Cusac Gold Mines Ltd.

Table Mountain Gold Property

Diamond Drilling Report

Nu-Tara and Cordoba Claims

Liard Mining Division

M104P012 NE

461000E, 6560500N

East Bain Vein

2002 Field Season

Owner/Operator : Cusac Gold Mines Ltd.
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Introduction

This report documents a diamond drilling program conducted between August 1st and November 2nd of 2002 by Cusac Gold Mines Ltd. on the Nu-Tara and Cordoba claims on the Table Mountain Gold Property.

- The objectives of this work were to expand and further define an ore panel on the East Bain vein, intersected and partially defined by diamond drilling in 1990-91.
- Eleven NQ surface diamond drill holes were completed. A total of 2395.1m of drilling was undertaken.
- Current drill indicated reserves on the East Bain stand at 24,434 Tons of 0.97oz/t for a total of 23,636 ounces Au.

General Property Information

Property Location and Access

The Table Mountain Gold Property is located in northern British Columbia, 150 kilometers south of Watson Lake, YT (See Figure 1). Highway 37 transects the property and provides all-weather access to Watson Lake to the north and Dease Lake to the south.

At present, the property consists of a generally contiguous block of 151 full and fractional mineral claims and Crown Grants totaling approximately 582 units. These claims cover an area of approximately 144 square kilometers (See Figure 2). The claims all lie within the Liard Mining Division. This figure highlights the area of work covered in this report, the Nu-Tara and Cordoba claims.

Property Topography and Vegetation

The claims forming the Table Mountain Gold Property cover the broad McDame Creek Valley and the Table Mountain to the south. The terrain is typical of northern British Columbia. Although the area is mountainous with relief exceeding 1000m, the local terrain is generally moderate. Overburden varies from thin till on the steeper slopes to deeper deposits in the McDame Creek Valley. Shallow lakes, swampy areas, and mixed poplar/spruce growths cover the valley floors. Pine forests cover the slopes, gradually thinning at higher elevations into alpine meadows.

Figure 1 : Property Location Map

The red highlighted square indicates the property location and approximates the area illustrated in Figure 2.

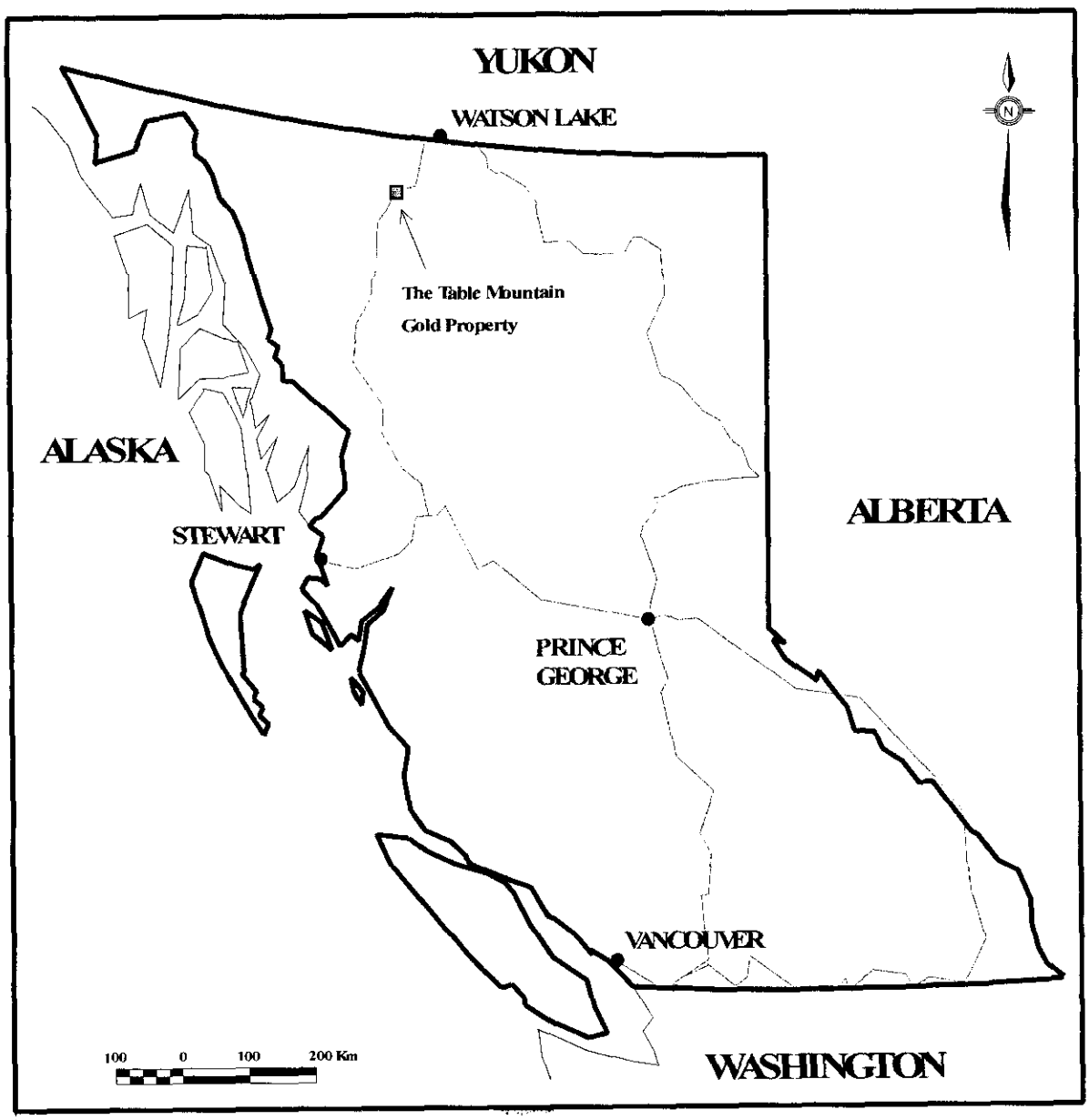
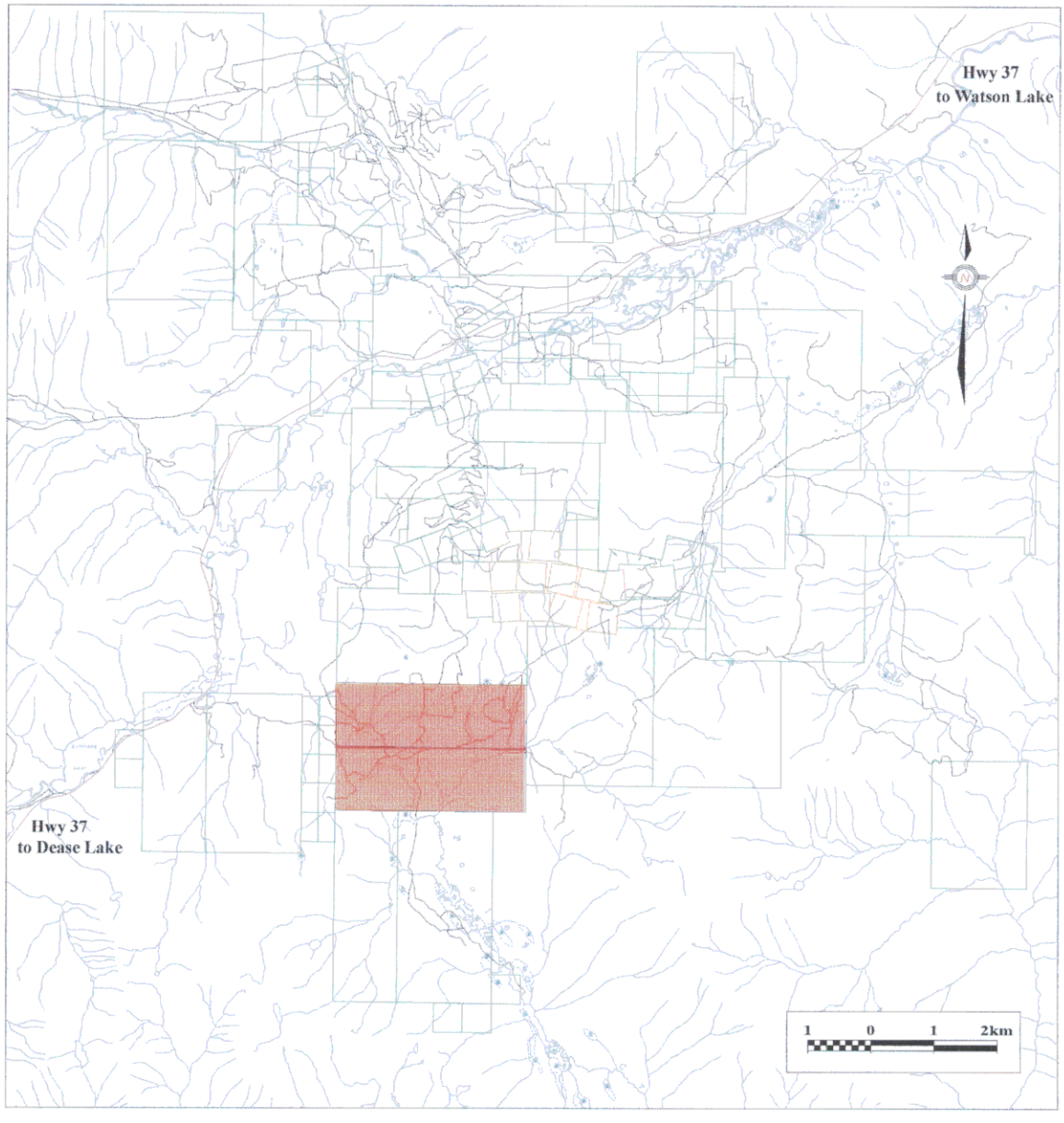


Figure 2 : The Table Mountain Gold Property

The boundaries of the claims forming the Table Mountain Gold Property are illustrated below. The Nu-Tara and Cordoba claims are indicated by the red shaded polygon.



Property History

Placer gold was first discovered in the McDame area in 1874. The town of Centerville was established during the ensuing rush, and a reported 65,000 ounces of gold were produced over the next twenty years from placer workings on McDame, Snow, Troutline, and Quartzrock Creeks. In 1877, a nugget weighing over 40 ounces was found. Limited production continues on a sporadic basis even to the present time. The total placer gold production from the area to date has been estimated at 108,000 ounces.

The first mineral claims were staked in 1934. A small exploration rush developed over the next few years as most of the near-surface, gold-bearing veins were discovered.

The Vollaug vein was discovered in 1935 by John Vollaug and his partner Hans Ericksen. Vollaug and Ericksen also staked the Agnes and Jennie claims covering the original exposure of the Jennie vein in what is now known as the Main Mine area. Cominco completed a prospecting, trenching, and drilling program on the Vollaug vein structure in 1937.

Around this time, an unknown group brought a small mill to the Jennie vein location and drove a short crosscut to the vein. No significant values were encountered and work terminated. These early workers stopped only a few rounds short of a high-grade shoot on the Jennie vein.

Between 1942 and 1946, a prospector named Pete Hamlin exposed auriferous quartz veins in trenches on what is now the Pete claim. Pete Hamlin introduced the Brett brothers to the Table Mountain and Pooley Pass areas in the late 50s. The Bretts staked several claim blocks in the area during this period.

In the early 1950s, Silver Standard Mines Limited explored the Vollaug vein.

In 1973, Table Mountain Mines drove a decline and an adit on an ore shoot on the west end of the Vollaug vein based on results from the 1937 Cominco drilling and the Silver Standard work from the 1950s. They eventually followed up this work in 1977 with an adit extension and two raises which proved up an encouraging ore shoot within the Vollaug structure. They did not mine this ore shoot.

In 1974, David and Kristian Ross of the Agnes and Jennie Mining Company Limited, trenched and sampled the original highgrade outcrop of the Jennie vein exposed on Erickson Creek. Subsequent drilling during 1975-76 defined a high-grade ore shoot within the structure. On January 1, 1977, the Rosses collared a portal at the 1350-meter elevation (35 level) to test the vein by drifting along strike. By March 1978, Nu-Energy Development Corp. had become a 50% partner in the project. Underground development had defined a high-grade ore shoot with a reserve of 8800 tons grading 1.55 oz/T Au. The Jennie vein eventually produced more than 62,000 oz Au from 113,000 tons of ore.

As noted, Cusac's interests in the area originated with the prospecting efforts of brothers Guilford and Fred Brett in the mid 1950s. These and other efforts, initially seasonal, eventually became full-time with the formation of Glen Copper Mines Ltd. in 1965. Glen Copper evolved, through Cusac Industries, to become Cusac Gold Mines Ltd. in 1995. Guilford Brett staked Cusac's key claims in the area in 1977.

In 1979, Cusac Industries Ltd. conducted a program of mapping, geochemistry, geophysics, and drilling on the Pete claim. A road was built into the area and three holes were drilled in 1980 with no significant intersections.

In 1980, Plaza Mining Corporation acquired the claims along the strike extension of the Vollaug vein to the east of the Table Mountain Mine property. They erected a 150-ton per day mill and commenced production from two small open pits.

Esso, through a 5-year option agreement, explored portions of the area in the early 1980s.

Exploratory work in the Main Mine area during 1981-82 defined a second significant gold-bearing structure, the Maura vein. Both the Jennie and Maura veins were developed down dip by a second adit at the 1280-meter elevation (the 28 level). A third adit was driven at an elevation of 1210 meters (the 21 level) to develop the Maura structure at greater depth. The Devine, Bear, Goldie, and Dease veins were discovered during this development. In 1982, surface drilling resulted in the discovery of a third significant gold-bearing structure, the Alison vein, located in the footwall of the Maura and Jennie zones.

In December of 1982, the Agnes and Jennie Mining Co. and Nu-Energy were amalgamated to form the Erickson Creek Gold Mining Co. (Erickson).

In 1982, Cusac Industries discovered the high-grade Dino vein and explored the Hot vein. Development of a crosscut, 300 feet of drift on the Hot vein and a raise to surface were completed. Low grades discouraged further work.

In September 1983, Plaza Mining Corporation went into receivership. Erickson acquired the Plaza assets, which included the mineral rights to the remaining known strike length along the Vollaug vein.

In late 1983, Erickson started a new adit at the 1420-meter elevation, approximately 3 km east of the Main Mine workings to develop some of the reserves on the Vollaug structure. Known as the Troutline, this adit had reached the vein by year-end. In 1983, Erickson also initiated work on a new adit below the Main Mine workings known as the 14 level.

In 1984, the original mill capacity was expanded to 300 tons per day. This mill was subsequently destroyed in a fire in January 1986. A new mill was built and the mine was brought back into production in October 1986.

In 1984, Cusac optioned its claims to Erickson. Over the years, further mineral rights were obtained on adjacent ground by staking, purchase, and under option agreements.

In 1985, Erickson discovered the Eileen vein, just south of the Dino vein, on the Cordoba claim. Drilling resulted in the definition of an economic ore body, which was developed via the Cusac Decline.

In 1985, Total Compagnie Francaise des Petroles, a French government-affiliated energy company, acquired operating control of Erickson Gold.

Ore production from the Eileen commenced during the summer of 1986. Underground mapping and drilling resulted in the discovery of the Michelle vein.

Prospecting conducted in 1987 uncovered the Katherine vein on the NuTara claim. The Katherine vein was the target of a subsequent percussion and diamond-drilling program.

In late 1987, an underground diamond drill program, testing east of the Eileen workings, discovered the vein system known as the Michelle High Grade zone (MHG). Attempts to further define the MHG from surface were ineffective. Definition drilling from underground was limited to available drill station locations as further development was halted by heavy water flows. A preliminary estimate of the potential of this zone indicated 24,337 tons at a grade of 1.019 oz/T Au. These results encouraged Total Energold to embark on an ambitious exploration and development program. A 2.5 km adit (the 10 Level) was collared in the fall of 1988 to investigate the MHG. At this point, reserves were depleted and production from the Cusac Portal and the Main Mine had ceased. Some production continued from the Vollaug through the end of the year. In late 1989, after completing 1.7 km of the 10 Level adit, work was terminated due to unexpectedly high costs and heavy ground water flows.

In 1989, Erickson conducted an integrated program of trenching, mapping, geophysics, and diamond drilling in the Cusac area. The Bain vein was discovered and a small mineral inventory was defined via further trenching and drilling.

Surface exploration in 1990 resulted in discovery of the Christine vein and a mineralized zone on the Theresa vein in the Hunter area.

Additional geophysics, geochemistry and diamond drilling conducted in 1990 and 1991 resulted in the definition of two significant reserve blocks on the Bain vein. The West Bain contained drill-indicated probable reserves of 34,741 tons at 0.687 oz/T Au. The East Bain contained drill-indicated probable reserves of 22,120 tons at 0.565 oz/T Au.

In April 1991, Total Energold elected to divest themselves of their North American mineral assets to focus on their oil and gas interests. All of the assets pertaining to the Erickson Gold operation near Cassiar were assigned to Energold Minerals Inc. and were subsequently purchased outright by Cusac Industries Ltd., free and clear of any royalties to Energold.

In 1993 Cusac reopened the mine and 300 ton per day milling operation at Table Mountain with the main production target being the West Bain structure. Definition drilling conducted on the West Bain zone confirmed reserve estimates.

A limited surface exploration program in 1993 resulted in the discovery of the Bonanza zone west of the West Bain.

In the fall of 1993, Cusac initiated development of the West Bain zone. During this period the old Cusac Portal workings were reopened and examined. Remarkably, no water was encountered in the workings. The development of the 10 level had lowered the water table and drained the water that had prevented the former owners from developing the MHG.

Milling of ore from the West Bain commenced in April of 1994. Underground mining was completed in July, and crown pillar extraction, in August, of 1995.

In January of 1995, Cusac entered into a joint venture agreement with Cyprus Canada Inc. (Cyprus), known as the Taurus Project. This project, involving a 40 square km group of claims in the northern portion of the property, regarded a mineralised zone straddling the boundaries of claims held by International Taurus Resources Inc. (Taurus) and Cusac.

In August of 1996, after spending approximately $3 million, Cyprus elected to withdraw from the Taurus project. Subsequent to Cyprus' withdrawal, Cusac entered into an option

agreement with Taurus regarding the same group of claims.

As a result of exploration completed by Cyprus and Taurus on the Taurus/Cusac project, Taurus geologists have estimated drill-indicated and geologically drill-inferred resources of approximately 1 million ounces of gold. The bulk of mineralization on Cusac's portion of the project is in the geologically drill inferred category. This low-grade, near surface, potentially bulk mineable resource, is associated with shear zones and disseminated sulphide mineralization.

During the development of the Cusac decline to the MHG, the Big vein was defined and mined. Definition drilling of the MHG commenced in May 1995.

Mining of the MHG commenced in June 1995 from the top of, what proved to be, a complex faulted series of high-grade ore blocks. Sporadic production from this zone continued through 1997.

1995 surface diamond drilling of the Katherine vein to the west of the Bain resulted in the definition of a small open-pit amenable reserve. This block was mined. The Bain Gap, between the East and West Bain blocks, was tested with inconclusive results.

In the summer of 1995, I.P. surveying, designed to test for zones similar to that being investigated at Taurus was undertaken. Follow up drilling to this I.P. work did not yield any significant disseminated mineralization. The final hole on the Van claim, 95VAN-5, designed to test coincident weak geochem and interpreted fault structures, intersected a quartz stringer yielding 1.679 oz/T Au over 0.2m.

Underground drilling at Cusac discovered the Lily vein, the eastern extension of the MHG.

In early 1996, the 10 level development, dormant since late 1989, was extended by 250m.

Mining of the Lily from the 1160 commenced in March 1996. The Lily was eventually mined between the 1130 and 1170 levels over a strike length of 150m.

Underground drill testing of the ground north of the Lily resulted in the discovery of the Melissa structure. Access was driven but fault disruption of the structure rendered the vein sub-economic.

A compilation of Vollaug data undertaken in the summer of 1996 led to the re-evaluation of existing reserves and drilling of selected targets. Rehabilitation of the 57 level portal and decline was undertaken and mining began in October of 1996. Mining from the 57 was completed in February of 1997 and work commenced on rehabilitation of the 49 level drift. Production from the 49 began in April. Dilution, due to poor hanging wall conditions, and erratic grade distribution combined to result in lower than anticipated recovered grades. Lowered grade and low gold prices combined to make the zone sub-economic. The mining was stopped in July of 1997.

The Cusac decline was extended east in May-July of 1997 to permit drill testing of the Lily further to the east. This drilling yielded no significant results.

During the same period, an exploration drill program was undertaken to test the area east of the Erickson Creek Fault Zone (ECFZ) near the Main Mine. Initial attempts to follow up isolated intersections from previous drilling met with mixed results. Drilling the Bear vein

extension, east of the Main Mine, resulted in the partial definition of a near surface ore shoot.

Open-pit mining of an ore panel on the Vollaug in the Table Mountain Mine area, initially discovered by Cominco in 1937, and subsequently upgraded by drilling in 1996, was completed between July and September of 1997. Portions of the Melissa and narrow vein sections of the Lily on the 1600 level were mined during September through November 1997.

An overburden trenching and vein sampling program was conducted in July and early August of 1998 on the Sun Claim. The objectives of this work were to expose the Bear Vein, intersected and partially defined by diamond drilling in 1997, and evaluate the lateral distribution and continuity of Au grade within the structure. A 36m strike length portion of the exposed vein yielded a cut composite grade of 1.155 oz/T Au over an average vein width of 0.57m. Widely spaced diamond drill hole intersections suggested that this grade might carry 15m down-dip locally. The decision was made to extract and process a portion of the vein from surface to 6-7m down dip employing an air-track and 235 excavator. The structure yielded approximately 1000 ounces of Au.

Property Geology

Figure 3 illustrates the general geology of the central portion of the property.

Rocks of the Sylvester Allochthon underlie the property. Thrust faults divide the allochthon into three major sub-horizontal lithotectonic sheets. The Basal Sylvester Thrust forms the contact between the lowermost thrust sheet of the allochthon and the underlying autochthonous sediments of the Cassiar Platform terrane. The Table Mountain Thrust marks the top of the lowermost thrust sheet. The Huntergroup Thrust marks the top of the middle thrust sheet. The allochthon was emplaced sometime between the Late Triassic and Mid-Cretaceous (Gordey).

The lowermost thrust sheet is composed predominantly of sub-greenschist facies meta-andesites, cherts and cherty volcanics. Discontinuous tectonic slivers of listwanite, generally interpreted to be metasomatized serpentinites, occupy the Table Mountain Thrust. The middle thrust sheet, less than 500 meters thick, is composed of graphitic argillite with minor interbedded siltstones and sandstones. The uppermost thrust sheet consists of pyroxene porphyritic meta-volcanic rocks with minor intercalated metasediments. These rocks range in age from Late Devonian to Late Triassic (Gordey). Cretaceous and Tertiary lamprophyre and diabase dikes intrude locally (Boronowski).

Gold mineralization occurs in quartz vein systems within the lowermost thrust sheet proximal to the Table Mountain thrust.

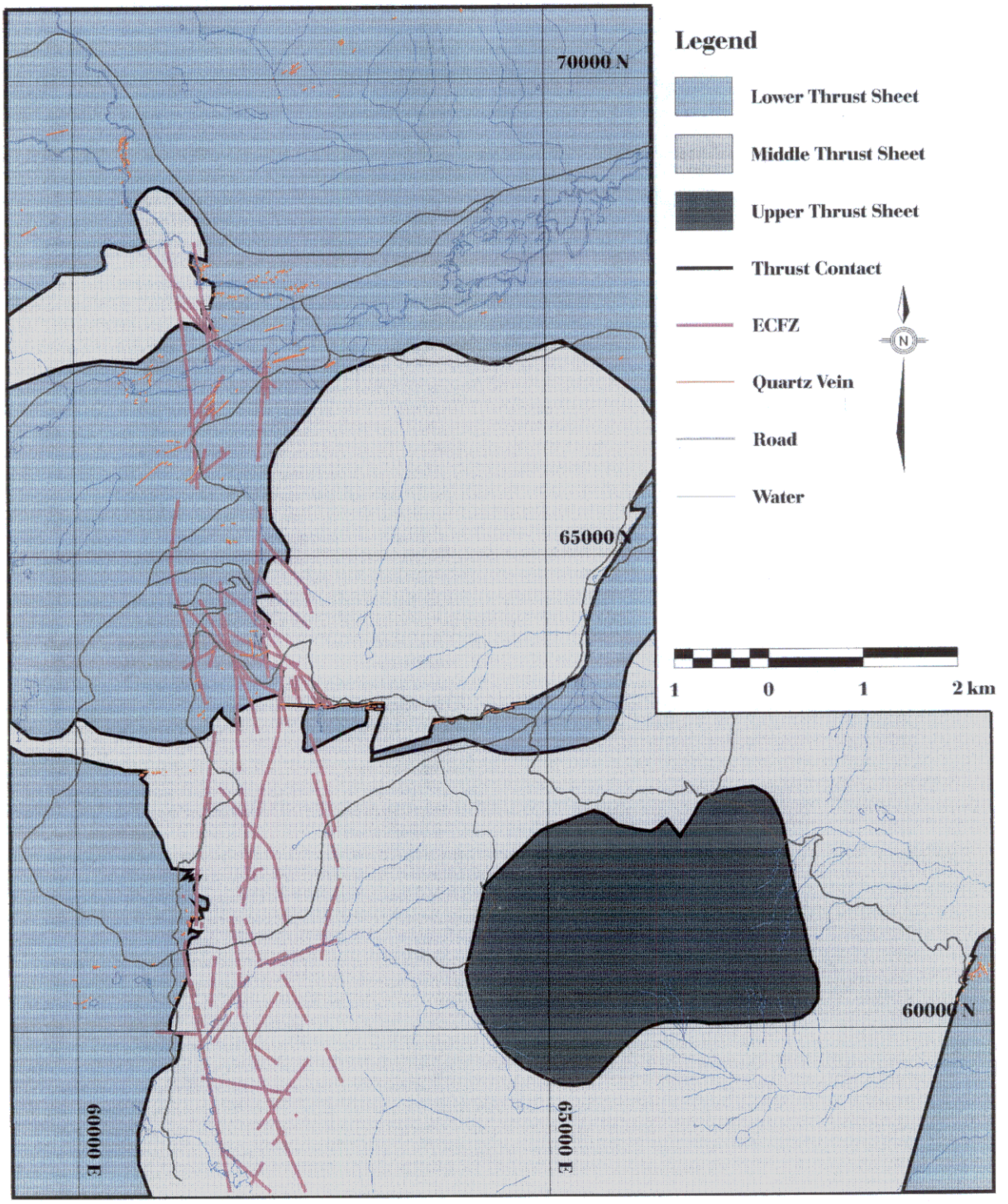
Dating of sericite, associated with auriferous quartz veining, indicates an Early Cretaceous age. This postdates emplacement of the Sylvester Allochthon and pre-dates the Middle to Late Cretaceous emplacement of the Cassiar Batholith. This fact and the absence of exposures of contemporaneous intrusives have lead Ball, a former property geologist, to suggest that the property "could be situated over hidden intrusives localized by early transcurrent faults and associated transtensional zones".

Auriferous polyphase quartz veining is spatially and genetically related to the Table Mountain Thrust. The thrust formed an impermeable structural discontinuity localizing hydrothermal fluid flow. Boronowski has suggested that the listwanites occupying the thrust signify "proximity to a deep crustal break, a possible source of gold, and an environment where acidic gold-bearing hydrothermal solutions would be neutralized and enhance precipitation of gold."

Gold mineralization, within quartz veins, is concentrated at or immediately below the thrust.

Productive veining is concentrated along a north-south trending zone of faulting known as the Erickson Creek Fault Zone (ECFZ). Clusters of alteration zones, veins, and faults, which occur intermittently along the ECFZ are interpreted to represent separate hydrothermal centers. Mineralized veins and alteration zones also occur distal to the ECFZ, however, none of these structures have yielded economic mineralization to date.

Figure 3 : Generalized Geological Map



Two distinct geometries of auriferous veining are recognized (Panteleyev & Diakow);

Type 1 veins (e.g., The Jennie and Eileen), are moderate to steeply dipping and occupy shear structures in the lower thrust sheet immediately below the thrust and generally terminate against the thrust. Generally striking 060-080 and dipping north, segments of these veins, typically 1m to 6m thick, average 200m in length. Vein systems can reach 1.8 km. Ore shoots generally occur within the top 30m of the vein. Gold grades, generally higher and more consistent in the upper portions, decrease and become more erratically distributed down dip.

Type 2 veins (e.g., The Vollaug), are relatively shallow dipping veins that occur within the thrust plane. These veins are have a characteristic ribboned appearance due to the presence of graphitic stylolites. The Vollaug, striking east-west, has a known length of 2.7 km. Thicknesses reach up to 4m but are generally less than 2m. Shallowly plunging elongate ore shoots are localized by flexures in the thrust plane.

The steeply dipping Type 1 veins are more abundant, contain higher-grade gold mineralization, and are easier to mine than the Type 2 veins.

Mineralized veins are polyphase and commonly tectonically banded. Fine-grained mineralized quartz frequently cuts pre-existing early barren, coarse-grained, quartz veining. Gold occurs freely or is found intimately associated with clots of medium-grained euhedral pyrite. Increased sulphide concentrations generally indicate higher gold grade however some of the more spectacular free gold specimens from the property contain minimal sulphides. The common sulphide assemblage is pyrite, tetrahedrite, and sphalerite. Chalcopyrite and galena are less common. Arsenopyrite is rare.

Vein structures are offset by cross-faulting and dikes frequently cut through the ore bodies. Late stage alteration, commonly clay, associated with these cross faults and dikes, and variations in mineral assemblages within veining on either side of a fault, indicate that these structures were present during the final stages of hydrothermal activity.

Multiple distinctive overlapping alteration haloes occur within the volcanics adjacent to auriferous quartz veins. The most extensive is a widespread propylitic halo defined by veinlet stockworks of calcite, chlorite, and quartz with accessory pyrite and chalcopyrite. A carbonate alteration envelope, generally extending less than 15m from veining, increases in intensity towards the vein. This alteration is characterized by bleaching. An iron enrichment halo within the more intensely carbonate altered volcanics is evidenced by the presence of up to 10% coarse euhedral pyrite. Crackle brecciation, a distinctive fine multi-phase brittle breccia with a silica/carbon fracture filling accompanies the higher degrees of carbonate alteration.

With the exception of areas where the erosional surface is below the Table Mountain Thrust, (e.g., Katherine), listwanites are spatially associated with, but not restricted to, every known economic auriferous quartz vein system on the property. Three mineral assemblages characterize progressively increasing degrees of metasomatism within the Listwanites; Serpentine-Carbonate, Talc-Carbonate, and Quartz-Mariposite-Carbonate.

Ore has been produced from four vein systems on the property. Offset segments of a single structure have frequently been individually named. In the Main Mine area, the Jennie, Maura and Alison veins represent a single fault disrupted structure. Similarly, at Cusac, the Eileen,

Big, MHG, and Lily may be interpreted to be the same vein. This is also the case for the Katherine-Bonanza-Bain System. The various mine openings on the Vollaug are all working the same vein.

The East Bain Vein

The Katherine-Bonanza-Bain Vein system is located central to the Nu-Tara mineral claim. The system has a known strike length of 1.5 km. Ore grade shoots within the system have strike lengths in the order of 200m and down dip extents in the order of 30m. Vein widths are in the 0.5 – 3.0 m range. Vein segments within the Katherine-Bonanza-Bain system strike approximately 060 and dip at –55 to the north. The East Bain Vein is the easternmost known portion of the Katherine-Bonanza-Bain Vein system.

The Bain vein was discovered in 1989 by Erickson during the course of an integrated program of trenching, mapping, geophysics, and diamond drilling in the Cusac area. A small mineral inventory was defined via further trenching and drilling. Additional geophysics, geochemistry and diamond drilling conducted in 1990 and 1991 resulted in the definition of two significant reserve blocks on the Bain vein.

The West Bain contained drill-indicated probable reserves of 34,741 tons at 0.687 oz/T Au. The East Bain contained drill-indicated probable reserves of 22,120 tons at 0.565 oz/T Au.

In 1993 Cusac reopened the mine and 300 ton per day milling operation at Table Mountain with the main production target being the West Bain structure. Definition drilling conducted on the West Bain zone confirmed reserve estimates. In the fall of 1993, Cusac initiated development of the West Bain zone. Milling of ore from the West Bain commenced in April of 1994. Underground mining was completed in July of 1995. Crown pillar extraction was completed in August of 1995. Production from the West Bain yielded 24,000 oz Au.

1995 surface diamond drilling of the Katherine vein to the west of the Bain, resulted in the definition of a small open-pit amenable reserve. This block was mined. The Bain Gap, between the East and West Bain blocks, was tested with inconclusive results.

Description of Work

A surface diamond drill program was undertaken to expand and further define an ore panel on the East Bain Vein, intersected and partially defined by diamond drilling in 1990-91. The Notice of Work Permit number is 0100115.

Eleven NQ surface diamond drill holes were completed between August 1st and November 2nd of 2002. Ten of the holes were collared on the Nu-Tara claim. A single hole, 02EB-08 was collared on the Cordoba claim. The Nu-Tara and Cordoba claims, located on the south slopes of Table Mountain cover an area of 600 HA. Record details are tabulated below.

Tenure	Claim Name	Map	Expiry	Units	Area
221712	Cordoba	104P012	30-Jun-06	12	300
222403	Nu-Tara	104P012	30-Jun-03	12	300

The Nu-Tara and Cordoba claims are highlighted in Figure 4.

The locations of the current drill holes are highlighted on Figure 5.

A total of 2395.1m of NQ drilling was undertaken. The drilling was done by Phil Lindenbach of Phil's Diamond Drilling with a Longyear 38. Pad preparation was done with a John Deere 450 bulldozer. Drilling was done from existing roads and pads and minimal new surface disturbance was created. Hole collar location was done by chain and compass from existing surface survey points. Chaining distances involved are less than 100m in all cases. Acid tests were completed as required. Analyses of whole core samples were done by Eco Tech Laboratory Ltd. In Kamloops. A metallic assay procedure was employed. Core logging was done by the author and Lesley Hunt (ne Mortimer), H.B.Sc. Geology. Statements of Qualification are in Appendix A. Drill Logs are appended in Appendix D. Drill core is stored at the Table Mountain Core Storage Site.

02BG-01 was designed to test the Bain Gap area between the East and West Bain panels and was designed on the basis of preliminary interpretation. On going reinterpretation and extrapolation/modeling of major fault structures observed in the Cusac area to the immediate north, suggested that there was indeed a true "gap" in the ore grade portions of the Bain Vein. The "Bain Gap" is a function of displacement on the Eileen Fault in the direction of the strike of the vein. This displacement is in the order of 300 meters. Subsequent drilling was designed to extend and further define the existing East Bain Panel.

02BG-02 was designed to intersect the vein approximately 50 meters west of the western-most previous intersection on the East Bain Vein. The hole intersected a strong quartz vein yielding 5.19 oz/T over 0.6m. This intersection was high (north of the targeted intersection) in the hole, suggesting additional fault offsetting in a cross cutting sense. Further reinterpretation of existing data led to the recognition of the 330 Fault. This fault trends 330 degrees and dips steeply to the west. The structure apparently offsets the vein east block south. The panel intersected in 02BG-02 is designated as East Bain 1. This panel is a small wedge with limited potential (+/- 1200 T of high grade) due the close proximity of the listwanite above, the Eileen Fault below and the 330 Fault to the immediate east. The structural complexity of this area led us to direct our attention to the east end of the East Bain while continuing interpretation.

The original interpretation of the major faults, the Eileen and the Lily, resulted in the definition of two potential panels within the East Bain. The displacement apparent on the structure due to the 330 fault, suggested that there were possibly three panels.

The third hole, 02BG-03 was designed to intersect the central panel high and to the east end of the panel. The hole intersected a complex 3m wide quartz vein system that yielded 0.38 oz/t over 2.6 m. The hole did not intersect the Lily Fault as interpreted. Subsequent reinterpretation of the Lily Fault results in a structure that appears to flank the east Bain and does not disrupt the ore grade portion of the vein structure. This resulted in the amalgamation of the East Bain 2 and 3 Panels. We currently believe we are dealing with only 2 panels, the East Bain 1 panel as defined by the 02BG-02 hole and the East Bain 2 panel that contains the balance of the resource.

Figure 4 : Claim Map : Northeast Corner of M104P022

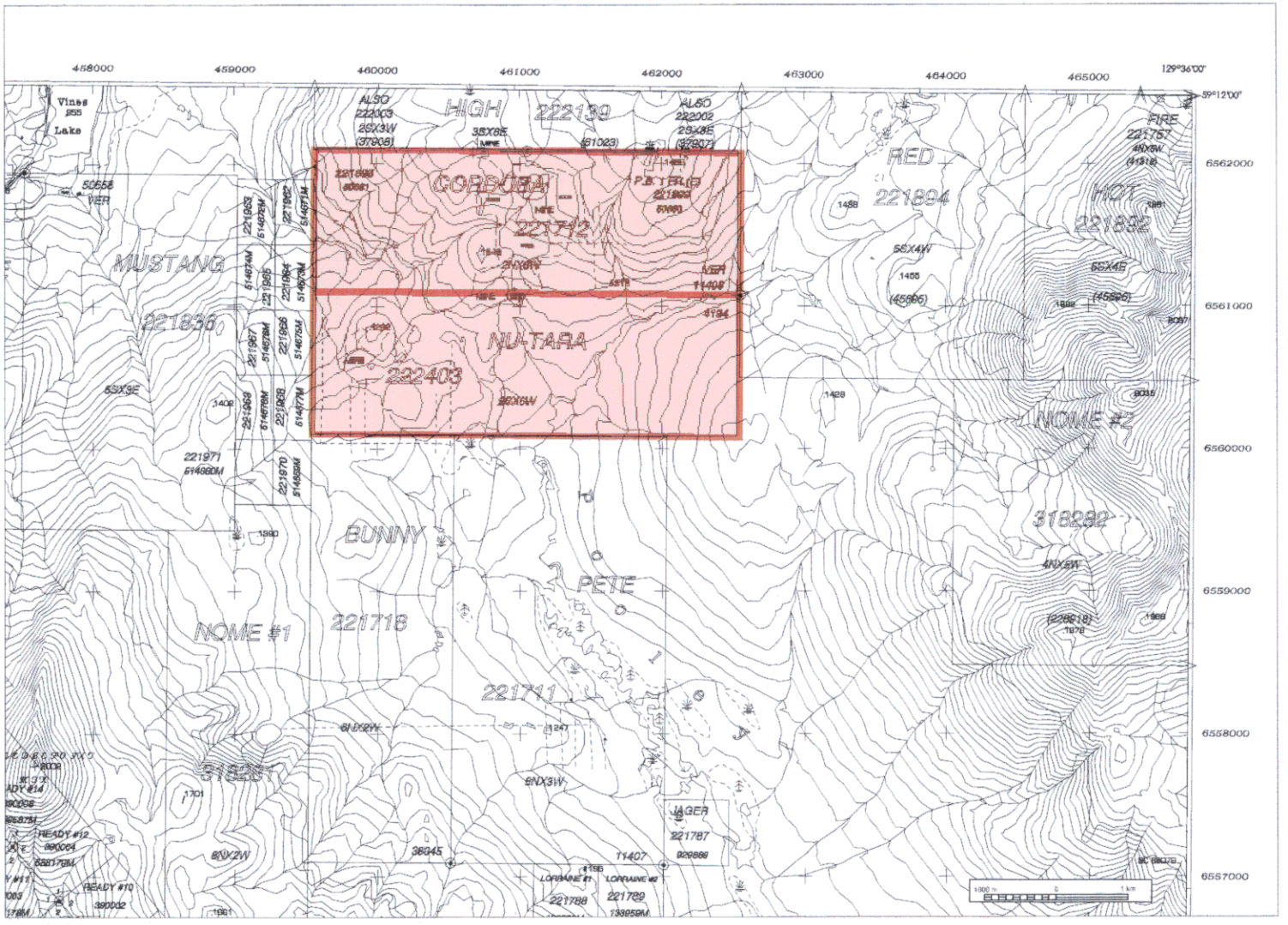
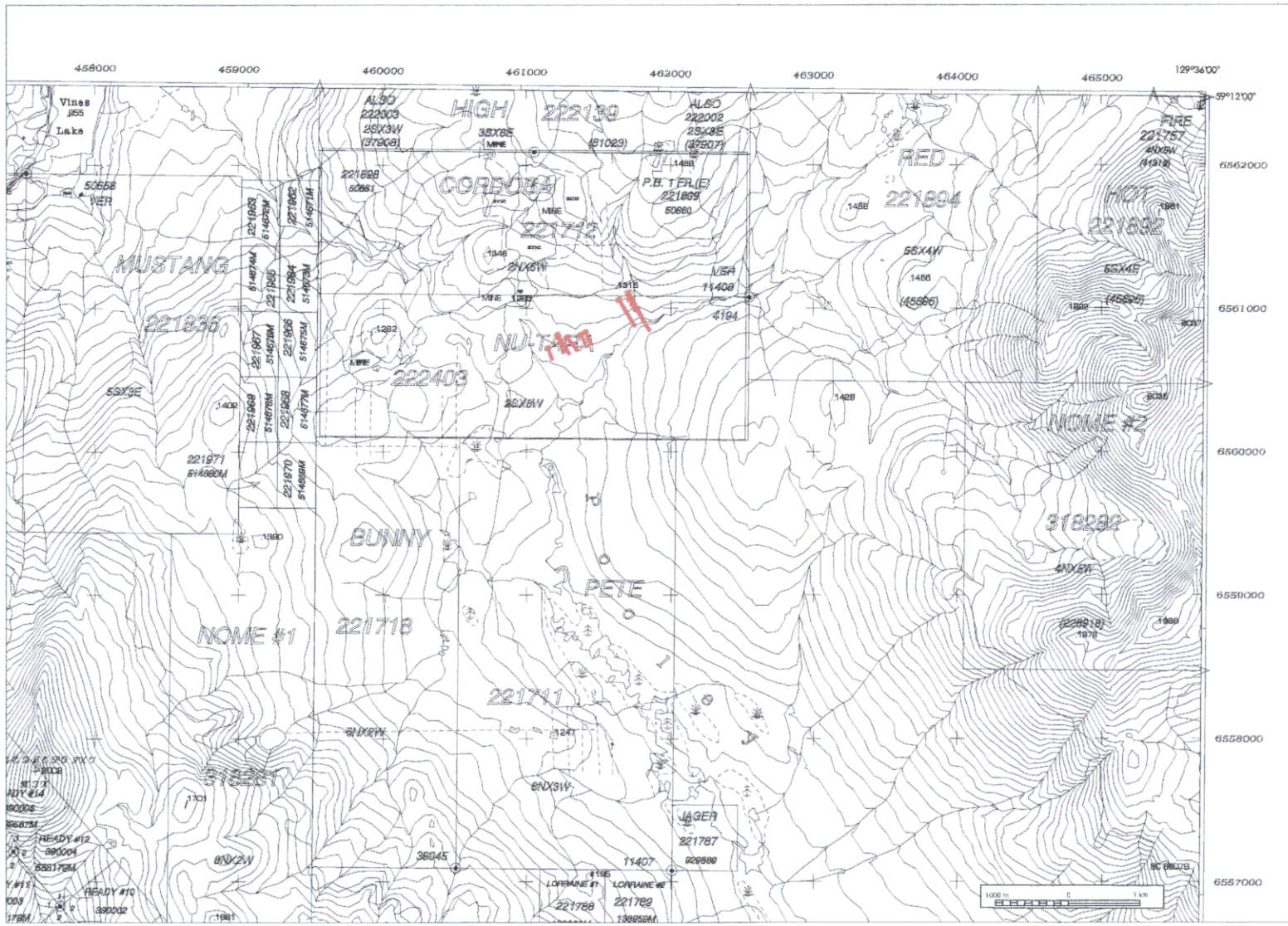


Figure 5 : Northeast Corner of M104P022 with DDH Traces



02BG-04 was designed to extend Panel 2 to the west 50m and to define a target elevation for development. This hole intersected 1.4m grading 0.554 oz/T. Continued reinterpretation of the 330 fault which bounds the panel to the west results in an increase of the ore panel by approximately 10m. It may be necessary to drill a hole west of and below 02BG-04 to more accurately define a target elevation for development.

02BG-05 was designed to delineate the far east end of the panel. The hole intersected a weakly mineralized vein breccia. This intersection has been interpreted to represent the eastern extent of ore grade mineralization. This intersection does not contribute to the reserve however, grade control during mining will delineate a more accurate end of panel.

02BG-06 was designed to further define the panel between two lower grade intersections from previous drilling. A 0.6m Vein Breccia Fault was intersected indicating probable fault offsetting of the vein. One speck of visible gold and limited sulphides were observed in the intersection. The magnitude of displacement on this fault is probably minor.

02EB-07 was designed to test for a "Far East" panel above the Lily Fault, 316m to the east of the east end of Panel 2. The hole intersected the Lily fault at the lower Listwanite contact. This coincidence of structure implies the existence of a second "Bain Gap".

Holes 02EB-08 through 02EB-11 were drilled as a fence on section 8398E and were designed to test for a "Far East Bain" panel 75m east of 02EB-07.

Hole 02EB-08, the northernmost hole on the fence did not intersect any significant veining.

Hole 02EB-09, the second orientation hole on section 8398E, intersected several quartz stringer/ vein breccia zones at 262.7-263.0, 263.7-263.8, 268.5-269.15 and strong faulting and brecciation from 215-300m. The interval 268.5-268.8 yielded 0.10 oz/T Au.

Hole 02EB-10 was drilled to test up dip potential of the mineralized structure intersected in 02BG-09, and was designed to intersect the structure approximately 13m below the interpreted listwanite contact. The hole did not intersect any significant veining.

Hole 02EB-11 was designed to complete the fence and was collared between holes 02EB-08 and 02EB-09. No significant veining was intersected.

Figure 6 is a plan view of current and previous drill hole traces illustrating the location of the Bain Vein Ore Panels.

Figure 7 is a schematic longitudinal section of the Bain Vein.

Figure 6 : Bain Vein Area Drill Hole Traces

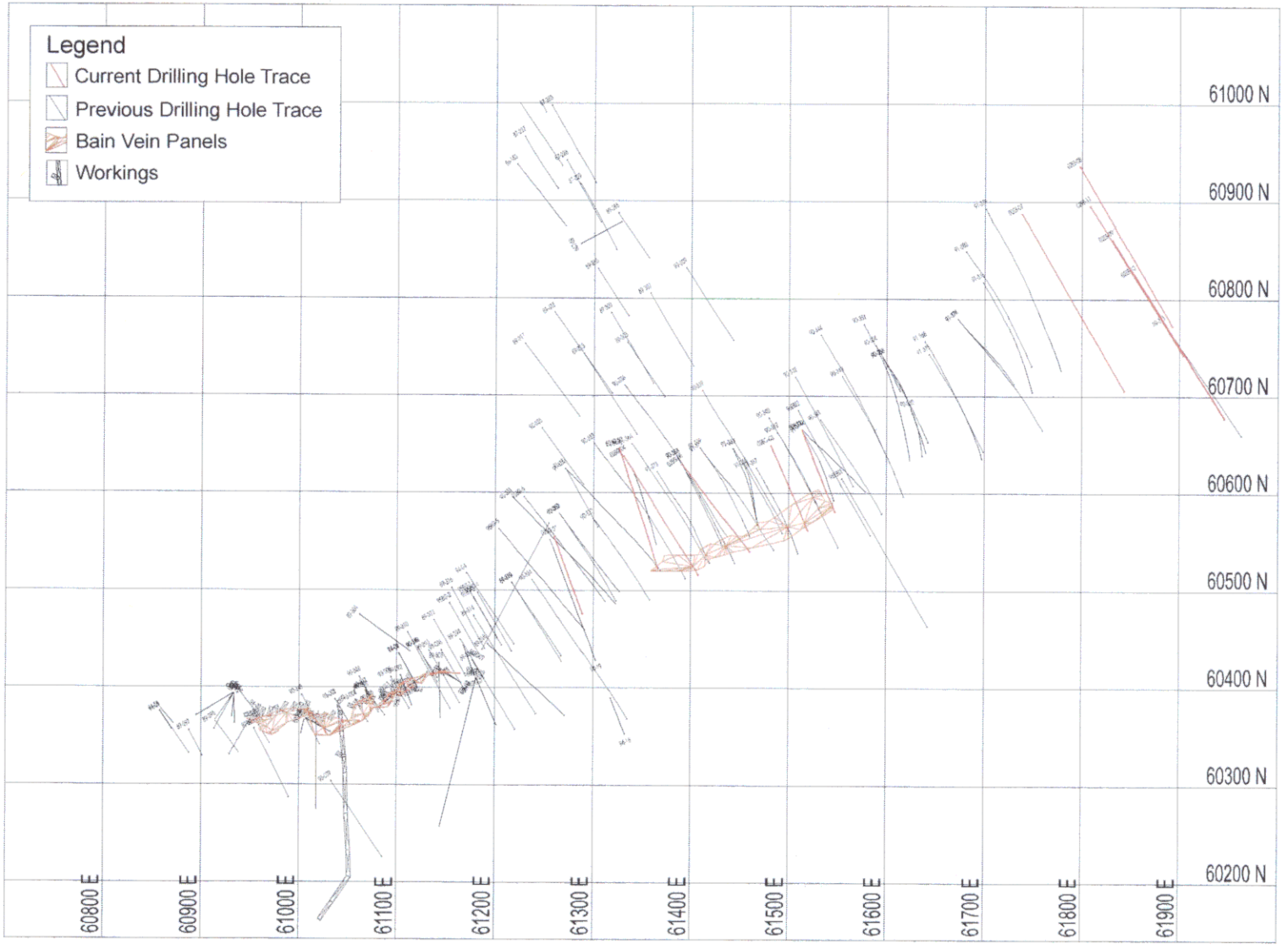
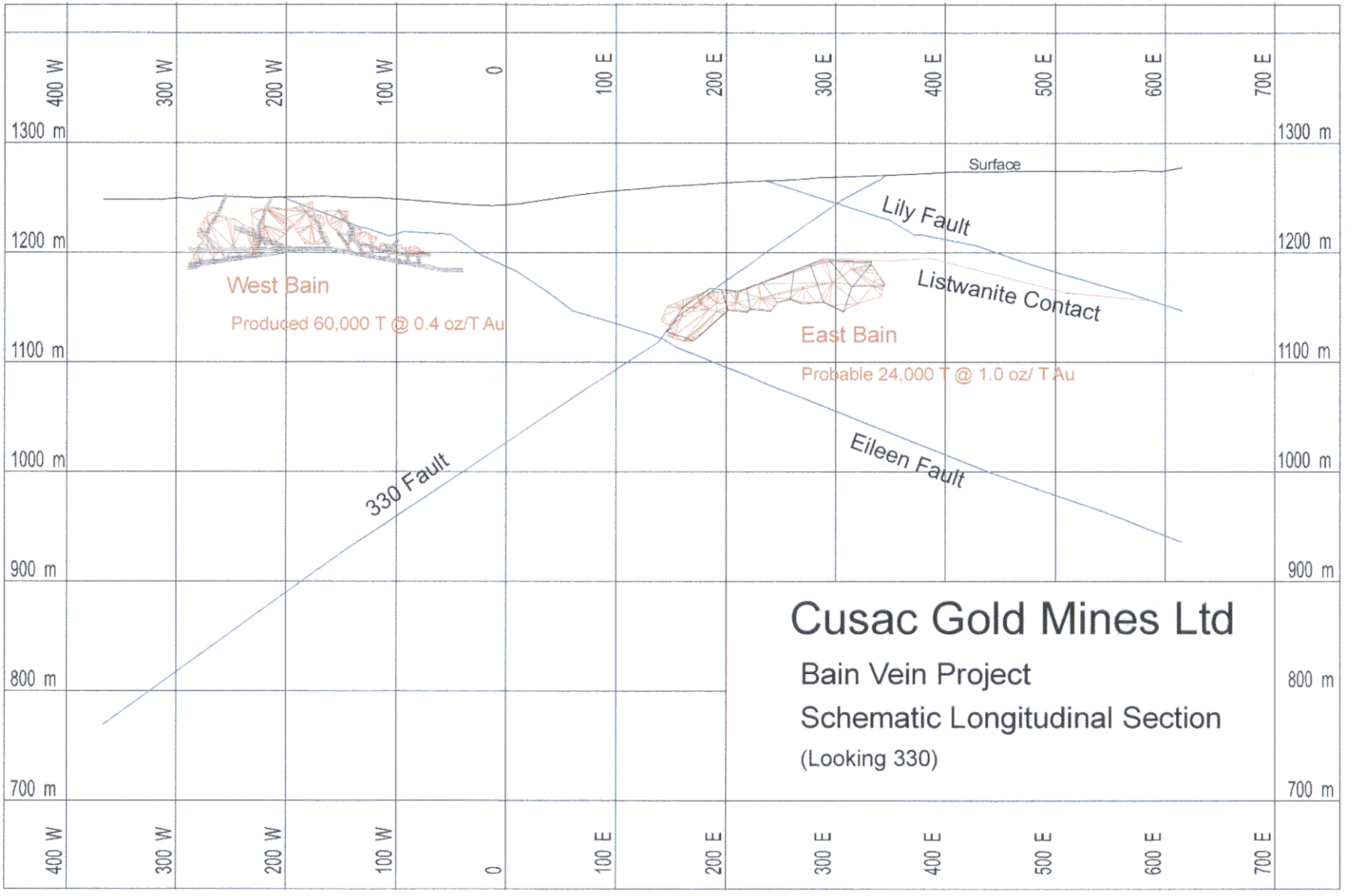


Figure 7 : Bain Vein Schematic Longitudinal Section



Results of work

A drill indicated resource of 24,434 Tons of 0.97oz/t Au has been defined on the East Bain Vein. The panel as defined has a strike length of 200m, an average down dip extent of 30m and an average true width of 1.3m. A mining plan is being developed to access the structure.

The following table summarizes the resource calculation.

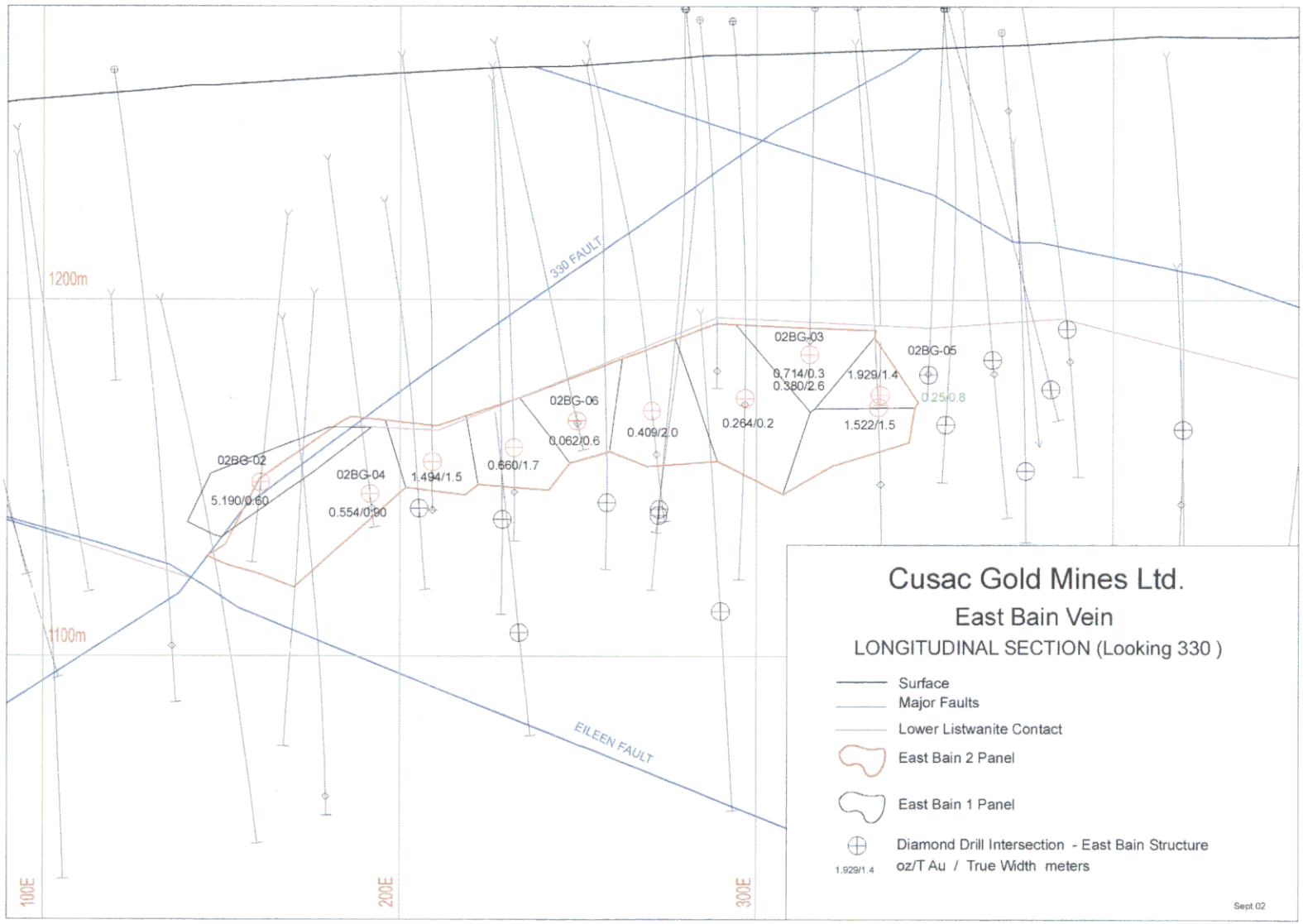
East Bain Vein Resource Calculation Summary

Hole	Au oz/T	Au Cut oz/T	Core Width	Int Angle	True Width	Density T/m3	Area m2	Tons	Uncut Ounces	Cut Ounces	
02BG-02	5.190	2.000	0.60	80	0.59	2.95	732	1276	6622	2552	
02BG-03	0.380	0.380	2.60	85	2.59	2.95	559	4271	1623	1623	
02BG-04	0.554	0.554	0.90	90	0.90	2.95	1643	4362	2417	2417	
02BG-06	0.062	0.062	0.60	85	0.60	2.95	568	1002	62	62	*
90-340	1.520	0.769	1.45	75	1.40	2.95	500	2066	3140	1590	
90-357	0.660	0.660	1.70	80	1.67	2.95	596	2944	1943	1943	
90-359	1.930	0.862	1.40	75	1.35	2.95	347	1384	2672	1194	
91-371	0.410	0.410	2.00	80	1.97	2.95	871	5061	2075	2075	
91-373	1.490	1.490	1.50	75	1.45	2.95	484	2069	3082	3082	
Totals							6,300	24,434	23,636	16,537	
									0.97	0.68	

* Note. VG in intersection and structure fault disrupted.

Figure 8 is a longitudinal section of the resource panel.

Figure 8 : East Bain Vein Longitudinal Section



Conclusions and Recommendations

A feasibility study/mining plan should be developed for the East Bain Vein.

Surface drilling to define further eastern extensions on the Katherine-Bonanza-Bain System is warranted. Prior to commencement of development of the East Bain it may be desirable to attempt an orientation reflection seismology survey over this area. Correlation of drill data with seismic results will be key to the utilization of seismic techniques in other areas of the property.

Respectfully submitted,

Michael J. Glover, B.Sc.

Appendices

Appendix A : Statements of Qualification

I, Michael J. Glover, B.Sc., of
130 Melvin Cr.,
Bowser, BC,

do hereby certify that:

I am a geology graduate of Lakehead University, Thunder Bay, Ontario, 1986.

I have practiced as a geologist, with minor interruptions, since 1984 for various companies in Canada and overseas.

This report is based on knowledge gained during the period June 1995-September 1998 and July through December 2002 while I was employed as a project/mine geologist at the Table Mountain Property by Cusac Gold Mines Ltd..

I may , at any given time, hold an option to acquire securities in Cusac Gold Mines Ltd.

Bowser, BC, December, 2002.

M. Glover, B.Sc.

Appendix B: Cost Statement

5345 Assaying
5352 Drilling
5365 Prof/Tech fees
5372 Supplies & miscellaneous
5378 Travel

5345 Assaying				
	8/30/02	Echo-Tech Laboratories Ltd.	192.50	192.50
	9/26/02	Echo-Tech Laboratories Ltd.	231.00	423.50
	9/11/02	Echo-Tech Laboratories Ltd.	346.50	770.00
	9/11/02	Echo-Tech Laboratories Ltd.	231.00	1,001.00
	10/2/02	Echo-Tech Laboratories Ltd.	82.30	1,083.30
	10/15/02	Echo-Tech Laboratories Ltd.	123.50	1,206.80
	10/25/02	Echo-Tech Laboratories Ltd.	102.70	1,309.50
		Total 5345	*$1,309.50*	
5352 Drilling				
	8/31/02	Phil's Diamond Drilling	19,947.00	21,256.50
	8/31/02	Phil's Diamond Drilling	26,442.00	47,698.50
	9/12/02	Phil's Diamond Drilling	18,819.00	66,517.50
	10/6/02	Phil's Diamond Drilling	41,488.45	108,005.95
	10/21//02	Phil's Diamond Drilling	22,653.50	130,659.45
	10/29/02	Phil's Diamond Drilling	16,761.42	147,420.87
	11/7/02	Phil's Diamond Drilling	18,019.87	165,440.74
		Total 5352	*164,131.24*	
5365 Prof/Tech fees				
	7/1/02	Mystery Lake Consulting	1,930.99	167,371.73
	7/31/02	Mike Glover	1,950.00	169,321.73
	8/19/02	Mike Glover	650.00	169,971.73
	8/31/02	Mystery Lake Consulting	5,200.00	175,171.73
	8/29/02	Mike Glover	4,550.00	179,721.73
	8/31/02	Mike Glover	3,575.00	183,296.73
	9/15/02	Mystery Lake Consulting	4,225.00	187,521.73
	9/15/02	Mike Glover	4,225.00	191,746.73
	9/16/02	Mike Glover	4,225.00	195,971.73
	9/16/02	Mystery Lake Consulting	1,300.00	197,271.73
	9/30/02	Mike Glover	4,550.00	201,821.73
	10/15/02	Mystery Lake Consulting	4,868.50	206,690.23
	10/31/02	Mystery Lake Consulting	5,564.00	212,254.23
	12/9/02	Mystery Lake Consulting	3,825.25	216,079.48
	10/15/02	Mike Glover	4,868.50	220,947.98
	10/31/02	Mike Glover	2,782.00	223,729.98
	11/20/02	Mike Glover	4,173.00	227,902.98
		Total 5365	*62,462.24*	

5372 Supplies & Miscellaneous				
	7/24/02	CFE Equipment	201.45	228,104.43
	7/2/02	CFE Equipment	464.44	228,568.87
	7/31/02	Mike Glover	232.88	228,801.75
	7/11/02	Deakin Equipment	65.00	228,866.75
	9/13/02	Cho Ganestan Cont.	614.40	229,481.15
	8/15/02	Mike Glover	159.02	229,640.17
	8/15/02	Linda Lindenbach/Phil's	1,354.56	230,994.73
	9/12/02	Linda Lindenbach/Phil's	1,130.05	232,124.78
	9/15/02	Mike Glover	411.43	232,536.21
	8/16/02	Mike Glover	889.51	233,425.72
	9/30/02	Mike Glover	477.00	233,902.72
		Mystery Lake /45 days of truck rental	1,800.00	235,702.72
		4 Month misc camp costs from 06/02 to 10/02	300.00	236,002.72
	12/9/02	Mystery Lake Expenses	341.87	236,344.59
	11/01/02 to 11/18/02	Mike Glover Expenses	928.72	237,273.31
	10/1/2002 to 10/15/02	Mike Gover Expenses	1,757.55	239,030.86
	10/16/02 to 10/31/02	Mike Gover Expenses	1,704.22	240,735.08
		Total 5372	*12,832.10*	
5378 Travel				
	7/31/02	Mike Glover	366.46	241,101.54
	8/15/02	Mike Glover	479.55	241,581.09
	9/15/02	Mike Glover	319.27	241,900.36
		Total 5378	*1,165.28*	
			Cost Report Total	**241,900.36**

Appendix C : References

Bain, J., Yip, G., Ball, M., (1991) : Bain Vein Ore Reserve Calculation - Quadrilateral Method. Unpublished company report prepared for Total Energold Corporation.

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Ball, M., (1994) :1994 Exploration Plan for the Table Mountain Gold Property. Unpublished company report prepared for Cusac Industries Ltd.

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Glover, M.J., (1998) : Table Mountain Gold Property : 1998 Project Review and Exploration Proposal. Unpublished in-house report prepared for Cusac Gold Mines Ltd., April 1998.

Gordey, S. P., Gabrielse, H., Orchard, M.J., (1982) Stratigraphy and Structure of Sylvester Allochthon, Southwest McDame Map Area, Northern British Columbia: in Current Research, Part B, Geological Survey of Canada, Paper 82-1B, p101-106.

Panteleyev, A. and Diakow, L.J., (1982) : Cassiar gold deposits, McDame Map-Area 104P/4,5. British Columbia MEMPR Paper-1981-1 p. 55-62.

Westervelt, R. D., (1988) : A summary Report on the Proven - Probable Reserves at the Erickson Creek Gold Mine Property as of January 31, 1988, Unpublished company report prepared for Total Erickson Resources Ltd.

Westervelt, R. D.,(1994) : A Summary Review Report on the Table Mountain Gold Property, Cassiar, British Columbia. Unpublished company report.

Appendix D : Diamond Drill Hole Logs

Cusac Gold Mines Ltd. East Bain Vein Project Diamond Drill Hole Log 02BG-01

Collar	Longitude	61260 E
	Latitude	60555 N
	Elevation	1260 m ASL
	End of Hole	170.1 m
	Azimuth	160
	Dip	-60

Started	01-Aug-02
Finished	07-Aug-02

Tests	Corr'd Dip
36.0	-59.0
72.5	-60.5
121.9	-61.0
164.0	-61.0

Purpose of Hole and Highlights

Logged By: L. Mortimer, M. Glover

02BG-01 was designed to target the Bain Gap Area and was based on preliminary interpretation. On going reinterpretation and extrapolation/modeling of major

Depth From	To	Lith. Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
0.0	5.5	OB	Overburden	Casing through overburden						
5.5	7.3	10a	Andesite Dyke	medium grey green, fine - medium green, mm scale carbonate veinlets, npo, 5-locally 15 % 1-5mm size calcareous porphyroblasts						
7.3	44.7	5Dd	Graphitic Argillite	black to light grey, interbedded mudstones and siltstones. local intense chaotic calcareous stockwork with numerous 1 -10 cm size qtz/carbonate veinlets- npo 23.8-24.2 very blocky core 27.8-28.0 very blocky core 31.6-31.8 very blocky core 36.1-36.4 very blocky core, local coarse grained pyrite in qtz/carb veinlets and disseminated throughout 44.0-44.3 very blocky core, i clay gouge						
44.7	84.2	7b	Listwanite	Talc, chlorite carbonate, m graphite, m talc alteration, local qtz/carb veinlets to 3cm 48.2-50.5 75% recovery, i talc gouge 50.5-51.2 Talc healed breccia, subrounded fragments in iT matrix, wPy disseminated throughout						

Depth From	To	Lith. Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
				53.5-55.8 iT, iClay healed fault breccia, subparallel to core axis, local coarse pyrite to 0.75cm, subhedral with local magnetite , anhedral, disseminated throughout, qtz/carb veinlets, boudins, stockwork localized throughout 62.4-75.6 wTalc, wSericite, fine-grained magnetite disseminated throughout, moderate local foliation 40 -60° to core axis, fine to medium grained pyrite throughout, loc fn grn iPy(po?) 75.6-75.8 iFault, iLeached 75.8-76.2 local qtz/carbonate veinlets and stringers to 10cm 76.2-79.8 variable silicified, local carbonate veinlets to 2cm 79.8-84.2 intensely leached, fractured blocky core, local boxwork after carbonate/pyrite/magnetite, local qtz/carbonate veinlets, npo						
84.2	84.5	5CfBX	Healed Flt Breccia	upper contact 40° tca, 40% angular 5Ca, iD fragments in a pale buff - green translucent silica matrix						
84.5	90.8	5Ca	Meta-Basalt	mD - wD, local quartz/carb brittle fracture filling, local iD banding (pillow selvages?), localized fgr iPy in patches 89.9-90.8 marked increase brittle quartz/carb fracture filling						
90.8	113.7	5Ce	Tuffaceous Chert	Tuffaceous Chert pale grey, competent, siliceous, non foliated, minor quartz/carb veinlets to 1cm , 45°tca 97.2-101.4 30-40% tuffaceous laminae to 2cm 99.4-101.4 cherty beds 45°tca exhibit dark grey irregular quartz stringering, trace disseminated pyrite 103.0-110.3 very slightly softer, more tuffaceous than above and below w-mD massive medium grey green Meta-basalts. Pervasive wK. Local minor iD sections						
113.7	114.3	5CfBX	Healed Flt Breccia	intense quartz/carb stringers/stockwork/patches, 20cm iD5Ca xenoliths, angular, irregular contact (rapid emplacement, "very cold", local patches muddy pyrite to 5cm 116.0-117.0 very low angle fracture plane subparallel tca						

Depth From	To	Lith. Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
114.3	132.0	5Ce	Tuffaceous Chert	w-mD massive medium grey green Meta-Basalts. Pervasive wK. Local minor iD sections						
132.0	134.8	5Ca	Meta-Basalt	weakly brecciated, wispy blebs and fracture coating of blue-green clay, quartz/carb sweats (i.e. assimilation of previous veinlets, stretched and boudinaged), lower contact is distinct 3mm dark silica filled fractures with muddy pyrite 20°tca						
134.8	143.0	5Ce	Tuffaceous Chert	medium grey, local wispy mD tuffaceous laminae, local weak quartz/carb veinlets, local w stockwork						
143.0	145.2	5Ca	Meta-Basalt	mD, intensely fractured with silica flooding/healing, local fine grained pyrite on fracture planes 144.8-145.2 weakly brecciated and silicified						
145.2	146.3	5Ce	Tuffaceous Chert	pale - medium grey with local intense fracture , minor quartz/carb stringering to 1cm average 80° tca						
146.3	153.4	5Ca	Meta-Basalt	pale -medium grey-buff, variably altered m-locally iD, fine-very fn grained, relatively competent, no fabric noted 146.3-147.4 mD, local dolomite fracture coating 147.4-150.4 2-3% 1-3mm disseminated mariposite, numerous quartz/carb sweats, npo to 0.5cm 150.4-151.9 mD 151.9-152.0 grey iK gouge 152.0-153.4 mD, local iSi with muddy pyrite fracture filling						
153.4	154.0	5CaBX	Brecciated Meta-Basalt	iSi matrix containing reworked vein an wallrock fragments, angular, limited motion, 2 stages of brecciation, minor muddy pyrite as angular fragment selvages						
154.0	160.1	5Ca	Meta-Basalt	m-locally iD, wM, local quartz/carb veinlets, few local 5Cf beds with dolomite as wispy fracture filling, local vugs with drusy quartz and white clay veinlets, muddy and fine grained pyrite associated with quartz veinlets						

Depth From	To	Lith. Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
160.1	161.4	QV	Quartz Vein	upper contact 45° tca, lower contact 60° tca, polyphase intensely fractured and re-brecciated, initial milky white quartz, re-flooded with clear to grey quartz, some irregular iD5Ca and 5Cf xenoliths, stretched and fractured, 3% pyrite, of which 90% is stylolitic muddy pyrite, 10% medium grained anhedral to subhedral grains in clots to 2cm and irregular blebs, trace sphalerite	45776	160.1	160.8	0.7	0.030	0.04
					45777	160.8	161.4	0.6	0.085	0.06
161.4	165.7	5Ca	Meta-Basalt	m-locally iD, moderately fractured, local quartz/carb veinlets to 3cm						
165.7	167.2	5CfBX	Healed Flt Breccia	black to dark grey siliceous matrix hosting angular fragments of iD5Ca and 5Cf, 5Ca fragments diminish downhole with increasing 5Cf fragments, very low angle tca ~ 15°, muddy networking pyrite as fracture fillings						
167.2	170.1	5Ce	Tuffaceous Chert	increased crackle breccia to end of hole, coarser breccia, medium grey translucent matrix hosting angular 5Cf frags, 20/80 - frags/matrix, local muddy pyrite as networked fracture fillings						
	170.1	EOH	End of Hole							

Cusac Gold Mines Ltd. East Bain Vein Project Diamond Drill Hole Log 02BG-02

Collar	Longitude	61326 E	Started		08-Aug-02
	Latitude	60646.5 N	Finished		17-Aug-02
	Elevation	1272 m ASL	Tests	Corr'd Dip	
	End of Hole	200.6 m	29.8	-49.0	
	Azimuth	162	81.7	-50.0	
	Dip	-51	124.8	-50.0	
			157.9	-49.0	
			200.6	-49.0	

Purpose of Hole and Highlights

Logged By: M. Glover, L. Mortimer

02BG-02 was designed to intersect the vein approximately 50 meters west of the western-most previous intersection on the East Bain Vein. The hole intersected a strong quartz vein yielding 5.19 oz/T over 0.6m. This intersection was high (north of the targeted intersection) in the hole, suggesting additional fault offsetting in a cross cutting sense. Further reinterpretation of existing data led to the recognition of the 330 Fault. This fault trends 330 degrees and dips steeply to the west. The structure apparently offsets the vein east block south. The panel intersected in 02BG-02 is designated as East Bain 1. This panel is a small wedge with limited potential (+/- 1200 T of high grade) due the close proximity of the listwanite above, the Eileen Fault below and the 330 Fault to the immediate east.

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
0.00	8.50	OB	Overburden	Casing through Overburden						
8.50	31.80	5Dd	Graphitic Argillite	Banded medium grey to black Fgr graphitic sediments. Moderately to well foliated / laminated with moderate cleavage plane fissility. Local cleavage crenulations frequently with minor milky white contorted quartz carbonate stringers (2-8mm), Blocky core. Good recovery.						
31.80	31.90	FLT	Fault	Muddy fault gouge. iK iG						
31.90	57.40	5Dd	Graphitic Argillite	As above.						
57.40	57.90	FLT	Fault	0.1m iK iG muddy gouge @ 45 TCA + 0.4m V.Blocky core.						
57.90	81.10	5Dd	Graphitic Argillite	As above. Fol'n / Fissility @ 45 TCA. LC @ 81.1 is 10cm iK iG gouge apparently @90 TCA. UC of 7b is slightly ground.						

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
81.10	115.20	7b	Listwanite	Talc Carbonate minor Chlorite. Mottled pale to medium grey with local pale green tinge. Talc as lighter clots and seams with no PDO. Fgr. Good RQ. Greasy feel. 81.1 - 93.9 i T 93.9 - 94.6 w BX with translucent green talc stringers. 94.6 - 106.0 More homogenous grey colour. Less Talc. 106.0 - 115.2 i T with locally well developed fissility.						
115.20	123.70	7a	Listwanite	Serpentine Chlorite Carbonate. Dark green Serpentine with 3-10% 1-3mm whispy talc carbonate stringers throughout. W Fol'd. Good RQ						
123.70	126.40	7a	Listwanite BX	Bleached and leached gradational contact breccia zone. Pale-medium grey Talc Q/Ca matrix with angular serpentinite (7a) fragments. Irregular fracture plane orientations.						
126.40	127.80	7c	Listwanite BX	Bleached and leached gradational contact breccia zone. As above but bright green with 15% mariposite. iT and local clay. Last 30cm is I Sil 7c but very blocky.						
127.80	133.50	7b	Listwanite BX	Still gradational contact breccia zone/alteration zone. Pale-med grey. Fgr, massive. 127.8 - 130.8 is intensely crackle brecciated, coarsely brecciated, and pervasively intensely silicified. Weak mariposite locally. 130.8 - 133.5 is w-m Sil m Dol with whispy alteration patches.						
133.50	144.50	5Ca	Meta-Basalts	Meta-basalt - chert. Moderately to intensely silicified volcanics grading? downhole to cherts. Fgr, massive, medium grey/green with local zones of iD alt'n to buff. Local pale-med grey sil flooding. Local black (G?) sil stringers to 6mm. Local Q Ca strs to 2cm. No PDO						
144.50	160.60	5Ca	Meta-Basalts	Meta-basalt. W-mD homogenous medium green grey Fgr massive volcanics. Good RQ and recovery. Minor 1-4mm Q Ca strs and fracture fillings locally. Local whispy chlorite alt'n on fracture planes.						
160.60	161.20	FLT	Fault	iK gouge. Possibly intense alt'n with little motion.						

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
				w-mD massive medium grey green Meta-basalts. Pervasive wK. Local minor iD sections						
161.20	170.20	5Ca	Meta-Basalts	Variably altered meta-basalts. 161.2 - 163.6 mD wK in fracs. Local pervasive iK. Tr muddy Py on fracture planes. 163.6 - 166.3 iK alt'n. Lost 60cm core. Significant grinding. Recovery from 165.4-166 is 40% including 4cm QV frag with 2% cgr Sphalerite and 1% mgr Py assoc with G on fracture planes.	45778	165.60	165.70	0.10	0.033	0.03
170.20	170.80	QV	Quartz Vein	w-mD massive medium grey green Meta-Basalts. Pervasive wK. Local minor iD sections	45779	170.20	170.50	0.30	2.393	0.09
					45780	170.50	170.80	0.30	7.986	0.31
170.80	200.60	5Ca	Meta-Basalts	Variably altered meta-basalts. 170.8 - 171.5 Classic iD. Distinct planar contact at 80 TCA 171.5 - 195.0 Variably altered. 0.5m zones of iD with Q Ca veinlets to 2cm constitute 20% of core. Balance is typical wD medium green. 187.2 - 187.3 Q Ca VLT 191.0 - 191.05 iK gouge 195.0 - 200.6 miD crackle brecciated buff coloured cherty volcanics. G on CBX fractures. Minor white Q Ca strs.						
	200.60	EOH	End of Hole							

Cusac Gold Mines Ltd. East Bain Vein Project Diamond Drill Hole Log 02BG-03

Collar	Longitude	61481.8	E	Started	18-Aug-02
	Latitude	60648.6	N	Finished	
	Elevation	1282	m ASL		25-Aug-02
	End of Hole	142.3	m	Tests	Corr'd Dip
	Azimuth	156		75.0	-48.0
	Dip	-48		140.0	-50.0

Purpose of Hole and Highlights Logged By: M. Glover, L. Mortimer

The third hole, 02BG-03 was designed to intersect the central panel high and to the east end of the panel. The hole intersected a complex 3m wide quartz vein system that yielded 0.38 oz/t over 2.6 m. The hole did not intersect the Lily Fault as interpreted. Subsequent reinterpretation of the Lily Fault results in a structure that appears to flank the east Bain and does not disrupt the ore grade portion of the vein structure

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
0.00	6.70	OB	Overburden	Casing through Overburden						
6.70	14.70	5Dd	Graphitic Argillite	Moderately laminated dark grey/black graphitic argillites and siltstones. Poor RQ.						
14.70	15.10	10a	Lamprophyre	Mafic Dyke. Carbonate amygdules. Competent and Massive. 40 TCA						
15.10	21.30	5Dd	Graphitic Argillite	As above.						
21.30	22.50	QCV	Q/Ca Vein	Milky white quartz carbonate vein with local angular chloritic argillite xenoliths.						
22.50	24.70	5Dd	Graphitic Argillite	As above. Very low core angle						
24.70	25.40	FLT	Fault	iK iG gouge						
25.40	54.90	5Dd	Graphitic Argillite	Competent with local clots cgr Py in minor Q Ca clots to 1/2%. Local intense Q Ca stringering as distorted inter lam feathers						

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
54.90	66.00	5Db	Siltstone	95% medium to pale grey vfgr siltstones with 5% graphitic laminae. Minor local altered mylonitzed Q Ca strs with G						
66.00	73.90	5Dd	Graphitic Argillite	As above. 45-50 TCA						
73.90	77.20	7b	Listwanite	Talc carbonate chlorite, Competent discrete contact at 45 TCA. iT mK w local G. Medium green/grey.						
77.20	90.70	7a	Listwanite	Serpentine chlorite carbonate. Dark green. Carb stringering and stockworking in serpentinite matrix. Discrete UC @ 45 TCA.						
90.70	94.60	7b	Listwanite	Talc carbonate chlorite. Pale-medium grey. Moderately foliated. Fgr. W carbonate stringering. Tr magnetite diss locally.						
94.60	95.50	7c	Listwanite	Quartz mariposite carbonate. Discrete UC at 45 TCA. iSi m to locally iM, Variably fol'd to I locally but not strongly fissile. Local turquoise T along fracture planes.						
95.50	98.40	5Ca	Meta-Basalts	Altered Basalts. miD mK miSi with minor chrysocolla on fracture planes. Blue T locally. No PDO. Relatively massive.						
98.40	101.50	5Ce	Cherty Tuffs	Buff to pale greens and greys. "mylonitized" brecciated cherty tuffs. No PDO. iD matrix. iSi						
101.50	102.20	5Ce	Cherty Tuffs	As above with 40% pale grey silica flood. w-mD massive medium grey green Meta-basalts. Pervasive wK. Local minor iD sections						
102.20	107.60	5Ca	Meta-Basalts	102.2 - 102.6 iD wM mSer. Epidote coloured. 102.6 - 107.0 med green locally iCBX mK with pervasive iSi over last m. Local muddy and fgr Py on fracs. 107.0 - 170.6 Classic iD mod Q Ca clots and vlting. 3% mgr diss anhed Py.						
107.60	107.80	5CfBx	Chal/Fault	w-mD massive medium grey green Meta-Basalts. Pervasive wK. Local minor iD sections						

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
107.80	115.30	5Ce	Cherty Tuffs	Medium green vfgr wD m-iCBX wG. Competent. No fabric. Minor K on fracs.						
115.30	126.20	5Ca	Meta-Basalts	Series of coarsely interbedded/altered very siliceous volcanics and cherty tuffs. 115.3 - 117.6 wDmCBX pale to medium green. mG mChl on fracs. 117.6 - 119.5 Classic 5Ca iD. 119.5 - 120.7 Variably brecciated translucent medium grey siliceous fracture filling to matrix with iD host and/or frags. 120.20120.7 is iG iSi iCBX. 3-5% fgr Py locally. 120.7 - 123.2 5Ca wD m to local iSi, Medium green vfgr, Local G on fracs. 123.2 - 126.2 Pale grey green to buff iCBX miD V siliceous. G on fracs and in CBX						
126.20	126.50	QVBX	Quartz vein breccia	60% milky white QV fragments to 2-3 cm with indistinct selvages in Dk med grey silica matrix. 60 TCA. Upper 10cm is iG py matrix with 30% QV frags. 30% vfgr Py over upper 10cm then 1% disseminated f-mgr Py. Tr mgr honey Sphalerite	45781	126.20	126.50	0.30	0.714	0.198
126.50	129.80	5Ca	Meta-Basalts	Meta-Basalts. miD Locally iCBX. 3% f-mgr Py locally.						
129.80	130.00	QVBX	Quartz vein breccia	Polyphase quartz vein breccia consisting of re-brecciated milky white QV and later medium grey veining. 3% muddy Py with G on fracs. 1% mgr Py. 1% mgr honey Sphalerite.	45782	129.80	130.00	0.20	0.281	0.073
130.00	130.20	5Ca	Meta-Basalts	Classic iD meta-basalts	45783	130.00	130.20	0.20	0.039	0.035
130.20	130.50	QV	Quartz Vein	95% milky white weakly fractured quartz with indistinct secondary medium grey quartz fracture filling and inclusions. Minor Ca on fracs. 90 TCA. 2-3%mgr Py concentrated on fracture plane central to vein. 2% disseminated honey sphalerite. Tr mgr cpy conc. on fracs. 8-10 specks vfgr VG conc on frac plane.	45784	130.20	130.50	0.30	1.373	0.137
130.50	130.90	5Ca	Meta-Basalts	Classic iD meta-basalts	45785	130.50	130.90	0.40	0.033	0.067

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
130.90	131.40	QVBX	Quartz vein breccia	130.9 - 131.1 is QVBX assimilated milky white QV fragments in a medium grey sil matrix. 3-5% m-cgr clotty Py 1% mgr honey Sphalerite. 4 specks vfgr VG assoc with Py.	45786	130.90	131.10	0.20	0.762	0.102
				131.1 - 131.4 is milky white QV with 20% brittle cm scale grey quartz fracture filling. 1% Py assoc with mgr Q.	45787	131.10	131.40	0.30	0.003	0.039
131.40	132.40	5Ca	Meta-Basalts	Meta-basalts. iD mCBX wK on fracs.	45788	131.40	132.40	1.00	0.011	0.023
132.40	132.80	QV	Quartz Vein	Predominantly milky white quartz. Wkly BX'd central portion with 70% med grey quart as indistinct fracture fillings, Numerous G/Py stylolitic fractures. 1% mgr diss Py. 1% mgr diss Sphalerite. 3 specks vfgr VG	45989	132.40	132.80	0.40	0.995	0.280
132.80	142.60	5Ca	Meta-Basalts	Meta-basalts. wD massive medium green weakly fractured and Q CA str'd						
	142.60	EOH	End of Hole							

Cusac Gold Mines Ltd. East Bain Vein Project Diamond Drill Hole Log 02BG-04

Collar	Longitude	61331 E	Started	26-Aug-02
	Latitude	60638 N	Finished	30-Aug-02
	Elevation	1276 m ASL		
	End of Hole	200.6 m	Tests	Corr'd Dip
	Azimuth	148	87.8	-44.0
	Dip	-45	197.5	-44.0

Purpose of Hole and Highlights

Logged By: M. Glover, L. Mortimer

02BG-04 was designed to extend Panel 2 to the west 50m and to define a target elevation for development. This hole intersected 1.4m grading 0.554 oz/T.

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
0.00	8.50	OB	Overburden	Casing through Overburden						
8.50	71.40	5Dd	Graphitic Argillite	Finely Laminated/interbedded black Graphitic argillite and medium grey slightly coarser grained siltstones. Low CA. Very few Q Ca strs 18.6 - 18.7 iG FLT gouge 46.9 - 47.2 "" 50.9 - 51.2 "" 51.7 - 52.1 "" 67.7 - 69.8 iKG gouge with chaotic milky Q Ca strs over 50cm						
71.40	72.50	10a	Lamprophyre	Very dark green medium grained with 10% white and hematite stained anhedral phenos of carbonate. Locally gougy suggesting post emplacement faulting. 5cm Q Ca str sub parallel to CA forms LC. UC is low angle G slip						
72.50	98.80	5Dd	Graphitic Argillite	As above with local chaotic and contorted fol'n 81.3 - 81.4 iG gouge 88.7 - 90.6 iG gouge. FLT zone. Very blocky core. 98.2 - 98.8 iGiK gouge to contact.						

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
98.80	120.20	7b	Listwanite	Talc carbonate chlorite. 98.8 - 99.7 iTiK gouge with 1@ 15cm band of iG. 40TCA 99.7 - 103.3 Blocky core. 7b is translucent medium green grey. Vfgr, massive. iSi without T/Chl banding. 103.3 - 120.2 more typical talc chlorite schist. Chaotic fol'n @40 TCA						
120.20	146.40	7a	Listwanite	Serpentinite. Medium green weakly foliated to massive with 5-10% milky white irregular Q Ca strs @ 2cm scale. 124.7 - 124.9 Milky Q Ca vlt @ 80 TCA 135.2 - 137.3 Darker green fgr with noted absence of Ca strs 138.2 - 138.25 Discrete slip @ 20TCA with iT						
146.40	152.30	7b	Listwanite	Talc carbonate chlorite. Gradational upper contact to talc chlorite schist as above. Decreasing T to LC. LC discrete and marked by Q Ca str @ 45 TCA						
152.30	155.50	5Ca	Meta-Basalts	Listwanitized basalts. Mottled appearance with chl patches on fol'n miD.						
155.50	155.70	FLT	Fault	iK gouge at 25TCA						
155.70	176.70	5Ca	Meta-Basalts	w-mD massive medium grey green Meta-basalts. Pervasive wK. Local minor iD sections						
176.70	177.80	QVBX	Quartz Vein Breccia	45% milky white irregularly oriented disrupted quartz stringers and veining in iD 5Ca. Finer Chloritic inclusions in veining are significantly digested. 2cm 5CfBX at 177.3 @ 50TCA. Zone contacts distinct at 70-80 TCA. Tr f-mgr Py in VBX	45790	176.70	176.90	0.20	0.048	0.012
					45791	176.90	177.20	0.30	0.007	0.003
					45792	177.20	177.80	0.60	0.058	0.061
177.80	183.10	5Ca	Meta-Basalts	w-mD massive medium grey green Meta-Basalts. Pervasive wK. Local minor iD sections						
183.10	183.50	FLT	Fault	iK gouge						

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
183.50	186.40	5Ca	Meta-Basalts	Meta-basalts. W grading to mD to vein. Massive. No strong fabric.						
186.40	187.80	QV	Quartz Vein	186.4 - 186.6 BX vein contact zone with 35% dark muddy Py. 60TCA Chrysocolla over 0.5cm at contact	45796	186.40	186.60	0.20	0.012	0.006
				186.6 - 186.9 Medium grey QVBX with well digested white quartz fragments. 1-2% mgr disseminated Py.	45794	186.60	186.90	0.30	0.025	0.009
				186.9 - 187.8 Moderately fractured milky white QV @ 75 TCA. Concentration of sulphides on fractures over last 40 cm. 6 specks VG in milky Q and on fracs. Py as ground mgr clots on angular brittle fractures in zones parallel to contacts. Minor secondary medium grey Q as mm scale fracture filling.	45795	186.90	187.80	0.90	0.554	0.058
187.80	200.60	5Ca	Meta-Basalts	Meta-basalts 187.8 - 188.4 Classic iD 5Ca 188.4 - 200.6 wmD medium green whispy chl on fracs. Minor Q Ca strs@ 80TCA locally. Local limited iD units.						
	200.60	EOH	End of Hole							

Cusac Gold Mines Ltd. East Bain Vein Project Diamond Drill Hole Log 02BG-05

Collar	Longitude	61514 E	Started		02-Sep-02
	Latitude	60665 N	Finished		06-Sep-02
	Elevation	1282 m ASL	Tests	Corr'd Dip	
	End of Hole	142.6 m	87.8	-51.0	
	Azimuth	158	130.5	-50.0	
	Dip	-50°			

Purpose of Hole and Highlights

Logged By: M. Glover, L. Mortimer

02BG-05 was the hole designed to delineate the far east end of the panel. The hole intersected a weakly mineralized vein breccia. This intersection has been interpreted to represent the eastern extent of ore grade mineralization. This intersection does not contribute to the reserve however, grade control during mining will delineate a more accurate end of panel, i.e. there may be grade in the immediate vicinity of the low grade intersection in 02BG-05.

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
0.00	7.50	OB	Overburden	Casing through Overburden						
7.50	37.20	5Dd	Graphitic Argillite	Graphitic mudstones and siltstones, 90/10, few carbonate stringers and chaotic stockwork of calcareously altered beds and soft sediment deformation of siltstones and mudstones.						
37.20	37.50	10a	Lamprophyre Dyke	Irregular upper contact, massive medium green-grey, fine - med. grained with 15% mm scale white carbonate porphyroblasts						
37.50	70.60	5Dd	Graphitic Argillite	as above, increasing siltstone content to 90% siltstone, 51.5-58.0m, fine to med. gr. py along fract. and diss. conformable with bedding.						
70.60	70.90	10a	Lamprophyre Dyke	Rubble core, as above, very low angle, ~ 20° tca. Fault occupies lower contact with 7a						
70.90	78.70	7a	Listwanite	dark grey green, fine grained numerous hairline carbonate veinlet network fractures, muddy py along fract.						

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
78.70	84.50	7b	Listwanite	light grey, fine grained, mod. sheared, <1% fine grained disseminated chromite 81.0-81.4 FLT, iK, iT gouge 82.4, moderately sheared, increased serp. as coarse grained, locally almost fibrous growths along fracture planes						
84.50	100.90	7a	Listwanite	upper contact gradational, gougy (iK). Dark green, relatively competent, local m-i carbonate string./stkwk, local w. jasperitic alt. 87.5-87.8 wFLT, iK gouge						
100.90	103.40	7b	Listwanite	Light grey, competent. 1% diss chromite. Few aqua blue T vlts.						
103.40	109.10	7a	Listwanite	as above, lower contact has a weak shear related brecciation with ovoid fragments of 7a with no carb. stringering						
109.10	111.30	7c	Listwanite	upper contact shear related breccia, mM finely diss. throughout up to 5%, cm sized anhedral patches and clots, wSi, <1% chromite mm scale diss., tr. fine grained diss py throughout						
111.30	133.50	5Ca	Meta-Basalts	upper contact is competent, 111.3-115.3 contorted foliation (listwanitized volcanics?) 113.7 FLT, lost circulation 115.5-118.0 med. grey, m-i G, iCBX, cherty tuff 118.0-122.4 wG, wCBX, wD 122.4-123.5 m-iG, iCBX, grey cherty tuff 123.5-217.1 wG, w-mCBX, wD 127.1-132.4 iG, m-iCBX w-mD massive medium grey green Meta-basalts. Pervasive wK. Local minor iD sections 133.2-133.5 wBreccia, mSi iD wG	45801	133.20	133.50	0.30	0.463	0.178
133.50	133.75	QV	Quartz Vein	polyphase quartz vein, 80% milky white quartz, mod fractured and re-injected with medium grey quartz along brittle fract. planes, white clay on fract., Tr. fine gr. diss. py, 0.5% muddy py on frac. planes	45796	133.50	133.75	0.25	0.021	0.006

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
133.75	134.15	5CaBx	Fault	w-mD massive medium grey green Meta-Basalts. Pervasive wK. Local minor iD sections	45797	133.75	134.00	0.25	0.016	0.012
					45798	134.00	134.15	0.15	0.036	0.035
134.15	134.30	QV	Quartz Vein	similar to above with 2% fn. gr. diss. py., Tr. mm scale diss. sphalerite Digested 5Ca frags in lower 5cm	45799	134.15	134.30	0.15	0.295	0.064
134.30	134.50	QSTRZ	Quartz Stringer Zone	iD, iSi 5Ca hosts 30% irreg. polyphase qtz/carb stringers mm - cm scale. 2% fine grained py ass. with stringers within and on selvages	45800	134.30	134.50	0.20	0.036	0.017
134.50	142.60	5Ca	Meta-Basalts	134.5-136.6 mD, iSi, wG on fract., few qtz/carb stringers to 2cm 136.6-141.5 medium green, wD, local mCBX 141.5-142.2 iD classic 142.2-142.6 wD as above						
	142.60	EOH	End of Hole							

Cusac Gold Mines Ltd. East Bain Vein Project Diamond Drill Hole Log 02BG-06

Collar	Longitude	61390 E		Started	08-Sep-02
	Latitude	60630 N		Finished	11-Sep-02
	Elevation	1277 m ASL		Tests	Corr'd Dip
	End of Hole	165.7 m		88.0	-47.0
	Azimuth	142°		165.0	-46.0
	Dip	-46°			

Purpose of Hole and Highlights

Logged By: M. Glover, L. Mortimer

02BG-06 was designed to further define the panel between two lower grade intersections from previous drilling. A 0.6m Vein Breccia Fault was intersected indicating probable fault off-setting of the vein. One speck of visible gold and limited sulphides were observed in the intersection. The magnitude of displacement on this fault is probably minor.

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
0.00	2.50	OB		Casing through Overburden						
2.50	28.90	5Dd	Argillite	Interbedded graphitic Siltstones and Mudstones, 30/70, average angle of foliation/bedding 20° tca 22.5-22.7 FLT iK gouge						
28.90	29.80	10a	Lamprophyre Dyke	dark green, med grained, competent, massive, discreet contacts 45° tca						
29.80	48.60	5Dd	Argillite	as above 39.6-39.9, FLT, very rubbly core, w gouge 40.8-42.0 blocky core, local gouge						
48.60	49.70	10a	Lamprophyre Dyke	Dark green-black, med. grained 5% mm scale carb porphyroblasts, local mm-cm scale qtz/carb vlts., Discreet upper and lower contacts at 45° tca						
49.70	63.10	5Dd	Argillite	as above 57.7-58.2 FLT iK gouge						

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
63.10	64.10	FLT	Fault Zone	Gradational iG to iK gouge, contact is marked by local qtz/carb vlts.						
64.10	78.50	7b	Listwanite	Talc-Carbonate-Listwanite, light grey-green, relatively competent, massive local mod foliation						
78.50	78.90	FLT	Fault	iK gouge with competent/blocky 5Dd raft, local light blue talc vlts						
78.90	98.40	7b	Listwanite	competent, "tiger striped" 7b, local coarse grained serpentine bands, cgr. chromite diss. throughout to 75% locally						
98.40	118.30	7a	Listwanite	dark green, mod - int. foliation, numerous carbonate network fracturing, locally chaotic, mostly with pdo foliation 108.0-111.0 hematite alteration patches locally 110.8-110.9 quartz/carb vlt 75° tca. increasing towards contact						
118.30	151.50	5Ca	Meta-Basalts	upper contact discreet, relatively competent core 118.3-121.3 listwanitized 5Ca, iSi, dark grey to black siliceous fracture filling to 1cm 121.3-123.9 mD, iSi w local Se patches 123.9-124.7 m-iD, w-mSi 124.7-134 w-mD w-mD massive medium grey green Meta-basalts. Pervasive wK. Local minor iD sections 135.4-147.5 wD, mSi, few local m-iD with iG/Si vlts/fract filling 147.5-150 classic id, gradational alteration from w-m-iD to qtz/carb vlt sheared fault, iG, 3-5% mgr py diss. in wall rock to qtz/carb vlts. 150.0-151.5 mD, wSi						
151.50	153.00	5Ce	Cherty Tuff	w-mD massive medium grey green Meta-Basalts. Pervasive wK. Local minor iD sections 151.5-151.9 iCBX, iG on fractures 151.9-153.0 m-iCBX, wG, few qtz/carb cm scale vlts, one in particular with mm scale chalcedonic selvages						

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
153.00	153.20	FLT	Fault	healed breccia Contact Zone, upper 10cm is chert frags, qtz/carb str. frags hosted by a siliceous ground up volcanic/chert matrix, approx. 70° tca, lower 10cm typical id 5Ca, qtz/carb stringer breccia, upper 10cm could possible represent 5CfBx without the chalcedonic matrix injection, 5% mgr py, not in qtz/carb frags	45802	153.00	153.10	0.1	0.032	<0.01
153.20	154.30	5Ca	Meta-Basalts	iD classic alteration						
154.30	154.90	QVBX	Quartz Vein Breccia	BAIN VEIN (weak), upper contact 70° tca discreet. Top 30cm moderately brecciated polyphase quartz vein breccia, coarse milky white qtz frags supported in a medium grey qtz. matrix. Frags are partially to mostly digested. 1% med gr. py diss. throughout, 2% muddy py conc. on fract and selvages of vein bx., Tr. disseminated sphalerite and tetrahedrite, 1 speck of visible gold noted. 154.6 FLT, 1cm iK, iG muddy pyrite 154.6-154.7 QV, pale buff overprinting of Dol? 154.7-154.9 QVBX as above	45803	154.30	154.90	0.6	0.062	0.052
154.90	157.80	5Ca	Meta-Basalts	mD, local Se patches, few graphitic/siliceous fract fill.						
157.80	158.20	QSTR	Quartz Stringer	Contacts parallel tca, brecciated overprinting of Dol, i.e. "cloudy" appearance of Qtz. with up to 2cm partially digested 5Ca frags with flesh colored spotty dol alt., Majority of Qtz is wht., cgr with carb patches throughout, one speck of sphalerite noted at lower selvage.						
158.20	163.00	5Ca	Meta-Basalts	wD, local m-I D proximal to weak irregular fractures						
163.00	163.10	QSTR	Quartz Stringer	vuggy milky white, high angle tca, irregular se inclusions, Tr fn gr. py diss. throughout						
163.10	164.00	5Ce	Cherty Tuffs	local iSi flooding, m-I CBX						
164.00	165.70	5Ca	Meta-Basalts	w-mD						

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
	165.70	EOH	End of Hole							

Cusac Gold Mines Ltd. East Bain Vein Project Diamond Drill Hole Log 02EB-07

Collar	Longitude	61738 E	Started		14-Sep-02
	Latitude	60888 N	Finished		26-Sep-02
	Elevation	1309 m ASL	Tests	Corr'd Dip	
	End of Hole	296.3 m	124.4	-45.0	
	Azimuth	150	203.6	-45.0	
	Dip	-45	267.6	-44.0	

Purpose of Hole and Highlights

Logged By: M. Glover, L. Mortimer

To test for far eastern Bain Vein panel above the Lily fault. The hole intersected the Lily fault at the lower Listwanite contact. No vein intersections of note.

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
0.00	8.00	OB	Overburden	Casing through Overburden						
8.00	75.10	5Dd	Graphitic Argillite	85% graphitic mudstones and 15% interbedded less graphitic siltstones. Moderate to intensely foliated locally. Strong clvg plane fissility. Very blocky core to 36m. 27.0 - 32.5 is 15% milky white Q Ca strs with irregular 5Dd *inclusions. No sulphides.*						
75.10	77.60	10a	Lamprophyre dike	20% white carbonate and 20% cgr biotite in a fgr medium green massive ground mass. Distinct chill selvages over 30cm. 45TCA.						
77.60	107.10	5Dd	Graphitic Argillite	As above. 65% sstn, 34% mudstone. Relatively competent. Avg. Fol'n 45 TCA. Locally contorted fol'n						
107.10	107.30	FLT	Fault	iG gouge						
107.30	116.60	5Dd	Graphitic Argillite	As above.						
116.60	117.00	FLT	Fault	iG gouge						
117.00	121.00	5Dd	Graphitic Argillite	As above.						

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
121.00	121.20	QV	Quartz Vein	Milky white QV. Irregular contacts. <1% mgr Py concentrated on selvages.	45804	121.00	121.20	0.20	0.001	<0.01
121.20	125.20	5Dd	Graphitic Argillite	As above.						
125.20	125.70	QSTRZ	Quartz Stringer Zone	60% milky white Q Ca strs with G stylolite inclusions. 40TCA						
125.70	161.50	5Dd	Graphitic Argillite	50% graphitic mudstones and 50% interbedded less graphitic siltstones. Moderate to intensely foliated locally. Strong clvg plane fissility. Blocky core. 154.3 - 154.4 iG gouge. wFLT						
161.50	163.40	QV	Quartz Vein	Milky white bull QV with minor leached out Ca inclusions.						
163.40	163.60	FLT	Fault	iG fault gouge with Q fragments						
163.60	169.00	5Dd	Graphitic Argillite	As above.						
169.00	169.20	FLT	Fault	w-mD massive medium grey green Meta-basalts. Pervasive wK. Local minor iD sections						
169.20	188.30	5Dd	Graphitic Argillite	As above. V low core angle.						
188.30	188.90	FLT	Fault	W Fault zone. Blocky core with iGiK gouge locally. w-mD massive medium grey green Meta-Basalts. Pervasive wK. Local minor iD sections						
188.90	207.20	5Dd	Graphitic Argillite	Typical but relatively competent core.						
207.20	208.00	10a	Lamprophyre dike	Biotite Ca porphyritic/porphyroblastic mgr dike @ 20 TCA						
208.00	209.00	5Dd	Graphitic Argillite	Typical but relatively competent core.						
209.00	211.00	10a	Lamprophyre dike	Biotite Ca porphyritic/porphyroblastic mgr dike @ 40 TCA						
211.00	211.20	FLT	Fault	iK gouge in 10a						

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
211.20	214.40	5Dd	Graphitic Argillite	Typical but relatively competent core.						
214.40	229.30	7c	Listwanite	Quartz mariposite carbonate. 214.4 - 220.0 Indistinct contact with altered 5Dd grading to 7c. Finely laminated over top 30cm then light green buff. Contorted fol'n. Moderately leached. mM wK. Lost water at contact. Probable FLT. 220.0 - 229.3 iM w-m fol'd. No distinct fissility. Relatively blocky core throughout with local flts and gouge as noted. 216.0 - 216.9 iFLT. Lost circ and poor recovery. 216.9 - 220.5 Relatively competent. Good recovery. iM 220.5 - 220.7 iKiM gouge @ 50TCA 220.7 - 221.2 Rel comp 221.2 - 221.3 FLT. Lost circ. 221.3 - 221.9 Rel comp 221.9 - 222.0 FLT. Lost circ. 222.0 - 223.4 Rel comp. 223.4 - 224.5 FLT. Blocky core and gouge. 224.5 - 229.3 Relatively competent iM 7c						
229.30	237.10	5Ca	Meta-Basalts	Meta-Basalts. UC FLT. Very blocky core with intense fracturing and brecciation. No well defined penetrative fabric. Generally fgr buff grey green... 229.3 - 230.7 iD 5Ca Mk 230.7 - 231.7 5CaBX. 60% muddy Py matrix supporting angular 5Ca frags. No PDO 231.7 - 237.1 Blocky fgr iCBX wK chert tuffs. G in CB fracs. mD	45805	230.70	231.70	1.00	0.012	0.035
237.10	237.30	QVBX	QV Breccia	70% milky white Q with 20% angular wall rock frags (iD 5Ca) and 10% Med grey Q frac filling. 5% muddy and Tr mgr Py	45806	237.10	237.30	0.20	0.003	0.017
237.30	240.00	5Ca	Meta-Basalts	Meta-Basalts. mD mCBX fgr buff green						
240.00	246.90	5Ce	Cherty Tuffs	Grey>green mCBX. Aph to fgr. Gradational contact over 1m with 5Ca frags(?) in 5Ce						

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
246.90	247.20	FLT	Fault	Fault Breccia. 8% angular aphanitic black very siliceous fragments (5Cf iG? 5Dd iSi?) in partially leached pale-medium grey Q CA matrix. 30TCA. Muddy Py over lower selvage/1.5cm						
247.20	255.20	5Ce	Tuffaceous Chert	iCBX pale-med grey aphanitic chert. Comp core.						
255.20	256.60	5Ce	Tuffaceous Chert	Black aphanitic very siliceous massive. Locally mBX and frac'd. Minor 6mm Q Ca strs and frac filling. iG 5Ce or I Sil'd 5Dd. No bedding/fol'n. rel comp core.						
256.60	258.50	5Ce	Cherty Tuffs	Buff to pale grey aphanitic to very fine grained wCBX cherty tuff. Comp core						
258.50	259.90	10a	Lamprophyre dike	Medium grained with plag and biotite phenos to 3-5mm. Fgr selvages. 45TCA. Comp core.						
259.90	269.30	5Ca	Meta-Basalts	Meta-basalts. Relatively massive fgr. wD wCBX vw chl. Medium green. Good RQ and recovery to 278 278.0 - 282.2 Blocky core. wK 282.2 - 285.4 Slightly cherty 285.4 - 290.0 5Ca iD classic 290.0 - 296.3 5Ca wD						
	269.30	EOH	End of Hole							

Cusac Gold Mines Ltd. East Bain Vein Project Diamond Drill Hole Log 02EB-08

Collar	Longitude	61798	E	
	Latitude	60936	N	
	Elevation	1318	m ASL	
	End of Hole	267.6	m	
	Azimuth	150		
	Dip	-46		

Started	27-Sep-02
Finished	05-Oct-02

Tests	Corr'd Dip
90.8	-45.0
179.2	-44.0
267.6	-46.0

Purpose of Hole and Highlights
Further step out from East Bain (to east) . Initial orientation hole on section 8398E. No vein intersection

Logged By: M. Glover, L. Mortimer

Depth From	To	Lith Code	Lithology	Description
0.00	8.50	OB	Overburden	Casing through Overburden
8.40	140.00	5Dd	Graphitic Argillite	Intercalated graphitic argillites (vfgr black wkly fissile) and medium grey fgr siltstones. Relatively competent core. 16.0 - 20.7 >Sstn 20.7 - 22.0 Blocky core with minor gouge @ 21.8 - 22.0. Minor Q Ca strs 22.0 - 26.7 Mud>Sstn 26.7 - 26.8 Milky white Q Ca vlt. 26.8 - 32.0 Mud>Sstn 32.0 - 47.5 Sstn > Mudstone. Competent core. V.Wk fissility. Few 2-10mm Q Ca strs 47.5 - 47.6 iG gouge. wFLT 47.6 - 53.0 Sstn > Mud 53.0 - 54.0 Minor milky white Q Ca strs. 54.0 - 58.7 Mud>Sstn 58.7 - 59.0 Milky white Q Ca vlt. 59.0 - 60.1 Slightly blocky mudstone. 60.1 - 60.5 Milky white Q Ca vlt. 60.5 - 63.1 Sstn=Mud 63.1 - 63.5 iGiK gouge. Fault

Tag	From	To	Length	Au oz/T	Ag oz/T

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
				63.5 - 70.5 Sstn=Mud 70.5 - 70.9 Milky white Q Ca vlt. 70.9 - 86.1 Mud=Sstn. Moderate increase in degree of clvg plane/bedding fissility. Locally contorted foliation. 86.1 - 86.3 Blocky core/lost core. FLT? 86.3 - 99.6 iG Mudstone 99.6 - 100.0 iG rubbly gouge. FLT 100.0 - 128.8 Relatively competent. Sstn>Mud 128.8 - 129.6 iG rubbly FLT 131.3 - 131.6 Bull CGR white Q Ca vein.	45807	131.30	131.60	0.30	0.002	0.015
140.00	140.90	10a	Lamprophyre	Mgr andesitic dike with 10% cgr biotite phenos and 5% calcitic amygdules? To 6mm						
140.90	168.40	5Dd	Graphitic Argillite	Intercalated graphitic mudstones and medium grey fine grained siltstones. Relatively competent. Weakly fissile. Minor milky white Q Ca strs locally.						
168.40	168.50	QVLT	Quartz veinlet	w-mD massive medium grey green Meta-basalts. Pervasive wK. Local minor iD sections						
168.50	189.10	5Dd	Graphitic Argillite	As above to 178.6 then 178.6 - 182.3 Very blocky core. Possible weak to moderate fault. No gouge. 182.3 - 189.1 Relatively competent. w-mD massive medium grey green Meta-Basalts. Pervasive wK. Local minor iD sections						
189.10	193.20	FLT	Fault	189.1 - 190.1 iG rubble and gouge 190.1 - 192.7 Grading from Bull Q Ca stringering to vein breccia with milky white strs grading to breccia matrix. 192.7 - 193.2 iGiK gouge						
193.20	193.70	7c	Listwanite	Quartz mariposite carbonate. Light grey mottled with Q Ca strs. wM mSi mK UC@ 40 on FLT						
193.70	194.10	FLT	Fault	iKiG gouge						

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
194.10	200.70	7b	Listwanite	Talc Chlorite iT medium grey green very competent very weakly foliated. Local chromite as 1mm disseminated grains. Lower contact is discrete and competent						
200.70	237.10	5Ce	Cherty Tuffs	Very competent vfgr-aphanitic medium grey green moderately fractured to intensely fractured locally. wD iSi mottled alteration. Locally grn-buff > green 209.7 - 209.8 Moderate in-situ brecciation. iD frags in wD matrix. 80% angular mm scale fragments. 209.8 - 215.7 mgrey green iCBX with G fracture filling. Hard. Competent. Local iD zones. 215.7 - 224.0 Homogenous light-medium green fgr. Competent. Vw CB. 224.0 - 237.1 Medium grey-green iCBX as above.						
237.10	237.20	FLT	Fault	Lost circulation						
237.20	256.60	5Ce	Cherty Tuffs	237.2 - 241.2 iCBX with G. Local mBX 241.2 - 241.3 Healed breccia. Black silica matrix. wD frags. 5CaBX. 45TCA 241.3 - 252.6 Alternating medium green w-m CB and grey iCBX with G 252.6 -255.1 UC w gouge then buff (yellow/grn) alteration but m not iD. mCBX with G and local cherty beds/bands. 255.1 - 255.2 5CaBX 45TCA. Angular Q Ca and G fragments. Vuggy with drusy Q and Py 255.2 - 256.6 mGreen grey to locally iCBX cherty tuffs. Few cm scale Q Ca vlts. Vuggy.						
256.60	256.90	FLT	Fault	Lost circulation. Not especially blocky core. Leached carbonate matrix with angular cherty tuff fragments.						
256.90	259.00	5CaBX	Cherty Tuff Breccia	m-I CB'd cherty tuffs with local Q Ca iBX'n. Local chalcedonic matrix.						

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
259.00	267.60	5Ca	Meta-Basalts	Medium green fine grained relatively homogenous. Relatively unaltered wD basalts. Local iK leached zones @ 261.2, 261.7, 265.1 over 2-5cm. 8cm milky white Q Ca str @ 261.5.						
	267.60	EOH	End of Hole							

Cusac Gold Mines Ltd. East Bain Vein Project Diamond Drill Hole Log 02EB-09

Collar	Longitude	61831 E		Started	07-Oct-02
	Latitude	60861 N		Finished	21-Oct-02
	Elevation	1305 m ASL			
	End of Hole	307.3 m		Tests	Corr'd Dip
	Azimuth	148		87.8	-46.0
	Dip	-45		173.1	-46.0
				270.7	-44.0

Purpose of Hole and Highlights Logged By: L. Mortimer, M. Glover

Second orientation hole on section 8398E. Intersected Qstr/QVBX zones at 262.7-263.0, 263.7-263.8, 268.5-269.15. Strong faulting and brecciation from 215-300m

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
0.00	10.20	OVB	Overburden	Casing through Overburden						
10.20	16.00	5Dd	Graphitic Argillite	Intercalated graphitic argillites and less graphitic siltstones. Relatively competent						
16.00	18.20	10a	Lamprophyre	Medium green medium grained with 15% 2-6mm calcareous porphyroblasts 10% cgr biotite phenocrysts.						
18.20	34.20	5Dd	Graphitic Argillite	As above 20.7 - 20.8 Q Ca str. Milky white Cgr. Slightly vuggy. 29.8 - 34.2 increased % of mudstones.						
34.20	36.30	FLT	Fault	Rubbly core						
36.30	64.60	5Dd	Graphitic Argillite	36.3 - 41.0 90% Siltstone 41.0 - 43.5 90% mudstone 43.5 - 64.6 90% Siltstone. Blocky core. 51.5 - 52.6 rubbly core. W FLT 56.8 - 57.3 rubbly core. W FLT						

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
64.60	64.90	QV	Quartz Vein	Milky white weakly fractured with 20% irregular angular siltstone xenoliths. Rubbly core. 1 @ 3mm speck galena. Tr muddy Py associated with xenolith selvages.						
643.90	72.60	5Dd	Graphitic Argillite	Intercalated graphitic argillites and less graphitic siltstones.						
72.60	75.00	FLT	Fault	Very rubbly core. 50% core recovery.						
75.00	118.30	5Dd	Graphitic Argillite	75.0 - 78.3 4 @ 10cm bull Q strs at 1.5m intervals. Tr cgr Cpy at 75.6 otherwise no Sx. Blocky core. 78.3 - 92.3 Intercalated graphitic argillites and less graphitic siltstones. Relatively competent core. 92.3 - 92.5 FLT iG gouge 92.5 - 101.5 Intercalated graphitic argillites and less graphitic siltstones. Relatively competent core. 101.5 - 101.6 FLT iG gouge						
118.30	120.40	FLT	Fault	Major fault. Very blocky core. 15% iG gouge.						
120.40	120.80	QVBX	Quartz vein breccia	w-mD massive medium grey green Meta-basalts. Pervasive wK. Local minor iD sections						
120.80	121.40	QVb	Quartz vein, bull	Milky white quartz vein. 15% mm-cm scale chloritized siltstone inclusions. Vuggy vein with white clay in few vugs. Tr-1/2% vfgr Py assoc with inclusions. LC at 35TCA						
121.40	164.90	5Dd	Graphitic Argillite	Typical. Blocky with local 10cm bull Q vlts. Few weak local faults over 20cm. 50/50 sstn/mudstone. w-mD massive medium grey green Meta-Basalts. Pervasive wK. Local minor iD sections 160.0 - 160.5 wFLT. Blocky core. Minor gouge. Minor Q Ca strs						
164.98	165.50	QV	Quartz vein	Milky white weakly fractured with very minor pale grey secondary quartz on brittle fractures. Irregular angular xenolithic contacts UC @ 35, LC @ 45. Lower 10cm is iFrac'd with G stylolites and tr vfgr Py.						

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
165.50	166.30	5Dd	Graphitic Argillite	Typical.						
166.30	166.60	QSTRZ	Quartz stringer zone	1@ 12cm and 1@ 3cm milky white Q strs at 45TCA. Slightly vuggy with green talc?clay? Vug filling to 5%.						
166.60	176.20	5Dd	Graphitic Argillite	166.6 - 172.6 Atypical. 50% contorted grey quartz carbonate stringers/laminae. Possibly primary. Possibly shear zone fabric? 172.6 - 175.6 mudstone>sstn 175.6 - 175.9 FLT iG gouge.						
176.20	177.30	QSTRZ	Quartz stringer zone	20% irregularly oriented milky white q strs. 1-5cm. No Sx						
177.30	192.90	5Dd	Graphitic Argillite	177.3 - 187.8 70% sstn 30% mudstone. W fissility. Rel competent. Local muddy Py disseminated in laminae. 187.8 - 188.0 wFLT. Minor K gouge. 188.0 - 192.9 w patchy chlorite alteration. Mostly siltstone.						
192.90	201.90	7b	Listwanite	Talc Chlorite iT mottled grey green very competent very weakly foliated. Local chromite as 1mm disseminated grains. Lower meter is "baked" silicified.						
201.90	208.40	10a	Lamprophyre	Medium grained dark green with 1% 1-3mm calcareous amygs and 15% 1-5mm biotite phenos. 20-30TCA						
208.40	214.10	5Ce	Cherty tuffs	Graphitic cherty tuffs. Very distinct unit. Black aphanitic massive siliceous (iSi, iG, local iK in more tuffaceous zones.)						
214.10	215.20	5Ca	Meta-Basalts	iD buff grey. iFrac'd. wK. No distinct fabric. W muddy Py on fracs.						
215.20	216.00	5Ce	Cherty tuffs	Graphitic cherty tuffs. Very distinct unit. Black aphanitic massive siliceous (iSi, iG, local iK in more tuffaceous zones.)						
216.00	216.70	5Ca	Meta-Basalts	iD buff grey. iFrac'd. wK. No distinct fabric.						
216.70	222.50	FLT	Fault	Major fault zone.						

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
				216.7 - 217.9 5CfBX. Grey cherty/chalcedonic matrix supporting indistinct mm-cm scale iD frags grades to mostly siliceous 5Ca with chalcedonic fracture filling. Also greenish chrysocrase. Local muddy Py on frac selvages 217.9 - 218.2 iK gouge with chrysocrase rubble. 218.2 - 218.6 5CfBX Grey cherty/chalcedonic matrix supporting indistinct mm-cm scale iD frags. 218.6 - 221.5 mD m-iK 5Ca. Very blocky with minor irregular Q Ca strs. 221.5 - 221.6 10a 45 TCA 221.6 - 222.5 w-mD wK 5Ca. Rubbly core. Some ground core. Local jasperitic/hematitic alteration patches.						
222.50	233.80	5Ca	Meta-Basalts	222.5 - 224.9 Relatively competent wD m-iSi mm chl specks. 224.9 - 225.3 mD m-iK very blocky 225.3 - 225.8 Relatively competent wD m-iSi. W Bx'n with diffuse fragments of iFrac'd cherty material. 225.8 - 226.1 5Ca. Distinct bed. Homogenous. Vfgr. Grey. iSi, iD with 10% rounded 2-10mm calcareous amygdules? 226.1 - 227.7 m-iD, m frac'd with grey silica frac filling. 228.2 - 229.3 wD. mFLT. Rubbly, blocky core iK gouge local to 40cm patches. 229.3 - 233.8 wD mottled appearance with partially digested? grey cherty patches. Relatively competent core.						
233.80	234.00	5CfBX	Chal/Fault	Rubbly core. Pale grey chalcedonic matrix hosts mm to 2cm angular 5CaiD, 5Ce, black 5Ce frags. Local mariposite. wK alt'n of some 5Ca frags. Also 5cm polyphase milky white and grey Quartz str. Few chalcedonic fracture fillings. No Sx in str. Minor f-mgr Py assoc with frac selvages in CfBX						
234.00	235.00	5Ce	Cherty Tuffs	grey green. M to locally iCBX						
235.00	250.30	5Ca	Meta-Basalts	wD local iG on fracs 241.2 - 241.3 wFLT. Rubbly core						
250.30	250.40	5CfBX	Chal/Fault	3cm milky white qstr. No SX						

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
				5CfBX as 2cm band along FW. 5CfBx is iG iMuddy Py. Very fine fragments, much grinding. Hosted by iD 5Ca classic						
250.40	250.60	5Ca	Meta-Basalts	Classic iD 5Ca. Few chalcedony filled mm scale fractures.						
250.60	250.70	QVBX	Quartz vein breccia	80 TCA polyphase milky white/grey q str with creamy carbonate overprinting? And fracture filling. Some siliceous iD 5Ca fragments with indistinct margins<1% f-mgr Py diss throughout.	45808	250.60	250.65	0.05	0.003	0.015
250.70	254.20	5Ca	Meta-Basalts	w to locally mD iG on fracs. Local iG patches to 2cm. Few mm scale chalcedonic vlts. 1 carb veinlet/1mm with Py						
254.20	254.80	FLT	Fault	iK gouge mD5Ca						
254.80	260.70	5Ca	Meta-Basalts	As above 258.4-258.6 wFLT rubbly core.						
260.70	260.80	5CfBX	Chal/Fault	Dark grey chalcedonic matrix host mm scale angular to rounded fragments of 5Ca, 5Ce, and Qtz. F-mgr Py throughout frags and rarely in matrix.						
260.80	262.70	5Ca	Meta-Basalts	Siliceous cherty volcanics. iFrac'd, iD local iG numerous bull Q floods and few strs. Local massive Py assoc with iCBX zones						
262.70	263.00	QBX	Quartz Breccia	Polyphase quartz and locally chalcedonic matrix hosts 5-10mm scale angular to rounded fragments with diffuse through distinct margins. 1/2% vfgr Py and <1% fgr Sph disseminated throughout quartz. F-mgr Py with frags.	45809	262.70	263.00	0.30	0.022	0.012
263.00	263.70	5Ca	Meta-Basalts	iD, iG, Local mK on fracs.						
263.70	263.80	QBX	Quartz Breccia	Polyphase milky white and grey quartz and locally chalcedonic matrix hosts 5-10mm scale angular to rounded fragments with diffuse through distinct margins. Tr vfgr Py and Tr fgr Sph disseminated throughout quartz. F-mgr Py with frags.	45810	263.70	263.80	0.10	0.044	0.035

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
263.80	264.00	5Ca	Meta-Basalts	iD classic, iFrac'd, iSi						
264.00	264.10	5CfBX	Chal/Fault	Irregular 2-3 cm band of grey chalcedonic matrix hosts mm scale angular fragments of 5Ce. Locally vuggy. Distinct contacts. m Py disseminated throughout.						
264.10	268.40	5Ce	Cherty Tuffs	iD w-m CBX with G. 264.7 - 264.73 3cm CG Q str. No SX. Distinct 2-3mm band of muddy Py on selvages. 267.3 - 268.4 Black 5Ce. Few barren qstrs						
268.50	269.15	QSTRZ	Quartz stringer zone	Qstrz/5CfBX 30% polyphase q strs/stockwork, 35% 5CfBX, 35% 5CaiD Qstrs and 5CfBX are intimately associated with each other, ie CfBX often rims the strs. No PDO. HW of zone at 70TCA FW at 55TCA. Within the 5CfBX, grey chert hosts mm scale frags of 5Ca. Variable nature of fragments from angular to rounded 5Ca. Local vugs and fgr drusy qtz. 1% f-mgr Py ,1-2% fgr Cpy, 2% f-cgr Sph in qstrs. fgr diss Py in CfBX.	45811 45812	268.50 268.80	268.80 269.15	0.30 0.35	0.100 0.045	0.060 0.040
269.15	278.80	5Ca	Meta-Basalts	mD mK diss throughout. Local iCBX grades to none @270.1. Alt'n as distinct flesh coloured specks. 274.4 - 275.2 iD 275.2 - 275.25 5cm qstr. No SX. 275.25 - 278.8 mD						
278.80	278.85	5CfBX	Chal/Fault	3 cm band of grey chalcedonic matrix hosts mm scale angular fragments of 5Ca. 2cm qstr on HW						
278.85	281.25	5Ca	Meta-Basalts	278.85 - 279.2 iD classic 279.2 - 281.0 wD 281.0 - 281.25 iD						
281.25	281.35	5CfBX	Chal/Fault	5CfBX/QVBX						

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
				Q Ca breccia with some chalcedonic fracture fillings hosting qstr fragments and 5Ca fragments. Barren. iPy in 5Ca. Massive fgr py on fracs and in BX						
281.35	288.10	5Ca	Meta-Basalts	281.35 - 281.7 iD classic 281.7 - 288.1 w-mD Local CBX with G. Local light blue clay/talc on fractures.						
288.10	288.20	5CfBX	Chal/Fault	Light grey chalcedony seals a fracture sub-parallel to the core axis. Q Ca vlts with muddy Py as disseminations and on the selvages. iG on fracs. Local light blue clay/talc on fracs. Locally vuggy with cgr drusy Qtz.						
288.20	290.00	5Ca	Meta-Basalts	mD,mK throughout, loc iCBX with graph. On fract.						
290.00	290.10	FLT	FLT	lost circulation						
290.10	292.50	5Ca	Meta-Basalts	mD,mK throughout, loc iCBX with graph. On fract.						
292.50	292.70	5CfBX	Chal/Fault	Qtz/Carb stringer with some chalcedonic patches and fract. Fillings. Grey Chal. Fract. Filling host v. few dissolved frags of 5Ca, iG/iSi as fract filling in lower portion of fault. Drusy qtz lines vugs, Fine grained py dissem. In Chal.						
292.70	295.10	5Ca	Meta-Basalts	m-iD, iG as fract fill. mCBX locally						
295.10	295.20	5CaBX	Volcanic Breccia	iD, mK, iG matrix hosts mm-cm scale iD 5Ca frags. (autobreccia)						
295.20	296.70	5Ca	Meta-Basalts	mD, mK						
296.70	296.80	5CfBX	5CfBX	35° tca, dk. Grey chalcedonic matrix hosts mm and cm scale iD 5Ca frags, wht. K in clots, intensely vuggy with drusy qtz lining.						
296.80	297.50	5Ca	Meta-Basalts	m-iD, mG on fract mK throughout						
297.50	299.90	10a	Lamprophyre Dyke	35° tca						

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
				297.5-298.8 Altered Lamp. Dyke, pale grey-buff, 1-5mm scale yellow plag.? (alt. Biotite) phenocrysts, mm scale calcareous porphyroblasts to 3%. 298.8-299.9 biotite phenocrysts become apparent, increasing to abundant (5-15%) to bottom of dyke.						
299.90	307.30	5Ca	Meta-Basalts	wD, competent to 304.6 304.6-307.3 mD, local wD, mK pervasive and on fracture planes.						
	307.30	EOH	End of Hole							

Cusac Gold Mines Ltd. East Bain Vein Project Diamond Drill Hole Log 02EB-10

Collar	Longitude	61854 E	Started		22-Oct-02
	Latitude	60825 N	Finished		29-Oct-02
	Elevation	1294 m ASL	Tests	Corr'd Dip	
	End of Hole	246.3 m	115.2	-45.5	
	Azimuth	148°	212.8	-46.0	
	Dip	-45.5°			

Purpose of Hole and Highlights Logged By: L. Mortimer, M. Glover

To Test up dip potential of mineralized QVBX intersections in DDH # 02BG-09, planned to intersect the structure approximately 13m below the interpreted listwanite contact

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
0.00	8.30	OB	Overburden	Casing through overburden						
8.30	138.90	5Dd	Argillite	Interbedded graphitic siltstones and mudstones, extremely blocky core to 24.0m 15.5-18.0 mFLT, rubbly core 24.0-52.5 competent core, 70% siltstones, avg. angle tca 40° - 45° 52.5-60.4 competent mudstones, few siltstone beds 60.4-65.6 core becomes blocky, more siltstones 65.6-65.7 wFLT, sheared rubbly core 67.1-71.5 mostly mudstone, very blocky 71.5 5cm gouge/rubbly core 72.5-90.0 competent core, interbedded siltst./mudst - 50/50, local chaotic soft sediment deformation 90.0-92.2 blocky core, no significant faulting noted 92.2-92.5 wFLT, rubble core 93.8-93.9 iK gouge, rubble core 93.9-94.6 wK, blocky mudst.						

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
				94.6-95.0 FLT, iK gouge, very rubbly core 95.0-96.4 moderate blocky siltst. 96.4-96.6 iK gouge, rubbly core 96.6-106.6 weakly blocky interbedded siltstones/mudstones, becoming competent downhole, locally chaotic soft sediment slumping and calcareous beds are chaotically strewn throughout 106.6-106.8 FLT, iK gouge/rubble 106.8-110.6 relatively competent 5Dd 110.6-110.8 iK gouge 110.8-135.0 competent, mostly siltstones 135.0-135.3 blocky core, minor I gouge, wFLT 135.3-138.9 as above, competent core, mostly siltstones						
138.90	140.20	QVb	Quartz Vein	snow white, weakly fractured, very minor graphitic inclusions, upper contact 65° tca, lower contact is ground						
140.20	145.40	5Dd	Argillite	graphitic interbedded siltstones and mudstones, relatively competent, local contorted laminae						
145.40	149.70	5Ca	Meta-Basalts	upper contact is non faulted 45° tca, pale green, fine grained moderately foliated/ competent with 10% 2-3mm anhedral chlorite, minor 1cm milky quartz/carb stringers, lower contact distinct 45°.This unit is very different than most volcanics we see. It could be listwanitized volcanics or chloritized Argillites, we would rather it be chloritized Argillites!						
149.70	164.50	5Dd	Argillite	competent, mostly mudstones, local chaotic calcareously altered beds w-mD massive medium grey green Meta-basalts. Pervasive wK. Local minor iD sections						
164.50	165.50	FLT	Fault	rubbly core, mK						
165.50	177.40	5Dd	Argillite	As above						

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
177.40	205.20	7a	Listwanite	w-mD massive medium grey green Meta-Basalts. Pervasive wK. Local minor iD sections 183.4-183.5 wFLT, iK gouge 183.5-205.2 typical 7a as above						
205.20	206.90	7b	Listwanite	upper contact moderately gougy, light grey, competent, few specks chromite, lower contact discreet						
206.90	223.40	5Ca	Meta-Basalts	massive, fine grained, medium green, variable weak clay alt. , local wD alt., giving a mottled appearance (localized weak fabric developed, local zones of iK and ileaching especially 209.0-209.6 209.0-209.6 zone of iK and intense leaching 211.8-212.3 zone of iK and intense leaching 221.7-221.8 zone of iK and intense leaching 222.3-223.4 m-iD, local aqua blue clay? Talc? on fractures, few 1cm milky qtz/carb stringers, no sulphides noted, no pdo						
223.40	224.70	7c	Listwanite	upper contact 30° tca, discreet slip with blue clay/talc, lower contact 1cm 5CfBX 80° tca, mottled greenish-buff, fine grained, no well developed fabric, patchy blue talc/clay alteration, wM alteration begins at 229.4 increasing to iM at lower contact						
224.70	227.50	5Ca	Meta-Basalts	medium grayish green, aphanitic, local iCBX						
227.50	228.40	10a	Lamprophyre Dyke	intensely altered, light grey, porphyritic (altered biotite phenocrysts to 7%), local sericite amygdules						
228.40	232.60	5Ca	Meta-Basalts	greenish-grey, wD, w-mCBX, iG on fractures						
232.60	237.50	5Ca	Meta-Basalts	Variably Altered Healed Fault Breccia Zone 232.6-232.8 5Ca, m-iD 232.8-232.9 5CfBX, pale grey silica supporting angular iD fragments						

Depth From	To	Lith Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
				233.2-233.3 5CfBX 234.2-234.3 5CfBX 234.6-235.1 5CfBX 236.7-237.2 increasingly cherty 237.2-237.5 5CfBX						
237.50	246.30	5Ca	Meta-Basalts	massive fine grained, medium green, local w-mK, blocky core over first 2.5m						
	246.30	EOH	End Of Hole							

Cusac Gold Mines Ltd. East Bain Vein Project

Diamond Drill Hole Log 02EB-11

Collar	Longitude	61808	E	Started	30-Oct-02
	Latitude	60896	N	Finished	06-Nov-02
	Elevation	1312	m ASL	Tests	Corr'd Dip
	End of Hole	255.4	m	115.2	-45.0
	Azimuth	148			
	Dip	-45			

Purpose of Hole and Highlights

Logged By: M. Glover, L. Mortimer

Depth From	To	Lith. Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
0.0	8.2	OVB	Overburden	Casing through overburden						
8.2	31.4	5Dd	Graphitic Argillites	Typical intercalated graphitic mudstones and pale to medium grey siltstones. 8.2 - 12.3 sstn>>mudstn. Rel competent 12.3 - 13.9 mudstn>>sstn. Very blockr. Possible FLT 16.7 - 17.7 Possible wFLT. Gf 19.9 - 21.1 QVBX. Milky white Q and creamy carbonate matrix support 50% coarse angular 5Dd fragments. 21.1 - 22.0 20% 5mm - 5cm milky white Q strs 22.0 - 31.4 sstn>>mudstn						
31.4	31.9	QV	Quartz Vein	Milky white QV. Minor G Stylolites. 2cm clot mgr Py composed of 3-5mm Euhedral grains. 3%OA. Tr cpy.	45813	31.4	31.9	0.5	0.013	<0.01
31.9	33.1	5Dd	Graphitic Argillites	sstn>>mudstn						
33.1	33.4	QVb	Quartz Vein	Milky white Cgr QV. Upper 5cm BX'd with mSer mG mK alt'n.						

Depth From	To	Lith. Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
33.4	63.1	5Dd	Graphitic Argillites	33.4 - 45.6 70% sstn. Competent core. Fol'n @ 35 TCA 45.6 - 45.9 wFLT. Blocky core. iG. 45.9 - 52.4 70% sstn 52.4 - 63.1 50/50						
63.1	63.2	QSTR	Quartz Str	G stylolitic milk white qstr with tr fgr Py proximal to Sty. UC80 LC90						
63.2	66.8	10a	Lamprophyre Dike	Dark green mgr massive with 10% biotite and 10% rounded calcareous amygdules. LC discrete and irregular with chill over 2cm						
66.8	87.6	5Dd	Graphitic Argillites	As above 66.8 - 72.5 mud>>sstn local contorted fol'n 72.5 - 79.7 50/50 79.7 - 81.4 iG mudstones. Blocky Poss wFLT 81.4 - 87.6 50/50 Local Ca alt'n						
87.6	88.0	QVb	Quartz Vein bull	CGR milky white. Vuggy. 2% ser clots. Tr Py with minor G inclusions. LC 30						
88.0	124.4	5Dd	Graphitic Argillites	88.0 - 101.0 50/50. Lam at 45TCA 101.0 - 101.1 iG gouge at 45 TCA 101.1 - 103.6 50/50 103.6 - 103.9 Possible wFLT some iG gouge. 103.9 - 124.4 50/59 sstn/mudstn						
124.4	126.1	10a	Lamprophyre Dike	Dark green mgr massive with 10% biotite and 10% rounded calcareous amygdules. UC 39cm chill irregular @30 TCA. LC 10cm chill@70 TCA						
126.1	171.6	5Dd	Graphitic Argillites	Typical 131.9 - 132.0 wFLT iG gouge 139.9 - 140.1 iG gouge. Rubbly core. 142.6 - 156.8 increasingly blocky 157.2 - 164.3 relatively competent sstn>mudstn 168.0 - 171.6 50/50 competent. Local chaotic Q Ca stsrs						

Depth From	To	Lith. Code	Lithology	Description	Tag	From	To	Length	Au oz/T	Ag oz/T
171.6	172.2	QVb	Quartz Vein bull	UC@30TCA LC indistinct 5Dd BX @30TCA. Cgr. Milky white.						
172.2	178.6	5Dd	Graphitic Argillites	Mudstones>>Siltstones 172.2 - 173.7 iG mudstone 173.7 - 173.9 iG gouge 173.9 - 175.8 5Dd iG 175.8 - 177.1 iG gouge and rubbly core. Major FLT. 50% disrupted milky white qstrs, Blocky with G stylolites 177.1 - 178.6 50/50 blocky core						
178.6	180.0	5Dd	Graphitic Argillites	Listwanitzed Sediments? Pale to medium grey green to black well foliated locally Bx'd. Blocky. iT iG						
180.0	180.5	QVBX	Quartz Vein Breccia	Intensely disrupted and brecciated milky white intensely fractured QV with 20% medium grey secondary qtz and angular 5Dd fragments. iK iG iSer. Tr mm scale Py and Cpy	45814	180.0	180.5	0.5	0.005	<0.01
180.5	181.1	5Dd	Graphitic Argillites	Very fissile/sheared iiG mudstones. Minor Q Ca strs						
181.1	190.0	7b	Listwanite	Talc Carbonate, minor chlorite Massive fgr pale grey iTalc 188.4 - 188.9 iT gouge. mFLT. LC indistinct and gradational. No angle.						
190.0	211.0	5Ca	Meta-Basalts	190.0 - 202.1 Vfgr massive competent pale to medium greeenish grey. wD. wChl on fracs 202.1 - 203.0 Possibly iSil possibly 5Ce. Incipient wCBx 203.0 - 211.0 Competent pale grey cherty tuffs. wCBX						
211.0	212.7	FLT	Fault	competent core but Lost circ 3 times						
212.7	255.4	5Ce	Cherty Tuffs	Variable pale grey to pale green w-mCBx with G. Competent, massive ggod RQ. Local in-situ bx'n. From 247.7 is pale to medium green wD homogenous vwCBX. Dry						

Appendix E : Assay Certificates

Eco Tech LABORATORY LTD.

ASSAYING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ENVIRONMENTAL TESTING

10041 Dallas Drive, Kamloops, B.C. V2C 6T4
Phone (250) 573-5700 Fax (250) 573-4557
email: ecotech@direct.ca

CERTIFICATE OF ASSAY AK 2002-274

CUSAC GOLD MINES LTD.
C/O Consolidated Pacific Bay Minerals Ltd.
911 - 470 Granville Street
Vancouver, BC
V6C 1B6

27-Aug-02

ATTENTION: Guil Brett

No. of samples received: 5
Sample type: Core
Project #: None Given
Shipment #: None Given
Samples submitted by: Mike Glover

		Metallic Assay			
ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)
1	45776	1.03	0.030	1.4	0.04
2	45777	2.90	0.085	2.1	0.06
3	45778	1.13	0.033	1.1	0.03
4	45779	82.04	2.393	3.2	0.09
5	45780	273.85	7.986	10.6	0.31
QC/DATA					
Standard:					
Std-M		1.90	0.055		
Mpla				70.0	2.04

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

JJ/ejd
XLS/02
mjflover@island.net

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CERTIFICATE OF ASSAY AK 2002-309

CUSAC GOLD MINES LTD.
911-470 Granville Street
Vancouver, BC
V6C 1B6

10-Sep-02

ATTENTION: Guilford Brett

No. of samples received: 9
Sample type: Core
Project #: None given
Shipment #: None given
Samples submitted by:

ET #.	Tag #	Ag g/t	Ag (oz/t)	Metallic Au (g/t)	Metallic Au (oz/t)
1	45781	6.8	0.198	24.49	0.714
2	45782	2.5	0.073	9.63	0.281
3	45783	1.2	0.035	1.33	0.039
4	45784	4.7	0.137	47.08	1.373
5	45785	2.3	0.067	1.13	0.033
6	45786	3.5	0.102	26.13	0.762
7	45787	0.3	0.009	0.12	0.003
8	45788	0.8	0.023	0.38	0.011
9	45789	9.6	0.280	34.11	0.995

QC DATA:

Resplit:			
R1	45781	7.2	0.210
Repeat:			
R1	45781	7.2	0.210
Standard:			
Mpla		69.8	

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Jutta Jealouse
B.C. Certified Assayer

JJ/kk
XLS/02
CC: Mike Glover

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CERTIFICATE OF ASSAY AK 2002-310

CUSAC GOLD MINES LTD.
911-470 Granville Street
Vancouver, BC
V6C 1B6

10-Sep-02

ATTENTION: Guilford Brett

No. of samples received: 6
Sample type: Core
Project #: None given
Shipment #: None given
Samples submitted by:

ET #.	Tag #	Ag (g/t)	Ag (oz/t)	Metallic Au (g/t)	Metallic Au (oz/t)
1	45790	0.4	0.012	1.64	0.048
2	45791	0.1	0.003	0.24	0.007
3	45792	2.1	0.061	1.98	0.058
4	45793	0.2	0.006	0.40	0.012
5	45794	0.3	0.009	0.87	0.025
6	45795	2.0	0.058	18.99	0.554

QC DATA:

Resplit:

R1	45790	0.4	0.012

Standard:

MP-1a	69.7

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

JJ/kk
XLS/02
CC: Mike Glover

Eco Tech LABORATORY LTD.

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CERTIFICATE OF ASSAY AK 2002-329

CUSAC GOLD MINES LTD.
911-470 Granville Street
Vancouver, BC
V6C 1B6

25-Sep-02

ATTENTION: Guilford Brett

No. of samples received: 6
Sample type: Core
Project #: Table Mntn
Shipment #: None given
Samples submitted by: M. Glover

		Metallic Assay			
ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)
1	45796	0.72	0.021	0.2	0.01
2	45797	0.55	0.016	0.4	0.01
3	45798	1.25	0.036	1.2	0.04
4	45799	10.13	0.295	2.2	0.06
5	45800	1.22	0.036	0.6	0.02
6	45801	15.86	0.463	6.1	0.18
QC DATA:					
Repeat:					
1	45796			0.2	0.01
Standard:					
Std-M		1.82	0.053		

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CERTIFICATE OF ASSAY AK 2002-341

CUSAC GOLD MINES LTD.
911-470 Granville Street
Vancouver, BC
V6C 1B6

2-Oct-02

ATTENTION: Guilford Brett

No. of samples received: 2
Sample type: Core
Project #: Table Mntn
Shipment #: None given
Samples submitted by: M. Glover

		Metallic Assay			
ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)
1	45802	1.10	0.032	<0.2	<0.01
2	45803	2.13	0.062	1.8	0.05

QC DATA:

Repeat:					
R1	45802	-	-	<0.2	<0.01
Standard:					
Mpla		-	-	1.4	0.04

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JJ/kk
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CERTIFICATE OF ASSAY AK 2002-374

CUSAC GOLD MINES LTD.
911-470 Granville Street
Vancouver, BC
V6C 1B6

11-Oct-02

ATTENTION: Guilford Brett

No. of samples received: 3
Sample type: Core
Project #: Table Mountain
Shipment #: None given
Samples submitted by: M. Glover

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)
1	45804	0.04	0.001	<0.1	<0.01
2	45805	0.41	0.012	1.20	0.04
3	45806	0.11	0.003	0.60	0.02

QC DATA:

Resplit:

R1	<0.1	<0.01

Standard:

Mpla	69.8	2.04

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email: ecotech@direct.ca

CERTIFICATE OF ASSAY AK 2002-425

CUSAC GOLD MINES LTD.
911-470 Granville Street
Vancouver, BC
V6C 1B6

21-Oct-02

ATTENTION: Guilford Brett

No. of samples received: 4
Sample type: Rock
Project #: None given
Shipment #: None given

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)
1	45807	0.07	0.002	0.5	0.02
2	45808	0.09	0.003	0.5	0.02
3	45809	0.74	0.022	0.4	0.01
4	45810	1.50	0.044	1.2	0.04
QC DATA:					
Resplit:					
1	45807	0.03	0.001	0.5	0.02

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Jutta Jealouse
B.C. Certified Assayer

JJ/kk
XLS/02

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email: ecotech@direct.ca

CERTIFICATE OF ASSAY AK 2002-453

CUSAC GOLD MINES LTD.
911-470 Granville Street
Vancouver, BC
V6C 1B6

29-Nov-02

ATTENTION: Guilford Brett
No. of samples received: 2
Sample type: Core
Project #: Table Mountain
Shipment #: None Given
Samples Submitted by: Mike Glover

		Metallic Assay			
		Au	**Au**	**Ag**	**Ag**
ET #.	**Tag #**	**(g/t)**	**(oz/t)**	**(g/t)**	**(oz/t)**
1	45813	0.43	0.013	<0.1	<0.01
2	45814	0.17	0.005	<0.1	<0.01

QC DATA:

Repeat:

1	45813	-	-	<0.1	<0.01

JJ/kk
XLS/02

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