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WATSON LAKE, YT.
GOVERNMENT OF YUKON

2004-2005 ASSESSMENT REPORT ON THE GOAL CLAIMS, YUKON TERRITORY, CANADA

Tsa da Glisza (formerly Regal Ridge) Project – GOAL and RS Claim Groups

Claim Group	Claim Number From	Claim Number To	Record Number From	Record Number To
Goal	204		YB70474	
Goal	213	230	YB76789	YB76806
Goal	233	250	YB76809	YB76826
Goal	252	270	YB76828	YB76846
Goal	283	303	YB77164	YB77184
Goal	304	319	YB76860	YB76875

Mining Division: Watson Lake Mining District, Yukon Territory

NTS: 105G/7

Lat./Long.: *Latitude 61°20°; Longitude 130°32°W*

Submitted by
J. Gregory Davison, M.Sc., P. Geo.,
Project Manager, Tsa da Glisza

TRUE NORTH GEMS INC.
500-602 WEST HASTINGS STREET
VANCOUVER, BC V6B 1P2

Costs associated with this report have been approved in the amount of $ 37,200.00 for assessment credit under Certificate of Work No. QL25784

Mining Recorder
Watson Lake Mining District

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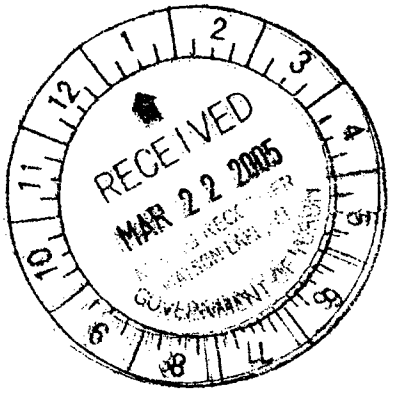

March 16, 2005

Watson Lake Mining Recorder
Box 269
Watson Lake, YT Y0A 1C0

094540

Dear Patti McLeod:

As discussed by telephone with your associates, please find below a summary of the expenditures with the general cost centres, and find attached the application for certificate of work and claim renewal groupings and expenditures for the 2004 season for the Tsa da Glisza emerald exploration program; the assessment for the claims has been completed using only the drilling charges as the necessary amounts are far more than required for the full renewal period. The seasonal report will of course cover the entire scope of the exploration tasks. A cheque for the claim renewal and grouping fees is enroute under separate cover from the Vancouver office.

Project Management	$ 121,775
Camp Operations	510,615
Exploration Geology and Plant Operations	579,025
Geochemical Analysis	45,895
Diamond Drilling	322,100
Air Transportation	266,510
Total	$ 1,845,920

The hard copies will be enroute via Express Post later today from my Trail office location.

Please contact me if there are any questions.

Sincerely,

Greg Davison
Project Manager Tsa da Glisza
250-368-1600

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SUMMARY

The Tsa da Glisza property is located in the southeastern Yukon at latitude 61°20' N and longitude 130° 32' W on NTS map sheets 105G/7; UTM 6785781 N, 429059 E, NAD 83, Zone 9 (Figure 1) and is composed of 93 contiguous, unpatented claims, and the RS property is composed of 12 contiguous, unpatented claims (located immediately adjacent to the Goal claims) registered with the Watson Lake Mining Recorder in the name of True North Gems Inc. The Properties cover an area of approximately 21.22 square kilometres.

The Tsa da Glisza emerald showing was discovered on 24 August 1998 by William A. Wengzynowski, a geologist for Expatriate Resources Ltd. In 2000, True North Gems Inc. began work on the Property under an option agreement with Expatriate, which eventually became a purchase agreement in 2002. Exploration efforts have been advanced by True North Gems, over the period of 2000-2003; the results of which are summarized under Exploration History.

The 2004 exploration program was designed to complete the tasks listed below:

1) surface trenching of the high-grade emerald shoot (10 to 100 gram per tonne gem plus near-gem) discovered along the Southwest vein; 2) surface trenching of rock and soil geochemical anomalies in Be-Cu-W-Sn-F; 3) diamond core drilling a picket-line grid for 1,500 metres along the Summit Zone of Tsa da Glisza; 4) wash plant upgrades and modifications to achieve 50 tpd operating efficiency; and, 5) processing emerald mineralization in stockpiles remaining from the 2003 program.

The 2004 diamond drilling program has explored the subsurface potential of the Summit Zone on Regal Ridge and also completed a Phase 1 program of the Shadow Zone on Howdy Ridge for emerald mineralization. The results have confirmed the continuity of Summit Zone emerald mineralization to depth from veins identified at surface, identified new areas of potential emerald mineralization and returned eight intersections with visible emerald in drill core at the Tsa da Glizsa (formerly Regal Ridge), Yukon property.

The 2004 drill program consisted of 54 holes totalling 3,503 metres with 46 holes and 3,084 metres completed on the Summit Zone. Analysis of 2002-2004 Summit Zone drill core has identified 219 intervals with the geological potential to host emerald mineralization including the eight intersections shown to

contain emeralds in drill core. The recovery of emerald in drill core itself is considered a rare event and their presence will contribute vital information relating to the continuity of emerald mineralization.

Geochemistry continued to identify correlation of emerald mineralization with elevated levels of a greisen-type suite of elements including Be, Sn, W, Bi, Cu and a suite of other minor to trace base metal elements. The geochemical discrimination diagrams indicate the presence of stacked anomalies though the spatial distribution associated with known emerald mineralization suggests that property scale zoning influences the degree of correlation between individual and multiple elements.

The 2004 drill intersections of quartz-tourmaline-scheelite veining and intense hydrothermal alteration within and adjacent to the known mineralized areas of the Summit Zone and the successful prospecting of the Shadow Zone, have provided priority targets for developing tonnage potential and will be addressed during 2005 trenching and mini-bulk sampling.

The 2004 trenching and sampling program comprised fourteen trenches, totalling 680 metres in length, and ten mini-bulk samples which were completed over geochemical anomalies, downstrike projections and extensions of known emerald-bearing structures. Detailed geological mapping evaluated the targets for emerald mineralization and outlined areas for mini-bulk sampling.

Mini-bulk samples totalling approximately 1,582 tonnes were collected from the Mattscar, Southwest, Far West, and #4 veins of the Summit Zone during the 2004 program. Processing was completed on 582.3 tonnes from the Far West, Mattscar and Southwest veins. The remainder of the trench samples were stockpiled for processing in 2005.

The mini-bulk sampling programs realized significant improvements in tonnage throughput and emerald recovery from the re-designed process plant. Major design modifications to the pilot processing plant were completed and full plant operations started on July 5th. The emerald concentrates were screened, sorted and processed on site.

The 2,533 tonne mini-bulk sample program to date, including samples from 2003 and 2004, has returned a total of 38.8 kilograms of emerald rough. The overall emerald grade, based on the mini-bulk samples processed at Tsa da

Glizsa, is equivalent to operating emerald mines active in Brazil and southern Africa.

The 2005 exploration will focus on the numerous targets generated by the 2004 drilling and trenching programs, and plans to evaluate lateral and vertical projections from drill hole intercepts particularly those with visible emerald and those displaying thick zones of alteration consistent with the presence of emerald in surface samples. The trenching program will be expanded using additional equipment and personnel; all operating emerald mines recover significant proportions of the weight and values of emeralds at the mining face. Detailed geological and structural mapping of the Regal Ridge proper, prospecting of several areas of the Property including the airstrip ridge, east toward the Kel occurrence, south and southeast of the Howdy Ridge discovery is planned. Infill soil geochemistry will cover areas around the airstrip ridge, West vein, and Caribou Bowl. Re-logging of the 2002-2004 drill core will focus on alteration and structural features. Additional changes to the process plant and increased production rates using a 24/7 schedule over the field season is expected to permit sampling of up to 10,000 tonnes of mini-bulk samples from targets on the Summit Zone, West vein, Shadow Zone and other targets undergoing evaluation before and during the field season.

The 2005 field program was initiated on February 12th for winter mobilization of supplies and equipment, and the summer exploration program was started on May 17th.

Introduction and Terms of Reference

The author was requested by True North Gems Inc., in his role as Tsa da Glisza project manager in 2004, to prepare the seasonal assessment report on the Tsa da Glisza property. This report will focus primarily on the assessable component of the exploration work - diamond drilling - conducted during 2004 and will summarize the results of the concurrent exploration activities for emerald at Tsa da Glisza.

The report utilizes the standard vocabulary of economic geology and commercial gemmology. We practice the industry convention of reporting all rough in grams, and all polished in carats. Rough is sorted; polished is graded. Either can be valued. Manufacture refers to the working of rough into polished; fabrication refers to the mounting of polished into jewellery. Emerald grades are reported in grams per tonne. The emerald population is split into three quality classes: gem (transparent); near-gem (translucent); and non-gem (opaque).

All dollar figures provided herein for work programs and claim management are in Canadian$ currency.

The following primary objectives were set for the 2004 field season:

1) surface trenching of the high-grade emerald shoot (10 to 100 gram per tonne gem plus near-gem) discovered along the Southwest vein; 2) surface trenching of rock and soil geochemical anomalies in Be-Cu-W-Sn-F; 3) diamond core drilling a picket-line grid for 1,500 metres along the Summit of Tsa da Glisza; 4) wash-plant upgrades and modifications to achieve 50 tpd operating efficiency; and 5) processing emerald mineralization in stockpiles remaining from the 2003 program. Additional underground exploration would be results driven.

DISCLAIMER

The author has reviewed the information available and have selected for inclusion the requisite assessable information on the Property. The author has relied principally upon data, interpretation, and information supplied by the Tsa da Glisza (formerly Regal Ridge) project files of Expatriate Resources Ltd., Archer Cathro and Associates, and True North Gems Inc.

The author has visited the Property for a period of more than three months with True North Gems acting on a contract basis as the 2004 Tsa da Glisza project manager and since May 2005 as the Tsa da Glisza project manager and True North Gems' Vice-President Exploration.

PROPERTY LOCATION AND DESCRIPTION

LOCATION

The Goal property is located in the southeastern Yukon at latitude 61°20' N and longitude 130° 32' W on NTS map sheets 105G/7; UTM 6785781 N, 429059 E, NAD 83, Zone 9 (Figure 1). Local elevations range from 1200 to 1800 metres.

The area covered in this report lies 42 kilometres south of the Robert Campbell Highway and 230 kilometres northeast of Whitehorse in the Pelly Mountains, southeastern Yukon. There is a private, all weather access road from the Robert Campbell Highway at Finlayson Lake south to the Kudz Ze Kayah base and precious metal deposit.

CLAIM DESCRIPTION

The Goal property is composed of 93 contiguous, unpatented claims, and the RS property is composed of 12 contiguous, unpatented claims (located immediately adjacent to the Goal claims), registered with the Watson Lake Mining Recorder in the name of True North Gems Inc. Together, the claims cover an area of approximately 21.22 square kilometres. The claim registration data is listed in Table 1. In its present state, the property is defined by claim post locations, but has not been the subject of a legal boundary survey.

AGREEMENTS, ROYALTIES AND ENCUMBRANCES

True North Gems entered into an option agreement with Expatriate Resources Ltd. (**"Expatriate"**) on June 12, 2001, whereby Expatriate granted True North an option to earn a 50% interest in Tsa da Glisza. This agreement was replaced on March 7, 2002 with an acquisition agreement where Expatriate agreed to sell 100% interest in Tsa da Glisza to True North Gems. Expatriate retains the rights to all precious and base metals that may be found on the Property.

PERMITS

True North's 2003 exploration program was completed under the provisions of a Class III Mining Land Use Permit (LQ00076), pursuant to the Yukon Quartz Mining Act, approved by the Mining Land Use Division of the Department of Indian Affairs and Northern Development, with an effective date of August 13, 2001 and an expiration date of August 12, 2006. The permit is subject to certain conditions described in the approval document. There are no known environmental liabilities relating to the Tsa da Glisza project.

PROPERTY DESCRIPTION AND MINERAL TITLES

The Tsa da Glisza property claim registration data are listed in Table 1.

TABLE 1. TSA DA GLISZA CLAIM GROUP

Claim Group	Claim Number from	Claim Number to	Number of Claims	Record Number from	Record Number to	Expiry Date	Mining District
Goal	204		1	YB70474		25-March-17	Watson L.
Goal	213	230	18	YB76789	YB76806	25-March-17	Watson L.
Goal	233	250	18	YB76809	YB76826	25-March-17	Watson L.
Goal	252	270	19	YB76828	YB76846	25-March-17	Watson L.
Goal	283	303	21	YB77164	YB77184	25-March-17	Watson L.
Goal	304	319	16	YB76860	YB76875	25-March-17	Watson L.
TOTAL			**93**				

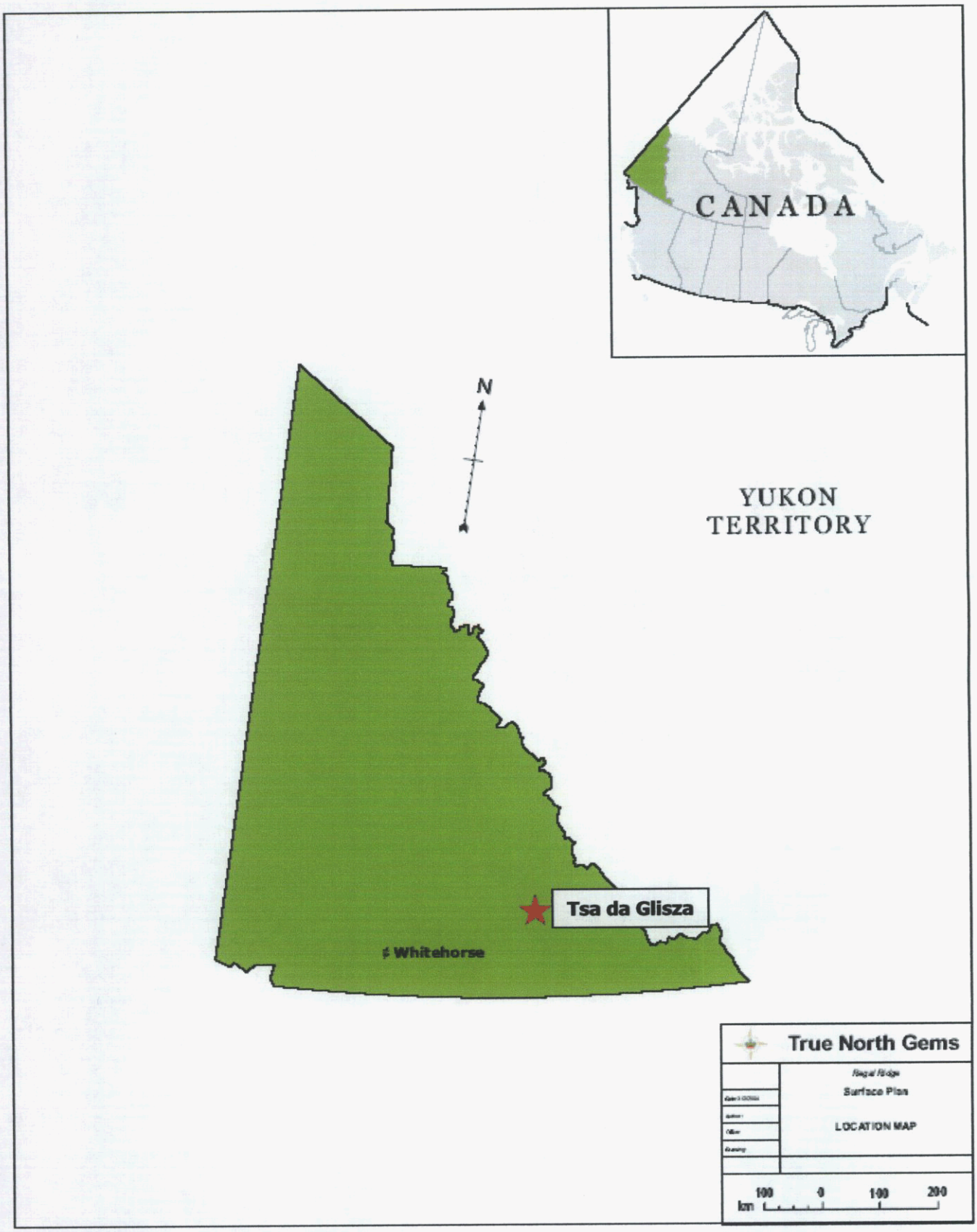

Figure 1. Tsa da Glisza Project Location Map

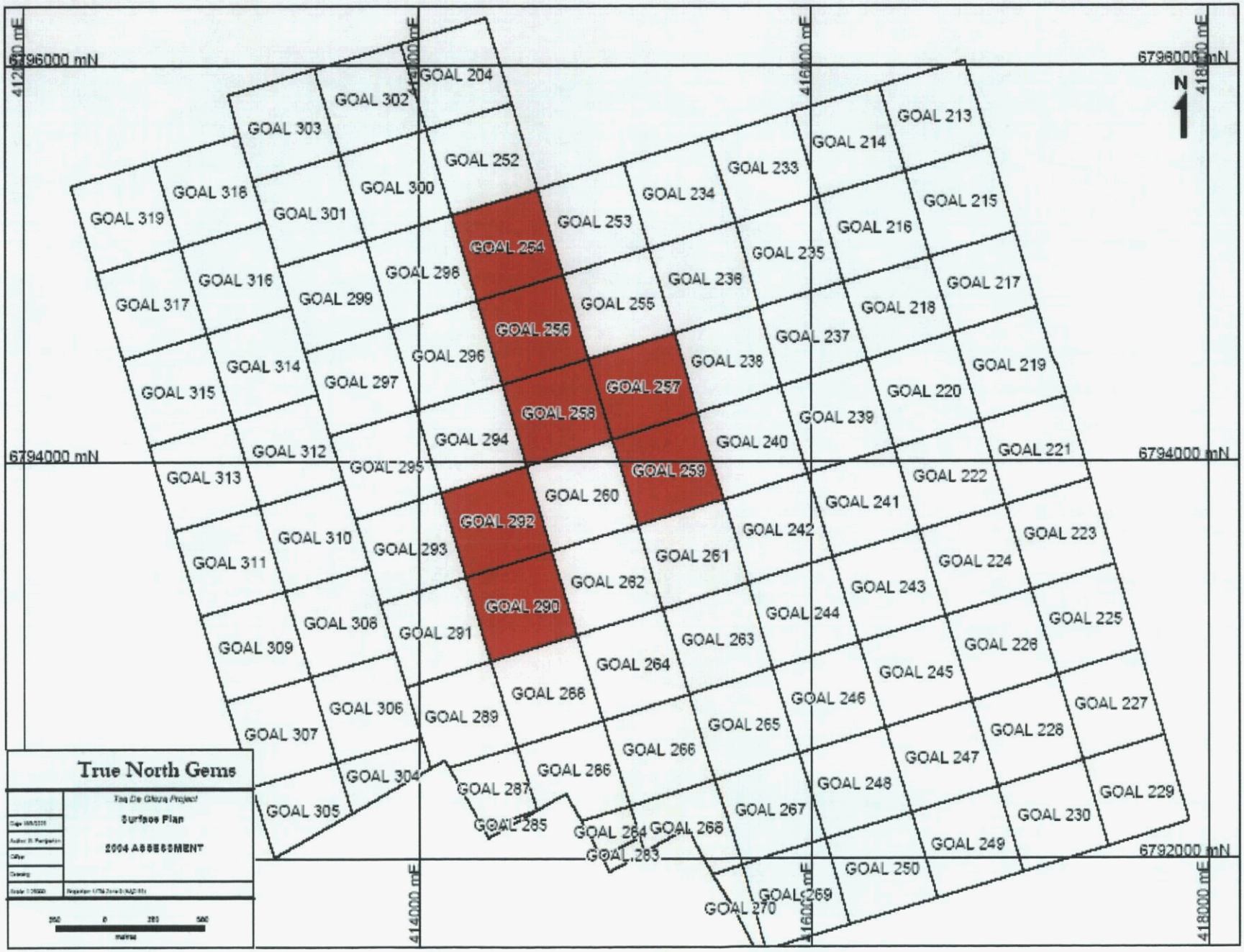

Figure 2. GOAL claims indicating areas of assessable work

ACCESS, LOCAL RESOURCES & INFRASTRUCTURE

The Property is accessible by fixed wing to the 750metre landing strip on the NW portion of the Property and by helicopter to the base camp landing pad. The regular supply route to the Tsa da Glisza property is from Whitehorse, Ross River and the local Finlayson Lake airstrip via helicopter to the camp, or via fixed wing aircraft (Otter, Cessna 206) to the Tsa da Glisza airstrip. At the present time, no temporary or permanent road access has been established. Helicopter access was used exclusively until the landing strip was completed in 2003 and on a seasonal basis until snow has been cleared and airstrip operations are achieved; in 2004, the airstrip was opened to fixed wing traffic on June 5th. The spring 2005 program also will utilize fixed wing support from the nearby Wolverine Lake airstrip with helicopter support from equipment based in both Ross River and McEvoy Lake.

Winter access is achieved via CAT train from the Kudz Ze Kayah camp through the North River valley SSW to the Tsa da Glisza camp. As part of the 2003 and 2005 exploration programs, mechanized equipment and other supplies were expedited to the property overland using the winter trail. The trail runs along a 24 kilometre access road connecting to Highway 4 that was constructed and is controlled by Teck Cominco, for the Kudz Ze Kayah project, and from there, overland to the Tsa da Glisza camp. The overland route was established in 2001, when a wide-track Caterpillar 225 excavator was brought in overland during the summer. The winter road was not used in preparation for the 2004 program.

The closest centre of population is the town Ross River 120 kilometres to the northwest, the town of Watson Lake 168 kilometres to the southeast, and the mining town of Faro is 184 kilometres to the northwest. The region is limited with respect to transportation infrastructure. In addition to the airstrip at Finlayson Lake, the only other artery for transportation is Highway #4 (Campbell Highway) which connects the Town of Watson Lake with the town of Carmacks.

No established rail or water transport routes are present in the vicinity of the Tsa da Glisza project.

The 30-man camp at Tsa da Glisza constructed by True North between 2003 and 2004 has been supplemented by a dedicated geological office, drill core

logging and storage facility, secure stone room and several ancillary buildings including a recreation area (see Illustration 1). Plans for the 2005 programs include an upgrade to handle a staff of 36-44 persons.

The Company has completed approximately eight kilometres of road and cat trails on the Property (see Illustration 2) in order to access the summit of Regal Ridge and Howdy Ridge; the latter trail was constructed during 2004 to access trenching and drilling operations in the recently discovered Shadow Zone.

CLIMATE & PHYSIOGRAPHY

The Tsa da Glisza Project occurs in the rugged terrain of the Pelly Mountains approximately 7 kilometres northwest of Fyre Lake. It lies entirely within the Liard River Watershed, which drains ultimately to the Arctic Ocean. Elevations on the property range from 1200 metres in the river valley bottoms to 1805 metres on ridge tops.

Regal Ridge itself is a west to northwest-trending topographic summit line characterized by a steep northeast-facing slope showing abundant talus and outcrop, and a more gently inclined southwestern face showing extensive soil cover with far less outcrop; extensive felsenmeer characterizes the surface terrain on the ridges and plateau areas. The Property topography ranges from 1350-1805 metres in elevation.

Vegetation consists of dense buckbrush in the flat, broad river valley bottoms, grading upwards into dense growths of stunted balsam, black spruce and occasional pine on the lower slopes, and eventually into dwarf willow, birch, and alpine grasses at elevations above timberline at 1500-1550 metres. The ridge tops only support lichen and very sparse alpine grasses principally on the local thin soil cover; the steep eastern slope of Regal Ridge is generally devoid of vegetation except scattered lichens and seasonal flowering plants. Based on the initial site studies, Regal Ridge and its environs do not represent critical habitat for any known threatened or endangered species.

The principal climate of the Tsa da Glisza area is classified as sub-arctic; the timberline exposures above 1500 metres are characterized generally by sub-arctic to arctic weather, with less than two to three months of snow-free conditions.

EXPLORATION HISTORY

1998

Geologist William A. Wengzynowski with Expatriate Resources Ltd. ("Expatriate") discovered the emerald occurrence at Regal Ridge at the Goal property on August 24, 1998. Expatriate was exploring for a tungsten anomaly first reported from the area by Chevron Minerals Ltd. in 1979. On their first landing, approximately one kilogram of emerald and green-beryl was collected from soil, float and outcrop during a two hour examination within a 30 x 100 metre area.

Follow-up exploration on the discovery that same year demonstrated that the emerald occurrence had significant size potential. Prospecting and contour soil sampling identified emerald in outcrop and float over an area measuring 950 x 350 metres. Sampling and processing of subcrop and talus material produced numerous small, gem quality emeralds with excellent colour and clarity. The emeralds identified to that point had all been recovered from the surface, or from shallow hand-dug pits, where chemical and mechanical weathering in the arctic environment may have contributed to fracturing and oxidation. Study of the emerald samples recovered from outcrop confirmed that the gemstones represented fragments of much larger crystals, up to 1 centimetre in diameter and 4 centimetres in length.

In the initial round of exploration, three hand-dug trenches encountered chloritic schist forming the wall rock, with quartz-tourmaline veins cutting thin muscovite-tourmaline schist. In all, three separate mineralized horizons of altered schist with abundant veining were detected in 1998.

1999

Emerald exploration became the primary focus of field activities in 1999. Expatriate established a 1200 x 600 metre control grid with a square spacing at 50 metre centres. Soil and talus fines were sampled on the grid, and were examined in daylight for emerald and under shortwave ultraviolet light for scheelite fluorescence. All samples that produced emerald fragments also contained scheelite grains. The fines were analysed for 32 elements by the Induced Coupled Plasma (ICP) technique. It was found that copper, beryllium

and tungsten values showed the best correlation with macroscopic emerald in the soil samples. The geochemical anomaly overprinting the emerald occurrence measures 700 x 400 metres. Follow-up of prospective areas allowed Expatriate to map the dimensions and limits of at least six emerald-rich dispersion trains in the regolith. In two cases, the dispersion trains were traced back to source outcrops containing emerald mineralization. The emerald-bearing zone was found to be coincident with a soil geochemical anomaly in Be-Cu-W.

In 1999, talus fines and deeply-weathered bedrock were collected and processed from six separate locations in the emerald-rich dispersion trains identified through soil sampling. In all, seven cubic metres of material was washed and sieved through a set of screens. The field split (concentrate) was hand-picked from a sorting table. Some 5,000 grams of combined emerald and green beryl was recovered. Of this total, 3,129.3 grams was cleaned, and classified as "gem" (transparent); "near-gem" or cabochon-grade (translucent); and, "non-gem" (opaque). The final tally included: 17.8 grams (0.5%) of gem; and 93.9 grams (3.0%) of near-gem material.

2000

No field exploration was reported for the 2000 season.

2001

In 2001, True North cut seven trenches with an aggregate length of 220 metres at Regal Ridge. Collectively, about 1,500 tonnes of material was excavated. Unfortunately, only one of the trenches reached full target depth, and was able to be sampled, prior to the cessation of operations due to inclement weather on September 10, 2001. The best test of mineralization was Trench TR-01-03, in what Expatriate had previously labelled Area 4. At this location, 286 tonnes of material was excavated. The material was processed on site by hand screening and sorting, which resulted in the recovery of 139.31 grams of emerald. Of this, 16.18 grams (11.61%) was transparent gem, and 24.49 grams (17.58%) was translucent near-gem, with the balance present as opaque non-gem. The combined gem and near-gem grade for Trench TR-01-03 at Area 4 is 0.142

grams per tonne. The total emerald content comprising all gem, near-gem, and non-gem classes was 0.487 grams per tonne. From all sites, including material recovered from partial tests, and from hand trenching to confirm Expatriate's discovery sites, True North recovered a total of 688.21 grams emerald. Of this, 25.26 grams (3.67%) was gem; 49.31 grams (7.16%) was near-gem; and, 613.64 grams (89.16%) was non-gem. These weight ratios for gem, near-gem, and non-gem are generally consistent with other schist-hosted, metamorphic-hydrothermal emerald deposits (Webster and Read, 1994; Delaney, 1996, Simandl, and others, 2001).

27 soil samples were collected along a grid overlying Regal Ridge, and were analyzed by ALS Chemex Labs Ltd. (ALS Chemex) for 32 elements using an Induced Coupled Plasma technique (ICP). Strong correlations were noticed between Cu, Be, and W.

2002

In 2002, an additional three emerald mineralized veins were discovered, bringing the total to 10. Trenching of seven of these veins (SW, Area 51 W, Area 51 E, BG, BG-Ext, Area 14, and Area 4) produced 120 tonnes of excavated material, of which 65 kg of emerald field splits was sent to Vancouver for further processing. Total emerald recovery from these samples was 4,095.7 grams. Of this, 135.9 grams (3.3%) was gem; 684.4 grams (16.7%) was near-gem; and, 3,275.4 grams (80.0%) was non-gem. The most promising results came from the SW Zone, where gem recovery was 121.42 grams and near-gem recovery was 587.33 grams, leading to 19.09 grams/tonne and 92.35 grams/tonne of gem and near-gem values, respectively.

Diamond drilling consisted of five drill holes covering a depth of 419.4 metres. Four of the drill holes were relatively short (ranging from ~30 metres to ~60 metres), and targeted Areas 4 and 14. Their purpose was to evaluate continuity between the two vein sets, and was successful. The fifth hole, approximately 200 metres in depth, was designed to explore for additional blind mineralization.

A total of 464 soil samples were collected and processed using a near total digest/mass spectrographic technique to analyze for 47 elements. Results from the program illuminated additional Be-W-Cu-Sn-F geochemical highs on the

Property, particularly along the ridge west of Regal Ridge, where the proposed airstrip is located.

At the end of the 2002 field program, emerald float was found in the West vein.

Exploration since 2002 is discussed under the Exploration Results section.

GEOLOGICAL SETTING

REGIONAL GEOLOGY

The Regal Ridge emerald occurrence lies in a block of amphibolite-grade metamorphic rocks included within the Yukon-Tanana terrane. Murphy (1997) compiled the regional geology underlying the area covered in this report. The main lithotypes present are Paleozoic metasedimentary and metavolcanic rocks of Murphy's Layered Metamorphic Rocks (LMR), along with a variety of felsic and ultramafic intrusive rocks. The pertinent units of the LMR include members of units 1, 2, and 3, with the emeralds occurring in portions of unit 2.

The oldest rocks recognized in the area belong to an upper quartzose metaclastic unit (1qsu) of probable Pre-Mississippian age. This unit appears to grade upwards into a mainly chloritic schist package with minor intercalations of muscovite-tourmaline schist, quartzite and phyllite (2m). The schist, in turn, is overlain by a felsic to mafic metavolcanic sequence with minor intercalations of quartzite and argillaceous marble (3). The entire package is intruded by several igneous rocks including: Mississippian-age metagabbros and metapyroxenite sills (2mum); Cretaceous Be-bearing granitic rocks (Kg); and Tertiary feldspar porphyry dykes (Td).

Unit 2 of the LMR locally hosts emerald and beryl mineralization where quartz-tourmaline-scheelite veins cut or occupy muscovite and tourmaline-rich schist layers. These volcanic rock protoliths include boninite, low Ti tholeiite, normal mid-ocean ridge basalt (MORB), and transitional Light Rare Earth Element (LREE)-enriched tholeiite. In the area of the showing, boninites predominate and overlie a thick wedge of variably serpentinized mafic and ultramafic meta-plutonic rocks interpreted to be a comagmatic sill (Murphy, 1998a, b; Murphy and Piercey, 2001).

The Property falls into the tectonic setting of the Yukon-Tanana terrane, the main body of which lies within the Tintina and Denali Fault Zones. Both are

northwesterly-trending, right lateral faults of large displacement. The Finlayson Lake segment is a lozenge-shaped body on the northeast side of the Tintina Fault Zone, interpreted to be displaced from the main body of the Yukon-Tanana terrane by 450 kilometres of right lateral movement (Hunt, 1997).

The LMR has been subjected to two or more phases of metamorphism and deformation, bringing the rocks to greenschist and lower amphibolite facies. A flat-lying foliation subparallel to the compositional layering is the dominant structural fabric. It is preserved locally as a crenulation cleavage developed parallel to the axial planes of recumbent isoclinal folds, which are manifest in numerous locations in the chlorite schist, and as quartz segregations and siliceous horizons.

The regional geology map presented herein references the updated geological legend developed by Murphy (2001). The 2001 geological classification of the stratigraphy of the Regal Ridge area combines the former "2m" and "2mum" units into a single, equivalent unit labelled as "Df". Detailed lithological descriptions are available in Murphy (1997) and Murphy and Colpron (2001).

The foliation generally strikes west to northwest and dips gently to the north and northeast. The folds are locally north verging and the axes plunge gently to the west between 5 and 10 degrees.

A regional scale fault occurs on the eastern edge of the project area and juxtaposes the ultramafic unit, 2mum, against the LMR. Smaller scale, late stage faults, commonly associated with quartz ± tourmaline ± carbonate veins are widespread. They commonly exhibit one of two principal orientations; one set is steeply dipping and strikes northwesterly or northeasterly, whereas the second set strikes northeast and is gently northwest dipping.

PROPERTY GEOLOGY

The Property scale geology was mapped between 2001 and 2005 by several company geologists (see Rohtert and Pemberton 2003, Davison, Rohtert and Pemberton, 2004, Neufeld, 2004), and from a structural perspective by Israel (2003).

The Property is underlain by the Fire Lake succession which in this area consists of three main rock types; a package of metavolcanic and

metasedimentary schists and phyllites, variably deformed leucogabbros and a thick package of ultramafics (unit DMF of Murphy and Piercey, 1999). These units are intruded by a 112 Ma two mica granite and a continuum of aplitic and pegmatitic dykes, and quartz veins.

In describing the local geology of the "Crown Showing", currently known as the Tsa da Glisza emerald occurrence, Groat et al. (1999) wrote: "The emeralds occur where quartz veins cut mica-rich layers in a shallowly dipping mica-chlorite schist of the Upper Devonian Fire Lake mafic meta-volcanic unit (unit 2 of Murphy, 1997 and Murphy & Piercey, 1998, unit DMF of Murphy & Piercey, 1999).

In the area of the Crown showing, the schist is well foliated and dips gently to the north. The quartz veins associated with the emerald mineralization are slightly discordant to the bedding planes. At least eight such veins have been found on the north side of the ridge. In most cases the quartz veins are surrounded by a zone of yellow sulphate mineralization and a much more extensive, overlapping mass of fine tourmaline crystals which locally contains minor amounts of scheelite. The emeralds occur in both the sulphate and tourmaline zones and (rarely) in the quartz veins. Where the quartz veins cut mica-poor chlorite schist there are no sulphate or tourmaline zones and no emeralds (although there may be tourmaline in the quartz veins), implying that mica-poor strata are unreactive with respect to the hydrothermal system. All quartz veins seem contemporaneous, and the presence or absence of emeralds is influenced strongly by the geochemistry of the host rock.

The quartz veins seem to be genetically linked to one of the largest bodies of mid-Cretaceous granite in the area, which is exposed east of, and within 600 metres of the emerald mineralization. The western contact of the granite is observed to be gently west-dipping, underlying the Crown showing at a relatively shallow depth. The orientation of the western granite contact and the contact between the Fire Lake unit and the co-magmatic mafic and ultramafic sill are such that the granite likely intrudes through the ultramafic sill at depth."

Work done in the area prior to 2000 indicated that only the shallow-dipping set had associated quartz-tourmaline veins that could produce beryl mineralization. Subsequent exploration also identified emerald mineralization

in the steeply dipping set. vein forms range from; planar and undeformed, tight to isoclinally folded and en-echelon pods. Folded veins are often rootless and isoclinal with fold axes plunging shallowly towards the northwest. Many of the vein sets appear to be laterally discontinuous with the most highly deformed apparently boudinaged in two directions (Israel, 2003). Transposition of the metavolcanic unit is indicated by centimetre to metre scale isoclinal folds and confirmed by the presence of relict bedding and preserved volcanic textures that exhibit both an upright and overturned nature to the unit (Israel, 2003). Additional vein morphology, composition and spatial information is provided in the Mineralization section.

The Property geology, modified after Murphy (2001), Neufeld et al. (2003) and Neufeld (2004), is provided in Appendix 1 - map pocket. The 2004 geological mapping by Neufeld (2005) is described under Exploration Results – Geological Mapping.

Deposit Types

Under the classification system for emerald deposits proposed by Sinkankas (1981), the Regal Ridge showing is a metamorphic-hydrothermal type. In this class, emeralds occur primarily as disseminated replacements in schistose wall rock adjacent to granitic pegmatites and quartz veins. To a lesser extent, they are also found as a primary vein mineral, and rarely as late open-space fillings in greisens locally developed in pegmatite. The two essential geological components are an Cr-rich magnesian metavolcanic and/or an ultramafic protolith at or above upper greenschist facies metamorphism, and a hydrous, beryllium-rich intrusive phase.

The Crown showing is somewhat similar to the Kafubu emerald deposit in the Ndola district of Zambia described by Kazmi and Snee (1989) and Siefert et al. (2004) in that gemstones are found within micaceous schist horizons peripheral to concordant tourmaline veins. It is different from Kafubu in that the mica species at Regal Ridge is muscovite rather than biotite or phlogopite although both biotite and phlogopite are present in minor to trace quantities. Sliwa and Nqualuwe (1984) report that the tourmaline veined schists of the Ndola district produce up to 9 million carats of rough annually, with about 20 percent classified as gem quality.

In the broad sense of Walton's (1996) genetic classification of emerald deposits, Regal Ridge is a Type 2a, specifically emeralds associated with granitic pegmatitic rocks interacting with ultramafic rocks in a geologically-young suture zone. Roughly half the volume and a quarter of the value of annual global emerald production is derived from this class of deposit.

EMERALD MINERALIZATION

Groat et al. (1999) provided the best detailed "historical" description of the emerald mineralization at the Crown showing (Tsa da Glisza – Summit Zone) as follows:

"The emeralds range in size from fractions of a mm to 4 cm in length. Some of the smaller crystals (to approximately one-quarter carat), and sections of larger crystals, are gem quality with excellent clarity and colour. Many of the larger crystals show a regular pattern of holes that likely represent growth features. Others appear to have grown across the foliation of the schist, as shown by layers of micaceous inclusions; these create parting planes and increase susceptibility to mechanical weathering. A total of 24 emerald crystals were examined from five of the source regions. One additional crystal was obtained from a quartz vein on the south side of the ridge, at the westernmost extent of the showing. All samples were green in hand specimen and exhibited homogeneous colour distribution when cut and polished for microprobe analysis. Preliminary investigation with a scanning electron microscope (using both back scattered electron and cathode luminescence imaging modes) showed no evidence of compositional zoning. Electron microprobe analysis of the 25 crystals shows an average Cr concentration of 3208 ppm (maximum 7816 ppm). The mean and maximum V concentrations are 171 and 333 ppm, respectively. Both Cr and V are chromophoric in emerald; however, the concentration of Cr and colour of the emeralds indicate the predominant importance of Cr. The Fe content is variable between relatively narrow limits (0.02 to 0.05 atoms per formula unit), particularly when compared to the Mg concentrations, which range between 0.08 and 0.18 apfu. Some of the emeralds contain significant concentrations of Sc (up to 499 ppm). Step-heating analyses of four samples from different source regions show consistent channel H_2O contents of approximately 2.00 wt.%.

Investigation of polished mounts with the scanning electron microscope revealed an abundance of fluid and solid inclusions; the latter include calcite, chalcopyrite, molybdenite, phlogopite, pyrite, quartz, scheelite, tourmaline, and zircon. The fluid inclusions were found to contain three phases at room temperature. The dominant phase is aqueous brine occupying approximately 80% of the volume of the inclusion. The other two phases are gaseous and liquid carbonic fluids, which occupy approximately four and 16% of the volume, respectively. Preliminary microthermometric measurements indicate these carbonic phases are dominated by CO_2 but contain minor amounts of dissolved methane with X-CH_4 in the gaseous phase ranging up to 0.15. The clathrate melting data indicate that these emeralds precipitated from a fluid with salinities of a few wt% NaCl equivalent (the lack of experimental data in the system H_2O-CO_2-NaCl-CH_4, precludes a more accurate salinity determination). Homogenisation of the carbonic phase (to the vapour) occurs at approximately 26°C. Based upon data from non-stretched inclusions, we suggest that the true homogenisation temperatures of the Crown emeralds are on the order of 260° to 340°C. These results are similar to those obtained from fluid inclusions in emeralds from schist-type deposits, which generally show precipitation from a H_2O-CO_2-NaCl-CH_4 fluid with salinity from 0 to 20 wt. % NaCl equivalent, and minimal formational temperatures and pressures on the order of 300°C and 1000 bars, respectively (Seal 1989, Moroz & Vapnik, 1999). Fluid inclusions in emeralds from hydrothermal deposits (such as those in Columbia) tend to indicate formation from more saline fluids (approximately 40 wt.% NaCl equivalent) at temperatures in excess of 325°C (Ottaway et al., 1994, Kozlowski et al., 1986).

Tourmaline is ubiquitous and common in the area of the Crown showing, it is present in the granite; in the quartz veins; as masses of fine crystals surrounding the quartz veins where they cut the mica schist, and associated with the emerald mineralization (dravite); and as larger, discrete crystals in the chlorite-mica schist (schorl). Tourmaline needles also occur as inclusions in many of the emeralds; electron microprobe analyses show compositions ranging from dravite to uvite, with elevated Cr concentrations (to 0.44Cr apfu). The presence of tourmaline may be a key to understanding why we do not see high Fe concentrations in the beryls (which would diminish the emerald green colour); under high B activity, tourmaline acts as a sink for Fe, MS and Mn.

The crumbly yellow sulfate-rich material associated with the quartz veins was sieved and the resulting powder was analyzed by X-ray diffraction. The resulting spectra show a mixture of jarosite, chlorite, vermiculite, and dickite. Gypsum is commonly seen forming thin layers on rocks in the talus below Regal Ridge. The source of the sulphate remains unclear. Sulphide minerals appear to be rare in these rocks, although minor amounts of pyrite and chalcopyrite (altering to malachite) have been found in the chlorite-mica schist close to the quartz veins. However, it is possible that there is a significant amount of syngenetic sulphide mineralization in the mafic schists, as pyrite and less commonly chalcopyrite occur disseminated throughout the unit regionally and are locally concentrated into mm- to cm-scale seams.

As noted previously scheelite crystals are locally found within the tourmaline zone around the quartz veins. The presence of scheelite rather than wolframite is probably related to the scavenging properties of tourmaline as regards Fe and Mn, and to the modestly calcic host rocks. Marble lenses occur locally in the host rocks, and pockets containing very pale beryl have been found encapsulated in secondary calcite. Geochemical surveys show a direct correlation between Be and W."

MINERALIZATION CONTROLS

The results of the 1999 field activities by Expatriate Resources Ltd. on Regal Ridge led to the conclusion that emerald mineralization occurs at the locus of intersection between altered muscovite tourmaline schist horizons, locally called "rusty schist", and a generally concordant set of quartz-tourmaline-scheelite veins. The veins and their host rocks were found to be nearly flat-lying. It could be mapped in the field, and later demonstrated in cross section based upon drilling results, that the generally flat-lying veins locally tended to steepen, deflect upwards and horse-tail into braid, proceeding towards the southeast. This was interpreted as a result of the veins occupying low-angle thrust faults generally concordant to schistosity and primary bedding, with compressional displacement directed towards the southeast. Displacement was concurrent with quartz veining and emerald crystal growth. At least four separate horizons were then recognized, and another four were inferred later on the basis of float and soil geochemistry. Emeralds are now confirmed in outcrop from 5 of the 8 sets. The highest emerald grades are seen in the

vicinity of massive tourmaline pods within intensely-altered biotite and chlorite schist wall rock. True North Gems' work has also demonstrated that emerald mineralization occurs within a cross-cutting network of closely-spaced, steeply-dipping shear zones which connect between the flat-lying vein sets. The mineralized horizons range from 0.5 to 9 metres in true thickness typically spaced about 5 to 15 metres apart. Overall, they average around 1 to 2 metres in thickness. Detailed mapping of the steeply-dipping cross-cutting mineralized shear zones in Area 4 indicates they average about 0.5 metres in thickness, and occur in an orthogonal set with northeast and northwest trends, at a regular spacing of 5 to 7 metres apart. True North anticipated that this geometric configuration, comprising multiple stacked mineralized horizons connected by a dense network of vertical elements, would conceivably lead to the production of sizeable ore shoots.

In 2001, quartz veins were observed to braid and anastamose, appear and reappear, within the "rusty schist". The "rust" in the "rusty schist" is iron oxide weathered from disseminated sulphides, chiefly identified as pyrite. Wengzynowski (2000) reported that even the barren schist with no visible emerald contains elevated levels of beryllium and tungsten, indicating that mineralizing fluids used the schist pervasively as a conduit. Wengzynowski offered the opinion that the high permeability and protolith chemistry of this unit made it very reactive with those mineralizing fluids. His tentative conclusion reinforces the potential for finding emerald anywhere within any of the "rusty schist" horizons at Regal Ridge.

The subsequent geological studies, including diamond drilling, indicate that the brown to rusty subunits of the Fire Lake succession occur over a vertical extent of more than 200 metres in elevation and extend to not less than 120 metres below the crest of the Summit Zone. The alteration exhibited a progression from chlorite schist to pale yellow green chlorite (change in chlorite composition indicated) to phlogopite and/or muscovite-bearing chlorite schist to Fe-stained muscovite-bearing, locally silicified, schist with minor to ubiquitous tourmaline and minor to trace scheelite. The thickness of alteration measured in drill core ranged from less than 5 cm to more than 20 metres and is suggestive of a hydrothermal alteration envelope which is locally overprinted near surface by a host of secondary minerals.

Emeralds identified at Howdy Ridge in 2004 occurred within massive quartz and tourmaline and generally little associated "glimmerite" lenses marking the periphery of the mineralized envelopes surrounding the multi-stage quartz-beryl-tourmaline veins. These emeralds were formed in a more massive textured subunit (less deformed) of the Fire Lake succession and it appears that the paucity of alteration to the wallrock has not limited the deposition of emeralds and green beryl locally to 10cm in length.

True North has noted that the emeralds of the Summit Zone, primarily in the surface exposures and shallow trenches, commonly tend to be compromised in gem quality and dimension as a result of: 1) tectonism concurrent with mineralization, often resulting in fractured or strained crystals; 2) chemical weathering, specifically the oxidation of inclusions; and, 3) mechanical weathering, specifically frost shattering along the basal cleavage plane. Additionally, the abundance and type of inclusions within the emeralds varies between areas of mineralization; the most porous emerald is related to the increased degree of K-mica metasomatism and the subsequent overprinting by physico-chemical weathering.

EXPLORATION RESULTS

2003

The areas trenched in follow-up to the rock and soil geochemical anomalies generated before and during 2003 included: Mattscar; West; Far West; Area 9 and Area 10 on the Discovery vein Area 51 on the Gaboury vein and, the Airport Aplite. Other surface excavations on the West zone showed that emerald mineralization continues both further laterally to the west and to depth. The Far West zone extends the size of the area known to contain emerald-bearing mineralized quartz-tourmaline veins to a length of 1,200 metres, and with the Airport Aplite, that strike length has been increased to nearly 1,500 metres. Emerald was found over a width of 500 metres.

In 2003, True North collected two, relatively-large mini-bulk samples for emeralds from: 1) the Mattscar vein; and, 2) the Southwest vein. The Mattscar vein was tested by means of surface trenches, whereas the Southwest vein was tested by means of underground exploration. The emeralds collected at Mattscar were either recovered manually during track-hoe excavation, or were

carefully hand-picked immediately following excavation from the fresh stockpiles. In contrast to this, the emeralds taken from underground were largely derived from mined tonnage processed through the wash plant, where it was crushed, screened and washed, and then hand-picked from a moving belt. A significant portion of each mining round was re-sued to remove the waste material prior to processing.

At Mattscar, the emeralds primarily occurred as disseminations in weathered and altered biotite and chlorite schist with lesser quartz veinlets; whereas in the Southwest vein emeralds primarily occur within and immediately adjacent to prominent quartz-tourmaline veins. As such, the 2003 sampling campaign was a test between two different mining and processing methods, and two different deposit types (i.e. emerald in schist taken by trenching at the surface at Mattscar whereas emerald in quartz-tourmaline veins taken by underground exploration at the Southwest vein).

At each location, roughly one thousand tonnes of material was tested for grade. Overall, the Mattscar vein returned 7.08 grams per tonne of total emerald, while the Southwest vein returned 9.25 grams per tonne total emerald.

Of note, the Mattscar grades are based on hand selection accompanied by processing of only 22 tonnes of the estimated 210 tonne stockpile from the 960 tonne mini-bulk sample (the remainder of the sample comprising approximately 750 tonnes was discarded after visual examination), while the U/G exploration grades for the Southwest vein are based on incomplete processing of the re-sued material; the remainder of the samples, specifically 2 rounds and 17 rounds in total were processed during 2004 and await processing in 2005, respectively. All of the material removed from the crosscut and second adit awaits processing in 2005.

The 2003 diamond drilling successfully outlined the Southwest vein at depth in preparation for underground exploration. The first nine holes also uncovered a succession of similar quartz-tourmaline veins, sub-parallel to the Southwest vein, which the 2003 Phase 2 drilling traced in cross-section westward and may be connected to the Mattscar and West veins.

In order to achieve the goal of testing emerald mineralization from below the depths accessible through surface trenching, a horizontal adit was driven on the Southwest vein at an elevation of 1760 metres.

A total of 2,149 tonnes were collected from 43 underground mining rounds, but only 21 rounds were involved in the mini-bulk sample. These rounds collectively represent 987 tonnes, of which only 290 tonnes were processed through the wash plant. The grade of the 987 tonne underground mini-bulk sample (Mining Rounds 1 – 21) was 3.2 grams per tonne gem plus near-gem. The grade of the 2002 surface mini-bulk sample from the Southwest vein was 111.4 grams per tonne gem plus near-gem. Underground, emerald was visible in twenty-one consecutive mining rounds down a mineralized strike length of 40 metres along the emerald shoot in the Southwest vein.

The subsurface program also successfully exposed a newly discovered footwall vein, designated SW #2 vein. Emeralds were found in sections of this vein in the underground workings, but only a small sample was processed. The raise on the Southwest #1 vein, a horsetail splay to the surface, also showed significant emerald mineralization for over nine metres in the vertical dimension. There was no confirmation of increased emerald size or quality underground, however, the largest faceted emeralds, though highly occluded and of poor commercial quality, found to date were from the underground program (2.38 and 2.09 carats).

In 2003, a total of 210 kilograms of field-split emerald samples were shipped. By eliminating matrix and waste, this material was sorted down to 16 kilograms of total beryl, from which 7.228 kilograms consisted of the hand-picked gem and near-gem fractions. This lot was representative of that portion of the 1,957 tonnes tested from the Mattscar vein and the Southwest vein, combined. Altogether, the two mini-bulk samples indicated an average grade of 3.696 grams per tonne of gem and near-gem fraction.

During 2003, 25 kilometres of survey lines were sampled, with 479 soil geochemical samples collected. Results further refined the correlations between emerald in outcrop and float, and geochemical anomalies characterized by elevated levels of Be-Cu-W-Sn-Bi-F. The stacked geochemical anomaly overprinting the emerald occurrence in the Summit Zone along the crestline of Regal Ridge at Tsa da Glisza measured 800 x 400 metres. Geochemical analysis of several rock types shows distinct elemental fingerprints relating to two emerald-producing quartz-tourmaline vein systems. The Southwest vein shows elevated Li, Sn, and F values bracketing quartz-tourmaline veins, and Be, Bi, and W peak within the selvages of veins.

The 2003 grid soil geochemistry survey has identified several stacked geochemical targets in three areas which warrant more detailed prospecting, including: 1) the airstrip; 2) the valley to the south of Regal Ridge; and, 3) the valley to the south of Howdy Ridge. The latter two anomalies follow the valley base and required additional soil sampling to isolate targets for trenching. The areas trenched on Regal Ridge (Summit Zone) to the rock and soil geochemical anomalies identified before and during 2003 included: Mattscar; West; Far West; Area 9 and Area 10 on the Discovery vein, Area 51 on the Gaboury vein and the Airport Aplite.

2004

The 2004 Tsa Da Glizsa exploration program consisted of surface trenching, mini-bulk sampling, exploration and mini-bulk sample processing, gemstone diamond drilling, soil geochemical sampling, regional geological mapping and regional prospecting.

All of the principal project objectives were met, though the repairs to the plant and subsequent water management issues contributed to less process plant throughput than planned. The processing of the remaining 2003 samples and new samples generated during 2004 was deferred to 2005; plans for further upgrades to the plant design and 24/7 operations were put in place.

SURFACE TRENCHING

The 2004 trenching and sampling program comprised fourteen trenches, totalling 680 metres in length, and ten mini-bulk samples (1,582 tonnes) which were completed over geochemical anomalies, downstrike projections and extensions of known emerald-bearing structures. The 2004 drill intersections of quartz-tourmaline-scheelite veining and intense hydrothermal alteration within and adjacent to the known mineralized areas of the Summit Zone have provided priority targets for trenching and mini-bulk sampling.

Recent trenching of the Southwest vein has exposed more extensive, emerald-bearing quartz-tourmaline-scheelite vein structures containing abundant, well-formed prismatic emerald crystals measuring from <1-5 cm in length and up to 1.5 cm in diameter. Emeralds with moderate to intense green colouration, very

pale bluish hues and excellent transparency are intergrown primarily with quartz and scheelite.

At Mattscar, two samples were excavated and processed. Visible emeralds were encountered in two locations during excavating and 190 kg of friable altered material containing abundant emerald, brown mica-chlorite and fine-grained masses of black tourmaline, was hand mined and sorted for emerald recovery.

The initial stages of trenching and hand stripping in the Shadow Zone has identified quartz-tourmaline veins with visible, locally coarse-grained, emerald mineralization. Alteration of the host chlorite schist is very limited in extent, with emerald associated mainly with fine-grained tourmaline, quartz, beryl and only minor scheelite. A second trench upslope was done to follow two more vertical quartz-tourmaline veins. The veins range from 10 to 100 cm wide and can be followed for about 15 metres. They are separated by approximately 4 to 5 metres. There are also several shorter segments of more flat-lying quartz-tourmaline veins that intersect the vertical veins. There was minor rusty alteration of the schist with elevated mica content marginal to the veining as well as some tourmaline within the schist. Exploration and mini-bulk sampling of the veins will be carried out during the 2005 program.

Five tonnes of quartz-tourmaline vein material, commonly with visible emerald, collected during prospecting have been stockpiled at the process plant and were processed during August 2004. The beryl was intimately intergrown with the quartz and very fine-grained masses of tourmaline.

DIAMOND DRILLING

The 2004 diamond drilling program has successfully explored the subsurface potential of the Summit Zone on Regal Ridge and also completed a Phase 1 program of the Shadow Zone on Howdy Ridge for emerald mineralization. The results have confirmed the continuity of Summit Zone emerald mineralization to depth from veins identified at surface, identified new areas of potential emerald mineralization and returned eight intersections with visible emerald in drill core at the Tsa da Glizsa (formerly Regal Ridge), Yukon property.

The drill intersections of favourable quartz-tourmaline veins and associated hydrothermal alteration zones lying up to 100 metres below the known emerald

mineralization in the Summit Zone on Regal Ridge, along with the discovery of the Shadow Zone emeralds on Howdy Ridge, comprise our most significant exploration achievements during the 2004 season. Together, both accomplishments point to the significant growth potential for the Tsa da Glizsa project.

Core drilling of 3,503 metres in 54 holes was concluded on August 19th. The Phase I - IV drilling programs on Regal Ridge consisted of 46 holes for a total of 3,084 metres, and the Phase I program on Howdy Ridge consisted of eight holes totalling 418 metres. The drill data are summarized in Table 2. The drill collar map, detailed geological logs and drill sections are given in Appendices 2, 3 and 4 through 11, respectively. Longitudinal sections are provided for Lines 100S, 50S, 0N, 50N, 100N, 175N, West Zone and Shadow Zone.

TABLE 2. DRILLING SUMMARY

2004 Phase 1 Drill Holes

Hole ID	Easting	Northing	Elevation (m)	Azimuth	Dip (°)	Depth (m)	Date Started	Date Finished
DDH04-15	414715	6794553	1762	152	-45	45.7	6-Jun-2004	7-Jun-2004
DDH04-16	414594	6794707	1717	N/A	-90	50.9	8-Jun-2004	9-Jun-2004
DDH04-17	414499	6794748	1683	N/A	-90	101.2	10-Jun-2004	12-Jun-2004
DDH04-18	414473	6794862	1683	N/A	-90	52.4	12-Jun-2004	13-Jun-2004
DDH04-19	414354	6794884	1654	N/A	-90	50.9	13-Jun-2004	14-Jun-2004
DDH04-20	414273	6794948	1634	N/A	-90	91.4	14-Jun-2004	16-Jun-2004
DDH04-21	414521	6794950	1684	N/A	-90	122.5	21-Jun-2004	24-Jun-2004
DDH04-22	414808	6794503	1784	N/A	-90	93.6	24-Jun-2004	26-Jun-2004
DDH04-23	415010	6794441	1807	N/A	-90	33.1	26-Jun-2004	27-Jun-2004
DDH04-24	414903	6794479	1805	N/A	-90	93.9	1-Jul-2004	7-Jul-2004
DDH04-25	415087	6794384	1795	N/A	-90	118.0	17-Jul-2004	19-Jul-2004
DDH04-26	415186	6794329	1791	N/A	-90	70.7	16-Jul-2004	17-Jul-2004
DDH04-27	415283	6794290	1782	N/A	-90	114.6	13-Jul-2004	16-Jul-2004
DDH04-28	415379	6794248	1779	N/A	-90	82.9	7-Jul-2004	10-Jul-2004
DDH04-29	415481	6794231	1794	N/A	-90	114.6	10-Jul-2004	13-Jul-2004
DDH04-30	414888	6794429	1773	N/A	-90	121.0	19-Jul-2004	21-Jul-2004
				Total Phase 1 (metres)		**1357.4**	**1357.4**	

2004 Phase 2 Drill Holes

Hole ID	Easting	Northing	Elevation (m)	Azimuth	Dip (°)	Depth (m)	Date Started	Date Finished
DDH04-31	414928	6794410	1783	N/A	-90	72.2	22-Jul-2004	24-Jul-2004
DDH04-32	414834	6794441	1773	N/A	-90	69.2	21-Jul-2004	22-Jul-2004

DDH04-33	415015	6794379	1789	N/A	-90	65.8	24-Jul-2004	25-Jul-2004
DDH04-34	415048	6794413	1798	N/A	-90	70.7	25-Jul-2004	26-Jul-2004
DDH04-35	414945	6794458	1803	N/A	-90	50.9	27-Jul-2004	28-Jul-2004
DDH04-36	414860	6794484	1794	N/A	-90	73.8	28-Jul-2004	29-Jul-2004
DDH04-37	414988	6794417	1798	N/A	-90	50.6	29-Jul-2004	30-Jul-2004
DDH04-38	414770	6794522	1783	N/A	-90	55.2	30-Jul-2004	31-Jul-2004
DDH04-39	415137	6794367	1797	N/A	-90	7.6	31-Jul-2004	1-Aug-2004
DDH04-39A		6794367	1797	N/A	-90	50.4	1-Aug-2004	1-Aug-2004
DDH04-40	414701	6794506	1761	N/A	-90	50.9	31-Jul-2004	1-Aug-2004
				Total Phase 2 (metres)		**617.3**	**1974.8**	

2004 Phase 3 Drill Holes

Hole ID	Easting	Northing	Elevation (m)	Azimuth	Dip (°)	Depth (m)	Date Started	Date Finished
DDH04-41	414687	6794545	1765	N/A	-90	55.5	1-Aug-2004	2-Aug-2004
DDH04-42	414687	6794603	1738	N/A	-90	50.9	2-Aug-2004	3-Aug-2004
DDH04-43	414745	6794587	1752	N/A	-90	54.0	7-Aug-2004	8-Aug-2004
DDH04-44	414648	6794575	1742	N/A	-90	53.6	3-Aug-2004	4-Aug-2004
DDH04-45	414748	6794483	1771	N/A	-90	62.5	3-Aug-2004	4-Aug-2004
DDH04-46	414789	6794473	1777	N/A	-90	53.0	6-Aug-2004	7-Aug-2004
DDH04-47	414990	6794479	1800	N/A	-90	51.8	4-Aug-2004	5-Aug-2004
DDH04-48	414946	6794506	1787	N/A	-90	54.6	5-Aug-2004	6-Aug-2004
DDH04-49	Deferred to 2005			N/A	-90	---		
DDH04-50	Deferred to 2005			N/A	-90	---		
DDH04-51	Deferred to 2005			N/A	-90	---		
DDH04-52	414721	6794552	1773	N/A	-90	32.9	14-Aug-2004	15-Aug-2004
DDH04-52A		6794552	1773	N/A	-90	67.7	16-Aug-2004	17-Aug-2004
DDH04-53	414615	6794669	1732	N/A	-90	50.6	8-Aug-2004	8-Aug-2004
DDH04-54	414544	6794728	1699	N/A	-90	51.8	7-Aug-2004	8-Aug-2004
				Total Phase 3 (metres)		**638.9**	**2613.6**	

2004 Phase 4 Drill Holes

Hole ID	Easting	Northing	Elevation (m)	Azimuth	Dip (°)	Depth (m)	Date Started	Date Finished
DDH04-55	414644	6794462	1721	N/A	-90	51.0	4-Aug-2004	5-Aug-2004
DDH04-56	414697	6794430	1730	N/A	-90	51.0	5-Aug-2004	6-Aug-2004
DDH04-57	414875	6794381	1751	N/A	-90	50.0	13-Aug-2004	14-Aug-2004
DDH04-58	414912	6794365	1757	N/A	-90	50.9	13-Aug-2004	13-Aug-2004
DDH04-59	414566	6794802	1687	N/A	-90	50.9	12-Aug-2004	12-Aug-2004
DDH04-60	414544	6794880	1684	N/A	-90	50.9	11-Aug-2004	12-Aug-2004
DDH04-61	414509	6795017	1675	N/A	-90	50.9	9-Aug-2004	10-Aug-2004
DDH04-62	414733	6794530	1770	330	-60	75.3	17-Aug-2004	19-Aug-2004

DDH04-63	414687	6794602	1742	330	-75	40.0	15-Aug-2004	16-Aug-2004
DDH04-64	Deferred to 2005			115	-80	---		
DDH04-65	Deferred to 2005			N/A	-90	---		
DDH04-66	Deferred to 2005			N/A	-90	---		
DDH04-67	Deferred to 2005			N/A	-90	---		
DDH04-68	Deferred to 2005			N/A	-90	---		
				Total Phase 4 (metres)		**470.9**	**3084.5**	

2004 Phase 1 Shadow Zone Drill Holes

Hole ID	Easting	Northing	Elevation (m)	Azimuth	Dip (°)	Depth (m)	Date Started	Date Finished
DDH04-69	414591	6793467	1599	004	-75	77.7	13-Aug-2004	14-Aug-2004
DDH04-70	414591	6793469	1599	004	-55	50.9	13-Aug-2004	13-Aug-2004
DDH04-71	414529	6793549	1563	338	-55	50.3	12-Aug-2004	13-Aug-2004
DDH04-72	414528	6793549	1567	023	-55	2.1	11-Aug-2004	11-Aug-2004
DDH04-72A		6793549	1563	023	-55	50.3	11-Aug-2004	12-Aug-2004
DDH04-73	414566	6793502	1580	N/A	-90	30.5	11-Aug-2004	11-Aug-2004
DDH04-74	414579	6793480	1592	N/A	-90	51.8	10-Aug-2004	11-Aug-2004
DDH04-75	414591	6793462	1599	N/A	-90	53.3	9-Aug-2004	10-Aug-2004
DDH04-76	414604	6793449	1603	N/A	-90	51.8	9-Aug-2004	9-Aug-2004
				Total Phase 1 Shadow Zone (metres)		**418.8**	**3503.3**	

The diamond drilling program was expedited by two rigs from Kluane Drilling of Whitehorse (Illustrations 3 and 4).

All core logging was completed between June and September 2004; the logging protocols were modified to include black light examination of all core intervals for the presence of fluorescent minerals, specifically scheelite, $CaWO_4$, which commonly accompanies the tourmaline and beryl/emerald in altered metavolcanics.

The first phase of drilling consisted of 16 HQ holes with a total depth of 1308.37 metres. The holes varied in depth from 33.13 to 122.53 metres. This phase had a total of 62 intervals across 16 holes that were considered to have the favorable geologic indications that could potentially host emerald mineralization. DDH04-16, 21, 22, 26 all had emerald grains recovered from coarse rejects of the core.

Phase 2 consisted of 10 drill holes, both HQ and NQ, with a total depth of 617.8 metres. The holes varied in depth from 7.62 to 73.76 metres. This phase

contained 59 favorable intervals across 10 holes. There were no observed occurrences of emerald grains in the coarse rejects.

Phase 3 consists of 11 holes, both HQ and NQ, with a total depth of 638.04 metres. The holes vary in depth from 32.92 to 67.67 metres and exhibited 62 intervals of interest. DDH04-45 had emerald grains recovered from coarse rejects of the core. DDH04-44 had emerald rough in core in addition to emerald grains recovered from coarse rejects of the core.

Phase 4 consists of 17 holes, both HQ and NQ, with a total depth of 900.56 metres. The holes vary in depth from 8.84 to 77.72 metres. This phase consists of drilling on the Summit Zone and drilling on the newly discovered Howdy Zone. Nine holes were drilled on the Summit Zone and eight holes on the Shadow Zone on Howdy Ridge. This phase displayed 30 intervals across 9 holes on Regal Ridge and 35 intervals across 8 holes on Howdy Ridge with geologically favourable intersections.

To date, the subsurface geology consists of predominately a chlorite schist package with weak to very strong rusty alteration and quartz, tourmaline and quartz/tourmaline veins sporadically throughout the chlorite schist. The Cretaceous granite, the probable source of Be for the formation of beryl (emerald) has not been intersected, to date, however, it had been mapped in outcrop at various locations along the lower ridge including the bottom of the valley between Regal Ridge and Howdy Ridge. Intersections of actinolite-chlorite schist initially identified as Dmi occur at various locations throughout the ridge including DDH04-43, 20 and 26. Aplite veining occurs at various locations throughout the ridge. Major intersections of Aplite lenses include DDH04-33, 27, 28, 25, 26 and 54. The Tertiary dyke was observed across the ridge in holes DDH04-17, 20, 30, 28, 29, and 25. The dyke appears to be lower in section going from east to west, possible a result of multiple faults with low to moderate displacement.

On Regal Ridge, geological core logging identified numerous zones of multi-stage, quartz-tourmaline-scheelite veining accompanied by tourmaline and rusty mica-rich alteration of the Fyre Lake chlorite schist, all features indicative of the known emerald mineralization. Of special interest is a thick, mineralized section from 250-270 feet (75-85 metres) and several zones from 310-340 feet (100-120 metres) in DDH04-24 and several intersections in DDH-21, 30, 31, 32, 44, 47, and 48 in the Summit Zone proper, and also within three holes, particularly in DDH-16, 53, 59 and 60 along the West vein at the northern

extension of Regal Ridge, more than 100 metres distant from the Mattscar vein of the Summit Zone.

Visible emerald (VE) was observed in drill core in DDH04-44 and DDH04-63 on September 5 and 6, 2004 respectively. VE was found in DDH04-44 at a depth of 18.88 to 19.09 metres (see Illustration 5). The VE occurred in three pods in the vein along 15cm of the 20cm circumference of the HQ core. VE was found in DDH04-63 at a depth of 25.48 to 25.79 metres. The VE occurred in a cluster measuring about 4 cm x 2 cm in HQ core. The emeralds tend to have a creamy white (possibly white beryl) rinds. There was also a creamy white hexagonal beryl crystal at 25.58 metres depth.

These and several other drill intersections on the Summit Zone of Regal Ridge mark a significant exploration milestone as they underlie at significant depth the known emerald mineralization in the Summit Zone, which occurs principally from surface down to 30 metres. Therefore, the results from the 2004 drill program greatly expand both the area and depth potential for targeting more emerald-bearing veins on Regal Ridge.

Additionally, several major thick intersections of veining and intense alteration in DDH-04-42, DDH04-43 and DDH04-62 within and below the area of the Mattscar Pit provide high priority targets for trenching and mini-bulk sampling elsewhere on Regal Ridge.

The Phase I core drilling program in the Shadow Zone, located on Howdy Ridge one kilometre west of the Summit Zone on Regal Ridge, intersected the favourable Fyre Lake schist and quartz-tourmaline±scheelite veining. The latter correlate with subvertical and shallow dipping, emerald-bearing veins encountered in the initial trenching program. Of the eight holes drilled, four were angled between -75 and -55 degrees and four were vertical. The holes ranged in depth to a maximum of 77.72 metres (DDH04-69).

Favorable quartz/tourmaline veining on Howdy Ridge has no significant alteration halos compared to Regal Ridge. The alteration halo surrounding veins tends to be weak to moderate in intensity. Of the 35 zones identified as having the favorable geologic indications that could potentially host emerald mineralization, only 1 zone has moderate peripheral alteration, all of the remaining intersections have weak alteration. The majority of the veins intersected ranged in thickness from~5cm to ~ 65cm (DDH04-71). The major lithologic units intersected include chlorite schist (DF) and altered chlorite

schist (DF $_{1,2,3}$). There were no intersections of Td, Dmi, Kg or visible emerald observed at Howdy Ridge.

Additional detailed geological and structural logging of the Summit and Shadow Zone core will be continued during the 2005 program.

Analysis of the 2004 drill core has identified 213 zones (intervals) with the geological indicators favourable for hosting emerald mineralization (Table 3).

TABLE 3. DRILL CORE INTERVALS WITH FAVOURABLE ALTERATION AND VEINING

Hole_ID	Depth From (m)	Depth To (m)	Total Thickness of Interval (m)	Hole_ID	Depth From (m)	Depth To (m)	Total Thickness of Interval (m)
DDH04-15	4.80	16.40	11.60	DDH04-16	1.59	6.09	4.50
DDH04-15	23.26	36.90	13.64	DDH04-16	9.54	29.81	20.27
DDH04-15	39.64	40.43	0.79	DDH04-16	31.03	31.08	0.05
# Intervals	**3**	**Total (m)**	**26.03**	DDH04-16	33.28	33.4	0.12
				DDH04-16	33.97	48.00	14.03
				# Intervals	**5**	**Total (m)**	**38.97**
DDH04-17	4.94	6.15	1.21	DDH04-18	3.66	3.80	0.14
DDH04-17	23.35	25.00	1.65	DDH04-18	11.67	27.96	16.29
DDH04-17	41.29	41.55	0.26	DDH04-18	48.48	50.21	1.73
DDH04-17	42.66	44.19	1.53	**# Intervals**	**3**	**Total (m)**	**18.16**
DDH04-17	58.48	60.79	2.31				
DDH04-17	78.64	78.87	0.23				
# Intervals	**6**	**Total (m)**	**7.19**				
DDH04-19	9.00	9.10	0.10	DDH04-20	8.75	17.12	8.37
DDH04-19	25.59	39.45	13.86	DDH04-20	29.00	30.86	1.86
DDH04-19	42.30	42.40	0.10	**# Intervals**	**2**	**Total (m)**	**10.23**
# Intervals	**3**	**Total (m)**	**14.06**				
DDH04-21	1.88	2.56	0.68	DDH04-22	4.85	4.93	0.08
DDH04-21	8.33	8.49	0.16	DDH04-22	17.37	22.00	4.63
DDH04-21	21.08	25.54	4.46	**# Intervals**	**2**	**Total (m)**	**4.71**
DDH04-21	29.91	30.20	0.29				
DDH04-21	45.98	46.09	0.11	DDH04-23	28.23	30.57	2.34
DDH04-21	63.73	63.87	0.14	**# Intervals**	**1**	**Total (m)**	**2.34**
DDH04-21	72.55	76.34	3.79				
# Intervals	**7**	**Total (m)**	**9.63**				
DDH04-24	1.93	21.87	19.94	DDH04-25	8.71	19.56	10.85
DDH04-24	25.05	35.47	10.42	DDH04-25	26.58	26.78	0.20
DDH04-24	41.20	44.90	3.70	DDH04-25	34.60	36.42	1.82
DDH04-24	49.19	49.54	0.35	DDH04-25	40.34	67.03	26.69
DDH04-24	51.63	55.30	3.67	DDH04-25	72.40	72.88	0.48
DDH04-24	62.17	80.22	18.05	DDH04-25	74.32	74.38	0.06
# Intervals	**6**	**Total (m)**	**56.13**	DDH04-25	75.88	75.91	0.03
				# Intervals	**7**	**Total (m)**	**40.13**

DDH04-26	27.88	28.38	0.50	DDH04-27	31.77	32.68	0.91
DDH04-26	30.28	32.61	2.33	DDH04-27	55.63	55.78	0.15
DDH04-26	40.89	42.64	1.75	DDH04-27	63.77	68.32	4.55
# Intervals	**3**	**Total (m)**	**4.58**	**# Intervals**	**3**	**Total (m)**	**5.61**
DDH04-28	15.70	16.36	0.66				
DDH04-28	57.73	59.74	2.01				
# Intervals	**2**	**Total (m)**	**2.67**				
DDH04-29	44.90	45.00	0.10	DDH04-30	2.20	2.26	0.06
DDH04-29	47.85	48.76	0.91	DDH04-30	7.31	27.49	20.18
DDH04-29	55.89	56.90	1.01	DDH04-30	32.98	45.28	12.30
DDH04-29	66.03	66.17	0.14	DDH04-30	48.44	71.43	22.99
DDH04-29	74.03	84.12	10.09	**# Intervals**	**4**	**Total (m)**	**55.53**
# Intervals	**5**	**Total (m)**	**12.25**				
DDH04-31	5.46	5.53	0.07	DDH04-32	2.13	5.79	3.66
DDH04-31	33.04	41.66	8.62	DDH04-32	9.48	22.02	12.54
DDH04-31	47.29	59.22	11.93	DDH04-32	24.83	29.95	5.12
DDH04-31	63.94	68.35	4.41	DDH04-32	31.00	39.77	8.77
# Intervals	**4**	**Total (m)**	**25.03**	DDH04-32	39.85	46.12	6.27
				DDH04-32	48.48	59.70	11.22
				# Intervals	**6**	**Total (m)**	**47.58**
DDH04-33	6.36	11.98	5.62	DDH04-34	21.75	22.12	0.37
DDH04-33	16.35	16.41	0.06	DDH04-34	24.61	26.80	2.19
DDH04-33	18.93	19.04	0.11	DDH04-34	29.56	31.60	2.04
DDH04-33	21.38	42.71	21.33	DDH04-34	35.38	40.09	4.71
DDH04-33	48.12	56.90	8.78	DDH04-34	51.91	58.63	6.72
DDH04-33	62.53	62.61	0.08	DDH04-34	62.09	63.25	1.16
# Intervals	**6**	**Total (m)**	**35.98**	DDH04-34	64.57	69.19	4.62
				# Intervals	**7**	**Total (m)**	**21.81**
DDH04-35	7.54	7.64	0.10	DDH04-36	4.35	5.77	1.42
DDH04-35	12.11	13.14	1.03	DDH04-36	8.18	10.09	1.91
DDH04-35	25.05	29.85	4.80	DDH04-36	14.82	15.59	0.77
# Intervals	**3**	**Total (m)**	**5.93**	DDH04-36	17.82	22.51	4.69
				DDH04-36	22.51	25.82	3.31
DDH04-37	4.38	9.37	4.99	DDH04-36	37.53	41.88	4.35
DDH04-37	12.49	13.00	0.51	DDH04-36	43.39	44.75	1.36
DDH04-37	23.05	26.52	3.47	DDH04-36	46.00	73.20	27.20
DDH04-37	28.10	32.37	4.27	**# Intervals**	**8**	**Total (m)**	**45.01**
# Intervals	**4**	**Total (m)**	**13.24**				
DDH04-38	1.83	6.77	4.94	DDH04-39A	4.45	5.42	0.97
DDH04-38	10.70	16.43	5.73	DDH04-39A	37.71	37.83	0.12
DDH04-38	20.26	22.10	1.84	DDH04-39A	41.20	41.35	0.15
DDH04-38	23.13	23.60	0.47	DDH04-39A	43.24	43.80	0.56
DDH04-38	25.58	38.16	12.58	DDH04-39A	47.56	47.75	0.19
DDH04-38	39.26	42.57	3.31	**# Intervals**	**5**	**Total (m)**	**1.99**
DDH04-38	43.72	54.66	10.94				
# Intervals	**7**	**Total (m)**	**39.81**				

DDH04-40	3.05	6.98	3.93	DDH04-41	2.10	54.80	52.70
DDH04-40	9.45	14.00	4.55	**# Intervals**	**1**	**Total**	**52.70**
DDH04-40	15.62	16.83	1.21				
DDH04-40	19.53	20.04	0.51	DDH0442	5.33	6.19	0.86
DDH04-40	21.42	23.80	2.38	DDH0442	8.84	10.76	1.92
DDH04-40	27.86	28.27	0.41	DDH0442	12.00	13.51	1.51
DDH04-40	30.38	30.83	0.45	DDH0442	18.63	19.50	0.87
DDH04-40	32.03	36.75	4.72	DDH0442	20.45	44.60	24.15
DDH04-40	28.83	47.93	19.10	DDH0442	49.38	50.90	1.52
# Intervals	**9**	**Total (m)**	**37.26**	**# Intervals**	**6**	**Total (m)**	**30.83**
DDH04-43	14.17	15.70	1.53	DDH04-44	4.22	9.14	4.92
DDH04-43	25.98	26.55	0.57	DDH04-44	10.34	10.72	0.38
DDH04-43	31.81	35.49	3.68	DDH04-44	12.38	12.48	0.10
DDH04-43	36.29	43.40	7.11	DDH04-44	14.46	29.64	15.18
DDH04-43	46.23	54.01	7.78	DDH04-44	31.70	31.95	0.25
# Intervals	**5**	**Total (m)**	**20.67**	DDH04-44	34.87	35.78	0.91
				DDH04-44	37.16	41.25	4.09
DDH04-45	2.85	9.40	6.55	DDH04-44	45.34	45.41	0.07
DDH04-45	11.07	27.66	16.59	DDH04-44	47.84	48.33	0.49
DDH04-45	38.08	62.14	24.06	DDH04-44	49.54	49.83	0.29
# Intervals	**3**	**Total (m)**	**47.20**	**# Intervals**	**10**	**Total (m)**	**26.68**
DDH05-46	7.10	9.00	1.90	DDH04-47	1.83	1.92	0.09
DDH05-46	10.30	11.90	1.60	DDH04-47	3.40	7.30	3.90
DDH05-46	13.31	18.06	4.75	DDH04-47	9.05	18.19	9.14
DDH05-46	20.35	21.63	1.28	DDH04-47	19.30	20.78	1.48
DDH05-46	26.94	52.15	25.21	DDH04-47	23.05	31.23	8.18
# Intervals	**5**	**Total (m)**	**34.74**	DDH04-47	38.08	42.40	4.32
				DDH04-47	43.68	50.17	6.49
				# Intervals	**7**	**Total (m)**	**33.60**
DDH04-48	1.88	2.00	0.12	DDH04-52A	4.21	5.30	1.09
DDH04-48	6.92	7.23	0.31	DDH04-52A	9.76	10.03	0.27
DDH04-48	11.25	11.33	0.08	DDH04-52A	12.38	12.61	0.23
DDH04-48	13.25	27.29	14.04	DDH04-52A	16.81	16.88	0.07
DDH04-48	29.07	41.47	12.40	DDH04-52A	18.14	20.70	2.56
DDH04-48	47.58	53.04	5.46	DDH04-52A	21.71	38.25	16.54
# Intervals	**6**	**Total (m)**	**32.41**	DDH04-52A	45.10	48.70	3.60
				DDH04-52A	50.90	67.66	16.76
				# Intervals	**8**	**Total (m)**	**41.12**
DDH04-53	2.78	51.62	48.84				
# Intervals	**1**	**Total**	**48.84**				
DDH04-54	1.22	3.23	2.01	DDH04-55	4.00	19.40	15.40
DDH04-54	8.10	8.18	0.08	DDH04-55	35.10	40.95	5.85
DDH04-54	9.30	10.10	0.80	DDH04-55	42.00	49.75	7.75
DDH04-54	15.09	15.14	0.05	**# Intervals**	**3**	**Total (m)**	**29.00**
DDH04-54	16.64	16.98	0.34				

DDH04-54	26.37	27.00	0.63	DDH04-56	2.00	6.40	4.40
DDH04-54	30.20	34.10	3.90	DDH04-56	7.90	8.80	0.90
DDH04-54	39.63	44.43	4.80	DDH04-56	9.50	34.05	24.55
DDH04-54	45.55	46.32	0.77	**# Intervals**	**3**	**Total (m)**	**29.85**
DDH04-54	50.00	51.82	1.82				
# Intervals	**10**	**Total (m)**	**15.20**	DDH04-57	5.40	49.99	44.59
				# Intervals	**1**	**Total (m)**	**44.59**
DDH04-58	3.05	15.00	11.95	DDH04-59	5.15	6.05	0.90
DDH04-58	17.80	28.85	11.05	DDH04-59	9.67	26.44	16.77
# Intervals	**2**	**Total (m)**	**23.00**	DDH04-59	47.60	47.69	0.09
				# Intervals	**3**	**Total (m)**	**17.76**
DDH04-60	8.43	12.75	4.32	DDH04-61	17.61	18.66	1.05
DDH04-60	14.67	33.82	19.15	DDH04-61	25.67	25.78	0.11
DDH04-60	35.20	35.85	0.65	DDH04-61	26.82	31.48	4.66
DDH04-60	38.49	41.38	2.89	DDH04-61	37.07	45.10	8.03
DDH04-60	42.65	43.60	0.95	DDH04-61	48.82	48.90	0.08
DDH04-60	44.77	50.79	6.02	**# Intervals**	**5**	**Total (m)**	**13.93**
# Intervals	**6**	**Total (m)**	**33.98**				
DDH04-62	1.52	37.80	36.28	DDH04-63	2.96	3.00	0.04
DDH04-62	39.60	70.40	30.80	DDH04-63	6.48	7.06	0.58
# Intervals	**2**	**Total (m)**	**67.08**	DDH04-63	9.04	15.15	6.11
				DDH04-63	17.45	18.79	1.34
				DDH04-63	22.72	47.85	25.13
				# Intervals	**5**	**Total (m)**	**33.20**

EMERALD RECOVERY – DIAMOND DRILLING

The results of this work have confirmed the continuity of emerald mineralization to depth from zones identified at surface, identified new areas of potential emerald mineralization and returned eight intersections with visible emerald in drill core (Table 4). The recovery of emerald in two samples of drill core is considered a rare event, but is important information relating to the continuity of emerald mineralization. The emerald occurred in the typical association with fabric parallel, quartz-tourmaline-scheelite and friable, heavily altered micaceous Fyre Lake schist. The emerald comprised numerous crystals of near-gem to non-gem (translucent to opaque) character which were observed completely around the intersection.

In addition to the whole drill core intercepts, a total of 609 drill core coarse rejects were retrieved from ALS Chemex in North Vancouver and were processed by True North Gems in the Vancouver laboratory. During the scoping phase of the program, the samples were wet screened at 1mm screen size and the oversize was dried and submitted to KIM Dynamics for selection of any visible emerald chips under the binocular microscope. The emerald chips were

recovered from seven drill holes including DDH04-44 which contained the coarse visible emeralds, though the sampled interval (18.88-19.02m) was located just above the core interval (19.02-19.2m) shown in the Illustration 5.

TABLE 4. EMERALD INTERCEPTS IN 2004 DRILL CORE

Hole ID	Depth From (m)	Depth To (m)	# Emerald Grains Recovered	Sample #	UTM East	UTM North	Elevation From (m)	Elevation To (m)
Coarse Reject								
DDH04-16	28.55	28.72	4	390051	414595	6794706	1685	1685
DDH04-21	74.89	75.50	10	390121	414522	6794948	1604	1604
DDH04-22	52.43	52.93	>50	390159	414810	6794502	1730	1729
DDH04-26	40.89	41.23	1	390324	415187	6794327	1746	1746
DDH04-45	13.35	13.55	19	390564	414750	6794482	1754	1753
DDH04-44	18.88	19.02	9	390599	414650	6794575	1717	1717
DDH04-57	9.00	9.25	17	391011	414876	6794383	1743	1743
Drill Core								
DDH04-44	19.02	19.09	---	390738	414650	6794575	1717	1717
DDH04-63	25.48	25.79	---	390739	414688	6794602	1718	1718

The presence of emeralds in drill core provides direct confirmation of the continuity of surface emerald mineralization in three dimensions and will be helpful in the formulation of mineral resource calculations.

Of paramount importance is the distribution of the visible emerald intercepts within the eight drill holes. Emerald in core occurs within mineralized zones scattered in a volume of rock covering a strike length of more than 900 metres, covers two square kilometres in area and over 200 metres in vertical section. The elevation range for the emeralds is 1604 – 1753 metres. Emeralds were found in outcrop at the top of the ridge on surface at 1805 metres. The volume of rock which contains emerald mineralized zones remains open laterally and to depth and does not include any of the recently discovered zones at Howdy Ridge.

The emeralds recovered in core include micro to macro emeralds ranging from 1-15mm in average dimension and comprise gem, near-gem and non-gem material. Volumetrically, the concentration of visible emerald from drill hole intercepts is highly variable, were focused in intervals of <10-20cm within

intensely altered rock and range from extremely high to low values. These data are not considered to be representative with respect to grade in grams per tonne.

LITHOGEOCHEMISTRY

Selected intervals of the core has been sampled and processed for multi-element geochemical analysis. This work will evaluate the presence of pathfinder elements that will form the basis for discriminating intersections prospective for emerald mineralization from those which are not.

A total of 811 lithogeochemical samples comprising sawn core were taken across mineralized and non mineralized intervals of core on Regal Ridge. The analytical results continue to be evaluated for the lithogeochemical indicators of emerald mineralization. The anomalous results for Be and W are provided in histogram format on the accompanying drill sections.

Lithologies sampled included chlorite schist, quartz veins in chlorite schist, quartz/tourmaline veins, quartz veins, tourmaline veins, aplite veins, rusty alteration and Tertiary dykes. To date, the holes on Howdy Ridge have not been analyzed for lithogeochemistry.

Core samples were obtained by halving the core on a diamond impregnated tile saw. All rock samples were shipped weekly to ALS Chemex for analysis by MEMS61 four acid near-total digest ICPAES and ICPMS.

Geochemical samples that contained visible emerald were compared with samples that contained no visible emerald. A comparison of the principal group of pathfinder elements Be, Bi, Sn, W, F and Cu shows no significant distinction between samples that have visible emerald and samples that do not have visible emerald. The geochemical analysis of the drill core and their relationship to continuity of mineralization and alteration between drill holes is currently being evaluated. The drill sections indicate Be and W values attributed to areas exhibiting favourable geological indicators including elevated alteration, quartz veins and minor to ubiquitous tourmaline.

UNDERGROUND EXPLORATION

No underground exploration was conducted during 2004. The adit remained sealed and secure. All of the mining equipment provided by the contractor was removed from the site during the winter mobilization in March 2005. Surface trenching was carried out directly above the projection of the Southwest vein as per the previous section. No additional underground working is planned for 2005 or 2006.

PROCESS PLANT

True North was able to process a much larger sample in 2004 due to major modifications to its pilot processing plant. The pilot plant, which operated at a peak of only 8 tonnes per day in 2003, operated at a peak of 46 tonnes per day in 2004, per 8 hour shift. The pilot plant became fully operational in mid-July, 2004 and ran on a single 8hr shift through to September 5th; operations for 2005 will be performed on a 24/7 basis for a period anticipated to cover 75 days from June 15 through August 31, 2005.

Additional screening capacity with a 4x10 double deck 3mm and 2inch screen with enhanced washing spray bars was completed; the original 2x6 primary screen was accessed via a second conveyor belt from the primary screen and was utilized primarily for final screening at 3mm and 1 inch with a fine clean water wash prior to delivery via vibratory chutes to the secure sorting building (see Illustration 6). The stone selection was carried out by four to six persons; initially one belt as per previous years' operations was used until a second belt was constructed to handle the +1 inch oversize (see Illustration 7). It is expected that the screen deck may be modified in 2005 to a ¾ inch oversize screen. The second belt handles all of the -2+1 inch size fraction. All of the primary oversize (+2 inch) is stockpiled at the screen discharge chute and is examined by a senior geologist prior to delivery to the plant tailings stockpile. Selected samples of the oversize have been returned to the plant feed bin for secondary crushing and evaluation of the crushing behaviour, size distribution and presence or absence of altered and/or mineralized material. The plant operations ran into bottlenecks curbing production rates, particularly due to problems with the pond capacity owing to damage to the pond liner incurred in

previous years during dredging of the plant fines fraction, and difficulties with the feed hopper design, specifically caused by low slopes and small feed conveyor ports.

MINI-BULK SAMPLING

Mini-bulk samples totalling approximately 1,582 tonnes were collected from the Mattscar (see Illustration 8), Southwest, Far West, and #4 veins of the Summit Zone during the 2004 program. Processing was completed on 582.3 tonnes collected during 2004 from the Far West, Mattscar (see Illustration 9) and Southwest veins. The remainder of the trench samples were stockpiled for processing in 2005.

Emerald rough was produced from several sources, including 2003 and 2004 mini-bulk exploration samples, both from hand-cobbed material identified within the trenches during the excavation process by the trench geologist (see Illustration 10), and from material recovered after processing through the on-site pilot plant, samples of boulders selected from 2004 prospecting principally derived from the Shadow Zone of Howdy Ridge, and from prospecting samples and unsorted, mainly low quality and low grade material, remaining from the 2003 process plant operations.

The 2004 plant operations have proven very effective with 21.2 kilograms of emerald rough delivered for sorting. In addition to processing of the 2004 samples, True North recovered 1,748 grams of emerald rough from 404.5 tonnes from material stockpiled from the Mattscar and Southwest veins in 2003. The 2,533 tonne mini-bulk sample program has returned a total of 38.8 kilograms of emerald rough. The overall emerald grade estimate, based on the mini-bulk samples processed at Tsa da Glizsa, is equivalent to operating emerald mines active in Brazil and southern Africa.

GEOLOGICAL STUDIES

SUMMARY

Property scale geological mapping has expanded the known outcrop distribution of the Fyre Lake sequence, host to emerald mineralization, on Howdy Ridge as well as on the adjacent ridge exposed above the contact with the Cretaceous age

granite. Additionally, during geological mapping, a 10 kg boulder of quartz-tourmaline-emerald-bearing float was located. The discovery, named the Shadow Zone, included very high grade samples containing up to 10% emerald mineralization (see Illustration 11). The results of the mapping warranted further development of surface trenches, detailed prospecting and a Phase 1 drill program totalling 430 metres.

PROSPECTING

The 2004 regional prospecting generated positive results highlighted by the discovery of additional emerald mineralization located one kilometre from Regal Ridge, dubbed the "Shadow Zone" on Howdy Ridge (see Illustration 11). Gem and near-gem quality emerald, and beryl crystals ranged up to 10 cm in length. Widespread emerald-bearing float, quartz-tourmaline boulder trains, and emeralds in outcrop were identified up to 200 metres SSE of the original Shadow Zone discovery along Howdy Ridge. Mapping identified a steeply dipping to vertical vein with abundant opaque emeralds in outcrop above the prospecting discoveries. Colorless beryl crystals to 2cm in length were identified in quartz vein and quartz-tourmaline vein float in the Caribou Bowl area, on the southeastern limb of Howdy Ridge, more than 500m SE of the Shadow Zone.

Vein sets appear to be controlled by NE-SW verging, flat tight folds with NW S_2 crenulation lineation and plunge along shallow S_1 schistosity fabric; quartz-tourmaline veins were boudinaged, folded and locally may be transposed resulting in ladder style exposure; may be longer in dimension from E to W than exposed in NE face; folding of veins controls local attitude; likely subparallel to current slope surface moving NW into the ridge.

In order to advance the exploration of these important new discoveries at the Regal Ridge Project, a diamond drill was mobilized to the site and was employed to collect geological information and provide an initial assessment of the sub-surface continuity of the emerald-bearing mineralized structures. The drilling of 430 metres was completed in August 2004.

Soil Geochemistry

Tightly spaced geochemical soil surveys were completed on Regal Ridge, including re-sampling of traverses over the Summit Zone on Regal Ridge, which relied upon historical data, and also covered the Howdy Ridge Shadow Zone occurrence.

The soil data were consistent in general with the previous analyses which identified a greisen-style assemblage of Be, Sn, W, Bi and Cu locally exhibiting stacked anomalies. The geochemistry identified three principal centers located at Howdy Ridge proximal to the Shadow Zone, within the central portions of the Summit Zone on Regal Ridge focused around the known beryl mineralization and also a very strong and large anomaly associated with the Airstrip area.

Further analysis of the soil data are in progress using the Surfer platform with single, binary and multi-element discrimination. The additional infill sampling during 2005 will provide an enhanced spatial distribution for contouring of the geochemical data.

The available data has indicated that the stacked multi-element anomaly provides a valid guide to the identification of prospective ground but the impact of specific elements to the anomaly is broadly variable and may point to elemental zoning on a larger areal scale; this effect may be due to the proximity of the subjacent granite on both a vertical and lateral dimension.

Geological Mapping

The Regal Ridge property was mapped at 1:10,000 scale. The rock units on the property were designated as follows (YGS 2004 units – see Murphy and Piercey (OF 1999-4) and by Murphy et al. (OF 2001-33)):

- DF. Mafic metavolcanic rocks. Plagioclase-chlorite schist to phyllite. Biotite and actinolite porphyroblasts common.
- Dum. Red-weathering, moderately serpentinized ultramafic rock.
- Dmi. Actinolite-plagioclase-biotite leucogabbro to pyroxenite.
- DKcp. Carbonaceous phyllite to quartzite.
- DK. Felsic metavolcanic rocks. Range from biotite-dominant schist through plagioclase-quartz schist.

- Kg. Biotite-muscovite granite to muscovite leucogranite. Leucogranitic and aplite dikes are mapped separately (Ka).
- Eq. Eocene quartz-plagioclase porphyry dikes.

The 2004 Property geology is shown in Appendix 1 and is summarized in this section. The main host rock for the emerald-bearing veins at Regal Ridge is green-grey chlorite-plagioclase schist that locally contains biotite and actinolite porphyroblasts. The unit DF is invariably foliated and lineated, in some areas has a waxy phyllitic texture, and may contain sprays of birds-foot tourmaline. Despite the pervasive deformation that the unit has experienced, some amygdules are still locally recognizable. Regions of unit DF not mapped by the YGS occur to the NW and SE of the Airstrip Ridge, host quartz-tourmaline veins and are one of the principal exploration targets for the 2005 mapping, prospecting and trenching programs.

A biotite-actinolite-plagioclase leuco-gabbro to pyroxenite unit (correlated with unit Dmi of Murphy et al., 2001) is closely interfingered with the unit DF. In hand sample, the leucogabbro is distinctly mottled green and white in color, with millimetre-scale actinolite and plagioclase crystals causing the mottled texture. It is a more competent rock than the chlorite schist and is generally less altered by quartz veining, but geochemically also falls in the range of high-Ca boninites. Emerald-bearing quartz veins occur in the leucogabbro, but have not yet been found in the pyroxenite rock of unit Dmi. The map has distinguished between regions of interfingered unit Dmi and DF, and areas of solely Dmi, which are dominantly pyroxenite.

Brown-weathering, dark-green to black, variably-serpentinized ultramafic rocks occur in the western and northern parts of the Property. Alteration of the ultramafic rocks where they are crosscut by aplitic dykes and sills is highly variable, and much less extensive than that seen in the mafic schist or leucogabbro units.

Carbonaceous phyllite (unit DKcp) occurs over much of the south-eastern region of the property, at the top of the stratigraphic sequence.

A 300-metre wide (maximum) outcrop of quartz-plagioclase schist (unit DK) occurs on the south-facing slopes at the southern end of the Property.

The 112.2 +/- 0.5 Ma two-mica (biotite>muscovite) granite (unit Kg) extends to the east of Regal Ridge, as well as far to the north and south. It is weakly foliated to unfoliated, with shallowly dipping contacts. Regal Ridge is situated above the shallowly-dipping western margin of the intrusion.

Numerous leucogranitic and aplite-pegmatite dikes and sills from 30 cm to ten metres in width are present on the Property. Tourmaline, muscovite, and garnet are common within the dikes, with muscovite content increasing in dikes with a more pegmatitic texture. Both white (near adit) and green (airport gully) beryl are found in quartz-rich segregations within the dikes. The bodies are variably strained, ranging from massive and essentially undeformed to locally strongly deformed. The extent of hydrothermal alteration surrounding the dikes and sills is also highly variable.

Feldspar-phyric and quartz-phyric beige, purple-grey, and pink porphyry dikes and sills of Eocene age occur throughout the Property, and often intrude along the same zones of weakness exploited by the Cretaceous aplite and leucogranite dikes and sills, or along contacts.

MINERALIZATION

Several areas with high potential for hosting emerald mineralization are described below.

New regions of unit DF were mapped to the north and south of the Airstrip Ridge, which is dominantly units Dum and Dmi. Quartz-tourmaline veining occurs in both areas, but is most pervasive to the north, with some rusty-weathering phyllite also present.

Abundant quartz-tourmaline veins, massive tourmaline, and tourmaline-bearing schist float occurs over a 300 metre long area within a northwest-facing bowl just southeast of Regal Ridge. The area is at least 300 metres above the DF-Kg contact. A large aplite-leucogranite sill with a quartz-tourmaline core outcrops at the bottom of the bowl.

The ridge south of Regal Ridge, known as Howdy Ridge, was identified as a high-priority target based on prospective geology, proximity to the granite, and coinciding Be, W, Sn, Cu, and F soil geochemistry anomalies both on top, and down the north-facing slope of the ridge. Mapping and prospecting led to the

discovery of emerald and green beryl within quartz vein float and outcrop in the Shadow Zone. All crystals are hosted within quartz, with most occurring near the vein selvage. Quartz-tourmaline vein float, and tourmaline within schist, is found all along the base of that slope, up to the contact with a dome of granite boulders, making the slope a high potential area for further emerald mineralization. The south-facing slope of Howdy Ridge is also considered a high-potential region, since vein orientation suggests continuation of the veins through to the lower sections of that slope.

Located directly across the ridge from Howdy Bowl, and the white beryl found there, unit DF on the Southern Slopes has a high potential for hosting emerald mineralization.

SAMPLING METHOD AND APPROACH

Soil, rock and drill core were shipped during the field season to ALS Chemex located at 212 Brooksbank Avenue, North Vancouver, British Columbia, V7J 2C1 for geochemical analysis. Chain of custody reports were transmitted with shipments to ensure against diversion and permit detection of tampering of geochemical samples.

Soil samples were packaged in kraft bags, dried and packaged for shipment. Rock and sawn drill core samples were packaged in heavy plastic bags with cable ties, and the packaged in rice bags for shipment. The material was then removed from site via single-engine airplane direct to Whitehorse. From there, it was transported via Air Canada Cargo and delivered by a registered courier for ALS Chemex directly to the Vancouver office of ALS Chemex.

Analytical protocols for soil and rock lithogeochemistry utilize the ME-MS61 method for 47 elements using four acid dissolution. Duplicate and replicate samples were included as an integral part of the True North QC/QA program.

Sample Preparation, Analyses and Security

All of the emeralds that the author observed during the 2004 field season were consistent in colouration, and visually equivalent to emeralds witnessed in float, outcrop and drill core. There is no evidence of any sample blending, contamination or misrepresentation. In the author's opinion, True North's sample collection, sample processing, and security measures were adequate for 2004.

Data Verification

The author has supervised all aspects of the geological and sample processing carried out during the 2004 field program, and during the compilation of information between September 2004 and May 2005, and has no rationale whereby any of the contained methodologies and data will not withstand the highest levels of scrutiny.

Adjacent Properties

No significant discussion of adjacent properties is deemed appropriate for this report given the paucity of emerald discoveries elsewhere in the Finlayson district.

Mineral Processing and Metallurgical Testing

Formal mineral processing testwork was carried out only during 2003 in parallel with the principal mini-bulk sampling operations underway at the pilot processing facility at Tsa da Glisza. The results of preliminary density and magnetic separation testing indicate that True North may be able to upgrade gemstone concentrates through the removal of waste material by DMS followed by dry magnetic separation; and to quickly separate commercial versus non-economic populations of emerald.

Mineral Resource and Mineral Reserve Estimates

To date, no mineral resource or mineral reserve have been identified or defined on the Tsa da Glisza property.

Other Relevant Data and Information

No other relevant data or information have been considered for inclusion in this report.

Interpretation and Conclusions

The 2004 diamond drilling program has explored successfully the subsurface potential of the Summit Zone on Regal Ridge and also completed a Phase 1 program of the Shadow Zone on Howdy Ridge for emerald mineralization. The results have confirmed the continuity of Summit Zone emerald mineralization to depth from veins identified at surface, identified new areas of potential emerald mineralization and returned eight intersections with visible emerald in drill core. Analysis of 2002-2004 Summit Zone drill core has identified 219 intervals with the geological potential to host emerald mineralization including the eight intersections shown to contain emeralds in drill core. The recovery of emerald in drill core itself is considered a rare event and their presence will contribute vital information relating to the continuity of emerald mineralization.

Geochemical analysis continued to identify correlation of emerald mineralization with elevated levels of a greisen-type suite of elements including Be, Sn, W, Bi, Cu and a suite of other minor to trace base metal elements. The geochemical discrimination diagrams indicate the presence of stacked anomalies though the spatial distribution associated with known emerald mineralization suggests that property scale zoning influences the degree of correlation between individual and multiple elements.

The 2,533 tonne mini-bulk sample program, including samples from 2003 and 2004, has returned a total of 38.8 kilograms of emerald rough. The average grade data are consistent with numerous operating mines in southern Africa and South America.

The prospecting discovery, named the Shadow Zone on Howdy Ridge, included very high grade samples containing up to 10% emerald mineralization, and opened up another potentially large ridge for follow-up exploration in 2005.

The positive results of the 2004 program from prospecting, soil sampling, mapping, mini-bulk sampling and pilot processing holds promise for further advancement of the Tsa da Glisza Project during 2005.

RECOMMENDATIONS

The 2005 exploration will focus on the numerous targets generated by the 2004 drilling and trenching programs, and plans to evaluate lateral and vertical projections from drill hole intercepts particularly those with visible emerald and those displaying thick zones of alteration consistent with the presence of emerald in surface samples.

- The trenching program will be expanded using additional equipment and personnel including more senior and junior geologists to observe and examine the exploration trench samples and mini-bulk samples for the presence of coarse visible emerald; all operating emerald mines recover significant proportions of the weight and values of emeralds at the mining face.

- Detailed prospecting, and geological and structural mapping of the Regal Ridge proper, prospecting of several areas of the Property including the airstrip ridge, east toward the Kel occurrence, south and southeast of the Howdy Ridge discovery is planned. Infill soil geochemistry will cover areas around the airstrip ridge, West vein, and Caribou Bowl.

- Re-logging of the 2002-2004 drill core will focus on alteration and structural features.

- Additional changes to the process plant and increased production rates using a 24/7 schedule over the field season is expected to permit sampling of up to 10,000 tonnes of mini-bulk samples from targets on the Summit Zone, West vein, Shadow Zone and other targets undergoing evaluation before and during the field season.

- The 2004 program identified numerous drill and trench targets which will explore depth and lateral potential to the tonnage. Of prime importance,

trenching targets include the areas near DDH04-16, 32, 44, 47, 48, 53, 57, 59 and 62 to extend projections from drill intersections to the west and northwest of the ridge crest, and from DDH04-47 and 48 northeast and downslope to Area 10 identified by Expatriate in 1998 and 1999 as no significant mapping, prospecting, trenching or drilling has explored these areas. Detailed mapping and prospecting will accompany the trenching programs particularly in the eastern bowl of Regal Ridge.

- Drill holes have been proposed to provide infill information in areas of widely spaced holes with highly prospective terrain defined by previous trenches and 2004 drilling specifically adjacent to DDH 16, 35, 38, 44, 53, 57, 58, 59 and 62 exploring the Far West and West veins, extensions of the Southwest and Mattscar veins, and adjacent to Areas BG and 14.

- Deepening of several drill holes from 2004 has been proposed; specifically DDH04-35, 38, 45 and 47.

- Additional trenching oriented EW across the strike of the ridge will address targets adjacent to the wash plant below Areas 14, 51 and BG. Also, the high-grade emerald shoot discovered along the Southwest vein which lies along the trace to surface of underground mining rounds 8 through 13. Each of the known vein systems identified on the Property must be systematically sampled from multiple sites, with at least one hundred tonnes collected at each site.

- Geologic mapping of the Regal Ridge property identified several new areas with high potential for emerald mineralization and additional surface exploration including detailed prospecting will be conducted. In particular, the addition of new areas of unit DF, the most prospective host rock for emerald-bearing quartz-tourmaline veins, and the presence of white beryl in veins near the granite contact, expand the region of high potential for emerald mineralization.

- Additional work is planned on adjacent and satellite properties using the information developed during the 2003-2004 geological and geochemical programs.

◆ Additional interpretive work is planned using Landsat, ASTER, hyperspectral and similar images to better define the effects of major and minor structural lineaments on the distribution of prospective host rocks and potential emerald mineralization.

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STATEMENT OF QUALIFICATIONS

I, James Gregory Davison, residing at 921-7th Street, Montrose, British Columbia, Canada, V0G 1P0 do hereby certify that:

1. I am a Professional Geologist registered and licensed with the Association of Professional Engineers and Geologists of British Columbia, Member # 29630, and with the Association of Professional Geoscientists of Ontario, Member #0709, both in good standing through 2005. I meet the requirements of a "Qualified Person" as outlined in National Instrument 43-101.

2. I graduated from Dalhousie University in Halifax, Nova Scotia, Canada in 1979 with an Honours B.Sc. in Geology and from Brock University in St. Catharines, Ontario, Canada in 1984 with a M.Sc. in Geological Sciences.

3. I have practised my profession continuously since 1979. I am currently a self-employed contract exploration geologist, mineralogist, process mineralogist and managing director of Davison and Associates.

4. I am a Senior Associate Mineralogist with Watts, Griffis and McOuat Limited, a firm of consulting geologists and engineers, which has been authorized to practice professional engineering by the Professional Engineers Ontario since 1962.

5. I am currently a Core Member of the Prospectors and Developers Association of Canada, a member of the Canadian Institute of Mining and Metallurgy, and a member of the Society for Mining, Metallurgy and Exploration and was a Fellow of the Geological Association of Canada for 20 years.

6. I acted in the role of Project Manager with respect to the True North Gems Inc. 2004 exploration project, and currently under contract as Project Manager for 2005. Additionally, I was appointed as an officer and Vice-President Exploration of True North Gems Inc. effective June 1, 2005.

7. I am the author of this report entitled ***2004-2005 Assessment Report for the GOAL Claims, Yukon Territory, Canada*** and it is based on data supplied to me by True North Gems Inc. and information collected from previously published sources.

8. I have been actively involved in gemstone exploration, mine development and mining operations since 1988 in Canada, United States of America, Guatemala, Brazil, Colombia, South Africa, Lesotho, Namibia, Venezuela and Russia.

9. Neither I nor any affiliated entity of mine, have earned the majority of our income over the preceding three years from True North Gems Inc. or any associated or affiliated companies. I earned the majority of my income from True North Gems Inc. since May 2004.

10. I have not worked on these properties prior to May 2004.

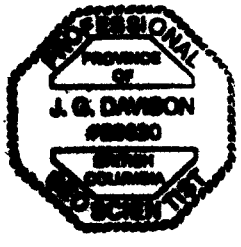
11. I have worked on the GOAL claims - Tsa da Glisza (Regal Ridge) property - from May 2004 to present and I have been involved with the initial collection or field preparation of the samples that are the focus of this report since May 2004.

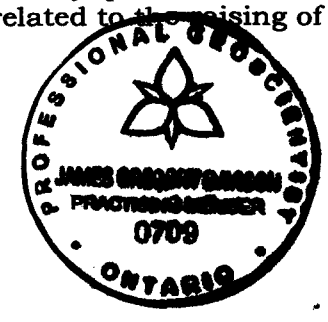
12. I have read the NI 43-101 and Form 43-101F1 and have prepared the technical report in conformity with generally accepted Canadian mining industry practice.

13. I am not aware of any material fact or material change with respect to the subject matter of the technical report which has not been reflected in the technical report, the omission to disclose which makes the technical report misleading.

14. This report may be utilized for the development of the property provided that no portion is used out of context in such a manner as to convey a meaning that differs from that set out in the whole.

15. Consent is hereby given to True North Gems Inc., to use or reproduce this report or any part of it for the purposes of development of the property, or related to the raising of funds.





Whitehorse, Yukon Territory
September 12, 2005

James Gregory Davison, M.Sc., P. Geo.
Vice-President Exploration, Project Manager
True North Gems Inc.

CONSENT OF AUTHOR

I, James Gregory Davison, residing at 921-7th Street, Montrose, British Columbia, Canada, V0G 1P0, do hereby consent to the filing of the written disclosure of the technical report entitled "2004-2005 Assessment Report for the GOAL claims, Yukon Territory, Canada " and dated September 12, 2005, and any extracts from the technical report, and to the filing of the technical report with the appropriate securities and regulatory bodies.

I also certify that I have read the written disclosure being filed and I do not have any reason to believe that there are any misrepresentations in the information derived from the technical report.

Dated this 12th day of September, 2005.

Signature of Qualified Person

James Gregory Davison

Name of Qualified Person

ILLUSTRATIONS

ILLUSTRATION 1. TSA DA GLISZA PROJECT CAMP

ILLUSTRATION 2. OVERVIEW OF TSA DA GLISZA PROJECT SITE DEVELOPMENT

ILLUSTRATION 3. 2004 DIAMOND DRILLING ON WEST VEIN

ILLUSTRATION 4. PORTABLE DRILL RIG ON DDH04-47 IN THE SUMMIT ZONE

ILLUSTRATION 5. DISCOVERY OF EMERALD IN DRILL CORE DDH04-44

ILLUSTRATION 6. 2004 PROCESS PLANT SCREEN UPGRADES

ILLUSTRATION 7. STONE SORTERS IN UPGRADED SECURE AREA OF PROCESS PLANT

ILLUSTRATION 8. EXCAVATING MINI-BULK SAMPLE FROM 2004 MATTSCAR TRENCH

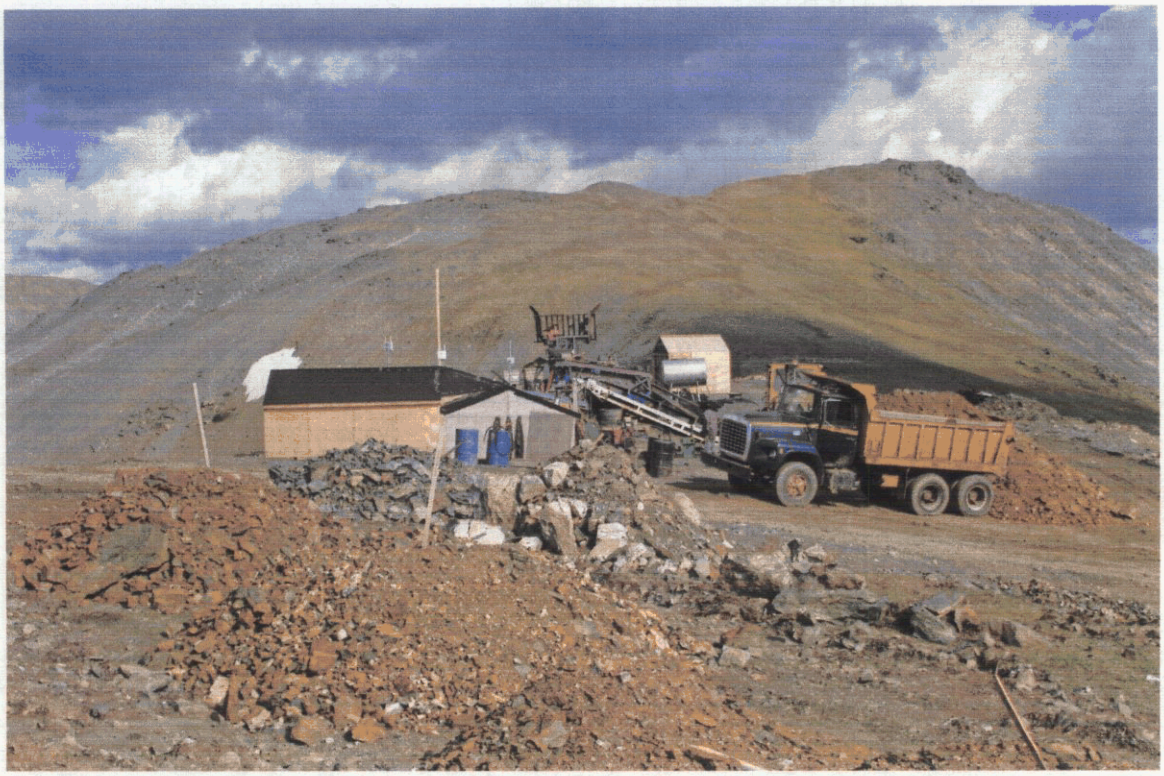


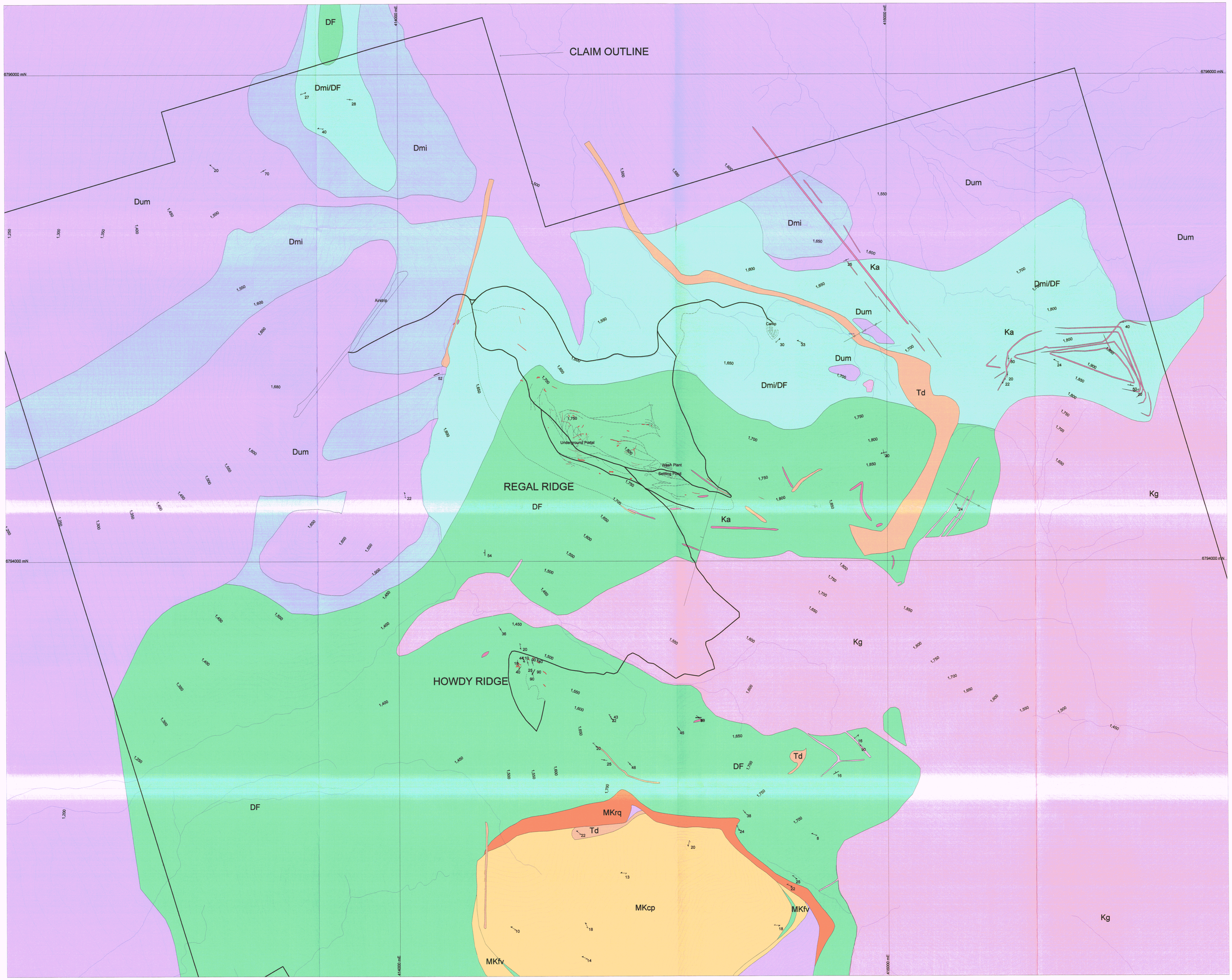
ILLUSTRATION 9. DELIVERY OF MINI-BULK SAMPLES TO UPGRADED PROCESS PLANT

ILLUSTRATION 10. AREA OF HIGH GRADE POCKET OF EMERALD EXPOSED DURING 2004 MINI-BULK SAMPLING (BELOW 2003 MATTSCAR TRENCH)

ILLUSTRATION 11. DISCOVERY BOULDER OF EMERALDS IN QUARTZ-TOURMALINE FROM SHADOW ZONE

APPENDICES

APPENDIX 1 – PROPERTY GEOLOGY



GEO
UTM 11° 32'E MAG
25° 25'

LEGEND

- Q Quaternary Overburden
- Td Feldspar porphyry dyke/sill
- Kg, Ka Biotite muscovite Granite, Aplite Dyke
- Kq, Kqt, Kl Quartz, quartz-tourmaline, tourmaline veins
- Mkfv Kudz Ze Kayah felsic metavolcanics, biotite dominant schist
- Mkcp Carbonaceous phyllite
- MKrq Rusty weathered quartzite
- DF Fyre Lake metavolcanics, plagioclase-chlorite schist to phyllite
- DF1 weak alteration
- DF2 Moderate Alteration
- DF3 Strong Alteration
- Dmi/DF Interlayered actinolite-plagioclase-biotite leuco-gabbro and chlorite schist
- Dmi Pyroxenite to actinolite-plagioclase-biotite leuco-gabbro
- Dum Red-brown weathering, moderately serpentinized Ultramafic

STRUCTURE

- 50 Contact Orientation
- 18 Vein Orientation
- 33 Foliation
- 52 Fault
- Strike Slip Fault

Cross-Section Line

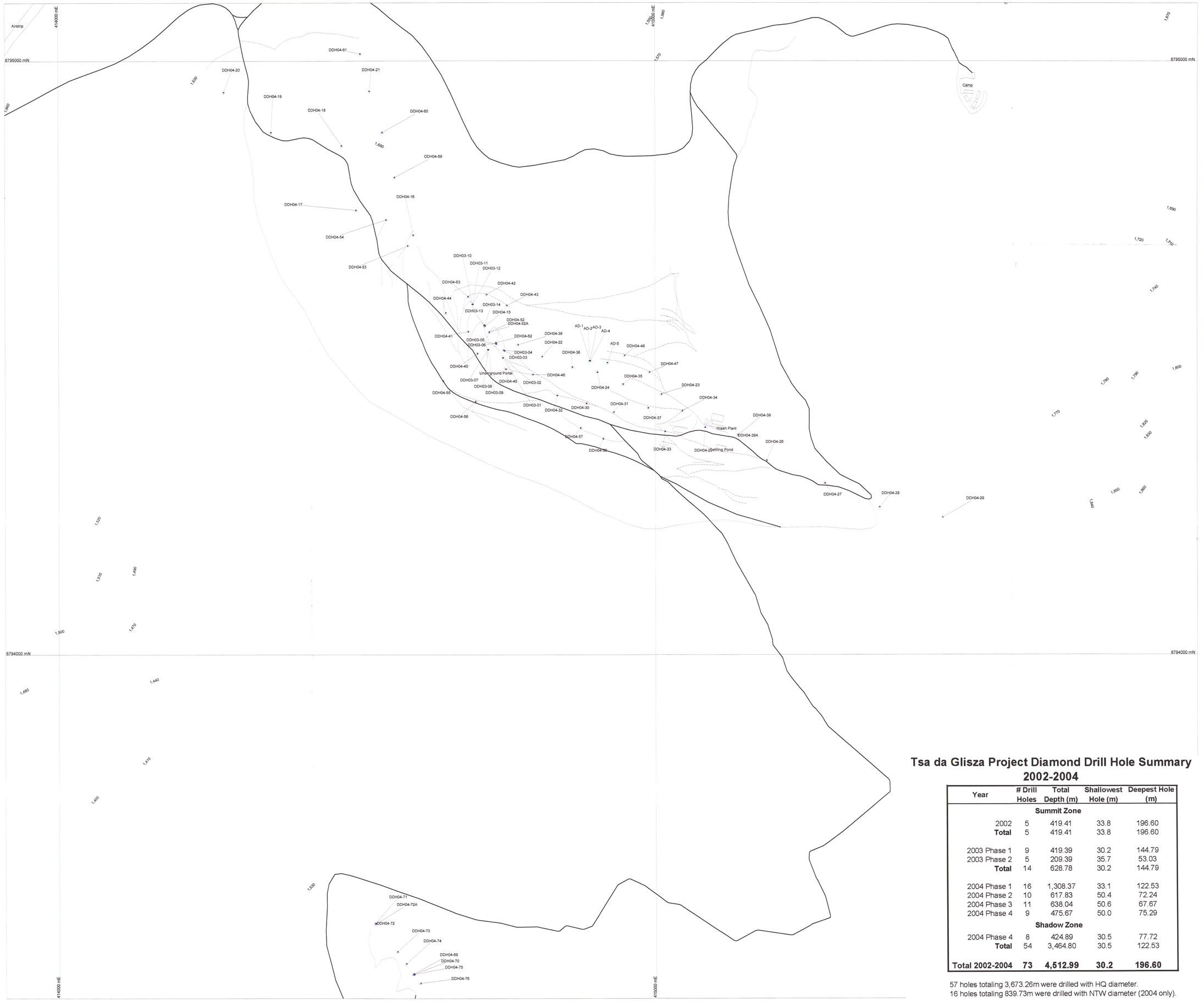
094540

True North Gems

	Taa De Gliiza Project
Date: 16/9/2004	**Surface Plan**
Author: HN	**PROPERTY GEOLOGY**
Office:	
Drawing: BP	
Scale: 1:5000	Projection: UTM Zone 9, Northern Hemisphere (WGS 84)

50 0 50 100
metres

APPENDIX 2 – DRILL LOCATION MAP



Tsa da Glisza Project Diamond Drill Hole Summary 2002-2004

Year	# Drill Holes	Total Depth (m)	Shallowest Hole (m)	Deepest Hole (m)
Summit Zone				
2002	5	419.41	33.8	196.60
Total	5	419.41	33.8	196.60
2003 Phase 1	9	419.39	30.2	144.79
2003 Phase 2	5	209.39	35.7	53.03
Total	14	628.78	30.2	144.79
2004 Phase 1	16	1,308.37	33.1	122.53
2004 Phase 2	10	617.83	50.4	72.24
2004 Phase 3	11	638.04	50.6	67.67
2004 Phase 4	9	475.67	50.0	75.29
Shadow Zone				
2004 Phase 4	8	424.89	30.5	77.72
Total	54	3,464.80	30.5	122.53
Total 2002-2004	**73**	**4,512.99**	**30.2**	**196.60**

57 holes totaling 3,673.26m were drilled with HQ diameter.
16 holes totaling 839.73m were drilled with NTW diameter (2004 only).

Legend

- AD-1 (2002 Drill Holes)
- DDH03-01 (2003 Drill Holes)
- DDH04-15 (2004 Drill Holes)

094540

True North Gems

Tsa Da Glisza Project

Surface Plan

DRILL HOLE LOCATION MAP 2002-2004

Date: 15/04/2005
Author: JGD, TS
Drafting:
Drawing: BP
Scale: 1:2000
Projection: UTM Zone 9 (NAD 83)

25 0 25 50
metres

APPENDIX 3 – DRILL LOGS 2004

DDH04-15
Az 152/ Dip -45
414715E/ 6794553N
Elevation: 1763 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: June 6, 2004
Date Finished: June 7, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	1.52			*Casing*
1.52	45.70	**Chlorite Schist:**		
		4.80	4.92	qtz vein with less 0.5% tourm
				blebs cpy @ contact
				upper and lower contacts undulating
				no tourm/chlsch alt'n on either side of vein
		5.00	10.04	chlsch with 3-6 cm band of tourm
				bands undulating but tend to be @ 55 deg tca
		10.04	10.33	chlsch/tourm alt'n
		10.33	10.53	rusty chlsch/tourm alt'n
		10.53	**10.72**	**qtz/tourm vein**
				tourm possibly later
				upper and lower contacts undulating
				tourm massive with some xtals, approx 55% of vein
		10.72	11.20	rusty chlsch/tourm alt'n
		12.15	12.97	rusty chlsch/tourm alt'n
				tourm massive to xtal; in places it looks like ink stains of tourm; 20% tourm
		12.97	14.00	chlsch/tourm alt'n
				1%tourm, tourm massive
		14.00	14.56	chlsch/tourm alt'n
				tourm 3%
				small 2 cm qtz vein with tourm on margins
		15.11	**16.40**	**small qtz/tourm vein ranging in size from 5.8 cm**
				minor amounts surrounding veins
				tourm 80-90%
		16.40	23.26	chlsch with stringers of tourm with random orientation
				21.33 bleb of cpy
		23.26	24.48	chlsch/tourm alt'n
				same as in previous section
				qtz veinlets mm to 0.5cm
				tourm along selvedges

DDH04-15
Az 152/ Dip -45
414715E/ 6794553N
Elevation: 1763 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: June 6, 2004
Date Finished: June 7, 2004

From (m)	To (m)	From (m)	To (m)	Description
		24.48	**24.54**	**qtz/tourm vein**
				contact irregular and undulating; 75% tourm
		24.73	36.90	chlsch/tourm alt'n
				27.61-27.64 small scale folding
				qtz veins mm -3cm thick throughout with random orientations
				tourm at selvedges along some veins
				tourm ranges form ink blots to 0-5%
				34.39-35.70m veins are rusty
		39.64	40.43	biotite/phlogopite rich chlsch
				tourm xtals also present (minor amounts)
				40.08 fol of biotite ~60 deg tca
		40.43	45.70	blebs of tourm- usually ink-like throughout
45.70		**E.O.H.**		**E.O.H.**

DDH04-16
Az N/A/ Dip -90
414594E/ 6794707N
Elevation: 1714 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: June 8, 2004
Date Finished: June 9, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	1.52			Casing
1.52	50.90	**Chlorite Schist:**		
		1.59	3.58	weak chlsch/tourm alt'n; ink spot-like
		3.58	**4.18**	**qtz vein with tr tourm**
				from 3.58-3.68 qtz veins
				from 3.58-3.68 multiple qtz veins up to 1cm thick
		4.18	6.09	chlsch/tourm alt'n
				mainly felted/ink stained tourm; wk alt'n
			7.00	biotite/phlog mica fol 80-85 deg tca
			7.50	biotite/phlog mica fol 70 deg tca
			8.80	biotite/phlog mica fol 75 deg tca
		9.54	11.62	mod chlsch/tourm alt'n
				10.37-11.62m decr tourm, incr mica biotite/phlog
		11.62	12.85	qtz vein
				rubbly; largest section 9 cm; fracture surfaces have rust coating
				less 1% tourm (~0.5)
		12.85	17.20	chlsch/tourm alt'n
				13.28-13.38m qtz vein with minor tourm (~0.5%); tourm along vein selvedges; 1-2cm tourm
				from 16.21-17.20m tourm in chlsch decreases to 0.5%
		17.20	17.40	rusty chlsch/tourm alt'n
				tourm incr to 5%
		17.40	**20.57**	**qtz/tourm vein**
				from 19.75-19.93m chlsch with rusty fracture surfaces
				sections of vein have up to 50% tourm while others have less than 1%
				17.40-18.60m qtz/tourm vein up to 50% tourm
				18.60-19.44m qtz/tourm vein up to 50% tourm
				all others section have less then 1% tourm
		20.57	25.40	chlsch/tourm alt'n
				20.57-21.98m alt'n had 0.5-1% tourm throughout
				21.98-22.07m qtz vein no tourm
				22.07-23.41m alt'n has 20-40% tourm (xtal and felted/ink-stained like)

DDH04-16
Az N/A/ Dip -90
414594E/ 6794707N
Elevation: 1714 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: June 8, 2004
Date Finished: June 9, 2004

From (m)	To (m)	From (m)	To (m)	Description
				23.41 - 23.58m minor qtz tourm veins; veins range in size from mm to 3cm
				23.58 -24.45m alt'n as above
				24.45-25.40m biotite/phlog rich chlsch woth 0.5% tourm
		25.92	28.55	chlsch/tourm alt'n
				mostly felted/ink-stained tourm
				27.07-27.32m rusty fracture coating
		28.55	**28.72**	**qtz/tourm vein**
				40% qtz/60% tourm
		28.72	29.81	chlsch/tourm alt'n
			28.89	Small Scale fold
		29.81	33.40	fol of biotite/phlog ~80-85 deg
		31.03	31.08	qtz vein- no tourm
		33.28	33.40	qtz vein- no tourm
		33.97	34.38	rusty chlsch
		34.38	34.56	rusty qtz vein no tourm
		34.98	35.15	rusty qtz vein no tourm
		35.15	35.66	rusty chlsch
		45.43	45.95	biotite/phlog rich chlsch
				fol of biotite/phlog stringers varies but averages 85-90 deg tca
		46.50	46.80	fol bio/phlog 45-50 deg tca
		47.26	47.36	2 qtz veins in chlsch No tourm
		47.90	48.00	biotite/phlog rich chlsch
50.90		**E.O.H**		**E.O.H**

DDH04-17
Az N/A/ Dip -90
414499E/ 6794748N
Elevation: 1683 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: June 10, 2004
Date Finished: June 12, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	1.52			Casing
1.52	82.23	**Chlorite Schist:**		
		4.94	6.15	weak ink stained tourm alt'n
				qtz stringers throughout up to 2.5cm thick; no tourm veins, veins have various orientations
		11.30	12.12	small qtz veinlets up to 2mm thick
				11.38-11.47m qtz veins are folded and undulating
				11.47 -12.12m veins have orinetation of 60 -70 deg tca; @ 11.67m 70 deg tca; @ 12.09m 60 deg tca
		11.35	13.37	fracture surfaces coated with qtz, gypsum
		14.90	15.20	rusty qtz veinlets (4 in this section); range in size from 1-2 cm
		23.35	25.00	rusty schist with qtz stringers
		24.38	24.74	qtz veins; concentration throughout up to 3 cm
				no tourm to trace at 24.32m
		25.00	41.29	chlsch with minor qtz veins of various thickness and orientation
				mm to 5 cm thick; no tourm
		41.29	41.55	rusty chlsch with minor tourm, mm size qtz vein throughout
		42.66	44.19	mica (phlog/biotite) rich chlsch
		44.67	49.95	chlsch with gypsum/qtz along fracture coatings
		49.95	53.30	colour of chlsch goes from med green to dark green....compositional differenence; gypsum/qtz along fracture planes
		53.30	54.00	rubbly broken chlsch with clay fault
		54.00	58.02	speckled chlsch...dark/med green chlsch
		58.48	60.12	incr mica (phlog/biotite) up to 2-3%
		60.47	**60.79**	**qtz tourm vein**
				no distinct contact...undulating
		60.79	61.36	rusty chlsch mod tourm
		65.00	76.70	speckled chlsch as before
				qtz veins up to 2cm throughout...no tourm
		78.64	78.87	qtz vein with up to 1% tourm
				upper contact 90 deg tca; lower contact 30 deg tca
82.23	91.07	**porphyry sill**		med grey green pyroxcene feldspar porphyry sill

DDH04-17
Az N/A/ Dip -90
414499E/ 6794748N
Elevation: 1683 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: June 10, 2004
Date Finished: June 12, 2004

From (m)	To (m)	From (m)	To (m)	Description
				feldspar ave 0.5cm but range from mm to 1cm
				upper and lower contacts gradational with cooling/bleached margins
				82.77-84.24m and 89.50-90.65m red alt'n halo over feldspars
91.07	101.19	**Chlorite Schist**		chlsch same as the top of hole
				qtz veins throughout up to 1 cm
				95.17-95.49m rusty qtz vein with bleached selvedges
		95.34	**95.36**	**qtz/tourm vein**
101.19		**E.O.H**		**E.O.H**

DDH04-18
Az N/A/ Dip -90
414473E/ 6794862N
Elevation: 1674 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: June 12, 2004
Date Finished: June 13, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	1.83			Casing
1.83	52.43	**Chlorite Schist:**		
		3.66	**3.80**	**qtz/tourm vien**
				chlsch on either side
				possibly a boulder/ovrburden as rock in either end is suspect
		7.83	22.54	light to med green chlsch with qtz veins (no tourm) that have random orientation, spacing and size (mm-2cm)
				8.53-8.67m gypsum/qtz veinlets (mm-1.5cm)
				11.28-11.67m small fault consisting of sand and poorly consolidated sand
				minor ink stained tourm stringers (mm in size) throughout
		22.54	24.38	sections of light green grey tourm biotite/phlogopite chlsch w/ qtz stringers throughout
		26.00	27.96	coarse grained chlsch incr biotite/phlog with minor tourm
		29.53	30.16	30.16 incr qtz stringers mm to 2 cm thick; various orientations
		30.16	33.68	interval of coarser gr chlsch as before
		33.68	40.84	fine gr moderately foliated chlsch with qtz stringers (mm-3cm)
				small mm size blebs-possibly albite
				increase mica (phlog/biotite)
				minor sulphides (po, cpy, py?) less 1%
				fol ranges from 65 deg tca (35.13m), 75 deg tca (35.21m), 80 deg tca (36.44m), 85 deg tca (36.70m), 40 deg tca (37.45), 55 deg tca (39.0m), 25-30 deg tca (40.50m)
		41.40	50.54	coarse gr phlog/biotite chlsch as above
				45.20-48.48m fault with rubbly broken core with clay gouge; some larger pieces of rock (up to 18 cm)
				48.69-50.21m rusty qtz veinlets, no tourm in veins; phlog/biotite/tourm in surrounding rock; random orientation
52.43		**E.O.H.**		**E.O.H.**

DDH04-19
AZ N/A/ Dip -90
414354E/6794884N
Elevation: 1650 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: June 13, 2004
Date Finished: June 14, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	3.66			Casing/overburden; some qtz boulders
3.66	50.90	**Chlorite Schist:**		chlsch as in previous sections
		9.00	9.10	periodic qtz veins of random orientation and size throughout; qtz vein with minor (0-5%) tourm in chlsch matrix; contact undulating
		16.28	16.61	fracture surfaces coated with gypsum/qtz film
		25.59	39.54	coarse gr chlsch w/ tourm; amphibole?; some mica (phlog and biotite)
				minor (less 1%) sulphides (po, cpy, py)
		28.89	28.96	minor qtz veining throughout; gypsum/qtz veining and fracture in fills
				intervals of finer gr chlsch up to 12 cm throughout
		39.45	50.90	fine gr chlsch with intervals up to 47cm long of coarser gr chlsch
				42.30-42.40m qtz vein contact sharp @ ~90 deg tca; no tourm
				45.31-46.33m fault with rubbly brown core and clay; some weakly consolidated chunks of rock
50.90		**E.O.H.**		**E.O.H.**

DDH04-20
Az N/A/Dip -90
414273E/6794948N
Elevation: 1631 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged by: Twila Skinner
Date Started: June 14, 2004
Date Finished: June 16, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	2.44			Casing
2.44	17.12	**Chlorite Schist**		chlsch; med grey green chlsch
		8.75	17.12	incr mica (phlog/biotite)
				minor qtz veinlets up to 2 cm ; various orientations and size
		15.13	17.12	incr mica (phlog/biotite) up to 20%
				fol from 13-17.12 varies but ranges from 60-70 deg tca
17.12	20.29	**Talc/Tremolite Alt'd ChlSch**		talc/tremolite alt'd chlsch
				light green grey colour
				upper and lower contact gradational/transitional
				xtals of tremolite/actinolite; long mm light to dark green
				minor sulphides (py;po)
				veinlets of various orientations and size (up to 0.5 cm); veins very soft and powder when scratched with knife....probably talc
				20.29 serpentine @ fracture surface; dark green and fiberous
20.29	33.07	**Chlorite Schist**		Chlsch
		24.00	25.35	Chlsch slightly darker green in colour and coarse grained
		25.86	27.94	qtz/gypsum/talc along fracture planes
		29.00	30.86	incr mica (phlog/biotite)
				undulating/random foliation
		31.70	32.12	light green grey chlsch
		32.65	33.07	dark greeen grey ultramafic
				veining up to 4cm; possibly talc (white in colour, very soft)
				qtz nodules surrounded by chlsch matrix throughout (up to 0.5 cm)
33.07	35.81	**Feldspar Porphyry**		feldspar porphyry as in previous hole
				upper contact sharp and 45 deg tca; lower contact slightly undulating but about 90 deg tca
				red alteration/staining/halo around feldspar at contacts
35.81	40.95	**Chlorite Schist**		chlsch as before
				fol ranges form 20-45 deg tca; 35 deg @ 36.09m; 20 deg @ 36.46m; 40-45 deg @ 36.66m; 30 deg 37.0m and fol ends at 39.45m
40.95	44.28	**Feldspar Porphyry**		feldspar porphyry as in previous section

DDH04-20
Az N/A/Dip -90
414273E/6794948N
Elevation: 1631 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged by: Twila Skinner
Date Started: June 14, 2004
Date Finished: June 16, 2004

From (m)	To (m)	From (m)	To (m)	Description
				upper contact at 50 deg tca; lower contact gradational
44.28	47.98	**Fault**		rubbly core with clay gouge, talc throughout
47.98	55.20	**Chlorite Schist**		Chlorite Schist with up to 10-15% chloritiod; black hard mineral with darker black halo surrouinding it; some twins, fish tails; could also be altered tourm (possible starolite); some talc
				small fault of broken rubble @ 53.56 m to 54.0m
				fracture surfaces contain some talc, minor sulphides (0.5%)
		55.20	62.29	chlsch as in previous sections, no obvious foliation, alternating sections of finer and coarser gr chlsch
		62.29	74.00	chloritiod rich chlsch as in previous sections
				72.26-72.98m chloritoid laths almost aligned @ ~ 80-90 deg tca and alternate with green soft mineral (possibly talc)
		74.00	80.55	chlsch as before @ 80.0-80.05m Ep vein
		80.55	86.12	chloritoid rich chlsch as in previous section
		86.12	87.48	chlsch fault with rubble and clay gouge
		87.48	89.68	light green grey chlsch with darker green chlsch throughout
		89.68	91.44	Chlsch- same as in previous section
91.44		**E.O.H.**		**E.O.H.**

DDH04-21
Az N/A/ Dip -90
41452E/6794950N
Elevation: 1679 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: June 21, 2004
Date Finished: June 24, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	1.88			Casing
1.88	122.52	**Chlorite Schist**		chlsch as before
		1.83	2.56	section of rusty qtz w/minor tourm along vein margins
				range in size from 1-6cm with various orientations
			2.68	blebs of sulphide- py
		8.33	**8.49**	**qtz vein w/ tourm along margins, contacts undulating**
		13.27	13.55	coarser gr chlsch with increased mica (biotite/phlog)
			13.42	bleb of cpy
		21.08	25.54	incr mica (biotie/phlog)
				variable to no foliation throughout
				at 21.26m 55-60 deg tca; 23.74m 60 deg tca
		29.91	30.20	qz vein, no tourm; 2cm of pulverized rusty chlsch, contacts irregular
		44.81	50.35	core very rubbly, large sections fractured // to core axis; see tech log
				45.98-46.09m blebs of scheelite in a rusty chlsch with minor (1%) tourm
		63.73	**63.87**	**rusty chlsch with tourm vein**
				tourm vein undulating in size but roughly 1cm thick; massive tourm
				very minor qtz (less 1%)
		64.00	64.60	qtz gypsum coating along fracture plane
		72.55	74.89	incr mica from less 1% up to 5%; 74.58-74.62m incr mica up to 40%
				incr tourm alt'n in section as well
		74.89	**76.34**	**rusty qtz tourm vein**
				upper contact undulating but averages 55-60%; lower contact 35 deg tca
				74.89-75.30 highest concentration of rusty schist
				40% tourm 55% qtz 5% chlsch
		88.70	89.81	chlsch fault w/rubbly core with minor clay gouge, mm to 5cm blocks of rubble
		94.00	95.71	chlsch fault same as above; very rubbly between 95.40-95.71m
		90.69	122.53	alternates from section of coarse and finner chlsch
				minor qtz blebs throughout
122.53		**E.O.H.**		**E.O.H.**

DDH04-22
Az N/A/ Dip -90
414808E/6794502N
Elevation: 1782 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Starte: June 24, 2004
Date Finished: June 26, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	1.52			Casing
1.52	93.57	**Chlorite Schist**		chlsch as before
		4.85	**4.93**	**qtz/tourm vein;scheelite present (less 1%) 70% qtz/30% tourm**
		5.83	**5.86**	**small qtz/tourm veinlets with scheelite (~1%)**
		5.86	6.38	rusty chlsch especially along fracture coating; minor amounts of tourm
		17.37	76.33	rusty chlsch especially along fracture coating; minor amounts of tourm
		22.00	**22.09**	**small qtz/tourm veinlets no scheelite; 50/50 qtz/tourm vein**
		22.20	24.77	incr mica (phlog/biotite); grains tend to have a rusty halo surrounding them
				tourm alt'n occurs here until 25.80m
		25.80	**26.29**	**qtz/tourm veinlets**
				veins have random orientation and size (ave size ~5cm); 40% tourm/60%qtz
		26.29	28.65	chlsch/tourm alt'n
		28.65	**28.72**	**qtz/tourm vein with tourm along margins 1%tourm/99%qtz**
		28.72	31.09	chlsch/tourm alt'n
		31.09	**31.13**	**qtz/tourm vein as above**
		31.13	32.86	tourm alt'n
		32.86	**33.23**	**qtz/tourm vein**
				60%tourm/40%qtz; incr micas (phlog/biotite), 1-5% scheelite @ 33.22-33.32m, small mm qtz/tourm vein folded, possible dome and basin style
		33.23	33.87	chlsch/tourm alt'n; mod tourm
		34.53	36.70	incr chlsch/tourm alt'n; mod tourm
		36.70	**37.03**	**tourm/qtz vein**
				mainly tourm (90%); qtz (10%); blebs/veinlets various sizes/orientations throughout; incr mica; trace scheelite to 5%
		37.03	41.00	chlsch/tourm alt'n;weak to mod
				37.90-38.24m incr mica (phlog w/minor biotite) up to 10-15%
				38.45-41.00 small mm-0.5cm blebs of qtz throughout; occur in group 4-6cm across
		43.48	43.87	chlsch/tourm alt'n, wk tourm
		43.87	**43.97**	**qtz/tourm vein**
				85% qtz/15% tourm; contacts irregular
		43.97	45.10	qtz/tourm alt'n; wk to mod tourm alt'n

DDH04-22
Az N/A/ Dip -90
414808E/6794502N
Elevation: 1782 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Starte: June 24, 2004
Date Finished: June 26, 2004

From (m)	To (m)	From (m)	To (m)	Description
		45.10	**45.65**	**qtz/tourm vein**
				70%tourm/30% qtz; 45.32-45.61 4-5% scheelite present
		45.65	46.09	chlsch/tourm alt'n
				incr mica (phlog?) up to 5%
		46.09	**46.70**	**qtz/tourm vein**
				50/50 qtz/tourm;scheelite present from 46.09-46.38m
				incr mica (phlog/biotite) in this section
				more tourm from 46.09-46.43; more qtz from 46.43-46.70m
		46.70	52.43	chlsch/tourm alt'n ranges from wk to mod tourm
				47.20-50.70m incr mica (phlog?) fol various orientations from sub// tca to undulating and folded throughout
				51.84-52.20m fracture surfaces coated with qtz/gypsum that has some rust in it
		52.43	52.93	qtz vein (some gypsum) with minor tourm
				veins range in size from mm to 6cm; various orientation
				minor scheelite throughout section
		52.93	59.18	chlsch/tourm alt'n; wk to mod tourm
		59.18	59.54	rusty chlsch alt'n
				59.40-59.54m incr tour, minor qtz blebs
		59.54	60.96	chlsch/tourm alt'n; wk tourm
		60.96	**62.48**	**qtz tourm vein**
				highly broken up; rubbly (pieces cm -15cm)
				40%tourm/60%qtz; contacts indistinguishable due to fractures of core
		62.48	64.97	chlsch/tourm alt'n, wk tourm
		64.97	**65.04**	**small qtz/tourm vein**
				90%qtz, 10%tourm; contact undulating; incr mica on either side of contact (probably phlog w/ minor biotite
		65.04	65.72	chlsch/tourm alt'n
				wk atl'n; 65.68-65.72m incr mica (phlog/biotite)
		65.72	**66.60**	**qtz/tourm vein**
				50/50 qtz/tourm; scheelite 1-2% present throughout; margins of zone contain incr phlog and biotite

DDH04-22
Az N/A/ Dip -90
414808E/6794502N
Elevation: 1782 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Starte: June 24, 2004
Date Finished: June 26, 2004

From (m)	To (m)	From (m)	To (m)	Description
		66.40	68.50	chlsch/tourm alt'n
				minor qtz veins (very minor tourm along margins)
		68.50	**69.56**	**qtz/tourm vein same as one at 65.72m**
				incr mica throughout; up to 3% scheelite throughout
		69.56	73.70	tourm chlsch alt'n
				69.56-71.23m -strong tourm, 71.23-73.70m- wk tourm
				71.23-72.53m fracture surfaces gypsum/qtz
		73.70	**74.17**	**qtz/tourm vein**
				40%tourm/60%qtz, no scheelite, no incr mica
		74.17	75.46	chlsch/tourm alt'n, wk tourm
		76.10	77.94	incr ~1% mica (phlog/biotite) fol varies but is sub // to CA
		84.02	84.43	rods stuck-redrill/cave in; broken qtz/tourm pebbles
		88.47	93.57	gypsum/qtz fracture coating
93.57		**E.O.H.**		**E.O.H.**

DDH04-23
Az N/A/ Dip -90
415010E/6794441N
Elevation: 1801 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: June 26, 2004
Date Finished: June 27, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	2.74			Casing
2.74	33.13	**Chlorite Schist**		chlsch as before
				grey green with qtz vein at various orientations and thicknesses (mm-5cm thickness); veins have no tourmaline present
				rocks are highly broken up throughout whole section (mm to 18cm-most under 10cm)
				minor amounts incr mica (phlog/biotie) sporatically throughout
		28.23	**28.33**	**rusty qtz/tourm vein (60% qtz/40%tourm)**
				rust along fractures; no scheelite
				tourm mostly along selvedges but also in qtz vein
		28.33	30.43	chlsch w/tourm alt'n
		30.43	**30.57**	**qtz/tourm vein**
				50/50 qtz/tourm; rust present at selvedges, very minor (less 1% scheelite); no chlsch/tourm alt'n after veining
		32.38	33.13	fractures are coated in rust
33.13		**E.O.H.**		**E.O.H.**
				Note: Hole stopped because rods got stuck and had to be blasted out

DDH04-24
Az N/A/ Dip -90
414903E/6794479N
Elevation: 1801 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 1, 2004
Date Finished: July 7, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	2.13			Casing
2.13	93.86	**Chlorite Schist**		chlsch as before
				qtz and qtz/tourm veining througout
				scheelite is present in some qtz/tourm veining
				core is highly fractured/broken in places....minor faults?
		1.93	**2.86**	**qtz/tourm vein**
				80%qtz /20% tourm; no scheelite present; rusty sections throughout (less 1%)
		8.25	9.52	incr micas (phlog/biotite) up to 1%
		9.52	9.93	chlsch/tourm alt'n
				rusty fracture surfaces; fractures surfaces also contain gypsum/qtz fracure fillings
		10.00	10.20	rusty chlsch/tourm alt'n
				1-3% incr mica (phlog/biotite)
		10.20	18.70	rusty chlsch sporatic throughout section
				micro veinlets of qtz/tourm from 11.0-11.115m
		15.92	16.24	chlsch/tourm alt'n (less 1% tourm)
		16.24	16.92	chlsch w/ incr phlog w/ random orientation
		16.92	**17.07**	**rusty qtz/tourm vein**
				70% tourm/30%qtz; upper and lower contacts undulating
		17.07	21.81	incr mica (phlog/biotite) chlsch
		21.81	**21.87**	**qtz/tourm vein**
				50/50% qtz/tourm
		25.05	**26.08**	**rusty qtz/tourm vein**
				85%tourm/15% qtz; scheelite 1-3% from 25.19-25.94m; upper and lower contact irregular
		26.08	30.16	rusty chlsch w/ incr mica and tourm alt'n
				28.10-28.68m tourm alt'n up to 5%
		30.16	34.53	possible fault; highly broken core and gouge
		30.65	31.09	rusty chlsch
		31.09	**31.20**	**rusty qtz/tourm vein**
				irregular contacts, ~1% scheelite in section
		34.90	35.40	incr mica; rusty chlsch with very minor tourm
		35.40	35.47	qtz vein No tourm, contacts irregular

DDH04-24
Az N/A/ Dip -90
414903E/6794479N
Elevation: 1801 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 1, 2004
Date Finished: July 7, 2004

From (m)	To (m)	From (m)	To (m)	Description
		36.50	38.10	fault with gouge; rock fragments; mm-2cm in size
		38.53	39.54	chlsch w/ incr phlog w/ random orientation
				39.36-39.46 po/cpy present (less 1%)
		40.23	40.32	sand and rock frag-possible fault
			40.93	belbs of cyp
		41.20	44.19	incr mica (phlog/biotite) chlsch
				fol 70deg tca @ 42.0m; 85-90 deg tca @ 42.0-43.83m; 45-50 deg tca @ 43.83-44.19m
		44.19	**44.40**	**qtz/tourm vein**
				less 1% scheelite; 50/50% qtz/tourm; contacts undulating
		49.19	**49.37**	**qtz vein with very minor tourm**
				upper contact ~75 deg tca; lower contact irregular
		49.40	**49.54**	**qtz/tourm vein**
				~1% scheelite present; 50/50 qtz/tourm, minor rust alt'n present
		49.54	51.00	mica rich chlsch, fol @ 50.20m is 45-50 deg tca
		51.63	**51.74**	**rusty qtz/tourm vein**
				70/30% qtz/tourm
		52.04	52.43	rusty chlsch- highly bunged up, possible rehealed fault
				clasts of micro veinlets (mm in size) w/ various orientations
				52.36-52.40m qtz/tourm vein; 50/50 qtz/tourm
		54.25	55.30	qtz/gypsum/feldspar? vein highly altered
		55.55	55.68	qtz/gypsum/feldspar? vein highly altered
		56.60	56.90	mica fol 45-50 deg tca
		62.17	67.67	chlsch/tourm alt'n
		67.67	**68.25**	**qtz/tourm veinlets in chlsch/tourm alt'n**
		68.25	69.28	chlsch/tourm alt'n
		69.28	**70.09**	**qtz/tourm veining w/ chlsch/tourm alt'n**
				60%qtz/ 40%tourm
		70.09	73.20	chlsch tourm alt'n
		73.20	**73.26**	**qtz/tourm vein**
				70% qtz/ 30% tourm
		73.26	75.25	chlsch/tourm alt'n

DDH04-24
Az N/A/ Dip -90
414903E/6794479N
Elevation: 1801 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 1, 2004
Date Finished: July 7, 2004

From (m)	To (m)	From (m)	To (m)	Description
		75.25	**75.97**	**qtz/tourm vein**
				75% tourm/ 25%qtz; contact irregular
		75.97	76.20	rusty mica (phlog/biotite) rich chlsch
		76.20	**76.48**	**qtz/tourm vein**
				50/50 qtz/tourm; 76.20-76.30m- 99%qtz; 76.30-76.48m -90% tourm
		76.48	78.29	chlsch/tourm alt'n
		78.29	**79.01**	**qtz/tourm vein**
				intermixed with chlsch/tourm alt'n; most of veining is from 78.33-78.58m
				70%qtz/30% tourm; 78.58-79.01 qtz/tourm veins throughout chlsch/tourm alt'n
		79.01	80.10	chlsch/tourm alt'n
		80.10	**80.22**	**qtz/tourm veinlets in chlsch/tourm alt'n**
		80.77	93.86	chlsch as before but with an increase in qtz/carb veining; random orientation and size (mm-9cm)
				83.0-93.86m chlsch changes from light green to dark green
				89.61-93.86m- fault, core highly broken with gouge and possible rehealed segments
93.86		**E.O.H.**		**E.O.H.**

DDH04-25
AZ N/A/ Dip -90
415085E/6794384N
Elevation: 1791 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 17, 2004
Date Finished: July 19, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	2.13			Casing
2.13	**67.03**	**Chlorite Schist**		chlsch as before
				strain very wk; grey green colour;qtz veinig throughout mm-2cm in size w/ random orientation
		8.71	9.59	incr mica (phlog/biotite); fol ranges from 70-75 deg tca
		10.69	10.71	rusty sch w/ tourm band
		14.06	14.13	chlsch clay gouge
		19.49	**19.56**	**qtz/tourm vein**
				70%tourm/30%qtz; upper/lower contact undulating
		26.58	**26.78**	**qtz/tourm vein**
				50/50 qtz/tourm
		30.20	33.37	highly broken core w/ sections of clay gouge-Fault
		34.60	**34.98**	**qtz/tourm veinlets**
				incr mica (phlog); 70%tourm; 30% qtz; rusty alt'n
		35.29	36.42	tourm alt'n
				minor qtz blebs sporatically throughout
		40.34	**67.03**	**tourm alt'n in chlsch w/ qtz/tourm veining throughout**
		46.37	**46.47**	**qtz/tourm vein**
				50/50 qtz/tourm; rusty chlsch along selvedges; vein is about 45 deg tca; upper and lower contacts undulating
		47.82	**48.13**	**qtz/tourm vein**
				95% qtz/ 5% tourm; tourm is concentrated along margins; 45 deg tca; 2 phases of veining (late stage veining is small (mm size) wispy qtz veins with some calcite/carb
		52.22	**55.44**	**series of qtz/tourm veins ranging in size from 2-14 cm**
				random orientation; veins are in rusty red brown chlsch; 54.10-54.45m fol is 50 deg tca
		55.44	58.91	tourm alt'n in rusty chlsch
		63.49	**64.00**	**qtz/tourm vein**
				upper/lower contact indistinguishable because of broken rock
67.03	**70.78**	**Aplite Dyke**		grey white aplite dike w/ musc
				upper contact 80 deg tca; sharp; lower contact 60 deg tca and sharp; tourm alt'n along lower selvedge; rusty alt'n and malichite along fractures
70.78	**109.20**	**Chlorite Schist**		chlsch

DDH04-25
AZ N/A/ Dip -90
415085E/6794384N
Elevation: 1791 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 17, 2004
Date Finished: July 19, 2004

From (m)	To (m)	From (m)	To (m)	Description
		72.40	72.88	tourm alt'n in chlsch
		74.32	**74.38**	**qtz/tourm vein**
				contacts undulating; 60% tourm/ 40% qtz
		75.94	78.33	fault; higly broken core and clay gouge
		84.43	109.20	incr veining (up to 1%); random orientations and size (mm to 5cm); most subperpendicular to CA; also incr in strain w/ fol ~90 deg to subperpendicular to CA
				93.94-104.00 mm -0.5cm laths/crystals of soft green-black mineral--chlorite?
109.20	**117.96**	**Poryphyry**		tan grey feldspar poryphyry; rusty until 109.77m
117.96		**E.O.H.**		**E.O.H.**

DDH04-26
AZ N/A/ Dip -90
415187E/6794327N
Elevation: 1787 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 16, 2004
Date Finished: July 17, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	3.04			Casing
3.04	**32.61**	**Chlorite Schist**		chlsch as in previous sections
				grey green with qtz veining throughout; veining at random orientations and size (mm-6cm)
				little to no deformation; wk to no foliation
		13.40	13.72	broken core and fault gouge
		27.88	**28.38**	**qtz tourm vein**
				80% qtz/20% tourm
				fine gr like aplite dike w/ mica?; tourm at contact;
				upper contact 75 deg tca; lower contact undulating; no scheelite
		30.28	32.61	orange/brown alteration/replacement of chlsch; possible silicification, feldspar alteration
		31.06	**32.61**	**qtz tourm vein**
		31.06	32.61	95% qtz/5% tourm; tourm along vein
		32.61	40.89	tan white fine gr aplite dike
				upper contact indistinguishable due to broken rock; lower contact transitional w/ qtz tourm vein
				massive green malichite staining throughout unit form 32.61-35.05m up to 1%; 34.26m bleb of cpy
		40.89	**41.23**	**qtz tourm vein**
				75% tourm/25% qtz; upper and lower contact transitional; less than 1% scheelite present at lower contact; small amounts of rusty sch at upper contact; some minor secondary carb staining
		41.27	41.30	green ball of chlsch
		41.23	42.64	minor amounts of rusty orange brown in with chlsch
		42.64	70.71	chlsch as in previous sections but with higher strain (mod to high); fol 50 deg tca @ 43.94m; 40 deg tca @ 44.27m; 85 deg tca @47.78m
				45.42 - 70.71 black dark green laths/crystals possible mafic min; some crystals are square/rectangles (up to 3mm)
				64.20 fol 80 deg tca
70.71		**E.O.H.**		**E.O.H.**

DDH04-27
AZ N/A/ Dip -90
415285E/6794290
Elevation: 1781 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 13, 2004
Date Finished: July 16, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	1.82			Casing
1.82	**3.51**	**Chlorite Schist**		grey green chlsch as in previous sections
				minor qtz veins sporatically throughout w/ random orientation and size (mm - 3cm)
		3.36	3.51	rusty chlsch
3.51	**9.75**	**Aplite**		grey white fine grained aplite w/ musc
				upper and lower contacts indistinguishable; fractures have rusty surfaces as well as possible manganeese staining
				some massive qtz throughout especially from 8.96-9.75m
9.75	**32.68**	**Chlorite Schist**		chlsch as before w/ weak strain
				21.92m fol is 55-60 deg tca; 26.00-32.68m incr in qtz veining; random orientation and size (mm-2cm)
				26.18-31.77m vein parallel fol @ 27.10m fol ~80 deg tca; mod strain
				29.53-30.95m minor (less 1%) po and magnetite present disseminated throughout
				31.77-32.68m rusty chlsch w/ high strain
				wk kink banding w/ approx fol of 70-75 deg tca
32.68	**46.63**	**feldspar porphyry dike**		rusty grey white feldspar porphyry dike
				upper contact undulating; lower contact indistinguishable because of broken rock
				35.73-37.03m rock highly broken....possible fault
				rusty section @ random interval and orientation
46.63	**65.53**	**Chlorite Schist**		chlsch as before
				46.63-47.82m highly strained chlsch similar to that @ upper contact of feldspar porphyry dyke
				minor tourm @46.67m
				47.60m fol 70-75 deg tca; 47.32-47.39m qtz vein no tourm
		55.00	58.80	minor (less 1%) po and possible magnetite disseminated sporatically throughout
		55.63	55.78	**qtz/tourm vein**
				rust on fracture surfaces; 70% qtz/ 30% tourm
		60.44	63.55	Fault; core highly broken, silt and clay gouge
		63.77	63.82	qtz vein no tourm
65.53		**E.O.H.**		**E.O.H.**

DDH04-28
AZ N/A/ Dip -90
415376E/6784248N
Elevation: 1775 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 7, 2004
Date Finished:July 10, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	3.35			Casing
3.35	**16.36**	**Chlorite Schist**		grey green chlsch
				weak to moderate degrees of strain throuhout; qtz veinig (no tourm) throughout; veins have random orientation and size (mm to cm)
		6.43	10.32	Fault; highly broken up rock fragments (mm-10cm); some sand and clay
		13.72	15.70	highly strained chlsch; undulating bands of lighter/darker chlsch
		15.70	16.36	rusty foliated chlsch; fol 70 deg tca @ 15.86m; fol 75 deg tca @ 16.16m
16.36	**17.05**	**Feldspar Poryphyry**		rusty light brown feldspar porphyry dike
				upper contact sharp @ 60 deg tca, lower contact uncertain....possible missing core
17.05	**22.05**	**Chlorite Schist**		chlsch as before
		17.29	18.00	wispy qtz/calcite veining; mm in size; undulating but general fol is 70-75 deg tca @17.80m
22.05	**35.20**	**Feldspar Poryphyry**		feldspar porphyry dike
				upper contact sharp @ 75 deg tca, lower contact possible @75 deg tca...broken/gouge section @ contact
				rusty sections/bands throughout, bands of rust tend to have sharp contacts; contact angles range form 15-40 deg tca
				rusty bands range in size from 4 cm -4.5 m
				crystals range in size from mm to 0.5cm
35.20	**38.52**	**Chlorite Schist**		chlsch as before
				strongly banded/foliated; fol somewhat undulating but has an average for of 70-80 deg tca; @ 36.85m 70 deg tca; 37.90m 80 deg tca
				qtz with some calcite veining-wispy mm size rusty sections throughout especially @ upper contact
				37.11-37.23m section of small scale fold--drag folding
38.52	**47.28**	**Aplite Dyke**		aplite dyke; fine grained qtz (+ musc?)
				sugar texture; white; contacts indistinguishable because of broken core; sections of rusty chlsch with tourm @ 39.10-39.36m; 40.49-40.89m; 42.64-42.87m; 1-5% tourm in these sections
				45.90 qtz becomes more massive; fracture surfaces rusty
47.28	**60.00**	**Chlorite Schist**		chlsch as before
				highly strained sections throughout with fol undulating (~80 deg tca)

DDH04-28
AZ N/A/ Dip -90
415376E/6784248N
Elevation: 1775 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 7, 2004
Date Finished:July 10, 2004

From (m)	To (m)	From (m)	To (m)	Description
				57.73-59.74 rusty broken (mg/fe) alteration of chlsch; rock is also crumbly/poorly consolidated in places
60.00	**70.10**	**Aplite Dyke**		white fine to med grained aplite dyke (musc and biotite?)
				upper and lower contacts indistinguishable because of broken core; 66.19-66.36 tourm present
70.10	**82.91**	**Chlorite Schist**		chlsch as before
		70.10	70.17	clay fault gouge
				very wk strian; compared to other section in this hole
82.91		**E.O.H.**		**E.O.H.**

DDH04-29
AZ N/A/ Dip: -90
415482E/6794231N
Elevation: 1791 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 10, 2004
Date Finished: July 13, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	5.45			Casing
5.45	**24.82**	**Chlorite Schist**		grey green chlsch
				highly deformed chlsch with qtz veining throughout; veining ranges in size from mm to 2cm; veins have random orientation and size; possible some late stage wispy (mm size) carbonate/calcite veins
		6.80	15.82	small scale folding; kink folding throughout with random orientations and sizes
24.82	**43.07**	**Feldspar Porphyry**		white tan to rusty orange/red feldspar porphyry; crystals range in size from mm to 0.5 cm, rusty alteration is not distinct...ie it fades in and out and has no sharp contacts
				upper contact indistinguishable because of broken rocks
				lower contact is sharp @75 deg tca
43.07	**48.76**	**Chlorite Schist**		chlsch as above but with little to no deformation
				minor qtz veining throughout with various orientations and size, minor wispy (mm size) later carb/calcite veins
		44.90	**45.00**	**minor qtz/tourm vein; no alt'n**
				70% qtz/30% tourm
		47.85	48.76	rusty brown alt'n/staining; patchy wk to mod fol present @ 75 deg tca @48.38m
48.76	**53.86**	**Aplite**		aplite; white grey fine grained musc?; possible Mn staining along fracture surfaces
				sections sporatically throughout that contain more of a massive qtz
				upper contact sharp @ 90 deg tca; lower contact distinguishable @ 80 deg tca
				minor amounts of tourm present @ both contacts
53.86	**114.60**	**Chlorite Schist**		chlsch as above
				moderate to high strain throughout
			55.55	fol mod to strong @ 70-75 deg tca
		55.89	**56.16**	**qtz/tourm veinlets in chlsch**
				contacts undulating; 50/50 qtz/tourm; minor (less 1%) scheelite
		56.79	**56.90**	**tourm vein w/ very minor qtz**
				minor scheelite; contacts undulating
			58.73	fol 75 deg tca
		60.36	62.29	minor fault with clay/gouge from 60.36-61.16; broken core throughout section
		64.46	68.38	highly broken core w/ sand/clay @ 67.90-68.31m
		66.03	66.17	qtz veining in chlsch; no alt'n

DDH04-29
AZ N/A/ Dip: -90
415482E/6794231N
Elevation: 1791 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 10, 2004
Date Finished: July 13, 2004

From (m)	To (m)	From (m)	To (m)	Description
			73.64	fol ranges from 70-80 deg tca
		74.03	75.07	rusty alt'd chlsch
		75.07	**75.21**	**qtz/tourm vein**
				60% qtz/40% tourm; upper/lower contacts irregular
		75.21	76.69	minor rusty alt'd chlsch
		76.69	**76.83**	**qtz/tourm vein**
				60% qtz/40% tourm; contacts irregular
		76.83	78.03	rusty alt'n in chlsch throughout
		78.03	84.12	rusty alt'n in chlsch mainly along fractures
		85.65	114.60	chlsch with incr veining; veins have random orientation and size (mm to 9cm); at least 2 phases of veining
				87.54-87.63 fol 65-70 deg tca
				103.06-106.15m magnetite present throughout; somewhat patchy
114.60		**E.O.H.**		**E.O.H.**

DDH04-30
AZ N/A/ Dip:-90
414886E/6794424N
Elevation: 1771 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 19, 2004
Date Finished: July 21, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	2.13			Casing
2.13	**118.72**	**Chlorite Schist**		grey green chlsch
				wk-mod deformation throughout; qtz veins at random orientation and size (mm-11cm)
		2.20	**2.26**	**qtz/tourm vein**
				contacts indistinguishable, broken rock; 75% qtz/25% tourm
		7.31	**7.56**	**qtz/tourm vein**
				minor scheelite (less 0.5%); contacts undulating; 65%qtz/35% tourm
		8.87	9.09	undulating tourm veinlets (2cm wide) with qtz stringers (mm in size) in center
				covers 5 % of this section
		10.72	14.43	chlsch tourm alt'n mod - strong in intensity
				fracture coatings covered in rust
		14.43	**14.46**	**qtz/tourm vein**
				contacts undulating; 85%qtz/15% tourm
		14.46	16.76	chlsch/tourm alt'm
				mod to strong alt'n; minor mm qtz stringers
		16.76	17.09	rusty qtz/tourm/chlsch breccia
				clasts mm-7cm in length
			18.70	fol 65-70 deg tca
		17.09	20.85	red orange rusty alt'n replacement
		20.85	22.10	chlsch/tourm alt'n
				tourm vein 20.85-20.93m folded
		22.10	22.29	brecciation as before
		22.29	23.52	strong tourm alt'n
		23.52	25.69	orange red brown alt'n/replacement; minor amounts of carbonate/qtz; strong deformation
		26.29	26.45	chlsch tourm alt'n
		26.45	**26.57**	**qtz/tourm vein**
				contacts undulating; 75% tourm/ 25% qtz
		26.57	27.49	tourm/chlsch alt'n
		32.98	35.68	chlsch/tourm alt'n; mod intensity
				fol 65 deg tca @33.72m

DDH04-30
AZ N/A/ Dip:-90
414886E/6794424N
Elevation: 1771 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 19, 2004
Date Finished: July 21, 2004

From (m)	To (m)	From (m)	To (m)	Description
		35.68	**36.00**	**qtz vein w/ manganeese staining; minor tourm along selvedges; upper contact 70 deg tca**
		36.00	38.45	chlsch tourm alt'n
				37.09-37.19m mica (phlog/biotite) rich tourm altered; minor amounts of qtz 1% scheelite
		38.45	39.80	chlsch/tourm alt'n with red orange alt'n/replacement; mod intensity
		39.80	**40.11**	**qtz/tourm vein**
				65% tourm/ 35% qtz; upper/lower contacts undulating; at least 2 phases of veining present; minor amounts of scheelite
		40.11	41.16	chlsch/toum alt'n w/ red orange alt'n/replacement mod intensity
		41.16	43.46	continuation of orange/red alt'n replacement; blotchy/patchy throughout
		43.46	**43.60**	**qtz/tourm vein**
				upper/lower contact undulating; 90% qtz / 10% tourm
		43.60	43.84	orange/red alt'n replacement
		43.84	45.17	qtz, minor chl, rusty orange red alt'n replacement breccia; qtz veining random orientation and size; clasts up to 3 cm
				44.38-44.50 qtz/tourm vein; contacts undulating; 60%qtz/40% tourm
		45.17	**45.28**	**qtz/ tourm vein; contacts undulating; 80% tourm/20% qtz**
				47.95m fol 55-60 deg tca
		48.44	**50.70**	**tourm alt'n in chlsch**
				wk to mod intensity
		50.70	**51.25**	**qtz/tourm veining**
				contacts undulating; 65% qtz /35% tourm
		51.25	53.62	tourm alt'n in chlsch
		53.87	**55.40**	**rusty orange red alt'n/replacement with qtz/tourm veins throughout veins have random orientation and size (1-22 cm)**
				54.02-54.06m manganese staining
				54.37m fol 70 deg tca
				54.60-54.82m aplite (grey white, sugary texture, musc present)
		55.40	59.45	tourm alt'n in chlsch
				mod intensity
			58.24	bleb cpy

DDH04-30
AZ N/A/ Dip:-90
414886E/6794424N
Elevation: 1771 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 19, 2004
Date Finished: July 21, 2004

From (m)	To (m)	From (m)	To (m)	Description
		58.45	58.56	qtz vein-no tourm, contacts undulating
		60.66	62.35	tourm alt'n in chlsch; wk to mod intensity
		62.35	**62.50**	**qtz/tourm vein**
				contacts undulating, less 1% scheelite, 30% qtz 70% tourm
		62.50	64.35	tourm alt'n in chlsch
				mod intensity
		64.35	**64.48**	**qtz tourm vein**
				contacts undulating but vein orientation @ 55 deg tca
		64.48	66.35	tourm alt'n in chlsch, wk intensity
		66.35	**66.39**	***qtz/tourm veinlets; 50/50 qtz/tourm; undulating contacts***
		66.39	66.93	tourm alt'n in chlsch, wk intensity
		69.20	69.42	qtz veins in chlsch; 69.20-69.26m and 69.33 to 69.42m
		70.36	70.80	tourm alt'n in chlsch; wk to mod intensity
		70.80	**71.43**	**qtz/tourm vein**
				upper contact slightly undulating but ~ 55 deg tca; lower contact ~90 deg tca; 80%qtz/30% tourm
		76.63	118.72	*chlsch w/ incr veining up to 1-2% throughout section; veining is qtz; random orientation and size* (mm-11cm)
				at 106.00 - 107.32 veins aplitic
				105.0-105.64 black lath xtals of mafic min
				106.68-109.88 fault, highly broken core (mm-10cm) chunks; some clay gouge
				116.43-118.72m incr strain in chlsch; fol 80 deg @ 116.73
118.72	**121.01**	**Feldspar Poryphyry**		grey pink feldspar porphyry
				119.95-121.01 porphyry is rusty
121.01		**E.O.H.**		**E.O.H.**

DDH04-31
AZ N/A/ Dip: -90
414930E/6794408N
Elevation: 1777 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 22, 2004
Date Finished: July 24, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	2.13			Casing
2.13	**72.24**	**Chlorite Schist**		chlsch as in other holes; light greeen grey
				wk to strong deformation throughout but mostly wk
			2.50	fol 85 deg tca
			3.70	fol 75-80 deg tca
		5.46	**5.53**	**qtz/tourm veinlets**
			11.00	fol 60 deg tca
			22.62	fol 55-60 deg tca
		23.00	23.47	broken core and clay gouge
		27.90	28.41	highly altered actinolite/tremolite chlsch; rusty throughout
		33.04	34.06	strong tourm
		34.73	35.37	chlsch with rusty orange red replacement tourm alt'n; mod to strong alt'n
		35.37	**35.79**	**qtz/tourm veining**
				with rusty orange/red replacement/alt'n; 40% qtz/60% tourm; contacts undulating; > 1% scheelite
		35.79	38.46	chlsch with tourm alt'n
				35.79-37.29m rusty orange/red alt'n replacement w/ tourm alt'n, strong alt'n throughout
		38.46	**38.61**	**qtz/toum vein**
				contacts undulating 65% qtz/ 35% tourm; >1% scheelite present throughout
		38.61	41.66	chlsch tourm alt'n
				38.79-41.66m orange/red replacement alt'n; strong alt'n 39.30-39.63m 85% tourm
		44.30	44.81	fault; highly broken core with minor clay/sand
		47.29	**49.19**	**qtz/tourm veinlets throughout**
				highly broken at various intervals throughout; veinlets vary in size and orientation
				5% qtz / 95% tourm; limonite?? Rust along fractures
			49.90	incr phlog to 50.10m
		50.10	52.76	chlsch tourm alt'n mod-strong alt'n
		52.76	**53.40**	**qtz/tourm vein**
				with >1% red/orange replacement/alt'n; 40% qtz/60%tourm; contacts undulating
				>1% scheelite present
		53.40	54.40	chlsch tourm alt'n mod-strong alt'n
		54.40	**54.90**	**qtz/tourm vein**

DDH04-31
AZ N/A/ Dip: -90
414930E/6794408N
Elevation: 1777 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 22, 2004
Date Finished: July 24, 2004

From (m)	To (m)	From (m)	To (m)	Description
				>1% red/orange replacement/alt'n; 40% qtz/60% tourm; contacts undulating
		54.90	55.22	phlog/biotite rich chlsch with wk tourm alt'n
				54.32-54.36m >1% scheelite present
			54.69	fol 80-90 deg to CA
		55.22	**55.27**	**qtz/tourm vein**
				90%qtz/10% tourm
		55.27	57.51	chlsch w/ tourm alt'n; mod to strong alt'n
		57.51	**57.59**	**qtz/tourm vein**
		57.59	58.08	phlog rich chlsch w/ vwk tourm alt'n
		58.08	**58.15**	**qtz/toum vein**
				contacts undulating 75% qtz/ 25% tourn
		58.15	59.08	phlog rich chsch w/ mod alt'n
			58.80	start red/orange replacement/alt'n
		59.08	**59.22**	**qtz vein with minor tourm along selvedges**
				97% qtz/ 3% tourm; upper contact undulating/lower contact indistinguishable (fault)
		59.22	61.55	fault; semi consolidated with some clay gouge
				59.22-59.79 possible qtz/aplite/tourm vein semiconsolidated
				59.79-61.21m red/orange replacement/alt'n w/ tourm; semi consolidated; qtz vein and veinlets running
				61.21-61.55m semi consolidated chlsch
		61.55	63.94	chlsch w/ incr deformation fol 75-80 deg @ 61.67
		63.94	65.78	chlsch w/ tourm alt'n; mod to strong alt'n
				64.79-65.35 incr tourm alt'n; 64.25m fol 55-60 deg to CA (secondary veinlets, qtz/carb)
		65.78	**66.12**	**qtz/tourm veinlets various orientations and sizes (1-14cm)**
				65.89-66.12m incr mica (phlog/biotite) fol 80-85 deg tca
		66.12	68.35	chlsch w/ tourm alt'n; wk alt'n
		69.19	72.24	chlsch w/ increased veining; random orientation and size mm-1.5cm; also increase deformation
72.24		**E.O.H.**		**E.O.H.**

DDH04-32
AZ N/A / Dip: -90
414930E/6794408N
Elevation: 1766 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 21, 2004
Date Finished: July 22, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	2.13			Casing
2.13	**69.19**	**Chlorite Schist**		Chlsch; grey green; wk to mod fol; zones of rusty chlsch and incr mica; qtz/tourm veins w/ tourm alt'n; qtz veining, some carb veining
		2.13	5.79	wk tourm alt'n in chlsch
		8.06	9.48	rusty carb veinlets in chlsch
		9.48	10.47	wk tourm alt'n in chlsch
		10.67	**10.78**	**qtz/tourm vein**
				vein boundaries undulating; 90%qtz/ 10% tourm
		10.78	13.58	strong tourm alt'n in chlsch; 11.62-12.12m core is bleached
		13.58	**14.04**	**qtz/tourm veins in chlsch**
				vein boundaries undulating; veins @ 13.58-13.73m and 13.91-14.04m separated by tourm
		14.04	15.97	strong tourm alt'n in chlsch; 14.69-15.18m incr mica in chlsch; 15.62-15.97m rusty chlsch
		17.48	17.95	rusty chlsch
		19.05	21.12	mod tourm alt'n in chlsch
		21.12	**21.28**	**qtz/tourm vein**
				upper and lower contact ~85-90 deg tca; 85% qtz/15% tourm
		21.28	22.02	wk tourm alt'n in chlsch
		22.45	22.56	EP blebs in chlsch
		23.49	24.83	mm size carb veinlets; fol of veinlets is 65-70 deg tca @ 24.42m
		24.83	26.53	wk tourm alt'n in chlsch
		26.88	28.30	EP blebs in chlsch
		29.25	29.40	qtz veins in chlsch; veins undulate, some EP blebs
		29.89	**29.95**	**qtz/tourm vein**
				vein boundaries undulating; 50/50% qtz/tourm
		30.63	31.00	rusty carb rich chlsch; fol 65 deg tca @30.75m; 30.85-31 tourm frag w/carb
		31.00	32.56	mod to strong tourm alt'n in chlsch
		32.56	**32.77**	**qtz/tourm vein**
				vein boundaries undulating; 70%tourm/ 30% qtz, ~1% scheelite throughout
		32.77	36.93	strong tourm alt'n in chlsch; zoned and xtal troum
		36.93	38.54	qtz vein w/ minor tourm throughout; vein contacts undulating; 33.44-38.54m incr amounts of tourm (5-50%); 95% qtz/ 5% tourm
		38.54	38.84	strong tourm alt'n
		38.84	**39.77**	**qtz veins in tourm**

DDH04-32
AZ N/A / Dip: -90
414930E/6794408N
Elevation: 1766 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 21, 2004
Date Finished: July 22, 2004

From (m)	To (m)	From (m)	To (m)	Description
				veins have irregular contacts; 65% tourm; 35% qtz; <1% scheelite throughout
		39.77	39.85	flt; core busted up into clay
		39.85	40.40	mod tourm alt'd chlsch
		40.40	**40.57**	**qtz/tourm vein**
				contacts irregular; 70% tourm; 30% qtz; ~1% scheelite
		40.57	40.96	strongly torm alt'd rusty orange/red alt'n/replacement chlsch; some carbonate
		40.96	**41.70**	**qtz/tourm vein**
				in tourm rich chlsch; 50/50 qtz/tourm; contacts undulating
		41.70	41.76	strong tourm alt'd rusty orange/red alt'n/replacement in chlsch
		41.76	**42.00**	**tourm vein w/ minor qtz**
				contacts irregular; multigenerations of tourm; 99% tourm/1% qtz
		42.00	**42.42**	**qtz/tourm vein**
				contacts irregular; 85%qtz/ 15% tourm
		42.42	42.69	strong tourm alt'd chlsch
		42.69	**43.06**	**tourm vein w/ minor qtz; same as above**
		43.06	**43.88**	**qtz/tourm vein**
				contacts irregular; 50/50 qtz/tourm; tourm xtal and massive
		43.88	44.75	strong tourm alt'n in chlsch; 44.07-44.16m 1% scheelite
		44.75	**45.21**	**tourm vein w/ minor qtz, as above; 1%scheelite**
		45.21	46.12	*rusty carb strong tourm alt'd chlsch*
		46.12	47.45	carb veinlets (mm) in size @ various orientation
		48.48	49.33	strong tourm alt'n in chlsch
		49.33	50.67	qtz/tourm/carb bx; contacts undulating, gypsum rosets from 49.82-50.22m; matrix chlsch
		50.67	51.86	strong tourm alt'n in chlsch
		51.86	**52.31**	**tourm vein w/ minor qtz; same as above**
		52.31	**52.43**	**qtz vein (creamy white) w/ minor carb and tourm; BX**
		53.43	53.67	strong tourm alt'n in chlsch
		53.67	55.87	wk tourm alt'n in chlsch
		55.87	59.70	strong tourm alt'n in chlsch
		59.79	69.19	chlsch w/ dark and light variations in colour; fol 55 deg tca; minor qtz veinlets throughout mm in size and various orientations
69.19		**E.O.H.**		**E.O.H.**

DDH04-33
AZ N/A / Dip: -90
415017E/6794377N
Elevation: 1785 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 24, 2004
Date Finished: July 25, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	3.66			Casing
3.66	**65.84**	**Chlorite Schist**		grey green chlsch as before
				wk to mod deformation; qtz/tourm veining present throughout
		3.66	5.50	flt; highly broken core w/minor clay; from 4.90-5.33m solid chunks of core up to 12cm in length w/ clay sections throughout
		6.36	11.98	chlsch w/ incr mica (phlog/biotite) @ 7.45m fol is 85 deg tca
		16.35	16.41	qtz veining; no tourm; boundaries undulating
		18.93	19.04	qtz veining; no tourm;18.94-18.98m belbs of massive cpy; contact undulating
		21.38	24.16	chlsch w/ rusty carb/cc veinlets (mm in size); tend to occur in sporatic pockets throughout..probably secondary
			23.56	fol 70 deg tca
		24.00	24.06	fol 75-85 deg tca
		24.16	25.24	mod tourm alt'n in chlsch
		25.24	**25.41**	**qtz/tourm vein in chlsch**
				<5% tourm to 95% qtz/5% tourm; contacts undulating
		25.41	26.79	mod to strong tourm alt'n in chlsch
		26.79	27.12	strong tourm alt'n in chlsch w/ rusty carb/cc (secondary) veinlets (mm in size)
		27.12	**27.22**	**qtz vein with minor tourm @ upper contact**
		27.22	27.54	tourm alt'n in chlsch; mod to strong alt'n; 27.34-27.54m incr mica(phlog/biotite)
		27.54	**27.73**	**tourm /qtz veining**
				90% tourm/ 10% qtz; 1%scheelite; contact undulating
		27.73	28.57	tourm alt'n in chlsch; 23.73-28.04m strong alt'n; 28.04-28.57m wk tourm alt'n
		28.57	**28.62**	**qtz/tourm vein**
				minor scheelite; vein boundaries are undulating
		28.62	32.61	tourm alt'n in chlsch; wk to mod alt'n
		32.61	32.89	tourm alt'n in rusty chlsch and carb/cc veining (mm in size)
		32.89	**33.07**	**tourm/qtz vein**
				60%tourm/40%qtz; boundaries undulate; wk scheelite throughout
		33.07	33.13	rusty tourm alt'n in chlsch; carb/cc veinlets
		33.13	34.27	tourm alt'n in chlsch w/ incr mica (phlog/biotite); mod alt'n
		34.27	**34.43**	**qtz/tourm vein**
				80%qtz/20% tourm; wk scheelite throughout; contacts undulate
		34.43	36.53	tourm alt'n in mica rich chlsch; mod alt'n

DDH04-33
AZ N/A / Dip: -90
415017E/6794377N
Elevation: 1785 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 24, 2004
Date Finished: July 25, 2004

From (m)	To (m)	From (m)	To (m)	Description
		36.53	39.53	rusty chlsch with mod to strong tourm alt'n; minor qtz veinlets throughout section; rusty carb/cc veining
		39.53	**40.10**	**aplitic qtz/tourm vein**
				upper contact ~75 deg tca (slightly undulating); lower contact indistinguishable; 98%qtz/2% tourm; incr musc
		41.10	40.23	tourm alt'd chlsch; wk to mod alt'n
		40.23	**40.34**	**tourm/qtz vein**
				contacts undulating; 1% scheelite present throughout; 75% tourm/25% qtz
		40.34	40.57	tourm alt'n in chlsch; mod to strong alt'n
		42.24	**42.71**	**aplitic qtz/tourm vein**
				98% qtz/ 2% tourm; incr musc; upper and lower contact undulating but~85 deg tca
		48.12	51.72	chlsch w/ wk to mod tourm alt'n
		51.72	**51.81**	**tourm/qtz vein**
				75% tourm/25% qtz; minor (less 1% scheelite)
		51.81	51.89	tourm alt'n (strong) in chlsch
		51.89	**53.05**	**aplitic qtz/tourm vein**
				less 1% tourm; contacts indistinguishable because of broken core
		53.05	54.94	strong tourm alt'n in chlsch
		54.94	55.00	qtz vein; contacts undulating
		55.00	55.36	tourm alt'n; mod alt'm
		55.36	**55.55**	**qtz/tourm aplite vein**
				less 1% tourm; upper contact undulating but ~85-90 deg tca; lower contact??
		55.55	56.90	wk tourm alt'n
		56.90	62.53	chlsch w/ incr veining; qtz veins have random orientation and size (mm-5cm)
		62.53	**62.61**	**qtz/tourm vein**
				contacts undulating; 80%qtz/20% tourm
		62.61	64.32	chlsch w/ incr veining;qtz veining have random oreintation and size (mm-2cm)
		64.32	64.40	highly broken core; some clay; possible fault
65.84		**E.O.H.**		**E.O.H.**

DDH04-34
AZ N/A / Dip: -90
415046E/6794411N
Elevation: 1796 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 25, 2004
Date Finished: July 26, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	5.18			Casing
5.18	**66.16**	**Chlorite Schist**		chlsch as in previous holes; grey green; mod-strong fol/deformation throughout; small mm size secondary rusty carb/cc veinlets in sections sporatically throughout; for most part veinlets are parallel to fol, but some crosscut fol; fol varies throughout
			12.00	fol 85-90 deg tca
		15.00	18.90	pseudo BX texture in chlsch, w/ minor incr in rusty micas (phlog/biotite)
		19.77	19.83	ssf in chlsch; possible ptigmatic folding
		21.75	**22.12**	**qtz/tourm vein**
				up to 1% scheelite especially along margins; rusty - jarosite?? Sporatically throughout but also along fracture planes; contacts are undulating
				21.93-21.97m vein is highly broken (mostly tourm)- 70% tourm/ 30%qtz; rest very little to no tourm
		24.61	25.08	vwk-wk tourm alt'n in chlsch
		25.08	**25.40**	**qtz/tourm vein**
				in a tourm alt'd chlsch; contacts undulating; ~1% scheelite but mainly concentrated @ boundaries; rusty fracture surfaces; 50/50 qtz/tourm
		25.40	26.80	wk tourm alt'n in chlsch
		29.56	31.60	wk tourm alt'n in rusty highly foliated mica rich chlsch; 29.85m fol 80-85 deg tca;30.44-31m chlsch has wk tourm and rusty weathering; 31.50m fol 80 deg tca; lots of qtz veinlets (mm in thickness) throughout // to CA
		31.60	40.00	chlsch that is blocky and highly broken
		35.38	36.97	35.38-36.97m strong tourm alt'n in chlsch w/ qtz/feldspar? Vein at 35.55 to 35.65- no tourm
		38.00	38.42	mica (phlog/biotite) rich chlsch fol ~65 deg tca
		38.86	39.00	chlsch w/ strong micas and mod tourm alt'n
		40.09	46.00	falut; fine fragments of rock (probably chlsch); clay and sand present; 2 sections 40cm and 28cm respectively that are solid core
				42.38-42.51m highly broken qtz/tourm vein?; contacts?; % qtz/tourm??
		46.00	51.91	possible minor fault with blocky chlsch; 51.73-51.91m mod to strong tourm alt'n in chlsch
		51.91	**52.02**	**qtz/tourm vein**
				contacts undulating; ,1% scheelite; 50/50 qtz/tourm
		52.42	**53.71**	**qtz/tourm vein in strongly altered tourm chlsch**
				contacts undulating; ,1-2% scheelite (mainly at contacts) 85% tourm/15% qtz; xtal tourm found in section; 53.10-53.44 m strong tourm

DDH04-34
AZ N/A / Dip: -90
415046E/6794411N
Elevation: 1796 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 25, 2004
Date Finished: July 26, 2004

From (m)	To (m)	From (m)	To (m)	Description
		53.71	55.85	mod tourm alt'n in chlsch
		55.85	56.48	strong tourm alt'n in chlsch
		56.48	**56.80**	**qtz/tourm vein**
				carbonate (late); vein is highly strained with frag of qtz; tourm and carb in highly altered chlsch; tenstion
		56.80	57.29	wk tourm alt'd highly strained chlsch
		57.29	**57.47**	**qtz/tourm vein**
				secondary carb in dark green highly strained chlsch; 50/50qtz/tourm
		57.47	58.63	mod xtal tourm in chlsch w/ minor rusty carb veinlets
		61.52	61.79	carb? Veinlets in chlsch
		61.79	62.09	carb veinlets in dark/bleached green chlsch
		62.09	62.68	mod tourm alt'n in rusty bleached chlsch
		62.68	**62.75**	**qtz/tourm vein**
				contacts undulating; 50/50 qtz/tourm
		62.75	63.25	mod tourm alt'n in chlsch
		64.57	65.13	mod to strong tourm alt'n in bleached/alt'd chlsch
		65.13	**65.23**	**carb qtz vein w/minor tourm**
		65.23	65.36	alt'd/bleached chlsch w/ wk tourm alt'n
		65.36	**65.82**	**qtz/tourm veins**
				(2-3cm thick) in chlsch alt'd w/ zoned tourm
		65.82	66.16	wk to mod tourm alt'n in chlsch
		66.16	68.70	qtz/feldspar (plag?)/carb aplite vein w/ rusty car/qtz? Veinlets (mm thick) subparallel to CA; some minor tourm
			67.02	mirco faults
		68.70	69.19	strong tourm alt'n in chlsch
		70.15	70.71	rusty red/orange replacement/alt'n with wk tourm
70.71		**E.O.H.**		**E.O.H.**

DDH04-35
AZ N/A / Dip: -90
414946E/6794455N
Elevation: 1800 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 27, 2004
Date Finished: July 28, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	1.52			Casing
1.52	**50.90**	**Chlorite Schist**		chlsch; grey green; wk to mod fol; mod to strong qtz and qtz/tourm veining throughout; some fracture surfaces coated with qtz
		7.54	7.64	tourm w/ minor qtz 95% tourm 5% qtz
		12.11	13.14	rusty chlsch w/ tourm alt'n; strong fol 85-90 deg tca; mica (phlog/biotite) rich
		13.14	17.22	chlsh w/ pbx texture
		22.70	22.80	epidote in chlsch
		24.97	**25.05**	**qtz vein w/ minor tourm**
				contacts undulating; 99% qtz/ 1% tourm
		25.05	25.53	mica rich tourm alt'd chlsch
		25.53	**25.86**	**qtz vein w/ minor tourm except at vein boundaries**
				some chlsch in vein; 80% qtz/ 20% tourm; from 25.80-25.86 90% tourm in mica rich chlsch
		26.50	30.55	mod to strong fol in chlsch; fol @ 29.80 is 80-85 deg tca, fol is 85-90 deg tca @ 30.50m; minor amounts of pbx in section; 28.85-29.85m strong tourm alt'n in chlsch, 30.26-30.50m mod to strong tourn alt'n in chlsch
		33.26	35.06	core loss w/ highly broken core and clay gouge...possible fault
		36.78	38.65	highly foliated darker green chlsch w/ rusty alt'n throughout @ 37.18m fol is 70-75 deg tca; 38.52m fol is
			48.28	malichite on fracute pane
		49.97	50.34	epidote blebs in chlsch
50.90		**E.O.H.**		**E.O.H.**

DDH04-36
AZ N/A / Dip: -90
414862E/6794484N
Elevation: 1792 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 28, 2004
Date Finished: July 29, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	1.83			Casing
1.83	**73.76**	**Chlorite Schist**		grey green chlsch; section of rusty chlsch; qtz and qtz/tourm veins throughout; tourm alt'd chlsch present, mod strain; section of incr mica; aplite dyke ~60 cm long; bleached/Ep zones in chlsh also present
			3.00	fol is 85 to 90 deg tca
		4.35	4.57	gypsum? Carb qtz vein with chlsch and tourm
		5.32	5.77	rusty mica rich chlsch; qtz vein @ 5.37-5.42; wk scheelite; minor tourm
			5.85	fol 70 deg tca
		8.18	10.09	rusty mica rich chlsch; fol 85-90 deg tca throughout wk tourm alt'n
		13.85	16.05	fol varies widly throughout in rusty carb rich chlsch; 14.82-15.59m wk tourm alt'n in chlsh
		17.82	20.36	wk to mod tourm alt'n in chlsch
		22.51	25.52	rusty chlsch w/mod to strong fol ranging form 45-50 deg tca @ 22.85m to 85-90 deg tca @ 24.00m
				carb veinlets have random orientation and size; there are more than one generation of carb veining
		25.55	25.82	tourm alt'n in chlsch
		34.19	37.53	incr mica in chlsch; fol varies throughout from 85- 90 deg tca @ 34.50 to 35-40 deg tca @ 36.80; 36.20-36.40 qtz vein
		37.53	38.00	strong tourm alt'n in chlsch; 37.80-38m ~0.5% scheelite especially along tourm veins; chlsch bleached
		38.77	40.71	mod to strong tourm alt'n in chlsch; 39.94-40.1m ~5% scheelite
		40.71	**40.82**	**rusty qtz/tourm vein**
				boundaries undulating; 85% qtz/ 15% tourm
		40.82	41.88	mod to strong tourm atl'n in chlsch
		43.59	44.75	mod to strong tourm alt'n in chlsch; 44.03-46m incr mica in chlsch
		46.00	46.43	strongly tourm alt'd chlsch w/ veinlets of qtz; also rusty alt'n; ~1% scheelite especially along tourm/qtz veinlet contacts; incr mica at contacts
		46.82	48.30	mod to strong tourm alt'n in chlsch w/ incr mica throughout; 47.25-47.35m tourm veinlets w/ minor qtz w/ ~1% scheelite along contacts
		49.00	50.81	incr mica in chlsch
		52.10	53.07	mod to strong tourm alt'n in mica rich chlsch
		57.03	53.68	aplite dyke; grey white colour, contacts undulating but upper contact ~55 deg tca; musc? present
		54.01	**54.15**	**qtz/tourm vein**
				contacts undulating but upper contact ~85-90 deg tca; tourm mainly @ vein contacts; 80%qtz/ tourm 20%

DDH04-36
AZ N/A / Dip: -90
414862E/6794484N
Elevation: 1792 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 28, 2004
Date Finished: July 29, 2004

From (m)	To (m)	From (m)	To (m)	Description
		54.15	55.97	strong tourm alt'n in mica rich chlsch; minor qtz/tourm veinlets throughout ranging in size form mm-6cm
		55.97	**56.33**	**qtz/tourm vein**
				in strongly tourm alt'd chlsch; vein contacts are undulting; 70%qtz/30% tourm
		56.33	56.65	strong tourm alt'n in chlsch
		56.65	**56.74**	**qtz/tourm vein**
				upper contact ~50 deg tca; lower contact undulating; tourm mainly along vein contacts along w/ scheelite (less 1%); 75% qtz; 25% tourm
		56.74	60.76	strong bleached tourm alt'n in mica rich chlsch; tourm zoned
		60.76	**61.15**	**qtz/tourm vein**
				in strongly tourm alt'd chlsch; vein contacts are undulating; tourm zoned and xtal'n; less 1% scheelite found at lower contact; 50/50 qtz/tourm
		61.15	64.45	strong bleached tourm alt'n in mica rich chlsch; 61.26-61.67 strong scheelite ~1% especially along tourm veinlets
		64.45	**64.63**	**qtz/tourm vein**
				in strongly alt'd chsch; contacts undulating; 50/50 qtz/tourm
		64.63	68.44	strongly bleached tourm alt'd chlsch w/ incr mica
		68.44	**68.84**	**qtz/tourm vein**
				contacts undulating; 80%qtz/ 20% tourm; scheelite @ vein contacts ~1%
		68.84	73.20	mod to strong bleached tourm alt'n in chlsch; 71.20-71.30m tr scheelite
73.76		**E.O.H.**		**E.O.H.**

DDH04-37
AZ N/A / Dip: -90
414988E/6794417N
Elevation: 1795 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 29, 2004
Date Finished: July 30, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	2.13			Casing
2.13	50.60	Chlorite Schist		grey green mod to strongly foliated chlsch; sections of bleached rusty orange/red alt'n/replacement w/ carb; qtz veins; qtz/tourm veins w/ tourm alt'n in chlsch; veins have random orientation and size; fol ranges form 50-80 deg tca
		4.38	7.29	rusty red/orange alt'n/replacement in chlsch; bleached in places; carb veinlets throughout
		7.29	**7.39**	**qtz/tourm vein**
				80% tourm/ 20% qtz; boundaries undulating
		7.39	9.37	chlsch w/ weak rusty red orange alt'n / replacement; strongly foliated; 9.20m fol 70 deg tca; 7.98m fol 50 deg tca
		12.49	**13.00**	**tourm vein**
				very minor qtz; boundaries undulating; up to 5% scheelite; 99% tourm; 1% qtz
			14.18	fol 70-75 deg tca
			15.88	fol 70 deg tca
		18.90	18.99	ssf in chlsch w/ carb veinlets
			19.56	fol is 70 deg tca
		21.95	23.05	chlsch w/ incr stringers/veinlets of carb; 22.98 fol is 75-80 deg tca
		23.05	23.69	chlsch w/ wk tourm alt'n and incr mica (phlog/biotite); 23.40m fol is 70 deg tca
		23.69	**23.92**	**qtz/tourm vein**
				vein boundaries undulating; 60% qtz/ 40% tourm; less 1% scheelite... mainly found at vein boundaries
		23.92	25.08	strong tourm alt'n in chlsch
		25.08	**25.44**	**qtz/tourm veinlets**
				in chlsch (strongly tourm alt'd); 75%qtz/ 15% tourm; boundaries indeterminable (broken core); less 1% scheelite
		25.44	26.52	strong tourm alt'n in chlsch
		28.10	**28.49**	**qtz/tourm veins**
				in chlsch; 28.10-28.35m vein is // to sub// to CA; boundaries undulating; 75% qtz/ 25% tourm
		28.49	29.00	wk tourm alt'n in chlsch
		29.84	32.37	strong tourm alt'n in chlsch
		32.37	37.00	chlsch w/ mm size rusty carb veinlets throughout; veins tend to have fol of 50 deg tca; 33.63m fol 50 deg tca; 35.47m fol 50 deg tca; possible multiple generations ; 33.63-33.90m SSF; some enecholon/tension gashes
		41.99	43.50	rusty carb veinlets; mm in size in chlsch; 42.63-42.76m incr mica (phlog/biotie)
		43.50	50.60	black green chlsch w/ incr veining throughout; veins of qtz w/ random orientation and size; w/ minor
50.60		**E.O.H.**		**E.O.H.**

DDH04-38
AZ N/A / Dip: -90
414770E/6794522N
Elevation: 1783 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 30, 2004
Date Finished: July 31, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	1.83			Casing
1.83	**55.17**	**Chlorite Schist**		grey green chlsch; qtz and qtz/tourm veins present; sections of tourm alt'n in chslch; sections of increased mica; wk fol/strain
		1.83	4.59	mod to strong tourm alt'n in chslch; zoned and xtal
		4.59	**4.72**	**rusty qtz/tourm vein**
				minor carb; contacts undulating, 50/50 qtz/tourm
		4.72	5.29	strong tourm alt'n in chlsch
			5.60	Ep/ bleached blebs in chlsch
		6.39	6.77	mod tourm alt'n in chlsh
		9.93	10.03	Ep/ bleached blebs in qtz in chlsch
			10.60	Ep/ bleached blebs in qtz in chlsch
		10.70	11.57	wk tourm alt'n in chlsch
		11.90	12.30	Ep/ bleached blebs in chlsch
		12.49	12.74	incr mica (phlog and biotite) in chlsch
		12.74	13.74	wk tourm alt'n in chlsch
		13.74	**13.84**	**rusty qtz/tourm vein**
				contacts undulating; 60% qtz/ 40% tourm
		13.84	16.29	wk tourm alt'n in chlsch
		16.29	**16.35**	**rusty qtz/tourm vein**
				in strongly tourm alt'd chlsch; contacts undulating but~ 90 deg tca; tourm mainly along vein contacts; 70% qtz/ 30% tourm
		16.35	16.43	strong tourm alt'n in bleached chlsch
		16.43	16.80	Ep/ bleached blebs in chlsch
			19.13	Ep/ bleached blebs in chlsch
		20.26	22.10	incr mica (phlog and biotite) in chlsch
		23.13	**23.46**	**qtz/tourm vein**
				contacts undulating; 85% qtz/ 15% tourm
		23.46	23.50	mod to strong tourm alt'n in chslch
		23.50	**23.60**	**rusty qtz/tourm vein**
				contacts undulating; 90% qtz/10% tourm
		23.87	23.90	Ep/bleached blebs in chlsch and qtz vein

DDH04-38
AZ N/A / Dip: -90
414770E/6794522N
Elevation: 1783 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 30, 2004
Date Finished: July 31, 2004

From (m)	To (m)	From (m)	To (m)	Description
		25.58	26.02	strong tourm alt'n in chlsch
		26.02	**26.19**	**qtz/tourm vein**
				cotnacts undulating but ~85-90 deg tca; tourm also found along vein selvedges; 80% qtz/ 20% tourm
		26.19	27.84	wk to mod tourm alt'n in chlsch; 26.49-26.89m incr mica (phlog/bioite) in chlsch
		27.84	33.39	strong tourm alt'n in chlsch; mica rich sections throughout; chlsch tends to be bleached compared to previous sections; tourm zoned
		33.39	**33.77**	**tourm vein w/ minor qtz**
				in strongly tourm alt'd chlsch; 95% tourm/ 5% qtz; contacts irregular ; less 1% scheelite throughout
		33.77	34.20	strong tourm alt'n in chlsch as above
		34.2	24.84	tourm vein w/ minor qtz; contacts irregular; 95% tourm' 5% qtz; 1-5% scheelite; incr mica (phlog/ biotite/ Musc?)
		34.84	34.87	rusty strongly tourm alt'd chlsch
		34.87	35.86	incr mica in chlsch
		35.86	36.78	strong tourm alt'n inc chlsch
		36.78	37.43	incr mica in chlsch (biotite/phlog)
		37.78	37.90	qtz vein in chlsch; contacts irregular
		37.90	38.16	mod tourm alt'n in chlsh
		39.26	42.57	strong tourm alt'n in chlsch; 40.53-40.57; less 1% scheelite
		43.72	44.91	wk to mod tourm alt'n in chlsch
		44.91	**45.00**	**rusty qtz/tourm vein**
				vein boundaries undulating but have general trend of 65 deg tca; incr mica @ upper contact 75% qtz/ 25% tourm
		45.00	48.57	strong tourm alt'n
		48.57	**48.81**	**qtz/tourm vein**
				contacts undulating; scheelite at both upper and lower contact (less 1%)
		48.41	51.50	strong tourm alt'n in chlsch; chlsch is bleached
		51.50	**52.94**	**qtz/tourm vein**
				contacts undulating; 60% qtz/ 40% tourm ; rusty alt'n along fracture planes
		52.94	54.66	strong tourm alt'n inc chlsch; 53-53.25m rusty chlsch w/ incr mica
55.17		**E.O.H.**		**E.O.H.**

DDH04-39A
AZ N/A / Dip -90
415130E/6794370N
Elevation: 1792 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: Aug. 1, 2004
Date Finished: Aug. 1, 2004

From (m)	To (m)	From (m)	To (m)	Description	Sample Number	Depth From (m)	Depth To (m)
0.00	1.52			Casing			
1.52	**50.90**	**Chlorite Schist**		deg tca; minor faulting throughout; minor qtz veining throughout; wk tourm alt'n throughout; some qtz/tourm vein			
		1.52	2.30	minor faults- highly broken core w/ clay			
		4.45	4.71	bleached chlsch w/ minor tourm			
		5.20	**5.42**	**qtz vein with minor tourm**			
				95%qtz/ 5% tourm; upper contact undulating but ~60-65 deg tca			
			8.23	fol 90 deg tca			
		9.50	9.89	minor fault; gouge and broken core			
			12.06	fol 75 deg tca			
			13.39	fol 70-75 deg tca			
		19.18	19.37	minor fault; highly broken core and clay gouge			
			21.77	fol 75 deg tca			
		28.65	29.30	fault; broken core and clay gouge			
		31.18	34.61	fault; highly broken core with clay gouge; some core highly beat up and weakly consolidated			
		34.61	37.71	possible pbx; Ep blebs 36.43-36.92m			
			37.16	fol 70 deg tca			
		37.71	**37.83**	**qtz /tourm vein**			
				boundaries undulating; 70% tourm/30% qtz			
		41.20	**41.35**	**qtz /tourm vein**	390591	41.20	41.35
				vein contacts undulating; 50/50 qtz/tourm vein			
		43.24	43.80	rusty mica rich chlsch w/ minor tourm and some qtz veinlets			
		47.56	**47.75**	**qtz /tourm vein**	390592	47.56	47.75
				contacts undulating; 60% tourm 40% qtz; 1% scheelite			
50.9		**E.O.H.**		**E.O.H.**			

DDH04-40
AZ N/A / Dip -90
414703E/6794508N
Elevation: 1756 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 31, 2004
Date Finished: August 1, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	3.05			Casing
3.05	**50.90**	**Chlorite Schist**		light to dark green grey chlsch as in previous sections; chlsch has sections of mica rich chlsch and strongly alt'd tourm in chlsch; Ep is in blebs sporatically through core; qtz; qtz/tourm veining at various intervals; orientation and size; mod to strong fol/strain
		3.05	4.33	mod tourm alt'n in chlsch; zoned
		4.70	6.98	yellow/grey-green bleached mica (phlog/biotite) rich tourm alt'd chlsch; mod to strong tourm alt'n; some gypsum/qtz veining and fracture coatings @ 6.60-6.71m; tourm zoned and xtaline
		8.79	8.87	Ep blebs
		9.45	12.41	yellow/grey-green bleached chlsch; 9.62-9.82m mica rich and tourm alt'd chlsch; 11.17-12.41m strong zoned tourm in chlsch
		12.41	14.00	highly strained mica (phlog/biotite) rich; mod tourm alt'd chlsch; fol @ 12.95m is ~ 60 deg tca
		15.62	16.83	highly strained mica rich mod to strong tourm alt'd chlsch; mod fol ~ 60 deg tca @16.50
		19.53	20.04	yellow grey green bleached mod to strong tourm alt'd chlsch; wk to mod incr in mica; minor qtz veinlets (mm to 3 cm thick)
		21.42	**21.52**	**qtz/tourm vein**
				tourm mainly around selvedges; contacts undulating; 85% qtz/ 15% tourm
		21.52	23.80	wk to mod tourm alt'n in chlsch
		27.20	27.26	Ep blebs in chlsch
		27.86	28.27	rusty mica rich chslch w/ minor tourm
		29.00	30.26	Ep rich chlsch
		30.38	30.83	highly strained wk bleached chlsch; minor (<1% scheelite); wk to mod tourm and mica present
		31.23	32.03	Ep blebs in chlsch
		32.03	32.20	bleached tourm alt'd strained chlsch
		33.00	35.00	strong tourm alt'n in chlsch w/ qtz/tourm veinlets throughout; incr mica @ 34.32-34.60m
		35.00	**35.35**	**qtz/tourm vein**
				60% tourm 40% qtz; boundaries undulating; 35-35.11m incr mica (musc?); 1% scheelite (mostly @ contacts)
		35.35	36.75	mod to storng tourm alt'n in chlsch
		38.33	**38.71**	**qtz/tourm veinlets**
				in strongly tourm alt'd chlsch; 60% tourm/ 40% qtz
		38.71	39.35	strongly tourm alt'd chlsch

DDH04-40
AZ N/A / Dip -90
414703E/6794508N
Elevation: 1756 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: July 31, 2004
Date Finished: August 1, 2004

From (m)	To (m)	From (m)	To (m)	Description
		39.35	**39.88**	**qtz/tourm veinlets**
				in chlsch that is strongly tourm alt'd; boundaries undulating; 50/50 qtz/tourm
		39.88	41.77	chlsch w/ incr mica (phlog/biotite); wk tourm alt'n; pbx
		41.77	42.58	strong tourm alt'n in chlsch; tourm alt'n zoned; minor qtz blebs
		42.58	43.29	mica rich chlsch
		43.29	43.52	qtz vein; boundaries undulating but general trend 30 deg tca; no tourm; carb present; some bx of chlsch in vein
		44.12	44.90	strong tourm alt'n in chlsch
		44.90	45.16	bleached tourm alt'd mica rich chlsch w/ less 1% scheelite
		45.16	46.50	wk to mod tourm alt'n in chlsch
		46.50	46.76	Ep blebs in chlsch
		47.39	47.84	mod tourm alt'n in chlsch
		47.84	**47.93**	**qtz/tourm vein**
				upper contact undulating; lower contact undulating but ~ 90 deg tca
50.90		**E.O.H.**		**E.O.H.**

DDH04-41
Az N/A/ Dip -90
414688E/6794544N
Elevation: 1754 m

True North Gems
Tsa Da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started:August 1, 2004
Date Finished:August 2, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	2.10			OVB, bedrock bx
2.10	**55.47**	**Chlorite Schist**		
		2.10	5.40	massive to weakly foliated cs, minor pale yellow-green patches with thin qv and rare rusty staining, minor qv barren <5-25 mm thick, folded, fracturing @ 45-50 deg c/a, broken core 2.1-3.0, 3.15-3.3, 3.8-3.9, 4.25-4.45 m, fabric ~60 deg c/a
		5.40	14.50	similar to above with lenses of tourmaline scatterd in blocky cs, minor pcs, typically f to mg zones aggregates oriented from parallel to perpendicular to c/a, typically layers of 5-10 mm thick with coarse xls on periphery, locally bright green chlorite alt'n selvages to 2 cm, minor qv with tourmaline <1cm thick perp c/a, trace cb veins 0-30 deg c/a, typ <3 mm thick wh-->bn, rare rusty sections 12.55-12.65 m, green chlorite zones minor @ 7.9-8.1 m, 10.1-10.3 m, 11.45-11.60 m, fabric >80 deg c/a
		14.50	15.90	as above, with disseminated layers & clots of fg t, abundant rusty fracturing, typ sub perp c/a, anastamosing, no cb, <2-5% T
		15.90	16.80	similar to 5.4-14.5 with increased tourmaline 5-10 % layers, minor qv discontinuous, patchy gn chlorite, elevated bx with irr qv starting @16.65-16.8 m, increased tourmaline to >20%, in chloritized schist minor late cbv.
		16.80	**16.90**	**qv, white, rusty on fractures, <5% T, In QV core, fg with irregular to dendritic (grain boundary) txt. V cuts 75-85 deg c/a**
		16.90	17.65	similar to above cs, brecciated with bright gn chlorite + ~50-60 % touramline generally in clots of <5-15 mm, alteration mod to intense, grades to <10-20% T in gn cs from 17.6-17.65m
		17.65	18.45	mod to highly altered silicified & fs stained cs as per 14.5-15.9m, minor tourmaline <2-4% typ fg diss, more rusty from 18.25-18.35 m in contact with qv
		18.45	18.55	qv, irr fold hinge (?), thick and discontinuous, incipient alt'n
		18.55	18.75	as per 17.65-18.45m, mod to intense rusty alt'n
		18.75	23.30	weakly altered, massive cs grey-gn with patchy lenses of tourmaline as per 5.4-14.5 m, tr po in late oblique fractures, minor folded qv, fabric 75 deg c/a, typ tourm mod to wk zoning, isolated clots to layers up to 15 mm typ, v thin selvages rusty, rare thin qv

From (m)	To (m)	From (m)	To (m)	Description
		23.30	29.70	as per previous with elevated lenses of tourmaline, minor layer parallel qv typ <3-5 cm, with elevated mod-int gn chlorite alt'n or sections of <5-20 cm (see 23.45-23.75 m), tr scheelite <2 mm from 23.5-23.9 m, fabric est 70-75 deg c/a based on t lenses, local ext fr perp to fabric primarily in T lenses, also sch <0.8-10% from 24.1-25.5 m, typ <1-4 mm, typ assoc lt fr, minor blch gy-wh+/-gn patches with q fr v, tourmaline content down from 25 m, and least altered cs continues with ir blching & minor cb pods of <1-3 cm @26.3-26.4 m & 29.05-29.15 m
		29.70	30.15	Heavily altered, rusty with diss T fg and silicified zone from 29.85-29.95 m with fg wh q and 40% vfg-fg T, no zoning of T or vein, lower contact zone more intense bx, rusty alt'n, tr cb, extensive microfractures
		30.15	33.90	incipient, weak t alteration in grey-gn cs similar to 18.75-23.3 m, generally massive txt, elevated T lenses and mod alteration from 30.45-30.6 m, also 33.7-33.8 m, typ gn cs and minor rusty alt'n
		33.90	34.30	heavily altered, massive tourmaline in intense rusty gn cs, stained muscovite & only v minor qz int/s T <5-10 mm thick, patchy bx of cs with rusty lt fr mainly FeOOH, ox; highly sheared from 34.15-34.3 m
		34.30	35.70	massive gy-gn cs similar to 30.15-33.9 m, v minor lenses of T typ <1-2 cm thick granular aggregates
		35.70	38.05	gr-gn to gn, with grey lense-shaped pbx txt with streaky dark, more chlorite-rich, irregular qv folded typ <1-4 cm @37.2-37.4 m, minor associated granular t aggregates @ 37.4-37.5 m, continues as streaky gn-wh sililcified cs from 37.5-37.7 m, rusty staining & T from 37.7-37.8 m, with increasing alteration to 38.05 m
		38.05	**38.20**	**QTV 75-80% 20-25% T, typ int/s irr non-zoned fr-gran agg, late cb fr 15-20 deg c/a; tr sch < 1-2 mm**
		38.20	38.50	heavily tourmalinated similar to above host cs >60% T, chlorite, granular to friable txt, muscovitized, black non zoned near-massive tourmaline
		38.50	38.70	moderately T as above
		38.70	39.80	intensely tourmalinzed as per 38.2-38.5 m, minor drag folds, >50% T, muscovite and chlorite >40%, hrfr fe oxyhydroxides, locally highly friable, minor qv @ 39.65-39.75 m, ext T-filled fr, bright gn cs, fabric est >75 deg c/a

DDH04-41
Az N/A/ Dip -90
414688E/6794544N
Elevation: 1754 m

True North Gems
Tsa Da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started:August 1, 2004
Date Finished:August 2, 2004

From (m)	To (m)	From (m)	To (m)	Description
		39.80	42.30	silicified cs/pcs, minor typ wk alteration, <20% T in tension gash style veins ~80 deg c/a, with horsetails typ 103 cm thick, typ like gn cs with disc qz lenses or 'beds', increased alt'n of chl, minor cc v from 41.65-42.3 m
		42.30	42.85	qt section, ~>40% tourmaline as previous, very friable, granular with blch cs, minor qz, muscovitation with staining, fabric perp c/a, heavily sheared @ 42.55-42.65 m 45-50 deg c/a
		42.85	45.10	weakly altered, locally t-bearing cs, gray-gn with incipient bn fr, T in thin clots or lenses, <5-10 mm, decreasing down and rare from 43.4-44.6 m, increased alteration phyllitic mu, diss v fg t, extensive siliceous lenses from 44.6-45.1 m
		45.10	46.00	(40-50% T), intensely altered as per 42.3-42.85 m, broken rusty core from 45.4-45.7 m, f-->cg tourmaline massive agg to radiating arrays, in chl-sil cs
		46.00	46.60	as per 44.6-45.1m, similar to weak to moderately altered sections above
		46.60	50.75	weakly altered cs-phyllite, minor <1-2% fg diss T & act, locally oblique & folded T veins to 1-2 cm, typically cs/pcs with siliceous layers T lenses to 3 cm thick with selvages to 2 cm, fabric 75-85 deg c/a, minor rusty alt'n from 48.3-48.7m, similar to earlier sections, as per also altered from 46-46.65 m as noted above. Minor bx qz pods from 47.9-48.25 m, angular to lenticular pods, disaggregated & folded v, wh, barren. Increased alt'n also from 49.3-50.75 increasing with depth, fabric 65-75 deg c/a, numerous fold T veins with int. muscovitization @ 50.55-50.65 m, flat axial planes 75-85 deg c/a, weakly alt 50.65-50.75 m
		50.75	51.05	qv with 20-25% fg T, non-zoned, anastomosing mu fabric, granular T <1-10 mm, no sch or ve, fabric parallel v Q locally fe-stained, coarse aggregate or m-->cg T on footwall contact with heavy rusty stianing of peripheral cs
		51.05	51.90	weakly altered gy-gn cs, mionr siliceous sections, similar to less altered sections above
		51.90	52.85	f-->cg alteration mainly t +/-scr and flakes of musc & phl in generally massive, silicified cs
		52.85	53.80	weakly altered, massive with very rare clots of T to 15 mm, similar to unaltered sections above
		53.80	54.15	weak to moderately altered with irr qv, minor rusty staining, in cs, slight increase in alteration with depth to heavy alteration with T, rusty staining, toward wall of QV below, simliar style to vein features above
		54.15	**54.20**	**qv, wh-rusty, minor tourmaline, also fg granular int/s <3mm, <5%**
		54.20	54.30	altered cs as per above
		54.30	54.80	vfg cs with mionr T below 54.7 m. Clots similar to several sections above

DDH04-41
Az N/A/ Dip -90
414688E/6794544N
Elevation: 1754 m

True North Gems
Tsa Da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started:August 1, 2004
Date Finished:August 2, 2004

From (m)	To (m)	From (m)	To (m)	Description
		54.80	55.05	cs with diss T +/-act and phlogopite, pbx txt, chlorite hosting more siliceous lenses, similar to 51.9-52.85 m
		55.05	55.45	fg silicified cs, folded barren qv fabric 85 deg c/a
55.47		**E.O.H.**		**E.O.H.**

DDH04-42
AZ N/A / Dip -90
414717E/6794606N
Elevation: 1743 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: Aug. 2, 2004
Date Finished: Aug. 3, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	2.44			Casing
2.44	**50.90**	**Chlorite Schist**		grey green chslch; wk to strong deformation; qtz/tourm veining and tourm alt'n periodically throughout
		5.33	5.81	rusty mica (phlog/biotite) rich tourm chlsch
			5.72	fol ~60 deg tca
		5.81	6.10	vwk tourm alt'n in chlsch
		6.10	**6.19**	**qtz/tourm vein**
				upper and lower contacts undulating; 95% qtz/ 5 tourm
		8.84	9.75	tourm alt'n (strong throughout)
		9.75	**10.10**	**tourm/qtz vein**
				upper and lower contacts undulating; 90% tourm/ 10% qtz; qtz tends to be in veinlets in tourm; veinlets have random orientation and size (~mm)
		10.67	**10.76**	**qtz/tourm veinlets**
				90% tourm / 10% qtz
		12.00	13.33	tourm alt'n- mod throughout
		13.33	**13.51**	**qtz/tourm vein**
				contacts undulating; 55% qtz/ 45% tourm; most tourm concetrated in first 10cm of vein
		14.83	18.63	incr strain from wk to mod/strong; multiple stages of veining (at least 2...crosscutting relationships)
				veins have various oreintation and size (mm); 17.93m fol 80 deg tca
		18.63	**18.90**	**qtz/tourm vein**
				upper and lower contacts indistinguishable because of broken core; 75% qtz/ 25% tourm
		18.90	**19.11**	**rusty tourm/qtz veinlets**
				in chlsch; 80% tourm/20% qtz in rusty chlsch
		19.11	19.21	rusty chlsch w/ wk tourm alt'n
		19.21	**19.50**	**qtz/tourm veinlets**
				in rusty chlsch; veinlets have random oreintation and size (3-6cm); contacts undulating; tourm mainly at vein boundaries
		19.50	20.45	fault-highly broken core w/ minor clay, clasts size mm-4cm
		20.45	22.43	highly strained section of moderately rusty chlsch
		22.43	**22.61**	**qtz vein w/ minor tourm**
				~1% tourm; upper and lower contacts undulating
		22.61	29.85	highly strained chlsch; fol varies but is sub perpendicular to CA
		29.85	**29.92**	**qtz vein w/ minor tourm**

DDH04-42
AZ N/A / Dip -90
414717E/6794606N
Elevation: 1743 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: Aug. 2, 2004
Date Finished: Aug. 3, 2004

From (m)	To (m)	From (m)	To (m)	Description
				~2% tourm; contacts undulating
		30.06	**30.14**	**qtz/tourm veinlets**
				in chlsch; 50% qtz/ 50% tourm in chlsch
		30.14	34.10	highly strained chlsch
		34.10	41.65	mod stained chlsch; 37.60 fol 55-60 deg tca
		41.65	**41.69**	**qtz/tourm veinlets**
				contacts undulating; tourm at vein margins; 50% qtz/50% tourm
		41.69	42.04	minor tourm alt'n in chlsch
		42.04	**42.10**	**qtz/tourm vein**
				vein margins undulating; 70%qtz/ 30% tourm
		44.19	**44.60**	**rusty qtz/tourm veinlets**
				in chlsch; contacts wkly undulating but ~ 65-70 deg tca; 50% qtz/50% tourm
		44.60	48.57	highly strained chlsch
		48.57	48.76	qtz veinlets in chlsch; veinlets have random size and oreinetation (1-3cm)
		49.38	50.90	chlsch w/ incr mica (phlog/biotite); 50.60m fol ~45 deg tca
50.90		**E.O.H.**		**E.O.H.**

DDH04-43
AZ N/A / Dip -90
414751E/6794588N
Elevation: 1742 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: Aug. 7, 2004
Date Finished: Aug.8, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	3.35			Casing
3.35	**54.04**	**Chlorite Schist**		grey green chlsch; mod to strong fol/strain throughout; tremolite/actinolite in sections; incr mica throughout; qtz and qtz/troum vein with tourm rich alt'n in chlsch; minor faulting at start of hole.
		3.35	9.29	highly broken chlsch w/ some rusty alt'n; some clay gouge throughout; minor fault
		10.47	14.17	minor fault as above
		14.17	**15.70**	**rusty qtz/tourm in chlsch**
				undulating bourdaries; 85% qtz/ 15%tourm; 14.53-15.70m incr mica in chlsch; 14.53-15.70m mostly strong tourm alt'n in mica rich chlsch
		15.70	19.95	highly strained dark grey green chlsch w/ strained qtz (?) banded veinlets; looks like zebra stripes; fol ranges from 85-90 deg tca @ 17m to 60-70 deg tca @ 19m; 18.43-19.95m; tremolite/actinolite present throughout
		19.95	24.56	tremolite/actinolite rich chlsch w/ incr mica and some tourm
		25.98	**26.55**	**qtz/tourm vein**
				contacts undulating; 25.98-26.27m 50/50 qtz/tourm; 26.27-26.42m - 90% qtz/10%tourm; 26.42-26.55m - 80% tourm/ 20% qtz
		27.38	28.74	strong tremolite/actinolite in chlsch
		30.22	31.81	incr mica in chlsch fol @ 31.00m is 50 deg tca
		31.81	32.31	strong tourm alt'n in chlsch
		32.31	**33.06**	**tourm/qtz vein**
				boundaries irregular; 70% tourm; 30% qtz blebs of Po throughout; 32.58m blebs of cpy; tourm is xtal'n; ~1% scheelite throughout
		33.06	35.49	mod to strong tourn alt'n in chlsch
		35.49	36.29	chlsch w/ Ep/bleached blebs
		36.29	36.55	strong tourm alt'n in chlsch
		36.55	37.12	qtz/tourm vein
				vein has boundaries that are irregular; veins parallel to CA; 85% qtz; 15% tourm
		37.12	37.40	strong tourm alt'n in chlsch
		37.40	**37.74**	**qtz/tourm vein**
				vein boundaries undulating; 60% tourm 40% qtz; tourm tends to xtal'n; 37.45-37.64m Po blebs throughout; wk scheelite throughout
		37.74	38.05	strong tourm alt'n in chlsch; blebs of Po throughout; minor qtz veinlets

DDH04-43
AZ N/A / Dip -90
414751E/6794588N
Elevation: 1742 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: Aug. 7, 2004
Date Finished: Aug.8, 2004

From (m)	To (m)	From (m)	To (m)	Description
		39.02	41.52	incr mica in chlsch
		43.04	43.23	mod tourm alt'n inc chlsch
		43.23	**43.40**	**qtz/tourm vein**
				boundaries undulating but~90 deg tca; 80% qtz/20% tourm
		43.40	44.19	strong tourm alt'n in chlsch w/ possible actinolite/tremolite
		44.23	46.23	Ep/belached blebs in chlsch
		46.23	50.66	strong tourm alt'n in chlsch; zoned and xtal tourm; 48.22-48.37m wk scheelite; Ep/bleached blebs in chlsch throughout; 49.77-50.0m rusty carb veinlets throughout
		50.66	**50.87**	**qtz/tourm vein**
				boundaries undulating; 70% tourm/ 30% qtz; 1-5% scheelite; incr mica; wk Po
		50.87	51.23	strong tourm alt'n in chlsch
		51.23	**51.50**	**qtz/tourm vein**
				boundaries undulating; mica rich; 80% qtz/20% tourm; blebs of Po
		51.50	52.83	strong tourm alt'n in chlsch; 2cm qtz vein w minor tourm (95% qtz' 5% tourm)
		52.83	**53.16**	**qtz/tourm vein**
				contacts undulating; tourm mainly at contacts; 55% qtz/ 45% tourm
		53.16	54.04	vwk tourm alt'n
54.04		**E.O.H.**		**E.O.H.**

DDH04-44
AZ N/A / Dip -90
414650E/6794575N
Elevation: 1736 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: Aug. 3, 2004
Date Finished: Aug.4, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	2.13			Casing
2.13	**53.64**	**Chlorite Schist**		chlsch w/ mod to strong tourm alt'n throughout; qtz veins and qtz/tourm veins throughout; dark grey green in colour; wk fol/strain
		4.22	6.38	mod zoned tourm alt'n in chlsch
		6.38	6.87	strong zoned tourm alt'n in chlsch; > 1% scheelite
		6.87	8.29	wk to mod rusty chlsch w/ incr mica (phlog/biotite)
		9.14	10.34	minor fault w/ clay/sand and highly broken core
		10.34	10.72	strong tourm alt'n in chlsch
		11.47	11.76	series of qtz veinlets in chlsch; veis are broken/offset by micro faults
		12.38	12.48	strong xtal tourm alt'n in chlsch
		14.46	14.62	strong xtal and zoned tourm alt'n in chlsch
		15.36	15.41	Ep in chlsch
		15.44	17.62	16.30-16.45m 1% scheelite; tr throughout rest of section; strong tourm alt'n in chlsch w/ rusty fracture surfaces
		17.62	**17.70**	**qtz/tourm vein**
				broken up core therefore contacts undefined; ~60%qtz/40% tourm
		17.70	18.04	strong tourm alt'n in chlsch; rusty fracture surfces; zoned tourm
		18.04	18.13	strong xtal tourm alt'n in chlsch
		18.13	18.88	strong tourm alt'n in chlsch; felted, xtal and zoned tourm
		18.88	**19.09**	**qtz/tourm vein; VE**
				VE present in qtz/tourm vein @ 19.02-19.09m; 18.88-19.02m is qtz w/ minor tourm (< 5%); 19.02-19.09m is tourm rich qtz vein 70% tourm/ 30% qtz
				VE present in zone almost the circumference of core (all but 5 cm of 20 cm circumference); VE occurs in subhedral; xtal faces; emeralds have hexagonal shape visible;
				VE occurs in several pods (~3) within vein; vein boundaries are undulating but general trend of vein is approx 60-65 deg tca; no scheelite present
		19.09	20.24	strong tourm alt'n in chlsch w/ rusty alt'n throughout especially along fracture surfaces
		21.99	**22.12**	**qtz/tourm veinlets**
				contacts undulating; 75% tourm / 15% qtz; hosted in strongly tourm alt'd chlsch
		22.74	23.99	mica rich chlsch
		24.97	**25.15**	**qtz vein w/ minor tourm**

DDH04-44
AZ N/A / Dip -90
414650E/6794575N
Elevation: 1736 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: Aug. 3, 2004
Date Finished: Aug.4, 2004

From (m)	To (m)	From (m)	To (m)	Description
				contacts undertermined because of broken rock; 90% qtz/10% tourm
		25.15	26.94	mod tourm alt'd chlsch w/ rusty alt'n in veins and along fracture surfaces; minor qtz veinlets throughout; broken rock w/ minor clay
		26.94	**28.70**	**qtz/tourm veinlets**
				in strongly alt'd chlsch; 1% scheelite throughout section; veinlets have undulating contacts; 65% tourm/ 35% qtz; Po found throughout section @ 27.27m and 28.13m; 28.46m-28.70m mainly qtz
		28.70	29.64	strongly tourm alt'd chlsch
		31.70	**31.95**	**qtz/tourm veinlets**
				in strongly tourm alt'd chlsch; incr mica present; veins have undulating contacts; 70% tourm; 30% qtz
		34.14	34.87	broken core w/ minor clay/sand
		34.87	35.05	strong tourm alt'n in chlsch
		35.05	**35.78**	**qtz vein w/ minor tourm**
				highly broken; 90% qtz/ 10% tourm
		37.16	38.16	mod to strong tourm alt'n in chlsch
		38.16	**38.21**	**qtz/ tourm vein**
				tourm mainly at selvedges; 85% qtz/ 15% tourm
		38.21	39.53	mod tourm alt'n in chlsch
		39.53	**39.68**	**qtz/tourm veinlets**
				tr scheelite; veins undulating; 70% tourm/ 30% qtz
		39.68	41.06	mod tourm alt'n in chlsch
		41.06	**41.25**	**qtz vein w/ minor tourm**
				in chlsch; 85% qtz/ 15%tourm
		45.34	**45.41**	**qtz/tourm vein**
				upper contact ~75 deg tca; lower contact ~ 90 deg tca; 75 % qtz/ 25% tourm
		47.84	48.25	wk to mod tourm alt'n in chlsch
		48.25	**48.33**	**tourm/qtz vein**
				85% tourm/ 15% qtz; core is highly broken
		49.54	**49.83**	**qtz/vein**
				w/ minor tourm; core broken; 85%/qtz/ 15% tourm
		49.83	50.40	minor fault, broken core with minor clay
53.64		**E.O.H.**		**E.O.H.**

DDH04-45
AZ N/A / Dip -90
414750E/6794482N
Elevation: 1767 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: Aug. 3, 2004
Date Finished: Aug.4, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	1.52			Casing
1.52	**62.48**	**Chlorite Schist**		grey green chlsch w/ mod to strong deformation throughout; qtz and qtz/tourm veins with tourm alt'n throughout
		1.52	2.85	fault; highly broken core; sand and clay
		2.85	4.58	wk tourm alt'n in chlsch
		4.58	**4.75**	**qtz/tourm vein**
				upper and lower contacts slightly undulating but ~85-90 deg tca; 60% qtz/40% tourm; 4.68-4.73m there is section of qtz/gypsum/talc +/- musc veining
		4.75	5.29	wk tourm alt'n in chlsch
		5.29	5.59	strong felted and xtal tourm
		5.59	6.26	wk tourm alt'n in chlsch
		6.26	**6.30**	**qtz/tourm vein**
				upper and lower contacts undulating but ~ 85-90 deg tca; 85% qtz/ 15% tourm
		6.30	9.40	wk tourm alt'n in chlsch
		11.07	12.46	wk tourm alt'n in chlsch
		12.46	**12.71**	**qtz/tourm vein**
				contacts undulating; 50% qtz/ 50% tourm; tr scheelite
		12.71	13.35	wk tourm alt'n in chlsch
		13.35	**13.55**	**qtz/tourm vein**
				contacts undulating; 50% qtz/ 50% tourm; tr scheelite
		13.55	13.69	chlsch w/ 30% rusty mica rich chlsch
		13.69	**13.82**	**qtz/tourm vein**
				contacts undulating but general trend is 45 deg tca; 80% qtz/ 20% tourm
		13.82	15.24	wk tourm alt'n in chlsch
		15.68	17.25	chlsch w/ incr mica (phlog/biotite)
		17.25	**17.41**	**qtz/tourm vein**
				70% tourm, 30% qtz; contacts undulating; some mica rich chlsch throughout; ~1% scheelite
		17.41	17.93	mod tourm alt'n in chlsch
		17.93	**18.04**	**qtz/tourm vein**
				contacts undulating; 70% tourm/ 30% qtz; < 1% scheelite

DDH04-45
AZ N/A / Dip -90
414750E/6794482N
Elevation: 1767 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: Aug. 3, 2004
Date Finished: Aug.4, 2004

From (m)	To (m)	From (m)	To (m)	Description
		18.04	27.66	wk to mod tourm alt'n in chlsch; 21.42-23.16m incr mica (phlog/biotite); fol 65-70 deg tca @ 22.50; 26.53-27.24m qtz/talc/gypsum vein mm in thickness parallel to CA
		27.66	38.08	chlsch w/ incr veining; veins have random oreintation and size (mm-3cm); 35.03m fol 60 deg tca; 37.34 fol 60 deg tca
		38.08	40.06	mod to strong tourm alt'n in chlsch; 38.35-38.57m qtz veining in tourm alt'd chlsch; 38.71-38.78m qtz vein as before; 38.57-39.62 incr mica (phlog/ biotite)
		40.06	**40.26**	**qtz/tourm vein**
				80% qtz/ 20% tourm; some talc/gypsum in fracture coatings; boundaries undulating; <1% scheelite (especially at upper contact)
		40.26	45.49	strong tourm alt'n in chlsch; minor bull qtz vein throughout w/ random orientation and size (mm-2cm)
		45.49	**45.72**	**qtz/tourm vein**
				contacts undulating ; 50%/tourm/50% qtz
		45.72	45.92	mod tourm alt'n in chlsch
		45.92	**46.02**	**qtz/tourm vein**
				contacts undulating; 50% qtz/ 50% tourm
		46.02	47.12	strong tourm alt'n in chlsch; zoned tourm
		47.12	56.05	mod to strong tourm alt'n in chlsch
		56.05	**56.20**	**qtz/tourm vein**
				contacts undulating; ~1% scheelite (especially @ upper contact); 85% qtz/ 15% tourm
		56.20	59.11	mod tourm alt'n in chlsch
		59.11	**59.57**	**qtz/tourm vein**
				contacts undulating; 1% scheelite throghout expecially @ contacts; folding of tourm/qtz veinlets in vein; secondary qtz/carb? veining; 50% tourm/50% qtz
		59.57	62.14	mod tourm alt'n in chlsch
		62.14	62.48	strongly folded mica (phlog/biotite) in chlsch
62.48		**E.O.H.**		**E.O.H.**

DDH04-46
AZ N/A / Dip -90
414795E/6794472N
Elevation: 1772 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: Aug. 6, 2004
Date Finished: Aug.7, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	1.52			Casing
1.52	**53.00**	**Chlorite Schist**		grey green wk foliated chlsch w/ qtz veins and qtz/tourm veins w/tourm alt'n in chlsch, veins have random orientation
		7.10	9.00	mod tourm alt'n in chlsch; tourm alt'n occurs in pods
		9.50	9.60	Ep blebs in chlsch
		10.30	11.90	mod to strong tourm alt'n in chlsch
		13.31	17.80	mod to strong tourm alt'n in chlsch
		17.80	**18.06**	**qtz/tourm vein**
				vein boundaries irregular but ~ 85-90 deg tca; 90% qtz/10% tourm
		20.35	21.63	strong tourm alt'n in chlsch
		26.94	28.19	mod tourm alt'n in chlsch;
		28.19	**28.80**	**qtz/tourm vein**
				in chlsch; contacts undulating; 50/50% qtz/tourm
		28.80	29.39	strong tourm alt'n in chlsch
			29.96	fol in ~80 deg tca
		30.03	33.30	mod to strong tourm alt'n in chlsch
		33.30	**33.36**	**qtz/tourm vein**
				95% qtz/ 5% tourm; contacts undulating ~ 90 deg tca
		33.36	35.34	tourm alt'n in chlsch; 33.36-34.50 strong alt'n; 34.50-35.34 wk to mod alt'n
		35.34	36.76	chlsch w/ incr mica and Ep blebs throughout
		36.76	40.06	strong tourm alt'n in chlsch
		40.06	**40.09**	**qtz/tourm vein**
				boundaries undulating; 60% qtz/40% tourm
		40.09	43.13	strong tourm alt'n in chlsch
		43.13	**43.92**	**series of qtz/ tourm veinlets**
				in strong tourm alt'd chlsch; veinlets have random orientation and size (mm to 4 cm)
		43.92	45.40	mod tourm alt'n in chlsch
		45.40	**46.72**	**qtz vein in chlsch and tourm alt'd chlsch**
				veins have random orientation and size mm to 10 cm; some very wk tourm (tr tourm)
		47.67	48.26	incr mica in chlsch
		48.26	49.06	strong tourm alt'n in chlsch

DDH04-46
AZ N/A / Dip -90
414795E/6794472N
Elevation: 1772 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: Aug. 6, 2004
Date Finished: Aug.7, 2004

From (m)	To (m)	From (m)	To (m)	Description
		49.06	**49.15**	**qtz/tourm vein**
				contacts undulating; 1% scheelite; 60% qtz/40% tourm
		49.15	51.74	strong tourm alt'n in chlsch
		51.74	**51.87**	**qtz/tourm vein**
				vein boundaries undulating; less 1% scheelite mainly at vein contacts; 75% qtz, 25% tourm
		51.87	52.15	mod to strong tourm alt'n in chlsch
53.00		**E.O.H.**		**E.O.H.**

DDH04-47
Az N/A/ Dip -90
414990E/6794476N
Elevation: 1795 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started:Aug. 4, 2004
Date Finished:Aug. 5, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	1.52			Casing
1.52	**51.82**	**Chlorite Schist**		grey green chlorite schist, sections of rusty chlorite schist, qtz and qtz/tourm veins, tourmaline alteration in chlorite schist, moderate foliation, blebs of epidote and bleached sections, sections of increasing mica
		1.83	**1.92**	**quartz tourmaline vein**
				contacts indeterminable because of broken core, vein is rusty, 90% quartz, 10% tourmaline
		3.40	3.50	quartz vein in chlorite schist, contacts undulating, rusty vein
		4.49	**4.89**	**quartz tourmaline vein**
				contacts indeterminable because of broken core, 95% quartz, 5% tourmaline
		4.89	5.40	weak to moderate tourmaline alteration in chlorite schist
		6.09	7.30	rusty chlorite schist with weak tourmaline alteration
		9.05	**9.12**	**quartz tourmaline vein**
				contacts undulating, 80% quartz/20% tourmaline
		9.25	9.34	rusty quartz tourmaline vein, boundaries undulating, 70% quartz/30% tourmaline
		9.46	9.59	quartz vein with minor tourmaline, 99% quartz/1% tourmaline, upper contact undulating, lower contact ~50 deg to CA
		9.59	11.82	weak to modeate tourmaline alteration in chlorite schist
		12.40	13.03	strong tourmaline alteration in chlorite schist
		13.03	13.59	rusty chlorite schist with possible straw yellow sericite and carbonate veinlets
		14.63	15.97	weak to moderate tourmaline alteration in chlorite schist
		15.97	**16.45**	**quartz tourmaline vein**
				upper contact at ~85 to CA, lower contact undulating, 15.97-16.25m --> 80% quartz/20% tourmaline, 16.25-16.45m --> 85% tourmaline/15% quartz, fracture surfaces are undulating
		17.15	18.19	epidote/bleached blebs in chlorite schist and quartz
		18.19	19.30	increased mica in chlorite schist
		19.30	**19.36**	**quartz (possible aplite) vein with minor tourmaline, contacts undulating, 99% quartz/1% tourmaline**
		19.76	20.78	increased mica in chlorite schist, 20.00m foliatoin 80 deg c/a
		21.80	23.05	broken core with frequent clay gouge throughout --> minor fault
		23.05	24.38	increased mica (phlogopite and biotite), minor (weak) tourmaline throughout
		24.38	34.63	quartz vein in chlorite schist, undulating boundaries

DDH04-47
Az N/A/ Dip -90
414990E/6794476N
Elevation: 1795 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started:Aug. 4, 2004
Date Finished:Aug. 5, 2004

From (m)	To (m)	From (m)	To (m)	Description
		24.69	25.55	weak to moderate tourmaline altered mica rich chlorite schist
		15.55	25.67	strong tourmaline alteration in chlorite schist
		25.67	**26.18**	**quartz tourmaline vein, contact undulating, 60% quartz/40% tourmaline**
		26.18	**26.30**	tourmaline vein contacts undulating
		26.30	27.09	rusty mica rich tourmaline altered chlorite schist
		27.09	**27.26**	**quartz tourmaline vein, contacts undulating, 80% quartz/20% tourmaline**
		27.33	**27.39**	**quartz tourmaline vein, contacts undulating, 70% quartz/30% tourmaline**
		27.39	30.00	strong tourmaline alteration in mica rich chlorite schist
		30.00	**30.15**	**tourmaline quartz vein, contacts undulating, 90% tourmaline/10% quartz**
		30.15	32.23	strong tourmaline alteration in chlorite schist
		33.23	36.07	chlorite schist with epidote/bleached blebs in quartz and in chlorite schist, 35.51-36.07m rusty chlorite schist
		36.80	37.49	broken core and clay gouge
		38.08	40.05	weak tourmaline alteration in mica rich chlorite schist
		40.05	41.44	strong tourmaline alteration in chlorite schist (mica rich chlorite schist)
		41.44	**41.93**	**tourmaline quartz vein, contacts undulating, 75% tourmaline/25% quartz**
		41.93	43.68	strong tourmaline alteration in mica rich chlorite schist, 42.25-42.40 rusty alteration, 42.40-43.68 highly broken core and fault gouge
		43.68	44.35	strong tourmaline alteration in rusty chlorite schist
		44.35	**44.63**	**quartz tourmaline vein, vein contacts undulating, 50% tourmaline/50% quartz**
		44.63	45.41	moderate tourmaline alteration in chlorite schist
		45.41	47.20	increasing mica (phlogopite/biotite) in chlorite schist, 46.15m foliation 60 deg c/a, 47.15m foliation is 60-65 deg c/a
		47.20	50.17	moderate tourmaline alteration in chlorite schist
50.29		**E.O.H.**		**E.O.H.**

DDH04-48
Az N/A/ Dip -90
414949E/6794503N
Elevation: 1782 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started:Aug 5, 2004
Date Finished:Aug 6, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	1.52			casing
1.52	**54.56**	**Chlorite Schist**		grey green chlorite schist, weak to moderate foliated, quartz and quartz tourmaline veins that have random orientation and size; sections of increasing mica throughout, weak to strong tourmaline alteration in chlorite schist
		1.88	2.00	quartz veining in chlorite schist, boundaries undulating
		6.92	7.48	rusty chlorite schist with rusty fracture surfaces, **7.19-7.23m quartz tourmaline vein**, vein boundaries undulating but ~90 CA, 50/50 quartz tourmaline veins
		11.25	**11.33**	**quartz tourmaline vein**
				vein boundaries undulating, 70/30% tourmaline/quartz
		13.25	13.50	increasing mica (biotite/phlogopite) in chlorite schist
		14.33	15.00	moderate to strong tourmaline alteration in chlorite schist
		15.00	**15.24**	**quartz tourmaline vein, vein boundaries undulating, 80% quartz, 20% tourmaline**
		15.24	15.62	moderate tourmaline alteration in chlorite schist
		15.62	**15.69**	**quartz tourmaline vein, contacts undulating, 50/50 quartz tourmaline**
		15.69	15.74	weak tourmaline alteration in chlorite schist
		15.74	**16.45**	**quartz tourmaline vein**
				vein boundaries undulating, 16.18 to 16.45 - 95% tourmaline, 5% quartz, 15.74-16.18 65% quartz, trace scheelite
		16.45	19.45	weak tourmaline alteration in chlorite schist
		19.45	20.26	strong tourmaline alteration in chlorite schist
		20.26	**20.60**	**quartz tourmaline vein**
				vein boundaries undulating, 60% quartz, 40% tourmaline, 1-5% scheelite
		20.60	23.50	moderate to strong tourmaline alteration in chlorite schist
		23.50	**23.59**	**quartz tourmaline vein**
				vein boundaries undulating, 50/50 quartz tourmaline
		23.59	27.26	moderate tourmaline alteration in chlorite schist, 24.57-25.33 increasing mica
		27.26	**27.29**	**quartz tourmaline vein**
				boundaries undulating, 90% quartz, 10% tourmaline
		27.33	27.40	epidote blebs in chlorite schist
		27.40	29.07	chlorite schist with increasing mica, epidote blebs present throughout
		29.07	32.05	weak tourmaline alteration in chlorite schist

DDH04-48
Az N/A/ Dip -90
414949E/6794503N
Elevation: 1782 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started:Aug 5, 2004
Date Finished:Aug 6, 2004

From (m)	To (m)	From (m)	To (m)	Description
		32.05	32.28	quartz veins in strongly tourmaline altered chlorite schist, veins have undulating boundaries
		32.28	32.35	strong tourmaline alteration in chlorite schist
		32.35	**32.54**	**quartz tourmaline vein**
				<1% scheelite, vein boundaries undulating, 50/50 quartz tourmaline
		32.54	37.79	moderate to strong tourmaline alteration in chlorite schist, sections of increasing mica (biotite, phlogopite) from 33.53-34.11m and 35.30-35.50m and 37.10-37.79m; 36.00-36.16m strong tourmaline alteration in mica rich chlorite schist with ~1% scheelite
		37.79	**38.00**	**tourmaline quartz vein**
				vein contacts undulating, mica rich especially at upper contact, 95% tourmaline, 5% quartz
		38.00	38.19	strong tourmaline alteration in chlorite schist
		38.19	**38.92**	**quartz tourmaline veins in mica rich strongly tourmaline altered chlorite schist, vein boundaries undulating, range in size from mm-6 cm, ~1% scheelite, 45% quartz, 55% tourmaline**
		38.92	41.26	weak to moderate tourmaline alteration in chlorite schist
		41.26	41.32	quartz vein with tourmaline at selvages, boundaries slightly undulating but ~85-90 deg CA
		41.32	41.38	strong tourmaline alteration in chlorite schist
		41.38	**41.47**	**quartz tourmaline veins**
				in strongly altered chlorite schist, vein boundaries undulating, 85% quartz, 15% tourmaline
		46.67	46.74	strongly folded quartz veinlet in chlorite schist
		47.58	49.18	weak tourmaline alteration in chlorite schist
		49.18	49.63	strong tourmaline alteration in chlorite schist
		49.63	50.22	rusty (possible) carbonate altered (rusty red/orange altered replacement) tourmaline rich quartz/carbonate vein breccia, <1% scheelite, 49.63-49.72 rock is busted up and unconsolidated
		50.61	51.51	strong tourmaline alteration in chlorite schist
		51.51	**51.67**	**rusty quartz tourmaline vein**
				tourmaline mostly along vein boundaries, 75% quartz, 25% tourmaline, boundaries undulating
		51.67	53.04	strong tourmaline alteration in chlorite schist
		53.04	54.56	chlorite schist with increasing quartz veining throughout, vein boundaries undulating, range in size from mm-3cm, increasing mica
54.56		**E.O.H.**		**E.O.H.**

DDH04-52A
Az 150/ Dip -60
414721E/6794543N
Elevation: 1764 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: Aug.16, 2004
Date Finished: Aug.17, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	1.52			casing
1.52	**67.66**	**Chlorite Schist**		dark grey green weakly foliated chlorite schist, quartz and quartz tourmaline veins with tourmaline alteration in chlorite schist
		1.52	4.21	strongly tourmaline altered chlorite schist, rusty alteration throughout especially along fracture planes and in mm size veinlets
		5.07	**5.13**	**quartz tourmaline veins**
				vein contacts undulating 80% quartz, 20% tourmaline
		5.13	5.30	strong tourmaline alteration in chlorite schist
		9.76	**10.03**	**quartz tourmaline vein**
				vein boundaries undeterminable because of broken core, 9.85-9.96 m concentrated tourmaline, 50% quartz, 50% tourmaline
		12.38	**12.61**	**quartz veinlets with tourmaline**
				veinlets have random orientation and size, 75% quartz, 25% tourmaline, veins in chlorite schist
		16.81	**16.88**	**tourmaline quartz vein**
				in chlorite schist with minor amounts of carbonate, boundaries undulating, 95% tourmaline, 5% quartz
		18.14	20.70	moderate to strong tourmaline alteration in chlorite schist, 20.56-20.71m bleached tourmaline altered chlorite schist
		20.91	20.98	epidote blebs in chlorite schist
		21.71	22.62	weak to moderate tourmaline alteration in chlorite schist
		22.62	**22.76**	**quartz tourmaline vein**
				vein contacts undulating 65% tourmaline, 25% quartz
		22.76	22.96	strong tourmaline alteration in chlorite schist
		22.96	**23.05**	**quartz tourmaline vein**
				in chlorite schist, 70% tourmaline, 30% quartz, vein boundaries undulating
		23.05	23.97	moderate tourmaline alteration in chlorite schist
		23.97	30.39	weak to moderate tourmaline alteration in chlorite schist
		30.71	30.90	quartz breccia vein, quartz with chlorite schist fragments throughout, carbonate throughout
		36.86	37.12	mica (phlogopite/biotite) rich chlorite schist
		37.29	38.25	weak tourmaline alteration in chlorite schist

DDH04-52A
Az 150/ Dip -60
414721E/6794543N
Elevation: 1764 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: Aug.16, 2004
Date Finished: Aug.17, 2004

From (m)	To (m)	From (m)	To (m)	Description
		39.37	42.86	increasing quartz veining in green chlorite schist, secondary carbonate veinlets throughout, some gypsum ? veinlets throughout, veins have random orientation and size (mm-4cm)
		45.10	48.70	strong tourmaline alteration in chlorite schist
		50.90	52.68	strong tourmaline altered bleached chlorite schist
		52.68	53.55	weak to moderate tourmaline alteration in chlorite schist
		56.80	57.70	epidote blebs in chlorite schist
		57.80	66.25	moderate to strong zoned tourmaline alteration in chlorite schist 65.36-65.26 m epidote blebs in chlorite schist
		66.25	66.90	mica rich (phlogopite/biotite) chlorite schist with moderately zoned tourmaline alteration
		66.90	67.66	moderately zoned tourmaline alteration in chlorite schist
67.66		**E.O.H.**		**E.O.H.**

DDH04-53
Az NA/ Dip -90
414587E/6794689N
Elevation: 1716 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: Aug. 8, 2004
Date Finished:Aug 8, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	1.52			casing
1.52	**51.62**	**Chlorite Schist**		green grey chlorite schist, sections of increasing mica (phlogopite/biotite), qtz and qtz tourm veins with tourm alt'n in chlorite schist
		2.78	**2.86**	**quartz tourmaline vein**
				boundaries irregular but ~90 deg CA, 80% quartz, 20% tourmaline
		7.06	7.62	increasing mica (phlogopite/biotite) in chlorite schist
		12.59	12.76	fault/clay seams up to 1 cm thick
		14.77	15.18	rusty chlorite schist with weak tourmaline
		16.29	17.53	moderate tourmaline alteration in chlorite schist
		17.53	**17.71**	**quartz tourmaline vein**
				in strongly altered chlorite schist, vein irregular, 90% quartz, 10% tourmaline
		17.71	18.14	strong tourmaline alteration in chlorite schist
		18.14	18.51	epidote blebs in chlorite schist
		18.51	18.97	strong tourmaline alteration in chlorite schist
		21.33	24.96	increasing mica (phlogopite/biotite)
		28.06	29.90	moderate tourmaline alteration in chlorite schist
		29.90	31.86	mica rich weak tourmaline altered chlorite schist
		31.86	32.45	strong tourmaline alteration in chlorite schist
		32.45	**33.84**	**quartz tourmaline vein**
				contacts undulating, 70% qtz, 30% tourm, 32.45-32.92m qtz tourm about 50/50%, 32.92-33.54m mainly bull qz with weak tourm (<1%), 33.54-33.84 qtz tourm w/ 50/50%
		33.84	35.05	moderate to strong tourmaline alteration in chlorite schist
		35.05	35.78	increasing mica (phlogopite/biotite) in chlorite schist
		35.78	38.41	moderate to strong tourmaline alteration in chlorite schist
		38.41	41.50	weak tourmaline alteration in chlorite schist
		41.50	41.82	rusty weak to moderate tourmaline altered chlorite schist
		41.82	43.30	strong tourmaline alteration in chlorite schist
		43.30	**43.60**	**tourmaline vein with minor quartz, contacts irregular**
		43.60	44.93	moderate tourmaline alteration in chlorite schist with rusty altered veins and fracture surfaces
		44.93	**44.98**	**quartz tourmaline vein**
				irregular boundaries, 60% quartz, 40% tourmaline

DDH04-53
Az NA/ Dip -90
414587E/6794689N
Elevation: 1716 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: Aug. 8, 2004
Date Finished:Aug 8, 2004

From (m)	To (m)	From (m)	To (m)	Description
		44.98	46.95	weak tourmaline alteration in chlorite schist
		46.95	51.62	mica rich (phlogopite/biotite) chlorite schist
51.21		**E.O.H.**		**E.O.H.**

DDH04-54
AZ N/A / Dip -90
414551E/6794733N
Elevation: 1697 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: Aug. 7, 2004
Date Finished: Aug.8, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	1.22			Casing
1.22	**51.82**	**Chlorite Schist**		chlsch; green grey; wk fol; qtz, qtz/tourm and aplite veins throughout; veins have random orientation and size (mm-30 + cm); Ep blebs throughout
		1.22	10.67	brown alt'n in fracture planes
		1.22	**3.23**	**qtz/tourm vein**
				boundaries undulating; 1.22-2.00m 70%qtz/ 30% tourm; 2.00-2.87m 90% qtz/ 10% tourm; 2.87-3.12m 50% qtz/ 50% tourm; 3.12-3.23m qtz vein (100% qtz)
		8.10	**8.18**	**qtz/tourm vein**
				in chlsch; boundaries undulating; 60% tourm/ 40% qtz
		9.30	9.58	mod tourm alt'n in chlsch
		9.58	**9.68**	**tourm/qtz vein**
				in chlsch; 85% tourm/ 15% qtz
		9.68	9.92	strong tourm alt'n in chlsch
		9.92	**10.10**	**tourm/qtz vein**
				vein contacts undulating; 80% tourm/ 20% qtz
		14.14	16.20	SSF throughout section w/ qtz veins; 14.46m fol 70 deg tca; **15.09-15.14m qtz/tourm** vein; vein boundaries undulating; 85% qtz/ 15% tourm; 16.00 blebs of cpy
		16.64	16.98	qtz vein in chlsch
		21.46	22.41	Ep blebs in chlsch
			22.60	fol is 70 deg tca
		22.95	23.30	qtz veins in chlsch; random orientation and size
		26.37	27.00	qtz veining in chlsch; veins have random orientation (but~90 deg tca) and size (mm-5cm)
		27.98	28.02	Ep blebs in chlsch or bleached section
		30.20	30.33	qtz veins w/ Ep blebs; upper contact ~ 80 deg tca; lower contact undulating
			31.00	fol 80 deg tca
		31.11	34.10	wk tourm alt'n in chlsch; 31.53-31.85m Ep blebs in chlsch
			34.30	SSF
		34.30	35.44	round to subround to oval blebs of brown green concentrically zoned min; white rins; tend to be in a semi bleached zone; qtz blebs throughout section
		39.63	42.31	qtz veins w/ rusty alt'n throughout
		42.33	42.46	Ep blebs/ bleaching in chlsch

DDH04-54
AZ N/A / Dip -90
414551E/6794733N
Elevation: 1697 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: Aug. 7, 2004
Date Finished: Aug.8, 2004

From (m)	To (m)	From (m)	To (m)	Description
		42.81	**43.14**	**rusty qtz vein w/ minor tourm**
				veins have undulating bourndaries; 85% qtz/15% tourm
		43.20	43.28	rusty qtz vein as above- no tourm
		43.58	43.74	carb veinlets in chlsch
		44.18	44.27	rusty qtz vein as before
		44.34	**44.43**	**rusty qtz/ tourm vein**
				contacts undulating; 75% qtz/ 25% tourm
		44.95	45.20	carb veinlets in chlsch
		45.28	45.35	bleached/ EP blebs in qtz
		45.55	46.32	wk to mod tourm alt'n in chlsch; 46.10-46.25m blebs of Po throughout
		46.66	50.88	zones of fine gr purple/grey aplite in chlsch; **50.0-50.30m qtz/tourm vein**; boundaries undulating; 70% qtz/ 30% tourm; 46.89-46.93m scheelite, also at 49.90-50.0m
		50.88	51.55	bleached/ EP blebs in chlsch
51.82		**E.O.H.**		**E.O.H.**

DDH04-55
Az N/A/ Dip -90
414645E/6794462N
Elevation: 1725 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started: August 4, 2004
Date Finished: August 5, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	4.00			OBV/Bedrock bx
4.00	**51.00**	**Chlorite Schist**		
		4.00	19.40	pale gn-md gn weakly foliated chlorite schist/mv, locally minor fsp xls to 3 mm (see 4.75 m), broken rock common from 5.1-8.25 m, from 4-4.8 m, several broken pieces of tourmaline layers on weak rusty cs accompanied by minor muscovite, phyllitic schist surface typical, fabric ~65-70 deg c/a, scheelite pale bn from 4-5 m to 15 mm, step fracture objects common, gyp/cb veins & silica at shallow angles to c/a commonly 30-45 deg c/a, ranging from <5-70 deg c/a, coarse late vein cb parallel c/a with minor qtz from 7.6-8.5 m, cb v 45-60 deg c/a @ 9.6 m, also @ 10.4 m, from 10.35-11.3 m, heavily broken core, fg tourmaline arrays <5-15mm length 9.85-10.05 in cs as above, parallel to weak fabric in massive fg section, weakly zoned vfg tourmaline, also exhibited from 13.25-13.90 m, ranging to 15 mm, considerable zoning, abundant broken rock 14.1-14.75 m, weak blch 14.95-15.25 m, still weak foliation, also 17.75-17.85 m folded, boudinages, no alt'n, local bx with abundant shiny chl +/- mu schist (see 18.8 m, also 17.75 m)
		4.75		folded qv, barren, <5-10 mm thick
		15.40		qv
		16.20	16.35	qv
		16.65		qv +/- epidote (y+gn)
		19.40	35.10	similar to above with patchy fsp? Indistinct banding similar to flaser txt, folded and boudined qv from <1-5 cm in thickness surrounded by chloritic selvage, typ sub parallel fabric ~60 deg c/a, local bx associated with veins, trace tourmaline with qz <5% 21.8-21.95 m <2-10 mm aggregates, no zoning or ve, or alt'n, cb veins subparallel fabric with minor splay veins typ <2-5 mm thickness, minor qf veins 24.6 m, qv 27.8 m, 3-5 cm barren, qv 28.1-28.3 boudinaged 1-5 cm thick, several hrfr qz to 31 m, c/a parallel cb to 10 deg c/a from 28.5-32.6m, step offsets, open space qz @ 31.75 m, qv boudins 34.55-35.1 m, tourm 40-50% fg e qv @34.5-34.6, possible white beryl at 21.85 m
		35.10	37.75	increasing proportion of qv in variably brecciated chlorite schist, increased foliation development 40-50 deg c/a ranging to 70-75 deg c/a undulatory, abundant qv, appear barren, range from <1-8 cm thick parallel fabric, grey-white to cloudy white >25-35% qv content in well fol cs
		37.75	38.55	similar to above, increased ribbon-like qv lenses/fabric ~65-70 deg c/a with disseminated, mainly random, dark blue-black tourmaline typically <1-4 mm, <1-2 mm thick, 2-5% in slightly blch cs
		38.55	39.30	as per 35.1-37.75, strongly fol cs with sub parallel qv, locally qv bx from 39-39.15 m

DDH04-55
Az N/A/ Dip -90
414645E/6794462N
Elevation: 1725 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started: August 4, 2004
Date Finished: August 5, 2004

From (m)	To (m)	From (m)	To (m)	Description
		39.30	39.50	chlorite schist with banded aggregates of tourmaline ranging from 5-20 cm thick, vfg aggregates, fractures increased by pyrrhotite & pyrite typ <1-3 mm, thick, irregular, principally within extensional fractures in tourmaline roughly orthogonal to fabric
		39.50	39.60	qt vein, qz>95%, sharp contacts with tourmalinized cs, minor ep-act assoc with tourm
		39.60	39.95	heavily tourmalinized cs, well foliated, f-->mg xls (needles) commonly in radiating arrays hosted by cs, probably weak blch of cs (55-60% tourmaline)
		39.95	40.20	cs as per above, extensive qz lenses, moderately to intensely foliated
		40.20	40.95	cs, as above, intense fol 30-50 % qz, typically broken
		40.95	42.00	cs, as per 35.1-37.75, more massive with less distinct veining, minor fe-rich staining, moderate fabric
		42.00	44.10	intensely tourmalinized, siliceous, fe stain with 'golden micaceous' schist, extensive multistage brecciation
		42.00	**42.25**	**tourm cs with qz, 40-50% T, 25 % qz, 25% cs, tourm aggregates cut by bn micaceous aggregates**
		42.25	42.70	heavily silicified, locally bx core, rusty with minor mica, tourm as previous, intensely foliated cs, highly micaceous sections, very friable with int/s tourmaline, minor qz, tourmaline vfg agg to needles of 15 mm clearly the latter housed by qz
		42.70	42.80	highly qz-rich with 40-45 % T
		42.80	43.20	intensely mica-altered cs with nodular aggregates of tourmaline ranging from 5-30 mm mainly within mica, ~35-45 % T, 40-45% mica, <20% chl tr qz
		43.20	44.10	intensely tourmalinized & bleached, silicified with abundant mica & whitish alteration mineral (clay mineral?), clots of tourmaline similar to 42.8-43.2 m, erratic quartz pods to 3-5 cm within mica-chlorite-tourmaline
44.10	47.60			moderately fol, moderately tourmalinized cs as per 37.75-38.55 m, bx with minor cb, core broken from 45.9-46.3 m & from 46.3-46.9 m, well fol chl schist locally, rare clots of tourmaline to 15 mm
		45.45		qz v <5% T, 3-5 cm thick, sharp contacts
		46.20		qv
47.60	47.95			as above, with abundant brown fe-stained micaceous alteration (proto alt'n rel to earlier sections)
47.95	49.75			heavily fol cs with patchy qv as per 35.1-37.75m
49.75	51.00			mod fol cs, massive to foliated as per 19.4-35.1 m
51.00		**E.O.H.**		**E.O.H.**

DDH04-56
Az N/A/ Dip -90
414700E/6794427N
Elevation: 1732 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started: August 5, 2004
Date Finished:August 6 , 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	2.00			ovb, bedrock bx
2.00	**51.00**	**Chlorite Schist**		
		2.00	6.40	cs, massive to locally foliated, locally fragmental txt, patchy wk blch, tr irr qv <5-20 mm discontinuous, bx & int fol from 2-3.7 & 4-4.3 m, 5.1-5.35 m, minor tourm agg with weak halo of rusty cs @4.3-5.0 m <1-2 cm thick arrays, v. wk alteration
		6.40	7.90	cs, similar previous indistinct fabric, trace tourmaline <1 cm in cs, alteration with rusty fe-staining in hrfr
		7.90	8.80	chloritized, green chlorite schist with extensive tourmaline 25-50% volume, aggregates of fg-vfg tourm, zoned, range to 5 cm in thickness with vermiform txt common (similar to irregular collomorphic) obscured core, trace ob hrfr
		8.80	9.50	weakly altered and brecciated, minor qv pods, fracutres filled with rusty hrfr, similar to 2-6.4 m
		9.50	11.00	lenses of tourmaline from 9.5-10.2 m & 10.75-11.0 m, similar to previous (7.9-8.8 m) in well foliated, parallel veinlets of qz along fabric, otherwise extensive ribbon like veinlets of qz with pbx txt & minor phlogopite replaces chlorite schist
		11.00	28.20	massive to weakly foliated, md green cs minor phlogopite, wk blch patches to 5 cm with qz filled fractures (more brittle), trace tourmaline layers @15.95-16 m as previous, typ <1cm thick, slightly felsvared chlorite fabric, no distinct alt'n or ve in any of these sections. From 11-15.8 m, grey-green with patchy blch & veining with locally bx txt, 15.8-17.4 m more massive, wk blch, more zoned alteration (chl-ser-ep) 17.4-18.2 m, similar with moderate fabric 75-80 deg c/a, also wk section, 18.2-20.1 m moderate to intense fabric varies from 70 deg c/a to 50 dg c/a @ 19.5 m, ribbon txt qz with ep ser chl schist, minor qv @ 19.6-19.7 boudinaged, no alt'n, 20.1-23.1 m, same as 11-15.8 m & 17.4-18.2 m, minor qz-cb fractures subparallel fabric, 23.1-25.4 m grey-dk green with indistinct bxt and mionr blch patches similar to above, indistinct fabric 70 deg c/a, 25.4-25.5 m minor tourmaline in altered cs <5-10 mm thick over 2 cm length, 25.5-26.4 cs as per 23.1-25.4 m, 26.4-26.6m, tourmaline in cs as per 25.4-25.5 m, 26.6-28.2 m, as per 23.1-25.4 m
		28.20	29.25	heavily altered cs similar to above, pale gn-gy-bl cs, sharp vein contact @ 28.3 m, ~60 deg c/a, f-->mg tourm mainly fr control aggregates, no ve, no scheelite, 28.45-29.25 m tourmalinized cs with olivy green blue colouration, typ zoned T vfg aggregates, collo type, qtz ext fr max, est 25-30% T, no ve, no sch, decreases down to 5% below 28.95 m.
		28.45		**qz t 85-90% qtz, 10-15% T, white q**

DDH04-56
Az N/A/ Dip -90
414700E/6794427N
Elevation: 1732 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started: August 5, 2004
Date Finished:August 6 , 2004

From (m)	To (m)	From (m)	To (m)	Description
		29.25	33.90	cs as per 26.6-28.2 m, minor blch patches with qtz stringers, txt of rock usually more massive, fg, locally bx txt similar to several sections above. Minute blebs of qtz disseminated in cs, fabric 50-60 deg c/a. Minor blch sections to > 30 cm, below 31 m-32.5 m, patchy barren qv pods <1-2 cm thick from 32.1-33.6 m, indistinct fabric
		33.90	**34.05**	**qt vein, no peripheral alteration, friable zone of cs, 70-75 % tourm F-->mg qtz fr filling, no ve, no scheelite**
		34.05	51.00	cs, grading to pcs, textures with speckled feldspars from fg-->mg, similar to pillowed txt minor extension fractures, locally grading to phl-chl flecked cs, fabric 70-75 deg c/a, minor blch patches, mainly foliated cs with siliceous lenses boudinaged along fabric, foliation variable wk to moderate, grades mainly flecked cs from 49-51 m, similar 46.6-47.7 m, fine granular qv on fabric from 50-51 m, <5-20 cm thick
51.00		**E.O.H.**		**E.O.H.**

DDH04-57
Az N/A/ Dip -90
414876E/6794382N
Elevation: 1752 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started: August 13, 2004
Date Finished: August 14, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	3.15			ovb, bedrock bx, golden schist, cs (blch)
3.15	**49.99**	**Chlorite Schist**		
		3.15	4.30	bedrock bx, broken weakly ser-ep blch, cs, minor qv <1cm
		4.30	4.70	gy-gn cs, weak alt'n, moderate bx indistinct fabric
		4.70	5.00	cs bx, probable fault, rock as previous
		5.00	5.40	cs, grey ep & silicified, mod bx, ~80 deg c/a
		5.40	5.70	bx rock, golden schist, muscovitized cs, strong fabric
		5.70	6.00	cs, grey, less altered similar to 5.0-5.4 m
		6.00	6.45	cs, heavily tourmalinized, zoned mainly pale bluish-mauve colour, aggregates of <1-5 cm irregular lobate distribution, minor silicification, fabric est 70 deg c/a but compositional layers 40-80 deg c/a
		6.45	7.15	bleached cs, grey-gn, paler, minor sil, distinct fabric 70-75 deg c/a, moderate fol
		7.15	7.65	rock bx, heavily sheared & broken weakly muscovitized cs, tourmalinized, aggregates of needles to >1 cm, content <10% est
		7.65	8.00	same as 6.45-7.15, minor T in thin lenses <5 mm, brown rusty fracutres, gradational contacts
		8.00	8.45	similar, moderately altered cs with silicification & minor T, heavily sheared
		8.10	8.20	friable chlorite schist & dk brownish staining. Elevated alt'n coincides with thin **tqv @8.7-9.25 m**
		8.45	8.70	heavily altered cs, patchy lenses of T in rusty sheared with aggregates of evaedrac <1-2 mm T in lenses to 5-20 mm thickness
		8.70	**9.25**	**tq vein, extensive T F--> CG 75-80% T, <20% q and minor rusty brown schist grades to qz rich from 8.85-9 m & ~90% T from 9-9.25 m with <5% qz int/s, fine hrfr brown mineral identified as fe-stained calcite (also identified from 7.6-8.7 m, weakly fluorescent white near opaque mineral (soft) int/s with tourmaline from 9.15-9.25 m)**
		9.25	9.75	heavily altered cs, distinct fabric defined by silica lenses and extensive brown cb veinlets, distinct effervescence, minor late white cs oblique to fabric, minor patches of cs with T @9.4m, @9.65-9.7m enclosed by and overprinted by fe-cb
		9.75	**10.00**	**tqv, tourmaline-rich on margins, vfg-fg T 10-15 cm thick, white Q int/s with slightly softer yellowish stubby prismatic mineral ranging from <1-15 mm and in aggregates to 3 cm thick with minor T & Q, also heavily alt'd cs with rusty mica in two lenses parallel to fabric est 75-80 deg c/a**

DDH04-57
Az N/A/ Dip -90
414876E/6794382N
Elevation: 1752 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started: August 13, 2004
Date Finished: August 14, 2004

From (m)	To (m)	From (m)	To (m)	Description
		10.00	10.25	sos 9.25-9.75 heavily altered with cb
		10.25	11.25	heaviliy tourmalinized cs with incriment to moderate cb, lenses of T range from <5-40 mm in thickness, no sch, no ve, minor qv from <1-3 cm thick parallel fabric, ~80 deg c/a, section est 10% T, boudined qv and locally well developed fabric, extension fr q <1-2mm
		11.25	**11.35**	**tourmaline-rich vein, peripheral rusty schist & moderate carbonatization, <10-15%q minor mu, F-->mg T with granular aggregates & minor xls in radiating aggregates generally aligned with fabric, no ve, no scheelite**
		11.35	11.75	heavily altered cs as per 10.25-11.25 m, patchy T in lenses to 2 cm thick, zoned, vfg-fg
		11.75	**11.90**	**tq vein 75% T, as above, enclosed by carbonatized, muscovitized cs, includes 1-2% sch wh-bn ranging from <1-5 mm typ <2mm along periphery of qv within massive tourmaline, no ve**
		11.90	12.60	as per 11.35-11.75m, intensely altered cs with T lenses, mionr qv irr & folded apparently barren, fabric ~80-90 deg c/a, no scheelite or ve
		12.60	12.70	qt vein, textures as above, with lubate lenses of T and 1-2 cm v of quartz, no ve or scheelite
		12.70	12.95	heavily altered cs as per 11.9-12.6 m, locally brecciated, abundant broken core, minor rusty staining
		12.95	15.10	altered cs with patchy T, minor gyp/cb fractures, streaky pcs type txt locally, v. weak mu-cb alteration, increasing below 14.5 m, ext fiz with bn cb, tourmaline patchy zoned lenses as above, aggregates range from <1-4 cm thick, typ vfg-fg, minor white ext veins typ <1-2 mm thick, tourmaline aggregate 8 cm thick @ 14.8 m, radiating T to 15 mm in altered green cs, strongly alt'd & numerous qt lenses from 14.85-15.1 m
		14.50	14.60	qv
		15.10	15.25	qt vein, ~50% T, ~50% qtz (may include fsp +/- aplitic (?) composition), mionr <0.5% sulphides (?), in fractures in T, irregular qz-t contact relationship, no ve, no scheelite
		15.25	16.10	rusty, heavily altered cs similar to previous, pods of qt up to 5 cm thick also T pods upt o 2 cm thick
		16.10	16.25	qt vein as above, in sch <2-4 mm
		16.25	19.60	cs/pcs with wk to mod phlog flecks & fous-parallel qz lenses, thin T lenses to 5 mm as above. Minor mu alt'n, tourm lenses (17.5-17.55m) fg-mg with int/s q, wk to mod alt'd cs/pcs continues to 19.6 m, ranges to bl-gy-gn with chl-bwt flecks @ 18.4-18.65 m with mionr fe-cb veining, fabric 70-80 deg c/a, locally intense chlorite foliation

DDH04-57
Az N/A/ Dip -90
414876E/6794382N
Elevation: 1752 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started: August 13, 2004
Date Finished: August 14, 2004

From (m)	To (m)	From (m)	To (m)	Description
		19.60	20.10	qz veinlet, massive fg, zoned A-->Q, minor mu, thin <1-2 cm altered selvages, T absent, weakly fr with incipient alteration
		20.10	20.40	heavily altered cs as per 12.95-15.1 m
		20.40	20.65	massive TV, mionr Q (<10%), vfg-fg aggregate with int/s clots of qz brecciated by late bn cb veinlets (irr <1-10 mm thick), heavily speckled by <1-2 mm bn cb, tr diss sch typ <2mm, qz fracture appears to postdate most of tourmaline, all cut by cb fr
		20.65	22.10	heavily altered cs as per sections above. Abundant lenses of tourmaline from 20.8-21.1 m & 21.6-22.1 with typ zoned txt & minor qv
		22.10	22.40	highly tourmalinized ~40%T in altered cs, similar to sections above, minor muscovite alteration
		22.40	22.60	highly bx core, chl schist as per 20.65-22.1, abundant musc alteration
		22.60	27.80	highly tourmalinized cs, similar to above, patches of T ranging from <1-3 cm thick, ranges from gn cs to cb-cs with minor musc, also gn flecked, less altered sections (e.g. 23.6-23.85 m), weak to mod alt'n to 24.75 m, 24.75-24.99 m, tourmaline 50% bands in highly altered cs, 24.99-27.8 moderately to highly tourm sectinos from 2-5 cm thick with layers of T, also minor QV, f-->mg tourmaline with mionr q, only weak alt'n in lower 30 cm
		27.80	29.60	brecciated fault zone, primarily ewakly altered chlorite schist, gouge & rock fragments typically fg schist
		29.60	49.99	chlorite schist, weakly altered, cs-->local pcs, minor qv, late cb fr frabric 75-80 deg c/a, broken core from 30.4-31.0 m, & 33.8-34.4 &34.6-35.5 m, including fault gouge from 35.0-35.4 m, weakly altered cs from 35.4-37.7 m, typically broken core from 35.5-37.4 m, highly foliated from 37.4-37.75 m, less altered cs with minor pcs from 37.75-39.8 m, crenulated cs @ 39.85 m, cs as above from 39.85-44.8m, with spaced irregular qv lenses on fabric, typ <1-2 cm thick, q ext fr, gyp/cb parallel c/a, typ <3 mm, 44.8-45.0 m highly sheared cs, 45-45.15 m barren qv, 45.15-46 cs as above, 46-46.2 m highly sheared cs, 46.2-46.85 highly broken core as above, 46.85-49.7 m, cs weak alt'n as above, 49.7-49.85 m, highly sheared, 49.85-49.99 m as previous. Minor T with q in bx zone from 46.6-46.75 m, minor alteration
49.99		**E.O.H.**		**E.O.H.**

DDH04-58
Az NA/ Dip -90
414914E/6794365N
Elevation: 1756 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started: August 13, 2004
Date Finished:August 13 , 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	3.05			ovb
3.05	**50.90**	**Chlorite Schist**		
		3.05	5.00	moderately altered cs, gy-gn massive to mod fol, heavily broken core, patchy tourmaline in vfg cs 3.2-3.8 m T 4.4-4.6 m & 4.75-4.9 m typ 1-3 cm thick layers, zoned, fg-vfg, in rusty chl schist
		5.00	5.20	heavily altered cs with abundant aggregates, zoned, with vfg-mg T ranging from 5-30 mm thick, weak foliation & patchy moderate carbonate
		5.20	5.40	TQ vein, typ fg aggregates with int/g qz 65% t, 35% Q, t along selvages, sharp boundaries, tourmaline xls range from <1-15 mm in length
		5.40	5.70	heavily altered cs with 40% zoned, vfg-fg touramline ~80 deg c/a orientation typically parallel schistosity
		5.70	6.20	broken core, mainly weakly altered cs, trace tourmaline, as above
		6.20	8.90	weakly altered cs, weak to mod fol, 70-80 deg c/a, 2-4% tourmaline in thin layers <1-2 cm
		8.90	9.50	silicified cs, well fol, similar to pbx, moderate rusty alteration
		9.50	10.80	heavily broken core, moderate to locally high alteration (mu, cb, tourmaline) banded txt as above, <2-4% T
		10.80	14.40	siliceous cs, mod fol, wk alt'n, pbx txt, ~75 deg c/a, tr tourm layer @14.0 m, highly broken core 14.3-14.4 m, mn staining on fractures, fault at 14.3 m
		14.40	15.00	fqv, minor cb, minor enclosed carbonatized cs, minor <3% %T focused on selvages, f-->mg
		15.00	17.80	weakly altered cs, wkly for ~85 deg c/a, minor cb veins, hrfr <2 mm typ, qv @15.75 m 3 cm barren, also 16.4 m, also 17.5 m, broken core from 15.0-15.75 m &16.6-17.7 m
		17.80	18.10	qv with thin selvage of tourmaline <1cm thick vfg, may include q+f, or silicified "aplite"? Minor peripheral alteration
		18.10	23.20	simliar to blch & foliated cs above yel-gn chl+/- mica 75-90 deg fabric c/a, grades into grey, more massive txt from 20.8 m (indistinct fabric vfg chlorite minor pods of bleached yel-gr (similar ep-ser)) with bx veinlets of silica, formed small boudins with grey cs margins grading to waxy gn cs. Locally cb bx veins from 20-20.5 m, highly sheared from 22.2-22.6 & 22.7-22.8 m, along fabric, rock ground to flaky debris, 22.8-23.2 m, siliceous cs gy-gn, minor q & cb hrfr
		23.20	24.10	green cs/pcs with irregular compositional variations. Moderate to strong fabric. QT lenses @ 23.6m, f-->mg 15 mm thick parallel fabric ~80 deg c/a, highly sheared 23.6-23.8 m, broken core from 23.8-24.1 m, moderately foliated cs with incipient alteration.

DDH04-58
Az NA/ Dip -90
414914E/6794365N
Elevation: 1756 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started: August 13, 2004
Date Finished:August 13 , 2004

From (m)	To (m)	From (m)	To (m)	Description
		24.10	25.90	grey coloured, moderately to high foliation, cs with incipient to moderate carbonatization increasing with depth, abundance of tourm increasing also, trace to 25 m, thin lenses of <1cm @ 25 m, 25.1 m, 1.5cm @ 25.2 m, folded tq to 4 cm thick @ 25.4 m, 15 cm thick @ 25.6-25.75 m, f-->mg tourmaline in radiating aggs to speckled txt, the thickest in heavily altered rusty schist continuing to TV @ 25.8-25.85 m, following 75-80 deg fabric, thick pod exhibited minor drag folding on fabric
		25.90	27.20	QT vein with minor inclusions of intensely altered cs, 25.9-26.0 m, massive q grading to q with euhedral needles of T ranging from <5-30 mm in length, 26.0-26.15 QT 50/50 with T needles & massive T in Q, carbonatized, tr sch <2mm, 26.15-26.30 massive T with cb tr sch, 26.3-26.35 QT coarse needles T with pervasive replacement of cs (<10%), minor <5% int/s qz, cb, tr sch ranging from <2 mm to rare white xls subhedral to 10 mm, 26.65-26.75 m, bleached, weak rusty, cs sharp contacts, 26.75-27.05 massive T with int/s cb, q, tr sch as previous, rusty alt'd cs 27.05-27.1, 27.1-27.2 massive t with 25% white-yellow xl aggregates (?) and tr fine diss scheelite. T typ, fg-mg needles & granular aggregates white-yellow xls range from 5-20 mm in diametre, blocky similar to beryl. Minor int/s qz and cb hrfr <2mm typ, minor ext fr qz in t perp to fabric ~75-80 deg c/a
		27.20	**28.20**	**heavily altered cs with patchy lenses of T, mionr qt veinlets to 3 cm, irregular orientation, minor rusty alt'n throughout, no sch or ve, <4% T in lenses to 5-10 mm thick, zoned, wk cabonatization**
		28.20	28.50	QTV 75%T, 20% Q, 5%CC irregular int/g of f-->mg T with irfill Q & late cb, tr scheelite (couple of <1mm grains), no ve
		28.50	28.85	weakly altered cs, pcs, massive with indistinct T alteration lenses as above, mainly broken core
		28.50	51.60	mainly weakly altered cs and lesser pcs, minor qv oblique to fabric variable locally from 65-80 deg c/a, locally >80 deg - perp c/a
		28.85	29.60	weakly blch
		29.60	31.00	fg cs, minor qz blebs, well foliated
		31.00	32.00	cc veinlets subparallel c/a
		32.00	32.90	minor irr lenses of wh q well folded, fabric variable 65-80 deg c/a
		32.90	34.90	fg cs well fol 60-90 deg c/a, locally crenulated, with thin stringers of qz parallel fabric typ 5-10 mm thick, int fabric/shearing 34.4-34.6 m

From (m)	To (m)	From (m)	To (m)	Description
		34.90	51.60	pcs with patchy qvl & cb bx the latter from 35.6-35.9 m, minor fg cs from 36-36.3 m, coarse pcs to 37.2 m, f pcs 37.2-38.3 m, highly sheared 38.3-38.5 m, c pcs with numerous qv & pods from 38.5-39.0 m, highly broken core from 39-40.6 m, cs/pcs from 40.6-41.15 m, highly sheared 41.15-41.6 m, pcs 41.6-51.6 foliation typ wk to moderate, locally bleached pods of 1-4cm thick, minor qv to 8 cm typ <1-2cm, fabric varies from 65-85 deg c/a
50.90		**E.O.H.**		**E.O.H.**

DDH04-59
AZ N/A / Dip -90
414563E/6794804N
Elevation: 1688 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: Aug. 12, 2004
Date Finished: Aug.12, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	1.22			Casing
1.22	**50.90**	**Chlorite Schist**		grey green chlsch; wk to strong deformation; qtz and qtz/tourm vein and tourm alt'n throughout; as in previous holes
		5.15	5.79	tourm alt'n in chlsch; wk alt'n; start of rusty coating (Jarosite?) along fracture planes (5.15-6.53); possible tremolite/actinolite from 5.15 - 5.39m
		5.79	**5.92**	**qtz/tourm vein**
				less 1% scheelite; contacts undulating but general trend is 35-45 deg tca; 60% tourm/ 40% qtz
		5.92	6.05	tourm alt'n in chlsch; mod to strong alt'n
		9.67	12.35	mod tourm alt'n in chlsch
		12.35	**12.52**	**qtz/tourm vein**
				rusty schist at upper contact; fracture surfaces rusty; 60% qtz/ 40% tourm ~ 1% scheelite
		12.52	12.80	mod tourm alt'n in chlsch
		12.80	**13.09**	**qtz/tourm vein**
				same as above; lower contact has rusty schist
		13.09	13.31	rusty tourm alt'n in rusty chlsch
		13.31	**13.42**	**qtz/tourm vein**
				less 1% scheelite; fracture coatings rusty; 60% qtz/ 40% tourm
		13.42	18.36	mod to strong tourm alt'n in chlsch; 14.80-15.70m tourm has a crystal form rather than paint/felted form; fracture surfaces have wk rusty coating
		18.36	**18.54**	**qtz/tourm vein**
				contacts undulating; tourm mainly along boundaries; 75% qtz/ 25% tourm
		18.54	19.01	strong tourm alt'n in chlsch; 18.54-18.63m tourm is in crystal form
		19.01	**19.09**	**qtz/tourm vein**
				contacts undulating; tourm mainly along boundaries; 80% qtz/ 20% tourm; rusty fracture coatings
		19.09	22.73	tourm alt'n in chlsch; 19.09-20.67m tourm alt'n strong; 20.67-22.73m torum alt'n wk to mod; 19.09-20.46m rusty fracute surfaces
		22.73	23.47	incr mica (phlog/biotite); 23.89m fol 85 deg tca
		26.26	26.37	qtz vein in chlsch; contacts undulating
		26.43	**26.44**	**qtz/tourm veinlet**
				50% qtz/ 50% tourm

DDH04-59
AZ N/A / Dip -90
414563E/6794804N
Elevation: 1688 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: Aug. 12, 2004
Date Finished: Aug.12, 2004

From (m)	To (m)	From (m)	To (m)	Description
		26.52	47.60	chlsch as before but with incr veining; veins have random orientation and size (mm-10 cm); minor amounts of cc/carb (usually rusty) throughout; some veins are talc/gypsum/qtz; from 33.46-38.71m veinlets are highly folded- almost ptigmatic folding in places; 34.75-37.0m incr mica (phlog/biotite); 40.12 to 46.52m incr in mica (phlog/biotite); from 42.98-46.16m sig incr in micas
		47.60	**47.69**	**tourm/qtz vein**
				contacts indistinguishable because of broken rocks; 80% tourm/ 20% qtz; secondary (qtz?) veining
		47.69	50.90	chlsch that has strong veining as in previous section (26.52-47.60m)
50.90		**E.O.H.**		**E.O.H.**

DDH04-60
AZ N/A / Dip -90
414543E/6794879N
Elevation: 1681 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: Aug. 11, 2004
Date Finished: Aug.12, 2004

From (m)	To (m)	From (m)	To (m)	Description	Sample Number	Depth From (m)	Depth To (m)
0.00	1.52			Casing			
1.52	**50.90**	**Chlorite Schist**		grey green chlsch w/ wk to mod fol/strain; qtz/qtz/tourm veins w/ tourm alt'n in chlsch			
			4.73	fol is 70 deg tca			
		8.43	12.75	incr mica in chlsch (phlog/biotite); fol varies from 60 deg tca to almost 90 deg tca			
		12.80	12.89	SSF in chlsch			
			13.00	fol 60 deg tca			
		14.67	15.53	tourm alt'n in chlsch; SSF @ 14.67; wk tourm alt'n from 14.67-15.48; 15.48-15.53 strong tourm alt'n in chlsch			
		15.53	15.73	qtz veining in strong tourm alt'n in chlsch; vein contacts undulating			
		15.73	18.86	wk tourm alt'n in chlsch			
		21.09	21.82	incr mica in chlsch			
		25.54	25.94	incr mica in chlsch			
		28.73	29.10	incr mica in chlsch			
		32.04	**32.26**	**qtz/tourm vein**	390660	32.04	32.20
				vein boundaries undulating; 65% tourm/ 35% qtz; lots tourm @ selvedges of qtz			
		32.26	33.52	wk tourm alt'n in chlsch			
		33.52	33.82	strong tourm alt'n in chlsch			
		35.20	**35.34**	**tourm vein in chlsch**			
				appears to be folded (possible basin and dome)			
		35.57	35.85	strong tourm alt'n in chlsch			
		38.49	39.31	wk tourm alt'n in chlsch			
		39.31	41.12	incr mica throughout section (phlog/ biotite); 40.81 fol 50 deg tca			
		41.12	**41.38**	**qtz/tourm vein**	390661	41.12	41.38
				vein contacts undulating; 50% qtz/50% tourm			
		42.65	43.11	strong tourm alt'n in chlsch			
		43.57	43.60	strong tourm alt'n in chlsch			
		43.90	44.16	folded undulating qtz veins			
		44.77	46.34	mod tourm alt'n in chlsch; incr mica in chlsch 44.77-46.45m			
		49.48	49.61	incr mica in chlsch			
		50.34	50.79	incr mica in chlsch			

DDH04-60
AZ N/A / Dip -90
414543E/6794879N
Elevation: 1681 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: Aug. 11, 2004
Date Finished: Aug.12, 2004

From (m)	To (m)	From (m)	To (m)	Description	Sample Number	Depth From (m)	Depth To (m)
50.90		E.O.H.		E.O.H.			

DDH04-61
AZ N/A / Dip -90
414508E/6795012N
Elevation: 1666 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: Aug. 9, 2004
Date Finished: Aug.10, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	1.52			Casing
1.52	**50.90**	**Chlorite Schist**		grey green chlsch; wk fol; faults throughout section; qtz and qtz/tourm veins w/tourm alt'n
		17.61	17.83	qtz vein w/ Ep; vein boundaries undulating
		18.58	**18.66**	**qtz/tourm vein**
				upper contact irregular; lower contact ~ 80 deg tca; 95% qtz/ 5% tourm; no tourm alt'n before and after vein
		19.75	24.69	flt zone; clay gouge and broken rocks; sections of whole/ consolidated core up to 60 cm long; fracture surfaces coated in clay gouge; 23.59 - 24.48m highly broken core and clay gouge (95% gouge)
		25.67	**25.78**	**qtz/tourm vein**
				boundaries undulating; 95% qtz/5% tourm
		26.50	26.82	minor flt w/ clay gouge and broken core; core loss
		26.82	28.59	wk tourm alt'n in chlsch
		28.59	29.34	strong tourm alt'n in chlsch; 29.26-29.32m small vein w/ minor tourm
		29.34	**29.49**	**qtz/tourm vein**
				upper contact undulating; lower contact ~45 deg tca; 60%qtz/ 40% tourm
		29.49	30.04	strong tourm alt'n in chlsch
		30.04	30.35	wk tourm alt'n in chlsch
		31.48	31.95	rusty chlsch w/ fault clay gouge
		34.60	37.07	flt; broken core w/ intervals of clay gouge and highly broken core
		37.07	37.31	incr mica in chlsch
		37.31	37.97	rusty and bleached chlsch w/ small vugs (possible w/ carb/cc @ one time), qtz veinlets ~75-80 deg tca mm-2cm in size
		38.49	39.28	rusty and bleached chlsch as above
		45.10	46.07	flt w/ broken core and clay gouge; possible qtz/tourm vein @ 45.42-45.48m (75%qtz/ 25% tourm)
		48.82	**48.90**	**rusty qtz/tourm vein**
				vein boundaries undulating but~ 75 deg tca; 60% qtz/ 40% tourm
50.90		**E.O.H.**		**E.O.H.**

DDH04-62
Az 330/ Dip -60
414733E/6794526N
Elevation: 1768 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started:August 17, 2004
Date Finished: August 19, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	1.52			OVB, Bedrock bx
1.52	**75.30**	**Chlorite Schist**		
		1.52	2.75	highly broken core, gr-gn cs wk fabric, locally white speckled pcs, minor rusty staining
		2.75	5.40	pcs with patchy intense shearing, @ 3.95-4.0 m, @4.5-4.7 m, trace qv pods, late cb veining 4.8-5.0 m oblique with mionr brecciation, fabric 70-75 deg c/a, traces of rusty staining w/ qtz
		5.40	8.40	fine-grained cs with flecks of chl-biot-minor rusty alteration, very scatted lenses of tourmaline, typ fg xls & aggs increasing size and freq with depth, @ 6.2 m, @ 7.0 m, @ 7.4 m, @ 7.8 m, typ <1cm thick, fol 55-60 deg c/a
		8.40	15.25	fg cs/pcs, wk alteration, blch weak, minor qv parallel fabric, minor cb v perp fabric, typ < 2mm thick, locally to 10 mm thick, colour typ gy-gn to dk gn, mod fol, highly sheared @ 11.6 m, thin qtv @11.95 m parallel fabric, alt'n nil, no ve, ~10% T, <1-5 mm, qz int/g with ep-ser(?), fabric 45-50 deg c/a, @12.15-12.25 tourmaline aggregates incs, zoned, f-->mg, <5% qtz, probably two gens of T in vein and within lenses, @ 12.4 m thin lens of fine grained T lens, <1cm high, qv pod boudin 2-8 cm @ 12.6 m, @13.2-13.4 m lenses of zoned T <102 cm thick, minor qv assoc irregular, only very limited alt'n, qv from 13.5-13.75 parallel c/a cut by tourmaline lense as above, no peripheral alteration, @ 13.85 T lense f-->cg xls and aggregates <5-15 mm, peripheral bright green chlorite, highly foliated with chl-phlogopite from 14.6-18.4 m, @ 14.8-15.25 m typ 1-2 cm zoned T in heavily altered fg cs, thin qv fragments, T typically vfg aggregates & F-->cg xls in arrays on fabric 70-85 deg c/a variable
		15.25	21.70	fg cs, minor T banding as above @ 15.4 m, clots of T disseminated @15.6 m typically 1-2 cm, chlorite-rich banded T @ 15.8-15.9 m, bt gn, @16.05-16.2 m T in cs with alt'n halos as above, @ 17.3 ditto, @ 17.5 m 2 cm thick tv lense 90% T, <5% q int/s, @ 17.6 4 cm aggregate of bands, calcite veins, sub perp to c/a, @17.75-17.85 m, 18.1-18.3 cc vein bx, qv zoned @ 18.4 m 2 cm thick, no alt'n, touramline lense @18.5m 1 cm mg, @18.7 m diss agg f-->mg, qv 18.85-19.15 m, tourm 1-3 cm mg @ 19.75 m, and @ 20.2-20.4 zoned qv ,1-2 cm with tourmaline selvages to 6 mm, @ 20.65 fg zoned T 2 cm with 1 cm thick green rusty selvage, blch with ccv 20.7-21.1 m

DDH04-62
Az 330/ Dip -60
414733E/6794526N
Elevation: 1768 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started:August 17, 2004
Date Finished: August 19, 2004

From (m)	To (m)	From (m)	To (m)	Description
		21.70	26.50	mainly fg cs with md-pale gn colouration & incipient to minor alt'n associated with spaced lenses of fg, zoned tourmaline ranging from 5-30 cm apart over entire interval. T typ vfg-fg well zoned laminate to irregular clots ranging from <1-3 cm & clots to 5 cm, peripheral zoning, qv @ 22.9-23.2m sub parallel c/a, irregular, fe-stained, minor hrfr cc irr, only minor rusty staining, from 25 m incresaing rusty & locally intense shearing, locally abundant muscovitization & phlogopite from 25-26.5 m, with abundant tourmaline, typ f-->mg in phl-fg cs
		26.50	32.00	fg green cs/pcs, speckled with irr qv, tourmaline lenses similar to above section 1-5 cm thick colloform, well zoned, spaced commonly over 25-40 cm intervals, locally concentrated 3-10 cm intervals from 29-32 m. QT vein sections 50-60 % T increased Q TO 32 m
		32.00	32.20	QT vein, irr, 40% f-->mg T irr dist'n, rusty staining in qz
		32.20	32.50	as per 26.5-32 m
		32.50	32.75	qtv, 20-25% T, similar previous
		32.75	34.30	cs/pcs, wk alt'n, well sheared to 34.3 m, strongly sheared & mu-rusty stained to 34.34 m, broken core
		34.30	34.60	heavily altered fg cs with 40% T in well banded T, zoned, green fg cs with incipient rusty staining, minor x-cutting cb v <4mm
		34.60	37.80	cs/pcs, patchy tourmaline lenses similar to 21-32 m, highly sheared 35.4-35.7 m, fabric ~55-70 deg c/a, cb/q bx zone from 36.1-36.55 m, fine hr cc oblique fabric, ext fractures in T, filled by q/cb, most T vfg, well zoned; foliation well developed, abundant alt'n from 36.8-37.8 m
		37.80	39.60	cs/pcs, wk altered
		39.60	40.05	heavily tourmalinized cs, with fg-cg, coarse clots of T to 4 cm
		40.05	40.50	cs, minor alt'n with diss tourmaline clots, up to 4 cm in mod fol cs
		40.50	41.00	cs/pcs, wk altered
		41.00	41.30	massive tourmaline within generally weakly altered cs/pcs. Typ fg, very friable, no ve, tr vfg sch
		41.30	46.05	cs/pcs, weakly altered, mod to highly foliated, patchy cb bx typ <2 mm fabric 50-60 deg c/a, locally to 40 deg c/a, sheared @42-42.15 m, 45.1-45.3 m, 45.5-45.9m, Tourm vein 45.8-45.9 m
		46.05	46.35	massive tourmaline, tr vfg sch
		46.35	46.65	touramlinzed cs, ~25% T, as above
		46.65	46.75	QTV 10% T, irr
		46.75	47.10	heavily tourmalininzed cs similar to above, f-->vcg tourmaline, patches to 10 cm, radiated aggregates, tr vfg sch, mod rusty staining

DDH04-62
Az 330/ Dip -60
414733E/6794526N
Elevation: 1768 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started:August 17, 2004
Date Finished: August 19, 2004

From (m)	To (m)	From (m)	To (m)	Description
		47.10	47.35	intensely altered, rusty, massive aggregates of tourmaline up to 5 cm, very friable, sheared cs
		47.35	48.70	moderately tourmalinized cs, grey-green, zoned, fg-->mg lenses locally folded, typically 5-10 mm thick layers
		48.70	48.85	zoned TQV, 50% T/50% Q, Q core 6-8 cm, T walls 2-5 cm thick, vfg-mg xls and aggregates, locally radiating, tr sch <2mm
		48.85	50.00	heavily tourmalinized cs with minor qv, commonly rusty, zoned T fg-vfg typ, minor muscovitization, mod to strong foliation, tr hrfr cc
		50.00	56.20	weakly alt'd cs/pcs minor lenses of phlogopite to 50.5 m, interbanded vfg cs and pcs, mod fol to weak fol, patchy dist'n of Q pods, folded, boudined, pale to dark green, fabric @ 60-65 deg c/a, locally varying to 25 deg c/a
		56.20	56.35	heavily tourmalinized, with bx & folded layers of vfg-fg zoned T, well defined, incipient crenulation cleavage, fabric variable 50 deg c/a var +/- 10 deg
		56.35	61.50	cs/pcs, banded as above. Pods of qz folded, ranging from <2-25 cm thick, highly sheared from 59.75 60.0 m, weak to mod fol & shearing from 60.0-60.6 m, clots of tourmaline @60.6 ~2 cm thick in pcs, minor rusty section from 60.3-60.4 m
		61.50	61.85	tourmalinized cs as above
		61.85	61.90	qv with dendritic aggregates of tourmaline (5-10%)
		61.90	62.20	heavily tourmalinized and rusty cs as above, well fol with moderate muscovite
		62.20	64.30	cs/pcs, typically weak alt'n, qv @ 63.4-63.6 m, heavily sheared & broken from 63.3-64.3 m, gradational into tourmalinized cs below 64.1 m. Estimated contact in broken core
		64.30	67.85	tourmalinized cs, locally pcs & also silicified cs with abundant parallel lenses of quartz, weakly to intensely altered with rusty staining, locally bx, mod to intense shearing, mn staining, locally abundant phlogopite & musc, scheelite in angled fractures <1-4 mm @65.1-65.25 m, white sub-an in quartz vein
		64.30	64.75	tcs 40-50% f-->c T, olive to blch, ~70 deg c/a fabric
		64.25	65.00	tcs 10% f-->m T, patchy clots of f-->m phlog to 2 cm thick with T more massive
		65.00	65.15	tcs, intense alt'n, local coarse phl-mu, foliated mu-phl ~70 deg c/a, f-->cg T eu-gran 30%
		65.15	65.25	qv <5% <1% diss sch in late fractures sub parallel fabric, late hrfr cb
		65.25	67.00	t cs, granular to fg to cg T, grades to pcs, silicified pcs/cs, 10-40 % T in sections of 5-10 cm locally gn wh in siliceous pods & olive to dk gn in fg cs, only tr sch <1 mm, no ve, minor patchy phl

DDH04-62
Az 330/ Dip -60
414733E/6794526N
Elevation: 1768 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started:August 17, 2004
Date Finished: August 19, 2004

From (m)	To (m)	From (m)	To (m)	Description
		67.00	67.20	higly sheared, mn staining, broken, chl-biot +/- phl, minor T
		67.20	67.60	30-40 % T cut by late qz-mu-cb, minor to mod shearing/fol, fine granular T common, most T weak compositional zoning observed
		67.60	67.75	siliceous cs/pcs, 70 deg c/a, minor T <1-2% fg, well fol
		67.75	67.85	50-55 % T speckled txt aggregates in bleached cs
		67.85	68.20	strongly altered bx cs with 5% T, rusty, highly sheared, dk gn colouration, mn staining increasing, late Q=cb +/- gyp veins to 3 mm irr
		68.20	68.75	weakly altered pcs, as previous
		68.75	69.00	moderately altered cs, gr-gn, minor T aggregates, <5%, phl +/- chl flecks & lenses fg typ, late hrfr cb, mod fe-mn staining
		69.00	69.20	cs with 20% leneses of fg-gran T typ 5-10 mm thick, gr-gn colouration of cs, fabric 50-60 deg c/a
		69.20	70.25	wk to mod alt pcs, cs, massive txt with minor 1-3 cm qv lenses, locally pbx, commonly hosted by 10-30 % f-->mg phlogopite, minor qtv @ 69.85 & 70.0 m, 5-15 mm thick, well zoned q core, t walls, no distinct selvage alt'n
		70.25	70.40	2 qv or pods 5-10 cm thick with peripheral aggregates of tourmaline 2-5 mm in diameter, to 2-4 cm thickness with phlogopite host, in wk altered pcs
		70.40	73.20	similar to 69.2-70.25 m, gr-gn massive cs with local pbx txt in phlogopite matrix, also trace touramline locally in clots to 3 cm, tourmaline clots @ 70.6, 71.0, 71.1, 71.2, 71.25, 71.4 m (chloritic), 71.55-71.60, 71.75 (chloritic, 71.85, 72 (highly sheared broken core), 72.2-72.35 (fg lenses), 72.75-72.8 (abundant phlogopite), and 73.1-73.15 m (chloritic selvage), typ granular locally zoned, cut by lt cb fr typ <1-3 mm thick
		73.20	73.75	fg weakly altered speckled to foliated fg cs
		73.75	73.85	as previous, heavily sheared & broken core
		73.85	75.30	phl-bearing, gr-gn as pre 70.4-73.2 m, speckled cs, fabric 45-55 deg c/a, localy clots of tourmaline @73.9-74.25 m, in wk to well zoned lenses of 1-3 cm thick, also @74.75-74.80 granular clots of 2-5 mm in phlogopitic cs, very coarse phlogopite flakes from 75.1-75.2 m ranging from <2-10 mm with fg gn chl & fine-grained prismatic tourmaline +/- actinolite focused on more strongly altered bands <1-3 cm thick
75.30		**E.O.H**		**E.O.H**

DDH04-63
AZ 330 / Dip -75
414688E/6794602N
Elevation: 1744 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: Aug.15, 2004
Date Finished: Aug.16, 2004

From (m)	To (m)	From (m)	To (m)	Description	Sample Number	Depth From (m)	Depth To (m)
0.00	1.52			Casing			
1.52	50.90	Chlorite Schist		grey green wk foliated chlsch w/ qtz and qtz/tourm veins w/tourm alt'n in chlsch; some sections have rusty alt'n; minor flt			
		2.96	3.00	qtz/tourm vein			
				boundaries undulating; 50/50 qtz/tourm; tourm on up hole side of vein			
		4.75	5.00	core loss; broken core			
		6.00	6.48	fault; very unconsolidated strongly tourm alt'd; chlsch; rusty alt'n			
		6.48	7.06	rusty strongly tourm alt'd chlsch			
		9.04	9.92	rusty mod tourm alt'd chlsch			
		10.16	10.35	qtz/tourm vein			
				highly broken; 85% qtz/ 15% tourm			
		10.35	13.00	wk to mod tourm alt'n in chlsch and rusty chlsch			
		13.00	13.16	qtz/tourm vein			
				core broken; 90% qtz/ 20% tourm			
		13.16	14.15	mod tourm alt'n in chlsch			
		14.63	15.15	highly broken rusty mod tourm alt'd chlsch			
		17.45	18.79	rusty wk to mod tourm alt'd strongly foliated chlsch; fol 80 deg tca @ 17.48m and 70 deg tca @ 17.68m			
		22.72	32.10	rusty mod tourm alt'd chslch; tourm xtal'n			
		23.10	25.48	wk to mod tourm alt'n in chlsch	390611	25.00	25.48
		25.48	25.79	qtz/tourm vein w/ VE			
				60% qtz/ 40%; 25.49-25.52 VE!! In cluster (4 cm X 2 cm); emeralds tend to have creamy white halo (white beryl?) around edges;			
				rusty vein selvedges; tr scheelite throughout; creamy white hexagonal beryls xtal @ 215.58; possible other beryl throughout; vein contacts--upper is undulating; lower contact ~ 85 deg tca			
		25.79	26.57	wk tourm alt'n in chlsch			
		26.57	26.65	qtz/tourm vein			
				vein boundaries undulating; 80% qtz/ 20% tourm			
		26.65	26.93	mod tourm alt'n in chlsch			
		26.93	27.03	qtz/tourm vein	390612	26.93	27.59

DDH04-63
AZ 330 / Dip -75
414688E/6794602N
Elevation: 1744 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Twila Skinner
Date Started: Aug.15, 2004
Date Finished: Aug.16, 2004

From (m)	To (m)	From (m)	To (m)	Description	Sample Number	Depth From (m)	Depth To (m)
				50/50 qtz/tourm vein; vein boundaries undulating			
		27.03	27.59	strong tourm alt'n in chlsch			
		27.59	**27.70**	**qtz/tourm vein**	390613	27.59	27.70
				vein boundaries undulating; 85% qtz/ 15% tourm			
		27.70	27.83	strong tourm alt'n in chlsch	390614	27.70	27.83
		27.83	**27.96**	**qtz/tourm vein**	390615	27.83	27.96
				boundaries undefined, broken core; 85% qtz/15% tourm			
		27.96	28.82	strong tourm alt'n in chlsch	390616	27.96	28.82
		28.82	**28.96**	**qtz/tourm vein**	390617	28.82	29.96
				vein boundaries undulating; 65% tourm/ 35% qtz; tr scheelite			
		28.96	31.70	mod to strong tourm alt'n in chlsch	390618	28.96	29.96
		31.70	34.50	wk to mod tourm alt'n in chlsch			
		34.50	34.80	strong tourm alt'n in chlsch			
		34.80	**35.23**	**qtz/tourm vein**	390619	34.80	35.23
				in chlsch; trend of vein 25-30 deg tca; 85% qtz/15% tourm; runs parallel			
		35.23	39.29	*wk tourm alt'n in chlsch*			
		39.29	39.52	strong tourm alt'n in chlsch	390620	39.29	39.52
		39.52	**39.75**	**qtz/tourm vein**	390621	39.52	39.75
				vein boundaries undulating; 60% tourm/ 40% qtz; some carb throghout;			
		39.75	40.92	strong tourm alt'n in chlsch; some qtz veinlets	390622	39.75	40.92
		40.92	**41.70**	**tourm vein**	390623	40.92	41.70
				boundaries undulating; tr scheelite; 1% qtz in vein; minor carb			
		41.70	42.55	strong tourm alt'n in chlsch	390624	41.70	42.55
		42.55	**42.72**	**qtz/tourm vein**	390625	42.55	42.72
				undulating boundaries; 75% qtz/ 25% tourm			
		42.72	44.20	strong tourm alt'n in chlsch	390626	42.72	44.20
		44.20	47.85	vwk-wk tourm alt'n in chlsch; 45.38-46.28m incr mica in chlsch			
47.85		**E.O.H**		**E.O.H**			

DDH04-69
Az 004/ Dip -75
414593E/6793463N
Elevation: 1595 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started:August 13, 2004
Date Finished: August 14, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	0.80			Overburden/Bedrock
0.80	**77.72**	**Chlorite Schist**		
		0.80	7.35	FG CS, minor speckled pcs txt, fine flecks of qtz, chlorite, minor phlogopite
		1.65	1.80	fabric parallel tourmaline
				three layer <1-3 m xtals run 10-15 mm thick
				aggregates, no attendant alteration, fabric 80-85 degrees C/A, most of this unit more gray-green colouration rather than typical darker green in typ cs, more like more intermediate composition metavolc
		6.60	7.50	minor bleaching & ep-ser type alteration
		6.65	**6.70**	**qv**
		6.85	**6.95**	**qv**
		7.35	14.95	fg cs with abundant flecks and layers of biotite and phlogopite
		9.10	14.90	exhibits porphyry pbx texture with cs hosted by phlogopite-rich layers
		13.80	14.00	trace tourmaline
		14.95	18.25	blch cs, ***int*** mv, patchy epidote, generally more massive, less foliation
		18.25	**19.00**	**barren qv in cs, heavily bx, overprinted by calcite matrix, no other alteration or VE**
		19.00	22.85	fg cs similar to above, with flecks of phl/chl, local folded layers, fabric 80-85 deg c/a, alternating pcs/cs common, flows/pillows?
		22.85	25.91	blch zone, massive, as per 14.95-18.25
		24.75	**24.80**	**qv with abundant yellow green epidote (?)**
		25.40		**qv, pod, barren**
		25.91	30.85	fg cs similar to 19-22.8, tourm, QV @ 28.7-28.75m; toutm <5%, fg, <1.3mm int/s qz, weakly bleached and friable on lower contact, minor gyp/cs HRFR, fabric 85 deg c/a
		28.70	**28.75**	**qv**
		30.85	32.55	bleached, massive as per 22.85-25.91m

DDH04-69
Az 004/ Dip -75
414593E/6793463N
Elevation: 1595 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started:August 13, 2004
Date Finished: August 14, 2004

From (m)	To (m)	From (m)	To (m)	Description
		32.55	39.00	foliated, pale gy-gn cs as above, transitional to int comp, TR tourm aggregate 5x 10 mm @ 34.25 m, isolated, zoned, transitional to pcs/cs, minor HRFR cb, in weakly altered (blch) schist, tourm >95%, folded aggregates, weakly zoned, VFG, Fine fractures filled with cb, gn massive 'schist', f-->MG T with agg int/s qtz, as previous @ 36.2 tourm layers in 'schist' as per 35.65-35.70 m, also @ 37.15m & 37.25 m, tourm agg rn sch @ 39.35 ,. ~10-15 mm thick. Rnt/G with chl, tr qz, cc rr stop offsets 40.2 m, ~30-35 deg c/as overall, F-->MG mesh int/g of cc xls, barren parallel to fabric @ 80 deg c/a. Gradational to mixed cs/pcs
		35.65	35.70	tourmaline vein
		35.85	**35.90**	**qv, tourmaline 35%, qtz 65%**
		36.10	**36.15**	**qv, 2 cm thick**
		40.40		**thin qv**
		39.00	55.20	similar to above below 39 m, minor phlogopite bands typ, tr thin qtz stringers hr fr cc, waxy gn chl-ser on fracture surfaces. Minor cb fr fill, typ alternating cs/pcs txt, tr phl/qtz layers, locally folded, fabric 80-85 deg c/a, alternating cs/pcs very consistent
		48.80	48.85	minor qv
		55.20	65.80	vfg cs, med gy-gn chl-biot flecks locally foliated, tourmaline lenses @ 58-5 - 58.6, very fine grained, parallel fabric 85-90 deg c/a, barren, no sec'n, no ve, minor late calcite-filled fractures sub parallel fabric ranging to 30 deg c/a, rare parallel fabric
		64.35		**qv 1-4 cm thick**
		65.80	69.30	transitional to weakly blch similar to previous section, alternating speckled pcs with vrg cs, minor chloritic, barren Q regular, minor hrfr cb, qz, partchy bleached sections from 68-2-69.3 m
		67.00	**67.05**	**qv**
		69.30	77.72	similar to 55.2-65.8 with mainly flecked xs, patchy qtz-ep-ser veins parallel fabric 70-75 deg c/a, minor cb & gyp veinlets perpendicular to fabric 20-25 deg c/a, also parallel fabric, minor blch sections, typically <1-2 cm in fg flecked cs
77.72		**E.O.H.**		**E.O.H.**

DDH04-70
Az 004/ Dip -55
414593E/6793462N
Elevation: 1599 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started: August 13, 2004
Date Finished: August 13, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	1.30			OVB, bedrock BX
1.30	**50.29**	**Chlorite Schist**		
		1.30	7.75	fg cs, locally pcs, patchy qtz-phl-chl layers, mod folding, weak to moderate fabric, minor aggregates of tourm @1.35 m & 1.8 m, <1-3 mm in cs parallel fabric @ 75 deg c/a, minor pcs sections, tr thn qv parallel fabric, barren, ragged, barren
		6.75		**5-8 cm qv**
		6.90		**qv**
		7.20		**folded qv, boudined**
		7.75	16.80	fg cs with flecks of chl-phl & biotite, minor qv with ep-sera +/- sulphide (po-cp?), gyp-cb v @ 10.45 m, oblique fabric, fabric 70-75 deg c/a, more blue greenish chlorite than unit above, vfg-fg cs, friable locally with phlogopite, qv pods @11.3-11.8 m, folded, barren wh Q, biotite more common from 11-13.6m, FG CS with phl from 13.6-16.8, minor folded chlq mica lenses
		16.80	19.60	blcld section, more massive, pl y-gn colouration, similar epidote, minor xcut ext fractures ok gyp/cb, disc two lenses of tour/q (>90% tourm) fg cs, friable, t typ fg-vfg aggregates, collo zoned in cs, heavily blch with ser-ep? Folidation indistinct
		17.15	**17.20**	**thin qtz tourm vein, 40% tourm, 60% qtz**
		18.90	**19.60**	**minor qv dissipating**
		19.60	37.60	fg cs with irregular bands of phlogopite minor qv well folded barren typ <1-2 cm parallel fabric 65 70 deg c/a and locally oblique to fabric with distinct fold features, QT vein (2-3% T, fg aggregate near upper contacts), alteration nil, no ve, thickest vein ~10-13 cm thick @ 20.15 m. Continues with fg cs, q-phl lenses / biotite, qv typ <1-3 cm in thickness, typ q-ep-ser? with no alt'n, traces of gyp/cb v/fr from 23.4-30 m, typically oblique hrfr <2-5 mm locally step offsets in fabric ~70-75 deg @27 m, more speckled pcs txt from 24-27.5 m, fg cs from 27-5-30m, speckled, massive & phl bearing interbanded (see e.g. 26-27m) may be pillowed or tuffaceous txt, more fg cs from 30-37.6 m, minor gyp/ob veins, locally cb bx from 33.3-33.45 m cracked breccia txt with cb matrix of <5-30 cm in thickness, minor phlogopite in layers and grades to phl-biot nears from 33.5-37 m
		22.95	**23.05**	**qv**

DDH04-70
Az 004/ Dip -55
414593E/6793462N
Elevation: 1599 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started: August 13, 2004
Date Finished: August 13, 2004

From (m)	To (m)	From (m)	To (m)	Description
		37.60	40.90	fg cs with pods of zoned tourmaline in weakly blch chl schist, typ txt with qz Q2 absent, sharp contact qv with <1-3% tourmaline, most common in 3 cm section at top of vein from 37.75-37.8 m, locally bright green to pale gn copper oxides e.g. 37.9 m. In qv, includes minor intergrown floating aggregates of white fsp, minor fg tourmaline locally with fsp, also cut by late oblique white gyp/cb veins oblique orientation, common along fractures, no alt'n or ve observed, check vein for white & green beryl other than fsp (see ~39 m)
		40.90	50.29	weakly alt'd fg cs with diss phlogopite as above vein. Weakly blch in proximity to vein, very minor diss losses of tour, <1-2 mm @42.7-42.9 m within typical vrg cs, minor assoc blch & qv from 42.9-43.6 m, sharp contact, no visible alt'n or beryl, cut by late fe-stained q + cb v oblique to fabric, from 44.3-50.3 m mainly fg cs, local pcs as above, very think q stringers on fabric @ 70 deg c/a @ 49 m
		44.1	44.25	qt vein, 40% tourm, 60% qtz
50.29		**E.O.H.**		**E.O.H.**

DDH04-71
Az 338/ Dip -55
414529E/6793547N
Elevation: 1563 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started: August 12, 2004
Date Finished: August 13, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	1.30			OBV, bedrock bx
1.30	**48.53**	**Chlorite Schist**		
		1.30	4.95	fg cs, weakly banded, minor white/gray layers from compositional beds and qtz lenses (veins?), md gn colouration, moderate to well foliated, minor trace phlogopite layers <2-3 mm discontinuous, minor diss pods of fg to aph tourm, zoned, @ 3.25 m, also thin veinlets with 10-15% qtz <5mm thick @ 4.45m; bx cs @ 2.15 m, 4.05 m , probable minor fault gouge, fabric 50 deg c/a
		4.95	5.05	**qz tourmaline vein ~10 cm thick, 90% qtz with massive, 5% ep-sericite int/g, random patches to 2 cm with fg aggs, tourm <5% typically clots of vfg-fg to 2 cm aggregate, no visible alt'n, no ve**
		5.05	16.70	fg cs, banded as above, pcs & phlogopite bearing sections from 1->10 cm, indistinct microfolding, more abundant speckled pcs from 9.6-10.35 m, several thin folded qv barren from 10.5-10.8 m typ <1-2 cm, thick distinct fold/boudin txt, parallel fabric, mg-cg prismatic ep? to 2 cm length 85-90% qtz 5-8% ep, 5-8% chl, no peripheral alt'n, qv boudin 13 m 1-3 cm thick, flecked with fg phl/chl from 12.2-16.7 m, generally vfg cs this section, folded phlogopite bands to 1-2 cm thick
		11.15	11.20	**qtz-epidote (?) vein**
		16.70	33.40	mg-fg pcs, mod to abundant microfolds, fabric 45 deg c/a, fg with qtz core <2 mm thick, parallel fabric, no alt'n or ve, minor q boudin @ 21.15 m, heavily folded, barren, trace hrfr, <5 mm eu-sub t to 3 mm barren, similar @ 23.3 m, barren with 89-90% tourm, <10% qtz, minor bx and rusty staining @ 25.8-26.1 associated with late cb +/- gyp veining oblique to fabric abundance or late fr veining inc up from 27-29.6 m, bx 29.6-29.95 m with minor rusty & chl, gyp/cb veining continues from 29.95-31.0 m with fg chl & attendant late bx and irregular fabric from 30.2-31.0 m, fg cs minor pcs from 31-33.4 m
		17.55		thin tqv <1 cm thick 80% tourm
		21.75	22.40	severe qtz boudin/veins
		22.95		tqv
		33.40	33.55	qv, white, barren, no alt'n, no ve parallel fabric
		33.55	35.30	as above, minor brown veinlet alt'n from 33.8-35.3 m, typ 1-2 mm thick, minor to distinct step faults (microfaults)
		35.30	35.35	qv, barren

DDH04-71
Az 338/ Dip -55
414529E/6793547N
Elevation: 1563 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started: August 12, 2004
Date Finished: August 13, 2004

From (m)	To (m)	From (m)	To (m)	Description
		35.35	35.70	as above
		35.70	35.75	qv pod
		35.75	36.10	cs with minor bn veinlets as above, also tourm aggregates, zoned to 5 mm along fabric in fg cs, no other alt'n
		36.10	36.15	qv barren
		36.15	36.25	as above
		36.25	36.30	q aplite with 10-15% tourmaline
		36.30	45.00	fg cs with mionr bn veinlets and scattered arrays of tourmaline locally with <5-10% qtz, occasionally with brown mineral, tourm typ in clots of <5-15 mm thick, parallel fabric generally vrg-fg agregates, minor assoc wh q, also bn mineral, locally tourm zoned & granular allomorphic txt with int/s qtz, minor to distinct hr extension fractures, tourm located at 36.3 m, 36.5m (~40 cm thick arrays with int/s and fr ful qtz 10-15%), 36.8-37.0 m, 37.15-37.2 m, 37.4 m, 38.85-38.95 m, 39.1-39.2m, 39.4m, 40.2 m, 41.1 m, 42.35 m, 42.55-42.75 m, 42.95-43.05 m, 43.15 m, 43.8 m, 44.5-44.7 m, 44.85-44.9m, typ <1-2 cm in thickness, no distinct peripheral alteration, hosted by vfg fg cs, must check on i.d. for brown mineral
		45.00	47.35	fg cs, minor q & bn veins, fabric very consistent @ 45 deg c/a, more tourm clots incs 45.25 m, 45.55m, 46.15 m, 46.3 m, 46.5 m, 46.8 m, 47.15 m, similar to above section in phlogopite-bearing cs, mainly vrg chlorite with <10-20% qtz in thin stringers of 5-40 mm, rarely aggregates of 10-30 mm
		47.35	47.40	qv with tourmaline 85% qz, 15% tourm, fg int/g tourm & along selvage, minor rusty in alteration, fg-vrg to 15 mm thick, scattered vfg tourm in cs from 48.1-48.53 EOH, as per above, no distinct alt'n, no ve
		47.40	48.53	as previous with tourm closts @ 47.45 m
		47.45	47.50	barren qv, zoned tourm along upper selvage
		47.75	47.80	similar qv with tourm on upper selvage
48.53		**E.O.H.**		**E.O.H.**

DDH04-72
Az NA/ Dip -90
E/N

True North Gems Inc.-
Tsa Da Glisza Project
Diamond Drill Hole
Geologic Log

Logged By: Greg Davison
Date Started: , 2004
Date Finished: , 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	1.30			ovb/vx bedrock cs, tr qv <1 cm barren alt'n absent
1.30	13.25			fg cs, heavily banded with phl?bw, syn m-dk chlorite, thin siliceous bands <2 mm-4 mm, parallel fabric, fabric 60 deg c/a, distinct folds on 5-10 cm scale along compositional zones of fg cs and f-m pcs @4.3m, folded nose-hinges in core from 6.75-8.3 m with distinct transposition of white silicous layers, ptygmatic folds of qv, minor boudins & j.hooks, tr gyp/cb on fractures 20-30 deg c/a orthogonal to fabric, locally abundant speckled pcs from 8.9-9.4 m, fg cs with phlog flecks to 13.25 m
		9.80	**10.00**	**boudined & folded qv <1-3 cm thick, barren, no alt'n**
		10.25	**10.30**	**qv, as previous**
13.25	13.30			fg agg of tourmaline 5-20 mm length prismatic xls in fg cs, isolated, random orientation, no zoning
13.30	15.95			as above, cs-pcs, much speckled, distinct fold features
15.95	16.00			1 cm thick qtv in rg cs, other qv in area, variably folded, qt parallel fabric, 50% vfg tourm, no alt'n, no ve
16.00	18.05			as above, fg cs-pcs
18.05	18.10			2-4 cm thick barren qv, folded
18.10	19.05			vfg foliated cs, minor phlogopite layers
19.05	19.15			10 cm thick barren qv, sharp, parallel fabric
19.15	33.40			vfg fol cs, as above, gradational into vfg fg pcs-cs similar to 13.3-15.95 & others above, tr veining, no alt'n, fabric 50 deg c/a-53 deg c/a, more banded with phlogopite from 24.5 m, from 29 m, hrfr with chl-qtz-fg bn mineral increasing with depth, still cs mainly, rusty bn may be released to late brittle structures such as gyp which <1-3 cm xcut fabric orthogonal ~25-30 deg to c/a, fabric ~60 deg c/a, but variable due to numerous fold features, also fracturing with hematite, dark brown to mauve, common from 30-33.8 m, mod-intense from 33.8-34.1 m, brown mineral in veins combination of clacite, possibily fe cb & fe oxdes, acid reaction in most of thin veins, 34.1-34.75 abundant cc veins, bn to white, angular brsaksge patterns oblique to fabric, greenish cocorstion (bright) in banded schist, gyp/c3 veins perpendicular to fabric @ 45 deg c/a
		29.85		**1.5 cm thin barren qv**
		31.55		**2-3 cm qv**

34.75	38.00			as above cs with spaced qtz, cc, phlogopite, chlorite bands <1-2 mm to 2 cm, within vrg cs, parallel banding consistent @ 45 deg c/a. Typical dislocated & j-hook qtz pods, typ <1-3 cm thick tight folding, locally ptygmatic
		37.40		**barren qtz vein, ~3cm thick**
38.00	38.35			heavily altered & veined by brown carbonate-rich material including calcite, qtz veins, oblique to fabric <5-15 mm thick sys typical blebs of early veins
38.35	38.75			chlorite schist as previous above from 34.75-38.0 m
38.75	39.25			as previous with scattered tourmaline, zoned sprays parallel fabric, in cs & locally associated with selvages of otherwise barren qv pods
39.25	39.55			qtz t vein ~85-90%, 10-15% t, massive wh, T in coarse 1-2 cm needles and fg filted sprays within qtz; coarse needles on lower contact with very weakly brown altered cs, no ve, sharp contact, sub parallel fabric which is distorted near vein from typ 45 deg c/a ranging from 65-85 deg c/a
39.55	39.70			fg cs as above with tourmaline sprays, zoned & locally folded from 5-12 mm in thickness to 39.7 m
39.70	51.20			fg cs as above, with thin qv pods, minor cb, trace tourmaline with qtz pod @ 40.1 m, <5 mm thick on selvage, scattered tourm xls <3 mm @40.55 m in cs, continues in streaky cs with chl-phl +/- cb layers <1-3 mm thick, several barren qtz pods @41.55-41.6, trace tourmaline 41.8 <3 mm in cs, folded chl-phl 43.5-43.75 m, several thin barren qv @ 43.9-44.2 typ 5-25 mm thick on fabric @ 60 deg c/a, minor white pcs speckled sections 44-45 m, several barren qtz pods <1-6 cm thick from 45.25-46.3 m, j hooks, boudins typ, no ve or alt'n, similar from 48.8-49 m, tightly folded 2-4 mm qtz @ 49.9 m, minor phl layers in cs to EOH.

DDH04-72A
Az 023/ Dip -55
414531E/6793547N
Elevation: 1563 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started: August 11, 2004
Date Finished: August 12, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	1.30			ovb/bx bedrock cs, tr qv <1 cm barren alt'n absent
1.30	51.20			
		1.30	13.25	fg cs, heavily banded with phl/bio, *syn* m-dk chlorite, thin siliceous bands <2 mm-4 mm, parallel fabric, fabric 60 deg c/a, distinct folds on 5-10 cm scale along compositional zones of fg cs and f-m pcs @ 4.3m, folded nose-hinges in core from 6.75-8.3 m with distinct transposition of white silicous layers, ptygmatic folds of qv, minor boudins & j.hooks, tr gyp/cb on fractures 20-30 deg c/a orthogonal to fabric, locally abundant speckled pcs from 8.9-9.4 m, fg cs with phlog flecks to 13.25 m
		9.80	**10.00**	**boudined & folded qv <1-3 cm thick, barren, no alt'n**
		10.25	**10.30**	**qv, as previous**
		13.25	13.30	fg agg of tourmaline 5-20 mm length prismatic xls in fg cs, isolated, random orientation, no zoning
		13.30	15.95	as above, cs-pcs, much speckled, distinct fold features
		15.95	16.00	1 cm thick qtv in fg cs, other qv in area, variably folded, qt parallel fabric, 50% vfg tourm, no alt'n, no ve
		16.00	18.05	as above, fg cs-pcs
		18.05	18.10	2-4 cm thick barren qv, folded
		18.10	19.05	vfg foliated cs, minor phlogopite layers
		19.05	19.15	10 cm thick barren qv, sharp, parallel fabric
		19.15	33.40	vfg fol cs, as above, gradational into vfg fg pcs-cs similar to 13.3-15.95 & others above, tr veining, no alt'n, fabric 50 deg c/a-53 deg c/a, more banded with phlogopite from 24.5 m, from 29 m, hrfr with chl-qtz-fg bn mineral increasing with depth, still cs mainly, rusty bn may be released to late brittle structures such as gyp which <1-3 cm xcut fabric orthogonal ~25-30 deg to c/a, fabric ~60 deg c/a, but variable due to numerous fold features, also fracturing with hematite, dark brown to mauve, common from 30-33.8 m, mod-intense from 33.8-34.1 m, brown mineral in veins combination of calcite, possibily fe cb & fe oxdes, acid reaction in most of thin veins, 34.1-34.75 abundant cc veins, bn to white, angular breakage patterns oblique to fabric, greenish coloration (bright) in banded schist, gyp/c3 veins perpendicular to fabric @ 45 deg c/a
		29.85		**1.5 cm thin barren qv**
		31.55		**2-3 cm qv**

From (m)	To (m)	From (m)	To (m)	Description
		34.75	38.00	as above cs with spaced qtz, cc, phlogopite, chlorite bands <1-2 mm to 2 cm, within vrg cs, parallel banding consistent @ 45 deg c/a. Typical dislocated & j-hook qtz pods, typ <1-3 cm thick tight folding, locally ptygmatic
		37.40		**barren qtz vein, ~3cm thick**
		38.00	38.35	heavily altered & veined by brown carbonate-rich material including calcite, qtz veins, oblique to fabric <5-15 mm thick also typical blebs of early veins
		38.35	38.75	chlorite schist as previous above from 34.75-38.0 m
		38.75	39.25	as previous with scattered tourmaline, zoned sprays parallel fabric, in cs & locally associated with selvages of otherwise barren qv pods
		39.25	39.55	qtz t vein ~85-90%, 10-15% t, massive wh, T in coarse 1-2 cm needles and fg filted sprays within qtz; coarse needles on lower contact with very weakly brown altered cs, no ve, sharp contact, sub parallel fabric which is distorted near vein from typ 45 deg c/a ranging from 65-85 deg c/a
		39.55	39.70	fg cs as above with tourmaline sprays, zoned & locally folded from 5-12 mm in thickness to 39.7 m
		39.70	51.20	fg cs as above, with thin qv pods, minor cb, trace tourmaline with qtz pod @ 40.1 m, <5 mm thick on selvage, scattered tourm xls <3 mm @ 40.55 m in cs, continues in streaky cs with chl-phl +/- cb layers <1-3 mm thick, several barren qtz pods @ 41.55-41.6, trace tourmaline 41.8 <3 mm in cs, folded chl-phl 43.5-43.75 m, several thin barren qv @ 43.9-44.2 typ 5-25 mm thick on fabric @ 60 deg c/a, minor white pcs speckled sections 44-45 m, several barren qtz pods <1-6 cm thick from 45.25-46.3 m, j hooks, boudins typ, no ve or alt'n, similar from 48.8-49 m, tightly folded 2-4 mm qtz @ 49.9 m, minor phl layers in cs to EOH.
51.20		**E.O.H.**		**E.O.H**

DDH04-73
Az N/A/ Dip -90
414566E/6793500N
Elevation: 1581 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started:August 11, 2004
Date Finished:August 11, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	0.80			ovb, bedrock bx
0.80	**30.48**	**Chlorite Schist**		
		0.80	6.20	fg cs with flecks of biotite +/- chlorite & tr phlogopite typ <1-5 cmm or locally weakly layered txt, fabric 80-85 deg c/a, mionr oblique to perpindicular gyp/cb/chl hr fr, ranging from 20-35 deg c/a, minor blebby to speckled txt with pcs in sections of <5-15 cm thick e.g. 3.2-3.35 m. Axes parallel schistosity typ <1-2 cm thick, several thin qv lenses <1 cm barren from 5.95-6.05 m, also 6.25-6.35 m thick qtz pods, boudin wh q with chl, barren
		3.00		hrfr qv 1 cm thick, barren
		3.15 m		hrfr qv 5-8 cm thick, barren
		5.20	5.60	folded qv with chlorite/phlogopite
		6.20	8.30	as above with pbx txt, chl schist and angular to anastamosing phlogopite & biotite +/- interstitial, minor pcs
		8.30	17.75	type sections, mainly fg to vfg cs, folding distinct to indistinct, minor rusty section from 8.5-11.2 m, fabric 70-75 deg c/a, rusty micas with indistinct banded txt ranging from <2-5 mm to sections of 20-30 cm through discontinous and variable intensity, generally just overprints schist txt, no veining evident, colour banding with thin qz lenses, extensive microfolding with severely flat axial planes, from 11.2 m, back to weakly banded cs, with thin chlorite-rich layers, trace thin qv pods, associated with fold hinges. Generally absent flecked biotite observed from 0-6 m section. Continues as fg cs dominant with minor phlog & siliceous bands, fabric 80-85 deg c/a @ 15 m, minor anastimosing chl-phlog-silica pbx txt @ 17-17.3 m, minor p or siliceous blebs <2-3 mm
		17.75	17.80	qv with tourmaline, qz margins within int/g tourmaline ~2-3 cm thick, ~50-55 deg c/a, modular qtz with int/s tourm, generously vrg-fg aggregates, weakly zoned, locally tourmaline in contact with vfg chlorite, no ve, no peripheral alteration, 40-45% tourmaline
		17.80	19.15	vfg cs as above, minor variability with rare thin qv 1-15 cm, ~45-50 deg c/a @ 18.2 m
		19.15	23.10	back to cs with distinct phlogopite-rich layers/lenses, minor bx @ 15.35-19.4m, qv @ 19.8 m ~5 cm thick with <5% tourmaline bx peripheral in chlorite schist, grades quickly to phlog cs with lenses or layers 5-40 mm thick of pcs/phlogopite pcs interbanded with cs, very minor tourm? within chl schist/phl chlo schist @ 21.2 m adjacent phl pcs lense, mionr gyp + c/a @21.3-21.5 m
		23.10	24.30	as above, with few scattered, rusty alteration similar to 8.5-11.2 m

DDH04-73
Az N/A/ Dip -90
414566E/6793500N
Elevation: 1581 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started:August 11, 2004
Date Finished:August 11, 2004

From (m)	To (m)	From (m)	To (m)	Description
		24.30	30.48	trace <2% tourmaline in thin lense parallel fabric @ 24.5 m, (5-8 mm thick) tourm fg-locally few needles (~3 cm lense in length), no peripheral alt'n other than chlorite, minor qtz pods barren with assoc epidote over 5 cm @ 24.55-24.75 m, also from 24.9-25.15 m, more phlogopite content below 25.2 m, thin tourm lense @ 25.3 m in cs, bx with int/s chl, no ve, no alteration, discontinuous, from 25.3-30.48 typical fg cs, pcs f-->mg, & phlogopite-bearing chl schist with little or distinct pbx txt, locally flecked cs similar to 0.8-6.2 m, fabric steep >70-80 deg c/a with fluctuations due to folding, locally flat late step fractures @15-25 deg c/a, several heavily sheared/fracture zones from 29.05-29.55, <1-3 cm thick along fabric, and slightly oblique @ 45-50 deg c/a, folded compositional layering exhibited 29.6-29.7 m, barren qv pods/boudin 3-5 cm thick @ 30.1 m, no alteration or ve
30.48		**E.O.H.**		**E.O.H.**

DDH04-74
Az NA/ Dip -90
414581E/6793480N
Elevation: 1598 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started: August 10, 2004
Date Finished: August 11, 2004

From (m)	To (m)	From (m)	To (m)	Description
		0.00	0.40	ovb, bedrock bx
		0.40	1.70	qv in fg cs @ 0.7 m, 3 cm thick wh-gy qv, no alt'n, parallel fabric, md gn, hrfr qv parallel fabric, also minor gy fr v fabric 70-85 deg c/a, generally ~80 deg c/a
		1.70	7.05	f-->mg pcs, numerous q lenses, folded, diss phlogopite in some sections, indistinct microfolds, chlorite-phlogopite (c>p), minor blch, ser-ep?, 80 deg fabric @ 6.5 m
		4.60	5.10	irregular qv in fg-mg cs-pcs
		5.75		qv with folded txt, barren wh q
		7.05	10.00	fg cs dominant, thin qv wh, barren, nil alteration, rare blch adj qv ~8.2 m
		10.00	12.95	F-->mg pcs with minor phlogopite, indistinct pbx txt from 11-12.75 m, lenses of mica-rich with chlorite and v fg cs, minor hrfr qv, blebby chlorite flecks (rare amphibole?), minor gyp v 5-15 deg c/a/, 11.5-12.5 m
		12.95	51.82	fg cs dominant, minor pcs (vfg-fg) & phlogopite-bearing sections, minor pbx txt, with microfolds, minor step offsets, patchy mg pcs sections within fg cs (appears gradational contacts), minor ptygmatic folds in qv along axes of schistosity, thin gyp fr 20-30 deg c/a, fabric ~ 75 deg c/a @ 24 m, elevated phlogopite below 22.8 m & again from 24-26 m, fg tourm in well folatiated fg cs, only very mionr qtz interstitial <5%, no ve. Contiues fg phlog cs, minor hrfr qv, minor rusty alt'n @25.8-25.9 m in cs, no ve, tr tourmaline in cs 27.9-28.1 m, <5mm disseminated, qv-tv @ 28.1-28.2 m, wh qtz with 15-20 % tourm agg and needles for dist'n of tourm typ, nil alt'n, no ve. fg cs continues to 31.2 m, increased bands & pods of phlog & qtz similar to above from 31.2-34.2 m,
				distinct microfolds from 33.4-33.8 m, tight &locally dislocated, grades to fg cs at 34.2-35.05 m, tourm diss layers from 34.98-35.55 m, with blocky aggregate (v?) with <20% qtz from 35.05-35.15 m, primarily fg tourm with int/s qtz wh <1-3mm, tourm vfg <1-4mm typ thin folded layers of tourmaline <2-4 mm thick, distinctly zoned, in fg cs mionr offsets with late oblique qv, additional tourm lenses from 35.9-36.35 m,
		14.55		minor late extensional gyp/qv perpendicular to fabric
		24.50	24.60	tourmaline dominant aggregates/vein
51.82		**E.O.H.**		**E.O.H**

DDH04-75
Az N/A/ Dip -90
414594E/6793462N
Elevation: 1595 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started: August 9, 2004
Date Finished: August 10, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	0.60			ovb, bedrock bx
0.60	**53.34**	**Chlorite Schist**		
		0.60	0.85	fg cs, locally pcs with typical thin qv lenses, parallel fabric
		0.85	0.90	qv + tourmaline vein, sharp contacts minimal selvage alt'n, very minor rusty, no penetration >5-10 mm, tourm aggregates to 1x4 cm, qtz v fg wh-gy, parallel fabric, 70 deg c/a
		0.90	1.35	pcs with lenses/layers of tourmaline to 1 cm thick, no visible alt'n, zoned composition typ., also follows oblique qv sub parallel c/a with tourm selvages to 1.5 cm thick locally microfolds assoc axial plane of schistosity
		1.35	7.90	f-->mg pcs, incipient blching, blebs of secondary fsp to 3-4 mm, deformed lenses of disagg qv? Minor biotite or phlogopite in layers to 2 mm, folding/boudin qv+/-ep (6.2 m) & (7.1-7.95m), minor ser-musc, tr tour <1-5 mm @ 8.05 m
		7.90	14.10	fg cs, blot & phlog diss layers <1-33 mm thick, displays pbx txt with anastomosing mica fabric, v. minor oblique gyp v @30-45 deg c/a, fabric @70-75 deg c/a, gyp v 10.25 , 10.5 m hrfr with offsets, typ waxy gn, txt on planar surfaces, fine microfolds common, axes parallel fabric, minor qz-ep pods/lenses from 14.1 m to 14.3 m, complex microfold txt, typ <2-10 mm thick, phlogopite blebs inc up in fg cs
		14.10	19.80	fg cs, minor Plag+phl, fault + minor qv possible aplite at 14.6-14.9m, rock bx with core loss; no evident mineralization orientation?, continues fg cs, tr gyp 30 deg c/a, tr thin qv +/- ser/ep?, minor pbx txt with phlogopite 15.8-16.05 m, minor fault bx 16.6-16.65 m, 45-50 deg c/a, from 16.65-19.8 fg cs with diss phlog blebs, thin qv minor pbx txt, inc up pcs from 18.3 m
		19.80	20.10	qv, white bull qz, minor dk gn chlorite sharp contacts parallel fabric 75 deg c/a
		20.10	35.15	as per 16.65-19.8 m, folded/boudins, no alt'n selvages, minor pbx txt, rare gyp v 35-45 deg c/a common, patchy pcs fg-mg, 24.4-24.6 m, also from 26-26.5 minor q ep with minor blch fabric >80 deg c/a @ 26.5 m, SOS, fabric 70 deg c/a, minor pcs with q blebs inc up below 30.5-32.1 m, colouration of chlorite, % of por q blebs variable over 2-20 cm (protolith txt related?)
		21.80	22.10	thin qv lenses
		27.40		thin qv (3cm), barren
		28.35		qv 1-2 cm
		35.15	35.20	qv irregular, nil alt'n, possible ink or amph/pyx xls in qv irr blocky to fg aggregates to 3-15 mm, wh qtz
		35.20	39.10	fg cs as per above, rare qv to 2 cm, barren, parallel fabric, minor oblique hrfr

DDH04-75
Az N/A/ Dip -90
414594E/6793462N
Elevation: 1595 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started: August 9, 2004
Date Finished: August 10, 2004

From (m)	To (m)	From (m)	To (m)	Description
		39.10	40.50	as above with diss clots of zoned tourmaline typ <5mm-10 mm, tr gyp v perpendicular c/a, thin qv as above, nil alt'n
		40.50	42.15	as above, minor ep+/- chl+/-qz alt'n blebs, lenses to 10 cmm thick, irr tr qz-tour @41.05m, minor phlog below 41.0 m
		42.15	45.55	as above with rare tourmaline aggs typ <5-10 mm, also visible from 42.95-43.15, 43.35-43.55 m in fg cs +/- phlog (vfg), very minor folded hr qv, boudins to 5-15 mm thick, tr tourm <5mm 43.8 m, 44.8 m
		45.55	46.10	fabric 80 deg c/a, abundant folded qv boudins, increased and coarser grained phlogopite, gyp v @ 10 15 deg c/a, @45.7-45.95 m
		46.10		fg cs, tr phlog as per 42.15-45.55, minor qz-ep veins, folded <1-2 cm, typ <5-10 cmm, no alteration, typ fg cs locally fg pcs & phlogopite, tr gyp v sub parallal c/a, fabric @ 80-85 deg c/a
53.34		**E.O.H.**		**E.O.H.**

DDH04-76
Az NA/ Dip -90
414605E/6793447N
Elevation: 1600 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started:August 9, 2004
Date Finished: August 9, 2004

From (m)	To (m)	From (m)	To (m)	Description
0.00	0.80			OBV, Bedrock bx, fsp-chl schist, pale-md gn, tightly folded MQV, transposed & detached on principal fabric perpendicular to c/a, minor HM, FeO(OH), cc & gyp on late irr fractures
0.80	**51.82**	**Chlorite Schist**		
		0.80	1.95	fsp-chl schist as above, fabric development weak to moderate, microfold or boudinage txt fsp-chl-cc?, fabric perpindicular to c/a
		1.95	2.00	QV fg wh with intergrown cc + ser +/-ep, wk perhipheral alt'n of chl schist
		2.00	5.80	cs with higher fabric dev, oblique fractures with cc/gyp @ 25-30 deg c/a, from 2.05-2.15 & 2.40-2.55 m with cb, qz bx, & scattered chl (clay?), qz-cc-gyp fractures @ 3.65 m @ 30-40 deg c/a, actinolite clots to 1.5 cm @ 3.8 m, fabric 80-90 deg c/a, proportion of folded qv lenses & blebs highly variable, size from <2 mm - 10mm typ, 5.2-5.65 irr subvertical fr with gyp/cb fg-vfg wh-bn orthogonal fabric ~85-90 deg c/a, similar @ 6.1, 6.7 m
		3.25	3.30	qz-ser-ep vein 3 cm
		4.60	4.65	irr qv with chl, transected by lt gyp/cb 45 deg c/a
		4.75	4.80	qv-chl cut by lt gyp/cb as previous
		5.80	9.05	chl shist with finer grain size, fine diss chl (post actinolite <2mm typ), fg fsp poss ab <2mm, hrfr similar from 7.5-7.65 m, 8.1-8.15 m, must <10-20 mm in thickness, oblique to perpendicular fabric @ 85-90 deg c/a, gyp fr 20 deg c/a @ 8.85 m
		7.30	7.35	qz-chl-ser+/-ep vein
		7.90	7.95	qz-chl-ser+/-ep vein
		9.05	15.00	cs-pcs variable vfg-mg fsp & disaggregated qv threads, locally fine augen txt, minor aggregates of fg phlogopite assoc mqv & fabric typ <2-5 mm thickness. Locally tightly folded zigzag txt assoc fabric slip, 11.15 m, gyp-cb 30-40 deg c/a, locally offset on fabric, also @ 12.25-12.30 m, perpendicular to fabric, 12.30-12.45 m 40 deg c/a step fr with gyp/cb. Fabric variable 65-70 deg c/a @ 12 m, similar @13.85 m, gyp step fr, minor act clots @14.2 m to 2 cm (possibily aggregates of tourmaline, with fg-assicular txt), also 14.95-14.97 m
		15.00	17.50	cs-dominant, chl flecks to 3 mm along fabric, gyp/cb fr 15.85 m @ 30 deg c/a, fabric 80-85 deg c/a, several gyp/cb fr from 16.25-16.8 m to contact at qv cs weakly blch from 16.25-16.80 m sharp qv contact, bull wh q with minor pk fsp to 5 mm, 40-50 deg c/a with peripheral bx to 17.03 m, scattered hrfr by 40-50 deg d/a, <1-2 mm
		17.50	18.60	cs-pcs, scattered phlog lenses to 3 mm, minor gyp/cb for 30-70 deg c/a, minor fg actinolite or tourm with phlog, typ <3-5 mm
		18.60	18.85	thin qv with f-->mg tourmaline 5-15%, bx by cb +/- gyp with blching of cs, definite

DDH04-76
Az NA/ Dip -90
414605E/6793447N
Elevation: 1600 m

True North Gems
Tsa da Glisza Project
Geologic Log

Logged By: Greg Davison
Date Started:August 9, 2004
Date Finished: August 9, 2004

From (m)	To (m)	From (m)	To (m)	Description
		18.85	22.35	core loss from 18.65-18.8m, minor to trace fg tourmline to 19.1m, increased phlogopite from 19.1-20.2 m. Late cc/gyp fr @ 20.2 m, 15-20 deg c/a. Minor drag folds in qf layers axis parallel to fabric, 80 deg c/a, similar gyp @ 20.7 m @ 40 deg c/a, also @21.15 m, 21.5 m, locally with step txt in pcs with phlogopite layers to 22.35 m
		19.80		mionr qv 2 cm with ep? Blching
		22.35	25.40	fg cs, chl flecks, protoboudin stretching parallel fabric 75 deg c/a, qv fr from 22.95-23.05 m <5-15 m, wk boudin txt, minor blch, generally cs fine grained, darker green, well folidated to 23.8 m, wkly blch to 24.25 m, well fol cs 24.25-25.4 m fabric 89-90 deg c/a, hrfr gyp/cb irr angle, barren to 24.75 m, minor tourm <2-15 mm agg @ 25.2 m
		22.85		thin qv 1-2 cm
		25.40	28.00	mg pcs as above, gyp 45-50 deg c/a 1-2 cm @ 26.0-26.25 m, very minor phlogopite, gyp step fr @ 27.6 @ 5-20 deg c/a, also @ 27.9-28 m
		28.00	32.50	fg cs with minor phlog layers to 5 mm, microfolding of q & phlog layers, fr with gyp/cs sub parallel to 15 deg c/a from 28.8-29.6 m, hr qv to 25 mm parallel fabric to 32 m, thin gyp/cb flat to 45 deg c/a from 31.4-32.4 m, typ <3mm thick commonly 35-45 deg c/a
		32.50	39.40	mg pcs, speckled txt, fabric still >80 deg c/a with minor local undulations, local fg cs banded c mg pcs 80-85 deg c/a, coarse gyp/cb v 20 deg c/a, 35.15-35.5 m, fabric 90 deg c/a, thin barren q f s blebs <5-15 mm, generally finer cs-pcs from 35-37.6m, qz-ep in fr? to 5-8 mm, see 37.2 m, m-c pcs from 37.6-39.4 m, typ speckled txt, qv 4 cm @ 39.4 m with several boudins & disagg v from 39.4-39.85 m, typ <1-4 cm thick
		39.40	42.70	parallel to fabric, 85-90 deg c/a, from 39.4-42.7 m, vf cs, hrfr qv +/- gyp/cb, thin phlog layres <3-5 mm, v.minor tourmaline 40.65-41.4 m, typ <2-4 mm in aggregates <1-2%, inc up in size from 41.9 m to colloform style aggregates aligned on fabric distinct from 42-42.5 m up to 1.5 cm thick typ <5-8mm, discontinuous, spaced 3-5 cm common
		42.70	43.70	mg-fg pcs, minor gyp/cs fr 30-60 deg c/a, typ <1-3 mm thick, fabric 80-85 deg c/a
		43.70	49.05	fg cs as per 39.4-42.7 m, also patchy aggregates of tourmaline principally within schist (chl) disc aggs fg zoned 43.7-45 m, 46.65-46.7 m, 48.5-48.75 m, finely diss clots, microfolded qv, thin
		49.05	50.10	gyp/cb v <1-10 mm 40-50 deg c/a, also sub parallel irregular @49.5-50.05 m orthogonal to fabric. Generally f-mg pcs with thin q lenses, similar above
		50.10	51.82	fg cs, with thin phlogopite lenses + tr tourmaline @50.35 m <5 mm zoned fabric 80-85 deg c/a, minor gyp/cb fr 51.1-51.6 m, subparallel c/a
51.82		**E.O.H.**		**E.O.H.**

APPENDIX 4 – DRILL SECTIONS LINE 0 N

DDH04-28

DDH04-29

1800 mN

1750 mN

1700 mN

1650 mN

Td

Ka

Alteration

Geologic Legend

- Alteration Package
- Q
- Td
- Kg
- Ka
- Kq, Kt, Kqt
- MKfv
- MKcp
- MKrq
- DF
- DF1
- DF2
- DF3
- Dmi/DF
- Dmi
- Dum

HoleID

W (ppm)
Histogram
0.01 mm/unit at 1:200

Be (ppm)
Histogram
0.1 mm/unit at 1:200

Lithology

EOH

Structural Legend

- Emerald
- Fault
- Contact
- Vein
- Foliation

094540

True North Gems

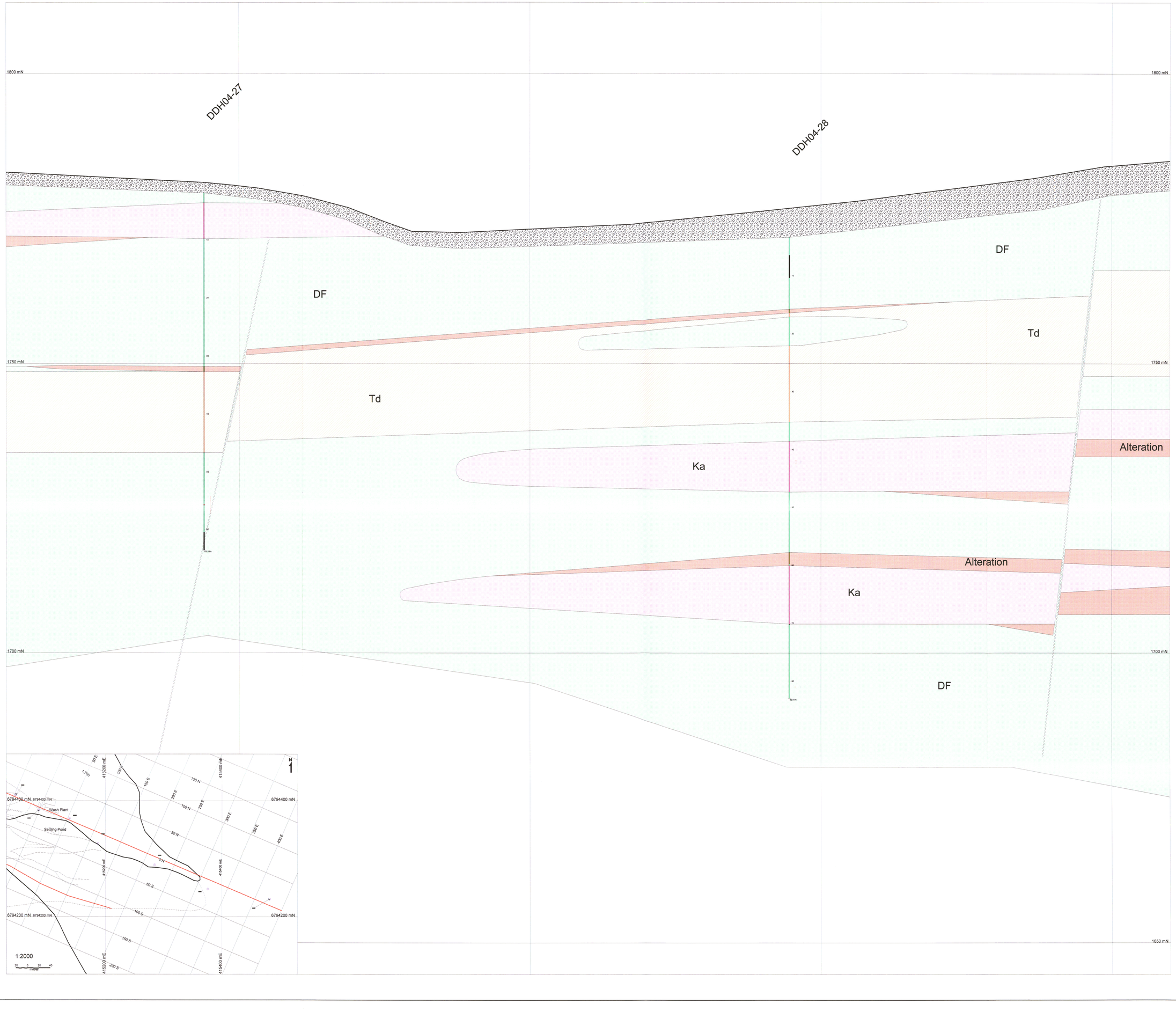
Tsa Da Glisza Project

Transversal Section

0 N
Section 7

Date: 15/04/2005	
Author: JGD, TS	
Office:	
Drawing: BP	
Scale: 1:200	Projection: Non-Earth (meters)

2.5 0 2.5 5
metres


1800 mN
1800 mN
DDH04-27
DDH04-28
DF
DF
Td
1750 mN
1750 mN
Td
Alteration
Ka
Alteration
Ka
1700 mN
1700 mN
DF
1650 mN
1:2000
metres
6794400 mN
6794400 mN
Wash Plant
Settling Pond
6794200 mN
6794200 mN
415500 mE
415400 mE
415300 mE
415200 mE
N
1
Geologic Legend
Alteration Package
Q
Td
Kg
Ka
Kq, Kt, Kqt
MKtv
MKcp
MKrq
DF
DF1
DF2
DF3
Dmi/DF
Dmi
Dum
HoleID
W (ppm)
Histogram
0.01 mm/unit at 1:200
Be (ppm)
Histogram
0.1 mm/unit at 1:200
Lithology
EOH
Structural Legend
Emerald
Fault
Contact
Vein
Foliation
094540
True North Gems
Tsa Da Glisza Project
Transversal Section
0 N
Section 6
Date: 15/04/2005
Author: JGD, TS
Office:
Drawing: BP
Scale: 1:200
Projection: Non-Earth (meters)
2.5 0 2.5 5
metres

DDH04-26

DDH04-27

1800 mN

1750 mN

1700 mN

1650 mN

DF

Ka

Alteration

Dmi

Td

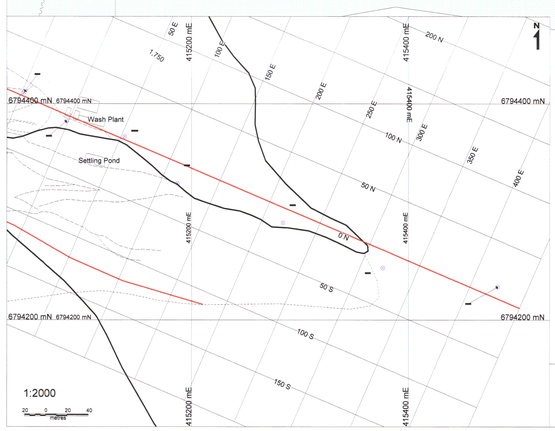
Ka

DF

Td

Ka

DF



Geologic Legend

Alteration Package

Q
Td
Kg
Ka
Kq, Kt, Kqt
MKfv
MKcp
MKrq
DF
DF1
DF2
DF3
Dmi/DF
Dmi
Dum

HoleID

W (ppm)
Histogram
0.01 mm/unit at 1:200

Be (ppm)
Histogram
0.1 mm/unit at 1:200

Lithology

EOH

Structural Legend

Emerald

Fault

Contact

Vein

Foliation

094540

True North Gems

Tsa Da Glisza Project

Transversal Section

0 N
Section 5

Date: 15/04/2005	
Author: JGD, TS	
Office:	
Drawing: BP	
Scale: 1:200	Projection: Non-Earth (meters)

2.5 0 2.5 5
metres

DDH04-25

DDH04-39A

DDH04-26

1800 mN

1750 mN

1700 mN

1650 mN

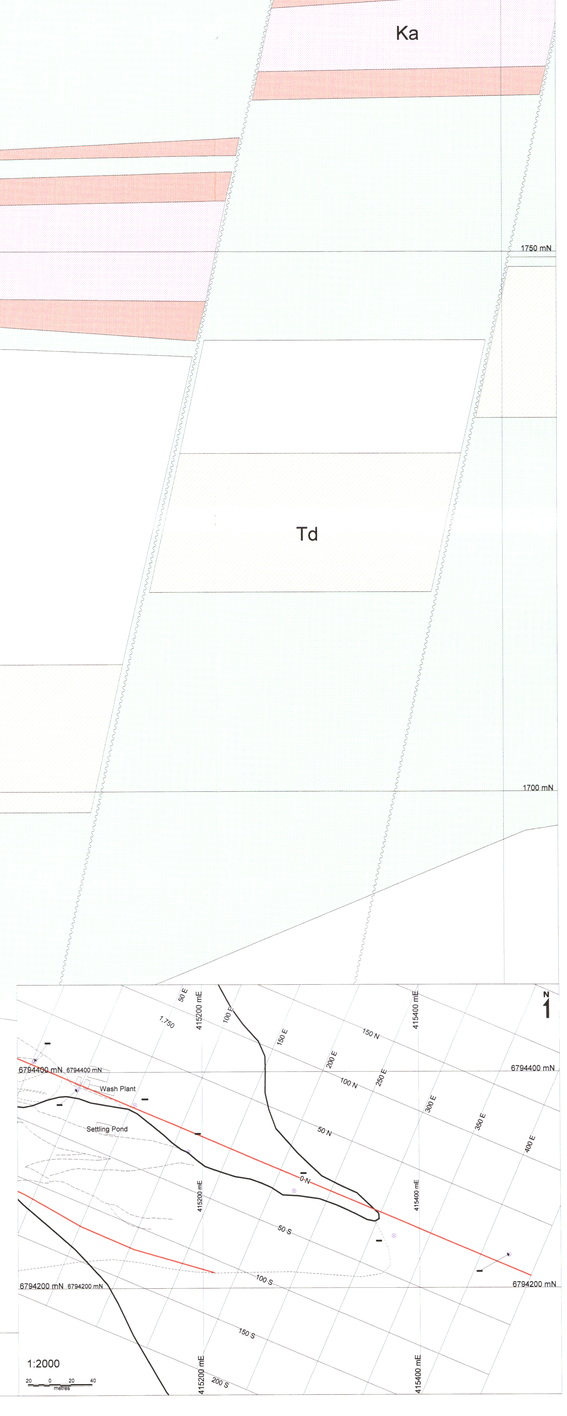
DF

Alteration

Ka

Dmi

Td



Geologic Legend

Alteration Package

Q
Td
Kg
Ka
Kq, Kt, Kqt
MKfv
MKcp
MKrq
DF
DF1
DF2
DF3
Dmi/DF
Dmi
Dum

HoleID

W (ppm)
Histogram
0.01 mm/unit at 1:200

Be (ppm)
Histogram
0.1 mm/unit at 1:200

Lithology

EOH

Structural Legend

Emerald

Fault

Contact

Vein

Foliation

094540

True North Gems

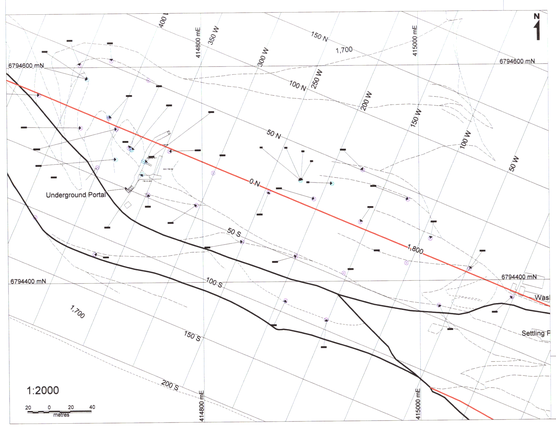
Tsa Da Glisza Project

Transversal Section

0 N
Section 4

Date: 15/04/2005	
Author: JGD, TS	
Office:	
Drawing: BP	
Scale: 1:200	Projection: Non-Earth (meters)

2.5 0 2.5 5
metres

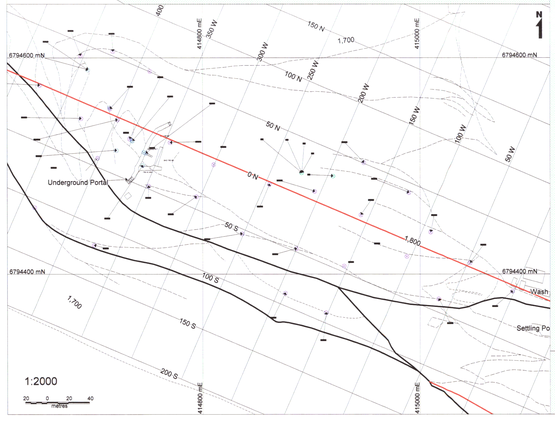
DDH04-35
DDH04-37
DDH04-23
DDH04-34
DDH04-25
1800 mN
1750 mN
1700 mN
1650 mN
DF
Alteration
Alteration
Ka
Dmi
Td


Geologic Legend
Alteration Package
Q
Td
Kg
Ka
Kq, Kt, Kqt
MKfv
MKcp
MKrq
DF
DF1
DF2
DF3
Dmi/DF
Dmi
Dum
HoleID
W (ppm)
Histogram
0.01 mm/unit at 1:200
Be (ppm)
Histogram
0.1 mm/unit at 1:200
Lithology
EOH
Structural Legend
Emerald
Fault
Contact
Vein
Foliation
094540
True North Gems
Tsa Da Glisza Project
Transversal Section
0 N
Section 3
Date: 15/04/2005
Author: JGD, TS
Office:
Drawing: BP
Scale: 1:200
Projection: Non-Earth (meters)
2.5 0 2.5 5
metres

DDH04-22
DDH04-36
AD-2
AD-4
AD-1
AD-3
DDH04-24
DDH04-35

1800 mN
1750 mN
1700 mN
1650 mN

Alteration
Alteration
Ka
DF
DF



Geologic Legend

Alteration Package

Q
Td
Kg
Ka
Kq, Kt, Kqt
MKfv
MKcp
MKrq
DF
DF1
DF2
DF3
Dmi/DF
Dmi
Dum

HoleID
W (ppm)
Histogram
0.25 mm/unit at 1:200
Be (ppm)
Histogram
0.1 mm/unit at 1:200
Lithology
EOH

Structural Legend

Emerald
Fault
Contact
Vein
Foliation

094540

True North Gems

	Tsa Da Glisza Project
Date:15/04/2005	**Transversal Section**
Author: JGD, TS	**0 N**
Office:	**Section 2**
Drawing: BP	
Scale: 1:200	Projection: Non-Earth (meters)

2.5 0 2.5 5
metres

1800 mN

1750 mN

1700 mN

1650 mN

DDH04-44

DDH04-41

DDH04-15

DDH03-13

DDH03-14

DDH04-52A

DDH04-62

DDH03-06

DDH03-05

DDH04-38

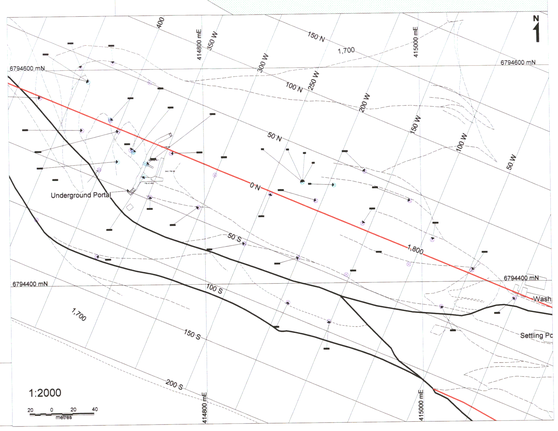
DDH04-22

DF

Alteration

Alteration

DF



Geologic Legend

- Alteration Package
- Q
- Td
- Kg
- Ka
- Kq, Kt, Kqt
- MKfv
- MKcp
- MKrq
- DF
- DF1
- DF2
- DF3
- Dmi/DF
- Dmi
- Dum

HoleID

W (ppm)
Histogram
0.01 mm/unit at 1:200

Be (ppm)
Histogram
0.1 mm/unit at 1:200

Lithology

EOH

Structural Legend

- Emerald
- Fault
- Contact
- Vein
- Foliation

094540

True North Gems

Tsa Da Glisza Project

Transversal Section

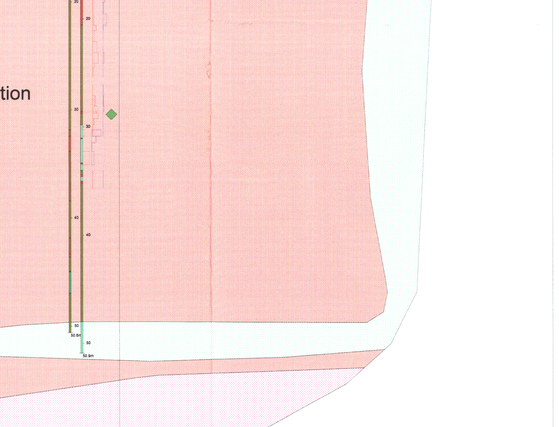
0 N
Section 1

Date: 15/04/2005	
Author: JGD, TS	
Office:	
Drawing: BP	
Scale: 1:200	Projection: Non-Earth (meters)

2.5 0 2.5 5
metres

APPENDIX 5 – DRILL SECTIONS LINE 50 N

DDH04-53
DDH04-16
DDH04-54
DDH04-17
1700 mN
1650 mN
1600 mN
Alteration
DF
Ka
DF
Td
1700 mN
1650 mN
1600 mN



Geologic Legend

- Alteration Package
- Q
- Td
- Kg
- Ka
- Kq, Kt, Kqt
- MKfv
- MKcp
- MKrq
- DF
- DF1
- DF2
- DF3
- Dmi/DF
- Dmi
- Dum

HoleID
W (ppm) Histogram 0.01 mm/unit at 1:200
Be (ppm) Histogram 0.1 mm/unit at 1:200
Lithology
EOH

Structural Legend

- Emerald
- Fault
- Contact
- Vein
- Foliation

094540

True North Gems

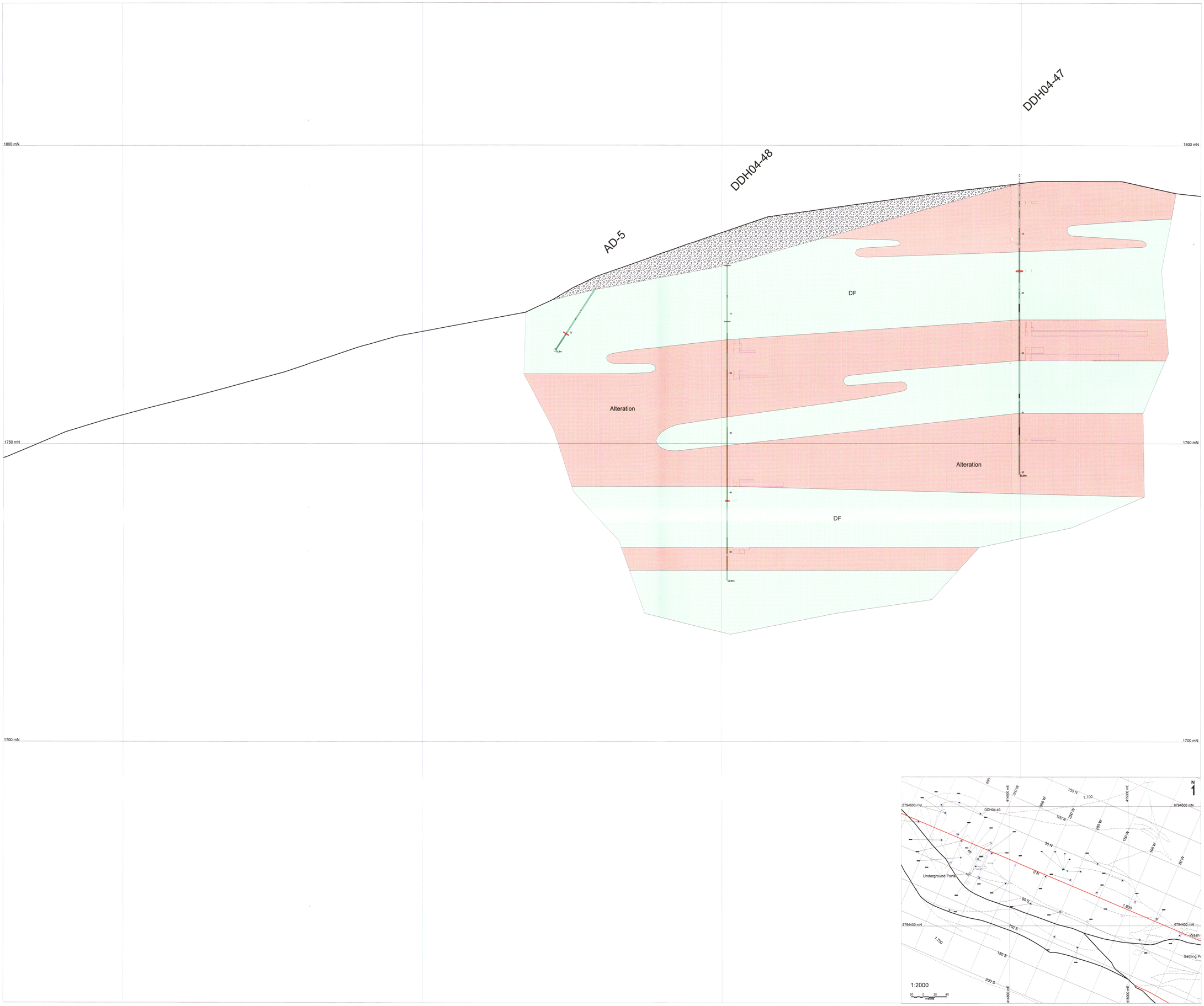
Tsa Da Glisza Project

Transversal Section

100 N

Date: 15/04/2005	
Author: JGD, TS	
Office:	
Drawing: BP	
Scale: 1:200	Projection: Non-Earth (meters)

2.5 0 2.5 5
metres



Geologic Legend

- Alteration Package
- Q
- Td
- Kg
- Ka
- Kq, Kt, Kqt
- MKfv
- MKcp
- MKrq
- DF
- DF1
- DF2
- DF3
- Dmi/DF
- Dmi
- Dum

HoleID
W (ppm) Histogram 0.01 mm/unit at 1:200
Be (ppm) Histogram 0.1 mm/unit at 1:200
Lithology
EOH

Structural Legend

- Emerald
- Fault
- Contact
- Vein
- Foliation

094540

True North Gems

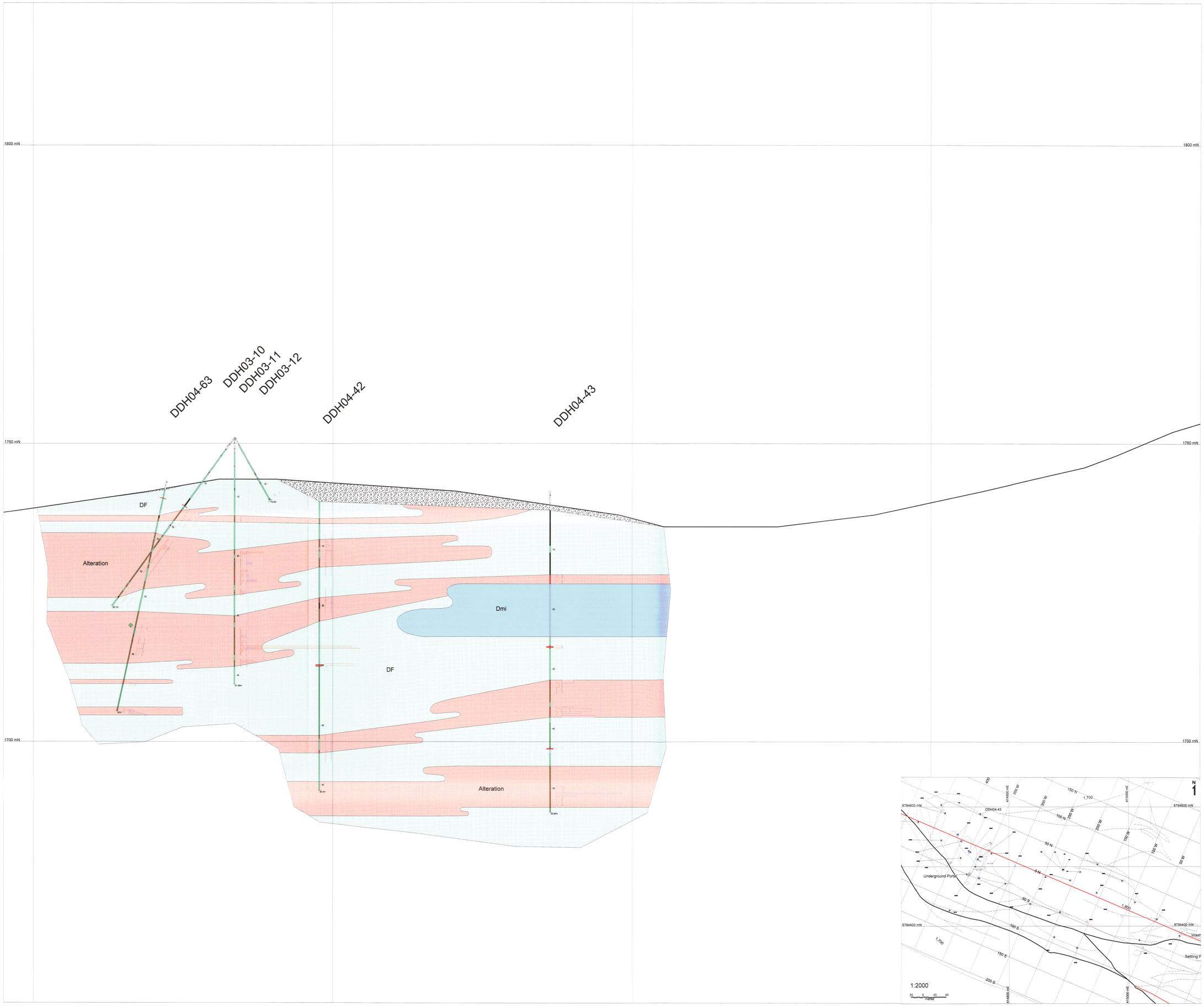
Tsa Da Glisza Project

Transversal Section

50 N
Section 2

Date: 15/04/2005	
Author: JGD; TS	
Office:	
Drawing: BP	
Scale: 1:200	Projection: Non-Earth (meters)

2.5 0 2.5 5
metres



Geologic Legend

- Alteration Package
- Q
- Td
- Kg
- Ka
- Kq, Kt, Kqt
- MKfv
- MKcp
- MKrq
- DF
- DF1
- DF2
- DF3
- Dmi/DF
- Dmi
- Dum

HoleID

W (ppm) Histogram 0.01 mm/unit at 1:200

Be (ppm) Histogram 0.1 mm/unit at 1:200

Lithology

EOH

Structural Legend

- Emerald
- Fault
- Contact
- Vein
- Foliation

094540

True North Gems

Tsa Da Glisza Project

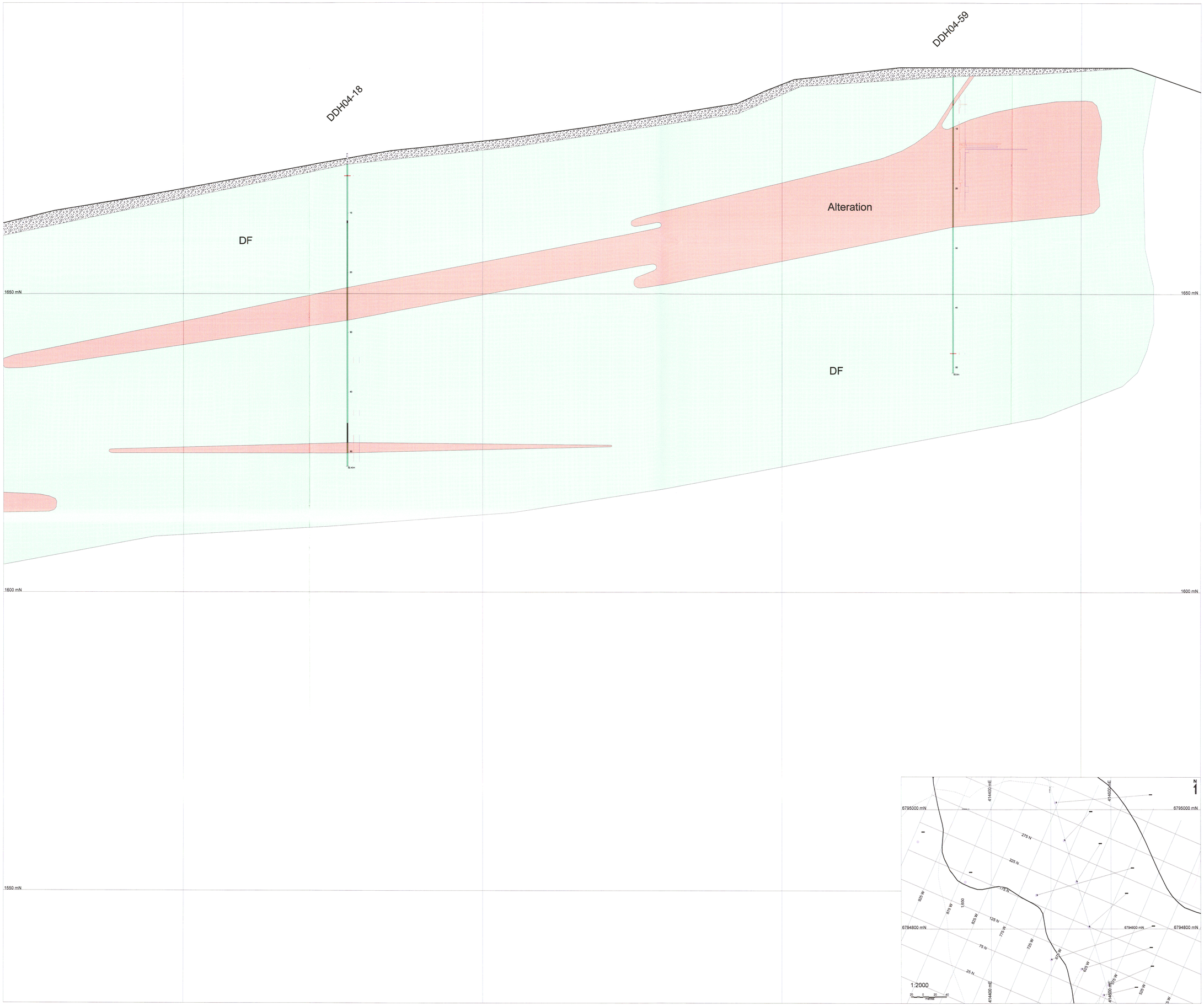
Transversal Section

50 N
Section 1

Date:15/04/2005	
Author: JGD, TS	
Office:	
Drawing: BP	
Scale: 1:200	Projection: Non-Earth (meters)

2.5 0 2.5 5
metres

APPENDIX 6 – DRILL SECTIONS LINE 100 N



Geologic Legend

- Alteration Package
- Q
- Td
- Kg
- Ka
- Kq, Kt, Kqt
- MKfv
- MKcp
- MKrq
- DF
- DF1
- DF2
- DF3
- Dmi/DF
- Dmi
- Dum

HoleID

W (ppm)
Histogram
0.01 mm/unit at 1:200

Be (ppm)
Histogram
0.1 mm/unit at 1:200

Lithology

EOH

Structural Legend

- Emerald
- Fault
- Contact
- Vein
- Foliation

094540

True North Gems

Tsa Da Glisza Project

Transversal Section

175 N
Section 3

Date: 15/04/2005	
Author: JGD, TS	
Office:	
Drawing: BP	
Scale: 1:200	Projection: Non-Earth (meters)

2.5 0 2.5 5
metres

DDH04-19

DDH04-18

1650 mN

1650 mN

DF

DF

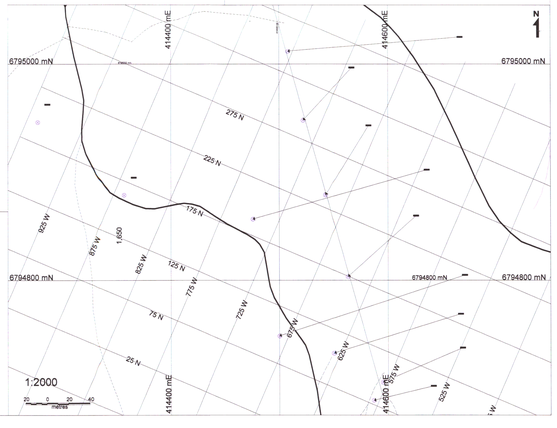
Alteration

1600 mN

1600 mN

Td

1550 mN



Geologic Legend

- Alteration Package
- Q
- Td
- Kg
- Ka
- Kq, Kt, Kqt
- MKfv
- MKcp
- MKrq
- DF
- DF1
- DF2
- DF3
- Dmi/DF
- Dmi
- Dum

HoleID

W (ppm) Histogram 0.01 mm/unit at 1:200

Bx (ppm) Histogram 0.1 mm/unit at 1:200

Lithology

EOH

Structural Legend

- Emerald
- Fault
- Contact
- Vein
- Foliation

094540

True North Gems

Tsa Da Glisza Project

Transversal Section

175 N
Section 2

Date: 15/04/2005	
Author: JGD, TS	
Office:	
Drawing: BP	
Scale: 1:200	Projection: Non-Earth (meters)

2.5 0 2.5 5
metres

DDH04-20

DDH04-19

1650 mN

1600 mN

1550 mN

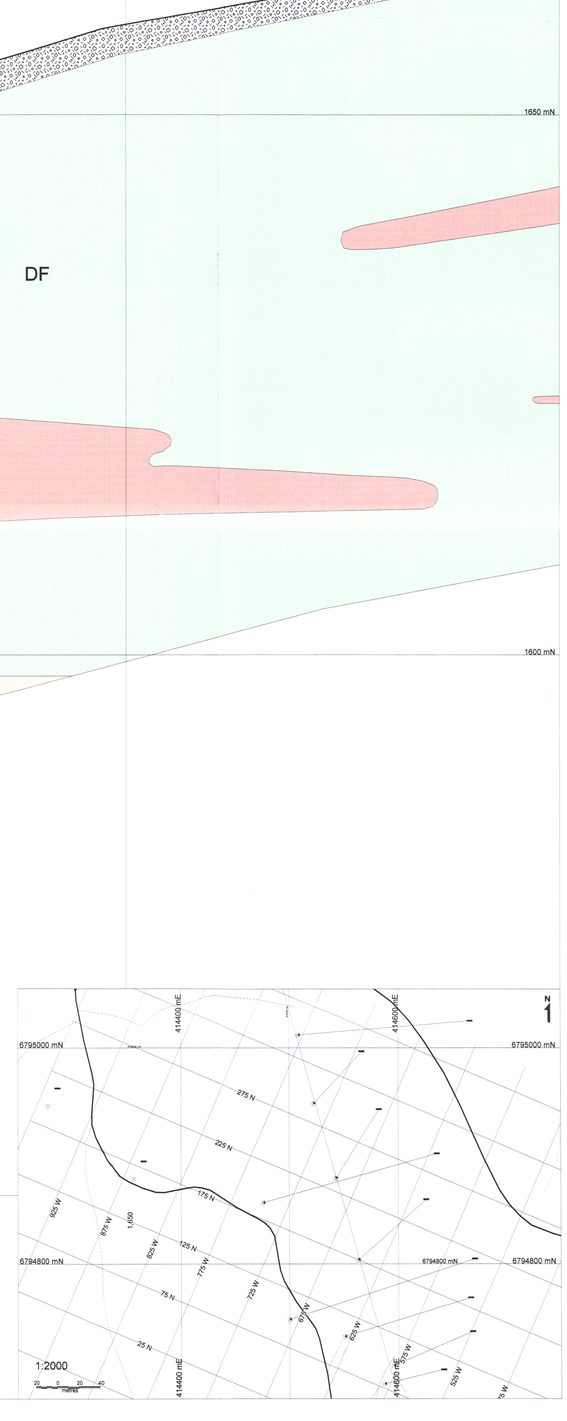
DF

Alteration

Td

DF

Dmi



Geologic Legend

Alteration Package

Q
Td
Kg
Ka
Kq, Kt, Kqt
MKfv
MKcp
MKrq
DF
DF1
DF2
DF3
Dmi/DF
Dmi
Dum

HoleID

W (ppm)
Histogram
0.01 mm/unit at 1:200

Be (ppm)
Histogram
0.1 mm/unit at 1:200

Lithology

EOH

Structural Legend

Emerald

Fault

Contact

Vein

Foliation

094540

True North Gems

Tsa Da Glisza Project

Transversal Section

175 N
Section 1

Date: 15/04/2005	
Author: JGD, TS	
Office:	
Drawing: BP	
Scale: 1:200	Projection: Non-Earth (meters)

2.5 0 2.5 5
metres

APPENDIX 8 – DRILL SECTIONS LINE 50 S

DDH04-32

DDH04-30

DDH04-31

DDH04-33

Alteration

DF

Alteration

DF

Alteration

Ka

1750 mN

1750 mN

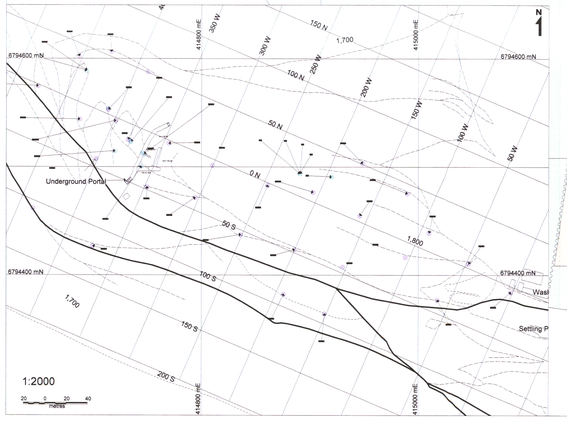
1700 mN

1700 mN

DF

Td

1650 mN



Geologic Legend

Alteration Package

Q
Td
Kg
Ka
Kq, Kt, Kqt
MKfv
MKcp
MKrq
DF
DF1
DF2
DF3
Dmi/DF
Dmi
Dum

HoleID

W (ppm)
Histogram
0.01 mm/unit at 1:200

Bx (ppm)
Histogram
0.1 mm/unit at 1:200

Lithology

EOH

Structural Legend

Emerald

Fault

Contact

Vein

Foliation

094540

True North Gems

Tsa Da Glisza Project

Transversal Section

50 S
Section 2

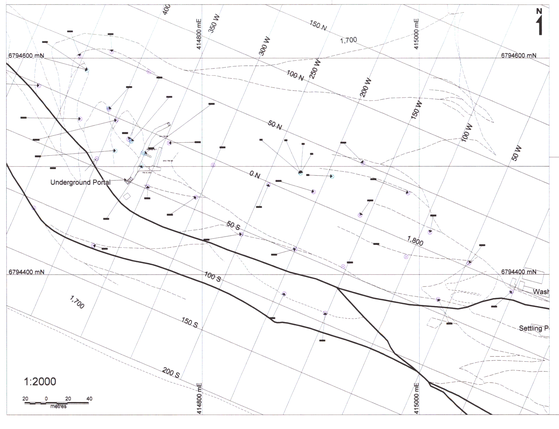
Date: 15/04/2005	
Author: JGD, TS	
Office:	
Drawing: BP	
Scale: 1:200	Projection: Non-Earth (meters)

2.5 0 2.5 5
metres

DDH04-40
DDH03-01
DDH03-02
DDH04-45
DDH04-46
DDH04-32

1750 mN
1700 mN
1650 mN

DF
Alteration
DF
Alteration
DF
Alteration



Geologic Legend

- Alteration Package
- Q
- Td
- Kg
- Ka
- Kq, Kt, Kqt
- MKfv
- MKcp
- MKrq
- DF
- DF1
- DF2
- DF3
- Dmi/DF
- Dmi
- Dum

HoleID
W (ppm) Histogram 0.01 mm/unit at 1:200
Bi (ppm) Histogram 0.1 mm/unit at 1:200
Lithology
EOH

Structural Legend

- Emerald
- Fault
- Contact
- Vein
- Foliation

094543

True North Gems

Tsa Da Glisza Project

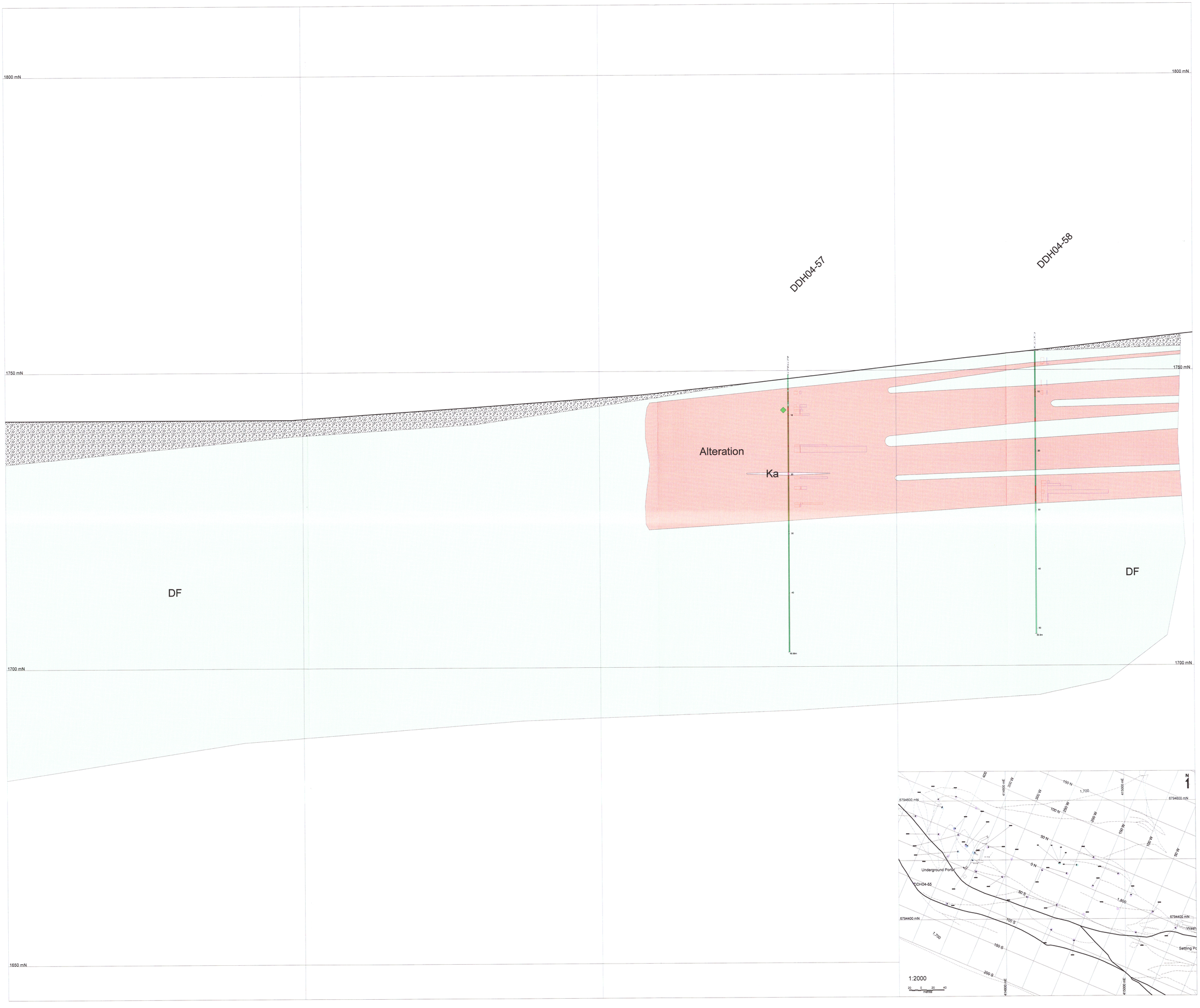
Transversal Section

50 S
Section 1

Date: 15/04/2008	
Author: JGD, TS	
Office:	
Drawing: BP	
Scale: 1:200	Projection: Non-Earth (meters)

2.5 0 2.5 5
metres

APPENDIX 9 – DRILL SECTIONS LINE 100 S



Geologic Legend

- Alteration Package
- Q
- Td
- Kg
- Ka
- Kq, Kt, Kqt
- MKfv
- MKcp
- MKrq
- DF
- DF1
- DF2
- DF3
- Dmi/DF
- Dmi
- Dum

HoleID
W (ppm) Histogram 0.01 mm/unit at 1:200
Be (ppm) Histogram 0.1 mm/unit at 1:200
Lithology
EOH

Structural Legend

- Emerald
- Fault
- Contact
- Vein
- Foliation

094540

True North Gems

	Tsa Da Glisza Project
Date:15/04/2005	**Transversal Section**
Author: JGD	**100 S Section 2**
Office:	
Drawing: BP	
Scale: 1:200	Projection: Non-Earth (meters)

2.5 0 2.5 5
metres

1800 mN

1750 mN

1700 mN

1650 mN

DDH04-55

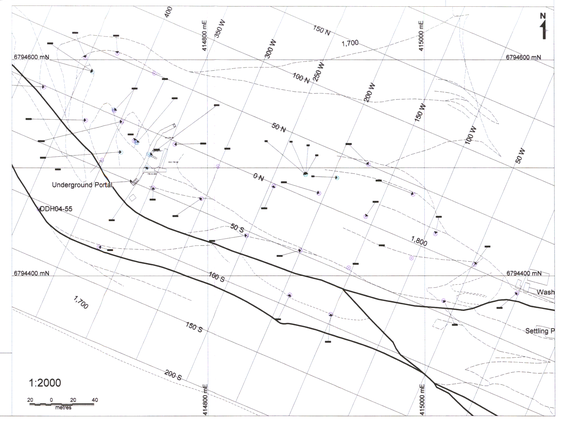
DDH04-56

Alteration

Alteration

DF

DF



Geologic Legend

Alteration Package

Q
Td
Kg
Ka
Kq, Kt, Kqt
MKfv
MKcp
MKrq
DF
DF1
DF2
DF3
Dmi/DF
Dmi
Dum

HoleID

W (ppm)
Histogram
0.01 mm/unit at 1:200

Be (ppm)
Histogram
0.1 mm/unit at 1:200

Lithology

EOH

Structural Legend

Emerald

Fault

Contact

Vein

Foliation

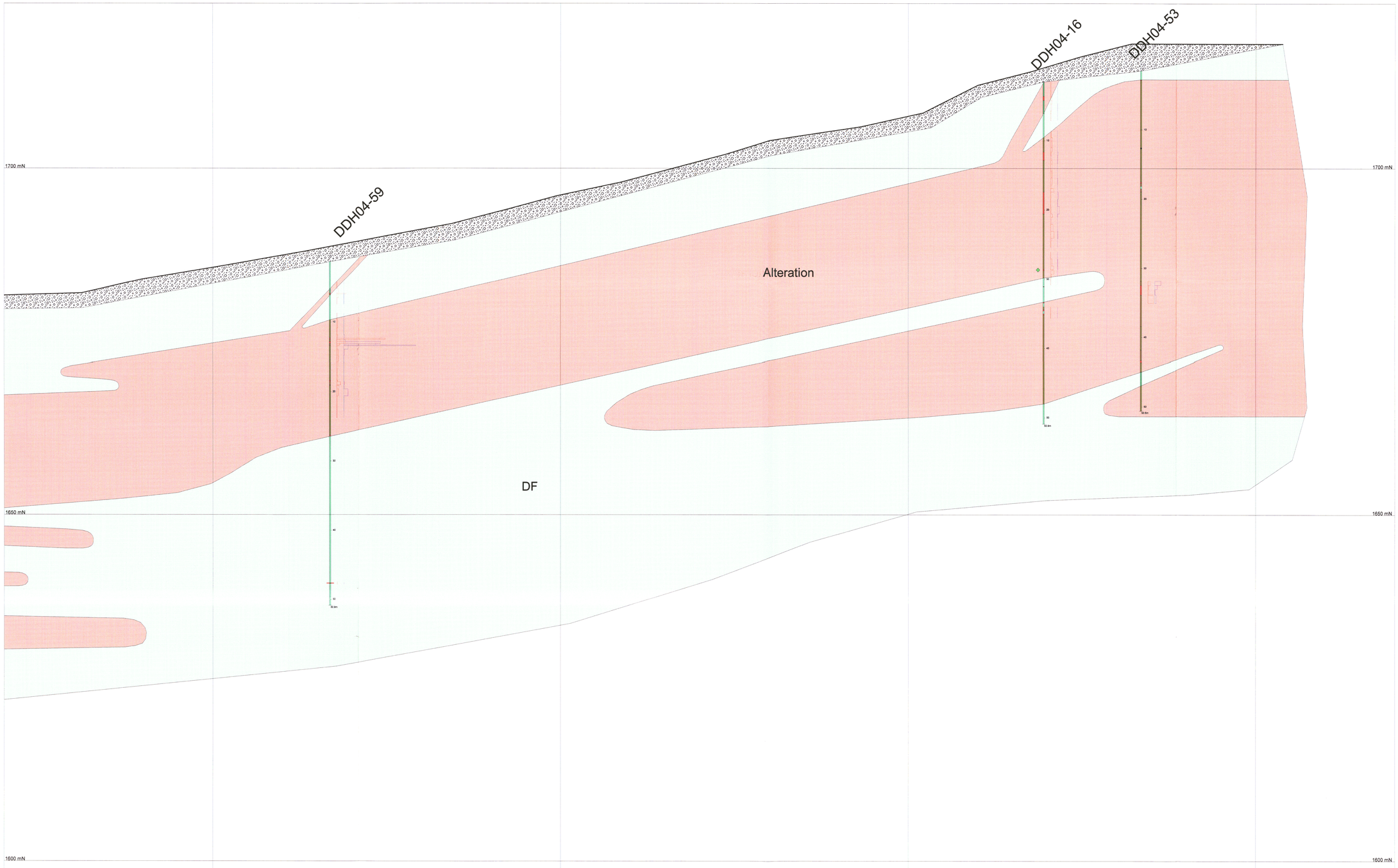
094540

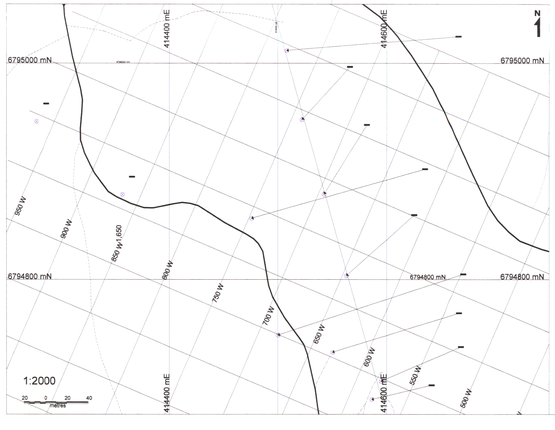
True North Gems

	Tsa Da Glisza Project
Date:15/04/2006	**Transversal Section**
Author: JGD, TS	**100 S**
Office:	**Section 1**
Drawing: .BP	
Scale: 1:200	Projection: Non-Earth (meters)

2.5 0 2.5 5
metres

APPENDIX 10 – DRILL SECTIONS WEST ZONE





Geologic Legend

- Alteration Package
- Q
- Td
- Kg
- Ka
- Kq, Kt, Kqt
- MKfv
- MKcp
- MKrq
- DF
- DF1
- DF2
- DF3
- Dmi/DF
- Dmi
- Dum

HoleID

W (ppm)
Histogram
0.01 mm/unit at 1:200

Be (ppm)
Histogram
0.1 mm/unit at 1:200

Lithology

EOH

Structural Legend

- Emerald
- Fault
- Contact
- Vein
- Foliation

094540

True North Gems

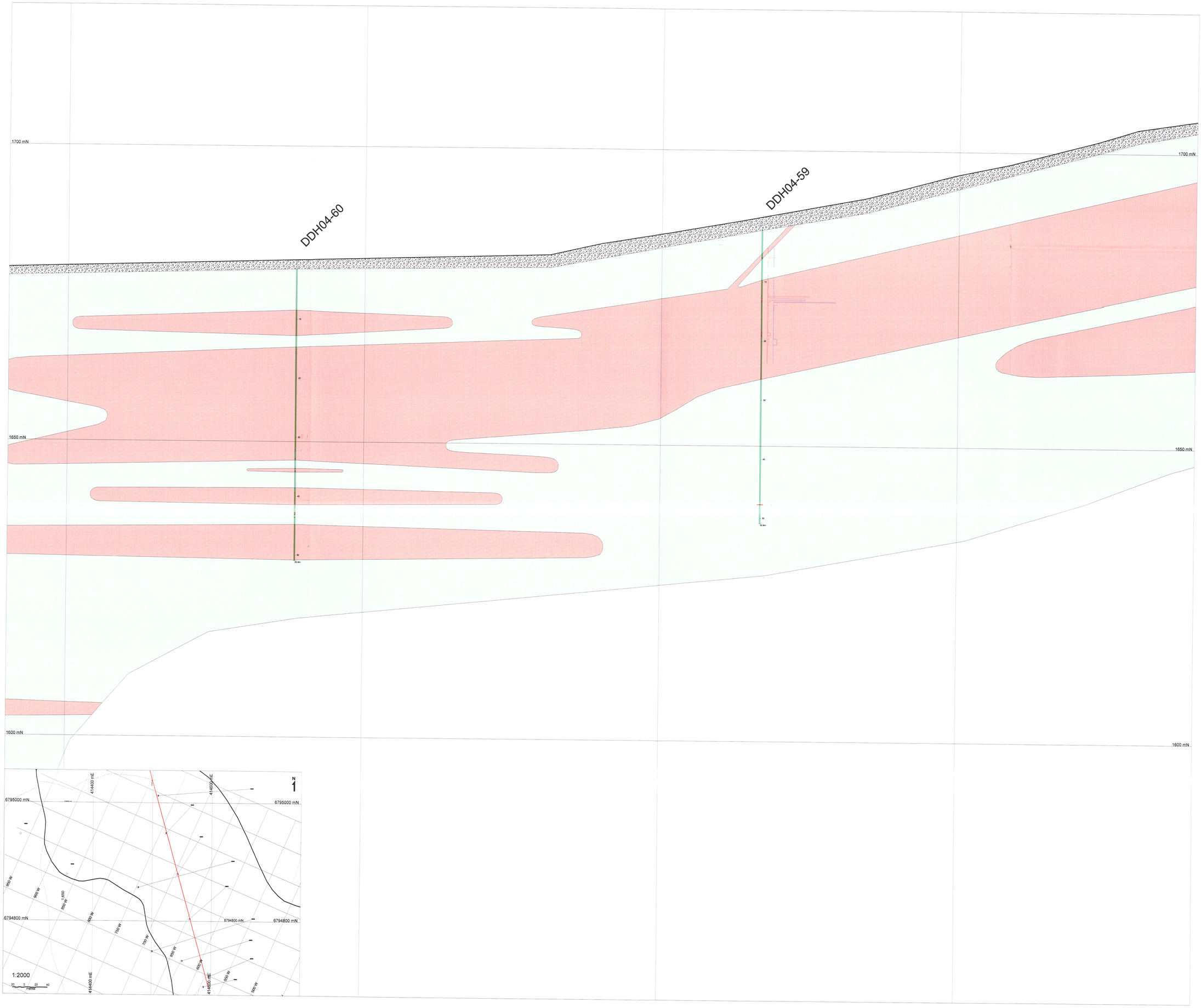
Tsa Da Glisza Project

Transversal Section

West Zone
Section 3

Date: 15/04/2005	
Author: JGD, TS	
Office:	
Drawing: BP	
Scale: 1:200	Projection: Non-Earth (meters)

2.5 0 2.5 5
metres



Geologic Legend

- Alteration Package
- Q
- Td
- Kg
- Ka
- Kq, Kt, Kqt
- MKfv
- MKcp
- MKrq
- DF
- DF1
- DF2
- DF3
- Dmi/DF
- Dmi
- Dum

HoleID

W (ppm)
Histogram
0.01 mm/unit at 1:200

Be (ppm)
Histogram
0.1 mm/unit at 1:200

Lithology

EOH

Structural Legend

- Emerald
- Fault
- Contact
- Vein
- Foliation

094540

True North Gems

Tsa Da Glisza Project

Transversal Section

West Zone
Section 2

Date: 15/04/2005	
Author: JGD, TS	
Office:	
Drawing: BP	
Scale: 1:200	Projection: Non-Earth (meters)

2.5 0 2.5 5
metres

DDH04-61

DDH04-21

DDH04-60

1700 mN

1650 mN

1600 mN

Geologic Legend

- Alteration Package
- Q
- Td
- Kg
- Ka
- Kq, Kt, Kqt
- MKfv
- MKcp
- MKrq
- DF
- DF1
- DF2
- DF3
- Dmi/DF
- Dmi
- Dum

HoleID

W (ppm) Histogram 0.01 mm/unit at 1:200

Be (ppm) Histogram 0.1 mm/unit at 1:200

Lithology

EOH

Structural Legend

- Emerald
- Fault
- Contact
- Vein
- Foliation

094540

True North Gems

Tsa Da Glisza Project

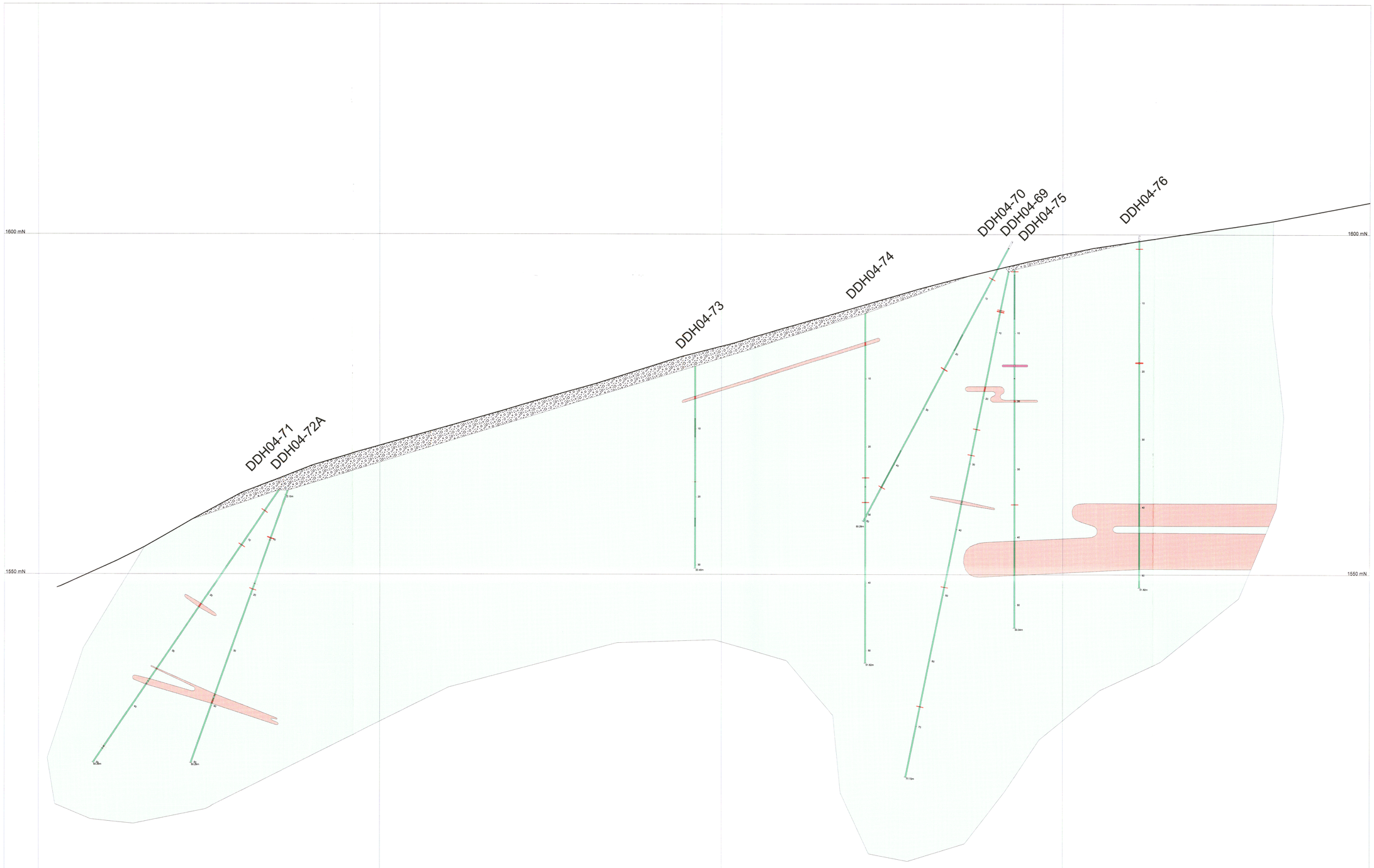
Transversal Section

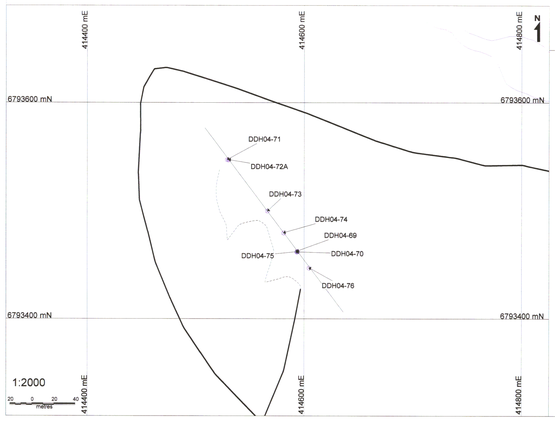
West Zone
Section 1

Date: 15/04/2005	
Author: JGD, TS	
Office:	
Drawing: BP	
Scale: 1:200	Projection: Non-Earth (meters)

2.5 0 2.5 5
metres

APPENDIX 11 – DRILL SECTIONS SHADOW ZONE





Geologic Legend

Alteration Package

HoleID

W (ppm)
Histogram
0.01 mm/unit at 1:200

Be (ppm)
Histogram
0.1 mm/unit at 1:200

Lithology

EOH

- Q
- Td
- Kg
- Ka
- Kq, Kt, Kqt
- MKlv
- MKcp
- MKrq
- DF
- DF1
- DF2
- DF3
- Dmi/DF
- Dmi
- Dum

Structural Legend

- Emerald
- Fault
- Contact
- Vein
- Foliation

094540

True North Gems

Tsa Da Glisza Project

Transversal Section

HOWDY RIDGE

Date:15/04/2005	
Author: JGD, TS	
Office:	
Drawing: BP	
Scale: 1:200	Projection: Non-Earth (meters)

2.5 0 2.5 5
metres