

2.18006f

**LEGEND**

7	Felsic to Intermediate Plutonic Rocks
7	Unsubdivided
7a	OPF
7b	FP
7c	OP
8	Mafic to Ultramafic Intrusive Rocks
8	Unsubdivided
8a	Gabbro
8b	Diorite
8c	Diabase
8d	Peridotite
8e	Lamprophyre (Alkalic)?
2	Mafic Volcanics
2	Unsubdivided
2a	Massive
2b	Pillowed
2c	Flow Breccia
1	Ultramafic Volcanics
1	Unsubdivided
1a	Massive
1b	Pillowed
1c	Flow Breccia

**MINERALOGY**

vg	visable gold	mag	magnetic	srp	serpentine
cp	chalcopyrite	bk	basaltic komatiite	gf	graphite
sp	sphalerite	uk	ultramafic komatiite	cal	calcite
au	gold	pk	peridotitic komatiite	dol	dolomite
ag	silver	ft	Iron Tholeiite	hm	hematite
ni	nickel	MgT	Magnesium Tholeiite	lx	leucoven
cr	chromite	CA	calc-alkaline	qtz	quartz
mt	magnetite	TR	Transition	tow	tourmaline
mgn	magnesite	T	Tholeiitic	am	amygdales
ma	molybdenite	py	pyrite	bx	breccia
av	ankerite veining	po	pyrrhotite	ct	contact
gav	quartz ankerite veining	asp	arsenopyrite	f	fault
cv	carbonate veining	pn	penlandite	fl	flow
qcv	quartz-carbonate vein	ga	garnet	fol	foliated
gcb	green carbonate	asb	asbestos	g	gouge
oph	ophanitic	tc	talc	hyl	hyaloclastite
fg	fine grained	sr	sericitization	var	variolitic
mg	medium grained	chl	chloritization	mass	massive
cg	coarse grained	cb	carbonitization	sh	shear
l	local	si	silicification	sp	spineliferous
w	weak	ep	epidatization	z	zone
m	moderate	ank	ankerite	sch	schist
s	strong	alb	albite	a	atz pheno
v	very strong	fu	fuchsite	f	feldspar

Timmins, ONT.

**Battle Mountain Gold**

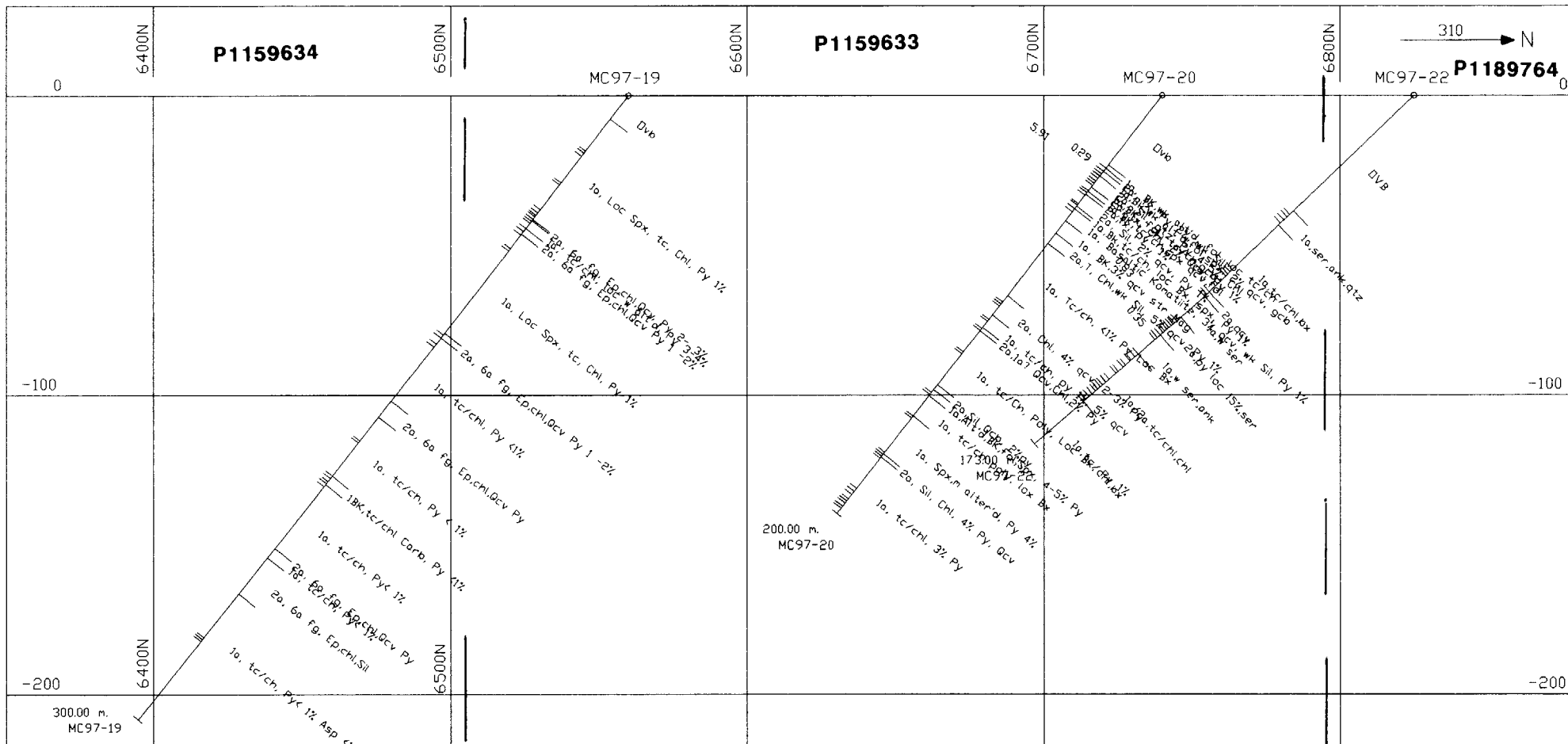
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**SECTION 6375E**

Au >0.25 g/t

**Mahoney Creek**

Interpreted by :	Scale : 1 : 2000
Drawn by :	NTS number :
Revised :	Project number 507
Date : 12/02/97	File number : S182197



LEGEND		MINERALOGY		
<b>7</b> Felsic to Intermediate Plutonic Rocks		VG — visible gold	mag — magnetic	srp — serpentine
<b>7</b> Unsubdivided		cp — chalcopyrite	BK — basaltic komatiite	gf — graphite
<b>7c</b> GFP		sp — sphalerite	UK — ultramafic komatiite	cal — calcite
<b>7d</b> FP		au — gold	PK — peridotitic komatiite	dol — dolomite
<b>7e</b> OP		ag — silver	FeT — Iron Tholeiite	hm — hematite
<b>6</b> Mafic to Ultramafic Intrusive Rocks		ni — nickel	MgT — Magnesium Tholeiite	lv — leucovan
<b>6</b> Unsubdivided		cr — chromite	CA — calc-alkaline	qtz — quartz
<b>6a</b> Gabbro		mt — magnetite	TR — Transition	tow — tourmaline
<b>6b</b> Diorite		mgn — magnesite	T — Tholeiitic	am — amygdaloidal
<b>6c</b> Diabase		mo — molybdenite	py — pyrite	bx — breccia
<b>6d</b> Peridotite		av — ankerite veining	po — pyrrhotite	ct — contact
<b>6a</b> Lamprophyre (Alkalic)?		qav — quartz ankerite veining	asp — arsenopyrite	f — fault
<b>2</b> Mafic Volcanics		cv — carbonate veining	pn — pentlandite	fl — flow
<b>2</b> Unsubdivided		qcv — quartz-carbonate vein	ga — galena	fol — foliated
<b>2a</b> Massive		gcb — green carbonate	asb — asbestos	g — gauge
<b>2b</b> Pillowed		aph — aphanitic	tc — talc	hyl — hyaloclastite
<b>2c</b> Flow Breccia		fg — fine grained	sr — sericitization	var — variolitic
<b>1</b> Ultramafic Volcanics		mg — medium grained	chl — chloritization	mass — massive
<b>1</b> Unsubdivided		cg — coarse grained	cb — carbonitization	sh — shear
<b>1a</b> Massive		l — local	si — silicification	sp — spinifex
<b>1b</b> Pillowed		w — weak	ep — epidatization	z — zone
<b>1c</b> Flow Breccia		m — moderate	ank — ankerite	sch — schist
		s — strong	alb — albite	q — quartz
		v — very strong	fu — fuchsite	f — feldspar

13006

Timmins.ONT.

**Battle Mountain Gold**

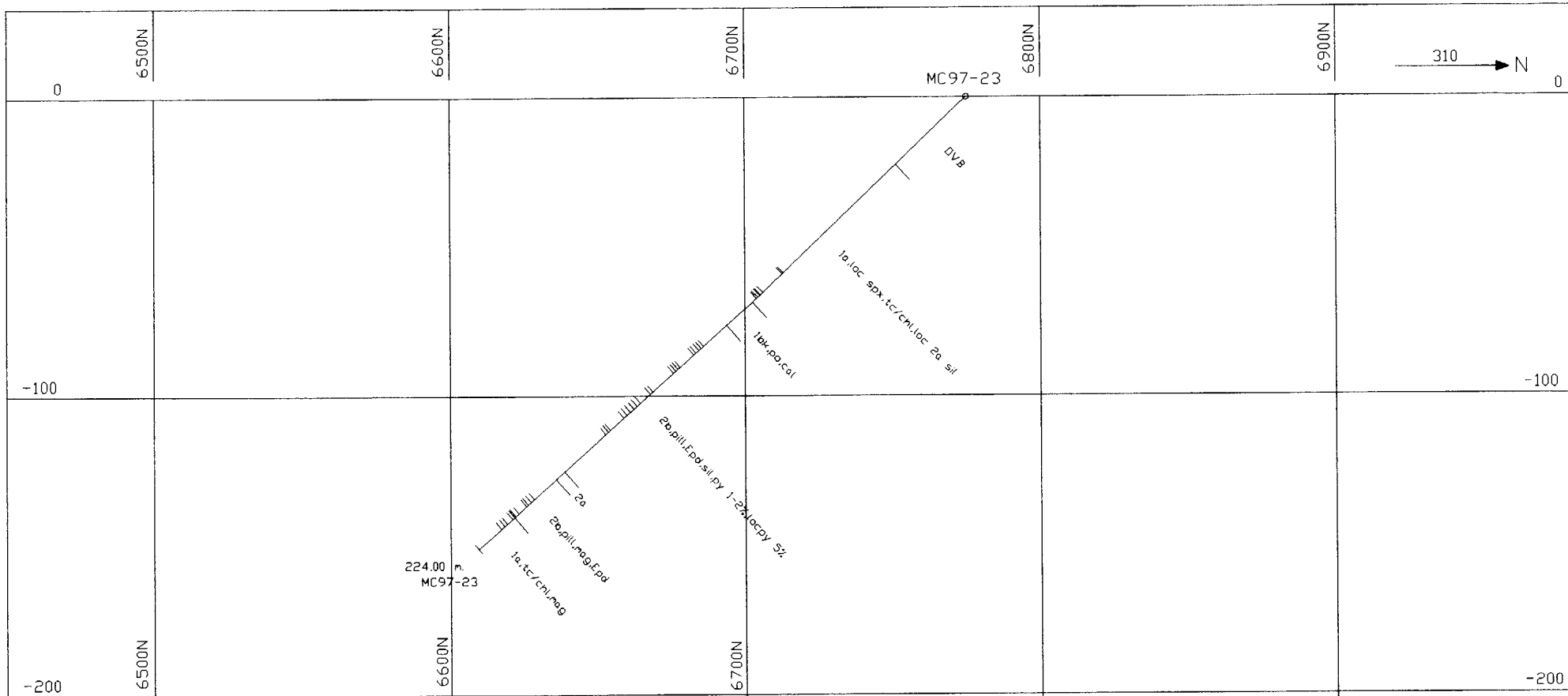
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**SECTION 6750E**

Au >0.25 g/t

**Mahoney Creek**

Interpreted by :	Scale : 1 : 2000
Drawn by :	NTS number :
Revised :	Project number 507
Date : 12/03/97	File number : S1920297



- LEGEND**
- [7] Felsic to Intermediate Plutonic Rocks
    - [7] Unsubdivided
    - [7a] QFP
    - [7d] FP
    - [7a] OP
  - [6] Mafic to Ultramafic Intrusive Rocks
    - [6] Unsubdivided
    - [6a] Gabbro
    - [6b] Diorite
    - [6c] Diabase
    - [6d] Peridotite
    - [6e] Lamprophyre (Alkalic)?
  - [2] Mafic Volcanics
    - [2] Unsubdivided
    - [2a] Massive
    - [2b] Pillowed
    - [2c] Flow Breccia
  - [1] Ultramafic Volcanics
    - [1] Unsubdivided
    - [1a] Massive
    - [1b] Pillowed
    - [1c] Flow Breccia

**MINERALOGY**

VG -- visible gold	mag -- magnetic	srp -- serpentine
cp -- chalcopyrite	BK -- basaltic komatiite	gf -- graphite
sp -- sphalerite	UK -- ultramafic komatiite	cal -- calcite
au -- gold	PK -- peridotitic komatiite	dol -- dolomite
ag -- silver	FeT -- Iron Tholeiite	hm -- hematite
ni -- nickel	MgT -- Magnesium Tholeiite	lx -- leucosen
cr -- chromite	CA -- calc-alkaline	qtz -- quartz
mt -- magnetite	TR -- Transition	low -- tourmaline
mgn -- magnesite	T -- Tholeiitic	am -- amygdaloidal
mo -- molybdenite	py -- pyrite	bx -- breccia
ov -- ankerite veining	po -- pyrrhotite	ct -- contact
qov -- quartz ankerite veining	asp -- arsenopyrite	f -- fault
cv -- carbonate veining	pn -- pentlandite	fl -- flow
qcv -- quartz-carbonate vein	ga -- galena	fol -- foliated
gcb -- green carbonate	asb -- asbestos	g -- gouge
aph -- aphanitic	tc -- talc	hyl -- hyaloclastite
fg -- fine grained	sr -- sericitization	var -- variolitic
mg -- medium grained	chl -- chloritization	mass -- massive
cg -- coarse grained	cb -- carbonitization	sh -- shear
l -- local	si -- silicification	sp -- spinofex
w -- weak	ep -- epidolization	z -- zone
m -- moderate	ank -- ankerite	sch -- schist
s -- strong	alb -- albite	q -- qtz pheno
v -- very strong	fu -- fuchsite	f -- feldspar

2.18006

Timmins, ONT.

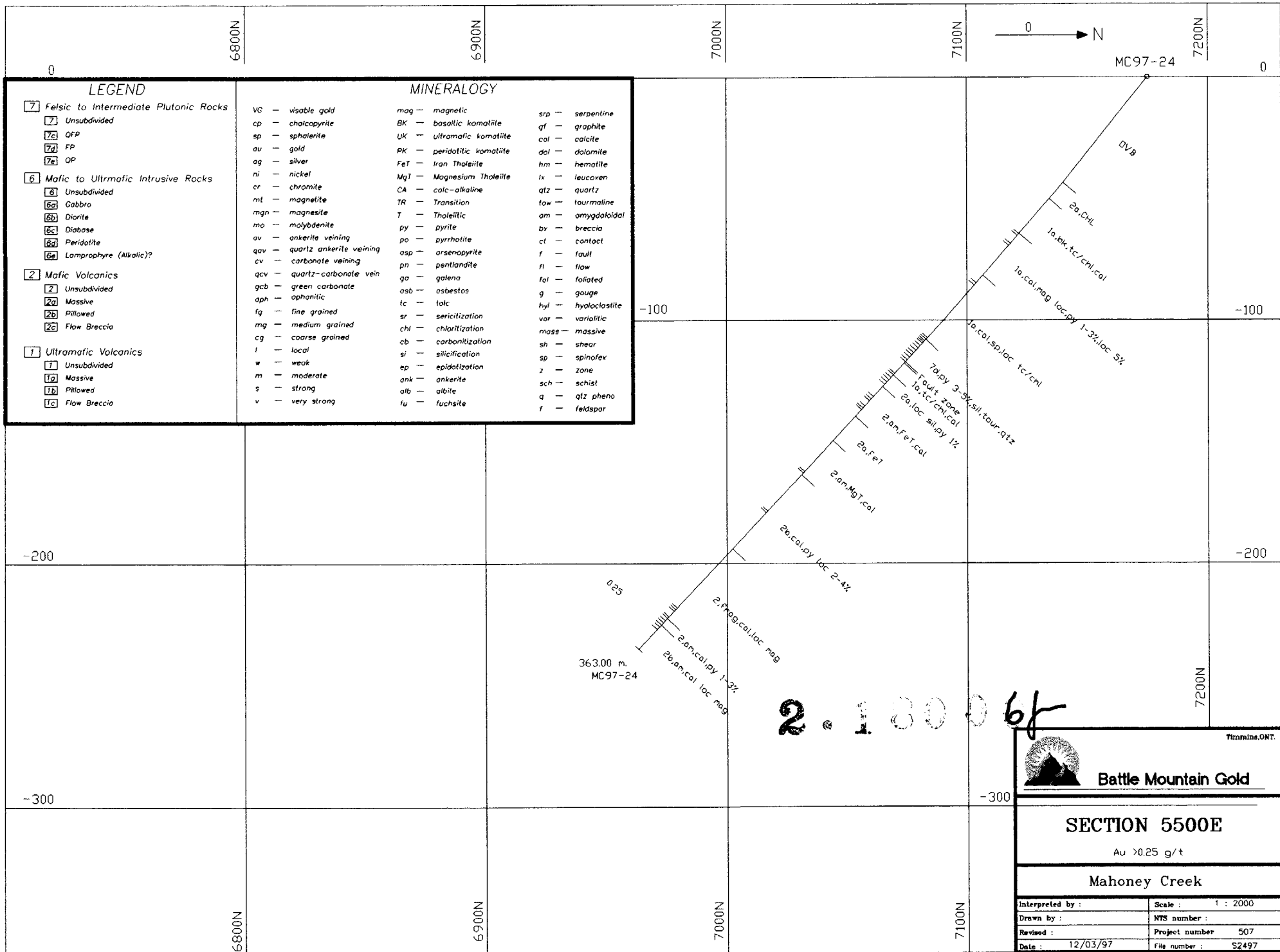
**Battle Mountain Gold**

**SECTION 6875E**

Au >0.25 g/t

**Mahoney Creek**

Interpreted by :	Scale : 1 : 2000
Drawn by :	NFS number :
Revised :	Project number 507
Date : 12/02/97	File number : S2397

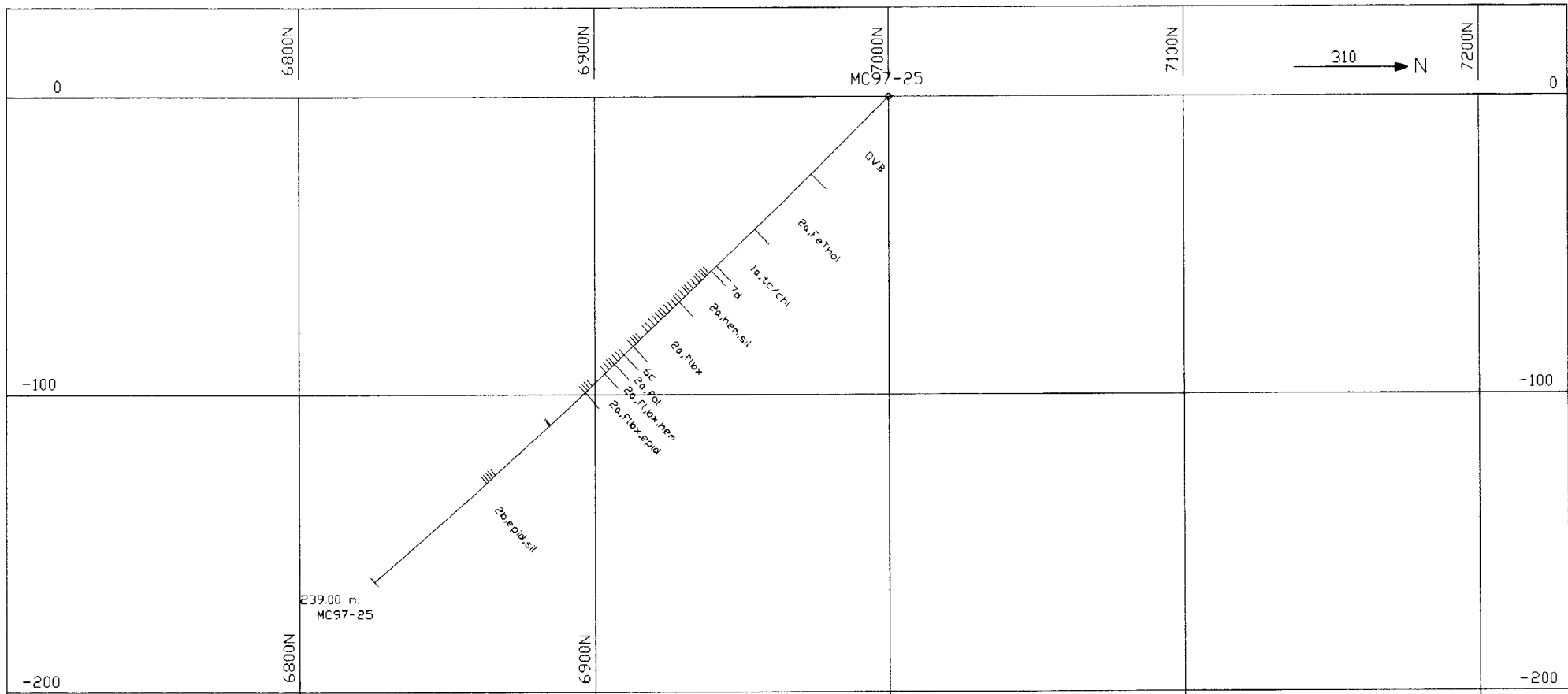


**LEGEND**

- 7 Felsic to Intermediate Plutonic Rocks
  - 7 Unsubdivided
  - 7a QFP
  - 7b FP
  - 7c OP
- 6 Mafic to Ultramafic Intrusive Rocks
  - 6 Unsubdivided
  - 6a Gabbro
  - 6b Diorite
  - 6c Diabase
  - 6d Peridotite
  - 6e Lamprophyre (Alkalic)?
- 2 Mafic Volcanics
  - 2 Unsubdivided
  - 2a Massive
  - 2b Pillowed
  - 2c Flow Breccia
- 1 Ultramafic Volcanics
  - 1 Unsubdivided
  - 1a Massive
  - 1b Pillowed
  - 1c Flow Breccia

**MINERALOGY**

VG — visible gold	mag — magnetic	spr — serpentine
cp — chalcopyrite	BK — basaltic komatiite	gf — graphite
sp — sphalerite	UK — Ultramafic komatiite	cal — calcite
au — gold	PK — peridotitic komatiite	dol — dolomite
ag — silver	FeT — Iron Tholeiite	hm — hematite
ni — nickel	MgT — Magnesium Tholeiite	lx — leucopen
cr — chromite	CA — calc-alkaline	qtz — quartz
mt — magnetite	TR — Transition	tow — tourmaline
mgn — magnesite	T — Tholeiitic	am — amygdaloidal
mo — molybdenite	py — pyrite	bx — breccia
av — ankerite veining	po — pyrrhotite	ct — contact
qav — quartz ankerite veining	asp — arsenopyrite	f — fault
cv — carbonate veining	pn — pentlandite	fl — flow
qcv — quartz-carbonate vein	ga — galena	fol — foliated
gcb — green carbonate	asb — asbestos	g — gouge
aph — ophanitic	tc — talc	hyl — hyaloclastite
fg — fine grained	sr — sericitization	var — variolitic
mg — medium grained	chl — chloritization	mass — massive
cg — coarse grained	cb — carbonitization	sh — shear
l — local	si — silicification	sp — spinofex
w — weak	ep — epidotization	z — zone
m — moderate	ank — ankerite	sch — schist
s — strong	alb — albite	q — qtz pheno
v — very strong	fu — fuchsite	f — feldspar



- LEGEND**
- 7 Felsic to Intermediate Plutonic Rocks**
- 7 Unsubdivided
  - 7a OFP
  - 7a FP
  - 7a OP
- 6 Mafic to Ultramafic Intrusive Rocks**
- 6 Unsubdivided
  - 6a Gabbro
  - 6a Diorite
  - 6a Diabase
  - 6a Peridotite
  - 6a Lamprophyre (Alkalic)?
- 2 Mafic Volcanics**
- 2 Unsubdivided
  - 2a Massive
  - 2b Pillowed
  - 2c Flow Breccia
- 1 Ultramafic Volcanics**
- 1 Unsubdivided
  - 1a Massive
  - 1b Pillowed
  - 1c Flow Breccia

**MINERALOGY**

VG — visible gold	mag — magnetic	srp — serpentine
cp — chalcocopyrite	BK — basaltic komatiite	gf — graphite
sp — sphalerite	UK — ultramafic komatiite	cal — calcite
au — gold	PK — peridotitic komatiite	dol — dolomite
ag — silver	FeT — Iron Tholeiite	hm — hematite
ni — nickel	MgT — Magnesium Tholeiite	lx — leucocoxen
cr — chromite	CA — calc-alkaline	qtz — quartz
mt — magnetite	TR — Transition	low — tourmaline
mgn — magnesite	T — Tholeiitic	am — amygdaloidal
mo — molybdenite	py — pyrite	bx — breccia
av — ankerite veining	po — pyrrhotite	ct — contact
qav — quartz ankerite veining	pn — pentlandite	f — fault
cv — carbonate veining	asp — arsenopyrite	fl — flow
qcv — quartz-carbonate vein	ga — galena	fol — foliated
gcb — green carbonate	asb — asbestos	g — gouge
aph — aphanitic	tc — talc	hyl — hyaloclastite
fg — fine grained	sr — sericitization	var — variolitic
mg — medium grained	chl — chloritization	mass — massive
cg — coarse grained	cb — carbonilization	sh — shear
l — local	si — silicification	sp — spinofex
w — weak	ep — epidolization	z — zone
m — moderate	onk — ankerite	sch — schist
s — strong	alb — albite	q — qtz pheno
v — very strong	fu — fuchsite	f — feldspar

600000 6m

7200N

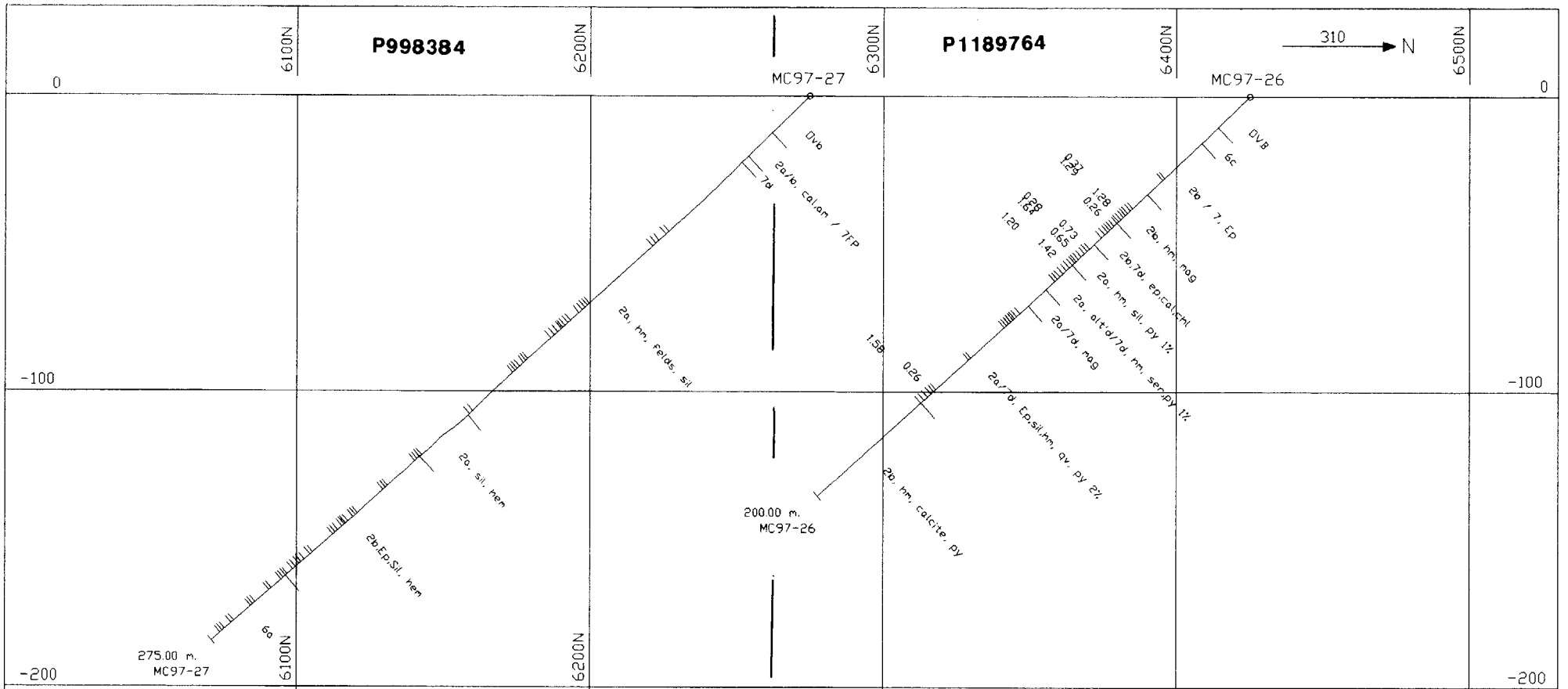
Battle Mountain Gold

**SECTION 5875E**

Au >0.25 g/t

**Mahoney Creek**

Interpreted by :	Scale : 1 : 2000
Drawn by :	NTS number :
Revised :	Project number : 507
Date : 12/02/97	File number : S2597



- LEGEND**
- 7 Felsic to Intermediate Plutonic Rocks**
- 7 Unsubdivided
  - 7c OFP
  - 7d FP
  - 7a OP
- 6 Mafic to Ultramafic Intrusive Rocks**
- 6 Unsubdivided
  - 6a Gabbro
  - 6b Diorite
  - 6c Diabase
  - 6d Peridotite
  - 6e Lamprophyre (Alkalic)?
- 2 Mafic Volcanics**
- 2 Unsubdivided
  - 2a Massive
  - 2b Pillowed
  - 2c Flow Breccia
- 1 Ultramafic Volcanics**
- 1 Unsubdivided
  - 1a Massive
  - 1b Pillowed
  - 1c Flow Breccia

**MINERALOGY**

VG - visible gold	mag - magnetic	srp - serpentine
cp - chalcopyrite	BK - basaltic komatiite	gf - graphite
sp - sphalerite	UK - ultramafic komatiite	cal - calcite
ou - gold	PK - peridotitic komatiite	dol - dolomite
ag - silver	FeT - Iron Tholeiite	hm - hematite
ni - nickel	MgT - Magnesium Tholeiite	lx - leucocoxen
cr - chromite	CA - calc-alkaline	qtz - quartz
mt - magnetite	TR - Transition	tow - tourmaline
mgn - magnesite	T - Tholeiitic	am - amygdaloidal
mo - molybdenite	py - pyrite	bx - breccia
ov - ankerite veining	po - pyrrhotite	ct - contact
qav - quartz ankerite veining	asp - arsenopyrite	f - fault
cv - carbonate veining	pn - pentlandite	fl - flow
qcv - quartz-carbonate vein	ga - galena	fol - foliated
gcb - green carbonate	asb - asbestos	g - gouge
aph - aphanitic	tc - talc	hyl - hyaloclastite
fg - fine grained	sr - sericitization	var - variolitic
mg - medium grained	chl - chloritization	mass - massive
cg - coarse grained	cb - carbonitization	sh - shear
l - local	si - silicification	sp - spinofex
w - weak	ep - epidotization	z - zone
m - moderate	ank - ankerite	sch - schist
s - strong	alb - albite	q - qtz pheno
v - very strong	fu - fuchsite	f - feldspar

6500N

-300

Timmins, ONT.

6A

Battle Mountain Gold

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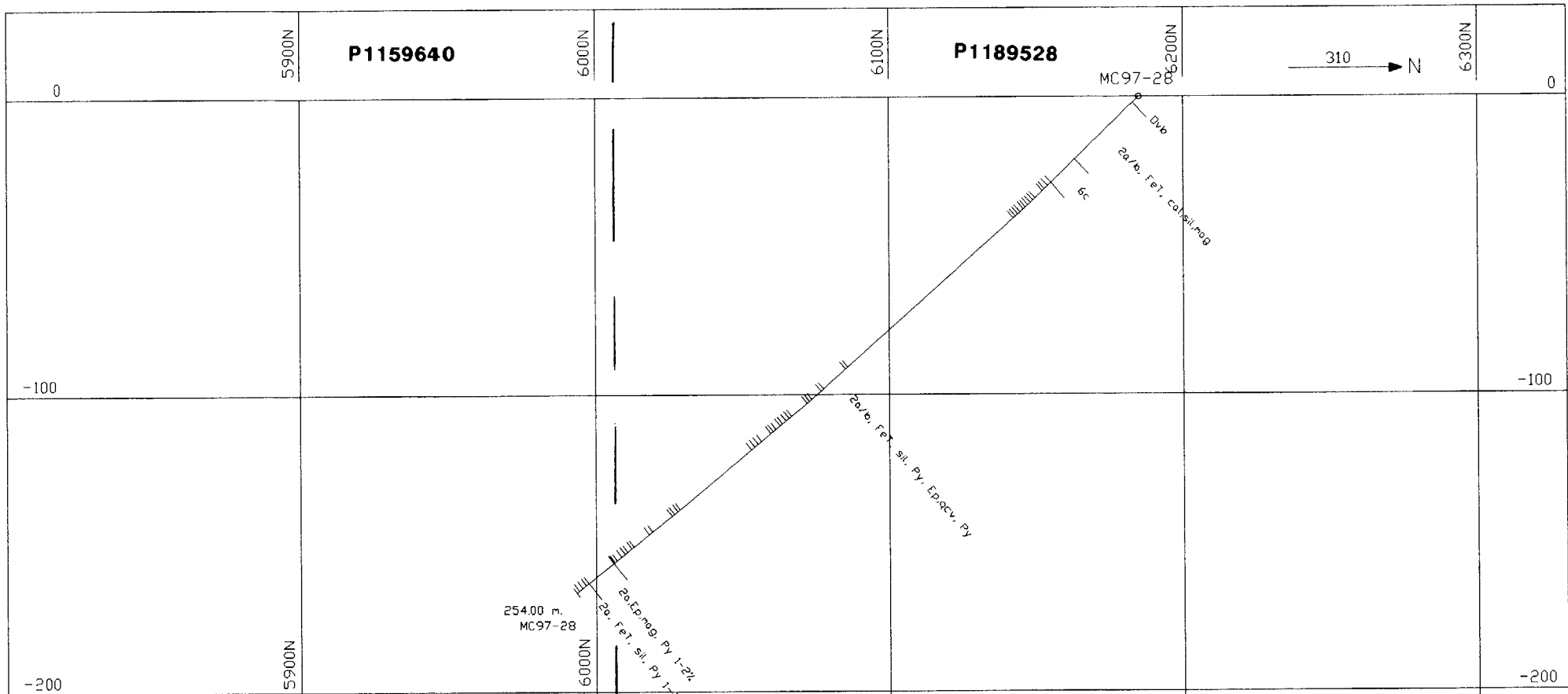
SECTION 6125E

Au >0.25 g/t

Mahoney Creek

Interpreted by :	Scale : 1 : 2000
Drawn by :	NTS number :
Revised :	Project number 507
Date : 12/03/97	File number : S262797

6400N



**LEGEND**

- 7 Felsic to Intermediate Plutonic Rocks**
  - 7 Unsubdivided
  - 7a OFP
  - 7b FP
  - 7c OP
- 6 Mafic to Ultramafic Intrusive Rocks**
  - 6 Unsubdivided
  - 6a Gabbro
  - 6b Diorite
  - 6c Diabase
  - 6d Peridotite
  - 6e Lamprophyre (Alkalic)?
- 2 Mafic Volcanics**
  - 2 Unsubdivided
  - 2a Massive
  - 2b Pillowed
  - 2c Flow Breccia
- 1 Ultramafic Volcanics**
  - 1 Unsubdivided
  - 1a Massive
  - 1b Pillowed
  - 1c Flow Breccia

**MINERALOGY**

- |                               |                            |                     |
|-------------------------------|----------------------------|---------------------|
| VG — visible gold             | mag — magnetic             | srp — serpentine    |
| cp — chalcopyrite             | BK — basaltic komatiite    | gf — graphite       |
| sp — sphalerite               | UK — ultramafic komatiite  | cal — calcite       |
| au — gold                     | PK — peridotitic komatiite | dol — dolomite      |
| ag — silver                   | FeT — Iron Tholeiite       | hrr — hematite      |
| ni — nickel                   | MgT — Magnesium Tholeiite  | lx — leucoxen       |
| cr — chromite                 | CA — calc-alkaline         | qtz — quartz        |
| ml — magnetite                | TR — Transition            | low — tourmaline    |
| mgn — magnesite               | T — Tholeiitic             | am — amygdaloidal   |
| mo — molybdenite              | py — pyrite                | bx — breccia        |
| av — ankerite veining         | pa — pyrrhotite            | ct — contact        |
| aqv — quartz ankerite veining | asp — arsenopyrite         | f — fault           |
| cv — carbonate veining        | pn — pentlandite           | fl — flow           |
| aqv — quartz-carbonate vein   | ga — galena                | fol — foliated      |
| gcb — green carbonate         | osb — asbestos             | g — gouge           |
| aph — aphanitic               | lc — talc                  | hyl — hyaloclastite |
| fg — fine grained             | sr — sericitization        | var — variolitic    |
| mg — medium grained           | chl — chloritization       | mass — massive      |
| cg — coarse grained           | cb — carbonitization       | sh — shear          |
| l — local                     | si — silicification        | sp — spinofex       |
| w — weak                      | ep — epidolization         | z — zone            |
| m — moderate                  | ank — ankerite             | sch — schist        |
| s — strong                    | alb — albite               | q — qtz pheno       |
| v — very strong               | fu — fuchsite              | f — feldspar        |

Timmins.ONT.

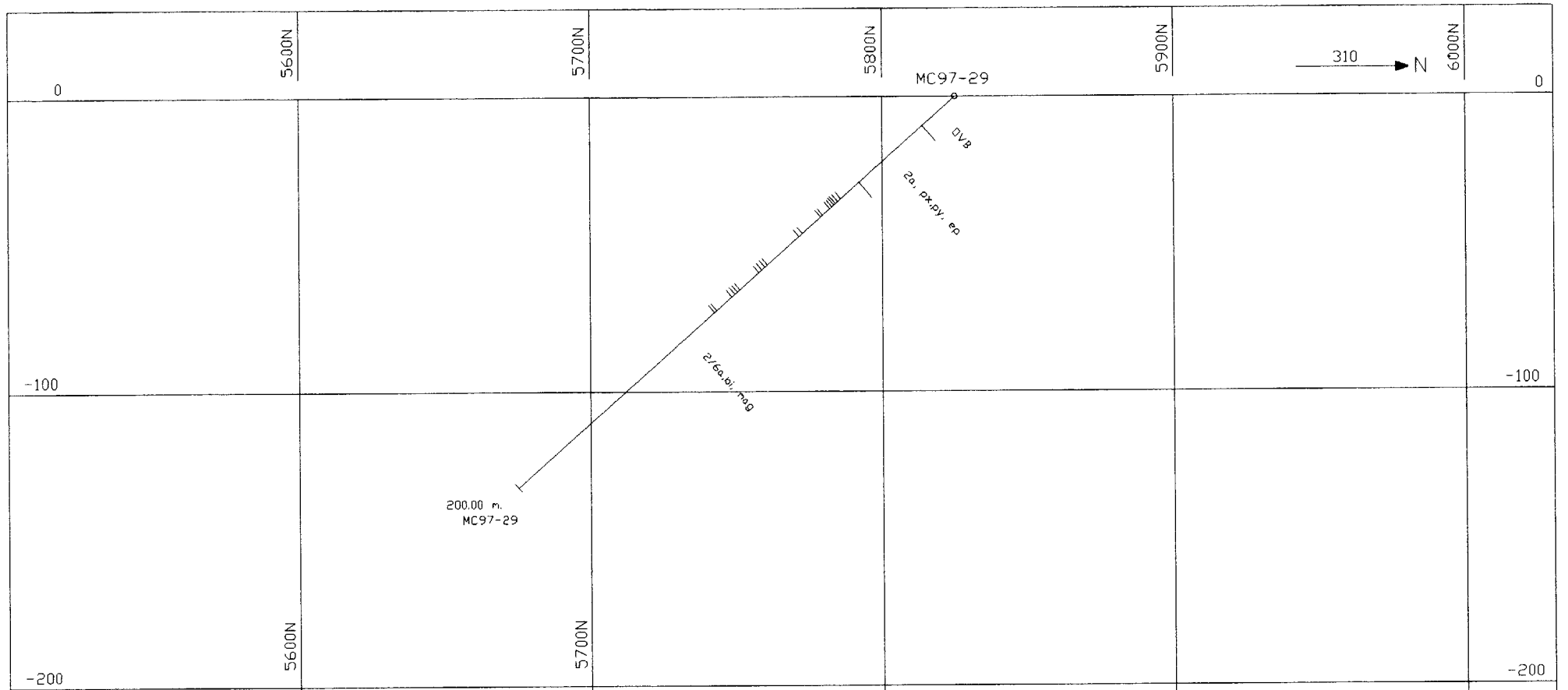
**Battle Mountain Gold**

**SECTION 9125E**

Au >0.25 g/t

**Mahoney Creek**

Interpreted by :	Scale : 1 : 2000
Drawn by :	NTS number :
Revised :	Project number 507
Date : 12/03/97	File number : S2897



LEGEND		MINERALOGY	
<b>7</b> Felsic to Intermediate Plutonic Rocks	VG — visible gold	mag — magnetic	srp — serpentine
<b>7i</b> Unsubdivided	cp — chalcopyrite	BK — basaltic komatiite	gf — graphite
<b>7c</b> QFP	sp — sphalerite	UK — ultramafic komatiite	cal — calcite
<b>7d</b> FP	au — gold	PK — peridotitic komatiite	dol — dolomite
<b>7e</b> QP	ag — silver	FeT — Iron Tholeiite	hm — hematite
<b>6</b> Mafic to Ultramafic Intrusive Rocks	ni — nickel	MgT — Magnesium Tholeiite	lx — leucoxen
<b>6i</b> Unsubdivided	cr — chromite	CA — calc-alkaline	qtz — quartz
<b>6a</b> Gabbro	mt — magnetite	TR — Transition	tow — tourmaline
<b>6b</b> Diorite	mgn — magnesite	T — Tholeiitic	am — amygdales
<b>6c</b> Diabase	mo — molybdenite	py — pyrite	bx — breccia
<b>6d</b> Peridotite	av — ankerite veining	po — pyrrhotite	ct — contact
<b>6e</b> Lamprophyre (Alkalic)?	qav — quartz ankerite veining	asp — arsenopyrite	f — fault
<b>2</b> Mafic Volcanics	cv — carbonate veining	pn — pentlandite	fl — flow
<b>2i</b> Unsubdivided	qcv — quartz-carbonate vein	ga — galena	fol — foliated
<b>2a</b> Massive	gcb — green carbonate	osb — asbestos	g — gouge
<b>2b</b> Pillowed	aph — aphanitic	tc — talc	hyl — hyaloclastite
<b>2c</b> Flow Breccia	fg — fine grained	sr — sericitization	var — variolitic
<b>1</b> Ultramafic Volcanics	mg — medium grained	chl — chloritization	mass — massive
<b>1i</b> Unsubdivided	cg — coarse grained	cb — carbonitization	sh — shear
<b>1a</b> Massive	l — local	si — silicification	sp — spinofex
<b>1b</b> Pillowed	w — weak	ep — epidotization	z — zone
<b>1c</b> Flow Breccia	m — moderate	ank — ankerite	sch — schist
	s — strong	alb — albite	q — qtz pheno
	v — very strong	fu — fuchsite	f — feldspar

6f

6000N

-300

5800N

5900N

Timmins, ONT.

**Battle Mountain Gold**

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**SECTION 8750E**

Au >0.25 g/t

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**Mahoney Creek**

Interpreted by :	Scale : 1 : 2000
Drawn by :	NTS number :
Revised :	Project number 507
Date : 12/03/97	File number : S2997



# Battle Mountain Gold

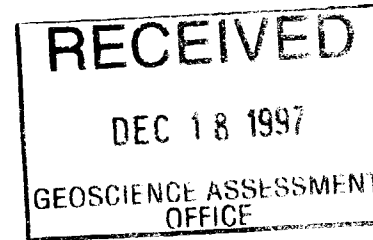
## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
 HOLE No.: MC97-18  
 Collar Eastings: 6375.00  
 Collar Northings: 6425.00  
 Collar Elevation: 0.00  
 Grid: MAIN  
 ;NQ& CORE STORED HEMLO STORAGE TIMMINS

Collar Inclination: -45.00  
 Grid Bearing: 140.00  
 Final Depth: 300.00 metres  
 DRILLED BY: NDS DRILLING, TIMMINS  
 CASING LEFT IN HOLE

*Jim Edwards*  
 Logged by: Jim Edwards R.CALHOUN  
 Date: April 26-30, 97  
 Down-hole Survey: ACID  
 DATES LOGGED: April 27-30, 1997  
 DRILLED ON: P1159634, P998384

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS	
					TO	WIDTH AU g/ton
0	16	(Ovb) <b>Overturden</b>				
16	17	(2a,6a, cg, lx, bio,mod Mag) <b>Recrystallized Mafic Volcanic</b> The unit coarse grained and light grey in colour. It is spotted with leucoxene and biotite blades <1 centimeter in length. The unit is intruded by small 1-5 cm wide felsic intrusive. The unit is weakly to moderately magnetic.				
17	23	(6a, bio, Mag) <b>Mafic Intrusion</b> The unit is medium to coarse grained and dark green to greyish green in colour. The unit becomes coarser grained down section In places it has a birds foot texture. It is moderately magnetic and Possibly a coarse grain which has been recrystallized as the result of the injection of the porphyry of The unit could be interpreted as a coarse grained flow or as an gabbro ?.				
23	28.7	(2a,6a, cg, lx, mod Mag) <b>Mafic Volcanic with FD intruding</b> The unit is medium to coarse grained and dark green to black in colour There are localized areas of the birds foot texture as seen in the above unit. The unit is intruded by carbonate veins that are <1 mm and by small felsic intrusive which infills fractures within the volcanic . The unit is moderately to strongly magnetic.				
28.7	30.5	(7d,wk hem,wk mag,chl) <b>Perth Felsic Porphyry</b> The unit is a coarse grained feldspar porphyry. The unit is pink to reddish in colour the redder areas are a result of hematite staining. The unit displays a perthitic texture with feldspar crystals averaging				



2.13006f

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
HOLE No.: MC97-18

Page 2

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS		
					TO	WIDTH AU g/ton	
		1cm wide in length. The feldspars are lath shaped to sub-hedral to euhedral. There is good zonations within the individual feldspars displaying an exsolution halo. The upper contact of this unit is at 30 degrees to the core axis					
30.5	35	(2a,mg,T,Ep,Ch,Carb) <b>Mafic Volcanic Intruded with Felsic Intrusive</b> The unit is similar to the above mafics. The unit is fine to medium grained. The unit is black in colour and becomes finer grained down section. There is contorted and convoluted carbonate veining up to 5 mm wide At 30.7 there small zone of pyrite up to 3% around a small 2 centimeter quartz vein. At 35.5 there is a khaki colour zone 15 centimeters wide where pyrite occurs as blebs and clusters around a hematized quartz carbonate vein. With in this zone there appears to be garnets . The unit is weakly magnetic. Locally the unit has a greyish blue sheen which could be attributed to moderate silicification. The unit is intrude by the a porphyry along fractures these felsic intrusions variable in size and characterized by Mega crystic to fine grained granitic looking intrusions and can be up to 60 centimeters in size. On average they are 5 10 centimeters in width. Epidote occurs along fractures in the rock.					
37.1	44.7	(7d hem, Py 2%) <b>Perth Felsic Porphyry</b> The unit is variable in colour ranging from a granitic pink to reddish to greyish blue almost diorite looking. Note the shape of the feldspars are sub rounded to sub hedral in shape. 37.6 to 38.2 There are large lath sulphides that are well zoned and closely packed. The feldspars are .5 - 1.5 centimeters long and .1 - .8 cm wide. In some areas the unit looks granitic with a few mafic intrusions. There are faint quartz veining where the unit is a greyish colour due to silicification Pyrite mineralization is variable and is clustered to finely disseminated. The interval between 44-44.7 the pyrite is finely disseminated near the contacts of	1221 1222 1314 1223 1224 1225	35.00 36.50 38.10 39.60 41.10 42.60	36.50 38.10 39.60 41.10 42.60 43.60	1.50 1.60 1.50 1.50 1.50 1.00	0.31 1.70 0.02 0.25 0.08 0.02

HOLE No: MC97-18

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
HOLE No.: MC97-18

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS			
					TO	WIDTH	AU g/ton	
		the porphyry mafic volcanic.. There are spotty chlorite nodules which are round and <1 mm in diameter and make up 3% of the rock by volume.						
44.7	69.7	(2a,Ep,Carb,Wk loc mod Sil,loc Py 1-3%, Mod Magnetic)	1226	43.60	44.80	1.20	0.02	
		<b>Magnetic Mafic Volcanic</b>	1227	62.90	63.90	1.00	0.03	
		The unit is dark grey to black in colour and fine grained. Again the unit is heavily veined with carbonate veins consisting mostly of calcite. Which are .2 1 mm wide. There are also inter-fingering fractures of felsic porphyry. At 63.5 - 63.7 There is an area of Epidote patches with a khaki colour. There is 2-4% pyrite and a smoky quartz vein that is 2 centimeters wide with in this .7 meter interval.						
69.7	101.7	(7d, hem, Loc Sil. Loc Py 2%)	1228	71.40	72.70	1.30	0.02	
		<b>Hematized Feldspar Porphyry</b>	1229	72.70	74.00	1.30	0.07	
		The above mafic I intruded by finer grained equivalent to the over units. The feldspars are smaller and the unit is more greyish in colour with a sometimes brick red hue due to hematite stain. The unit is weakly magnetic due to spotty chlorite. The feldspars are more rounded than in the above units. There are inclusions of the mafic volcanics which are 3-6 centimeters wide. The inclusions sub angular. There is a small;; interval of 50 centimeters at 93.5 - 94 meters where the porphyry is mega crystic in appearance. The contact between this unit and the lower mafic volcanic unit is characterized by 2% pyrite and intense silicification giving the unit a greyish blue sheen.	1230	84.60	85.80	1.20	0.10	
			1315	99.40	100.60	1.20	0.02	
			1231	100.60	101.60	1.00	0.78	
101.7	118.9	(2a,Ep,Carb,Mod Magnetic )	1232	101.60	102.60	1.00	0.19	
		<b>Magnetic Mafic Volcanic</b>	1316	102.60	103.30	0.70	0.17	
		The unit is fine grained and black with a purplish hue locally. The unit has patches of epidote which are 3-10 centimeters that fade in and out the unit . The Epidote alteration trends to increase down section. At 115. - 116 Epidotization and Sericite alteration gives this interval a light green to pale yellowish colour. This small zone has well developed quartz veins that are less than .2mm in diameter. Along the total length of this unit it is	1317	103.30	104.00	0.70	0.53	
			1233	104.00	105.00	1.00	0.51	
			1318	105.00	106.00	1.00	0.02	
			1319	106.00	106.90	0.90	0.02	
			1320	106.90	108.50	1.60	0.02	
			1321	108.50	110.00	1.50	0.03	

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# Battle Mountain Gold

## DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS		WIDTH AU g/ton	
				FROM	TO		
		<p>intruded by the feldspar porphyry . It seems that there are two generations or two different types of injections of the porphyry in to the mafic volcanics. The one is where you have large zoned feldspars and is mega crystic. The feldspars had time to grow and therefore the cooling must have been slower. The second pulse or injection is a finer grained equivalent of the above with more chlorite associated with it than the above and cooled much more quickly The unit is almost granitic looking.</p> <p>At 106.3 to 110.0 the feldspar porphyry with mafic inclusions. The unit is more greyish looking (due to silicification). The volcanic inclusions are magnetic and the porphyry intrusions are locally magnetic. At 110 the mafic volcanic is intensely veined with carbonate veins which are mostly calcite and moderately silicified.</p>					
118.9	126.7	<p>(7d, mod Sill)  <b>Feldspar Porphyry</b>                      This small felsic intrusion intrude the mafic volcanics. The feldspars are much small and rounded to sub-hedral. They are well zoned. The unit is fine grained and greyish in colour due to silicification overprinting. Pyrite is finely disseminated though out the unit and is cubic. The unit also has mafic inclusions which are 3-7 centimeters wide.</p>	1234	122.00	123.00	1.00	0.02
126.7	137.2	<p>(2a, Ep, , Carb, Chl)  <b>Mafic Volcanic</b>                      The unit is magnetic and fine to medium grained. It is black in colour with a pale green hue due to epidote alteration. With in this unit cross cutting relationships are evident. They indicate that the Mafic Volcanic has under gone Epidotization. Then the porphyry intruded The volcanic and chlorite infilled micro fracture and finally carbonate micro fracture and carbonate banding occurred. There is a small altered zone at 28.8 - 28.95 where a small quartz 3 centimeters wide is present. This 15 centimeter zone is intensely silicified and locally there is 4% finely disseminated pyrite which has a</p>	1235 1236	128.60 131.00	129.60 132.00	1.00 1.00	0.02 0.18

HOLE No: MC97-18

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS			
				FROM	TO	WIDTH AU g/ton	
		cubic habit. . A similar alteration exists at 31.5 - 31.5. Within the quartz vein there is a few flecks of galena. Pyrite is 5% locally in this area.					
137.2	144.9	(7d,Py 1-2 %) <b>Feldspar Porphyry</b> The unit is a fine grained porphyry and diorite looking due to a greyish silicified overprinting. Within the unit are 3-6 centimeter inclusions of mafic volcanics	1237 1238 1322 1323 1324 1325	137.20 138.20 139.20 140.70 141.90 143.30	138.20 139.20 140.70 141.90 143.30 144.90	1.00 1.00 1.50 1.20 1.40 1.60	0.19 0.90 0.10 0.02 0.03 0.05
144.9	151.4	(2a,Ep,Carb,Py <1%) <b>Mafic Volcanic</b> The unit is weakly magnetic and fine to medium grained with carbonate veining less than 1 mm and some minor carbonate bands up to 5cm wide. The unit is massive. In general the unit compose of mostly mafic volcanics which are greyish to pale green in colour which have been intruded by feldspar porphyry of different affinities of the Perth lake porphyry. The porphyry varies considerable in colour and texture from brick red due to hematization to granitic pink and medium grained to quartz diorite looking which is greyish white due to overprinting of silicification. Some of the feldspar porphyry is mega crystic to medium grained. The above mafic volcanics has epidote patches.	1326 1239	144.90 150.10	146.00 151.10	1.10 1.00	0.03 0.03
151.4	153.5	(7d,mod hematization, Chl, Py 1%) <b>Hematized Feldspar Porphyry</b> The unit is medium grained and brick red in colour. The unit has micro fractures of chlorite running through it.	1240 1241	151.10 152.00	152.00 153.50	0.90 1.50	0.04 0.30
153.5	169.4	(2a,Ep, Carb wk Sil) <b>Mafic Volcanic</b> The unit is similar to the above with feldspar porphyries intruding fractures from mm to decimeter scale. There is weak silicification and the unit is pale green with a greyish overcast due to silicification. The only mineralization present occurs within a small 2 cm smoky quartz vein <2% pyrite at 163.5.	1242 1243 1244 1245	153.50 155.50 165.50 167.00	154.00 156.50 167.00 168.00	0.50 1.00 1.50 1.00	0.07 0.05 0.02 0.02

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# Battle Mountain Gold

## DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS			
				FROM	TO	WIDTH AU g/ton	
169.4	171	(7d,Chl) <b>Feldspar Porphyry</b> The unit is fine grained and has that granitic pink colour to it. Within this unit there is <2% finely disseminated sulphides. The upper and lower contacts of this unit are coarser grained suggesting that the margins had a longer time to cool and recrystallized.					
171	179.4	(2a,Ep,Carb, mod Sil, Py 3%) <b>Mafic Volcanic</b> This unit is fine grained the ground mass is black in colour and there is a pale green alteration halo of Epidote making the ground mass. The unit is very hard. Note the intensely silicified zone at 173-177.5 2-3% pyrite. At 173.5 177.5 the unit has quartz carbonate veins and smoky quartz veins <2 cm wide associated with pyrite.	1246	173.70	174.70	1.00	0.02
			1247	174.70	176.20	1.50	0.02
			1248	176.20	177.20	1.00	0.02
			1249	177.20	178.20	1.00	0.02
			1250	178.20	179.20	1.00	0.02
179.4	181.2	(7d,Sil,Chl) <b>Feldspar Porphyry</b> The unit is a fine grained with a greyish overcast appearance. The unit looks like a quartz diorite but The Feldspars are visible. The unit also has spotty chlorite which make up <2% of the unit per volume. This unit does not have any mafic inclusions with in it.	1251	179.20	180.70	1.50	0.02
181.2	185.4	(2a,Ep, Carb) <b>Mafic Volcanic</b> This unit is similar to the above mafic units. It is fine grained and pale green colour due to epidote patches though out the unit.	1252	180.70	181.70	1.00	0.02
			1253	181.70	182.70	1.00	0.02
185.4	187.8	(7d,Py 3%.Sil) <b>Feldspar Porphyry</b> The unit starts out as a coarse grained 7d, with 1cm lath shaped feldspars and is a light pink colour. The unit progrades into a greyish unit with quartz veins 2-3 centimeters wide that are 52 degrees to the core axis. The majority of the pyrite mineralization is associated with these quartz veins as clustered to	1254	185.80	186.80	1.00	0.02
			1255	186.80	187.80	1.00	0.03

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# Battle Mountain Gold

## DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS			
				FROM	TO	WIDTH AU g/ton	
		blebby pyrite with a cubic habit. Galena is also present in a minor amount <1%. The pyrite is also finely disseminated though out the unit. Again the unit has that greyish appearance that is a result of a silicification overcasting the unit.					
187.8	211.6	(2A, Ep, Carb, qcv, loc bx) <b>Mafic Volcanic Possibly Pillowed</b> The unit is fine to medium grained and a pale green to greyish colour. Epidote is moderately pervasive though out the unit. There are area were There are intense Epidote patchy zones that give the unit a pale green colour masking the groundmass. Epidote also occurs along fractures from a micro to centimeter scale.. The unit moderately carbonate veined and is a weak but pervasive component of the groundmass. There are some carbonate bands and small 3- 5 centimeter intrusions of feldspar porphyry and also infilled fractures. Note the small brecciated zone between 209 - 209.2. This plus some chlorite bands in the unit may indicate the unit is pillowed.					
211.6	213.3	(2a, Mag, Hem, Qcv, Py 3%) <b>Magnetic Mafic Volcanic</b> The unit is black and fine grained. It is magnetic and the is 3% pyrite with in the unit at is associated with the quartz carbonate veining which is vuggy. Pyrite is also along micro fractures with in the unit. Epidote is a minor component of this unit.	1256	211.00	212.00	1.00	0.02
			1257	212.00	213.10	1.10	0.02
213.3	240.5	(2a, Ep, Carb, loc Sil) <b>Mafic Volcanic</b> The unit is a pale green and fine to medium grained. There are areas of patchy epidote alteration and at times is pervasive. At 224.9 there is some finely disseminate pyrite along the edge of a small felsic intrusion. At 234.5 - 234.7 the core is black in colour and the pyrite is blebby and cubic in nature. With in this small 20 centimeter zone the core is magnetic due to magnetite.	1258	223.40	224.40	1.00	0.03
			1260	224.40	225.40	1.00	0.02
			1259	225.40	226.40	1.00	0.02
			1261	231.30	232.30	1.00	0.09
240.5	241.2	(7d, hem, Loc Sil)	1262	240.20	241.20	1.00	0.02

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# Battle Mountain Gold

## DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS			
				FROM	TO	WIDTH AU g/ton	
		<b>Feldspar Porphyry</b> Same as above porphyry unit.					
241.2	246.6	(2a, Ep, Wk Mag) <b>Weakly Magnetic Mafic Volcanic</b> The unit is very blocky and the IP anomaly may be the result a small pyritic zone with in a quartz carbonate vein and along carbonate bands at . The unit is blocky, fine to medium grained and pale green in colour	1263	242.00	243.00	1.00	0.02
246.6	247.5	(7d, hem, Sil) <b>Feldspar Porphyry</b> The unit has that syenite reddish colour with a grayish overcast over the unit due to silicification. The unit is fine to medium grained and the feldspars are lath shaped and <.25 mm in width.	1264	246.20	247.10	0.90	0.02
247.5	256.5	(2a, Ep, mod sil) <b>Mafic Volcanic</b>  The unit is fine grained and pale green to medium green in colour. There is a 30 cm wide zone of 2-3% clustered and disseminated pyrite associated with a 4 cm wide quartz carbonate veins at 253.9 meters. At 254.5 there is a small felsic intrusion of porphyry that has 2% pyrite which is finely disseminated along the contacts between it and the mafics that it intrudes.	1265 1266 1267 1268	247.10 247.90 251.00 255.00	247.90 249.00 0.09 256.00	0.80 1.10 1.00 1.00	0.02 0.02 0.02 0.02
256.5	274.1	(7d, Sil, Py 1%) <b>Feldspar Porphyry.</b> The unit is medium grey in colour and similar to the porphyry that was intersected in MC96-12. The unit has feldspar laths that are well zoned and less than 1 mm in length and sub - hedral to sub rounded and make up 35% of the units volume. The unit has a reddish hue from between 266 to 269 possibly due to hematite staining. Between 269 and 274 the is disseminated coarse grained pyrite cubes which are .5 cm cubes.	1269 1270 1271 1272 1273 1274 1275	256.00 257.50 263.00 264.00 265.50 267.00 268.50	257.50 259.00 264.00 265.50 267.00 268.50 269.50	1.50 1.50 1.00 1.50 1.50 1.50 1.00	0.02 0.05 0.02 0.02 0.02 0.02 0.03
274.1	284.5	(2a, Epidotization, mod hem, mod sil Py 2%)	1276	274.00	275.00	1.00	0.02

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# Battle Mountain Gold

## DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS		
				FROM	TO	WIDTH AU g/ton
		<b>Dense Mafic Volcanic</b>	1277	275.00	276.00	1.00 0.02
		The unit is a pale green to medium green colour	1278	276.00	277.00	1.00 0.02
		with some minor areas with a dark grey colour.	1279	277.00	278.00	1.00 0.02
		There is a noticeable change in the density of this	1280	278.00	279.00	1.00 0.02
		unit than the above mafic units especially between	1281	279.00	280.50	1.50 0.02
		274.1-284.4. There is small zones of mineralization	1282	280.50	281.60	1.10 0.02
		between the following intervals from 276.5 - 277	1283	281.60	282.60	1.00 0.02
		There is fine grained pyrite 3% which is associated	1284	282.60	283.60	1.00 0.02
		with quartz carbonate veins and small <5cm				
		injections of felsic porphyry. At 281.5 - 282 there is				
		a zone of coarse pyrite which is clustered and again				
		is associated with quartz carbonate veins. There is				
		2 - 3% pyrite with in this interval				
284.5	286.4	(7d)	1285	283.60	284.60	1.00 0.02
		<b>Small Dyke of Perth Lake Porphyry</b>				
		Small 1.9 metre injection of the Perth lake porphyry.				
		It is medium grained and similar to the above				
		descriptions of this unit				
286.4	294	(2a, Ep, mod hem, mod sil)	1286	286.50	287.60	1.10 0.02
		(Dense Mafic Volcanic	1287	287.60	288.50	0.90 0.02
		The unit is similar to the above mafic	1288	288.50	289.50	1.00 0.02
			1289	289.50	290.50	1.00 0.02
			1290	290.50	291.50	1.00 0.02
			1291	291.50	292.50	1.00 0.02
			1292	292.50	293.50	1.00 0.02
294	298.5	(7d)	1293	293.50	294.50	1.00 0.02
		<b>Feldspar Porphyry</b>	1294	294.50	295.50	1.00 0.02
		Same as Above	1295	295.50	296.50	1.00 0.02
298.5	300	(2a, Ep, mod hematization.)				
		This small section is much blockier than the above				
		with <1% pyrite mineralization				
300		End Of Hole				

HOLE No: MC97-18

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
 HOLE No.: MC97-18

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS TO	WIDTH AU g/ton
------	----	--------------------------	------------	------	--------------	----------------

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
100.00	-43.50	140.00
200.00	-43.00	140.00
300.00	-42.50	140.00

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)

HOLE No.: MC97-19

Collar Eastings: 6750.00

Collar Northings: 6560.00

Collar Elevation: 0.00

Grid: MAIN

NQ CORE STORED AT BATTLE MOUNTAIN, TIMMINS

Collar Inclination: -45.00

Grid Bearing: 140.00

Final Depth: 300.00 metres

DRILLED BY: NDS DRILLING, TIMMINS

CASING LEFT IN HOLE



Logged by: Jim Edwards, R Calhoun

Date: April 30 - May 6, 1997

Down-hole Survey: ACID

DATES LOGGED: April 30 - May 6, 1997

DRILLED ON: P1159633, P1159634

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS		
					TO	WIDTH AU g/ton	
0	11.1	(Ovb) <b>Overburden</b>					
11.1	58.8	(1a, Loc Spx, tc, Chl, Py 1% ) <b>Magnetic Ultramafic</b> The unit is a dark grey to black in colour. In some areas there is a blue overprint present. The unit is fine to medium grained and the entire unit is weakly to moderately magnetic. Fractures of talc chlorite and calcite veins are from .1 mm to .5 mm in width. Other fractures of chlorite and carbonate have a diffuse rim of alteration. This is most evident between 26.4 - 27.4 metres and 41.6 - 42.3 metres. The core also has a blue overprint to it. This is the only interval where cubic pyrite is disseminated 1 - 2%. Note that the altered interval is non magnetic. A Spinifex textured flow is present between 34.8 - 35.2 metres and 54.0 - 54.6 metres. The blades are .5 mm .8 mm long. At 35.6 - 37 there is some concentric fracturing present which appears to be poly- suturing. The mineralization consists of coarse blebby disseminated cubic pyrite 2-5 mm which occurs in intervals from .2 - .8 metres wide. Generally the alteration is very weak and near the contact increases along the contacts of mafic dykes which intrude the Ultramafic flow. At 56 metres the alteration is evident and pyrite is along Quartz carbonate veins pyrite with in this interval is 2 - 3%. Note this interval also non magnetic. The lower contact with the mafic dyke is 62 degrees to the core axis.	1296	26.40	27.40	1.00	0.02
			1297	27.40	28.90	1.50	0.02
			1298	41.50	42.50	1.00	0.02
			1299	54.40	55.90	1.50	0.04
			1300	55.90	56.90	1.00	0.02
			1301	56.90	57.80	0.90	0.02
			1302	57.80	58.80	1.00	0.02
57.8	59.5	(2a, 6a fg, Ep, chl, Qcv Py 2- 3%) <b>Mafic Dyke</b> The unit is a medium green and fine to medium grained. The contact between this unit and the above unit is characterized by and increase in					

4 1 3 0 0 6f

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS		
					TO	WIDTH AU g/ton	
		quartz carbonate veining and carbonate bands. Which persist though out the mafic unit and pyrite is associated along the edges of qcv veins.					
59.5	63.2	(1a, tc&sch, loc w altered, Py 3-4%) <b>Locally Weakly Altered Ultramafic</b> The unit is similar to the above Ultramafic unit. It is greyish to black in colour and fine to medium grained. In the weakly altered sections there is a bluish overcast. The mineralization consists of disseminated cubic pyrite.	1303 1304	58.80 59.80	59.80 60.80	1.00 1.00	0.02 0.02
63.2	65.9	(2a, 6a fg, Ep,chl,Qcv Py 1 -2%) <b>Mafic Dyke</b> The unit is medium grained and medium green in colour. The pyrite is concentrated along the edges of quartz carbonate veins.	1305	63.30	64.80	1.50	0.02
65.9	113.2	(1a, Loc Spx, tc, Chl, Py 1%) <b>Ultramafic Flow</b> The unit is a dark grey to black in colour. In some areas there is a blue overprint present. The unit is fine to medium grained and the entire unit is moderately magnetic. Fractures of talc chlorite and calcite veins are from .1 mm to .5 mm in width The unit is massive looking and there I some variation in the grain size in some areas there are small grains of carbonate which are round and less than .2 mm in diameter.	1306 1309	64.80 73.00	66.30 74.00	1.50 1.00	0.02 0.02
113.2	115.5	(2a, 6a fg, Ep,chl,Qcv Py 1 -2%) <b>Mafic Dyke</b> The unit is medium green in colour and there medium grained. There are a few small fracture of talc N chlorite which abut up to the upper and lower contacts of this unit and disappear. This cross-cutting relationship indicate that the Ultramafic was fractured with talc&schlorite and then intruded by this mafic dyke. The unit has about 3% quartz carbonate veining with in it which is more than seen in any of the other units.					
115.5	145.8	(1a, tc&sch, Py< 1%)	1307	114.20	115.70	1.50	0.02

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# Battle Mountain Gold

## DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS		
				FROM	TO	WIDTH AU g/ton
		<p><b>Ultramafic Flow</b> The quartz carbonate veining from the above unit persists to 123 meters. The unit is similar in texture and colour to the above units. There are small intervals less than .5 metres wide of coarser grained material which appears to intrude the unit.</p>	1308	118.50	120.00	1.50 0.02
145.8	153.5	<p>(2a, 6a fg, Ep,chl,Qcv Py) <b>Mafic Dyke</b> Same as the other mafic dykes The unit is medium grained with a medium green colour. The unit is the void of any mineralization.</p>				
153.5	182	<p>(1a, tcSch, Py &lt; 1%) <b>Ultramafic Flow</b> The unit is similar to the above units There are small intervals less than .5 metres wide of coarser grained material which appears to intrude the unit. The lower portion of the unit has a mottled appearance with a bluish overcast. Note the small 8 centimeter fracture which is with a felsic intrusive and is silicified.</p>	1310	165.00	166.00	1.00 0.02
182	186	<p>(1BK,tc/chl Carb, Py &lt;1%) (Possibly Basaltic Komatiite) The unit is medium grained and is the only place that carbonate is a component of the matrix. The unit has a mottled or spotty appearance the unit has quartz carbonate veins which are &lt;2 cm wide.</p>	1311 1312	182.00 184.50	183.00 185.50	1.00 0.02 1.00 0.02
186	216.8	<p>(1a, tcSch, Py &lt; 1%) <b>Ultramafic Flow</b> Same as the Above. Massive dark grey to black massive magnetic Ultramafic flows.</p>	1313	185.50	187.00	1.50 0.02
216.8	217.4	<p>(2a, 6a fg, Ep,chl,Qcv Py) <b>Mafic Dyke</b> Small mafic dyke which is dark green in colour and has more chlorite stringers running sub - parallel to the core axis than the other mafic dyke up section.</p>				
217.4	221.3	<p>(1a, tcSch, Py &lt; 1%) <b>Ultramafic Flow</b></p>				

HOLE No: MC97-19

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
 HOLE No.: MC97-19

Page 4

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	ASSAYS	WIDTH AU g/ton
		Same as the Above. Massive dark grey to black massive magnetic Ultramafic flows.					
221.3	238.7	(2a, 6a fg, Ep,chl,Sil ) (Silicified Mafic Dyke The unit is fine grained and medium green in colour. The unit has a series of small talc chlorite fracture running sub - parallel to the core axis. The core is polished looking and has a shinny sheen to it from 232.7 - 238.7 there is a well preserved chill margin present.					
238.7	300	(1a, toNch, Py< 1% Asp <1%) <b>Ultramafic Flow</b> Same as the Above. Massive dark grey to black massive and moderately to strongly magnetic. The core is fine to medium grained with .5 - 2 cm carbonate (calcite veins) running at 58 degrees to the core axis. At 259.9 to 262.5 metres the core is intensely fractured and infilled with carbonate and pinkish calcite. The carbonate veins are anastomosing with trace arsenopyrite <1% and up to 2% pyrite between 259 - 262.5. The arsenopyrite has a needle like habit at 261.5 metres. There is a greenish overcast to the core from 259.9 to 261.5. and from 276.8 - 282.3 This greenish alteration is harder than chlorite and could possible be epidote. It is a medium dull looking green. The sulphides are concentrated within the carbonate veining and along its edges. Again down section the core is moderately magnetic.	1327 1328	260.00 261.00	261.00 262.00	1.00 1.00	0.02 0.02
300		END OF HOLE					

### DOWN-HOLE SURVEY DATA

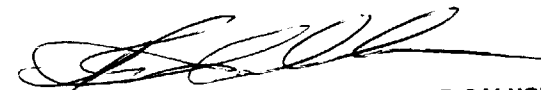
DEPTH	INCLINATION	BEARING
100.00	-44.00	140.00
200.00	-44.00	140.00
300.00	-43.00	140.00

Battle Mountain Canada Ltd.

DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
 HOLE No.: MC97-20  
 Collar Eastings: 6750.00  
 Collar Northings: 6740.00  
 Collar Elevation: 0.00  
 Grid: MAIN  
 NQ CORE STORED AT BATTLE MOUNTAIN, TIMMINS

Collar Inclination: -45.00  
 Grid Bearing: 140.00  
 Final Depth: 200.00 metres  
 DRILLED BY: NDS DRILLING, TIMMINS  
 CASING LEFT IN HOLE



Logged by: Jim Edwards R CALHOUN  
 Date: May 7 - May 8, 1997  
 Down-hole Survey: ACID  
 DATES LOGGED: May 7 - May 8, 1997  
 DRILLED ON: P1159633

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS		
				FROM	TO	Au g/t
0.00	33.00	(Ovb) <b>Overburden</b>				
33.00	34.80	(1a, BK, wk alt'd, fol, loc tc/ch) <b>Weakly Altered Basaltic Komatiite</b> The unit has a mottled appearance and is medium grained. The colour is variable but is typically light grey with a greenish hue. There are bullish quartz veins present that are parallel to the foliation which is 48 - 52 degrees to the core axis. The unit is very soft and platy. The lower contact is at 34.85 and is 60 degrees to the core axis. The margin has been chilled and is fine grained for .5 meters				
34.80	36.20	( 2a, lx, Py 2%, wk Sil) <b>Silicified Mafic Volcanic</b> The unit is fine to medium grained and dark grey with a greenish hue and bullish looking sub - parallel to the core axis. The unit is hard and massive. The pyrite occurs as cubes and is disseminated through out the unit	1329	34.80	36.20	1.40 0.29
36.20	38.45	(1a, Bk, wk alt'd, fol, spx, 2% qcv, gcb) <b>Weakly Altered Basaltic Komatiite</b> The unit is greyish green in colour and well foliated 56 - 60 degrees to the core axis. The unit is very soft and quartz carbonate veins are stretched out along the foliation. There is a weak crenulation cleavage within the qcv's. There is a nice Spinifex texture at 38 - 38.1 which are feather like at 38.45. The unit becomes intensely silicified and greyish in colour.	1497	36.20	37.50	1.30 0.11
38.45	40.80	(2a, Sil, qtz, Py 4-5%, Chl ) <b>Chloritic Mafic Volcanic</b> The unit starts off light grey in colour and the unit is quartz veined and pyritic 4 - 5% near the upper contact. The alteration is consistent through out the	1498 1330	37.50 38.50	38.50 39.50	1.00 0.02 1.00 5.91

602000 6f

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
HOLE No.: MC97-20

Page 2

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS TO	WIDTH	Au g/ton
		unit but the pyrite fizzles out and the unit takes on a more greenish looking hue at 39.45 metres.					
40.80	41.70	(1a,BK, fol, tc/ch,gcb) <b>Basaltic Komatiite</b> This unit is similar to the above 1a, Basaltic Komatiite it is more bleached looking than the above Ultramafics and progrades into mafic volcanics.	1331	39.50	40.90	1.40	0.11
41.70	43.60	(2a, lx, chl, 2% Qcv, Py 1%) <b>Mafic Volcanic</b> The unit is dark grey in colour with a green hue and a mottled appearance. In unit is fine to medium grained and in areas where the unit is medium grained the colour of it is medium green.	1332 1333	40.90 41.90	41.90 42.90	1.00 1.00	0.06 0.04
43.60	45.70	(1BK,tc/ch,spx qcv, fol) <b>Basaltic Komatiite</b> The unit is similar to the above Basaltic Komatiites. It is very soft and greasy. The unit had a well developed Spinifex texture which is now very faint due to intense tc/ch alteration. The unit is also					
45.70	47.00	(2a,lx, py 1%) <b>Mafic Volcanic</b> The unit is greyish black in colour and similar to the above mafic units. These mafic units are separated from the Ultramafic units using the two criteria these magnetics and Hardness. The ultramafics are weakly to moderately magnetic and the mafics are non magnetic. The mafic units are generally hard than the Ultramafic units and finally Basaltic Komatiite unit have been separated from ultramafic units on the basis of grain size. The Basaltic Komatiites are grainy and are generally medium grained. While the Ultramafics are finer grained and platter in appearance	1334	45.50	46.40	0.90	0.05
47.00	52.70	(2a, Sil, 2% qcv, Py 1%)	1335 1336	46.40 51.60	47.60 52.40	1.20 0.80	0.02 0.02
52.70	54.00	(1a,Bk,tc/ch, loc Bx, spx, Py 1%)	1337	52.40	54.00	1.60	0.02

HOLE No: MC97-20



# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
HOLE No.: MC97-20

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS		WIDTH Au g/ton
					TO		
54.00	59.60	<p><b>Basaltic Komatiite , locally Brecciated</b> The unit is greyish blue in colour. The unit is fine grained and Spinifex blades are elongated and stretched out along the foliation which is 58 degrees to the core axis (1a, BK, 3% qcv, wk Sil, Py 1%)</p>	1338	54.00	55.50	1.50	0.02
59.60	65.60	<p><b>Weakly Silicified Basaltic Komatiite</b> The unit is medium grained and dark grey to black in colour. The quartz carbonate veins have a well developed crenulation cleavage which is sub - parallel to the core axis. (1a, BK,3% qcv, Spx str Mag) (Basaltic Komatiite The unit is fine to medium grained. The colour of the unit is dark grey with a bluish hue to it. The unit is soft and greasy. The quartz carbonate veins are sub - parallel to the core axis and are pinkish in colour. These veins have a well developed crenulation cleavage. The lower contact is crushed and possibly faulted</p>					
65.60	70.50	<p>(2a,T, Chl,wk Sil, 5% qcv, Py 1% ) <b>Silicified and Chloritic Mafic Volcanic</b> There are a few small interflows of tcñch. The unit is dark grey to greenish in colour and down section the unit becomes more dark grey to black in colour as a result of intense chlorite alteration. The lower contact is 64 degrees to the core axis</p>					
70.50	95.40	<p>(1a, Tc/ch,Poly,Loc Bx, ) <b>Ultramafic Flow</b> The unit is like a tcñch mud it is brecciated in areas. The upper portion of the unit is polysutured. Here the unit intensely fractured. These fractures are in field with talc and sometimes coarse grained pyrite. The unit becomes like a tcñch mud which is brecciated at 84.95 metres. There are fragments of more consolidated Ultramafic material from sub rounded to round clasts The unit is very platy due to the talc chlorite.</p>					
95.40	104.70	<p>(2a, Chl, 4% qcv, 2-3% Py) <b>Chloritic Mafic Volcanic</b></p>	1339 1340	98.40 99.40	99.40 100.40	1.00 1.00	0.05 0.02

HOLE No: MC97-20

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
 HOLE No.: MC97-20

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS		
				FROM	TO	WIDTH Au g/ton
		The unit is fine to medium grained. The unit is greyish green in colour and extremely chloritic. There is disseminated pyrite through out the unit and The pyrite is more concentrated along the quartz carbonate veining. The veins have a weak crenulation cleavage and are 1 - 3 centimetres wide.				
104.70	110.60	(1a, tc/ch, py 1%, 5% qcv) <b>Ultramafic Flow</b> The unit is a Ultramafic flow with wispy talc chlorite fractures and a crenulation cleavage which is 47 degrees to the core axis. The unit is intensely polysutured. In areas the talc chlorite fractures are anastomosing. The unit is soft and greasy and there is some pyrite cubes which have developed in these fractures.	1341	106.70	107.70	1.00 0.04
110.60	112.20	(2a, Qcv, Chl, 2% Py) (Mafic Volcanic) The unit is fine grained and quartz carbonate veined. The colour of the unit is greyish with a brownish hue.	1342	111.20	112.20	1.00 0.03
112.20	138.20	(1a, tc/Ch, Poly, Loc Bx, Py 1%, Mag) <b>Ultramafic Flow</b> The entire unit is moderately to strongly magnetic. The unit is dark grey with a bluish hue. Quartz carbonate veining is intense and fractures are infilled with talc. In some area the core like a crumbly mud in which pyrite cubes have formed. The unit consists of 1 -2% pyrite locally. There is a 3 metre interval there is 2% pyrite from 125 - 128 metres. From 129 - 131 the core is bluish green and	1343	122.40	123.40	1.00 0.02
138.20	140.50	(2a, Sil Qcb, 2% py) (Silicified Mafic Volcanic) The unit is a fine grained mafic volcanic which is dark grey with a brownish hue to it. Quartz carbonate veining makes up 3 -5% of the unit and pyrite is finely disseminated within and along the edges of the quartz carbonate veins. At 140.1 to 140.5 the contact between this unit and the lower ultramafic unit is faulted. There is rubble fault gauge in this 40 centimetre interval				

HOLE No: MC97-20

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
HOLE No.: MCS97-20

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS			
				FROM	TO	WIDTH Au g/ton	
140.50	143.50	(1a, Alt'd, BK, fol, Spx, 4-5% Py) <b>Moderately Altered Basaltic Komatiite</b> The unit is a medium grained Basaltic Komatiite and is intensely altered from 142 - 143 metres the pyrite content is 3 - 4%. The unit is intensely sheared up and wispy. The mineralization occurs along a wispy crenulation cleavage that is 50 degrees to the core axis	1344	142.00	143.00	1.00	0.02
143.50	153.20	(1a, tc/ch, loc Bx) <b>Brecciated Ultramafic</b> This unit is a talc chlorite Ultramafic. With fractures which are infilled with talc and talc carbonate. The unit is soft and magnetic. The unit is fine grained and brecciated. The colour of the unit is dark grey to black with a bluish hue. The lower section of the unit is medium grained and there is a Spinifex texture which is poorly developed.					
153.20	171.50	(1a, Spx, m alter'd, Py 4% loc) <b>Moderately Altered Ultramafic Flow</b> The unit is moderately altered. There is a Spinifex texture where the elongated blades have finely disseminated pyrite along the edges of these blades. There is a weak foliation which is 42 degrees to the core axis. The entire unit has a Spinifex texture but the pyrite fizzle out at 155.3 metres. Within this unit separate flows are visible. A Spinifex textured flow fades into possible an cumulate flow down section suggesting that tops are up hole. The unit then alternate between being polysutured and Spinifex textured. The sulphide content increase down section and is locally 3% at the lower section of the unit between 171.3 and 171.5 metres.	1345	153.30	154.30	1.00	0.02
171.50	173.00	(2a, Sil, Chl, 4% Py, Qcv) <b>Silicified Mafic Volcanics</b> The unit is harder than an of the previous units. There is Quartz carbonate veins and Quartz veins are on a micro scale <1 mm yet pervasive through out the unit. There is a .5 cm section of 4% blebby and disseminated pyrite near the upper contact.	1346 1347	170.60 171.60	171.60 172.60	1.00 1.00	0.02 0.02

HOLE No: MCS97-20

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
 HOLE No.: MC97-20

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS		
					TO	WIDTH Au g/ton	
		The unit then takes on a greenish hue with a sheen that is similar to MC97-19. This sheen is a result of moderate silicification.					
173.00	200.00	(1a. tc/chl, 2% Py)	1348	172.60	173.60	1.00	0.02
		<b>Ultramafic Flow</b>	1349	188.00	189.50	1.50	0.02
		The unit is magnetic and Pyrite is blebby within the soft talc carbonate fracture fillings. The unit to medium grained and platy. The lower section of the unit is similar to the muddy appearance of the ultramafic in above sections.	1350	189.50	191.00	1.50	0.02
			1351	193.00	194.00	1.00	0.02
			1352	194.00	195.00	1.00	0.02
			1353	195.00	196.50	1.50	0.03
			1354	196.50	197.50	1.00	0.02
200		END OF HOLE					

### DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
100.00	-44.00	140.00
200.00	-44.00	140.00

Battle Mountain Canada Ltd.

DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)

HOLE No.: MC97-21

Collar Eastings: 6375.00

Collar Northings: 6685.00

Collar Elevation: 0.00

Grid: MAIN

NQ CORE STORED B.M.G. STORAGE TIMMINS

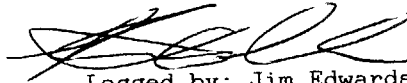
Collar Inclination: -45.00

Grid Bearing: 180.00

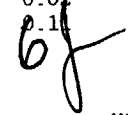
Final Depth: 305.00 metres

DRILLED BY: NDS DRILLING, TIMMINS

CASING LEFT IN HOLE

  
 Logged by: Jim Edwards R CALHOUN  
 Date: MAY 8-May 12, 1997  
 Down-hole Survey: ACID  
 DATES LOGGED: May 9-12, 1997  
 DRILLED ON: P1189764, P1159634

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS			
				FROM	TO	Au g/t	
0	17.6	(Ovb)					
17.6	58.8	<b>Overburden</b> (6c, Mag Py <1%) <b>Matachewan Diabase Dyke</b> The hole was collared into a diabase dyke. The unit is coarse grained and becomes finer at the lower contact. There is a .5 cm chill margin between the diabase and feldspar porphyry. The unit has the typical diabase texture and is moderately to strongly magnetic. There is trace pyrite which is disseminated and coarse <1% Py.					
58.8	98.0	(7d, Hem, Sil, qtz, mag) <b>Hematized Feldspar Porphyry</b> The unit is a coarse grained feldspar porphyry. The unit is reddish in colour the redder areas are a result of increased hematite staining. The unit displays a perthitic texture with feldspar crystals averaging .5 - .8 cm wide in length. The feldspars are lath shaped to sub-hedral to euhedral and are well packed. There is good zonations within the individual feldspars displaying an exsolution halo. The textural characteristics of this unit are homogenous. The unit has micro fractures which are infilled with chlorite and there is spotty magnetite present which composes 2% of the volume of this unit. There are various colour changes that occur in the unit as a result of alteration in the form of silicification, hematization and Quartz veining. Intense silicification gives the unit a greyish translucent overcast to it. While weak to moderate Silicification results in the core having a salmon to fleshy pink colour. Hematization gives the unit a deep red to brick reddish colour. The quartz veins in the unit are small 1 - 3 cm wide and are smoky looking. The quartz veins usually have a greater concentration	1355 1356 1357 1358 1359 1360 1361 1362 1363 1364 1365 1366 1367 1368 1369 1370 1371 1372 1373 1374 1375 1376 1377	58.80 60.30 61.80 63.30 64.80 66.30 67.80 69.30 70.80 72.30 73.80 75.30 76.80 78.30 80.20 81.70 82.70 84.20 85.70 86.70 88.20 89.70 91.20 92.70 96.50	60.30 61.80 63.30 64.80 66.30 67.80 69.30 70.80 72.30 73.80 75.30 76.80 78.30 81.70 82.70 84.20 85.70 86.70 88.20 91.20 92.70 96.50 98.00	1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.00 1.50 1.50 1.50 1.50 1.50 1.50 3.80 1.50	0.02 0.07 0.02 0.02 0.10 0.02 0.02 0.02 0.02 0.05 0.04 0.02 0.02 0.02 0.02 0.02 0.05 0.02 0.02 0.02 0.02 0.09 0.02 0.02 0.11



HOLE No: MC97-21

## Battle Mountain Canada Ltd.

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
HOLE No.: MC97-21

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS			
				FROM	TO	Au g/t	
		of sulphides associated with them. Yet, the unit has finely disseminated sulphides scattered though out.					
		At 58.2 - 61.8 the unit is a deep brick red colour hue to hematization and locally Py 2%					
		At 62 - 66.3 The unit has a greyish overcast due to silicification. The sulphide content in this zone is 3% pyrite.					
		At 68.5 - 70.2 the unit is has angular mafic inclusions incorporated into it. From 83.2 to 87.3 there is a increased concentration of 1 - 3 cm quartz veins with local pyrite up to 2%.					
		The unit takes on a salmon colour at 89 metres and the quartz veining increases. There is a weak foliation which is 49 degrees to the core axis. Fractures sets are also oriented at the same angle. The unit is moderately to intensely silicified down section. The are small zones of 3 - 7 cm wide of intense hematization and silicification that give the unit a deep red colour with a sheen to these areas. These small zones have an increase in pyrite up to 3%.					
		There is a small auto-brecciated zone of zoned feldspar porphyry at 97.9 - 98.1 it has a upper contact angle of 50 degrees to the core axis The individual zoned feldspars are broken up and welded and amalgamated together to from larger fragments 3- 4 cm wide. The fragments are in a dark brownish red matrix.					
98.0	122.5	(7d,Hem, m Sil, Qtz, Py 2- 3% )	1378	98.00	99.50	1.50	0.19
		<b>Silicified and Hematized Feldspar Porphyry</b>	1379	99.50	101.00	1.50	0.11
		The unit is a finer grained equivalent of the above.	1380	101.00	102.50	1.50	0.12
		The colour is variable and is a granitic to syenite pinkish colour. It has a greyish overcast due to	1381	102.50	104.00	1.50	0.02
		silicification. Note that in the above unit the spotty magnetite within the unit made it weakly to	1382	107.00	108.00	1.00	0.02
		moderately magnetic. It seem that the Silicification suppress the magnetite. Only along fresh fractures	1383	108.00	109.50	1.50	0.05
		is the unit weakly magnetic. Locally some areas	1384	109.50	110.50	1.00	0.02
		are intensely silicified and have a fleshy pink	1385	110.50	111.50	1.00	0.02
		colour which is translucent looking. The sulphide	1386	114.50	116.00	1.50	0.02
		content of these zones is up to 3%. These areas	1387	116.00	117.50	1.50	0.02
			1388	117.50	119.00	1.50	0.02
			1389	119.00	120.50	1.50	0.05
			1390	120.50	121.50	1.00	0.02

HOLE No: MC97-21

Battle Mountain Canada Ltd.

DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
HOLE No.: MC97-21

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS			Au g/t
				FROM	TO	WIDTH	
		include the following intervals which also have quartz veins associated with them. 108.3 - 108.5, 110.5 - 111.1, 117.7 117.9, 118.6 - 120.5. At 120.9 there is an increase in the number and concentration of angular mafic inclusions with in the porphyry. The mineralization is along micro fractures of chlorite and Py is also finely disseminated through out the unit. There is a weak preferred fabric which is weak at 52 degrees to the core axis. The unit becomes finer towards its lower contact with a Silicified Mafic.	1391	121.50	122.50	1.00	0.02
122.5	125.3	(2a, Sil ,Ep, Qcv, Py 2 - 3 %, Ank,) <b>Silicified Mafic Volcanic</b> The unit is fine to medium grained . The colour varies due to the presence of Epidote alteration which gives some area of the unit a lime green overprinting. There are both quartz carbonate veins and injections of the felsic porphyry which anastomize throughout the unit. The average width of these Quartz carbonate veins ids 2-4 cm and the Felsic injections is 4 - 6 centimetres wide. There is no pyrite associated with the injection of the porphyry The individual feldspars are still zoned and are larger than when the unit is massive. The pyrite is finely disseminated through out the mafic unit. The unit is harder and dense.	1392 1393	122.50 124.00	124.00 125.30	1.50 1.30	0.02 0.02
125.3	135.4	(7d,Sil,Hem,Qtz, Py 2%, Chl,) <b>Silicified Feldspar Porphyry</b> The unit is similar to the above 7d, There is more micro fractures which are infilled with chlorite and fine pyrite is strung along some of these fractures. There are smoky quartz veins running though the unit that have pyrite associated with them.	1394 1395 1396 1397 1398 1399 1400	125.30 126.30 127.80 129.30 130.80 132.30 133.80	126.30 127.80 129.30 130.80 132.30 133.80 135.20	1.00 1.50 1.50 1.50 1.50 1.50 1.40	0.02 0.02 0.02 0.02 0.02 0.02 0.02
135.4	159.0	(2a, Sil ,Ep, Qcv, Py 3- 4 %, Ankerite,) <b>Silicified Mafic Volcanic</b> This unit is similar to the above mafic unit. There is more Epidote alteration giving the unit a lime green colour and The quartz carbonate veining is intense and with more pyrite associated with	1401 1402 1403 1404 1405 1406	135.20 148.50 153.50 155.00 156.50 157.50	136.80 149.90 155.00 156.50 157.50 159.00	1.60 1.40 1.50 1.50 1.00 1.50	0.02 0.02 0.09 0.02 0.02 0.02

HOLE No: MC97-21

# Battle Mountain Canada Ltd.

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
HOLE No.: MC97-21

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS		
				FROM	TO	WIDTH Au g/t
		<p>them. Again the injections of porphyry have no mineralization associated with them. There is a small zone of finely disseminated pyrite 3 - 4% throughout a quartz carbonate vein at 135.9. And there is a small zone at 154.0 metres of 5cm of massive finely disseminated pyrite.</p> <p>The best zone is from 153.9 to 156.7 where pyrite is 4 -5% and finely disseminated within fine grained intensely silicified mafics and intensely quartz veined on a micro scale</p> <p>At 158.6 to 159. 2 a small porphyry dyke with brecciated inclusions of the mafics.</p> <p>At 164.5 - 165.5 there is a small diabase dyke which intrudes the mafic volcanics. The quartz carbonate veins are moderately pervasive and .5 - 1 cm wide. Pyrite is localized around quartz veins. The lower 1.5 metres of the unit is brecciated before progrades into a feldspar porphyry at 172.5</p>				
172.5	191.2	(7d,Sil, 3% Qzt, Chl Py <1%)	1407	159.00	160.50	1.50 0.02
		(Silicified Feldspar Porphyry	1408	160.50	162.00	1.50 0.04
		The unit has an greyish overcast over the zone	1409	162.00	163.50	1.50 0.02
		feldspars. The unit is salmon coloured with a	1410	163.50	165.00	1.50 0.02
		greyish hue and the unit is the fine grained	1411	165.00	166.50	1.50 0.08
		equivalent of the above. The feldspars are smaller	1412	166.50	168.00	1.50 0.58
		.1 - .4 centimetres wide and more of the grains	1413	168.00	169.50	1.50 0.05
		appear to be sub rounded to rounded Mafic	1414	169.50	171.00	1.50 0.02
		inclusions are sub angular and sub rounded.	1415	171.00	172.50	1.50 0.02
		There is an increase in quartz veining in the unit	1416	172.50	174.00	1.50 0.02
		There is an 4 cm wide quartz vein at the contact	1417	174.00	175.50	1.50 0.02
		which has blebby pyrite with in it along micro	1418	176.50	177.50	1.00 0.02
		fractures of chlorite. The mineralization along this	1419	177.50	179.00	1.50 0.02
		contact is 4 - 5%.	1420	187.50	188.50	1.00 0.02
			1421	188.50	190.00	1.50 0.02
			1422	190.00	191.20	1.20 0.02
191.2	194.6	(2a, Sil ,Ep, Qcv, Py 3- 4 %, Ankerite,)				
		<b>Silicified Mafic Volcanic</b>				
		Again the unit is a moderately silicified mafic				
		volcanic. This mafic unit is medium to coarse				
		grained. Epidote alteration occurs as lime green				
		to pale green patches and blobs thought out the				
		unit. In some areas the unit is so coarse grained it				

HOLE No: MC97-21



Battle Mountain Canada Ltd.

DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
HOLE No.: MC97-21

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS			
				FROM	TO	Au g/t	
		is gabbroic looking at times the unit appears to have netted texture. Again there are injections of porphyry ranging from centimetres to decimetres in length..					
194.6	202	(7d,Sil, Qtz,Chl, Py 1%) <b>Silicified Feldspar Porphyry</b> The unit is salmon coloured and quartz veining is moderate. These veins are 1.5 centimetres wide with finely disseminated pyrite associated with them. The unit also has sub angular mafic inclusions incorporated into it	1423 1424	199.50 201.00	201.00 202.00	1.50 1.00	0.02 0.05
202.0	208.4	(2a/7d, Sil ,Ep, Qcv,,) <b>Mafic Volcanic/Porphyry</b> medium grained, dark green, weakly epidotized, locally "baked" mafic volcanic with 40% randomly oriented porphyry veins sub-parallel to core axis. Porphyry is medium grained pale pink with small(3mm) white feldspars, with zoning locally. Pyrite content is low associated with the porphyry	1425 1426	205.40 206.90	206.90 208.40	1.50 1.50	0.02 0.02
208.4	302.5	(7d,Sil, Qtz,Chl, Py 1%) <b>Porphyry</b> medium grained, brick red generally with local syenite pink zones with increased silica and quartz veining, to deep hematite red. Sections of mixing as above with porphyry dominant over 6m. Pyrite content is highly variable tr to 3-5% in areas of increased quartz veins and bleaching. Some areas are finer grained with feldspar grains nearly gone to form a more syenitic unit. -218-224- mixed section of porphyry and mafics, pyrite 1-3%. Lower contact 5-10% pyrite with quartz veining. -224-228- 5% quartz veining, 1-3% pyrite. -242.1-245- 3-5% quartz veining, increased silica, 3-5 pyrite. -256-258.8- coarse porphyry, feldspars to 1cm, zoned -278-288.5- bleached and quartz veined sections 1 to 10cm with pyrite approximately every 2m. -296-298- 1-2% pyrite in "syenitic" porphyry. Lower contact is 40 degrees to core axis.	1427 1428 1429 1430 1431 1432 1433 1434 1436 1437 1438 1439 1440 1441 1442 1443 1444 1445 1446 1447 1448 1449	208.40 212.00 213.50 215.00 216.50 218.00 219.50 219.50 221.00 221.00 222.90 222.90 224.00 224.00 225.40 225.40 226.60 227.90 227.90 229.40 230.90 233.20 234.60 234.60 235.60 235.60 237.10 237.10 238.60 240.10 240.10 241.10 242.10 242.10 243.10	209.90 213.50 215.00 216.50 218.00 219.50 221.00 222.90 224.00 225.40 226.60 227.90 229.40 230.90 234.60 235.60 237.10 238.60 240.10 241.10 242.10 243.10	1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.90 1.10 1.40 1.20 1.30 1.50 1.50 1.40 1.00 1.50 1.50 1.50 1.00 1.40 1.40 1.00 1.50 1.50 1.50 1.50 1.00 1.00 1.00 1.00	0.06 0.02 0.02 0.02 0.02 0.02 0.05 0.02 0.04 0.10 0.04 0.12 0.11 0.05 0.08 0.30 0.13 0.08 0.06 0.11 0.08 0.08 0.04

HOLE No: MC97-21

Battle Mountain Canada Ltd.

DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
HOLE No.: MC97-21

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS			Au g/t
				FROM	TO	WIDTH	
			1450	243.10	244.10	1.00	0.02
			1451	244.10	245.30	1.20	0.04
			1452	245.30	246.80	1.50	0.02
			1453	250.00	251.00	1.00	0.02
			1454	251.00	252.50	1.50	0.02
			1455	252.50	254.00	1.50	0.02
			1456	265.20	266.20	1.00	0.43
			1457	266.20	267.70	1.50	0.03
			1458	278.00	279.50	1.50	0.02
			1459	279.50	281.00	1.50	0.02
			1460	281.00	282.50	1.50	0.02
			1461	282.50	284.00	1.50	0.02
			1462	284.00	285.50	1.50	0.02
			1463	285.50	287.00	1.50	0.02
			1464	295.00	296.00	1.00	0.02
			1465	301.00	302.00	1.00	0.07

302.5 305.0 (2a, Sil ,Ep, Qcv,,,) **Mafic Volcanic**  
fine grained, dark green, locally epidotized with small 1cm veinlets of porphyry, minor pyrite.

305.0 EOH

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
100.00	-44.00	180.00
200.00	-42.00	180.00
305.00	-42.00	180.00

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)

HOLE No.: MC97-22

Collar Eastings: 6750.00

Collar Northings: 6825.00

Collar Elevation: 0.00

Grid: MAIN

INQ CORE STORED IN BMG STORAGE TIMMINS

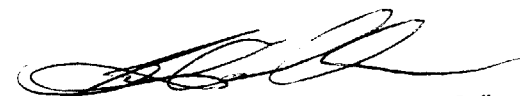
Collar Inclination: -45.00

Grid Bearing: 180.00

Final Depth: 173.00 metres

DRILLED BY NDS DRILLING TIMMINS

CASING LEFT IN HOLE



Logged by: Jim Edwards, R Calhoun

Date: MAY 12-14, 1997

Down-hole Survey: ACID

DATES LOGGED - MAY 13-14, 1997

DRILLED ON: P1189764, P1159633

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS		
					TO	WIDTH	Au g/t
0.0	56.0	(1a, fol, Ser, qcv) <b>Ultramafic</b> fine grained, light to medium green, medium hard, sericitic, foliated 60 degrees to c.a.. Veined with ankerite on foliation and minor quartz veins 1-3cm in width, trace to minor pyrite. Possibly basaltic komatiitic.					
63.0	95.4	(1a, tal/chl, fol, ank, Sp) <b>Ultramafic</b> fine grained, dark green to blackish talc chlorite ultramafic, soft, weakly foliated, locally spotted with carbonate 'grains', carbonate is ankeritic. Spinifex feature locally. Brecciated locally. quartz veining 2-4cm. Small <1m sections of more basaltic appearing units.  84.4-87.7: 5% quartz veins 75-85 degrees to core axis.	1466	57.80	59.00	1.20	0.02
			1467	59.00	60.50	1.50	0.02
			1468	60.50	62.00	1.50	0.02
			1469	84.50	85.70	1.20	0.02
			1470	85.70	86.70	1.00	0.02
			1471	86.70	87.70	1.00	0.02
95.4	97.6	(2a, fol) <b>Mafic Volcanic</b> fine grained, dark green, quartz carbonate veined, weakly mineralized. Upper contact crushed, lower contact 80 degrees to core axis. yrite is disseminated fine.	1472	95.40	96.60	1.20	0.02
			1473	96.60	97.60	1.00	0.02
97.6	108.2	(1a, qcv) <b>Ultramafic</b> - fine grained, medium to dark green, weakly sericitic, trace pyrite, minor to 2% quartz carbonate veins weakly foliated at 45 degrees to core axis. Small bands of mafic volcanic, dark green.					
108.2	117.3	(2a, fg, qcv, Py 1%) <b>Mafic Volcanic</b> fine grained, dark green, massive, very minor quartz/carbonate veins <2mm. Small	1474	110.10	111.10	1.00	0.02
			1475	111.10	111.60	0.50	0.83
			1476	111.60	112.40	0.80	0.06
			1477	112.40	113.40	1.00	0.04



# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
HOLE No.: MC97-22

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS			
				FROM	TO	WIDTH	Au g/t
		inclusions of ultramafics with baked/chill contacts. Pyrite is minor overall as fine disseminations.	1478	113.40	114.30	0.90	0.02
			1479	114.30	115.30	1.00	0.07
			1480	115.30	116.10	0.80	0.02
			1481	116.10	117.30	1.20	0.02
		111.1-111.6: Quartz veining 20% with mafics bleached 2cm on either side. Vein 10 degrees to core axis. Pyrite 15% as coarse cubes, fine dissemination's.					
		112.6-112.8: As above 5-8% pyrite.					
		113.4-114.3: Sericitic ultramafic-5% quartz, nil pyrite, contacts 50 degrees to core axis.					
		115.1-116.1: Sericitic ultramafic.					
117.3	127.1	(1a,qcv, fol) <b>Ultramafic</b> fine grained, medium to dark green, weakly sericitic, 5-10% veining of carbonate (dominant) and quartz <2cm in width. Foliation 45 degrees to core axis.	1482	117.30	118.60	1.30	0.02
			1483	118.60	119.60	1.00	0.35
		118.6-119.6: Mafics with quartz vein and 10% sulfides associated with vein, bleached red vein.					
127.1	151.4	(1a/2a, Py)) <b>Ultramafic/Mafic Volcanics</b> The section is a rhythmic sequence of mafic volcanics and ultramafics.  <b>Ultramafics</b> - fine grained, light to medium green, soft talc ultramafics, weakly to moderately sericitic. Color is dependent on carbonate and quartz veining ranging from 10-25%. Carbonate is dominant with veins <3cm along foliations, 50-60 degrees to core axis. Ultramafics have trace to trace pyrite.	1484	127.10	128.40	1.30	0.09
			1485	130.10	130.70	0.60	0.02
			1486	132.80	133.80	1.00	0.02
			1487	135.90	136.90	1.00	0.02
			1488	140.00	141.50	1.50	0.02
			1489	141.50	142.90	1.40	0.02
			1490	142.90	143.80	0.90	0.02
			1491	143.80	145.00	1.20	0.02
			1492	145.00	146.00	1.00	0.02
			1493	146.00	147.50	1.50	0.02
			1494	147.50	148.90	1.40	0.02
			1495	148.90	150.40	1.50	0.02
			1496	150.40	151.40	1.00	0.02
		<b>Mafic Volcanics</b> - fine grained, dark green, massive with variable pyrite at dissemination's, clusters and fractures related laminae. Veining in the mafics is minor. Pyrite content ranges from 2%					

HOLE No: MC97-22

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
 HOLE No.: MC97-22

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS TO	WIDTH	Au g/t
		to 8% locally. The contacts between ultramafics and mafics are 40-55 degrees to core axis.					
		The following lists the ultramafic and mafic sections:					
		127.1-128.4: MV					
		128.4-130.1: ultra					
		130.1-130.7: MV					
		130.7-132.8: ultra					
		132.8-133.8: MV					
		133.8-135.0: ultra					
		135.0-135.6: MV					
		135.6-135.9: ultra					
		135.9-136.9: MV					
		136.9-140.0: ultra: 30% veining, sericite-moderate fault gouge upper contact WR-531.					
		140.0-142.9: MV					
		142.9-143.8: ultra					
		143.8-146.0: MV					
		146.0-148.9: ultra					
		148.9-151.4: MV					
151.4	173.0	(1a,talc/chl) <b>Ultramafic</b> fine grained, dark green soft talc/chlorite ultramafic. Unit is highly fractured with talc/chlorite between fragments. This may be polysuturing are indicative of faulting. Carbonate/quartz veining is minor. Pyrite is nil.					
		164.4-169.0: Well developed spinifex features.					
173.0		END OF HOLE					

### DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
100.00	-42.00	180.00

HOLE No: MC97-22

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
HOLE No.: MC97-22

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FROM	TO	LITHOLOGICAL DESCRIPTION			SAMPLE No.	FROM	ASSAYS	
							TO	WIDTH Au g/t
		DEPTH	INCLINATION	BEARING				
		173.00	-39.00	180.00				

HOLE No: MC97-22

Battle Mountain Canada Ltd.

DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)

HOLE No.: MC97-23

Collar Eastings: 6875.00

Collar Northings: 6775.00

Collar Elevation: 0.00

Grid: MAIN

;NQ& CORE STORED HEMLO STORAGE TIMMINS

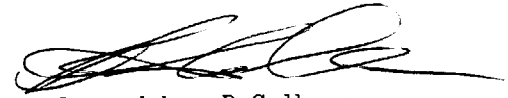
Collar Inclination: -45.00

Grid Bearing: 180.00

Final Depth: 224.00 metres

DRILLED BY: NDS DRILLING, TIMMINS

CASING LEFT IN HOLE



Logged by: R. Calhoun

Date: MAY 21-24, 1997

Down-hole Survey: ACID

DATES LOGGED MAY 22-24, 1997

DRILLED ON: P1159633

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS		
					TO	WIDTH	Au g/t
0.0	33.0	Overburden					
33.0	99.7	(1a, talc/chl, bx, cal, sp, fol) Ultramafic - fine grained, medium to dark green, talc/chlorite ultramafic. Unit is highly fractured to brecciated with numerous fault gouge sections 5-20cm. Calcite occurs as small veinlets randomly oriented <0.5cm in width. Spinifex features were noted at 50-52.5 meters, 92.6-93.1 meters. Units contains 1-3 meter sections of mafic volcanics medium to dark green, fine grained. Foliated at 43 degrees to core axis. Unit is locally magnetic as at 56-60 meters.	1501	85.50	86.00	0.50	0.08
			1502	95.00	96.10	1.10	0.02
			1503	96.10	96.40	0.30	0.02
			1504	96.40	97.30	0.90	0.02
			1505	97.30	97.90	0.60	0.02
		33.0-70.5: Highly brecciated, fractured.					
		70.5-99.7: Unit is more competent but continues to be talc/chlorite.					
		38.8-40.0: Mafic volcanic - 5% quartz veining.					
		41.2-45.7: Mafic volcanic - 5% quartz veining.					
		85.5-86.0: Contains 6cm quartz/carbonate vein with 30% pyrite as massive veinlets.					
		96.1-96.4: Possibly interflow sediment with layering (graphite??) and fine laminae of pyrite. Pyrite also occurs as clusters and disseminations - total pyrite 10%. Layered 65 degrees to core axis.					
		96.4-97.3: Weakly altered ultramafic pale green, siliceous, carbonate veining.					
		97.3-97.9: Possible interflow sediment as above, pyrite <5%.					

2.18006

Battle Mountain Canada Ltd.

DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
HOLE No.: MC97-23

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS			
				FROM	TO	WIDTH	Au g/t
99.7	111.4	(1a, BK, cal, sil, Py 1%, Po 1%) <b>Ultramafic-Basaltic Komatiite</b> fine to medium grained, medium to dark green, unit is competent with increased calcite veinlets, massive. Small patchy silicification which lightens the colour to grey green. Very minor to trace pyrite as disseminations and occasional nodules of pyrrhotite-minor chalcopyrite. Pyrite is associated with calcite veinlets while the pyrrhotite occurs with silicified sections.					
111.4	185.0	(2a/p, chl, Ep, cal, Py loc 5%) <b>Mafic Volcanics</b> fine grained medium green, pillowed mafic volcanics. The pillows are marked by increased chlorite and by epidote which is sometimes abundantly associated with calcite veins. Epidote can occur as "disseminations" giving the unit a lime green colouration. Widespread silicification makes the rock hard (can't be scratched with a knife). Locally the intensity of the silicification gives the core a cherty appearance and a light grey colour. Pyrite is disseminated throughout the section as fine grains, to clusters and fine laminae. The abundance does not have (appear to have) any correspondence to the degree of other alteration. Pyrite is generally 1-2% increasing over short sections to 5-7%. Unit is magnetic throughout weakly to generally moderately to strong with 4-8 meter sections non-magnetic.	1506 1507 1508 1509 1510 1511 1512 1513 1514 1515 1516 1517 1518 1519 1520	122.00 123.00 124.00 125.30 132.50 133.50 134.50 144.90 150.50 152.00 153.50 155.00 156.50 164.00 165.00	123.00 124.00 125.30 126.30 133.50 134.50 135.50 146.00 152.00 153.50 155.00 156.50 158.00 165.00 166.20	1.00 1.00 1.30 1.00 1.00 1.00 1.00 1.10 1.50 1.50 1.50 1.50 1.50 1.00 1.20	0.02 0.02 0.02 0.02 0.04 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.09 0.02 0.02
		122.7-125.3: 15% quartz and/or calcite veining 3 -5% pyrite as disseminations. Quartz is milky white (flooded).					
		133.5-134.5: 5% quartz veining 90 degrees to core axis, glassy 2-4% pyrite, fine disseminations.					
		150.5-158.0: More highly siliceous with pale grey green "cherty" sections. Increased clusters and laminae of pyrite, 3-5% overall (possible varioles?),					

HOLE No: MC97-23



Battle Mountain Canada Ltd.

DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
HOLE No.: MC97-23

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS			
				FROM	TO	WIDTH	Au g/t
		amygdules).					
		158.0-162.2: Ultramafic, dark green, soft, talc/chlorite veining, medium grained.					
		164.0-166.2: Pyrite 5-7% as disseminations and laminae (clusters) increased epidote, siliceous.					
185.0	188.8	(2a, fr, Py 1%) <b>Mafic Volcanic</b> - medium to coarse grained, dark green, massive mafic. Contacts are crushed, fractured upper may be at 60 degrees to core axis. Epidote is minor, pyrite trace to <1% mainly associated with 3cm quartz carbonate vein at 187.9 meters.					
188.8	207.9	(2a, ep,sil , mag) <b>Mafic Volcanic</b> fine grained, medium green to epidote lime green, siliceous, magnetic pillowed volcanic as above. Selvages are again marked by concentrations of chlorite and epidote. Quartz/carbonate veining is nil to minor. Pyrite 1% generally in selvages, 1% locally as disseminations. Pillows are 2-3 meters in size.  197.0-203.0: More massive section decreased epidote and small porphyry section 201.6-202.3m  203-207.4: Increase in pyrite, 1-2% increased alteration with some brecciation, sealed.  207.4-207.9: Siliceous dark grey to green, 1% pyrite.	1521	198.80	200.30	1.50	0.02
			1522	200.30	201.60	1.30	0.02
			1523	201.60	202.40	0.80	0.02
			1524	206.00	207.40	1.40	0.02
			1525	207.40	207.90	0.50	0.02
207.9	224.0	<b>Ultramafic</b> - dark green to black, fine grained, talc/chlorite ultramafic with sections of 1-2% pyrite. Contact with mafic 85 degrees to core axis. Weakly foliated at 58 degrees to core axis. Unit is magnetic and has	1526	207.90	208.80	0.90	0.02
			1527	211.20	212.30	1.10	0.04
			1528	212.30	213.80	1.50	0.14

HOLE No: MC97-23

Battle Mountain Canada Ltd.

DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
 HOLE No.: MC97-23

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS		
				FROM	TO	Au g/t
		207.9-208.8: 3% disseminated pyrite				
		208.8-209.3: Fault gouge.				
		211.2-213.8: 1-3% disseminated pyrite in small "veins" or layers.				
		213.8-224.0: Brecciated and small fault gouge sections.				
224.0		End of Hole				

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
100.00	-42.00	180.00
224.00	-41.00	180.00

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)

HOLE No.: MC97-24

Collar Eastings: 5500.00

Collar Northings: 7175.00

Collar Elevation: 0.00

Grid: MAIN

INQ CORE STORED HEMLO STORAGE TIMMINS

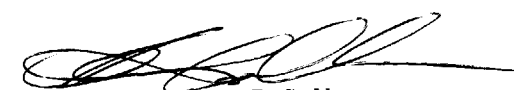
Collar Inclination: -45.00

Grid Bearing: 180.00

Final Depth: 363.00 metres

DRILLED BY: NOREX DRILLING, TIMMINS

CASING LEFT IN HOLE



Logged by: R. Calhoun

Date: OCT 9-12, 1997

Down-hole Survey: ACID

DATES LOGGED OCT9-12, 1997

**DRILLED ON: P1189887**

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS			
					TO	WIDTH	Au g/t	
0.0	63.0	(OVb) Overburden						
63.0	73.0	(2a, cal, fr) <b>Mafic Volcanics</b> Fine to medium grained, medium to dark green, chlorite blebs, minor calcite. Unit is highly fractured to locally crumbled.						
73.0	94.7	(1a, cal, tal/chl) <b>Ultramafic</b> Fine grained, dark green to locally dark green grey, calcite veining. Carbonatization as calcite in matrix abundant 77.0-89.0 meters and a calcite vein to 94.7 meters. Talc/chlorite ultramafic varying to chloritic ultramafic. Locally hardness increases to siliceous hardness.						
94.7	121.0	(1a, chl, py 1-3%) <b>Ultramafic</b> Fine grained, dark green, mainly chloritic, more basaltic in nature. Maybe a highly chloritic basalt. Unit contains pyrite 1-3%, locally 5% as fine disseminations and as minor veinlets discontinuous and large clusters. Calcite veining continues as small white veins <0.5m, 80 degrees and 10 degrees to core axis. Small syenite vein at 106.05-106.20 with 5% pyrite as fine disseminations. Unit is locally magnetic especially from 113.0-121.0 meters.  94.7-106.0: Pyrite 1-3%, locally 5%.  106.0-121.0: Pyrite 1% locally in clusters.	1544	95.10	96.30	1.20	0.02	
			1545	101.20	102.40	1.20	0.02	
121.0	161.0	(1a, chl, sp) <b>Ultramafic</b> Fine grained, dark green, chloritic with local	1546	125.90	127.30	1.40	0.02	

2 1 3 0 0 6j

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
HOLE No.: MC97-24

Page 2

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS		Au g/t
					TO	WIDTH	
		talc/chlorite. Calcite veining as above. Spinifex features from 133.0-137.3 meters. Calcite more abundant towards bottom of section. Unit uniformly magnetic, moderate to strong.					
		125.9-127.3: Felsic dyke, dark grey contact at 35 degrees to core axis, 1-2% pyrite. Ultramafic above is baked in appearance 125.0-125.9 meters and below 127.3-127.5, may contain biotite(?).					
		133.0-137.3: Spinifex features.					
		145.0-149.0: Spinifex features.					
		150.9-161.6: Increase in carbonatization as <0.5m veins and disseminated in matrix. Increase in talc/chlorite. Sulfide content nil to trace.					
161.6	176.1	(7d, sil, py 3-5%, tour, chl)	1547	160.60	161.60	1.00	0.02
		<b>Porphyry</b>	1548	161.60	162.50	0.90	0.02
		Fine to medium grained, pale whitish grey to pink with hematite alteration. Unit is siliceous with multiple quartz veins white to 2cm wide. Pyrite 3-5% as fine disseminations and euhedral grains.	1549	162.50	163.40	0.90	0.02
		Tourmaline occurs with some quartz veins as at 171.2 but most fractures in the porphyry contain chlorite. These fractures are random at 10 to 80 degrees to core axis. Upper and lower contacts at 50 degrees to core axis.	1550	163.40	164.20	0.80	0.02
			1551	164.20	165.70	1.50	0.02
			1552	165.70	167.20	1.50	0.02
			1553	167.20	168.70	1.50	0.02
			1554	168.70	170.20	1.50	0.02
			1555	170.20	171.70	1.50	0.02
			1556	171.70	173.20	1.50	0.02
			1557	173.20	174.70	1.50	0.00
			1558	174.70	176.10	1.40	0.02
176.1	176.9	(f,g) <b>Fault Zone</b> Gouge with abundant calcite, at 52 degrees to core axis, knife edge lower contact, upper contact porphyry.					
176.9	184.7	(1a, fol, tal/chl) <b>Ultramafic</b> Fine grained, dark green to green grey with abundant calcite veins and in matrix. Upper portion of unit is well foliated at 52 degrees to core axis becoming	1559	183.70	184.70	1.00	0.02

HOLE No: MC97-24

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
HOLE No.: MC97-24

Page 3

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS			
				FROM	TO	Au g/t	
		more massive towards the bottom. Unit is talc/chlorite moderate. Lower contact is marked by quartz veining some felsic intrusive and pyrite as disseminations and small veinlets.					
184.7	192.1	(2a, cal, Bl, sil, hm, py 1%) <b>Mafic Volcanic-Basalt</b> Fine grained, dark green massive. Calcite veining is moderate as small veins randomly oriented. Unit is weakly altered as bleaching to 188.5 as feathery patches which may be potassic alteration along fractures. Unit is locally siliceous and has random hematitic "veined" section. Pyrite occurs as fine disseminations, small 0.5cm clusters and as veinlets normally associated with calcite veining. Overall the pyrite content is 1% to locally 1-3%. Lower contact is not well defined.	1560 1561 1562 1563	184.70 186.20 187.70 189.20	186.20 187.70 189.20 190.70	1.50 1.50 1.50 1.50	0.02 0.02 0.02 0.02
192.1	211.2	(2a, Fe T, am, Bl) <b>Fe Tholeiitic-Mafic Volcanic-Amygduloidal Basalt</b> Fine grained, generally dark green with calcite filled amygdules to 0.5cm, generally 1-2mm. Amygdules often occur in clusters which maybe formed at pillow edges but pillows are not very obvious. Pyrite occurs throughout the unit as fine disseminations <1% but increase in altered/bleached sections which occur randomly and often with minor quartz veining. Calcite also occurs as veinlets <0.5cm maximum at generally 48 degrees to core axis. Unit is magnetic locally near 1-2m, moderate to strong.	1564 1565 1566 1567	198.50 200.00 204.50 206.00	200.00 201.30 206.00 207.00	1.50 1.30 1.50 1.00	0.02 0.02 0.02 0.02
211.2	227.0	(2a, Fe T, Bleached, Py 1% ) <b>Mafic Volcanic-Fe Thol. Basalt</b> Fine grained, dark green massive, generally featureless except for area of patchy bleaching, to 10cm. Bleaching to khaki colour probably alteration with minor <1% fine pyrite associate. Minor quartz veining as white to glassy <0.5cm.					
227.0	249.0	(2b, Mg T, am, py) <b>Mafic Volcanic-Mg Thol. Basalt</b> Fine grained, light green to grey due to abundance	1568	247.00	248.00	1.00	0.02

HOLE No: MC97-24

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
HOLE No.: MC97-24

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS			
				FROM	TO	WIDTH Au g/t	
		of calcite in the matrix. Small frequent veins and calcite filled amygdules. Amygdules occur throughout but form frequent clustered zones to 30cm wide which may be marked 1-2m pillows. Selvages are not obvious but may also be marked by increased chlorite. Pyrite is minor to trace.					
249.0	297.3	(2b,qcv,am) <b>Mafic Volcanic-Basalt</b> Fine grained, dark green, less calcite than above but still appears to be pillowed. Calcite occurs as veins small <0.5cm and as white veins to 40cm. Nodules/amygdules of calcite occurs throughout to 0.3cm, locally abundant. Pillow selvages are marked by increased chlorite and secondary bleaching. Some selvages are also marked by basaltic fragments in calcite. Pyrite content is low overall with minor <1.0m sections of 2-4%. Minor sections of Porphyry pink with 2-5% pyrite <10cm.	1569	272.70	273.70	1.00	0.02
		259.4-261.5: Calcite veining to 40cm.					
		265.0-281.0: 10cm zones of mafic fragments in calcite.					
		281.0-287.0: Zones of potassic alteration up to 30cm as khaki coloration, siliceous, carbonatized.					
		297.1-297.3: Hematitic, weakly pyritized.					
297.3	342.8	(2c,chl,am, bx, py 1%) <b>Mafic Fragmental-(Flow Breccia)</b> Fine grained, dark green chloritic matrix, hosting fragments to 4cm, bleached, containing calcite amygdules, and medium green fragments to 1cm less evident. Fragment abundance increases down section with bleached fragments nearly disappear at 329 meters. Frequent fractures generally 30-40 degrees to core axis have <1cm wide pink alteration zones with minor to 1% fine pyrite. Calcite occurs as small veins <3mm wide, white and local nodules of white to pinkish colour. Pyrite is trace overall as	1570 1571 1572	336.10 337.10 341.80	337.10 338.10 342.80	1.00 1.00 1.00	0.02 0.02 0.02

HOLE No: MC97-24

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
 HOLE No.: MC97-24

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS		
					TO	WIDTH	Au g/t
		fine disseminations. Locally weak to moderately magnetic.					
		336.5-337.1: Foliated 40 degrees to core axis, 1-2% pyrite as fine disseminations.					
		341.1-342.8: Foliated 50 degrees to core axis with 1-2% pyrite as fine disseminations and local clusters of euhedral grains.					
342.8	347.1	(2a/b, am,py 1-3%) <b>Mafic Volcanic-Basalt-Amygduloidal</b> Fine grained, medium green matrix hosting calcite amygdules generally <1mm to locally 3mm. Unit maybe pillowed with cluster or increased amygdules may reflect pillow edges. Pyrite 1-3% as fine disseminations and semi continuous veinlets. Upper contact at 50 degrees to core axis. Calcite also occurs as <5mm white veins.	1573 1574 1575	342.80 344.30 345.70	344.30 345.70 347.10	1.50 1.40 1.40	0.02 0.02 0.02
347.1	363.0	(2b,chl,bl,py 1%) <b>Mafic Volcanic-Pillowed Basalt</b> Fine grained, very dark green matrix to locally medium green, chloritic. Pillow selvages are marked by increased chlorite and occasionally by <3mm veinlets of pyrite. Calcite amygdules occurs throughout <1mm in uppersection to up to 7mm below 356.0m. Calcite also occurs as small veinlets <5mm randomly oriented and irregular nodules. Locally there is minor bleaching at pillow selvages extending over 5-10cm. Pyrite is nil to trace generally except where noted.  348.4-350.0: Veinlets of pyrite associated with pillow selvages are approximately 0.5 massive wide	1576	348.40	350.00	1.60	0.25
363.0		END OF HOLE					

HOLE No: MC97-24

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
 HOLE No.: MC97-24

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS TO	WIDTH	Au g/t
DOWN-HOLE SURVEY DATA							
		DEPTH	INCLINATION	BEARING			
		65.00	-42.00	180.00			
		150.00	-40.00	180.00			
		250.00	-39.00	180.00			
		296.00	-39.00	180.00			
		363.00	-39.00	180.00			



# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)

HOLE No.: MC97-25

Collar Eastings: 5875.00

Collar Northings: 7000.00

Collar Elevation: 0.00

Grid: MAIN

;NQ& CORE STORED HEMLO STORAGE TIMMINS


Collar Inclination: -45.00

Grid Bearing: 180.00

Final Depth: 239.00 metres

DRILLED BY: NOREX DRILLING, TIMMINS

CASING LEFT IN HOLE



Logged by: R. Calhoun

Date: OCT 14-17, 1997

Down-hole Survey: ACID

DATES LOGGED OCT 15-18, 1997

DRILLED ON: P1189887

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS TO	WIDTH	Au g/t
0.0	37.0	(OVB) <b>Casing</b>					
37.0	49.9	(6c) <b>Diabase</b> Fine to medium grained, medium green, massive with diabase texture. Unit is fine grained 47.0-49.9.					
49.9	63.7	(2a, Fe T, cal, py 5%) <b>Mafic Volcanic-Fe Thol. Basalt</b> Fine grained, dark green, medium hardness, possibly weakly siliceous, massive with multiple fractures generally calcite filled. Fracture 15, 60 and 85 degrees to core axis.  51.4-52.6: Small vein or layers of felsic intrusive (syenite) with minor pyrite. Pyrite 5% in mafic between intrusive layers at 52.1-52.2 meters.  63.4-63.7: Felsic at contact, minor pyrite associated with felsics.					
63.7	81.6	(1a, tal/chl) <b>Ultramafic</b> Fine grained, dark green to blackish, soft, chloritic and talcose, massive except for calcite filled fractures as above and as local nodules as at 77.0-81.0 meters- very low core angle					
81.6	84.0	(7, hm, am) <b>Felsic Intrusive</b> Medium grained, pink to brick red, hematitic. Unit contains calcite which appears to be amygdules or phenocrysts slightly pink <1mm generally but up to 2mm in size. Groundmass, matrix is highly calcitic. Calcite takes in a pinkish coloration from the hematite. Lower contact is knife edged at 70 degrees to core axis. Mag 4000-6000 susceptibility.					

2.18000

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
HOLE No.: MC97-25

Page 2

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS			Au g/t
				FROM	TO	WIDTH	
84.0	99.1	(2a, hm, sil, ep,sil) <b>Mafic Volcanic-Basalt</b> This zone contains abundant hematite, locally silicified, epidote, and calcite amygdules locally. Alteration has made unit petrology difficult but sufficient flow structures are preserved. Fine grained, colour varies from dark green to brick red based on hematite content. Small quartz eyes?? are formed locally. Stretched, calcite amygdules generally 1mm locally 3mm. Magnet susceptibility-2000 to 4000 locally.  84.0-90.1: 50/50 relatively unaltered mafic and hematized mafic, patchy zones of quartz and feldspar veins? with associated bleaching. Pyrite content is highly variable but can reach 5-7% locally over 1 meter. Patchy alteration may in part be due to brecciation and layered alteration may indicate selvages differentially altered. Unit siliceous .  90.1-95.0: Hematite alteration dominates with less areas of dark green epidotized mafic. Pyrite content increases to be generally 3-7%. Local quartz veins have 5-10% pyrite associated as at 94.3 to 95.0 meters. Small brecciated zone at 94.2-94.3 meters.  95.0-99.1: Amygduloidal basalt with calcite filled amygdules and minor quartz filled. Pyrite 1-3% but from 98.0-99.1-small quartz filled fractures have fine disseminated pyrite 0.4cm on either side.	1577	85.10	86.20	1.10	0.04
			1578	86.20	87.10	0.90	0.02
			1579	87.10	88.50	1.40	0.02
			1580	88.50	89.50	1.00	0.02
			1581	89.50	91.00	1.50	0.02
			1582	91.00	92.50	1.50	0.02
			1583	92.50	94.00	1.50	0.02
			1584	94.00	95.00	1.00	0.02
			1585	95.00	96.50	1.50	0.02
			1586	96.50	98.00	1.50	0.04
			1587	98.00	99.10	1.10	0.02
99.1	120.7	(2a, bx,hm,ep,Sil, py 1-2%) <b>Mafic Volcanic-Basalt Breccia (Fragmental)</b> Fine grained, medium to dark green matrix hosting fragments of similar composition. Fragmental range from subrounded to angular <0.5cm to 3cm. Hematite alteration is nil to locally moderate especially above 112.1. Epidotization is distributed throughout weak to moderate and locally strong as noted below. Unit is fairly uniformly silicified moderate to strong. Pyrite content is <1%-2% generally as disseminations slightly higher in areas of narrow veinlets.	1588	99.10	100.60	1.50	0.02
			1589	100.60	102.10	1.50	0.02
			1590	102.10	103.60	1.50	0.02
			1591	103.60	105.10	1.50	0.02
			1592	105.10	106.20	1.10	0.02
			1593	106.20	107.50	1.30	0.02
			1594	107.50	109.00	1.50	0.02
			1595	109.00	110.50	1.50	0.02
			1596	110.50	112.10	1.60	0.02
			1597	112.10	113.60	1.50	0.02
			1598	117.20	118.20	1.00	0.02

HOLE No: MC97-25

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
HOLE No.: MC97-25

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS			
				FROM	TO	WIDTH	Au g/t
			1599	118.20	119.20	1.00	0.02
			1600	119.20	120.70	1.50	0.02
		99.1-106.2: Hematitic breccia with fragments to 3cm, variably hematitized matrix and fragments are generally hematitic-epidote occurs as interstitial "veins" and fracture fillings. Silicified magnetic locally.					
		106.2-106.6: Epidotitic breccia-nil hematite and the fragments appear suspended in an epidote matrix. Fragments are smaller than above <1cm with some cherty grey fragments with pyrite. Silicified.					
		106.6-112.1: Hematitic breccia as above, silicified, epidote as fracture fillings and local netting. Pyrite content 1-2% locally 5% in narrow veining. Magnetic locally.					
		112.1-120.7: Epidotitic breccia with weakly hematized fragments, fragments to 2cm+, in an epidotitic matrix and some fracture fillings. Some cherty fragments as above. Pyrite is minor to 1%. Unit is very siliceous. Minor quartz veining. Local magnetic, strong.					
120.7	124.9	(6a,ep,cal, qv) <b>Mafic Intrusive</b> Medium grained, dark green to epidote green. Epidotized matrix. Minor to 1% calcite veining, and calcitic matrix. Quartz veining is minor.					
			1101	124.90	126.40	1.50	0.02
			1102	126.40	127.90	1.50	0.02
			1103	127.90	129.40	1.50	0.02
124.9	129.4	(2a,fol, hm) <b>Mafic Volcanic-Foliated Basalt</b> Fine grained, dark green matrix to pink where calcite occupies the foliation trend, hematitic. Calcite veins or foliation fillings define to the foliation at 35 degrees to core axis. Unit is soft and may have a sedimentary component.					
			1104	129.40	130.40	1.00	0.02
			1105	130.40	131.90	1.50	0.02
			1106	131.90	133.40	1.50	0.02
129.4	134.1	(2a,bx,hm, mag) <b>Mafic Volcanics-Basaltic Breccia-Hematitic</b> Fine grained, hematitic matrix hosting fragments to 2cm, sub-rounded to angular, some fragments are grey cherty in appearance. Unit is silicified, strongly. Unit is uniformly strongly magnetic. Pyrite 1-3% as disseminations and small veinlets.					

HOLE No: MC97-25

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
HOLE No.: MC97-25

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS			Au g/t
				FROM	TO	WIDTH	
134.1	143.3	(2a. bx, Ep, py 1-2%) <b>Mafic Volcanic-Basaltic Breccia-Epidotitic</b> Unit is similar to above but hematite has been replaced by epidote. Pyrite is 1-2% generally. Fragments are up to 2cm in size. Unit is uniformly magnetic. Quartz veining is a minor component as narrow very infrequent veins.	1107	140.00	141.20	1.20	0.02
			1108	141.20	142.20	1.00	0.02
			1109	142.20	143.30	1.10	0.08
143.1	239.0	(2b, chl, cal, ep, sil) <b>Mafic Volcanic-Pillowed Basalt</b> Fine grained, pale to light green, hard, pillowed. Pillows are marked by slight increase in chlorite, medium green and generally calcite and epidote in the upper section. In the lower section some selvages have sericitic weak. Pyrite is minor and is generally located within calcitic selvages. Some sections are brecciated. These are probably flow breccia with fragments to 3cm with dark green edges with pale green interiors. The unit is silicified moderately to strongly. The basalt are ubiquitously silicified but does not seem to alter the unit.	1110	159.30	159.70	0.40	0.04
			1111	184.40	185.60	1.20	0.02
			1112	185.60	186.60	1.00	0.02
			1113	186.60	187.60	1.00	0.02
			1114	187.60	188.50	0.90	0.02
		146.2-148.8: Flow breccia fragments to 3cm with dark edges, epidote, calcite between fragments.					
		148.8-154.3: Pillowed with some small fragments in selvages. Small 10cm syenite at 150 meters.					
		154.3-159.6: Flow breccia with fragments to 3cm with dark rims. Fragments are suspended in a dominantly calcite matrix with some epidote. Upper contact at 88 degrees to core axis but is somewhat contorted.					
		154.3-154.7: Hematitic syenite with 1-3% pyrite.					
		159.7-170.0: Pillow basalt with small sections of brecciation which may be in selvages, weak sericite.					
		170.0-184.4: Pillowed basalt with net patterned fractures, bleach possibly weakly sericitic? Numerous					

HOLE No: MC97-25

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
 HOLE No.: MC97-25

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS TO	WIDTH	Au g/t
		calcite veinlets.					
	184.4-188.5:	Section contains weak pyrite, small hematitic syenites and small section of bleaching.					
	188.5-239.0:	Pillowed basalts-pillows average 1.0-1.5 meters with local small pillows <0.5cm. Brittle fracturing with calcite probable sericite in net patterned fracturing. Pyrite minor generally with calcite in selvages. Pillow selvages are dark rimmed. Calcite in selvages in abundant to 226.7 where "new" flow begins. Contact is 80 degrees to core axis. Lower flow is pillowed not as fractured and contains more sericite as blebs and irregular patches.					
239.0		END OF HOLE					

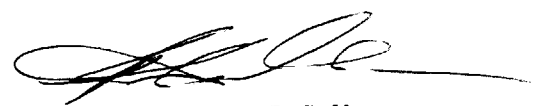
### DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
50.00	-44.00	180.00
150.00	-43.00	180.00
200.00	-41.00	180.00
239.00	-41.00	180.00

HOLE No: MC97-25

# Battle Mountain Gold

## DIAMOND DRILL LOG



PROPERTY: Mahoney Creek (507)  
 HOLE No.: MC97-26  
 Collar Eastings: 6125.00  
 Collar Northings: 6425.00  
 Collar Elevation: 0.00  
 Grid: MAIN  
 CORE STORED AT BMG STORAGE TIMMINS ONTARIO

Collar Inclination: -45.00  
 Grid Bearing: 180.00  
 Final Depth: 200.00 metres  
 DRILLED BY: NOREX DRILLING, TIMMINS  
 CASING LEFT IN HOLE

Logged by: R. Calhoun  
 Date: OCT 18-21, 1997  
 Down-hole Survey: ACID  
 DATES LOGGED OCT 19-21, 1997  
**DRILLED ON: P1189764**

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS			
				FROM	TO	WIDTH	Au g/t
0.0	15.0	(OVb) Overburden to 14.7m.					
15.0	22.8	(6C) <b>Diabase</b> Dark grey to blackish, fine grained, strongly magnetic-Lower contact at 45 degrees to core axis.					
22.8	48.2	(2b / 7, Ep ) <b>Mafic Volcanic-Pillowed Basalt/Porphyry</b> Fine grained, light epidote green to locally dark green, epidotized siliceous, saussuritized, locally baked due to injection of porphyry. The porphyry which comprises 20% of the section, varies from coarse perthitic with zoned feldspars to 1cm and fine syenitic. The porphyry is generally brick red hematitic, contacts are at 45-48 degrees to core axis. Porphyry "veins" range from 5cm to 80cm with a larger section at 37.5-39.6cm. Fracturing in felsics are filled with calcite as in the mafics. Unit is locally moderately to strongly magnetic.	1115	40.00	41.00	1.00	0.07
48.2	62.3	(2b, hm, mag) <b>Mafic Volcanic-Basalt</b> Fine grained, grey with pink/red overcast. The mafics in this section have taken up some of the hematite from the porphyry fluids with only small sections 10-15cm of porphyry fine grained. The mafics are highly fractured to veined with stock-work pattern (ladden veins) filled with calcite. Some volcanic textures remain but are generally gone. Pyrite content is nil to trace. Locally magnetic. 58.4-61.5: Mafics completed hematitized brick red with minor quartz and trace sulfides. Minor felsics.	1116	55.00	56.00	1.00	0.02
			1117	56.00	57.40	1.40	0.24
			1118	57.40	58.40	1.00	0.09
			1119	58.40	59.40	1.00	0.37
			1120	59.40	60.50	1.10	1.28
			1121	60.50	61.50	1.00	1.29
62.3	73.0	(2b,7d, ep,cal,chl) <b>Mafic Volcanics-Basalt</b>	5101	61.50	62.40	0.90	0.17
			5102	62.40	63.80	1.40	0.02

2.1800 of

HOLE No: MC97-26

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
HOLE No.: MC97-26

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS		Au g/t
					TO	WIDTH	
			5103	63.80	64.80	1.00	0.26
			5104	64.80	65.80	1.00	0.07
			5105	65.80	66.80	1.00	0.02
			5106	66.80	68.00	1.20	0.02
			5107	68.00	69.40	1.40	0.02
		Pillowed, fine grained, epidote green with minor grey sections as above. Porphyry is minor component of this section as medium to coarse grained perthitic feldspar porphyry with "veins" 10-20cm. Pillow selvages are marked by calcite/epidote and chloritic rims. There is an increase in quartz veining over above to <5% of section. Pyrite content is trace to nil.					
73.0	83.1	(2a, hm, sil, py 1%)	5108	75.10	76.20	1.10	0.73
		<b>Mafic Volcanic-Basalt</b>	5109	76.20	77.40	1.20	0.02
		Fine grained, grey with pink/red overcast due to hematite. Mafics are quite altered and have lost all volcanic textures. Brick red sections are siliceous, hematitized, and have minor quartz veining as <2cm wide veins. Pyrite content is 1% to trace occurring generally in areas with chlorite fillings on fractures. Chlorite is a minor component throughout. Porphyry occurs as small veins <10cm to 1.4 meters from 74.9 to 76.3 meters, coarse feldspar porphyry.	5110	77.40	78.90	1.50	0.28
			1122	78.90	80.30	1.40	0.65
			1123	80.30	81.40	1.10	1.64
			1124	81.40	82.10	0.70	0.04
			1125	82.10	83.10	1.00	0.02
83.1	95.4	(2a, alt'd/7d, hm, ser,py 1%)	1126	83.10	84.50	1.40	0.11
		<b>Mafic Volcanic-Altered Basalt</b>	1127	84.50	86.00	1.50	1.42
		Fine grained, khaki colored alternating with hematitic bands. Foliation is 10-20 degrees to core axis. Alteration in this zone is visually more intense than above with increased carbonatization and sericitization, probable saussuritization. Pyrite occurs as euhedral grains and fine disseminations locally to 2% but generally trace to <1%. Carbonatization is calcite.	1128	86.00	87.50	1.50	0.11
		92.4-95.4: Less sericite, becomes grey as above with porphyry forming contact area 94.3-95.4, coarse grained, feldspar porphyry.	1129	87.50	89.00	1.50	1.20
			1130	89.00	90.20	1.20	0.18
			1131	90.20	91.20	1.00	0.02
95.4	103.6	(2a/7d, mag)					
		<b>Mafic Volcanics-Basalt/Porphyry</b>					
		Fine grained epidote green mafic volcanic, probably pillowed with 50% porphyry to 99.7 meters, minor pyrite in porphyry, mafics are epidotitized or saussuritized fractures and in matrix. Variably magnetic.					

HOLE No: MC97-26

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
 HOLE No.: MC97-26

Page 3

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS			Au g/t
				FROM	TO	WIDTH	
103.6	115.3	(7d/2a) <b>Porphyry/Basalt</b> Fine to medium grained feldspar porphyry generally brick red alternating with basalt 60% porphyry/40% basalt. Porphyry contains pyrite 1-2% as disseminations and local small clusters, while the basalt which is grey to pink overcast contains 1-2% pyrite as fine disseminations. Pinkish coloration is hematite, and the basalts may in part be carbonatization. Calcite occurs in fractures and minor small veinlets. Moderate to strongly magnetic over 1-2 meters.	1132	107.40	108.90	1.50	0.20
			1133	108.90	109.90	1.00	0.02
			1134	109.90	110.60	0.70	0.02
			1135	110.60	111.60	1.00	0.11
			1136	111.60	112.50	0.90	0.06
			1137	112.50	113.50	1.00	0.02
			1138	113.50	114.50	1.00	0.02
115.3	152.7	(2a/7d, Ep,sil,hm, qv, py 2%) <b>Mafic Volcanic-Basalt/Porphyry</b> Fine grained, epidote green, saussuritized basalt with grey/pink sections containing 20% feldspar porphyry. Basalts are saussuritized epidotized, siliceous, locally brecciated, 123.5-129.8. Porphyrys are medium to coarse grained, zoned feldspars and minor quartz veining. Pyrite content overall is minor with small sections 1-2% as fine disseminations. One calcite vein at 129.8 contains minor specularite. Locally moderately to strongly magnetic. 148.2-151.3: Coarse grained porphyry with zoned feldspar to 5mm.	1139	129.90	130.90	1.00	0.02
			1140	145.90	146.90	1.00	0.02
			1141	146.90	148.20	1.30	0.26
			1142	148.20	149.70	1.50	0.20
			1143	149.70	151.30	1.60	1.58
			1144	151.30	152.70	1.40	0.02
152.7	200.0	(2b, hm, calcite, py) <b>Mafic Volcanic-Pillowed Basalt</b> Fine grained, epidote green to dark green, saussuritized pillowed basalt. Pillows are marked by calcite weak hematite in selvages with dark chloritic rims. Unit 11locally brecciated in selvages. Fracturing is random to locally abundant with associated saussuritization and minor calcite. Pyrite content is generally nil to trace with minor sections of 1% over <0.5m. Small veins of medium grained feldspar porphyry are randomly distributed and are <10cm in length. Alteration is epidotization, weak to moderate					

HOLE No: MC97-26



# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
 HOLE No.: MC97-26

Page 4

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS TO	WIDTH	Au g/t
		hematization, and moderate silicification. Unit is non magnetic overall with small sections moderately magnetic, <0.5m. Rock is highly fractured locally crumbled, fracture-45 to 70 degrees to core axis.					
200.0		END OF HOLE					

### DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
20.00	-43.00	180.00
100.00	-43.00	180.00
200.00	-41.00	180.00

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)

HOLE No.: MC97-27

Collar Eastings: 6125.00

Collar Northings: 6275.00

Collar Elevation: 0.00

Grid: MAIN

NQ CORE STORED BATTLE MOUNTAIN STORAGE TIMMINS

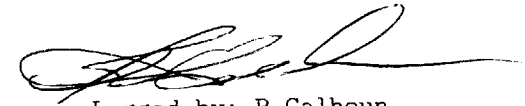
Collar Inclination: -45.00

Grid Bearing: 180.00

Final Depth: 275.00 metres

DRILLED BY: NOREX DRILLING, TIMMINS

CASING LEFT IN HOLE



Logged by: R. Calhoun

Date: OCT 21-29, 1997

Down-hole Survey: ACID

DATES LOGGED OCT 22-29, 1997

DRILLED ON: P1189764, P998384

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS		
				FROM	TO	WIDTH Au g/t
0.0	18.0	(Ovb) <b>Overburden/Casing</b>				
18.0	29.3	(2a/b, cal, am / 7FP) <b>Mafic Volcanic-Pillowed Basalts</b> Fine grained, pale (bleached) to medium green, calcitic pillowed basalt. Selvages are marked by calcite and dark chloritic rims. Unit is locally bleached to pale green over 3-5cm and along some fractures. amygdaloidal with feldspar filled amygdules. Unit is brittle fractured to crushed. 25.0-26.9: Coarse grained, perthitic, feldspar porphyry-red to brick red. Feldspars 60-70% of unit 25-26 meters. Upper contact at 40 degrees to core axis. Lower 70 degrees to core axis.				
26.9	32.2	(7d) <b>Felsic Intrusive</b> Fine grained, feldspar porphyry, dark red to greenish, nil to trace pyrite.				
32.2	159.7	(2a, hm, sil, felds)	1145	66.50	67.90	1.40 0.02
32.3		<b>Mafic Volcanic-Pillowed Basalt</b> Fine grained, pale green to medium green, calcitic pillowed basalt. Unit is as above except that the pale green colour and bleaching are dominant. Pyrite is <1% overall with very small sections of 1-2%. Hematite on some fractures. Porphyry sections are <20cm and coarse. Green epidote is wide spread and possible feldspathization in bleached section or saussurization with a combination of epidote, calcite and zeolites. The saussurization occurs as complete bands to 10cm and as brittle fracture veins forming a net pattern. The rock is also highly silicified to	1146	71.00	72.50	1.50 0.02
			1147	72.50	74.00	1.50 0.02
			1148	103.00	104.00	1.00 0.02
			1149	104.00	105.00	1.00 0.02
			1150	105.00	106.20	1.20 0.02
			1151	106.20	107.70	1.50 0.02
			1152	111.70	112.80	1.10 0.02
			1153	112.80	114.20	1.40 0.02
			1154	114.20	115.20	1.00 0.02
			1155	115.20	115.80	0.60 0.02
			1156	115.80	117.50	1.70 0.02
			1157	117.50	119.00	1.50 0.02
			1158	119.00	120.50	1.50 0.02

1145-1158

HOLE No: MC97-27

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
HOLE No.: MCS97-27

Page 2

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS		Au g/t
					TO	WIDTH	
		very hard.	1159	131.00	132.00	1.00	0.02
			1160	132.00	133.00	1.00	0.02
		he entire unit is brittle fractured with few pieces	1161	135.00	136.00	1.00	0.02
		ver 10cm to locally crushed to <2cm pieces.	1162	136.00	137.00	1.00	0.02
		alcite is moderately abundant occurring as small	1163	137.00	138.00	1.00	0.02
		<1cm veins, within selvages and with in the matrix.	1164	157.50	159.00	1.50	0.02
		Selvages are also locally marked by dark rims (chloritic?). Alteration intensity is moderate to high. Small veins of porphyry <10cm.					
		06.2-111.7: Dark green flow with less alteration and calcite veins, weak pyrite.					
		11.7-111.5: perthitic porphyry with up to 0.6cm white zones feldspar moderately abundant dark brick red with basalt inclusion 70cm. Upper contact at 65 degrees to core axis. Lower contact 60 degrees.					
		11.9-112.8: Porphyry is sheared with abundant calcite in veins and fracture fillings, minor pyrite.					
		17.5-120.5: Mixed zone of fractured to brecciated basalt and random veins of porphyry weakly mineralized with pyrite.					
		31.0-137.0: Short sections of hematitized basalts with 1% pyrite as at 136.0-137.0m.					
		37.0-154.0: Small <20cm porphyry veins red, feldspar to <2mm generally 60 degrees to core axis. Pyrite is minor <1% to trace. Pervasive saussuritization can exceed 10cm but more is associated with features.					
		56.2-159.1: Hematitized, calcite vein, quartz veining minor possible leucoxene basalt. Pyrite 1%. Lower contact 60 degrees.					
159.7	180.6	(2a, sil, hem) <b>Mafic Volcanic-Basalt</b> Medium grained, dark green with pale green patches and discordant "veinlets". Unit is not as	1165	179.70	180.60	0.90	0.02

HOLE No: MC97-27

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
HOLE No.: MC97-27

Page 3

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS			
				FROM	TO	WIDTH	Au g/t
		siliceous as above although still quite fractured appears more competent than above. Contains small <10cm veins of porphyry and one vein 71.0 meters. Hematite is more universally abundant but weak. Minor hematitized section especially in lower contact area. Calcitic matrix and calcite veins <5mm random.					
		160.4-161.4: Brick red porphyry, white zoned feldspars.					
		165.3-167.2: Felsic intrusive-not obviously a porphyry, feldspar quartz matrix is diffuse, pink to brick red.					
		179.7-180.6: Hematitized basalt and 15cm of felsic intrusive. Pyrite 1%.					
180.6	241.6	(2b,Ep,Sil, hem) <b>Mafic Volcanic-Pillowed Basalt</b> Fine grained, dark green to pale epidote green in saussuritized sections. Saussuritization is pervasive over 5-10cm and associated with brittle fractures to form net patterns. Pillows are marked by dark rims, brecciated basalt, selvages in this section are not calcitic as in above. Unit is also fractured and generally core is in pieces >10cm. Small section of weak hematitization occur randomly. Unit is pervasively silicified, hard. Minor porphyry veins <5cm. Pyrite <1% to locally 2-3%. Quartz is a minor component. Calcite in matrix and in small <4mm veinlets.	1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1182	180.60 181.70 195.30 196.30 209.20 210.20 213.50 214.50 215.10 216.10 218.00 219.20 229.40 233.10 234.50 235.50 237.00 237.00 240.80	181.70 182.80 196.30 197.30 210.20 211.10 214.50 215.10 216.10 219.20 220.20 230.50 234.50 235.50 237.00 238.20 241.60	1.10 1.10 1.00 1.00 1.00 0.90 1.00 1.00 0.60 1.00 1.20 1.00 1.10 1.40 1.00 1.50 1.20 0.80	0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02
		81.7-182.8: Hematitized section with 10% quartz veining with pyrite 1% and small chalcopyrite blebs in quartz.					
		95.3-197.3: Weak hematite, 10% quartz/calcite veining 1-3% pyrite contacts 48 degrees to core					

HOLE No: MC97-27

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
 HOLE No.: MC97-27

Page 4

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS			
				FROM	TO	WIDTH Au g/t	
		axis.					
		09.1-211.1: Porphyry-felsic intrusive with inclusions of basalt. Pyrite 2-3%.					
		13.5-215.1: Weakly Hematitized calcite and quartz veined, with 3-6% pyrite as fine disseminations and fine veinlets. Weakly magnetic.					
		29.4-230.5: Pyrite 2-5% as fine disseminations in saussuritized volcanics.					
		33.1-240.8: Unit continues to be saussuritized but contain variable hematite weak to moderate locally. Pyrite is minor generally.					
		40.8-241.6: Felsic intrusive at contact, 1-2% minor chalcopyrite.					
241.6	275.0	(6a)	1183	241.60	242.60	1.00	0.02
		<b>Mafic Intrusive</b>	1184	242.60	243.60	1.00	0.02
		Medium grained dark green to blackish with grains or nodules of pyroxene or chloritoid to biotite.	1185	248.00	249.00	1.00	0.02
		Weakly mineralized, locally with pyrite very minor cpy. Small felsic veins. Unit is massive, finer grained at upper contact weakly calcitic. Small sections of blue fibrous mineral, talc??	1186	255.30	256.30	1.00	0.02
			1187	256.30	257.30	1.00	0.04
			1188	264.90	266.00	1.10	0.07
			1189	269.00	270.00	1.00	0.04
			1190	270.00	271.00	1.00	0.02
		Pyrite occurs locally at 1-3%, usually disseminated but also as fine veinlets near felsic veins which occur frequently. The felsic veins are <20cm rarely >30cm.					
275.0		END OF HOLE					

HOLE No: MC97-27

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
 HOLE No.: MC97-27

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS TO	WIDTH	Au g/t
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DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
50.00	-43.00	180.00
209.00	-41.00	180.00

HOLE No.: MC97-27

# Battle Mountain Canada Ltd.

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)

HOLE No.: MC97-28

Collar Eastings: 9125.00

Collar Northings: 6185.00

Collar Elevation: 0.00

Grid: MAIN

NQ CORE STORED BATTLE MOUNTAIN STORAGE TIMMINS

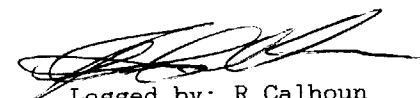
Collar Inclination: -45.00

Grid Bearing: 180.00

Final Depth: 254.00 metres

DRILLED BY: NOREX DRILLING, TIMMINS

CASING LEFT IN HOLE



Logged by: R. Calhoun

Date: OCT 21-29, 1997

Down-hole Survey: ACID

DATES LOGGED OCT 29-NOV 3, 1997

DRILLED ON: P1189528, P1159640

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS		Au g/t
					TO	WIDTH	
0.0	3.0	(Ovb) <b>Overburden/Casing</b>					
3.0	30.3	(2a/b, FeT, cal, sil, mag) <b>Mafic Volcanic-Pillowed Basalts</b> Fine grained, medium to dark green FeT basalt, with pillow selvages marked by increased chlorite. Pillows are generally large 2-3 meters. Unit is calcitic in matrix and as small <1mm veins. Unit is variably siliceous weakly to moderately. Pyrite content is low generally associated with selvages. Unit not magnetic.					
30.3	41.5	(6c) <b>Mafic Intrusive-Diabase</b> Medium grained, medium grey to grey brown, diabase texture. Highly fractured <1% to 1% fine disseminated pyrite. Lower contact chilled, weakly hematitic. Contacts at 60 degrees to core axis.					
41.5	238.0	(2a/b, FeT, sil, Py, Ep, qcv, Py) <b>Mafic Volcanic-Pillowed Basalts</b> Fine grained, dark green, weakly siliceous, FeT with numerous calcitic veinlets, weak epidote. Calcite veins are up to 1cm but are generally <0.5cm. Minor quartz veining glassy with minor pyrite as disseminations and discontinuous veinlets. Infrequent weak bleaching generally associated with selvages. Calcite veinlets in healed fractures increase down hole. Unit is moderately siliceous possibly increasing down hole. Minor quartz veining overall. Patchy epidote alteration.  97.0-113.0: Unit becomes very dark green to black, weakly magnetic, still siliceous. Calcite filled	1191 1192 1193 1194 1195 1196 1197 1198 1199 1200 5111 5112 5113 5114 5115 5116	41.50 43.00 44.50 45.50 49.00 50.00 51.20 52.30 53.50 54.50 56.00 57.00 58.00 59.00 134.50 145.60 150.90 152.00 159.90 161.00 162.30	43.00 44.50 45.50 50.00 52.30 54.50 56.00 57.00 58.00 59.00 135.50 146.60 152.00 153.00 161.00 162.30	1.50 1.50 1.00 1.00 1.10 1.00 1.50 1.00 1.00 1.00 1.00 1.00 1.10 1.00 1.10 1.00 1.10 1.00 1.10 1.30	0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02

2.18000g

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
HOLE No.: MC97-28

Page 2

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS		Au g/t
					TO	WIDTH	
		fracturing continues.	5117	162.30	163.80	1.50	0.02
			5118	163.80	164.80	1.00	0.02
			5119	166.70	167.90	1.20	0.02
		113.0-139.0: Alteration intensity increases down hole but is patchy as pale green bleaching around fractures and locally pervasive. Silicification decreases locally. Unit becomes medium grained. Pyrite <1% generally; 5-8% 134.9-135.1m.	5120	167.90	168.90	1.00	0.02
			5121	173.00	174.50	1.50	0.02
			5122	174.50	176.00	1.50	0.02
			5123	176.00	177.50	1.50	0.02
			5124	209.00	210.00	1.00	0.02
			5125	210.00	211.50	1.50	0.02
		139.0-166.8: Unit becomes paler green with increase in alteration bleaching, more areas of pervasive alteration increased fracturing in net pattern. Selvages contain calcite and pyrrhotite. Unit is increasingly magnetic due to pyrrhotite. Minor disseminated pyrrhotite outside of selvages. Pyrite to 5% over 15cm, 160-166.8m.	5126	211.50	212.50	1.00	0.02
			5127	221.00	222.50	1.50	0.02
			5128	229.10	230.10	1.00	0.02
			5129	232.00	233.00	1.00	0.02
			5130	233.00	234.50	1.50	0.02
			5131	236.50	237.50	1.00	0.02
			5132	237.50	238.00	0.50	0.02
		166.8-180.0: Unit is more intensely altered with wider section of pervasive bleaching with some quartz knots and veins. Pyrite to 5% locally as disseminations, pyrrhotite along fracture planes. Unit calcitic moderately siliceous. Weak foliation at 169.0 at 68 degrees to core axis.					
		180.0-209.0: Alteration decreases to patchy fracture related and local 10-20cm pervasive. Minor quartz veining.					
		186.8-188.1: Flow breccia, fragments to 2cm variably altered.					
		209.0-238.0: Alteration increases as fracture related and pervasive saussuritization unit colour is highly variable as dark green, pale epidote green, and locally reddish due to hematite. Unit becomes weakly to moderately foliated at 70 degrees to core axis. Pyrite is 1-2% locally 5%.					
		Lower contact 237.5-238.0 possibly interflow sediment, 5-8% pyrite foliated 78 degrees to core axis.					
238.0	248.8	(2a, Ep, mag, Py 1-2%) <b>Mafic Volcanic-Basalt</b>					

HOLE No: MC97-28



# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
 HOLE No.: MC97-28

Page 3

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS		Au g/t
					TO	WIDTH	
		Medium grained, dark green to locally epidote green, highly crushed, and fractured, weak to moderately magnetic over 10-15cm. Pyrite 1-2%.					
248.8	254.0	(2a, FeT, sil, Py 1-2%)	5133	248.80	250.00	1.20	0.02
		<b>Mafic Volcanic-Basalt FeT</b>	5134	250.00	251.50	1.50	0.02
		Fine grained, dark green, possible siliceous ultramafic. Unit is silicified, weakly carbonated and moderately to strongly magnetic. Pyrite 1-2% to local (5cm) sections of 5-8%	5135	251.50	253.00	1.50	0.02
254.0		END OF HOLE					

### DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
52.00	-43.00	180.00
150.00	-40.00	180.00
206.00	-39.00	180.00
254.00	-38.00	180.00

HOLE No: MC97-28

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)

HOLE No.: MC97-29

Collar Eastings: 8750.00

Collar Northings: 5825.00

Collar Elevation: 0.00

Grid: MAIN

NQ CORE STORED BATTLE MOUNTAIN STORAGE TIMMINS

Collar Inclination: -45.00

Grid Bearing: 180.00

Final Depth: 200.00 metres

DRILLED BY: NOREX DRILLING, TIMMINS

CASING LEFT IN HOLE

Logged by: R. Calhoun

Date: NOV 4- NOV 6, 1997

Down-hole Survey: ACID

DATES LOGGED NOV4-NOV 6, 1997

DRILLED ON: P1159637

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS		
					TO	WIDTH	Au g/t
0.0	15.0	(OVB) <b>Overburden/Casing</b>					
15.0	44.0	(2a, px, py, ep) <b>Mafic Volcanic-Basalt</b> Fine grained, dark green, massive mafic volcanics. The unit is cut by veins of feldspathic, pyroxene veins with calcite. Feldspar is white, while pyroxene reach 4mm in size. Veining is at generally shallow angles 15-25 degrees to core axis as at 17-19 meters, etc. Basalt is variably magnetic moderate to strong. Pyrite is minor as fine disseminations. Minor epidote.					
44.0	200	(2/6a, bi, mag) <b>Mafic Intrusive-Basalt</b> Unit is a mixed zone of basalt and pyroxenite. The pyroxenite sections contain coarse pyroxene crystals and aggregates to 1 inch in diameter and biotite unit is dark green, highly magnetic generally except in area of quartz/feldspar and calcitic veining. These veining areas are variable in colour from white to mixture of green and white to pink. Sulfide content as pyrite is 1-2% generally but can exceed 5% over 10-25cm. Basaltic sections (may be fine pyroxenite) are dark green, fine grained and have no discernible pyroxene crystals. These sections are also magnetic, from weak to locally strong.	5136 5137 5138 5139 5140 5141 5142 5143 5144 5145 5146 5147 5148	52.30 53.80 54.80 56.40 60.70 70.00 86.00 87.20 88.60 89.90 98.80 99.90 101.00 102.40 109.30	53.80 54.80 55.50 57.40 61.70 71.50 87.20 88.60 89.90 99.90 101.00 102.40 110.30	1.50 1.00 0.70 1.00 1.00 1.50 1.20 1.40 1.30 1.10 1.10 1.40 1.40 1.00	N.A. 0.02 0.02 0.02 0.12 0.02 0.06 0.10 0.06 0.02 0.02 0.12 0.12 0.02
		98.8-102.4- Blue grey, fine grained, foliated 60 degrees to core axis, minor pyrite.					
		109.1-111.2- Blue grey foliated, minor pyrite, calcite.					
		135.0-200.0- Sections 2-5 meters of very coarse aggregates of pyroxene, biotite, minor calcite. Pyrite nil to trace.					

2.13000

# Battle Mountain Gold

## DIAMOND DRILL LOG

PROPERTY: Mahoney Creek (507)  
 HOLE No.: MC97-29

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	ASSAYS TO	WIDTH	Au g/t
200.0		END OF HOLE					
DOWN-HOLE SURVEY DATA							
		DEPTH	INCLINATION	BEARING			
		200.00	-38.00	180.00			



CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57221.0 ( COMPLETE )

PROJECT: 507  
DATE PRINTED: 1-MAY-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au G/T
1221		0.31
1222		1.70
1223		0.25
1224		0.08
1225		<0.03
1226		<0.03
1227		0.03
1228		<0.03
1229		0.07
1230		0.10
1231		0.78
1232		0.19
1233		0.51
1234		<0.03
1235		<0.03
1236		0.18
1237		0.19
1238		0.90

57221.0  
 1997



CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57224.0 ( COMPLETE )

PROJECT: 507  
DATE PRINTED: 5-MAY-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au G/T
------------------	------------------	-----------

1239		0.03
1240		0.04
1241		0.30
1242		0.07
1243		0.05

1244		<0.03
1245		<0.03
1246		<0.03
1247		<0.03
1248		<0.03

1249		<0.03
1250		<0.03
1251		<0.03
1252		<0.03
1253		<0.03

1254		<0.03
1255		0.03
1256		<0.03
1257		<0.03
1258		<0.03

1259		0.03
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ITS - Bondar Clegg

5450 Canotek Road Unit 47-50, Ottawa, Ontario, K1J 9G5  
Tel: (613) 749-2220, Fax: (613) 749-7170



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CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57228.0 ( COMPLETE )

PROJECT: 507  
DATE PRINTED: 5-MAY-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au G/T
------------------	------------------	-----------

1260		<0.03
1261		0.09
1262		<0.03
1263		<0.03
1264		<0.03

1265		<0.03
1266		<0.03
1267		0.09
1268		<0.03
1269		<0.03

1270		0.05
1271		<0.03
1272		<0.03
1273		<0.03
1274		<0.03

1275		0.03
1276		<0.03
1277		<0.03
1278		<0.03
1279		<0.03

1280		<0.03
1281		<0.03
1282		<0.03
1283		<0.03
1284		<0.03

1285		<0.03
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CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57232.0 ( COMPLETE )

PROJECT: 507  
DATE PRINTED: 5-MAY-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au G/T
------------------	------------------	-----------

1286		<0.03
1287		<0.03
1288		<0.03
1289		<0.03
1290		<0.03

1291		<0.03
1292		<0.03
1293		<0.03
1294		<0.03
1295		<0.03



CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57236.0 ( COMPLETE )

PROJECT: 507  
DATE PRINTED: 9-MAY-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au G/T
------------------	------------------	-----------

1296		<0.03
1297		<0.03
1298		<0.03
1299		0.04
1300		<0.03

1301		<0.03
1302		<0.03
1303		<0.03
1304		<0.03
1305		<0.03

1306		<0.03
1307		<0.03
1308		<0.03
1309		<0.03
1310		<0.03

1311		<0.03
1312		<0.03
1313		<0.03





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CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57242.0 ( COMPLETE )

PROJECT: 507  
DATE PRINTED: 7-MAY-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU G/T
------------------	------------------	-----------

1314		<0.03
1315		<0.03
1316		0.17
1317		0.53
1318		<0.03

1319		<0.03
1320		<0.03
1321		0.03
1322		0.10
1323		<0.03

1324		0.03
1325		0.05
1326		0.03

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CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57244.0 ( COMPLETE )

PROJECT: 507  
DATE PRINTED: 12-MAY-97      PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au G/T
1327		0.03
1328		0.04



CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57248.0 ( COMPLETE )

PROJECT: 507  
DATE PRINTED: 15-MAY-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au G/T
------------------	------------------	-----------

1329		0.29
1330		5.91
1331		0.11
1332		0.06
1333		0.04

1334		0.05
1335		<0.03
1336		<0.03
1337		<0.03
1338		<0.03

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CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57248.1 ( COMPLETE )

PROJECT: 507  
DATE PRINTED: 15-MAY-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AuGrav G/T
------------------	------------------	---------------

1330		4.11
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CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57250.0 ( COMPLETE )

PROJECT: 507  
DATE PRINTED: 14-MAY-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au G/T
1339		0.05
1340		<0.03
1341		0.04
1342		0.03
1343		<0.03
1344		<0.03
1345		<0.03
1346		<0.03
1347		<0.03
1348		<0.03
1349		<0.03
1350		<0.03
1351		<0.03
1352		<0.03
1353		0.03
1354		<0.03

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CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57252.0 ( COMPLETE )

PROJECT: 507  
DATE PRINTED: 14-MAY-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au G/T
------------------	------------------	-----------

1355		<0.03
1356		0.07
1357		<0.03
1358		<0.03
1359		0.10

1360		<0.03
1361		<0.03
1362		<0.03
1363		<0.03
1364		0.05

1365		0.04
1366		<0.03
1367		<0.03
1368		<0.03
1369		<0.03

1370		<0.03
1371		0.05
1372		<0.03

ITS - Bondar Clegg

5450 Canotek Road Unit 47-50, Ottawa, Ontario, K1J 9G5  
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CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57256.0 ( COMPLETE )

PROJECT: 507  
DATE PRINTED: 17-MAY-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au G/T
------------------	------------------	-----------

1373		<0.03
1374		0.09
1375		<0.03
1376		<0.03
1377		0.11

1378		0.19
1379		0.11
1380		0.12
1381		<0.03
1382		<0.03

1383		0.05
1384		<0.03
1385		<0.03
1386		<0.03
1387		<0.03

1388		<0.03
1389		0.05
1390		<0.03
1391		<0.03
1392		<0.03

1393		<0.03
1394		<0.03
1395		<0.03
1396		<0.03
1397		<0.03

1398		<0.03
1399		<0.03
1400		<0.03
1401		<0.03
1402		<0.03

1403		0.09
1404		<0.03
1405		<0.03
1406		<0.03
1407		<0.03

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CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57261.0 ( COMPLETE )

PROJECT: 507  
DATE PRINTED: 16-MAY-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au G/T
1408		0.04
1409		<0.03
1410		<0.03
1411		0.08
1412		0.58
1413		0.05
1414		<0.03
1415		<0.03
1416		<0.03
1417		<0.03
1418		<0.03
1419		<0.03
1420		<0.03
1421		<0.03
1422		<0.03
1423		<0.03
1424		0.05
1425		<0.03
1426		<0.03
1427		0.06
1428		<0.03
1429		<0.03
1430		<0.03
1431		<0.03

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CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57263.0 ( COMPLETE )

PROJECT: 507  
DATE PRINTED: 17-MAY-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au G/T
------------------	------------------	-----------

1432		<0.03
1433		0.05
1434		<0.03
1436		0.04
1437		0.10

1438		0.04
1439		0.12
1440		0.11
1441		0.05
1442		0.08

1443		0.30
1444		0.13
1445		0.08
1446		0.06
1447		0.11

1448		0.08
1449		0.04
1450		<0.03
1451		0.04
1452		<0.03

1453		<0.03
1454		<0.03
1455		<0.03
1456		0.43



CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57264.0 ( COMPLETE )

PROJECT: 507  
DATE PRINTED: 18-MAY-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au G/T
------------------	------------------	-----------

1457		0.03
1458		<0.03
1459		<0.03
1460		<0.03
1461		<0.03

1462		<0.03
1463		<0.03
1464		<0.03
1465		0.07
1466		<0.03

1467		<0.03
1468		<0.03
1469		<0.03
1470		<0.03
1471		<0.03

1472		<0.03
1473		<0.03
1474		<0.03
1475		0.83
1476		0.06

1477		0.04
1478		<0.03

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CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57266.0 ( COMPLETE )

PROJECT: 507  
DATE PRINTED: 18-MAY-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au G/T
------------------	------------------	-----------

1479		0.07
1480		<0.03
1481		<0.03
1482		<0.03
1483		0.35

1484		0.09
1485		<0.03
1486		<0.03
1487		<0.03
1488		<0.03

1489		<0.03
1490		<0.03
1491		<0.03
1492		<0.03
1493		<0.03

1494		<0.03
1495		<0.03
1496		<0.03

ITS - Bondar Clegg

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CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57267.0 ( COMPLETE )

PROJECT: 507  
DATE PRINTED: 18-MAY-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au G/T
1497		0.11
1498		<0.03

ITS - Bondar Clegg

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CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57279.0 ( COMPLETE )

PROJECT: 507  
DATE PRINTED: 28-MAY-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au G/T
------------------	------------------	-----------

1501		0.08
1502		<0.03
1503		<0.03
1504		<0.03
1505		<0.03

1506		<0.03
1507		<0.03
1508		<0.03
1509		<0.03
1510		0.04

1511		<0.03
1512		<0.03
1513		<0.03
1514		<0.03
1515		<0.03

1516		<0.03
1517		<0.03
1518		0.09
1519		<0.03
1520		<0.03

1521		<0.03
1522		<0.03
1523		<0.03
1524		<0.03
1525		<0.03

1526		<0.03
1527		0.04
1528		0.14



CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57782.0 ( COMPLETE )

PROJECT: 507  
DATE PRINTED: 17-OCT-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au G/T
---------------	---------------	--------

1544		<0.03
1545		<0.03
1546		<0.03
1547		<0.03
1548		<0.03

1549		<0.03
1550		<0.03
1551		<0.03
1552		<0.03
1553		<0.03

1554		<0.03
1555		<0.03
1556		<0.03
1557		<0.03
1558		<0.03

1559		<0.03
1560		<0.03
1561		<0.03
1562		<0.03
1563		<0.03

1564		<0.03
1565		<0.03
1566		<0.03
1567		<0.03
1568		<0.03

1569		<0.03
1570		<0.03
1571		<0.03
1572		<0.03
1573		<0.03

1574		<0.03
1575		<0.03
1576		0.25



CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57792.0 ( COMPLETE )

PROJECT: 507  
DATE PRINTED: 22-OCT-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au G/T
---------------	---------------	--------

1577		0.04
1578		<0.03
1579		<0.03
1580		<0.03
1581		<0.03

1582		<0.03
1583		<0.03
1584		<0.03
1585		<0.03
1586		0.04

1587		<0.03
1588		<0.03
1589		<0.03
1590		<0.03
1591		<0.03

1592		<0.03
1593		<0.03
1594		<0.03
1595		<0.03
1596		<0.03

1597		<0.03
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CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57793.0 ( COMPLETE )

PROJECT: 507  
DATE PRINTED: 21-OCT-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au G/T
------------------	------------------	-----------

1598		<0.03
1599		<0.03
1600		<0.03
1101		<0.03
1102		<0.03

1103		<0.03
1104		<0.03
1105		<0.03
1106		<0.03
1107		<0.03

1108		<0.03
1109		0.08
1110		0.04
1111		<0.03
1112		<0.03

1113		<0.03
1114		<0.03





CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: 197-57805.0 ( COMPLETE )

DATE RECEIVED: 21-OCT-97

PROJECT: 507

DATE PRINTED: 24-OCT-97

PAGE 1 DE 3

SAMPLE NUMBER	ELEMENT UNITS	AU G/T
1115		0.07
1116		<0.03
1117		0.24
1118		0.09
1119		0.37
1120		1.28
1121		1.29
1122		0.65
1123		1.64
1124		0.04
1125		<0.03
1126		0.11
1127		1.42
1128		0.11
1129		1.20
1130		0.18
1131		<0.03
1132		0.20
1133		<0.03
1134		<0.03
1135		0.11
1136		0.06
1137		<0.03
1138		<0.03
1139		<0.03
1140		<0.03
1141		0.26
1142		0.20
1143		1.58
1144		<0.03





CLIENT: BATTLE MOUNTAIN CANADA LTD.  
 REPORT: T97-57820.0 ( COMPLETE )

DATE RECEIVED: 24-OCT-97

PROJECT: 507

DATE PRINTED: 27-OCT-97

PAGE 1 DE 3

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB
------------------	------------------	-------------

1159		6
1160		8
1161		6
1162		16
1163		10

1164		9
1165		11
1166		<5
1167		13
1168		11

1169		9
1170		7
1171		<5
1172		8
1173		20

1174		6
1175		7
1176		6



CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57834.0 ( COMPLETE )

DATE RECEIVED: 30-OCT-97

PROJECT: 507

DATE PRINTED: 3-NOV-97

PAGE 1 DE 3

SAMPLE NUMBER	ELEMENT UNITS	Au G/T
------------------	------------------	-----------

1177		<0.03
1178		<0.03
1179		<0.03
1180		<0.03
1181		<0.03

1182		<0.03
1183		<0.03
1184		<0.03
1185		<0.03
5101		0.17

5102		<0.03
5103		0.26
5104		0.07
5105		<0.03
5106		<0.03

5107		<0.03
5108		0.73
5109		<0.03
5110		0.28



CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57843.0 ( COMPLETE )

DATE RECEIVED: 31-OCT-97

PROJECT: 507

DATE PRINTED: 3-NOV-97

PAGE 1 DE 3

SAMPLE NUMBER	ELEMENT UNITS	Au G/T
1186		<0.03
1187		0.04
1188		0.07
1189		0.04
1190		<0.03



CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57853.0 ( COMPLETE )

DATE RECEIVED: 04-NOV-97

PROJECT: 507

DATE PRINTED: 10-NOV-97

PAGE 1 DE 3

SAMPLE NUMBER	ELEMENT UNITS	Au G/T
------------------	------------------	-----------

1191		<0.03
1192		<0.03
1193		<0.03
1194		<0.03
1195		<0.03

1196		<0.03
1197		<0.03
1198		<0.03
1199		<0.03
1200		<0.03

5111		<0.03
5112		<0.03
5113		<0.03
5114		<0.03
5115		<0.03

5116		<0.03
5117		<0.03
5118		<0.03
5119		<0.03
5120		<0.03

5121		<0.03
5122		<0.03
5123		<0.03



CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57855.0 ( COMPLETE )

DATE RECEIVED: 05-NOV-97

PROJECT: 507

DATE PRINTED: 10-NOV-97

PAGE 1 DE 3

SAMPLE NUMBER	ELEMENT UNITS	Au G/T
------------------	------------------	-----------

5124		<0.03
5125		<0.03
5126		<0.03
5127		<0.03
5128		<0.03

5129		<0.03
5130		0.05
5131		<0.03
5132		<0.03
5133		<0.03

5134		<0.03
5135		<0.03

*Mr Berger*



CLIENT: BATTLE MOUNTAIN CANADA LTD.  
REPORT: T97-57861.0 ( COMPLETE )

DATE RECEIVED: 06-NOV-97

PROJECT: 507

DATE PRINTED: 10-NOV-97

PAGE 1 DE 3

SAMPLE NUMBER	ELEMENT UNITS	Au G/T
------------------	------------------	-----------

5136		<0.03
5137		<0.03
5138		<0.03
5139		<0.03
5140		0.12

5141		<0.03
5142		0.06
5143		0.10
5144		0.06
5145		<0.03

5146		<0.03
5147		0.12
5148		<0.03





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) <i>0976.00765</i>
Assessment Files Research Imaging

Personal information collected on this form is obtained under the authority of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, the information is a  
Questions about this collecti  
933 Ramsey Lake Road, Sudt



42A05NE0169 2.18006 THORNELOE

Instructions: - For wo  
- Please

900 orm 0240.

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

Name <i>Battle Mountain Canada Ltd</i>	Client Number <i>143550</i>
Address <i>Po Box 1205, 60 Shicky St. South</i>	Telephone Number <i>(705) 268-9600</i>
<i>Timmins, Ont. P4N <del>8R4</del> 7J5</i>	Fax Number <i>(705) 268-9572</i>
Name <i>WJK</i>	Client Number
Address	Telephone Number
	Fax Number

*2.18006*

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

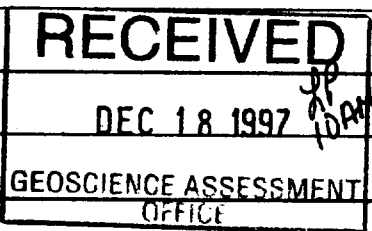
Geotechnical: prospecting, surveys, assays and work under section 18 (regs)       Physical: drilling, stripping, trenching and associated assays       Rehabilitation

Work Type <i>Diamond Drilling - 004, 004 MC 97-18 to 29, 30350 m</i>	Office Use
	Commodity
	Total \$ Value of Work Claimed <i>199,175</i>
Dates Work Performed From <i>01 04 1997</i> To <i>30 11 1997</i>	NTS Reference
Global Positioning System Data (if available)	Mining Division <i>Porcupine</i>
Township/Area <i>Bristol/Conscallen/Onton/Thornloe</i>	Resident Geologist District <i>Timmins</i>
M or G-Plan Number <i>G3598/G3040/G3234/G3239</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.

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

Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number



4. Certification by Recorded Holder or Agent

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

Signature of Recorded Holder or Agent <i>[Signature]</i>	Date <i>Dec 17, 1997</i>
Agent's Address <i>Po Box 1205, 60 Shicky St. South, Timmins, Ont P4N 7J5</i>	Telephone Number <i>(705) 268-9600</i>
	Fax Number <i>(705) 268-9572</i>

*U. 1. 18/98*

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					
2					
3	See Attached				
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
Column Totals					

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

Signature of Recorded Holder or Agent Authorized in Writing Date Dec 17, 1997

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.

<b>For Office Use Only</b> Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

SCHEDULE FOR DECLARATION OF ASSESSMENT WORK ON MINING LAND

Work Transaction # EASTCAN97.063

09760.00965

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
1	P 0495307	19 ha	0.00		
2	P 0495308	24 ha	0.00		
3	P 0495309	25 ha	0.00		
4	P 0530884	1	0.00	400.00	
5	P 0583234	1	0.00	400.00	
6	P 0649963	1	0.00	400.00	
7	P 0649964	1	0.00	400.00	
8	P 0649965	1	0.00	281.00	
9	P 0757659	1	0.00	400.00	
10	P 0764945	1	0.00	400.00	
11	P 0916816	1	0.00	367.00	
12	P 0998383	1	0.00	281.00	
13	P 0998384	1	20,105.00	281.00	19,824.00
14	P 1159632	1	0.00	281.00	
15	P 1159633	1	45,453.00	281.00	12,721.00
16	P 1159634	1	29,623.00	281.00	29,342.00
17	P 1159635	1	0.00	281.00	
18	P 1159636	1	0.00	281.00	
19	P 1159637	1	12,249.00	281.00	11,968.00
20	P 1159638	1	0.00	281.00	
21	P 1159639	1	0.00	281.00	
22	P 1159640	1	911.00	281.00	630.00
23	P 1159641	1	0.00	281.00	
24	P 1159642	1	0.00	281.00	
25	P 1159643	1	0.00	281.00	
26	P 1176341	1	0.00	281.00	
27	P 1177807	1	0.00	281.00	
28	P 1177808	1	0.00	281.00	
29	P 1177809	1	0.00	281.00	
30	P 1177811	1	0.00	282.00	
31	P 1177814	1	0.00	282.00	
32	P 1177821	2	0.00	564.00	
33	P 1177822	1	0.00	282.00	
34	P 1177823	1	0.00	282.00	
35	P 1177824	1	0.00	282.00	
36	P 1177825	4	0.00	1,128.00	
37	P 1177826	2	0.00	564.00	
38	P 1177827	2	0.00	564.00	
39	P 1177828	6	0.00	1,692.00	
40	P 1177829	1	0.00	282.00	
41	P 1177830	2	0.00	564.00	
42	P 1177831	1	0.00	282.00	
43	P 1181409	1	0.00	136.00	
44	P 1181410	1	0.00	282.00	
45	P 1181413	1	0.00	282.00	
46	P 1181995	2	0.00	564.00	
47	P 1189214	1	0.00	282.00	

2.10000  
2.18006

**RECEIVED**  
DEC 18 1997  
GEOSCIENCE ASSESSMENT OFFICE



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

Work Type	Units of Work <small>Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.</small>	Cost Per Unit of work	Total Cost
Diamond Drilling	3035 metres	51.05/m	154932.00
Labour	132 man days	275.55/man day	36373.00
Assaying	511 samples (Au)	10.00/sample	5110.00
Associated Costs (e.g. supplies, mobilization and demobilization).			
			2,180.00
<b>RECEIVED</b>			
DEC 18 1997			
GEOSCIENCE ASSESSMENT OFFICE			
Transportation Costs			
Rental trucks & gas			2760.00
Food and Lodging Costs			
<b>Total Value of Assessment Work</b>			<b>199175.00</b>

**Calculations of Filing Discounts:**

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

$$\text{TOTAL VALUE OF ASSESSMENT WORK} \times 0.50 = \text{Total \$ value of worked claimed.}$$

**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, George J. Koleszar (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as Lands Manager (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

Signature 	Date Dec 17, 1997
---------------	----------------------

February 20, 1998

George J. Koleszar  
BATTLE MOUNTAIN CANADA LTD.  
P.O. BOX 1205  
60 Shirley St. South  
Timmins, ONTARIO  
P4N 7J5

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: 2.18006**

**Status**

**Subject: Transaction Number(s):** W9760.00765 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:** 2.18006

**Date Correspondence Sent:** February 20, 1998

**Assessor:** Steve Beneteau

---

<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W9760.00765	998384	BRISTOL, CARSCALLEN, DENTON, THORNELOE	Deemed Approval	February 20, 1998

**Section:**

16 Drilling PDRILL

**Correspondence to:**

Resident Geologist  
South Porcupine, ON

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

George J. Koleszar  
BATTLE MOUNTAIN CANADA LTD.  
Timmins, ONTARIO

Assessment Files Library  
Sudbury, ON

---

**REFERENCES**

**AREAS WITHDRAWN FROM DISPOSITION**

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

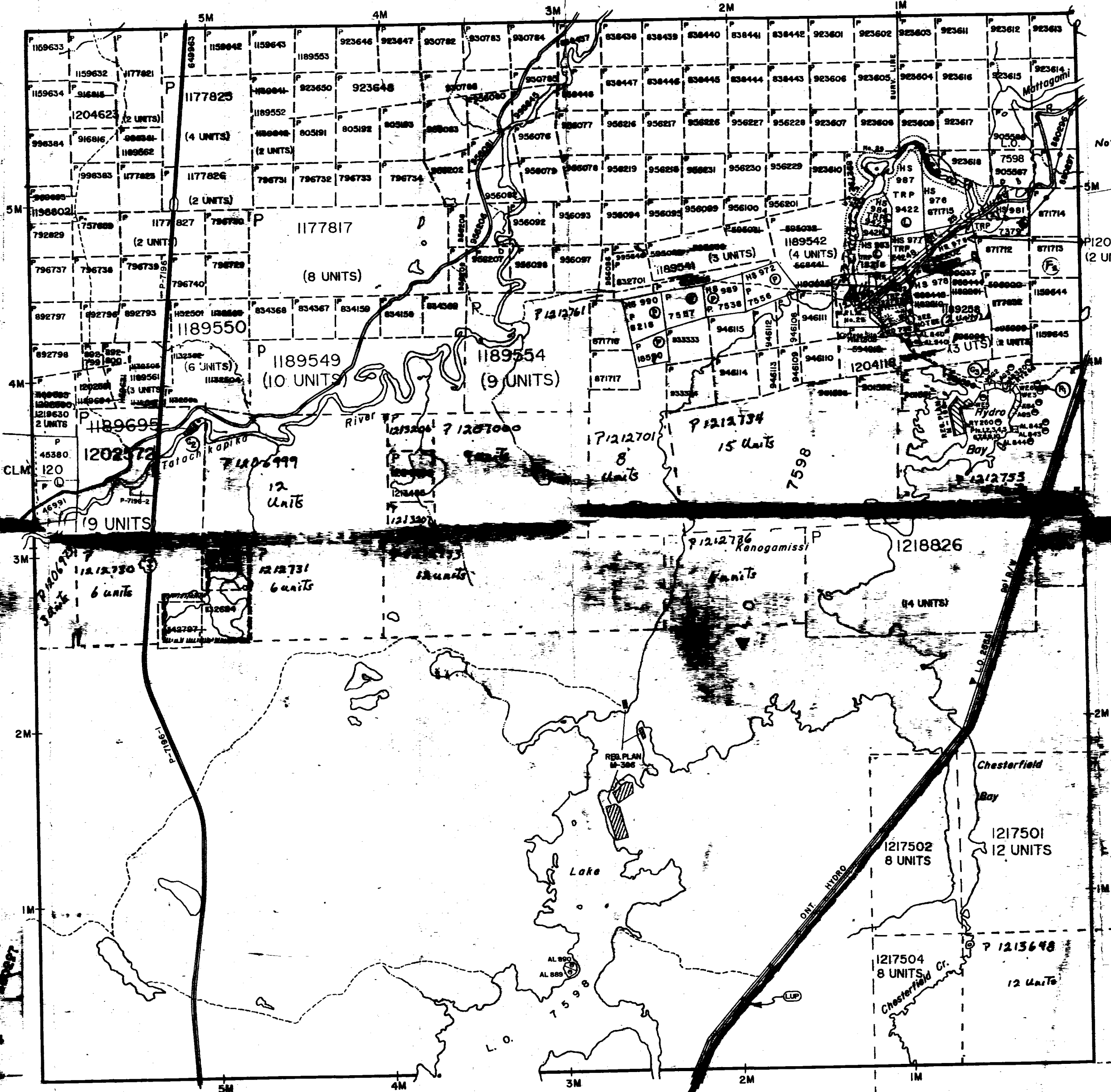
Description	Order No.	Date	Disposition	File
SEC. 43/70		17/5/72	S.R.O.	164584

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.

**SAND AND GRAVEL**

GRAVEL	FILE 143834
M.N.R. GRAVEL RESERVE	
M.N.R. GRAVEL PIT 258	FILE #467

2.18006 PDRILL



Note: See insert in lower left-hand corner for more detail around the dam and penstock area.

**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 MUSKIEG
- 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 OF COUNCIL	
RESERVATION	
CANCELLED	

RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1978, VESTED IN ORIGINAL PATENTEES BY THE PUBLIC LANDS ACT, R.S.O. 1978, CHAP. 380, SEC. 63, SUBSEC. 1.

- THIS TWP. SUBJECT TO FOREST ACTIVITIES IN 1994/795, FURTHER INFO AVAILABLE ON FILE.
- THIS TWP. SUBJECT TO FORESTACTIVITY IN 1995, FURTHER INFORMATION AVAILABLE ON FILE.

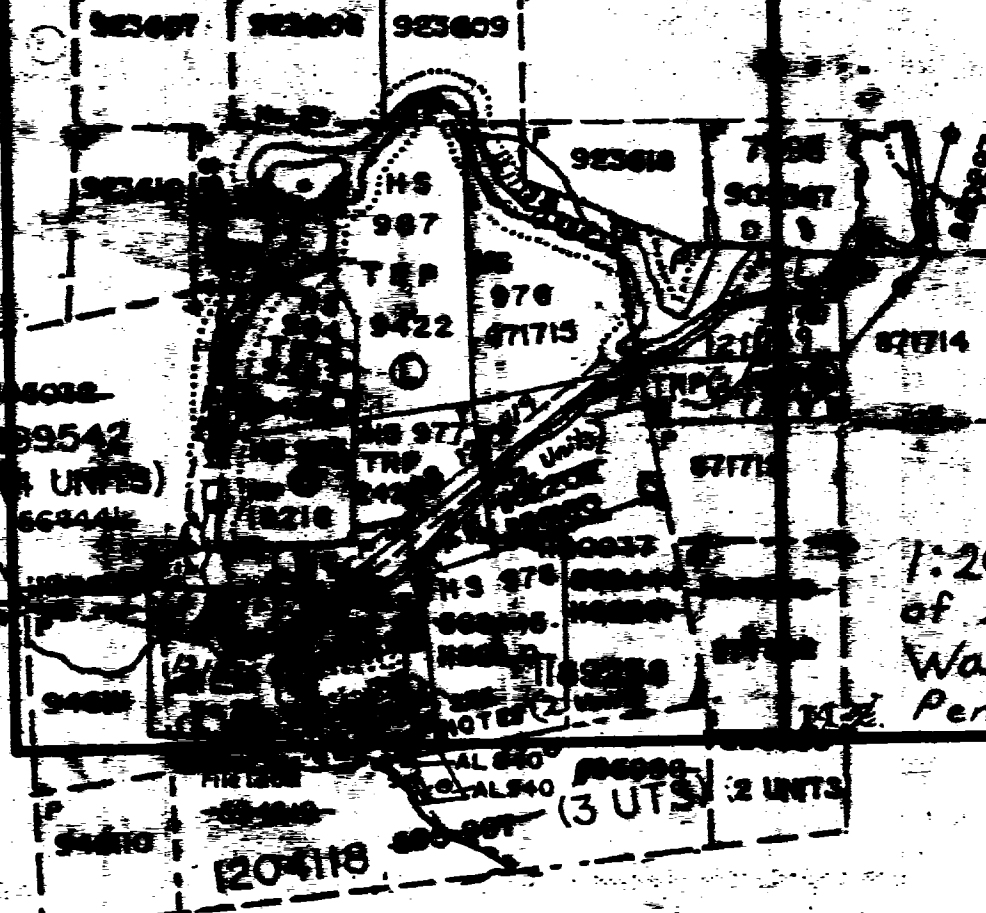
**NOTES**

Redirection for **Chief Ranger's Headquarters** site shown Map File: H0657

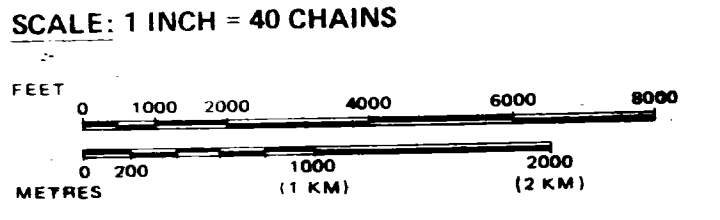
Flooding Rights on Kenogamissi Lk. & Mattagami R. are reserved to Ont. Hydro - L.O. 7598. File: 1163 vol 3

THE TOWNSHIP LIES WITHIN THE MUNICIPALITY OF THE CITY OF THORNHILL

APPLICATION PENDING UNDER PUBLIC LANDS ACT NOTICE RECEIVED 25-MAR-30 (GROWING SEASON)



1:20000 Plot of Area Around Waiwaitin Falls (Dam) and Penstock.



MAR 0 5 1998

TOWNSHIP  
 PROVINCIAL RECORDING OFFICE - SUDBURY  
**THORNELOE**  
 M.N.R. ADMINISTRATIVE DISTRICT  
 TIMMINS  
 MINING DIVISION  
 PORCUPINE  
 LAND TITLES / REGISTRY DIVISION  
 COCHRANE

Ministry of Natural Resources  
 Land Management Branch  
 Ontario

Date MARCH 1985  
 Number G-3229  
 ACTIVATED JULY 3, 1992 BY D.E.  
 CHECKED BY S.R.W.





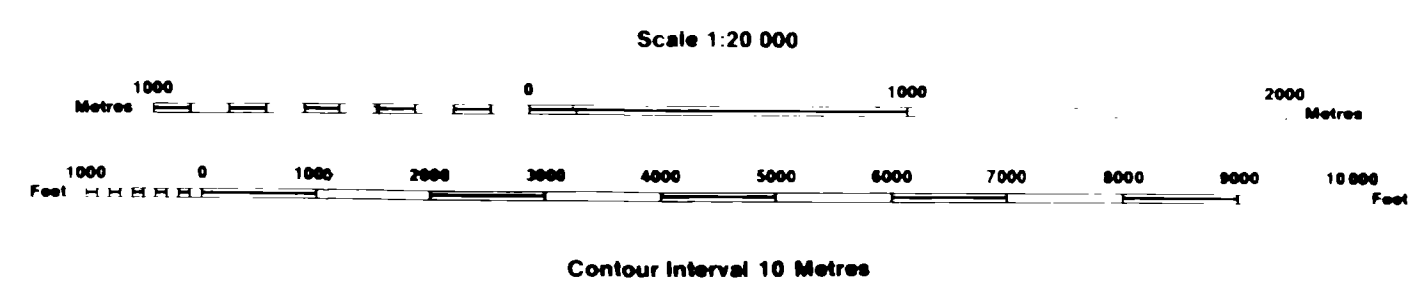


**INDEX TO LAND DISPOSITION**

PLAN  
 G-3040  
 TOWNSHIP

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

**CARSCALLEN**



**AREAS WITHDRAWN FROM DISPOSITION**

- MRO - Mining Rights Only
- SRO - Surface Rights Only
- M + S - Mining and Surface Rights

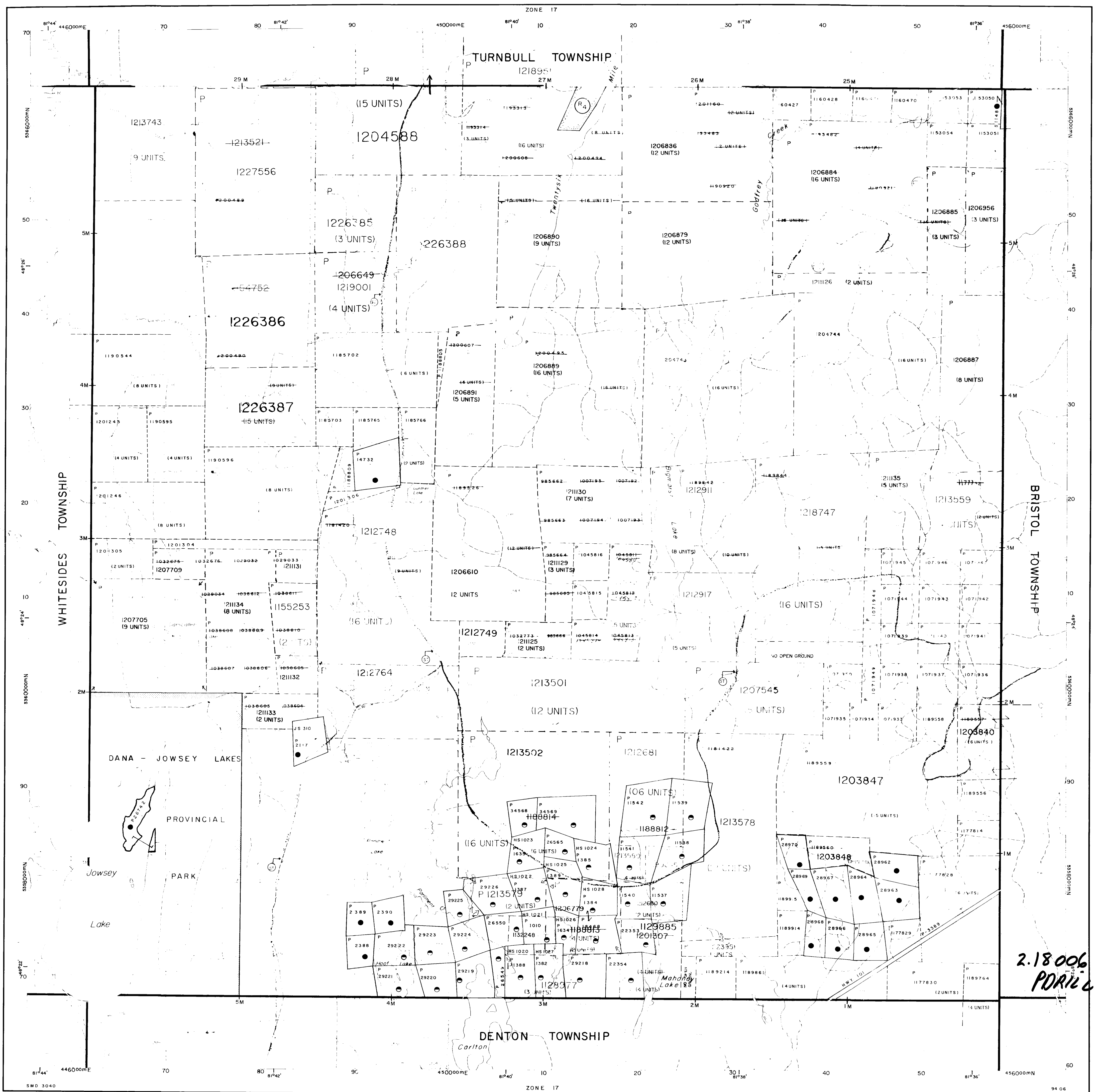
Description	Order No.	Date	Disposition	File
AGGREGATE PERMIT - NOTICE RECEIVED JUNE 14, 1955				

**SYMBOLS**

- Boundary
- Township, Meridian, Baseline
- Road allowance, surveyed
- shoreline
- Lot/Concession, surveyed
- unsurveyed
- Parcel, surveyed
- unsurveyed
- Right-of-way, road
- railway
- utility
- Reservation
- Cliff, Pit, Pile
- Contour
- Interpolated
- Approximate
- Depression
- Control point (horizontal)
- Flooded land
- Mine head frame
- Pipeline (above ground)
- Railway, single track
- double track
- abandoned
- Road, highway, county, township
- access
- trail, bush
- Shoreline (original)
- Transmission line
- Wooded area

**DISPOSITION OF CROWN LANDS**

- 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
- Cancelled
- Reservation
- Sand & Gravel



2.18006  
 PDR 12

G-3040

CARSCALLEN TWP.

G-3040



REFERENC

AREAS WITHDRAWN FROM DISPOSITIO

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

Description	Order No.	Date	Disposition	File No.
R1	15042775	FEB 1 '66	M+S	15042775
R2	DANA AND JOWSEY PARK RESERVATION			
R4	RESERVED FOR PUBLIC USE			
R5	SURFACE RIGHTS ONLY WITHDRAWN FROM PUBLIC LANDS BY ORDER IN COUNCIL 94/86 DATED 84/12/14 BY WHITE (SPUR) S.T.E.			

SAND AND GRAVEL

61	M.T.C.	PIT 427	FILE 12675
62	M.T.C.	PIT 1236	FILE 12675
63	M.T.C.	PIT 1470	FILE 12675
64	M.T.C.	PIT 1331	FILE 12675

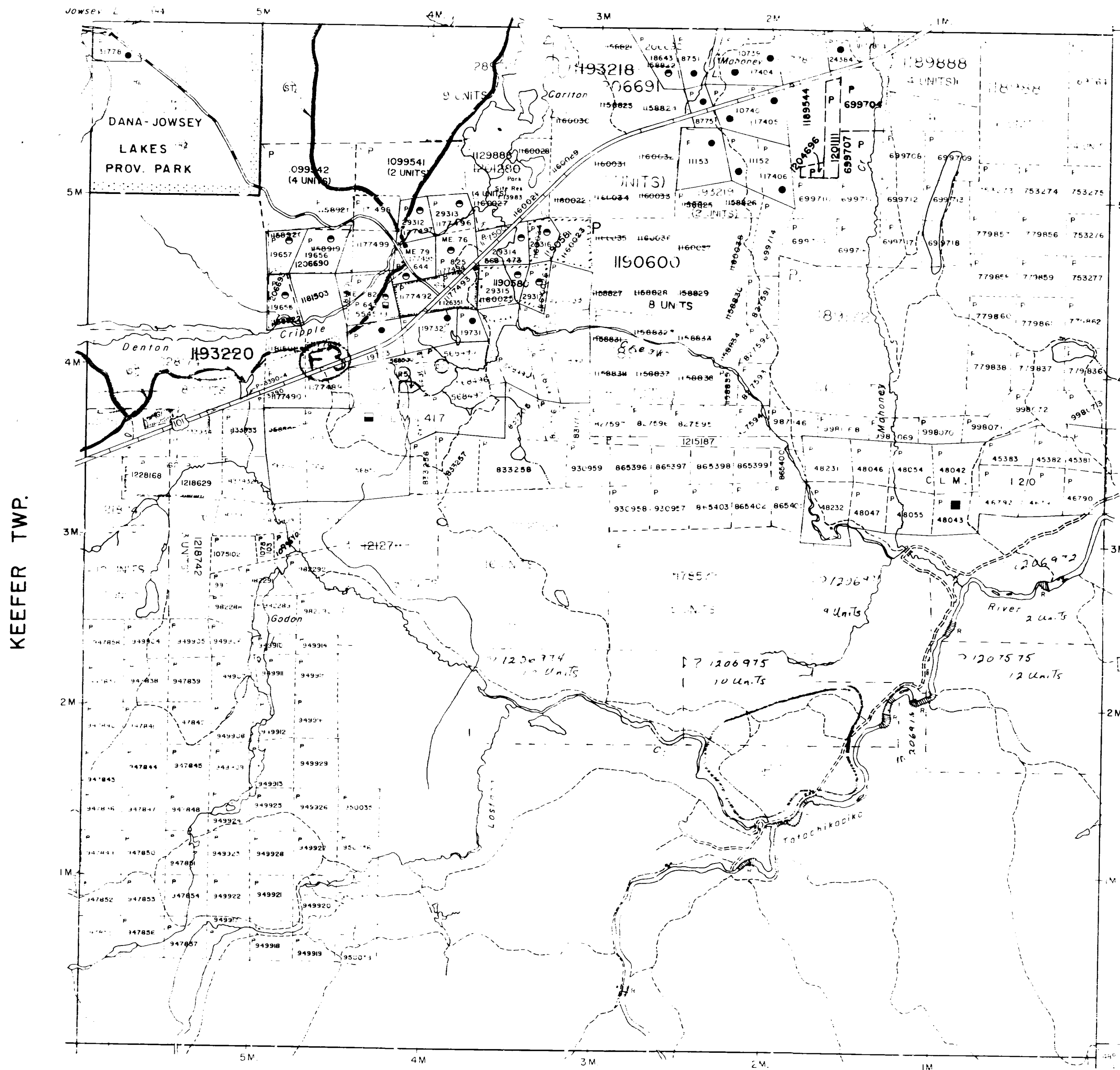
APPLICATION PENDING UNDER THE PUBLIC LANDS ACT  
NOTICE RECEIVED 92-DEC-21  
SNOWMOBILE TRAILS

THIS TWP SUBJECT TO FOREST ACTIVITY IN 1994/95  
FURTHER INFORMATION AVAILABLE ON FILE

THIS TWP SUBJECT TO FOREST ACTIVITY IN 1995/96  
FURTHER INFORMATION AVAILABLE ON FILE

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILY FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THE ONTARIO TO STATE MINING ADMINISTRATION HAS BEEN ADVISED OF THIS MAP BY THE MINING REGISTRY DIVISION OF THE MINISTRY OF NATURAL RESOURCES AND FORESTRY. FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON,

CARSCALLEN TWP.



2.18006  
PRILL

LEGEND

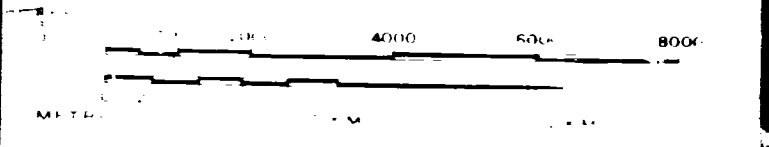
HIGHWAY AND ROUTE	
OTHER ROAD	
TRAIL	
SURVEYED LINE	
TOWNSHIP BOUNDARIES ETC.	
LOT, MAIN CLAIMS PARCELS ETC.	
UNSURVEYED LINE	
PARCEL BOUNDARY	
MINING CLAIM SET	
RAILWAY AND RIGHT OF WAY	
UTILITY LINE	
NON-PERENNIAL STREAM	
FLOODING OR FLOODING RIGHTS	
SUBDIVISION OR COMPOSITE PLAN	
RESERVATION	
ORIGINAL SHORELINE	
MARSH OR MUSKEL	
MIN.	
TRAVERSE MONUMENT	

DISPOSITION OF CROWN LANDS

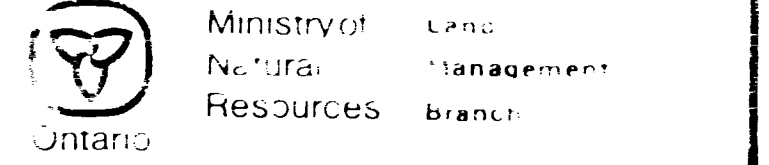
TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LEASE SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER-IN-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT R.S.O. 1970 CHAP 380 SEC 63 SUBSEC

SCALE 1 INCH = 40 CHAINS



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



Date: MAR 1997  
Name: G-3224

MAP SYMBOLLOGY


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
S.R.O.	164584			

MINING AND SURFACE RIGHTS WITHDRAWN FROM PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 35 OF THE MINING ACT R.S.O. 1990 ORDER NO. W-88/86 WR DATED 06-OCT-90

MINING AND SURFACE RIGHTS RE-OPENED TO PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 35 OF THE MINING ACT R.S.O. 1990 ORDER NO. O-P-22/92 NER DATED 92-AUG-01 (CLAIM NOS. P-49541 TO P-49548 INCL. P-45399, P-45400, P-479505 TO P-479506 INCL. AND P-48085 TO P-48087 INCL.)

MINING AND SURFACE RIGHTS WITHDRAWN FROM PROSPECTING, STAKING, SALE OR LEASE UNDER SECTION 35 OF THE MINING ACT R.S.O. 1990 ORDER NO. W-50/86 DATED 06-MAY-86

THIS TWP. SUBJECT TO FOREST ACTIVITY IN 1992/93. FURTHER INFORMATION AVAILABLE ON FILE.

MINING AND SURFACE RIGHTS RE-OPENED TO PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 35 OF THE MINING ACT R.S.O. 1990 ORDER NO. O-P-24/92 NER DATED 92-SEP-04 AT 7:00 A.M. EST. (CLAIM NOS. P-52826 TO P-52832 INCL. AND P-52839 TO P-52842 INCL.)

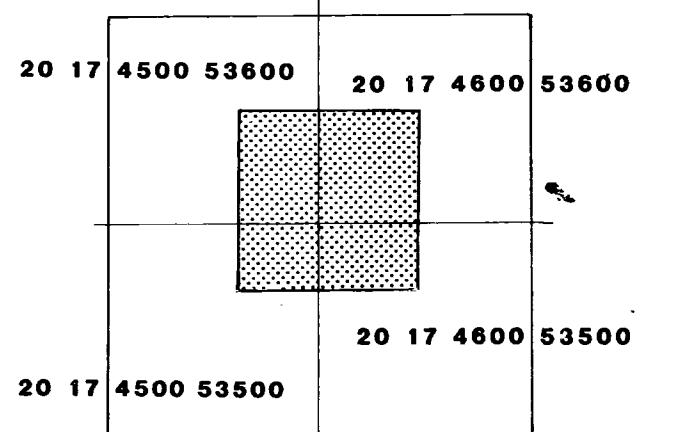
MINING AND SURFACE RIGHTS RE-OPENED TO PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 35 OF THE MINING ACT R.S.O. 1990 ORDER NO. O-P-29/92 NER DATED 92-NOV-02 AT 7:00 A.M. EST. (CLAIM NOS. P-45551 TO P-45553 INCL.)

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.

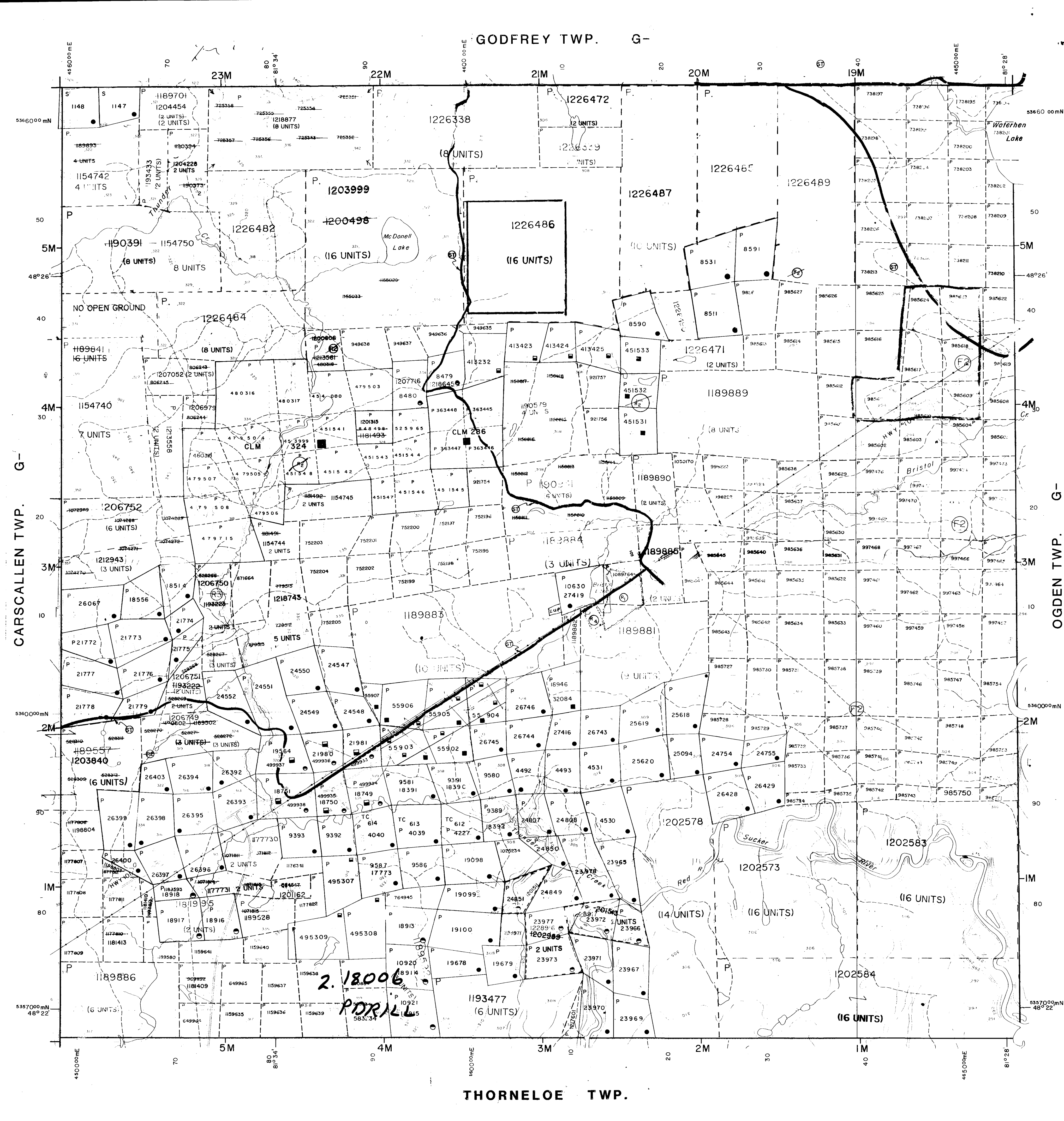
MINING AND SURFACE RIGHTS RE-OPENED TO PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 35 OF THE MINING ACT R.S.O. 1990 ORDER NO. O-P-30/92 NER DATED 92-NOV-02 AT 7:00 A.M. EST. (CLAIM NOS. P-48308 TO P-48309 INCL. AND P-48334)

KEY PLAN

For O.B.M. Map



not to scale



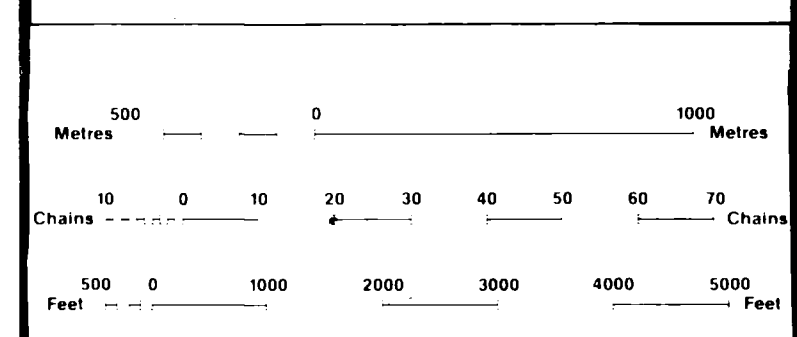
LEGEND

	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	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEES BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1



SCALE 1:20 000  
ZONE 17

APPLICATION FOR CROWN LAND UNDER THE PUBLIC LANDS ACT  
 NOTICE RECEIVED 92-DEC-21  
 SNOWMOBILE TRAILS

APPLICATION FOR CROWN LAND UNDER THE PUBLIC LANDS ACT  
 NOTICE RECEIVED 93-MAY-4  
 C&B EXCAVATION TOP SOIL HOLDING STORAGE ETC.

THIS TWP. SUBJECT TO FOREST ACTIVITY IN 1995/96.  
 AREAS DESIGNATED EXACTLY AS SUBMITTED BY MNR TIMMINS.

TOWNSHIP  
**BRISTOL**  
 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  
 ACTIVATED JULY 1992 BY D.C.  
 REVISED BY G.W.

Number  
**G-3998**

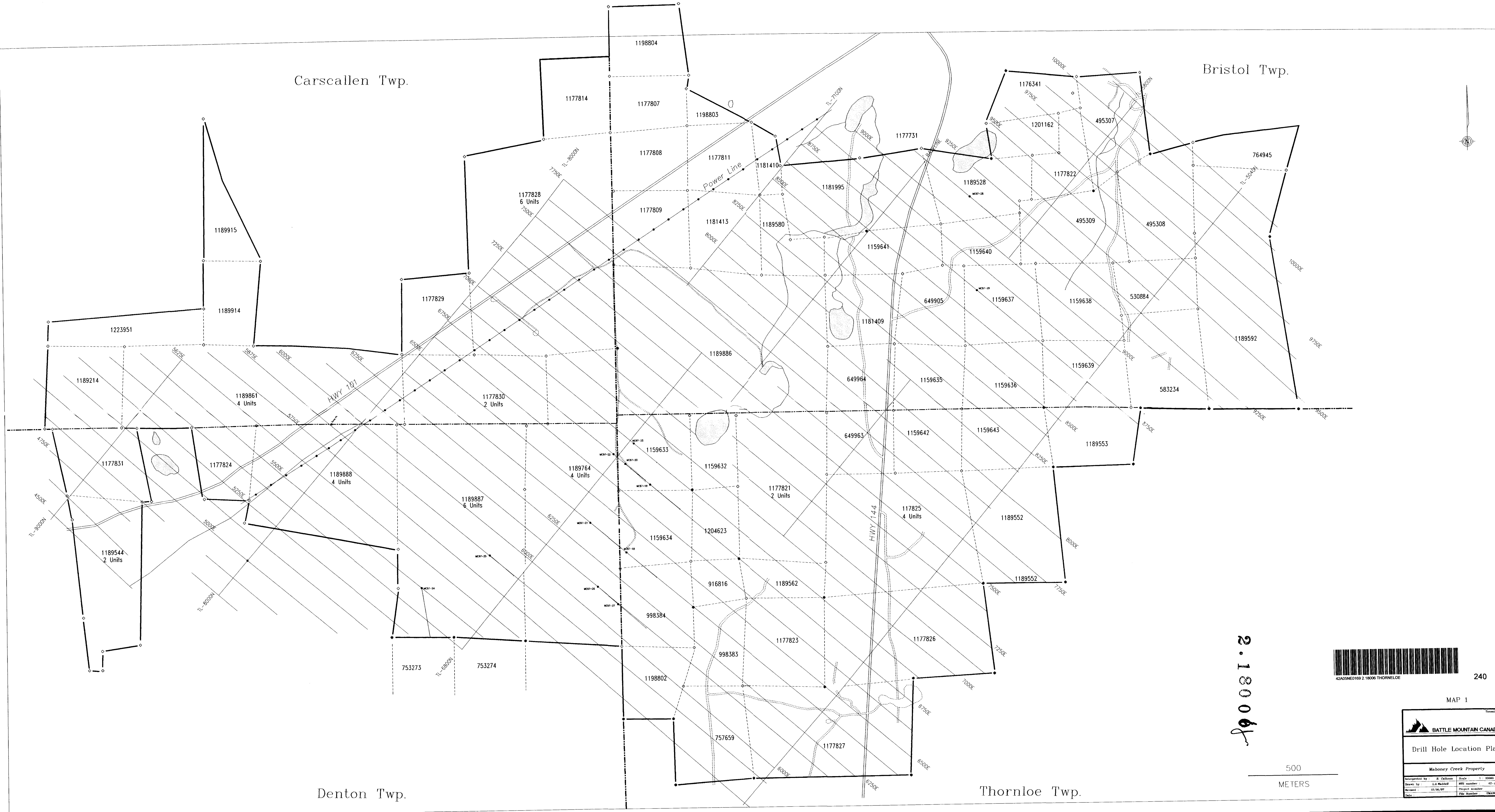


Carscallen Twp.

Bristol Twp.

Denton Twp.

Thornloe Twp.



2.18006



240

500  
METERS

MAP 1

**BATTLE MOUNTAIN CANADA**

Drill Hole Location Plan

Mahoney Creek Property

Intergraphed by	B. Collins	Scale	1:10000
Drawn by	L.A. Macdonald	PRR number	42-A-5
Revised	12/18/97	Project number	
Date		File number	240