

42A06NW2025 2.20504 OGDEN

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Report of Work
Geology of Claims 1205822, 1213116 and 1228640
Ogden Township Project

Echo Bay Mines Ltd.

Timmins, Ontario
August 14, 2000

Paul Degagne
Project Geologist

Summary

Two days were spent mapping and sampling claims 1213116, 1205822, and 1228640, located in the northeast section of Ogden Township. An additional half day was spent collecting additional samples of an auriferous quartz-feldspar porphyry located on the east end of claim 1205822.

The three contiguous claims are situated approximately 600 meters north of Echo Bay's Ogden Township Property and lie immediately west of the Kennilworth Mine, a past producer of 50,000 ounces of gold.

Outcrop on the property is limited to a small hill of carbonated and fractured feldspar +/- quartz porphyry located on claim 1205822. Nine grab samples were collected from the outcrop, returning up to 1.0 gpt Au. An additional 15 sample were collected systematically across the porphyry, and although slightly anomalous, failed to return values greater than 1000 ppb Au. The porphyry appears to be one of several porphyritic bodies that have intruded into a mixed package of mafic and ultramafic volcanic rocks deposited immediately north of the Porcupine – Destor fault in Ogden Township. These porphyries are spatially associated with significant gold mineralization at the Kennilworth mine to the east, and at the Thomas Ogden Gold Mines showing to the west.

The claims have been drilled in the past with a minimum of seven drill holes. These holes generally tested the volcanic stratigraphy but failed to adequately test the volcanic–porphyry contact.

Future exploration should be focussed along this contact to test for economic gold mineralization.



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Introduction

On June 14 and 15, 2000, claims 1213116, 1205822, and 1228640 located in the northeast section of Ogden Township were mapped and sampled at a scale of 1:5,000. After an initial 9 samples of a quartz porphyry located on claim 1205822 returned significantly anomalous gold values, an additional half day (July 15th) was spent collecting 15 additional samples across the outcrop.

The porphyry appears to be one of several auriferous quartz porphyry units that have intruded into a mixed package of mafic and ultramafic volcanic rocks deposited immediately north of the Porcupine – Destor fault in Ogden Township. These porphyries are spatially associated with significant gold mineralization at the Kennilworth mine to the east, and at the Thomas Ogden Gold Mines showing to the west.

Results of the survey are reported herein.

Property Description

The property consists of three contiguous un-patented mining claims (4 units) numbered 1213116, 1205822, and 1228640.

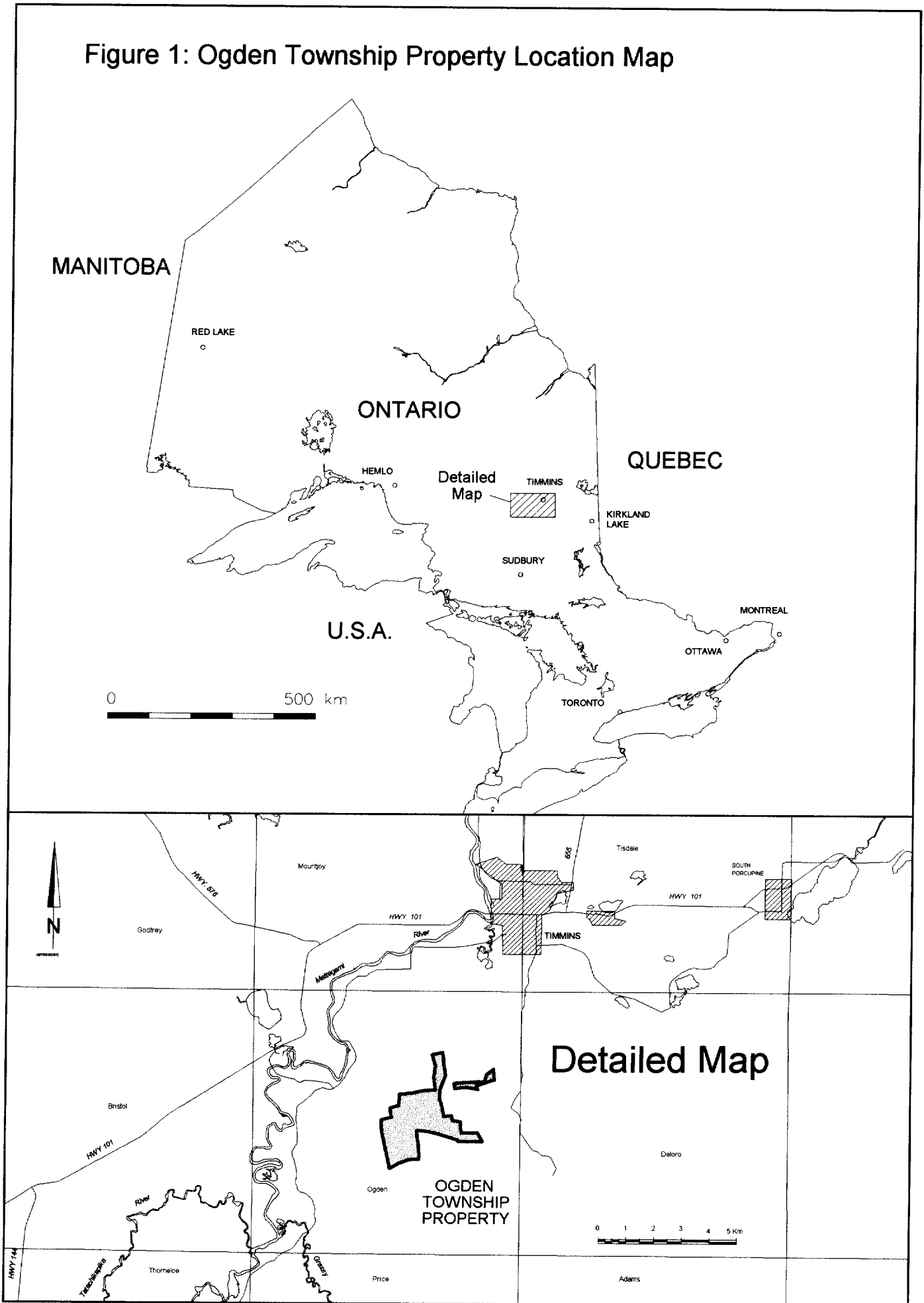
All claims are currently registered to Echo Bay Mines Ltd. of Timmins, Ontario.

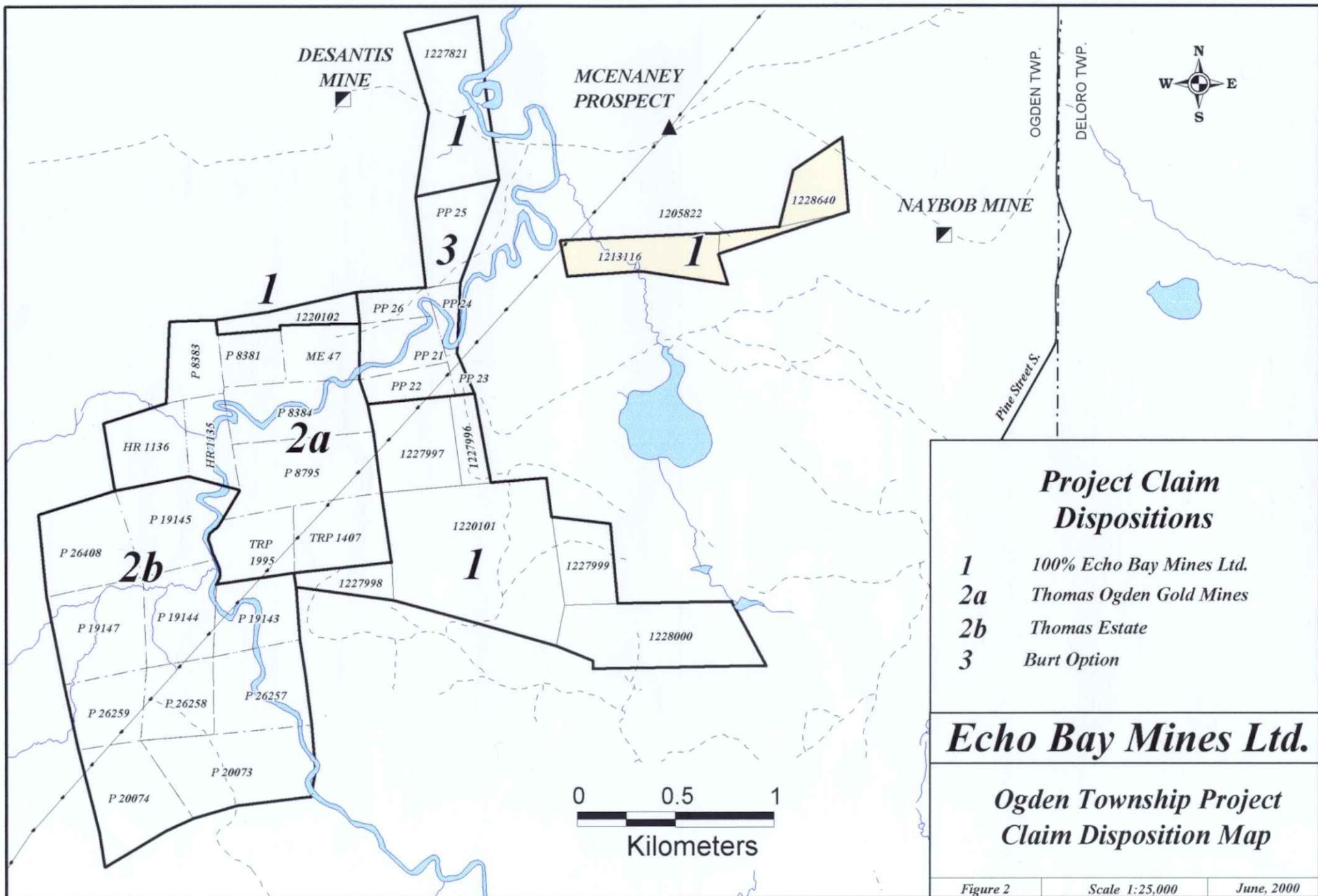
Location and Access

The claims are located in the northeast quadrant of Ogden Township, approximately 6 kilometers south of the city of Timmins, Ontario.

Access to the property is via a gravel road, which intersects Pine Street South approximately 6 kilometers south of Timmins. This gravel road crosses the northeast corner of claim 1228640. To the west, the same road intersects a hydroelectric transmission line, which crosses the northwest tip of claim 1213116, 700 meters to the southwest.

Figure 1: Ogden Township Property Location Map





DESANTIS MINE

MCENANEY PROSPECT

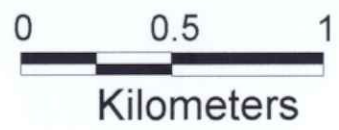
NAYBOB MINE

OGDEN TWP.

DELORO TWP.



Pine Street S.



Echo Bay Mines Ltd.

Ogden Township Project Claim Disposition Map

Personnel

Paul Degagne completed the fieldwork, report writing and the drafting of the maps for the report. Dean Humphry of Timmins assisted the author by spending one day refurbishing the grid, prospecting and locating / attempting to locate claim posts.

Previous Work

Ogden Township was first staked and prospected shortly after the discovery of gold in the Timmins area in 1909. Significant gold production from nearby mines dates to the 1930's when the Buffalo-Ankerite and Delnite mines were brought into production.

The first detailed government geology map was produced by Hurst (1938). Previous to this, area mapping and showing examinations had been performed by Burrows (1912) and Hawley (1926). Open file Report 5012 by Carlson (1967) gives a detailed description of the geology and various mining properties in Ogden, Deloro and Shaw Townships.

Within one kilometer of Echo Bay's Ogden claim blocks, three properties (Naybob, DeSantis and McEnaney) have had underground development and two of these (Naybob and Desantis) have had a limited production of gold.

The following lists previous work performed on the three claims covered in this report, as documented in the MNDM's assessment office in Timmins:

1939:

Assessment File T-327

McEnaney Gold Mines Ltd. drilled 5 holes on the present claims. Two holes were collared on claim 1228640 and intersected mafic and ultramafic flows and minor tuff and sediments. Three holes were collared to the north of claim 1205822 and drilled to the south, transecting the claim. All three holes intersected talc-rich volcanic rocks.

1984:

Assessment File T-2768

L. Bonney drilled two holes totalling 202 feet on what is now claim 1205822. The holes were drilled to test a large outcrop of quartz-feldspar porphyry. Both holes intersected porphyry with abundant quartz veining and minor sulphides. No sample results were included with the drill logs.

1984

Assessment File T-2977

In 1984, Noranda Exploration drilled hole MJ-84-05 on what is now claim 1213116. The hole, which intersected talc-chlorite schist, was drilled at an azimuth of 235 degrees to a depth of 264 meters.

In 1988, Noranda completed a magnetometer and VLF-EM survey on what is now claim 1228640. Mapping was completed on this claim in 1989.

Assessment File T-4060

A grid was cut and a magnetometer survey completed over the claims by Echo Bay Mines Limited in 1998.

Regional Geology

The property and surrounding area forms part of the southern portion of the Abitibi Greenstone Belt of the Superior Geological Province. In the southern Abitibi, metavolcanic and associated metasedimentary rocks and synvolcanic peridotitic to granodioritic bodies have been intruded by large volumes of younger aged tonalitic-granodiorite batholiths and later by granite, feldspar +/- quartz porphyry and syenite intrusives. During and after this period of magmatism, alluvial-fluvial clastic metasedimentary rocks and alkalic metavolcanic rocks were formed and now are spatially associated with regional, steeply dipping shear zones such as the Porcupine-Destor Fault Zone. The metamorphic grade of the supracrustal rocks is generally sub-greenschist to greenschist facies but reach amphibolite facies near the margins of the larger intrusions.

The volcanic rocks in the Timmins area have been subdivided into two groups; the older Deloro Group and the Tisdale Group, which by definition are separated by the 070° trending Destor-Porcupine Fault. The third major group of rocks in the Timmins area is the Porcupine Group, which is composed of clastic sediments. The Porcupine Group is thought to have formed during a period that overlaps with the formation of both the Deloro and Tisdale Groups.

The Deloro Group is made up primarily of mafic, intermediate and felsic metavolcanics. Narrow but laterally continuous units of iron formation are hosted within the intermediate to felsic metavolcanics proximal to the Tisdale Group contact. The Tisdale Group is composed primarily of ultramafic to mafic metavolcanics with only a minor felsic component. Compositionally, the Deloro Group is calc-alkaline in nature whereas the Tisdale Group is tholeiitic to ultramafic.

Within the property area, small felsic intrusions, usually quartz-feldspar porphyries or very fine grained felsite intrude the above rocks. Proterozoic aged diabase dykes cut all rock types in the area.

Property Geology

Mapping of the claims were performed on June 14 and 15, 2000 on a previously established grid consisting of 100 meter spaced wing lines with 25 meter picketed stations on each line.

The only outcrop on the property is located on TL 100N between lines 11E and 12E. This outcrop consists of a large hill of variably altered feldspar +/- quartz porphyry intruded by numerous quartz and carbonate stringers and veins. The porphyry exhibits weak to moderate pervasive sericite and carbonate alteration with generally trace to nil disseminated to cubic pyrite. Alteration of the porphyry is most intense on the east half, where fracturing, quartz veining and brecciation are common. A pit measuring 3 x 3 meters was located at 95N / 1205E on the east end of the outcrop.

Claim 1228640 is underlain by thick sand with mature jackpine growth. Mixed alder poplar and spruce underlie much of the remaining claims with the exception of a large area of wet grass and open water centered on claim 1213116.

Based on previous drilling, claim 1213116 and most of 1205822 are underlain by ultramafic flows (talc-chlorite schist), while claim 1228640 is underlain by ultramafic flows in the south, giving way to argillaceous sediments and mafic flows / tuff to the north.

An initial nine grab samples of quartz-feldspar porphyry were collected from the outcrop area including two from the pit. All samples were analyzed by Bondar Clegg Laboratories for gold, 35 element I.C.P., and wholerock analysis. Results are appended.

Several samples returned anomalous gold values greater than 100 ppb, including sample 34526, which returned 1.0 gpt. The higher gold values generally correspond to the more intensely altered samples (carbonate and sericite) with quartz stringers. Sample 34526 contained approximately 30% quartz.

After the initial results were received, an additional fifteen samples were collected systematically across the porphyry outcrop in a north-south direction. Sporadic anomalous gold values of up to 211 ppb were returned from the sampling.

Geochemical analysis shows locally elevated potassium and / or sodium values indicating alkali metasomatism of the porphyry body.

Conclusions

A mapping program of the three claim property identified a single outcrop consisting of altered quartz-feldspar porphyry. Grab samples from this porphyry unit returned anomalous gold values of up to 1.0 gpt Au. An assessment file search of old drill holes suggests that the remainder of the claims are underlain by talc-chlorite schist in the south and mafic flows and tuff to the north. These two units are separated by a thin package of graphitic argillite which trends approximately east-west through the lower part of claim 1228640.

The altered porphyry is one of several porphyry bodies associated with significant gold mineralization in the Kennilworth mine area. Although the claims have been drilled by a minimum of seven holes, the porphyry-volcanic contact has not been adequately tested. Future work on the claims should consist of drill testing this contact for economic gold mineralization.

Respectfully submitted,



Paul Degagne
Project Geologist – Echo Bay Mines Ltd.

Timmins, Ontario
August 14, 2000

Appendix I

Assay / Geochemical Certificates



CHIMITEC
BONDAR CLEGG



Rapport Lab Geochimie Geochemical Lab Report

REPORT: T00-57217.0 (COMPLETE)

REFERENCE:

CLIENT: ECHO BAY MINES

SUBMITTED BY: P.DESGAGNE

PROJECT: 737

DATE RECEIVED: 19-JUN-00 DATE PRINTED: 25-JUL-00

DATE APPROVED	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD	SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER	
000621	1 Au30	Gold	9	5 PPB	Fire Assay of 30g	30g Fire Assay - AA	ROCK	9	-150	9	CRUSH, SPLIT PULVERIZATION	9
000621	2 Ag	Silver	9	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						9
000621	3 Cu	Copper	9	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						9
000621	4 Pb	Lead	9	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	REPORT COPIES TO: MR PAUL DEGAGNE			INVOICE TO: MR PAUL DEGAGNE		
000621	5 Zn	Zinc	9	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	6 Mo	Molybdenum	9	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	7 Ni	Nickel	9	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	8 Co	Cobalt	9	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	9 Cd	Cadmium	9	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	10 Bi	Bismuth	9	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	11 As	Arsenic	9	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	12 Sb	Antimony	9	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	13 Fe	Iron	9	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	14 Mn	Manganese	9	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	15 Te	Tellurium	9	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	16 Ba	Barium	9	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	17 Cr	Chromium	9	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	18 V	Vanadium	9	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	19 Sn	Tin	9	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	20 W	Tungsten	9	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	21 La	Lanthanum	9	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	22 Al	Aluminum	9	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	23 Mg	Magnesium	9	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	24 Ca	Calcium	9	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	25 Na	Sodium	9	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	26 K	Potassium	9	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	27 Sr	Strontium	9	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	28 Y	Yttrium	9	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	29 Ga	Gallium	9	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	30 Li	Lithium	9	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	31 Nb	Niobium	9	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	32 Sc	Scandium	9	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	33 Ta	Tantalum	9	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	34 Ti	Titanium	9	0.010 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	35 Zr	Zirconium	9	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000621	36 S	Sulphur	9	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						

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CHIMITEC
BONDAR CLEGG



Rapport Lab Geochimie Geochemical Lab Report

CLIENT: ECHO BAY MINES

REPORT: T00-57217.0 (COMPLETE)

DATE RECEIVED: 19-JUN-00

DATE PRINTED: 25-JUL-00

PROJECT: 737

PAGE 1 OF 1

SAMPLE NUMBER	ELEMENT UNITS	Al ₂ O ₃	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta	Ti	Zr	S
		PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PCT
34523		219	<.2	3	4	66	2	20	10	0.6	<5	33	<5	2.41	32	<10	39	49	40	<20	<20	74	1.61	1.89	0.46	.23	.14	137	9	4	16	2	<5	<10	.011	24	0.12
34524		17	<.2	3	5	13	2	9	4	0.4	<5	<5	<5	0.54	55	<10	97	116	20	<20	<20	62	0.63	0.28	0.06	.15	.30	17	1	<2	4	1	<5	<10	<.01	60	0.04
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34530		143	<.2	3	6	19	2	18	8	0.4	<5	12	<5	1.14	19	<10	81	46	18	<20	<20	55	0.83	0.37	0.18	.22	.34	61	3	2	5	<1	<5	<10	<.01	37	0.06
34531		63	<.2	9	5	6	2	9	5	0.3	<5	8	<5	0.57	25	<10	23	224	10	<20	<20	29	0.21	0.06	0.01	.09	.06	7	<1	<2	1	<1	<5	<10	<.01	17	<.01



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BONDAR CLEGG



Rapport Lab Geochimie Geochemical Lab Report

REPORT: T00-57254.0 (COMPLETE)

REFERENCE:

CLIENT: ECHO BAY MINES

SUBMITTED BY: P.DESGAGNE

PROJECT: 737

DATE RECEIVED: 06-JUL-00 DATE PRINTED: 21-JUL-00

DATE APPROVED	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD	SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
000710	1 Au30 Gold	15	5 PPB	Fire Assay of 30g	30g Fire Assay - AA	ROCK	15	-150	15	CRUSH, SPLIT	15
000710	2 Ag Silver	15	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					PULVERIZATION	15
000710	3 Cu Copper	15	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
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000710	9 Cd Cadmium	15	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000710	10 Bi Bismuth	15	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000710	11 As Arsenic	15	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000710	12 Sb Antimony	15	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000710	13 Fe Iron	15	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000710	14 Mn Manganese	15	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
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000710	16 Ba Barium	15	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
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000710	18 V Vanadium	15	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000710	19 Sn Tin	15	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
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000710	32 Sc Scandium	15	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000710	33 Ta Tantalum	15	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000710	34 Ti Titanium	15	0.010 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000710	35 Zr Zirconium	15	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
000710	36 S Sulphur	15	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						

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CHIMITEC
BONDAR CLEGG



Rapport Lab Geochimie Geochemical Lab Report

CLIENT: ECHO BAY MINES

PROJECT: 737

REPORT: T00-57254.0 (COMPLETE)

DATE RECEIVED: 06-JUL-00

DATE PRINTED: 21-JUL-00

PAGE 1 OF 1

SAMPLE NUMBER	ELEMENT	Au30 UNITS	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta	Ti	Zr	S
			PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PCT
34532		7	<.2	<1	<2	298	<1	139	40	0.5	<5	<5	<5	6.14	100	<10	11	177	101	<20	<20	77	4.52	6.15	<.01	<.01	.05	3	1	9	34	4	<5	<10	<.01	30	<.01
34533		53	<.2	1	<2	33	<1	32	8	0.2	<5	<5	<5	1.05	188	<10	37	86	12	<20	<20	106	0.59	0.66	0.26	0.10	.08	43	5	<2	4	<1	<5	<10	<.01	95	0.04
34534		5	<.2	2	5	63	1	36	12	0.3	<5	<5	<5	4.42	1280	<10	26	72	13	<20	<20	104	0.46	4.87	9.04	<.01	.13	1282	6	<2	3	<1	<5	<10	<.01	41	0.10
34535		5	<.2	2	2	35	<1	31	7	<.2	<5	<5	<5	1.10	182	<10	38	97	12	<20	<20	100	0.59	0.60	0.27	0.09	.07	40	4	<2	4	<1	<5	<10	<.01	77	0.05
34536		174	<.2	2	4	27	5	14	6	0.3	<5	25	<5	1.42	19	<10	175	49	14	<20	<20	91	0.62	0.20	0.16	0.04	.36	57	3	2	3	<1	<5	<10	<.01	7	0.06
34537		153	<.2	3	8	18	<1	8	5	0.3	<5	61	<5	0.97	18	<10	181	78	14	<20	<20	89	0.81	0.38	0.21	0.05	.37	54	4	2	4	<1	<5	<10	<.01	6	0.02
34538		39	<.2	9	3	14	<1	5	5	<.2	<5	9	<5	0.91	200	<10	123	68	5	<20	<20	65	0.42	0.09	0.26	0.05	.30	54	3	<2	1	<1	<5	<10	<.01	8	0.16
34539		98	<.2	16	3	11	1	5	4	<.2	<5	5	<5	0.90	131	<10	344	62	5	<20	<20	60	0.41	0.07	0.26	0.06	.30	65	3	<2	<1	<1	<5	<10	<.01	12	0.15
34540		33	<.2	50	2	18	1	6	4	<.2	<5	<5	<5	0.77	270	<10	270	75	6	<20	<20	62	0.42	0.15	0.35	0.06	.29	68	3	<2	1	<1	<5	<10	<.01	12	0.11
34541		68	<.2	17	4	7	<1	5	3	0.2	<5	36	<5	1.04	57	<10	101	64	5	<20	<20	69	0.37	0.05	0.15	0.06	.29	56	2	<2	<1	<1	<5	<10	<.01	12	0.10
34542		<5	<.2	7	<2	20	<1	8	5	0.2	<5	<5	<5	1.05	239	<10	462	95	9	<20	<20	43	0.48	0.34	0.48	0.06	.24	77	3	<2	2	<1	<5	<10	<.01	15	0.22
34543		211	<.2	3	5	7	1	4	3	0.3	<5	96	<5	1.07	45	<10	296	74	7	<20	<20	72	0.47	0.06	0.20	0.03	.39	75	3	<2	1	<1	<5	<10	<.01	11	0.10
34546		<5	<.2	1	<2	21	<1	15	7	<.2	<5	<5	<5	1.03	269	<10	29	54	10	<20	<20	58	0.55	0.77	0.80	0.09	.08	51	1	<2	4	<1	<5	<10	<.01	32	<.01
34547		85	<.2	5	6	15	<1	6	5	0.2	<5	16	<5	1.24	192	<10	396	74	5	<20	<20	47	0.40	0.16	0.52	0.06	.27	101	3	<2	<1	<1	<5	<10	<.01	8	0.42
34548		7	<.2	2	<2	9	<1	6	3	<.2	<5	11	<5	0.51	16	<10	68	79	6	<20	<20	89	0.44	0.20	0.07	0.07	.18	21	2	<2	2	<1	<5	<10	<.01	22	<.01

M



CHIMITEC
BONDAR CLEGG



Rapport Lab Geochimie Geochemical Lab Report

REPORT: T00-57217.1 (COMPLETE)

REFERENCE:

CLIENT: ECHO BAY MINES

SUBMITTED BY: P.DESGAGNE

PROJECT: 737

DATE RECEIVED: 19-JUN-00 DATE PRINTED: 14-AUG-00

DATE APPROVED	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD
000725	1 SiO2 Silica (SiO2)	9	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
000725	2 TiO2 Titanium (TiO2)	9	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
000725	3 Al2O3 Alumina (Al2O3)	9	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
000725	4 Fe2O3 Total Iron (Fe2O3)	9	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
000725	5 MnO Manganese (MnO)	9	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
000725	6 MgO Magnesium (MgO)	9	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
000725	7 CaO Calcium (CaO)	9	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
000725	8 Na2O Sodium (Na2O)	9	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
000725	9 K2O Potassium (K2O)	9	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
000725	10 P2O5 Phosphorous (P2O5)	9	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
000725	11 LOI Loss on Ignition	9	0.01 PCT	Ignition 1000 Deg.	GRAVIMETRIC
000725	12 Total Whole Rock Total	9	0.01 PCT		
000725	13 Cr2O3 Chromium Oxide	9	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
000725	14 Zr Zirconium	9	1 PPM	Pressed Pellet	XRAY FLUORESCENCE
000725	15 Y Yttrium	9	1 PPM	Pressed Pellet	XRAY FLUORESCENCE
000725	16 Rb Rubidium	9	2 PPM	Pressed Pellet	XRAY FLUORESCENCE
000725	17 Sr Strontium	9	1 PPM	Pressed Pellet	XRAY FLUORESCENCE
000725	18 Nb Niobium	9	2 PPM	Pressed Pellet	XRAY FLUORESCENCE
000725	19 Ba Barium	9	10 PPM	Pressed Pellet	XRAY FLUORESCENCE

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ROCK	9	-150	9	AS RECEIVED	9

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INVOICE TO: MR PAUL DEGAGNE

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BONDAR CLEGG



Rapport Lab Geochimie Geochemical Lab Report

CLIENT: ECHO BAY MINES

PROJECT: 737

REPORT: T00-57217.1 (COMPLETE)

DATE RECEIVED: 19-JUN-00

DATE PRINTED: 14-AUG-00

PAGE 1 OF 1

SAMPLE NUMBER	ELEMENT UNITS	SiO2 PCT	TiO2 PCT	Al2O3 PCT	Fe2O3 PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	Total PCT	Cr2O3 PCT	Zr PPM	Y PPM	Rb PPM	Sr PPM	Nb PPM	Ba PPM
34523		57.32	0.77	17.39	5.27	<.01	4.46	1.05	6.80	1.61	0.84	3.49	99.01	0.01	313	13	20	417	8	442
34524		72.93	0.39	14.71	1.61	<.01	1.06	0.20	4.79	2.58	0.06	1.51	99.90	0.06	295	3	55	149	6	1014
34525		71.03	0.50	14.94	1.84	<.01	0.84	0.58	4.90	4.04	0.41	1.21	100.30	0.02	209	7	57	445	6	1601
34526		81.13	0.28	9.71	1.13	<.01	0.15	0.19	2.99	3.59	0.16	0.76	100.10	0.03	117	3	40	181	3	1036
34527		85.46	0.24	7.16	1.50	<.01	0.39	0.18	2.53	1.33	0.15	0.94	99.91	0.03	99	2	29	169	2	542
34528		76.04	0.42	11.73	2.34	<.01	0.53	0.25	3.62	2.27	0.22	1.42	98.86	0.03	178	4	56	206	4	968
34529		68.44	1.17	7.40	6.86	0.02	8.42	1.05	0.07	0.35	0.44	4.25	98.51	0.04	805	9	13	11	15	84
34530		60.09	0.65	20.39	3.19	<.01	1.30	0.37	7.67	2.93	0.30	2.19	99.09	0.01	249	6	74	381	7	740
34531		91.36	0.11	3.64	1.09	<.01	0.17	0.03	1.54	0.53	0.03	0.58	99.14	0.05	58	<1	10	50	<2	136



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BONDAR CLEGG



Rapport Lab Geochemie Geochemical Lab Report

REPORT: T00-57254.1 (COMPLETE)

REFERENCE:

CLIENT: ECHO BAY MINES

SUBMITTED BY: P.DESGAGNE

PROJECT: 737

DATE RECEIVED: 06-JUL-00 DATE PRINTED: 15-AUG-00

DATE APPROVED	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD
000000	1 SiO2	Silica (SiO2)	15	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
000000	2 TiO2	Titanium (TiO2)	15	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
000000	3 Al2O3	Alumina (Al2O3)	15	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
000000	4 Fe2O3	Total Iron (Fe2O3)	15	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
000000	5 MnO	Manganese (MnO)	15	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
000000	6 MgO	Magnesium (MgO)	15	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
000000	7 CaO	Calcium (CaO)	15	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
000000	8 Na2O	Sodium (Na2O)	15	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
000000	9 K2O	Potassium (K2O)	15	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
000000	10 P2O5	Phosphorous (P2O5)	15	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
000000	11 LOI	Loss on Ignition	15	0.01 PCT	Ignition 1000 Deg.	GRAVIMETRIC
000000	12 Total	Whole Rock Total	15	0.01 PCT		
000000	13 Cr2O3	Chromium Oxide	15	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
000000	14 Zr	Zirconium	15	1 PPM	Pressed Pellet	XRAY FLUORESCENCE
000000	15 Y	Yttrium	15	1 PPM	Pressed Pellet	XRAY FLUORESCENCE
000000	16 Rb	Rubidium	15	2 PPM	Pressed Pellet	XRAY FLUORESCENCE
000000	17 Sr	Strontium	15	1 PPM	Pressed Pellet	XRAY FLUORESCENCE
000000	18 Nb	Niobium	15	2 PPM	Pressed Pellet	XRAY FLUORESCENCE
000000	19 Ba	Barium	15	10 PPM	Pressed Pellet	XRAY FLUORESCENCE

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ROCK	15	-150	15	AS RECEIVED	15
				AS RECEIVED	15

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CHIMITEC
BONDAR CLEGG



Rapport Lab Geochimie Geochemical Lab Report

CLIENT: ECHO BAY MINES

PROJECT: 737

REPORT: T00-57254.1 (COMPLETE)

DATE RECEIVED: 06-JUL-00

DATE PRINTED: 15-AUG-00

PAGE 1 OF 1

SAMPLE NUMBER	ELEMENT UNITS	SiO2 PCT	TiO2 PCT	Al2O3 PCT	Fe2O3 PCT	MnO PCT	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	Total PCT	Cr2O3 PCT	Zr PPM	Y PPM	Rb PPM	Sr PPM	Nb PPM	Ba PPM
34532		58.28	0.71	11.21	11.02	0.02	12.56	0.06	0.09	0.55	0.04	6.11	100.70	0.05	358	2	18	9	6	801
34533		63.60	1.22	18.69	1.77	0.03	1.25	0.47	9.46	1.16	0.05	1.66	99.38	0.03	658	15	20	259	17	298
34534		37.11	1.00	6.62	5.94	0.15	7.88	14.20	0.12	4.83	0.04	21.78	99.69	0.01	575	15	61	1265	11	533
34535		68.27	0.42	17.48	1.07	<.01	0.75	0.05	8.90	0.98	0.03	0.80	98.77	0.02	284	2	26	240	6	176
34536		61.20	0.76	20.51	3.26	<.01	1.07	0.30	5.85	4.20	0.27	2.50	99.95	0.01	306	7	95	308	9	1425
34537		70.64	0.57	15.08	2.63	<.01	1.29	0.37	3.55	3.30	0.30	2.06	99.80	0.02	235	6	81	216	5	1526
34538		68.59	0.53	16.07	2.49	0.03	0.62	0.45	5.16	3.78	0.26	1.68	99.67	0.02	218	5	80	417	6	1486
34539		68.36	0.52	16.20	2.45	0.02	0.53	0.56	5.39	3.82	0.30	2.28	100.46	0.01	217	7	73	435	6	1769
34540		69.22	0.50	15.73	2.15	0.04	0.67	0.60	5.03	4.13	0.26	1.57	99.93	0.02	212	6	74	425	5	1957
34541		70.25	0.54	15.68	2.54	<.01	0.54	0.28	5.41	3.30	0.22	1.49	100.26	0.02	214	5	73	348	7	1165
34542		70.41	0.45	14.17	2.14	0.03	0.82	0.78	4.22	4.64	0.25	2.22	100.22	0.09	185	6	74	497	5	2241
34543		69.76	0.55	15.44	2.88	<.01	0.86	0.36	2.79	4.52	0.27	2.30	99.74	0.02	221	6	106	256	7	2077
34546		64.39	0.34	17.91	1.71	0.04	1.41	1.36	8.39	2.07	0.03	2.48	100.14	0.01	231	2	29	396	4	361
34547		69.76	0.50	14.98	2.60	0.03	0.67	0.93	5.26	2.55	0.33	2.16	99.80	0.02	199	6	60	343	6	1499
34548		72.67	0.53	15.09	1.37	<.01	0.65	0.19	6.38	1.69	0.12	1.10	99.79	0.02	223	5	42	419	7	597



Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use) W0060.00336
Assessment Files Research Imaging



42A06NW2025 2.20504 OGDEN

900

sections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, this work and correspond with the mining land holder. Questions about this collection sent to the Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240.
- Please type or print in ink.

1. Recorded holder(s) (Attach a list if necessary)

2. 20504

Name ECHO BAY MINES Ltd.	Client Number 128711
Address P.O. Box 551 Timmins, On. P4N-7E7	Telephone Number 705-363-2366
	Fax Number 705-363-2222
Name	Client Number
Address	Telephone Number
	Fax Number

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

- Geotechnical: prospecting, surveys, assays and work under section 18 (regs) Physical: drilling stripping, trenching and associated assays Rehabilitation

Work Type mapping / geochemical	Office Use
	Commodity
	Total \$ Value of Work Claimed # 2,580
Dates Work Performed From 14 6 2000 To 15 6 2000	NTS Reference
Global Positioning System Data (if available)	Mining Division Porcupine
Township/Area Ogden	Resident Geologist District Timmins
M or G-Plan Number G-3979	

- Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

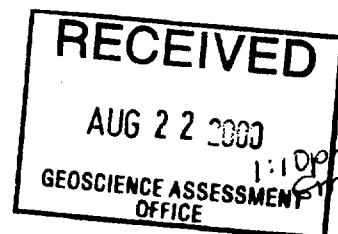
3. Person or companies who prepared the technical report (Attach a list if necessary)

Name PAUL DEGAGNE - Echo Bay Mines Ltd.	Telephone Number 705-363-2366
Address P.O. Box 551 Timmins, ON P4N-7E7	Fax Number 705-363-2222
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number

4. Certification by Recorded Holder or Agent

I, **PAUL DEGAGNE**, do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent <i>[Signature]</i>	Date Aug. 21/2000
Agent's Address P.O. Box 551 Timmins, ON P4N-7E7	Telephone Number 705-363-2366
	Fax Number 705-363-2222



5. **Work to be recorded and distributed.** Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

200060. 00336

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$ 8,892	\$ 4,000	0	\$4,892
1 1205822	1	\$ 785	890	0	0
2 1213116	2	\$ 1000	1690	0	0
3 1228640	1	\$ 795	0	795	0
4					
5					
6					
7			2. 20504		
8					
9					
10					
11					
12					
13					
14					
15					
Column Totals	4	2580	2580	795	0

I, Paul Degagne (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorder or Agent Authorized in Writing: [Signature] Date: Aug. 21 / 2000

6. **Instructions for cutting back credits that are not approved.**

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

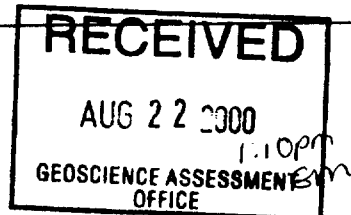
- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):
- credits to be cut from

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

0241 (03/97)





Statement of Costs for Assessment Credit

Transaction Number (office use) 00000 00336

Personal information collected on this form is obtained under the authority of subsection 6 (1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, this information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to a Provincial Mining Recorder, Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Table with 4 columns: Work Type, Units of work, Cost Per Unit of work, Total Cost. Rows include mapping/sampling, prospecting/grid refurbishing, report writing, drafting, whole Rock Analyses, Au+34 ICP Analyses, Associated Costs, Transportation Costs, Food and Lodging Costs, and Total Value of Assessment Work (2,580).

Calculations of Filing Discounts:

- 1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work.

TOTAL VALUE OF ASSESSMENT WORK x 0.50 = Total \$ value of worked claimed.

Note: - Work older than 5 years is not eligible for credit. - A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification.

Certification verifying costs:

I, Paul Degagne, do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as Project Geologist - Echo Bay Mines I am authorized to make this certification.

Signature [Handwritten Signature] RECEIVED Aug 21/2000 AUG 22 2000 1:10 PM GEOSCIENCE ASSESSMENT OFFICE

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

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

October 6, 2000

Paul DeGagne
ECHO BAY MINES LTD.
P.O. BOX 551
TIMMINS, ONTARIO
P4N-7E7

Visit our website at:
www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

Dear Sir or Madam:

Submission Number: 2.20504

Status

Subject: Transaction Number(s): W0060.00336 Approval


We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. **WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.**

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

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

Yours sincerely,



ORIGINAL SIGNED BY
Steve B. Beneteau
Acting Supervisor, Geoscience Assessment Office
Mining Lands Section

Work Report Assessment Results

Submission Number: 2.20504

Date Correspondence Sent: October 06, 2000

Assessor: LUCILLE JEROME

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W0060.00336	1205822	OGDEN	Approval	October 06, 2000

Section:

12 Geological GEOL

17 Assays ASSAY

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.

Correspondence to:

Resident Geologist
South Porcupine, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):

Paul DeGagne
ECHO BAY MINES LTD.
TIMMINS, ONTARIO

MAP SYMBOLOLOGY

Aerial Cableway	Pipeline
Boundary	Railroad
International	Single Track
Domestic	Double Track
Abandoned	Abandoned
Approachable	Approachable
Lot, Contaminated	Approachable
Perth Boundary	Approachable
Bridge	Approachable
Beam, Railway	Approachable
Building	Approachable
Chimney	Approachable
Cliff, Pit, Hole	Approachable
Contours	Approachable
International	Approachable
Approachable	Approachable
Depression	Approachable
Control Points	Approachable
Horizontal	Approachable
Vertical	Approachable
Culvert	Approachable
Falls	Approachable
Double line river	Approachable
Fence, Hedge, Wall	Approachable
Feature Outline	Approachable
(Contract on features, etc.)	Approachable
Flooded Land	Approachable
Lock	Approachable
Marsh or Swamp	Approachable
Meat	Approachable
Mine Head Frame	Approachable
Outcrop	Approachable

REFERENCES

L.Q. 6613 "BOOMING GROUNDS" COVERS THE WESTERLY HALF OF THE BED OF THE MATTAGAMI RIVER FLOWING THROUGH THE TOWNSHIP FILE 73543

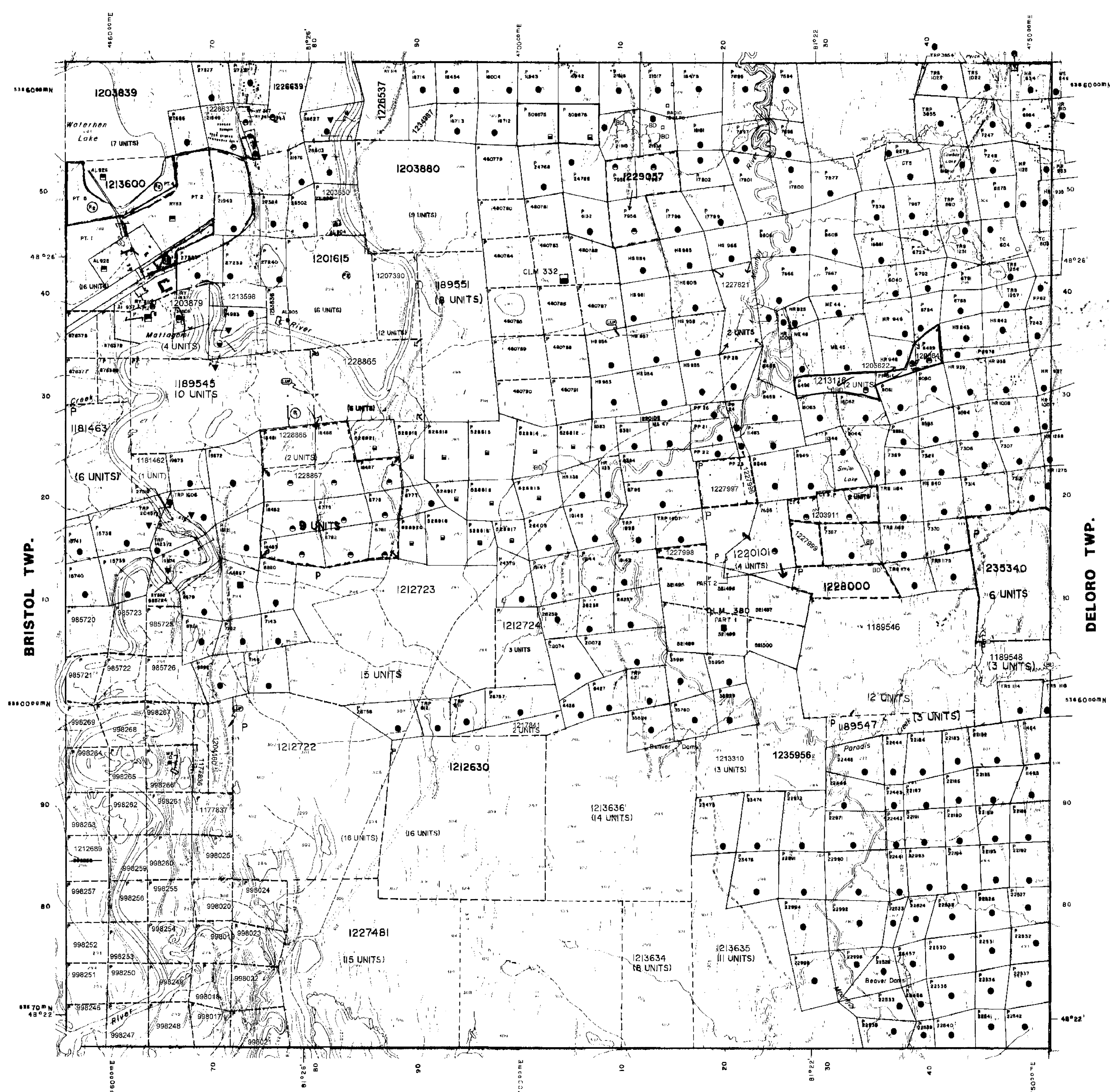
AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

- NRW 5179, 2/11/79 S.R.O.
- APPLICATION PENDING UNDER PUBLIC LANDS ACT NOTICE RECEIVED 88-MAR-30 (NON-MINABLE TRAIL)
- AGGREGATE PERMIT
- APPLICATION PENDING UNDER PUBLIC LANDS ACT SEP. 09/95

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON

MOUNTJOY TWP.

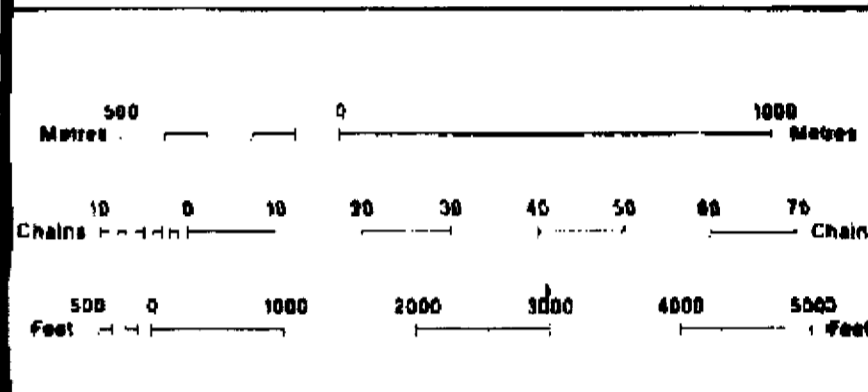


LEGEND

HIGHWAY AND ROUTE No	[Symbol]
OTHER ROADS	[Symbol]
TRAILS	[Symbol]
SURVEYED LINES	[Symbol]
TOWNSHIPS, BASE LINES, ETC	[Symbol]
LOTS, MINING CLAIMS, PARCELS, ETC	[Symbol]
UNSURVEYED LINES	[Symbol]
LOT LINES	[Symbol]
PARCEL BOUNDARY	[Symbol]
MINING CLAIMS ETC	[Symbol]
RAILWAY AND RIGHT OF WAY	[Symbol]
UTILITY LINES	[Symbol]
NON PERENNIAL STREAM	[Symbol]
FLOODING OR FLOODING RIGHTS	[Symbol]
SUBDIVISION OR COMPOSITE PLAN	[Symbol]
RESERVATIONS	[Symbol]
ORIGINAL SHORELINE	[Symbol]
MARSH OR MUSKIEG	[Symbol]
MINES	[Symbol]
TRAVERSE MONUMENT	[Symbol]

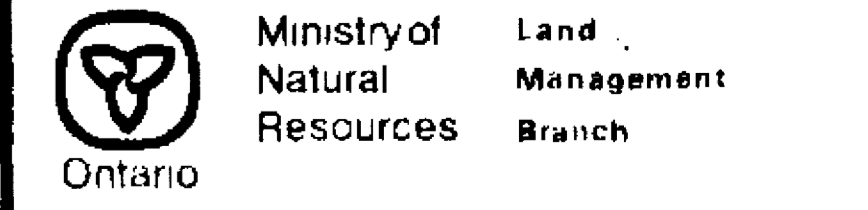
DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	[Symbol]
" SURFACE RIGHTS ONLY	[Symbol]
" MINING RIGHTS ONLY	[Symbol]
LEASE, SURFACE & MINING RIGHTS	[Symbol]
" SURFACE RIGHTS ONLY	[Symbol]
" MINING RIGHTS ONLY	[Symbol]
LICENCE OF OCCUPATION	[Symbol]
ORDER IN COUNCIL	[Symbol]
RESERVATION	[Symbol]
CANCELLED	[Symbol]
SAND & GRAVEL	[Symbol]



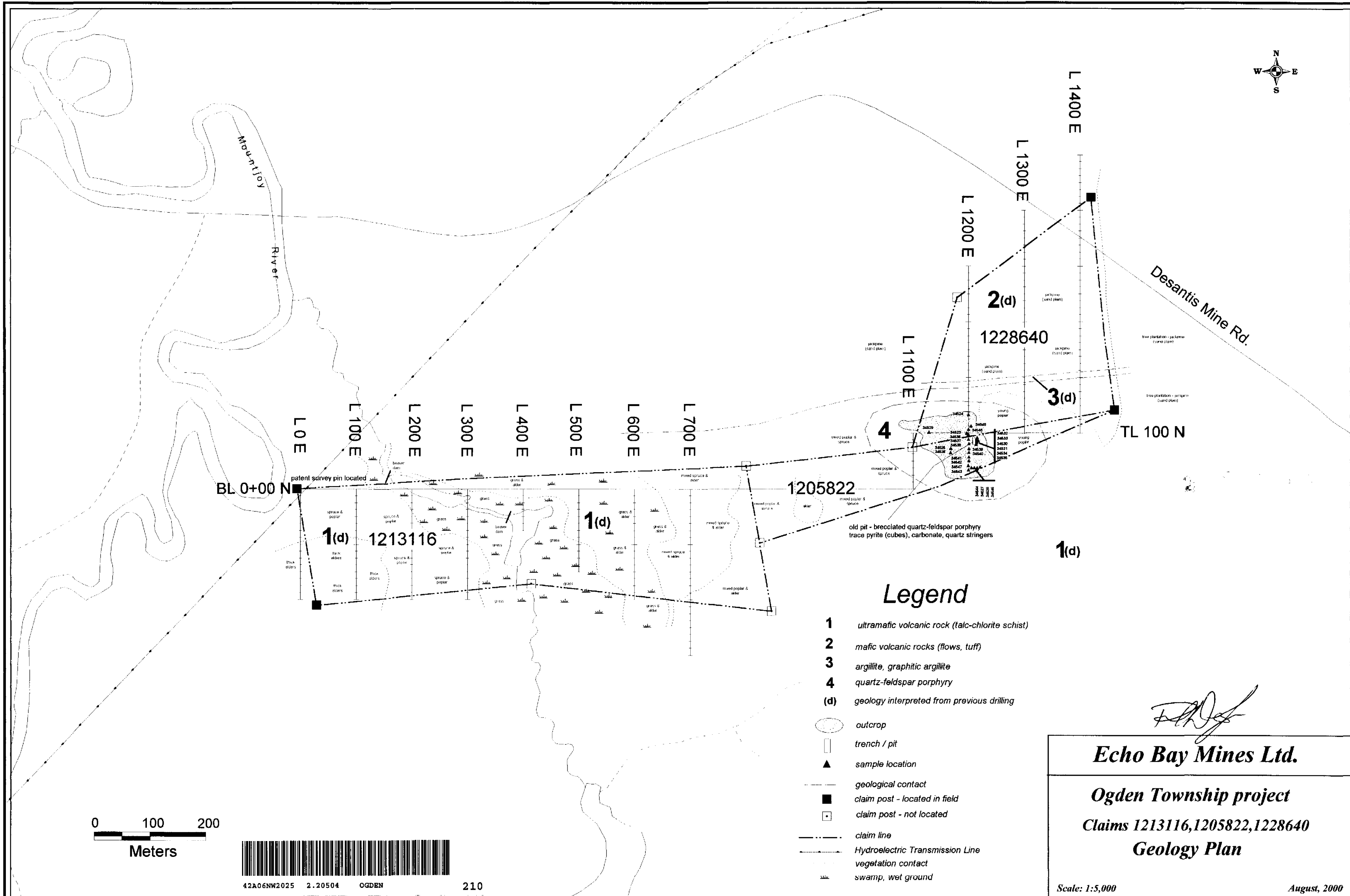
SCALE 1:20 000
GRID ZONE 17
NOTES

TOWNSHIP
OGDEN
M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
COCHRANE



ORIGINAL COMPILED JULY 1984
ACTIVATED JULY 3, 1992 BY G.C.
REVISED
CREATED BY G.W.
Number
G-3979

PRICE TWP.



BL 0+00 N

L 0 E

L 100 E

L 200 E

L 300 E

L 400 E

L 500 E

L 600 E

L 700 E

L 1100 E

L 1200 E

L 1300 E

L 1400 E

TL 100 N

1(d)

1213116

1(d)

1205822

2(d)

1228640

3(d)

4

1(d)

Legend

- 1 ultramafic volcanic rock (taic-chlorite schist)
- 2 mafic volcanic rocks (flows, tuff)
- 3 argillite, graphitic argillite
- 4 quartz-feldspar porphyry
- (d) geology interpreted from previous drilling
- outcrop
- trench / pit
- sample location
- geological contact
- claim post - located in field
- claim post - not located
- claim line
- Hydroelectric Transmission Line
- vegetation contact
- swamp, wet ground

Echo Bay Mines Ltd.

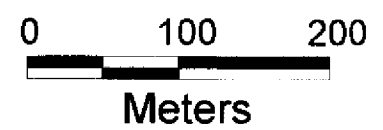
Ogden Township project

Claims 1213116, 1205822, 1228640

Geology Plan

Scale: 1:5,000

August, 2000



42A06NW2025 2.20504 OGDEN 210