

Porcupine Joint Venture  
Report on the 2005 Exploration Program  
Bell Creek Property  
Hoyle Township  
Timmins, Ont.

2.33987

November 30<sup>th</sup>, 2006

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## **2005 & 2006 Exploration Program**

### **1.1 Summary of Program**

A total of 11,469 meters in thirty-six (36) diamond drill holes were drilled on this project during the first half of 2005. These thirty-six holes are currently being submitted for assessment credit.

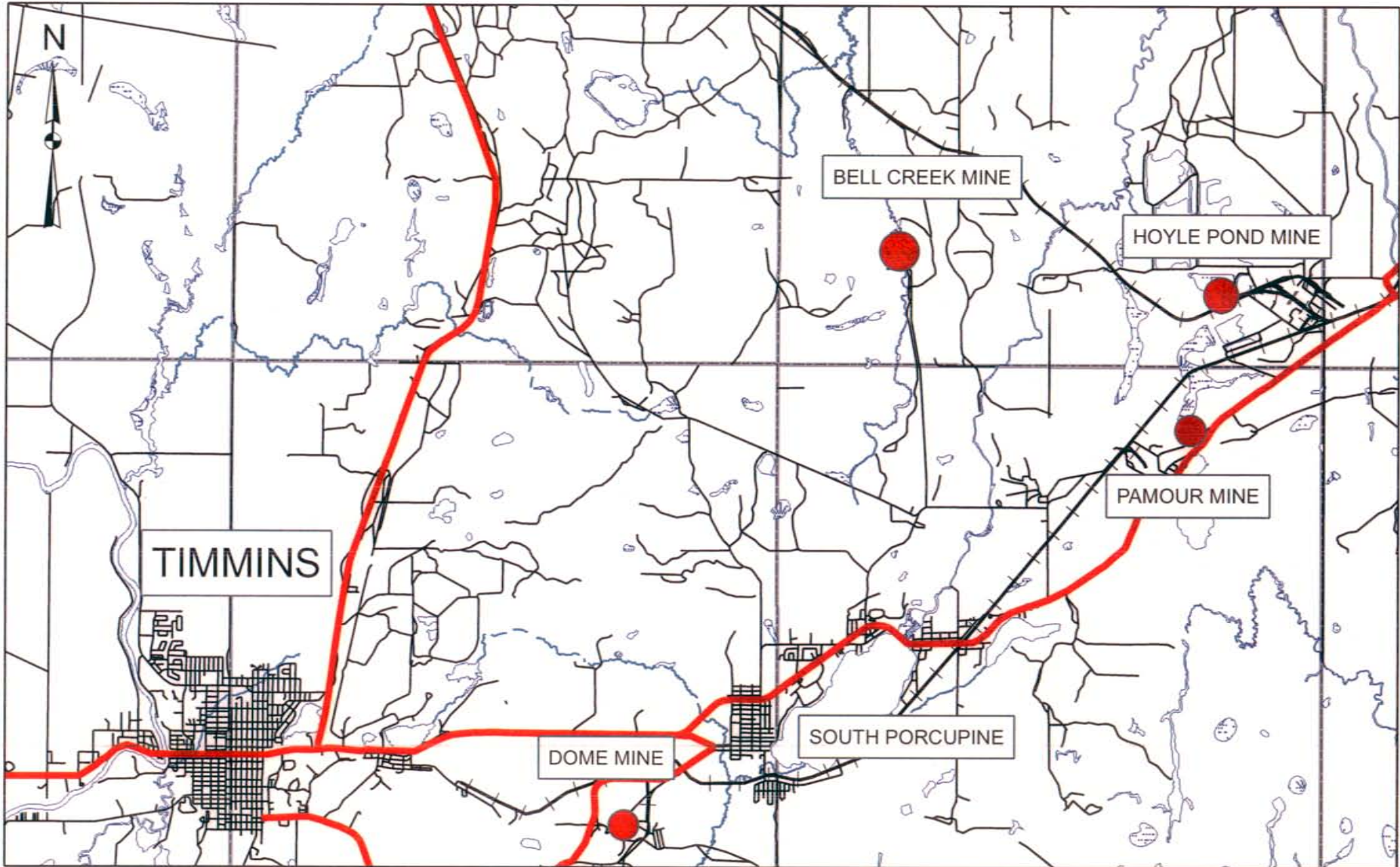
### **1.2 Mining Land, Location and Access**

The Bell Creek Mine is located about 5km west of the Hoyle Pond Mine, and is accessed through the Hoyle Pond Minesite. Refer to Figure 1. Bell Creek was operated by Canamax Resources from 1986 to 1991 and by Kinross Gold in 1993-1994.

Bell Creek, along with nearby Marhill deposit, is held by Goldcorp (51%) & Kinross (49%) through the Porcupine Joint Venture which was formed in July 2002.

The area covered by 2005 diamond drill programs is located between the previously mined North-A and Bell West Zones. A minor amount of the drill program was used to test the East Zones, and a few holes tested the North-A Zone at depth. The Bell Creek Mine was in operation from 1986 to 1994, and produced a total of about 576,000 tons at 6.63gpt Au for 112,739 ounces.

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0 1,000 2,000 4,000 6,000 8,000 Meters



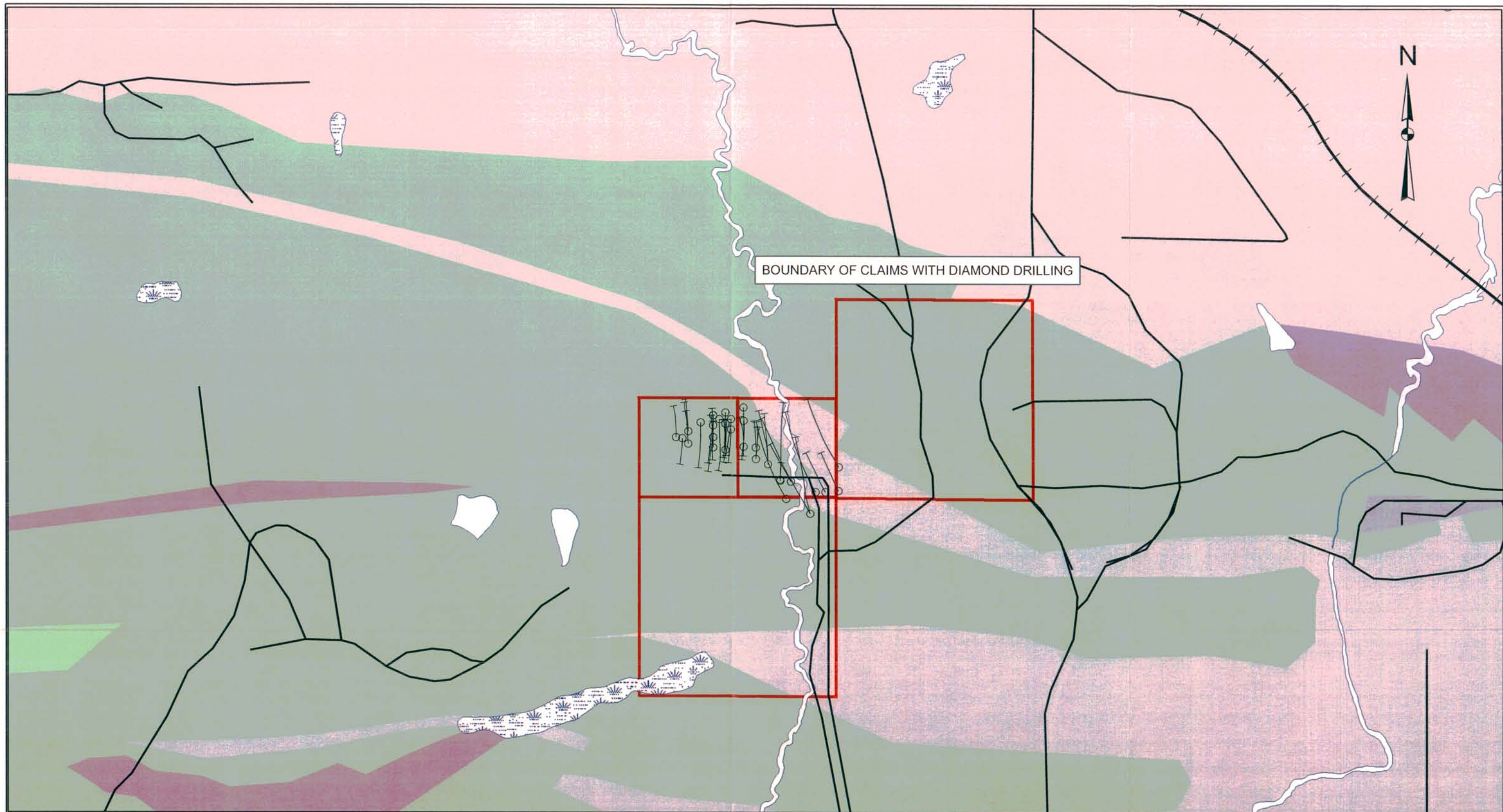
**goldcorp**  
CANADA LTD.

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Location: Timmins, ON

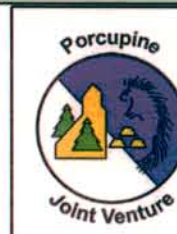
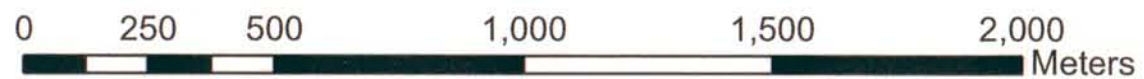
**Goldcorp Canada Ltd.**

Porcupine Joint Venture  
Bell Creek Project

**Figure 1: Location Map**



BOUNDARY OF CLAIMS WITH DIAMOND DRILLING



**goldcorp**  
CANADA LTD.

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Date: Nov 30th, 2006

Scale: 15 000

Location: Timmins, ON

**Goldcorp Canada Ltd.**

*Porcupine Joint Venture  
Bell Creek Project*

**Area of Diamond Drilling**

### 1.3 Personnel

The work was supervised by Peter Harvey, an exploration geologist with the Porcupine Joint Venture. All drill core was logged by W. Waychison under P. Harvey's supervision. Sampling of the drill core was carried out by Clyde Wakeford & Brad Norman under the supervision of Peter Harvey.

Peter Harvey  
Exploration Geologist  
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W. waychison, C. Wakeford & B. Norman  
Porcupine Joint Venture  
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P0N 1H0

### 1.4 Previous Work

The following is a brief summary of more recent mining activity on the Bell Creek Mine property.

Mineralization in the North A and Northeast zones at the Bell Creek Mine was discovered in 1980 and 1981 through a joint venture with Rosario Resources and Dupont Canada Exploration. The Bell Creek West Zone was discovered in 1989.

The Bell Creek Mine was operated by Canamax Resources from 1986 to 1991 and briefly by Kinross Gold in 1993-1994. The three compartment timbered shaft (bottom 280 meters) was kept on care and maintenance until late 2001, when the mine was allowed to flood.

The mine produced a total of 576,017 tons @0.196 opt Au (6.63gpt) for 112,739 recovered ounces (93.7 % recovery, includes some co-mingled ore from the nearby Marhill deposit). P. Harvey 2005. The mine produced at a rate of 381 tons per day from a combination of vertical sublevel retreat, longhole and shrinkage mining.

The bulk of the production was from the North A zone that is accessible on the 60, 120, 180 and 240m levels and by ramp from the 240m to 300m level. Access to the Bell West Zone is via the 60m, 120m, and 180m levels. Work on the Northeast Zones in the mine was limited to drilling and 55 meters of drifting on the 120m level in 1991.

## 1.5 Diamond Drilling

A total of 11,469 meters in thirty-six holes were drilled on this property during 2005. Refer to Figure 2. The work was completed during the months of January to June 2005. Drilling was completed on the claims listed below. All samples were sent to SGS Laboratories in Toronto and assayed for gold.

Claim #        P44698  
                  P44697  
                  460SND  
                  13436SEC

## 1.6 References

2005: Harvey, Peter: Report on the 2005 Exploration Program Bell Creek Mine, (Internal Report).

## 1.7 Statement of Qualifications

I hereby certify that at the writing of this report "Report on the 2005 Exploration Program – Bell Creek Project" dated November 30<sup>th</sup>, 2006

- 1) I am currently employed as an exploration geologist by Goldcorp Inc. for the Porcupine Joint Venture.
- 2) I am a member of the Association of Professional Geoscientists of Ontario  
# 0727.
- 3) I have graduated from Memorial University of Newfoundland with the degree BSc in 1974.
- 4) I have practised my profession continuously since 1974.
- 5) I have no interest, direct or indirect in the mining claims comprising the property described in this report nor do I expect to receive any.

- 6) The logging of the core was performed by W. Waychison. The sampling of diamond drill core for assaying purposes was completed by Clyde Wakeford & Brad Norman. All work on the project was under the direct supervision of Peter Harvey.

Dated this 30<sup>th</sup>, day of November, 2006

Timmins, Ontario

*Paul Brown P.Eng.*



**ROCK CODES FOR BELL CREEK DIAMOND DRILL HOLES**

<b>ROCK TYPE</b>	<b>ROCK TYPE CODE</b>
<b>Ultramafic Volcanic</b>	<b>1</b>
basaltic komatiite	1a
peridotitic komatiite	1b
<b>Mafic Volcanic</b>	<b>2</b>
magnesium tholeiite	2mn
iron tholeiite	2fe
<b>Intermediate Volcanic</b>	<b>3</b>
<b>Felsic Volcanic</b>	<b>4</b>
<b>Sedimentary Rocks</b>	<b>5</b>
argillite	5a
graphitic argillite	5g
greywacke	5f
conglomerate	5cgl
chert	5cht
<b>Ultramafic Intrusive</b>	<b>6</b>
<b>Mafic Intrusive</b>	<b>7</b>
<b>Intermediate Intrusive</b>	<b>8</b>
<b>Felsic Intrusive</b>	<b>9</b>
quartz porphyry	9q
quartz feldspar porphyry	9d
Qtz/Fspar Porphyry (latite)	9e
<b>Diabase</b>	<b>10</b>
<b>Greyzone</b>	<b>GZ*</b>
<b>Quartz vein</b>	<b>QV</b>
<b>Overburden</b>	<b>OB</b>
<b>Fault/ Fault Zone</b>	<b>Flt, FZ</b>

TEXT ABBREVIATIONS FOR BELL CREEK DIAMOND DRILL HOLES

Ak	ankerite	mod	moderate
AK	ankerite	moti	mottled
ait	alteration	msv	massive
altd	altered	musc	muscovite
altn	alteration	mx	matrix
AMY	amygdaloidal	negli	negligible
ang	angle	num	number
approx	approximately	OB	overburden
argil	argillite	occ	occasional
assoc	associated	occas	occasionally
bdg	bedding	perp	perpendicular
bl	bleached	perv	pervasive
blik	black	pheno	phenocryst
Bou	boudinage	phenos	phenocrysts
br	brown	PIL	pillows
brkn	broken	po	pyrrhotite
bx	brecciated	poss	possible
bxd	brecciated	predom	predominantly
C	carbonaceous	ps	polysutured
C/g	coarse grained	py	pyrite
ca	core axis	q-ak	quartz-ankerite
CA	calcite	qas	quartz-ankerite stringers
ca-cb	calcium carbonate	qav	quartz-ankerite vein
carb	carbonalized	qcs	quartz-calcite stringers
CB	carbonatization	QCV	quartz-calcite vein
cbinfllg	carbonate infilling	QFP	quartz feldspar porphyry
cg	coarse grained	qs	quartz stringers
chl	chlonitic	QV	quartz vein
cl	chlorite	qz	quartz
cl'ic	chloritic	qz-ak	quartz-ankerite
clvg	cleavage	qz-ca	quartz-calcite
cnt	count	qz-do	quartz-dolomite
cnt	contorted	rb	ribboned
conc	concentration	rbly	rubblely
cong	conglomerate	rx	rock
cpy	chalcopyrite	SCH	schistose
cren/crn	crenulated	SE	sericite
ct	contact	secs	sections
cts	contacts	sec's	sections
dca	degrees to core axis	segs	sediments
deg	degrees	serp	serpentinite
dev	developed	sev	several
devel'g	developing	sfx	spinifex
diss	disseminated	shr	sheared
dk	dark	si	silica
dkgy	dark grey	silt	siltstone
do/dol	dolomite	sim	similar
drk	dark	sm	small
EOH	end of hole	sml	small
esp	especially	sp	sphalerite
felds	feldspar	spk	speck
fg	fine grained	spx	spinifex
flt	fault	SR/serp	serpentine
f-mg	fine to medium grained	SS10	graphitic argillite
fol	foliation	SS8	argillite
FP	feldspar porphyry	slg	strong
fracs	fractures	str	strong
frags	fragments	str	stringer
Fu	fuchsite	strgrs	stringers
fuch	fuchsite	str's	stringers
FZ	fault zone	sty	stylonitic
gen	generally	subpar	subparallel
gl	graphite	SZ	shear zone
grad	gradational	tc	taic chlorite
grn	green	TC	taic
grnd	groundmass	tca	to core axis
gy	grey	text	texture
GZ	grey zone	tourm	tourmaline
he	hematite	tr	trace
ll	parallel	Uc	upper contact
incl	including	UM	ultramafic metavolcanics
indic	indicate	upct	upper contact
infi'd	in filled	var	variable
Int	intermediate	vars	varioles
intercal	intercalated	vfg	very fine grained
irr	irregular	vg	visible gold
I	light	visib	visible
lam	laminated	VM	mafic metavolcanics
Lc	lower contact	VM1	high-fe mafic metavolcanics
LC	lost core	vn'g	veining
lct	lower contact	vol	volcanic
loc	locally	voic	volcanic
Lt	light	vwk	very weak
LX	leucoxene	w	with
m/g	medium grain	w/	with
M/msv	massive	wh	white
med	medium	wk	weak
mg	medium grained	wkly	weakly
mg	medium grain	wqz	white quartz
min	mineral	WR	whole rock
min	minor	wz	white quartz
MM	millimeter	xaline	crystalline
mn	minor	yel	yellow
lx	leucoxene	mn	minor
fracs	fractures	qcs	quartz-calcite stringers
amygs	amygdales	pbx	pillow breccia
bd	bedding	qzite	quartzite

**LEGEND CODES FOR BELL CREEK DIAMOND DRILL HOLES**

Textural Fields		Structural Fields		Alteration Fields		Veining Fields		Mineral Fields	
AMY	Amygdaloidal	BD	Bedded	AB	Albitization	AB	Albite	AB	Albite
BLD	Bladed	BND	Banded	AM	Amphibolization	AK	Ankerite	AC	Actinolite
BX	Breccia	BKY	Blocky	AK	Ankertization	CA	Calcite	AG	Silver
COB	Cobble	BOU	Boudinaged	BI	Biotization	CB	Carbonate	AH	Anhyrite
CST	Clast	BX	Breccia	BL	Bleached	EP	Epidote	AK	Ankerite
FBX	Flow Breccia	BXD	Brecciated	C	Carbonaceous	HE	Hematite	AS	Arsenopyrite
FELD	Feldspathic	CT	Contact	CA	Calcification	MT	Magnetite	AU	Gold
FOL	Foliated	CNT	Contorted	CB	Carbonatization	PY	Pyrite	BA	Barite
FRAG	Fragmental	CRN	Crenulated	CL	Chlontization	QZ	Quartz	BI	Biotite
GLOM	Glomerophytic	DSC	Disc	DO	Dolomitization	TO	Tourmaline	CA	Calcite
HTRO	Heterolithic	FD	Fold	EP	Epidotization	AB-CB	Albite-Carbonate	CL	Chlorite
HYAL	Hyaloclastite	FL	Flow	FU	Fuchsitic	AK-QZ	Ankerite-Quartz	CP	Chalcopyrite
LAP	Lapilli	FLT	Fault	GZ	Grey Zone		(includes Dome grey ankerite vein)	CR	Chromite
LITH	Lithic	FOL	Foliation		(carbonaceous alteration zone)	QZ-AK	Quartz-Ankerite	DO	Dolomite
M	Massive	FRA	Fracture	HE	Hematization	QZ-CA	Quartz-Calcite	EP	Epidote
MX	Matrix-supported	G	Gouge	K	Potassic	QZ-CB	Quartz-Carbonate	FU	Fuchsite
PIL	Pillowed	JNT	Joint	KA	Kaolinization	QZ-FU	Quartz-Fuchsite	GA	Galena
PBX	Pillow Breccia	LAM	Laminated	LX	Leucoxene	QZ-TO	Quartz-Tourmaline	GF	Graephite
PEB	Pebble	LN	Lineation	MG	Magnesite		<b>Percent Code</b>	GT	Garnet
POR	Porphyritic	SHR	Shear	SE	Sericitization		<b>Veining Texture Fields</b>	HE	Hematite
PM	Polymictic	SLK	Slickenside	SI	Silicification	BX	Breccia Vein	IL	Ilmenite
PRB	Porphyroblastic	SLP	Slip	SR	Serpentinization	GQ	Grey Quartz	JP	Jaspar
PS	Polysutured	VUG	Vuggy	TC	Talcose	MV	Massive Vein	LM	Limonite
QTE	Quartzose		<b>Other Fields</b>	TO	Tourmalinization	RB	Ribboned Vein	MC	Malachite
SCH	Schistose	AZ	Alteration Zone		<b>Alteration Intensity Code</b>	STR	Stringers	MN	Manganese Oxides
SFX	Spinifex	FG	Fine Grained	W	Weak	SHT	Sheeted Vein	MO	Molybdenite
SHD	Sheared	MG	Medium Grained	M	Moderate	STW	Stockwork	MT	Magnetite
SPH	Spherulitic	CG	Coarse Grained	S	Strong	STY	Stylolitic Vein	MU	Muscovite/Hydromuscovite
TUF	Tuffaceous	DISS	Disseminated		<b>Colour Fields</b>	SHV	Shear vein	OL	Olivine
UNS	Unsubdivided	FMG	Fine-Medium Grained	BK	Black	TNV	Tension vein	PO	Pyrrhotite
VAR	Variolitic	FCG	Fine-Coarse Grained	BL	Blue	WQ	White Quartz	PY	Pyrite
VES	Vesicular	INT	Intermediate	BR	Brown			QZ	Quartz
	<b>Pyroclastics/Epiclastics</b>	LOC,L	Locally (Local) Eg Lmag	GN	Green			SB	Stibnite
AGG	Agglomerate>64mm	MAG	Magnetic	GY	Grey			SD	Siderite
TBX	Tuff Breccia>64mm	MOD	Moderate	NGNY	Green/Grey			SE	Sericite
LAPT	Lapilli Tuff >4mm	PV	Pervasive	OLGN	Olive Green			SH	Scheelite
CRYT	Crystal Tuff 1/16-2mm	RBL	Rubble	OR	Orange			SP	Sphalerite
CAT	Coarse Ash Tuff <1/16mm-2mm	SM	Semi-Massive	PK	Pink			TC	Talc
FAT	Fine Ash Tuff <1/16mm	ST	Strong	RED	Red			TO	Tourmaline
PYRO	Pyroclastics	VST	Very Strong	TAN	Tan			TR	Tremolite
		WK	Weak	WH	White			VG	visible gold noted (historical)
								VG1	trace (1or 2 pin prick specks)
								VG2	a bit (3-10 pin prick specks)
								VG3	(10+ pin prick specks or equivalent)