

2.23698



31M05SE2045 2.23698

LORRAIN

010

**Cabo Mining Corp.**

**Cobalt Area Project**

**Pan Lake Grid - Lorrain Township**

**Drill Hole Logs**

**Holes CC-13 & CC-14**

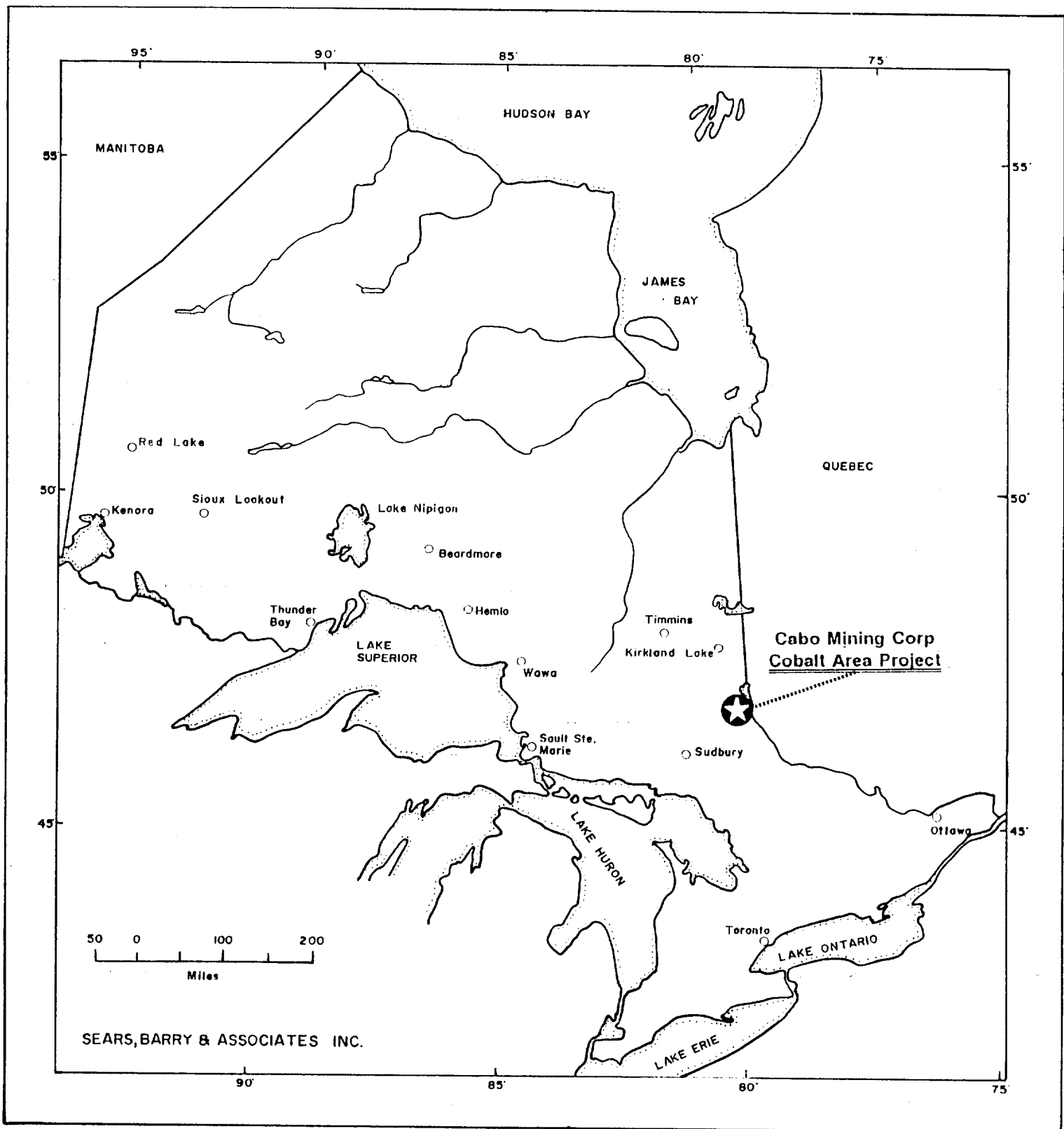


Fig. 1: Regional Location Map of Ontario.

# CABO MINING CORP.

## DIAMOND DRILL LOG

PROPERTY: Cobalt  
 HOLE No.: CC13  
 Collar Eastings: 1617.00  
 Collar Northings: 54.00  
 Collar Elevation: 340.00  
 Grid: Pan-Anderson  
 Claim# 1225265 Lorrain Twp.

Collar Inclination: -47.00  
 Grid Bearing: 336.00  
 Final Depth: 118.30 metres  
 BQ Core

Logged by: S. Sears (7 May)  
 Date: 10 Feb - 28 March 2002  
 Down-hole Survey: none  
 Frontier Drilling

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS		
			FROM	TO	WIDTH
0	1.7	Casing (Left in place)	0.00	0.00	0.00
1.7	10.8	<p>MAFIC VOLCANIC ROCKS:            Pillowed, variably deformed (weak to highly sheared); medium to dark grey green; local chloritic shears; local epidote stringers and patches; locally amgdaloidal; crude layering, probably shear related, at 45 degrees to the C/A.            Lower contact sharp at 65 degrees to the C/A</p>			
10.8	11.1	<p>LAMPROPHYRE:            Coarse grained; abundant small xenoliths (up to 1 cm.) make up 60 - 80% of rock; heterolithic from feldspar to mafic clasts; lower contact sheared at 20 - 30 degrees to the C/A.</p>			
11.1	11.55	<p>MAFIC VOLCANIC:            As above ( 1.7 - 10.8 metres ).</p>			
11.55	11.68	<p>LAMPROPHYRE:            Biotite is major constituent; medium to</p>			

HOLE No: CC13

# CABO MINING CORP.

## DIAMOND DRILL LOG

PROPERTY: Cobalt  
HOLE No.: CC13

Page 2

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS		
			FROM	TO	WIDTH
		coarse crystalline texture.			
11.68	11.92	MAFIC VOLCANIC: As above ( 11.1 - 11.55 metres ) but highly epidotized.			
11.92	12.05	LAMPROPHYRE: Xenolith bearing, biotite matrix; xenoliths highly digested; upper contact 60 - 70 degrees to C/A, lower contact along micro fault at 35 - 40 degrees to C/A.			
12.05	12.4	MAFIC VOLCANIC: As above ( 11.68 - 11.92 metres ).			
12.4	12.9	LAMPROPHYRE: Coarse grained, abundant small xenoliths; heterolithic; xenoliths highly stretched; long axis and shear fabric at 55 - 60 degrees to the C/A. Upper and lower contacts irregular at 35 - 40 degrees to the C/A.			
12.9	13.18	MAFIC VOLCANIC: Layer similar to above.			
13.18	13.3	LAMPROPHYRE: Biotite rich, minor xenoliths; irregular contacts.			

HOLE No: CC13

# CABO MINING CORP.

## DIAMOND DRILL LOG

PROPERTY: Cobalt  
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Page 3

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS		
			FROM	TO	WIDTH
13.3	15.15	<p>BRECCIA ZONE: Mafic volcanic (50%), Lamprophyre (30%), Quartz and feldspar dyke (20%); Lamprophyre is medium grained, biotite rich with rare xenoliths; quartz occurs as irregular veins with felsic (syenite) dyke material and contains pyrite and chalcopyrite. 13.5 - 14.2: Quartz vein with Cpy/Py</p>			
15.15	17.5	<p>LAMPROPHYRE: Coarse grained, abundant, small rounded, partially digested xenoliths; rare calcite stringers.</p>			
17.5	118.3	<p>GABBRO: Dark grey to black; feldspar phyrlic; massive texture, scattered epidote stringers; local narrow syenite dykes; locally sheared and brecciated. 20.4 - 22.4: Sheared and brecciated zone; orangy brown colour; syenite dyke fragments near bottom. 26.5 - 26.7: Syenite dyke, orange, irregular contacts at 40 - 50 degrees to the C/A. 27.15 - 27.5: Syenite dyke similar to</p>			

HOLE No: CC13

# CABO MINING CORP.

## DIAMOND DRILL LOG

PROPERTY: Cobalt  
HOLE No.: CC13

Page 4

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS		
			FROM	TO	WIDTH
		above ( 26.5 - 26.7 ).			
		44.8 - 45.0: Mylonite zone; minor pyrite, quartz and epidote.			
		45.5 - 47.5: Deformed, fractured and epidotized zone.			
		59.55 - 59.7: Quartz vein, scattered Pyrite, Cpy.			
		59.7 - 61.4: Chloritized zone.			
		60.0 - 60.1: Quartz + calcite vein zone.			
		77.5 - 77.8: Mafic dyke, gabbro, fine grained; 35 degrees to C/A.			
		81.4 - 81.5: Quartz-feldspar vein; irregular contacts.			
		81.5 - 82.0: Sheared zone, chlorite, minor lamprophyre, calcite.			
		82.0 - 82.6: Lamprophyre, fine grained, biotite porphyry, no xenoliths.			
		91.7 - 94.3: Fault zone, hematite staining and veinlets, epidote, highly fractured, scattered calcite; slickensided fractures.			
		96.3 - 104.2: Intensely epidotized, local narrow calcite and qtz veinlets with hematite, epidote and minor pyrite; pale green epidote colour over 50% of rock.			
		104.2: Below this point unit becomes finer grained and a pale to medium grey colour overall, probably a contact metamorphic phenomenon (approaching granitic rocks);			

HOLE No: CC13

# CABO MINING CORP.

## DIAMOND DRILL LOG

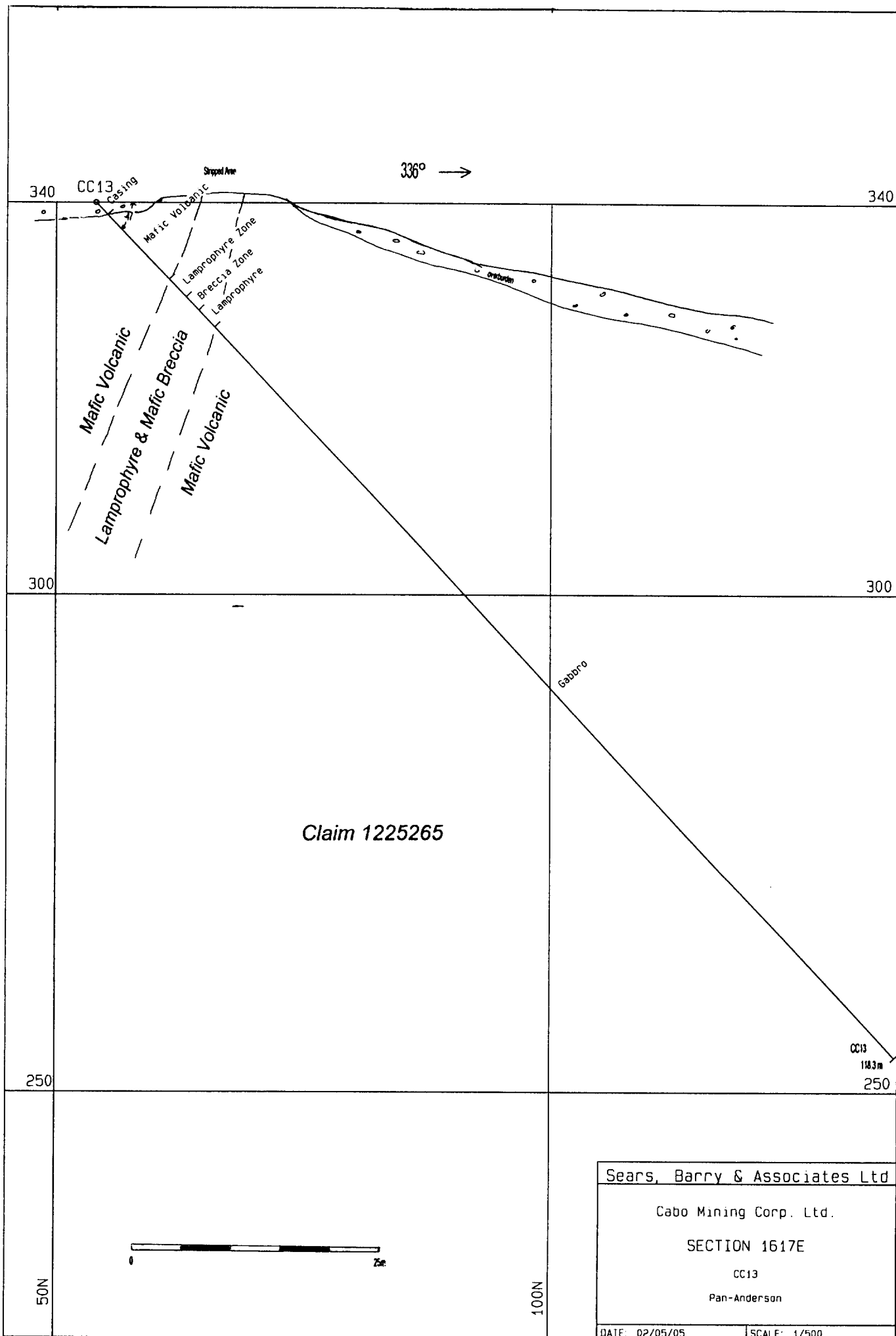
PROPERTY: Cobalt  
HOLE No.: CC13

Page 5

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS		
			FROM	TO	WIDTH
		local narrow pale grey to green mylonitized zones with epidote, quartz and minor pyrite; occasional narrow quartz +/- calcite +/- feldspar veinlets and irregular fracture fillings.			
		118.3 E.O.H.			

HOLE No: CC13





# CABO MINING CORP.

## DIAMOND DRILL LOG

PROPERTY: Cobalt  
 HOLE No.: CC14  
 Collar Eastings: 1120.00  
 Collar Northings: -15.00  
 Collar Elevation: 340.00  
 Grid: Pan-Anderson  
 Claim# 1230446 Lorrain Twp.

Collar Inclination: -45.00  
 Grid Bearing: 289.00  
 Final Depth: 74.80 metres  
 BQ Core

Logged by: S. Sears (17 April)  
 Date: 28 March - 15 April 2002  
 Down-hole Survey: none  
 Frontier Drilling

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS		
			FROM	TO	WIDTH
0	10.0	OVERBURDEN - (Casing advanced to 12.0 metres)	0.00	0.00	0.00
10.0	10.4	MAFIC VOLCANIC/GABBRO: Dark grey, green; chloritized; scattered angular altered feldspar phenocrysts up to 2 mm; Lower contact vague, 40 degrees to C/A.			
10.4	11.6	VOLCANIC BRECCIA: Heterolithic; mainly granitic clasts up to several cm., mainly less than 1 cm.; rare biotite-lamprophyre as matrix and small clasts; possibly a boulder.			
11.6	11.85	BOULDER TILL: Probably resulting from a deep weathered gully in bedrock.			
11.85	13.8	VOLCANIC BRECCIA: Similar to above (10.4 - 11.6m) except clasts become more clearly defined; clasts mostly granitic (syenite) in composition; one 4 X 6 cm clast of epidotized felsic material at 12.4 m.; scattered lamprophyre clasts or			

HOLE No: CC14

# CABO MINING CORP.

## DIAMOND DRILL LOG

PROPERTY: Cobalt  
HOLE No.: CC14

Page 2

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS		
			FROM	TO	WIDTH
		deformed matrix; scattered epidote stringers.			
13.8	28.6	LAMPROPHYRE BRECCIA (Diatreme?): Similar to the over lying volcanic breccia except lamprophyre content increases, often being the dominant lithology. 17.0 - 18.5: Contains > 50% 19.8 - 22.0: Is 50% lamprophyre 30% overall as large patches and clasts of varying sizes; lamprophyre also appears to occur as matrix, possibly a deformation phenomenon.			
28.6	30.0	MAFIC TO INTERMEDIATE BRECCIA: Less than 10% lamprophyre.			
30.0	34.3	BRECCIA ROCK: Minor lamprophyre. Appears to be sheared syenite (fragmented appearance), small stretched xenoliths, angular to rounded.			
34.4	34.8	COARSE VOLCANIC BRECCIA/DIATREME: Lamprophyre type as above.			
34.8	35.0	LAMPROPHYRE (?): Brownish grey.			

HOLE No: CC14

# CABO MINING CORP.

## DIAMOND DRILL LOG

PROPERTY: Cobalt  
HOLE No.: CC14

Page 3

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS		
			FROM	TO	WIDTH
35.0	35.7	COARSE VOLCANIC BRECCIA/DIATREME: Lamprophyre type as above.			
35.7	36.6	ALTERED LAMPROPHYRE: Chloritized mafic rock with biotite & amphibolite porphyrocrysts.			
36.6	47.5	SYENITE BRECCIA: Brick orange syenite (80%) in a fine grained soft matrix (15%); scattered calcite stringers and hairline fracture filling (5%).			
47.5	50.9	ALTERED LAMPROPHYRE: Soft (like matrix above); biotite lamprophyre? Scattered granitic & "ghost" grey xenoliths. Weak fabric.			
50.9	51.5	SYENITE BRECCIA: (Diatreme) as above 36.6 - 47.5.			
51.5	70.7	BIOTITE LAMPROPHYRE BRECCIA: Dyke (unknown rock) similar to above 47.5 - 50.9, except 5 - 10% syenite fragments of various sizes ( mm to 5 cm ) and shapes ( stretched, angular, rounded, irregular ); Biotite phenocrysts up to 1 cm long.			
70.7	74.8	LAMPROPHYRE BRECCIA:			

HOLE No: CC14

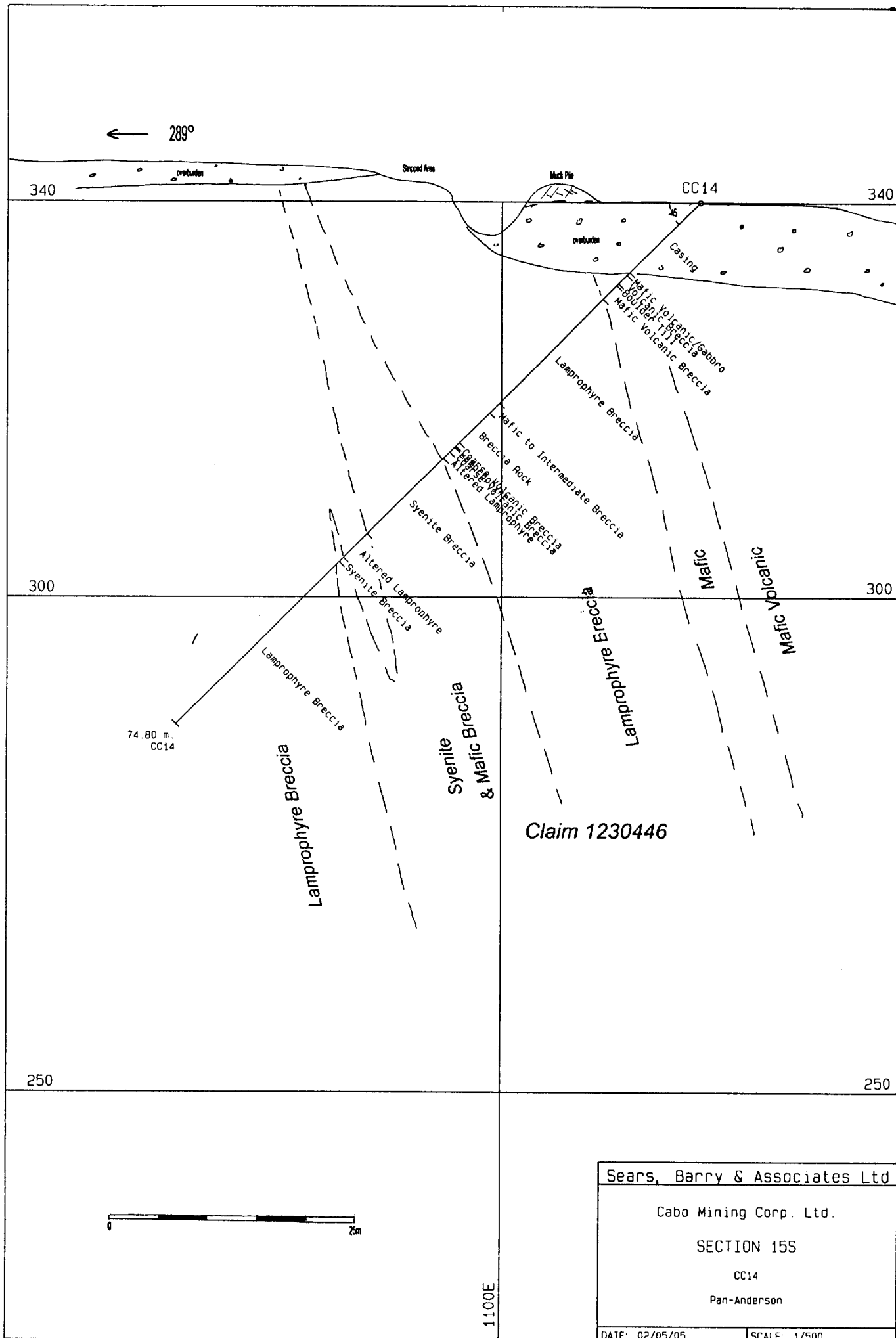
CABO MINING CORP.

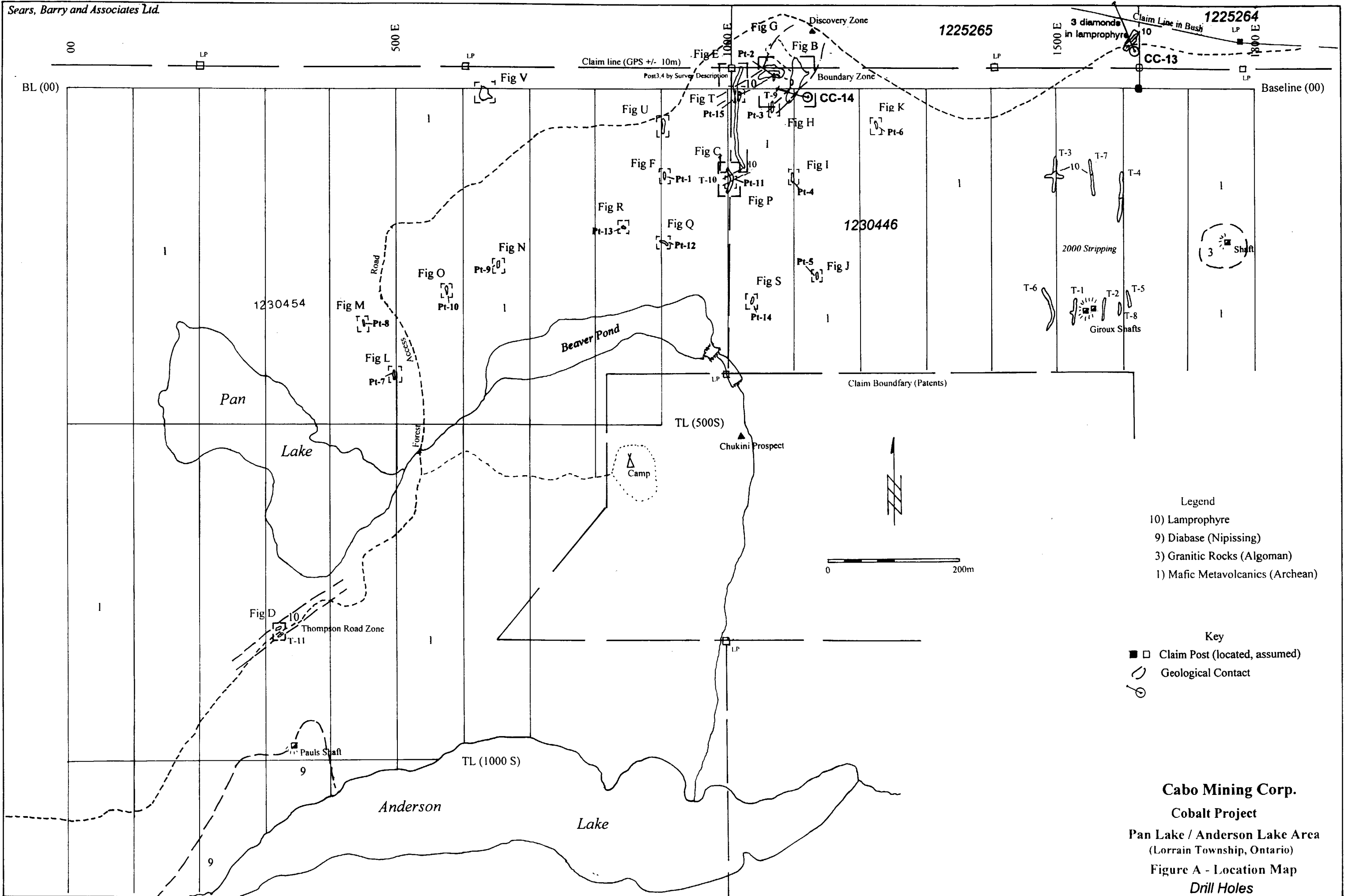
DIAMOND DRILL LOG

PROPERTY: Cobalt  
HOLE No.: CC14

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS		
			FROM	TO	WIDTH
		Greenish colour, coarser texture than above, only 10 - 50% xenoliths, xenoliths are increasingly assimilated into matrix.			
		74.8 Hole temporarily abandoned at 74.8 metres.			





- Legend
- 10) Lamprophyre
  - 9) Diabase (Nipissing)
  - 3) Granitic Rocks (Algomian)
  - 1) Mafic Metavolcanics (Archean)

- Key
- □ Claim Post (located, assumed)
  - Geological Contact

**Cabo Mining Corp.**  
**Cobalt Project**  
 Pan Lake / Anderson Lake Area  
 (Lorrain Township, Ontario)  
 Figure A - Location Map  
 Drill Holes

## Work Report Summary

**Transaction No:** W0280.00973

**Status:** APPROVED

**Recording Date:** 2002-JUN-06

**Work Done from:** 2002-FEB-09

**Approval Date:** 2002-JUL-12

**to:** 2002-MAY-30

**Client(s):**

120393	CONSOLIDATED PROFESSOR MINES LIMITED
178510	OUTCROP EXPLORATIONS LIMITED
302646	WAREING, SIMON KEITH

**Survey Type(s):**

PDRILL

**Work Report Details:**

Claim#	Perform	Perform Approve	Applied	Applied Approve	Assign	Assign Approve	Reserve	Reserve Approve	Due Date
L 1219335	\$0	\$0	\$5,600	\$5,600	\$0	0	\$0	\$0	2002-DEC-06
L 1219336	\$0	\$0	\$5,600	\$5,600	\$0	0	\$0	\$0	2002-DEC-06
L 1219337	\$0	\$0	\$1,613	\$1,613	\$0	0	\$0	\$0	2002-DEC-06
L 1219338	\$0	\$0	\$2,999	\$2,999	\$0	0	\$0	\$0	2002-DEC-06
L 1225265	\$12,285	\$12,285	\$0	\$0	\$12,285	12,285	\$0	\$0	2003-AUG-19
L 1230446	\$7,768	\$7,768	\$0	\$0	\$7,768	7,768	\$0	\$0	2002-JUL-21
L 1231081	\$0	\$0	\$241	\$241	\$0	0	\$0	\$0	2002-JUN-10 E
L 1231082	\$0	\$0	\$800	\$800	\$0	0	\$0	\$0	2003-FEB-25
L 1231083	\$0	\$0	\$3,200	\$3,200	\$0	0	\$0	\$0	2003-FEB-25
	\$20,053	\$20,053	\$20,053	\$20,053	\$20,053	\$20,053	\$0	\$0	

**External Credits:**                 \$0

**Reserve:**                                 \$0     Reserve of Work Report#: W0280.00973

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**\$0     Total Remaining**

Status of claim is based on information currently on record.



31M05SE2045 2.23698

LORRAIN

**900**

Date: 2002-AUG-16

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

CONSOLIDATED PROFESSOR MINES LIMITED  
12 MARTIN DRIVE  
COBALT, ONTARIO  
P0N 1C0 CANADA

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

**Submission Number:** 2.23698  
**Transaction Number(s):** W0280.00973

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 STEVEN BENETEAU by email at [steve.beneteau@ndm.gov.on.ca](mailto:steve.beneteau@ndm.gov.on.ca) or by phone at (705) 670-5855.

Yours Sincerely,



Ron Gashinski  
Senior Manager, Mining Lands Section

**Cc:** Resident Geologist

Consolidated Professor Mines Limited  
(Claim Holder)

Outcrop Explorations Limited  
(Claim Holder)

Simon Keith Wareing  
(Claim Holder)

Assessment File Library

Consolidated Professor Mines Limited  
(Assessment Office)

Seymour M Sears  
(Agent)





MINISTRY OF  
NORTHERN DEVELOPMENT  
AND MINES  
PROVINCIAL MINING  
RECORDS OFFICE

**MINING LAND TENURE  
MAP**

Date / Time of Issue Jul 10 2002 15:47h Eastern

TOWNSHIP / AREA PLAN  
LORRAIN G-3438

ADMINISTRATIVE DISTRICTS / DIVISIONS  
Mining Division Larder Lake  
Land Titles/Registry Division TIMISKAMING  
Ministry of Natural Resources District NORTH BAY

**TOPOGRAPHIC**

- APN - Active Boundaries
- Township
- Concession Lot
- Province Park
- Indian Reserve
- CLP, PE and FE
- Canals
- Control - Admin. Authority Jurisdiction
- Flow
- Watercourse
- Road
- Trail
- Natural Gas Pipeline
- Hydroline
- Communication Line
- Watercourse
- Municipal / Provincial / Federal Zone

**LAND TENURE**

- Freehold Titles
  - Surface Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Leasehold Titles
  - Surface and Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Licence of Occupation
  - Lease of Space
  - Surface and Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Other
  - Lot, Sub Part
  - Order in Court
  - Water Tower Lease Agreement
- Mining Claims

**LAND TENURE WITHDRAWALS**

- 1874 Area Withdrawal from Disposition Mining Act Withdrawal Types
  - With Surface and Mining Rights
  - With Mining Rights Only
  - With Surface Rights Only
  - With Mining Rights Only
  - With Surface Rights Only
  - With Mining Rights Only
  - With Surface Rights Only
  - With Mining Rights Only

**IMPORTANT NOTICES**



**LAND TENURE WITHDRAWAL DESCRIPTIONS**

Number	Type	Date	Description
4512	When	Jan 1 2001	STAMPING OF MINING CLAIMS WITHIN TOWNSHIPS ONLY WITH CONSENT OF THE MINISTER
4611	When	Jan 1 2001	FLOODING ELEVATION: 566.00 FT ELEV. 130.97
4616	When	Jan 1 2001	RESERVATION OF ONE CHAIN FROM HIGH WATER MARK TO BE MADE ON ALL PATENTS OF LANDS BORDERING ON LAKE TIMISKAMING EFFECTIVE FEBRUARY 15, 1928
4651	When	Jan 1 2001	FLOODING ELEVATION: 566.00 FT ELEV. 130.97
4662	When	Jan 1 2001	FLOODING E.P.C. ELEVATION: 768.87 FT ELEV. 7.688
4656	When	Jan 1 2001	RESERVATION OF ONE CHAIN FROM HIGH WATER MARK TO BE MADE ON ALL PATENTS OF LANDS BORDERING ON LAKE TIMISKAMING EFFECTIVE FEBRUARY 15, 1928
4679	When	Jan 1 2001	400 FT SURFACE RIGHTS RESERVATION ALONG THE SHORES OF ALL LAKES & RIVERS
4711	When	Jan 1 2001	FLOODING ELEVATION: 566.00 FT ELEV. 130.97
4718	When	Jan 1 2001	RESERVATION OF ONE CHAIN FROM HIGH WATER MARK TO BE MADE ON ALL PATENTS OF LANDS BORDERING ON LAKE TIMISKAMING EFFECTIVE FEBRUARY 15, 1928
WL 5538	When	03:15 2000	SEC 35 WL 5300 S.R.O. 2000/1710 186183
WL 5578	When	May 17 1998	WL 5578 N.R. SEPT 17 1900 SHD 10W R SITE DUCK HABITAT
WL 5575	When	May 17 1998	WL 5575 N.R. SEPT 17 1900 SHD 10W R SITE DUCK HABITAT
WL 5576	When	May 17 1998	SURFACE RIGHTS WITHDRAWN FROM STAMPING PROSPECTING BY ORDER WL 5576 N.R. SEPT 17 1900 SEARCH
WL 5579	When	May 17 1998	SEC WL 5579 N.R. SEPT 17 1900 SHD 10W R SITE DUCK HABITAT
WL 5577	When	May 17 1998	WL 5577 N.R. SEPT 17 1900 SHD 10W R SITE DUCK HABITAT
WL 4719	When	May 17 1998	SEC 35 WL 4719 N.R. SEPT 17 1900 S - Notice the withdrawal area has now been reported as a Conservation Reserve. Contact the Mining Recorder's Office for the regulated boundary as it may differ with the boundary of the Conservation Reserve.

**IMPORTANT NOTICES**

Areas under which special regulations, limitations or conditions exist that affect normal prospecting, mining and mineral development activities.



200

LORRAIN

31M0552045 2.23698



These mining claims are also covered with the Provincial Mining Records Office of the Ministry of Northern Development and Mines for additional information on the status of the claims shown herein. The data is not intended for registration, survey, or other legal purposes. Additional information may be obtained through the Local Titles or Registry Office, or the Ministry of Natural Resources. The information shown is derived from public data available in the Provincial Mining Records Office.

**General Information and Limitations**

Contact information: Provincial Mining Records Office, 108 rue... 705 638-4150 ext. 4000

This map may not show unregistered land tenure or interests therein including certain... land uses that prohibit or prohibit the entry to some mining claims may not be reflected.

