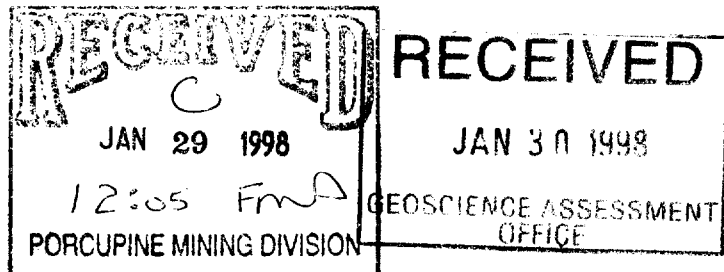


Kinross Gold Corporation  
Progress Report  
1997 Diamond Drilling  
Matheson Project  
International Larder Option  
Matheson Township, Ontario

November, 1997  
John M. Kovala  
Geologist



42A10SW0121 2.18129 MATHESON

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Hole MA97-4 Central Grid Section 21+00E  
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Hole MA97-3 Central Grid  
Hole MA97-6 Central Grid



42A10SW0121 2.18129 MATHESON

010C

## Summary

In 1997, a total of six diamond drill holes were completed for a total of 1691 meters in two separate campaigns on the International Larder, Matheson Township Properties optioned by Kinross Gold Corporation. The properties consist of five claim blocks containing from two to sixty-one claims each. Work completed included; data compilation, relogging of old holes and diamond drilling. Drill targets were selected from existing data and old grids used for control.

Two holes MA97-1 and MA97-2 were drilled on the Matheson South Grid, a block of six claims located over stratigraphy equivalent to the Hoyle deposit. The holes targeted the north dipping mafic volcanic sequence located on the north flank of an east-west trending anticline. Previous drilling on the South Grid and on the adjacent Birker, Burkhardt properties had encountered anomalous gold values in up to three separate gray zones within the mafic volcanic sequence.

The drilling confirms the extension and consistency of the Hoyle stratigraphy to the east including the presence of two gray zones in hole MA97-1 but no discrete gold bearing structures were identified. The gray zones returned no significant assays. The assay results greater than 1g/t include; two samples from MA97-1 at 3.39g/t/1.0m and 2.95g/t /1.0m and three samples from MA97-2 at 2.03g/t/1.5m, 1.90g/t/1.5m and 1.43g/t/1.5m. All five samples were within erratic fine pyrite mineralized mafic flows.

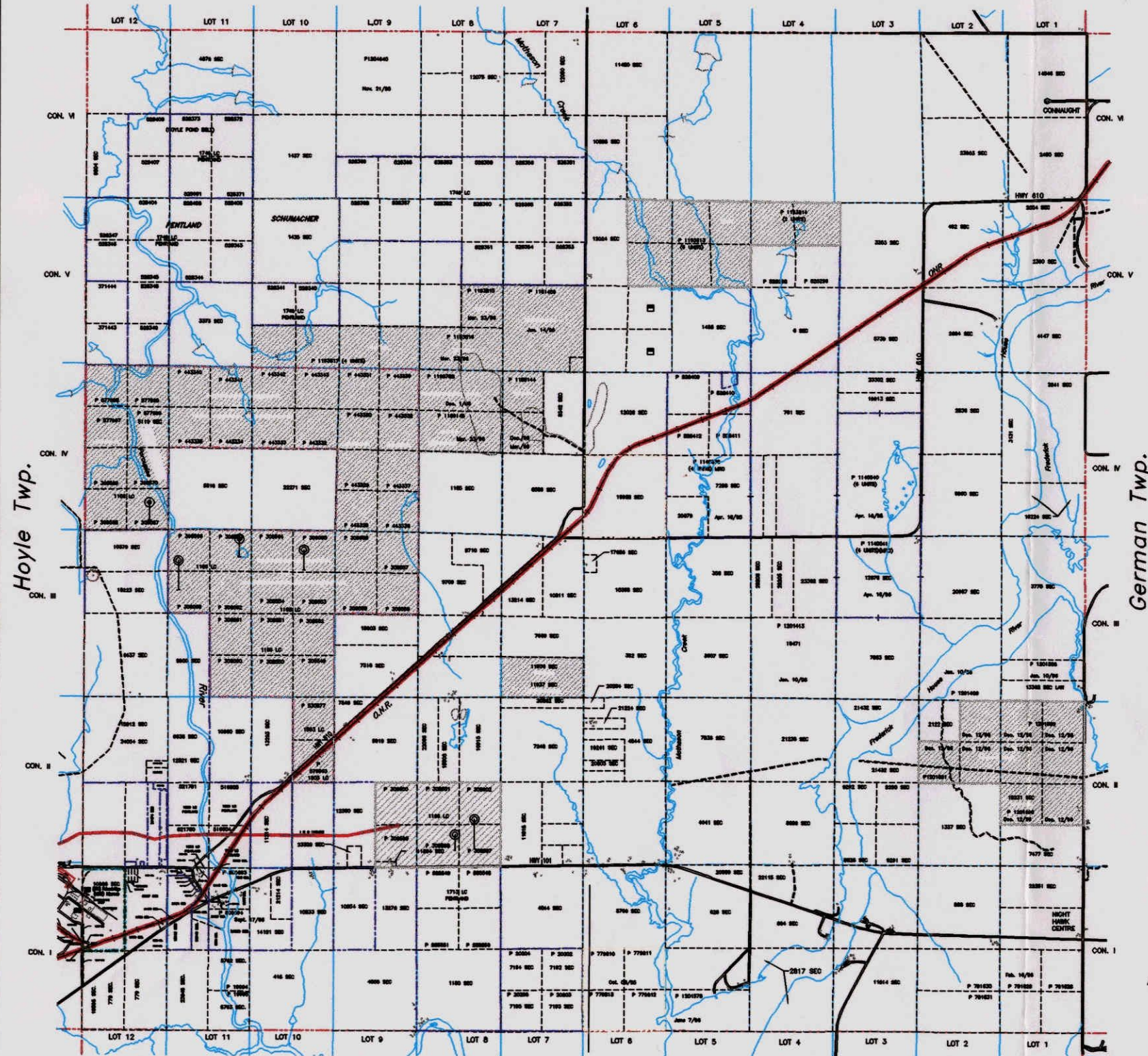
Four drill holes completed on the 61 claim Matheson Central Grid targeted mafic volcanics in an east-west trending anticline. General geology is similar to the Hoyle stratigraphy with an anticline axis interpreted as passing through the property. The anticline has a Timiskaming group volcanic core flanked to the north and south by younger Porcupine Group sediments.

Targets were chosen from a combination of stratigraphy, geophysics and reverse circulation anomalies. Holes MA97-3 and MA97-4 drilled on the Central Grid's south mafic sediment contact both intersected a weak gray zone within 25 meters of the volcanic-sediment contact. No significant alteration, veining or mineralization was observed. No results greater than 1.0 g/t were encountered in hole MA97-3. Assay results greater than 1.0 g/t in hole MA97-4 include 1.1 g/t/1m and 1.91 g/t/0.9m. Stratigraphy is consistent with two previous holes drilled along the contact.

Hole MA97-5, drilled farther to the north and lower in the mafic stratigraphy along the south flank of the anticline, intersected dominantly pillowed mafics and ultramafics with no significant assay results. Hole MA97-6, targeting the mafic stratigraphy along the north flank, intersected entirely mafic volcanics returning no significant assay results.



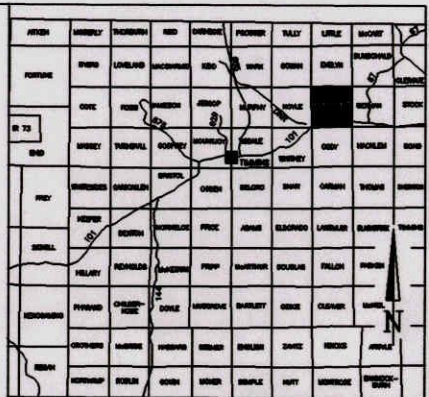
Evelyn Twp.



Hoyle Twp.

German Twp.

Cody Twp.



INDEX MAP



International Larder Minerals Inc.

**NOTE:**  
All Relevant Data Required to Produce  
This Drawing was supplied by Kinross Gold Corp.

**KINROSS GOLD CORP.**  
Regional Exploration Office Timmins ONTARIO

MATHESON TOWNSHIP  
**International Larder Minerals Inc.**



WORKSHEET	A.L.R.	DATE	05/97	W/S	PROJECT
DRAWN	A.L.R.	DATE	05/97	MAP No.	CLM/MAT
SUPERVISOR	R. Brewster	DATE	05/97	SCALE	1:50,000
REVISION		DATE	01/08/98		



## **Conclusions and Recommendations**

### Matheson South Grid

The two holes drilled extend the Hoyle stratigraphy to the east. The gold bearing gray zones encountered on the Birker, Burkhardt properties and in previous drilling on the western portion of the South Grid are consistent within the mafic sequence and continue to line 30+00East in hole MA97-1. The two gray zones encountered in hole MA97-1 returned no significant assay results but the consistency of the stratigraphy presents untested potential to the east. Anomalous gold values up to 3.39 g/t in fine pyrite mineralized flows appears inconsistent but does reflect the presence and potential for higher grade mineralization.

With the strong history of production from this stratigraphic package and the limited drilling to date, further in-fill drilling and holes to test the eastern on-strike potential are warranted.

### Matheson Central Grid

The two holes drilled on the south mafic volcanic sediment contact both intersected a weak gray zone within 25 m of the contact. The stratigraphy is consistent and the gray zones were identified in the relogging of two previously drilled holes 79-1 and 76-2.

Drilling lower in the mafic stratigraphy, along the south flank and along the north flank of the anticline, returned no significant alteration or mineralization.

Relogging of hole 79-1 suggests that much of the northern flank of the anticline on the east portion of the property is highly carbonate, masking the original rock characteristics.

Large portions of the property have yet to be tested. With only seven holes within the volcanic sequence and the similarity to typical Hoyle stratigraphy, further drilling is required. Holes testing the mafic volcanics proximal to the graphite sediment contact are a priority. Additional overlapping holes lower in the stratigraphy are also warranted.

### Matheson East and North Blocks

Both of these claim areas are primarily underlain by porcupine sediments, with a small portion being underlain by volcanics. Historically the volcanics located along the margin of the sediments would be a preferred target. However, previous drilling in these areas has met with limited success.

No work beyond this compilation was proposed as higher priority targets were present on the Southern and Central grids.

## **Location and Access**

The South Grid is located in the southwest quarter of Matheson Twp., 27 km east of Timmins. Access is excellent. 2.1km east of the Hwy 610 turn off, a 400m gravel road leads to the center of the property .The ICG pipeline crosses the central portion of the property.

The central grid covers a large portion of the central western half of Matheson Twp. Access is available from the Passaw Farm. A dirt road, located 1.2 km north along Hwy 610 from the junction with Hwy 101, leads to a field and the start of a series of drill roads that cross the property.

The Central Grid west of the Porcupine River can be accessed from the road that defines the east side of the Falconbridge tailings pond.

The east claim block is located along the east boundary of Matheson Township primarily in the north ½ of lots 1 and 2 concession II . Access to this clock is gained by travelling north of Hwy 101 on the Connaught road, for a distance of 1.2 Km.

The North block is located in Concession V covering the north ½ of lot 5, the east ½ of the north ½ of lot 6 and the north ¼ of the north ½ of Lot 4. Access to this block is most easily gained by traveling north on the Ice Chest Lake road for 2.8 km., then walking east for 400 metres.

## **Topography**

Relief on the South grid is approximately three meters. The land falls to the west with the west central portion of the property being flat and wet, dominated by tag alders and black spruce. A low-lying north-south esker forms the topographic high on the east side of the property. Mixed forest dominates. A small beaver pond is located 300m north of the end of the road on the north central portion of the property.

Most of the Central Grid is flat. Limited relief occurs where creek channels have cut into the overburden.

Water is available from the Porcupine River and several centrally located beaver ponds.

The central and east part of the block is very flat and covered by tag alder swamp. Large poplars and mixed forest are dominant in areas with moderate drainage.

## **Property Geology**

### South Grid

The South Grid consists of six claims along stratigraphy equivalent to the Hoyle deposit.

No outcrop is present and all geological interpretations are based on drilling and geophysics.

An east-west anticline axis is interpreted to occur in the center of the ultramafic horizon, which stratigraphically underlies a sequence of mafic volcanics and younger sediments.

Extensive drilling by Falconbridge on the Birker, Burkhardt and Passaw properties has intersected several mineralized traceable horizons, "gray zones", occurring within the mafic sequence. The gray zones extend east onto the six-claim group.

From north to south, drilling has intersected sediments, graphite, mafic volcanics with intercalated gray zones and ultramafics. The sequence repeats itself on the opposite side of the anticline.

The mafic volcanics contain massive flows, pillowed flows, variolitic flows, flow breccia and gray zones. Variolitic flows and mg amphibolitic flows are distinct but not traceable from hole to hole.

Typically two to three gray zones are intersected within the mafic volcanics, with the strongest mineralization occurring in the two gray zones approximately 30 meters stratigraphically above the mafic-ultramafic contact. Toward the base of the mafic sequence, the rocks become medium grained massive, increasingly carbonate, talc-chlorite and sericite altered. The contact between the mafics and ultramafics is diffuse, overprinted by the carbonate alteration.

Results from four previous holes, drilled on the south claim block, indicate that the stratigraphy is consistent but individual flows and gray zones are difficult to line up from section to section in part due to the wide drill spacing. In the previously drilled holes, VG and the highest assay results occur within the gray zones along narrow quartz veins and associated with pyrite, pyrrhotite and arsenopyrite.

Geophysics includes MAG and IP, clearly outlining the major rock type changes. The northern sediment (graphitic), mafic contact shows up as a resistivity low. The lowest portion of the mafic section responds as a resistivity high.

### Central Grid

The block overlies Tisdale group volcanics and Porcupine group sediments. No outcrops are present in the area. Interpretation of geophysics and drilling indicate that an east trending anticline axis passes through the property with a volcanic core, flanked to the north and south by the younger sediments. The volcanic



sequence, rock types and descriptions parallel the typical Hoyle stratigraphy noted on the south grid. Geophysical coverage including IP, MAG and EM, correlates well with previous drilling results outlining the major contacts.

Of the four drill holes completed in 1997, two holes, MA97-3 and MA97-4, targeted the mafic volcanics proximal to the graphitic sediment contact along the south limb of the anticline. The contact strikes east north-east and dips 70 degrees north. The holes intersected typical massive to pillowed mg-tholeiite flows, variably pillowed, variolitic and fuchsite altered. Within 25 meters of the graphitic sediment contact, a weak gray zone was encountered in both holes. Review of previously drilled holes, 79-1 and 76-2, revealed similar zones in the same stratigraphic location. Only minor quartz carbonate stringers and trace sulphides were noted. Assay results returned no significant values within the gray zones.

Hole 97-5, drilled north of the contact testing the volcanic stratigraphy lower in the sequence, encountered mainly mg-tholeiite flows, a minor ultramafic section and no significant assay results.

Hole 97-6 was drilled on the west side of the claim block, on the west side of the Porcupine river, targeting the mafic volcanics along the north limb of the anticline. Typical mafic volcanics with no significant assay results were encountered.

Significant results on adjacent properties include, west in Hoyle Township: 0.48 opt/1' in a diamond drill hole, a surface grab sample of 0.32 opt south of hole 76-1 and Pamour diamond drill hole MN7 1.8g/0.91m located to the east.

#### East Claim Block

Thick overburden and low lying topography characterized the area of the Eastern claim block. Geological interpretations are limited to drilling and geophysical data. The 9 claim block overlies predominantly Porcupine group sediments with a small portion of the northern three claims lying along the southern contact of an east west striking volcanic band. The western extension of the volcanics west of the Fredrick House River is open to interpretation.

Drilling indicated that the sediments are dominantly greywacke and mudstone with an approximate east west strike. Along the contact with the northern volcanics pyrite and arsenopyrite have been noted. The volcanics appear to be equivalent to the typical flow sequences in Matheson Twp. Forming east west lens often bound by graphite and sulphide zones. The volcanic lenses have been interpreted as either thrust faulted slivers or antiforms but the lack of information prevents any clear interpretation here.

Historically the volcanics located along the northern margin of this claim block would be the preferred target, but previous drilling has met with limited success. Drill holes have already tested the bulk of the sedimentary stratigraphy with no significant results.

With the limitation of a six drill hole program combined with higher priority targets on the south grid to the west and large untested areas of the Central grid no work was proposed on this block.

#### North East Claim Block

The north and northeastern portion of the block overlies typical Porcupine sediments. A thin 200 metre wide sliver of volcanics striking at 105 degrees cuts across the south, southwest portion of the property. Drilling indicates that the volcanics are typical massive to pillowed flows with variolitic and amygdaloidal sections. Immediately south of the volcanics is a 100 to 300 metre wide quartz feldspar porphyry body which parallels the volcanics. The volcanics and porphyry terminate to the east with the volcanics interpreted as forming a nose around the porphyry implying the presence of folding.

Several old drill holes along strike through the volcanics and porphyry have not been successful in prioritizing further targets.

Similar to the East block no work was proposed, as higher priority targets were present on the South and Central grids.

**ADD EXCEL SHEET: DRILL DATA**



Matheson Project  
Diamond Drill Data

Hole Location	Depth	Az (Corrected)	Dip (Corrected)	Overburden (Case)	Total Depth
MA-97-1	0	187	45	76	363
South Grid	101	187	47		
L30+00E	152	183.5	46		
11+00S	200	181	42		
S 97-7-17	251	181	42		
F 97-7-23	302	185	40.5		
Imperial Grid	350	188	40		
NW case to 61m (not in Bedrock) BW case to 76m, only 3m of NW case pulled.					
MA-97-2	0	186	46	63	201
South Grid	78	186	46		
L24+00E	102	186	45		
15+50S	150	186	43		
S 97-7-24	201	180	42		
F 97--7-28	NW 63m and BW 63m casing sanded, both left in hole.				
Imperial Grid					
MA-97-3	0	180	45	25	356
Central Grid	28	182	44		
L9+00E	50	181	42.5		
45+10N	100	178	40		
S 97-7-29	150	178	36		
F 97-8-5	200	175	34		
Metric Grid	250	174	29		
	299	172	26.5		
NW case pulled, 25m BW case left in hole.					
MA-97-4	0	185	45	55	251
Central Grid	71	187	45.5		
L21+00E	101	185	42		
46+25N	150	183	39.5		
S 97-8-6	205	181	35		
F97-8-8	251	182	33		
Metric Grid	BW case pulled, 55m NW case left in hole.				
MA-97-5	0	180	45	52	251
Central Grid	101	183	45.5		
L15+00E	152	182	45		
47+25N	200	181	42		
Metric Grid	250	179	40		
MA-97-6	0	180	45	29	269
Central Grid	44	185	45		
L6+00E	59	186	45		
50+75N	101	188	40		
Metric Grid	152	192	38		
	189	188	37		
	251	192	34		

## **DIAMOND DRILL LOGS**

**COLLAR INFORMATION**

PROJECT ID	HOLE ID	NORTHING	EASTING	ELEVATION	LENGTH	DATE	TEST	CORE SIZE	LOGGED BY	U/S	TARGET	COMMENTS
	MA-97-1	1100.00	3000.00		363.00	JULY 17-23 1997	Sperry Sun	BQ	K.DaPrato		SURMATHES TWP	SOUTH GRID

CLAIM# P-308602  
 DRILLED BY - Bradley Brothers Ltd  
 Core stored at Hayle Pond Mine

**INFORMATION**

DEPTH	AZIMUTH	DIP	REMARKS
100.00	187.00	-47.00	
150.00	183.50	-46.00	
200.00	181.00	-42.00	
250.00	181.00	-42.00	
300.00	185.00	-40.50	
350.00	188.00	-40.00	

**LITHOLOGY INFORMATION**

FROM	TO	ROCK TYPE	TEXTURE	ALTERATION	MINERALIZATION	VEINING	CA	REMARKS	RQD	H
0.00	76.00	Overburden	overburden							
76.00	80.00	Graphite argillite	GRAPHITE, gouge, lost 3.5m within this interval						0	
80.00	134.40	Sedimentary Rocks	Interbedded graphitic argillite/greywacke/sandstone, black/grey/beige respectively, minor breccia est unit, pock-marked/pumaceous texture, poker-chip pieces, blocky/broken up	hematite, argillite + greywackes are carbonaceous	up to 5% fine-dissem/cubic, coarse cubic py		70		5	2.5
134.40	160.85	Mafic Volcanic	massive, med-green, locally brecciated with graphitic-filled fractures, trace brn tourm specks	pervasive chlorite, patchy weak carbonaceous sections, usually assoc. with graphitic fractures	trace fine-dissem py	1-2% cb/qcb str/blebs, erratic and subparallel to fol	70		85	4.0
160.85	160.90	Mafic Volcanic	rubble							
160.90	163.20	Mafic Volcanic	massive, med-green, locally brecciated with graphitic-filled fractures, trace brn tourm specks	pervasive chlorite, patchy weak carbonaceous sections, usually assoc. with graphitic fractures	trace fine-dissem py	1-2% cb/qcb str/blebs, erratic and subparallel to fol	70		85	4.0
163.20	165.70	Mafic Volcanic	pillowed, locally variolitic(weak)/brecciated, selvages are distinct, light-med green, locally bleached	pervasive chlorite	trace fine-dissem py	1% cb str <4cm erratic/wispy/subparallel to fol	65		90	4.0
165.70	165.80	Mafic Volcanic	rubble							
165.80	179.00	Mafic Volcanic	pillowed, locally variolitic(weak)/brecciated, selvages are distinct, light-med green, locally bleached	pervasive chlorite	trace fine-dissem py	1% cb str <4cm erratic/wispy/subparallel to fol	65		90	4.0
179.00	184.00	Mafic Volcanic	massive, med-grained, light-buff-green, buff colour stems from beige f-spars	chloritic		1% cb str <0.5cm, erratic/wispy/subparallel to fol	70		95	3.5



## LITHOLOGY INFORMATION

FROM	TO	ROCK TYPE	TEXTURE	ALTERATION	MINERALIZATION	VEINING	CA	REMARKS	RQD	H
184.00	184.20	Mafic Volcanic	pillowed, locally variolitic(weak)/brecciated, selvages are distinct, light-med green, locally bleached	pervasive chlorite	trace fine-dissem py	1% cb str <1cm erratic/wispy/subparallel to fol	65		90	4.0
184.20	184.30	Mafic Volcanic	rubble							
184.30	210.30	Mafic Volcanic	pillowed, locally variolitic(weak)/brecciated, selvages are distinct, light-med green, locally bleached	pervasive chlorite, weakly carbonaceous btw 197-209m	trace fine-dissem py	1% cb str <1cm erratic/wispy/subparallel to fol	65		90	4.0
210.30	237.40	Mafic Volcanic	pillowed, selvages are very distinct and predom bleached/strong-variolitic, light green, patchy buff sections	chloritic, minor pervasive sericite	trace fine-dissem py	1% cb str erratic/wispy, trace white translucent qtz in selvages	65		90	4.0
237.40	244.70	Mafic Volcanic	GREY ZONE, weak, dark grey-green	chloritic/weak-mod carbonaceous	trace fine-dissem py/elongated blebs of po up to ~2cm long	2-5% cb str <0.5cm subparallel to fol	65		80	3.5
244.70	267.50	Mafic Volcanic	pillowed, selvages are weak, weakly variolitic locally, 2-5% qtz/ankerite/hematite stained amygdules btw 277-279.8m, light green, tr specks/blades of bn tourm locally	pervasive chlorite, weakly carbonaceous btw 267.5-268.6m	trace fine-dissem py	1% cb str/blebs <1cm erratic/subparallel to fol	70		75	4.0
267.50	268.00	Mafic Volcanic	rubble, all pieces <5cm							
268.00	277.50	Mafic Volcanic	pillowed, selvages are weak, weakly variolitic locally, 2-5% qtz/ankerite/hematite(?) stained amygdules btw 277-279.8m, light green, tr specks/blades of bn tourm locally	pervasive chlorite, weakly carbonaceous btw 267.5-268.6m	trace fine-dissem py	1% cb str/blebs <1cm erratic/subparallel to fol	70		75	4.0
277.50	277.55	Mafic Volcanic	1cm wide gouge @ 45 deg to CA							
277.55	279.80	Mafic Volcanic	pillowed, selvages are weak, weakly variolitic locally, 2-5% qtz/ankerite/hematite(?) stained amygdules btw 277-279.8m, light green, tr specks/blades of bn tourm locally	pervasive chlorite, weakly carbonaceous btw 267.5-268.6m	trace fine-dissem py	1% cb str/blebs <1cm erratic/subparallel to fol	70		75	4.0
279.80	279.85	Mafic Volcanic	1cm wide gouge @ 45 deg to CA							
279.85	280.80	Mafic Volcanic	pillowed, selvages are weak, weakly variolitic locally, 2-5% qtz/ankerite/hematite(?) stained amygdules btw 277-279.8m, light green, tr specks/blades of bn tourm locally	pervasive chlorite, weakly carbonaceous btw 267.5-268.6m	trace fine-dissem py	1% cb str/blebs <1cm erratic/subparallel to fol	70		75	4.0
280.80	280.85	Mafic Volcanic	2cm wide gouge @ 45 deg to CA							

## LITHOLOGY INFORMATION

FROM	TO	ROCK-TYPE	TEXTURE	ALTERATION	MINERALIZATION	VEINING	CA	REMARKS	RQD	H
316.20	318.00	Quartz Feldspar Porp	med-grained, med-grey, white-beige angular f-spars, blk tourm ~1mm throughout, 2m btw 317.5-317.6m	carbonaceous	trace fine-dissem py				100	5.0
318.00	319.10	Mafic Volcanic	same as previous 2m unit						90	4.0
319.10	321.20	Quartz Feldspar Porp	same as previous 9d unit						100	5.0
321.20	352.40	Mafic Volcanic	pillowed, weak-strong selvages, buff-grey btw 321.2-333.5, greenish-buff btw 333.5-337m, remainder is olive brown green, locally brecciated	sericitic/chloritic, weakly carbonaceous btw 321.2-333.5m, trace fuschite, patchy silicification	trace fine-dissem py	1-3% cb str <0.5cm +/- ankerite, blk tourm, brecciated @ top of interval, erratic, trace white/grey translucent qtz str, +/- bm tourm	60		90	4.0
352.40	362.40	Ultramafic Volcanic	massive, med-brown-green, patchy green-fuschite	sericitic, patchy fuschite	trace fine-dissem Py	1-2% grey qtz-ankerite str <4cm, erratic, some contain brecciated cb frags, tr white translucent qtz str <4cm +/- py @ ctcts	60		95	4.0
362.40	362.70	Quartz Vein	white translucent qtz, 2-3% wallrock inclusions with coarse cb/ank associated, tr-1% fuschite, tr bm tourm, top ctct @ 30 deg to CA, bof ctct is irregular						100	5.0
362.70	363.00	Ultramafic Volcanic	massive, med-brown-green, patchy green-fuschite	sericitic, patchy fuschite	trace fine-dissem Py	1-2% grey qtz-ankerite str <4cm, erratic, some contain brecciated cb frags, tr white translucent qtz str <4cm +/- py @ ctcts	60		95	4.0

## ASSAY INFORMATION

FROM	TO	SAMPLE NO.	AU G/T	%Q	%S	%CB
146.00	147.50	134298	0.12			
147.50	148.00	134299	0.16	5.0		
148.00	149.00	134300	0.22			
149.00	150.00	134301	0.07	5.0		
150.00	151.50	134302	0.02			
161.50	163.00	134303	0.03			
163.00	164.00	134304	0.10	3.0		
164.00	165.50	134305	0.24			
168.50	170.00	134306	0.03			
170.00	171.50	134307	0.22	1.0		
171.50	173.00	134308	0.13			
183.00	184.00	134309	0.10			
184.00	185.00	134310	0.36	1.0		
185.00	186.00	134311	0.02			
186.00	187.50	134312	0.05			
187.50	189.00	134313	0.04	2.0		

ASSAY INFORMATION

FROM	TO	SAMPLE NO.	AU G/T	% O	% S	% CB
189.00	190.50	134314	0.03			
213.30	214.30	134315	0.13			
214.30	214.80	134316	0.16	40.0		
214.80	215.80	134317	0.09			
218.80	219.80	134318	0.06			
219.80	220.30	134319	0.11	10.0		
220.30	221.30	134320	0.07			
227.00	228.00	134321	3.39			
228.00	229.00	134322	0.34	2.0		
229.00	230.00	134323	2.95			
237.00	238.00	134324	0.66			
238.00	239.00	134325	0.07			
239.00	240.00	134326	0.01			
240.00	241.00	134327	0.01			
241.00	242.00	134328	0.44			
242.00	243.00	134329	0.04	1.0		
243.00	244.00	134330	0.04			
258.00	259.00	134331	0.12			
259.00	260.00	134332	0.06	2.0		
260.00	261.00	134333	0.13			
266.00	267.50	134334	0.12			
267.50	269.00	134335	0.05			
269.00	270.50	134336	0.07			
315.50	317.00	134337	0.11	30.0	1.0	
317.00	318.50	134338	0.12	20.0		
318.50	320.00	134339	TR	15.0		
320.00	321.50	134340	0.12	10.0		
321.50	323.00	134341	TR			
323.00	324.50	134342	0.40			
324.50	326.00	134343	0.01	2.0		
326.00	327.50	134344	0.13			
330.00	331.50	134345	0.69			
331.50	332.50	134346	0.03	1.0		
332.50	333.50	134347	0.01	3.0		
333.50	334.50	134348	0.06			
348.50	350.00	134349	TR			
350.00	351.50	134350	0.55	1.0		
351.50	353.00	134351	0.09			
353.00	354.50	134352	0.04			
354.50	356.00	134353	0.07	1.0		
356.00	357.50	134354	0.03			
360.00	361.00	134355	0.02			
361.00	362.00	134356	0.04	1.0		
362.00		134357	0.12	30.0		

Sample From TO Assay  
 134415 226-228 0.05  
 134415 227-228 0.06  
 134416 230-231 0.01  
 134417 231-232 0.02

## COLLAR INFORMATION

PROJECT ID	HOLE ID	NORTHING	EASTING	ELEVATION	LENGTH	DATE	TEST	CORE SIZE	LOGGED BY	U/S	TARGET	COMMENTS
	MA-97-2	-1550.00	2400.00		201.00	JULY 24-28 1997	Sperry Sun	BQ	K.DaPrato		SURMATHES TWP	SOUTH GRID

## INFORMATION

DEPTH	AZIMUTH	DIP	REMARKS
75.00	186.00	-46.00	
100.00	186.00	-45.00	
150.00	186.00	-43.00	
200.00	180.00	-42.00	

Claim # P-3028598  
 Drilled by: Bradley Brothers Ltd  
 Core stored at Hayfield mine

## LITHOLOGY INFORMATION

FROM	TO	ROCK-TYPE	TEXTURE	ALTERATION	MINERALIZATION	VEINING	CA	REMARKS	RQD	H
0.00	63.00	Overburden								
63.00	71.00	Mafic Volcanic	overburden pillowed, selvages are distinct, chilled, often carbonaceous, locally brecciated/bleached, +/- cb str <4cm, med-green-grey, tr bm/bik tourm	pervasive chlorite, patchy weak carbonaceous sections throughout, mod carbon. btw 72.7-73.6m, 74.5-75.1m with increased cb str associated ~2-3% over these intervals	trace fine-dissem py	1-2% cb/qcb str <4cm, erratic/subparallel to fol, trace qtz str, b10cm, remaining are <2cm subparallel to fol	55		90	4.0
71.00	71.05	Mafic Volcanic	rubble							
71.05	80.85	Mafic Volcanic	pillowed, selvages are distinct, chilled, often carbonaceous, locally brecciated/bleached, +/- cb str <4cm, med-green-grey, tr bm/bik tourm	pervasive chlorite, patchy weak carbonaceous sections throughout, mod carbon. btw 72.7-73.6m, 74.5-75.1m with increased cb str associated ~2-3% over these intervals	trace fine-dissem py	1-2% cb/qcb str <4cm, erratic/subparallel to fol, trace qtz str, b10cm, remaining are <2cm subparallel to fol	55		90	4.0
80.85	80.90	Mafic Volcanic	rubble							
80.90	110.50	Mafic Volcanic	pillowed, selvages are distinct, chilled, often carbonaceous, locally brecciated/bleached, +/- cb str <4cm, med-green-grey, tr bm/bik tourm	pervasive chlorite, patchy weak carbonaceous sections throughout, mod carbon. btw 72.7-73.6m, 74.5-75.1m with increased cb str associated ~2-3% over these intervals	trace fine-dissem py	1-2% cb/qcb str <4cm, erratic/subparallel to fol, trace qtz str, b10cm, remaining are <2cm subparallel to fol	55		90	4.0
110.50	125.00	Mafic Volcanic	same as previous 2p unit, except weaker carbonac. alt'n, pillowed, bleached varioles up to ~4cm often elongated subparallel to fol	pervasive chlorite, weaker carbonaceous alt'n than previous 2p unit	trace fine-dissem py	1-2% cb/qcb str <4cm, erratic/subparallel to fol, trace qtz str, <2cm subparallel to fol	55		90	4.0
125.00	125.00	Mafic Volcanic	pillowed, selvages are distinct, chilled, often carbonaceous, locally brecciated/bleached, +/- cb str <4cm, med-green-grey, tr bm/bik tourm	pervasive chlorite, patchy weak carbonaceous sections throughout, mod carbon. btw 72.7-73.6m, 74.5-75.1m with increased cb str associated ~2-3% over these intervals	trace fine-dissem py	1-2% cb/qcb str <4cm, erratic/subparallel to fol, trace qtz str, b10cm, remaining are <2cm subparallel to fol	55		90	4.0
125.00	127.75	Mafic Volcanic	pillowed, selvages are weak, light green, local carbonaceous brecciation	pervasive chlorite	trace fine-dissem py	1-2% cb/qcb str <4cm, erratic/subparallel to fol, predom brecciated	65		90	4.5

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## LITHOLOGY INFORMATION

FROM	TO	ROCK TYPE	TEXTURE	ALTERATION	MINERALIZATION	VEINING	CA	REMARKS	RQD	H
127.90	150.10	Mafic Volcanic	pillowed, selvages are weak, light green, local carbonaceous brecciation rubble	pervasive chlorite	trace fine-dissem py	1-2% cb/qcb str <4cm, erratic/subparallel to fol, predom brecciated	65		90	4.5
150.10	150.15	Mafic Volcanic								
150.15	151.70	Mafic Volcanic	pillowed, selvages are weak, light green, local carbonaceous brecciation rubble	pervasive chlorite	trace fine-dissem py	1-2% cb/qcb str <4cm, erratic/subparallel to fol, predom brecciated	65		90	4.5
151.70	156.00	Mafic Volcanic	massive flow(?), locally bleached, +/- cb str <4cm, locally brecciated, med-green, med-coarse grained, 1-3% white angular speckled leucoxene up to 2mm rubble/gouge	pervasive chlorite, patchy weak carbonaceous sections throughout	trace fine-dissem py+/-po	1-2% cb/qcb str <4cm, erratic/subparallel to fol, trace qtz str, <2cm subparallel to fol, 0-3% chloritic/graphitic fractures, erratic	55		90	4.5
156.00	156.10	Mafic Volcanic								
156.10	194.10	Mafic Volcanic	massive flow(?), locally bleached, +/- cb str <4cm, locally brecciated, med-green, med-coarse grained, 1-3% white angular speckled leucoxene up to 2mm rubble/gouge	pervasive chlorite, patchy weak carbonaceous sections throughout	trace fine-dissem py+/-po	1-2% cb/qcb str <4cm, erratic/subparallel to fol, trace qtz str, <2cm subparallel to fol, 2-3% chloritic/graphitic fractures erratic	55		90	4.5
194.10	201.00	Mafic Volcanic	pillowed, light-med green, selvages are distinct, locally bleached/variolitic/brecciated	pervasive chlorite	trace fine-dissem py	1-2% cb/qcb str erratic/subparallel to fol <0.5cm	65		95	4.0

## ASSAY INFORMATION

FROM	TO	SAMPLE NO.	AU G/T	% O	% S	% CB
64.70	65.70	134251	0.04			
65.70	66.70	134252	0.05	2.0		
66.70	67.20	134253	0.12	20.0		
67.20	68.20	134254	0.16			
71.70	72.70	134255	0.09			
72.70	73.70	134256	0.07			
73.70	74.70	134257	0.11			
74.70	75.70	134258	0.20			
75.70	76.70	134259	0.05			
81.90	82.90	134260	0.08			
82.90	83.90	134261	TR			
83.90	84.90	134262	0.09			
87.00	88.50	134263	0.35			
88.50	90.00	134264	0.08			
90.00	91.50	134265	TR	1.0		
91.50	93.00	134266	0.16			
93.00	94.50	134267	0.30			
94.50	96.00	134268	0.05			
96.00	97.50	134269	0.07			
97.50	99.00	134270	0.13			
99.00	100.50	134271	0.14			



ASSAY INFORMATION

FROM	TO	SAMPLE NO.	AU/GT	% Q	% S	% CB
100.50	102.00	134272	0.09			
102.00	103.50	134273	0.63			
103.50	105.00	134274	0.27			
105.00	106.50	134275	0.34			
106.50	108.00	134276	0.20			
108.00	109.50	134277	0.09			
109.50	111.00	134278	0.07			
111.00	112.50	134279	TR			
115.50	117.00	134280	0.03			
117.00	118.50	134281	0.11	1.0		
118.50	120.00	134282	0.46			
126.00	127.50	134283	0.22			
127.50	129.00	134284	2.03	1.0		
129.00	130.50	134285	0.64	1.0		
138.00	139.50	134286	6.05			
139.50	140.00	134287	0.28	10.0		
140.00	141.50	134288	0.07	1.0		
147.00	148.50	134289	0.11			
148.50	150.00	134290	0.12	1.0		
150.00	151.50	134291	0.03	1.0		
151.50	153.00	134292	TR	1.0		
153.00	154.50	134293	0.13			
154.50	156.00	134294	1.90			
156.00	157.50	134295	TR	3.0		
157.50	159.00	134296	0.55	1.0		
159.00	160.50	134297	1.43			

ZONES INFORMATION

FROM	TO	AU/GT	WIDTH	ZONE	REMARKS1	REMARKS2

Hoyle Pond Mine   
 Bell Creek Mine   
 MATHESON TWP.

**KINROSS**  
 GOLD CORPORATION

D.D. HOLE NO. MA 97-3

COLLAR LOCATION L9400E / 45+10N  
 LENGTH 256  
 CORE SIZE BQ MACH. NO. 14  
 LOGGED BY John Kuvala  
 SAMPLED BY \_\_\_\_\_  
 Drilled BY Bradley Brothers Ltd.  
 PURPOSE Stratigraphy + RC #18

CO-ORD. N 45+10N  
 E L9400E  
 COLLAR ELEV. Surface = 0  
 BEGAN 97-7-29  
 FINISHED 97-8-5

Sample  
 134386 to 134413

DIP	COLLAR	BEARING
44	29	192
42.5	50	181
40	100	178
36	150	179
34	200	175
29	250	174
26.5	299	172

CORE STORED AT Hoyle Pond Mine  
 Claim # P-308566

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	SAMPLE LENGTH	ASSAYS		AVERAGES AND REMARKS
FROM	TO						Au g/l		
0	25	Case NW case pulled, 25m BW case left in hole.							
25	10490	Massive to Pillowed Mafic Volcanic Flow (2u, m, p) - entire section characterized by broken blocky core vuggy sections and minor shears No core lengths > 30cm - dominantly fine homogeneous gray green fine to mg pillowed. pillow salvages are thin and often not distinct massive sections become mg and generally less than 10m and probably represent the middle section of pillowed flows light overprinting yellowish "rusty" colour from "late" solution movement. Qtz carbonate occurs as vuggy masses							

*Signature*

# KINROSS GOLD CORPORATION

Hole No. MA 97-3

Page No. 2

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	SAMPLE LENGTH	ASSAYS			AVERAGES AND REMARKS
FROM	TO						Au g/l			
		and stringers								
		No substantial quartz veins, sulphide mineralization or alteration noted.								
		Almost NO pyrite seen								
		Foliation (shear)								
		32m 44°      74m 51°								
		40m 51°      81    66°								
		54m 36°      94    52°								
		64m 32°      101 56°								
104.50	114.25	Pillowed Amygdaloidal Flow (2u, p, e)								
		Pillowed amygdaloidal f.g. light gray green matrix with S - 8% white < 2mm amygdals								
114.25	120.02	Flow Breccia/Pillow Breccia (2u, fbx) f.g. pillow breccia fragments 5 to 15+ cm in a f.g. foliated matrix								

# K.N.O.J.S

## GOLD CORPORATION

Hole No. MA 97-3

Page No. 3

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	SAMPLE LENGTH	ASSAYS		AVERAGES AND REMARKS
FROM	TO						Au g/l		
120.02	131.99	Massive Flow (Zn, m) mg massive green							
		129.8 to 131.55 Fault, sheared vuggy conc Pol @ 63°, leached minor vuggy qtz carb							
131.99	140.54	Gray Flow Breccia + Quartz Veins (Zn, Pb) 5 to 20 cm light gray to dark gray pillow fragments in a light green to dark gray flow sheared matrix (No amygdals Not Variolitic) 135.5 - 138.3 sheared vuggy conc Pol @ 75°							
		138.18 to 139.26 vuggy buff white quartz vein 138.66 to 138.96 Quartz carb vein, trace pyrite Pol (contacts) @ 70°	134396	138	139	1.0	0.01		
140.54	155.81	Pillowed Mt. Flows light green (Zn, Pb, Au) Massive pillowed flow, large pillows thick salveys light buff green (Very light colour)							

# K.N.O.S.S.

## GOLD CORPORATION

Hole No. MA 97-3

Page No. 4

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	SAMPLE LENGTH	ASSAYS			AVERAGES AND REMARKS
FROM	TO						Au g/t			
		minor Puchsite alteration, Tr pyrite in selvages 29, qtz carb stringers + veins								
		156.93 - 157.01 Fault gouge Duke 71° clay	134387	156.5	157.5	1.0	0.02			
		157.01 - 157.22 Quartz Carbonate Vein gray white, oxidized orange patches no sulphides								
185.81	252.91	Pillowed mafic flow typng medium gray green (Zn, p, Au) typical pillowed mafic flow fol @ 55-65° well developed pillows and selvages, weakly, variolitic medium green colour No bleached tan sericitic sections patchy Puchsite alteration (generally weak)								
		189.36 - 189.47 pink qtz carb vein trace < 1% py	134388	189	189	1.0	0.03			
		189.55 - 189.75 two quartz masses (70% section qtz) white barren cross cutting								

# K.N.O.O.S. GOLD CORPORATION

Hole No. MA97-3

Page No. 5

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	SAMPLE LENGTH	ASSAYS			AVERAGES AND REMARKS
FROM	TO						Au g/l			
	209.08-209.33	qtz carb vein 358 1 to 3cm angular volcanic fragments, fragments weakly bleached 2% disseminated pyrite, Dile 63°?	134389	209.5	210.5	0.70	0.19			
			134390	213.8	214.3	0.50	0.01			
	214.05-214.19	quartz vein ground bull white oxidized contacts								
	216.57-216.74	quartz carb vein white, 2% up to 3mm pyrite blebs uc@ 75° Lc@ 35° @217.9 3cm qtz vein	134391	216.5	217.3	0.80	0.01			
			134392	217.3	218	0.70	0.02			
			134393	218	219	1.0	0.01			
			134394	219	220	1.0	0.01			
	217.84-218.0	qtz carb mass barren Broken core	134395	220	221.2	1.20	TR.			
	218.51-218.81	qtz carb vein very oxidized barren uc@ 65° Lc@ ?								
	220.22-221.16	Granular very qtz carb vein, dark/ gray white to oxidized yellow. 220.95 to 221.16 4% up to 7mm pyrite masses								
	251.26-252.91	Shear, soft talc chlorite altered Dile @ 43° S-7% wispy qtz carb stringers trace py	134396	251	252		0.01			
			134397	252	253		0.06			

# KINROSS GOLD CORPORATION

Hole No. MA97-3

Page No. 6

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	SAMPLE LENGTH	ASSAYS		AVERAGES AND REMARKS
FROM	TO						Au g/l		
		252.37-252.55 white quartz carb vein barren							
252.91	294.69	Pillowed Micr. Flows Yellow to white Pg (2u, p, fu) - characterized by well developed pillows Pg vary light yellowish green to white with thick S to 30cm black chloritic selvages - selvages are weakly pyritic, minor diss py minor fuch site dominantly @ upper and lower contacts of sequence Pol @ 65-70° - lower in section brown sericite and fuch site increases, possibly variolites	134399	254	2555		0.04		Qtz carb vein
		276.45-276.61 Quartz carb vein minor fuch site 2% py in vein + diss in wall rock	134399	276.2	276.8		TR.		
294.69	303.22	Massive Flow (2u, m) Pg massive gray to sericite altered brown, no clear distinct selvages Pol @ 75-95°							

# K.N.O.S

## GOLD CORPORATION

Hole No. MA97-3

Page No. 7

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	SAMPLE LENGTH	ASSAYS		AVERAGES AND REMARKS
FROM	TO						Au g/l		
303.22	312.85	Pillowed flow, med brown (2 up, fu) dark selvages, medium brown sericite alteration, patchy, fuchsite alteration. Tr. diss py as blobs							
		306.09-306.56 Qtz carb vein 2-3% py diss and fracture @ 306.80 10cm Qtz carb mass	134400	306	307		0.01		
		311.85-312.85 increasing graphitic alteration							
312.85	319.5	Graphitic altered zone (GZ, gt) gradual increase in alteration and fracturing, light gray to black 3-5% Qtz carb stringers all < 2cm diameter trace py Same zones seen in 97-4, 79-1, 76-2 (weak gray zone)	134401	311	312		0.01		
			134402	312	313		0.01		
			134403	313	314		0.02		
			134404	314	315		0.02		
			134405	315	316		0.02		
			134406	316	317		0.01		
			134407	317	318		0.02		
319.5	339.60	Mafic Flow (2 up, e) light green brown p.g. "tan" 5-7% black graphitic rich fractures throughout - possible selvages and ungodinals - no fuchsite pole 92°	134408	318	319		0.02		
			134409	319	320		0.03		



# K.N.O.S

## GOLD CORPORATION

Hole No. MA97-3

Page No. 8

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	SAMPLE LENGTH	ASSAYS		AVERAGES AND REMARKS
FROM	TO						Au g/l		
		324.57 325.28 irregular granular qtz carb + graphite? infilling between breccia fragments 50% qtz carb Tr sul							
		LC sharp @ 50°							
339.60	346.27	Graphite (5g) black soft graphitic bands 15% sediment bands dominantly < 2cm 15% pyrite bands dominantly < 1cm fol @ 75-90°							
		342.4-343.7 sals? fgy light gray sheared 2% py							
		345.49 356.09 40% qtz carb veins, gray white parallel fol @ 81° pyrite lenses in graphite.	134411	345.4	346.4	1.0	Tr		
			134412	346.4	347.4	1.0	0.03		
346.27	347.35	Sediment? (2 u, m) Fg gray homogeneous (not banded) (looks like a flow?)	134413	347.4	348.6	1.20	0.02		

# K.N.O.O.S.

## GOLD CORPORATION

Hole No. MA973

Page No. 9/9

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	SAMPLE LENGTH	ASSAYS			AVERAGES AND REMARKS
FROM	TO						Au g/l			
347.38	348.47	Feldspar Porphyry (9 B) 8-12% <3mm white feldspars in a fg dark gray matrix 5-8% irregular Qtz stringers and masses Minor pyrite UC @ 84° LC @ 73°								
348.47	356	Sediments (5 P) Pg well banded graphite contact decreasing down hole Fo @ 72°  356m EOH								

Hoyle Pond Mine   
 Bell Creek Mine

**KINROSS**  
 GOLD CORPORATION

37 . 0

D.D. HOLE NO. MA 97-4  
 DIP 45.5 COLLAR 71 BEARING 187  
42 101 185  
39.5 150 193  
35 205 191  
33 251 192

COLLAR LOCATION L21+00E / 26+25N  
 LENGTH 251m  
 CORE SIZE R9 MACH. NO. 14  
 LOGGED BY John Kovala  
 SAMPLED BY \_\_\_\_\_  
 DRILLER BY Bradley Brown & Co. Ltd.  
 PURPOSE Test Stratigraph.

CO. ORD. N 46+25 N  
 GRID E L21+00E  
 COLLAR ELEV. Surface  
 BEGAN 97-8-6  
 FINISHED 97-8-8

Samples  
 134358 to 134385  
 Inclusive

CORE STORED AT  
 HOYLE POND MINE  
 Claim #  
 P. 308555

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	SAMPLE LENGTH	ASSAYS		AVERAGES AND REMARKS
FROM	TO						Au g/l		
0	55m	Case							
55.0	149.90	Mafic-Volcanic Flows (2u, p, vr) (Pillowed Variolitic Mg-thol) - distinct pillow rims and variolites throughout dominantly, light green, minor dark green to black selvages to pillows, fol @ 65-70° - minor Puchsite alteration and bleaching - Variable 1-2% irregular qtz carb stringers - no qtz veins > 10cm - no sulphides > trace							
		55-62 broken core blocks < 15cm sections							
		62-75.35 - Puchsite altered pillowed variolitic flow - local bleaching, silicification, - minor pyrite concentrations within selvages up to 3% py / 10cm							

*[Handwritten signature]*

Moyle Pond Mine  
Bell Creek Mine

**KINROSS**  
GOLD CORPORATION

1355 435 1351

D.D. HOLE NO. MA 97-4 Page 2  
DIP \_\_\_\_\_ COLLAR \_\_\_\_\_ BEARING \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CO-ORD. N \_\_\_\_\_  
E \_\_\_\_\_  
COLLAR ELEV. \_\_\_\_\_  
BEGAN \_\_\_\_\_  
FINISHED \_\_\_\_\_

COLLAR LOCATION \_\_\_\_\_  
LENGTH \_\_\_\_\_  
CORE SIZE \_\_\_\_\_ MACH. NO. \_\_\_\_\_  
LOGGED BY \_\_\_\_\_  
SAMPLED BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_  
PURPOSE \_\_\_\_\_

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	SAMPLE LENGTH	ASSAYS		AVERAGES AND REMARKS
FROM	TO						Au g/t	MISSING	
		ip 70.65-70.81 granular qtz carb vein @ 80°	134358	70	71	1.0		Qtz + Py in Selvages	
		to ca 4% py	134359	71	72	1.6	1.10	" "	
		75.35-78.40 Fault							
		- Uuggy, sheared, brown rusty (limonite) altered, fol @ 63°							
		78.40 85.57 Pillowed Variolite Flow							
		85.57 92.90 Fault							
		- Uuggy broken carb bleached fol @ 65°							
		90.95-91.09 quartz vein bullwhite	134360	90.5	91.5	1.0	0.03	Bull Qtz	
		no sulphides							
		92.90 141.0 Pillowed Variolite Flow							
		- med-dark green "Preshov" appearance							
		- no Puchsite, no sulphides, weak bleaching	134361	94	95	1.0	0.02	Qtz Carb Tr Py in Selvages	
		- fol @ 70°							
		- irregular granular gray white qtz stringers and veins < 7cm wide dominantly in dark green selvage areas, up to 3%	134362	103.5	104	0.5	0.28	Qtz carb Tr Py in selvage	

# KINROSS GOLD CORPORATION

Hole No. MA97-4

Page No. 3

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	SAMPLE LENGTH	ASSAYS		AVERAGES AND REMARKS
FROM	TO						Au g/l		
		135.5 - 141 increasingly vuggy down section							
		141 - 149.90 Fault, Pillowed Variolite flows							
		- vuggy bleached broken core throughout							
		- pole 60-90°, chloritic slip surfaces							
		- pillowed flows, same as previous							
149.90	205.40	Massive to Pillowed flow (Zn, m, p, vr, fu)							
		- Variolites from massive to pillowed sections							
		- minor weak variolite texture (not distinct)							
		- increased patchy fuchsite alteration as < 50cm sections							
		- buff brown silicious sections throughout (not present in unit from 55 to 149.90)							
		- increased irregular qtz carbonate stringers							
		Fractures and veins 2-3% dominantly as joint filling, trace pyrite with qtz carb veins							
		- no faulting, minor broken core							
		- pole 65-76°							

# KINROSS GOLD CORPORATION

Hole No. MAA7-4

Page No. 4

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	SAMPLE LENGTH	ASSAYS		AVERAGES AND REMARKS
FROM	TO						Au g/l		
	149.90-155.10	pillowed flow gray green trace py in selvages Dolc 70° @ 154.615cm Polled Qtz mass	134363	154.1	155.1	1.0	0.07		Qtz mass + py in selvage
	155.10-158.29	Fault, pillowed flow bleached broken core chloritic and qtz carb on slip surfaces, Dolc 77° trace rusty oxidized pyrite cubes Uuggy throughout.							
	158.29-162.47	Pillowed flow / 7% Qtz Veins green pillowed flow, minor acidity alteration, Quartz carbonate as < 12cm veins and irregular masses.							
	ie 158.78-158.90	20% irregular < 4cm qtz masses	134364	158	159	1.0	0.03		
	159.14-159.32	60% Qtz carb < 1% py masses < 3mm Dolc 68°							
	159.59-159.71	55% qtz veins Dolc 85° Trace Py	134365	159	160	1.0	TR		
	160.56-160.92	60% Qtz-carb, white, bullish Dolc 80°	134366	160	161	1.0	0.01		
			134367	161	161.8	0.8	TR		
	161.91-162.09	70% Qtz carb, rusty 20cm	134368	161.8	162.0	1.0	TR		

# KINROSS

## GOLD CORPORATION

Hole No. MAC7-4

Page No. 5

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	SAMPLE LENGTH	ASSAYS		AVERAGES AND REMARKS
FROM	TO						Au g/l		
		oxidized "halo" to vein 5% pyrite, as masses up to 1.5cm along margins of vein.							
	162.47-200.16	Pillowed to massive flow - buff brown silicious to green - Ag-rich fol @ 60 to 80° - disseminated pyrite throughout < 0.5% as up to 0.5cm cubes							
		significant veins @	134369	181.5	192.5	1.0	0.06		
	183.13 to 183.27	white qtz vein NO sulphides fol @ 72° in possible fault?	134370	182.5	183.5	1.0	0.03		
		Scm carb + breccia	134371	183.5	184.5	1.0	0.09		
	183.87-184.21	20% qtz carb, minor fuchsite 2% pyrite, granular gray white. fol @ 41°							
	196.38-197.01	20% irregular 0.3 to 2cm veins @ 10 to 30° to GA Tr py, minor fuchsite.	134372	196.1	197.1	1.0	0.02		

# K.N.O.O.S

## GOLD CORPORATION

Hole No. MA97-4

Page No. 6

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	SAMPLE LENGTH	ASSAYS		AVERAGES AND REMARKS
FROM	TO						Au g/l		
	200.16	201.06	Quartz vein	134373	200	201.1	1.10	0.04	
			90% qtz, 7% wall rock (Fuchsite altered)						
			2% tourmaline, < 0.5% pyrite						
			Coarse granular white						
			UC @ 63° LC @ 65°						
	201.06	203.61	Pillowed flow (SAP) same as previous	134374	201.1	202	0.90	1.91	
				134375	202	203.5	1.5	0.03	
	203.61	204.15	Quartz vein similar to previous	134376	203.5	204.6	1.1	0.53	
			95% qtz carb	134377	204.6	205.5	0.9	0.02	
			4% fuchsite altered green						
			1% pyrites up to 3mm masses						
			UC 68° LC 80° irregular						
	204.15	204.46	Pillowed flow						
	204.46	204.58	Quartz Carb. vein						
			minor fuchsite trace sulphide						
			contacts @ 340						
	204.58	205.40	Pillowed flow						
205.40	208.31	Massive flow	(2u m, p, vr)						
			mg homogeneous texture						
			gray green, soft, moderately carb altered.						



# KINROSS GOLD CORPORATION

Hole No. MA97-4

Page No. 7

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	SAMPLE LENGTH	ASSAYS			AVERAGES AND REMARKS
FROM	TO						Au g/l			
		205.40 - 214.80 Massive Flow								
		214.80 - 219.31 Pillowed Flow Variolitic								
		Possible flow top for 205.40 - 214.80 minor thickness altered.								
		218.18 to 218.31 Qtz carb veins @ lower contact. Dole 88° Talc chlorite slip surfaces								
21831	22205	Graphitic Altered zone (gz)	134378	216	217		0.03			
		bluish black fine grained, fine banded	134379	217	218		0.15			
		< 2mm scale, Dole 85°	134380	218	219		0.01			
		3-4% irregular Qtz stringers < 1.5cm dia	134381	219	220		0.01			
		throughout. No veins	134382	220	221		0.01			
		2-3% disseminated pyrite as cubes up to 4mm diameter	134383	221	222		0.14			
			134244	222	223		0.54			
		graphite throughout on slip surfaces Same zone seen in MA97-3 79-1 and 76-2								
22205	23774	Pillowed Amygdales Flow (Zu, E)								
		light brown pillowed with 0.1 to 0.5cm carbonate amygdals in variable concentrations throughout.								

# KINROSS GOLD CORPORATION

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Hole No. MA97-4

Page No. 8

METERS		CORE DESCRIPTION	SAMPLE NO.	FROM	TO	SAMPLE LENGTH	ASSAYS		AVERAGES AND REMARKS
FROM	TO						Au g/l		
		1-3% disseminated pyrite as cubes up to 7mm in diameter, $\text{Dol} @ 77^\circ$ 2-4% irregular qtz carb stringers - No Anhydrite alteration							
237.74	241.44	Graphite (5g) soft graphitic core containing up to 2cm pyrite nodules. $\text{Doliation} @ 74^\circ$ 237.74 - 238.15 intercalated graphite and sediment bands 238.15 - 241.19 soft graphite $\text{Dol} @ 75^\circ$ 241.19 - 241.44 soft porous rock intercalated with minor graphite, $\text{Dol} @ 74^\circ$							
241.44	251	Sediments (5f) F.g. Fine banded $\text{Dol} @ 90$ to $95^\circ$ 1-2% - pyrite as seams parallel to $\text{Doliation}$ 246.5 to 246.71 quartz carbonate vein bullish contacts @ $90^\circ$ Hole stopped in Sediments	134385	246	247		0.03		20 cm qtz carb vein

**COLLAR INFORMATION**

PROJECT ID	HOLE-ID	NORTHING	EASTING	ELEVATION	LENGTH	DATE	TEST	CORESIZE	LOGGED BY	U/S	TARGET	COMMENTS
	MA-97-5	4725.00	1500.00	0.00	251.00	OCT 15-17 1997	Sperry Sun	BQ	KIM DAPRATO	SUR	STRAT	INTERNATIONAL LARDER OPT

Claim# P308563  
 DRILLED BY: BRADLEY BROTHERS LTD  
 CORE STORED AT HOYLE POND MINE

**INFORMATION**

DEPTH	AZIMUTH	DIP	REMARKS
0.00	180.00	-45.00	
101.00	183.00	-45.50	
152.00	182.00	-45.00	
200.00	181.00	-42.00	
250.00	179.00	-40.00	

**LITHOLOGY INFORMATION**

FROM	TO	ROCK-TYPE	TEXTURE	ALTERATION	MINERALIZATION	VEINING	CA	REMARKS	RQD	H
0.00	52.00	Overburden								
52.00	57.00	Mafic Volcanic	intermittent gouge/rubble throughout entire interval, massive, med-dark green	chlorite-carbonate, patchy hematite	trace fine-dissem py	2-3% cb str <2cm, no predom orientation			20	3.5
57.00	62.00	Ultramafic Volcanic	massive, dark grey-green, abundant biotite, hard to distinguish any other features, RQD ~10%	talch-chlorite-carbonate		2-5% cb str <3cm, erratic/subparallel to fol			10	2.5
62.00	69.00	Mafic Volcanic	intermittent gouge/rubble throughout entire interval, massive, med-dark green	chlorite-carbonate, patchy hematite	trace fine-dissem py	2-3% cb str <2cm, no predom orientation			20	3.5
69.00	75.50	Mafic Volcanic	massive, med-dark green	chloritic, speckled carbonate	trace fine-dissem py	1-2% cb str <3cm, no predom orientation	70		65	4.0
75.50	80.00	Mafic Volcanic	intermittent gouge/rubble							
80.00	83.50	Mafic Volcanic	massive, med-dark green	chloritic, speckled carbonate	trace fine-dissem py	1-2% cb str <3cm, no predom orientation	70		65	4.0
83.50	83.60	Mafic Volcanic	gouge/rubble							
83.60	84.30	Mafic Volcanic	massive, med-dark green	chloritic, speckled carbonate	trace fine-dissem py	1-2% cb str <3cm, no predom orientation	70		65	4.0
84.30	84.50	Mafic Volcanic	gouge/rubble							
84.50	110.00	Mafic Volcanic	massive, med-dark green	chloritic, speckled carbonate	trace fine-dissem py	1-2% cb str <3cm, no predom orientation	70		65	4.0
110.00	173.10	Mafic Volcanic	pillowed, selvages are very distinct, buff, locally bleached/brecciated/variolitic	sericitic	trace fine-dissem, coarse-cubic py, trace fine-dissem po	2-3% cb/qcb str <10cm, subparallel to fol/in selvages	55		90	4.0
173.10	173.30	Quartz-Carbonate Vein	white opaque/translucent qtz-carbonate, 1% fine str of brn tourm @ top of vn, top ctct is irregular, bot ctct @ 80 deg to CA		none				0	5.0
173.30	178.80	Ultramafic Volcanic	massive, buff-brown colour, softer than 2p above	sericitic, mottled fine-carb	none	1% qcb str <2cm subparallel to fol, see subunit for larger QCBV	60		80	3.0

## LITHOLOGY INFORMATION

FROM	TO	ROCK-TYPE	TEXTURE	ALTERATION	MINERALIZATION	VEINING	CA	REMARKS	RQD	H
178.80	196.70	Mafic Volcanic	massive flow (?), lt/bl'd buff near top of int, lt/bl'd green for remainder, coarse-amorphous-mottling (primary/alt'n?) btw 178.8-185.8m, 200-201.1m, may be center of flow, remainder is finer-grained	sericitic near top of interval, coarse chl-carb	trace fine-dissem/cubic, med-cubic py	1-2% cb-qcb strs < 5cm predom subparallel to fol, 2-3% dark chloritic fractures, no predom orientation	60		90	4.0
196.70	196.90	Quartz Vein	white translucent qtz, top ctct @ 30, bot ctct @ 20 deg to CA, 2-4% chloritic wallrock inclusions		trace fine-dissem po				100	5.0
196.90	201.10	Mafic Volcanic	massive flow (?), lt/bl'd buff near top of int, lt/bl'd green for remainder, coarse-amorphous-mottling (primary/alt'n?) btw 178.8-185.8m, 200-201.1m, may be center of flow, remainder is finer-grained	sericitic near top of interval, coarse chl-carb	trace fine-dissem/cubic, med-cubic py	1-2% cb-qcb strs < 5cm predom subparallel to fol, 2-3% dark chloritic fractures, no predom orientation	60		90	4.0
201.10	208.60	Mafic Volcanic	pillowed, selvages are very distinct/chilled/bleached varioles, light green, locally bleached	chloritic	trace fine-dissem py	1-2% qcb strs < 10cm, no predom orientation	60		95	4.0
208.60	217.80	Ultramafic Volcanic	massive, light-med grey-green, very soft, both ctcts are gradational	talc-chlorite-carbonate	none	2-5% cb strs < 10cm, predom subparallel to fol < 1cm/very soft	60		75	3.0
217.80	251.00	Mafic Volcanic	massive flow (?), lt/bl'd green, coarse-amorphous-mottling (primary/alt'n?) btw 217.8-228.5m, becomes incr'ly finer-grained/buff thereafter, coarse section may be center of flow, locally bleached	coarse chl-carb, increasing sericite after ~236m, minor fuschite assoc. with cb strs in last 3m	trace fine-dissem py for last 3m	1-2% cb strs < 5cm subparallel to fol	60		90	4.0

## ASSAY INFORMATION

FROM	TO	SAMPLE NO.	AU G/T	% Q	% S	% CB	REMARKS
117.00	118.00	135892	0.01				
118.00	119.00	135893	NIL	1.0			
119.00	120.00	135894	NIL				
125.00	126.00	135895	NIL				
126.00	127.00	135896	NIL	15.0			
127.00	128.00	135897	NIL				
128.00	129.00	135898	0.01				
129.00	130.00	135899	0.01				
130.00	131.00	135900	NIL	10.0			
131.00	132.00	135901	0.01				
147.00	148.00	135902	NIL				

ASSAY INFORMATION

FROM	TO	SAMPLE NO.	AU G/T	% Q	% S	% CB	REMARKS
148.00	149.00	135903	NIL	2.0			
149.00	150.00	135904	NIL	5.0			
150.00	151.00	135905	0.01	2.0			
160.00	161.00	135906	0.01				
161.00	162.00	135907	0.07	3.0			
162.00	163.00	135908	0.01	1.0			
163.00	164.00	135909	0.01	10.0			
164.00	165.00	135910	NIL				
168.00	169.00	135911	0.02				
169.00	170.00	135912	0.01	4.0			
170.00	171.00	135913	0.01	1.0			
171.00	172.00	135914	0.13				-14 / .12
172.00	173.00	135915	NIL	3.0			
173.00	174.00	135916	0.01	5.0			
174.00	175.00	135917	NIL	2.0			
187.00	188.00	135918	NIL				
188.00	189.00	135919	NIL	10.0			
189.00	190.00	135920	NIL				
194.00	195.00	135921	0.01				
195.00	196.00	135922	NIL	20.0			tr po
196.00	197.00	135923	NIL				
202.50	203.50	135924	0.01				
203.50	204.50	135925	0.04	3.0			
204.50	205.50	135926	0.13				
214.00	215.00	135927	NIL				
215.00	216.00	135928	NIL	5.0			
216.00	217.00	135929	NIL				
237.00	238.00	135930	NIL				
238.00	239.00	135931	0.01	2.0			
239.00	240.00	135932	NIL				
248.00	249.00	135933	NIL				
249.00	250.00	135934	NIL				
250.00	251.00	135935	0.01	2.0			

## COLLAR INFORMATION

PROJECT ID	HOLE ID	NORTHING	EASTING	ELEVATION	LENGTH	DATE	TEST	CORESIZ	LOGGED BY	U/S	TARGET	COMMENTS
	MA-97-6	6075.00	600.00	○	269.00	OCT 17-24 1997	Sperry Sun	BQ	KIM DAPRATO	SUR	STRAT	INTERNATIONAL LARDER OPT.

## INFORMATION

DEPTH	AZIMUTH	DIP	REMARKS
0.00	180.00	-45.00	
44.00	185.00	-45.00	
59.00	186.00	-45.00	
101.00	188.00	-40.00	
152.00	192.00	-38.00	
198.00	188.00	-37.00	
251.00	192.00	-34.00	

CLAIM# P308567  
 DRILLED BY BRADLEY BROTHERS LTD  
 CORE STORED AT HOYLE POND MINE

## LITHOLOGY INFORMATION

FROM	TO	ROCK-TYPE	TEXTURE	ALTERATION	MINERALIZATION	VEINING	CA	REMARKS	RQD	H
0.00	29.00	Overburden								
29.00	32.70	Mafic Volcanic	rubble/minor gouge, -1.5m lost btw 29-32m, lithology is as below							
32.70	34.50	Mafic Volcanic	pillowed, selvages are very distinct, varioles up to 1cm, assoc. with selvages, locally brecciated/bleached	predominantly sericitic, minor chlorite, patchy silicification/qtz-flooding, carbonaceous btw 35.1-35.2m, sharp ctcts @ 30 deg to CA	trace fine-dissem py	1-3% cb/qcb strs <1cm, erratic/subparallel to fol	45		55	4.5
34.50	34.60	Mafic Volcanic	gouge/rubble							
34.60	39.70	Mafic Volcanic	pillowed, selvages are very distinct, varioles up to 1cm, assoc. with selvages, locally brecciated/bleached	predominantly sericitic, minor chlorite, patchy silicification/qtz-flooding, carbonaceous btw 35.1-35.2m, sharp ctcts @ 30 deg to CA	trace fine-dissem py	1-3% cb/qcb strs <1cm, erratic/subparallel to fol	45		55	4.5
39.70	40.00	Mafic Volcanic	rubble							
40.00	42.50	Mafic Volcanic	pillowed, selvages are very distinct, varioles up to 1cm, assoc. with selvages, locally brecciated/bleached	predominantly sericitic, minor chlorite, patchy silicification/qtz-flooding, carbonaceous btw 35.1-35.2m, sharp ctcts @ 30 deg to CA	trace fine-dissem py	1-3% cb/qcb strs <1cm, erratic/subparallel to fol	45		55	4.5
42.50	42.90	Mafic Volcanic	GREY ZONE, med-dark grey, distinct ctcts @ 45/60 deg to CA respect., microfaulting define by cross-hatched qcb strs	carbonaceous	trace-1% fine-dissem py	3% cb/qcb strs <0.5cm, erratic, cross-hatched offsetting due to microfaulting	45		80	4.0
42.90	46.50	Mafic Volcanic	pillowed, selvages are very distinct, varioles up to 1cm, assoc. with selvages, locally brecciated/bleached, has a mottled appear.	predominantly sericitic, minor chlorite, patchy silicification/qtz-flooding, more intense than previous 2p unit, carbonaceous btw 44.35-44.4m, sharp ctcts @ 60/80 deg to CA respect.	trace fine-dissem py	2% qcb strs <1cm, erratic	50		95	5.0

*[Handwritten signature]*

## LITHOLOGY INFORMATION

FROM	TO	ROCK-TYPE	TEXTURE	ALTERATION	MINERALIZATION	VEINING	CA	REMARKS	RQD	H
46.50	46.90	Mafic Volcanic	GREY ZONE, med-dark grey, distinct cts @ 55/45 deg to CA respect.	carbonaceous	trace fine-dissem py	1% qcb str <0.5cm, predom hairline, erratic	50		70	4.0
46.90	50.20	Mafic Volcanic	pillowed, selvages are very distinct, varioles up to 1cm, assoc. with selvages, locally brecciated/bleached, has a mottled appear.	predominantly sericitic, minor chlorite, patchy silicification/qtz-flooding, weakly carbonaceous btw 48-48.1m	trace fine-dissem py	1% qcb str <0.5cm, erratic	50		95	4.5
50.20	55.90	Mafic Intrusive	med-grained (diortite?). beige-green overall, f-spars are it blege, it green/dark grey matrix, phenocrysts are distinct/angular	chloritic matrix	trace fine-dissem py	1-2% grey qtz-ank/qtz str <1cm, erratic	50		60	4.5
55.90	56.00	Mafic Intrusive	rubble							
56.00	60.10	Mafic Intrusive	med-grained (diortite?). beige-green overall, f-spars are it blege, it green/dark grey matrix, phenocrysts are distinct/angular, becomes finer-grained near bot cct	chloritic matrix	trace fine-dissem py	1-2% grey qtz-ank/qtz str <1cm, erratic	50		60	4.5
60.10	62.50	Mafic Volcanic	breccia, weak-mod, predom med-grey, lesser light-green frags, mottled in places	part pervasive carbonaceous, remainder of frags are chloritic, matrix is carbonaceous	trace fine-dissem py	1-2% cb/qcb str, <1cm, erratic			95	4.0
62.50	65.10	Mafic Volcanic	pillowed, selvages are very distinct/chilled/variolitic/brecciated/leached	chloritic	none	tr cb str <1cm, erratic	45		95	4.0
65.10	66.80	Mafic Volcanic	GREY ZONE, light-med grey, pillowed, selvages are distinct, varioles are brownish-grey, locally brecciated	carbonaceous, very weak sericite	trace fine-dissem py	3-5% qcb str <2cm, no predom orientation	50		75	4.0
66.80	100.80	Mafic Volcanic	pillowed, selvages are very distinct/chilled/variolitic (up to 1.5cm)/brecciated/gottled, buff-it green, bleached, top 3-4m slightly coarser grained,	sericitic/chloritic, patchy weak silicification, dark-grey carbonaceous section btw 92.4-92.6m	trace fine-dissem py	1-2% qcb/cb str <10cm, subparallel to fol	50		90	4.0
100.80	101.50	Mafic Volcanic	GREY ZONE, moderate, med-dark grey, selvages are distinct/bleached/variolitic	carbonaceous	trace-1%, fine-dissem py, also partially replaced cb str, erratic str	2% cb str <1cm erratic	45		95	4.0
101.50	138.70	Mafic Volcanic	pillowed, selvages are very	predominantly sericitic, lesser chlorite, patchy silicification, patchy carbonaceous sections assoc. with fractures/selvages, minor fuschite btw 124.3-124.4m and 158.6-158.7m	trace fine-dissem py	1% cb/qcb str <1cm, no predom orientation	50		90	4.0

## LITHOLOGY INFORMATION

FROM	TO	ROCK-TYPE	TEXTURE	ALTERATION	MINERALIZATION	VEINING	CA	REMARKS	RQD	H
138.70	146.40	Mafic Volcanic	massive, light grey-green to buff-brown, locally brecciated	chlorite-sericite, weak carbonaceous sections, patchy silicification	trace fine-dissem, coarse cubic py	2-5% cb/qcb str <5cm, erratic/subparallel to fol/wispy erratic	50		65	4.5
146.40	149.10	Mafic Intrusive	fine-med-grained (diortite?). beige-green overall, f-spars are it biege, lt green/dark grey matrix, phenocrysts are distinct/angular	chloritic matrix	trace fine-dissem py	1-2% qcb/peach-calc str, no predom orientation, <1cm	50		95	4.5
149.10	160.00	Mafic Volcanic	massive flow, lt-green near top of interval, grades into buff, med-coarse-amorphous mottling (same as MA-97-5), patchy biege leucoxene	chloritic near top of interval, predominantly sericitic thereafter	trace fine-dissem/cubic, coarse-cubic py	1-3% qcb/peach-calc str, erratic/subparallel to fol	55		60	4.0
160.00	166.40	Mafic Volcanic	this interval is broken up/gouge/rubble, predominantly 2m, se, ch, however it is graphitic/gouge btw 165-165.7 and 166.2-166.4m	sericite/chlorite/carbonaceous	none	2-3% white/pink calc str			10	
166.40	168.50	Mafic Volcanic	massive, light-med green, brecciated near bot of interval	chloritic, patchy silicification, minor fuschite	trace fine-dissem py	2-5% erratic white/peach cb/qcb str <5cm	55		60	4.0
168.50	168.60	Mafic Volcanic	gouge							
168.60	170.70	Mafic Volcanic	massive, light-med green, brecciated near bot of interval	chloritic, patchy silicification, minor fuschite	trace fine-dissem py	2-5% erratic white/peach cb/qcb str <5cm	55		60	4.0
170.70	170.90	Mafic Volcanic	rubble, black graphitic							
170.90	172.40	Mafic Volcanic	massive, light-med green, brecciated near bot of interval	chloritic, patchy silicification, minor fuschite	trace fine-dissem py	2-5% erratic white/peach cb/qcb str <5cm	55		60	4.0
172.40	172.60	Mafic Volcanic	GREY ZONE, light-med grey, may be pillowed, microfaulting defined by offset cb str, locally brecciated	carbonaceous	trace fine-dissem py	1-3% white/peach cb str, erratic, see subunit for larger qcbv	55		75	4.0
172.60	172.90	Quartz-Carbonate Vein	white-light grey qtz/white-peach calc @ 3:1, mottled/brecciated, ~5% carbonaceous wallrock inclusions, both cts @ 70 deg to CA	weakly carbonaceous	trace fine-dissem/cubic, med-cubic py				40	5.0
172.90	175.50	Mafic Volcanic	GREY ZONE, light-med grey, may be pillowed, microfaulting defined by offset cb str, locally brecciated	carbonaceous	trace fine-dissem py	1-3% white/peach cb str, erratic, see subunit for larger qcbv	55		75	4.0
175.50	196.50	Mafic Volcanic	pillowed, minor massive units, lt-buff/lt-green, bleached, selvages are distinct, minor bleached varioles <0.5cm, brecciated @ top of int.	sericite/chlorite, minor patchy fuschite	trace-2% fine-dissem py, 1-2% uniformly speckled py btw 179.5-173m, 3% f-dissem py btw 176-176.3m assoc. with 10cm qcbv	1-2% cb/qcb str <10cm, predominantly <1cm, erratic	55		80	4.0
196.50	204.00	Mafic Volcanic	GREY ZONE (weak), light to med-grey							



## LITHOLOGY INFORMATION

FROM	TO	ROCK-TYPE	TEXTURE	ALTERATION	MINERALIZATION	VEINING	CA	REMARKS	RQD	H
204.00	221.00	Mafic Volcanic	MED GREY Fg PILLOWED CHLORITIC ALONGPILLOW SELVAGES	CARB THROUGH OUT STRONG CHLORITIC ALT. ALONG SELVAGES MinoR Fu 212.8-213.3		MINOR Ca VEINS 1-10mm WIDE @ 50&70 deg T.C.A.			80	4.5
221.00	226.00	Mafic Volcanic	MED-Dk GREY PILLOWED FOL @ 50 deg T.C.A. WEAK GZ	MINOR PERVASIVE CARBONACEOUS ALT WITH CARB ANKERITE +CALCITE			50		95	3.5
226.00	269.00	Mafic Volcanic	PALE To MED GREY Fg PILLOWED MV MINDR FLUw Bx ALONG SoME SELVAGE MARGINS	CARB T/OUT MINOR CARBONACEOUS ALT FOUND BETWEEN CLASTS IN FLBx & ALONG FoL PLANE	TRACE Py	MinoR CaV 1-5mm WIDE 30 deg TCA	45		95	4.0

## ASSAY INFORMATION

FROM	TO	SAMPLE NO.	AU G/T	% Q	% S	% CB	REMARKS
34.00	35.00	135936	NIL				
35.00	36.00	135937	NIL				
36.00	37.00	135938	NIL				
37.00	38.00	135939	NIL				
38.00	39.00	135940	NIL				
39.00	40.00	135941	NIL				
40.00	41.00	135942	NIL	2.0			
41.00	42.00	135943	NIL	5.0			
42.00	43.00	135944	NIL	3.0			NIL/NIL
43.00	44.00	135945	NIL	5.0			
44.00	45.00	135946	NIL	2.0			
45.00	46.00	135947	NIL	5.0			
46.00	47.00	135948	NIL	3.0			
47.00	48.00	135949	NIL	1.0			
48.00	49.00	135950	NIL	1.0			
49.00	50.00	135951	NIL				
50.00	51.00	135952	NIL				
51.00	52.00	135953	NIL	2.0			
52.00	53.00	135954	NIL				
53.00	54.00	135955	NIL				
54.00	55.00	135956	NIL	2.0			
55.00	56.00	135957	NIL	1.0			
56.00	57.00	135958	NIL				
57.00	58.00	135959	NIL	1.0			
58.00	59.00	135960	NIL				
59.00	60.00	135961	NIL				
60.00	61.00	135962	NIL	1.0			
61.00	62.00	135963	NIL	2.0			
62.00	63.00	135964	NIL	1.0			
63.00	64.00	135965	NIL				
64.00	65.00	135966	.01				
65.00	66.00	135967	.01	2.0			.01/.01
66.00	67.00	135968	NIL	2.0			

ASSAY INFORMATION

FROM	TO	SAMPLE NO.	AU G/T	% Q	% S	% CB	REMARKS
67.00	68.00	135969	NIL				
71.00	72.00	135970	.02				
72.00	73.00	135971	.02	2.0			.02/.02
73.00	74.00	135972	NIL				
79.00	80.00	135973	NIL				
80.00	81.00	135974	NIL	4.0			
81.00	82.00	135975	NIL				
82.00	83.00	135976	NIL				
83.00	84.00	135977	NIL				
84.00	85.00	135978	NIL	2.0			
85.00	86.00	135979	NIL				
90.70	91.70	135980	0.01				
91.70	92.20	135981	NIL	20.0			
92.20	93.20	135982	NIL	3.0			
93.20	94.20	135983	NIL				
96.00	97.00	135984	0.01				
97.00	98.00	135985	NIL	1.0			
98.00	99.00	135986	0.02				
99.00	100.00	135987	0.01				
100.00	101.00	135988	NIL	4.0			
101.00	102.00	135989	0.01				
102.00	103.00	135990	NIL				
106.00	107.00	135991	NIL				
107.00	108.00	135992	NIL	2.0			
108.00	109.00	135993	NIL	1.0			
114.00	115.00	135994	NIL				
115.00	116.00	135995	NIL	2.0			dark grey qtz str 2cm, tr cpy
116.00	117.00	135996	NIL				
127.50	128.50	135997	NIL	2.0			
128.50	129.50	135998	NIL				
129.50	130.50	135999	NIL				
130.50	131.50	136000	NIL				
131.50	132.50	135301	NIL				NEW SAMPLE # SERIES
132.50	133.50	135302	NIL	1.0			
133.50	134.50	135303	NIL	1.0			
134.50	135.50	135304	NIL	2.0			
135.50	136.50	135305	NIL	3.0			
136.50	137.50	135306	NIL				
137.50	138.50	135307	NIL	5.0			
138.50	139.50	135308	NIL	3.0			
139.50	140.50	135309	NIL	2.0			
140.50	141.50	135310	NIL	10.0			
141.50	142.50	135311	NIL	5.0			
158.00	159.00	135312	NIL	1.0			
159.00	160.00	135313	NIL	1.0			
160.00	161.00	135314	NIL	3.0			
161.00	162.00	135315	NIL				
162.00	163.00	135316	NIL				
163.00	164.00	135317	NIL				

ASSAY INFORMATION

FROM	TO	SAMPLE NO.	AU GT	% Q	% S	% CB	REMARKS
164.00	165.00	135318	NIL				
165.00	166.00	135319	NIL				
166.00	167.00	135320	NIL				
167.00	168.00	135321	NIL				
168.00	169.00	135322	NIL				
169.00	170.00	135323	NIL	4.0			
170.00	171.00	135324	NIL				
171.00	172.00	135325	NIL				
172.00	173.00	135326	NIL	15.0			
173.00	174.00	135327	NIL	2.0			
174.00	175.00	135328	NIL				
175.00	176.00	135329	NIL				
176.00	177.00	135330	NIL	5.0	1.0		10cm qcbv, 3% f-dissem py assoc. btw176-176.3m
177.00	178.00	135331	NIL				
178.00	179.00	135332	NIL				
179.00	180.00	135333	NIL	3.0			
180.00	181.00	135334	NIL				
181.00	182.00	135335	NIL	1.0	1.0		
182.00	183.00	135336	NIL	1.0	2.0		
183.00	184.00	135337	NIL	4.0			
184.00	185.00	135338	NIL	3.0			
185.00	186.00	135339	NIL				
195.00	196.00	135340	0.01				
196.00	197.00	135341	0.01	3.0			
197.00	198.00	135342	NIL	10.0			
198.00	198.50	135343	NIL	6.0			
198.50	199.50	135344	0.01	8.0			
199.50	200.50	135345	NIL	4.0			
200.50	201.50	135346	0.01				
201.50	202.50	135347	NIL				
202.50	203.50	135348	0.01				
203.50	204.50	135349	NIL				
204.50	205.50	135350	NIL				
210.00	211.00	135351	NIL				
211.00	212.00	135352	NIL				
212.00	213.00	135353	NIL				
213.00	214.00	135354	NIL				
220.00	221.00	135355	0.01				
221.00	222.00	135356	0.01	1.0			
222.00	223.00	135357	0.01				
223.00	224.00	135358	NIL				
224.00	225.00	135359	0.01				
225.00	226.00	135360	0.01				
226.00	227.00	135361	NIL	2.0			
227.00	228.00	135362	NIL	1.0			
228.00	229.00	135363	0.01				
229.00	230.00	135364	NIL				
230.00	231.50	135365	NIL				
258.50	260.00	135366	0.01				

ASSAY INFORMATION

FROM	TO	SAMPLE NO.	AU G/T	% Q	% S	% CB	REMARKS
260.00	261.50	135367	Nil				
261.50	263.00	135368	Nil				
263.00	264.50	135369	Nil				
264.50	266.00	135370	Nil				
266.00	267.50	135371	Nil		0.1		trace Py
267.50	269.00	135372	Nil				



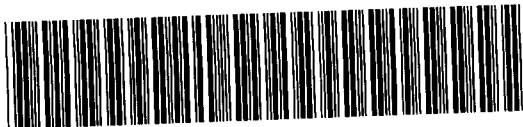
Ministry of Northern Development and Mines

# Declaration of Assessment Work Performed on Mining Land

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

Transaction Number (office use) W4860.00078
Assessment Files Research Imaging

Personal information collected... should be directed to



42A10SW0121 2.18129 MATHESON

5(3) of the Mining Act. Under section 8 of the Mining Act, this and with the mining land holder. Questions about this collection or, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Instructions: -

900

use form 0240.

2. 10129

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

Name <i>See attached:</i>	Client Number <i>130666</i>
Address <i>40 Kinross Gold Corporation</i>	Telephone Number <i>705 235 6405</i>
<i>BAG 1000</i>	Fax Number <i>705 235 6421</i>
Name <i>SCHUMACHER, ONT</i>	Client Number
Address <i>Pon160</i>	Telephone Number
Contact <i>CHRIS SAARI</i>	Fax Number

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

<input type="checkbox"/> Geotechnical: prospecting, surveys, assays and work under section 18 (regs)	<input checked="" type="checkbox"/> Physical: drilling stripping, trenching and associated assays	<input type="checkbox"/> Rehabilitation
Work Type <i>DIAMOND DRILLING</i>	Office Use	
	Commodity	
	Total \$ Value of Work Claimed <i>\$114,460</i>	
Dates Work Performed From <i>17 July 1997</i> To <i>24 Nov 1997</i>	NTS Reference	
Global Positioning System Data (if available)	Township/Area <i>MATHESON TWP</i>	Mining Division <i>Porcupine</i>
	M or G-Plan Number <i>G-3982</i>	Resident Geologist District <i>Timmins</i>

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.

**RECEIVED**  
 JAN 30 1998  
 GEOSCIENCE ASSESSMENT OFFICE

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

Name <i>John A Kovala - Consultant</i>	Telephone Number <i>705 235 6405</i>
Address <i>40 KINROSS GOLD CORPORATION</i>	Fax Number <i>705 235 6421</i>
<i>Po Bag 1000, SCHUMACHER, ONT Pon160</i>	Telephone Number
Name	Fax Number
Address	Telephone Number
Name	Fax Number

**RECEIVED**  
 FMJ  
 JAN 29 1998  
 12:05  
 PORCUPINE MINING DIVISION

4. Certification by Recorded Holder or Agent  
 I, CHRISTINA SAARI, 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>Christina Saari</i>	Date <i>Jan 29 / 98</i>
Agent's Address <i>same as above</i>	Telephone Number <i>same as above</i>
	Fax Number

*Deemed April 29/98*

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.

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 308555	1	15453			15453
2 308563	1	15629			15629
3 308566	1	21996		2800	19196
4 308567	1	18515			18515
5 308598	1	12812			12812
6 308602	1	22747		3200	19547
7 1193813	6	2436	2400		36
8 1193814	2	812	800		12
9 1201689	6	2436	2400		36
10 1201690	2	812	800		12
11 1201691	1	812	400		412
12 1193815	1		400		
13 1193816	2		800		
14 1193817	1		1600		
15 1181459	1		1600		
Column Totals continued					see attached =>

**RECEIVED**  
 7 8:30 AM '98  
 JAN 30 1998

I, GEOSCIENCE ASSESSMENT OFFICE, 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 on 2nd Page)

Signature of Recorded Holder or Agent Authorized in Writing \_\_\_\_\_ Date \_\_\_\_\_

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):

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)

**RECEIVED**  
 12:05  
 JAN 29 1998  
 Fm  
 PORCUPINE MINING DIVISION

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.

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 1189144	1		400-		
2 1189145	3		1200-		
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
<b>Column Totals</b>	<b>32</b>	<b>\$114460</b>	<b>\$12800</b>	<b>\$ 6000</b>	<b>\$101660</b>

I, \_\_\_\_\_, 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: Jan 29/98

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)

**RECEIVED**  
 8:30 AM  
 JAN 30 1998  
 GEOSCIENCE ASSESSMENT OFFICE

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)	

**RECEIVED**  
 FMB  
 JAN 29 1998  
 12:05  
 PORCUPINE MINING DIVISION



Ontario

Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use)

Personal information collected on this form is obtained under the authority of subsection 6 (1) of the Assessment Work Regulation 6/98. 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.

201820

Work Type	Units of work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
DIAMOND DRILLING	1691 metres	\$ 57/metre	\$ 96387
ASSAYS	314 assays	\$ 11/assay	\$ 3784
LABOUR/SUPERVISION	25 days	\$ 297/day	\$ 6981
RESEARCH/consultants/reports	18 days (combined 5 people)	\$ 406/day	\$ 7308
Associated Costs (e.g. supplies, mobilization and demobilization).			
Transportation Costs			
Food and Lodging Costs			
Total Value of Assessment Work			\$114460

**RECEIVED**  
8:30 AM  
JAN 30 1998  
GEOSCIENCE ASSESSMENT  
OFFICE

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, CHRISTINE MASARR 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 [Signature] I am authorized to make this certification.  
(recorded holder, agent, or state company position with signing authority)

Signature: [Signature] Date: Jan 29/98

JAN 28 1998  
PROVINCE OF ONTARIO



March 27, 1998

Christine M. Saari  
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) 670-5881

Dear Sir or Madam:

**Submission Number: 2.18129**

**Status**

**Subject: Transaction Number(s):** W9860.00078 Deemed 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.

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 Steve Beneteau by e-mail at [benetest@epo.gov.on.ca](mailto:benetest@epo.gov.on.ca) or by telephone at (705) 670-5855.

Yours sincerely,



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

# Work Report Assessment Results

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Submission Number: 2.18129

Date Correspondence Sent: March 27, 1998

Assessor: Steve Beneteau

---

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9860.00078	6000148	MATHESON	Deemed Approval	March 25, 1998

**Section:**

16 Drilling PDRILL

**Correspondence to:**

Resident Geologist  
South Porcupine, ON

Assessment Files Library  
Sudbury, ON

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

Christine M. Saari  
KINROSS GOLD CORPORATION  
TORONTO, Ontario

JEAN-CLAUDE BONHOMME  
TORONTO, ONTARIO

EDWARD HENRY LUDWIG  
TIMMINS, ON

AUREL E. CHAUMONT  
TIMMINS, ONTARIO

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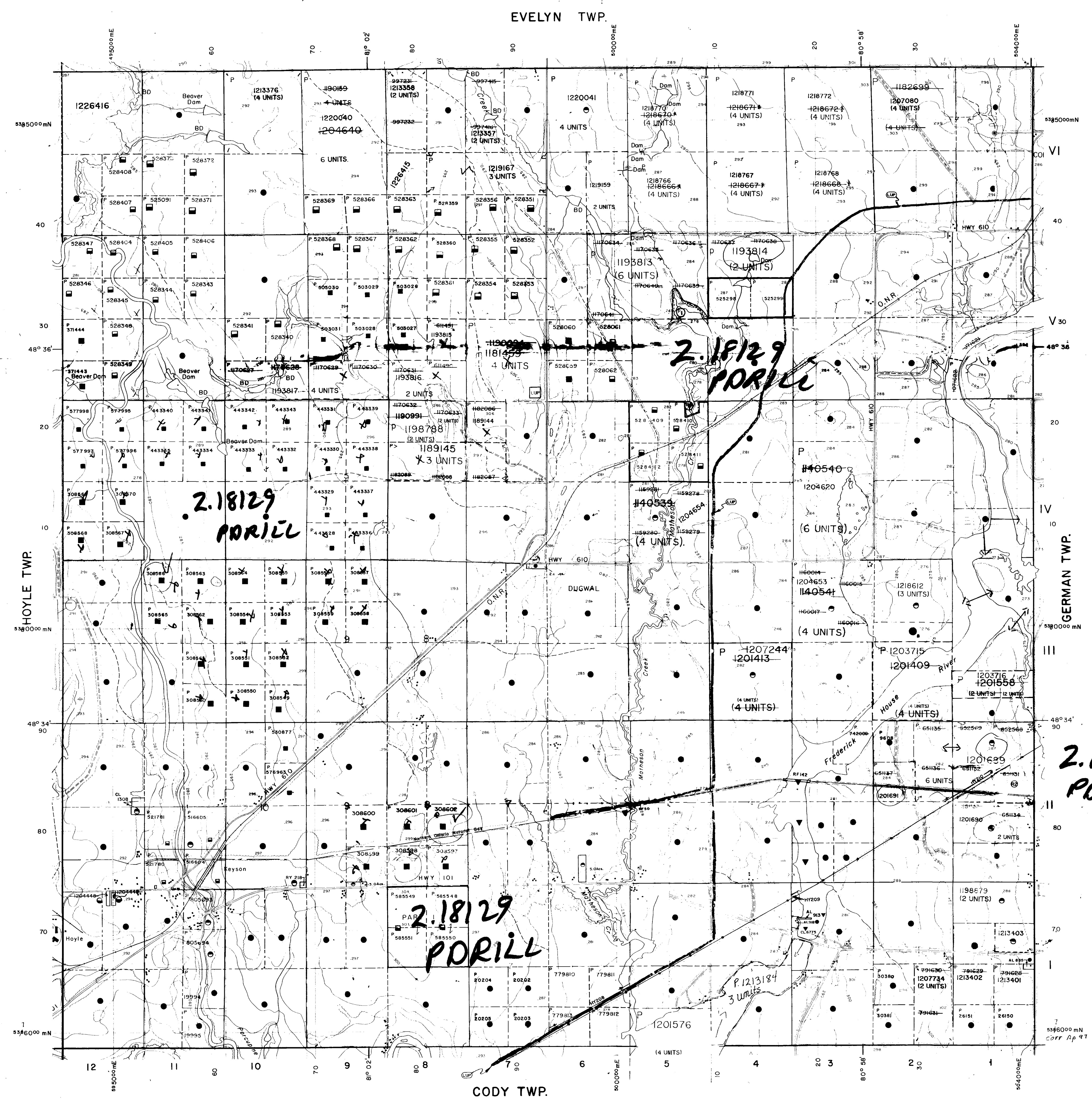
MAP SYMBOLOGY

<b>Aerial Cableway</b>	<b>Pipeline</b> (above ground)
<b>Boundary</b>	<b>Railroad</b>
International	Single Track
Interprovincial	Double Track
District, Township	Abandoned
Indian Reserve	Turbine
Approximate	<b>Road</b>
Let, Concession	Highway, County
Approximate	Township
<b>Park Boundary</b>	Access (road of doubtful
<b>Bridge</b>	maintainance or
Road, Railroad	significant driveway)
<b>Building</b>	Trail, Back Road
Chimney	(garage alley)
<b>Cliff, Pit, Pile</b>	<b>Rapids</b>
<b>Contours</b>	Double line river
Interpreted	with multiple rapids
Approximate	Double line river
Depression	with multiple rapids
<b>Control Points</b>	<b>Reservoir</b>
Horizontal	Approximate
Vertical	Seasonal
<b>Culvert</b>	Direction of flow
<b>Falls</b>	<b>Rock</b>
Double line river	Vertical
(like elevations)	Spot Elevation
<b>Fence, Hedge, Wall</b>	(like elevations)
<b>Feature Outline</b>	<b>Tower</b>
(Concentration Areas,	Transmission Line
etc.)	Pylon
<b>Flooded Land</b>	<b>Tunnel</b>
<b>Lock</b>	Utility Poles
<b>Marsh or Swamp</b>	Wharf, Dock, Pier
<b>Mast</b>	<b>Wooded Area</b>
<b>Mine Wood Frame</b>	
<b>Outcrop</b>	

**AREAS WITHDRAWN FROM DISPOSITION**

M.R.O. - MINING RIGHTS ONLY	
S.R.O. - SURFACE RIGHTS ONLY	
M.S. - MINING AND SURFACE RIGHTS	
Description	Order No. Date Disposition File

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.



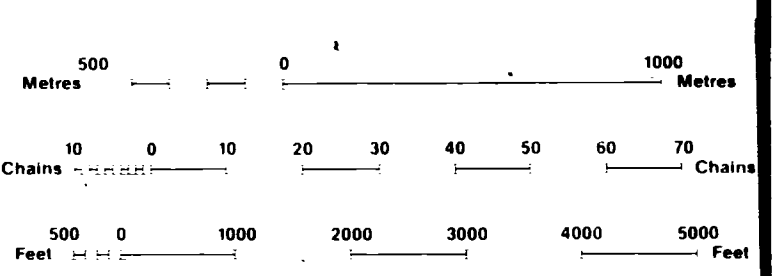
LEGEND

Highway and Route No.	
Other Roads	
Trails	
Surveyed Lines:	
Townships, Base Lines, Etc.	
Lots, Mining Claims, Parcels, Etc.	
Unsurveyed Lines:	
Lot Lines	
Parcel Boundary	
Mining Claims Etc.	
Railway and Right of Way	
Utility Lines	
Non-Perennial Stream	
Flooding or Flooding Rights	
Subdivision or Composite Plan	
Reservations	
Original Shoreline	
Marsh or Muskeg	
Mines	
Traverse Monument	

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	○
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	□
" MINING RIGHTS ONLY	□
LICENCE OF OCCUPATION	○
ORDER IN COUNCIL	OC
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 8, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.



SCALE 1:20 000  
GRID ZONE: 17

NOTES

- FLOODING RIGHTS ON THE FREDERICK HOUSE RIVER TO 303' CONTOUR RESERVED TO H.E.P.C.
- FLOODING RIGHTS RESERVED TO DUCKS UNLIMITED (FILE #A890 00057) OCTOBER 31, 1988
- THIS TWP IS SUBJECT TO FOREST ACTIVITIES BY 1994-95. FURTHER INFORMATION AVAILABLE ON FILE.
- PENDING LAND USE PERMIT - MAR. 18/92
- PENDING APPLICATION UNDER THE PUBLIC LANDS ACT NOTICE RECEIVED 92-NOV-17 (AGRICULTURAL)
- APPLICATION PENDING UNDER PUBLIC LANDS ACT NOTICE RECEIVED 93-MAR-30 (SNOWMOBILE TRAIL)

2.18129  
PORILL

DATE OF ISSUE  
JAN 29 1998  
PROVINCIAL RECORDING  
OFFICE - SUDBURY

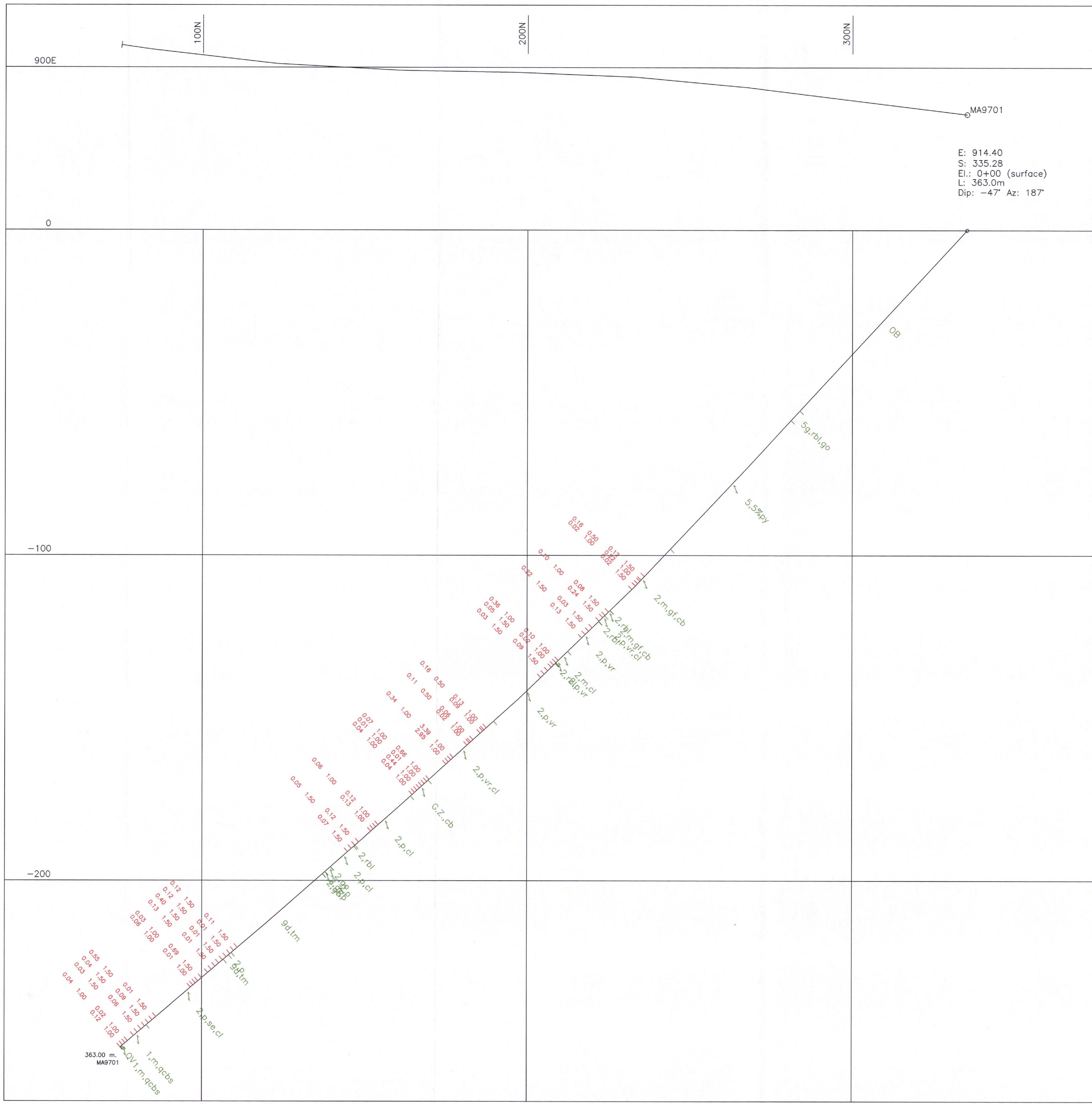


TOWNSHIP  
**MATHESON**  
M.N.R. ADMINISTRATIVE DISTRICT  
**TIMMINS**  
MINING DIVISION  
**PORCUPINE**  
LAND TITLES / REGISTRY DIVISION  
**COCHRANE**

Ministry of Natural Resources  
Land Management Branch  
Ontario

ORIGINAL COMPILATION JULY 1984  
ACTUALY REVISID  
Number  
**G-3982**

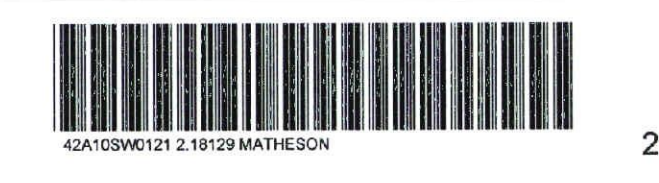




Legend

Rock Type

- 10 Diabase
- 9 Felsic Intrusive
  - 9d Quartz Feldspar Porphyry
  - 9q Quartz Porphyry
- 8 Intermediate Intrusive
- 7 Mafic Intrusive
- 6 Ultramafic Intrusive
- 5 Sedimentary Rock
  - 5a Argillite
  - 5g Graphitic Argillite
  - 5f Greywacke
  - 5cgl Conglomerate
  - 5cht Chert
- 4 Felsic Volcanic
- 3 Intermediate Volcanic
- 2 Mafic Volcanic
  - 2u Magnesium Tholeiite
  - 2v Iron Tholeiite
- 1 Ultramafic Volcanic
  - 1k Peridotitic Komatiite
  - 1bk Basaltic Komatiite



Texture	Mineralization	Alteration
ft foliation	Au gold	al albite
m massive	as arsenopyrite	ak/ank ankerite
p pillowed	cpy chalcopyrite	bl bleached
hy hyaloclastic	ga galena	c carbonaceous
fbx flow breccia	gf/g graphite	cb carbonate
e amygdaloidal	py pyrite	ca/cal calcite
bx breccia	po pyrrhotite	ch chlorite
vr variolitic	vg visible gold	dol dolomite
r/ps polysulfured	qv quartz veining	ep epidote
sfx spinifex	qav quartz ankerite veining	fu fuchsite
lm laminated	qcv quartz calcite veining	gz grey zone
bd bedded	qcbv quartz carbonate veining	he hematite
fz/ftt fault zone	mt magnetite	k potassic alteration
go gouge	sp sphalerite	se sericite
rbl rubble	tm tourmaline	sr serpentine
gc ground core	lx leucoxene	sl silicification
fg fine grained		fc falc - chlorite
mg medium grained		fs falc - serpentine
cg coarse grained		
rg regolith		

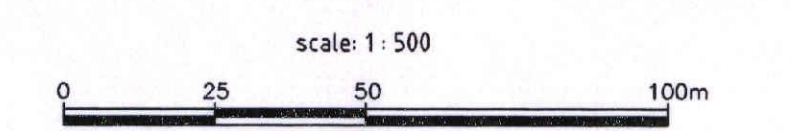
2.18129

**KINROSS**  
Gold Corporation  
TIMMINS OPERATION

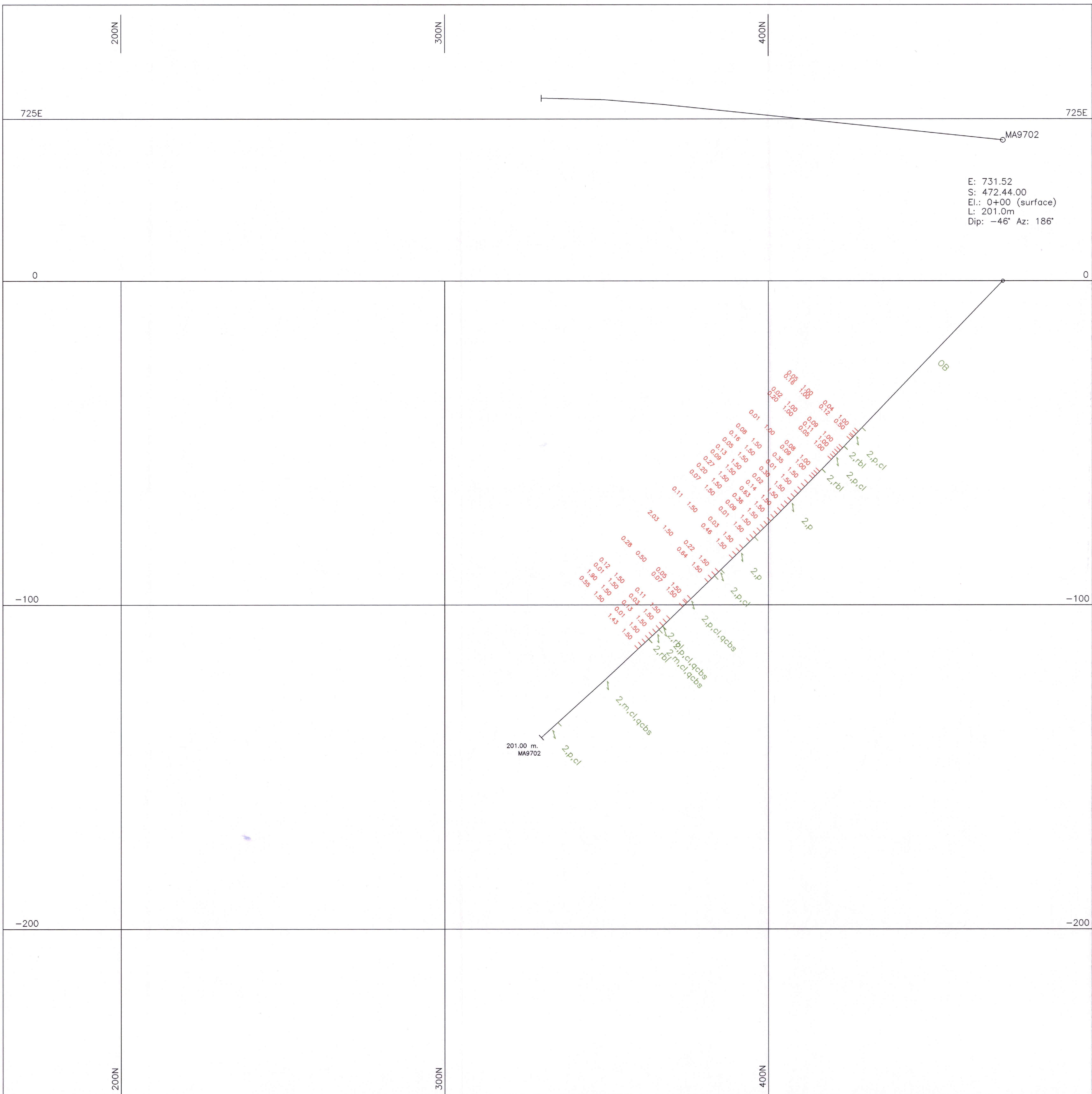
Matheson Township

Drill Hole Section  
MA97-01 - Claim # P 308602

File:	9701.dwg	Date:	Nov.14, 1997
Drawn by:	sy	Scale:	1 : 500
Geol.:	J.Kovala	Updated:	Nov.18, 1997 sy







E: 731.52  
 S: 472.44.00  
 El.: 0+00 (surface)  
 L: 201.0m  
 Dip: -46° Az: 186°

**Legend**

**Rock Type**

- 10 Diabase
- 9 Felsic Intrusive
- 9d Quartz Feldspar Porphyry
- 9q Quartz Porphyry
- 8 Intermediate Intrusive
- 7 Mafic Intrusive
- 6 Ultramafic Intrusive
- 5 Sedimentary Rock
- 5a Argillite
- 5g Graphitic Argillite
- 5f Greywacke
- 5cgl Conglomerate
- 5cht Chert
- 4 Felsic Volcanic
- 3 Intermediate Volcanic
- 2 Mafic Volcanic
- 2u Magnesium Tholeiite
- 2v Iron Tholeiite
- 1 Ultramafic Volcanic
- 1k Peridotitic Komatiite
- 1bk Basaltic Komatiite



Texture	Mineralization	Alteration
fl foliation	Au gold	al albite
m massive	as arsenopyrite	ak/ank ankerite
p pillowed	cpy chalcopyrite	bl bleached
hy hyaloclastic	ga galena	c carbonaceous
fbx flow breccia	gf/g graphite	cb carbonate
e amygdaloidal	py pyrite	ca/cal calcite
bx breccia	po pyrrhotite	ch chlorite
vr variolitic	vg visible gold	dol dolomite
r/ps polysutured	qv quartz veining	ep epidote
sfx spinifex	qav quartz ankerite veining	fu fuchsite
lm laminated	qcv quartz calcite veining	gz grey zone
bd bedded	qcbv quartz carbonate veining	he hematite
fz/ft fault zone	mt magnetite	k potassic alteration
go gouge	sp sphalerite	se sericite
rbl rubble	tm tourmaline	sr serpentine
gc ground core	lx leucoxene	sl silicification
fg fine grained		tc talc - chlorite
mg medium grained		ts talc - serpentine
cg coarse grained		
rg regolith		

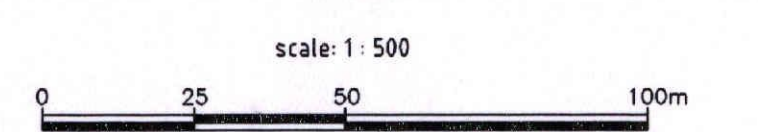
2.18129

**KINROSS**  
 Gold Corporation  
 TIMMINS OPERATION

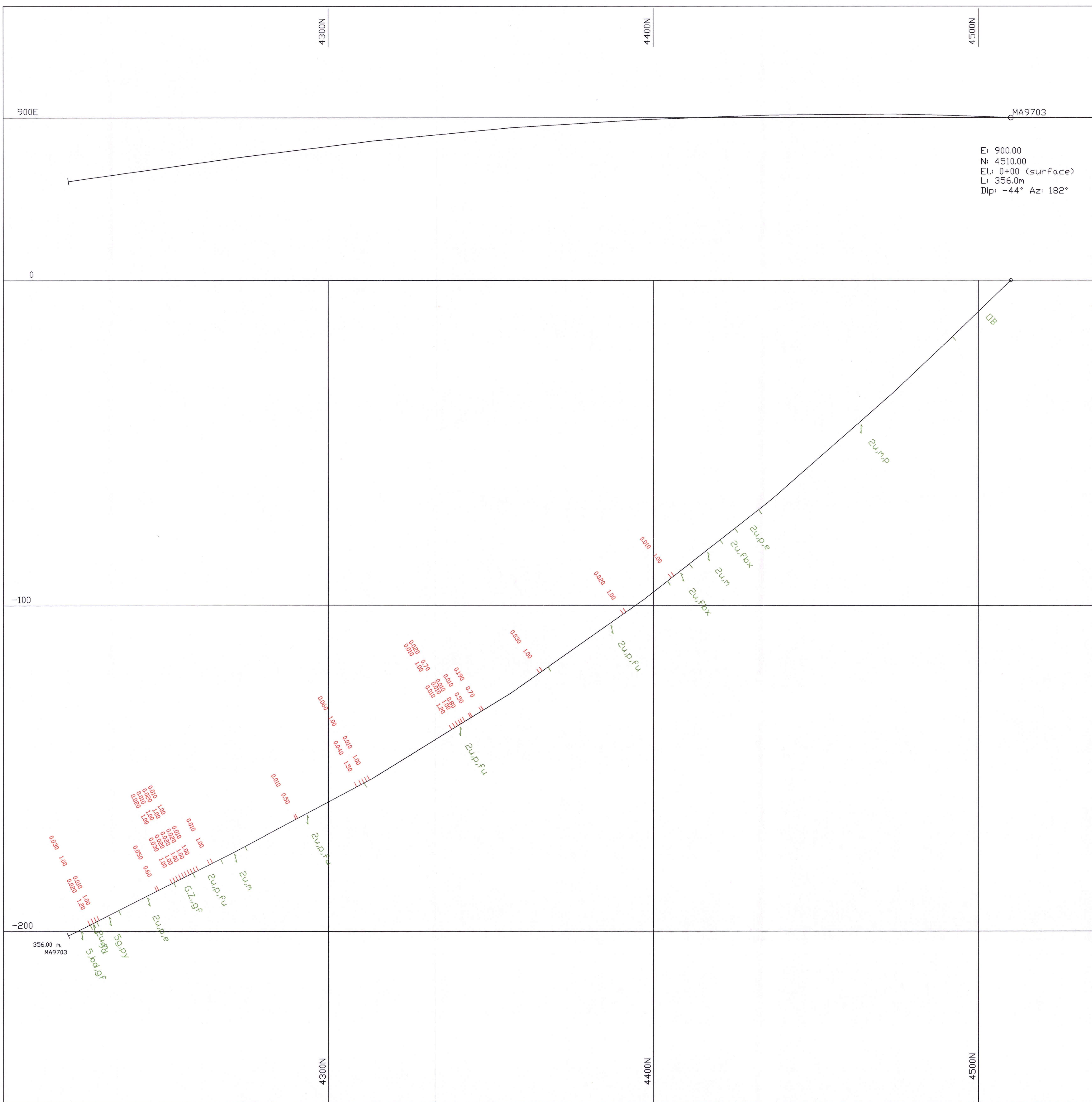
Matheson Township

Drill Hole Section  
 MA97-02 - Claim # P 308598

File:	9702.dwg	Date:	Nov.14, 1997
Drawn by:	sy	Scale:	1 : 500
Geol.:	J.Kovala	Updated:	Nov.18, 1997 sy







E: 900.00  
 N: 4510.00  
 E.L.: 0+00 (surface)  
 L: 356.0m  
 Dip: -44° Az: 182°

**Legend**

**Rock Type**

- 10 Diabase
- 9 Felsic Intrusive
  - 9d Quartz Feldspar Porphyry
  - 9q Quartz Porphyry
- 8 Intermediate Intrusive
- 7 Mafic Intrusive
- 6 Ultramafic Intrusive
- 5 Sedimentary Rock
  - 5a Argillite
  - 5g Graphitic Argillite
  - 5f Greywacke
  - 5cgl Conglomerate
  - 5cht Chert
- 4 Felsic Volcanic
- 3 Intermediate Volcanic
- 2 Mafic Volcanic
  - 2u Magnesium Tholeiite
  - 2v Iron Tholeiite
- 1 Ultramafic Volcanic
  - 1k Peridotitic Komatiite
  - 1bk Basaltic Komatiite



Texture	Mineralization	Alteration
fl foliation	Au gold	al albite
m massive	as arsenopyrite	ak/ank ankerite
p pitted	cpy chalcopyrite	bl bleached
hy hyaloclastic	ga galena	c carbonaceous
fbx flow breccia	gf/g graphite	cb carbonate
e amygdaloidal	py pyrite	ca/cal calcite
bx breccia	po pyrrhotite	ch chlorite
vr variolitic	vg visible gold	dol dolomite
r/ps polysutured	qv quartz veining	ep epidote
sfx spinifex	qav quartz ankerite veining	fu fuchsite
lm laminated	qcq quartz calcite veining	gz grey zone
bd bedded	qcbv quartz carbonate veining	he hematite
fz/ft fault zone	mt magnetite	k potassic alteration
go gouge	sp sphalerite	se sericite
rbl rubble	rm tourmaline	sr serpentine
gc ground core	lx leucoxene	sl silicification
fg fine grained		tc talc - chlorite
mg medium grained		ts talc - serpentine
cg coarse grained		
rg regolith		

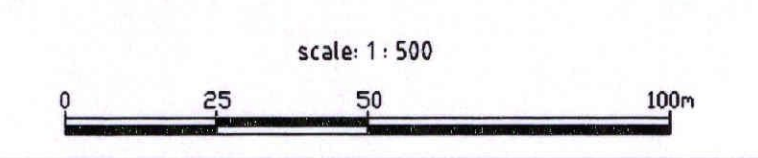
2-18129

**KINROSS**  
 Gold Corporation  
 TIMMINS OPERATION

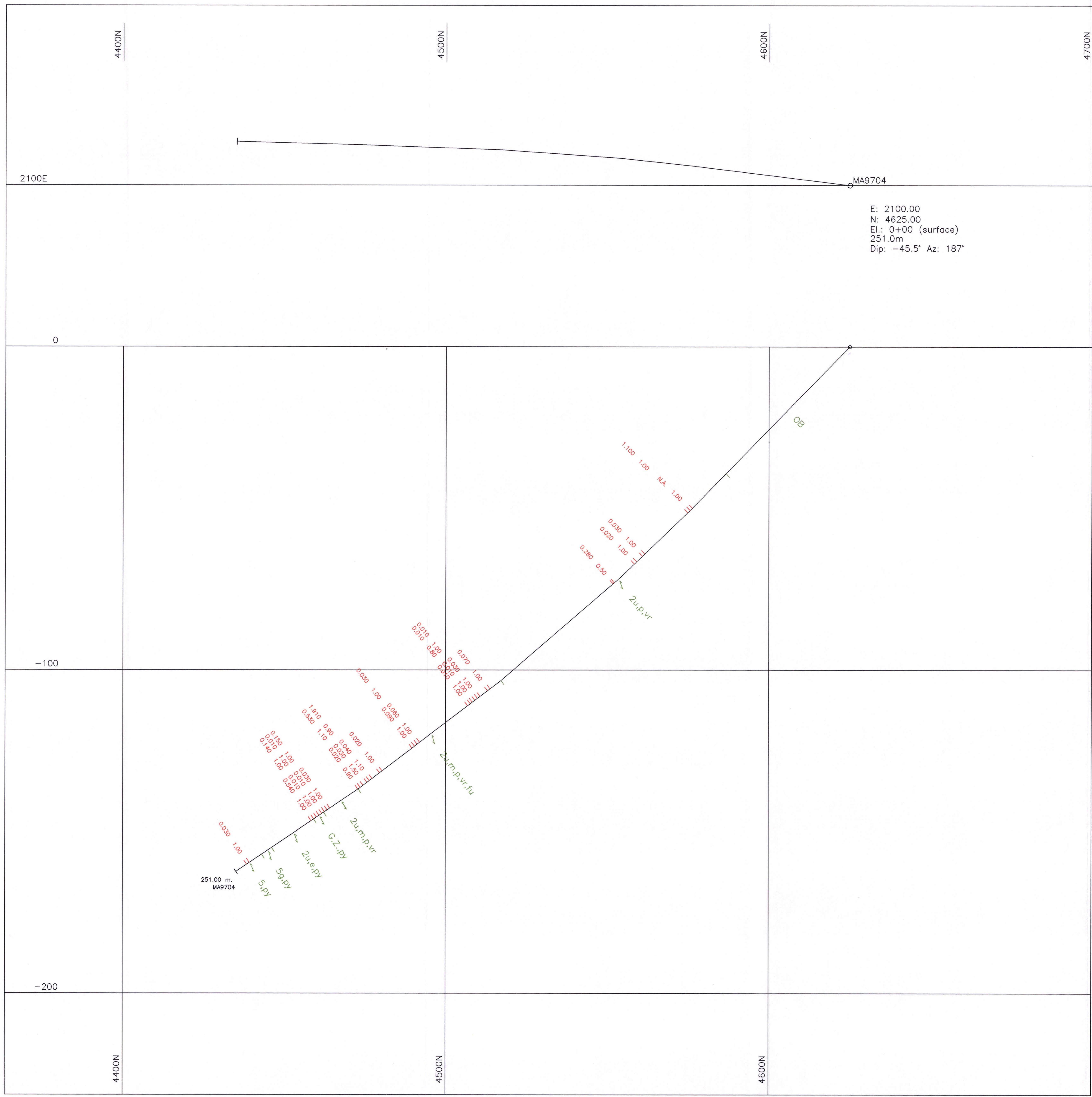
Matheson Township

Drill Hole Section  
 MA97-03 - Claim # P 308566

File: 9703.dwg	Date: Nov.14, 1997
Drawn by: sy	Scale: 1 : 500
Geol.: J.Kovala	Updated: Nov.18, 1997 sy







E: 2100.00  
 N: 4625.00  
 EL.: 0+00 (surface)  
 251.0m  
 Dip: -45.5° Az: 187°

**Legend**

**Rock Type**

- 10 Diabase
- 9 Felsic Intrusive
- 9d Quartz Feldspar Porphyry
- 9q Quartz Porphyry
- 8 Intermediate Intrusive
- 7 Mafic Intrusive
- 6 Ultramafic Intrusive
- 5 Sedimentary Rock
- 5a Argillite
- 5g Graphitic Argillite
- 5f Greywacke
- 5cgl Conglomerate
- 5cht Chert
- 4 Felsic Volcanic
- 3 Intermediate Volcanic
- 2 Mafic Volcanic
- 2u Magnesium Tholeiite
- 2v Iron Tholeiite
- 1 Ultramafic Volcanic
- 1k Peridotitic Komatiite
- 1bk Basaltic Komatiite



Texture	Mineralization	Alteration
fl foliation	Au gold	al albite
m massive	as arsenopyrite	ak/ank ankerite
p pillowed	cpy chalcopyrite	bl bleached
hy hyaloclastic	ga galena	c carbonaceous
fbx flow breccia	gf/g graphite	cb carbonate
e amygdaloidal	py pyrite	ca/cal calcite
bx breccia	po pyrrhotite	ch chlorite
vr variolitic	vg visible gold	dol dolomite
r/ps polysutured	qv quartz veining	ep epidote
sfx spinifex	qav quartz ankerite veining	fu fuchsite
lm laminated	qcv quartz calcite veining	gz grey zone
bd bedded	qcb quartz carbonate veining	he hematite
fz/flt fault zone	mt magnetite	k potassic alteration
go gouge	sp sphalerite	se sericite
rbl rubble	tm tourmaline	sr serpentine
gc ground core	lx leucoxene	sl silicification
fg fine grained		tc talc - chlorite
mg medium grained		ts talc - serpentine
rg regolith		

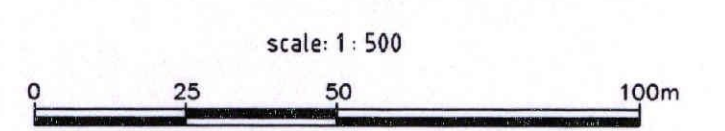
2.18129

**KINROSS**  
 Gold Corporation  
 TIMMINS OPERATION

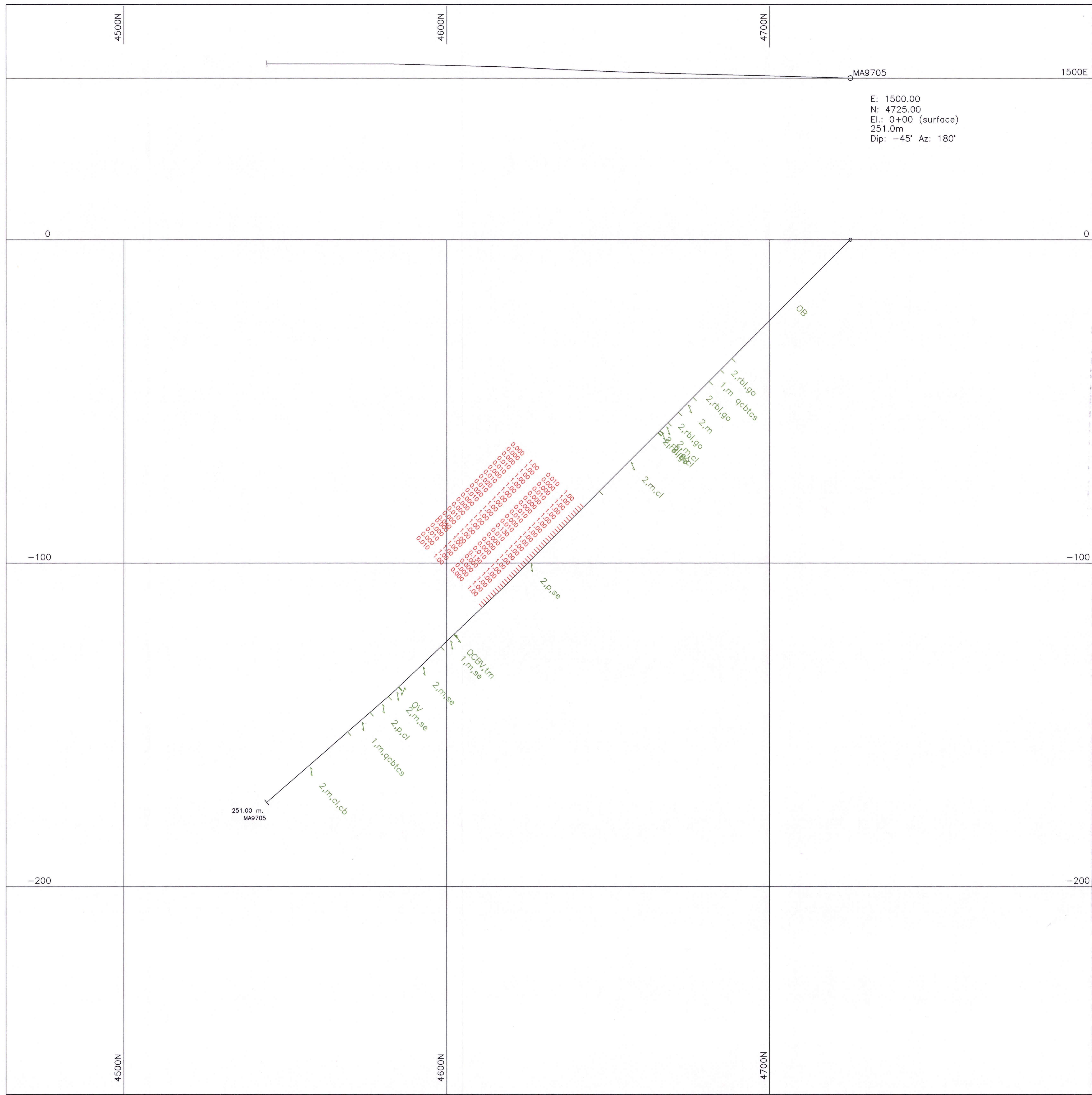
Matheson Township

Drill Hole Section  
 MA97-04 - Claim # P 308555

File:	9704.dwg	Date:	Nov.14, 1997
Drawn by:	sy	Scale:	1 : 500
Geol.:	J.Kovala	Updated:	Nov.18, 1997 sy







E: 1500.00  
 N: 4725.00  
 El.: 0+00 (surface)  
 251.0m  
 Dip: -45° Az: 180°

**Legend**

**Rock Type**

- 10 Diabase
- 9 Felsic Intrusive
- 9d Quartz Feldspar Porphyry
- 9q Quartz Porphyry
- 8 Intermediate Intrusive
- 7 Mafic Intrusive
- 6 Ultramafic Intrusive
- 5 Sedimentary Rock
- 5a Argillite
- 5g Graphitic Argillite
- 5f Greywacke
- 5cgl Conglomerate
- 5cht Chert
- 4 Felsic Volcanic
- 3 Intermediate Volcanic
- 2 Mafic Volcanic
- 2u Magnesium Tholeiite
- 2v Iron Tholeiite
- 1 Ultramafic Volcanic
- 1k Peridotitic Komatiite
- 1bk Basaltic Komatiite



Texture	Mineralization	Alteration
fl foliation	Au gold	al albite
m massive	as arsenopyrite	ak/ank ankerite
p pillowed	cpy chalcopyrite	bl bleached
hy hyaloclastic	ga galena	c carbonaceous
fbx flow breccia	gf/g graphite	cb carbonate
e amygdaloidal	py pyrite	ca/cal calcite
bx breccia	po pyrrhotite	ch chlorite
vr variolitic	vg visible gold	dol dolomite
r/ps polysulfured	qv quartz veining	ep epidote
sfx spinifex	qav quartz ankerite veining	fu fuchsite
lm laminated	qcv quartz calcite veining	gz grey zone
bd bedded	qcbv quartz carbonate veining	he hematite
fz/ft fault zone	mt magnetite	k potassic alteration
go gouge	sp sphalerite	se sericite
rbl rubble	tm tourmaline	sr serpentine
gc ground core	lx leucoxene	sl silicification
fg fine grained		tc talc - chlorite
mg medium grained		ts talc - serpentine
cg coarse grained		
rg regolith		

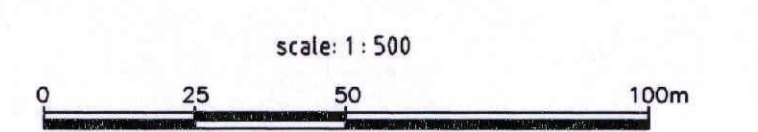
2-18129

**KINROSS**  
 Gold Corporation  
 TIMMINS OPERATION

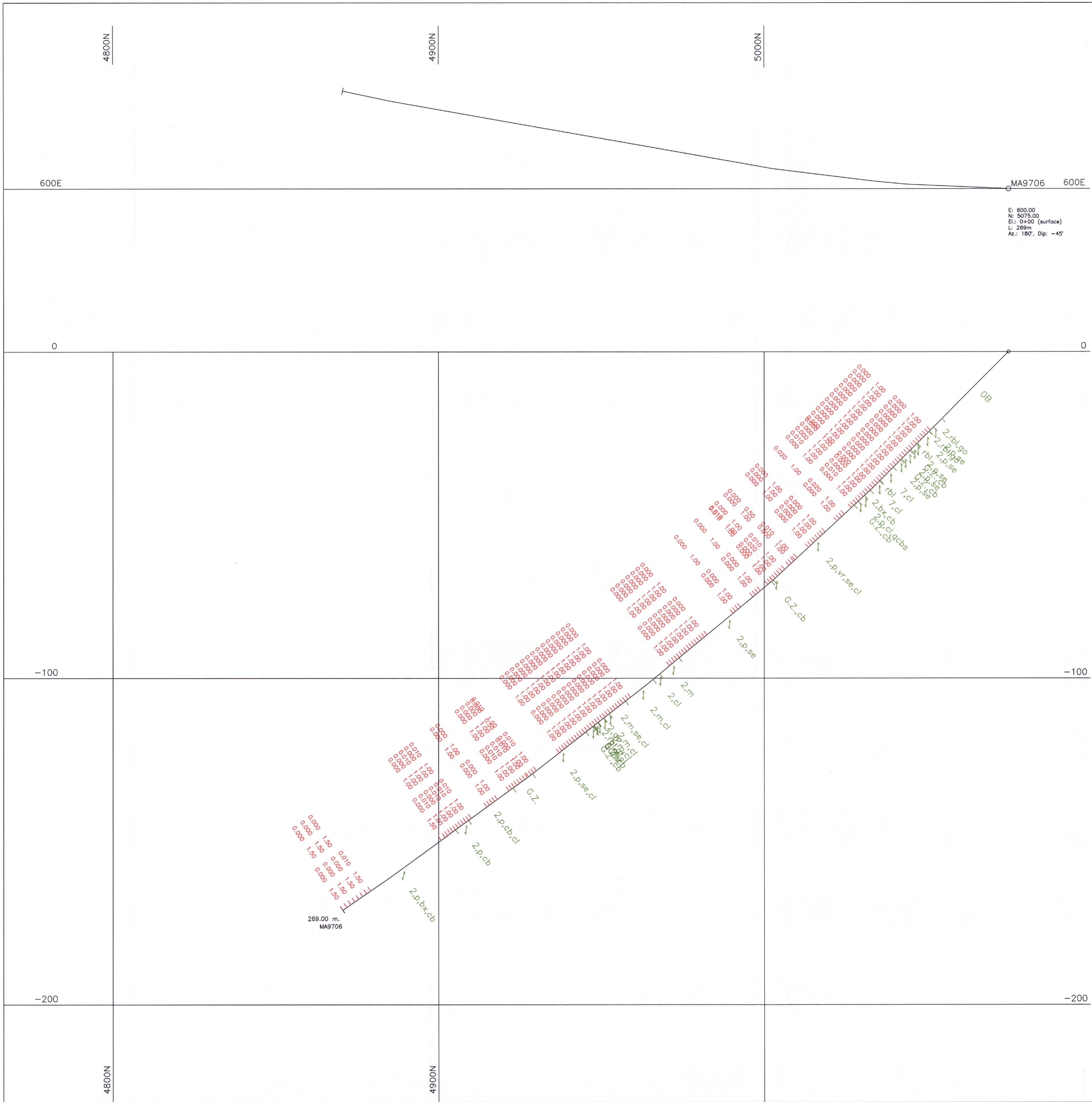
Matheson Township

Drill Hole Section  
 MA97-05 - Claim # P 308563

File:	9705.dwg	Date:	Nov.14, 1997
Drawn by:	sy	Scale:	1 : 500
Geol.:	J.Kovala	Updated:	Nov.18, 1997 sy







E: 600.00  
 N: 5075.00  
 El.: 0+00 (surface)  
 L: 269m  
 Az.: 180°, Dip: -45°

### Legend

#### Rock Type

- 10 Diabase
- 9 Felsic Intrusive
  - 9d Quartz Feldspar Porphyry
  - 9q Quartz Porphyry
- 8 Intermediate Intrusive
- 7 Mafic Intrusive
- 6 Ultramafic Intrusive
- 5 Sedimentary Rock
  - 5a Argillite
  - 5g Graphitic Argillite
  - 5f Greywacke
  - 5cgl Conglomerate
  - 5cht Chert
- 4 Felsic Volcanic
- 3 Intermediate Volcanic
- 2 Mafic Volcanic
  - 2u Magnesium Tholeiite
  - 2v Iron Tholeiite
- 1 Ultramafic Volcanic
  - 1k Peridotitic Komatiite
  - 1bk Basaltic Komatiite



Texture	Mineralization	Alteration
fl foliation	Au gold	al albite
m massive	as arsenopyrite	ak/ank ankerite
p pillowed	cpy chalcopyrite	bl bleached
hy hyaloclastic	ga galena	c carbonaceous
fbx flow breccia	gf/g graphite	cb carbonate
e amygdaloidal	py pyrite	ca/cal calcite
bx breccia	po pyrrhotite	ch chlorite
vr variolitic	vg visible gold	dol dolomite
r/ps polysutured	qv quartz veining	ep epidote
sfx spinifex	qav quartz ankerite veining	fu fuchsite
lm laminated	qcv quartz calcite veining	gz grey zone
bd bedded	qcbv quartz carbonate veining	he hematite
fz/flt fault zone	mt magnetite	k potassic alteration
go gouge	sp sphalerite	se sericite
rbl rubble	tm tourmaline	sr serpentine
gc ground core	lx leucoxene	sl silicification
fg fine grained		tc talc - chlorite
mg medium grained		ts talc - serpentine
cg coarse grained		
rg regolith		

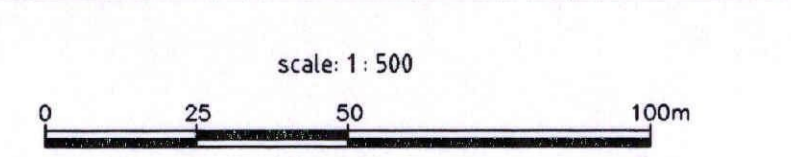
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**KINROSS**  
 Gold Corporation  
 TIMMINS OPERATION

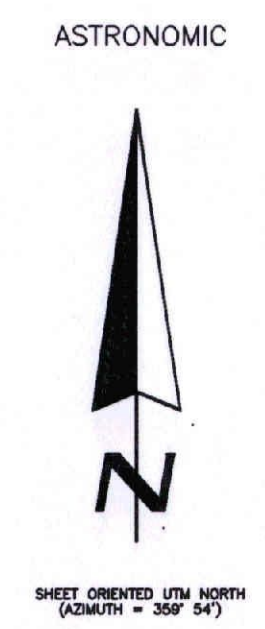
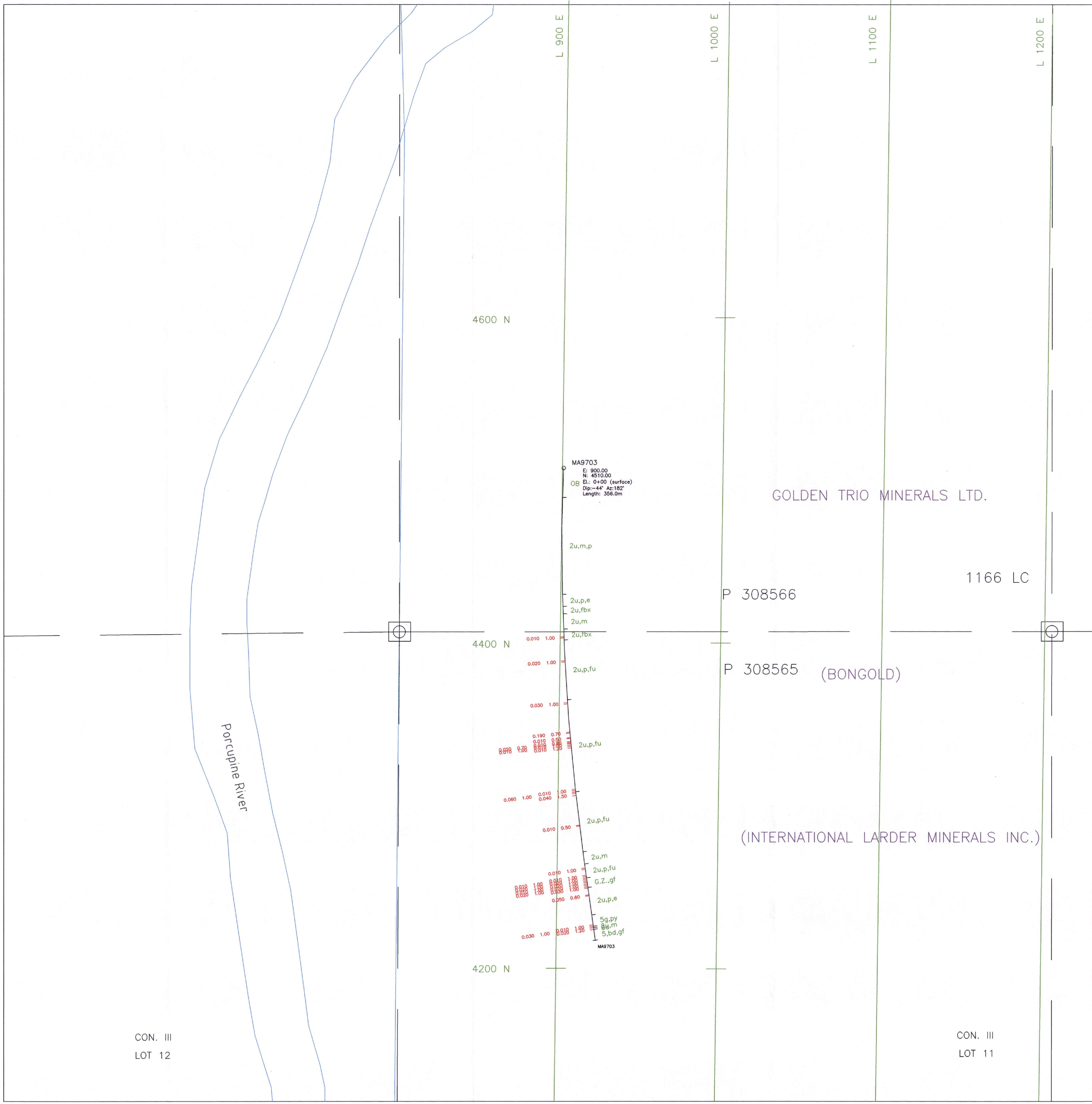
Matheson Township

Drill Hole Section  
 MA97-06 - Claim # P 308567

File:	9706.dwg	Date:	Nov.14, 1997
Drawn by:	sy	Scale:	1 : 500
Geol.:	J.Kovala	Updated:	Nov.18, 1997 sy







**Legend**

**Rock Type**

- 10 Diabase
- 9 Felsic Intrusive
- 9d Quartz Feldspar Porphyry
- 9q Quartz Porphyry
- 8 Intermediate Intrusive
- 7 Mafic Intrusive
- 6 Ultramafic Intrusive
- 5 Sedimentary Rock
- 5a Argillite
- 5g Graphitic Argillite
- 5f Greywacke
- 5cgl Conglomerate
- 5cht Chert
- 4 Felsic Volcanic
- 3 Intermediate Volcanic
- 2 Mafic Volcanic
- 2u Magnesium Tholeiite
- 2v Iron Tholeiite
- 1 Ultramafic Volcanic
- 1k Peridotitic Komatiite
- 1bk Basaltic Komatiite



Texture	Mineralization	Alteration
fl foliation	Au gold	al albite
m massive	as arsenopyrite	ak/ank ankerite
p pillowed	cpy chalcopyrite	bl bleached
hy hyaloclastic	ga galena	c carbonaceous
fbx flow breccia	gf/g graphite	cb carbonate
e amygdaloidal	py pyrite	ca/cal calcite
bx breccia	po pyrrhotite	ch chlorite
vr variolitic	vg visible gold	dol dolomite
r/ps polysutured	qv quartz veining	ep epidote
sfx spinifex	qav quartz ankerite veining	fu fuchsite
lm laminated	qcv quartz calcite veining	gz grey zone
bd bedded	qcbv quartz carbonate veining	he hematite
fz/flt fault zone	mt magnetite	k potassic alteration
go gouge	sp sphalerite	se sericite
rbl rubble	tm tourmaline	sr serpentine
gc ground core	lx leucoxene	sl silicification
fg fine grained		fc falc - chlorite
mg medium grained		fs falc - serpentine
cg coarse grained		
rg regolith		

2.18129

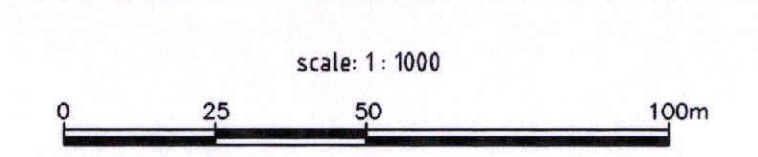
**KINROSS**  
Gold Corporation  
TIMMINS OPERATION

Matheson Township

DDH Program

Central Grid MA97-03

File:	northpln.dwg	Date:	Nov.14, 1997
Drawn by:	sy	Scale:	1 : 1000
Geol.:	J.Kovala	Updated:	Nov.18, 1997 sy



CON. III  
LOT 12

CON. III  
LOT 11



2200' E

2400 E (731.52m E)

2600' E

2800' E

3000 E (914.40m E)

800' S  
243.84m S

GOLDEN TRIO MINERALS LTD.  
(INTERNATIONAL LARDER MINERALS INC.)

P 308601

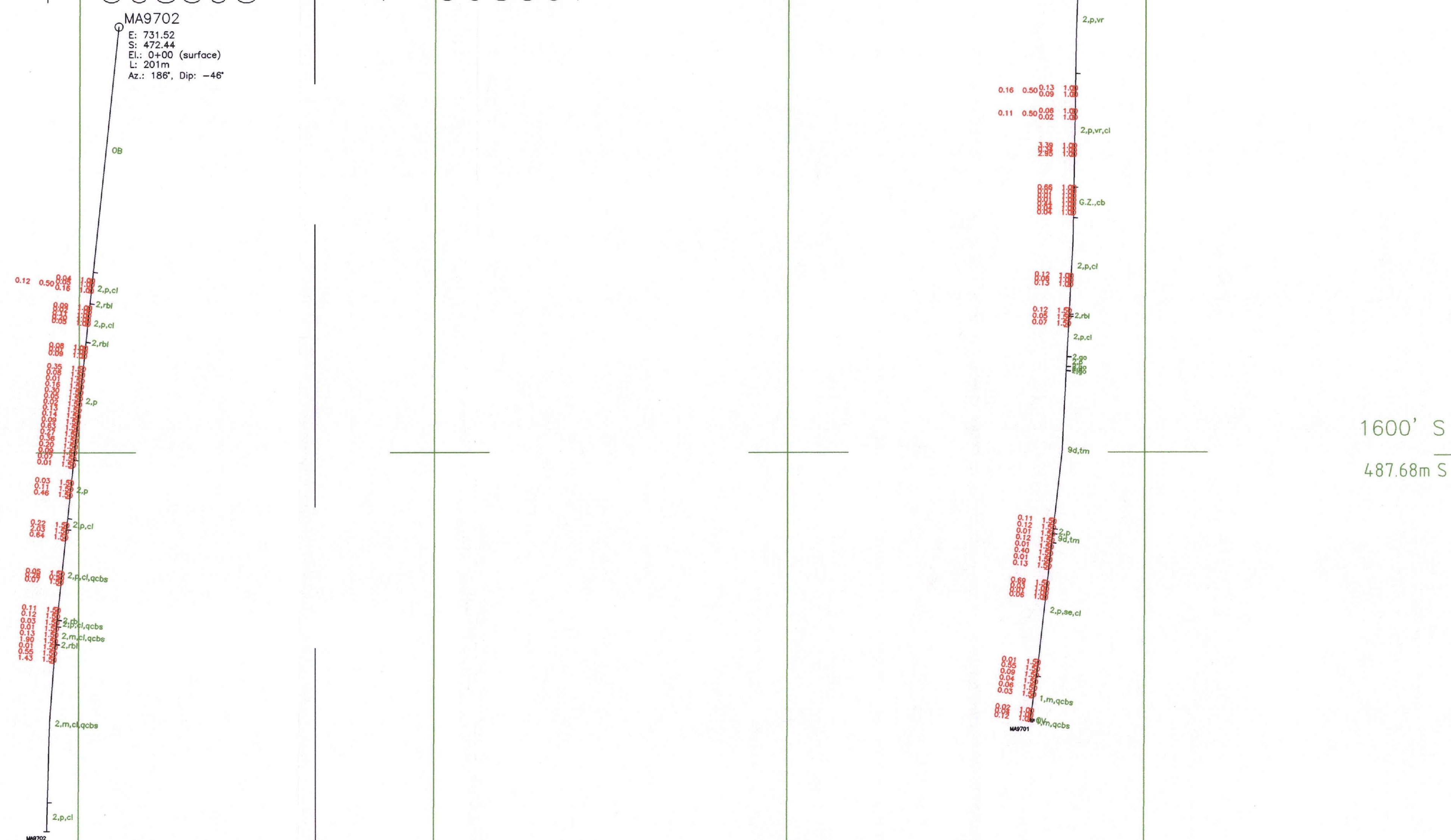
P 308602

P 308598

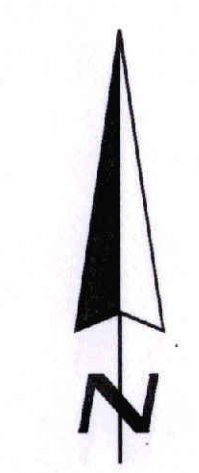
P 308597

MA9702  
E: 731.52  
S: 472.44  
El.: 0+00 (surface)  
L: 201m  
Az.: 186°, Dip: -46°

MA9701  
E: 914.40  
S: 335.28  
El.: 0+00 (surface)  
L: 363m  
Az.: 187°, Dip: -47°



ASTRONOMIC



SHEET ORIENTED WITH NORTH  
(MAGNETIC = 306° 47')

Legend

Rock Type

- 10 Diabase
- 9 Felsic Intrusive
  - 9d Quartz Feldspar Porphyry
  - 9q Quartz Porphyry
- 8 Intermediate Intrusive
- 7 Mafic Intrusive
- 6 Ultramafic Intrusive
- 5 Sedimentary Rock
  - 5a Argillite
  - 5g Graphitic Argillite
  - 5f Greywacke
  - 5cgl Conglomerate
  - 5cht Chert
- 4 Felsic Volcanic
- 3 Intermediate Volcanic
- 2 Mafic Volcanic
  - 2u Magnesium Tholeiite
  - 2v Iron Tholeiite
- 1 Ultramafic Volcanic
  - 1k Peridotitic Komatiite
  - 1bk Basaltic Komatiite



Texture	Mineralization	Alteration
fl foliation	Au gold	al albite
m massive	as arsenopyrite	ak/ank ankerite
p pillowed	cpy chalcopyrite	bl bleached
hy hyaloclastic	ga galena	c carbonaceous
fbx flow breccia	gf/g graphite	cb carbonate
e amygdaloidal	py pyrite	ca/cal calcite
bx breccia	po pyrrhotite	ch chlorite
vr variolitic	vg visible gold	dol dolomite
r/ps polysutured	qv quartz veining	ep epidote
sfx spinifex	qav quartz ankerite veining	fu fuchsite
lm laminated	qcv quartz calcite veining	gz grey zone
bd bedded	qcbv quartz carbonate veining	he hematite
fz/fit fault zone	mt magnetite	k potassic alteration
go gouge	sp sphalerite	se sericite
rbl rubble	tr tourmaline	sr serpentine
gc ground core	lx leucoxene	sl silicification
fg fine grained		tc talc - chlorite
mg medium grained		ts talc - serpentine
cg coarse grained		
rg regolith		

2.18129

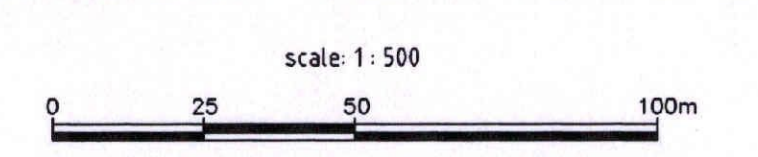
**KINROSS**  
Gold Corporation  
TIMMINS OPERATION

Matheson Township

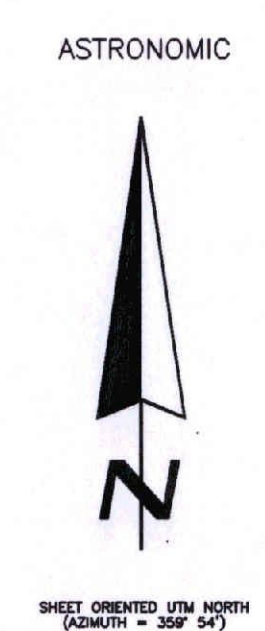
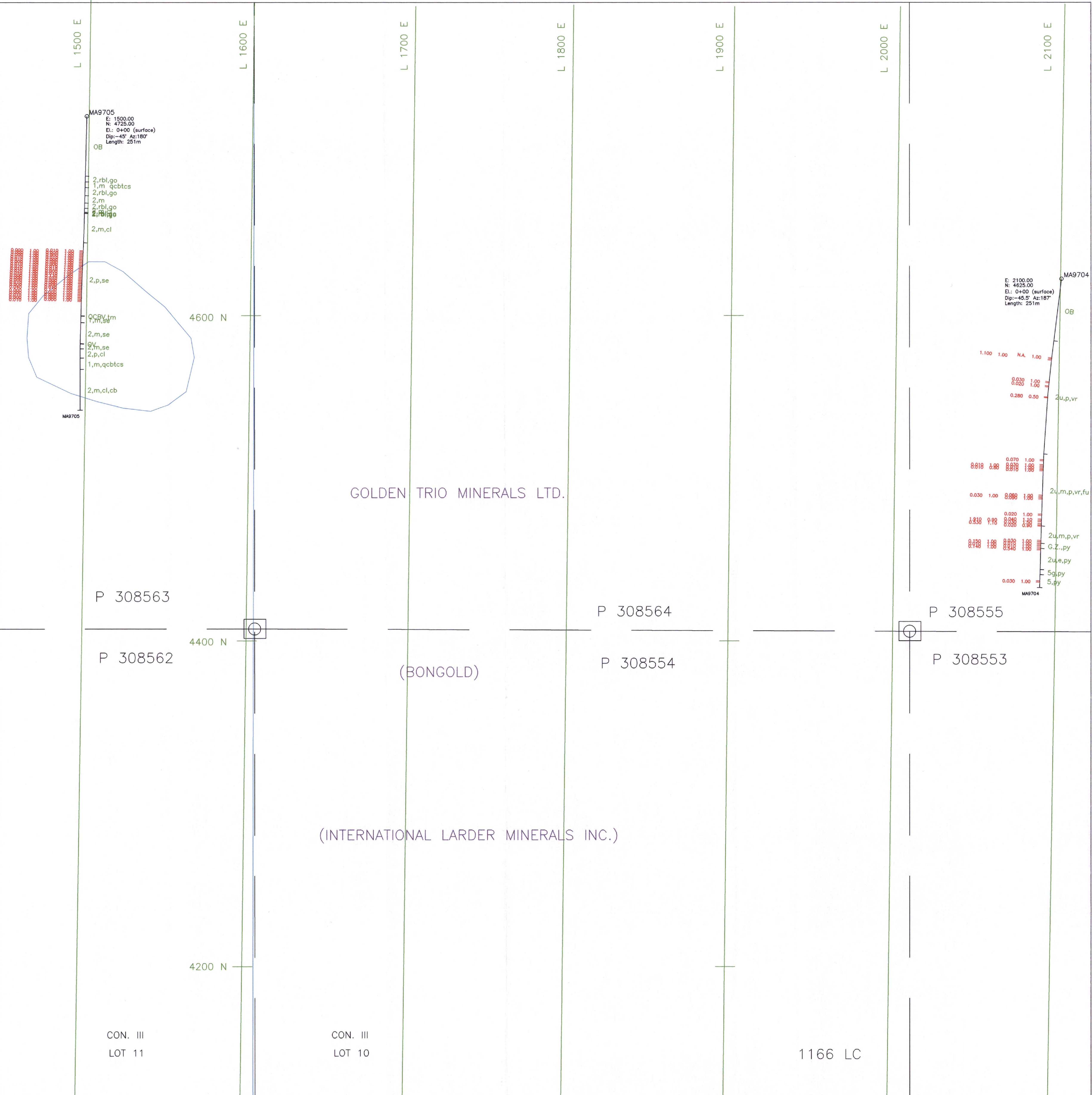
DDH Program

South Grid MA97-01, MA97-02

File:	southpln.dwg	Date:	Nov.14, 1997
Drawn by:	sy	Scale:	1 : 500
Geol.:	J.Kovala	Updated:	Nov.18, 1997 sy







**Legend**

**Rock Type**

- 10 Diabase
- 9 Felsic Intrusive
- 9d Quartz Feldspar Porphyry
- 9q Quartz Porphyry
- 8 Intermediate Intrusive
- 7 Mafic Intrusive
- 6 Ultramafic Intrusive
- 5 Sedimentary Rock
- 5a Argillite
- 5g Graphitic Argillite
- 5f Greywacke
- 5cgl Conglomerate
- 5ch Chert
- 4 Felsic Volcanic
- 3 Intermediate Volcanic
- 2 Mafic Volcanic
- 2u Magnesian Tholeiite
- 2v Iron Tholeiite
- 1 Ultramafic Volcanic
- 1k Pseudotach Komatiite
- 1bk Basaltic Komatiite



Texture	Mineralization	Alteration
fl foliation	Au gold	al albite
m massive	as arsenopyrite	ak/ank ankerite
p pillowed	cpy chalcopyrite	bl bleached
hy hyaloclastic	ga galena	c carbonaceous
fbx flow breccia	gf/g graphite	cb carbonate
e amygdaloidal	py pyrite	ca/cal calcite
bx breccia	po pyrrhotite	ch chlorite
vr variolitic	vg visible gold	dol dolomite
r/ps polysutured	qv quartz veining	ep epidote
sfx spinifex	qav quartz ankerite veining	fu fuchsite
lm laminated	qcq quartz calcite veining	gz grey zone
bd bedded	qcb quartz carbonate veining	he hematite
fz/flt fault zone	mt magnetite	k potassic alteration
go gouge	sp sphalerite	se sericite
rbl rubble	tm tourmaline	sr serpentine
gc ground core	lx leucoxene	sl silicification
fg fine grained		tc talc - chlorite
mg medium grained		ts talc - serpentine
cq coarse grained		
rg regolith		

2.18129

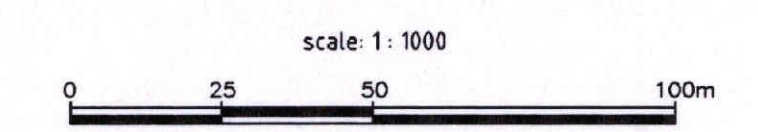
**KINROSS**  
Gold Corporation  
TIMMINS OPERATION

Matheson Township

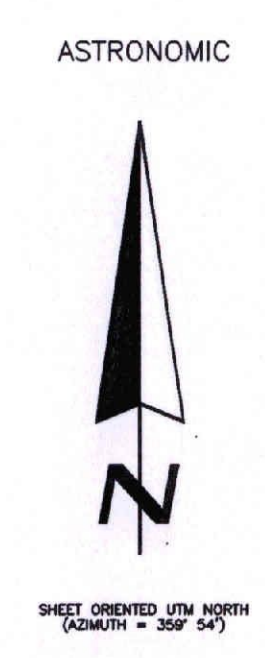
DDH Program

Central Grid MA97-04, MA97-05

File:	northpln.dwg	Date:	Nov.14, 1997
Drawn by:	sy	Scale:	1 : 1000
Geol.:	J.Kovala	Updated:	Nov.18, 1997 sy







**Legend**

**Rock Type**

- 10 Diabase
- 9 Felsic Intrusive
- 9d Quartz Feldspar Porphyry
- 9q Quartz Porphyry
- 8 Intermediate Intrusive
- 7 Mafic Intrusive
- 6 Ultramafic Intrusive
- 5 Sedimentary Rock
- 5a Argillite
- 5g Graphitic Argillite
- 5f Greywacke
- 5cgl Conglomerate
- 5chl Chert
- 4 Felsic Volcanic
- 3 Intermediate Volcanic
- 2 Mafic Volcanic
- 2u Magnesium Tholeiite
- 2v Iron Tholeiite
- 1 Ultramafic Volcanic
- 1k Peridotitic Komatiite
- 1bk Basaltic Komatiite



Texture	Mineralization	Alteration
fl foliation	Au gold	al albite
m massive	as arsenopyrite	ak/ank ankerite
p pillowed	cpy chalcopyrite	bl bleached
hy hyaloclastic	ga galena	c carbonaceous
fbx flow breccia	gf/g graphite	cb carbonate
e amygdaloidal	py pyrite	ca/cal calcite
bx breccia	po pyrrhotite	ch chlorite
vr variolitic	vg visible gold	dot dolomite
r/ps polysutured	qv quartz veining	ep epidote
sfx spinifex	qav quartz ankerite veining	fu fuchsite
lm laminated	qcv quartz calcite veining	gz grey zone
bd bedded	qcbv quartz carbonate veining	he hematite
fz/flt fault zone	mt magnetite	k potassic alteration
go gouge	sp sphalerite	se sericite
rbl rubble	tm tourmaline	sr serpentine
gc ground core	lx leucoxene	sl silicification
fg fine grained		tc falc - chlorite
mg medium grained		ts falc - serpentine
cg coarse grained		
rg regolith		

2.18129

**KINROSS**  
Gold Corporation  
TIMMINS OPERATION

Matheson Township

DDH Program

Central Grid MA97-06

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