beaver Dam
60-2
60-3
44085
D.D.H. 71-2
new posts
57416
56175
57420
vert
H.H.3
4 S.
#8
750' @ -45°
#9 457' vert.
Former
Beaver Pond
6 S.
cleared
8 S.
47602
205° Azim.
57415
56176
48009
57017
Beaver Dams
10 S.
Base Line
57421
60-6
60-5
57419
44086
57021
Beaver Dams
44088
60-4
20 S.
Trail
57418
57020
44087
30 S
57462
57417
48015
40 S.
47527
48014
57030
57459
56330
48392

LEGEND

PRECAMBRIAN
- 5 Biotite schist, biotite-garnet-quartz gneiss
- 4 Granite gneiss
- 4p Granite gneiss with feldspar porphyoblasts
- 3 Limestone, crystalline and silicated
- 2 Iron formation
- 2a Iron formation, largely amphibole schist
- 1 Muscovite gneiss
- Boundary of rock outcrop
- x Small rock outcrop
- Strike and dip
- Drag fold, angle of plunge
- Geological boundary, defined
- Geological boundary, assumed
- Swamp, swamp boundary
- Picket line
- Drill hole, P = proposed
- Trail
- Cliff
- Claim post and boundary

GEOLOGICAL PLAN

COOK ZONE

IRON CITY MINES LTD.

Parkman Tp., Timiskaming Min. Div. NE. Ont.

Scale: 1" = 200'

A. Hopkins, B.A.Sc. Dec. 1965

DRAWING No. 65-3 31-L 14