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ASSESSMENT REPORT

## 1997 SUMMIT AREA DRILL PROGRAM

(for filing on the Summit-1, Summit-2, Summit --3, and Niagra 97-1 Groups)

# NTS 82E/2 E

Lat: 49° 07' 00"N Long: 118° 31' 12"W

Kettle River Resources Ltd.Mike Rasmussen, Ph.D.Box 130, 330 Copper St.Echo Bay Minerals Co.Greenwood, B.C.Republic, WAV0H 1J0GEOLOGICAL SURVEY BRADEDecember, 1997ASSESSMUNT REPORT

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#### 1.0 SUMMARY

The Summit area 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 (Fyles, 1990). The area contains four prospects explored for gold by Echo Bay Minerals Co., Republic, WA, during 1997 under an agreement with Kettle River Resources, Greenwood, B.C. Kettle River Resources has a substantial land position in this area. The prospects explored with diamond drilling by Echo Bay Minerals Co. are the R.Bell, Bluebell, North Emma, and Emma Vein (Figure 1).

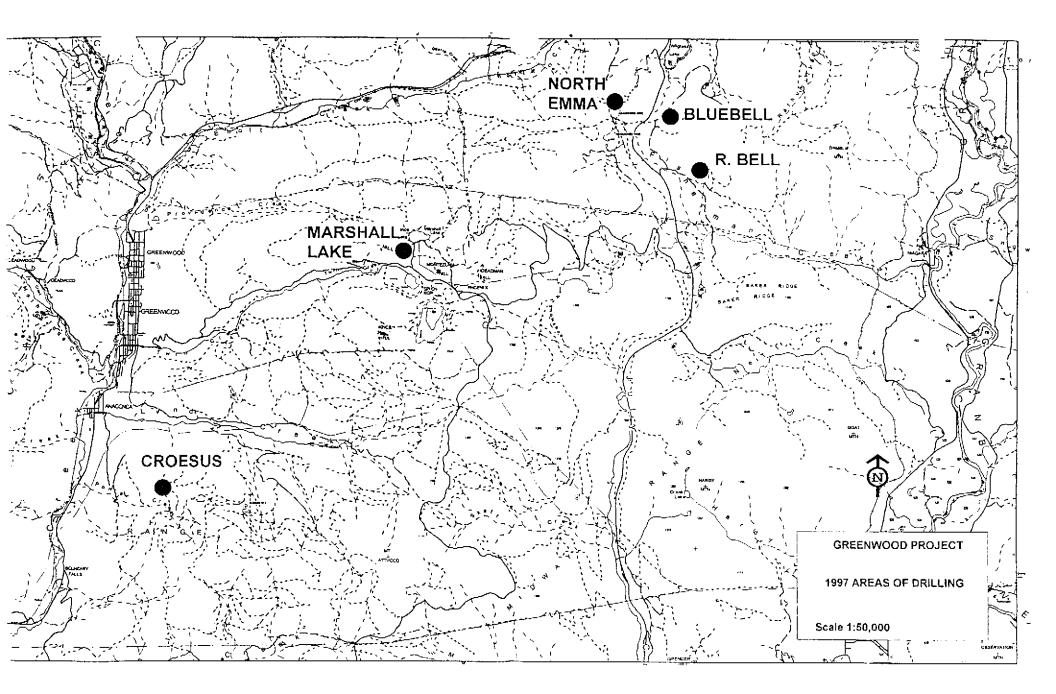
Copper skam-type mineralization, which has been the target of historic work in the area (B.C. Mine, Oro Denoro, Emma) occurs within epidotized and pyritic Brooklyn volcanic rocks and in massive epidote-gamet skam near the contact with (underlying) Brooklyn limestone. To a lesser extent, skam type mineralization 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. Anomabus gold, silver and zinc accompany the copper mineralization, Massive magnetite/manganese skam also occurs, without significant base or precious metal values.

Follow-up to anomabus gold soil values adjacent to known skam mineralization at the R.Bell prospect in 1996 by Kettle River Resources resulted in the discovery of a new limestone hosted gold zone, about 75 metres north of the main copper skam 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 anomabus 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 overal 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 anomabus gold values on surface are associated with several of these structures. In other cases, the limestone is cherty and more susceptible to shattering and cracking where cut by these structures with little introduction of silica.

A 3,172 foot, 15 hole drill program was completed in August and September of 1997, to test The area around the R.Bell for additional zones of mineralzation similar to the R.Bell (Figures 2,3). No strongly anomabus results were obtained from the drilling. At Bluebell, 843 feet in three holes were drilled, (Figures 4,5) again with no anomabus results except for a 2.5 foot interval of massive sphalerite-pyrite-chalcopyrite. At North Emma (Figures 6,7), 472 feet in three holes were drilled across the northem end of the old Emma workings under a shallow surface trench that contained high gold grades in sulfide-rich mineralization. Only 5 feet of 0.11 opt Au was intersected in this drilling. About 1000 feet north of the North Emma a trend of silicified breccia and vein breccia had been identified by Kettle River Resources (Figure 6). We drilled 343 feet in two holes on this trend (Figure 6,8), confirmed the epithermal zone at depth, but encountered no significant gold values.

This program has tested the most promising gold targets of the Summit area, and we have no recommendations to offer at this time for future gold exploration at that locality. There is some potential for copper-zinc mineralization, however, so thearea could be usefully explored for those commodities.



#### 2.0 INTRODUCTION

## 2.1 LOCATION, ACCESS AND TERRAIN

Work described in this report was done on the R.Bell Crown Grant (L 1506), Bluebell Crown Grant (L2136), and Emma Crown Grant (L 591) located about 11 kilometres east of Greenwood, as shown on Figure 1. The claims are situated east and west of Highway 3, approximately 2 km south of Wilgress Lake, in a landscape of low to moderate relief and wooded slopes. There is excellent access via old mining and logging roads leaving Highway 3 in a large pullout, about 2.5 km south of Wilgress Lake, and on Oro Denoro road from the Phoenix Rd., 1 km west of Highway 3.

The property is situated at an elevation of about 1000 metres. It is, for the most part, consists of a few open grassy slopes in generally cedar- and pine-wooded slopes. Water is available for drilling from Fisherman Creek and the old Emma workings.

#### 2.2 PROPERTY AND OWNERSHIP

For the purposes of filing assessment work, the Summit area 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 1b. - 1d.. 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.

CLAIM NAME	TENURE	TYPE	UNITS	EXPIRY
CORDICK	CG625	CG	1	
EMMA	L 591	CG	1	
R. BELL	CG1506	CG	1	
BLUEBELL	L_2136	CG	1	
ORO DENORO	L 692	CG	1	
SUMMIT 96-1	347795	LOCATED	9	09/07/200
SUMMIT 96-2	347796	LOCATED	15	09/07/200
SUMMIT 96-3	347797	LOCATED	12	05/07/200
SUMMIT 96-4	347798	LOCATED	12	04/07/200
SUMMIT 96-5	347799	LOCATED	20	05/07/200
SUMMIT 96-6	347800	LOCATED	20	05/07/200

#### SUMMIT - 1 Group

SUMMIT - 2 GROUP

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CLAIM NAME	TENURE	TYPE	UNITS	EXPIRY
CORDICK	CG625	lcg	1	- a strand and the state
EMMA	L 591	lcg	1	and the state of the
R. BELL	CG1506		1	
BLUEBELL	L 2136		1	and a second contract of second second
ORO DENORO	L 692	lcg	1	
EYE 1 FR	216651	LOCATED	1	28/01/200
BELL	339164	LOCATED_	1	10/08/200
SUMMIT 96-3	347797	LOCATED	12	05/07/200
BAT 3	215574	LOCATED	16	23/03/200
SUMMIT 96-5	347799	LOCATED	20	05/07/200
SUMMIT 96-6	1347800	LOCATED.	20	05/07/200

#### NIAGRA -97-1 GROUP

CLAIM NAME	TENURE #	TYPE	UNITS	EXPIRY
CORDICK	CG625	lCG	11	
EMMA	L 591	LCG	11	
R BELL	CG1506	CG	1	
BLUEBELL	L 2136	CG	1	
ORO DENORO	L 692	CG	]1	an and an and a statement of the statement
NG -1	353177	LOCATED	[1	18/12/2002
NG-2	353178	LOCATED	1	18/12/2002
NG-3	353179	LOCATED	11	18/12/2002
SUMMIT 96-3	347797	LOCATED	12	05/07/2003
NIAGRA	353176	LOCATED	20	20/12/2002
SUMMIT 96-6	347800	LOCATED	20	05/07/2003
ECHO 1	356216	LOCATED	<u>[1</u>	21/05/2003
ECHO 2	356217	LOCATED	1	21/05/2003
ECHO 3	356222	LOCATED	1	21/05/2003
ECHO 4	356223	LOCATED	<u> 1</u>	21/05/2003
ERWIN	L 1691	ICG	11	

\* Explry dates listed are after filing this report.

#### 2.3A HISTORY OF THE R. BELL

The following section (2.3A) is excerpted from the 1996 Assessment Report on the R.Bell Property, by L. Caron, for Kettle River Resources:

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 skam-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 Daughty, 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 skam 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.

#### 2.3B HISTORY OF THE BLUEBELL PROSPECT

1921 - A Ministry of Mines Report describes a shaft 110 feet deep with a drift driven 25 feet 60 feet below the surface.

1990-1991 A Canamax exploration program drilled one hole on the Bluebell claim, and failed to intersect a mineralized horizon.

#### 2.3C HISTORY OF THE EMMA MINE

The best reference for Emma's history is Church, B.N., 1986, Geological Setting and Mineralization in the Mount Attwood - Phoenix area of the Greenwood Mining Camp, BCMEMPR Paper 1986-2.

#### 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 STUCTURE

#### The following section is excerpted from the 1996 Assessment Report on the R.Bell Property, by L. Caron, for Kettle River Resources:

The Greenwood area has been mapped on a regional basis by Fyles (1990), and prior to this, by Little (1983) and Church (1986). The distribution of rocks in the Greenwood area is controlled by a series of faults, including both Jurassic thust faults and Tertiary extensional (and detachment) faults hence an understanding of the structure of the area is critical to understanding the geology. The reader is referred to Fyles (1990) for an in-depth description of the regional geology and structure.

Fyles' mapping shows the pre-Tertiary rocks form a series of thrust slices, which lie above a basement high grade metamorphic complex. The thrusting event is felt to be an effect of the development of the Okanagan gneiss domes, which also results in the regional northward dip of rock units (Fyles, 1990). 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 ophioite 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 Paleozic Knob Hill Group of dominantly volcanic affinity, and consist mainly of chert, greenstone and related intrusives, and serpentine. Unconformably overlying these rocks are sediments and volcanics (largely argilite, siltstone, limestone and andeste) of the late Paleozoic Attwood Group. Rocks of the Knob Hill and Attwood Groups are in turn unconformably overlain by the Triassic Brooklyn Formation, represented largely by limestone, clastic sediments and pyroclastics. In many cases in the Greenwood area, evidence for thrusting is seen by the older Knob Hill Group rocks resting over the younger Attwood Group or Brooklyn Formation rocks. The historically important skam 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 Jurassic aged Lexington porphyry, the Cretaceous Nelson intrusives, and the Eccene Coryel dykes and stocks.

Tertiary sediments and volcanics unconformably overly the older rocks with the distribution of these Tertiary rocks largely controlled by series faults. Regionally, three Tertiary fault sets are recognised, and early set gently east dipping set, a second set of low angle west dipping, listric normal detachment type faults, and a late, steep dipping, north to northeast trending set of right lateral or west side down normal faults (Fyles, 1990).

The R. Bell property is undertain 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 skam type deposits, such as the Oro Denoro, which have strong structural controls and cross-cut stratigraphy, as well as a number of deposits such as the Emma and B.C. Mine where massive sulfides (with high precious metal content) are stratabound. Stratabound mineralization also occurs at the Cyclops, Rathmullen and Lancashire Lass showings.,

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 skam-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-gamet skam near the contact with (underlying) Brooklyn limestone. To a lesser extent, skam 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. Anomabus gold,

silver and zinc accompany the copper mineralization, Massive magnetite/manganese skam also occurs, without significant base or precious metal values.

Follow-up to anomabus gold soil values adjacent to known skam mineralization resulted in the discovery of a new limestone hosted gold zone, about 75 metres north of the main copper skam 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 anomabus 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 overal 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 anomabus gold values are associated with several of these structures. In other cases, the limestone is cherty and more susceptible to shattering and cracking where cut by these structures, however there is little introduced silica.

#### 4.0 DRILLING

Twenty-three holes were drilled during August and September, 1997 as described below. Drill hole locations are plotted on Figure 3 and Figure 6 and logs are included in Appendix 1. Analytical results for core samples are contained in Appendix 2. A total of 4842 feet were drilled, and 113 samples submitted for fire assay to Custom Analytical Labs, Republic WA. Drill hole specifications and co-ordinates are tabulated below.

Table 1.	Drill progra	ns of the 1997	7 Summit Exploration effort
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Area	Dates	Footage	Holes
R. Bell	Aug. 25 - Sept. 13	3172	15
Bluebell	Sept. 14 - Sept. 22	843	3
North Emma	Sept. 23 - Sept. 30	827	5

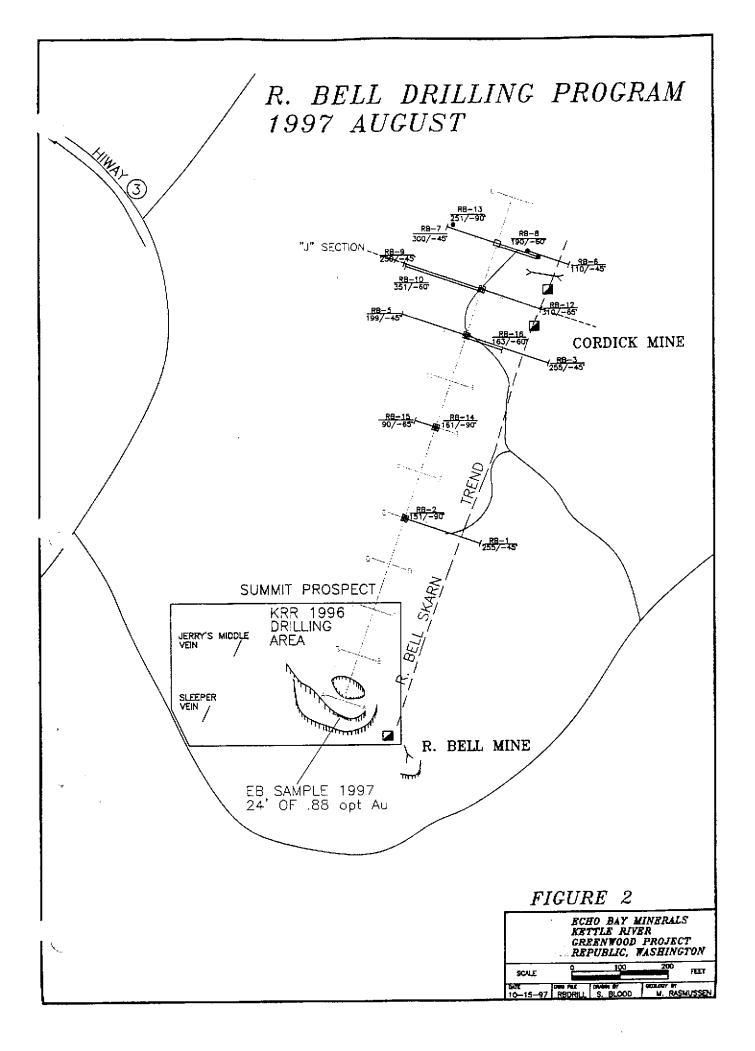
### R.Bell

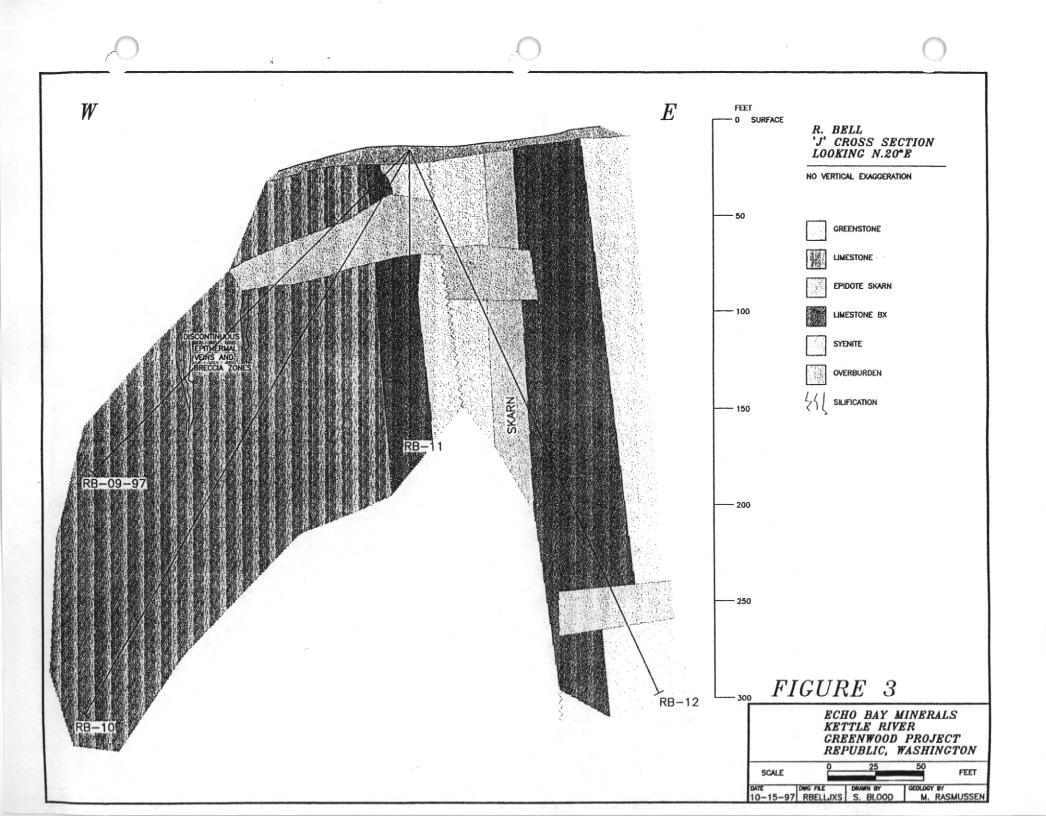
The R.Bell is in Brooklyn rocks, following a contact between marble and overlying volcaniclastic greenstone. We drilled 3172 feet in 15 holes (Figure 2, Table 2) on "R.Bell", so-named because it was designed on the premise that the skarned R.Bell fault/horizon was a significant control on the formation of the Summit veins. Just prior to drilling on the Summit, Jerry Ray and Dave LeFebure spent several days (August 18 to 24) in the Greenwood area, and visited the Summit twice, once with Linda Caron and Gerge Stewart, and once with me. Jerry argued very strongly for an epithermal interpretation of the Summit veins, George for control by the R.Bell skarned structure, and Dave for a combination of the two. Consequently, I elected to drill a fence of holes north from Summit parallel to the R.Bell structure. The fence extended from R.Bell to Cordick, a distance of over 1000'.

Hole	Site	Dip	Az	Depth
RB-1-97	E	-45	110	255
RB-2-97	E	-90	_	151
RB-3-97	1	-45	110	255
RB-4-97	1	-60	110	163
RB-5-97	1	-45	290	199
RB-6-97	ĸ	-45	110	110
RB-7-97	ĸ	-45	290	300
RB-8-97	ĸ	-60	290	190
RB-9-97	J	-45	290	250
RB-10-97	J	-60	290	351
RB-11-97	Ĵ	-90		151
RB-12-97	Ĵ	-65	110	310
RB-13-97	ĸ	-90		251
RB-14-97	Ĝ	-90	_	161
RB-15-97	Ğ	-45	290	90

Table 2. R.Bell Drilling

The amount of footage devoted to Summit was justified by the high grades in the Summit prospect and the limited expression of the Summit veins. Chip channel sampling by Tom Johnson in August returned a 24-foot sample assaying 0.883 opt Au. A small volume of rock at that grade would produce a minable orebody, and we felt an aggressive drilling program was justified. We flagged sites at 100-foot intervals north from Summit, labelling them "A" through "L" (Figure 2). Drilling near sections "A" - "C" was conducted in the 1996 KRR program, so our drilling was done on "E", "G",





"I", "J", and "K". Drilling on the north end was dense owing to proximity to the Cordick (analogue to R.Bell), and having encountered two epithermal zones which seemed to correlate with the "Sleeper", "Jerry's Middle", and "Jerry's Upper" epithermal prospects to the south. I was hopeful that the intersection of the Cordick trend and this epithermal trend would be mineralized, and drilled the area carefully to test that possibility. Results were negative, and I concluded that the epithermal trend we saw in the drilling was probably not correlatable to the Sleeper trend, and was itself discontinuous and unmineralized.

#### RB-1-97, RB-2-97

The general plan of the drilling was to test the limestone in a vertical hole and in a -45° hole toward the east (the R.Bell contact) from each drill site. Accordingly, at the first site, "E", RB-1-97 was drilled at -45°, az. 110°, to a depth of 245 feet. The rocks encountered defined a pattern which persisted through the strike length of the drill program. Massive white to gray marble gave way at 135 ft. to 60 ft. of fragmental and detrital limestone clasts in volcaniclastic matrix to massive volcaniclastic greenstone at 195 ft. The mixed zone of limestone clasts in volcaniclastic matrix is the "Limestone Agglomerate" of many previous reports. I consider the rock to be a depositional unit that could have formed in a volcanic environment near the base of a limestone cliff or scarp or highground. The matrix looks detrital rather than igneous, albeit volcanic, very immature. A little skarning was visible around 190-193 ft. RB-2-97 drilled 151 ft. at -90° through the carbonate, encountering no significant alteration or mineralization.

#### RB-3-97, RB-4-97, RB-5-97

RB-3-97 was drilled from the "I" station at -45°, az. 110°, to a depth of 255 ft. After 45 ft. of Fsp-Hb-phyric syenite, the limestone-limestone conglomerate-greenstone sequence was seen, with a minor bit of hematitic alteration at 148.5'. RB-4-97 was drilled at -60° on the same azimuth, because we were near the Cordick, and I wanted to test the dip on the contact and see if alteration picked up at all at depth. We TD'd at 155 ft., having established the stratigraphic attitude of the limestone-mixed zone contact. RB-5-97 was drilled at -45°, az. 290°, to a depth of 194. Epithermal, open-space quartz-calcite veining was well-developed from 93-100 ft., and sparked interest in the possibility that an epithermal continuation of the Sleeper trend might be converging on the R.Bell-Cordick trend. Rapid turn-around sampling of the interval returned negative results.

#### RB-6-97, RB-7-97, RB-8-97

This hole was drilled from "K", but because of nearby trees, had to be placed about 25 ft. east and 15 feet north of the actual "K" site. The hole collared in greenstone at -45°, az. 110. It hit a little mixed rock, but was obviously above the contact of interest, so was terminated at 110 ft. RB-7-97 stepped another 25 ft. east (for logistic reasons) and drilled at -45° on a 290° azimuth in order to cross the zone of interest from east to west. We hoped to intersect the epithermal zone seen in RB-5-97. We stopped the hole at 300 ft., having past the depth at which a vertical epithermal zone would have been encountered, and concluding that if the zone were inclined toward the west, we would be better off drilling it in a vertical or east-dipping hole. Because we were so close to Cordick workings, however, we drilled RB-8-97 at -60°, az. 290°, to have another pass at the contact (mixed) zone. The hole was terminated at 190 ft. in marble, having seen very little alteration.

#### RB-9-97, RB-10-97, RB-11-97, RB-12-97

These holes were drilled from "J" (See Figure 2, 3). RB-9-97 was drilled at -45°, az. 290°, to a depth of 250 ft. Its purpose was to intersect the epithermal zone. Two zones of interest were intersected, one a qz vein zone at about 120-123 ft., the other a sulfide-rich breccia zone from 163-174. Neither returned significant gold assays. RB-10-97 was drilled in the same direction at -60° to a depth of 351 ft. in an attempt to intersect the two zones of interest from RB-9. The effort was not successful, and we concluded that the epithermal zones were dipping west above RB-10. RB-11-97 was a vertical hole drilled 151 ft. through mostly limestone breccia/conglomerate of the mixed zone.

RB-12-97 was oriented at -65° on a az. of 110°, to a depth of 310 ft. The purpose of this hole was to drill under Cordick to test mineralization at depth. Nothing significant was encountered.

#### RB-13-97

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This hole was drilled vertically in an attempt to intersect the west-dipping epithermal zone and test its northward continuity from RB-9-97. RB-13-97 stepped out from "K" 100 feet west and drilled to a depth of 251 ft., well below our projected target. The zone was not intersected, and nothing significant was encountered.

#### RB-14-97, RB-15-97

These holes were drilled from station "G", to test the limestone adjacent to the contact with limestone conglomerate and greenstone. Both holes were negative with respect to prospective rock.

#### BLUEBELL DRILLING

The Bluebell property used two-stations (Figures1, 4, 5). The stations were separated by 200 feet and were sited 100 feet west of the Bluebell horizon. Two holes were drilled from the first station and one from the second for a total of 843 feet. As indicated in the drill sections, the skarn horizon was not well developed or mineralized. It is likely that flat faults controlling the syenite intrusions have displaced the ore horizon, but no offset indicators were recognized.

Table 3.	Bluebell	Drilling
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Hole	Dip	Az	Depth
BB-1-97	-40	100	403
BB-2-97	-50	100	230
BB-3-97	-50	100	210

The geology of the Bluebell consists of marble, chert-rich sharpstone, volcanic and intrusive greenstones, and syenite dikes. The skarn is most closely associated with the contact between marble and intrusive greenstone (microdiorite). The skarn is pyroxene-garnet skarn, with surprisingly little epidote. Skarn intersections were generally sulfide poor, with a 2-foot thick zone of massive sphalerite being a prominent exception.

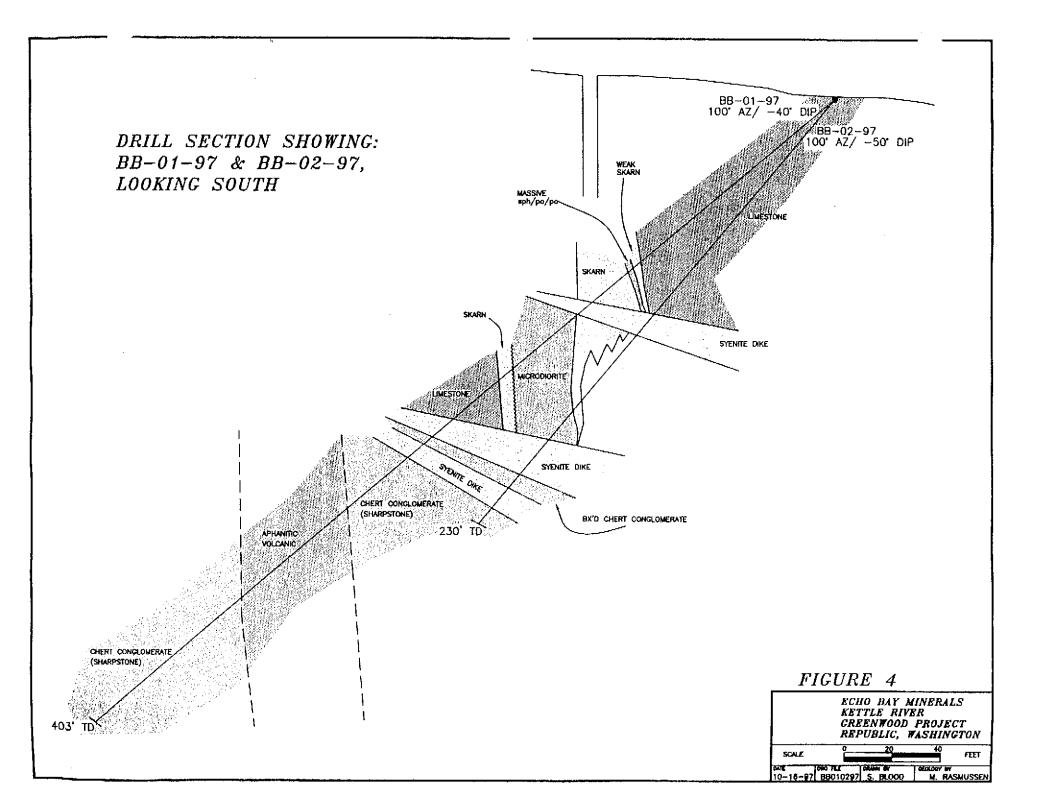
#### NORTH EMMA

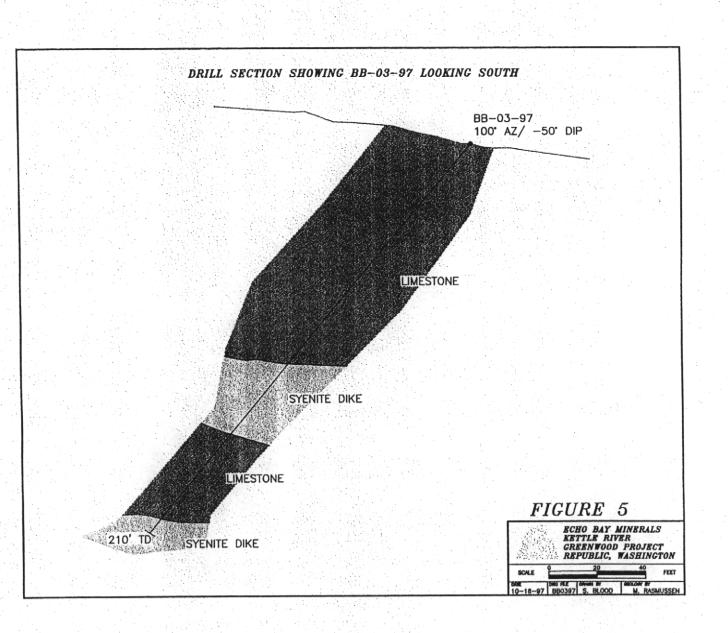
Three holes were drilled under a pit on the north end of the main Emma workings (Figures 1, 6,7, Table 4). Barry Kyba had taken a sulfide-rich rock from tis pit in 1996 which assayed 0.3 opt Au. I collected a sample from the rocks beside the pit which assayed 0.117 opt Au. The drilling tested the idea that gold in the Emma was zoned toward the north, owing possibly to an intersection with the Emma vein. That model was not supported by the drilling. Although we did get 5 feet of 0.11 in NE-97-3, the mineralization pattern indicated waning of mineralization.

#### Table 4. North Emma Drilling

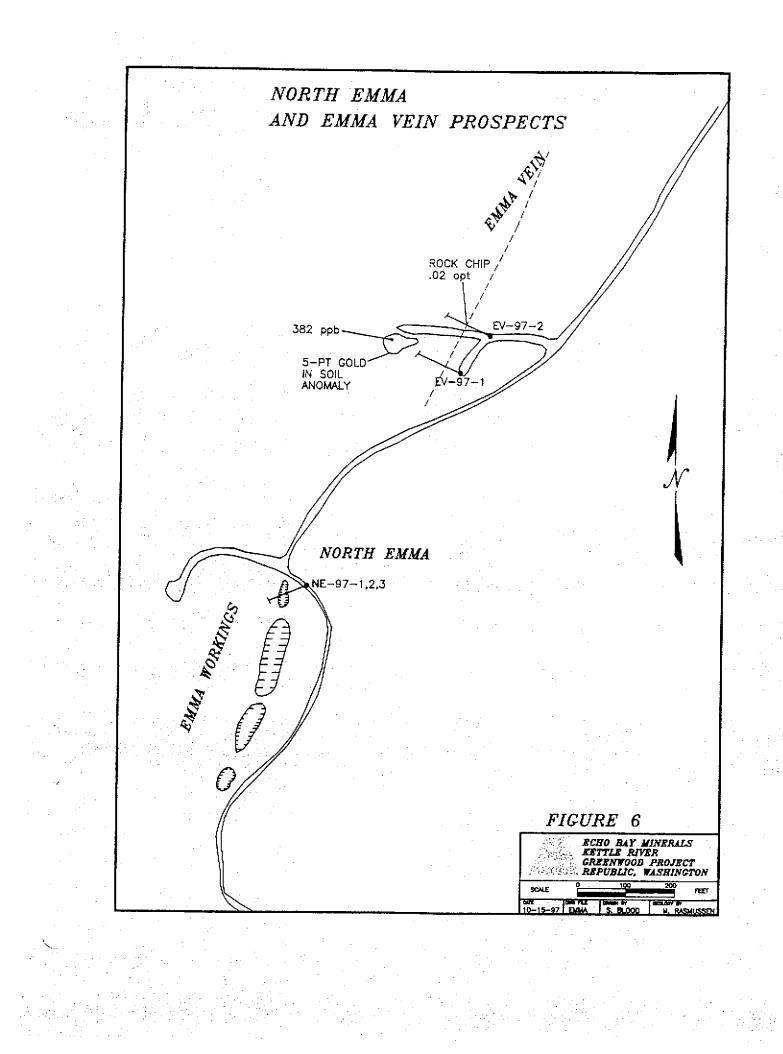
Hole	Dip	Az	Depth
NE-1-97	-45	260	83
NE-2-97	-55	260	179
NE-3-97	-70-	260	210

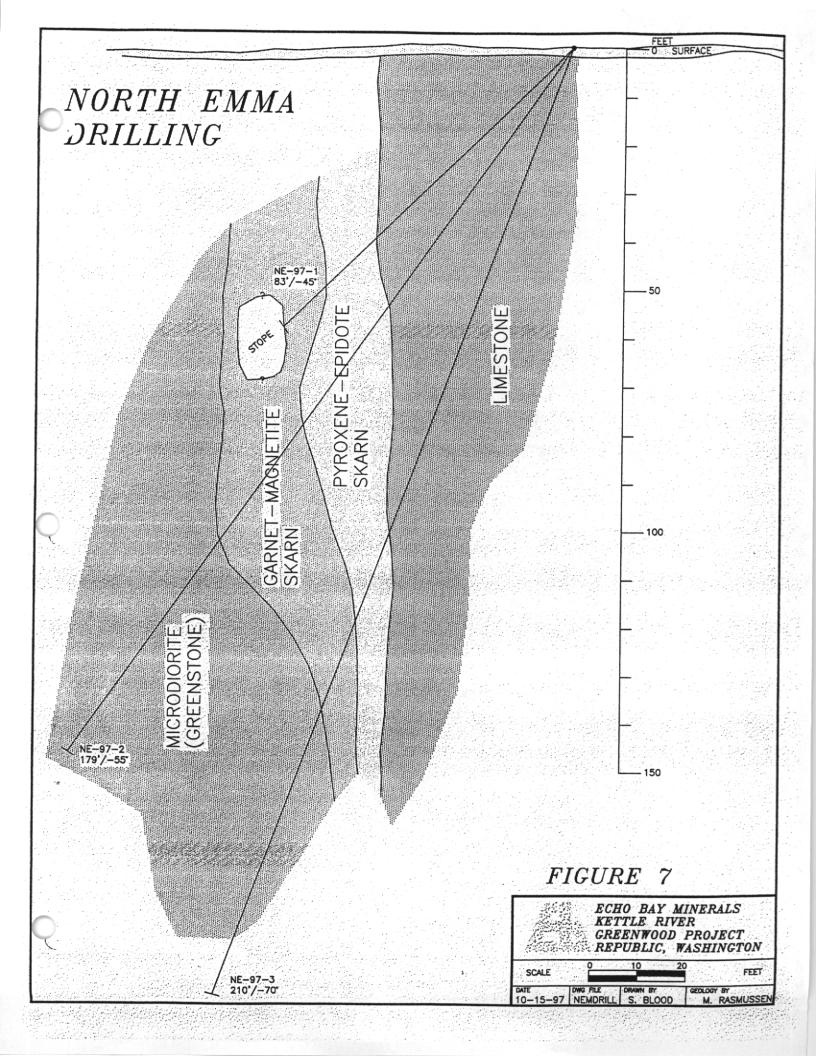
The geology of the North Emma drilling indicated four rock types (Figure 7): marble, pyroxene skarn, garnet-magnetite skarn, and microdiorite. For once we didn't have to drill through thick syenite dikes. Magnetite  $\pm$  sulfide occurs primarily in the garnet zone, and was well developed in the NE-97-2 hole. The significance of the garnet-->pyroxene zonation is not clear, but seems to indicate either (1) proximal to distal gradient away from the microdiorite, or (2) geochemical aluminosilicate gradients from the carbonate to the greenstone.

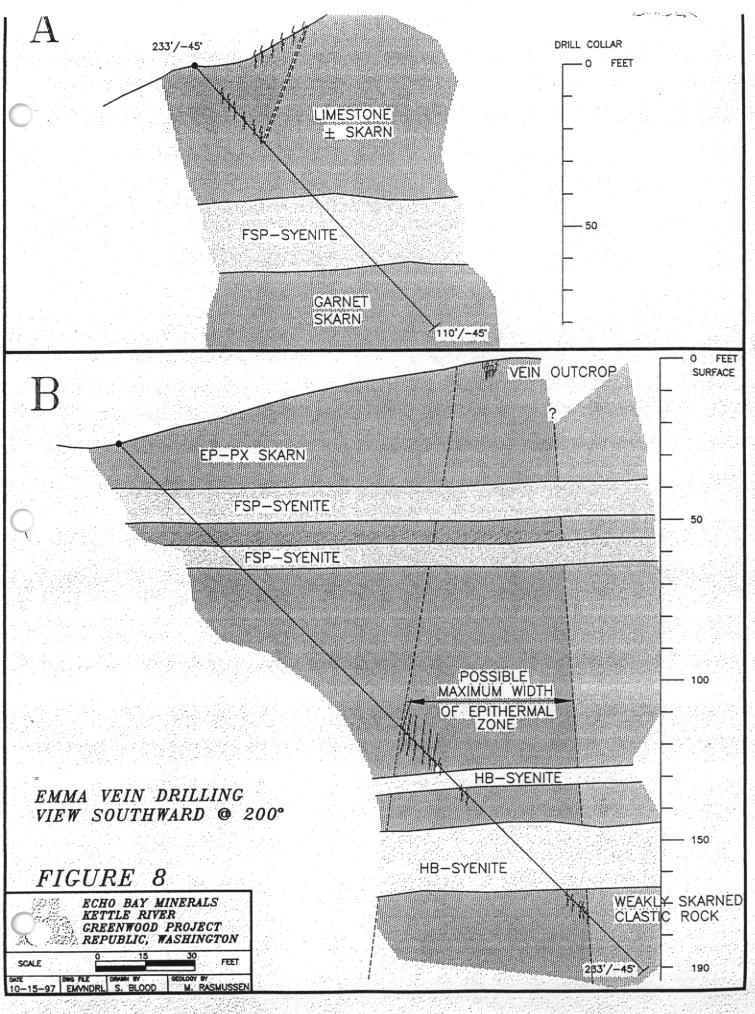




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#### EMMA VEIN

Two holes were drilled in the Emma Vein (Figure 6), a trend of siliceous brecciated outcrops over 1000 feet long, on a northerly bearing similar to the Emma horizon. Two gold-in-soil anomalies are associated with this trend, and a rock chip assaying 0.017 opt Au was collected from one of the outcrops this summer (Figure 8, Table 5).

#### Table 5. Emma Vein Drilling

Hole	Dip	Az	Depth	
EV-1-97	-45	290	110	
EV-2-97	-45	290	233	

The geology of the Emma Vein drilling consists of garnet-pyroxene limestone and syenite dikes. West of the limestone, clastic greenstones were intercepted at the bottom of hole EV-97-2. Two assays similar to the rock chip value reported above were obtained.

In summary, 23 holes were drilled to test the limestone hosted R.Bell gold zone, the skamrelated Bluebell and North Emma prospects, and the epithermal Emma Vein. None of the drill intercepts warranted follow-up beyond this initial program.

#### 5.0 CONCLUSIONS AND RECOMMENDATIONS

We conclude that the Summit area is more prospective for copper than for gold, and do not consider future gold exploration a viable enterprise in this locality.

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APPENDIX 1

DIAMOND DRILL LOGS

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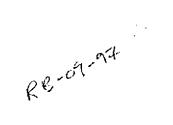
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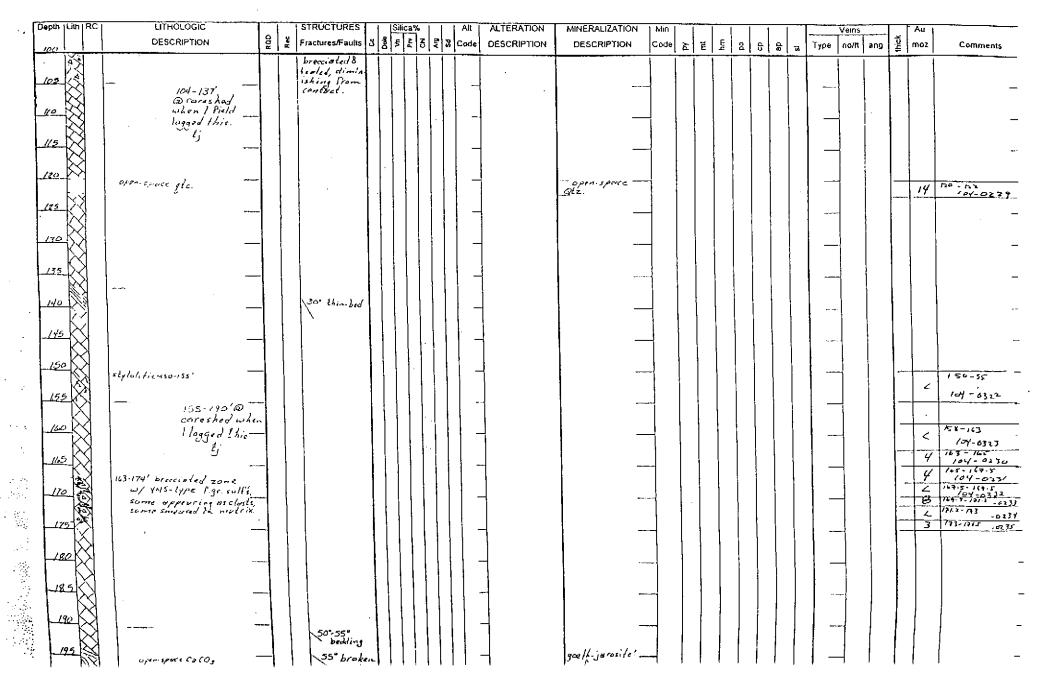
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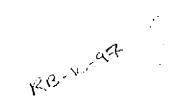
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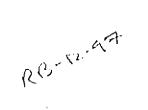
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	12		skarn zone -	- 4. N	hematite Bog & Caros				-		-									<u> </u>	104-251
	190	、關			filled off.					1										2	185-90
			189-195' ZONE of epidate -	╾┨─┼	Zone par. allel to				1	Pyrite in Fondom clots		ľ		"		-	-				- 252
	12	•₩	189-195' Zone o l'epidate - gærnet pyrite - hem - atite	_	C.A.				_	random clots ≤tcm.	<u>_</u>     <sup>-</sup>	-27				_				3	205
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R.B. 12- 477 STRUCTURES | Silica% | | Alt | ALTERATION | MINERALIZATION | Min | | |

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	295	200 - 214' Skarn Eone					1			· · · · · · · · · · · · · · · · · · ·	<u>İ</u>		1	1			<u> </u>	i		<u>i</u>		200-05
	205	Resembles mixed zone w/ large Le class, bulster		6.A. 85" W/					203-206 ep-gar	<1°10 < P) P)		te.	2.3%		br.		1				4	104-0255
		(skorn) motrix · support-		V. Franz II Brann					mag zone.					1		Ì		] }			4	205-10
	210	ed. Kiner hom on Prox.		King perpendik Martu dip				_			_	1					-	-		$ \downarrow$		*25%
		Skarn-203-206' is epidote- gernet-mognetite													1	1					~	210-15
,	2/5	214-250.3' Mixed Zone						-			-					1		-		-	ŀ	257
	720	Not as prodom alasts																			<	254
	-A===+ X X	Smeller, more motion		272-235'5-14				-	222.235'	281 255 3-5%	-/-	3-52					-	-				120-25
	.725	Some cherly clasts.		to C.A. w/ him					fractures	enhedral pyrile cubes 2.3 mm. or	[ <u>]</u>		3*4				1				۲	259
	<u>a</u>			en fran,		$\left\{ \right\}$		-		cubes, 2.3 mm, an grain & clast baung ories predamin .	ΓĽ.						-					225-30.
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بالألايحاشات متؤلته مترشف الدوالا بالمتقوة بدائه بالالانتشاب Page 2 ECHO BAY MINERALS Az Incl-90° TD /6/1 Date 17 Sep97 Logger Li Project K. Bell Dhid F.8-14-97 Coord: N E Elev `G Veins Au STRUCTURES Silica% At Fractures/Faults 3 8 5 2 3 5 Code MINERALIZATION Min LITHOLOGIC ALTERATION · • ·건 도 moz R R R 📊 Type no/it ang Code E E E Comments 8 8 8 DESCRIPTION DESCRIPTION DESCRIPTION 100 NS 110 115 Cotite veinlel, ~Zern wide, ~/ hem-chl. rind on one side, 8 apidate-term. (I-Emm. wide) in core. 120 ----1 125 130 135 \_\_\_ 160 145 150 155 2.5.3 160 161 T.D. ÷. ----

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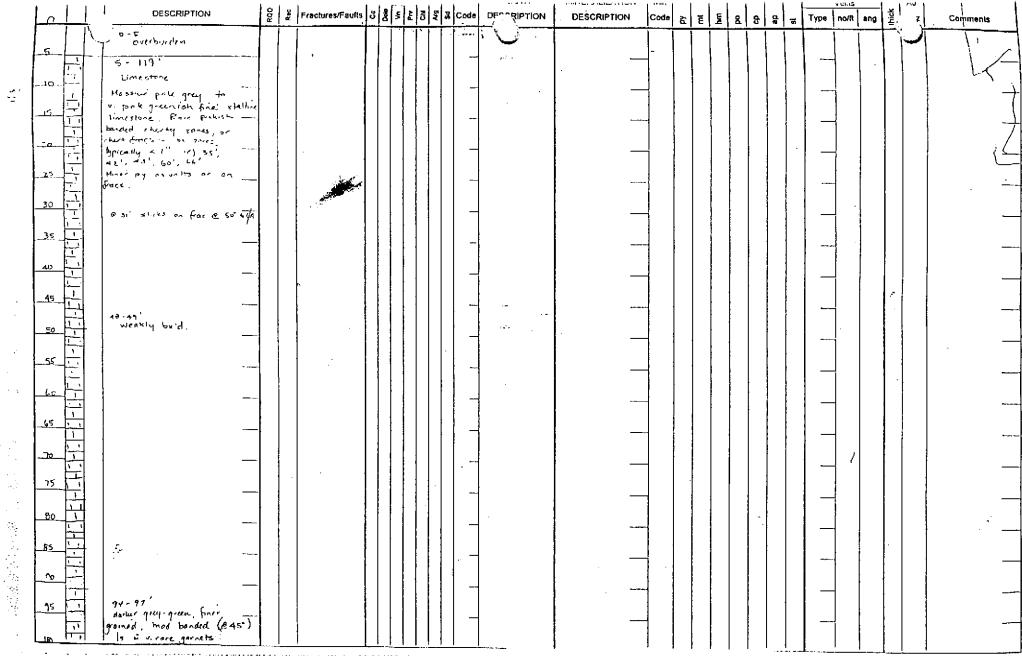
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	115-120' stalling marble, -																		ļ		· .	
120 1	W locally pink or the huge +						-	-								_						÷
125.	119-158.5' Symile Dyke 0.119' sharp connet.e						.	-			-					-	$\frac{1}{1}$					<b>—</b>
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145 1-1	Limestone																					
<u>  </u>	Pale gray, stylotite, med crystalline marble Mossine, remaining masked.																					
	165-178 Weals mosail									_				,			]					
130 1	by Kith to 15 to rare charly frogs + th py.									_	_			~								
	124 - 185 henced charty section - buff							4		184-185' —	_					_	-					
	banding & vlaw tore argles 0-5, v hard. Eanding offset by - numerous faces & 70-70 to the						.	-		77. py - units i palens.	-					_	-				i	
	07. py, Jalts & patches							-			-					-						
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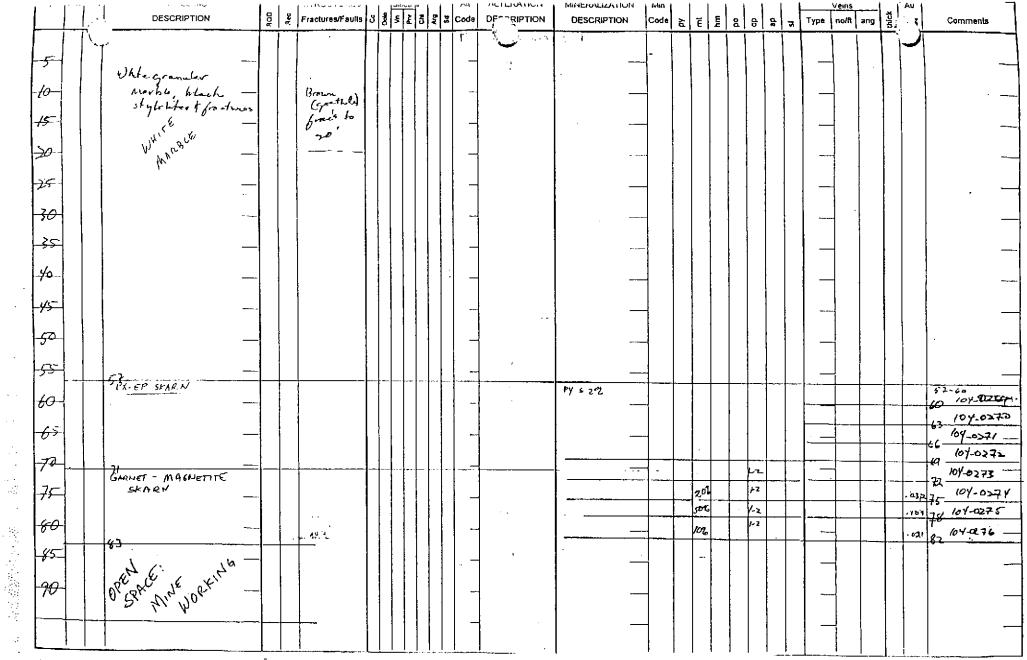
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10		6-65' LIHATE MARBLE										• <b>)</b> 7															
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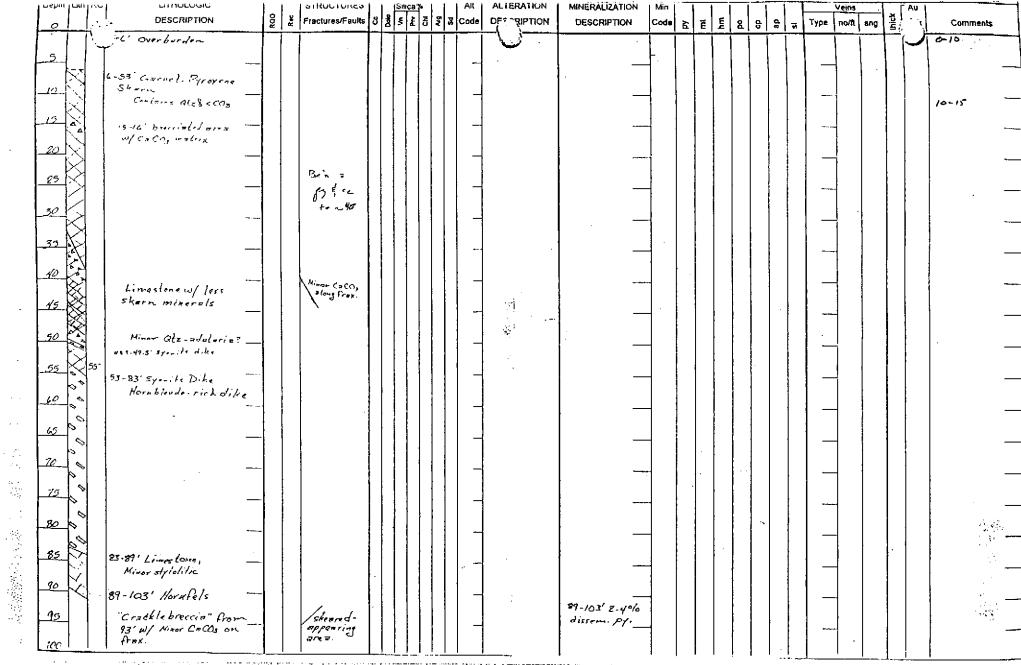
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25     S     Fsp- Physic Syenite       30-0     Pink lathi s lean       Pink-gree an tracking       35     35*-000       36     Fsp- (Pr.) skern       37     55*-000       40     Fsp- (Pr.) skern       40     Fsp- Physic Syenite       75     6       75     7       76     7       76     7       76     7       70     7       70     7       70     7       70     7       70     7       70     7       70     7       7     7 <td></td>	
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35     35 - 45       40     Ep. (Pn.) skarn strongly subiciful       40     Frp. (Pn.) skarn strongly subiciful       40     Frp. Physic Syenita       50     Frp. Physic Syenita       55     Francisco Syenita       55     Francisco Syenita       55     Francisco Syenita       55     Francisco Syenita       55     Francisco Syenita       55     Francisco Syenita       55     Francisco Syenita       55     Francisco Syenita       55     Francisco Syenita       55     Francisco Stars       60     Francisco Stars       61     Francisco Stars       70     Francisco Stars       71     Heartures Constant       72     Francisco Stars	
40-th Ep. (Ph.) skarn strongly schiefed 45-th Strongly schiefed 45-th Strongly schiefed 50-th Fsp- Phyric Syenita prate latter 55-s Jra baké lem 55'- 142' 60-th GT- PX skarN 55-th Strongu And, chadte Jo th Strong Common thrand the school of th	
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+05- L	$\left  \right\rangle$	55-142' GT-DX(ep) SKARN						ان متعدد								-73-a	-34C		∰ <b>`−</b>	
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APPENDIX 2

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ANALYTICAL RESULTS

CUSTOM ANALYTICAL SE P.O. BOX 722 * 101-4 Republic, WA 99166 (509) 775-3885	HWY 21	So.
September 5, 1997 8716	82	<u></u>
TEST FOR:	Au	Ag
	FIRE	FIRE
METHOD:	ASSAY	ASSAY
USED:	oz/ton	oz/ton
RESULTS IN:	02/001	0/3/ 0011
RB:9:163	.004	.01
RB:9:120.5	.014	.05

CHARGES

\*==\*\*\*\*\*\*\*\*

104:318 Bac - 5-47	140-45	.017 %	- 01
104:319	145-50	<.002	<.01
104:320	1=0-55	<.002	<.01
104:321	155-60	<.002	<_01
104:322 RB-9-97	150-55	<.002	.05
104:323	158-163	<.002	<_01

eptember 8, 1997 R71	692	
EST FOR:	Au	уà
ETHOD:	FIRE	FIRE
ISED:	ASSAY	ASSAY
TSULTS IN:	oz/ton	oz/ton
);		
104:229 RB-9-97 120-23	<.002	. 13
104:230 163-65	<.002	.01
104:231 /65-16	7.5 .004	.01
	(7.5 < . 002	. 03
104:233 169.5-17		.07
104:234 1712-17		.21
104:235 173 -174		. 08
JOHNSON: SILICA BLANK	<.002	
F#2: STANDARD	.136	_

September 24, 1997 R71801

	the second second second second second second second second second second second second second second second se	
TEST FOR:	Au	Ag
METHOD:	FIRE	FIRE
USED:	ASSAY	ASSAY
RESULTS IN:	oz/ton	oz/ton
	180-155 <.002	.17
104:252 )/8	5-40 (.002	.16
104:253 (4	0-45 .003	.03

	104:253	190-45	E00.	.03
	104:254	t	.004	. 08
	104:255		<.002	.11
	104:256		<_002	. 02
i	104:257		<.002	.05
	104:258		<.002	.14
	104:259	Y	<.002	_07
	104:260	220-30'	<.002	. 27
	104:260 RESPLIT		<.002	.27
	LGK: STANDARD		.146	**
	104:SILICA BLANK		<.002	**

ECHO BAY MINERALS (1362) 2251 W KETTLE RIVER RD. CURLEW, WA 99118 ATTN:MIKE RASMUSSEN ATTN:DAN HUSSEY

epithernal ven Sugier 60 Tames P. Gubler, Manager,

R.BELL DRILLING ASSAYS

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07/26/1997 11:15 5097753601

CUSTOM AMALYTICAL

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CUSTOM ANALYTICAL SERVICES P.O. Box 722 \* 101-4 Hwy 21 So. Republic, WA 99166 (509) 775-3885 ECHO BAY MINERALS CO. (1354) 921 FISH HATCHERY ROAD REPUBLIC , WA 99166 ATTN:TOM JOHNSON ATTN:MIKE RASMUSSEN

July 26, 1997	R71307				
TEST FOR:	Au	Ag	Cu	Zn	Bi
METHOD :	FIRE	FIRE	GEO	GEO	GEO
USED:	ASSAY	ASSAY	CHEM	CHEM	CHEM
RESULTS IN:	oz/ton	oz/ton	ppm	nqq	ppm
RB97:1R	1.345	1.71	72	263	403
RB97:2R	.883	. 44	30	75	114
RB97:3R	.026	.13	36	129	50
RB97:4R	1.433	1.89	63	74	365
RB97:5R	.813	1.46	31	43	80
RB97-6R	029		19	508	72

403 grab <u>114</u> 24' chip channel <u>50</u> 27' chip <u>365</u> 4' chip <u>80</u> 1' chip <u>72</u> grab RECON, MAP

15 July 97 R. Bell Ares £;\_\_ R.Bell Nof Huy 3 15 July 97. Phoenix toils 3.45 W #1-Chip of Alz. h. in pit -= 2-24' stip-chal. minzid Stea. (16' true width) 2 Alz areas =3-27' chip chal. Ls. Lingestone =4-3' chip. chal. Olz.on. -[[. =5 1' chip. chal. Atzon\_ 46 is Olz& sulfidas £24. an dump of pit in limestore. 28 F.gr. Qtz diorite 746 X In both these . . . . .  $\langle \eta \rangle$ sol mod. instances of ... prople late silicificataltn. Tsv ion, the atz is. (Marrow) following bedding ~ not Sute how on the Hw side ₹54° this lies of the faults. in here: R.Bell 0 ъH

R Bell Geochem



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# Chemex Labs, Inc.

Analytical Chemists \* Geochemists \* Registered Assayers 994 Glendale Ave., Unit 3, Sparks Nevada, U.S.A. 89431 PHONE: 702-356-5395 FAX: 702-355-0179

a: ECHO BAY MINERALS CO.

921 FISH HATCHERY ROAD REPUBLIC, WASHINGTON 99166

Project : GREENWOOD Comments: ATTN: MIKE RASMUSSEN

per 1 Pa Tot. - s 1 Certificate Date: 07-OCT-97 Invoice No. : 19745300 P.O. Number : ST2809 Account :NCD

						CERTIFICA	TE OF ANALYSIS	A974530	0
SAMPLE	PREP CODE	Au ppb RUSH	Au FA oz/T	As ppm	Sb ppm	Hg dqq	Rea	21 Samp	les to
RB97-10R RB97-11R SKARN RB97-12R RB97-13R RB97-13R RB97-14R VEIN	255 295 255 295 255 295 255 295 255 295 255 295	< 5. 35 < 5 < 5 >10000	0.749	16 14 1 2 8	7.0 2.0 0.4 0.2 0.6	670 1435 < 10 10 20		r samp	
RB97-15R YEIN RB97-16R YEIN RB97-17R RB97-18R	255 295 255 295 255 295 255 295 255 295	2540 90 340 10		2 4 2 2	0.2 0.2 0.4 0.6	< 10 < 10 10 < 10	sign sko.	a to ven	in RBell vocks
<u>`</u>									
						<u> </u>		Joant	Bickler

**CERTIFICATION:** 

00/20/1997 10:52 5007750001

RB-97:10

RB-97:11 RB-97:12

RB-97:13

EV-97:1

EV-97:2

CD-97:1

NE-97:1

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CUSTOM ANALYTICAL SERVICES P.O. Box 722 \* 101-4 Hwy 21 So. Republic, WA 99166 (509) 775-3885

August 26, 1997	R71615	
TEST FOR:	Au	Λg
METHOD:	FIRE	FIRE
USED:	ASSAY	ASSAY
RESULTS IN:	oz/ton	oz/ton
·		

CUSTOM ANALVITICAL

PACE 01

ECHO BAY MINERALS (1362) 2251 W KETTLE RIVER RD. CURLEW, WA 99118 ATTN:MIKE RASMUSSEN ATTN:DAN HUSSEY

RECON

(Blueball - Should be "BB", not "RB") epidet -garnit-rid .012 .25 Zoxidized / egithermal .09 009 .004 < 01 <.002 <.01 Emma Vein Emma Vein Cordick skarn (bladd mag/epidra/ 3-5% py-Cpy North Eman pit sulfinch skan .017 <.01 <.002 <.01 .020 .08 45 .110 <.002 -

Gubler, Manager

CHARGES

LGK: STANDARD

RAS: SILICA BLANK

15			**=****
2	TOTAL	CHARGES	\$0,00

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#### CUSTOM ANALYTICAL SERVICES P.O. Box 722 \* 101-4 Hwy 21 So. Republic, WA 99166 (())) 775-3885

ECHO BAY MINERALS CO. (1354) 921 FISH HATCHERY ROAD REPUBLIC , WA 99166 ATTN:TOM JOHNSON ATTN:DAN HUSSEY

October 16, 1997	R71812			
TEST FOR:	Au	Ag	Cu	Zn
METHOD:	FIRE	FIRE	GEO	GEO
USED:	ASSAY	ASSAY	CHEM	CHEM
RESULTS IN:	oz/ton	oz/ton	ppm	ppm
			,	·
104:261 BR-01-97 1	002 - 110.5 < . 002	.02	203	748_
	-112' <.002	.01	2,401	36,081
	-117 <.002	<.01	93	1,036
	- 122 .008	<.01	650	1,073
104:265 122	- 127' 4.002	.11	1,386	671
	-131.5' .004	.05	3,257	307
	- 140.5' .003	.07	516	126
	-145' <.002	.12	274	140
JOHNSON: SILICA BLA				
HGK: STANDARD	. 196	-	-	

BLUEBELL DRUL ASSAYS

Chris Kitchell, Manager

CHARGES

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TOTAL CHARGES \$0.00

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CUSTOM ANALYTICAL SERVICES P.O. Box 722 \* 101-4 Hwy 21 So. Ublic, WA 99166 (-9) 775-3885

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ECHO BAY MINERALS (1362) 2251 W KETTLE RIVER RD. CURLEW, WA 99118 ATTN:MIKE RASMUSSEN ATTN: DAN HUSSEY

Detab	October 16, 1997 R71834					ATTN:DAN HUSSEY		
TEST 1		<u></u> <u></u> <u></u> <u></u>	Au	Аg	Cu			
METHO			FIRE	FIRE	GEO	X + Frama		
USED:			ASSAY	ASSAY	CHEM	North Chines		
	TS IN:		oz/ton	oz/ton	ppm	North Emma Drill Assays		
		·····				Gren 11334		
104:2:	69 NE 97.	1 60-63	<.002	.08	62	J		
104:2		63-66	<.002	.06		· •		
104:2	71	66-69	<.002	.13	34			
104:2		0 1000	<.002	. 27	126	+ out of sequence		
104:2		72-15	<.002	.06	1,396	4 0		
104:2	and the second data was a second data was a second data was a second data was a second data was a second data w	15-55	<.002	. 39	4,367			
<u>104:2</u>	75 <u>75</u> –	- 78-99	<.002	. 19	3,823			
104.2	76	78-82	.011	. 45	<u>6,302</u>			
Octob	er 7, 1997	R718	394					
TEST			Au	Ag				
METHO	D:		FIRE	FIRE	•			
USED:			ASSAY	ASSAY				
RESUL	TS IN:		oz/ton	oz/ton	·			
					(ecolory			
104:2	and the second second second second second second second second second second second second second second second		.006	.23	65-7.	NE-02-94		
<u>104:2</u>	the second second second second second second second second second second second second second second second se		.002	.03	70-73			
<u>2</u>			<.002	. 09	75-2	5		
<u>.</u>			<.002	.14	20-5			
<u>104:21</u>	and the second se	··· ··	<.002	.14	25-1	•		
<u>104:28</u>			<.002	.17	90-9 15-1			
<u>104:28</u> 104:28			<.002	01	100-			
104:28	the second second second second second second second second second second second second second second second s		<.002	<u> &lt;.01</u>	1017-			
104:28			<.002	<u>&lt;.01</u>	110.			
104:28	States in the second second second second second second second second second second second second second second		<.002	<u> </u>	115-			
104:28			<.002 <.002	<u>(.01</u>		.12.7		
104:28	A 10 YO M DOG TO THE OWNER.		<.002	.02	• -	130 (NE-03-77)		
104:29			<.002					
104:29				.07	۶- י			
104:29			<.002	.02	6-			
Record Ministers of the		<u> </u>	<.002	.13		20		
<u>104:29</u> 104:29			<.002	.16		-110		
			.006		110-			
104:29			.016	03		120		
<u>104:29</u>			.004	.42		- 125		
104:29	and the state of the state of the state of the state of the state of the state of the state of the state of the		<.002	.13	125	- 130		
104:29	The second second second second second second second second second second second second second second second se		.022	.07	130	- 135 - 190		
<u>104:29</u>			.024			- 145		
$\frac{104:30}{104:30}$			_ 028	.07	740 - 1.1	- 120		
104:30			(.002					
<u>104:30</u>			<.002	.12	_	2-15 5		
104:30			<.002	< 01	150	6-760		
	6PULP DUP,	·····	<.002	.43				
	3RESPLIT		<.002	.01				
	TANDARD		.139					
JOHNSO	N: SILICA E	BLANK	<.002			_		
14.						$\sim$ $\sim$		

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TOTAL CHARGES.

CHARGES

\*\*\*\*\*\*\*\*\*\* \$0.00

Chris Kitchell, Manager

0007770001 10/22/1007 10:21

CUSTOM ANALYTICAL SERVICES P.O. Box 722 \* 101-4 Hwy 21 So. Republic, WA 99166 (509) 775-3885

October	22, 1997	R720	05	
TEST FOR	:		λυ	Ag
METHOD :			FIRE	FIRE
USED:	•		ASSAY	ASSAY
RESULTS	IN:		oz/ton	oz/ton
•	Emmal	EIN		
104:304		0-10	.009	.06
104:305		10-15	<.002	.13
104:306		15-12	<.002	.05
104:307		20-25	<.002	.03
104:308		25-30	<.002	.21
104:309	······································	30-35	<.002	. 07
104:310		35-40	<.002	<.01
104:311		40-45	<.002	.05
104:312		45-50	<.002	.02
104:313		90-95	<.002	<.01
104:314		95-100	<.002	<_01
104:315		106-05	<.002	.04
104-316		105-10	<.002	.10
10. 7		110-15	<.002	01
				<b>.</b> .
104:324	EV-02-97	70-75	<.002	.03

104:324 EV-02-97	70-75	<.002	.03
104:325	75-80	<.002	<-01
104:326	80-85	<.002	01
104:327	85-90	<.002	<.01
104:328	I	<.002	.03
104:329		<.002	<.01
104:330		<.002	.09
104:331		<.002	.04
104:332		<.002	.03
104:333	25	<.002	<.01
<u>104:334</u> .		.003	.04
104:335	5	<.002	.16
104:336		.009	.14
104:337		.006	.17
104:338	¥	.006	. 02
<u>104:339</u>	v	.012	.14
104:340	160-65	.012	.14
104:323DUP.		<.002	.01
104:339-340 COMP.	RA	.010	.10
RASMUSSEN: BLANK		<.002	
LGK: STANDARD		.148	

CHARGES

TOTAL CHARGES

\_\_\_\_\_ \$0.00

CULIUM ANALY LICAL

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ECHO BAY MINERALS (1362) 2251 W KETTLE RIVER RD. CURLEW, WA 99118 ATTN: MIKE RASMUSSEN ATTN: DAN HUSSEY Firal Kepart

Emma Vein Drill Assays

Chris Kitchell, Manager

Excellence Begins Here .... PAGE 1 OF 1

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			1
WC-97:1	.250	<:01	
WC-97:2	.005	<.01	
WC-97:3	.272	<.01	-
WC-97:5	< 002	.13	
WC-97:6	<.002	.31	
WC-97:7	<.002	.15	-
WC-97:8	. 068	.14	_
PL-97:1	.088	.27	
PL-97:2	.017	<.01	
BJ-97-1	. 106	- 48	
HJ-97-1 RESPLIT	_ 105	. 47	-
HGK: STANDARD	.203	**	
SILICA BLANK	<.002	**	-

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Winnipeg-Crown Recon Powerhine Hartford jungtor

APPENDIX 3

**7**.

COST STATEMENT

## STATEMENT OF COSTS

(R.Bell, Bluebell, North Emma, Emma Vein)

**7.** .

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LABOF	R M. Rasmussen T. Johnson	15 days @ \$300/day 18 days @ \$150/day	\$4500.00 <u>2700.00</u> \$7200.00		
DRILLI	NG Bergeron Drilling 4842 feet @ \$14.20/ft Mobilization, Cat Work		\$68,756.40 <u>18,276.01</u> \$87,032.41		
ANALY	TICAL COSTS Custom Analytical Sen 113 Au, Ag as Chemex Geochem, Ai	says @\$13/sample	\$1469 (US) 403 (US)	1939 (Cdn) 560 (Cdn)	
VEHIC	LES, SUPPLIES EB Fleet trucks, 33 day	ys @ \$25/day(US)	\$825 (US)	1089 (Cdn)	
TOTAL \$97,820.41 (Cdn)					

APPENDIX 4

3.

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STATEMENT OF QUALIFICATIONS

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### STATEMENT OF QUALIFICATIONS

I, Michael G. Rasmussen, certify that:

- 1. I am an exploration geologist residing at 868-7 Rupert Spur Rd., Republic, WA, USA
- 2. I obtained a B.A. in Biology at Andrews University, Berrien Springs, MI, in 1969.
- 3. I earned an M.S. degree in Geology at Loma Linda University, Riverside, CA, in 1983.
- 4. I graduated with a Ph.D. degree from the University of Washington in 1993 in Geological Sciences.
- 5. I have practised my current profession since 1990.
- 6. I am employed by Echo Bay Minerals Co. as a Senior Exploration Geologist.

Michael G. Rasmussen, Ph.D.

2-23-97-