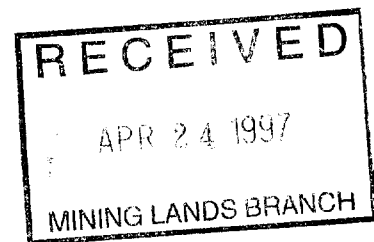


**REPORT ON PROSPECTING ON THE  
BARRY McCOMBE GRENFELL-EAST GROUP,  
GRENFELL TOWNSHIP  
FOR THE YEARS 1995 & 1996.**

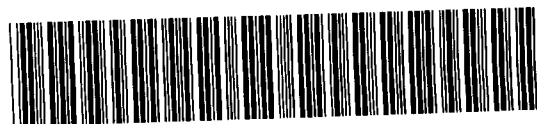
2.17310



**PREPARED BY: F.R. PLOEGER, B.Sc., FGAC**

**APRIL 11, 1997**

*Qual. #  
2.3993*



42A01NE0308 2.17310 GRENFELL

**LOCATION:** The McCombe- east group, located in east central Grenfell Township (G- 3212), comprises 4 claims numbered 1205805, 1206258, 1206271 and 1206272 for a total of 10 units. The group is located at approximately 80° 11' W longitude and 48° 08' N latitude (NTS 561000E & 533100N).

**ACCESS:** Access to the southern part of the east group is by boat on the Blanche River or by 4x4 on a bush road following the north bank, both which intersect the south boundary of claim 1206272. The northern and eastern parts of the group may be reached by travelling west along the Goldthorpe Road from the Macassa mine property using a 4- wheeler and then taking an old bush road south.

**GEOLOGY:** The south part of Grenfell Twp was mapped by Thomson (1950) and the entire township by Grant (1962). A report on the McCombe- west group was published following a property visit by Guindon (Meyer et. al., 1995). According to these earlier publications, the area is underlain by massive and pillowed mafic flows of probable Mg-tholeiitic Kinojevis Group affinity with local fragmental interflow units. Coarse-grained massive flow units often are gabbroic-textured. The overall strike of the mafic assemblage in the vicinity of the claims is approximately 330° with dips and tops facing steeply east. Regional metamorphism has altered the flows to lower greenschist facies.

**ECONOMIC GEOLOGY:** The economic geology of Grenfell Twp was summarized by Grant as gold occurring in quartz veins with sulphides and some carbonate. Guindon quoted old reports that describe an association of gold mineralization with northwest trending shear zones on the claim group and the former Four Nations mine.

There is no previous work recorded on file with the Resident Geologist in Kirkland Lake for the area covering the McCombe- east group. However, work recorded on, and adjacent to, the McCombe-west and east groups describing significant results is summarized below:

a) Mylake Mines Ltd sank a shaft on a quartz vein structure about 3000' north of the east group. Assays from the first level of the mine yielded chip samples of 0.91/2.1' over a strike length of 57 feet;

b) A report written in 1960 by H.D. McLeod of Sogemines Development Co. Ltd. for the Legace Showing (file KL 1550) described a showing exposed by bulldozing and trenching which has subsequently been covered. He reported values from 11 samples, 10 of which averaged \$4.00 (0.115 opt) with a range of \$1.75 (0.05 opt) to \$6.65 (0.19 opt) and one that assayed \$16.80 (0.48 opt);

c) In 1975, the Grenfell Syndicate (file KL 1049) put down one hole near the end of the dump road near the current north boundary of the claim group. All values were trace;

d) A series of new and old trenches east of the access road to the Nor-Gro Nursery and the dump access road were stripped, blasted and sampled by Grant Sirola (file KL 2512) in 1980. According to the reports, the pits were put down on carbonatized and mineralized quartz veins. Values from the various trenches ranged from tr to 0.183 ppt with several in the 0.12-0.16 opt range ;

e) Between 1981 and 1985, Orcana Minerals (file KL 2512) performed a number of different surveys on the Sirola group including magnetometer and VLF-EM (1981), geological

(1983), and basal till (1983). Although no significant conductors or new showings were located with the surveys, and the best value from the basal till survey was 127 ppb, two follow-up diamond drill holes were collared in 1984 & 1985. Both holes intersected mafic flows containing local narrow quartz/quartz carbonate veins to 12" with minor pyritic halos and values to 0.005 & 0.016 opt respectively;

f) Immediately north of the McCombe-west group, Grenfell Kirkland Gold Mines Ltd sank 2 shafts on quartz veins and silicified mafic volcanics with assays on the shaft walls returning values to 95.5 OPT. Drilling of 18 short holes in the vicinity of the shafts gave assays to 0.567/3' ;

g) The Trembley claim which is located between the 2 southerly claims of the McCombe-west group, has yielded grab samples ranging up to 2.76 OPT and channel samples of 0.255/2.6' over a strike length of 51' ;

h)) 4 short holes drilled near the bend in the gas pipeline by Hecmac Syndicate (file KL 1114). The best value returned 0.10/3.5' in a silicified, brecciated zone;

i) Extensive work was done on the Four Nations property between the southern parts of the two McCombe groups. Chip samples from trenches north of the Blanche River returned 0.25/7.8' over a 200 foot length while face samples of a development drift on the 375' level yielded 0.277/2' over 200 feet.

**PROSPECTING:** Both the McCombe west and east groups were prospected by Mr McCombe and his assistant/ helper in 1995 and 1996. In 1995, work on the west group was performed from May 21 to 29 while in 1996, it was done intermittently between June 6 and 30. The prospecting was combined with stripping and sampling of old trenches and areas of interest. In total, Mr McCombe logged 4 days prospecting and his helper, 4 days in 1995 and 4 days each, respectively, in 1996 including 2 days of beep map prospecting. Mr McCombe's assistant for all of these trips was Ernie Chi Chi.

Traverses initially followed the old roads and claim lines (see attached map), until Mr McCombe became familiar with the terrain and topography. He then began traverses into the central portions of the east group trying to avoid the low swampy areas. Old trenches and pits were investigated and flagged for follow-up cleaning/ stripping and sampling. Several grab samples of host rock and mineralized vein material were taken during the traverses for comparison with samples from the west group. The enclosed map shows traverse lines and the pits and trenches encountered.


The McCombe- east group was divided approximately in half by large low swampy areas which also underlie most of claim 1205805 on the west side. The only area of significant outcrop exposures was found in the central part of the group between the two major swamps. Outcrops consisted mainly of massive mafic flows with local pillowed and fragmental zones. Several old pits and trenches were located on the west side of the outcrop ridge mentioned above and beside the road along the east boundary of the claim group.

As a result of the extensive prospecting and follow-up stripping of old trenches, pits and areas of interest, particularly on the west group, Mr McCombe was able to option all of his claims to a major company in early 1997.

## QUALIFICATIONS

I, FRANK R. PLOEGER, DECLARE THAT:

- 1) I reside at 71 Ninth Avenue in Larder Lake, Ontario, Canada, P0K 1L0;
- 2) I graduated from Queens University in Kingston in 1973 with a B.Sc degree in Applied Science (Geology);
- 3) I have practiced my profession as a geologist continuously since graduation;
- 4) I am a Fellow of the Geological Association of Canada;
- 5) I twice visited the property and examined and documented most of the pertinent areas referred to in this report;
- 6) This report and the associated costs are based on information such as receipts, work records, assay certificates, etc. supplied by Mr McCombe as well as interviews with Mr McCombe and personal knowledge of the property from the two site visits mentioned above.

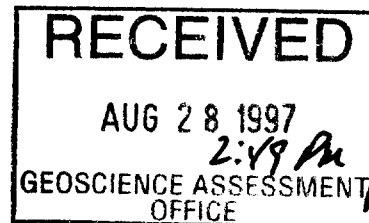
  
F.R. Ploeger, B.Sc, FGAC

1-Apr-18/97

GRENFELL EAST GROUP - PROSPECTING  
Submission Number: 2.17310

**REVISIONS**

- ◆ Beep mat results
- ◆ Description of nature and content of work
- ◆ Licence numbers and signatures from the men who performed the work
- ◆ Location and descriptions of outcrops visited
- ◆ Overburden descriptions



## **SUMMARY OF BEEP MAT SURVEYING**

The beep mat traverses were conducted by B. McCombe and his assistants for a total of 6 consecutive days (May 8 - May 13, 1996). A copy of the "free rental contract" with the ministry has been included.

Mr. McCombe conducted several days of traversing with the beep mat, and reported a nearly constant ringing with no discernable zones being established. Mr. McCombe then went back to the resident geologist's office in Kirkland Lake to speak with geologist Mr. David Guindon (567-5242). The following day Mr. Guindon accompanied Mr. McCombe on traverses with the beep mat. Based on personal observations, Mr. Guindon reported to Mr. McCombe that the sulphides in the rocks on the claims being prospected were too fine to be detected by the beep map, and that abnormally high magnetite concentrations in the rocks accounted for the constant ringing of the beep map.

## **CONCLUSIONS**

- ◆ Sulphides in the rocks are too fine to be detected by the beep mat.
- ◆ Abnormally high magnetite concentrations in the rocks make use of the beep mat unbeneficial in this area.

Between: HER MAJESTY THE QUEEN IN RIGHT OF THE PROVINCE OF ONTARIO,  
as requested by the Ministry of Northern Development and  
Mines, here-in-after designated "the Ministry".

and: Barry McCombe (Name)

84 McHenry Ave (Address)

Kirkland Lake Ont

P2N 2K8 (Postal Code)

Tel: (705) 568-8502 Fax: ( ) \_\_\_\_\_

Driver's Licence Number \_\_\_\_\_  
here-in-after designated "the prospector".

1. The Ministry provides this Beep Mat to the prospector with no charge to use for a period of 5 consecutive days (maximum of 7 consecutive days). The prospector is an independent contractor, not paid by any incorporated company nor paid as a consultant.
2. Before using the Beep Mat, the prospector shall read the instruction manual and if possible, have taken the field course on the proper use of the Beep Mat.
3. If the Beep Mat is stolen or lost or damaged, while in the possession of the prospector, the provision of the full replacement value, or repairs of the Beep Mat is the responsibility of the prospector.
4. The prospector, forever releases, discharges, holds harmless and indemnifies HER MAJESTY THE QUEEN IN RIGHT OF THE PROVINCE OF ONTARIO, her officers, employees, servants, agents and volunteers, from and against any and all claims, demands, costs, losses, damages, actions, suits, or other proceedings, arising out of or in consequence of the prospector's use of the Beep Mat, including special consequential damages, which may be made or brought against any of them by any person including the prospector.

Dated at Kirkland Lake this 8 day of May, 1996

[Signature]  
Witness's Signature )

Barry McCombe  
User's Signature )

David Gaudin  
Witness's Name (Print) )

Beep Mat Serial Number \_\_\_\_\_

MINISTRY OF NORTHERN DEVELOPMENT AND MINES per [Signature]

to be returned Monday May 13

**GRENFELL EAST GROUP - PROSPECTING**

August 21, 1997

This is to certify that all reported information related to prospecting on the Grenfell East group of claims is a fair and reasonably accurate account of work that I personally conducted and supervised on the dates listed in the report.

B. McCombe Barry McCombe

This certifies that the following person listed below, did in fact assist Mr. McCombe with prospecting on the Grenfell <sup>east</sup> ~~west~~ group of claims. B. M.

E. Chi Chi E. Chi Chi (1/6 2200)





BLUELINE

DATE June 19 1996

RECEIVED FROM  
REÇU DE

B. McCombe

2 days wage 200~~00~~ DOLLARS

FOR POUR Boat motor Rental 125<sup>00</sup>

FROM DE To Ernie Chi Chi

\$ 325<sup>00</sup>

BY PAR Ernie Chi Chi

25508



# Declaration of Assessment Work Performed on Mining Land

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

Transaction Number (office use)
W9780.00317
Assessment Files Research Imaging

Personal information collected Mining Act, the information is a Questions about this collectio 933 Ramsey Lake Road, Sudb



42A01NE0308 2.17310 GRENFELL

900

he Mining Act. Under section 8 of the correspond with the mining land holder. Development and Mines, 6th Floor,

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

2.173 0

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

Name	KINROSS GOLD CORPORATION	Client Number	130666
Address	40 KING ST W. 56th FLOOR	Telephone Number	416-365-5123
	TORONTO, ONT M5H 3Y2	Fax Number	
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	PROSPECTING - GOLD (GRENFELL EAST)	Office Use
Dates Work Performed	From 21 05 95 To 30 06 96	Commodity
Global Positioning System Data (if available)	NTS - 561000 E 5331000 N	Total \$ Value of Work Claimed
Township/Area	GRENFELL TWP	NTS Reference
M or G-Plan Number	C-3212	Mining Division
		Resident Geologist District

RECEIVED 2726.<sup>00</sup> APR 24 1997  
MINING DIVISION KIRKLAND LAKE

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	F.R. PROEGER 4/ KINROSS GOLD CORP.	Telephone Number	705-567-5208
Address	Box 550 KIRKLAND LAKE, ONT, P2N 3J7	Fax Number	705-568-3136
Name		Telephone Number	
Address		Fax Number	
Name		Telephone Number	
Address		Fax Number	

RECEIVED APR 21 PM 1 49 MINING DIVISION KIRKLAND LAKE

### 4. Certification by Recorded Holder or Agent

I, F.R. PROEGER (Print Name), 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	Date	Apr 19/97
Agent's Address	Telephone Number	Fax Number

see above

Deemed - July 20/97

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.

W9790.00317

2726

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 1205805 <sup>HP</sup>	2	680	92	588	
2 1206258	3	680	491	189 <sup>HP</sup>	— <sup>HP</sup>
3 1206271	4	680	1600 <sup>HP</sup>	—	—
4 1206272	1	686	400	143	143 <sup>HP</sup>
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
Column Totals		2726	2183	920	143

4 claims  
10 units

RECEIVED  
APR 24 1997  
MINING LANDS BRANCH

I, F. R. PLOEGER, 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 Recorded Holder or Agent/Authorized in Writing [Signature] Date Apr 19/97

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):  
 from 1206258 first  
 1206272 2nd  
 1206271 3rd.

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  
 97 APR 21 PM 1 49  
 MINING DIVISION  
 LAUDER LAKE

Deemed Approved Date July 21/97 Date Notification Sent  
 Date Approved [Signature] Total Value of Credit Approved  
 Approved for Recording by Mining Recorder (Signature)

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, the 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 the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work <small>Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.</small>	Cost Per Unit of work	Total Cost
<b>PROSPECTING - GRENFELL EAST.</b>			
B. McCOMIBE	4 days	@ 150 <sup>00</sup> / day	600
HELPER	4 "	" 100 <sup>00</sup> "	400
B. Mc COMIBE	4 "	" 150 <sup>00</sup> "	600
HELPER	4 "	" 100 <sup>00</sup> "	400
<b>Associated Costs (e.g. supplies, mobilization and demobilization).</b>			
RENTALS		300	300
SUPPLIES - maps, reports, stationery etc			71
Report & maps / consultation			200
<b>RECEIVED</b>			
APR 24 1997			
MINING LANDS BRANCH			
<b>Transportation Costs</b>			
GAS			99
<b>Food and Lodging Costs</b>			
MEALS			56
<b>Total Value of Assessment Work</b>			<b>\$2726 =</b>

**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. If this situation applies to your claims, use the calculation below:

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. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

**Certification verifying costs:**

I, F. R. PLOEGER (please print full name), 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 AGENT - KINROSS GOLD CORP. I am authorized (recorded holder, agent or state company position with signing authority) to make this certification.

Signature 	Date Apr 19/97
---------------	-------------------

September 23, 1997

KINROSS GOLD CORPORATION  
40 KING STREET WEST  
56TH FLOOR  
TORONTO, Ontario  
M5H-3Y2

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

Telephone: (888) 415-9846  
Fax: (705) 670-5863

Dear Sir or Madam:

**Submission Number: 2.17310**

**Status**

**Subject: Transaction Number(s):** W9780.00317 Approval After Notice

---

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.

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 Bruce Gates by e-mail at [gates\\_b@torv05.ndm.gov.on.ca](mailto:gates_b@torv05.ndm.gov.on.ca) or by telephone at (705) 670-5856.

Yours sincerely,



ORIGINAL SIGNED BY  
Blair Kite  
Supervisor, Geoscience Assessment Office  
Mining Lands Section

# Work Report Assessment Results

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**Submission Number:** 2.17310

**Date Correspondence Sent:** September 23, 1997

**Assessor:** Bruce Gates

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<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W9780.00317	1200393	GRENFELL	Approval After Notice	September 01, 1997

**Section:**

9 Prospecting PROSP

The revisions outlined in the Notice dated July 18, 1997, have for the most part been corrected. Accordingly, assessment work credit has been approved as outlined on the Declaration of Assessment Work Form accompanying this submission.

**Correspondence to:**

Resident Geologist  
Kirkland Lake, ON

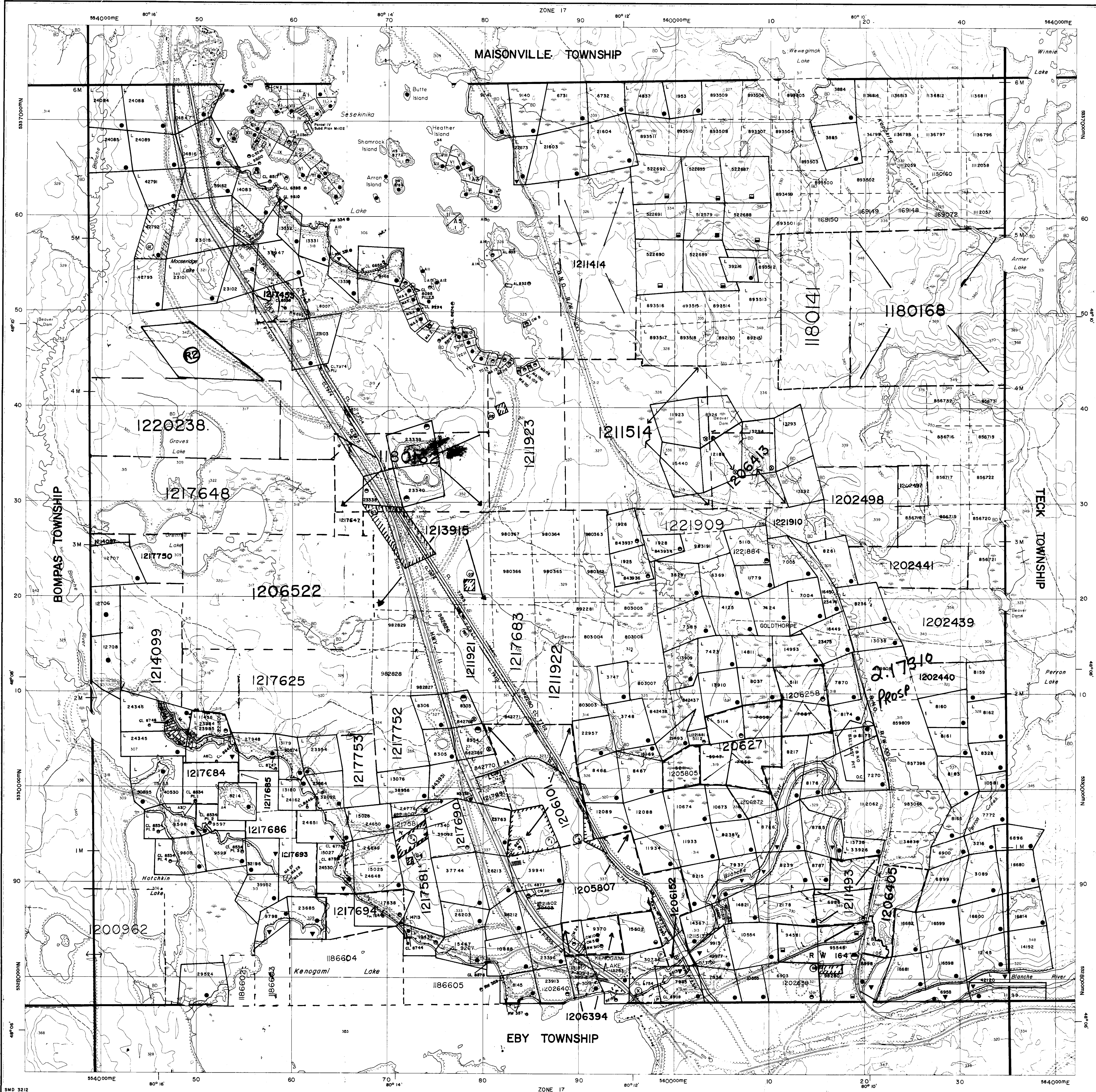
**Recorded Holder(s) and/or Agent(s):**

Alastair C. Still  
KIRKLAND LAKE, ON, CANADA

Assessment Files Library  
Sudbury, ON

KINROSS GOLD CORPORATION  
TORONTO, Ontario

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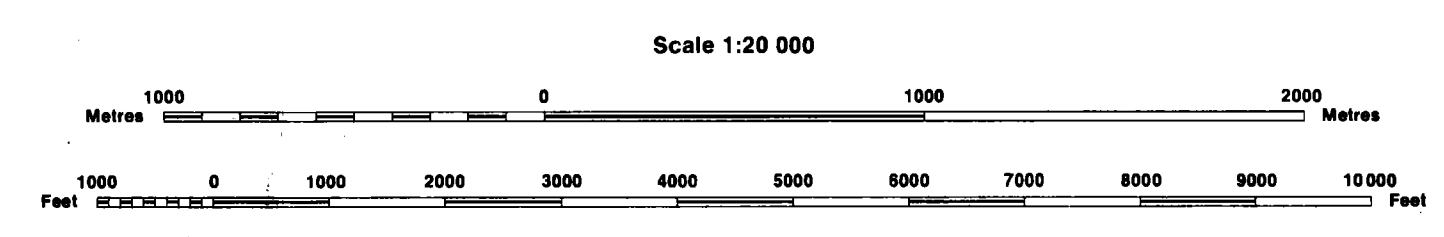


Ministry of Natural Resources Ontario / Ministry of Northern Development and Mines

INDEX TO LAND DISPOSITION

PLAN G-3212 TOWNSHIP GRENFELL

M.N.R. ADMINISTRATIVE DISTRICT KIRKLAND LAKE MINING DIVISION LARDER LAKE LAND TITLES/REGISTRY DIVISION TIMISKAMING



SYMBOLS table listing various symbols for boundaries, roads, parcels, and other features.

AREAS WITHDRAWN FROM DISPOSITION

- List of areas withdrawn from disposition including Mining Rights Only, Surface Rights Only, and Mining and Surface Rights.

NOTES section containing administrative information and forestry activity notices.

DISPOSITION OF CROWN LANDS

Table detailing the disposition of crown lands, including categories like Patent, Lease, and Licence of Occupation.

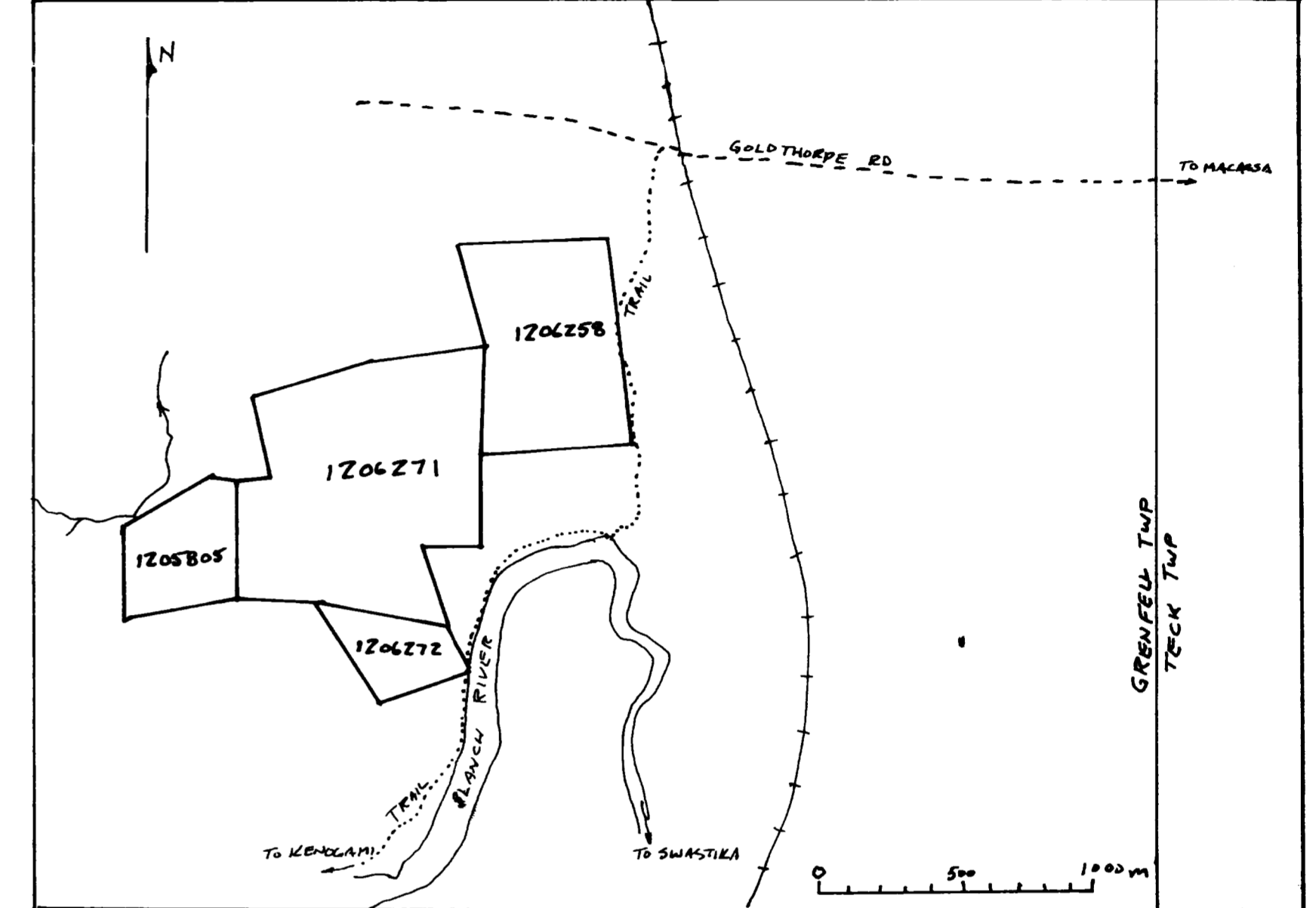
ARCHIVED JUNE 12, 1996 / CIRCULATED AUG. 11, 1992 B.R.B. / ARCHIVED DECEMBER 12, 1994

Map base and land disposition drafting by Surveys and Mapping Branch, Ministry of Natural Resources. The disposition of land, location of lot fabric and parcel boundaries on this index was compiled for administrative purposes only.

G-3212 / GRENFELL TWP / G-3212



TO GOLDTHORPE ROAD



LOCATION PLAN - McCOMBE EAST GROUP 1:20,000

VEGETATION & OVERBURDEN

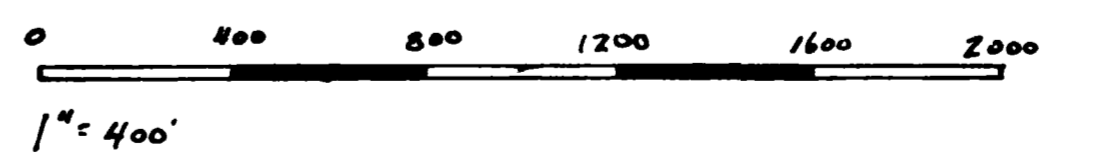
- A- No outcrop. Mainly mature poplar with minor spruce and jackpine. Solid high ground.
- B- No outcrop. Dense mature spruce and jackpine with minor poplar and cedar. High sandy ground.
- C- No outcrop. Mainly mature and scrubby cedar with minor spruce and jackpine. Low poorly drained ground.
- D- No outcrop. Mature spruce and jackpine with very little brush cover. Well drained sandy soil.
- E- No outcrop. Scrubby bush with mainly tag alder and small poplar. Low poorly drained areas.

OUTCROP DESCRIPTIONS - GEOLOGY

- 2 Dark Green Volcanics: Mafic volcanics, locally with pillow features, fine to medium grained.

**KEY**

- CLAIM LINE
- CREEK
- LOW SWAMPY AREA
- OLD TRAIL
- OUTCROP AREA
- TRENCHES/PITS
- PROSPECTING LINE
- BEED MAP TRAVERSE
- STRIPPING/DIMENSIONS



PLAN - PROSPECTING & STRIPPING  
 McCOMBE EAST GROUP  
 GRENFELL TWP

2.17310

2:48 PM

