

ASSESSMENT REPORT
on
1996 SUMMER AND FALL DRILL PROGRAMS

R. BELL PROPERTY
(for filing on the Pac 96, Glenside 96 and Summit 96 Groups)

NTS 82E/2 E

Lat: 49° 07' 00"N
Long: 118° 31' 12"W

Kettle River Resources Ltd.
Box 130, 330 Copper St.
Greenwood, B.C.
V0H 1J0

Linda Caron, P. Eng.
January, 1997

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1.0 SUMMARY

The R.Bell property (Crown Grant L.1506) is located in Southern B.C., about 11 kilometres west of Greenwood. The property is underlain by rocks of the Triassic Brooklyn Formation, located in the uppermost thrust slice in the Greenwood Camp and is part of the B.C. Basin, which hosts the thickest sequence of Brooklyn rocks exposed in the area. Detailed property scale mapping and sampling of surface and underground exposures on the R.Bell property was done during 1996 by Kettle River Resources.

Copper skarn-type mineralization, which has been the target of historic work on the property occurs within epidotized and pyritic Brooklyn volcanic rocks and in massive epidote-garnet skarn near the contact with (underlying) Brooklyn limestone. To a lesser extent, skarn type mineralization occurs within the limestone. A number of low angle Tertiary dykes are seen cutting the older rocks. Copper mineralization is controlled by a major structure, striking approximately north-south and dipping moderate to steeply east. Anomalous gold, silver and zinc accompany the copper mineralization, Massive magnetite/manganese skarn also occurs, without significant base or precious metal values.

Follow-up to anomalous gold soil values adjacent to known skarn mineralization resulted in the discovery of a new limestone hosted gold zone, about 75 metres north of the main copper skarn workings. High grade gold occurs as irregular patches and discontinuous veins, in a zone of silicified limestone, about 10 metres wide. The average grade across the zone is 0.287 oz/t, with areas within this larger zone grading in excess of 3 oz/t Au. There are no other elements anomalous within the gold zone. On a small scale, controls to mineralization are difficult to determine - in some cases the steep north-south bedding has controlled emplacement of silica-gold rich fluids, other places low angle cross-cutting faults appear to be important. The overall controls to the mineralized zone are equally unclear.

Elsewhere on the property, a number of steep, north-trending structures cut Brooklyn limestone. Silicification, brecciation, pyrite mineralization and anomalous gold values on surface are associated with several of these structures. In other cases, the limestone is cherty and more susceptible to shattering and crackling where cut by these structures with little introduction of silica.

A 3,534 foot, 14 hole drill program was completed in July, August and September of 1996, to test the gold zone, and the three nearby silicified zones, as described in this report. In the vicinity of the gold zone, alteration and mineralization in the drill holes appears to be strongly associated with low angle Tertiary dyking. The dykes often appear to act as dams below which fluids have pooled, however these zones of silicification, brecciation and pyrite flooding are rarely elevated in gold. The highest value returned from one such zone was 802 ppb from Hole 96K-9. There was no visual or geochemical evidence that the zone trenched on surface had been intersected in any of the drill holes, nor are the controls or attitude of this zone apparent. No strongly anomalous results were obtained from the other zones tested by drilling, and it appears that, in some cases, crackling and brecciation is a result of structures cutting brittle cherty limestone and that the amount of introduced silica is minimal. In other cases, introduced silica is apparent, however there are no associated precious metal values.

Further detailed surface work is recommended in the vicinity of the trenched gold zone, especially very detailed structural mapping to attempt to define the ore controls prior to any further attempt to test the downwards extension of the zone.

2.0 INTRODUCTION

2.1 Location, Access and Terrain

Work described in this report was done on the R. Bell Crown Grant (L 1506), located about 11 kilometres east of Greenwood, as shown on Figure 1. The claim is situated about 0.5 km east of Highway 3 and 2 km south of Wilgress Lake, on a moderate, open southwest facing slope immediately east of Fisherman Creek. There is excellent access to the property via an old mining and logging road leaving Highway 3 in a large pullout, about 2.5 km south of Wilgress Lake.

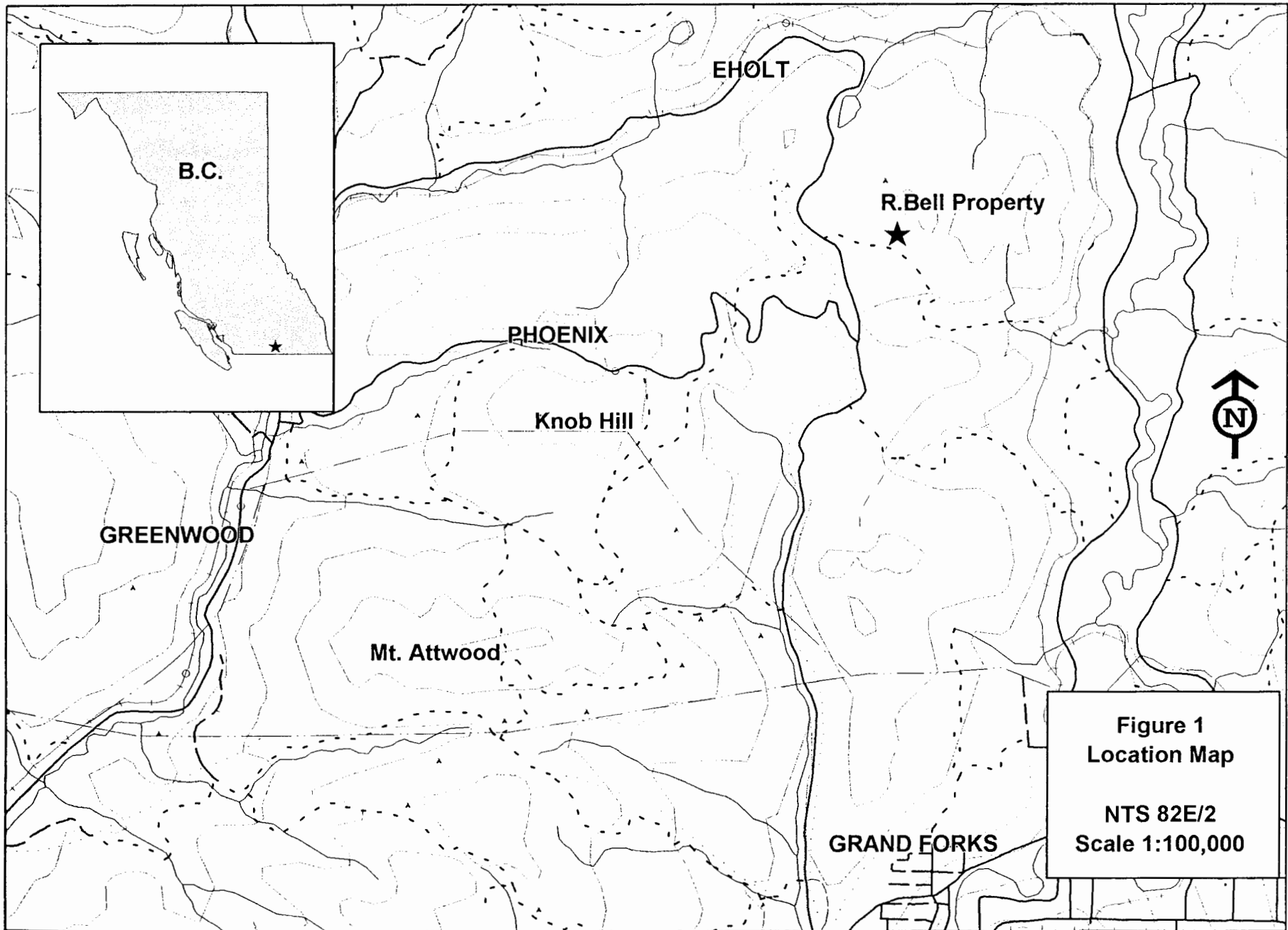
The R. Bell property is situated at an elevation of about 1000 metres. The property is, for the most part, an open grassy slope with minimal trees or brush. Except during very dry summers, water is available for drilling from Fisherman Creek.

2.2 Property and Ownership

For the purposes of filing assessment work, the R. Bell claim has been grouped three ways and a portion of the total work filed onto each group. The three groups are described below and shown on Figure 2. A single report has been prepared to describe the work program. All claims are owned 100% by Kettle River Resources Ltd and are part of a larger land package in the Phoenix - Eholt area.

Glenside 96 Group

CLAIM NAME	TENURE #	TYPE	UNITS	EXPIRY
DENVER	CG2875	CG	1	
DEXTER FR	CG3298	CG	1	
ERWIN	CG1691	CG	1	
PILOT	CG3297	CG	1	
R. BELL	CG1506	CG	1	
BULLION FR.	214589	LOCATED	1	23/08/2003
CRACKER JACK 1 FR	214591	LOCATED	1	23/08/2003
EYE 1 FR	216651	LOCATED	1	28/01/2003
EYE 2 FR	216652	LOCATED	1	28/01/2003
EYE 3 FR	216653	LOCATED	1	28/01/2003
PIPE 5 FR	214588	LOCATED	1	23/08/2003
BAT #1	215568	LOCATED	10	19/03/2004
BAT #2	215569	LOCATED	3	23/03/2004
BAT #3	215574	LOCATED	16	23/03/2004
PRIOR #1	215579	LOCATED	1	22/03/2004
PRIOR #2	215580	LOCATED	1	22/03/2004
PRIOR #3	215581	LOCATED	1	22/03/2004
PRIOR #4	215582	LOCATED	1	22/03/2004
PRIOR #5	215583	LOCATED	1	22/03/2004
PRIOR #6	215584	LOCATED	1	22/03/2004
PRIOR #7	215585	LOCATED	1	22/03/2004
PRIOR #8	215586	LOCATED	1	22/03/2004
PRIOR #9	215587	LOCATED	1	23/03/2004
PRIOR 10	215588	LOCATED	1	23/03/2004
PRIOR 11	215589	LOCATED	1	23/03/2004
PRIOR 12	215590	LOCATED	1	23/03/2004
PRIOR 13	215591	LOCATED	1	23/03/2004
PRIOR 14	215592	LOCATED	1	23/03/2004
GLENSIDE 1	215593	LOCATED	1	28/03/2003
GLENSIDE 2	215594	LOCATED	1	28/03/2003



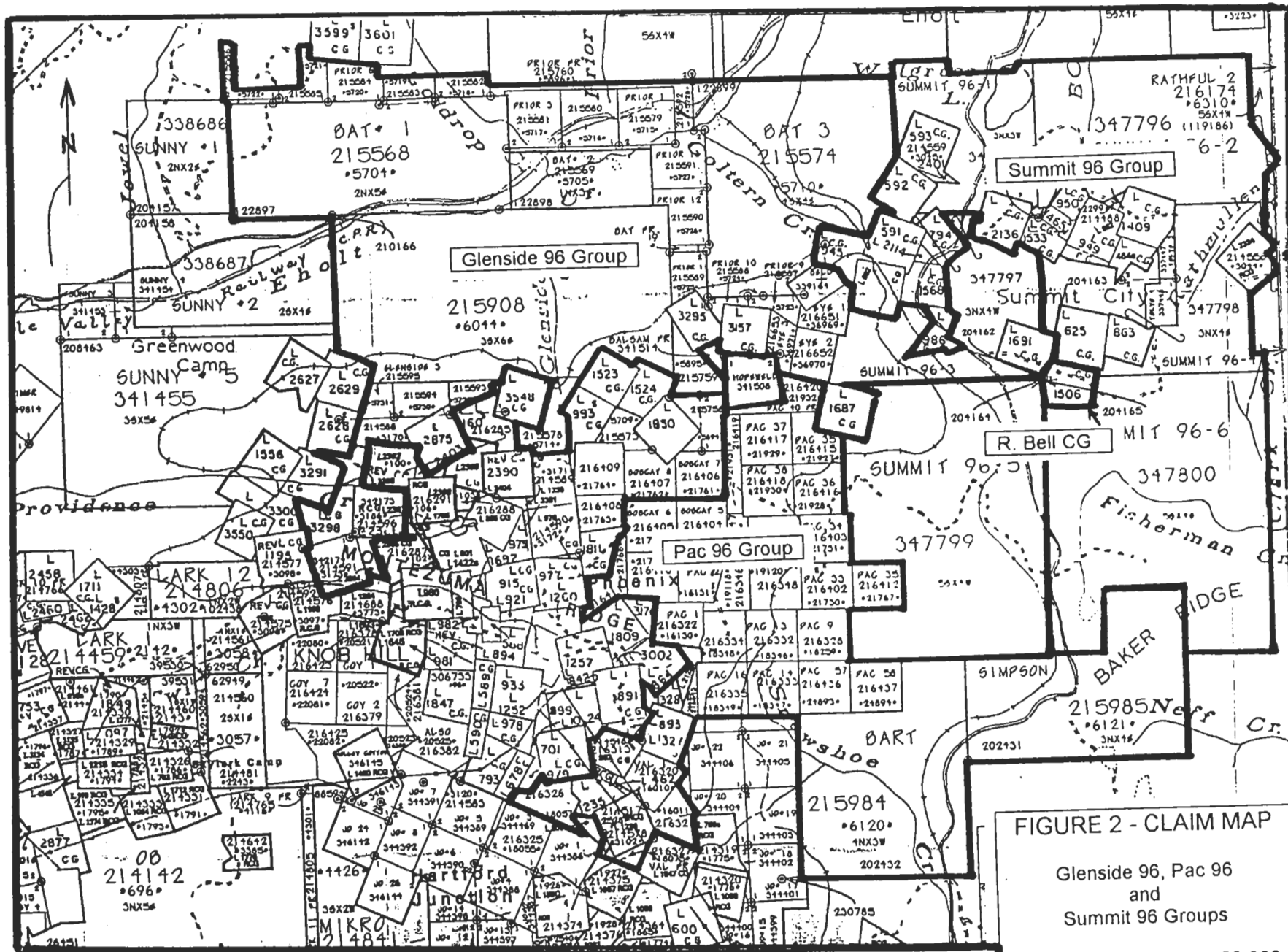


FIGURE 2 - CLAIM MAP
 Glenside 96, Pac 96
 and
 Summit 96 Groups
 NTS 82E/2E Scale 1:50,000

Glenside 96 Group, cont...

CLAIM NAME	TENURE #	TYPE	UNITS	EXPIRY
GLENSIDE 3	215595	LOCATED	1	28/03/2003
GLENSIDE FR	215578	LOCATED	1	28/03/2003
GLENSIDE 2 FR	215573	LOCATED	1	28/03/2002
COLTHERN FR	215759	LOCATED	1	20/06/2003
PRIOR FR.	215760	LOCATED	1	08/06/2004
BAT FRACTION	215909	LOCATED	1	27/08/2004
BAT 4	215908	LOCATED	18	27/08/2004
BELL	339164	LOCATED	1	10/08/2004
HOPEWELL	341508	LOCATED	1	02/11/2003
BALSAM FR.	341514	LOCATED	1	02/11/2003
LITTLE BURNE	342173	LOCATED	1	16/11/2004
LEWELLAH	342174	LOCATED	1	16/11/2004
SUMMIT 96-3	347797	LOCATED	12	05/07/2003

Pac 96 Group

CLAIM NAME	TENURE #	TYPE	UNITS	EXPIRY
R. BELL	CG1506	CG	1	
BANK OF ENGLAND	CG1235	CG	1	
FAIRPLAY FR.	CG1328	CG	1	
YELLOW JACKET	CG1327	CG	1	
BOBCAT #5	216404	LOCATED	1	07/07/2003
BOBCAT #6	216405	LOCATED	1	07/07/2003
BOBCAT #11 FR.	216410	LOCATED	1	07/07/2003
BOBCAT #12 FR	216411	LOCATED	1	07/07/2003
BOBCAT NO 1	216346	LOCATED	1	13/06/2003
BOBCAT NO 2	216347	LOCATED	1	13/06/2003
BOBCAT NO 3	216348	LOCATED	1	13/06/2003
BOBCAT NO 4	216349	LOCATED	1	13/06/2003
PAC 13	216332	LOCATED	1	08/09/2003
PAC 14	216333	LOCATED	1	08/09/2003
PAC 15	216334	LOCATED	1	08/09/2003
PAC 16	216335	LOCATED	1	08/09/2003
PAC 35	216415	LOCATED	1	12/08/2002
PAC 36	216416	LOCATED	1	12/08/2002
PAC 37	216417	LOCATED	1	12/08/2002
PAC 38	216418	LOCATED	1	12/08/2002
PAC 39 FR	216419	LOCATED	1	12/08/2002
PAC 40 FR	216420	LOCATED	1	12/08/2002
PAC #1	216322	LOCATED	1	03/04/2003
PAC #2	216323	LOCATED	1	03/04/2003
PAC #33 FR	216402	LOCATED	1	25/06/2003
PAC #34 FR	216403	LOCATED	1	25/06/2003
PAC #35	216412	LOCATED	1	07/07/2003
PAC #57	216436	LOCATED	1	19/12/2003
PAC #58	216437	LOCATED	1	19/12/2003
PAC #60	216643	LOCATED	1	20/06/2003
PAC NO 9 FR	216328	LOCATED	1	21/06/2003
RAWHIDE FR.	216313	LOCATED	1	12/06/2003
VAL #1	216320	LOCATED	1	20/02/2003
VAL #2 FR	216321	LOCATED	1	20/02/2003
VAL #3 FR	216327	LOCATED	1	01/12/2003
VAL 4 FR	214578	LOCATED	1	18/06/2003
WENDY NO 15 FR	216326	LOCATED	1	26/10/2001
BART	215984	LOCATED	12	13/12/2003

Pac 96 Group, Cont...

CLAIM NAME	TENURE #	TYPE	UNITS	EXPIRY
SIMPSON	215985	LOCATED	12	10/12/2003
HOPEWELL	341508	LOCATED	1	02/11/2003
BALSAM FR.	341514	LOCATED	1	02/11/2003
SUMMIT 96-5	347799	LOCATED	20	05/07/2003

Summit 96 Group

CLAIM NAME	TENURE #	TYPE	UNITS	EXPIRY
CORDICK	CG625	CG	1	
DUPLICATE	CG863	CG	1	
R. BELL	CG1506	CG	1	
DAISY FR	214488	REV CG	1	26/06/2003
ELMER NO 2	214558	REV CG	1	05/04/2003
JUMBO FR.	214559	REV CG	1	05/04/2003
SUMMIT 96-1	347795	LOCATED	9	09/07/2003
SUMMIT 96-2	347796	LOCATED	15	09/07/2003
SUMMIT 96-3	347797	LOCATED	12	05/07/2003
SUMMIT 96-4	347798	LOCATED	12	04/07/2003
SUMMIT 96-5	347799	LOCATED	20	05/07/2003
SUMMIT 96-6	347800	LOCATED	20	05/07/2003

* Expiry dates listed are after filing this report.

2.3 History

The R. Bell crown grant is situated immediately north of the historic Summit City at the headwaters of Fisherman Creek, and is part of the Summit Camp. A considerable amount of work, directed at copper skarn-type mineralization, has been done in the camp and on the property, as summarized below. Other more regional studies of geology and mineralization relevant to the R.Bell area are Reisbakken (1970), Peatfield (1978), Seraphim (1956) and Fyles (1990).

1896 - a 100 foot deep shaft was dug on the R.Bell (Minister of Mines Annual Report, 1896 p.578)

1897 - considerable work is reported for the R.Bell, including a 70 foot deep main shaft, a 30 foot shaft and 16 foot cross-cut and a small open cut. The main ledge is said to run north-south, dipping E 60°, consisting of chalcopyrite, pyrite and sphalerite in a dark green volcanic, with some silver and gold values. Massive magnetite is also reported and reference is made to nearby limestone and dyking (Minister of Mines Annual Report, 1897 p.594).

1900 - 200 feet of drifting and sinking done (Minister of Mines Annual Report, 1900 p.870)

1901 - the R.Bell is listed as one of the more important mines in the Grand Forks Mining Division, with approximately 480 tons of ore shipped. Development to date is recorded as 400 feet of sinking and 600 feet of cross-cutting and drifting (Minister of Mines Annual Report, 1901 p.1051,1052,1064)

1902 - 560 tons shipped (Minister of Mines Annual Report, 1905 p.183).

1902 - 1957 - there is no written record of work in this period, although the property was apparently still actively worked during this period.

1957 - the property was examined, sampled and described in some detail by Carswell (1957), as part of a M.Sc. dissertation on the Summit Camp.

1966 - a limited ground mag survey was done by Bornite Mines Ltd. (Weymark, 1966)

1983 - soil sampling and ground mag and VLF was done by Kettle River Resources over the R. Bell crown grant as part of a larger exploration program on the Bluebell property. A good gold anomaly was discovered which was not followed up (Kyba and Daughtry, 1984).

1991 - minor mapping and rock sampling was done on the R. Bell by Canamax as part of their larger exploration program on the Bluebell property, under option from Kettle River Resources (Hitchins, 1991).

1996 - Kettle River Resources Ltd. did follow-up soil sampling and detailed geological mapping and rock sampling. A high grade gold zone was found in silicified limestone adjacent to the skarn mineralization which had been the focus of previous exploration. The gold zone was exposed by trenching. The drill program described in this report was then completed.

2.4 Summary of Current Work Program

Fourteen NQ diamond drill holes were drilled from July 17 to September 24, 1996, for a total of 3,534 feet. Drilling was done under contract by Bergeron Drilling of Greenwood, B.C.. Core was logged and sawn for sampling at Kettle River's core facility at Boundary Falls. Logging and sampling was done by L. Caron and core sawing by N. Braam and D. Pazdzierski. Program supervision and drill hole lay-out was done by G. Stewart. A total of 265 core samples were collected and sent to Min-En Labs in Vancouver for preparation and 30 element ICP plus Au analysis.

3.0 GEOLOGY AND STRUCTURE

The Greenwood area has been mapped on a regional basis by Fyles (1990), and prior to this, by Little (1983) and Church (1986). Fyles' mapping shows the pre-Tertiary rocks form a series of thrust slices, which lie above a basement high grade metamorphic complex. A total of at least five thrust slices are recognised, all dipping gently to the north, and marked in many places by bodies of serpentine. Fyles' interprets these serpentinite bodies as representing part of a disrupted ophiolite suite, belonging to the Knob Hill Group of late Paleozoic age. Commonly, these serpentinite bodies have undergone Fe-carbonate alteration to listwanite, as a result of the thrusting event.

The oldest rocks in the camp belong to the late Paleozoic Knob Hill Group of dominantly volcanic affinity, and consist mainly of chert, greenstone and related intrusives, and serpentine. Overlying these rocks are sediments and volcanics (largely argillite, siltstone, limestone and andesite) of the late Paleozoic Attwood Group. In many cases evidence for thrusting is seen by the older Knob Hill Group rocks resting over the younger Attwood Group rocks. Rocks of the Knob Hill and Attwood Groups are unconformably overlain by the Triassic Brooklyn Formation, represented largely by limestone, clastic sediments and pyroclastics. The historically important skarn deposits in the Greenwood area (i.e. Phoenix, Oro Denoro, Motherlode-Greyhound) area hosted within the Triassic rocks.

Three separate intrusive events are known regionally to cut the above sequence, the probable Jurassic aged Lexington porphyry, the Cretaceous Nelson intrusives, and the Eocene Coryell pulaskite dykes and stocks. Tertiary sediments and volcanics unconformably overly the older rocks with the distribution of these Tertiary rocks largely controlled by series of north-south trending faults which form The Toroda Creek graben in the western portion of the map area, and the Republic graben in the east.

The R. Bell property is underlain by rocks of the Triassic Brooklyn Formation, located in the uppermost thrust slice in the Greenwood Camp, in what is referred to as the B.C. Basin. The B.C. Basin hosts the thickest sequence of Brooklyn rocks exposed in the Greenwood area. A number of significant mineral occurrences are located within the basin, and have historically been categorised as the Summit Camp. The mineral occurrences include true copper skarn type deposits, such as the Oro Denoro, which have strong structural controls and cross-cut stratigraphy, as well as more controversial deposits such as the Emma and B.C. Mine. Here massive sulfides (with high precious metal content) are stratabound and have many similarities to massive sulfide type deposits. This model is supported by stratabound zinc type mineralization at the Cyclops and Rathmullen showings, as well as mineralization at the Lancashire Lass and possibly Bluebell showings. The deposits may also, however, be skarn related.

Detailed property scale mapping and sampling of surface and underground exposures on the R. Bell property was done during 1996 by Kettle River Resources. Copper skarn-type mineralization, which has been the target of historic work on the property occurs within epidotized and pyritic Brooklyn volcanic rocks and in massive epidote-garnet skarn near the contact with (underlying) Brooklyn limestone. To a lesser extent, skarn type mineralization occurs within the limestone. A number of low angle Tertiary dykes are seen cutting the older rocks. Copper mineralization is controlled by a major structure, striking approximately north-south and dipping moderate to steeply east. Anomalous gold, silver and zinc accompany the copper mineralization, Massive magnetite/manganese skarn also occurs, without significant base or precious metal values.

Follow-up to anomalous gold soil values adjacent to known skarn mineralization resulted in the discovery of a new limestone hosted gold zone, about 75 metres north of the main copper skarn workings. High grade gold occurs as irregular patches and discontinuous veins, in a zone of silicified limestone, about 10 metres wide. The average grade across the zone is 0.287 oz/t, with areas within this larger zone grading in excess of 3 oz/t Au. There are no other elements anomalous within the gold zone. On a small scale, controls to mineralization are difficult to determine - in some cases the steep north-south bedding has controlled emplacement of silica-gold rich fluids, other places low angle cross-cutting faults appear to be important. The overall controls to the mineralized zone are equally unclear.

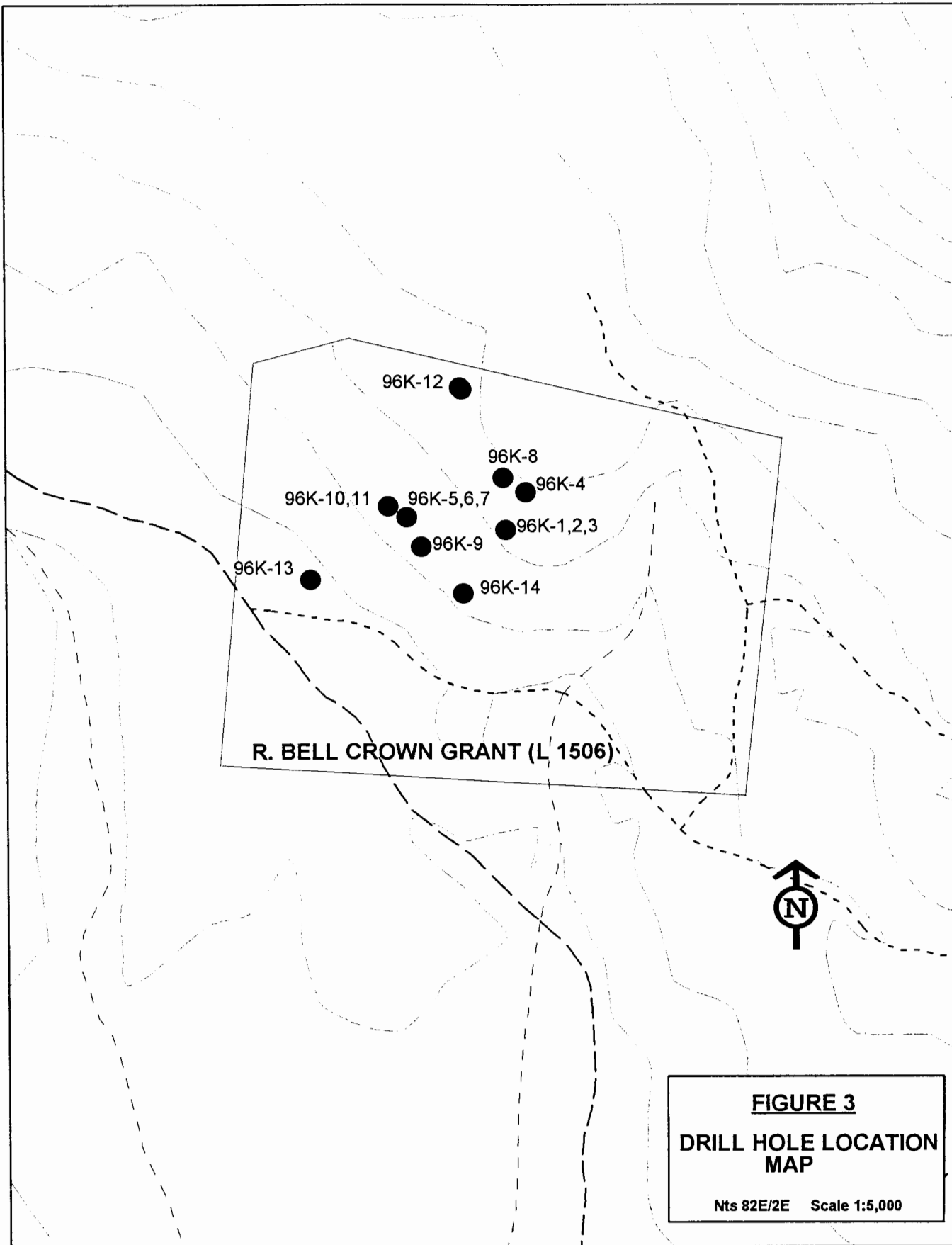
Elsewhere on the property, a number of steep, north-trending structures cut Brooklyn limestone. Silicification, brecciation, pyrite mineralization and anomalous gold values are associated with several of these structures. In other cases, the limestone is cherty and more susceptible to shattering and crackling where cut by these structures, however there is little introduced silica.

4.0 DRILLING

Fourteen holes were drilled during July, August and September, 1996 as described below. Drill hole locations are plotted on Figure 3 and logs are included in Appendix 1. Analytical results for core samples are contained in Appendix 2. A total of 3,534 feet were drilled, and 265 samples submitted for 30 element ICP plus 30 gram, Fire Geochem - AA Finish gold analysis. Drill hole specifications and co-ordinates are tabulated below.

Drill Hole	UTM Co-ordinates	Azimuth	Dip	Depth (feet)
96K-01	5,441,983.42 N 388,595.8 E	275°	-46.5°	212'
96K-02	5,441,983.53 N 388,597.35 E	275°	-65°	255'
96K-03	5,441,983.32 N 388,598.03 E	275°	-76.5°	572'
96K-04	5,442,013.9 N 388,615.51 E	269°	-66.5°	332'
96K-05	5,441,988.56 N 388,506.3 E	097°	-40°	276'
96K-06	5,441,988.71 N 388,504.77 E	097°	-65°	112'
96K-07	5,441,988.86 N 388,503.59 E	n/a	-90°	133'
96K-08	5,442,027.14 N 388,595.42 E	165°	-45°	137'
96K-09	5,441,965.66 N 388,518.22 E	147°	-43°	280'
96K-10	5,442,000.14 N 388,491.00 E	322°	-45°	170'
96K-11	5,441,999.56 N 388,491.78 E	322°	-65°	239'
96K-12	5,442,109.33 N 388,558.05 E	289°	-45°	246'
96K-13	5,441,934.2 N 388,416.82 E	278°	-45°	220'
96K-14	5,441,921.64 N 388,559.34 E	009°	-40°	350'

Holes 96K-1, -2, and -3 were collared about 25 metres east of the gold zone exposed by trenching on surface, and drilled beneath the zone to test it at depth. All three holes intersected massive, fine grained, well bedded limestone, with minor interbedded limey fragmental beds which typically have 60% angular clasts of dominantly limestone in a limey matrix. These fragmental beds are commonly weakly skarned. Locally there are zones, within both the limestone and fragmental, of massive magnetite +/- epidote +/- hematite +/- chlorite skarn. The older rocks are cut by late, unaltered Tertiary dykes. Two different dyke types occur, as elsewhere in the camp, a grey medium grained feldspar porphyritic dyke (the "pulaskite" unit), and a later, fine to medium grained, pink, glomeroporphyritic syenite dyke with characteristic brown muddy chill zones. Hole 96K-3 bottomed in a thick zone of medium to coarse grained Tertiary feldspar porphyritic intrusive, cut by numerous later pink syenite dykes. Zones of silicification, crackling, brecciation and pyrite flooding commonly occur in the limestone adjacent to dyke contacts, however none of these zones were anomalous in gold, or in any other element. There was no visible indication that the gold zone exposed on surface had been



intersected in any of the three drill holes, nor was there any geochemical expression of this zone in Holes 96K-1, -2 or -3.

Hole 96K-4 was drilled to test the northern strike extension of the gold zone and was collared about 30 metres north of the first three holes, again drilling to the west. Again the typical sequence of massive, well bedded limestone and minor limey fragmental, cut by two types of Tertiary dykes was encountered. As above, the limestone may be stressed, silicified, brecciated and flooded with pyrite adjacent to dykes but again, these zones show no elevated base or precious metal values. Again there was no evidence of the gold zone in Hole 96K-4.

Holes 96K-5, -6, and -7 were collared about 70 metres west of the gold zone and drilled towards the east, in the same section as 96K-1, -2, and -3, in order to "scissor" the zone. The typical limestone and limey fragmental sequence, cut by two types of Tertiary dyke, and altered and mineralized near dyke contacts, occurs in the holes. Local gritty interbeds in the limestone are common. A section through these six holes exemplifies the low angle of emplacement of the Tertiary dykes, and suggests an east-west striking, shallow north dipping control to mineralization. Again, no elevated values occur in these holes.

Hole 96K-8 was drilled to test the possibility of a shallow northerly plunging trend to the gold zone. It was collared about 50 metres north of the gold trench, and drilled towards the south, but was again unsuccessful in intersecting zones of visually or geochemically similar to that seen on surface.

Hole 96K-9 was designed to test the down slope gold-in-soil anomaly south of the trenched zone, to test the possibility that the anomaly was not due entirely to down slope movement. The hole was set up west of the anomaly, drilling towards the southeast. The typical limestone - Tertiary dyke sequence was intersected. The limestone, which may locally be cherty, shows minor crackling and stress zones, and minor pyrite-magnetite-skarn development associated with late stage dyking. Two samples of anomalous gold (802 and 244 ppb) were returned from zones of silicified and brecciated limestone with pyrite and minor magnetite associated with emplacement of a feldspar porphyry dyke.

Holes 96K-10 and -11 tested a zone of silicification, brecciation and pyrite mineralization with weakly anomalous gold geochemistry from soil and rock sampling, which is exposed on surface about 100 metres west of the trenched gold zone. Well bedded, fine grained limestone and cherty limestone cut by several feldspar porphyry dykes was encountered. A strong silicified, vuggy, brecciated, epithermal zone was intersected from 74 - 102' in Hole 96K-10, and a major fault zone from 148 - 158', however none of these zones, nor any samples from Hole 96K-11, were significantly anomalous in gold or any other elements.

Hole 96K-12 tested a similar siliceous breccia zone, exposed on surface about 130 metres northeast of the zone tested by Holes 96K-10 and -11. This zone appears to be a result of structure cutting a cherty, more brittle section within the limestone, without significant introduction of silica. Typical massive, well bedded limestone was intersected, with a gradational change to black, strongly banded argillaceous limestone at depth and to the west. There were no anomalous results from this hole.

Hole 96K-13 tested the Sleeper Zone, a silicified, vuggy, epithermal vein/structure hosted in limestone and exposed in outcrop along the upper main access road, just east of the fork in the road, as well as testing a high Ag soil anomaly just east of the Sleeper zone. The Sleeper zone was intersected at 189.5' in the hole, where it measured 6.5' in width. The zone was similar to that seen on surface - vuggy, with intense silicification and brecciation, and minor disseminated pyrite, but was not anomalous in precious or base metals. No other zones of interest were intersected in the hole, which drilled through the typical limestone, grit and fragmental units, with an increasing number of tuffaceous volcanic interbeds.

Finally, Hole 96K-14 was drilled to test for a possible south plunge to the trenched gold zone, collaring about 60 metres south of the zone and drilling shallowly to the north, into the hill (essentially parallel to the R.Bell skarn zone, and about 30 metres west of it). Limestone was typical to that seen in other holes, with an increased amount of skarnification. A number of stringers and zones of massive and banded pyrite-magnetite-chlorite-calcite skarn were intersected, with only weakly elevated gold (to 113 ppb) from the skarn zones. There was no evidence of the gold zone in this hole.

In summary, 14 holes were drilled to test the limestone hosted R.Bell gold zone, and three structurally controlled zones of silicification exposed on surface nearby. In the vicinity of the gold zone, alteration and mineralization in the drill holes appears to be strongly associated with low angle Tertiary dyking. These dykes often appear to act as dams below which fluids have pooled, however these silicified, brecciated and pyrite flooded zones are rarely elevated in gold. The highest value returned from one such zone was 802 ppb from Hole 96K-9. There was no visual or geochemical evidence that the zone trenched on surface had been intersected in any of the drill holes, nor are the controls or attitude of this zone apparent. No strongly anomalous results were obtained from the other zones tested by drilling, and it appears that, in some cases, crackling and brecciation is a result of structures cutting brittle cherty limestone and that the amount of introduced silica is minimal. In other cases, introduced silica is apparent, however there are no associated precious metal values.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Results from drilling of the high grade gold zone exposed on surface by trenching, as well as three nearby silicified structures also in Brooklyn limestone, were very disappointing. No highly elevated gold values were obtained from any of the nine drill holes which tested the gold zone, nor from four holes testing silicified structures exposed nearby on surface. Only one significantly anomalous gold value was returned from the program, 802 ppb Au, from Hole 96K-9 which tested the gold-in-soil anomaly down slope from the trenched zone.

Surface mapping and sampling in the vicinity of the gold zone failed to define overall controls to the mineralized zone. Further surface work is recommended in this area, especially very detailed structural mapping to attempt to define these ore controls prior to any further attempt to test the downwards extension of the zone.

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APPENDIX 1
DIAMOND DRILL LOGS

Hole 96K-1 Purpose: R.Bell - Summit Gold Zone - to test zone below Discovery outcrop and Trench 1

Northing: 5,441,983.42 UTM Northing
 Easting: 388,595.8 UTM Easting
 Azimuth: 275°
 Dip: -46.5° (no dip test)
 Depth: 212'

Drilled July 17-18, 1996
 Drilled by: Bergeron Drilling
 Logged by: L. Caron
 Core stored at Boundary Falls.

Interval		Rock type	Description	Alteration	Mineralization	Sample			
From	To					Number	From (feet)	To (feet)	Interval (feet)
0	16'	Overburden							
16	95'	Fng, massive Limestone	<p><u>16 - 72'</u> Fng grey-buff lst, mod hard but can scratch, massive, gen not good bedding, strong fizz.</p> <p><u>16 - 30'</u> greyish colour, bx'd, cut by numerous hairline clear qtz + black chl+py +/- qtz vnlts and vns to 0.5 cm. Minor narrow sealed bx zones. Dom trend of vning/fracturing/bx zones is 50° to C/A. Local perv pinkish colour. Minor rust on fracs.</p> <p><u>30 - 58'</u> Grey fng lst, not bx as above and with lesser hairline qtz and py/chl vnlts. Minor carb and rust on fracs.</p> <p>@ 55' bedding @ 30° to C/A @ 58' 4" orange brown sandy gouge zone 58 - 64' Massive fine buff lst as above</p> <p><u>64 - 72'</u> Whitish, pale pink, weak-mod cherty lst. Harder than above with minor rusty fracs, minor py, rare vugs. Dom rusty fracs @ 45° to C/A.</p> <p><u>72 - 95'</u> Fng grey lst, well bedded, banded gen @ 30-45° to C/A. Strong fizz.</p>	<p><u>16 - 30'</u> bx'd, numerous hairline qtz and py/chl vnlts, 30/ft, x-cutting</p> <p><u>30 - 95'</u> Minor qtz and py/chl vnlts</p>	<p>Tr py.</p> <p>@ 22' tr red min with py</p> <p><u>64 - 72'</u> 1-2% py, clotty, grainy</p> <p>@ 72' tr red min as @ 22'</p>	127801	16	20	4
						127802	20	30	10
						127803	30	40	10
						127804	40	50	10
						127805	50	60	10
						127806	60	70	10
						27807	70	80	10
						127808	80	90	10

						127809	90	95	5
95	116	FP dyke	<p>Pinkish grey, med grained Tertiary FP dyke. 10 % phenos plag, minor Kspar phenos, 5% mafic phenos alt'd to chl, sub-euhedral phenos avg 1-2 mm in fng pinkish Kspar rich mtrx.</p> <p>@ 95' Upper contact @ 85° to C/A.</p> <p><u>95 - 105'</u> broken, shattered with rusty frags, weak perv clay/chl, mod carb on frags.</p> <p>@ 116' Lower contact @ 40-45° to C/A.</p>			127810	95	105	10
116	212'	Fng, massive well bedded Limestone	<p>Pale grey massive fng lst, strong fizz throughout. Locally well bedded. Minor clear qtz vnlt and hairline py/chl vnlt, gen cut bedding, vnlt 60° to C/A. Local weak-mod calcsilicate alt'n.</p> <p><u>116 - 157'</u> Hairline black vnlt, avg 15-20/ft.</p> <p>@ 118' strong bedding @ 30° to C/A, coarser gritty bands show calcsilicate alt'n.</p> <p><u>157 - 161.5'</u> broken, rusty and yellow/Mn stained frags, locally vuggy with calcite druse.</p> <p>157 - 212' Hairline black vnlt avg 5/ft.</p> <p>@ 165' bedding @ 15° to C/A</p> <p>@ 195' 1.5 cm white- rusty bleached alt'n selvege to frac @ 50° to C/A.</p> <p>212' End of Hole</p>	Local weak-mod calcsilicate alt'n.	Tr py in black hairline vnlt with chl	127811	116	125	9
						127812	125	135	10
						127813	135	145	10
						127814	145	157	12
						127815	157	161.5	4.5
						127816	161.5	170	8.5
						127817	170	180	10
						127818	180	190	10
						127819	190	200	10
						127820	200	212	12

Hole 96K-2 Purpose : R.Bell - Summit Gold Zone - to test zone below Discovery outcrop and Trench 1 in same section as 96K-1

Northing: 5,441,983.53 UTM Northing
 Easting: 388,597.35 UTM Easting
 Azimuth: 275°
 Dip: -65° (no dip test)
 Depth: 255'

Drilled July 18-19, 1996
 Drilled by: Bergeron Drilling
 Logged by: L. Caron
 Core stored at Boundary Falls.

Interval		Rock type	Description	Alteration	Mineralization	Sample			
From	To					Number	From (feet)	To (feet)	Interval (feet)
0	8.5'	Overburden							
8.5	98'	Limestone and interbedded 1st agglom.	<p>Pale grey massive limestone, fng, stressed and weakly crackled looking. Local well developed bedding and calc silicate alteration. Interbedded greenish coarse limestone fragmental (1st agglom unit) with 60% angular clast, dom 1st, some chert, minor jasper in green fng skarned mtrx. Minor clear qtz vnlt and hairline black py/chl vnlt, as in 96K-1, avg 5/ft.</p> <p>@ 29' bedding @ 40° to C/A</p> <p>36 - 42' 1st agglom bed</p> <p>48.5 - 50' 1st agglom bed</p> <p>51 - 53' Yellowish colour, crackled, hard, silic'd</p> <p>@ 54' narrow vuggy bx zone, 1st frags, py mushy mtrx @ low core angle, about 10° to C/A.</p> <p>@ 55' good bedding @ 70° to C/A.</p> <p>58 - 59.5' Perv pale orange-rust colour, hard. Silic'd, crackled. Zone @ 50° to C/A.</p>	<p>weak calc silicate alt'n</p> <p>51 - 53' silic'd, rusty</p> <p>58 - 59.5' silic'd, rusty</p>	Tr py.	127821	8.5	20	11.5
						127822	20	30	10
						127823	30	40	10
						127824	40	51	11
						127825	51	53	2
						127851	53	58	5
						127852	58	59.5	1.5
						127853	59.5	62	2.5
						127854	62	72	10
						127855	72	82	10
						127856	82	92	10

			83 - 91.5' Lst agglom bed @ 30° to C/A.			127857	92	98	6
98	130.5	FP dyke	as in 96K-1 95'-116'. Pinkish grey, med grained Tertiary FP dyke. 10 % phenos plag, minor Kspar phenos, 5% mafic phenos alt'd to chl, sub-euhedral phenos avg 1-2 mm in fng pinkish Kspar rich mtrx. @ 98' Upper contact @ 60° to C/A. @ 130.5' 3 cm gougy zone @ lower contact, dark grey-green, 50° to C/A.						
130.5	255'	Fng, well bedded Limestone	Fng pale grey lst as above but lacking lst agglom interbeds. Well dev bedding with weak-mod calc silicate development gives coarser beds pref greener look. Hard, locally cherty lst, strong fizz. Minor black chl +/- py vnlt, dom @ 45°, also xcutting bedding. <u>130.5 - 137'</u> Vuggy, bx'd and silic'd, grey colour with strong coarse white cc zones as irreg patches and vns to 1 cm @ 40° to C/A. Minor rusty frags. <u>137 - 142'</u> strong black chl/py vnlt, 30° to C/A. @ 142' good bedding @ 50° to C/A. <u>161 - 166'</u> Perv pale orange colour, also orange alt'n selveges to rusty carb frags, silic'd. Rusty frags, Vuggy with cc druse and coarse cc vns to 2 cm @ 50 - 60° to C/A. Strong xcutting hairline carb and qtz and py/chl vnlt. Dom frac trend @ 50° to C/A. <u>176 - 179.5</u> v broken interval but fairly good recov. Vuggy, bx'd, some cc druse, mod rusty frags. <u>179.5 - 195</u> broken core, rusty frags, local vuggy zones, cc druse. @ 195' 4 cm coarse white carb vn @ 70° to C/A. <u>195 - 255'</u> Pale grey - pale grey green. Massive fng well bedded calc silicate alt'd lst. Mm scale bedding @ 40° to C/A. @ 243' v minor vuggy zone, no rust, not broken. 255' End of Hole	Weak-mod calcsilicate alt'n. <u>130.5 - 137'</u> vuggy, strong cc alt'n, bx'd and silic'd. <u>161 - 166'</u> vuggy, rusty carb frags, silic'd. <u>176 - 179.5</u> vuggy, bx'd.	Tr py	127858 127859 127860 127861 127862 127863 127864 127865 127866 127867 127868 127869 127870 127871 127872 127873 127874	130.5 137 142 152 161 166 171 176 179.5 179.5 185 190 190 195 202 212 212 222 232 242	137 142 152 161 166 171 176 179.5 185 190 195 202 212 222 232 242 255	6.5 5 10 9 5 5 5 3.5 5.5 5 5 7 10 10 10 10 10 12

Hole: 96K-3 Purpose: R.Bell - Summit Gold Zone - to test zone below Discovery outcrop and Trench 1 and in same section as 96K-1 and -2

Northing: 5,441,983.32 UTM Northing
 Easting: 388,598.03 UTM Easting
 Azimuth: 275°
 Dip: -76° 30' (no dip test)
 Depth: 572'

Drilled July 20-21, 1996
 Drilled by: Bergeron Drilling
 Logged by: L. Caron
 Core stored at Boundary Falls.

Interval		Rock type	Description	Sample	Alteration	Mineralization	Number	From (feet)	To (feet)	Interval (feet)
From	To									
0	7'	Overburden								
7	51'	Limestone	Fng, massive, pale grey lst, well bedded. Weak-mod calc-silicate banded. Weakly stressed and crackled. Hard, strong fizz. Mod hairline chl/py vnlt.		Weak-mod calc-silicate alt'n.	Tr py, diss & with chl in vnlt.	127876 127877 127878 127879 127880	7 12 22 32 42	12 22 32 42 51	5 10 10 10 9
			@ 33' bedding @ 70° to C/A @ 40' bedding @ 45° to C/A 40 - 44' strong xcutting chl/py frags/vnlt, 30/ft. @ 43' bedding @ 85° to C/A 50.5 - 51' Lst agglomerate bed.							
51	57	Epidote - Hematite Skarn (Volcanic? agglomerate)	Fine grained, dark green, rare frags of chert + ? in fine-med grained volc? Xtalline mtrx (rare rem euhedral fsp xtals visible), strongly alt'd to epidote-carbonate. Weak-mod fizz. Local hem frac coating + zone of perv hem alt'n @ lower contact.		Strong epidote - hematite skarn.	Tr py	127881	51	57	6
			Lower contact @ 50° to C/A.							
57	62.5	Limestone agglomerate	Clast supported lst fragmental unit, 50% lst clasts, 20% chert clasts, 5% fine grained dark grey volc? clasts, subround-angular, <0.5 cm to > 4 cm in size, in fine limey mtrx. Minor late carb vns. Weak alignment of clasts/bedding @ 80° to C/A.				127882	57	62.5	5.5

			Lower contact @ 50-60° to C/A.						
62.5	90	Limestone + minor interbedded lst agglom	Fng grey massive lst, pale pinkish tinge - weak calc-silicate alt'n. Weakly stressed and crackled. Med hard, strong fizz. Minor interbeds to 1.5' wide of lst agglom and weak ep/hem lst agglom as above. Minor chl/py hairline fracs/vnlts. <u>77-79.5'</u> lst agglom bed @ 45° to C/A. Epidotized / hematitic alt'd mtrx. <u>85-87'</u> lst agglom, bed @ 45° to C/A. mod chl/hem alt'n. <u>88-88.5'</u> lst agglom, strongly hem alt'd mtrx.			127883	62.5	72	7.5
						127884	72	82	10
						127885	82	90	8
90	136	FP dyke	Sharp upper contact @ 85° to C/A. Massive dark grey fng dyke, faint pink tinge. 2? Fsp + mafic phyr in Kspar rich mtrx, as in 96K-1 and -2. Local weak bleaching. Gen fresh looking. Minor carb on fracs. 133.5 - 136 broken zone, minor py, weak chl alt'n, contains xenoliths of lst. @ 136' irreg lower contact @ 50° to C/A.			127886	133.5	136	2.5
136	257.5	Limestone and interbedded Lst agglom	<u>136-150'</u> Fng massive, weak calc-silicate banded lst with interbedded lst agglom, as in 62.5 - 90' 136 - 137.5 lst agglom bed @ 45° to C/A 140 - 141 lst agglom bed @ 60° to C/A 145.5 - 147 lst agglom bed <u>150-170'</u> Fng massive, pale grey with pinkish tinge, calc-silicate banded lst. Minor chl/py vnlts/fracs. @ 161' strong bedding/banding @ 30° to C/A. @ 164' strong bedding/banding @ 40° to C/A. @ 168' strong bedding/banding @ 40° to C/A. <u>170-175.5'</u> Mod silic'd, bx'd, vuggy, rusty and carb filled fracs. Fracturing within interval dom @ 60° to C/A.	Weak-mod calc-silicate alt'n. <u>136-146'</u> weak rusty fracs, minor vuggy, mod carb filled fracs, weakly bx.	Tr py. <u>136-146'</u> Minor py.	127887	136	141.5	5.5
						127888	141.5	150	8.5
						127889	150	160	10
						127890	160	170	10
						127891	170	175.5	5.5
						127892	175.5	182	6.5
						127893	182	192	10
						127894	192	202	10
				<u>170-175.5'</u> Mod silic'n &	<u>170-175.5'</u> Minor py.				

			<p>Trend of zone appears to be this also.</p> <p><u>175.5 - 257.5'</u> Massive fng pale grey with pinkish tinge, weak-mod calc-silicate banded lst as above. Hard. Minor chl/py vnlts.</p> <p>@ 187' bedding @ 0° to C/A.</p> <p><u>190.5 - 192'</u> bx'd, 50% lst clasts, ang, <1 cm, with silic'd py mtrx, 10 cm wide zone? @ 20° to C/A.</p> <p>@ 210' bedding @ 10o to C/A. @ 219' bedding @ 40o to C/A. @ 240' bedding @ 85o to C/A. @ 247', 250' bedding @ 30o to C/A.</p> <p><u>253 - 253.3'</u> bx'd, lst clasts in fine v black py mtrx (sim to Thim bx). Zone @ 80° to C/A.</p> <p><u>254 - 254.5</u> crackled lst.</p>	<p>bx'n, vuggy, rusty & carb filled fracs.</p>		<p>127895</p> <p>127896</p> <p>127897</p> <p>127898</p> <p>127899</p> <p>127900</p>	<p>202</p> <p>212</p> <p>222</p> <p>232</p> <p>242</p> <p>252</p> <p>252</p>	<p>212</p> <p>222</p> <p>232</p> <p>242</p> <p>252</p> <p>257.5</p>	<p>10</p> <p>10</p> <p>10</p> <p>10</p> <p>10</p> <p>5.5</p>
257.5	268	Late pink syenite dyke	<p>Upper contact @ 70° to C/A.</p> <p>10% large (up to 1 cm) white fsp phenocrysts and glomerocrysts, may have resorbed cores, + minor mafic phenos in fine-med grained xtalline Kspar rich pink mtrx. Massive, fresh, late dyke.</p> <p>Lower contact @ 70° to C/A.</p>						
268	364.5	Limestone	<p>Fng, pale grey with faint pink tinge. Massive to weakly banded, weak calc-silicate alt'd lst as in 170-257.5'. Minor chl/py fracs/vnlts.</p> <p><u>275 - 278'</u> 5% mag+py as stingers and bands to 1" wide @ 45°</p> <p>@ 300' weak bedding/fracture trend @ 70° to C/A.</p> <p>@ 317' 1.5" py-ep-hem skarn band @ 80° to C/A.</p>	<p>Weak-mod calc-silicate alt'n.</p> <p><u>275 - 278'</u> mag-py skarn as stingers and bands</p> <p>@ 317' py-ep-hem skarn</p>	<p>Tr py.</p> <p><u>275 - 278'</u> 5% mag+py in skarny bands and stringers</p>	<p>128851</p> <p>128852</p> <p>128853</p> <p>128854</p> <p>128855</p> <p>128856</p> <p>128857</p>	<p>268</p> <p>277</p> <p>287</p> <p>297</p> <p>307</p> <p>317</p> <p>317</p> <p>327</p>	<p>277</p> <p>287</p> <p>297</p> <p>307</p> <p>317</p> <p>327</p> <p>337</p>	<p>9</p> <p>10</p> <p>10</p> <p>10</p> <p>10</p> <p>10</p> <p>10</p>

			333 - 335' dark grey, py rich skarny bed @ 35° to C/A. Weak chl-ep, strong banding with irreg dark black py rich bands & pale grey limey bands. Late xcutting carb.	333 - 335' Chl-ep-py skarn	333 - 335' 10-15% py as fine dark py in mtrx and coarse yellow dissem py.	128858 128859 128860	337 347 357	347 357 364.5	10 10 7.5
364.5	375	Late pink syenite dyke	Upper contact @ 55° to C/A. As in 257.5 - 268' with strong 1-2' wide muddy brown, fine grained fsp porphyritic chilled margins and coarser grained core with coarse pink mtrx with fsp phenos. Lower contact @ 80° to C/A.						
375	380	Limestone	Grey-green fng v. weak calc-silicate alt'd lst, massive, mod soft, minor chl-py frags dom @ 80o to C/A cut also xcutting.	V. weak calc-silicate alt'n	Tr py.	128861	375	380	5
380	397	Late pink syenite dyke	Irreg upper contact @ about 70° to C/A. Massive fresh late syenite dyke as in 257.5 - 268' and 364 - 375', with muddy 1-2' wide chill zones @ contacts as in 364 - 375'. Lower contact @ 75° to C/A.						
397	448	Limestone	Pale grey, locally with pale green or pinkish tinge, massive, mod-strongly banded, mod calc-silicate alt'd with minor py-chl frags and alt'n on dirty bed within lst. @ 406' v strong bedding/banding @ 25° to C/A. @ 411' v strong bedding/banding @ 80° to C/A. @ 412' v strong bedding/banding @ 45° to C/A. @ 420' v strong bedding/banding @ 60° to C/A. @ 437' v strong bedding/banding @ 75° to C/A. @ 444' 2" crack, lost circulation 447 - 448' crackled, healed.	Mod-strong calc-silicate alt'n.	Tr py.	128862 128863 128864 128865 128866	397 407 417 427 437 448	407 417 427 437 448	10 10 10 10 11

448	505	Med-coarse grained FP intrusive	<p>Upper contact @ 70° to C/A.</p> <p>Chilled near upper contact, resembles grey-pinkish FP dykes, becomes coarser grained, equigranular intrusive texture away from upper contact. Looks dioritic in composition.</p> <p>Grading from 25% euhedral white fsp, weakly aligned @ 55° to C/A, 5% partly resorbed mafic (px?) phenos in finer 2 fsp ? matrix near upper contact, to more equigranular intrusive looking in core zone (458-498').</p> <p>498 - 505' finer grained again, not chilled against syenite dyke but get sense that getting close to base of FP unit.</p>						
505	544	Late pink syenite dyke	<p>Upper contact @ 70° to C/A.</p> <p>Typical syenite dyke as in 257.5 - 268', etc. Cuts FP intrusive. Narrow chill zones at contacts.</p> <p>Lower contact @ 45° to C/A.</p>						
544	558	Med-coarse grained FP intrusive	<p>As in 498 - 505'. Massive, fine-med grained, dark grey. Finer grained than in core of FP intrusive (458 - 498'), sense getting near lower contact of this unit. Minor bleaching against contacts with syenite dykes above and below.</p>						
558	572	Late pink syenite dyke	<p>Typical coarse pink syenite dyke as in 257.5 - 268', etc. Chilled muddy zone, about 3' wide near upper contact.</p> <p>Upper contact @ 40° to C/A.</p> <p>@ 572' EOH in coarse pink syenite</p>						

Hole 96K-4

R.Bell - Summit Gold Zone - to test northern extension of zone below upper blast trench,
drilled same orientation as Holes 96K-1, 2, 3

Northing: 5,442,013.9 UTM Northing
Easting: 388,615.51 UTM Easting
Azimuth: 269°
Dip: -66.5° (no dip test)
Depth: 332'

Drilled July 22, 1996
Drilled by: Bergeron Drilling
Logged by: L. Caron
Core stored at Boundary Falls.

Interval		Rock type	Description	Alteration	Mineralization	Sample			
From (feet)	To (feet)					Sample Number	From (feet)	To (feet)	Interval (feet)
0	7	Overburden							
7	63.5	Limestone	Fng massive, pale grey with pink or greenish tinge, local mod-strong banding, weak-mod calc-silicate alt'n. Mod hard, strong fizz. Minor chl-py hairline fracs. 0 - 40' Minor rusty fracs. @ 21' strong banding @ 40° to C/A. 22- 30' crackled, stressed with 25/ft xcutting chl-py fracs. 45 - 55' avg 15/ft chl-py fracs, dom @ 60° to C/A. @ 47' strong banding/bedding @ 45° to C/A. @ 56' strong banding/bedding @ 45° to C/A. 61 - 62.5' 1st agglom as below, v. low core angles (ie. This is start of bed @ 63.5')	Weak-mod calc-silicate alt'n.	Tr py.	128901	7	17	10
						128902	17	27	10
						128903	27	37	10
						128904	37	47	10
						128905	47	57	10
						128906	57	63.5	6.5
63.5	74	Limestone agglomerate	Upper contact @ 10° to C/A. Coarse mtrx supported 1st breccia unit with 50% clasts (85% 1st, up to 8 cm, 10% chert, avg 0.5 cm, + inor fng volc?) in green fng xtalline?/grainy fsp-qtz rich mtrx. Lower contact @ 70° to C/A.		Tr py in mtrx.	128907	63.5	74	10.5

74	227	Limestone	Fng massive, pale grey, weak-mod calc-silicate alt'd limestone as in 7 - 63.5'. Mod hard, strong fizz, minor chl-py frags.	Weak - mod calc-silicate alt'n.	Tr py.	128908	74	82	10
			<u>116 - 120'</u> stressed, crackled looking			128909	82	92	10
			<u>120 - 139'</u> mixed fng lst & clast supported lst agglom (or bx'd healed lst??). Some evidence of late bx (ie. 133.5' rusty bx structure @ 20° to C/A and strong rusty frags from 130 - 137'), but some of bx texture may be primary.			128910	92	102	10
			@ 180' strong banding @ 80° to C/A.			128911	102	112	10
			<u>185 - 186'</u> narrow dark grey-black chilled FP dyke @ 70° to C/A.			128912	112	122	10
			<u>186 - 194'</u> mod stressed and crackled with about 30/ft chl-py frags.			128913	122	132	10
			@ 191' strong bedding @ 60° to C/A			128914	132	142	10
			@ 198' strong bedding/banding @ 80° to C/A.			128915	142	152	10
			<u>217 - 220'</u> stressed, bx'd, fine pyritic mtrx, silic'd + carb flood zones. Broken.			128916	152	162	10
			@ 221' strong bedding @ 50° to C/A.			128917	162	172	10
						128918	172	182	10
						128919	182	192	10
						128920	192	202	10
	128921	202	212	10					
	128922	212	217	5					
	128923	217	222	5					
	128924	222	227	5					
227	259	FP dyke	Upper contact broken. Typical massive grey FP dyke, 2 fsp + mafic phyric. <u>227 - 232'</u> broken, vuggy, carb alt'd near upper contact. Lower contact @ 45° to C/A.			128925	227	232	5
259	298.5	Limestone	As in 74 - 227'. Massive grey banded calc-silicate alt'd. Local narrow gritty interbeds. Minor chl-py frags. @ 261' strong bedding @ 50° to C/A. @ 264' strong bedding @ 65° to C/A	weak-mod calc-silicate alt'n.	Tr py.	128976	259	267	8
						128977	267	277	10
						128978	277	287	10

			<p>@ 280' strong bedding @ 30° to C/A</p> <p>284 - 286' stressed, crackled</p> <p>289.5 - 291' dark green fng FP dyke @ 50° to C/A.</p>			128979	287	298.5	11.5
298.5	310.5	Late pink syenite dyke	<p>Upper contact @ 70° to C/A.</p> <p>Typical glomerocrystic syenite dyke with coarse pink core and chilled muddy contact zones.</p> <p>Lower contact @ 45° to C/A.</p>						
310.5	332	Limestone	<p>Fng, grey massive mottled and banded lst as in 259 - 298.5'. Rare minor v. narrow vuggy zones.</p> <p>313 - 320' v. contorted banding.</p> <p>@ 332' EOH.</p>			128980	310.5	322	11.5
						128981	322	332	10

Hole 96K-5 R.Bell - Summit Gold Zone - to test in same section as Holes 96K-1,2,3 from SW on Trench to scissor under Discovery trench 1 area.

Northing: 5,441,988.56 UTM Northing
 Easting: 388,506.3 UTM Easting
 Azimuth: 097°
 Dip: -40° (no dip test)
 Depth: 276'

Drilled July 23-24, 1996
 Drilled by: Bergeron Drilling
 Logged by: L. Caron
 Core stored at Boundary Falls.

Interval		Rock type	Description	Alteration	Mineralization	Sample			
From (feet)	To (feet)					Sample Number	From (feet)	To (feet)	Interval (feet)
0	6	Overburden							
6	29	FP dyke	Med-dark grey, fng FP dyke, rare xenoliths, local weak bleach zones and rusty fracs + minor carb on fracs. Weak white clay as partial alt'n of phenos. Lower contact @ 55° to C/A.						
29	50.5	Limestone	Fng, buff-grey lst, locally weak-mod banded and calc-silicate alt'd. Minor yellow-rust coatings on fracs. Mod hard. Strong fizz. Mod-strongly fractured. Locally stressed and crackled, minor chl-py vnlts. @ 30.5 2" grey pyritic gouge @ 34.5' 2" coarse white cc vn @ 37' banding @ 50° to C/A @ 41' banding @ 50° to C/A 42 - 47.5' stressed, crackled, vuggy zone, silic'd or cherty, minor py diss & vnlts, fine cc + qtz? druse.	Weak calc-silicate alt'n	Tr py.	128982 128983 128984 128985 128986	29 34 39 42 47.5	34 39 42 47.5 50.5	5 5 3 5.5 3
50.5	56.5	Late chilled syenite dyke	Broken, irreg upper contact Grey chilled syenite dyke - no pink core but typical glomerocrystic fsp texture + mafic phenos as in other holes and lower in this one. V narrow bleach zones @ contacts. Lower contact @ 65° to C/A.			128987	50.5	56.5	6

56.5	117.5	Limestone	<p>Typical massive fng grey weak calc-silicate banded lst with minor chl-py frags/vnlts. Mod hard, strong fizz.</p> <p><u>66 - 67'</u> stressed and crackled. Str chl-py hairline frags and vnlts, dom @ 70° to C/A, avg 20/ft. Cherty or v weak silic.</p> <p><u>67 - 67.3'</u> cherty or silic'd bx zone, 1" perv rust on frac @ 70° @ 67.3'</p> <p>@ 75' banding/bedding @ 45° to C/A @ 85' banding/bedding @ 40° to C/A @ 104' banding/bedding @ 60° to C/A</p>	Weak calc-silicate alt'n	Tr py.	128988 128989 128990 128991 128992 128993 128994 128995	56.5 66 67 67.3 79 89 99 109	66 67 67.3 79 89 99 109 117.5	9.5 11 0.3 11.7 10 10 10 8.5
117.5	121.5	FP dyke	<p>Upper contact @ 70° to C/A</p> <p>Typical dark grey, fng, chilled FP dyke. Minor late carb</p> <p><u>121.0 - 121.3'</u> brown bleached zone</p> <p>Lower contact @ 65° to C/A.</p>						
121.5	256.5	Limestone	<p>Fng massive pale-med grey, weak-mod calc-silicate alt'd, mod-strongly banded lst as in 56.5 - 117.5'. Minor chl-py vnlts. Hard, strong fizz.</p> <p>@ 146' strong banding/bedding @ 70° to C/A.</p> <p>@ 188' strong banding/bedding @ 55° to C/A.</p> <p><u>205 - 214'</u> stressed and crackled with greater chl-py vnlts, avg 25-30/ft.</p> <p><u>215 - 256.5'</u> mottled grey lst with only v minor calc-silicate alt'n. Local minor gritty interbeds ie. 237' @ 50° to C/A.</p>	<u>121 - 215'</u> weak-mod calc-silicate alt'n	Tr py.	128996 128997 128998 128999 129000 129001 129002 129003 129004 129005 129006 129007 129008 129009	121.5 129 139 149 159 169 179 189 199 209 219 229 239 249 256.5	129 139 149 159 169 179 189 199 209 219 229 239 249 256.5	7.5 10 10 10 10 10 10 10 10 10 10 10 7.5
256.5	265.5	Late pink syenite dyke	<p>Upper contact @ 60° to C/A.</p> <p>Massive fresh late pink syenite dyke with typical pink glomerocrystic core and finer brown muddy glomerocrystic chilled zones near contacts.</p> <p>Lower contact @ 85° to C/A.</p>						

265.5	276	Limestone	Massive grey fng lst as in 215 - 256.5' 265.5 - 269' crackled and stressed adj to dyke with chl/py hairline fracs avg 25-30/ft. @ 276' EOH		Tr py.	129010	265.5	276	10.5
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Hole 96K-6

R. Bell - Summit Gold Zone - to test in same section as Hole 96K-5

Northing: 5,441,988.71 UTM Northing
 Easting: 388,504.77 UTM Easting
 Azimuth: 097°
 Dip: -65° (no dip test)
 Depth: 112'

Drilled July 25, 1996
 Drilled by: Bergeron Drilling
 Logged by: L. Caron
 Core stored at Boundary Falls.

Interval		Rock type	Description	Alteration	Mineralization	Sample			
From (feet)	To (feet)					Sample Number	From (feet)	To (feet)	Interval (feet)
0	7	Overburden							
7	27	FP dyke	<p>7 - 22' Pale grey-green, mod soft alt'd fsp+mafic phyrlic dyke, prob typical FP but weakly bleached and clay-chl alt'd. Mod-strong rusty frags, minor late carb vnlt & frags.</p> <p>22 - 27' Dark grey fng chilled FP dyke with weakly aligned fine fsps @ 60° to C/A.</p> <p>Lower contact @ 60° to C/A.</p>						
27	34	Limestone agglom/bx unit	<p>Fragmental unit, clasts angular to subround, <1cm to >5 cm of lst, bleached argillic volc? intrusive?, minor chert, in xtalline or gritty fine mtrx.</p> <p>27 - 32' Mtrx supported, 50% clasts, diss py in mtrx, gen 2-3% but locally up to 15% fine py flooding in mtrx ie. 28.5 - 30.5'.</p> <p>32 - 34' Clast supported fragmental. 2-3% py in mtrx. Weak fracturing & carb vning @ 45° to C/A.</p>	Py flood in mtrx.	<p>2-3% diss py in mtrx.</p> <p>28.5 - 30.5 15% fine py flooding in mtrx.</p>	129011	27	32	5
						129012	32	34	2
34	72	Limestone	<p>Fng massive pale grey, mod banded lst, weak calc-silicate alt'n, local coarse gritty interbeds. Minor chl-py frags. Hard, strong fizz.</p> <p>35 - 39' crackled, stressed, chl/py frags 15/ft.</p>	Weak calc-silicate alt'n	Tr. py	129013	34	42	8

			<p>@ 42' bedding @ 45° to C/A</p> <p>@ 46' strong bedding @ 40° to C/A.</p> <p>47 - 72' weak-mod rusty frags.</p> <p>@ 57' minor vuggy carb zone</p> <p>@ 62' bedding @ 60° to C/A</p> <p>65 - 67' minor vuggy carb zone</p> <p>70.5 - 72' broken, stressed zone.</p>			129014	42	52	10
						129015	52	62	10
						129016	62	72	10
72	77	Late syenite dyke	<p>Broken upper contact @ 90°? to C/A</p> <p>Fine-med grained, grey, mafic + fsp porphyritic in pinkish grey fsp (Kspar + plag) rich mtrx with 10% fine mafics. No good pink core as in typical larger syenite dykes.</p> <p>Lower contact broken.</p>		Tr py.				
77	112	Intermixed Limestone, grit and lst fragmental	<p>Intermixed fine grey lst, gritty sandy beds and lst fragmental unit. Local bx zones. Gritty beds have 2-3% diss py.</p> <p>77 - 80' Fng grey massive lst.</p> <p>80 - 83' Grey-green grainy grit bed - beach sand? Mod fizz</p> <p>81 - 83' bx'd, broken, carb alt'n.</p> <p>83 - 85.5' Lst fragmental, bx'd strong carb alt'd.</p> <p>85.5 - 90' Grey green massive fine-med grained grit bed as in 80 - 83'. Mod fizz. Qtz& fsp grains, < 1mm, + 5-10% subround pebbles avg 0.5 cm.</p> <p>90 - 92' Mottled dark grey-green bx'd lst fragmental unit as in 105-107' @ 80° to C/A.</p>			129017	77	83	6
					80 - 83' Minor diss py.	129018	83	85.5	2.5
						129019	85.5	90	4.5
					85.5 - 90' 2% diss py.	129020	90	92	2
						129021	92	100	8

		<p><u>92 - 97'</u> Med grey-green, grainy bed with 5% subround frags, avg 1 cm, mod fizz. Beach sand? As in 80-83', 85.5-90'.</p> <p><u>97 - 105'</u> Fng grey massive weak-mod banded lst with gritty interbeds</p> <p><u>99 - 99.3'</u> med-coarse grained qtz rich grit beds @ 15°</p> <p><u>100 - 100.5'</u> to C/A. Mod fizz</p> <p><u>105 - 107'</u> Mottled looking, dark grey-green bx'd fragmental interbed as in 90-92'. Lower contact @ 80° to C/A.</p> <p><u>107 - 112'</u> Fng grey-green banded lst.</p> <p>@ 112' EOH</p>		<p><u>92 - 97'</u> Minor diss py</p> <p><u>99 - 99.3'</u> <u>100 - 100.5'</u> 2-3% diss py.</p>	<p>129022</p> <p>129023</p> <p>129024</p>	<p>100</p> <p>105</p> <p>107</p>	<p>105</p> <p>107</p> <p>112</p>	<p>5</p> <p>2</p> <p>5</p>
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Interval		Rock type	Description	Alteration	Mineralization	Sample			
From (feet)	To (feet)					Sample Number	From (feet)	To (feet)	Interval (feet)
<p>Hole 96K-7 R.Bell - Summit Gold Zone - to test in same section as Hole 96K-5,6</p> <p>Northing: 5,441,988.86 UTM Northing Easting: 388,503.59 UTM Easting Azimuth: n/a Dip: -90° (no dip test) Depth: 133'</p> <p>Drilled July 26, 1996 Drilled by: Bergeron Drilling Logged by: L. Caron Core stored at Boundary Falls.</p>									
0	7	Overburden							
7	29.5	FP dyke	<p>7 - 16' Pale-med grey-green, bleached zones brownish grey along fracs, fsp + mafic porphyritic, rare xenoliths.</p> <p>16 - 23' Grey-brown, broken, alt'd zone. Strong rusty fracs. Dom frac trend 45° to C/A. Fault zone.</p> <p>23 - 29.5' Dark grey-green, fng chilled. Lower contact @ 70° to C/A.</p>	<p>Mod carb alt'n.</p> <p>16 - 23' Fault zone @ 45°? to C/A. Weak perv clay alt'n.</p>	<p>16 - 23' Minor py.</p>	129026	16	23	7
29.5	101.5	Interbedded Limestone, Lst fragmental and Limey grit	<p>29.5 - 34.5' Lst, fine-med grained, pale grey, massive, weakly bedded @ 45° to C/A. Locally gritty with fine frags. Typical green mottled zone adj to dyke. Strong fizz.</p> <p>@ 34.5' contact @ 70° to C/A.</p> <p>34.5 - 40.5' Green lst agglom, mottled looking, 60% irreg frags, gen of grey fng lst & green coarse xtalline limey fragmental + ? with grey limey mtrx. Collapse bx with sandy influx mtrx? @ 40.5' contact @ 60° to C/A.</p> <p>40.5 - 51' Green-grey, med-coarsely xtalline lst with 20-30% fine frags (lst + chert + jasper? +...) Massive, not bedded.</p>			129027	29.5	34.5	5
						129028	34.5	40.5	6
						129029	40.5	51	10.5
						129030	51	59	8
						129031	59	68.5	9.5
						129032	68.5	78	9.5
						129033	78	88	10

			<p><u>51 - 68.5'</u> Grey green lst agglom + minor interbedded coarse xtalline limey fragmental as in 34.5 - 40.5'</p> <p><u>68.5 - 101.5'</u> Pale grey, massive fine packed lst fragmental with 60-70% lst frags in coarse xtalline limey mtrx, minor interbedded fng grey massive lst @ 70° to C/A.</p>			129034	88	101.5	13.5
101.5	108	Older chl alt'd mafic phyric dyke	Med grained, med grey-green, massive intrusive looking, mod chl alt'd, 10% chl alt'd mafic phenos? Or poss xenoliths, avg 3-4 mm in fsp rich mtrx. Pre-Tert dyke or flow?	Mod chl alt'n		129035	101.5	108	6.5
108	133	Interbedded Limestone and Lst fragmental	<p><u>108 - 118'</u> Pale grey massive fine packed lst fragmental as in 68.5 - 101.5'</p> <p><u>118 - 119.5'</u> Dark grey green lsp fragmental bed? @ 50° to C/A with 50-60% grey fng lst frags, ang, weakly aligned along bedding? With fine py flood in mtrx + coarse euhedral py rimming frags + in mtrx.</p> <p><u>119.5 - 131.5'</u> Pale grey, massive fng lst, weak calc-silicate alt'n, weak bedding @ 45° to C/A.</p> <p><u>131.5 - 133'</u> Dark grey-green lst fragmental as in 118- 119.5 with 2-55 py, fine grained, in mtrx & coarse euhedral py rimming clasts & in mtrx.</p>	<p><u>118 - 119.5'</u> fine py flood in mtrx</p> <p><u>131.5 - 133'</u> fine py flood in mtrx</p>	<p><u>118 - 119.5'</u> 2 - 5% py in mtrx and rimming frags</p> <p><u>131.5 - 133'</u> 2 - 5% py in mtrx and rimming frags</p>	<p>129036</p> <p>129037</p> <p>129038</p> <p>129039</p> <p>129040</p>	<p>108</p> <p>118</p> <p>119.5</p> <p>125</p> <p>131.5</p> <p>133</p>	<p>118</p> <p>119.5</p> <p>125</p> <p>131.5</p> <p>133</p>	<p>10</p> <p>1.5</p> <p>5.5</p> <p>6.5</p> <p>1.5</p>

Hole 96K-8

R. Bell - Summit Gold Zone - to test possibility of shallow N dip to gold zone in Discovery Trench

Northing: 5,442,027.14 UTM Northing
 Easting: 388,595.42 UTM Easting
 Azimuth: 165°
 Dip: -45° (no dip test)
 Depth: 137'

Drilled July 27, 1996
 Drilled by: Bergeron Drilling
 Logged by: L. Caron
 Core stored at Boundary Falls.

Interval		Rock type	Description	Alteration	Mineralization	Sample			
From (feet)	To (feet)					Sample Number	From (feet)	To (feet)	Interval (feet)
0	6	Overburden							
6	68.5'	Limestone	<p>Fng grey limestone, mod well bedding. Bedding at very low core angles. From surface o/c's, bedding is vertical, N-S striking ie. We are drilling along strike of bedding, not down dip.</p> <p>Weak calc-silicate alt'n. Mod narrow gritty lst interbeds. Gen quite broken but good recoveries. V strong rusty fracs and perv orange Fe-carb? flood zones to 2" wide along fracs. Minor clear qtz vnlt cut earlier xcutting hairline black chl-py vnlt - both are cut by later rusty fracs. Mod hard, strong fizz.</p> <p>@ 7' bedding @ 10° to C/A</p> <p>@ 12' bedding @ 10-15° to C/A</p> <p>20 - 25' perv Fe-carb? Alt'n, weak-mod cherty or silic, pale buff-orange colour, v. strong rusty fracs. Locally bx'd with carb influx along bx fracs. Stressed and cracked looking.</p> <p>@ 27' bedding @ 10° to C/A</p>	<p>Weak calc-silicate alt'n. Weak perv Fe-carb? alt'n.</p> <p>20 - 25' perv Fe-carb, weak-mod cherty or silic</p>	Tr. py.	129041	6	15	9
						129042	15	20	5
						129043	20	25	5
						129044	25	30	5

			<p>@ 28.5', 29.5' 2" orange Fe-carb? Flood zone @ 50° to C/A.</p> <p><u>30 - 36.5'</u> as in 20 - 25', stressed, crackled, perv Fe-carb?, cherty or weak-mod silic'n?</p> <p><u>36.5 - 40.5'</u> v broken, v. rusty, stressed and crackled, pale buff-orange colour as in 30 - 36.5' with vuggy rusty bx zone 1-2" wide @ 05° to C/A., 1st frags & carb mtrx. perv Fe-carb alt'n, weak silic?</p> <p><u>40.5 - 46'</u> stressed, crackled, perv Fe-carb, cherty or weak silic? As in 20 - 25', 30 - 36.5'. Mod rusty frags.</p> <p>@ 43-44; 1-2" bx zone @ 05° to C/A, prob same zone as in 36.5 - 40.5'</p> <p><u>46 - 65.5'</u> Fng massive grey lst, locally buff-pale orange, v weak perv Fe carb alt'n. Mod rusty frags. Local minor bx zones. Mod chl-py frags, dom @ 90° & 45° to C/A.</p> <p>50 - 51' black carb-chl + py vnlt/bx infilling @ 0° to C/A, 1-2" wide zone.</p> <p><u>65.5 - 68'</u> mottled, stressed, crackled lst adj to dyke. Str py-chl xcutting vnlt.</p>	<p><u>30 - 46'</u> perv Fe-carb, cherty or weak- mod silic</p>		<p>129045 30 36.5 6.5</p> <p>129046 36.5 40.5 4</p> <p>129047 40.5 45 4.5</p> <p>129048 45 50 5</p> <p>129049 50 55 5</p> <p>129050 55 60 5</p> <p>128826 60 68.5 8.5</p>		
68.5	72	Chilled syenite dyke	Muddy grey, fsp + mafic phyrlic, glomerocrysts of fsp, rare lst xenoliths in fng mtrx. Looks like chilled syenite dyke.					
72	137	Limestone	<p>Grey lng lst as above but less fractured and stressed, unalt'd. Minor py-chl vnlt. Weak-mod well developed bedding.</p> <p><u>80 - 87'</u> weakly stressed and crackled. Minor rusty frags and perv orange Fe-carb? zones to 0.5" wide along frags.</p> <p>@ 82' bedding @ 0-10° to C/A @ 89' bedding @ 0-5° to C/A @ 113' bedding @ 0° to C/A @ 125' bedding @ 50° to C/A @ 134' bedding @ 45° to C/A @ 137' EOH</p>		Tr. py.	<p>128827 72 80 8</p> <p>128828 80 90 10</p> <p>128829 90 100 10</p> <p>128830 100 110 10</p> <p>128831 110 120 10</p> <p>128832 120 130 10</p> <p>128833 130 137 7</p>		

Hole: 96K-9

Purpose: To test the downslope Au soil geochem anomaly, below Au zone.

Northing: 5,441,965.66 UTM Northing

Easting: 388,518.22 UTM Easting

Azimuth: 147°

Dip: -43°

Depth: 280 feet

Drilled August 23-24, 1996

Drilled by: Bergeron Drilling

Logged by: Linda Caron

Core stored: Boundary Falls core shack

Interval		Rock type	Description	Alteration	Mineralization	Sample		
From (feet)	To (feet)					Number	From (feet)	To (feet)
0	7'	Overburden						
7	280'	Limestone	<p>Massive fine grained, pale grey limestone. Well bedded, gen @ 45° to C/A. Mod hard, strong fizz. Minor black chl +/- py & chl rich inerbeds to 1 cm wide, + coarse py.</p> <p>@ 12', 20', 50' good bedding @ 45° to C/A</p> <p><u>57.5 - 67'</u> FP dyke. Fng, dark grey-green fsp porph dyke. Fresh, massive. Minor chill, bleach adj to xenolith. Upper contact @ 50° to C/A. Narrow carb vn @ contact. 57.5 - 59.5 1st xenolith, ½ of core. Lower contact @ 80° to C/A.</p> <p><u>67 - 72.5'</u> Dark - pale grey stress zone below dyke. Mottled looking, crackled. Up to 15% py, coarse, euhedral - subhedral, dissem + minor mag. Silic'd, chalc qtz vning + carb vning.</p>	<p><u>67.5 - 68.5</u> Mod silic'n + narrow irreg and frac controlled @ 30°, white chalc'd qtz vning, to 1 cm, but discontinuous.</p> <p><u>68.5 - 70.0'</u> crackled</p> <p><u>70 - 72.5'</u> Silic'd + irreg and frac controlled chalc qtz vning as above, on frags @ 5° and 30° to C/A, plus locally to up 25% qtz bx frags to 0.5 cm.</p>	<p><u>67.5 - 68.5'</u> 15% coarse diss py Minor mag - blebs and diss</p> <p><u>68.5 - 70'</u> 3-5% diss py Minor mag - blebs and diss</p> <p><u>70 - 72.5'</u> 15% coarse diss py</p>	128801	67	68.5
						128802	68.5	70
						128803	70	72.5

		<p><u>72.5 - 80'</u> Weak - mod crackling and local silic/bx zones ie. 75 - 76.5'</p> <p><u>80 - 87'</u> V. weak crackling and local v. weak silic/cherty lst + local 2-5% py in dark grey-green chl rich bands, gen @ 45° to C/A. <u>85 - 87'</u> 5% mag as blebs and irreg bands to 0.5"</p> <p><u>95 - 102'</u> minor py+mag+chl bands to 2", dom @45° to C/A</p> <p>@ 113' bedding @ 30°</p> <p><u>125 - 150'</u> Weak calc-silicate alt'n, pale lilac green colour, weak-mod banding with local pale green weak epidote layers. @ 137' bedding @ 45°</p> <p>@ 165' bedding @ 60° @ 168' bedding @ 30° @ 195' bedding @ 20°</p> <p><u>210.5 - 213'</u> FP dyke. Massive fresh fng, dark grey-green feldspar porph dyke. Sharp contacts, narrow chill zones. Lower contact @ 45°.</p> <p><u>222 - 229'</u> Mod calc silicate alt'd lst, strong pale green-purple banded appearance with mm to cm scale banding @ 20° to C/A.</p> <p><u>229 - 237'</u> Syenite dyke. Fresh, massive, grey-brown to pale pink, glomerocrystic typical syenite dyke with sharp contacts and grey chill margins. Upper contact @ 45° Lower contact @ 50°</p> <p>@ 255' bedding @ 45° @ 278' bedding @ 50°</p> <p>280' EOH.</p>	<p><u>72.5 - 80'</u> weak-mod crackling and weak local silic (cherty?) bx zones ie. 75 - 76.5'</p> <p><u>95 - 102'</u> minor py-mag-chl skarny bands</p> <p><u>125 - 150'</u> weak calc silicate alt'n</p> <p><u>222 - 229'</u> mod calc silicate alt'n</p>	<p><u>85 - 87'</u> 5% mag</p> <p><u>95 - 102'</u> minor py+mag+chl bands to 2"</p>	128804	72.5	80
					128805	80	87

Hole: 96K-10 Purpose: To test Gerry's middle silic'd zone.

Northing: 5,442,000.14 UTM Northing
 Easting 388,491.00 UTM Easting
 Azimuth: 322°
 Dip: -45°
 Depth: 170 feet

Drilled August 26-27, 1996
 Drilled by: Bergeron Drilling
 Logged by: Linda Caron
 Core stored Boundary Falls core shack

Interval		Rock type	Description	Alteration	Mineralization	Sample		
From (feet)	To (feet)					Number	From (feet)	To (feet)
0	7'	Overburden						
7	170'	Limestone	<p>Massive, pale grey fng lst. Local well developed bedding. Mod carb vning + chl +/- py bands and fracs.</p> <p><u>7 - 23'</u> broken, rusty fracs. Minor clear qtz vnlt.</p> <p><u>20 - 21'</u> Pale grey green fine-med grained xtal tuff? @ 45°.</p> <p><u>35 - 37'</u> Well banded, pale green, weak-mod calc silicate alt'n, mm scale grey gritty interbeds. Banding @ 45° to C/A.</p> <p><u>37 - 38.5'</u> Pale grey, lst/grit bed, qtz & lime frags and grains in limey mtrx. Bed @ 50° to C/A.</p> <p>@ 41' good bedding @ 45° to C/A</p> <p><u>53 - 55.5'</u> lst grit bed as is 37 - 38.5'</p> <p><u>67 - 69'</u> Weak-mod crackling, weak silic or cherty lst. Pale green tinge, weak calc-silicate alt'n.</p> <p><u>69 - 72.5'</u> Weak calc silicate alt'n.</p>	<p><u>35 - 37'</u> weak-mod calc silicate alt'n</p> <p><u>67 - 72.5'</u> weak calc silicate alt'n</p>	Tr py	128806	7	15
						128807	15	25
						128808	25	35
						128809	35	40
						128810	40	50
						128811	50	60
						128812	60	70
						128813	70	74

		<p><u>74 - 102'</u> Silic'd, vuggy, epithermal zone as detailed below:</p> <p>74 - 80' Pale buff-grey colour, crackled, weak silic'd/cherty lst, locally vuggy.</p> <p>80 - 88' Grey-whitish, mottled, hard, silic'd or cherty? lst, still fizzes but can't scratch. Mod chl-py frags, minor carb vning.</p> <p>88 - 91.8' Grey mottled lst with carb vning.</p> <p>91.8 - 96' Intense silic, grey-tan vuggy silica flood zone, 10% fine white qtz bx frags. Local strong chalced qtz banding.</p> <p>96 - 99' Grey banded lst, strong bedding @ 45° to C/A. @ 98' 6 cm silica flood/bx zone with ang white qtz frags to 0.5 cm in grey py rich fng silica mtrx. @ 98.5' 5 cm intense silica flood zone</p> <p>99 - 100.5' Two 0.5' grey-tan, vuggy, intense silica flood zones as in 91.8-96 and 101.2-102, with pale grey-tan str silic'd lst between. Zones @ 50° to C/A.</p> <p>100.5 - 101.2' Massive mottled grey mod silic or cherty lst.</p> <p>101.2 - 102' Intense silic grey vuggy silica flood zone @ 65° to C/A. 10% v fine bx frags of qtz in fine chalc qtz mtrx as in 91.8 - 96'</p> <p><u>102 - 106'</u> Pale green, massive well banded lst. Patchy hard cherty zones. Good bedding @ 50° to C/A.</p> <p><u>106 - 111.5'</u> Mottled grey lst with minor patchy hard cherty (silic'd?) zones and locally up to 5% grey-pinkish ang qtz frags to > 2cm.</p> <p><u>111.5 - 118.5'</u> Interbedded grey-green, fng, well bedded mudstn and grit (with mm scale banding) with white-grey massive lst. Soft.</p> <p>@113' bedding @ 70° @116' bedding @ 5°</p>	<p><u>74 - 102'</u> Silic'd, epithermal zone as detailed</p>		<p>128814</p> <p>128815</p> <p>128816</p> <p>128817</p> <p>128818</p> <p>128819</p> <p>128820</p> <p>128821</p> <p>128822</p> <p>128823</p> <p>128824</p> <p>128825</p>	<p>74</p> <p>80</p> <p>84</p> <p>88</p> <p>91.8</p> <p>96</p> <p>96</p> <p>99</p> <p>100.5</p> <p>100.5</p> <p>101.2</p> <p>102</p> <p>106</p> <p>106</p> <p>111.5</p> <p>111.5</p>	<p>80</p> <p>84</p> <p>88</p> <p>91.8</p> <p>96</p> <p>99</p> <p>100.5</p> <p>101.2</p> <p>102</p> <p>106</p> <p>111.5</p> <p>118.5</p>
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		<p><u>118.5 - 170'</u> Mottled grey massive poorly bedded cherty lst. V hard with patchy soft area. Strong fizz. Minor rounded qtz frags/grains to 0.5 cm. Weak bedding @ 45° to C/A.</p> <p>148 - 158' Fault Zone v. broken, rusty frac, broken cherty lst, local coarse carb vnlt.</p> <p>@ 170' EOH</p>			<p>128476 128477 128478</p>	<p>118.5 130 140</p>	<p>130 140 148</p>
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Hole: 96K-11 Purpose: To test Gerry's middle py zone under Hole 96K-10, deeper in same section.

Northing: 5,441,999.56 UTM Northing
 Easting: 388,491.78 UTM Easting
 Azimuth: 322°
 Dip: -65°
 Depth: 239'

Drilled August 28 - 30/96
 Drilled by: Bergeron Drilling
 Logged by: Linda Caron
 Core stored : Boundary Falls core shack

Interval		Rock type	Description	Alteration	Mineralization	Number	Sample	
From (feet)	To (feet)						From (feet)	To (feet)
0	8'	Overburden						
8	43.5'	Limestone	Fng massive pale to dark grey lst, local well developed bedding @ 30-45° to C/A. V. weak local calc-silicate banding. Minor qtz vnlts + minor coarse xtalline carb vns to 1 cm. Patchy cherty zones - hard but scratchable. 36 - 43.5' Pale buff colour, bleached looking, patchy cherty zones, weakly crackled.	Local v weak calc silicate banding	Tr diss py and py/chl on fracs	128482 128483 128484 128485	8 12 22 32	12 22 32 43.5
43.5	89'	FP dyke	Fresh, massive fng porph, med grey FP dyke. Locally broken but unaltered. Minor late white carb vnlts. @ 43.5 sharp contact @ 30° to C/A @ 89' 0.5' gougy/crushed and broken lower contact zone @ 90° to C/A.					
89	106'	Limestone	Pale-med grey massive lst, poorly developed bedding. Minor narrow bx and crackle zones. Weak patchy cherty zones, gen easy to scratch. Minor coarse xtalline carb vns. 103 - 106' Bx'd, strong carb vning, 10% grey, irreg to circular silica? fossils? qtz grains??? Looks lithologic, not replacement.			128486 128487 128488 128489	89 94 99 103	94 99 103 106
106	137'	FP dyke	Fresh massive med grey porph dyke as in 43.5 - 89'					
137	150.5	Lst and Limey bx and volc	Grey fng lst with ninterbedded greenish grey fng volc? (strong bedding @ 40° to C/A) and with limey bx unit (lst mtrx with 10% chl alt'd volc frags to 4 cm but gen < 1 cm). Local cherty lst (or poss silic?). 137 - 141' Lst and interbedded volc 141 - 147' Limey bx 147 - 150.5' Lst and interbedded volc. Str cherty component to lst (or poss silic?), about 25% of interval.			128490 128491 128492	137 141 147	141 147 150.5

150.5	160'	FP dyke	<p>Med grey porph FP dyke as above. Gen fresh, massive, but 150 - 153' 5% vugs, bx'd</p> <p>@ 150.5' upper contact broken but about 90° to C/A @ 160' sharp lower contact @ 65° to C/A</p>			128493	150.5	154
160	237'	Limestone	<p>Massive pale-med grey lst and patchy cherty lst, strong bedding and fine interbedded qtz grain gritty bands, give patchy differential hardness. Bedding @ 45° to C/A. Local irreg to subround grey qtz inclusions/fossils??? as above.</p> <p><u>222 - 239'</u> Patchy cherty lst. Well bedded @ 30-40°. Minor local narrow bx zones with fine limey clasts in py mtrx.</p> <p>@ 239' EOH</p>		<p>Minor py with chl on frags</p> <p><u>222 - 239'</u> Narrow bx zones with pyritic mtrx</p>	<p>128494</p> <p>128495</p> <p>128496</p>	<p>160</p> <p>222</p> <p>232</p>	<p>169</p> <p>232</p> <p>239</p>

Hole: 96K-12		Purpose: To test under Gerry's upper zone.							
Northing: 5,442,109.33 UTM Northing									
Easting: 388,416.82 UTM Easting									
Azimuth: 289°									
Dip: -45°									
Depth: 246'									
Drilled Sept 14 - 15, 1996									
Drilled by: Bergeron Drilling									
Logged by: Linda Caron									
Core stored: Boundary Falls core shack									
Interval		Rock type	Description	Alteration	Mineralization	Number	Sample		
From (feet)	To (feet)						From (feet)	To (feet)	
0	8'	Overburden							
8	120'	Limestone	<p>Pale grey, massive, mod well bedded lst, mm to 10 cm darker grey gritty interbeds. Minor carb vning, v minor chl+py on fracs.</p> <p><u>8 - 30'</u> Bleached, tan-buff colour, stressed and crackled, local narrow dry bx zones. Minor yellow coating on fracs.</p> <p>@ 50' str bedding @ 35° to C/A @ 70' str bedding @ 40° to C/A</p> <p><u>100 - 101.5'</u> and <u>104 - 105.5'</u> Stressed and crackled. Strong carb vns and flooding</p> <p><u>112 - 112.5'</u> bleached yellow-grey zone</p> <p><u>115 - 120'</u> Gradational change to argillaceous lst below. Gradual darkening in colour and increase in dark/light contrasting banding.</p>	<p><u>8 - 30'</u> stressed, crackled</p> <p><u>100 - 101.5'</u> and <u>104 - 105.5'</u> stressed and crackled, strong carb vns and flooding</p>	Tr py	128497	8	20	
						128498	20	30	
						128499	100	110	
						128500	110	120	
120	246'	Black Argillaceous Limestone	<p>Black argillaceous limestone, strong bedding, soft, strong fizz. Local strong contrasting banding appearance with dark argillaceous/light gritty bands, mm-cm scale. Minor black graphite on fracs.</p> <p>@ 120' strong bedding @ 40°</p>	<u>120 - 188'</u> strong carb on fracs and irreg patches and vnlts	Minor diss py and py vnlts. >> fine py in darker bands, << in grey gritty bands	128226	120	130	

Interval		Rock type	Description	Alteration	Mineralization	Sample		
From (feet)	To (feet)					Number	From (feet)	To (feet)
<p>Hole: 96K-13 Purpose: To test under the Sleeper vn</p> <p>Northing: 5,441,934.2 UTM Northing Easting: 388,416.82 UTM Easting Azimuth: 278° Dip: -45° Depth: 220'</p> <p>Drilled September 16-18, 1996 Drilled by: Bergeron Drilling Logged by: Linda Caron Core stored: Boundary Falls core shack</p>								
0	7'	Overburden						
7	123'	Limestone (and interbedded tuff and bx)	<p>Gen massive to well bedded grey- v. pale green, fng lst, with interbedded fine grey gritty lst beds and pale to dark green, chloritic fng limey volc? or tuff? and thicker beds (to 2') plus clasts of dark green, fine-med grained, fine fragmental/tuffaceous pyritic volcanic. Also minor limey bx interbeds with dom lst clasts in green limey volc? mtrx, range from v coarse with dom lst clasts to v fine with dom pyritic volc and rare chert clasts. V minor cherty beds.</p> <p>@36' 3" zone of fine muddy py flooding, in fng bed par to bedding in lst. 75° to C/A.</p> <p>@50' bedding @70°</p> <p><u>67 - 69'</u> Dark green, med grained chloritic volc or xtal tuff? 30% 1mm ang fsp, chl alt'd, in fine chl alt'd mtrx with 5% diss py. 50° to C/A.</p> <p><u>86 - 86.5'</u> Dark chl volc or tuff as in 67 - 69', with 5-10% py and weak perv silic'n.</p> <p><u>100 - 115'</u> Pale green, well bedded, finely laminated lst and coarser gritty limey beds (with 1-2% py diss and par to bedding) Bedding dom 75-85° to C/A.</p>		<p>v minor py, diss and as stringers, dom in silty or tuff beds.</p> <p>@36' 3" zone of 10% fine py flooding</p> <p>67 - 69' 5% fine diss py</p> <p>86 - 86.5' 5-10% fine diss py</p>			
123	144.5	Epidote-Chlorite alt'd dyke or porph volc??	<p>Grey-green alt'd porph dyke? or volc. 2-5%, <1mm epid alt'd fsp xtals, 2-5% 1-2 mm dark coarse chl alt'd mafic phenos and glomerocrysts in fine grained pale br-green mtrx. Mod hardness, minor carb on frags.</p>	perv epidote - chl alt'n	minor diss py	128234 128235	123 134	134 144.5

144.5	220'	Limestone and limey bx	<p>Grey bedded lst, limey grit and limestone bx, sim to 7-123' but with <lst and > bx. Bedding dom @45° to C/A.</p> <p><u>185 - 186'</u> carb vning + rusty frags in fine limey bx</p> <p><u>189.5 - 196'</u> Sleeper Vn Intense silic'd, bx'd, vuggy. Minor v fine diss py.</p> <p><u>197 - 197.5</u> Int silic'd (v poor recov), sim to Sleeper zone above</p> <p><u>209 - 210'</u> mod silic'd, sim to 189.5 - 196'</p>	<p><u>189.5 - 196'</u> intensely silic'd, bx</p> <p><u>197 - 197.5'</u> int silic'd</p> <p><u>209 - 210'</u> mod silic'd</p>	minor py				
						128236	180	189.5	
						128237	189.5	196	
						128238	196	200	
						128239	200	210	

Hole: 96K-14 Purpose: To test under the high grade Au zone in trench for a south plunging zone.

Northing: 5,441,921.64 UTM Northing
 Easting: 388,559.34 UTM Easting
 Azimuth: 009°
 Dip: -40°
 Depth: 350'

Drilled Sept 19-23, 1996
 Drilled by: Bergeron Drilling
 Logged by: Linda Caron
 Core stored: Boundary Falls core shack

Interval		Rock type	Description	Alteration	Mineralization	Sample		
From (feet)	To (feet)					Number	From (feet)	To (feet)
0	8'	Overburden						
8	253'	Limestone	<p>Massive, pale grey fng lst, local v weak bedding @ v low core angles. Drilling parallel to strike of bedding, v steep bedding as seen on surface. Minor coarser gritty beds. Minor chl+py+magnetite on fracs, esp in darker grey gritty beds.</p> <p><u>100 - 190'</u> core very broken</p> <p><u>160 - 206'</u> Limestone with minor local calc silicate skarning and minor chl+py+calcite+magnetite and massive magnetite skarn beds and stringers as detailed below.</p> <p><u>161 - 161.5'</u> Banded py-mag-chl + calcite skarn @ 45° to C/A. Minor pale pink-green calc silicate alt'n of lst adj to skarny bed.</p> <p><u>180 - 181' & 182 - 183' & 183 - 184' & 203 - 206'</u> Massive and stringers of mag (may be banded with py) + py + chl, up to 6" thickness, dom @ 45° to C/A.</p> <p><u>235 - 240'</u> weak calc silicate banding</p>	<p><u>160 - 206'</u> local py-mag-chl-cc skarn as detailed</p> <p><u>235 - 240'</u> weak calc silicate banding</p>	minor py	<p>128246</p> <p>128247</p> <p>128240</p> <p>128241</p> <p>128242</p>	<p>161</p> <p>180</p> <p>182</p> <p>183</p> <p>203</p>	<p>161.5</p> <p>181</p> <p>183</p> <p>184</p> <p>206</p>
253	266'	Syenite dyke	Pale pink, med grained fsp glomeroporphyritic syenite dyke with muddy grey chilled margins. Sharp upper and lower contacts @ 60° to C/A.					
266	350'	Limestone	Massive pale grey lst as above, with low ang bedding (drilling par to strike, steep dip). Weak local calc-silicate alt'n. V minor py-mag-cc-chl skarny beds and minor chl + py on fracs.	Weak local calc silicate alt'n. V minor py-mag-chl-cc skarn ie.294-295'		<p>128243</p> <p>128244</p>	<p>292</p> <p>335</p>	<p>298</p> <p>338</p>

			325 - 350' mod py-mag-chl stringers @ 20-40° to C/A @350' EOH	325 - 350' mod py-mag-chl stringers		128245	345	350
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APPENDIX 2
ANALYTICAL RESULTS

COMP: KETTLE RIVER RESOURCES LTD
 PROJ: R.BELL
 ATTN: LINDA CARON

MIN-EN LABS — ICP REPORT
 8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
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96 K-1

FILE NO: 6V-0418-RJ1
 DATE: 96/07/25
 * rock • (ACT:F31)

SAMPLE NUMBER	AG PPM	AL %	AS PPM	BA PPM	BE PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	GA PPM	K %	LI PPM	MG %	MN PPM	MO PPM	NA %	NI PPM	P PPM	PB PPM	SB PPM	SN PPM	SR PPM	TH PPM	TI %	U PPM	V PPM	W PPM	ZN PPM	Au-fire PPB
127801	3.1	.34	189	48	.2	7	>15.00	.1	5	16	14	.65	20	.06	11	.42	512	10	.01	18	880	12	8	1	2120	1	.01	1	17.5	1	40	3
127802	3.1	.40	194	42	.2	7	>15.00	.1	5	14	17	.81	18	.05	12	.48	564	10	.01	19	670	9	8	1	1984	1	.01	1	17.6	3	50	1
127803	3.3	.25	202	43	.2	8	>15.00	.1	4	14	14	.53	25	.06	9	.38	413	9	.01	14	890	15	9	1	2297	1	.01	1	17.3	2	33	1
127804	3.3	.31	212	43	.2	6	>15.00	.1	5	14	20	.63	23	.07	9	.45	375	9	.01	15	720	13	8	1	2467	1	.01	1	17.7	1	33	1
127808	3.5	.10	236	38	.2	9	>15.00	.1	4	12	7	.37	27	.02	4	.23	936	8	.01	9	650	32	11	1	2690	1	.01	1	14.2	2	14	2
127809	1.8	.21	212	41	.3	9	>15.00	.1	5	15	19	.52	24	.04	6	.32	954	9	.01	14	920	61	11	1	1516	1	.01	1	16.8	2	24	8
127810	2.0	1.32	45	63	.6	1	7.93	.1	7	21	6	2.05	1	.14	15	.94	547	11	.01	11	1360	9	2	1	648	1	.01	1	25.1	1	48	6
127811	3.2	.20	175	37	.2	8	>15.00	.1	4	14	16	.56	24	.05	4	.30	544	9	.01	13	670	25	9	1	2165	1	.01	1	16.8	2	33	5
127812	3.1	.20	174	50	.2	7	>15.00	.1	5	13	12	.64	21	.05	5	.36	558	10	.01	16	750	14	8	1	2204	1	.01	1	16.2	2	39	8
127813	3.4	.11	198	154	.2	8	>15.00	.1	4	13	9	.43	27	.03	3	.27	604	10	.01	12	940	21	10	1	2383	1	.01	1	17.7	2	20	3
127814	3.9	.12	210	51	.2	9	>15.00	.1	4	13	15	.49	22	.03	3	.28	1301	10	.01	13	640	30	12	1	2612	1	.01	1	16.7	2	30	9
127816	2.4	.09	218	47	.2	12	>15.00	.1	4	13	8	.41	25	.02	4	.25	1240	8	.01	11	560	24	12	1	2835	1	.01	1	12.3	3	30	23
127817	4.0	.06	185	56	.2	11	>15.00	.1	3	12	5	.31	31	.02	3	.20	742	7	.01	8	400	23	12	1	3485	1	.01	1	9.1	2	10	2
127818	3.7	.16	182	58	.1	9	>15.00	.1	3	13	8	.44	27	.03	5	.28	535	7	.01	12	570	17	10	1	2976	1	.01	1	10.3	2	24	4
127819	3.4	.18	183	38	.2	9	>15.00	.1	4	14	9	.50	25	.05	8	.33	505	8	.01	11	660	16	9	1	2743	1	.01	1	10.7	2	17	2
127820	3.6	.12	182	44	.2	9	>15.00	.1	4	13	14	.42	27	.04	5	.28	613	8	.01	11	530	18	10	1	3413	1	.01	1	10.5	2	14	2

COMP: KETTLE RIVER RESOURCES LTD
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MIN-EN LABS — ICP REPORT
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96K-2

FILE NO: 6V-0422-RJ1
 DATE: 96/07/26
 * rock * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL %	AS PPM	BA PPM	BE PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	GA PPM	K %	LI PPM	MG %	MN PPM	MO PPM	NA %	NI PPM	P PPM	PB PPM	SB PPM	SN PPM	SR PPM	TH PPM	TI %	U PPM	V PPM	W PPM	ZN PPM	Au-fire PPB
127821	3.4	.23	190	27	.3	8	>15.00	.1	4	17	15	.56	23	.03	9	.34	572	7	.01	15	960	21	10	1	2261	1	.01	1	13.4	2	61	2
127822	2.8	.21	212	23	.3	8	>15.00	.1	4	16	12	.51	31	.03	7	.34	511	7	.01	11	710	19	10	1	2342	1	.01	1	13.1	2	29	4
127823	2.8	.80	210	26	.5	6	>15.00	.1	7	27	15	1.07	9	.05	22	.91	792	10	.01	24	970	1	6	1	1960	1	.01	1	29.9	3	267	4
127824	2.7	.39	198	20	.3	7	>15.00	.1	4	18	12	.64	27	.03	12	.46	662	8	.01	16	750	11	10	1	1663	1	.01	1	19.3	2	67	8
127851	2.6	.36	219	101	.3	6	>15.00	.1	5	19	14	.68	24	.06	12	.60	610	9	.01	16	680	8	8	1	1908	1	.01	1	18.3	4	50	3
127853	2.7	.36	211	46	.3	7	>15.00	.1	5	20	14	.69	25	.04	9	.54	789	9	.01	17	820	13	9	1	2212	1	.01	1	17.2	2	36	2
127854	2.9	.26	205	43	.2	7	>15.00	.1	4	17	10	.59	29	.04	8	.46	662	9	.01	15	720	20	10	1	2293	1	.01	1	17.1	2	38	5
127855	2.7	.29	181	122	.2	8	>15.00	.1	5	17	24	.77	21	.05	8	.39	1343	10	.01	20	940	46	10	1	1706	1	.01	1	17.5	2	40	7
127856	2.5	.42	168	49	.3	7	>15.00	.1	6	21	21	.90	19	.07	12	.52	963	8	.01	19	650	12	8	1	1461	1	.01	1	14.3	3	81	5
127857	2.6	.26	171	109	.3	5	>15.00	.1	5	15	12	.88	25	.05	6	.44	736	8	.01	14	520	17	8	1	1800	1	.01	1	13.4	2	39	6
127859	2.9	.37	159	52	.4	5	>15.00	.1	5	19	32	.86	26	.07	10	.39	642	12	.01	19	1410	15	10	1	1729	1	.01	1	16.2	2	71	6
127860	2.8	.24	163	42	.3	7	>15.00	.1	5	15	14	.67	30	.04	7	.33	697	8	.01	17	730	18	10	1	2093	1	.01	1	11.4	2	28	8
127861	2.9	.19	162	40	.3	9	>15.00	.1	4	16	11	.56	27	.04	5	.26	596	7	.01	14	950	20	11	1	2475	1	.01	1	12.9	2	28	15
127863	2.9	.11	175	31	.3	8	>15.00	.1	5	14	11	.50	33	.03	4	.25	300	6	.01	11	710	21	11	1	3058	1	.01	1	11.4	2	32	7
127864	2.7	.22	168	26	.3	7	>15.00	.1	4	16	15	.53	27	.03	7	.33	382	7	.01	15	740	15	11	1	2424	1	.01	1	14.1	2	33	5
127866	2.6	.39	129	39	.4	6	>15.00	.1	5	19	12	.80	24	.05	13	.39	404	7	.01	20	1510	15	9	1	2006	1	.01	1	19.5	2	37	6
127867	2.6	.30	164	43	.4	9	>15.00	.1	5	18	12	.65	25	.05	9	.36	978	7	.01	17	1020	21	10	1	2089	1	.01	1	16.0	2	28	4
127868	2.7	.26	168	29	.4	11	>15.00	.1	5	17	14	.56	29	.04	8	.35	748	8	.01	18	790	19	10	1	2090	1	.01	1	13.5	2	28	3
127869	2.9	.21	174	38	.3	11	>15.00	.1	5	15	12	.53	32	.04	8	.33	573	8	.01	14	730	18	11	1	2489	1	.01	1	15.5	2	25	4
127870	2.7	.15	168	41	.3	9	>15.00	.1	4	14	12	.47	27	.03	7	.31	415	9	.01	12	610	16	11	1	3156	1	.01	1	14.4	2	22	3
127871	3.0	.13	173	83	.3	11	>15.00	.1	4	14	11	.49	30	.04	7	.33	822	13	.01	14	910	23	11	1	3191	1	.01	1	17.0	2	21	2
127872	3.1	.23	161	65	.3	8	>15.00	.1	5	16	13	.62	27	.05	8	.44	597	11	.01	19	900	16	9	1	2596	1	.01	1	19.3	2	33	3
127873	3.2	.09	166	45	.2	12	>15.00	.1	4	13	6	.38	23	.02	6	.25	1775	7	.01	12	530	26	12	1	3161	1	.01	1	11.8	2	11	8
127874	3.2	.12	183	44	.2	12	>15.00	.1	4	14	7	.44	25	.02	6	.28	1598	7	.01	13	500	27	12	1	3218	1	.01	1	10.5	2	12	6

COMP: KETTLE RIVER RESOURCES LTD
 PROJ: R.BELL
 ATTN: LINDA CARON

MIN-EN LABS — ICP REPORT
 8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
 TEL:(604)327-3436 FAX:(604)327-3423

96K-3

FILE NO: 6V-0439-RJ1+2
 DATE: 96/07/31
 * rock * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL %	AS PPM	BA PPM	BE PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	GA PPM	K %	LI PPM	MG %	MN PPM	MO PPM	NA %	NI PPM	P PPM	PB PPM	SB PPM	SN PPM	SR PPM	TH PPM	TI %	U PPM	V PPM	W PPM	ZN PPM	Au-fire PPB
127876	2.5	.33	320	24	.2	4	>15.00	.1	4	17	19	.64	18	.05	10	.35	532	8	.01	18	820	12	7	1	1636	1	.01	1	12.5	1	38	1
127877	2.6	.38	312	23	.2	4	>15.00	.1	4	18	12	.70	17	.04	10	.42	461	9	.01	17	760	9	6	1	1704	1	.01	1	13.1	3	43	1
127878	2.6	.44	330	33	.3	5	>15.00	.1	4	18	17	.74	13	.05	12	.48	582	8	.01	16	750	9	6	1	1942	1	.01	1	16.1	3	46	6
127879	2.7	.36	326	36	.3	6	>15.00	.1	4	16	15	.60	17	.05	11	.39	494	9	.01	16	900	9	7	1	2032	1	.01	1	16.0	3	37	2
127880	2.7	.52	343	39	.4	4	>15.00	.1	5	21	23	.89	13	.06	14	.57	541	10	.01	21	890	5	6	1	1994	1	.01	1	20.9	3	49	4
127881	2.5	2.25	149	496	.8	1	8.41	.1	27	32	267	4.25	1	.08	29	2.17	1657	20	.01	27	1460	1	1	3	613	1	.06	1	132.3	1	82	10
127882	2.6	.80	268	31	.3	3	>15.00	.1	8	32	47	1.65	1	.06	21	.75	1240	12	.01	22	570	2	4	1	696	1	.01	1	23.4	2	44	6
127883	2.5	.37	305	71	.2	5	>15.00	.1	5	19	14	.79	10	.08	8	.35	896	9	.01	20	1140	13	7	1	1212	1	.01	1	16.7	2	25	5
127884	2.8	.70	256	51	.4	3	>15.00	.1	30	21	37	1.77	1	.06	13	.63	1254	14	.01	19	710	60	6	1	1760	1	.01	1	33.8	3	40	5
127885	2.6	.49	283	44	.4	3	>15.00	.1	6	18	27	1.07	11	.08	8	.47	888	10	.01	17	660	12	7	1	1801	1	.01	1	20.7	3	52	1
127886	2.4	1.61	139	94	1.1	1	>15.00	.1	24	22	53	4.41	1	.14	24	1.41	1502	20	.01	23	1570	34	1	3	1554	1	.01	1	60.9	1	80	8
127887	2.6	.46	273	45	.4	3	>15.00	.1	6	26	23	1.20	6	.06	12	.38	1250	11	.01	27	710	14	7	1	1184	1	.01	1	17.9	3	25	4
127888	2.6	.46	268	37	.4	4	>15.00	.1	6	24	26	1.01	12	.06	12	.33	786	9	.01	23	1020	10	7	1	923	1	.01	1	15.3	3	31	12
127889	2.6	.56	248	43	.6	3	>15.00	.1	6	21	19	1.15	10	.08	11	.45	469	12	.01	27	1710	8	6	1	1768	1	.01	1	22.4	3	43	9
127890	2.5	.41	295	53	.5	4	>15.00	.1	5	15	13	.87	15	.07	9	.42	479	9	.01	21	940	4	6	1	2010	1	.01	1	14.1	3	34	1
127891	2.4	.40	279	35	.7	6	>15.00	.1	4	18	22	.79	10	.05	8	.34	1030	11	.01	15	650	13	7	1	1446	1	.01	1	14.2	3	27	2
127892	2.7	.35	322	37	.4	6	>15.00	.1	4	17	11	.73	18	.05	8	.34	633	8	.01	16	880	15	8	1	1735	1	.01	1	12.7	3	35	1
127893	2.5	.31	308	39	.4	5	>15.00	.1	4	17	9	.69	16	.05	9	.35	636	9	.01	16	760	13	8	1	1819	1	.01	1	12.7	3	34	1
127894	2.8	.25	314	25	.3	6	>15.00	.1	4	15	10	.67	17	.04	7	.33	833	8	.01	16	570	14	8	1	1769	1	.01	1	11.8	3	27	1
127895	2.5	.47	291	42	.3	3	>15.00	.1	5	22	14	.87	14	.06	10	.47	391	10	.01	23	1110	8	6	1	1606	1	.01	1	17.2	3	44	4
127896	2.9	.32	342	42	.3	5	>15.00	.1	4	16	13	.76	18	.05	7	.41	558	10	.01	15	710	13	7	1	2227	1	.01	1	14.5	3	36	1
127897	2.9	.30	314	44	.3	5	>15.00	.1	4	19	10	.69	17	.05	7	.36	839	9	.01	16	1060	12	8	1	2474	1	.01	1	15.3	4	24	1
127898	3.3	.21	346	73	.2	7	>15.00	.1	4	15	9	.65	9	.04	6	.33	1675	9	.01	16	630	15	9	1	2413	1	.01	1	16.1	3	20	12
127899	1.6	.17	345	89	.3	7	>15.00	.1	4	13	7	.54	14	.05	5	.33	1252	9	.01	12	580	19	8	1	2689	1	.01	1	16.8	2	19	1
127900	3.4	.35	265	109	.3	7	>15.00	.1	6	18	9	1.71	1	.07	10	.49	2895	12	.01	20	630	15	7	1	2380	1	.01	1	38.5	3	42	2
128851	4.7	.13	311	102	.3	8	>15.00	.1	4	13	5	1.36	1	.03	5	.31	7009	11	.01	22	610	44	10	1	3337	1	.01	1	20.3	4	14	9
128852	2.9	.10	406	51	.3	12	>15.00	.1	4	13	19	.52	1	.02	4	.27	3045	10	.01	13	700	28	11	1	2927	1	.01	1	14.6	2	13	8
128853	2.3	.06	417	39	.3	12	>15.00	.1	3	12	6	.38	17	.02	4	.24	1846	8	.01	9	550	25	11	1	2895	1	.01	1	11.7	2	10	1
128854	1.6	.13	395	40	.3	12	>15.00	.1	4	13	10	.60	1	.03	5	.27	3307	10	.01	13	610	33	11	1	2175	1	.01	1	13.8	2	12	15
128855	3.4	.17	377	58	.3	11	>15.00	.1	4	14	5	.86	1	.03	6	.33	3637	9	.01	16	790	27	10	1	2902	1	.01	1	13.8	2	11	8
128856	3.4	.11	385	55	.3	12	>15.00	.1	3	13	5	.53	8	.03	5	.27	2407	9	.01	11	610	31	11	1	3197	1	.01	1	11.8	2	14	1
128857	1.8	.25	206	155	.3	10	>15.00	.1	8	17	23	3.76	1	.02	8	.55	>10000	36	.01	44	440	105	7	3	2396	1	.01	1	18.8	3	46	4
128858	3.6	.05	409	141	.2	12	>15.00	.1	3	11	4	.34	21	.03	5	.24	1453	6	.01	9	480	21	10	1	3590	1	.01	1	9.7	2	8	1
128859	1.7	.05	413	97	.2	12	>15.00	.1	3	11	5	.31	28	.02	4	.24	863	7	.01	8	530	16	11	1	3724	1	.01	1	10.2	2	7	5
128860	.4	.08	460	78	.3	13	>15.00	.1	3	13	7	.29	31	.04	5	.32	667	7	.01	7	530	18	11	1	2802	1	.01	1	12.5	2	11	1
128861	4.2	.24	405	153	.4	14	>15.00	.1	4	27	11	.41	27	.04	8	.27	510	9	.01	11	620	40	10	1	3446	1	.03	1	43.0	6	18	2
128862	3.7	.11	418	56	.3	11	>15.00	.1	4	14	9	.41	29	.03	5	.28	554	8	.01	9	840	12	10	1	3719	1	.01	1	14.3	2	11	1
128863	3.9	.17	432	57	.2	10	>15.00	.1	4	16	9	.48	29	.04	7	.38	370	8	.01	12	790	11	10	1	3997	1	.01	1	17.9	2	14	1
128864	1.7	.11	424	58	.3	11	>15.00	.1	4	13	7	.39	28	.03	5	.33	473	9	.01	10	770	15	9	1	3310	1	.01	1	14.3	2	14	6
128865	2.2	.12	439	44	.3	13	>15.00	.1	4	14	8	.43	32	.04	6	.34	513	8	.01	11	680	14	11	1	3490	1	.01	1	15.4	2	16	1
128866	3.6	.26	395	49	.2	11	>15.00	.1	4	17	13	.48	27	.06	8	.35	422	10	.01	12	730	15	10	1	3391	1	.01	1	23.9	2	25	1

COMP: KETTLE RIVER RESOURCES LTD
 PROJ: R.BELL
 ATTN: LINDA CARON

MIN-EN LABS — ICP REPORT
 8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
 TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 6V-0442-RJ1+2
 DATE: 96/08/01
 * rock * (ACT:F31)

96K-4

SAMPLE NUMBER	AG PPM	AL %	AS PPM	BA PPM	BE PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	GA PPM	K %	LI PPM	MG %	MN PPM	MO PPM	NA %	NI PPM	P PPM	PB PPM	SB PPM	SN PPM	SR PPM	TH PPM	TI %	U PPM	V PPM	W PPM	ZN PPM	Au-fire PPB
128901	2.4	.35	109	153	.3	3	>15.00	.1	4	18	18	.73	15	.07	9	.41	199	8	.01	15	890	9	7	1	2669	1	.01	1	15.2	3	41	17
128902	2.5	.33	125	125	.3	3	>15.00	.1	4	19	14	.67	15	.05	9	.45	314	7	.01	14	890	8	6	1	2192	1	.01	1	16.0	3	36	7
128903	2.6	.50	128	46	.3	3	>15.00	.1	4	22	24	.80	2	.07	12	.60	562	10	.01	20	1050	5	5	1	1852	1	.01	1	17.6	3	59	2
128904	2.6	.32	120	76	.3	3	>15.00	.1	4	15	21	.66	17	.05	11	.42	261	8	.01	15	720	10	7	1	2226	1	.01	1	14.4	3	38	6
128905	2.5	.29	118	59	.3	4	>15.00	.1	3	17	15	.59	18	.04	9	.37	255	7	.01	12	950	11	7	1	2832	1	.01	1	15.1	3	39	1
128906	2.5	.31	126	45	.4	3	>15.00	.1	4	15	23	.74	15	.05	10	.39	519	9	.01	16	930	11	6	1	2809	1	.01	1	15.4	3	43	6
128907	2.1	.96	105	44	.3	1	>15.00	.1	7	25	20	1.57	1	.08	21	.96	702	13	.01	28	1170	1	5	1	1560	1	.01	1	22.7	1	107	1
128908	2.3	.33	133	38	.3	5	>15.00	.1	3	14	9	.65	12	.06	10	.42	562	9	.01	14	770	12	7	1	2159	1	.01	1	18.4	3	37	1
128909	2.6	.21	140	34	.3	5	>15.00	.1	3	14	10	.48	24	.03	8	.31	301	8	.01	10	730	13	8	1	2781	1	.01	1	17.8	2	25	2
128910	2.4	.23	118	47	.3	5	>15.00	.1	3	10	9	.43	20	.05	7	.30	254	6	.01	8	690	11	7	1	2630	1	.01	1	12.7	1	25	5
128911	2.3	.22	126	30	.3	5	>15.00	.1	3	14	13	.48	20	.04	8	.34	233	8	.01	11	810	11	7	1	2249	1	.01	1	19.1	2	24	1
128912	2.4	.33	132	80	.3	5	>15.00	.1	3	15	16	.63	16	.06	11	.44	334	9	.01	16	810	10	7	1	2363	1	.01	1	22.0	3	30	4
128913	2.3	.43	119	54	.4	6	>15.00	.1	4	18	13	.77	12	.07	9	.43	500	8	.01	18	1130	18	7	1	2223	1	.01	1	19.8	3	39	2
128914	2.8	.54	121	48	.5	6	>15.00	.1	5	32	59	1.02	1	.06	14	.52	1010	9	.01	23	1110	24	8	1	1913	1	.01	1	18.0	4	45	4
128915	2.5	.30	135	40	.3	5	>15.00	.1	3	16	15	.60	15	.05	10	.38	664	7	.01	15	780	19	8	1	2404	1	.01	1	15.8	3	26	2
128916	2.4	.37	106	34	.4	5	>15.00	.1	4	18	17	.69	12	.04	12	.39	596	8	.01	16	960	17	8	1	1997	1	.01	1	18.3	3	38	1
128917	2.6	.31	136	31	.4	6	>15.00	.1	3	16	15	.56	16	.04	9	.37	505	6	.01	15	820	18	8	1	1868	1	.01	1	14.8	3	34	3
128918	2.5	.36	116	35	.4	4	>15.00	.1	4	15	16	.68	7	.05	8	.37	988	9	.01	16	810	44	7	1	1580	1	.01	1	13.8	3	32	8
128919	2.4	.53	115	47	.5	3	>15.00	.1	4	16	15	.96	3	.07	13	.55	728	10	.01	16	1050	24	6	1	1616	1	.01	1	16.3	3	42	16
128920	2.3	.34	98	32	.4	4	>15.00	.1	4	15	13	.66	12	.04	10	.38	578	7	.01	15	820	14	7	1	2032	1	.01	1	13.2	3	35	6
128921	2.4	.40	119	37	.5	3	>15.00	.1	4	16	16	.71	13	.06	9	.43	526	9	.01	15	860	11	7	1	1972	1	.01	1	15.8	3	39	2
128922	2.1	.31	102	39	.4	4	>15.00	.1	3	14	9	.59	9	.06	7	.33	846	7	.01	16	870	15	7	1	1616	1	.01	1	12.9	2	34	22
128923	2.1	.26	112	40	.4	5	>15.00	.1	3	12	11	.55	10	.05	7	.27	916	7	.01	12	740	17	7	1	1775	1	.01	1	11.8	1	24	1
128924	2.4	.29	103	57	.4	3	>15.00	.1	4	15	16	.72	10	.07	5	.33	930	9	.01	13	960	13	7	1	2239	1	.01	1	16.6	3	28	3
128925	1.0	1.35	10	68	.7	1	3.15	.1	8	27	11	2.62	1	.15	19	1.08	503	14	.03	11	1630	74	1	1	458	1	.01	1	27.5	1	65	2
128976	2.0	.30	118	80	.2	4	>15.00	.1	3	15	10	.67	8	.06	6	.42	890	10	.01	15	940	17	6	1	2398	1	.01	1	17.2	1	30	2
128977	2.4	.18	120	40	.2	5	>15.00	.1	3	13	12	.44	20	.05	6	.35	383	8	.01	11	670	11	7	1	2806	1	.01	1	14.3	1	33	5
128978	2.6	.21	115	43	.3	4	>15.00	.1	4	13	13	.62	11	.05	6	.37	981	9	.01	15	670	16	7	1	2466	1	.01	1	18.8	2	34	10
128979	2.4	.43	105	437	.3	2	>15.00	.1	5	14	10	.91	11	.07	7	.48	625	10	.01	13	830	9	7	1	2629	1	.01	1	20.5	3	33	9
128980	2.6	.11	126	59	.2	6	>15.00	.1	3	11	6	.35	26	.04	4	.24	530	7	.01	7	470	17	8	1	3431	1	.01	1	9.7	2	11	1
128981	2.4	.31	128	62	.3	5	>15.00	.1	4	16	8	.66	17	.09	7	.40	592	8	.01	15	620	12	7	1	2848	1	.01	1	15.6	2	18	2

COMP: KETTLE RIVER RESOURCES LTD
 PROJ: R.BELL
 ATTN: LINDA CARON

MIN-EN LABS — ICP REPORT
 8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
 TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 6V-0450-RJ1+2
 DATE: 96/08/02
 * rock * (ACT:F31)

96 K-5

SAMPLE NUMBER	AG PPM	AL %	AS PPM	BA PPM	BE PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	GA PPM	K %	LI PPM	MG %	MN PPM	MO PPM	NA %	NI PPM	P PPM	PB PPM	SB PPM	SN PPM	SR PPM	TH PPM	TI %	U PPM	V PPM	W PPM	ZN PPM	Au-fire PPB
128982	2.4	.25	150	95	.4	2	>15.00	.1	4	18	17	1.07	1	.04	9	.86	1520	13	.01	16	600	14	2	1	2393	1	.01	1	16.0	2	19	19
128983	3.2	.15	155	19	.2	6	>15.00	.1	3	13	10	.45	19	.04	5	.29	863	7	.01	11	550	25	9	1	2434	1	.01	1	12.2	2	11	40
128984	3.2	.06	140	16	.2	8	>15.00	.1	3	10	8	.30	29	.03	4	.24	497	7	.01	7	350	19	10	1	3057	1	.01	1	9.3	2	9	3
128985	3.3	.13	155	22	.5	8	>15.00	.1	3	14	12	.36	24	.03	6	.27	586	7	.01	9	540	17	10	1	2708	1	.01	1	12.5	2	12	10
128986	3.2	.16	154	34	.3	6	>15.00	.1	3	13	7	.49	23	.05	6	.27	824	7	.01	8	480	24	11	1	3031	1	.01	1	12.6	2	11	25
128987	1.2	1.02	1	33	.7	1	2.24	.1	6	22	11	2.62	1	.10	14	.60	711	13	.04	9	1020	11	3	1	210	1	.01	1	23.8	1	53	10
128988	3.8	.11	143	75	.3	8	>15.00	.1	3	13	9	.54	1	.04	5	.30	2243	8	.01	12	600	28	11	1	2597	1	.01	1	12.3	2	13	9
128989	4.7	.22	152	181	.3	6	>15.00	.1	6	16	12	1.47	1	.02	9	.73	4759	14	.01	24	490	24	6	1	2290	1	.01	1	24.2	3	30	14
128990	4.1	.18	125	81	.3	8	>15.00	.1	4	12	92	.79	1	.06	5	.25	2622	9	.01	15	610	32	11	1	1819	1	.01	1	14.8	2	12	15
128991	3.5	.06	168	56	.2	8	>15.00	.1	3	11	9	.44	22	.03	4	.31	829	8	.01	9	500	18	9	1	2551	1	.01	1	10.9	1	9	2
128992	7.2	.11	182	53	.3	8	>15.00	.1	4	12	12	.41	28	.04	6	.34	486	9	.01	12	510	14	11	1	3422	1	.01	1	12.9	2	59	8
128993	4.5	.17	177	166	.2	7	>15.00	.1	3	14	5	.57	12	.05	7	.43	1308	9	.01	12	610	17	10	1	2545	1	.01	1	13.3	1	14	6
128994	4.2	.11	173	61	.2	8	>15.00	.1	3	13	7	.57	17	.03	7	.34	1326	8	.01	12	710	21	11	1	3052	1	.01	1	14.3	2	11	7
128995	4.1	.10	182	43	.2	9	>15.00	.1	3	13	6	.34	29	.03	6	.29	756	8	.01	10	640	17	12	1	3493	1	.01	1	12.3	2	9	3
128996	4.2	.19	171	57	.2	8	>15.00	.1	3	14	6	.49	1	.03	6	.30	2479	7	.01	12	640	24	12	1	2377	1	.01	1	14.1	2	10	1
128997	5.1	.10	173	71	.2	9	>15.00	.1	3	12	7	.42	6	.03	6	.26	2320	8	.01	12	650	26	12	1	3005	1	.01	1	13.0	2	17	3
128998	3.9	.05	176	80	.2	9	>15.00	.1	3	12	6	.40	1	.02	5	.25	3173	7	.01	11	620	28	12	1	3369	1	.01	1	12.6	2	8	2
128999	4.9	.15	149	119	.2	10	>15.00	.1	3	15	12	.95	1	.03	8	.37	4139	9	.01	18	750	28	11	1	2651	1	.01	1	16.4	4	14	20
129000	4.0	.05	168	58	.2	10	>15.00	.1	3	11	5	.32	16	.02	5	.24	1699	8	.01	10	570	22	12	1	3318	1	.01	1	10.1	2	7	4
129001	3.6	.11	141	47	.2	9	>15.00	.1	4	13	18	.96	1	.02	6	.29	3946	9	.01	18	560	30	12	1	3275	1	.01	1	13.3	2	8	9
129002	3.9	.13	164	49	.3	11	>15.00	.1	4	13	41	1.11	1	.02	6	.42	4672	10	.01	18	500	36	13	1	3001	1	.01	1	13.3	4	17	5
129003	4.0	.10	173	52	.2	8	>15.00	.1	4	14	15	.58	1	.03	6	.32	2978	9	.01	13	750	31	12	1	2707	1	.01	1	15.0	2	14	2
129004	4.8	.09	154	60	.3	8	>15.00	.1	3	13	6	.43	3	.03	3	.27	2187	8	.01	12	760	28	10	1	2617	1	.01	1	13.2	2	9	6
129005	4.1	.12	174	73	.3	8	>15.00	.1	3	12	9	.46	6	.03	6	.31	2268	9	.01	10	640	28	11	1	2622	1	.01	1	14.0	2	29	19
129006	2.3	.06	127	71	.2	6	>15.00	.1	2	10	4	.34	10	.02	4	.25	1269	6	.01	7	490	20	6	1	3077	1	.01	1	8.9	2	6	6
129007	2.9	.06	130	39	.2	6	>15.00	.1	3	10	7	.38	11	.02	4	.26	1333	7	.01	8	570	19	7	1	3063	1	.01	1	10.0	2	9	1
129008	2.7	.07	117	46	.2	7	>15.00	.1	3	11	6	.38	10	.02	4	.24	1339	7	.01	9	700	20	7	1	2933	1	.01	1	12.4	2	9	2
129009	3.7	.15	123	34	.4	6	>15.00	.1	3	15	10	.53	4	.03	6	.32	1777	8	.01	13	750	26	8	1	2681	1	.01	1	14.9	2	17	4
129010	3.2	.09	122	40	.4	6	>15.00	.1	3	13	9	.46	1	.03	5	.24	3002	8	.01	12	840	35	9	1	3275	1	.01	1	11.6	2	9	15

COMP: KETTLE RIVER RESOURCES LTD.
 PROJ: R.BELL
 ATTN: Linda Caron

MIN-EN LABS — ICP REPORT
 8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
 TEL:(604)327-3436 FAX:(604)327-3423

96X-6

FILE NO: 6V-0455-RJ1
 DATE: 96/08/07
 * rock * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL %	AS PPM	BA PPM	BE PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	GA PPM	K %	LI PPM	MG %	MN PPM	MO PPM	NA %	NI PPM	P PPM	PB PPM	SB PPM	SN PPM	SR PPM	TH PPM	TI %	U PPM	V PPM	W PPM	ZN PPM	Au-fire PPB
129011	2.3	.89	45	95	.1	1	8.72	.1	21	19	81	2.95	1	.14	15	1.09	1461	19	.01	35	870	30	1	1	694	1	.01	1	15.5	1	100	6
129012	3.2	1.35	85	56	.1	1	7.81	.1	19	23	122	2.58	1	.11	20	1.43	1469	12	.01	37	720	25	1	1	422	1	.01	1	25.5	1	121	4
129013	.1	.16	77	19	.1	10	>15.00	.1	3	10	7	.47	8	.03	7	.34	699	5	.01	11	500	14	6	1	1130	1	.01	1	10.1	3	11	2
129014	.1	.09	77	14	.1	12	>15.00	.1	3	10	10	.39	16	.03	5	.30	406	5	.01	10	520	11	6	1	1561	1	.01	1	9.7	3	8	1
129015	.1	.08	80	12	.1	11	>15.00	.1	3	10	7	.39	15	.02	5	.28	413	5	.01	12	570	10	6	1	1797	1	.01	1	10.8	3	9	2
129016	.1	.09	77	15	.1	12	>15.00	.1	3	10	6	.39	11	.02	5	.24	722	5	.01	11	480	30	7	1	1760	1	.01	1	10.1	3	10	3
129017	2.3	.62	76	28	.1	1	>15.00	.1	10	13	18	1.26	1	.05	12	.71	1446	7	.01	22	470	44	3	1	1174	1	.01	1	12.5	1	33	2
129018	2.1	1.22	99	61	.1	1	9.36	.1	18	24	45	2.02	1	.10	26	1.37	1184	9	.01	37	590	1	1	1	492	1	.01	1	16.8	1	62	3
129019	2.3	.88	67	44	.1	1	13.28	.1	15	15	23	1.77	1	.08	22	1.12	1169	9	.01	33	610	39	1	1	713	1	.01	1	11.3	1	46	1
129020	3.7	1.21	103	86	.1	1	8.72	.1	18	23	179	1.83	1	.11	27	1.32	944	8	.01	34	630	1	1	1	526	1	.01	1	13.6	1	58	2
129021	2.2	1.12	122	58	.1	1	14.27	.1	7	16	24	1.41	1	.06	29	1.32	1354	8	.01	26	570	1	1	1	941	1	.01	1	21.7	1	51	1
129022	.1	.28	80	55	.1	9	>15.00	.1	4	12	9	.82	1	.03	9	.50	2476	7	.01	18	520	21	5	1	811	1	.01	1	10.8	2	21	3
129023	2.3	.73	92	91	.1	3	>15.00	.1	4	16	4	.96	1	.08	14	.86	1441	8	.01	24	910	1	1	1	844	1	.01	1	16.5	1	26	5
129024	3.2	1.26	118	96	.1	1	13.69	.1	10	24	31	1.78	1	.13	23	1.32	2962	12	.01	39	730	5	1	1	727	1	.01	1	21.5	1	52	7

COMP: KETTLE RIVER RESOURCES LTD.

PROJ: R.BELL

ATTN: Linda Caron

MIN-EN LABS — ICP REPORT
 8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
 TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 6V-0456-RJ1

DATE: 96/08/07

* rock * (ACT:F31)

96K-7

SAMPLE NUMBER	AG PPM	AL %	AS PPM	BA PPM	BE PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	GA PPM	K %	LI PPM	MG %	MN PPM	MO PPM	NA %	NI PPM	P PPM	PB PPM	SB PPM	SN PPM	SR PPM	TH PPM	TI %	U PPM	V PPM	W PPM	ZN PPM	Au-fire PPB
129026	.6	1.30	65	139	.1	1	2.35	.1	8	9	4	2.27	1	.20	15	.86	419	9	.02	12	1520	10	1	1	306	12	.01	1	14.6	1	46	3
129027	.1	.34	83	60	.2	9	>15.00	.1	4	12	21	.58	1	.04	9	.48	1637	6	.01	15	480	20	6	1	397	1	.01	1	13.4	3	23	1
129028	1.1	1.50	107	134	.1	1	8.44	.1	5	32	17	1.76	1	.13	31	1.39	843	8	.01	32	850	1	1	1	435	1	.01	1	22.8	1	86	1
129029	1.3	2.04	129	79	.1	1	9.72	.1	12	22	48	2.55	1	.08	48	2.28	1127	10	.01	36	1360	1	1	2	590	1	.01	1	31.9	1	121	3
129030	2.3	1.30	79	107	.1	1	8.85	.1	20	23	80	2.39	1	.14	26	1.40	1509	10	.01	38	640	1	1	1	528	1	.01	1	15.0	1	68	6
129031	2.4	1.66	106	106	.1	1	8.94	.1	13	21	28	2.41	1	.15	33	1.91	2146	10	.01	39	830	1	1	2	551	1	.01	1	21.8	1	115	2
129032	.1	.36	106	19	.2	7	>15.00	.1	3	15	15	.46	1	.03	16	.95	654	5	.01	13	490	1	1	1	488	1	.01	1	14.4	2	27	2
129033	5.3	.18	84	26	.2	10	>15.00	.1	4	11	43	.52	3	.04	7	.56	671	6	.01	11	650	92	4	1	490	1	.01	1	9.5	2	43	11
129034	.1	.20	77	32	.2	10	>15.00	.1	3	13	5	.47	1	.04	6	.49	1196	5	.01	11	580	9	4	1	526	1	.01	1	10.4	3	12	4
129035	.4	1.17	50	38	.1	1	2.69	.1	6	7	10	2.41	1	.18	11	.80	769	10	.03	13	980	10	1	1	194	1	.01	1	9.1	1	55	5
129036	.1	.09	71	12	.2	11	>15.00	.1	2	10	4	.27	4	.02	3	.29	1041	4	.01	8	440	15	7	1	465	1	.01	1	7.8	3	11	5
129037	1.4	.40	48	29	.1	1	>15.00	.1	6	17	141	2.52	1	.02	6	.60	6282	12	.01	36	900	46	2	1	557	1	.01	1	28.6	1	18	18
129038	.1	.07	70	35	.1	8	>15.00	.1	3	10	5	.51	1	.04	3	.47	1530	5	.01	14	970	7	2	1	1023	1	.01	1	11.3	2	8	4
129039	.1	.07	69	43	.2	10	>15.00	.1	3	9	5	.41	1	.04	3	.44	1137	4	.01	12	580	6	4	1	1100	1	.01	1	9.0	3	8	2
129040	1.7	1.01	83	54	.1	1	>15.00	.1	7	22	22	2.80	1	.04	34	1.15	2862	13	.01	30	780	1	1	1	1245	1	.01	1	38.3	1	37	9

COMP: KETTLE RIVER RESOURCES LTD
 PROJ: R.BELL
 ATTN: LINDA CARON

MIN-EN LABS — ICP REPORT
 8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
 TEL:(604)327-3436 FAX:(604)327-3423

96K-10

FILE NO: 6V-0615-RJ1
 DATE: 96/09/16
 * CORE * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL %	AS PPM	BA PPM	BE PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	GA PPM	K %	LI PPM	MG %	MN PPM	MO PPM	NA %	NI PPM	P PPM	PB PPM	SB PPM	SN PPM	SR PPM	TH PPM	Tl %	U PPM	V PPM	W PPM	Zn PPM	Au-fire PPB
128806	2.9	.22	100	48	.1	2	>15.00	.1	3	16	8	.64	1	.04	5	.64	1505	6	.01	19	470	22	4	1	1122	1	.01	1	16.5	1	16	9
128807	2.3	.14	88	21	.1	1	>15.00	.3	2	15	6	.33	5	.03	3	.37	896	4	.01	12	520	16	6	1	1527	1	.01	1	12.7	1	13	8
128808	2.9	.24	89	30	.1	4	>15.00	.1	3	15	7	.55	1	.04	7	.51	1682	7	.01	17	490	15	6	1	2006	1	.01	1	16.3	1	22	27
128809	5.3	.24	90	27	.1	5	>15.00	.1	3	15	7	.55	1	.03	8	.45	1631	5	.01	16	730	18	7	1	1925	1	.01	1	13.5	1	22	43
128810	3.1	.16	85	31	.1	1	>15.00	.1	3	15	6	.45	1	.02	5	.42	1295	5	.01	15	680	17	6	1	2012	1	.01	1	15.1	1	11	3
128811	3.3	.21	87	31	.1	4	>15.00	.5	3	17	7	.43	3	.02	7	.49	933	6	.01	14	620	6	5	1	1518	1	.01	1	19.9	1	20	1
128812	3.2	.15	87	23	.2	5	>15.00	8.4	2	19	8	.34	3	.02	5	.42	1014	5	.01	12	520	21	6	1	1856	1	.01	1	18.1	2	57	2
128813	2.7	.10	78	27	.5	3	>15.00	8.9	2	15	7	.24	1	.02	2	.25	1685	4	.01	13	470	28	7	1	1526	1	.01	1	13.5	2	50	3
128824	2.2	.17	90	15	.2	5	>15.00	1.6	3	21	5	.37	2	.02	6	.41	1304	5	.01	13	550	14	7	1	1032	1	.01	1	13.1	2	18	5
128825	1.6	.55	43	86	.1	1	11.55	.1	4	33	4	.98	1	.07	12	.55	937	6	.01	29	1190	1	2	1	582	1	.01	1	29.2	1	37	1
128476	2.5	.21	78	37	.2	5	>15.00	3.4	2	23	7	.40	2	.02	6	.33	979	4	.01	15	720	13	6	1	984	1	.01	1	17.3	2	80	1
128477	4.4	.22	65	18	.2	3	>15.00	6.1	3	23	7	.41	1	.02	7	.38	1511	6	.01	16	540	15	6	1	729	1	.01	1	17.1	2	43	1
128478	2.4	.26	104	31	.2	5	>15.00	1.9	4	18	6	.54	1	.03	11	.54	1459	6	.01	20	570	16	6	1	1136	1	.01	1	20.9	1	47	6
128479	2.3	.27	52	30	.1	2	>15.00	.1	4	38	7	.68	1	.04	7	.32	1284	5	.01	21	710	8	5	1	499	1	.01	1	20.2	2	46	1
128480	2.4	.13	68	35	.1	5	>15.00	.1	3	22	7	.46	1	.01	6	.29	1946	4	.01	16	450	17	6	1	841	1	.01	1	17.2	2	23	2
128481	1.8	.19	51	30	.1	1	>15.00	.3	2	36	4	.40	1	.02	8	.33	1192	3	.01	16	770	6	3	1	796	1	.01	1	18.3	2	19	1

COMP: KETTLE RIVER RESOURCES LTD
 PROJ: R.BELL
 ATTN: LINDA CARON

MIN-EN LABS — ICP REPORT
 8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
 TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 6V-0645-RJ1
 DATE: 96/09/20
 * * (ACT:F31)

96K-11

SAMPLE NUMBER	AG PPM	AL %	AS PPM	BA PPM	BE PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	GA PPM	K %	LI PPM	MG %	MN PPM	MO PPM	NA %	NI PPM	P PPM	PB PPM	SB PPM	SN PPM	SR PPM	TH PPM	TI %	U PPM	V PPM	W PPM	ZN PPM	Au-fire PPB
128482	.1	.12	90	22	.1	4	>15.00	.7	2	16	8	.32	1	.01	4	.27	1193	4	.01	11	350	15	5	1	210	1	.01	1	10.8	1	25	25
128483	.4	.08	91	22	.1	5	>15.00	.9	2	14	6	.30	2	.02	3	.31	881	4	.01	11	410	15	4	1	817	1	.01	1	10.3	1	12	4
128484	.5	.11	105	21	.2	5	>15.00	2.6	2	12	13	.28	3	.02	4	.30	1065	4	.01	12	640	65	5	1	1076	1	.01	1	10.9	1	51	5
128485	.1	.11	97	22	.1	6	>15.00	.1	2	9	7	.32	1	.02	3	.28	1437	4	.01	13	370	34	6	1	502	1	.01	1	8.7	1	23	21
128486	.1	.12	91	21	.2	6	>15.00	.5	2	15	5	.28	1	.02	3	.24	1072	6	.01	10	510	17	6	1	978	1	.01	1	13.4	1	16	7
128487	1.6	.23	81	21	.2	4	>15.00	.1	3	22	8	.50	1	.03	5	.38	1311	19	.01	15	680	20	5	1	1066	1	.01	1	16.0	1	20	15
128488	.1	.09	104	11	.3	7	>15.00	1.6	2	12	3	.22	7	.02	3	.27	745	14	.01	10	300	15	7	1	1018	1	.01	1	11.4	1	8	7
128489	1.4	.32	96	32	.2	4	>15.00	.1	2	23	5	.56	1	.03	7	.49	1474	42	.01	15	530	34	5	1	1065	1	.01	1	14.8	1	17	14
128490	1.8	.57	77	56	.1	1	14.40	.1	4	24	8	.99	1	.07	9	.61	1216	11	.01	19	680	5	3	1	1123	1	.01	1	20.6	1	33	22
128491	2.7	1.22	167	31	.3	1	>15.00	.1	7	19	27	1.27	1	.08	30	1.67	1529	10	.01	26	460	1	1	1	946	1	.01	1	33.0	1	66	82
128492	1.2	1.36	99	73	.1	1	6.41	.1	5	46	66	1.71	1	.13	21	1.45	554	12	.01	30	650	1	1	1	254	1	.01	1	28.2	1	78	19
128493	.5	1.54	34	49	.1	1	.70	.1	9	32	7	2.91	1	.12	18	1.33	202	26	.01	20	1580	1	1	2	121	1	.01	1	30.0	1	63	37
128494	1.2	.20	69	26	.1	5	>15.00	.1	4	18	29	.90	1	.02	4	.30	3789	7	.01	24	590	35	6	1	1099	1	.01	1	17.6	1	32	16
128495	1.2	.07	72	16	.1	1	>15.00	.6	2	24	6	.37	1	.01	2	.32	646	4	.01	12	560	3	2	1	974	1	.01	1	11.4	1	24	53
128496	1.7	.11	88	18	.1	5	>15.00	.5	2	15	6	.37	1	.03	3	.36	769	6	.01	13	460	7	4	1	1220	1	.01	1	11.8	1	19	13

COMP: KETTLE RIVER RESOURCES LTD
 PROJ: R.BELL
 ATTN: LINDA CARON

MIN-EN LABS — ICP REPORT
 8282 SHERBROOKE ST., VANCOUVER, B.C. V5X 4E8
 TEL:(604)327-3436 FAX:(604)327-3423

FILE NO: 6V-0863-RJ1
 DATE: 96/10/23
 * * (ACT:F31)

96K-13, -14

SAMPLE NUMBER	AG PPM	AL %	AS PPM	BA PPM	BE PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	GA PPM	K %	LI PPM	MG %	MN PPM	MO PPM	NA %	NI PPM	P PPM	PB PPM	SB PPM	SN PPM	SR PPM	TH PPM	TI %	U PPM	V PPM	W PPM	ZN PPM	Au-fire PPB
128234	3.2	2.28	378	67	.1	1	6.44	.1	21	134	59	2.34	1	.13	59	2.91	486	12	.07	82	540	1	1	5	358	1	.12	1	60.0	1	68	5
128235	4.6	2.50	441	23	.1	1	2.19	.1	25	162	31	2.78	1	.04	63	3.69	615	11	.03	88	580	1	1	5	161	1	.10	1	60.0	1	222	5
128236	1.7	.53	200	29	.3	2	>15.00	.1	5	18	15	.99	2	.06	7	.56	460	7	.01	17	680	1	5	2	906	1	.01	1	14.9	1	29	6
128237	.7	.23	28	46	.1	1	4.75	.1	1	48	9	.41	1	.03	3	.16	137	5	.01	11	470	4	1	1	125	1	.01	1	12.6	2	46	6
128238	1.5	.19	126	12	.3	5	>15.00	.1	2	30	9	.35	4	.02	3	.26	232	4	.01	12	570	3	3	1	613	1	.01	1	18.4	2	50	7
128239	1.7	.14	124	9	.1	5	>15.00	.1	2	17	43	.44	8	.02	2	.22	328	11	.01	11	450	11	4	1	595	1	.01	1	13.7	1	25	5
128240	1.3	.55	1	424	.1	1	>15.00	.1	11	28	25	7.25	1	.07	14	.61	>10000	29	.01	93	590	94	14	13	1060	1	.01	1	57.6	1	81	49
128241	.1	.44	1	265	.1	1	>15.00	.1	12	24	18	7.79	1	.07	13	.56	>10000	38	.01	98	520	102	14	14	1067	1	.01	1	52.6	1	78	113
128242	.1	.56	1	286	.1	3	>15.00	.1	11	27	19	6.73	1	.13	19	.82	>10000	34	.01	108	630	104	13	13	1213	1	.01	1	65.1	1	211	34
128243	4.0	.20	181	49	.1	8	>15.00	.1	4	12	19	1.20	1	.02	5	.34	6402	9	.01	31	430	38	8	3	1919	1	.01	1	18.6	1	24	8
128244	2.7	.11	199	53	.1	7	>15.00	.1	4	11	6	1.02	1	.01	2	.29	4275	6	.01	25	420	30	8	2	3174	1	.01	1	22.1	1	16	6
128245	3.5	.20	200	78	.1	5	>15.00	.1	4	13	5	.75	1	.06	4	.27	2097	6	.01	24	1240	19	6	2	2452	1	.01	1	27.2	1	20	9
128246	2.4	.72	1	118	.1	1	>15.00	.1	10	21	13	6.34	1	.05	12	.73	7302	19	.01	53	680	32	8	10	1137	1	.01	1	57.3	1	58	8
128247	1.3	.54	1	155	.1	1	>15.00	.1	10	20	9	5.94	1	.07	17	.62	>10000	20	.01	70	840	58	10	11	1465	1	.01	1	68.1	1	125	7

APPENDIX 3
COST STATEMENT

COST STATEMENT

LABOUR

G. Stewart	15 days @ \$450/day	\$ 6,750.00
L. Caron	30 days @ \$200/day	6,000.00
D. Pazdzierski	10 days @ \$100/day	1,000.00
N. Braam	10 days @ \$100/day	<u>1,000.00</u>
		\$ 14,750.00

DRILLING

Bergeron Diamond Drilling		
3543 feet @ \$14.00/ft		\$ 49,602.00
reclamation, site prep, hauling water, misc		<u>5,902.92</u>
		\$ 55,504.92

ANALYTICAL COSTS

Min-En Labs, Vancouver - 30 element ICP plus Au		
265 core samples @ \$21.00 (including shipping)		<u>\$ 5,565.00</u>
		\$ 5,565.00

SUPPLIES AND TRANSPORTATION

Saw blades		\$ 1,000.00
General field supplies (bags, etc)		380.00
Vehicle rental 40 days @ \$50/day		2,000.00
Fuel		<u>220.00</u>
		\$ 3,600.00

OFFICE EXPENSES

Phone, fax		\$ 65.00
Drafting and office supplies		120.00
Misc.		<u>30.00</u>
		\$ 215.00

TOTAL: \$79,634.00

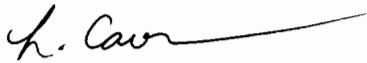
APPENDIX 4

STATEMENT OF QUALIFICATIONS

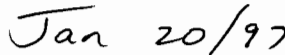
STATEMENT OF QUALIFICATIONS

I, Linda J. Caron, certify that:

1. I am an exploration geologist residing at Bubar Road (RR #2), Rock Creek, B.C.
2. I obtained a B.A.Sc. in Geological Engineering (Honours) in the Mineral Exploration Option, from the University of British Columbia (1985).
3. I graduated with an M.Sc. in Geology and Geophysics from the University of Calgary (1988).
4. I have practised my profession since 1987 and have worked in the mineral exploration industry since 1980.
5. I am a member in good standing with the Association of Professional Engineers and Geoscientists of B.C. with professional engineer status.
6. I am employed by Kettle River Resources Ltd. as an exploration geologist.



Linda Caron, P. Eng



Date