

MAR 20040018: BUFFALO HILLS

Received date: Nov 17, 2004

Public release date: Nov 24, 2005

DISCLAIMER

By accessing and using the Alberta Energy website to download or otherwise obtain a scanned mineral assessment report, you ("User") agree to be bound by the following terms and conditions:

- a) Each scanned mineral assessment report that is downloaded or otherwise obtained from Alberta Energy is provided "AS IS", with no warranties or representations of any kind whatsoever from Her Majesty the Queen in Right of Alberta, as represented by the Minister of Energy ("Minister"), expressed or implied, including, but not limited to, no warranties or other representations from the Minister, regarding the content, accuracy, reliability, use or results from the use of or the integrity, completeness, quality or legibility of each such scanned mineral assessment report;
- b) To the fullest extent permitted by applicable laws, the Minister hereby expressly disclaims, and is released from, liability and responsibility for all warranties and conditions, expressed or implied, in relation to each scanned mineral assessment report shown or displayed on the Alberta Energy website including but not limited to warranties as to the satisfactory quality of or the fitness of the scanned mineral assessment report for a particular purpose and warranties as to the non-infringement or other non-violation of the proprietary rights held by any third party in respect of the scanned mineral assessment report;
- c) To the fullest extent permitted by applicable law, the Minister, and the Minister's employees and agents, exclude and disclaim liability to the User for losses and damages of whatsoever nature and howsoever arising including, without limitation, any direct, indirect, special, consequential, punitive or incidental damages, loss of use, loss of data, loss caused by a virus, loss of income or profit, claims of third parties, even if Alberta Energy have been advised of the possibility of such damages or losses, arising out of or in connection with the use of the Alberta Energy website, including the accessing or downloading of the scanned mineral assessment report and the use for any purpose of the scanned mineral assessment report so downloaded or retrieved.
- d) User agrees to indemnify and hold harmless the Minister, and the Minister's employees and agents against and from any and all third party claims, losses, liabilities, demands, actions or proceedings related to the downloading, distribution, transmissions, storage, redistribution, reproduction or exploitation of each scanned mineral assessment report obtained by the User from Alberta Energy.

NOV 17 2004
2004 0018

Assessment Report
for the:
Buffalo Hills Property **2004**

Volume: 1 of 1

**ASSESSMENT REPORT
&
APPENDICES**

report submitted to:
COAL AND MINERAL DEVELOPMENT BRANCH
Ministry of Energy
7th Floor, North Petroleum Plaza
9945 – 108th Street
Edmonton, Alberta
T5K 2G6

prepared by:
ASHTON DIAMONDS (CANADA) INC.
Unit 116 – 980 West 1st Street
North Vancouver, British Columbia
V7P 3N4

Jeff Ward, Project Manager
David Willis, Land Administrator

Document Date: November 5, 2004

0.1 ABSTRACT

This report is being submitted to satisfy the seventh and eighth year assessment work requirements outlined in section 14(1) of the Metallic and Industrial Mineral Regulations. During the past two years Ashton Diamonds (Canada) Inc., EnCana Corporation and Pure Gold Minerals (Alberta) Inc. have incurred exploration expenditures totaling \$2,387,333.21 with the intention of finding diamondiferous kimberlite pipes. All exploration activities took place on 58 contiguous Metallic and Industrial Mineral Permits (MIMPs) in the Buffalo Head Hills Region of Alberta. Collectively these 58 MIMPs are referred to as the Buffalo Hills Property. Work being submitted in this report includes; 44 heavy mineral samples, one airborne geophysical surveys, 38 ground geophysical surveys, 8 diamond drill holes. This work resulted in the discovery of diamondiferous kimberlite pipes K296 and K300.

COMPANY:	Ashton Diamonds (Canada) Inc.
MIMP:	Buffalo Hills Property: 9396060030 9396060035 to 9396060069 9396060071 to 9396060077 9396060079 to 9396060085 9396080086 to 9396080090 9397010063 9397030018 9397030022
Assessment Period:	July 1, 2002 to September 30, 2004
NTS:	84B10 to 84B15 -114. 7995315 84C09, 84C16 -116. 2707103 84F01, 84F08 84G02 to 84G06 56. 5954303 57. 2719839
Administrative Location:	Northwest Corporate Region Lesser Slave Corporate Area Lakeshore District
Geographic Region:	Buffalo Head Hills
Legal Location:	Township 88 to Township 95 Range 6 to Range 14 W5M

0.2 TABLE OF CONTENTS

		<u>page</u>
0.1	ABSTRACT	i
0.2	TABLE OF CONTENTS	ii
0.3	LIST OF FIGURES	iii
0.4	LIST OF TABLES	iv
0.5	LIST OF APPENDICES	v
1.0	INTRODUCTION	1
2.0	PROPERTY DESCRIPTION	1
3.0	PHYSIOGRAPHY	1
4.0	PROPERTY GEOLOGY	1
	4.1 Surficial Geology	1
	4.2 Bedrock Geology	5
	4.3 Basement and Structural Geology	5
5.0	EXPLORATION WORK	5
	5.1 Overburden Drilling and Heavy Mineral Sampling	5
	5.1.1 Kimberlite Indicator Mineral Analysis	8
	5.2 Airborne Geophysics	8
	5.3 Ground Geophysics	8, 9
	5.3.1 Magnetism	9, 10
	5.3.2 Gravity	10
	5.3.3 Electromagnetics	10, 11
	5.4 Target Drilling and Diamond Analysis	11
	5.4.1 Microdiamond Analysis	11, 12
6.0	CONCLUSION	12
7.0	REFERENCES	13
8.0	CERTIFICATES OF QUALIFICATION	14
	8.1 CERTIFICATE OF QUALIFICATION – JEFF WARD	14
	8.2 Certificate of Qualification – David Willis	15

0.3 LIST OF FIGURES

<u>Figure</u>		<u>page</u>
1.	Property Location	2
2.	Surficial Geology	3
3.	Drift Thickness	4
4.	Bedrock Geology	6
5.	Basement and Structural Geology	7

0.4 LIST OF TABLES

<u>Table</u>		<u>page</u>
1.	Ground Geophysical Surveys	9

0.5 LIST OF APPENDICES

Appendix

- A Expenditure Allocation
 - Statement of Expenditure
 - Notarized Statement of Expenditure
 - Assessment Strategy Map
 - Permit Maintenance Table
 - Notice of Designation

- B Heavy Mineral Sampling
 - Vibrasonic Drill Hole Location Map
 - Sample Location Table
 - Sample Results Table
 - Sample Results Glossary
 - Drill Hole Summary Logs

- C Geophysics
 - Airborne and Ground Survey Location Map
 - Airborne Survey Table
 - Magnetic Survey Table
 - Gravity Survey Table
 - Electromagnetic Survey Table
 - CD-Rom (Airborne& Ground Geophysical Maps)

- D Drilling
 - Drill Hole Location Map
 - Drill Hole Summary Logs
 - Drill Hole Cross Sections
 - Microdiamond Results

1.0 INTRODUCTION

This report summarizes work done on the Buffalo Hills Property that is being applied to satisfy the seventh and eighth year assessment work requirements outlined in section 14(1) of the Metallic and Industrial Mineral Regulations. The report is divided into 10 sections and five appendices. The report summarizes property geology and exploration work performed while the appendices are dedicated to mineral tenure, and exploration data. A CD-Rom is enclosed containing 128 geophysical maps in “. PDF” format.

2.0 PROPERTY DESCRIPTION & LOCATION

The Buffalo Hills Property consists of 58 contiguous Metallic and Industrial Mineral Permits (MIMPs) totaling 491,079.00 hectares (Figure 1). The permits form a square approximately eight permits east to west by eight permits north to south. Permits are generally one township in size (9216 hectares) and can be described by the ATS system as occurring within townships 88 to 95 and ranges 6 to 14. The western boundary of the property is located approximately 89 kilometers northeast of Peace River and the southern boundary is located approximately 157 kilometers north of Slave Lake. The closest community to the property is Red Earth Creek located just outside the southeastern property boundary.

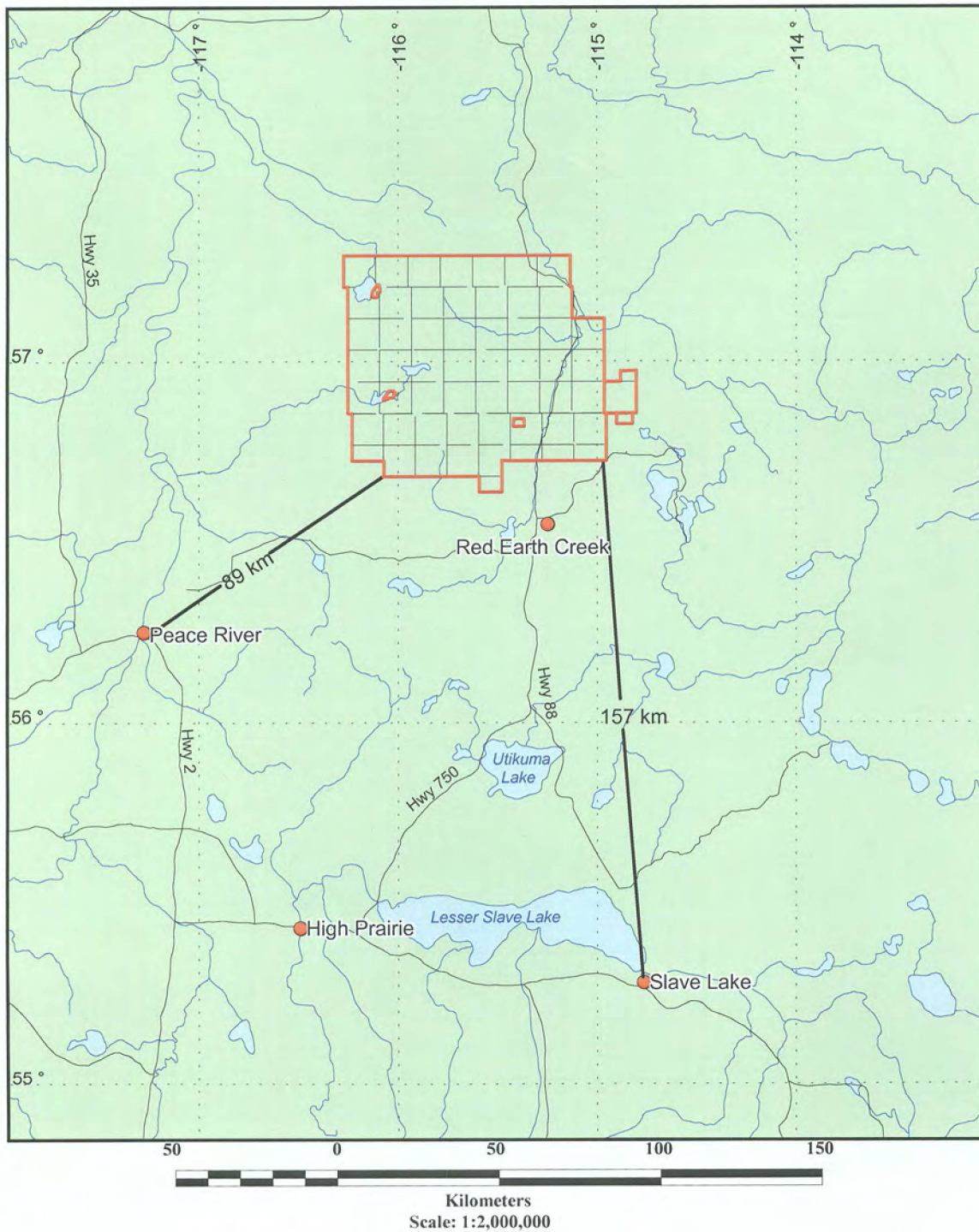
3.0 PHYSIOGRAPHY

The property is characterized by a striking change in relief from the Buffalo Head Hills on the western half of the property to the Loon River Lowlands on the eastern half. The Buffalo Head Hills have a maximum elevation of 820 metres above mean sea level and are covered by a northern boreal forest punctuated by streams and creeks draining into the Loon River Lowlands. The lowlands occur at an elevation of 487 metres above mean sea level and are marked by vast tracts of muskeg. Seismic lines, access roads and clear cuts are common features throughout the property.

4.0 PROPERTY GEOLOGY

4.1 Surficial Geology

The most recent glacial deposition occurred during the Wisconsin retreat of the Laurentian ice sheet. Two distinct deposit types dominate the property. The first, a fine-grained glaciolacustrine sediment of silt and clay dominates the eastern half of the property while the second, a glacial till blanket, dominates the western half (Figure 2). Drift thickness varies considerably across the property (Figure 3). In general the thickest depositional sequences (>150 meters) correspond with the glaciolacustrine sediment on the eastern half of the property. The western half is much more variable with drift ranging between 15 and 150 meters. The recorded ice flow directions vary throughout the properties (Figure 3). In general, regional ice flow movement was to the southwest and southeast, however evidence of local movement to the south and west has been noted.



Legend

- Buffalo Hills
- Claims

Ashton Mining of Canada Inc.



Oct. 14, 2004

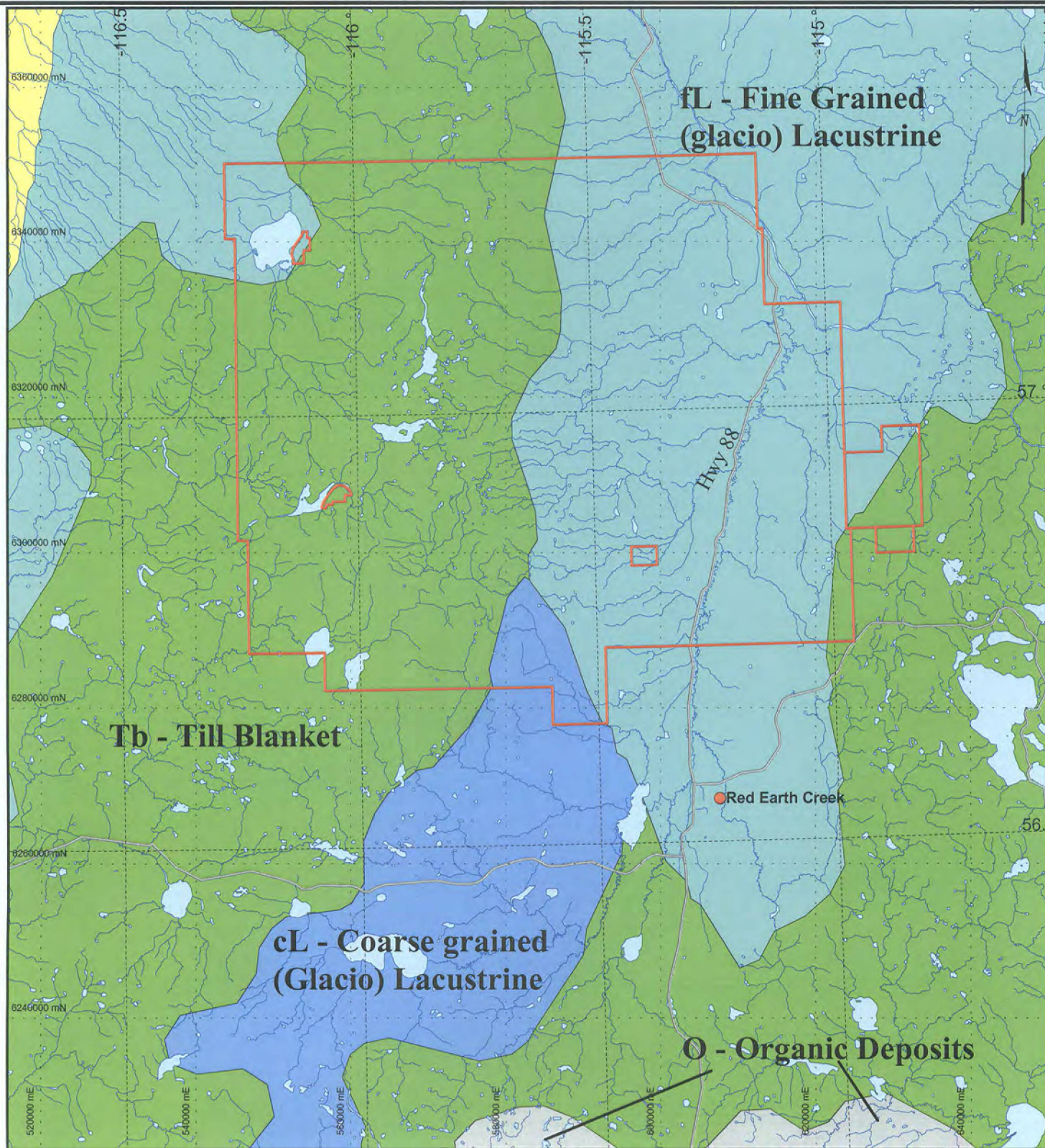
Author: CC

Proj: UTM12
NAD27

J:\4Maps\ABI\Property\BH_prop.wor

Figure 1

**Buffalo Hills, Alberta
Property Location**





Map Location



10 0 10 20
Kilometers
Scale: 1:700,000

Legend

 Property Outline
 Road

Citation:
R. J. Fulton
1996: Surficial materials of Canada;
Geological Survey of Canada, Map 1880A.

Ashton Mining of Canada Inc.


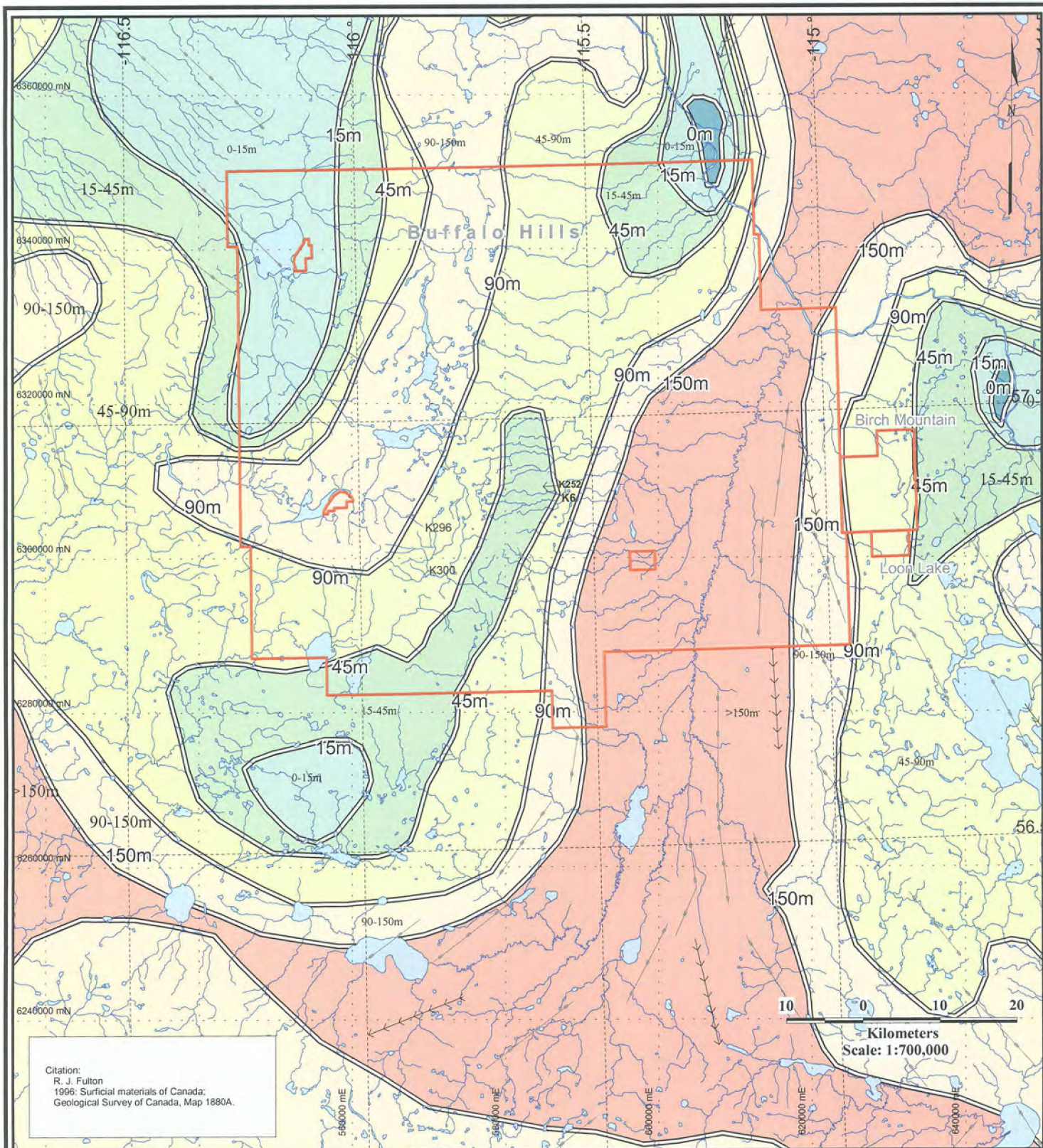

Oct. 15, 2004
Author: CC
Proj: UTM12
NAD27

Figure 2

**Buffalo Hills Area,
Alberta
Surficial Geology**

J:\Maps\AB\Geology\Surficial\



Drift Legend

- 0m
- 0 - 15m
- 15 - 45m
- 45 - 90m
- 90 - 150m
- > 150m
- Drift Contours
- Property Boundary
- General Ice Flow (Known)
- General Ice Flow (Unknown)

Ashton Mining of Canada Inc.

Oct. 15, 2004
Author: CC
Proj: UTM12
NAD27

Figure 3

**Buffalo Head Hills Area
Alberta
Drift Thickness**

J:\MMaps\AB\Geology\Drift Thickness\Drift thickness_assessment wor

4.2 Bedrock Geology

Three Cretaceous sedimentary formations underlie the property (Figure 4): Upper Cretaceous Smokey Group (uKs), Upper Cretaceous Dunvegan Formation (uKd) and Middle Cretaceous Shaftesbury Formation (mKsh). The Smokey Group forms the top of the Buffalo Head Hills. Interpreted as a marine foredeep, the Smokey Group is a dark grey shale that is sideritic to calcareous in composition. Underlying the Smokey Group is the older Dunvegan Formation, which is a marine unit of conglomerate, sandstone, siltstone, and shale that is locally expressed in the geology. This is correlated regionally with the Trevor Formation, a southwesterly-derived clastic wedge of interbedded calcareous and glauconitic sandstone and mudstone, bentonitic shale and local ironstone lenses. The oldest unit, the Shaftesbury Formation, underlies the central and the northwestern portions of the property group. Interpreted as a foredeep clastic wedge, it is both marine and non-marine in origin, consisting of deltaic fine-grained quartzose sandstone, a dark gray fossiliferous silty shale and laminated siltstone. Rare bedrock exposures have been observed near the top of the Buffalo Head Hills and in pits on the southwestern Buffalo Hills Property.

4.3 Basement and Structural Geology

The property is situated on the Early Proterozoic Buffalo Head Terrain. The Peace River Arch is a structural feature trending NE across the southern half of the property. The Arch, characterized by uplift and subsidence, was active in the Late Proterozoic to the Late Cretaceous (Figure 5).

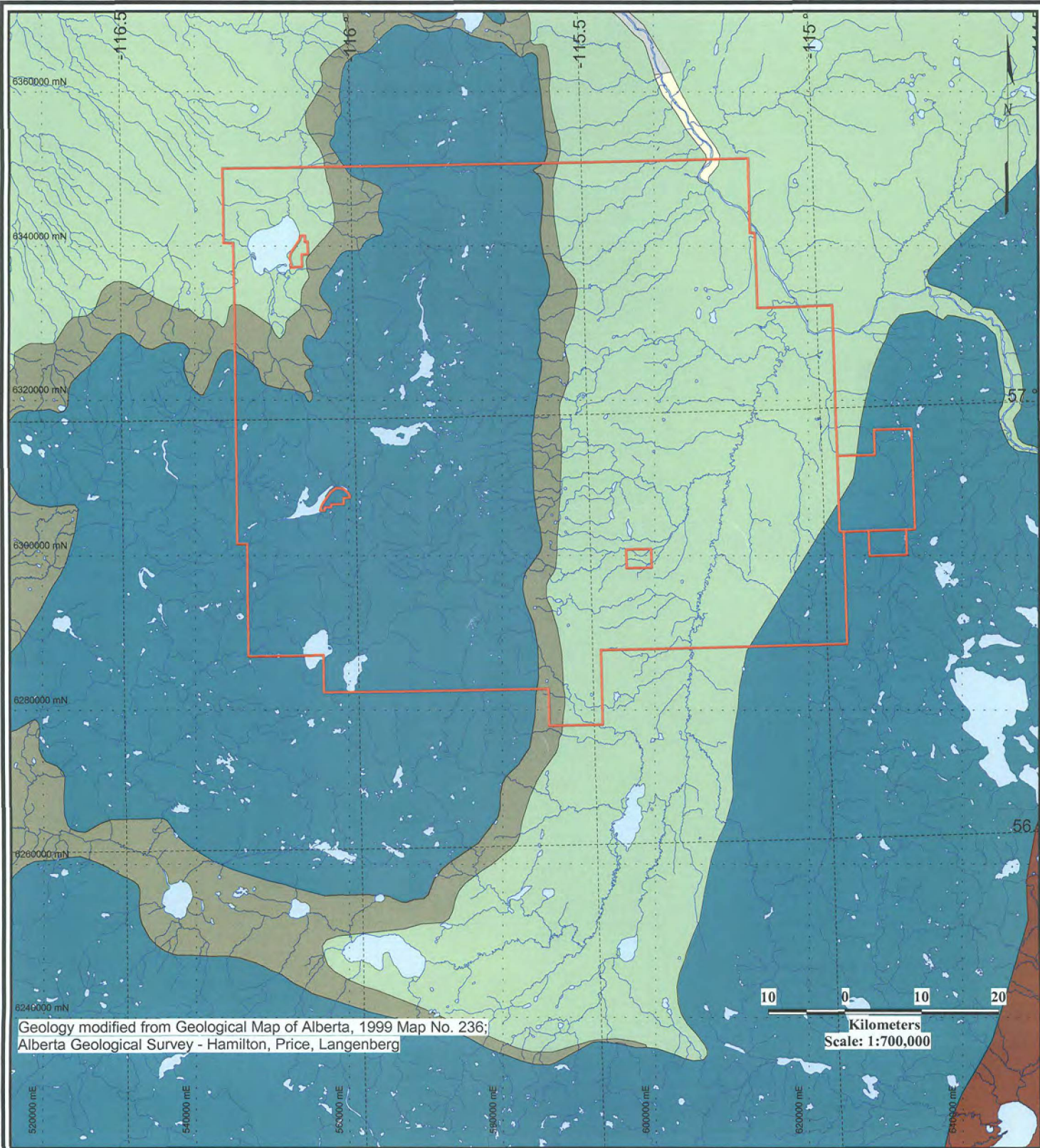
5.0 EXPLORATION WORK

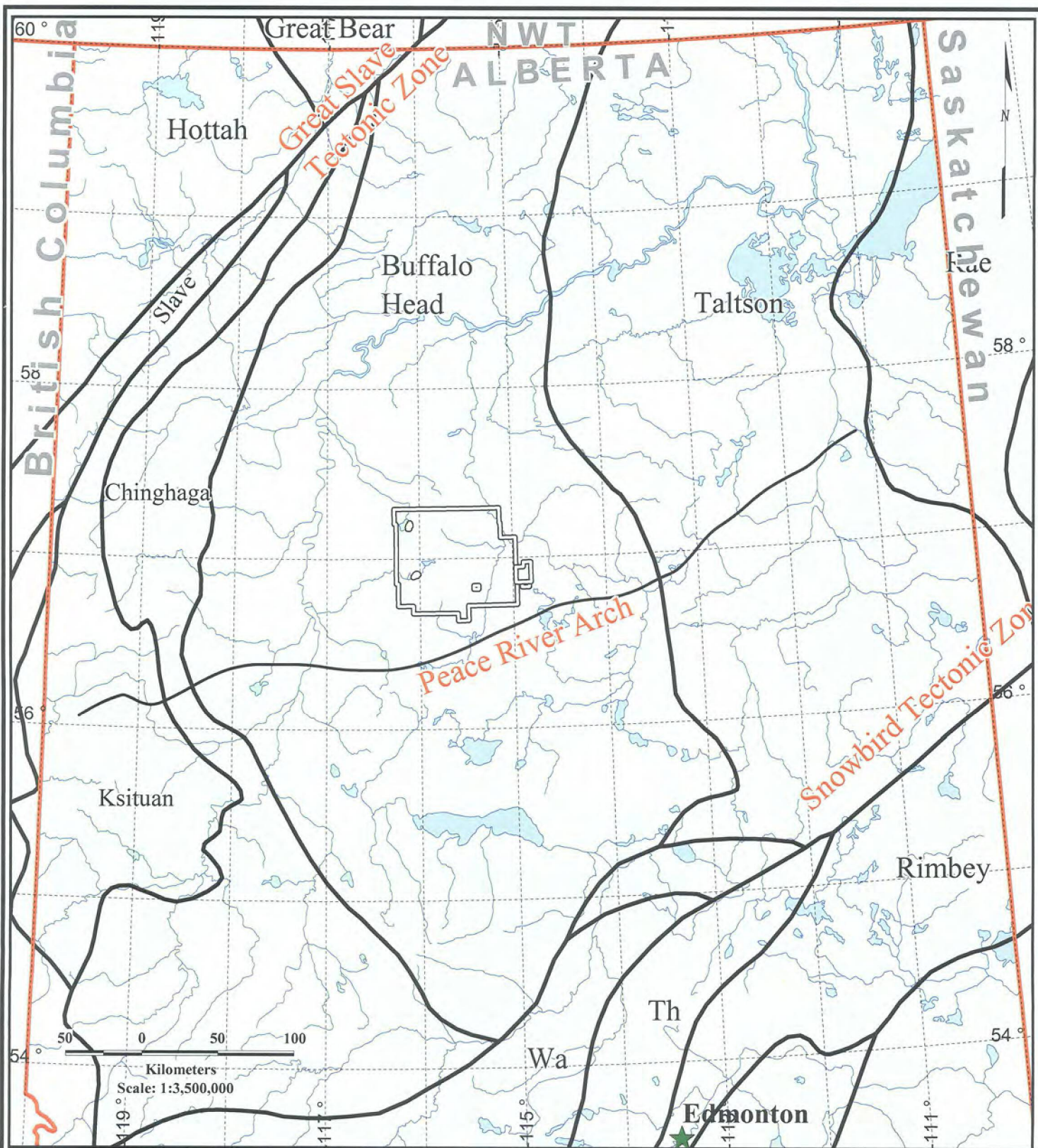
The following sections describe exploration work that is being applied to satisfy the assessment filing requirements on the Buffalo Hills property. All exploration expenditures are outlined in Appendix "A" along with a notarized statement of expenditure, a permit maintenance map, a permit maintenance table and notice of designation forms

5.1 Overburden Drilling and Heavy Mineral Sampling

In January of 2003, a 28-hole vibra-sonic drill program was conducted to sample glacial overburden. A total of 44 heavy mineral samples were collected from the glacial media intersected during drilling. The program was undertaken to sample glacial overburden up-ice of anomalous indicator mineral sample AL01-0236 that returned 479 indicator minerals and was reported in Ashton's 2002 assessment report on the Buffalo Hills Property.



Sonitec Drilling Ltd of Melfort Saskatchewan was contracted to perform NQ sized overburden drilling. C. Stewart Contracting of High Prairie Alberta was contracted for site preparation. The program started on January 18, 2003 and was complete by January 25, 2003. Holes ranged in depth from 5.5 to 17.7 metres and the total combined depth for all holes was 261 metres. Drilled holes had one to three samples taken at each location and each sample was representative of a single lithology intersected over the length of the hole. Samples were removed from the core tube and placed in a core box for logging and determination of overburden sample intervals.





Recommended Citation:
 Modified from Hoffman, 1989
 Western Canada Sedimentary Basin, Tectonic domains;
 Alberta Geological Survey, Figure 4.1, Scale 1 : 5 000 000

Legend

-  Tectonic Domain Boundary
-  Ashton Land Holdings

Ashton Mining of Canada Inc.



 Oct. 15, 2004
 Author: CC
 Proj: UTM12
 NAD27

Figure 5

Northern Alberta
 Basement Terranes

J:\4Maps\ABI\Geology\Tectonics\ABGeology\TectonicDomains.WOR

Following this, samples were placed into 20 litre plastic pails and assigned a unique identification number. Samples were transported to Ashton's laboratory in North Vancouver, British Columbia where they were processed and visually observed for kimberlite indicator minerals.

5.1.1 Kimberlite Indicator Mineral Analysis

Wilfley shaking table and sieving to produce an initial concentrate weighing about 500 grams in the 0.4 to 1.3 millimetre size range reduces glacial overburden samples. This fraction is further reduced by heavy liquid separation, resulting in a concentrate between 10 and 30 grams of heavy minerals. Each sample is then carefully examined under a binocular microscope by a trained mineral observer and the kimberlitic indicator minerals are isolated. These indicator grains are confirmed through a second pass by a mineralogist who examines for surface abrasions indicative of transportation distance, determines the final count and archives the concentrate for additional testing as warranted. Strict quality control testing measures are implemented at all stages of processing and observation to maximize the recovery of all kimberlite indicator minerals.

Six types of kimberlite indicator minerals were observed in concentrates derived from the overburden sampling program. Kimberlite indicator minerals were present in 40 of the 44 samples with sample VSH-03-08 having the highest number of indicator minerals at 148 grains.

A drill hole location map, sample location/interval table, sample results table and drill logs are contained in Appendix B.

5.2 Airborne Geophysics

Fugro Airborne Surveys of Toronto, operating out of Peace River Alberta, flew a GEOTEM time-domain electromagnetic and magnetic survey over the western and northern portion of the Buffalo Hills Property between September 25, 2003 and November 2, 2003. The survey totaled of 10,536 line kilometers. Traverse lines were spaced at 200 metres oriented north-south. Tie lines were spaced every 2000 metres oriented east-west. J. Silic & Associates was contracted to provide in the field quality control of the data collected, data processing and interpretation of targets for follow-up. The survey area is shown on the survey location map located in Appendix C. Geophysical data and a Fugro Logistics report in digital format are included on a CD-Rom also provided in Appendix C.

Airborne geophysical equipment was configured in a Casa 212 aircraft. Equipment specifications are as follows:

Electromagnetic system: GEOTEM 20 channel Multicoil System

Transmitter: Vertical axis loop mounted on aircraft of 231 m²

Nominal height above ground: 120 m

Receiver : Multicoil system (x, y and z) with a final recording rate of 4 samples/second, for the recording of 20 channels of x, y and z-coil data. The nominal height above ground is ~70 m, placed ~145 m behind the centre of the transmitter loop.

Base frequency: 30 Hz

Magnetometer: Scintrex Cs-2 single cell cesium vapour, towed-bird installation, sensitivity = 0.01 nT, sampling rate = 0.1 s, ambient range 20,000 to 100,000 nT. The general noise envelope was kept below 0.5 nT.

Nominal sensor height above ground: ~73 m

Survey Speed: 125 knots

5.3 Ground Geophysics

During the assessment period, Ashton completed a total of 38 ground geophysical surveys on the Buffalo Hills Property using three different geophysical methods: magnetics, gravity and electromagnetics. The work was done as follow up of previous airborne surveys and as a continuation of target evaluation.

Surveys were usually based out of Red Earth Creek or Ashton's exploration camp located central to the property. Work was carried out using geophysical contractors, Ashton's in-house geophysical staff or a combination of the two. Helicopters were required to access most of the survey sites and the programs operated in both the summer and winter work seasons. When required, baselines were marked with wooden pickets at 25 metre intervals. Traverse lines were flagged and double-flagged at every 25 or 50 metre station as needed. Location coordinates were marked and recorded at each station using NAD27 UTM Zone 11 (Canada Mean) coordinates. No line cutting was done on the grids.

All ground survey maps are provided in digital format on a CD-Rom located in Appendix C. Table 1.0 provides a summary of the surveys by type.

Table 1.0
Ground Geophysical Summary

Survey Type	Surveys	Line Km
Magnetics	6	46.545
Gravity	8	35.35
Electromagnetics	24	77.5
<i>Totals:</i>	38	159.395

5.3.1 Magnetics

Between October 2002 and January 2004, Ashton's geophysical personnel completed six ground magnetic surveys. The crew consisted of up to 4 people at any one time. The base of operations was Ashton's camp in 2002 and Red Earth Creek in 2004.

Ground grids were established using handheld Garmin or Trimble GPS units. Grids were laid out in a north south or east west pattern depending on anomaly size shape and ease of access. The baseline was always 90 degrees to the traverse lines. Nominal line spacing was 50 metres with some higher priority targets receiving 25 metre line spacing.

Survey equipment consisted of two GEM Systems GSM 19 magnetometers. The field unit was operated in "walk mode" recording data every two seconds. The second magnetometer was

operated as a base station used for removal of diurnal variation in the field data. Data was reviewed for quality and processed in the field by Ashton personnel.

5.3.2 Gravity

Between January 2003 and August 2004 a total of eight targets were evaluated using gravity surveys. MEG Systems of Calgary Alberta was contracted to perform the work. The two man crew was based out of Ashton's camp in 2003 and the town of Red Earth Creek for the 2004 surveys.

Surveying consisted of either grid coverage or two lines perpendicular centered over the target. Two targets BH280 and BH300 were surveyed with grids of 100 metre spaced lines oriented north-south. The remaining six anomalies were surveyed using two perpendicular lines, one north-south and the other east-west. For all surveys, gravity measurements were taken at 50 metre intervals.

Equipment utilized included a Lacoste & Romberg Model "G" gravity meter and an electrostatic chain level for survey elevations.

The station to station elevations were acquired using a GDD Instruments chain level. Elevations are not absolute but relative to a base value chosen at each target. Gravity data are in milligals (mgals) and are corrected for all standard gravity corrections. Bouguer gravity values are calculated using densities in the range of 2.0 to 2.2 g/cc. For instrument drift calculations a base point was used on each surveyed target for completing survey loops. All data was checked for quality control in the field by MEG personnel and remotely by industry consultants or Ashton personnel.

5.3.3 Electromagnetics

Between October 2002 and February 2004 Crone Geophysics & Exploration Ltd. of Mississauga Ontario was contracted to perform ground TDEM (time-domain electromagnetic) surveys over selected targets. Crone supplied one operator and the TDEM equipment. Ashton supplied the remainder of the crew as needed up to three personnel. A total of 24 targets were surveyed in this period. Survey crews were based out of Ashton's camp in 2002 and the town of Red Earth Creek for the 2004 surveys.

Survey configuration utilized two different setups depending on the size of the anomaly and topographic considerations. The first setup consists of a transmitting loop centered over the target with orthogonal survey lines out from the centre of the loop. The second setup consisted of a transmitting loop offset from the target and survey lines running away from a loop edge at 90 degrees to the edge.

Instrumentation consisted of a Crone PEM 20 channel digital receiver, a vertical component receiver coil, a 2.4 kW transmitter, a crystal clock to synchronize the transmitter, coated 12 gauge loop wire, a motor generator and many miscellaneous items and spares. The receiver was

backpack mounted and the coil was attached to a tripod. Data units are nT/s in data files generated by the equipment (PEM files) and are then converted to nV/Am² in TEM formatted files. Data collected by the Crone PEM system was processed in the field by Crone supplied software. Data quality control was performed on site by Crone personnel and also remotely by Ashton and a consultant.

5.4 Target Drilling

Diamond drilling was used to test three geophysical anomalies that warranted further investigation. Ashton completed eight diamond drill holes during this assessment period which resulted in the discovery of two new kimberlites: K296 and K300. Anomaly BH302 was tested but failed to intersect kimberlite. The K6 kimberlite, discovered in 1997 was revisited to obtain further material for geological and diamond evaluation.

Connors drilling of Kamloops British Columbia was contracted to conduct HQ/NQ core size diamond drilling. Hill Drilling of Thorhild, Alberta was contracted to cement drill casing and C. Stewart Contracting of High Prairie Alberta was contracted for site preparation. Drilling commenced on January 25, 2003 and was completed by February 25, 2003. The combined total for all diamond drill holes was 1475 metres. Three holes totaling 505.5 metres were completed at kimberlite K296 and three holes totaling 549.4 metres were completed at kimberlite K300. Single drill holes were completed at anomaly BH302 and kimberlite K6 measuring 168.9 metres and 251.2 metres respectively.

All core was placed in numbered wooden core boxes, sealed, then shipped to Ashton's field camp where it was logged by an Ashton geologist. Select boxes of kimberlite core were then re-sealed and marked with metal tags in preparation for shipment to Ashton's laboratory in North Vancouver, British Columbia for further geological evaluation and microdiamond analysis.

A map showing drill hole locations, a table of drill holes, drill logs, and cross sections are located in Appendix D of this report.

5.4.1 Microdiamond Analysis

Kimberlite rock samples, in the form of small diameter drill core, reverse circulation drill chips, or surface rock pieces, are processed for the evaluation of diamond content by caustic fusion dissolution methods. Microdiamond determination is achieved through the recovery of all diamonds potentially larger than 0.10 mm in grain size which may exist in the processed kimberlite sample.

Kimberlite rock samples, typically 50 kilograms or larger in size, are processed for microdiamond determination through a complex process of progressive and iterative controlled crushing, fractionation, and other specialized geochemical techniques to produce heavy mineral concentrates. These concentrates are subjected to a high temperature fusion process in the presence of caustic chemicals to dissolve the rock materials while leaving any diamonds present in tact. The fusion residues are sent for microdiamond picking, where a team of mineral observers and mineralogists use binocular microscopy methods, in a two-pass, two-person

system, to recover the diamonds. Quality control testing measures and check samples are implemented at all stages of the process to ensure 100% recovery of all diamonds.

Microdiamond recovery was performed at Ashton Mining of Canada Inc.'s laboratory in North Vancouver, BC and at SGS Lakefield Research Laboratory in Lakefield, Ontario. Microdiamond testing was conducted on samples from K296, K300 and K6. Diamonds were recovered from all kimberlites and the results are summarized in a table in Appendix E.

6.0 CONCLUSION

Airborne geophysical surveying in conjunction with follow-up ground magnetic, electromagnetic and gravity surveys have proven to be effective for the selection of kimberlite targets for drill programs. To date, a total of 38 kimberlites have been discovered primarily through the use of geophysical evaluation.

Exploration work contained in this report confirmed a glacial dispersion of kimberlite indicator minerals in till occurring in the southwest portion of the Buffalo Hills Property. The programs also evaluated 38 geophysical anomalies using various geophysical methods. This resulted in the discovery of two new diamond-bearing kimberlites, BH296 and BH300 and the continued assessment of kimberlite K6. As the region is known to contain several significantly diamondiferous kimberlites, it is recommended that the combination of indicator mineral sampling and airborne/ground geophysical techniques continue as a way to define drill targets.

7.0 REFERENCES

- Skelton, D.N. and Willis, D.P.
2002 Assessment Report for the Buffalo Hills Property 2002, Ashton Diamonds (Canada) Inc.
- Skelton, D.N. and Bursey, T.
1999 Assessment Report, Buffalo Hills (AL01), Loon Lake (AL02), Birch Mountain (AL03), Rabbit Lake (AL04), and Muddy River (AL05) Properties, Ashton Mining of Canada Inc.
- Skelton, D.N. and Bursey, T.
1998 Assessment Report, Buffalo Hills Property (AL01), Ashton Mining of Canada Inc.
- Fulton, R.J.
1996 Surficial Materials of Canada, Geological Survey of Canada, Map 1880A
- Dufresene, M.B., Olsen, R.A., Schmitt, D.R., Mckinstry, B., Eccles, D.R., Fenton, M.M., Pawlowicz, J.G., Edwards, W.A.D., and Richardson R.J.H.
1994 The diamond potential of Alberta: A regional synthesis of the structural and stratigraphic setting and other preliminary indicators of diamond potential. Alberta Research Council, Open File Report 1994-10
- Dufresene, M.B., Olsen, R.A., Schmitt, D.R., Mckinstry, B., Eccles, D.R., Fenton, M.M., Pawlowicz, J.G., Edwards, W.A.D., and Richardson R.J.H.
1994 The Diamond Potential of Alberta: Alberta Geological Survey, Bulletin No. 63.
- Mossop, G.D. and Shetson, I.
1994 Geological Atlas of the Western Canadian Sedimentary Basin, Canadian Society of Petroleum Geologists and the Alberta Research Council
- Hamilton, Price, Langenberg
1999 Geological Map of Alberta, Alberta Geological Survey, Map 236
- Fugro Airborne Systems
2003 Logistics and Processing Report Airborne magnetic and Geotem survey, Buffalo Hills Property, Alberta, Canada.
- Ross, G.M., Brome, J and Miles, W.
1994 – Potential Fields and Basement Structures – Western Canadian Sedimentary Basin, Geological Survey of Canada, Produced in The Geological Atlas of the Western Canadian Sedimentary Basin, Chapter 4, p. 41 to 47

8.0 CERTIFICATE OF QUALIFICATIONS

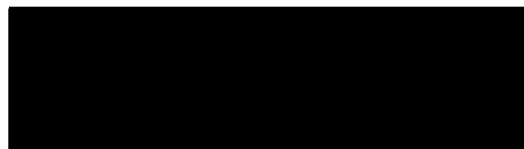
8.1 Certificate of Qualification - Jeff Ward

I, Jeff Ward, of 4004 West 31st Avenue, Vancouver, British Columbia hereby certify:

1. I am presently employed as a project geologist with Ashton Mining of Canada Inc. at Unit 116, 980 West First Street, North Vancouver, B.C. V7P 3N4.
2. I am a graduate of the University of Western Ontario and hold a B.Sc. degree in Geology, (1989).
3. I have been employed in the mineral exploration industry since 1984 and have practiced my profession since graduation.
4. I have been registered as a Professional Geologist with The Association of Professional Engineers, Geologist and Geophysicists of Alberta since June 1, 2000 and The Association of Professional Engineers, Geologists and Geophysicists of the Northwest Territories since June 15, 2000.
5. That the information in this report is based on work done to evaluate the property, in collaboration with colleagues involved in various aspects of exploration.

DATED at North Vancouver, British Columbia, this 15th day of November, 2004.

Ashton Diamonds (Canada) Inc.



Jeff Ward, B.Sc., P. Geol.

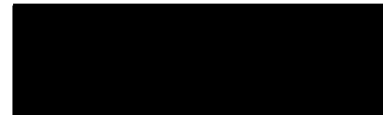
8.2 Certificate of Qualification - David Willis

I, David Willis, 4216 Graveley Street, Burnaby, British Columbia hereby certify that:

3. I am presently employed as a Land Administrator with Ashton Mining of Canada Inc. and its subsidiary Ashton Diamonds (Canada) Inc. at Unit 116 – 980 West 1st Street, North Vancouver, B.C.
1. I am a graduate of the University of Alberta and hold a B.A. Degree in anthropology.
2. I am a graduate of the Northern Alberta Institute of Technology and hold a diploma in mineral engineering.
4. I have been employed with Ashton Mining of Canada Inc. since 1997.
5. That the information in this report is based on work done to evaluate the property, in collaboration with colleagues involved in various aspects of exploration.

DATED at North Vancouver, British Columbia, this 15th day of November 2004.

ASHTON DIAMONDS CANADA INC.



David Willis, B.A., Dip Mineral Engineering

APPENDIX “A” – EXPENDITURE ALLOCATION

- **Statement of Expenditure**
- **Buffalo Hills Property - Notarized Statement of Expenditure**
- **Permit Maintenance Map**
- **Permit Maintenance Table**
- **Notice of Designation – September 16th, 2002**
- **Notice of Designation – November 16th, 2004**

2004 Buffalo Hills Region Assessment Filing
Buffalo Hills Property Statement of Expenditure
July 1, 2002 - September 30, 2004

Categories	Description	Heavy Mineral Sampling	Airborne Geophysics	Ground Geophysics	Drilling	Total Cost
		\$	\$	\$	\$	\$
Salary and Wages						
Senior Supervision		3,174.41	44,402.79	29,782.08	26,050.47	103,409.75
Field Technicians		4,180.00		52,105.00	34,557.50	90,842.50
Report Preparation		2,825.00	2,467.50	30,637.50	7,913.30	43,843.30
Drafting/Mapping		1,922.50	157.50	1,425.88	5,644.69	9,150.57
Clerical			363.00	318.50	328.50	1,010.00
Total Salaries		12,101.91	47,390.79	114,268.96	74,494.46	248,256.12
Field Costs						
Accommodation/Meals		7,532.29	93,879.03	92,680.78	56,717.76	250,809.86
Field Supplies		78.97		3,834.10	1,605.25	5,518.32
Fuel				26,671.18	11,522.88	38,194.06
Freight				2,040.44	4,061.41	6,101.85
Communications				2,047.51	-	2,047.51
Travel Costs		525.24	6,157.72	7,216.76	3,430.50	17,330.23
Total Field		8,136.50	100,036.75	134,490.77	77,337.81	320,001.83
Rental Equipment						
Field Equipment Rental				946.12	-	946.12
Vehicle Operation and Repair		1,156.94	1,359.34	844.17	17,013.45	20,373.90
Total Equipment		1,156.94	1,359.34	1,790.29	17,013.45	21,320.02
Subcontracting Services						
Drilling Contractor:	Alberta Pacific Forest				303.71	303.71
	Black Gold Anchors				37,100.00	37,100.00
	C. Stewart Contracting	4,270.00			57,435.00	61,705.00
	Connors Drilling				194,542.68	194,542.68
	Daishowa Marubeni				1,129.42	1,129.42
	Hill Drilling				29,487.00	29,487.00
	L.R.C. Contractors				5,021.00	5,021.00
	Northern Lakes College				1,526.00	1,526.00
	Polly Drill Drilling Systems				364.73	364.73
	Sanjel Corporation				9,625.65	9,625.65
	Slave Safety				3,102.25	3,102.25
	Sontec Drilling	20,800.00			-	20,800.00
	Zell Oilfield Services				9,095.95	9,095.95
Geological/Geophysical Contractor:	Crone Geophysics			76,908.20	-	76,908.20
	[REDACTED]		1,092.00	20.47	-	1,112.47
	Fugro Airborne Surveys		812,409.25		-	812,409.25
	J. Silic & Associates		89,305.07	22,955.42	-	112,260.49
	[REDACTED]			12,757.62	-	12,757.62
	MEG Systems			65,460.24	-	65,460.24
Helicopter Contractor:	Great Slave Helicopters			190,353.40	1,737.60	192,091.00
	Highland Helicopter				1,535.10	1,535.10
Total Subcontractors		25,070.00	902,806.32	368,455.35	352,006.09	1,648,337.76
Laboratory Charges						
Processing		6,852.75			-	6,852.75
Observing		18,800.30			-	18,800.30
Assay Costs					10,645.00	10,645.00
Diamond Laboratory Charge					56,530.92	56,530.92
Total Lab Charges		25,653.05	-	-	67,175.92	92,828.97
Office Charges, Administrative, General						
Maps, Reports, Publications				10.50	156.00	166.50
Communication - Telephone/Fax		8.97	123.88	76.93	73.65	283.43
Postal, Courier, Freight		14.77	219.33	186.74	158.24	579.08
Miscellaneous Office Expenses		116.83		23.73	-	140.56
Land Administration (permits, road use fees, etc.)					4,518.94	4,518.94
General Office Overhead		1,611.76	22,246.28	13,815.24	13,226.72	50,900.00
Total Office Administration		1,752.33	22,589.48	14,113.14	18,133.56	56,588.51
ACTIVITIES GRAND TOTALS		73,870.73	1,074,182.68	633,118.50	606,161.29	2,387,333.21

Property	Permit Numbers	Total Permits
Buffalo Hills	9396060030	58
	9396060035 to 9396060069	
	9396060071 to 9396060077	
	9396060079 to 9396060085	
	9396080086 to 9396080090	
	9397010063, 9397030018, 9397030022	

A Notary Public in and for the
Province of British Columbia. My
commission is unlimited as to time.

Areas to Maintain

#	Permit	TWP	Rge	Mer	Sections (quarters)	Sections	Total Area (Ha.)	Cost (\$15/ha)	Existing Excess	Total Allocation
1	9396060085	95	14	5	2, 11, 12, 24, 25, 32	6	1,536.00	\$ 23,040.00	\$ -	\$ 23,040.00
2	9396060084	95	13	5	3 to 10, 15 to 20	14	3,584.00	\$ 53,760.00	\$ -	\$ 53,760.00
3	9396060083	95	12	5	22 to 27, 34	7	1,792.00	\$ 26,880.00	\$ -	\$ 26,880.00
4	9396060082	95	11	5	1 to 18, 22 to 27, 34 to 36	27	6,912.00	\$ 103,680.00	\$ -	\$ 103,680.00
5	9396060081	95	10	5	3 to 10, 15 to 22, 27 to 34	24	6,144.00	\$ 92,160.00	\$ -	\$ 92,160.00
6	9396060080	95	9	5	1, 2, 11 to 14, 23, 24	8	2,048.00	\$ 30,720.00	\$ -	\$ 30,720.00
7	9396060079	95	8	5	5 to 8, 17 to 21, 26 to 29	13	3,328.00	\$ 49,920.00	\$ -	\$ 49,920.00
8	9396060077	94	14	5	2, 3, 11, 14 to 17, 20 to 23	11	2,816.00	\$ 42,240.00	\$ -	\$ 42,240.00
9	9396060076	94	13	5	1, 2, 10 to 13, 24, 26, 34	9	2,304.00	\$ 34,560.00	\$ -	\$ 34,560.00
10	9396060075	94	12	5	1, 4, 5, 12, 13, 19, 20, 24, 29, 32, 33	11	2,816.00	\$ 42,240.00	\$ -	\$ 42,240.00
11	9396060074	94	11	5	1 to 36	36	9,216.00	\$ 138,240.00	\$ -	\$ 138,240.00
12	9396060073	94	10	5	5 to 8, 17 to 20, 29 to 32	12	3,072.00	\$ 46,080.00	\$ -	\$ 46,080.00
13	9396060072	94	9	5	surrender entirely	0	-	\$ -	\$ -	\$ -
14	9396060071	94	8	5	surrender entirely	0	-	\$ -	\$ -	\$ -
15	9396060069	93	14	5	36	1	256.00	\$ 3,840.00	\$ -	\$ 3,840.00
16	9396060068	93	13	5	3, 4, 6, 7, 9, 14 to 20, 22, 25, 26, 30, 35, 36	18	4,608.00	\$ 69,120.00	\$ -	\$ 69,120.00
17	9396060067	93	12	5	5, 6, 12, 30 to 33	7	1,792.00	\$ 26,880.00	\$ -	\$ 26,880.00
18	9396060066	93	11	5	1 to 36	36	9,216.00	\$ 138,240.00	\$ -	\$ 138,240.00
19	9396060065	93	10	5	5 to 8, 17 to 20, 29 to 32	12	3,072.00	\$ 46,080.00	\$ -	\$ 46,080.00
20	9396060064	93	9	5	surrender entirely	0	-	\$ -	\$ -	\$ -

#	Permit	TWP	Rge	Mer	Sections (quarters)	Sections	Total Area (Ha.)	Cost (\$15/ha)	Existing Excess	Total Allocation
21	9396060063	93	8	5	surrender entirely	0	-	\$ -	\$ -	\$ -
22	9396060062	93	7	5	3, 4	2	512.00	\$ 7,680.00	\$ -	\$ 7,680.00
23	9396060061	92	14	5	4, 9, 15, 16, 35, 36	6	1,536.00	\$ 23,040.00	\$ -	\$ 23,040.00
24	9396060060	92	13	5	1 to 5, 8 to 17, 20 to 24, 28, 33 to 36	25	6,400.00	\$ 96,000.00	\$ -	\$ 96,000.00
25	9396060059	92	12	5	1 to 24, 31, 32	26	6,656.00	\$ 99,840.00	\$ -	\$ 99,840.00
26	9396060058	92	11	5	1 to 36	36	9,216.00	\$ 138,240.00	\$ 96,340.00	\$ 41,900.00
27	9396060057	92	10	5	1 to 36	36	9,216.00	\$ 138,240.00	\$ -	\$ 138,240.00
28	9396060056	92	9	5	19	1	256.00	\$ 3,840.00	\$ -	\$ 3,840.00
29	9396060055	92	8	5	12, 13, 20, 23 to 27, 29	9	2,304.00	\$ 34,560.00	\$ -	\$ 34,560.00
30	9396060054	92	7	5	6,7,18,19, 22, 23, 26, 27	8	2,048.00	\$ 30,720.00	\$ -	\$ 30,720.00
31	9397030022	92	6	5	1, 2, 11, 12	4	1,024.00	\$ 15,360.00	\$ -	\$ 15,360.00
32	9396060053	91	14	5	13, 14, 22 to 24, 27, 30, 33, 34	9	2,304.00	\$ 34,560.00	\$ -	\$ 34,560.00
33	9396060052	91	13	5	2 to 4, 9 to 15, 22 to 27, 29, 30, 32 to 36	23	5,888.00	\$ 88,320.00	\$ -	\$ 88,320.00
34	9396060051	91	12	5	1 to 36	36	9,216.00	\$ 138,240.00	\$ -	\$ 138,240.00
35	9396060050	91	11	5	1 to 36	36	9,216.00	\$ 138,240.00	\$ 96,340.00	\$ 41,900.00
36	9396060049	91	10	5	4 to 9, 16 to 21, 28 to 33	18	4,608.00	\$ 69,120.00	\$ 96,340.00	\$ (27,220.00)
37	9396060048	91	9	5	17, 18	2	512.00	\$ 7,680.00	\$ -	\$ 7,680.00
38	9396060047	91	8	5	surrender entirely	0	-	\$ -	\$ -	\$ -
39	9396060046	91	7	5	3, 10, 11, 14, 31	5	1,280.00	\$ 19,200.00	\$ -	\$ 19,200.00
40	9397030018	91	6	5	13, 19 to 21, 24, 25	6	1,536.00	\$ 23,040.00	\$ -	\$ 23,040.00
41	9396060045	90	14	5	surrender entirely	0	-	\$ -	\$ -	\$ -
42	9396060044	90	13	5	28, 29, 32, 33	4	1,024.00	\$ 15,360.00	\$ -	\$ 15,360.00

#	Permit	TWP	Rge	Mer	Sections (quarters)	Sections	Total Area (Ha.)	Cost (\$15/ha)	Existing Excess	Total Allocation
43	9396060043	90	12	5	1 to 36	36	9,216.00	\$ 138,240.00	\$ -	\$ 138,240.00
44	9396060042	90	11	5	1 to 36	36	9,216.00	\$ 138,240.00	\$ 96,322.00	\$ 41,918.00
45	9396060041	90	10	5	11, 13, 17, 18, 25, 36	6	1,536.00	\$ 23,040.00	\$ -	\$ 23,040.00
46	9396060040	90	9	5	9 to 11, 14, 15, 18, 30, 31	8	2,048.00	\$ 30,720.00	\$ -	\$ 30,720.00
47	9396060039	90	8	5	2, 3, 10, 11	4	1,024.00	\$ 15,360.00	\$ -	\$ 15,360.00
48	9396060038	90	7	5	3, 4, 11 to 14, 18, 24	8	2,048.00	\$ 30,720.00	\$ -	\$ 30,720.00
49	9397010063	90	6	5	26, 27, 34, 35	4	1,024.00	\$ 15,360.00	\$ -	\$ 15,360.00
50	9396060037	89	14	5	surrender entirely	0	-	\$ -	\$ -	\$ -
51	9396060036	89	13	5	1 to 5, 8 to 16, 23 to 26	18	4,608.00	\$ 69,120.00	\$ -	\$ 69,120.00
52	9396060035	89	12	5	1 to 36	36	9,216.00	\$ 138,240.00	\$ -	\$ 138,240.00
53	9396060090	89	11	5	11, 14	2	512.00	\$ 7,680.00	\$ -	\$ 7,680.00
54	9396060089	89	10	5	surrender entirely	0	-	\$ -	\$ -	\$ -
55	9396060088	89	9	5	surrender entirely	0	-	\$ -	\$ -	\$ -
56	9396060087	89	8	5	surrender entirely	0	-	\$ -	\$ -	\$ -
57	9396060086	89	7	5	20, 23 to 26, 29, 30, 34	8	2,048.00	\$ 30,720.00	\$ -	\$ 30,720.00
58	9396060030	88	10	5	19 to 22, 27 to 34	12	3,072.00	\$ 46,080.00	\$ -	\$ 46,080.00

Totals: 722 184,832.00 \$ 2,772,480.00 \$ 385,342.00 \$ 2,387,138.00



ENERGY NOTICE OF DESIGNATION, REPLACEMENT OR REVOCATION OF REPRESENTATIVE

FOR DEPARTMENT USE ONLY:

APPROVED

Date September 25, 2002

May So

For Minister of Energy

(Do not write above this line)

- A. Full name of previous designated representative (enter "NONE" if this is a new designation by a sole lessee):
ASHTON MINING OF CANADA INC (APRIL 13, 1999) B. LSAS client ID (optional):
803-7908-001
- C. Full name of new designated representative (enter "NONE" if this is a revocation by a sole lessee):
ASHTON DIAMONDS (CANADA) INC. D. LSAS client ID (optional):
806-3523-001
- E. Agreement(s) (type and number) affected by this notice:
64 METALLIC AND INDUSTRIAL MINERAL PERMITS - SEE ATTACHED SCHEDULE
- F. The previous designated representative and new designated representative authorize this notice by signing this form and confirm that the consent of all registered lessees of the agreements enumerated has been obtained. (Note: if the signature of the previous designated representative or the new designated representative cannot be obtained, all lessees must sign.)
- G. This instrument may be executed in separate counterparts, and all of the executed counterparts shall together constitute one instrument and shall have the same force and effect as if all of the persons executing such counterparts had executed the same instrument.

H. Dated this 16th day of September 2002

I. ASHTON MINING OF CANADA INC.
Previous Designated Representative

[Redacted Signature]

Signature

ASHTON DIAMONDS (CANADA) INC.
New Designated Representative

[Redacted Signature]

Signature

BROOKE CLEMENTS, VP EXPLORATION
Printed name and capacity

BROOKE CLEMENTS, VP EXPLORATION
Printed name and capacity

Note: The signature of the lessee is required if this is a new designation by a sole lessee

FORWARD COMPLETED FORM, IN DUPLICATE, TO:

Alberta Department of Energy

Tenure Business Unit
9915 - 108 Street
Edmonton, AB
T6K 2G8

OR
Information Centre
Third Floor, Monenco Place
801 - 6th Avenue SW
Calgary, AB
T2P 3W2

Website: <http://www.energy.gov.ab.ca/com/Tenure>

Phone (780) 427-7425

Fax (780) 422-1123

??? QUESTIONS ???

Please phone during business hours

8:15 - 4:30, Monday to Friday

Ask for "Transfers"



NOTICE OF DESIGNATION. REPLACEMENT OR REVOCATION OF REPRESENTATIVE

FOR DEPARTMENT USE ONLY:

(Do not write above this line)

- A. Full name of previous designated representative (enter "NONE" if this is a new designation by a sole lessee):
ASHTON MINING OF CANADA INC.
- B. LSAS client ID (optional):
803-7908-001
- C. Full name of new designated representative (enter "NONE" if this is a revocation by a sole lessee):
ASHION DIAMONDS (CANADA) INC.
- D. LSAS client ID (optional):
806-3523-001
- E. Agreement(s) (type and number) affected by this notice:
METALLIC AND INDUSTRIAL MINERAL PERMITS: 9397030016 to 9397030018, 9397030022, 9397010063
- F. The previous designated representative and new designated representative authorize this notice by signing this form and confirm that the consent of all registered lessees of the agreements enumerated has been obtained. (Note: if the signature of the previous designated representative or the new designated representative cannot be obtained, all lessees must sign.)
- G. This instrument may be executed in separate counterparts, and all of the executed counterparts shall together constitute one instrument and shall have the same force and effect as if all of the persons executing such counterparts had executed the same instrument.
- H. Dated this 16th day of NOVEMBER 2004
- I. ASHION MINING OF CANADA INC. ASHION DIAMONDS (CANADA) INC.
Previous Designated Representative New Designated Representative
- [Signature] [Signature]
Signature Signature
- BROOKE CLEMENTS, VP EXPLORATION BROOKE CLEMENTS, VP EXPLORATION
Printed name and capacity Printed name and capacity

Note: The signature of the lessee is required if this is a new designation by a sole lessee

FORWARD COMPLETED FORM, IN DUPLICATE, TO:

Alberta Department of Energy

Tenure Business Unit
9915 - 108 Street
Edmonton, AB
T5K 2G8

OR

Information Centre
Monenco Place
300, 801 - 6th Avenue SW
Calgary, AB
T2P 3W2

Website: <http://www.energy.gov.ab.ca/tenure>

Phone (780) 427-7425
Fax (780) 422-1123

???

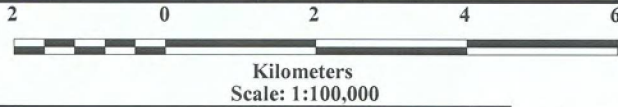
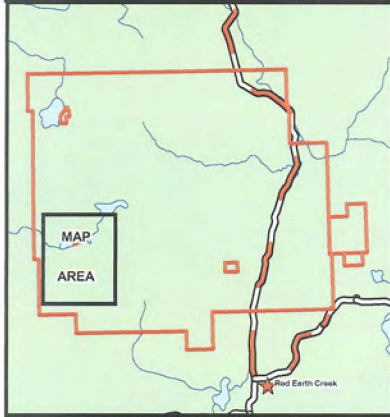
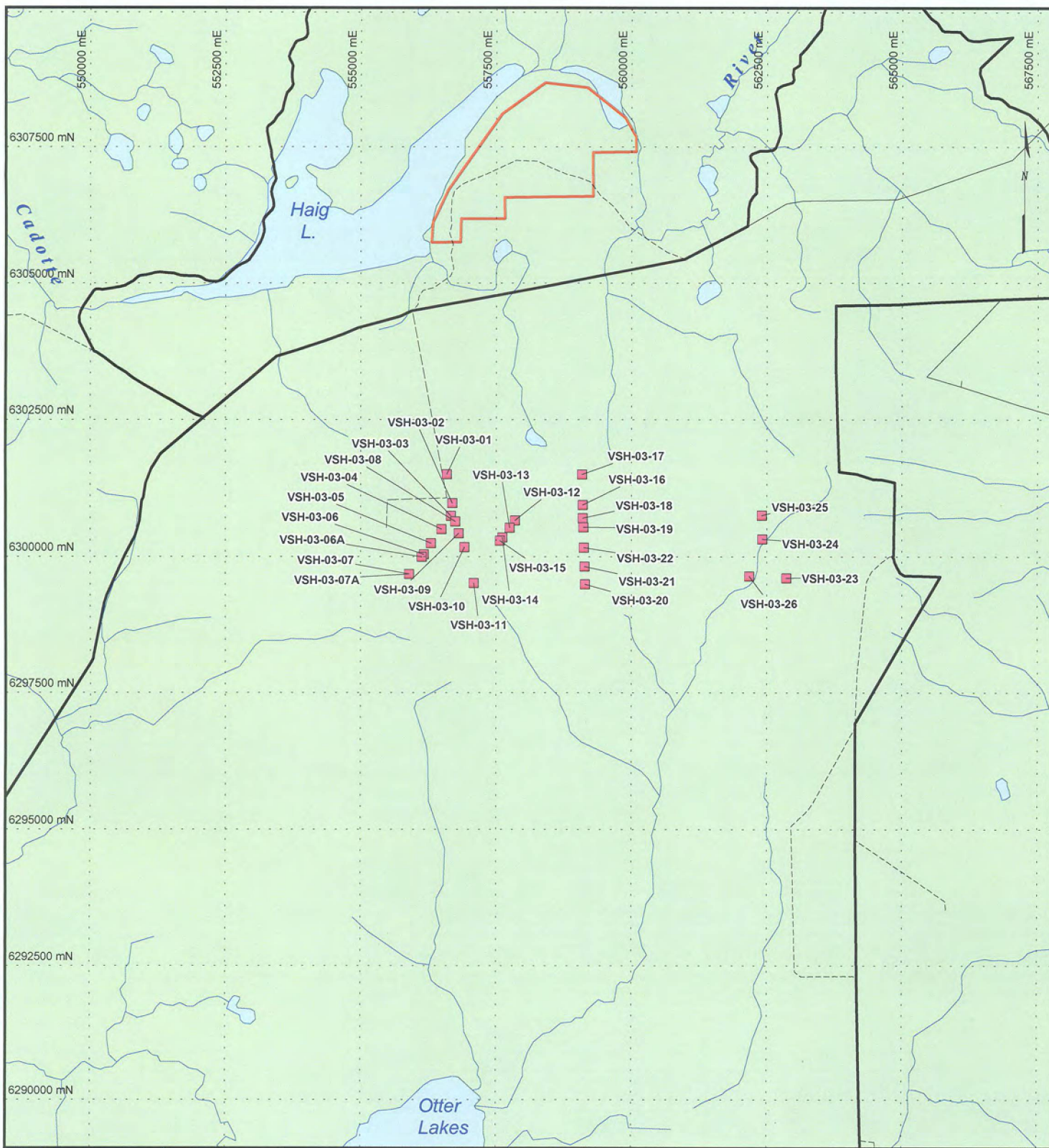
QUESTIONS

???

Please phone during business hours
8:15 - 4:30, Monday to Friday
Ask for "Transfers & Encumbrances"

APPENDIX “B” – HEAVY MINERAL SAMPLING

- **Vibrasonic Drill Hole Location Map**
- **Sample Location/Interval Table**
- **Sample Results Table – Kimberlite Indicator Minerals**
- **Sample Results Glossary – Kimberlite Indicator Minerals**
- **Drill Hole Summary Logs**



Legend

- Highway
- Road
- Trail
- Vibrasonic drill hole
- Property boundary

Ashton Mining of Canada Inc.

Oct. 15, 2004
 Author: CC
 Proj: UTM12
 NAD27

**Buffalo Hills, Alberta
 Vibrasonic Drilling Locations**

J:\4Maps\AB\Drilling\BH\Assessment\

Sample Location/Interval Table

Drill Hole	Unique ID	Datum	East	North	Zone	Interval	
						From	To
VSH-03-01	RC03-4009	NAD27	556584	6301505	11	0	8.5
VSH-03-01	RC03-4010	NAD27	556584	6301505	11	8.5	17.7
VSH-03-02	RC03-4012	NAD27	556685	6300975	11	8.5	17.7
VSH-03-03	RC03-4013	NAD27	556660	6300745	11	0	4.6
VSH-03-03	RC03-4014	NAD27	556660	6300745	11	4.6	10.6
VSH-03-04	RC03-4016	NAD27	556486	6300502	11	0	3
VSH-03-04	RC03-4017	NAD27	556486	6300502	11	3	10
VSH-03-04	RC03-4018	NAD27	556486	6300502	11	10	14.6
VSH-03-05	RC03-4019	NAD27	556295	6300245	11	0	3.6
VSH-03-05	RC03-4020	NAD27	556295	6300245	11	3.6	9.1
VSH-03-05	RC03-4021	NAD27	556295	6300245	11	9.1	13.7
VSH-03-06A	RC03-4022	NAD27	556123	6299996	11	0	3.6
VSH-03-06A	RC03-4023	NAD27	556123	6299996	11	3.6	8.8
VSH-03-06A	RC03-4024	NAD27	556123	6299996	11	8.8	11.6
VSH-03-07	RC03-4025	NAD27	555893	6299678	11	0	3
VSH-03-07	RC03-4026	NAD27	555893	6299678	11	3	5.5
VSH-03-08	RC03-4027	NAD27	556740	6300640	11	0	2.4
VSH-03-09	RC03-4028	NAD27	556807	6300426	11	0	5.5
VSH-03-10	RC03-4029	NAD27	556911	6300170	11	0	4.9
VSH-03-10	RC03-4030	NAD27	556911	6300170	11	4.9	8.2
VSH-03-11	RC03-4031	NAD27	557083	6299512	11	0	2.3
VSH-03-11	RC03-4032	NAD27	557083	6299512	11	2.3	10.1
VSH-03-12	RC03-4034	NAD27	557848	6300660	11	0	5.2
VSH-03-13	RC03-4035	NAD27	557748	6300526	11	0	4
VSH-03-13	RC03-4036	NAD27	557748	6300526	11	4	6.1
VSH-03-14	RC03-4037	NAD27	557614	6300350	11	0	2.7
VSH-03-14	RC03-4038	NAD27	557614	6300350	11	2.7	7.3
VSH-03-15	RC03-4039	NAD27	557569	6300290	11	0	2.4
VSH-03-15	RC03-4040	NAD27	557569	6300290	11	2.4	7.3
VSH-03-16	RC03-4041	NAD27	559100	6300940	11	0	2.4
VSH-03-16	RC03-4042	NAD27	559100	6300940	11	2.4	10.1
VSH-03-17	RC03-4043	NAD27	559085	6301500	11	4.3	8.5
VSH-03-18	RC03-4044	NAD27	559100	6300700	11	0	7.3
VSH-03-19	RC03-4045	NAD27	559111	6300537	11	0	5.5
VSH-03-19	RC03-4046	NAD27	559111	6300537	11	5.5	8.5
VSH-03-20	RC03-4047	NAD27	559140	6299490	11	0	4
VSH-03-21	RC03-4048	NAD27	559132	6299818	11	0	4.3
VSH-03-21	RC03-4049	NAD27	559132	6299818	11	4.3	8.5
VSH-03-22	RC03-4050	NAD27	559120	6300165	11	0	5.5
VSH-03-22	RC03-4051	NAD27	559120	6300165	11	5.5	8.5
VSH-03-23	RC03-4052	NAD27	562859	6299606	11	0	5.5
VSH-03-24	RC03-4053	NAD27	562415	6300321	11	0	8.5
VSH-03-25	RC03-4054	NAD27	562407	6300750	11	0	5.5
VSH-03-26	RC03-4055	NAD27	562176	6299640	11	0	5.5

Total: 44

Sample Results Table - Kimberlite Indicator Minerals

Ashton Mining of Canada Inc. Laboratory - North Vancouver, British Columbia

Drill Hole	Unique ID	DIA	PY_P	PY_E	CR_D	CHRO	PICR	K_OL	IND
VSH-03-01	RC03-4009	0	0	0	0	0	0	0	0
VSH-03-01	RC03-4010	0	0	0	0	1	0	0	1
VSH-03-02	RC03-4012	0	0	0	0	0	0	0	0
VSH-03-03	RC03-4013	0	5	0	0	5	0	0	10
VSH-03-03	RC03-4014	0	1	0	0	1	0	0	2
VSH-03-04	RC03-4016	0	40	0	0	77	0	1	118
VSH-03-04	RC03-4017	0	2	0	0	0	0	0	2
VSH-03-04	RC03-4018	0	0	0	0	0	0	0	0
VSH-03-05	RC03-4019	0	8	0	0	16	0	3	27
VSH-03-05	RC03-4020	0	9	0	0	12	1	0	22
VSH-03-05	RC03-4021	0	1	0	0	4	0	1	6
VSH-03-06A	RC03-4022	0	11	0	0	19	0	3	33
VSH-03-06A	RC03-4023	0	2	0	0	6	0	0	8
VSH-03-06A	RC03-4024	0	1	0	0	1	0	0	2
VSH-03-07	RC03-4025	0	47	0	1	68	0	4	120
VSH-03-07	RC03-4026	0	2	0	0	14	0	0	16
VSH-03-08	RC03-4027	0	34	0	0	98	1	15	148
VSH-03-09	RC03-4028	0	54	0	0	85	0	2	141
VSH-03-10	RC03-4029	0	3	0	0	10	0	2	15
VSH-03-10	RC03-4030	0	1	0	0	1	0	2	4
VSH-03-11	RC03-4031	0	3	1	0	16	1	1	22
VSH-03-11	RC03-4032	0	0	0	0	0	0	0	0
VSH-03-12	RC03-4034	0	7	0	0	7	0	2	16
VSH-03-13	RC03-4035	0	23	1	0	41	0	0	65
VSH-03-13	RC03-4036	0	6	0	0	19	0	0	25
VSH-03-14	RC03-4037	0	1	0	0	3	0	0	4
VSH-03-14	RC03-4038	0	0	0	0	3	0	0	3
VSH-03-15	RC03-4039	0	1	0	0	0	3	2	6
VSH-03-15	RC03-4040	0	0	0	0	2	0	0	2
VSH-03-16	RC03-4041	0	48	1	0	79	1	1	130
VSH-03-16	RC03-4042	0	4	0	0	3	0	0	7
VSH-03-17	RC03-4043	0	7	0	0	12	0	0	19
VSH-03-18	RC03-4044	0	0	0	0	8	1	1	10
VSH-03-19	RC03-4045	0	3	1	0	7	0	0	11
VSH-03-19	RC03-4046	0	2	0	0	0	0	0	2
VSH-03-20	RC03-4047	0	15	0	0	5	0	3	23
VSH-03-21	RC03-4048	0	6	0	0	6	1	2	15
VSH-03-21	RC03-4049	0	5	0	0	3	0	0	8
VSH-03-22	RC03-4050	0	10	0	3	13	0	3	29
VSH-03-22	RC03-4051	0	2	0	0	0	0	0	2
VSH-03-23	RC03-4052	0	16	0	0	31	0	4	51
VSH-03-24	RC03-4053	0	16	0	0	18	0	2	36
VSH-03-25	RC03-4054	0	3	1	0	12	0	1	17
VSH-03-26	RC03-4055	0	24	0	0	27	0	4	55

Total: 44

Sample Results Table Glossary - Kimberlite Indicator Minerals

DIA	Total Diamond
PY_P	Total Peridotitic Pyrope
PY_E	Total Eclogitic Pyrope
CR_D	Total Chrome Diopside
CHRO	Total Chromite
PICR	Total Picro-ilmenite
K_OL	Total Kimberlitic Olivine
IND	Total Indicators



Ashton Mining of Canada Inc.

Diamond Drill Hole Summary Log for VSH-03-01

<u>HOLE-ID</u>	VSH-03-01	<u>Start Date</u>	18-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	18-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	17.7	<u>Wk Permit</u>	MME020004
<u>Easting</u>	556584	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6301505	<u>Dip</u>	-90	<u>Legal Desc.</u>	NW - 31 - 90 - 13 - 5
<u>Elevation</u>	521	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060044
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	18-Jan-03
<u>Mapsheet</u>	084C16			<u>Logged by</u>	A. Berry

Purpose Glacial overburden sampling.

Comments 14009 0 to 28', 14010 28' to 58', EOH 58', 0-8' dark brown clay cap till, 8'-58' dark grey clay/silty brown till? No obvious bedding, silt stone. Low, swampy spruce trees slight depression on north side of hill

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 8.5	ATILL	Ablation Till
8.5 to 17.7	GFMIXED	Glacio-Fluvial Mixed
17.7	EOH (m)	



Ashton Mining of Canada Inc.

Diamond Drill Hole Summary Log for VSH-03-02

<u>HOLE-ID</u>	VSH-03-02	<u>Start Date</u>	19-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	19-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	17.7	<u>Wk Permit</u>	MME020004
<u>Easting</u>	556685	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6300975	<u>Dip</u>	-90	<u>Legal Desc.</u>	NW - 31 -90 - 13 - 5
<u>Elevation</u>	521	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060044
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	19-Jan-03
<u>Mapsheet</u>	084C16			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>	14011-0 to 28'/14012-28 to 58'/0-14 Rusty yellw oxidized, clay rich, rare pbl size clasts, clasts alt to clay - limonite alt some reddish colour/14-58 till-dark grnish gray black clay rich till - diamicton/Almost no clasts-pure clay only, some silty seams				
<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>			
0 to 8.5	ATILL	Ablation Till			
8.5 to 17.7	GFMIXED	Glacio-Fluvial Mixed			
17.7	EOH (m)				



Ashton Mining of Canada Inc. Diamond Drill Hole Summary Log for VSH-03-03

<u>HOLE-ID</u>	VSH-03-03	<u>Start Date</u>	19-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	19-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	16.2	<u>Wk Permit</u>	MME020004
<u>Easting</u>	556660	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6300745	<u>Dip</u>	-90	<u>Legal Desc.</u>	SW - 31 -90 - 13 - 5
<u>Elevation</u>	821	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060044
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	19-Jan-03
<u>Mapsheet</u>	084C16			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				

<u>Comments</u>	14013, 0-15/14014, 15-35/14015, 35-53/EOH 53/0-11 till - clastic 5-10% pbls, oxdzd ylw brwn w/clay & silt matrix (50% revry)/11-20 silts - non clastic - oxidized just silts & clays ylw brwn/20-53 silts - drk gry silts & clay, mostly silts, no clays
-----------------	--

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 4.6	ATILL	Ablation Till
4.6 to 10.6	GFMIXED	Glacio-Fluvial Mixed
10.6 to 16.1	GFSILTS	Glacio-Fluvial Silts
16.2	EOH (m)	



Ashton Mining of Canada Inc.

Diamond Drill Hole Summary Log for VSH-03-04

<u>HOLE-ID</u>	VSH-03-04	<u>Start Date</u>	20-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	20-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	14.6	<u>Wk Permit</u>	MME020004
<u>Easting</u>	556486	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6300502	<u>Dip</u>	-90	<u>Legal Desc.</u>	SW - 31 -90 - 13 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060044
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	20-Jan-03
<u>Mapsheet</u>	084C16			<u>Logged by</u>	
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>	14016, 0-10/14017, 10-33/14018, 33-48/0-7.5' GF grvl - drk brwn clasts suptrd mstly mudstn surnded clasts - ang 1cm spaces btwn clsts hrzns w/ SS clsts/7.5-8.5 slt seam -ylw w/mnr small pbbs (coarse sand) but norml snd size absent, 8.5-10' GF grvl				

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 3	ATILL	Ablation Till
3 to 10	GFMIXED	Glacio-Fluvial Mixed
10 to 14.6	GFSILTS	Glacio-Fluvial Silts
14.6	EOH (m)	



Ashton Mining of Canada Inc. Diamond Drill Hole Summary Log for VSH-03-05

<u>HOLE-ID</u>	VSH-03-05	<u>Start Date</u>	20-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	20-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	13.7	<u>Wk Permit</u>	MME020004
<u>Easting</u>	556295	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6300245	<u>Dip</u>	-90	<u>Legal Desc.</u>	SE - 36 -90 - 14 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MLM Permit</u>	9396060045
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	20-Jan-03
<u>Mapsheet</u>	084C16			<u>Logged by</u>	A. Berry

Purpose Glacial overburden sampling.

Comments 14019, 1-12/14020, 12-30/14021, 30-45, EOH 45'/0-8 30% rec, drk brwn till - clastic alt mudstn clasts in clay mtrx
8-12 orng brwn-till clastic (~5%) to 2cm in a silty clay mtrx/12-45 grey (mottled orng) till silty clay mtrx w/local round siltstn clasts

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 3.6	ATILL	Ablation Till
3.6 to 9.1	GFMIXED	Glacio-Fluvial Mixed
9.1 to 13.7	GFSILTS	Glacio-Fluvial Silts
13.7	EOH (m)	



Ashton Mining of Canada Inc.
Diamond Drill Hole Summary Log for VSH-03-06

<u>HOLE-ID</u>	VSH-03-06	<u>Start Date</u>	21-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	21-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	10	<u>Wk Permit</u>	MME020004
<u>Easting</u>	556164	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6300040	<u>Dip</u>	-90	<u>Legal Desc.</u>	SE - 36 -90 - 14 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060045
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	21-Jan-03
<u>Mapsheet</u>	084C16			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>	Muskeg, no sample collected, hole moved to VSH-03-06A				
<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>			
0 to 10	OB	Overburden			
10	EOH (m)				



Ashton Mining of Canada Inc.

Diamond Drill Hole Summary Log for VSH-03-06A

<u>HOLE-ID</u>	VSH-03-06A	<u>Start Date</u>	21-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	21-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	11.6	<u>Wk Permit</u>	MME020004
<u>Easting</u>	556123	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6299996	<u>Dip</u>	-90	<u>Legal Desc.</u>	NE - 25 -90 - 14 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060045
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	21-Jan-03
<u>Mapsheet</u>	084C16			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>	0-12 muskeg/12-18 silts (wet) (not clastis)HOLE ABANDONED AT 18'/no sample. Definate low swampy depression				

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 3.6	ATILL	Ablation Till
3.6 to 8.8	GFMIXED	Glacio-Fluvial Mixed
8.8 to 11.6	GFSILTS	Glacio-Fluvial Silts
11.6	EOH (m)	



Ashton Mining of Canada Inc.

Diamond Drill Hole Summary Log for VSH-03-07

<u>HOLE-ID</u>	VSH-03-07	<u>Start Date</u>	21-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	21-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	5.5	<u>Wk Permit</u>	MME020004
<u>Easting</u>	555893	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6299678	<u>Dip</u>	-90	<u>Legal Desc.</u>	NE - 25 -90 - 14 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060045
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	21-Jan-03
<u>Mapsheet</u>	084C16			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>					

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 3	ATILL	Ablation Till
3 to 5.5	GFMIXED	Glacio-Fluvial Mixed
5.5	EOH (m)	



Ashton Mining of Canada Inc.
Diamond Drill Hole Summary Log for VSH-03-07A

<u>HOLE-ID</u>	VSH-03-07A	<u>Start Date</u>	21-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	21-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	5.5	<u>Wk Permit</u>	MME020004
<u>Easting</u>	555893	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6299678	<u>Dip</u>	-90	<u>Legal Desc.</u>	NE - 25 -90 - 14 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MLM Permit</u>	9396060045
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	21-Jan-03
<u>Mapsheet</u>	084C16			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>	Identical location to VSH-03-07. A second hole was drilled to recover a larger sample of material, recovered material was added to VSH-03-07 interval samples.				

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 3.6	ATILL	Ablation Till
3.6 to 5.5	GFMIXED	Glacio-Fluvial Mixed
5.5	EOH (m)	



Ashton Mining of Canada Inc.
Diamond Drill Hole Summary Log for VSH-03-08

<u>HOLE-ID</u>	VSH-03-08	<u>Start Date</u>	21-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	21-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	5.5	<u>Wk Permit</u>	MME020004
<u>Easting</u>	556740	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6300640	<u>Dip</u>	-90	<u>Legal Desc.</u>	SW - 31 -90 - 13 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060044
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	21-Jan-03
<u>Mapsheet</u>	084C16			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>					
<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>			
0 to 2.4	ATILL	Ablation Till			
2.4 to 5.5	GFMIXED	Glacio-Fluvial Mixed			
5.5	EOH (m)				



Ashton Mining of Canada Inc.

Diamond Drill Hole Summary Log for VSH-03-09

<u>HOLE-ID</u>	VSH-03-09	<u>Start Date</u>	21-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	21-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	8.5	<u>Wk Permit</u>	MME020004
<u>Easting</u>	556807	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6300426	<u>Dip</u>	-90	<u>Legal Desc.</u>	SW - 31 -90 - 13 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060044
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	21-Jan-03
<u>Mapsheet</u>	084C16			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>					
<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>			
0 to 5.5	ATILL	Ablation Till			
8.5	EOH (m)				



Ashton Mining of Canada Inc. Diamond Drill Hole Summary Log for VSH-03-10

<u>HOLE-ID</u>	VSH-03-10	<u>Start Date</u>	22-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	22-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	8.5	<u>Wk Permit</u>	MME020004
<u>Easting</u>	556911	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6300170	<u>Dip</u>	-90	<u>Legal Desc.</u>	SW - 31 -90 - 13 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MLM Permit</u>	9396060044
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	22-Jan-03
<u>Mapsheet</u>	084C16			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>					

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 4.9	ATILL	Ablation Till
4.9 to 8.2	GFMIXED	Glacio-Fluvial Mixed
8.5	EOH (m)	



Ashton Mining of Canada Inc. Diamond Drill Hole Summary Log for VSH-03-11

<u>HOLE-ID</u>	VSH-03-11	<u>Start Date</u>	22-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	22-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	10.1	<u>Wk Permit</u>	MME020004
<u>Easting</u>	557083	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6299512	<u>Dip</u>	-90	<u>Legal Desc.</u>	NW- 30 -90 - 13 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060044
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	22-Jan-03
<u>Mapsheet</u>	084C16			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>					

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 2.3	ATILL	Ablation Till
2.3 to 10	GFMIXED	Glacio-Fluvial Mixed
10.1	EOH (m)	



Ashton Mining of Canada Inc.
Diamond Drill Hole Summary Log for VSH-03-12

<u>HOLE-ID</u>	VSH-03-12	<u>Start Date</u>	22-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	22-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	8.5	<u>Wk Permit</u>	MME020004
<u>Easting</u>	557848	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6300660	<u>Dip</u>	-90	<u>Legal Desc.</u>	SE - 31 - 90 - 13 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060044
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	22-Jan-03
<u>Mapsheets</u>	084C16			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>					

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 5.2	ATILL	Ablation Till
5.2 to 8.5	GFMIXED	Glacio-Fluvial Mixed
8.5	EOH (m)	



Ashton Mining of Canada Inc. Diamond Drill Hole Summary Log for VSH-03-13

<u>HOLE-ID</u>	VSH-03-13	<u>Start Date</u>	22-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	22-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	8.5	<u>Wk Permit</u>	MME020004
<u>Easting</u>	557748	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6300526	<u>Dip</u>	-90	<u>Legal Desc.</u>	SE - 31 -90 - 13 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060044
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	22-Jan-03
<u>Mapsheet</u>	084C16			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>					

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 4	ATILL	Ablation Till
4 to 6.1	GFMIXED	Glacio-Fluvial Mixed
8.5	EOH (m)	



Ashton Mining of Canada Inc. Diamond Drill Hole Summary Log for VSH-03-14

<u>HOLE-ID</u>	VSH-03-14	<u>Start Date</u>	23-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	23-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	8.5	<u>Wk Permit</u>	MME020004
<u>Easting</u>	557614	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6300350	<u>Dip</u>	-90	<u>Legal Desc.</u>	SE - 31 -90 - 13 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060044
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	23-Jan-03
<u>Mapsheets</u>	084C16			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>					

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 2.7	ATILL	Ablation Till
2.7 to 7.3	GFMIXED	Glacio-Fluvial Mixed
7.3 to 8.5	SILTST	Siltstone
8.5	EOH (m)	



Ashton Mining of Canada Inc.

Diamond Drill Hole Summary Log for VSH-03-15

<u>HOLE-ID</u>	VSH-03-15	<u>Start Date</u>	23-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	23-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	5.5	<u>Wk Permit</u>	MME020004
<u>Easting</u>	557569	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6300290	<u>Dip</u>	-90	<u>Legal Desc.</u>	SE - 31 -90 - 13 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060044
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	23-Jan-03
<u>Mapsheet</u>	084C16			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>					

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 2.4	ATILL	Ablation Till
2.4 to 5.5	GFMIXED	Glacio-Fluvial Mixed
5.5	EOH (m)	



Ashton Mining of Canada Inc.
Diamond Drill Hole Summary Log for VSH-03-16

<u>HOLE-ID</u>	VSH-03-16	<u>Start Date</u>	23-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	23-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	10.1	<u>Wk Permit</u>	MME020004
<u>Easting</u>	559100	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6300940	<u>Dip</u>	-90	<u>Legal Desc.</u>	NE - 32 -90 - 13 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060044
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	23-Jan-03
<u>Mapsheet</u>	084C16			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>					
<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>			
0 to 2.4	ATILL	Ablation Till			
2.4 to 10	GFMIXED	Glacio-Fluvial Mixed			
10.1	EOH (m)				



Ashton Mining of Canada Inc. Diamond Drill Hole Summary Log for VSH-03-17

<u>HOLE-ID</u>	VSH-03-17	<u>Start Date</u>	23-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	23-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	8.5	<u>Wk Permit</u>	MME020004
<u>Easting</u>	559085	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6301500	<u>Dip</u>	-90	<u>Legal Desc.</u>	NE - 32 -90 - 13 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060044
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	23-Jan-03
<u>Mapsheets</u>	084C16			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>					
<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>			
0 to 4.3	ATILL	Ablation Till			
4.3 to 8.5	GFMIXED	Glacio-Fluvial Mixed			
8.5	EOH (m)				



Ashton Mining of Canada Inc. Diamond Drill Hole Summary Log for VSH-03-18

<u>HOLE-ID</u>	VSH-03-18	<u>Start Date</u>	24-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	24-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	7.3	<u>Wk Permit</u>	MME020004
<u>Easting</u>	559100	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6300700	<u>Dip</u>	-90	<u>Legal Desc.</u>	SE - 32 -90 - 13 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060044
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	24-Jan-03
<u>Mapsheets</u>	084C16			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>					

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 7.3	ATILL	Ablation Till
7.3	EOH (m)	



Ashton Mining of Canada Inc.
Diamond Drill Hole Summary Log for VSH-03-19

<u>HOLE-ID</u>	VSH-03-19	<u>Start Date</u>	24-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	24-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	8.5	<u>Wk Permit</u>	MME020004
<u>Easting</u>	559111	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6300537	<u>Dip</u>	-90	<u>Legal Desc.</u>	SE - 32 -90 - 13 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060044
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	24-Jan-03
<u>Mapsheet</u>	084C16			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>					

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 5.5	ATILL	Ablation Till
5.5 to 8.5	GFMIXED	Glacio-Fluvial Mixed
8.5	EOH (m)	



Ashton Mining of Canada Inc.

Diamond Drill Hole Summary Log for VSH-03-20

<u>HOLE-ID</u>	VSH-03-20	<u>Start Date</u>	24-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	24-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	8.5	<u>Wk Permit</u>	MME020004
<u>Easting</u>	559140	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6299490	<u>Dip</u>	-90	<u>Legal Desc.</u>	NE - 29 -90 - 13 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060044
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	24-Jan-03
<u>Mapsheet</u>	084C16			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>					

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 4	ATILL	Ablation Till
4 to 8.5	ATILL	Ablation Till
8.5	EOH (m)	



Ashton Mining of Canada Inc. Diamond Drill Hole Summary Log for VSH-03-21

<u>HOLE-ID</u>	VSH-03-21	<u>Start Date</u>	24-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	24-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	8.5	<u>Wk Permit</u>	MME020004
<u>Easting</u>	559132	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6299818	<u>Dip</u>	-90	<u>Legal Desc.</u>	NE - 29 -90 - 13 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MLM Permit</u>	9396060044
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	24-Jan-03
<u>Mapsheet</u>	084C16			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>					

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 4.3	ATILL	Ablation Till
4.3 to 7.9	GFMIXED	Glacio-Fluvial Mixed
7.9 to 8.5	SILTST	Siltstone
8.5	EOH (m)	



Ashton Mining of Canada Inc.
Diamond Drill Hole Summary Log for VSH-03-22

<u>HOLE-ID</u>	VSH-03-22	<u>Start Date</u>	24-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	24-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	8.5	<u>Wk Permit</u>	MME020004
<u>Easting</u>	559120	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6300165	<u>Dip</u>	-90	<u>Legal Desc.</u>	SE - 32 -90 - 13 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060044
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	24-Jan-03
<u>Mapsheet</u>	084C16			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>					

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 5.5	ATILL	Ablation Till
5.5 to 8.5	GFMIXED	Glacio-Fluvial Mixed
8.5	EOH (m)	



Ashton Mining of Canada Inc. Diamond Drill Hole Summary Log for VSH-03-23

<u>HOLE-ID</u>	VSH-03-23	<u>Start Date</u>	25-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	25-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	5.5	<u>Wk Permit</u>	MME020004
<u>Easting</u>	562859	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6299606	<u>Dip</u>	-90	<u>Legal Desc.</u>	NE - 27 -90 - 13 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060044
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	25-Jan-03
<u>Mapsheets</u>	084B13			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>					
<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>			
0 to 5.5	ATILL	Ablation Till			
5.5	EOH (m)				



Ashton Mining of Canada Inc.

Diamond Drill Hole Summary Log for VSH-03-24

<u>HOLE-ID</u>	VSH-03-24	<u>Start Date</u>	25-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	25-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	8.5	<u>Wk Permit</u>	MME020004
<u>Easting</u>	562415	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6300321	<u>Dip</u>	-90	<u>Legal Desc.</u>	SE - 34 -90 - 13 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060044
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	25-Jan-03
<u>Mapsheets</u>	084B13			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>					

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 8.5	ATILL	Ablation Till
8.5	EOH (m)	



Ashton Mining of Canada Inc.
Diamond Drill Hole Summary Log for VSH-03-25

<u>HOLE-ID</u>	VSH-03-25	<u>Start Date</u>	25-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	25-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	5.5	<u>Wk Permit</u>	MME020004
<u>Easting</u>	562407	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6300750	<u>Dip</u>	-90	<u>Legal Desc.</u>	SE - 34 -90 - 13 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060044
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	25-Jan-03
<u>Mapsheets</u>	084B13			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>					
<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>			
0 to 5.5	TILL	Till			
5.5	EOH (m)				

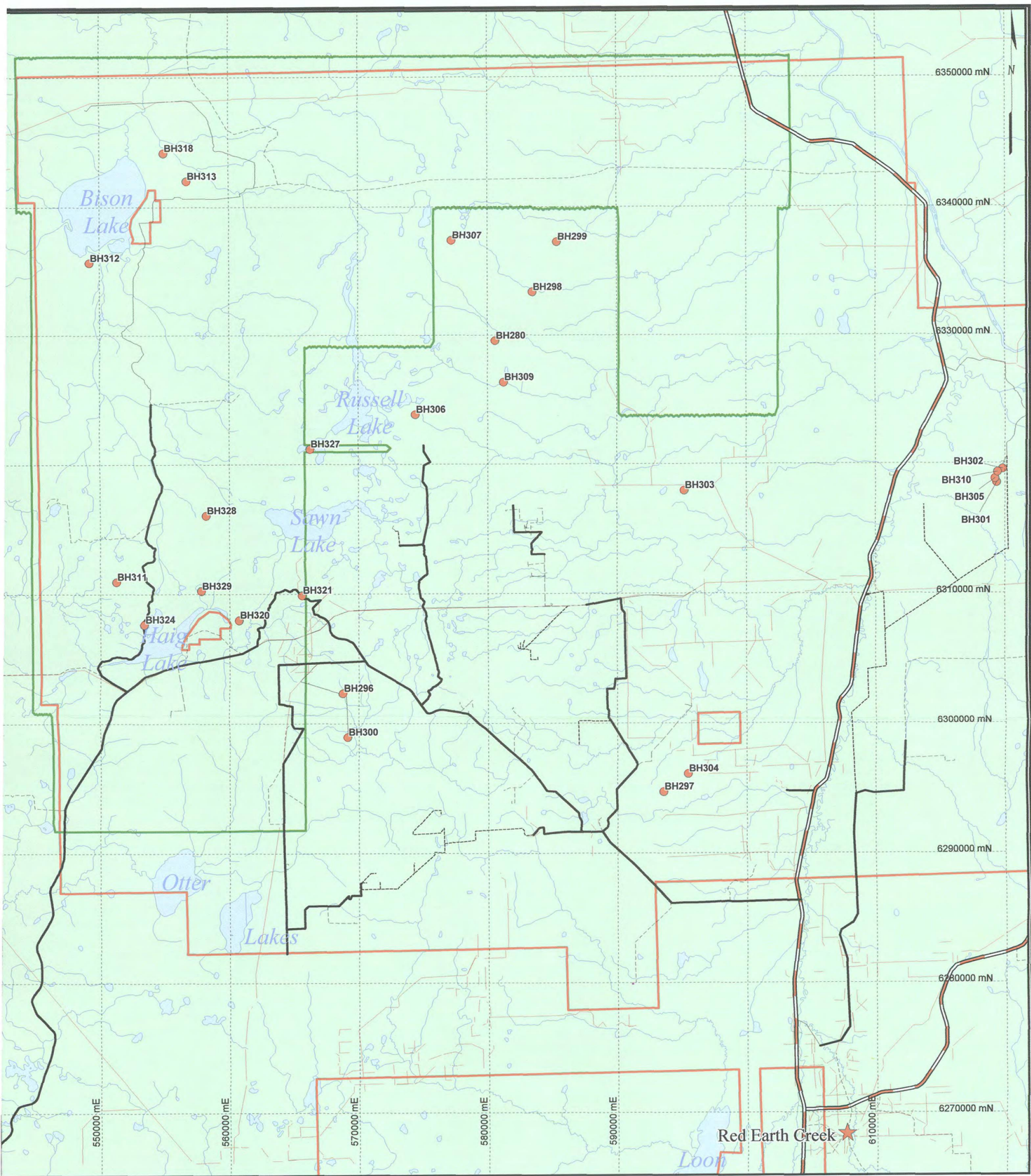


Ashton Mining of Canada Inc.
Diamond Drill Hole Summary Log for VSH-03-26

<u>HOLE-ID</u>	VSH-03-26	<u>Start Date</u>	25-Jan-03	<u>Contractor</u>	Sonitec Drilling Lt
<u>Anomaly</u>	AL01-0236	<u>End Date</u>	25-Jan-03	<u>JV</u>	Buffalo Hil
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	5.5	<u>Wk Permit</u>	MME020004
<u>Easting</u>	562176	<u>Azimuth</u>	0	<u>District</u>	East Peace
<u>Northing</u>	6299640	<u>Dip</u>	-90	<u>Legal Desc.</u>	NE - 27 -90 - 13 - 5
<u>Elevation</u>	833	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060044
<u>UTM Zone</u>	11	<u>Geologist</u>	A. Berry	<u>Date Logged</u>	25-Jan-03
<u>Mapsheet</u>	084B13			<u>Logged by</u>	A. Berry
<u>Purpose</u>	Glacial overburden sampling.				
<u>Comments</u>					
<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>			
0 to 5.5	GFMIXED	Glacio-Fluvial Mixed			
5.5	EOH (m)				

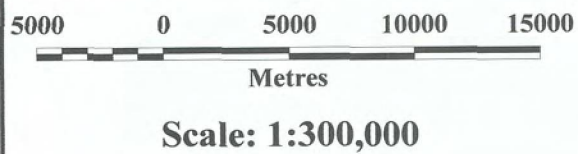
APPENDIX “C” – GEOPHYSICS

- **Airborne & Ground Survey Location Map**
- **Airborne Survey**
- **Magnetic Surveys**
- **Gravity Surveys**
- **Electromagnetic Surveys**
- **CD-Rom (Report, Air & Ground Geophysical Maps)**



Legend

- | | |
|----------------------|-------------------|
| ● Geophysical Target | □ Ashton Property |
| — Highway | □ Airborne Survey |
| — Road | |
| - - - Trail | |
| — Pipeline | |



Ashton Mining of Canada Inc.



Nov. 3, 2004

Author: CC

Proj: UTM11
NAD27

Buffalo Hills, Alberta

**Airborne & Ground
Geophysical Surveys**

J:\4Maps\AB\Anomalies\BH\Selected Anomalies_Grmd_Air.WOR

Airborne Survey

Contractor	Job #	Survey Type	Survey Start	Survey Complete	Line Kilometres
Fugro Airborne	3445	Magnetic & GEOTEM	Sept. 25, 2003	Nov. 2, 2003	10,536.00

Total: 1

10,536.00

Ground Magnetic Surveys

Property Code	Anomaly Number	Survey Completion	Line Kilometres
AB001	BH280	23-Jan-03	4.895
AB001	BH296	31-Oct-02	18.5
AB001	BH300	30-Oct-02	7.45
AB001	BH301	02-Nov-02	6.6
AB001	BH305	02-Nov-02	6.6
AB001	BH324	23-Jan-04	2.5

Total: 6 46.545

Ground Gravity Surveys

Property Code	Anomaly Number	Survey Completion	Line Kilometres
AB001	BH280	24-Jan-03	13.8
AB001	BH296	26-Jan-03	1.5
AB001	BH300	15-Mar-03	10.5
AB001	BH313	24-Aug-04	2.15
AB001	BH318	20-Aug-04	1.85
AB001	BH320	04-Sep-04	2.1
AB001	BH328	29-Aug-04	1.6
AB001	BH329	31-Aug-04	1.85

Total: 8 35.35

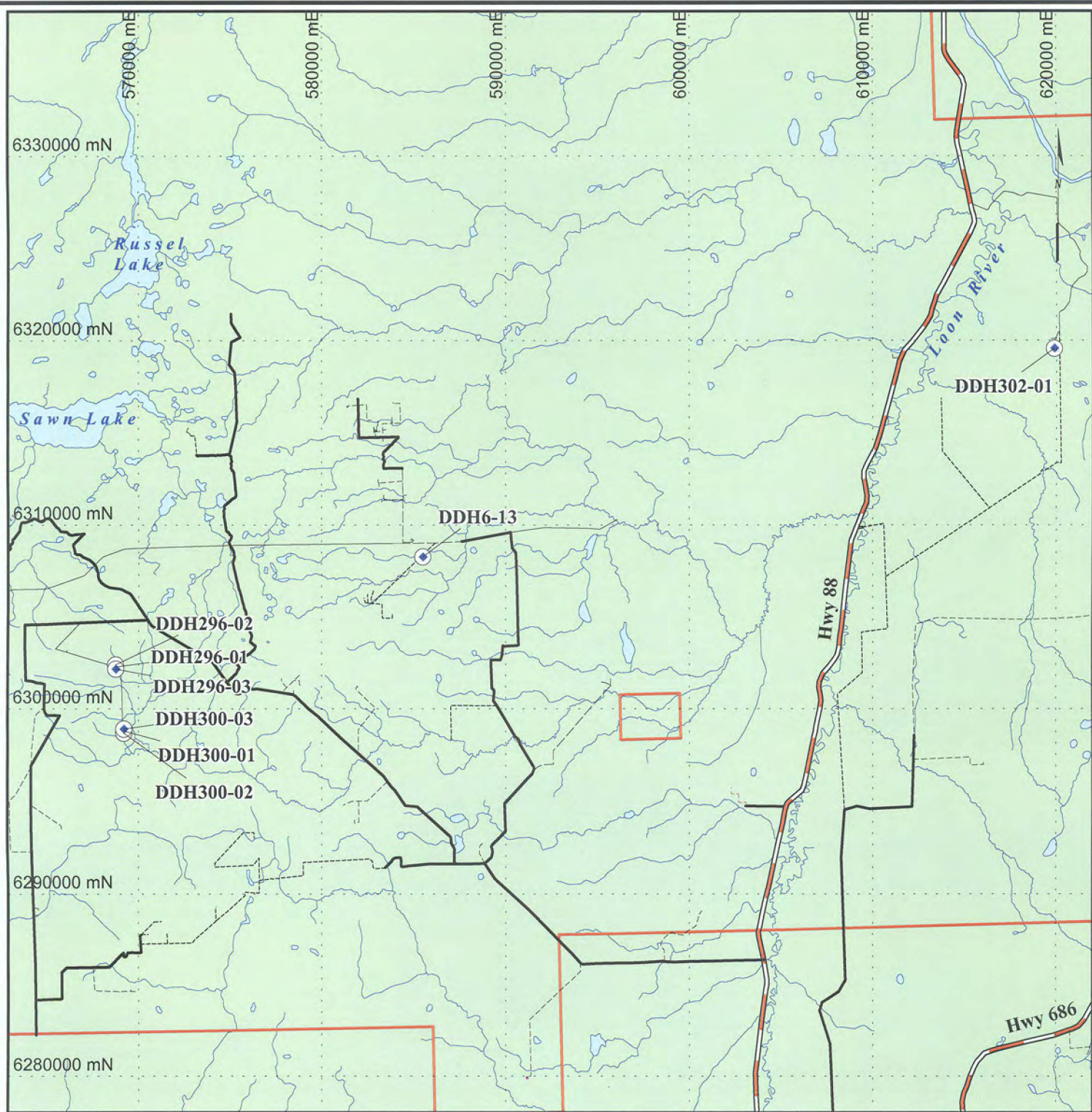
Ground TDEM Surveys

Property Code	Anomaly Number	Survey Completion	Line Kilometers
AB001	BH280	30-Oct-02	6.55
AB001	BH296	19-Oct-02	4.8
AB001	BH297	10-Oct-02	2.8
AB001	BH298	4-Oct-02	4.5
AB001	BH299	2-Oct-02	3.8
AB001	BH300	17-Oct-02	7.6
AB001	BH301	27-Oct-02	3.55
AB001	BH302	22-Oct-02	4.95
AB001	BH303	12-Oct-02	5.35
AB001	BH304	11-Oct-02	1.775
AB001	BH305	29-Oct-02	3.4
AB001	BH306	14-Oct-02	2.3
AB001	BH307	8-Oct-02	2.85
AB001	BH309	7-Oct-02	1.75
AB001	BH310	24-Oct-02	3.65
AB001	BH311	9-Feb-04	1.3
AB001	BH312	28-Jan-04	1.6
AB001	BH313	2-Feb-04	3.125
AB001	BH318	24-Jan-04	2.15
AB001	BH320	7-Feb-04	2.4
AB001	BH321	3-Feb-04	0.7
AB001	BH327	16-Feb-04	2.3
AB001	BH328	11-Feb-04	2
AB001	BH329	13-Feb-04	2.3

Total: 24 77.5

APPENDIX “D” – DRILLING

- **Drill Hole Location Map**
- **Drill Hole Summary Logs**
- **Drill Hole Cross Sections**
- **Microdiamond Results**



5 0 5 10 15

Kilometers
Scale: 1:300,000



Legend

- Highway
- Road
- Trail
- Diamond drill hole
- Property boundary

Ashton Mining of Canada Inc.



Oct. 15, 2004

Author: CC

Proj: UTM12
NAD27

**Buffalo Hills, Alberta
Diamond Drilling Locations**

J:\Maps\AB\Drilling\BH\Assessment\



Ashton Mining of Canada Inc.

Diamond Drill Hole Summary Log for DDH296-01

<u>HOLE-ID</u>	DDH296-01	<u>Start Date</u>	22-Jan-03	<u>Contractor</u>	Connors Drilling
<u>Anomaly</u>	BH296	<u>End Date</u>	30-Jan-03	<u>JV</u>	ABDiamondJV
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	61.9	<u>Wk Permit</u>	MME-020012
<u>Easting</u>	568757	<u>Azimuth</u>	0	<u>District</u>	NWBoreal,Lslave
<u>Northing</u>	6302291	<u>Dip</u>	-90	<u>Legal Desc.</u>	91 - 12 -sw - 4 - 5
<u>Elevation</u>	750	<u>Core Size</u>	HQ	<u>MIM Permit</u>	9396060051
<u>UTM Zone</u>	11	<u>Geologist</u>	D. Skelton	<u>Date Logged</u>	30-Jan-03
<u>Mapsheets</u>	084B13			<u>Logged by</u>	L.Boyer and A.Henry

Purpose tdem anomaly

Comments Hole closed due to H2S gas. Gas pocket at 190-193ft. 6,000 liters of cement down hole.

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 29.9	TILL	Till
29.9 to 54.1	MUDST	Mudstone
54.1 to 61.9	JLOVK	Juvenile Lapilli and Olivine-Bearing Volcaniclastic Kimberlite
61.9	EOH (m)	



Ashton Mining of Canada Inc. Diamond Drill Hole Summary Log for DDH296-02

<u>HOLE-ID</u>	DDH296-02	<u>Start Date</u>	31-Jan-03	<u>Contractor</u>	Connors Drilling
<u>Anomaly</u>	BH297	<u>End Date</u>	05-Feb-03	<u>JV</u>	ABDiamndJV
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	248.2	<u>Wk Permit</u>	MME-020012
<u>Easting</u>	568745	<u>Azimuth</u>	0	<u>District</u>	NWBoreal,Lslave
<u>Northing</u>	6302406	<u>Dip</u>	-90	<u>Legal Desc.</u>	91 - 12 sw - 4 - 5
<u>Elevation</u>	750	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060051
<u>UTM Zone</u>	11	<u>Geologist</u>	D. Skelton	<u>Date Logged</u>	05-Feb-03
<u>Mapsheet</u>	084B13			<u>Logged by</u>	L.Boyer and A.Henry
<u>Purpose</u>	tdem anomaly				
<u>Comments</u>	Gas pockets - methane.				

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 47.4	TILL	Till
47.4 to 54.9	MUDST	Mudstone
54.9 to 58.2	MUDSTK	Mudstone with Kimberlite
58.2 to 80.5	JLOVK	Juvenile Lapilli and Olivine-Bearing Volcaniclastic Kimberlite
80.5 to 85.6	MUDST	Mudstone
85.6 to 248.2	JLOVK	Juvenile Lapilli and Olivine-Bearing Volcaniclastic Kimberlite
248.2	EOH (m)	



Ashton Mining of Canada Inc. Diamond Drill Hole Summary Log for DDH296-03

<u>HOLE-ID</u>	DDH296-03	<u>Start Date</u>	06-Feb-03	<u>Contractor</u>	Connors Drilling
<u>Anomaly</u>	BH298	<u>End Date</u>	07-Feb-03	<u>JV</u>	ABDiamondJV
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	195.4	<u>Wk Permit</u>	MME-020012
<u>Easting</u>	568754	<u>Azimuth</u>	0	<u>District</u>	NWBoreal,Lslave
<u>Northing</u>	6302169	<u>Dip</u>	-90	<u>Legal Desc.</u>	91 - 12 -sw - 4 - 5
<u>Elevation</u>	750	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060051
<u>UTM Zone</u>	11	<u>Geologist</u>	D. Skelton	<u>Date Logged</u>	07-Feb-03
<u>Mapsheets</u>	084B13			<u>Logged by</u>	L.Boyer and A.Henry
<u>Purpose</u>	tdem anomaly				
<u>Comments</u>					

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 36.3	TILL	Till
36.3 to 52.7	MUDST	Mudstone
52.7 to 108.2	JLOVK	Juvenile Lapilli and Olivine-Bearing Volcaniclastic Kimberlite
108.2 to 164	MUDST	Mudstone
164 to 181.1	SANDST	Sandstone
181.1 to 195.4	MUDST	Mudstone
195.4	EOH (m)	



Ashton Mining of Canada Inc. Diamond Drill Hole Summary Log for DDH300-01

<u>HOLE-ID</u>	DDH300-01	<u>Start Date</u>	10-Feb-03	<u>Contractor</u>	Connors Drilling
<u>Anomaly</u>	BH300	<u>End Date</u>	12-Feb-03	<u>JV</u>	ABDiamondJV
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	199.4	<u>Wk Permit</u>	MME-020012
<u>Easting</u>	569198	<u>Azimuth</u>	0	<u>District</u>	NWBoreal,Lslave
<u>Northing</u>	6298803	<u>Dip</u>	-90	<u>Legal Desc.</u>	90 - 12 - se - 29 - 5
<u>Elevation</u>	720	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060043
<u>UTM Zone</u>	11	<u>Geologist</u>	D. Skelton	<u>Date Logged</u>	13-Feb-03
<u>Mapsheet</u>	084B13			<u>Logged by</u>	L.Boyer and A.Henry
<u>Purpose</u>	tdem anomaly				
<u>Comments</u>					

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 25.3	TILL	Till
25.3 to 41.6	MUDST	Mudstone
41.6 to 89.3	JLOVK	Juvenile Lapilli and Olivine-Bearing Volcaniclastic Kimberlite
89.3 to 130.5	MUDST	Mudstone
130.5 to 131.4	OVK	Volcaniclastic Olivine Kimberlite
131.4 to 199.4	MUDST	Mudstone
199.4	EOH (m)	



Ashton Mining of Canada Inc. Diamond Drill Hole Summary Log for DDH300-02

<u>HOLE-ID</u>	DDH300-02	<u>Start Date</u>	08-Feb-03	<u>Contractor</u>	Connors Drilling
<u>Anomaly</u>	BH301	<u>End Date</u>	09-Feb-03	<u>JV</u>	ABDiamondJV
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	175	<u>Wk Permit</u>	MME-020012
<u>Easting</u>	569199	<u>Azimuth</u>	0	<u>District</u>	NWBoreal,Lslave
<u>Northing</u>	6298697	<u>Dip</u>	-90	<u>Legal Desc.</u>	90 - 12 - se - 29 - 5
<u>Elevation</u>	720	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060043
<u>UTM Zone</u>	11	<u>Geologist</u>	D. Skelton	<u>Date Logged</u>	09-Feb-03
<u>Mapsheet</u>	084B13			<u>Logged by</u>	L.Boyer and A.Henry
<u>Purpose</u>	tdem anomaly				
<u>Comments</u>					

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 38.4	TILL	Till
38.4 to 58.2	MUDST	Mudstone
58.2 to 59.5	MUDSTK	Mudstone with Kimberlite
59.5 to 175	MUDST	Mudstone
175	EOH (m)	



Ashton Mining of Canada Inc.
Diamond Drill Hole Summary Log for DDH300-03

<u>HOLE-ID</u>	DDH300-03	<u>Start Date</u>	01-Feb-03	<u>Contractor</u>	Connors
<u>Anomaly</u>	BH302	<u>End Date</u>	15-Feb-03	<u>JV</u>	ABDiamondJV
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	175	<u>Wk Permit</u>	MME-020012
<u>Easting</u>	569198	<u>Azimuth</u>	0	<u>District</u>	NWBoreal,Lslave
<u>Northing</u>	6298911	<u>Dip</u>	-90	<u>Legal Desc.</u>	90 - 12 - se - 29 - 5
<u>Elevation</u>	720	<u>Core Size</u>	NQ	<u>MIM Permit</u>	9396060043
<u>UTM Zone</u>	11	<u>Geologist</u>	D. Skelton	<u>Date Logged</u>	15-Feb-03
<u>Mapsheet</u>	084B13			<u>Logged by</u>	L.Boyer and A.Henry
<u>Purpose</u>	tdem anomaly				
<u>Comments</u>					

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 24.1	TILL	Till
24.1 to 34.8	MUDST	Mudstone
34.8 to 39.5	MUDSTK	Mudstone with Kimberlite
39.5 to 95.4	JLOVK	Juvenile Lapilli and Olivine-Bearing Volcaniclastic Kimberlite
95.4 to 109.5	MUDST	Mudstone
109.5 to 109.9	OVK	Volcaniclastic Olivine Kimberlite
109.9 to 175	MUDST	Mudstone
175	EOH (m)	



Ashton Mining of Canada Inc. Diamond Drill Hole Summary Log for DDH302-01

<u>HOLE-ID</u>	DDH302-01	<u>Start Date</u>	22-Feb-03	<u>Contractor</u>	Connors Drilling
<u>Anomaly</u>	BH302	<u>End Date</u>	25-Feb-03	<u>JV</u>	ABDiamondJV
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	168.9	<u>Wk Permit</u>	MME-020011
<u>Easting</u>	619871	<u>Azimuth</u>	0	<u>District</u>	NWBoreal,Lslave
<u>Northing</u>	6319547	<u>Dip</u>	-90	<u>Legal Desc.</u>	92 - 7 - se - 27 - 5
<u>Elevation</u>	490	<u>Core Size</u>	HQ/NQ	<u>MIM Permit</u>	
<u>UTM Zone</u>	11	<u>Geologist</u>	D. Skelton	<u>Date Logged</u>	25-Feb-03
<u>Mapsheet</u>	084G03			<u>Logged by</u>	L.Boyer and A.Henry
<u>Purpose</u>	tdem anomaly				
<u>Comments</u>	Poor recovery throughout hole due to washed away poorly consolidated sandy sections.				

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 105.2	TILL	Till
105.2 to 168.9	MUDST	Mudstone
168.9	EOH (m)	

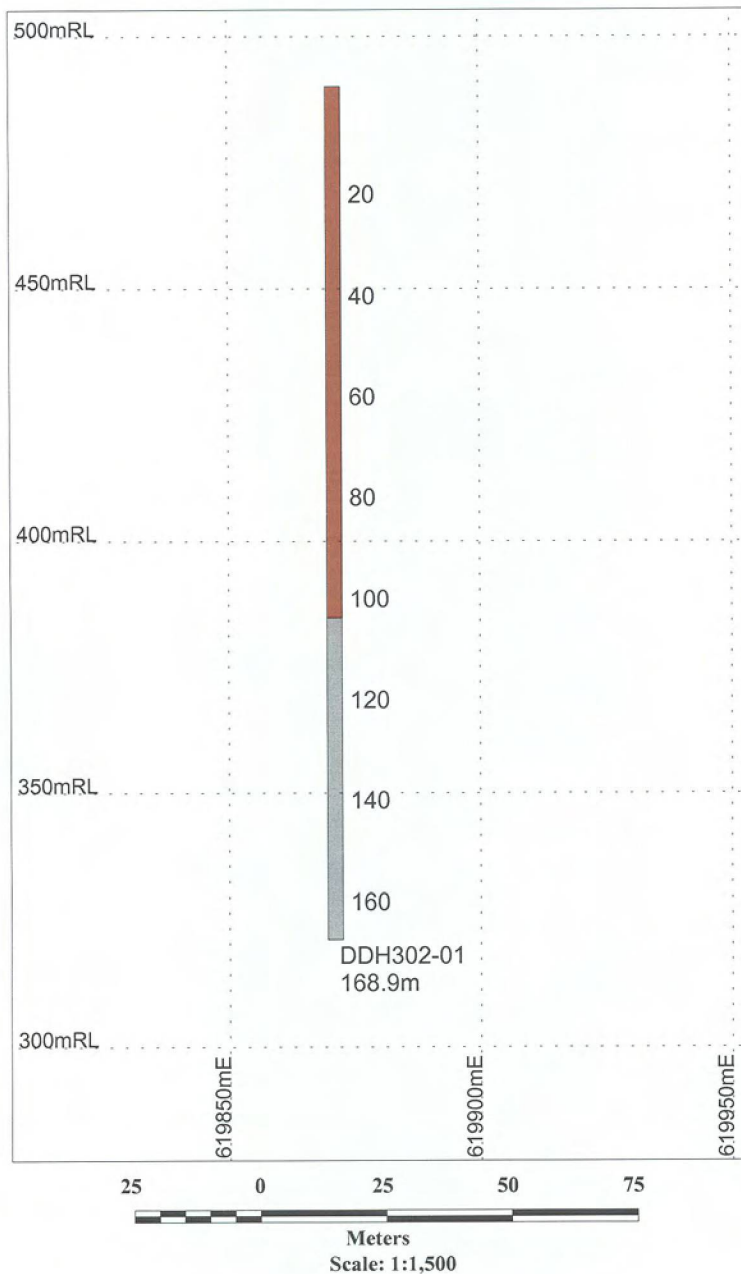


Ashton Mining of Canada Inc.

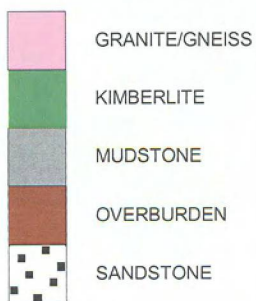
Diamond Drill Hole Summary Log for DDH6-13

<u>HOLE-ID</u>	DDH6-13	<u>Start Date</u>	16-Feb-03	<u>Contractor</u>	Connors Drilling
<u>Anomaly</u>	K006	<u>End Date</u>	19-Feb-03	<u>JV</u>	ABDiamondJV
<u>Property</u>	BUFFALO HILLS	<u>Length (m)</u>	251.2	<u>Wk Permit</u>	MME-020012
<u>Easting</u>	585497	<u>Azimuth</u>	0	<u>District</u>	NWBoreal,Lslave
<u>Northing</u>	6308277	<u>Dip</u>	-90	<u>Legal Desc.</u>	15 - 19 -91 - 10 - 5
<u>Elevation</u>	574	<u>Core Size</u>	HQ/NQ	<u>MIM Permit</u>	9396060049
<u>UTM Zone</u>	11	<u>Geologist</u>	D. Skelton	<u>Date Logged</u>	19-Feb-03
<u>Mapsheet</u>	084B13			<u>Logged by</u>	L.Boyer and A.Henry
<u>Purpose</u>	tdem anomaly				
<u>Comments</u>	Hit water at 138.4m				

<u>Interval</u>	<u>Rock Type</u>	<u>Description</u>
0 to 50.3	TILL	Till
50.3 to 251.2	JLOVK	Juvenile Lapilli and Olivine-Bearing Volcaniclastic Kimberlite
251.2	EOH (m)	



Rock Category Legend



Ashton Mining of Canada Inc.



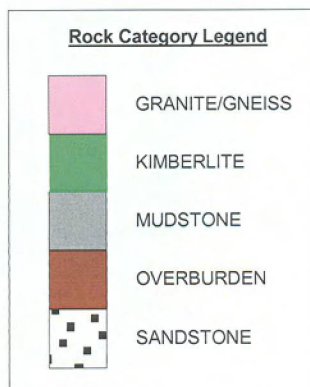
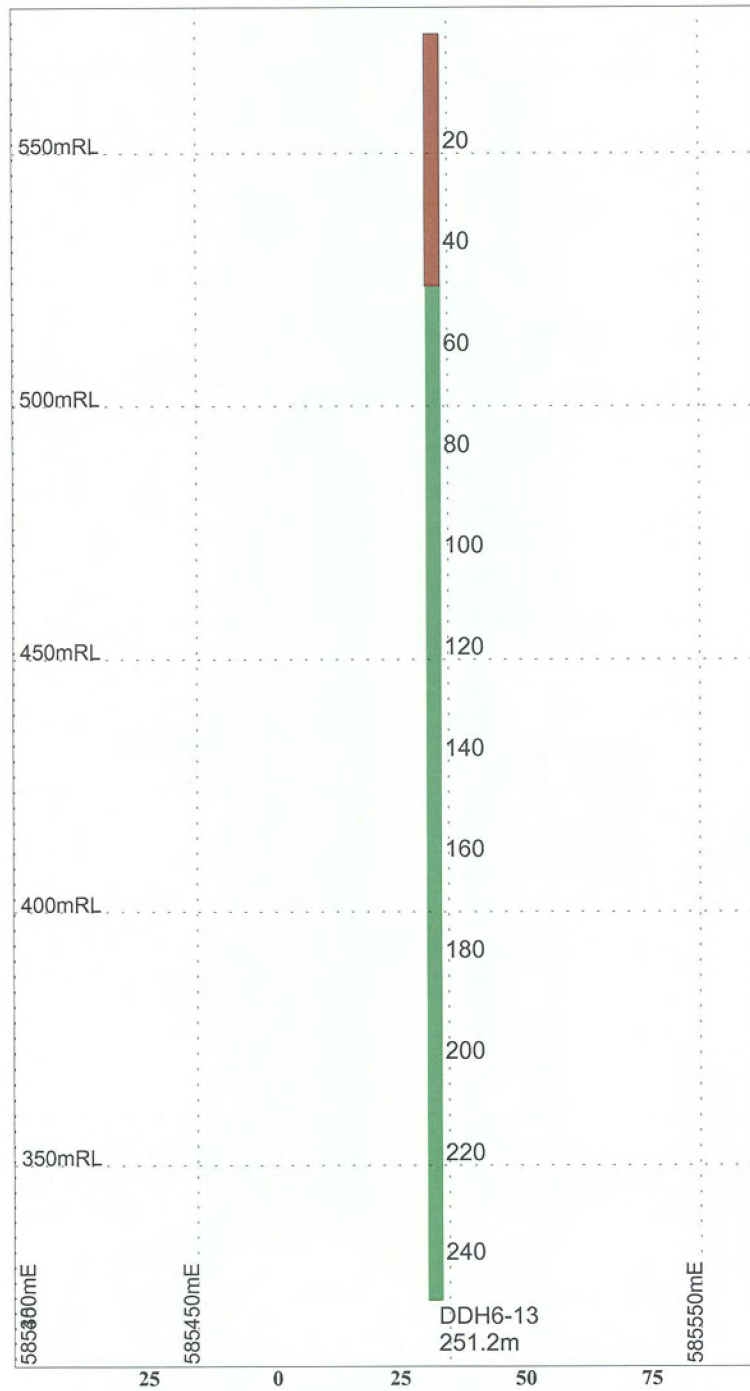
Oct. 15, 2004


Author: CC

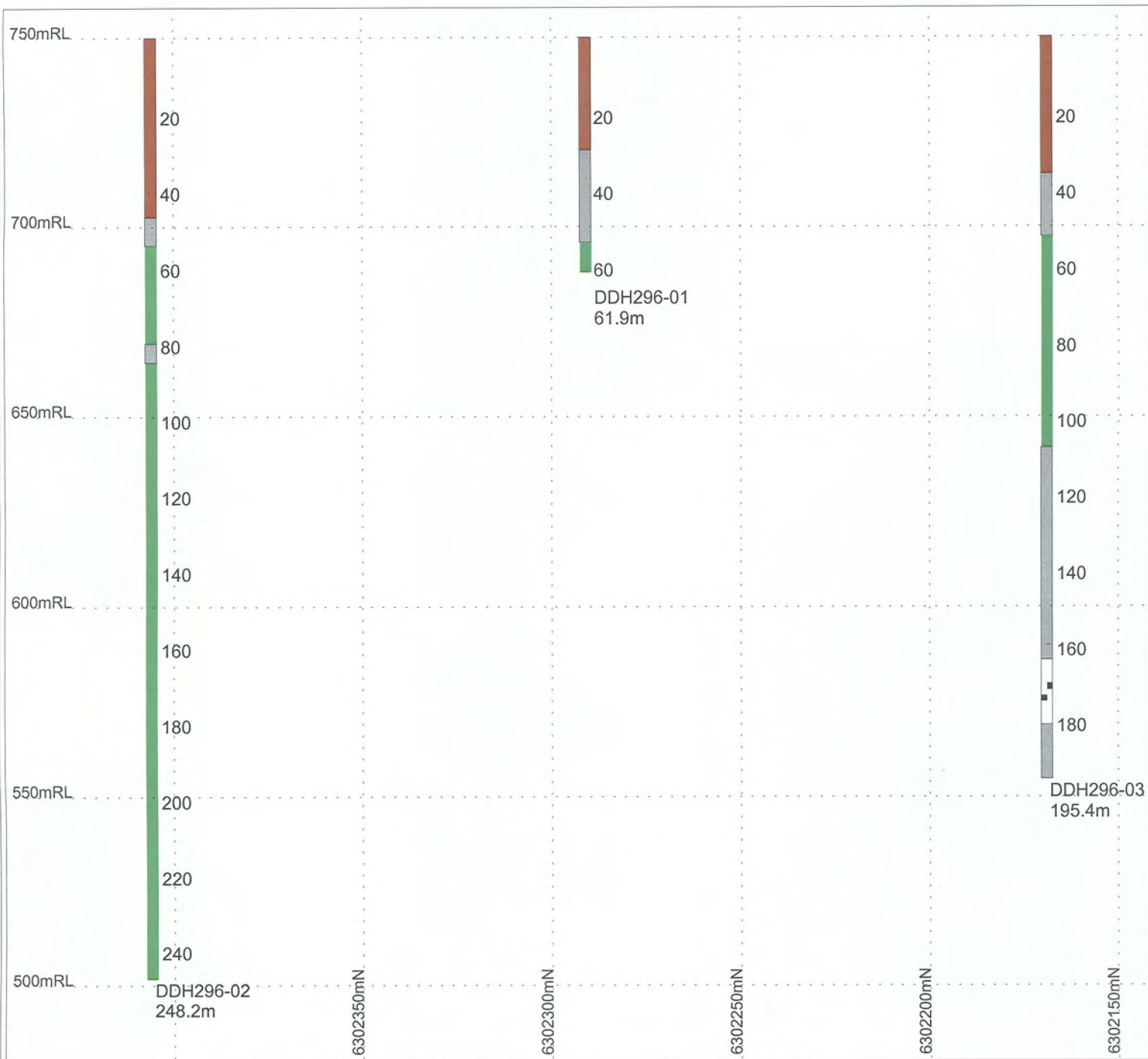
Proj: UTM12
NAD27

**Buffalo Hills, Alberta
DDH302-01 Drill Section**

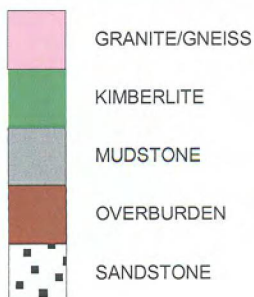
J:\4Maps\AB\Drilling\BHA\Assessment\DrillSections WOR



Ashton Mining of Canada Inc.	
	Buffalo Hills, Alberta DDH6-13 Drill Section
Oct. 15, 2004	
Author: CC	
Proj: UTM12 NAD27	
J:\4Maps\AB\Drilling\BH\Assessment\DrillSections.WOR	



Rock Category Legend



Ashton Mining of Canada Inc.



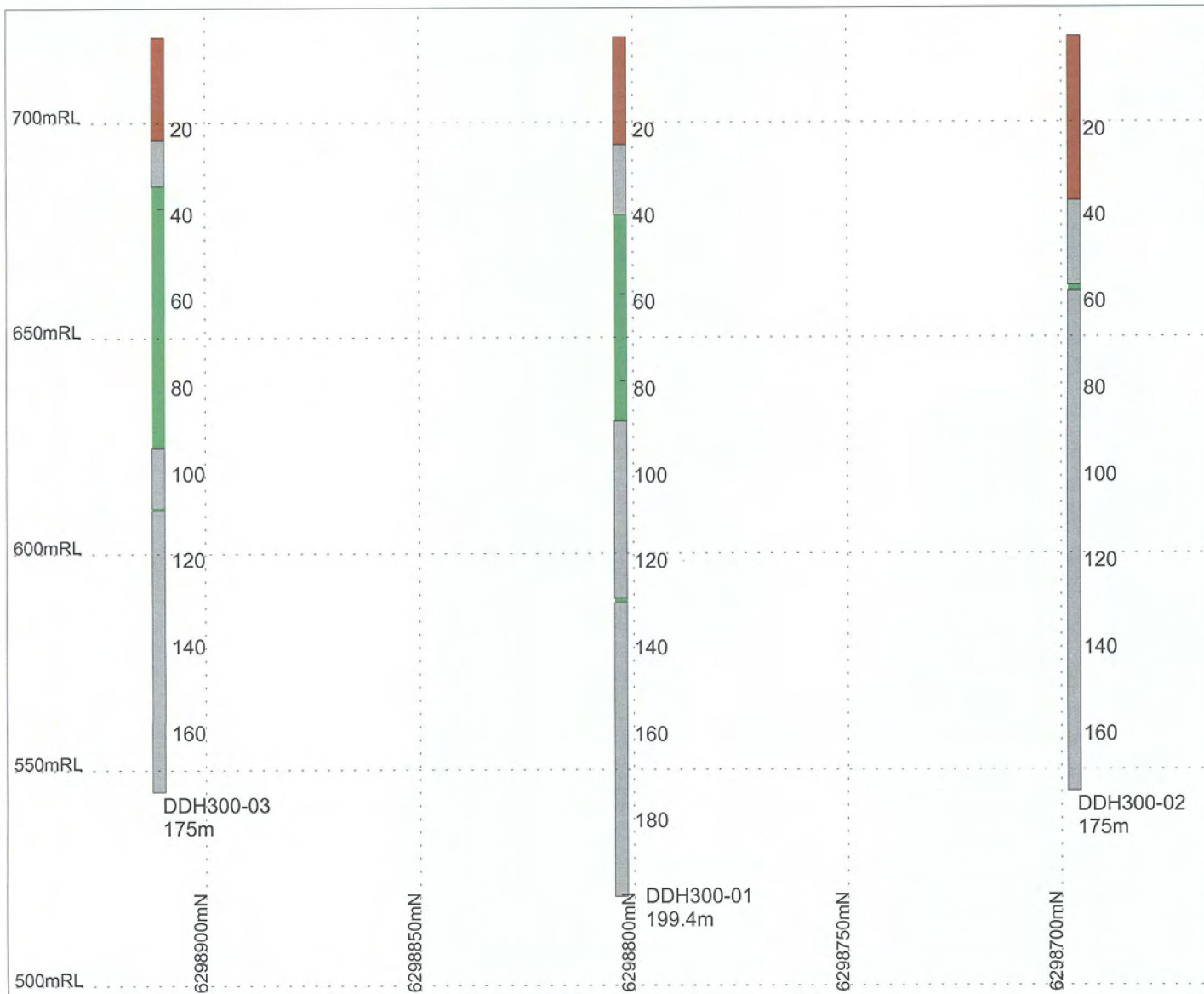
Oct. 15, 2004

Author: CC

Proj: UTM12
NAD27

Buffalo Hills, Alberta
DDH296-01, 02, 03 Drill Sections

J:\4Maps\AB\Drilling\BH\Assessment\DrillSections.WOR

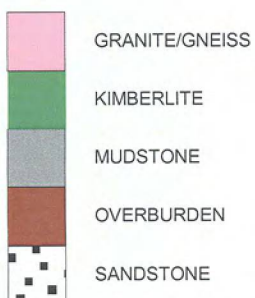


25 0 25 50 75



Meters
Scale: 1:1,500

Rock Category Legend



Ashton Mining of Canada Inc.



Oct. 15, 2004

Author: CC

Proj: UTM12
NAD27

Buffalo Hills, Alberta
DDH300-01, 02, 03 Drill Sections

J:\4Maps\AB\Drilling\BH\Assessment\DrillSections.WOR

MICRODIAMOND RESULTS

Ashton Mining of Canada Inc. Laboratory - North Vancouver, British Columbia

<i>Pipe</i>	<i>Drill Hole</i>	<i>Sample Number</i>	<i>Lab</i>	<i>Date Reported</i>	<i>Interval (m)</i>	<i>Sample Wt. (kg)</i>	<i>Number of Stones -0.5mm ≥ 0.5 mm</i>	
K6	DDH6-13	13556	AMC	27-May-03	51.8 - 63.6	51.8	13	0
	DDH6-13	13557	AMC	27-May-03	102.9 - 115.7	51.4	4	0
	DDH6-13	13558	AMC	27-May-03	158.5 - 180.1	51.2	18	0
	DDH6-13	13559	AMC	27-May-03	223.7 - 251.2	53.2	21	0
	DDH6-13	13560	LRL	27-May-03	80.6 - 93.05	52.5	62	0
	DDH6-13	13561	AMC	27-May-03	136.3 - 148.8	50.5	8	0
	DDH6-13	13562	AMC	27-May-03	201.45 - 223.7	50.7	15	0
K6	total					361.3	141	0
K300	DDH300-01	13840	AMC	17-Apr-03	41.75 - 60.45	34.8	14	0
	DDH300-01	13841	AMC	17-Apr-03	60.45 - 78.00	34.4	10	0
	DDH300-01	13842	AMC	17-Apr-03	78.00 - 89.30	24.8	4	0
	DDH300-03	13843	AMC	17-Apr-03	39.50 - 51.37	25.8	12	0
	DDH300-03	13844	AMC	17-Apr-03	51.37 - 80.65	36.4	11	0
	DDH300-03	13845	LRL	27-May-03	51.37 - 80.65	37.4	67	0
	DDH300-03	13846	AMC	17-Apr-03	80.65 - 95.40	14.6	3	0
K300	total					208.2	121	0
K296	DDH296-03	13550	AMC	15-May-03	55.38 - 82.30	60.0	11	0
	DDH296-03	13551	AMC	15-May-03	82.30 - 108.20	59.4	7	0
	DDH296-02	13552	AMC	15-May-03	56.69 - 80.16	53.6	21	0
	DDH296-02	13553	AMC	15-May-03	85.50 - 109.37	45.6	63	2
	DDH296-02	13554	LRL	27-May-03	140.0 - 168.55	49.0	50	0
	DDH296-02	13555	AMC	15-May-03	168.55 - 196.20	56.4	21	0
K296	total					324.0	173	2