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**KINROSS GOLD CORPORATION**

**ASSESSMENT REPORT**

**ON**

**CLAIM # 1206782**

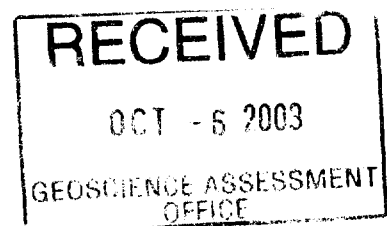
**BOND TOWNSHIP**

**PORCUPINE MINING DIVISION**

**Ryburn Norman, P.Geol**

**September 2, 2003.**

**2.26204**



## INTRODUCTION

Kinross Gold Corp. carried out a diamond drilling exploration program on Claim 18250 Patent # 9370, between March 1 and April 30, 2003. This claim is registered to Echo Bay Mines Ltd. , a wholly-owned subsidiary of Kinross Gold Corp. and is located in Lot 2, Concession 6 of Macklem Township, Porcupine Mining District. The expenditures of 2 Holes (identified as P03-15 and P03-16) from the drill program is herein submitted for assessment credits on contiguous claim number **1206782** which are due September 14, 2003. Claim 1206782 consists of 8 units and is located in Lot 12, Concession 5 and 6 in the Bond Township.

Drilling was carried out under contract to Bradley Brothers Ltd. of Timmins , Ontario. A total of 355 meters of NQ core was drilled in holes P03-15 and P03-16 and stored at Echo Bay's Aquarius Site in Connaught, Ontario. A total of 142 core samples were selected, split and forwarded to ALS-Chemex Chinitec Labs of Val-d'Or, Quebec for gold assaying.

Drilling and assaying invoices are attached and expenditures are summarised in Table 2. A total of \$ 25,028.10 is hereby submitted for assessment credits of \$16,000. \$3200 is to be applied 2003/2004 with the remainder to be banked for subsequent years.



Date / Time of Issue: Tue Sep 02 11:53:00 EDT 2003

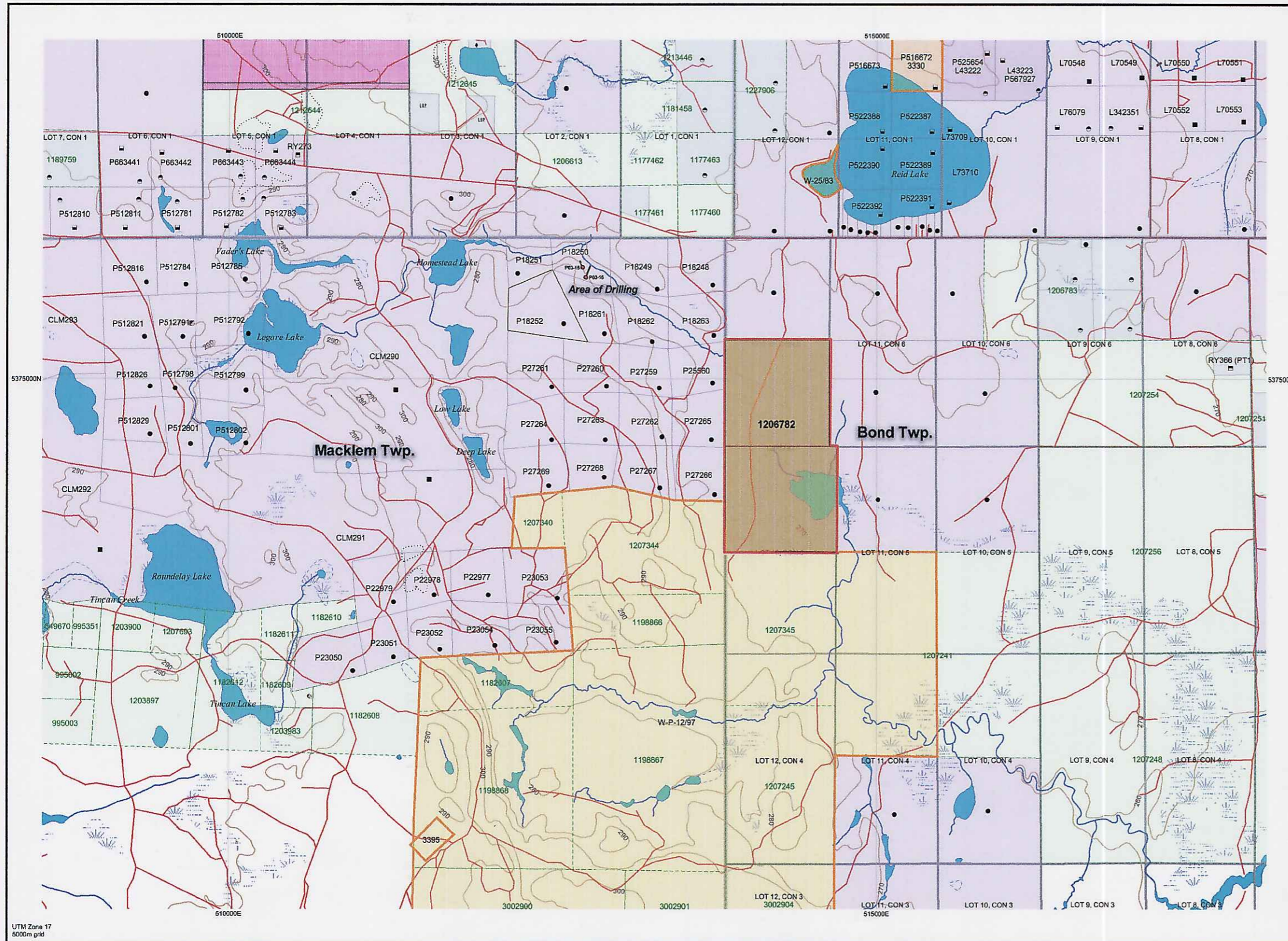
TOWNSHIP / AREA  
MACKLEM

PLAN  
G-3997

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division  
Land Titles/Registry Division  
Ministry of Natural Resources District

Porcupine  
COCHRANE  
TIMMINS

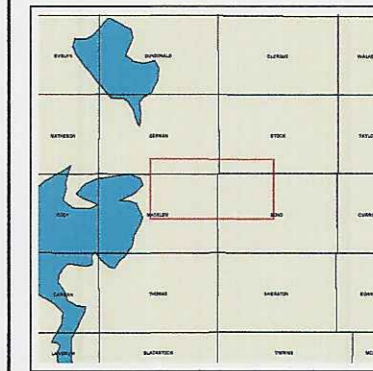


TOPOGRAPHIC

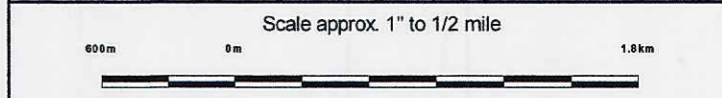
- Administrative Boundaries
- Township
- Concession, Lot
- Provincial Park
- Indian Reserve
- Cliff, Pit & Pile
- Contour
- Mine Shafts
- Mine Headframe
- Railway
- Road
- Trail
- Natural Gas Pipeline
- Utilities
- Tower

Land Tenure

- Freehold Patent**
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Leasehold Patent**
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Licence of Occupation**
  - Uses Not Specified
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
  - Land Use Permit
  - Order in Council (Not open for staking)
  - Water Power Lease Agreement



- Mining Claim
- Filled Only Mining Claims
- LAND TENURE WITHDRAWALS**
  - Areas Withdrawn from Disposition
  - Mining Acts Withdrawal Types**
    - Wsm Surface And Mining Rights Withdrawn
    - Ws Surface Rights Only Withdrawn
    - Wm Mining Rights Only Withdrawn
    - Order in Council Withdrawal Types
    - W'sm Surface And Mining Rights Withdrawn
    - W's Surface Rights Only Withdrawn
    - W'm Mining Rights Only Withdrawn
- IMPORTANT NOTICES



LAND TENURE WITHDRAWAL DESCRIPTIONS

Identifier	Type	Date	Description
3330	Wsm	Jan 1, 2001	RESERVE FOR RECREATIONAL PURPOSES S.R.O. 188543 UNDER SEC. 3 P.L.A
3395	Wsm	Jan 1, 2001	SURFACE AND MINING RIGHTS WITHDRAWN FROM PROSPECTING, STAKING
W-25/83	Wm	Jul 15, 1983	Sec. 1 W-25/83 July 15/83 M.R.O. reservation under the Beds of Navigable V
W-76/77	Ws	Jan 1, 1980	SURFACE RIGHTS ONLY WITHDRAWN UNDER SECTION 43 OF THE MINING AC
W-L-C1597	Wsm	Nov 21, 2001	Mining and Surface rights withdrawal Section 35 of the Mining Act RSO 1999 Order i
W-P-12/97	Ws	May 2, 1997	SURFACE RIGHTS ONLY WITHDRAWN FROM PROSPECTING, STAKING OUT, S
W-P-56/93	Wsm	Sep 27, 1993	SURFACE AND MINING RIGHTS WITHDRAWN FROM PROSPECTING, STAKING C

Those wishing to stake mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Northern Development and Mines for additional information on the status of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information shown on this map is compiled from various sources. Completeness and accuracy are not guaranteed. Additional information may also be obtained through the local Land Titles or Registry Office, or the Ministry of Natural Resources.

The information shown is derived from digital data available in the Provincial Mining Recorders' Office at the time of downloading from the Ministry of Northern Development and Mines web site.

**General Information and Limitations**

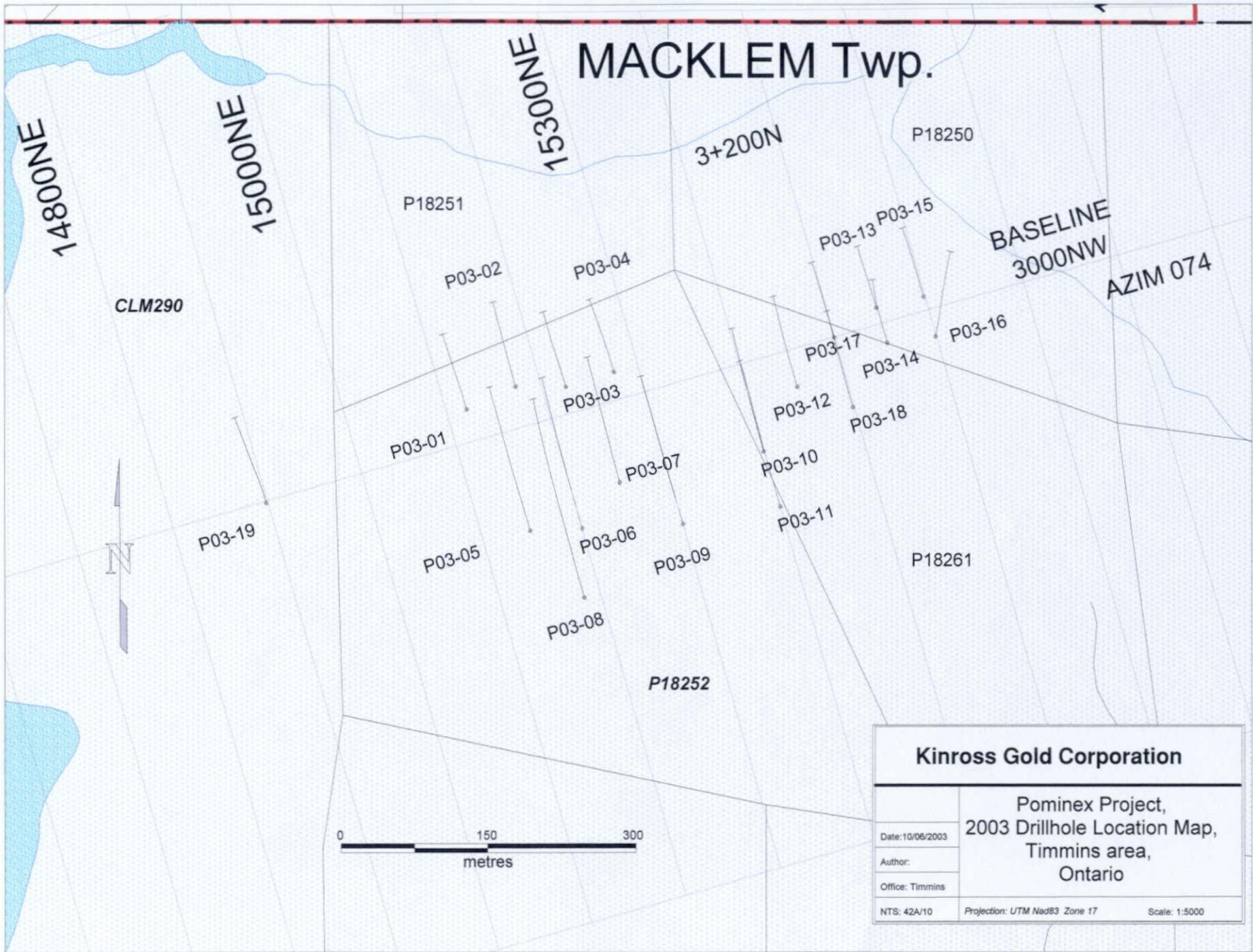
Contact Information:  
Provincial Mining Recorders' Office  
Willett Green Miller Centre 933 Ramsey Lake Road  
Sudbury ON P3E 6B5  
Home Page: [www.mndm.gov.on.ca/MNDMMINES/LANDS/mlsmppge.htm](http://www.mndm.gov.on.ca/MNDMMINES/LANDS/mlsmppge.htm)

Toll Free  
Tel: 1 (888) 415-9845 ext 5779  
Fax: 1 (877) 670-1444

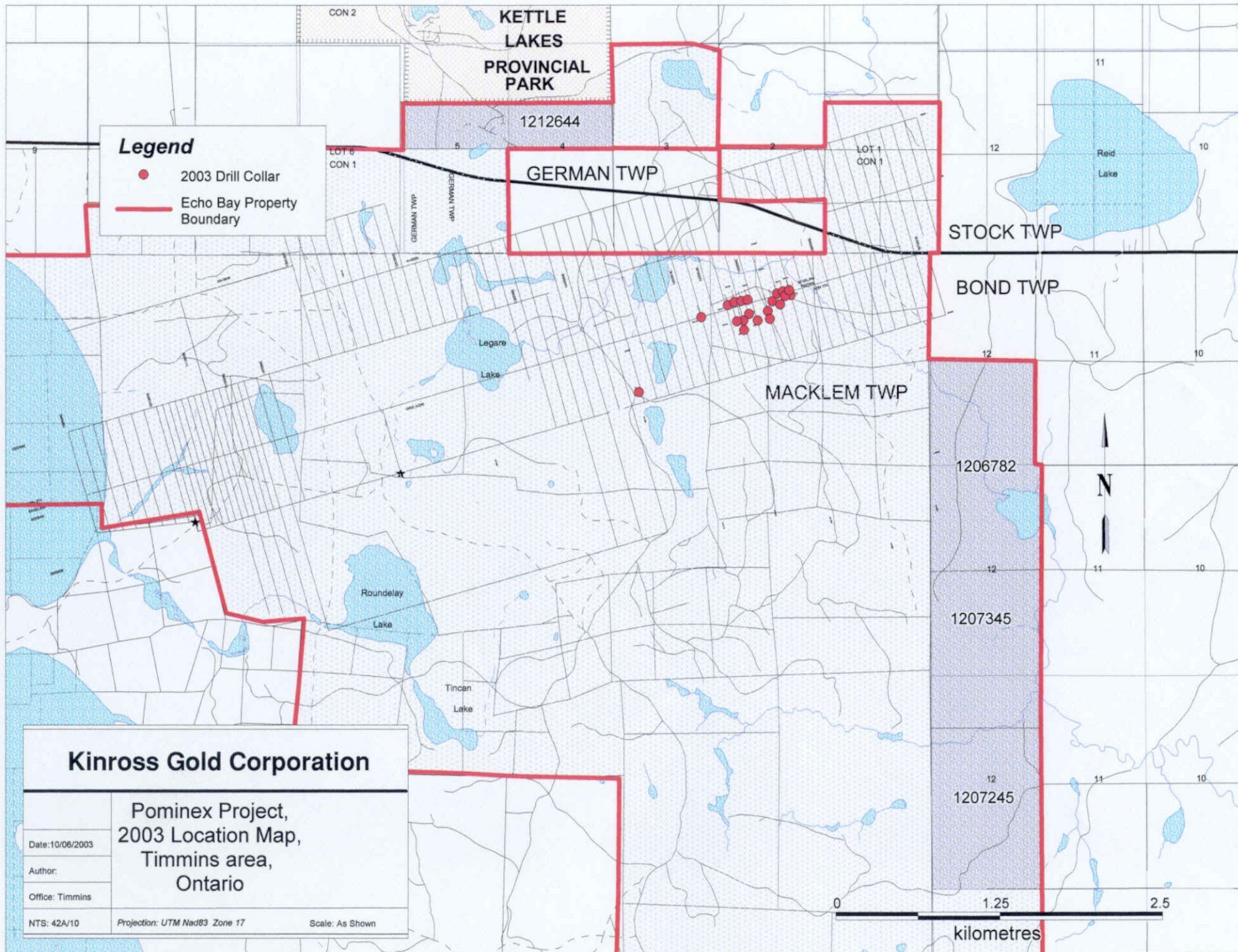
Map Datum: NAD 83  
Projection: UTM (6 degree)  
Topographic Data Source: Land Information Ontario  
Mining Land Tenure Source: Provincial Mining Recorders' Office

This map may not show unregistered land tenure and interests in land including certain patents, leases, easements, right of ways, flooding rights, licences, or other forms of disposition of rights and interest from the Crown. Also certain land tenure and land uses that restrict or prohibit free entry to stake mining claims may not be illustrated.









**Legend**

- 2003 Drill Collar
- Echo Bay Property Boundary

**Kinross Gold Corporation**

Pominex Project,  
2003 Location Map,  
Timmins area,  
Ontario

Date: 10/06/2003

Author:

Office: Timmins

NTS: 42A/10

Projection: UTM Nad83 Zone 17

Scale: As Shown

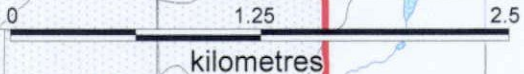


TABLE 2

Bradley Brothes Drill Cost	\$18,121.40
ALS-Chemex Assay Cost	2316.70
Geologist and Geotechs	2750.00
Misc. Field and Office Expenses	100.00
Supervision and Administration	1740.00
<b>TOTAL EXPENSES</b>	<b>\$25,028.10</b>

## **LIST OF PERSONNEL**

**KINROSS GOLD CORPORATION**

**2003 DIAMOND DRILLING PROGRAM  
POMINEX ZONE, AQUARIUS PROJECT  
MARCH 1<sup>ST</sup>, 2003 – APRIL 30<sup>TH</sup>, 2003**

<b>Name</b>	<b>Address</b>	<b>Position / Duties</b>
Paul Degagne	330 Victoria Avenue, Timmins, Ontario	Project Geologist
Ryburn Norman	40 Carleton Place, Timmins, Ontario	Project Geologist
Brad Norman	286 Donna Crescent Timmins, Ontario	Geotech, coresplitting and sampling, environmental
Colin Green	138 Front Street, South Porcupine, Ontario	Geotech, computer support, GPS, and data management

**KINROSS GOLD CORPORATION**

**2003 DIAMOND DRILLING PROGRAM  
POMINEX ZONE, AQUARIUS PROJECT  
MARCH 1<sup>ST</sup>, 2003 – APRIL 30<sup>TH</sup>, 2003**

<b>Name</b>	<b>Address</b>	<b>Position / Duties</b>
Bradley Bros. Limited	Timmins, Ontario	Diamond Drilling
ALS-Chemex Chimitec	Val-d'Or, Quebec	Primary Lab. Sample preparation and assaying
SGS Geochemical Laboratories	Rouyn-Noranda Quebec	Umpire Lab Check Assaying
SGS Lalefield Research	Lakefield, Ontario	Gold Recovery Investigation
GEO LABS	Sudbury, Ontario	Microprobe Study
Rocscience Inc	Toronto, Ontario	Oriented Core Analyses





Date: 01 MAI 2003

Facture N° / Invoice No.: 003000

Page: 3 de 4

Contrat / Job: T1965

À:  
To: KINROSS GOLD CORP.  
Lot 1 Concession 7  
German Township  
Connaugh, Ontario  
P0N 1A0

COPY

AQUARIUS PROPERTY

From April 1 to 15, 2003

P-03-16

0.00	15.00	15.00 metres piping	39.50	592.50
15.00	30.00	15.00 metres piping	44.50	667.50
30.00	45.00	15.00 metres piping	49.50	742.50
45.00	59.00	14.00 metres piping	59.50	833.00
59.00	150.00	91.00 metres	39.50	3,594.50
150.00	212.00	62.00 metres	39.50	2,449.00
Cost to ream in hole				
		6.00 man hours	38.00	228.00
		3.00 machine hours	30.00	90.00
Cost to cement hole on completion				
		2.00 man hours	38.00	76.00
		1.00 machine hour	30.00	30.00
Displacement plug				
		1.00	22.70	22.70
Cement Portland				
		2.00 bags	6.60	13.20
Cost to pull some casing				
		7.00 man hours	38.00	266.00
		3.50 machine hours	30.00	105.00

T.P.S./G.S.T.: #R140192204

T.V.Q./Q.S.T.: #1017522805

Site web/Web Site: www.bradleycoredrilling.com

FORAGE AU DIAMANT / CONTRACT DIAMOND DRILLING

98, 14<sup>e</sup> Rue • C.P. 2367 • Rouyn-Noranda (Québec) J9X 5A9 CANADA  
98, 14<sup>e</sup> Street • P.O. Box 2367 • Rouyn-Noranda, Quebec J9X 5A9 CANADA  
Tél.: (819) 797-0755 • Fax: (819) 797-0916



FACTURE/INVOICE

Date: 01 MAI 2003

Facture N° / Invoice No.: 003000

Page: 4 de 4

Contrat / Job: T1965

À: KINROSS GOLD CORP.  
 To: Lot 1 Concession 7  
 German Township  
 Connaugh, Ontario  
 P0N 1A0

COPY

AQUARIUS PROPERTY				
From April 1 to 15, 2003				
P03-16	Casing left in hole			
	NW casing	7.00 metres	\$ 42.00	\$ 294.00
	NW casing shoe	1.00	225.00	225.00
	Reflex tests			
	68-119-212m	3.00 man hours	38.00	114.00
		1.50 machine hour	30.00	45.00
	Muds used			
	Ultravis	15.00 litres	7.50	112.50
	OBC Polydrill	5.00 litres	7.50	37.50
	133X Polydrill	5.00 litres	7.50	37.50
	GS 550	15.00 bags	17.60	264.00
			<b>TOTAL</b>	<b>\$ 10,839.40</b>

T.P.S./G.S.T.: #R140192204

T.V.Q./Q.S.T.: #1017522805

Site web/Web Site: [www.bradleycoredrilling.com](http://www.bradleycoredrilling.com)

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 Tél.: (819) 797-0755 • Fax: (819) 797-0916





FACTURE/INVOICE

Date: 01 MAI 2003

Facture N° / Invoice No.: 002998

Page: 2 de 5

Contrat / Job: T1965

À:  
To: KINROSS GOLD CORP.  
Lot 1 Concession 7  
German Township  
Connaugh, Ontario  
P0N 1A0

COPY

AQUARIUS PROPERTY

From April 1 to 15, 2003

P-03-15

0.00	15.00	15.00 metres piping	39.50	592.50
15.00	30.00	15.00 metres piping	44.50	667.50
30.00	45.00	15.00 metres piping	49.50	742.50
45.00	60.00	15.00 metres piping	59.50	892.50
60.00	73.00	13.00 metres piping	59.50	773.50
73.00	143.00	70.00 metres	39.50	2,765.00
Cost to cement hole on completion				
		4.00 man hours	38.00	152.00
		2.00 machine hours	30.00	60.00
Displacement plug		1.00	22.70	22.70
Cement Portland		2.00 bags	6.60	13.20
Cost to pull casing				
		4.00 man hours	38.00	152.00
		2.00 machine hours	30.00	60.00
Reflex tests				
83-140m		2.00 man hours	38.00	76.00
		1.00 machine hour	30.00	30.00
Muds used				
Ultravis		5.00 litres	7.50	37.50
GS 550		14.00 bags	17.60	246.40
			<u>TOTAL</u>	<u>\$7283.40</u>

P.S./G.S.T.: #R140192204

T.V.Q./Q.S.T.: #1017522805

Site web/Web Site: www.bradleycoredrilling.com

FORAGE AU DIAMANT / CONTRACT DIAMOND DRILLING

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98, 14<sup>e</sup> Street • P.O. Box 2367 • Rouyn-Noranda, Quebec J9X 5A9 CANADA  
Tél.: (819) 797-0755 • Fax: (819) 797-0916

UF-2835



**ALS Chemex**  
**Chimitec**

#28805

Chimitec  
1322 Harricana  
Val-d'Or, Quebec  
Canada J9P 3X6  
Tel: (819) 825-0175  
Fax: (819) 825-0255

KINROSS GOLD CORP/ AQUARIUS  
PAUL DEGAGNE  
P.O. BOX 551  
TIMMINS, ON P4N 7B7

Invoice : C105942, Page 1

Date : 24-AVR-03

Report No: C03-61581.0

Project : POMINEX

Reference:

HOLE P03-15

RECEIVED  
JUN 1 2003

#100151

2 Analyses of Gold assay on pulp	at \$ 8.82 \$	17.64	
Subtotal	\$	17.64	\$ 17.64
51 Analyses of Gold	at \$ 7.00 \$	357.00	
3 Analyses of Au Reweigh - FA30	at \$ 0.00 \$	0.00	
Subtotal	\$	357.00	\$ 357.00
<b>Sample Preparation</b>			
49 Samples of CRUSH/SPLIT & PULV.	at \$ 5.10 \$	249.90	
49 Samples of SILICA CLEANING	at \$ 1.88 \$	92.12	
2 Samples of SEIVE TEST 10 MESH	at \$ 1.13 \$	2.26	
2 Samples of SEIVE TEST 200 MESH	at \$ 1.13 \$	2.26	
72 Samples of WEIGHING	at \$ 0.30 \$	21.60	
Subtotal	\$	368.14	\$ 368.14
<b>Miscellaneous Charges</b>			
Shipping Charges	\$	70.20	
ADMINISTRATION FEE	\$	22.50	
Subtotal	\$	92.70	\$ 92.70
<b>Total before taxes</b>			\$ 835.48
TAX GST #R878554328	\$	58.48	

Invoice Total:

\$ 893.96 Can.

*Signature*  
16-05-02

PAID FOR PAYEE  
*Ben*  
Pomeroy 0130  
70742.3107

MAKE CHEQUES PAYABLE TO ALS CHEMEX  
ACCOUNT DUE WHEN RENDERED  
1.5% INTEREST PER MONTH WILL BE APPLIED TO OUTSTANDING  
AMOUNTS AFTER 30 DAYS





**ALS Chemex  
Chimitec**

# 28505

Chimitec  
1322 Harricana  
Val-d'Or, Quebec  
Canada J9P 3X6  
Tel: (819) 825-0178  
Fax: (819) 825-0256

KINROSS GOLD CORP/ AQUARIUS  
PAUL DEGAGNE  
P.O. BOX 551  
TIMMINS, ON P4N 7B7

Invoice : C105969, Page 1

Date : 28-AVR-03

Report No: C03-61679.0

Project : POMINEX

Reference: HALE P03-16

**ENTERED**  
JUN 19 2003

#100151

91 Analyses of Gold	at \$ 7.00	\$ 637.00	
5 Analyses of Au Reweigh - FA30	at \$ 0.00	\$ 0.00	
Subtotal		\$ 637.00	\$ 637.00
<b>Sample Preparation</b>			
87 Samples of CRUSH/SPLIT & PULV.	at \$ 5.10	\$ 443.70	
87 Samples of SILICA CLEANING	at \$ 1.88	\$ 163.56	
5 Samples of SEIVE TEST 10 MESH	at \$ 1.13	\$ 5.65	
5 Samples of SEIVE TEST 200 MESH	at \$ 1.13	\$ 5.65	
172 Samples of WEIGHING	at \$ 0.30	\$ 51.60	
Subtotal		\$ 670.16	\$ 670.16
<b>Miscellaneous Charges</b>			
ADMINISTRATION FEE		\$ 22.50	
Subtotal		\$ 22.50	\$ 22.50
Total before taxes			\$ 1329.66
TAX GST #R878554328		\$ 93.08	

Invoice Total:

\$ 1422.74 Can.

*PAID 16-05-03*

*0130*  
*70742.3107*

MAKE CHEQUES PAYABLE TO ALS CHEMEX  
ACCOUNT DUE WHEN RENDERED  
1.5% INTEREST PER MONTH WILL BE APPLIED TO OUTSTANDING  
AMOUNTS AFTER 30 DAYS

Hole ID: P03-15				GRID: Expl.																																		
<b>PROJECT:</b> TENEMENT: 18250 GRID: Expl. LOCATION: Aquarius Project NTS MAP 42A/10 REFERENCE:		<table border="1"> <tr> <th>Reference</th> <th>Easting</th> <th>Northing</th> <th>Azimuth</th> </tr> <tr> <td>Local:</td> <td>15,598.20</td> <td>3,014.00</td> <td>344.0</td> </tr> <tr> <td>UTM:</td> <td>512,725.90</td> <td>5,375,590.10</td> <td>0.0</td> </tr> </table>	Reference	Easting	Northing	Azimuth	Local:	15,598.20	3,014.00	344.0	UTM:	512,725.90	5,375,590.10	0.0	<table border="1"> <tr> <th>core size</th> <th>NQ</th> </tr> <tr> <td>core storage</td> <td>Aquarius Office</td> </tr> <tr> <td># of Boxes</td> <td>18</td> </tr> <tr> <td>length of casing</td> <td>73</td> </tr> </table>	core size	NQ	core storage	Aquarius Office	# of Boxes	18	length of casing	73	<table border="1"> <tr> <td>Drill Contractor:</td> <td>Bradley Bros.</td> </tr> <tr> <td>Drill Rig:</td> <td>Longyear 35</td> </tr> <tr> <td>Date Started:</td> <td>4/3/2003</td> </tr> <tr> <td>Date Finished:</td> <td>4/6/2003</td> </tr> <tr> <td>Logged By:</td> <td>R. Norman</td> </tr> <tr> <td>Relogged By:</td> <td></td> </tr> <tr> <td>Sampled By:</td> <td>B. Norman</td> </tr> </table>	Drill Contractor:	Bradley Bros.	Drill Rig:	Longyear 35	Date Started:	4/3/2003	Date Finished:	4/6/2003	Logged By:	R. Norman	Relogged By:		Sampled By:	B. Norman
Reference	Easting	Northing	Azimuth																																			
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Relogged By:																																						
Sampled By:	B. Norman																																					
<table border="1"> <tr> <th>Elevation</th> <th>Inclination</th> <th>Total Depth</th> <th>pre-collar depth</th> </tr> <tr> <td>283.10</td> <td>-60.00</td> <td>143.00</td> <td>0.00</td> </tr> </table>	Elevation	Inclination	Total Depth	pre-collar depth	283.10	-60.00	143.00	0.00																														
Elevation	Inclination	Total Depth	pre-collar depth																																			
283.10	-60.00	143.00	0.00																																			

Purpose:	POMINEX INFILL DRILLING.
Remarks:	

*** downhole survey data ***				
Depth (m)	Survey method	Azimuth		incl (deg)
		True	Local	
83.00	Reflex	343.0		-59
140.00	Reflex	340.0		-59

** semi-quantitative data key **	
abbrev.	Description
asp	% arsenopyrite
cbnt	% carbonate minerals
chl	% chlorite
gocc	# 5 cm squares containing visible gold
po	% pyrrhotite
py	% pyrite
vqtz	% vein quartz

*** SIGNIFICANT ASSAYS ***				
from	to	width	Sample ID	gpt Au
72.60	73.60	1.00	262363	1.27
73.60	74.10	0.50	262364	3.84
74.10	75.00	0.90	262365	1.31
75.00	76.00	1.00	262366	1.37
76.00	77.00	1.00	262367	1.32
80.80	81.20	0.40	262371	1.65
82.00	83.00	1.00	262373	1.24
83.00	84.00	1.00	262374	1.28
84.00	85.00	1.00	262375	1.97
85.00	86.00	1.00	262376	1.03
86.00	87.00	1.00	262377	1.72
87.00	88.00	1.00	262378	1.96
89.00	90.00	1.00	262382	6.62
90.00	91.00	1.00	262383	1.05
91.00	92.00	1.00	262384	1.39
96.20	97.20	1.00	262390	1.12



Hole ID: P03-15 GRID: Expl.

97.20	97.80	0.60	262391	1.18
97.80	98.80	1.00	262392	1.45
98.80	99.30	0.50	262393	1.09

P03-15		GEOLOGICAL CORE LOG					POINT FEATURES			ASSAY INTERVALS		
depth		MAJOR			MINOR		DESCRIPTION	feature	core angles		SAMPLE ID	Au g/t
from	to	U1	U2	U3	U1	U2			bdg foln	con-tact		
0.00	72.60	OB					Overburden/casing. Casing to 73.0.					
72.60	94.80	FPp		3.7			POMINEX PORPHYRY: 20-30% feldspar phenocrysts in fine to medium grained groundmass typical of the central portion of the Porphyry. Pale to light yellow-green; weakly sericitised. Minor weak albitisation in patches and along fractures.; rusty-brown oxidation along fractures throughout. 5-10% chloritic fractures in places and minor quartz veining 20 degrees LCA in places; 1-5% oxidised pyrite throughout.					
72.60	73.60						porphyry				262363	1.27
73.60	74.10						porphyry				262364	3.84
74.10	75.00						porphyry				262365	1.31
75.00	76.00						porphyry				262366	1.37
76.00	77.00						porphyry				262367	1.32
77.00	78.60					FZ	Badly broken core and fault gouge.					
77.00	78.60						porphyry				262368	0.99
78.60	78.90	FPp	Bx				Breccia healed by quartz infill.					
78.60	79.60						porphyry				262369	0.38
78.90	79.60	FPp	Ab				Strongly albitised with 10% chloritic fractures and 5% oxidised pyrite.					
79.60	80.80						porphyry				262370	0.96
80.80	81.20					MD	Mafic dike -badly broken core.					
80.80	81.20						porphyry				262371	1.65
81.20	82.00						porphyry				262372	0.96
82.00	83.00						porphyry				262373	1.24
83.00	84.00						porphyry				262374	1.28
83.80	84.00						Badly broken core.					
84.00	86.60					Db	Diabase Dike. Fine to medium grained; grey-green; weakly magnetic. 84.0-86.6: 50% badly broken core. 91.9-93.6: 90% badly broken core.					
84.00	85.00						porphyry				262375	1.97
85.00	86.00						porphyry				262376	1.03
86.00	87.00						porphyry				262377	1.72
87.00	88.00						porphyry				262378	1.96
88.00	89.00						porphyry				262379	0.92
89.00	90.00						porphyry				262382	6.62
90.00	91.00						porphyry				262383	1.05
91.00	92.00						porphyry				262384	1.39
92.00	93.00						porphyry				262385	0.69
93.00	94.00						porphyry				262386	0.76
94.00	95.00						porphyry				262387	0.32

P03-15		GEOLOGICAL CORE LOG						POINT FEATURES			ASSAY INTERVALS	
depth		MAJOR			MINOR		DESCRIPTION	feature	core angles		SAMPLE ID	Au g/t
from	to	U1	U2	U3	U1	U2			bdg foln	con-tact		
94.80	113.00	Fpp		3.7			POMINEX PORPHYRY: Typical of the lower portion of the Porphyry with sparse to 5% feldspar phenocrysts in aphanitic matrix. Pale green with weak to moderate albitisation in places. Abundant chloritic fractures in various directions imparting a pseudobreccia appearance in places.					
95.00	95.70						porphyry				262388	0.38
95.70	96.20	Fpp	Ab				Strongly albitised to greyish white with chloritic fractures at 20 to 90 degrees to LCA and trace to 2% pyrite.					
95.70	96.20						porphyry				262389	0.22
96.20	97.20						porphyry				262390	1.12
97.20	97.80						porphyry				262391	1.18
97.30	97.50	MD					Mafic Dike: Fine grained; grey; in-contact 85 degrees LCA. Out-contact 35 degrees LCA. 2-3% pyrite.					
97.80	98.80						porphyry				262392	1.45
97.90	98.00	MD					Mafic dike: as previous; 5-10% disseminated pyrite.					
98.80	99.30						porphyry				262393	1.09
99.30	98.90	MD					Mafic Dike: as above, 2-3% disseminated pyrite.					
99.30	100.30						porphyry				262394	0.78
100.30	101.30						porphyry				262395	0.08
100.50	101.00	MD					Mafic dike: as above; 1-2% disseminated pyrite.					
101.30	102.30						porphyry				262396	0.67
102.30	103.30						porphyry				262397	0.47
103.30	104.30						porphyry				262398	0.39
103.60	103.80	MD					Mafic Dike; Dark green-black; 5-10% fine disseminated pyrite.					
103.80	104.70	Fpp	Ab				Strongly albitised; minor fracturing and veining.					
104.30	105.30						porphyry				262399	0.21
105.30	106.30						porphyry				262402	0.24
106.30	107.30						porphyry				262403	0.81
107.30	108.30						porphyry				262404	0.10
107.40	107.70	Fpp	Ab				Albitised as 103.8 to 104.7.					
108.30	109.30						porphyry				262405	0.04
109.30	110.30						porphyry				262406	0.02
110.30	111.30						porphyry				262407	0.01
111.30	113.00						porphyry				262408	0.02
111.50	113.00						90% badly broken core.					
113.00	143.00	MVpv		5.4			PILLOWED VARIOLITIC MAFIC VOLCANICS: Typical with well defined pillow margins marked by coalescing varioles. Grey to grey-green and brownish green locally. 120.0 to 124.4: Massive flow					
113.00	114.00						mv				262409	0.01
114.00	115.00						mv				262410	0.01

P03-15							GEOLOGICAL CORE LOG			POINT FEATURES			ASSAY INTERVALS	
depth		MAJOR			MINOR		DESCRIPTION			feature	core angles		SAMPLE ID	Au g/t
from	to	U1	U2	U3	U1	U2					bdg foil	contact		
	115.00	116.00											262411	0.01
	116.00	117.00											262412	0.01



Hole ID: P03-16	GRID: Expl.
-----------------	-------------

PROJECT :  
 TENEMENT: 18250  
 GRID: Expl.  
 LOCATION: Aquarius Project  
 NTS MAP 42A/10  
 REFERENCE:

Reference	Easting	Northing	Azimuth
Local:	15,599.00	2,972.00	16.0
UTM:	512,738.30	5,375,549.90	0.0
Elevation	Inclination	Total Depth	pre-collar depth
281.80	-65.00	212.00	0.00

core size	NQ
core storage	Aquarius Office
# of Boxes	37
length of casing	59

Drill Contractor:	Bradley Bros.
Drill Rig:	Longyear 35
Date Started:	4/8/2003
Date Finished:	4/14/2003
Logged By:	P Degagne, R Norman
Relogged By:	
Sampled By:	B.Norman

Purpose: POMINEX INFILL DRILLING  
 Remarks:

*** downhole suvey data ***				
Depth (m)	Survey method	Azimuth		incl (deg)
		True	Local	
68.00	Sperry-Sun	13.0		-66
119.00	Reflex	14.0		-66
212.00	Reflex	17.3		-65

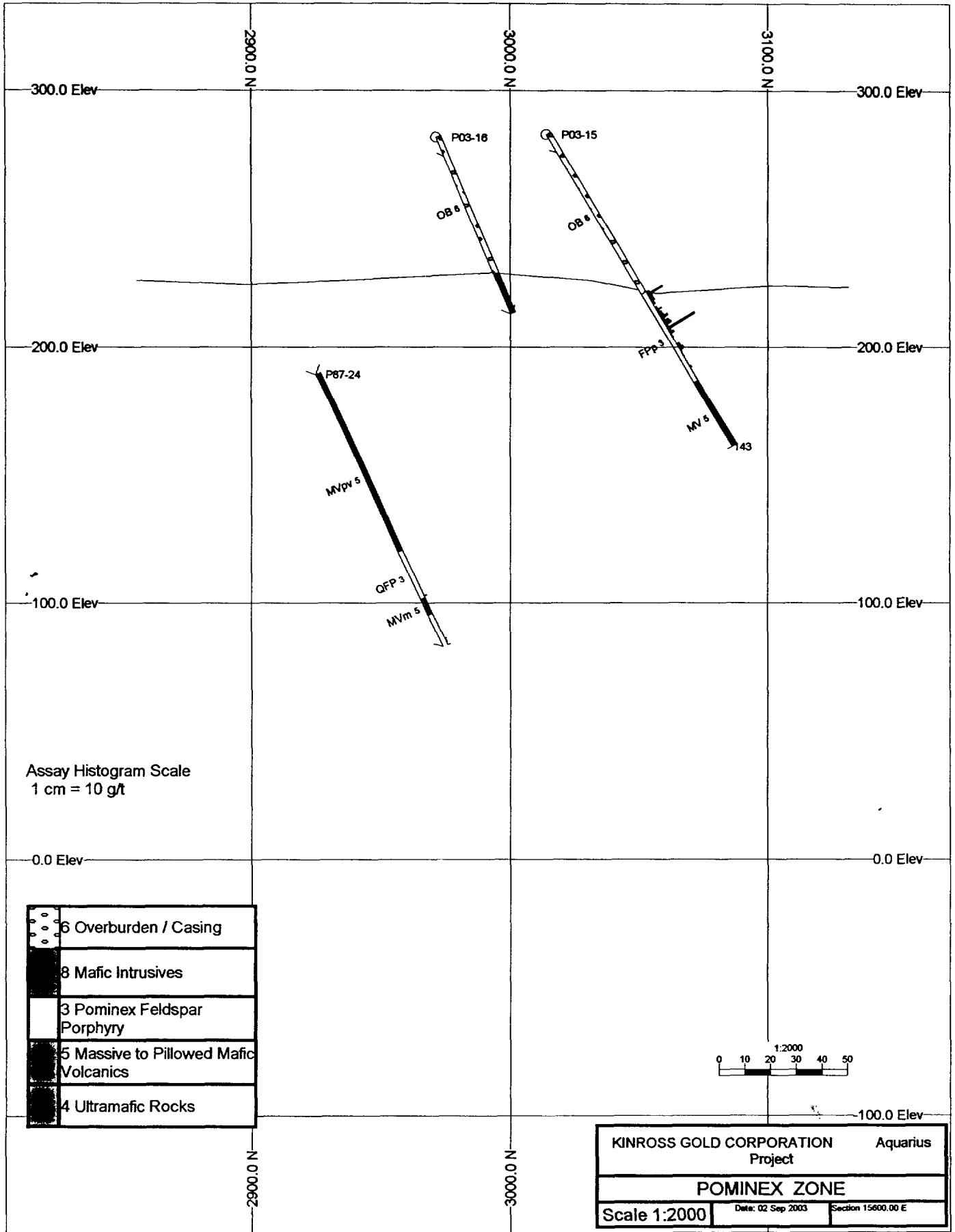
P03-16		GEOLOGICAL CORE LOG						POINT FEATURES			ASSAY INTERVALS	
depth		MAJOR			MINOR		DESCRIPTION	feature	core angles		SAMPLE ID	Au g/t
from	to	U1	U2	U3	U1	U2			bdg foln	con-tact		
111.00	112.00						pominex				262610	0.01
112.00	113.00						pominex				262611	0.02
113.00	114.00						pominex				262612	0.10
114.00	115.00						pominex				262613	0.02
115.00	116.00						pominex				262614	0.21
116.00	117.00						pominex				262615	0.23
117.00	118.00						pominex				262616	0.01
118.00	119.00						pominex				262617	0.01
119.00	120.00						pominex				262618	0.01
120.00	121.00						pominex				262619	0.00
121.00	122.00						pominex				262622	0.00
122.00	123.00						pominex				262623	0.00
123.00	124.20						pominex				262624	0.00
124.20	124.60						pominex				262625	0.00
124.60	125.95						pominex				262626	0.00
125.95	126.85						pominex				262627	0.00
126.85	127.85						pominex				262628	0.04
127.85	128.85						pominex				262629	0.03
128.85	129.85						pominex				262630	0.14
129.85	130.85						pominex				262631	0.33
130.85	131.85						pominex				262632	0.05
131.85	132.85						pominex				262633	0.03
132.85	134.00						pominex				262634	0.00
134.00	135.00						pominex				262635	0.02
135.00	136.00						pominex				262636	0.04
136.00	137.00						pominex				262637	0.09
137.00	138.00						pominex				262638	0.01
138.00	139.00						pominex				262639	0.00
139.00	140.00						pominex				262642	0.20
140.00	141.00						pominex				262643	0.00
141.00	142.00						pominex				262644	0.00
142.00	143.00						pominex				262645	0.00
143.00	144.00						pominex				262646	0.00
144.00	145.00						pominex				262647	0.03
145.00	146.00						pominex				262648	0.00
146.00	147.00						pominex				262649	0.02
147.00	148.00						pominex				262650	0.14

P03-16		GEOLOGICAL CORE LOG						POINT FEATURES			ASSAY INTERVALS		
depth		MAJOR			MINOR		DESCRIPTION	feature	core angles		SAMPLE ID	Au g/t	
from	to	U1	U2	U3	U1	U2			bdg foln	con-tact			
	0.00	58.70					Casing/Overburden; Casing to 59 meters.						
58.70	93.80	MVpv			5.1		PILLOWED VARIOLITIC MAFIC VOLCANICS: Typical; Light green to grey-green; fine-grained with variolitic rims.						
	68.00	71.00				MD	Mafic Dike: Fine grained, massive; irregular contacts.						
	82.70	93.80				MVpv Chl	Dark green and strongly chloritic and weakly talcose locally; Probably massive flow ( non-variolitic). Out-contact with Porphyry irregular.						
	91.00	92.00					mv				262588	0.00	
	92.00	93.00					mv				262589	0.02	
	93.00	94.00					mv				262590	0.04	
93.80	156.20	Fpp	Sr,Ab				POMINEX PORPHYRY: Medium green to light green with yellow green patchy weak albitisation locally. Generally aphanitic with 3-5% feldspar phenocrysts typical of the upper portion of the Porphyry; becomes coarser grained and more feldspar rich from 108.0 to 110.3. Fairly abundant ( up to 10%) hairline to mm albitised quartz veining and chloritic fractures ( with fine pyrite locally) throughout. Fracturing and veining 20-30 degrees LCA in at least 2 directions. To 133 : Pervasive sericite and patchy albitisation with chloritic micro-fractures at variable angles to LCA but predominantly 45 degrees (others at 20 degrees and 0 degrees). " Fresh" looking feldspar phenocrysts up to 10%. Very minor to nil fine disseminated pyrite. Minor albite alteration. Tr to nil fine disseminated pyrite. Mafic dikes fine to med grained, massive green from 124.2-124.6 and from 124.95-126.85.						
	94.00	96.90				Fpp	Ab,Si	Greyish green; moderately albitised and siliceous with minor chloritic fractures with pyrite locally; albitisation mostly along fractures and in minor patches.					
	94.00	95.00						pominex				262591	0.02
	95.00	96.00						pominex				262592	0.00
	96.00	97.00						pominex				262593	0.00
	97.00	98.00						pominex				262594	0.00
	98.00	99.00						pominex				262595	0.01
	99.00	100.00						pominex				262596	0.01
	100.00	101.00						pominex				262597	0.02
	101.00	102.00						pominex				262598	0.02
	102.00	103.00						pominex				262599	0.00
	103.00	104.00						pominex				262602	0.00
	104.00	105.00						pominex				262603	0.00
	105.00	106.00						pominex				262604	0.00
	106.00	107.00						pominex				262605	0.00
	107.00	108.00						pominex				262606	0.00
	108.00	109.00						pominex				262607	0.10
	109.00	110.00						pominex				262608	0.04
	110.00	111.00						pominex				262609	0.03

P03-16		GEOLOGICAL CORE LOG					POINT FEATURES			ASSAY INTERVALS		
depth		MAJOR			MINOR		DESCRIPTION	feature	core angles		SAMPLE ID	Au g/t
from	to	U1	U2	U3	U1	U2			bdg foln	con-tact		
	148.00	149.00					pominex				262651	0.05
	149.00	150.00					pominex				262652	0.20
	150.00	151.00					pominex				262653	0.16
	150.60	156.20				FPp	Ab,Si					
							Moderate to strong albitisation in sections and ranging from pale greenish white to white. Moderately fractured with trace to 1% pyrite mostly along fractures. Note: 155.0 to 156.2, Abundant albitised and chloritic microfractures. 40-45 degrees LCA.					
	151.00	152.00					pominex				262654	0.05
	152.00	153.00					pominex				262655	0.01
	153.00	154.00					pominex				262656	0.01
	154.00	155.00					pominex				262657	0.03
	155.00	156.00					pominex				262658	0.01
	156.00	157.00					pominex				262659	0.00
156.20	171.10	FPp					POMINEX PORHYRY: Gradational from previous; Sparse to 3% feldspar phenocrysts in aphanitic groundmass typical of the lower portion of the Porphyry. Out-contact sharp at 60 degrees LCA.					
	156.20	160.00					Dark greyish green and strongly siliceous and albitised with strong chloritic fracturing.					
	157.00	158.00					pominex				262662	0.00
	158.00	159.00					pominex				262663	0.00
	159.00	160.00					pominex				262664	0.00
	160.00	163.20					Light to olive green with the normal amount of albitised fractures ranging from 20 to 90 degrees to LCA.					
	160.00	161.00					pominex				262665	0.01
	161.00	162.00					pominex				262666	0.00
	162.00	163.00					pominex				262667	0.16
	163.00	164.00					pominex				262668	0.43
	164.00	165.00					pominex				262669	0.14
	165.00	168.00				FPp	Ab,Si					
							Strongly to intensely albitised to off-white over 75% of section with remaining portion mostly albitised along fractures and grey-green in colour. Generally, fairly abundant albitised hairline chloritic fractures 20-30 degrees to LCA with similar fractures and streaks 45 degrees LCA and orthogonal to the 20-30 set. Also abundant quartz-carb veins 25-35 degrees to LCA. Disseminated pyrite ranges from sparse to 3% pyrite. 165.0 to 165.7: mafic dikelet.					
	165.00	166.00					pominex				262670	0.46
	166.00	167.00					pominex				262671	0.15
	167.00	168.00					pominex				262672	0.52
	168.00	169.00					pominex				262673	0.09
	169.00	170.00					pominex				262674	0.04
	170.00	171.10					pominex				262675	0.01
	171.10	171.40					FAULT BRECCIA: Healed fault breccia with angular to sub-angular mafic to felsic fragments (up to 3cm in size) in a medium grained matrix of similar composition.					

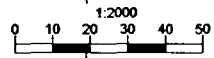


P03-16							GEOLOGICAL CORE LOG		POINT FEATURES		ASSAY INTERVALS	
depth		MAJOR			MINOR		DESCRIPTION	feature	core angles		SAMPLE ID	Au g/t
from	to	U1	U2	U3	U1	U2			bdg foln	con-tact		
	171.10	172.10					mv				262676	0.00
171.40	204.90	MVpv					PILLOWED VARIOLITIC MAFIC VOLCANICS: Typical light green to green-grey with well defined pillow rims. 201.5 to 202.4: Badly broken core along a chloritic-talcosed shear subparallel to LCA.					
	172.10	173.10					mv				262677	0.01
204.90	212.00	UM/M		4.3			ULTRAMAFIC TO MAFC: Massive, dark grey-green to black; fine to medium grained; strongly chlorite and weak to moderately talcosed. 208.7 to 212.0: Well foliated sheared volcanics at 40-45 degrees LCA. Light to pale olive green in colour- serpentine and sericite?					

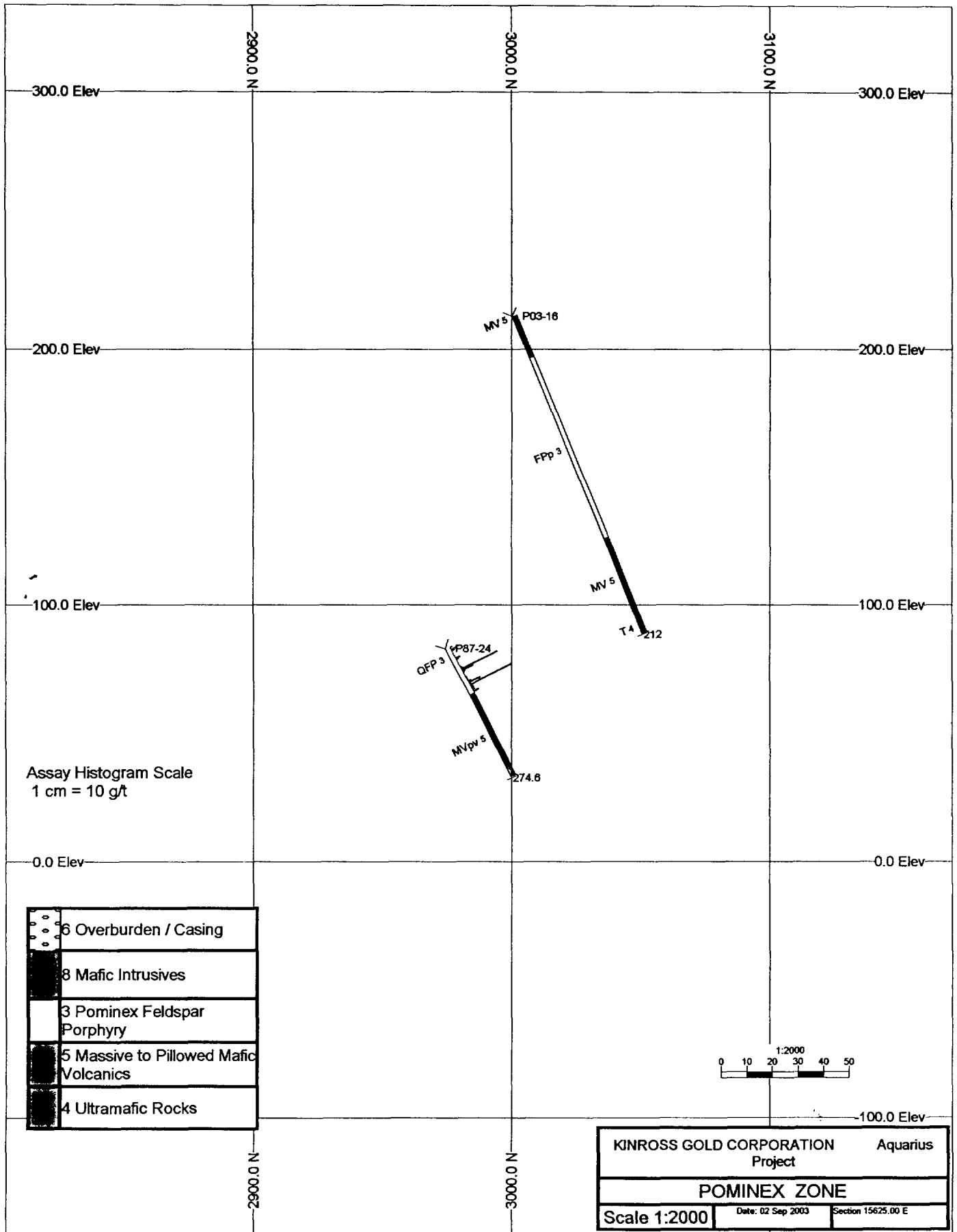


Assay Histogram Scale  
1 cm = 10 g/t

6	Overburden / Casing
8	Mafic Intrusives
3	Pominex Feldspar Porphyry
5	Massive to Pillowed Mafic Volcanics
4	Ultramafic Rocks

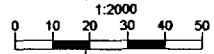


KINROSS GOLD CORPORATION		Aquarius
Project		
<b>POMINEX ZONE</b>		
Scale 1:2000	Date: 02 Sep 2003	Section 15600.00 E



Assay Histogram Scale  
1 cm = 10 g/t

6	Overburden / Casing
8	Mafic Intrusives
3	Pominex Feldspar Porphyry
5	Massive to Pillowed Mafic Volcanics
4	Ultramafic Rocks



KINROSS GOLD CORPORATION		Aquarius Project
<b>POMINEX ZONE</b>		
Scale 1:2000	Date: 02 Sep 2003	Section 15625.00 E





Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines



Date: 2003-OCT-15

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

ECHO BAY MINES LTD.  
P.O. BOX 551  
TIMMINS, ONTARIO  
P4N 7E7 CANADA

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

**Submission Number:** 2.26456  
**Transaction Number(s):** W0360.01618

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.

This correspondence replaces the approval letter dated September 08, 2003 (2.26204, W0360.01369). The reason for the replacement correspondence was the assessment work was reported and approved on the wrong claims.

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,

A handwritten signature in black ink that reads "Ron C Gashinski".

Ron C. Gashinski  
Senior Manager, Mining Lands Section

**Cc:** Resident Geologist  
Echo Bay Mines Ltd.  
(Claim Holder)

Assessment File Library  
Echo Bay Mines Ltd.  
(Assessment Office)



42A10SW2032 2.26456 MACKLEM

200

ONTARIO CANADA

MINISTRY OF NORTHERN DEVELOPMENT AND MINES  
PROVINCIAL MINING RECORDERS' OFFICE

Mining Land Tenure Map

Date / Time of Issue: Wed Oct 15 15:10:58 EDT 2003

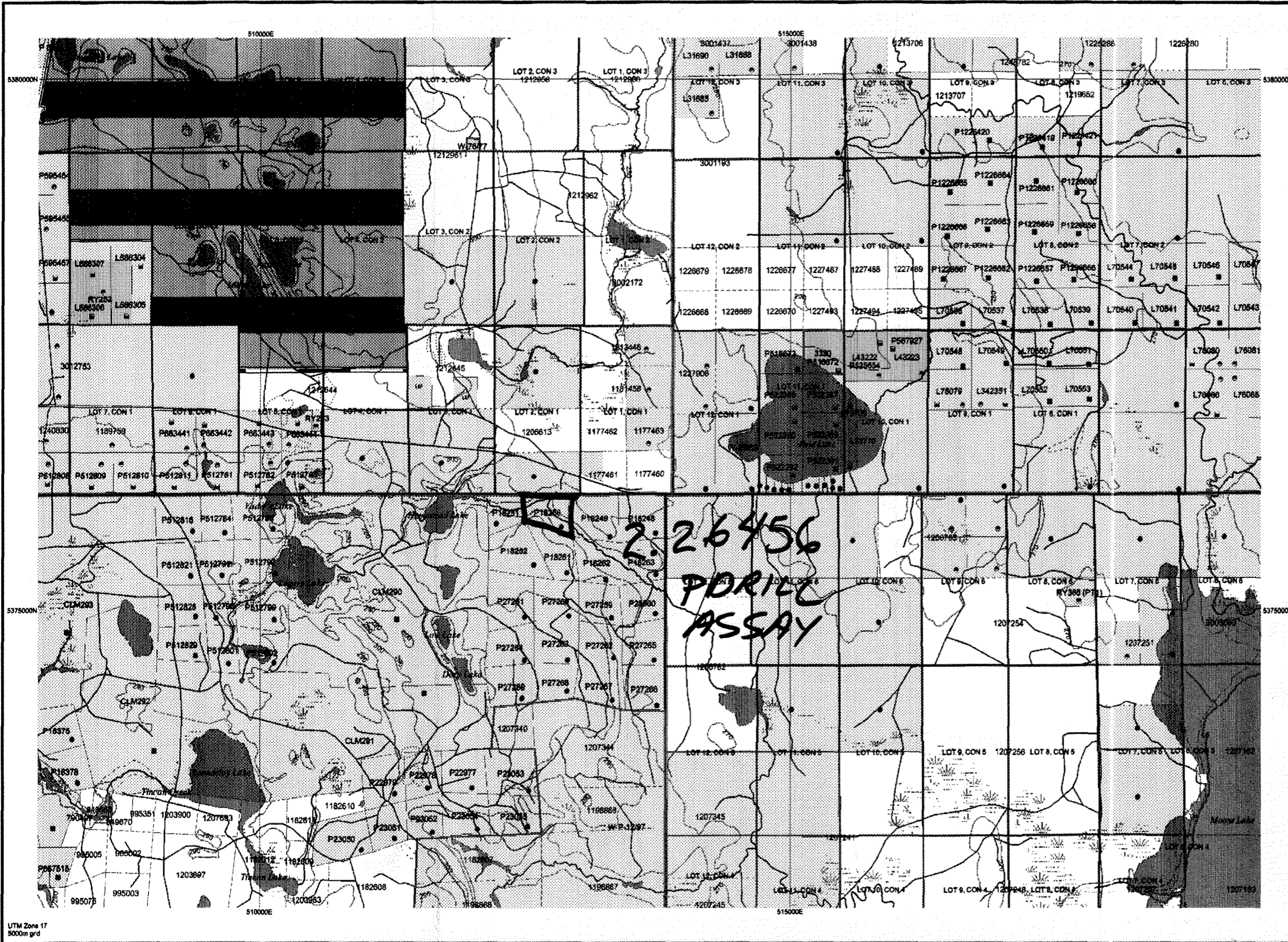
TOWNSHIP / AREA  
GERMAN

PLAN  
G-3992

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division  
Land Titles/Registry Division  
Ministry of Natural Resources District

Porcupine  
COCHRANE  
TIMMINS



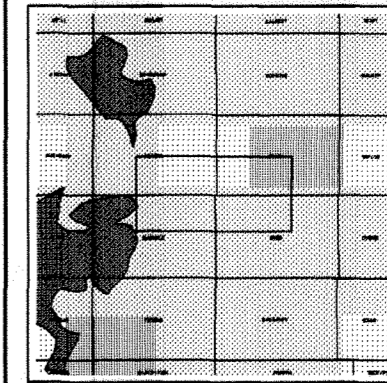
2.26456  
PDRILL  
ASSAY

TOPOGRAPHIC

- Administrative Boundaries
- Township
- Concession, Lot
- Provincial Park
- Indian Reserve
- Chm. Pli & Pie
- Contour
- Mine Shafts
- Mine Headframe
- Railway
- Road
- Trail
- Natural Gas Pipeline
- Utilities
- Tower

Land Tenure

- Freehold Patent
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Leasehold Patent
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- License of Occupation
  - Uses Not Specified
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
  - Land Use Permit
  - Order In Council (Not open for staking)
  - Water Power Lease Agreement
  - Mining Claim
  - Filed Only Mining Claims
- LAND TENURE WITHDRAWALS
  - Area Withdrawn from Disposition
  - Mining Act Withdrawal Types
    - Surface And Mining Rights Withdrawn
    - Surface Rights Only Withdrawn
    - Mining Rights Only Withdrawn
  - Order In Council Withdrawal Types
    - Surface And Mining Rights Withdrawn
    - Surface Rights Only Withdrawn
    - Mining Rights Only Withdrawn
- IMPORTANT NOTICES



LAND TENURE WITHDRAWAL DESCRIPTIONS

Identifier	Type	Date	Description
3330	Wem	Jan 1, 2001	RESERVE FOR RECREATIONAL PURPOSES S.R.O. 188543 UNDER SEC. 3 P.L.A
3395	Wem	Jan 1, 2001	SURFACE AND MINING RIGHTS WITHDRAWN FROM PROSPECTING, STAKING
W-25/83	Wm	Jul 15, 1983	Sec. 1 W-25/83 July 15/83 M.R.O. reservation under the Beds of Navigable V
W-70/77	Ws	Jan 1, 1980	SURFACE RIGHTS ONLY WITHDRAWN UNDER SECTION 43 OF THE MINING AC
W-L-C-1687	Wem	Nov 21, 2001	Mining and Surface rights withdrawal Section 35 of the Mining Act RSO 1989 Order
W-P-12/87	Ws	May 2, 1987	SURFACE RIGHTS ONLY WITHDRAWN FROM PROSPECTING, STAKING OUT, U
W-P-56/83	Wem	Sep 27, 1993	SURFACE AND MINING RIGHTS WITHDRAWN FROM PROSPECTING, STAKING

Those wishing to stake mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Northern Development and Mines for additional information on the status of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information shown on this map is compiled from various sources. Completeness and accuracy are not guaranteed. Additional information may also be obtained through the local Land Titles or Registry Office, or the Ministry of Natural Resources.

General Information and Limitations

Contact Information:  
Provincial Mining Recorders' Office  
Willie Green Miller Centre 933 Ramsey Lake Road  
Sudbury ON P3E 6B5  
Home Page: www.nmdm.gov.on.ca/MNDMMINEBLANDS/mimnmpge.htm

Toll Free  
Tel: 1 (888) 415-9845 ext 57  
Fax: 1 (877) 670-1444  
Map Datum: NAD 83  
Projection: UTM (9 degree)  
Topographic Data Source: Land Information Ontario  
Mining Land Tenure Source: Provincial Mining Recorders' Office

This map may not show unregistered land tenure and interests in land including certain patents, leases, easements, right of ways, flooding rights, licences, or other forms of disposition of rights and interest from the Crown. Also certain land tenure and land uses that restrict or prohibit free entry to stake mining claims may not be illustrated.