

DIAMOND DRILLING



32D04SE0217 29 HEARST

010

TOWNSHIP: Hearst

REPORT No.: 29

WORK PERFORMED BY: Hemlar Resource Exploration Ltd.
(J. A. Mortson)

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
L 636739	HR-1	301	Feb/83	(1)
	HR-2	300	Feb/83	(1)
L 636738	HR-3	301	Feb/83	(1)
	HR-4	302	Mar/83	(1)
		<u>1204</u>		

NOTES: (1) #123-83

D. D. HOLE No. HR-1

Loc. 636739 Dip collar : 45° Bearing collar : Grid West Length: 301 ft.
 2+00 N : : N 54° W Collar el. :
 0+50 W : : Bottom el. :
 Drilled by: Heath & Sherwood Core size: BQ Begun: Feb. 21/83 Ended: Feb. 25/83 Logged by: K.H. Darke

Samples	Footage drilled				Geology
	From	To	Len.	Rec. %	
	0	23.0	23.0	0	OVERBURDEN
	23.0				FELSIC AGGLOMERATE: mottled texture due to variable coloured (lt. & dark green, black) angular fragments generally from 1/8" to 1/2" long oriented parallel to weak schistosity; brecciated in part with chloritic fractures; a few thin Quartz-Carbonate stringers.
					32':- elongated fragments @ 40° to core axis.
					42':- " " " @ 27° " " "
					51-63':- a few thin Qtz-Carb. strgs. @ 57° & 76°.
					92':- Contact; coarse to finer-grained fragments @ 58° to c.a.
					99':- coarse fragments elongated @ 54° to c.a.
					108':- 1/2" quartz stringer @ 49° to c.a.
		117.5	94.5	100	117':- a few thin Q-C strgs. with dissem. Pyrite.
		117.5	.....	.....	... Contact @ 47° to c.a.
	117.5				INTERMEDIATE FLOW: greyish-green; brecciated in part with siliceous, black, fine-grained matrix around fragments.
		132.0	14.5	"	132':- Contact with dissem. Py @ 42° to c.a.
		132.0	.....	.....	... Contact with dissem. Py @ 42° to c.a.
	132.0				FELSIC LAPILLI TUFF: mostly small (1/16" to 1/8") angular grey fragments in dark grey to black matrix; only minor chloritic schistosity.
		140	8.0		134':- elongated fragments @ 47° to c.a.
		140	.....	.....	... distinct Contact @ 45° to c.a.
	140				BRECCIATED FELSIC AGGLOMERATE: light grey; predominantly grey fragments with a few mafic (black, fine-grained) fragments.
		144	4.0	"	144':- Contact Zone; vuggy; broken & ground core.
	144	146	2.0	50	... Contact Zone; " " " "
	146	148	2.0	90	... Contact Zone; diss. Py & limonite staining.
	148				GRAPHITIC TUFF & MUDSTONE (grey); 10% Py filling irregular fractures.
		150	2.0	100	150':- filling irregular fractures.
VLF-EM COND.	150				GRAPHITIC TUFF: alternating black & grey layers @ 52° to c.a.
		156.8	6.8	"	D. D. Hole No. HR-1

KHD

Loc. Dip collar : Bearing collar : Length: 301 ft.
 : Collar el. :
 : Bottom el. :

Drilled by: Core size: Begun: Ended: Logged by: KHD

Samples	Footage drilled				Geology
	From	To	Len.	Rec. %	
		156.8	.....	.....	... distinct Contact @ 64° to core axis with conformable 1/16" Pyrite stringer.
	156.8	157	0.2	100	MUDSTONE: dark grey.
		157	.....	.....	... Contact @ 67° to c.a.
VLF-EM CONDUCT.	157				GRAPHITIC TUFF: abundant Graphite; a few stringers & blebs Pyrite.
					159':- irregular bedding @ 42° to c.a. 165':- distinct bedding @ 52° (lt. & dk. layers).
		178.3	21.3	"	176':- contorted bedding (Slumpage features). 177.8 - 178.3':- 10% Py strgs. @ 53° to c.a.
		178.3	.....	.....	... Contact @ 66° to c.a.
	178.3				MUDSTONE: greyish-green, massive; scattered
		179.8	1.5	"	soft, round eyes of emerald-green carbonate (?).
		179.8	.....	.....	... Contact ground; Pyrite @ contact.
	179.8	181	1.2	"	GRAPHITIC TUFF
		181	.....	.....	... irregular Contact
	181	181.6	0.6	"	MUDSTONE (as before); emerald-green pods.
		181.6	.....	.....	... distinct Contact @ 69° to c.a.
	181.6				GRAPHITIC TUFF with scattered intercalated beds of grey MUDSTONE.
					196':- Graphitic bedding @ 47° to c.a. 197':- distinct layering @ 45° to c.a.
		198.5	16.9	"	195-198.5':- vuggy sections; limonite staining. 197.5-198.5':- brecciated, irreg. transition zone.
	198.5				MUDSTONE: dk. grey, massive with a few brecciated Graphitic & Chloritic zones; scattered Qtz-Carb. stringers with disseminated Pyrite.
		276	77.5	"	198.5-220':- a few scattered Graphitic zones. 258-59':- Hematite staining.
		276	.....	.....	... Contact; Chloritic gouge over 2".
	276	278	2.0	"	Flow Top; abundant Carbonate stringers.
	278	301	23	90	BASALT: vuggy & leached; broken core.
	END OF HOLE				



D. D. HOLE No. HR-2

Loc. 636739 Dip collar : 45° Bearing collar : Grid West Length: 300 ft.
 6+00 N : : N 54° W Collar el. :
 6+70 E : : Bottom el. :

Drilled by: Heath & Sherwood Core size: BQ Begun: Feb. 25/83 Ended: Feb. 26/83 Logged by: K.H. Darke

Samples	Footage drilled				Geology
	From	To	Len.	Rec. %	
	0	82	82	0	OVERBURDEN
	82				BASALT: massive, dk. greenish-black with some Chloritic partings; scattered Quartz-Carbonate stringers with disseminated Pyrite.
					94.1':- flow contact @ 50° to core axis. 94.5':- " " @ 51° " " "
		106	24	100	102':- " " @ 49° " " " 102-06':- limonite staining; Q-C stringers.
		106	.....	.....	... Contact ground.
	106				MAFIC TUFF: massive, dk. greenish-black
		127	21	"	Chloritic rock; abundant thin Q-Carb. strgs.
		127	.....	.....	... gradational change to Lapilli Tuff.
	127				LAPILLI TUFF containing small (1/16-1/4") elongated, lt. & dk. coloured angular fragments.
		145	18	"	132':- Sch. & fragments elongated @ 42° to c.a. 137':- " " " " @ 38° " "
		145	.....	.....	... Contact @ 43° to c.a.
	145				AGGLOMERATE: multicoloured felsic & mafic angular fragments (1/4-2") & porphyry fragments (up to 2").
		159.3	14.3	"	154':- Sch. & fragments elongated @ 37° to c.a.
		159.3	.....	.....	... irregular Contact
	159.3				MAFIC TUFF: fine-grained, black.
		169.1	9.8	"	161':- Schistosity (bedding?) @ 27° to c.a. 169':- " " " " @ 33° " "
		169.1	.....	.....	... distinct Contact @ 33° to c.a.
VLF-EM CONDUCT.	169.1	172.8	3.7	"	GRAPHITIC TUFF: a few Q-C strgs.; minor Pyrite.
		172.8	.....	.....	... gradational Contact
	172.8				MAFIC TUFF: fine-grained, black.
					175':- Bedding (?) @ 38° to c.a. 187':- " " " " @ 42° " "
		193.3	20.5	"	192-93.3':- highly brecciated, chloritic.
		193.3	.....	.....	... Contact @ 33° to c.a.
	193.3	202	8.7	"	GRAPHITIC TUFF: scattered Qtz-Carb. strgs.

D. D. Hole No. HR-2

KAD

Loc. Dip collar : Bearing collar : Length: 300 ft.
 : : Collar el. :
 : : Bottom el. :

Drilled by: Core size: Begun: Ended: Logged by: KHD

Samples	Footage drilled				Geology
	From	To	Len.	Rec. %	
		202	.....	.....	distinct Contact @ 28° to core axis.
202					MAFIC TUFF: chloritic; scattered Qtz-
		210.4	8.4	100	Carbonate stringers.
		210.4	.....	.....	Contact ground; 2" Qtz-Carb. strg.
210.4					ANDESITE: massive, greenish-black;
					chloritic partings; numerous thin, irreg.
					Qtz-Carbonate strgs.
					220':- 5" Qtz-Carb. strg.
		300	89.6	"	253':- 2" " "
	END	OF	HOLE		



D. D. HOLE No. HR-3

Loc. **636738** Dip collar : **45°** Bearing collar : **Grid West** Length: **301 ft.**
 28+00 N : : : **N 54° W** Collar el. :
 6+60 E : : : Bottom el. :

Drilled by: **Heath & Sherwood** Core size: **BQ** Begun: **Feb. 27/83** Ended: **Feb. 28/83** Logged by: **K.H. Darke**

Samples	Footage drilled				Geology
	From	To	Len.	Rec.	
	0	42	42	% 0	OVERBURDEN
	42				FELSIC TUFF: thinly banded (lt. & dk. grey layers); gritty texture; a few quartz eyes & feldspar crystals in a fine-grained crystalline matrix; scattered, thin Quartz-Carbonate strgs.
					47':- Banding @ 36° to core axis. 61':- " @ 34° " " "
		80.8	38.8	100	62':- 1 1/4" healed breccia (fault zone). 67':- 4" " " " "
		80.8	.....	.....	... Contact @ 51° to c.a.
	80.8				Highly Altered MAFIC FLOW (?): chloritic & highly sheared; mottled texture.
		85	4.2	"	84':- Chloritic lineations @ 51° to c.a.
		85	.....	.....	irregular Contact
	85				FELSIC TUFF as before; banded (bedding?).
		90.5	5.5	"	86':- Banding @ 25° to c.a.
		90.5	.....	.....	gradational change; Banding @ 33° to c.a.
	90.5				FELSIC TUFF with thin intercalated beds of dk. grey & black MUDSTONE.
					93':- Bedding @ 35° to c.a. 93-95':- Graphitic Tuff-Mudstone; minor Py. 94':- Bedding @ 35° to c.a. 98.5-99':- Graphitic Tuff-Mudstone; bedding @ 36° to c.a.
		112	21.5	"	102':- 2" " " "
		112	.....	.....	... Contact @ 37° to c.a.; 1/4" Pyrite Strg.
VLF-EM CONDUCT.	112				GRAPHITIC TUFF & intercalated AGGLOMERATE (VOLCANICLASTIC) consisting of angular, elongated, felsic fragments up to 1"; abundant Pyrite in places.
		116	4.0	"	103-04':- 10% Pyrite. 116':- Bedding @ 38° to c.a.
		116	.....	.....	gradational change
	116				FELSIC TUFF; thinly banded.
		120	4.0		117':- Banding (bedding) @ 35° to c.a.
		120	.....	.....	conformable Contact @ 35° to c.a.

KAD

Loc: Dip collar : Bearing collar : Length: 301 ft.
 : : Collar el. :
 : : Bottom el. :

Drilled by: Core size: Begun: Ended: Logged by: KHD

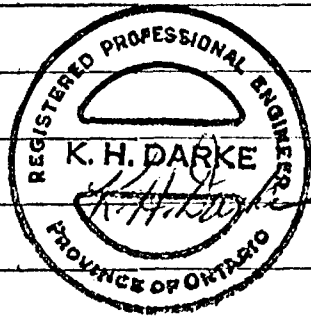
Samples	Footage drilled				Geology
	From	To	Len.	Rec.	
	120			%	GRAPHITIC TUFF & intercalated AGGLOMERATE (VOLCANICLASTIC) containing elongated fragments as before; scattered Pyrite cubes.
		124.2	4.2	100	123':- irregular bedding @ 34° to c.a.
		124.2	.....	.....	... conformable, irregular contact
	124.2				AGGLOMERATE (VOLCANICLASTIC): elongated mafic(black) & intermediate (greyish-green) fragments up to 2" in Chloritic matrix.
		141	16.8	"	132':- Chl. Sch. & elong. fragments @ 30° to c.a.
		141	.....	.....	... Chloritic Contact @ 62° to c.a.
	141				FELSIC TUFF; faint banding (bedding).
		148.4	7.4	"	147':- Banding (bedding) @ 30° to c.a.
		148.4	.....	.....	... conformable Contact @ 31° to c.a.
	148.4				GRAPHITIC TUFF with Pyrite stringers.
		149.4	1.0	"	148.4':- 2" of 30% Py strgs. parallel to bedding.
		149.4	.....	.....	... gradational, conformable contact
	149.4				FELSIC TUFF; faint banding (bedding);
		152	2.6	"	minor disseminated Pyrite cubes in places.
		152	.....	.....	... irregular Contact @ 28° to c.a.; 1" of GRAPHITIC TUFF @ contact.
	152				AGGLOMERATE (VOLCANICLASTIC) with thin intercalated beds of GRAPHITIC TUFF.
		161	9.0	"	156':- Bedding @ 37° to c.a.
		161	.....	.....	... irregular Contact @ 34° to c.a.
VLF-EM CONDUCT.	161				GRAPHITIC TUFF: abundant Graphite in places (core badly broken along Graphitic slips); minor Py; a few Qtz-Carb. stringers.
					162':- Bedding & Sch. @ 30° to c.a.
					164':- " " @ 31° " "
					167':- " " @ 13° " "
		172	11	"	171':- Distinct bedding @ 32° to c.a.
		172	.....	.....	... distinct conformable Contact @ 36° to c.a.;
					15% Py @ contact.

KHD

Loc. Dip collar : Bearing collar : Length: 301 ft.
 : : Collar el. :
 : : Bottom el. :

Drilled by: Core size: Begun: Ended: Logged by: KHD

Samples	Footage drilled				Geology
	From	To	Len.	Rec. %	
172					FELSIC TUFF with a few, thin GRAPHITIC TUFF seams & irregular layers.
					173':- 1/2" conformable Graphitic bed @ 32° to c.a.
					174':- Bedding changes from 29° to 55° to c.a. (probably cross-bedding).
					175.2':- 3" Graphitic Tuff layer with conformable Py strg. @ 50° to c.a.
		175.2	3.2	100	
		175.2	.....	.....	distinct, conformable Contact @ 50° to c.a.
175.2	177.9	2.7	"	"	AGGLOMERATE (VOLCANICLASTIC).
		177.9	.....	.....	Contact ground & broken.
177.9					GRAPHITIC TUFF: 20% Pyrite as irregular fracture fillings & strgs. parallel to bedding.
		180.3	2.4	"	
		180.3	.....	.....	Highly irregular Contact
180.3					Flow Top; bleached in part; Qtz-Carbonate stringers & blebs Py.
		181.3	1.0	"	
181.3					BASALT: black, massive, in part brecciated with Chloritic partings; scattered Q-C strgs.
					261':- fault; 3" broken core with limonite staining.
					274':- Flow Contact (1/2" chilled margin; several amygdules); 2" Chloritic shearing @ 34° to c.a.
		301	119.7	"	288-89':- Chl. fractures @ 41° to c.a.
END	OF	HOLE			



D. D. HOLE No. HR-4

Loc. L. 636738 Dip collar : 45° Bearing collar : Grid West Length: 302 ft.
 30+00 N : : N 54° W Collar el. :
 7+30 W : : Bottom el. :
 Drilled by: Heath & Sherwood Core size: BQ Begun: Mar. 2/83 Ended: Mar. 3/83 Logged by: K.H. Darke

Samples	Footage drilled				Geology
	From	To	Len.	Rec.	
	0	10	10	% 0	OVERBURDEN
	10				Highly Altered BASALT: massive, dark greenish-black, abundant Chlorite alteration.
					69':- 5" core broken; Chl. fault gouge.
					86':- 1" broken core.
				0	91-92':- core ground; fault zone.
				0	116.5':- 2" ground core; " "
					157':- 2" broken core.
VLF-EM	Conductor (?)			0	185-86':- Fault Zone; Hematite staining.
		245	235	0	217-18.5':- core ground; soft, chloritic.
					233.5-235':- 2% scattered Pyrite blebs.
		245	.....	.....	... irregular Contact @ 35° to c.a.
	245	283	37	100	GABBRO: non-magnetic; coarse-grained. (ULTRAMAFIC FLOW?)
		283	.....	.....	... 2" chilled margin (fine-gr., black).
	283	292.9	9.9	"	Highly Altered BASALT: Chloritic.
		292.9	.....	.....	... 1/2" Chilled margin; distinct contact @ 55° to c.a.
	292.9				GABBRO: non-magnetic; coarse-grained;
		296	3.1	"	disseminated Py cubes. (ULTRAMAFIC FLOW?)
		296	.....	.....	... Contact highly irregular (Flow Top); Hematite staining & Qtz-C strgs.
	296				Highly Altered BASALT: dark greenish-black;
		302	6.0	"	Chloritic.
	END	OF	HOLE		



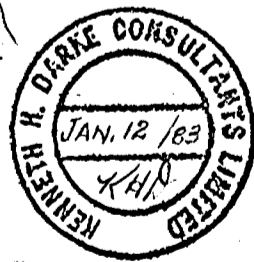
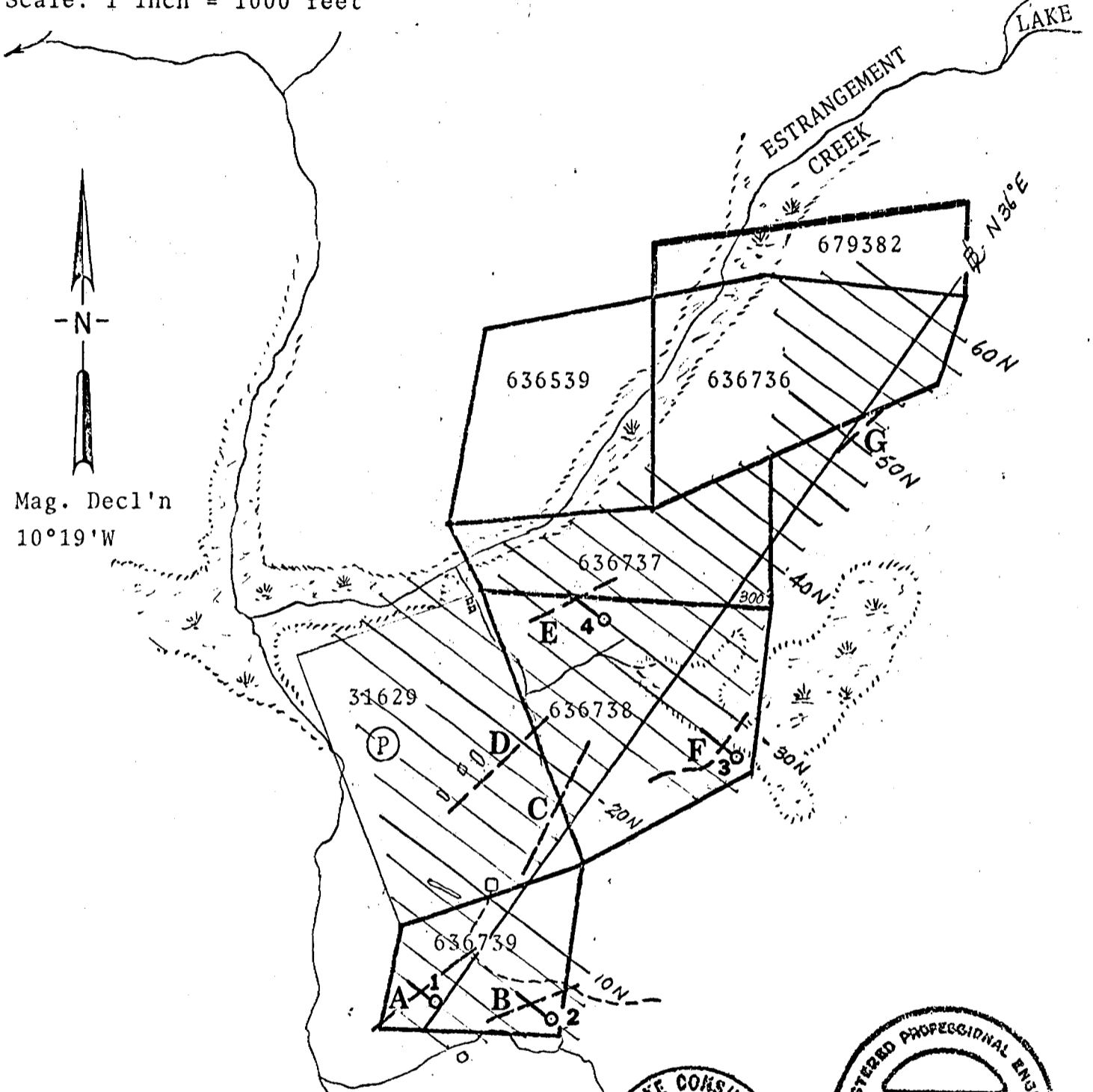
DRILL HOLE LOCATION PLAN
HEMLAR RESOURCE EXPLORATION LTD.
HEARST TOWNSHIP, ONTARIO

GEOPHYSICAL SURVEY GRID &
VLF-EM CONDUCTIVE ZONES

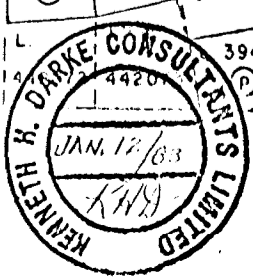
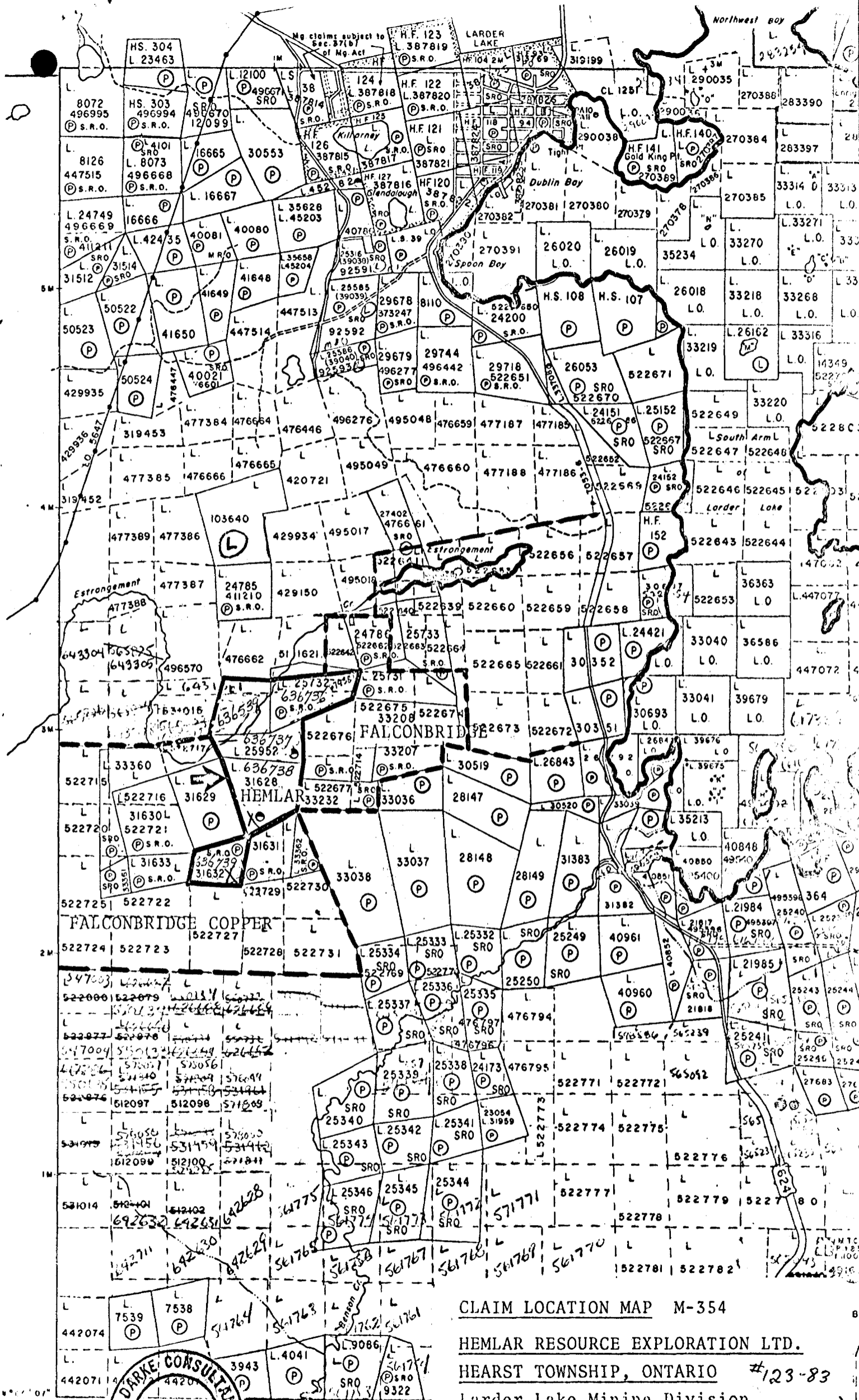
Larder Lake Mining Division
District of Timiskaming

*NOTE:- Control Grid System
shown was established
for Geophysical Surveys
conducted in 1980.

Scale: 1 inch = 1000 feet



MCELROY TWP. M-366



CLAIM LOCATION MAP M-354
 HEMLAR RESOURCE EXPLORATION LTD.
 HEARST TOWNSHIP, ONTARIO #123-83
 Larder Lake Mining Division
 District of Timiskaming (J.A. MORTSON)
 Scale: 1 inch = 2640 feet