DIAMOND DRILL CORE LOG-SUMMARY SHEET

010

Project: Enid Creek -Loveland Township
Date: January 14 to 29, 2001
Logged by: Robert Calhoun
Drilling Co: Colbert Drilling

DDH: EL 25-11

Claim Number: P. 1037160

COLLAR LOCATION: L50030N/10175E

SURVEYS: Acid Test

	Depth	Azimuth	Dip
Setup:	0.0m	300°	-80°

UTM COORDINATES		GRID COORDINATES
Northing:	5388625N	50030N
Easting:	454298E	10175E

Elevation: 0.0 meters
TD: 99.0 meters

DRILLING DATES
Started: January 14, 2001
Finished: January 29, 2001

DIAMOND DRILL SUMMARY LOG

Project: Enid Creek -Loveland Township
Date: January 14, 2001
Logged By: R. F. Calhoun

DDH: EL25-11

GEOLOGIC SUMMARY

FROM	TO	DESCRIPTION	INTERVAL			SIGNIFICANT ASSAY AVERAGES						
(m)	(m)		From (m)	To (m)	Width (m)	Cu ppm	Ni ppm	Co ppm	Pt ppb	Pd ppb	Rh ppb	Au ppb
0.0	3.6	Overburden										
3.6	18.7	Gabbro										
18.7	32.7	Gabbro										
32.7	49.2	Gabbro										
49.2	58.9	Gabbro										
58.9	62.93	Gabbro to Pyroxenite	61.8	62.93	1.13	2411	2498	160	61	231		36
62.93	99.0	Andesite										
	99.0	End of Hole										

COMMENTS

Diamond Drill Log

Property: Enid Creek - Loveland Township
Hole Number: EL25-11
Claim Number: P. 1037160

Location: 50030/10175E
Final Depth: 99 meters
Logged By: Robert Calhoun

Azimuth: 300°
Dates Drilled: January 14-29, 2001
Drilled By: Colbert Drilling

Dip: -80°
Dates Logged: January 16-30, 2001
Signature:

From	To	Description	Assays										
			Sample #	From	To	Length (meter)	Cu ppm	Ni ppm	Co ppm	Pt ppb	Pd ppb	Rh ppb	Au ppb
0.0	3.6	Overburden											
3.6	18.7	Gabbro -medium to coarse grained, equigranular, medium grey green to locally grey. Unit is massive overall with only minor small quartz veins. There are nil to trace sulfides.											
18.7	32.7	Gabbro -medium to finer grained, medium green grey to grey green. The texture of the gabbro is variable with local accumulations of white feldspars nearly forming veins and local sections. Feldspar poor with increased mafic component. The gabbro is interlayered with fine grained possible andesitic sections varying from 10cm to nearly 2m in width. Contacts are generally 75-80° to core axis but can be at 25-30°. Some of the finer sections maybe fine gabbro. Sulfide content is near to trace, increased at lower contact with disseminated pyrrhotite.											
32.7	49.2	Gabbro -medium to coarse grained, colour highly variable due to feldspar accumulations, white to dark green grey in more mafic sections. The unit has a disrupted nature with sulfides increased in feldspar zones and higher disrupted sections. Sulfides are nil to trace to 2-3% as pyrrhotite, minor pyrite and chalcopyrite. The chalcopyrite mainly occurs as inclusions or exsolutions in pyrrhotite but can occur as fine disseminations.											
		32.7-33.9m -pyrrhotite, pyrite, chalcopyrite 2-3%, <0.5% chalcopyrite	52577	32.7	33.9	1.2	1730	1030	87	33	142		26
		33.9-34.7m -1% pyrrhotite, chalcopyrite minor	52578	33.9	34.7	0.8	314	257	33	9	10		3
		34.7-36.0m -minor pyrrhotite to 1%, chalcopyrite as fine disseminations <0.5%	52579	34.7	36.0	1.3	212	160	26	<5	<5		5
		39.8-40.8m -2-3% pyrrhotite, <0.5% chalcopyrite	52580	39.8	40.8	1.0	717	462	51	<5	22		3
		40.8-41.9m -3-4% pyrrhotite, <0.5% chalcopyrite	52581	40.8	41.9	1.1	1300	505	53	7	31		7

Diamond Drill Log

Hole # EL25-11

From	To	Description	Sample #	From	To	Length (meter)	Assays Cu ppm	Ni ppm	Co ppm	Pt ppb	Pd ppb	Rh ppb	Au ppb
		41.9-42.9m -<2% pyrrhotite, minor chalcopyrite mainly associated with 15cm quartz vein.	52582	41.9	42.9	1.0	708	785	67	29	182		10
		45.0-49.2m -patchy feldspars to accumulates over 10-20cm, sulfides trace.											
49.2	58.9	Gabbro -fine to medium grained, medium green to green grey. Feldspars are small but abundant saussauritized pale green. Section is highly broken to crushed. Pyrrhotite occurs as infrequent nodular occurrences.											
58.9	62.93	Gabbro to Pyroxenite -fine to medium grained, medium green with saussauritized feldspars more abundant mafic minerals. Sulfides of pyrrhotite increase in this section as disseminations and blebs.											
		61.9-62.85m -sulfides increase to 1-2% as blebs of pyrrhotite with exsolutions of chalcopyrite.	52583	61.8	62.7	0.9	942	1230	83	55	134		41
		62.85-62.93m -7cm, massive pyrrhotite with chalcopyrite 2-3% as veinlets, exsolutions.	52584	62.7	62.93	0.23	8160	7460	459	86	610		17
62.93	99.0	Andesite -medium grained at contact to mainly fine grained below 69.8. The contact area to 67m has dark siliceous amygdules, white feldspar amygdules (<1mm) and has fine disseminated minor chalcopyrite.											
		69.8-71.9m -dark siliceous amygdules continue with minor feldspar rich vesicules and fracture fillings.											
		71.9-78.0m -medium green grey generally fine grained with local calcite veins and smaller quartz veins. This section may also have minor graphite in matrix at 74.5-78.0m, not conductive.											
		78.0-99.0m -fine grained, grey green with local feldspar amygdules, feldspar/quartz veinlets locally in parallel fracture fillings <5cm apart to form "layered texture". There are random quartz veins to <5cm.											
	99.0	End of Hole											

DIAMOND DRILL CORE LOG-SUMMARY SHEET

Project: Enid Creek -Loveland Township
Date: December 13 to 16, 2000
Logged by: Robert Calhoun
Drilling Co: Colbert Drilling

DDH: EL25-10

Claim Number: P. 1037160

COLLAR LOCATION: L50030N/10175E

SURVEYS: Acid Test

	Depth	Azimuth	Dip
Setup:	0.0m	300°	-55°
	96.0m		-51°

UTM COORDINATES		GRID COORDINATES
Northing:	5388625N	50030N
Easting:	454298E	10175E

Elevation: 0.0 meters
TD: 96.0 meters

DRILLING DATES
Started: December 13, 2000
Finished: December 16, 2000

DIAMOND DRILL SUMMARY LOG

Project: Enid Creek -Loveland Township
Date: December 13, 2000
Logged By: R. F. Calhoun

DDH: EL25-10

GEOLOGIC SUMMARY

FROM	TO	DESCRIPTION	INTERVAL			SIGNIFICANT ASSAY AVERAGES						
(m)	(m)		From (m)	To (m)	Width (m)	Cu ppm	Ni ppm	Co ppm	Pt ppb	Pd ppb	Rh ppb	Au ppb
0.0	3.5	Overburden										
3.5	33.1	Gabbro										
33.1	35.3	Andesite										
35.3	49.7	Gabbro										
49.7	56.8	Gabbro-mineralized										
56.8	63.6	Gabbro	58.5	60.0	1.5	2480	1540	112	27	281		14
			60.0	61.5	1.5	2920	1510	107	45	326		21
			61.5	62.5	1.0	1760	1080	94	27	144		21
			62.5	63.1	0.6	3590	1970	113	53	276		22
63.6	72.8	Pyroxenite										
72.8	74.9	Pyroxenite	72.8	73.3	0.5	5430	2030	123	33	272		29
			73.3	74.1	0.8	3190	3000	234	31	178		614
			74.1	74.9	0.8	9200	4170	306	33	211		31
74.9	80.3	Gabbro										
80.3	96.0	Andesite										
	96.0	End of Hole										

COMMENTS

Diamond Drill Log

Property: Enid Creek - Loveland Township

Location: L50030N/10175E

Azimuth: 300°

Dip: -55°

Hole Number: EL25-10

Final Depth: 96.0 meters

Dates Drilled: December 13 to 16, 2000

Dates Logged: December 15 to 17, 2000

Claim Number: P. 1037160

Logged By: Robert Calhoun

Drilled By: Colbert Drilling

Signature:

From	To	Description	Sample #	From	To	Length (meter)	Assays Cu ppm	Ni ppm	Co ppm	Pt ppb	Pd ppb	Rh ppb	Au ppb
0.0	3.5	Overburden											
3.5	33.1	Gabbro -medium to coarse grained, medium grey green to green grey down section. There are several fine grained grey green sections especially between 9.4m and 15.1m. These are possible andesite inclusions, up to 1m in width. 3.5-14.2m -grey green with hazy feldspars edges diffuse, several grey green finer grained sections. 14.2-33.0m -green grey with well developed white feldspars and local accumulates. There are small andesite inclusions with one larger section from 27.8-29.0m.											
33.1	35.3	Andesite -fine grained, light to medium green with light green colour due to probable epidote alteration. Upper contact of the unit is 80° to core axis while the lower contact is gradational into gabbro.											
35.3	49.7	Gabbro -medium to coarse grained, colour variable due to feldspar content as noted below. The unit becomes mineralized locally. 35.3-37.6m -gabbro -green with abundant white feldspars, locally in patches and the unit appears disrupted, altered. 37.6-39.3m -medium to coarse grained, medium to dark green, possible pyroxenite with the unit composed of coarse grained mafic minerals. This section has mineralization of pyrrhotite/chalcopyrite minor to <1% to 39.0m. From 39.0-39.3m sulfides are up to 5-8% with <1% chalcopyrite. Lower contact of unit sharp, 85° to core axis. 39.3-41.3m -gabbro as above with patchy feldspars, to masses. Sulfides are minor	52537	37.6	39.0	1.4	167	204	30	5	7		12
			52538	39.0	39.3	0.3	1870	1060	65	<5	55		21
			52539	39.3	40.3	1.0	431	267	26	<5	9		10
			52540	40.3	41.3	1.0	96	118	21	<5	7		5

Diamond Drill Log

Hole # EI25-10

From	To	Description	Sample #	From	To	Length (meter)	Assays Cu ppm	Ni ppm	Co ppm	Pt ppb	Pd ppb	Rh ppb	Au ppb
		1% pyrrhotite, minor chalcopyrite											
		41.3-42.7m -pyroxenite layer as above but with local feldspar patches. Sulfides are 1-3% pyrrhotite, minor chalcopyrite.	52541	41.3	42.7	1.4	278	228	34	9	10		2
		42.7-44.5m -andesite inclusion with gabbroic layering, sulfides are generally minor, concentrating in the gabbroic layer.	52542	42.7	44.5	1.8	269	143	25	<5	<5		19
		44.5-45.7m -pyroxenite layer with 2-3% pyrrhotite, <0.5% chalcopyrite	52543	44.5	45.7	1.2	1590	1070	117	14	34		14
		45.7-46.6m -feldspar accumulate layer with 70% white feldspars as masses, minor sulfides.	52544	45.7	46.6	0.9	232	188	22	7	5		nil
		46.6-48.1m -pyroxenite layer with 2-3% sulfides of pyrrhotite and minor chalcopyrite. There is a concentration of sulfides at the lower contact. 5-8% pyrrhotite and <1% chalcopyrite 47.8-48.1m.	52545	46.6	47.6	1.0	692	455	55	<5	14		nil
			52546	47.6	48.1	0.5	1350	947	79	<5	31		nil
		48.1-49.7m -section begins with coarse accumulate of feldspars as well developed laths to 7mm x 3mm, maybe up to 1cm, giving way to feldspar patches to 60% of unit to finer grained gabbro at end of section. There is little mineralization in the upper section of unit increasing down section to 1-3% from 49.1-49.7m.	52547	48.1	49.1	1.0	364	246	28	12	9		nil
			52548	49.1	49.7	0.6	1380	476	55	15	15		7
49.7	56.8	Gabbro -mineralized											
		-medium to coarse grained, medium grey green to green grey. This section is dominantly feldspar as patches, masses and lesser well developed crystals. The light grey green colour is due to alteration and the abundance of feldspars. The unit is fairly consistently mineralized with pyrrhotite and chalcopyrite with lesser pyrite. The pyrrhotite occurs as clots, masses, and matrix disseminations. Chalcopyrite is usually exsolutions in pyrrhotite, fine disseminations and lesser clots or blebs e.g. 53.95m. Total sulfide 3-5% with local 5-8% over 20-30cm. Chalcopyrite is generally <1% but can be greater than 1% over the same 20cm as at 53.95m. Pyrite is as laminae on fractures.	52549	49.7	51.0	1.3	2020	1210	111	22	55		10
			52550	51.0	51.5	0.5	2570	1280	118	9	82		81
			52551	51.5	52.5	1.0	651	502	62	14	36		9
			52552	52.5	53.5	1.0	3050	1090	101	31	77		14
			52553	53.5	54.1	0.6	2460	1150	100	33	81		17
			52554	54.1	55.5	1.4	1260	977	92	<5	60		7
			52555	55.5	56.8	1.3	3410	1930	186	31	96		15
56.8	63.6	Gabbro											
		-this section is variable and broken, crushed core is common, fine to medium grained, dark green with feldspars, saussauritized medium green. There are coarse grained patches of feldspars. Mineralization is pyrrhotite, pyrite and minor chalcopyrite. The sulfides are highly variable from trace to 1-3%. Local 3-5% as clots, disseminations and rare veinlets, e.g. 61.4m chalcopyrite veinlet.	52556	56.8	58.5	1.7	1600	1120	103	29	161		5
			52557	58.5	60.0	1.5	2480	1540	112	27	281		14
			52558	60.0	61.5	1.5	2920	1510	107	45	326		21
			52559	61.5	62.5	1.0	1760	1080	94	27	144		21
			52560	62.5	63.1	0.6	3590	1970	113	53	276		22
			52561	63.1	63.6	0.5	2170	1460	99	15	185		10
63.6	72.8	Pyroxenite											
		-fine to medium grained, dark green to locally green grey. There are minor sections of coarser grained feldspar with the feldspars green, saussauritized. The sulfide content is highly variable but does not exceed 3% over short sections. The sulfides are dominated by pyrrhotite but pyrite can form laminae on fractures. There is minor serpentine on some fractures. Lighter green, fibrous. The unit is locally magnetic, weak to moderate.	52562	63.6	65.1	1.5	498	432	53	10	39		2
			52563	65.1	66.0	0.9	1320	957	79	14	89		19
			52564	66.0	67.0	1.0	788	562	50	5	77		15
			52565	67.0	68.0	1.0	2130	1100	82	27	149		29
			52566	72.0	72.8	0.8	1340	936	74	26	105		14

Diamond Drill Log

Hole # EL 25-10

From	To	Description	Assays										
			Sample #	From	To	Length (meter)	Cu ppm	Ni ppm	Co ppm	Pt ppb	Pd ppb	Rh ppb	Au ppb
72.8	74.9	Pyroxenite -possible andesite, fine to medium grained, medium to dark green grey with local feldspars. The sulfides in this section are pyrrhotite, pyrite and chalcopyrite 72.8-73.3m -masses, veinlets, disseminations of pyrrhotite with clots, blebs of chalcopyrite especially near/at upper contact associated with patch of feldspar/quartz. 73.3-74.1m -fracture fillings, blebs of pyrrhotite, pyrite with <0.5% chalcopyrite. 74.1-74.9m -this section begins with semi massive pyrrhotite/pyrite with blebs of chalcopyrite to 74.5m. The lower section is dominantly large clots of chalcopyrite to 2cm radius and minor fracture fillings.	52567 52568 52569	72.8 73.3 74.1	73.3 74.1 74.9	0.5 0.8 0.8	5430 3190 9200	2030 3000 4170	123 234 306	33 31 33	272 178 211		29 614 31
74.9	80.3	Gabbro -fine to medium grained, medium grey green with diffuse feldspars, local masses. There as small feldspar veinlets locally. Sulfides are nil to trace.											
80.3	96.0	Andesite fine grained, medium grey, locally bleached with whitish veinlets at high angles to core axis. The unit is locally vesicular with vesicules to 0.4cm in diameter e.g. 94.4-95.0m. Sulfides are nil. Unit has local porphyritic feldspars.											
	96.0	End of Hole											
		Acid Test 96m -51°											

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

GEOSCIENCE ASSESSMENT OFFICE
933 RAMSEY LAKE ROAD, 6th FLOOR
SUDBURY, ONTARIO
P3E 6B5

Tel: (888) 415-9845
Fax:(877) 670-1555

Date: 2001-MAY-22

FALCONBRIDGE LIMITED
SUITE 1200, 95 WELLINGTON STREET WEST
TORONTO, ONTARIO
M5J 2V4 CANADA

Submission Number: 2.21060
Transaction Number(s): W0160.00154

Dear Sir or Madam

Subject: Approval of Assessment Work

We have approved your Assessment Work Submission with the above noted Transaction Number(s). The attached Work Report Summary indicates the results of the approval.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

If you have any question regarding this correspondence, please contact LUCILLE JEROME by email at lucille.jerome@ndm.gov.on.ca or by phone at (705) 670-5858.

Yours Sincerely,

Ron Gashinski
Supervisor, Geoscience Assessment Office

Cc: Resident Geologist

Falconbridge Limited
(Claim Holder)

Moneta Porcupine Mines Inc.
(Claim Holder)

Assessment File Library

Falconbridge Limited
(Assessment Office)

42A12NE2025 2.21060 LOVELAND 900

Work Report Summary

Transaction No: W0160.00154 **Status:** APPROVED
Recording Date: 2001-APR-24 **Work Done from:** 2000-DEC-13
Approval Date: 2001-MAY-02 **to:** 2001-JAN-29

Client(s):

130679 FALCONBRIDGE LIMITED
171667 MONETA PORCUPINE MINES INC.

Survey Type(s):

ASSAY PDRILL

Work Report Details:

Claim#	Perform	Perform Approve	Applied	Applied Approve	Assign	Assign Approve	Reserve	Reserve Approve	Due Date
P 1037160	$12,365	$12,365	$0	$0	$9,200	9,200	$3,165	$3,165	2002-MAY-26
P 1224317	$0	$0	$400	$400	$0	0	$0	$0	2001-OCT-23
P 1224318	$0	$0	$400	$400	$0	0	$0	$0	2001-OCT-23
P 1224319	$0	$0	$400	$400	$0	0	$0	$0	2001-OCT-23
P 1227651	$0	$0	$2,400	$2,400	$0	0	$0	$0	2001-OCT-23
P 1227652	$0	$0	$2,400	$2,400	$0	0	$0	$0	2001-OCT-23
P 1227653	$0	$0	$3,200	$3,200	$0	0	$0	$0	2001-OCT-23
	$12,365	$12,365	$9,200	$9,200	$9,200	$9,200	$3,165	$3,165	

External Credits: $0

Reserve:

$3,165 Reserve of Work Report#: W0160.00154

$3,165 Total Remaining

Status of claim is based on information currently on record.

MINISTRY OF NORTHERN DEVELOPMENT AND MINES

PROVINCIAL MINING RECORDER'S OFFICE

MINING LAND TENURE MAP

Date / Time of Issue May 7 2001 10:35h Eastern

TOWNSHIP / AREA	PLAN
LOVELAND	M-0293

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division	Porcupine
Land Titles/Registry Division	COCHRANE
Ministry of Natural Resources District	TIMMINS

TOPOGRAPHIC

LAND TENURE

LAND TENURE WITHDRAWALS

IMPORTANT NOTICES

LAND TENURE WITHDRAWAL DESCRIPTIONS

Identifier	Type	Date	Description
2160	Water	Jun 1 2001	NOTLEY LOW ALL RIGHTS RESERVATION ALONG THE SHORES OF ALL LAKES AND RIVERS

IMPORTANT NOTICES

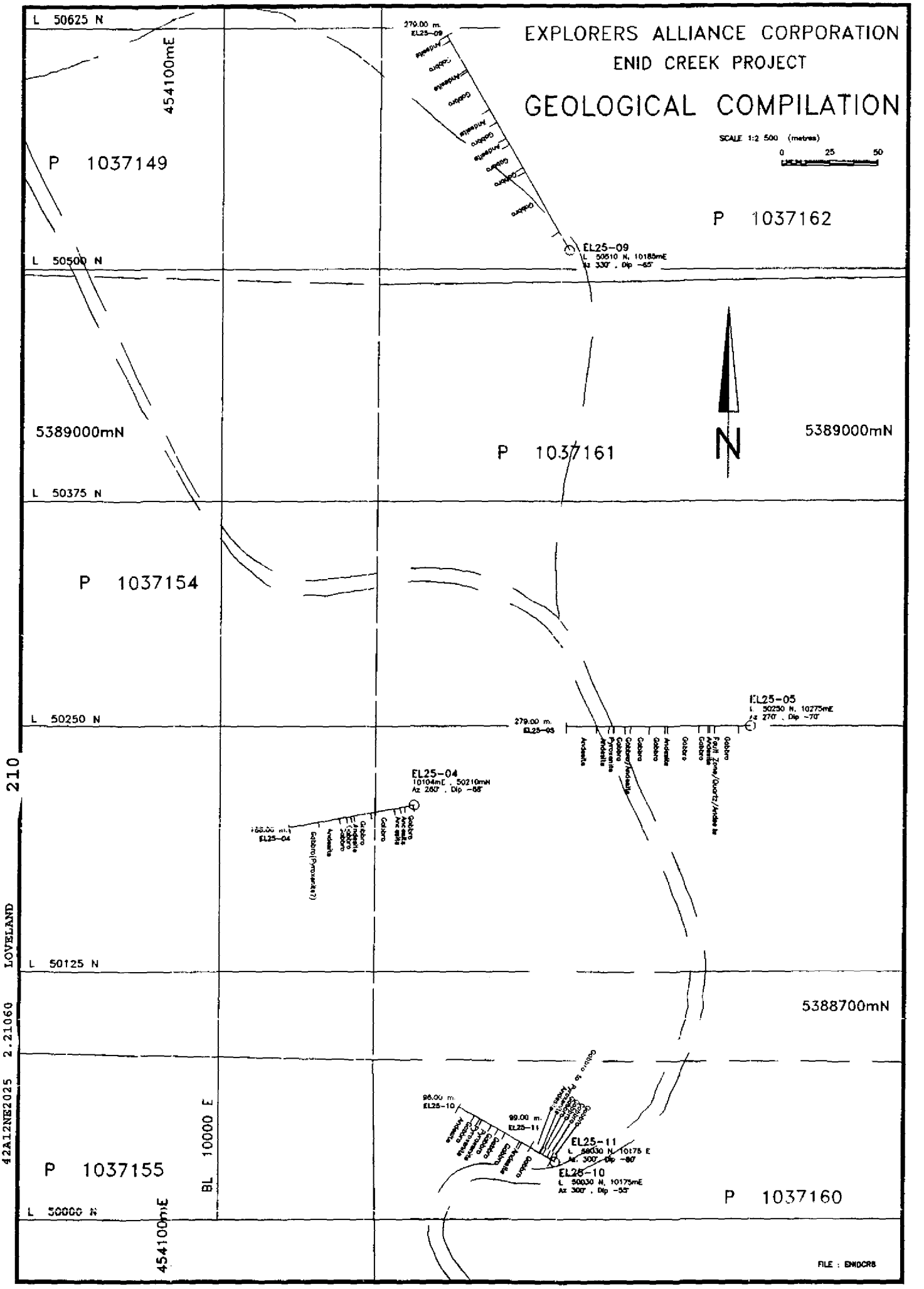
Areas within which special regulations, restrictions or conditions exist that affect mineral prospecting, staking and mineral development activities.

2.21060
PDRILL

42A12NE2025 2.21060 LOVELAND

200

General Information and Limitations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ENID CREEK PROJECT
GEOLOGICAL COMPILATION
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L 50500 N
L 50375 N
L 50250 N
L 50125 N
L 50000 N
454100mE
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5388700mN
P 1037149
P 1037162
P 1037161
P 1037154
P 1037155
P 1037160
N
EL25-09
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279.00 m.
EL25-09
EL25-05
L 50250 N, 10275mE
Az 270° , Dip -70°
EL25-04
10104mE , 50210mN
Az 260° , Dip -65°
EL25-11
L 50030 N, 10175 E
Az 300° , Dip -80°
EL25-10
L 50030 N, 10175mE
Az 300° , Dip -55°
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LOVELAND
42A12NE2025 2.21060
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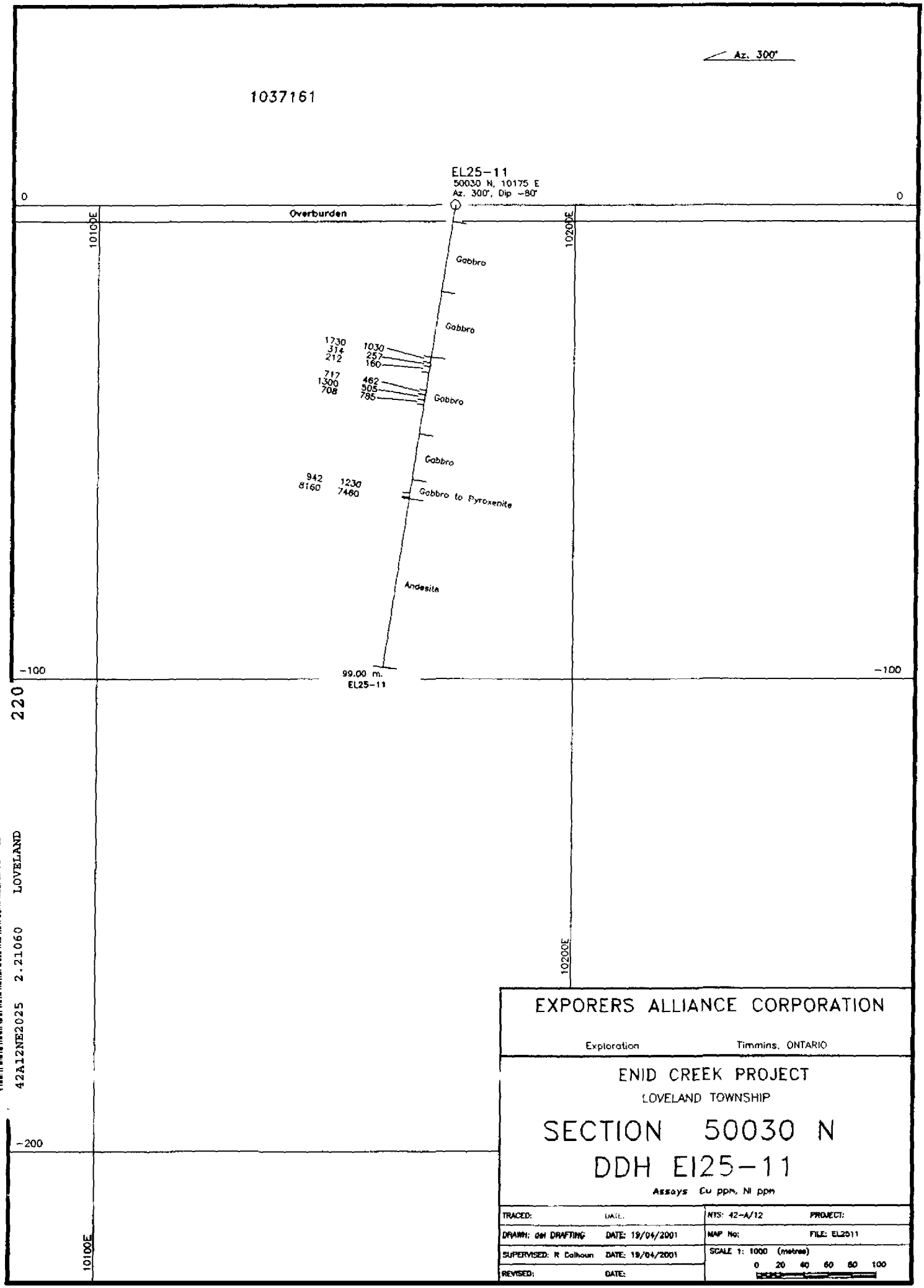
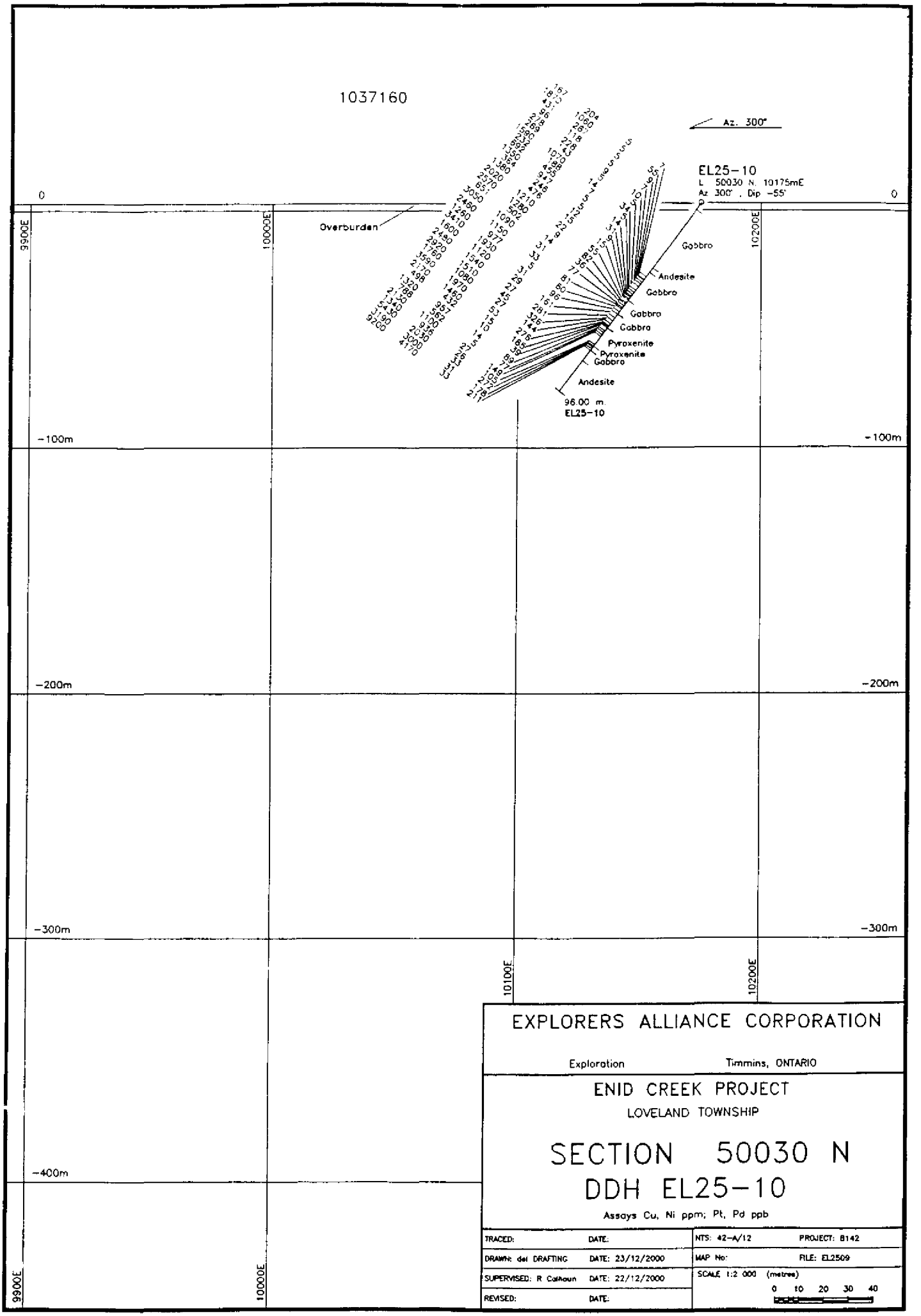

Az. 300°
1037161
EL25-11
50030 N, 10175 E
Az. 300°, Dip -80°
0
0
Overburden
10100E
10200E
Gabbro
Gabbro
1730
314
212
1030
257
160
717
1300
708
462
505
785
Gabbro
Gabbro
942
8160
1230
7460
Gabbro to Pyroxenite
Andesite
-100
99.00 m.
EL25-11
-100
220
-200
10100E
10200E
42A12NE2025 2.21060 LOVELAND
EXPORERS ALLIANCE CORPORATION
Exploration
Timmins, ONTARIO
ENID CREEK PROJECT
LOVELAND TOWNSHIP
SECTION 50030 N
DDH EI25-11
Assays Cu ppm, Ni ppm
TRACED:
DATE:
DRAWN: dH DRAFTING
DATE: 19/04/2001
SUPERVISED: R Calhoun
DATE: 19/04/2001
REVISED:
DATE:
NTS: 42-A/12
PROJECT:
MAP No:
FILE: EL2511
SCALE 1: 1000 (metres)
0 20 40 60 80 100



EXPLORERS ALLIANCE CORPORATION

Exploration Timmins, ONTARIO

ENID CREEK PROJECT

LOVELAND TOWNSHIP

SECTION 50030 N
DDH EL25-10

Assays Cu, Ni ppm; Pt, Pd ppb

TRACED:	DATE:	NTS: 42-A/12	PROJECT: 8142
DRAWN: del DRAFTING	DATE: 23/12/2000	MAP No:	FILE: EL2509
SUPERVISED: R Calhoun	DATE: 22/12/2000	SCALE 1:2 000 (metres)	0 10 20 30 40
REVISED:	DATE:		