DRILLING REPORT

On The

EXPO 1985 A and B Groups

NTS 92L12

Work Filed: September 11, 1985

UTAH MINES LTD.

Vancouver, B.C.

J.B. Richards

H.R. Muntanian

9/86

14058

85-516
14058

Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S)	TOTAL COST
Drilling	135,817.62

AUTHOR(S) J. B. Richards, P. Eng. SIGNATURE(S) J. B. Richards
H. R. Muntanion H. R. Muntanion

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED Sept. 11, 1985 YEAR OF WORK 1985

PROPERTY NAME(S) Expo

COMMODITIES PRESENT Au, Cu

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN

MINING DIVISION Nanaimo NTS 92L12W

LATITUDE 50°40' N LONGITUDE 127°51' W

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property [Examples: TAX 1-4, FIRE 2 (12 units); PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Certified Mining Lease ML 12 (claims involved)]:

Expo 1-1015, Don Fr. 1-16, HEP 1-101, Pemberton 1-67
T1-4

OWNER(S)

(1) Utah Mines Ltd. (2)

MAILING ADDRESS

1600 - 1050 W. Pender Street
Vancouver, B. C. V6E 3S7

OPERATOR(S) (that is, Company paying for the work)

(1) Utah Mines Ltd. (2)

MAILING ADDRESS

1600 - 1050 W. Pender Street

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):

Lower Jurassic Bonanza Volcanics, largely andesitic pyroclastics have been strongly clay altered with displaced silica being deposited as a cap.

Geochemically anomalous gold and arsenic values in surface rocks were thought to overlie a potential ore zone. No economic concentrations were found.

REFERENCES TO PREVIOUS WORK

(over)

85-818

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ILLUSTRATIONS

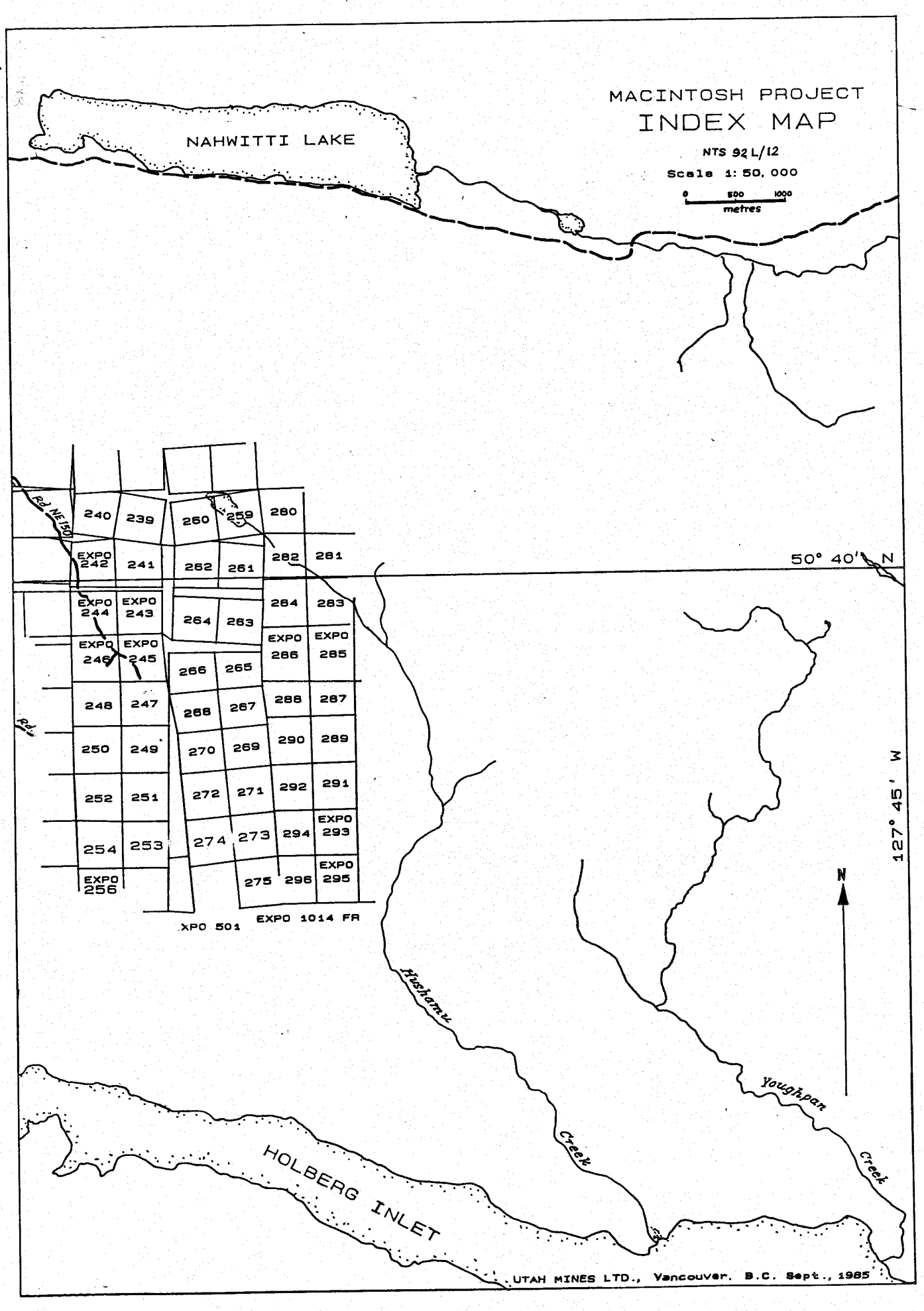
INTRODUCTION

Location and Access

The property is centered on a 696 m hill 11 km east of Holberg. It lies within Western Forest Products Ltd, Tree Farm License No. 6. Access is by way of Western Forest Products Ltd. logging roads, NE 150 from Holberg, and Hushamu Main from Coal Harbour to the drilling area. Drill site access was by helicopter. See Index Map on following page.

Property Definition

The McIntosh Project is a volcanogenic gold search encompassing some 28 claims that is part of the much larger Expo Claim group of approximately 600 units. McIntosh Mtn. and the south McIntosh area occupy the upper portion of the same mineral system that forms the Hushamu copper porphyry mineral zone in the Hushamu Creek valley about 1 km to the north. The south slope of McIntosh Mtn. is an approximate dip slope, with all drill collars at about the same stratigraphic position, 300 m above the porphyry zone. The zone around Hushamu Lake has been extensively drilled, 72 holes between 1969 and 1982, with one hole, EC 86 having been drilled in the area of the present gold search in 1973. The highly siliceous volcanics on the top of McIntosh were recommended as a potential gold target in 1980 and a program of surface rock geochem was initiated which outlined an area of anomalous gold and arsenic.


MACINTOSH PROJECT
INDEX MAP
NTS 92 L/12
Scale 1: 50, 000
0 500 1000
metres
NAHWITTI LAKE
Rd. NE 150
240
239
260
259
280
EXPO 242
241
262
261
282
281
50° 40' N
EXPO 244
EXPO 243
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263
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283
EXPO 246
EXPO 245
EXPO 286
EXPO 285
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EXPO 293
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253
274
273
294
EXPO 256
275
296
EXPO 295
XPO 501
EXPO 1014 FR
Hushamu Creek
Youghpan Creek
127° 45' W
N
HOLBERG INLET
UTAH MINES LTD., Vancouver, B.C. Sept., 1985

The 1985 program consisted of 6 diamond drill holes, 4 on the south slope and 2 on the top of the mountain, totalling 970.2 meters. Results were uniformly negative. No gold values better than the surface geochem were intersected in any drill hole, and most were at background.

DRILLING PROGRAM

The drilling program was executed by Longyear Canada Ltd. on a contract basis with helicopter and camp costs included in the contract. The drill unit used was a "Longyear 38" equiped for helicopter moves. NQ tools were used for all drilling except the bottom 67. m in EC 153 which were drilled with BQ to get past a fault.

The core was logged by J.B. Richards and H.R. Muntanion on the "GEOLOG" coding forms so that geologic data could be quantified and digitized for computer processing. GEOLOG is a proprietary system invented by International Geosystems Ltd. of Vancouver, BC. To assist in mineral and rock identification, thin sections were cut from all holes and specimes sent for X-ray diffraction identification of clay minerals. All results are included in the drill logs. The core was split length ways, usually in 5 foot = 1.52 m samples for assay. Not all core was sampled. The core is stored at Isaland Copper near Port Hardy.

Samples were assayed for gold, silver, copper, molybdenum and iron at Island Copper Ltd. at Port Hardy. In addition, some samples were analyzed for tellurium, arsenic, antimony, lead, zinc, bismuth and

manganese by Acme Analytical Laboratories of Vancouver. Selected samples were also analyzed by Acme for major element oxides in a whole rock suit. All assays are included in the assay logs with the geologic logs. Drill hle location are shown on Plate 1.

Discussion

The area of interest is underlain by Jurassic Age Bonanza volcanics which consists of an andesitic sequence of flows, agglomerates and pyroclastics. Pyroclastics predominates with fragments ranging in size from breccia tuff (10 cm) to dust tuff (.1 mm). Multiple stages of brecciation are recognized with breccia fragments containing other sizes of fragmental. Strong hydrothermal alteration has in many areas almost totally destroyed the original rock fabric.

The objective of the program was to test the hypothesis that the silica alteration zones on McIntosh Mtn. were part of a system such as Pueblo Viejo in the Dominican Republic (Kessler et al, 1981) in which gold mineralization lies under a silica cap at and below the contact with a strong advanced argillic zone. Results indicate that although a hot vapour plume was present, the overall system was much smaller than Pueblo Viejo. This conclusion is based on holes EC 154 and 155,

passed from silica cap into a pyrophyllite-bearing advanced argillic alteration zone believed to be near the centre of the system. The adjacent holes EC 150 to 153 intersected a lower temperature argillic alteration assemblage consisting predominately of dickite and kaolinite beneath the silical cap. The presence of sporadic alunite suggest that the argillic zone is transitional to advanced argillic and that the south McIntosh area is at the edge of the convection all/vapour plume system.

In as much as the gold grades encountered in the holes were too low to be of interest and the target area much restricted by geology, we conclude that there is little potential for a significant gold deposit in the target area. Complete geologic and assay logs are attached as Appendix C.

REFERENCES

Kessler, S.E., Russell, N., Seward, M., Rivera, J., McCurdy, K., Cumming, G.L., and Sutter, J.F., 1981 Geology and Geolchemistry of sulfide minearlizaion underlying the Pueblo Viejo gold-silver oxide deposit, Dominican Republic: Econ. Geol., V76, P 1096 - 1117.

APPENDIX A

STATEMENT OF QUALIFICATIONS

J.B. Richards, Senior Geologist for Utah Mines Ltd., Vancouver, BC
B.A.Sc., Univerisity of British Columbia, 1970.
Registered as P. Eng., B.C., 1973, Geolgical. Continuosly employed as an exploration geologist from 1970 to 1985 for various employers in B.C., Yukon, Washington and Costa Rica.

1973 to 1978 - Geologist for Equity Mining, developing Sam Goosly Deposit.

1980 to 1985 - Senior Geologist, Utah Mines in Vancouver on various development projects.

H.R. Muntanion, Project Geologist for Utah Mines Ltd., Vancouver, BC

Completed B.Sc. in 1970 at the University of Manitoba; employed by: Canadian Nickel Co. in the summers of 1969 and 1971 as a student and field geologist, respectively; Amax, Vancouer, B.C. during the summer of 1970 as a geological asistant in teh yukon; The Manitoba Mines Branch during the 1972 field season as a field geologist; Hudson Bay Oil and Gas Ltd., Toronto, Ontario during May to December, 1973 as a temporary geologist; Mindeco Ltd., Lusaka, Zambia from may 1974 to may 1977 as a geologist; Canadian International Development Agency, Ottawa, Ontario ffrom August, 1977 to December, 1979 as geologist in Malaysia; Utah Mins Ltd. from April, 1980 to present under the supervision of D.N. leNobel, P. Eng.

APPENDIX B

STATEMENT OF COSTS

Drilling Costs 970.2 m @ $115.11/m	$111,677.18
Vehicle, 35 days @ $50.00/day	1,750.00
Geologist	
H. Muntanion	
August 25 to May 27 - 33 days	
August 26 to Sept 1 - 7 days	
40 days @ $213.04/day	8,521.60
J.B. Richards	
May 27 to May 30 4 days	
Aug 22 to Aug 30 7 days	
Sept 5 to Sept 10 4 days	
15 days @ $246.02	3,690.30
Data Entry and Listing	
H. Muntanion	
Sept 2 to 9	
8 days @ $96.00/day	768.00
X-ray diffraction analysis	
7 samples @ 30.00	210.00
Assays - Cu, Mo, Ag and Au	
362 samples @ $14.17	5,128.82
- 10 element geochem suite, Mo, Cu, Pb, Zn, Ag, Co, As, Sb, Bi Ba	
- 207 samples @ $5.00	1,035.00
- Tellurium - 188 samples @ $4.00	752.00
- Whole rock and 10 elements geochemical suite	
20 samples @ $12.50	250.00
- Sample preparation	
80 samples @ $1.25	100.00
	7,265.82
Samplers	
G. Powell	
May 6 to 24 - 15 days @ $65.75/day	986.24
Alfel Lontago	
May 15 to 30 - 16 days @ $59.28	948.48
	$135,817.62

APPENDIX D

PETROGRAPHIC DESCRIPTIONS OF ROCK
SPECIMES FROM 1985 DRILL HOLES

Drill Hole EC-150

61' Logged as BVAP (Bonanza volcanic andesite porphyry)

Megascopic: Medium grey, textureless rock with 15-20% white flecks possibly relic feldspar phenocripts. Very strongly altered. About 6 -7% disseminated py.

Microscopic: Original rock appears to have been feldspar porphyry. No qtz or mafic phenocrysts are visible. Essentially all of the plag phenocrysts have been replaced by alunite and 1 mm blades are common. The matrix consists of a mosaic of 0.1-0.2 mm qtz grains, alunite (determined by XRD, total alunite content is 10-12%) and 6-7% disseminated py. A py microveinlet noted.

324' Logged as INBR (intrusive breccia)

Megascopic: Medium grey and pale buff, somewhat mottled rock. Otherwise textureless 5% py grains and clots. Very strongly altered.

Microscopic: Qtz-alunite-clay-py rock. Appears to be 40% alunite which occurs as patches and very fine flakes. Alunite probably constitutes the buff colored portion of the rock. Alunite and dickite determined by XRD. Matrix of very fine qtz mosaic with finer alunite.

341' Logged as PPFX (feldspar porphyry)

Megascopic: Fairly soft, very strongly altered buff colored rock - 6% disseminated py and veinlets.

Microscopic: Similar to 324' but clay is more visible. Vague patches of alunite (same as 324') but here contain small clots of clay. Matrix of qtz-alunite and minor clay. About 40% alunite, 10-20% clay, 3% clay, remainder qtz. Veinlets of qtz-alunite-clay.

369' Logged as PPFX (feldspar porphyry).

Megascopic: Pale grey, very strongly altered rock. 15%-20% white flecks, probably altered feldspar phenocrysts. Py occurs as dissemination and veinlets.

Microscopic: Similar to 61' but alunite much less distinct here and appears to be being replaced by illite. Alunite and illite determined by XRD. Rock consists of 0.3 mm clusters of qtz mozaics and a few vague 2 mm illite patches with remnat kaolinite in a qtz-illite matrix. Illite is interstitial to qtz. The qtz-illite ration is about 1:1. 6% py. Some microscopic py veinlets.

DRILL HOLE EC-151

34' Logged as BVAT (Bonanza volcanic andesite tuff).

Megascopic: Pale grey rock with buff tinge. Very strongly altered. Stringers, veinlets and py disseminations. Some small white flecks - determined by XRD to be dickite. Clay mineral in matrix is also dickite.

Microscopic: No relic texture. Rock consists of an extremely fine qtz (0.01 mm) - clay matrix with 10% 0.1 - 0.2 mm qtz grains many of which are holoed by py. 10% scattered 0.5 - 1mm clay-py patches. 10% py, mostly as stringers, veinlets and some disseminations. There are several parallel and subparallel veinlets and stringers per cm of qtz-py, py and py-clay.

50' Logged as BVAL (Bonanza volcanic lapilli tuff)

Megascopic: Fragmental rock with clasts up to a few cm in size. Medium grey with buff patches. Polymict, tighly packed. Very strongly altered.

Microscopic: Fragmental rock completely altered to qtz-clay-py. Fragments of clay, qtz and relic porphyry. Qtz fragments consist of a very fine mosaic and others of a somewhat coarser mosaic. Porphyry fragments have relic lath-shaped phenocrysts completely replaced by clay in a qtz matrix. The fragments sit in a clay-qtz matrix. The clay pervades the rock as streaks, stringers and patches.

123' Logged as BVAT

Megascopic: Grey to buff rock with extremely fine very siliceous matrix. 10% mostly 1-2 mm (up to 8 mm) elongated qtz eyes, possibly filling voids. Possibly a few relic feldspar phenocrysts. 8% very finely disseminated py.

Microscopic: The matrix consists of qtz, very fine grained alunite and some kaolinite (identified by XRD). There are 2-6 mm lenses and pods of qtz that is replaced, mostly at the margin, to kaolinite and py. One of the lenses may have a few crystals of topaz. Vugs may have been leached during alteration or may be amygdules. A few vague relic feldspar phenocrysts.

133' Logged as BVAT

Megascopic: Similar to EC 151-123'. Strongly altered.

Microscopic: 15% clay (dickite, determined by XRD) - py fragments? phenocrysts? These are mostly irregular 0.5 - 1 mm (ranging from 0.3 - 4 mm) irregular, corroded shapes. Some contain a qtz grain and a few flakes of illite? alunite?
8% mostly 0.1 - 0.2 mm scattered qtz grains.
The matrix consists of very fine qtz - clay
5% disseminated py.
The rock type is probably a tuff or possibly an amygdaloidal flow.

236' Logged as BVAT within a 6" zone with apparent flattened pumice balls.

Megascopic: Buff colored rock with light grey streaks. Texturless and extremely altered.

Microscopic: Most of rock is illite? with 1 mm patches and clots of dickite (determined by XRD). A few flakes of coarser alunite?
Some very fine qtz in matrix. 10% mostly disseminated py. Testure is completely literated. Veining of qtz and dickite. Dickite cuts and displaces qtz.

274' Logged as PPFX (feldspar porphyry), probably hypabyssal.

Megascopic: 10-15% 1-2 mm white relic feldspar pherocrysts in grey-buff colored matrix. Up to 3 mm wide py-qtz veinlets.

Microscopic: Original texture of this rock is obliterated. Up to 2 mm qtz grains. Entire rock overprinted by illite (determined by XRD). Some illite occurs as patches - relic phenocrysts? Qtz, clay, illite occur as streaks and veinlets. 10-12% disseminated py.

345' Logged as BVAF (Bonanza volcanic andesite flow).

Megascopic: Light grey - cream colored rock. Very strongly altered to clay and silica. Texture is destroyed. A few vugs. Disseminated py.

Microscopic: Generally similar to 274' but even more extensive illite and more abundant, smaller, 0.1 - 0.2 mm and rounder qtz grains. Matrix of very fine illite and qtz (determined by XRD) Illite has brown color in thin section and looks almost like biotite. In parts of the slide illite occurs as sub-parallel needles possibly replacing flow oriented mafics. 4% py grain surrounded by qtz grains and small vugs.

DRILL HOLE EC-152

117' Logged as BVAP (Bonanza volcanic andesite porphyry).

Megascopic: Dark grey, textureless rock consisting of qtz, clay and 12-15% py, very strongly altered. Strong clay and moderate silica.

Microscopic: Texture has been obliterated. Pervasive alteration to illite of alunite or pyrophyllite (about 40%) qtz which occurs as very fine mosaics clay (about 10-20%) and py (10-12%). Much of the alunite is concentrated in patches. Clay also occurs as clumps, streaks and stringers.

170' Logged as BVAP

Megascopic: Fairly light grey rock with a weak buff colored hue. The texture is obliterated by very strong silica and clay alteration. Py occurs as disseminations and microveinlets. Clay also occurs as veinlets.

Microscopic: Appears to have relic porphyry texture. 15% mostly 0.5-1.5 mm relic lath shaped feldspar phenocrysts, completely altered to dickite (determined by XRD) and py grains. Some patches of clay py which ay be corroded phenocrysts or rock fragments. One patch consists of birefringent material, possibly illite.

A 3 mm rounded qtz mosaic-py grain also occurs. The matrix is quartzose with small clots of clay and a very weak trace of illite? 7-8% py in mostly disseminated clay-qtz and py veinlets occur. The py veinlet cuts across phenocrysts.

273' Logged as BVAB (Bonanza volcanic andesite breccia) with volcanic fragments and minor qtz fragments about 2 cm in size totalling about 30%.

Megascopic: Buff-light grey colored polimictic. One fragment is vaguely porphyritic. Very strong qtz-clay alteration. Buff colored patches contain clay and qtz py disseminations and streaks.

Microscopic: Completely altered to qtz-clay-py. Very irregular and hazy dickite (determined by XRD) patches and clots and scattered qtz grains mostly from 0.2 - 0.8 mm in size. The matrix consists of a qtz mosaic with 0.01 - 0.04 mm grains.
About 6-7% py as disseminations and veinlets.

290' Logged as BVAP with a fairly well preserved texture.

Megascopic: 20% subparallel 1-2 mm white feldspar phenocrysts which appear fairly fresh in a dark grey, aphanitic, py-rich matrix. Py occurs as disseminations and hairline veinlets.

Microscopic: About 30% mostly 0.7 - 2mm plagioclase phenocryst are about 60% unaltered. Alteration is to kaolinite, mostly along grain margins. Locally some of the plagioclase appears to have been altered to illite?
The matrix is somewhat altered feldspar-qtz. 20-25% py.

343' Logged as ISDR (Island Intrusive Diorite) It is somewhat porphyritic.

Megascopic: Dark grey-brown rock with preserved feldspar porphyry texture. About 50% 2 mm sumhedral phenocrysts. Some relic mafic phenocrysts largely replaced by py.
Py occurs as disseminations and hairline stringers.

Microscopic: Similar to 290' except that it is even a more crowded porphyry. About 50% feldspar phenocrysts, mostly 0.7 - 2.5 mm. They are only weakly altered. some relic mafic phenocrysts occur and are replaced by illite and py. Kaolinite is not as abundant and the illite is better developed than at 290'. Matrix consists of 0.1 mm qtz-feldspar illite fleeks (about 20% of rock) and 8-10% py ocurring as disseminations and microveinlets.

376' Logged as BVAL (Bonanza Volcanic andesite lapilli tuff). About 30% siliceous rock fragments.

Megascopic: Dark grey rock with small white patches. Vaguely fragmental. Part of sample is vaguely prophyritic (feldspar phenocrysts). Another portion contains carbonate in the matrix. Py is pervasive and also occurs as hairline stringers.

Microscopic: Part of thin section is porphyritic with 20% 1-2 mm lath-shaped feldspar phenocrysts. Feldspar is part altered to pyrophyllite, illite and clay. Some are completely replaced by py. Locally phenocrysts are badly corroded and broken. Locally they are essentially unaltered.

The matrix consists of dickite with strong pyrophyllite (determined by XRD) and possibly some illite. Part of thin section has no phenocrysts.
15% py occurs as patches, microveinlets and disseminations. Carbonate occurs as patches with lesser qtz and as late-stage veinlets.

394' Logged as ISDR - interfingering with BVAN.

Megascopic: Medium-dark grey feldspar porphyry. About 35% subparallel lath-shaped feldspar phenocrysts, most about 2 mm long. Fairly fresh rock. Disseminated py in matrix.

Microscopic: Same rock as 343'. 35% 1-2 mm mostly lath-shaped subhedral, feldspar phenocrysts. Most are fresh some are part altered. Abouth 2% scattered 0.5 - 1mm qtz grains. In feldspar-qtz matrix some interstitial very sparse illite 3% disseminated py.

DRILL HOLE EC - 153

369' Logged as ISIN (Undifferentiated intrusive)

Megascopic: Relic porphyritic texture. White patches are probably clay altered feldspar phenocrysts. Matrix is fairly dark grey. Part of the sample is bleached to a cream color with hemetite and limonite staining after py. Py is disseminated.

Microscopic: The rock consists entirely of qtz, kaolinite and py. The texture has been totally obliterated. About 60% kaolinite which occurs as very irregular patches ranging up to 5 mm.

The matrix consists of a mosaic of about 0.04 mm qtz and small clay clots and weak hemetite staining. About 5% disseminated py. A qtz veinlet cuts across the thin section.

475' Logged as PPFX (Feldspar Porphyry)

Megascopic: Medium grey feldspar porphyry with 25% 2-3 mm ragged anhedral clay altered feldspar phenocrysts in a matrix of finer feldspar phenocrysts, quartz and finely diseminated py. it contains an irregualr veinlet up to 7 mm wide of chalcocite, qtz, py and probably bornite.

Microscopic: The texture is obliterated due to very strong altertion. The rock consists of indistinct patches of intergrown dickite and pyrophyllite (determined by XRD). In hand specimen these are white and are probably altered feldspar phenocrysts. Two of these contain coarse grains of diaspore. The matrix consists of qtz mostly 0.2 - 0.4 mm in size, dickite and pyrophyllite. The composition is about 60% qtz, 15-20% pyrophyllite, 10% clay and 8-10% disseminated py. A veinlet of qtz-clay-pyrophyllite occurs.

522' Logged as zone of assimilation of PPFX with BVAL (Bonanza andesite lapilli tuff)

Megascopic: Pale, buff colored very strongly clay, silica and pyrophyllite altered. The texture is obliterated. Small white patches are possibly relic feldspar phenocrysts. Py is disseminated.

Microscopic: White patches (phenocrysts) consist of dickite (determined by XRD) which is often surrounded by masses of probable diaspore which may be replacing clay. There are also a few laths of diaspose. The matrix consists of 0.05 mm qtz mosaics with about 20% dickite along qtz grain boundaries.

248' Logged as PPFX

Megascopic: 30-40% mostly 2-7 mm, cream colored patches, generally rounded in a light-medium grey, aphanitic, siliceous matrix. Whispy white clay veinlets occur.

Microscopic: White patches consist of dickite (determined by XRD). The matrix consists of 0.05 - 0.1 mm qtz mosaics with small dickite clots. Two 1 mm wide qtz veinlets made up of 0.1 - 0.2 mm qtz mosaics cut the qtz matrix but not the phenocrysts. Clay stringers cut the qtz veinlets and phenocrysts.

558' Logged as BVAN (undifferentiated Bonanza andesite)

Megascopic: Mottled dark buff patches occur in a fairly dark grey silica matrix. 15% py occurs as grains and clusters of grains surrounded by pyropyllite and clay. About 25% of the rock consists of clear, medium grey qtz with only weak, very finely disseminated py. This portion hosts essentially all of the chalcocite (+/- bornite) which replaces py.

Microscopic: The patches are pyrophyllite with lenses intergrown dickite (determined by XRD). The matrix is a 0.05 mm qtz mosaic with interstitial flakes and small clots of dickite. Veinlets f qtz occur. These are cut by narrow irregular clay veinlets.

642' Logged as BVAN

Megascopic: Grey and buff mottled rock. A 1 cm grey very siliceous angular fragment. Py mostly occurs as clusters of grains and as stringers. Molybdenite occurs as disseminations. There is some vague qtz veining.

Microscopic: Very irregular patches of dickite (determined by XRD) whisps and clots occur in a 0.05 - 0.1 mm qtz mosaic. A few coarser grains of qtz occur made up of 0.2 mm mosaics. 3% disseminated py. Qtz-py veinlets cut across the rock.

669' Logged a BVAN

Megascopic: Grey and buff colored fragments about 1 cm in size with 1-2 mm white rectangular patches, probaly feldspar phenocrysts. The matrix is very siliceous with buff patches. Py and traces of Cu sulphides occur as very fine disseminations in fragments and in the matrix. Py also rims fragments. Irregular qtz veinlets cut across the rock.

Microscopic: The fragments are a mosaic of fine 0.2 mm and some a very fine 0.05 - 0.1 mm mosaic of qtz grains. These are generlly broken and invaded by pyrophyllite (determined by XRD) microveinlets. The matix consists of pyrophyllite and qtz with streaks, clots and patches, a few mm in size, of pyrophyllite and clay. 5-6% sulphides occur as 1 mm square grains and as 0.01 - 0.05 grains.

The rock is composed of 40% qtz, 35% pyrophyllite, 15-20% dickite and 5-6% sulphides.

697' Logged as PPFX but could possibly be a tuff.

Megascopic: This rock is extremely altered and consists of about 30% 1-2 mm white-grey rectangular patches of clay often with sulphides. The matrix is buff colored. About 5% py occurs as 0.1-0.5 mm grains with some finer cpy. Chalcocite rims some of the py and cpy. A few druzy vugs occure adjacent to sulphides.

Microscopic: The white patches consist of dickite (determined by XRD). Some 0.5 mm qtz grains which are corroded and irregular in shape. The matrix consists of a mosaic of 0.05 mm qtz with small clots of dickite.

790' Logged as BVAT (Bonanza andesite tuff)

Megascopic: A buff colored, extremely altered siliceous rock. The texture has been obliterated. 7% py occurs as stringers and small clots. Accessory cpy, chalcocite and molybdenite also occur.

Microscopic: Contains about 20-25% kaolin and 8% intergrown pyrophyllite (determined by XRD). These minerals occur mostly in patches up to 3-4 mm with some 0.2 mm diaspore grains. Py often occurs near the centres of these patches. The matrix consists of a mosaic of about 0.05 mm qtz grains with interstitial flakes and whisps of kaolinite.

A few qtz fragments occur which consist of mosaic of 0.2 mm grains. Stringers of kaolinite and minor pyrophyllite are common.

824' Logged as BVAN

Megascopic: Dark grey and red brown mottled rock. It is extremely altered, very siliceous and contains 6-7% hemetite.

Microscopic: The rock consists of about equal amounts of qtz and clay. The texture has been obliterated. 2-3 mm very ragged, clay-pyrophyllite patches and some 0.5 - 1 mm qtz grains sit in a matrix of fine intergrown qtz, clay and pyrophyllite.

Drill Hole EC-155

40' Logged as BVAB (Bonanza andesite breccia) fragments are volcanic.

Megascopic: Cream colored extremely siliceous rock with limonite staining. Extreme alteration obscures fragment outlines. The rock is vuggy and has some open-space hairline fractures.

Microscopic: The rock consists of only qtz and limonite. A few scattered 0.5 - 1 mm qtz fragments consisting of a mosaic of 0.1-0.2 mm grains are set in a mosaic of 0.05 mm qtz grains. There are scattered vugs and open fractures.

115' Logged as BVAL (Bonanza andesite lapilli tuff). Contains volcanic fragments about 4 cm in size.

Megascopic: Fairly dark orange colored rock due to limonite stain. Extremely siliceous, limonite stained rock with a lot of small vugs, probably leached sulphides. A 2 mm white irregular qtz veinlet occurs.

Microscopic: The rock consists of qtz and minor limonite. Qtz occurs as a mosaic of 0.1 - 0.15 grains. A qtz veinlet occurs which is composed of aa mosaic of 0.5 mm grains. Possible hydromica flakes (clay?) are concentrated adjacent to the qtz vein.

129' Megascopic: An intensely silicified coarse ash tuff with a dust tuff band. The coarser tuff is mottled light grey and pale buff. The dust tuff is buff. A very fine, vague lamination is noted.

Microscopic: The rock consists of qtz topaz and a trace of clay. Fragments consist of variably-sized qtz mosaics (up to 2mm).

The qtz matrix contains a scaly, fairly high relief mineral - probably topaz. The dust tuff band has a sedimentary type texture rather than an interlocking one. It consists of 0.05 mm qtz mosaics nd topaz and a few small clots of clay.

180' Logged as BVAB

Megascopic: An extremely siliceous light grey-cream colored lightly mottle rockwith weak limonite stain. The light grey mottles impart a vague fragmental texture.

Microscopic: The rock consist of qtz with limonite stains. Three different qtz grain sizes occur, the most common being about 0.3 mm. The small size is about 0.05 mm. some qtz

patches, probable fragments, are made up of a mosaic of 1 - 1.5 mm grains. Qtz also occurs as stringers which are composed of a very fine mosaic.

256' Logged as BVAB with qtz stockworking.

Megascopic: Light grey strongly altered and very siliceous rock with white clay-rich patches, 5-8 mm in size, buff colored patches clay-filled hairline fractures. Some of the fragments are hemetite stained and weak hemetite staining occurs along some fractures. Some qtz fragments are 5-8 mm in size.

Microscopic: White patches in thin section are generally corroded and impure consisting of a mix of clay and probably diaspore. These are generally surrounded by pyrophyllite with intergrown kaolinite (XRD determination). The buff colored patches are pyrophyllite with grains of diaspore (XRD determination) and disseminations of limonite. The qtz fragments consist of a mosaic of about 1 mm grains. In these, diaspore fills microscopic cracks. The matrix consits of a qtz mosaic with 0.05 - 0.10 mm grains with interstitial kaolinite and mixed pyrophyllite-clay clots with a few scattered diaspore grains.

Veinlets and patches tapering to stringers consist of clay, pyrophyllite and diaspore which disappears along some veinlets. The overall composition is about 70% qtz, 15% pyrophyllite, 10% kaolinite and 5% diaspose.

304 Logged as BVAB

Megascopic: Mottled white and grey rock with white patches and fracture fills of clay. The rock is strongly silica and clay altered.

Microscopic: The rock consists of qtz 30-35% kaolinite (XRD determination) and a trace of possible hydromica. Kaolinite occurs as ptches and veinlets with a mix of a somewhat sclay, impure, higher relief mineral with a grey to weak yellow birefringence (hydromica?). The matrix consists of a qtz mosaic with 0.06 - 0.1 mm qtz grains with interstitial clay clots and stringers.

with intergrown kaolinite (XRD determination). The buff colored patches are pyrophyllite with grains of diaspore (XRD determination) and disseminations of limonite.
The qtz fragments consist of a mosaic of about 1 mm grains. In these diaspore fills microscopic cracks.
The matrix consists of a qtz mosaic with 0.05 - 0.10 mm grains with interstitial kaolinite and mixed pyrophyllite-clay clots with a few scattered diaspore grains.

Veinlets and patches tapering to stringers consist of clay, pyrophyllite and diaspore which disappears along some veinlets. The overall composition is about 70% qtz, 15% pyrophyllite, 10% kaolinite and 5% diaspose.

304' Logged as BVAB

Megascopic: Mottled white and grey rock with white patches and fracture fills of clay. The rock is strongly silica and clay altered.

Microscopic: The rock consists of qtz 30-35% kaolinite (XRD determination) and a trace of possible hydromica. Kaolinite occurs as patehes and veinlets with a mix of a somewhat scaly, impure, higher relief mineral with a grey to weak yellow birefringence (hydromica?) The matrix consist of a qtz masaic with 0.06 - 0.1 mm qtz grains with interstitial clay clots and stringers.

450' Logged as BVAB with 2 cm fragments.

Megascopic: A mottled, buff colored, extremely altered, strongly silicified rock. The texture has been obliterated. About 0.3% disseminated chalcocite is replacing py (trace).

Microscopic: The rock consists of about 70% qtz, 20% kaolinite, 10% yrophyllite, 0.3% sulphides and a trace of diaspore (XRD determination).

Patches, varying up to 2-3 mm, and stringers or streaks consist of kaolinite, generally at the cores, surrounded by pyrophyllite. The latter generally occurs as fibres and radiating aggre . There is a value indication prograde alteration from kaolinite to pyrophyllite. The matrix is composed of a qtz mosaic with 0.06 - 1mm grains with iterstitical kaolinite and pyrophyllite.

510' Logged as BVAB, same as at 450'

Megascopic: Buff-grey intensely, pervasively altered, textureless rock. 12-15% py occurs as veinlets and disseminations and about 0.3% disseminated chalcocite.

Microscopic: The rock consists of a matrix of qtz mosaic with about 0.1 mm grains. Pervasive pyrophyllite and kaolinite (determined by XRD) occur as patches (up to 3 mm), streaks and fibres interstitcal to qtz. About 3% diaspore occurs mostly as small scales and small clusters of scales. Across much of the thin section py is selvaged by a mix possibly of clay and diaspore. Py occuring within the pyrophyllite masses is not enveloped by this material.

PETROGRAPHIC DESCRIPTIONS OF SAMPLES FROM MCINTOSH MOUNTAIN

80-GER-130 Location: 244,920N; 233,000E

Megascopic: Siliceous breccia with angular to subangular light grey siliceous fragments from granule size to about 2 cm. The matrix is buff colored, veru siliceous. Limonite staining occurs along fractures.

Microscopic: The rock consists of 85% qtz and 15% clay. Light grey fragments consist of a mosaic of qtz grains of 0.1 - 0.4 mm. Clay patches up to 3 mm in size are noted. A limonite - stained matrix consists of a mosaic of 0.05 - 0.1 mm qtz with interstitical clay.

80-GER-132 Location: 244,880N; 233,500E

Megascopic: A fragmental rock, siliceous tuff? or breccia? The rock is buff colored. Many fragments are vague. Tuff and a few light grey qtz fragments occur. One fragment is vaguely porphyritic. Some discountinuous clay veinlets and fracture coatings.

Microscopic: 20% mostly 1-3 mm qtz fragments consist of a mosaic of 0.2 mm grains. Some patches of qtz with a mosaic of 0.01-0.02 mm grains. The matrix consists of a qtz mosaic of 0.05 mm grains with interstitial clay. Clay also occurs in patches. About 10% of rock is clay. Diaspore occurs as a few scattered grains. Discontinuous and irregular veinlets consist of qtz and clay with qtz.

EXPO 219
EXPO 240
EXPO 239
DON 14 FR
EXPO 260
EXPO 259
EXPO 280
EXPO 279
245 000 N
DON 5 FR
DON 13 FR
EXPO 221
EXPO 242
EC-155
EXPO EC-154
241
EXPO 262
EXPO 261
EXPO 282
EXPO 281
Hushamu Creek
50 40' N
DON 9 FR
DON 6 FR
DON 6 FR
DON 12 FR
EXPO 223
EXPO 244
EXPO 243
EXPO 264
EXPO 263
EXPO 284
EXPO 283
DON 10 FR
DON 11 FR
EXPO 246
EXPO 245
ROAD NE 150
EXPO 286
EXPO 285
EXPO 225
EXPO 266
EXPO 265
240 000 N
EXPO 227
EXPO 248
EXPO 247
EXPO 268
EXPO 267
EXPO 288
EXPO 287
EC-151
EXPO 229
EXPO 250
EXPO 249
EXPO 270
EXPO 269
EXPO 290
EXPO 289
EC-153
EC-152
EXPO 231
EXPO 252
EXPO 251
EXPO 272
EXPO 271
EXPO 292
EXPO 291
EC-150
EXPO 502
EXPO 274
EXPO 273
EXPO 294
EXPO 293
230 000 E
235 000 N
235 000 E
240 000 E
EXPO 233
EXPO 254
EXPO 253

N

0 FEET 500

UTAH MINES LTD.
EXPLORATION DEPARTMENT
VANCOUVER, BRITISH COLUMBIA

MACINTOSH PROJECT

1985 DIAMOND DRILL HOLES LOCATION

SCALE 1:5000
0 100 metres 200 300

NTS Ref. :	92 L/12	REVISIONS	
Work by :	J. B. RICHARDS	Work by :	
Drawn by :	R.N.G.	Drawn by :	
Date :	SEPT. 1985	Date :	

14058

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE :DDHEC000

PROJECT IDEN : EXPO	START DATE : 85/ 5/27	COMPLETION DATE : 85/ 5/27	GEOLOGGED BY : JBR +
COLLAR NORTHING:	COLLAR EASTING :	COLLAR ELEVATION:	GRID AZIMUTH :
TOTAL LENGTH : 0.00	CORE/HOLE SIZE : NQ	MACHINE TYPE :	CONTRACTOR : LONGYR

KEY	FLAG	- INTERVAL - FROM	- TO	CORE RECOV-ERY (FT.1)	% MIX	ROCK TYPE	TYPIFYING MINERALS 1	TYPIFYING MINERALS 2	QAL MIN MAT QM1	QAL MIN MAT QM2	TEXTURES 1	TEXTURES 2	GRAIN CHARACS F	GRAIN CHARACS C	GRAIN CHARACS %	GRAIN CHARACS M	FRACTURE #	FRACTURE TK	STRUCTUR-1 T	STRUCTUR-1 ID	STRUCTUR-1 STK AZM	STRUCTUR-1 DIP RT	STRUCTUR-2 T	STRUCTUR-2 ID	STRUCTUR-2 STK AZM	STRUCTUR-2 DIP RT	ALTERATION MINS H A QZ	H A BI	H A CY	H A CB	H A MG	ORE-TYPE MINS H ANY MIN XX	H A PY	H A CP	H A GL	H ANY MIN YY	SUMMARY
KEY	FLAG	FROM	TO	ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q	LC-COL	TM 3		TX 3	TX 4	S O R	R N D	S H P	O / C	DIP SML	F I	T 1	ID	STK AZM	DIP RT	T 2	ID	STK AZM	DIP RT	KF	MU	CL H A	EP H A	HE H A	HA H A	PR H A	MO H A	SL H A	HA H A		

SUMMARY REMARKS

ROCK CODES U24-27	G SCALE	ALTERATION AND ORE MINERALS	FACIES U77-79
OVER OVERBURDEN	? POSS	QZ QUARTZ	0 FRESH
STKP STIKUP	/ PROB	CY CLAY	1 PROPYLYTIC
CASN CASING NO CORE	0 0.0%	AL ALUNITE	2 PROP-PHYLL
MISN CORE MISSING	. 0.01%	KF K-FELDSPAR	3 ARGILLIC
FAUL FAULT GOUGE	- 0.03%	BI BIOTITE	4 ARG-PHYLL
SAND SAND (TECTONIC)	(0.1%	IL ILLITE	5 PHYLLIC
ISGD ISL GRANODIORITE	* 0.3%	PP PYROPHYLLITE	6 SOME PYROP
INBR INTRUSIVE BRECCIA	) 1.0%	CL CHLORITE	7 ADV ARG
BVAL ANDESITE ?	+ 2.5%	CB CARBONATE	8 POTASSIC
QTZV QUARTZ VEIN	= 5.0%	EP EPIDOTE	9 SILICIC
ISIN UNDIFF INTRUS	1 10%	MG MAGNETITE	
PPFX FELDSPAR PORPH	2 20%	HE HEMATITE	MINERAL ZONE
BVAT ANDESITE TUFF	3 30%	LI LIMONITE	L 77-79
BVAF ANDESITE FLOW	4 40%	PY PYRITE	0 NEGLIGIBLE
BVAB BRECCIA	5 50%	PR PYRHOTITE	<0.5%
ISDR ISLAND DIORITE	6 60%	CP CHALCOPYRITE	1 PY
BVAN ANDESITE UNDIFF	7 70%	MO MOLYBDENITE	2 PY>CP
DA/D DACITE DYKE	8 80%	BO BORNITE	3 PY>CP,MO
PPQF QUARTZ FELS POR	9 90%	CV COVELITE	4 PY+MO CP
BVAP ANDESITE PORPH	X 100%	CC CHALCOCITE	5 PY+CP+CC+BO +CV+/-MO
BREX BRECCIA ZONE		FX FELDSPAR	6 PY+BO+CC+CV +/-MO
CLAY CLAY ZONE		VF VOLC FRAG	7
ISQD ISL QTZ DIORITE			8 MO

% MIX IS AMOUNT OF NEST IN PGI, G SCALE,%

I SCALE

KEY FLAGS (2-4)

KTOX TOP OF OXIDE ZONE
KBOX BOTTOM OF OXIDE

X EXTREME	3 WEAK
9 V STR-EX	2 V WK-WK
8 STR-V STR	1 VERY WEAK
7 STRONG	0 NONE
6 MOD-STR	' RETURN TO BLANK
5 MODERATE	
4 WK-MOD	

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC000 (CONTINUED)

S U M M A R Y R E M A R K S

H-SCALE HOW OF ALTERATION MINERALS

X MASSIVE	1 MINOR MICROVNS+ SCTD.XT
9 PERVASIVE	0 BARREN
8 DISS, PATCHES>VNS,SEL,ENV	D DISSEMINATIONS
7 DISS, PATCHES=VNS,SEL,ENV	V VEINS
6 DISS, PATCHES<VNS,SEL,ENV	E ENVELOPES
5 VNS +/OR ABUNDANT ENV	S SELVAGES
4 VNS+/ OR OCCASIONAL ENV	P PERVASIVE
3 VNS = SPOTS+PATCHES	Q PATCHES
2 MICROVEINS + VEINS	C COATINGS
	K STOCKWORK
	U COATING VUGS
	* RETURN TO BLANK

STRUCTURE IDS	STRUCTURE THICKNESS	COLOR	
VQ VEIN QUARTZ	T-SCALE	LIGHTNESS	HUE
VP VEIN PYRITE	0 < 1 MM	L28	L29
VY VEIN PYROPH	1 1-3 MM	9 PALEST	W WHITE
VC VEIN CLAY	2 3-6 MM	8 PALE	A GREY
VA VEIN QTZ PY	3 6-10 MM	7 LIGHT	U BROWN
VM VEIN QTZ MO	4 1-3 CM	6 MED-LIGHT	T TAN
F/ FAULT	5 3-6 CM	5 MEDIUM	G GREEN
C/ CONTACT	6 6-12 CM	4 MED-DARK	R RED
SH SHEAR	7 12-30 CM	3 DARK	O ORANGE
SW STOCKWORK	8 30-60 CM	2 VERY DARK	N BLACK
BN BANDING	9 60-100 CM	1 DARKEST	B BLUE
FR FRACTURING	X >1 M	$ ISH	P PURPLE
FL FLOW			$ ISH
BD DEDDING			
VB VEIN CARB			
BR BRECCIATED			
VE VEIN			
U,L 49-50	U,L 48		

TEXTURES	TYPIFYING MINERALS		FRACTURE I.D.
	TM1U28-29	QM1U32-33	F-SCALE
TX1(U35-36)	TM2U30-31	QM2L32-33	U-45-PYRITE
TX2(L35-36)	TM3L28-29		U-46-QUARTZ
PP PORPHYRITIC			L-46-DRY FRAC
P/ VAGUE PORPH	QZ QUARTZ		
EQ EQUIGRANULAR	QX QTZ PHENOS		FRACTURE COUNT
FR FRAGMENTAL	QE QTZ FRAGS		(U,L 44,46)
CT CATACLASTIC	FX FELDSPAR		F-SCALE
VG VUGGY	BI BIOTITE		1<1/FT
BR BRECCIATED	HB HORNBLENDE		2 1/FT
B/ VAGUE BRECCIA	PX PYROXENE		3 2-3/FT
KR CRACKLED	MG MAGNETITE		4 4-6/FT
SH SHEARED	RF ROCK FRAGMENT		5 7-10/FT
GG GOUGED	VF VOLC FRAGMENT		6 11-18/FT
BD BEDDED	IF INTRUS FRAG		7 19-25/FT
CM CHILLED MARGIN	VG OPEN SPACE		8 25-50/FT
	PF PY FRAG		9 >50/FT
			X EXTREME

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC000 (CONTINUED)

S U M M A R Y R E M A R K S

BA BANDED
SW STOCKWORK

REMARK HEADERS

RALT	REMARK, ALTERATION
RCOL	REMARK, COLOUR
RCON	REMARK, CONTACT
RFRC	REMARK, FRACTURE
RCMP	REMARK, COMPOSITION
RLTH	REMARK, LITHOLOGY
RCOR	REMARK, CHANGE OF CORE SIZE
RMIN	REMARK, MINERAL (NON-SULPHIDE)
RMNZ	REMARK, MINERALIZATION
RSAM	REMARK, SAMPLE
RSTR	REMARK, STRUCTURE
RTXT	REMARK, TEXTURE
RVEN	REMARK, VEIN
RXRD	REMARK, X-RAY DIFFRACTION
RSUM	REMARK, SUMMARY

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE :DDHEC150

PROJECT IDEN : EXPO | START DATE : 85/ 4/30 | COMPLETION DATE : 85/ 5/ 3 | GEOLOGGED BY : HRM +
COLLAR NORTHING: 236040.00 | COLLAR EASTING : 239300.00 | COLLAR ELEVATION: 423.67 | GRID AZIMUTH :
TOTAL LENGTH : 141.42 | CORE/HOLE SIZE : NQ | MACHINE TYPE : | CONTRACTOR : LONGYR

	SURVEY FLAG	SURVEY POINT LOCATION	FORESIGHT	AZIMUTH (DEGREES)	VERTICAL ANGLE (DEGREES)	NORTHING	EASTING
	000	.0		0.00	-70.00		

KEY	FLAG	FROM (INTERVAL - UNITS = FT)	TO	CORE RECOVERY (FT.1)	% MIX	ROCK TYPE	TYPIFYING MIN TM 1	TYPIFYING MIN TM 2	QAL MIN MAT QM1	TEXTURES TX 1	TEXTURES TX 2	GRAIN CHARACS F	C	% C	FRACTURE M P	#	TK	STRUCTUR-1 T	ID	STK AZM	DIP RT	ALTERATION H A QZ	H A BI	H A CY	H A CB	H A MG	MINS ANY XX	ORE-TYPE H A PY	H A CP	H A GL	MINS ANY YY	SUMMARY
K	F			ROCK	FOR	EN	RT		TM	QM2	TX	TX	S	R	S	O	DIP	F	T	ID	STK	DIP	KF	MU	CL	EP	HE	HA	PR	MO	SL	HA	
E	L			QUAL	MEM	V	Q	LC-	3		3	4	O	N	H	/	SML	I	2		AZM	RT			H	H	H	H	H	H	H	H	
Y	G			DESIG	AGE			COL					R	D	P	C					STRUCTUR-2				A	A	A	A	A	A	A	A	
P		.0	.3				STKP											P															
P		.3	17.1				OVER											P															
P		17.1	20.4				BVAP	FX		PP		J	3	K		51	P	2	VQ		20	88		Q4			AL	8=			7	8
L								5A								4		1	VP								95				1	=
K	TOX	17.1	17.1	YELLOW LIM + LESSER DK RED BRN FEO MOSTLY ON FRCTS																														
K	TOX	17.1	17.1	IN VUGS. STAIN IS MOSTLY MOD TO STRONG																														
R	TXT	17.1	20.4	ANHED PHENOS REPLACED BY CY-ALUNITE-PY. MTRX IS QTZ																														
R	TXT	17.1	20.4	SOME RELIC TXT INTENSE SI FLOOD																														
R	ALT	17.1	20.4	SILIC FLOOD IN ZONES FEW INCH WIDE SELVAGED WITH FE STAIN																														
R	ALT	17.1	20.4	QTZ APPEARS TO BE EMANATING ALONG FRCTS																														
N		17.1	20.4		3	BVAP		P/									N	2	VQ		70	9X		Q2								
L								OA		VG						5																	
R	XRD	18.6	18.6	X-RAY IMM ALUNITE REPLACES FX. MOST FX ALT TO KAOLIN																														
P		20.4	27.6				BVAB			B/						5	P	2	VQ			9X		33			AL				9	X
L								TA										5	VC								32				0	0
R	VEN	20.4	27.6	LOCALLY SUGGESTION OF QTZ VNING - STREAMING. DK GRY QZ																														
R	MIN	20.4	27.6	BLK MIN IN FRCT AT 26.5M DK BRN STREAK POSS TOURM																														
R	TXT	21.6	25.0	BR ZONE																														
N		21.6	25.0		X	FAUL		BR		3	6	5	7		5	N	2	SH		10	9X		33			AL				9	X
L								OA			3	9	0		X		5	VC								P7				0	0
R	XRD	26.2	26.3	SIMILAR TO 83-EMI-349. X-RAY DICKITE, ALUNITE																														
N		27.4	27.6		X	FAUL		BR		3	6	5	6		5	N	2	SH		20	9X		34			AL				9	X
L								OA							X		5	VC								P7				0	0
P		27.6	41.1				BVAB			B/		6		0			P				9X		U4			AL				9	X
L								TA		VG		5	9	0		2								/							0	0
R	VEN	27.6	41.1	LOCAL SUGGESTION OF QZ VEINING - STREAMING																														
N		27.6	29.9		X	BVAB		B/		6		0			N						9X		U4			AL				9	X
L								TA		VG		5	9	0		6								/							0	0
N		33.5	41.1		X	BVAB		B/		6		0			N						9X		U2			AL				9	X
L								TA		VG		5	9	0		2								/							0	0

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC150 (CONTINUED)

KEY	FLAG	- INTERVAL - (UNITS = FT) FROM	TO	CORE RECOVERY (FT.1)	% MI X	ROCK TYPE	TYPIFYING TM 1	TYPIFYING TM 2	QAL MIN MAT QM1	TEXTURES TX 1	TEXTURES TX 2	GRAIN CHARACS F C % M	FRACTURE # TK	STRUCTUR-1 T1	ID	STK AZM	DIP RT	ALTERATION MINS HA QZ	HA BI	HA CY	HA CB	HA MG	ANY MIN XX	ORE-TYPE MINS HA PY	HA CP	HA GL	ANY MIN YY	SUMMARY
K EY	F L G			ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q	LC- COL	TM 3	QM2	TX 3	TX 4	S O R	R N D	S H P	O / C	DIP SML	F I	T 2	STRUCTUR-2									
P		41.1	51.5			BVAN										9	P	2	VQ		8X		U2		AL			9	X
L							TA									2									/			0	0
R	STR	41.6	43.3		IN FRC ZONE AT 43.0M 5-10 MM BR VLT PROB CATACLASTIC																							
R	TXT	41.6	43.3		MILLED .2-3 MM ANG QZ FRAGS IN FINE MTRX																							
N		41.6	43.3			4 BVAN										5	N	2	VQ		8X				AL			9	X
L							TA									9		3	BR	10					/			0	0
N		50.6	51.5			X BVAN				VG						9	N	2	VQ		8X		U2		AL			9	X
L							TA									5									/			0	0
P		51.5	65.7			BVAN				VG							P				9X							9	X
L							TA									3												0	0
R	TXT	51.5	65.7		APPEARS TO BE SOME VAGUE BR TXT LOCALLY. SOME QTZ STREAM																							
R	FRC	52.8	53.0		SPONGY TXT LIM COATED																							
N		52.8	53.0			X BVAN				VG							N				9X							9	X
L							TA									9												0	0
N		59.9	60.1			X BVAN				VG							N				9X							9	X
L							TA									9												0	0
N		59.9	60.2			X BVAN				VG							N				9X							9	X
L							TA									8												0	0
N		61.6	61.9			X BVAN				VG							N				9X							9	X
L							TA									9												0	0
N		63.5	64.6			X BVAB				BR		6 7 7					N				9X							9	X
L							OA					7 3 C				8												0	0
P		65.7	67.5			FAUL											P				9X							9	X
L																X												0	0
P		67.5	79.5			BVAN				VG							P	1	VC		9X		32		AL			9	X
L							OA									7									/			0	0
R	TXT	67.5	79.5		VERY VUGGY W STR LIM COATINGS SOME CLAY FILLS																							
N		71.8	71.9			X FAUL											N						C3						
L																X													
N		73.4	75.0			X BVAN				VG							N	1	F/		B55	9X	32		AL			9	X
L							OA									9									/			0	0
N		75.0	75.6			X FAUL				BR							N		SH		B10	98	C7						
P		79.5	79.7			FAUL											P						C7						
P		79.7	80.6			ISGD			QZ2	EQ		5 5					P		C/		B40		95			D.		3	4
L							7A		FX7							5						?						1	.
R	LTH	79.7	80.6		POSS SAME AS UNIT BELOW BUT BLEACHED. CONTACT FEATURE?																							
R	LTH	79.7	80.6		BUT CHANGE IS SHARP																							
P		80.6	81.1			BVAN										6	P						95		81			3	5

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC150 (CONTINUED)

KEY	FLAG	FROM	TO	CORE RECOVERY (FT.1)	% MIX	ROCK TYPE	TYPIFYING TM 1	TYPIFYING TM 2	QAL MIN MAT QM1	TEXTURES TX 1	TEXTURES TX 2	GRAIN CHARACS F	C	%	M P	FRACTURE #	TK	STRUCTUR-1 T	ID	STK AZM	DIP RT	ALTERATION MINS H A QZ	H A BI	H A CY	H A CB	H A MG	H ANY A MIN XX	ORE-TYPE MINS H A PY	H A CP	H A GL	H ANY A MIN YY	SUMMARY
KEY	FLAG			ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q	TM LC- 3 COL	QM2	TX 3	TX 4	S O R	N D	H P	/ C	DIP SML	F I	T 2	ID	STK AZM	DIP RT	KF	MU	CL H STRUCTUR-2 A	EP H A	HE H A	HA H A	PR H A	MO H A	SL H A	HA H A	
L								5A																								1 1
R	LTH	80.6	81.1		PROB ANDS XENOLITH SOMEWHAT GRANITIZED. POSS ALT DIOR																												
P		81.1	89.1			ISGD		QZ3		5	5							P	3	VE	5			85							3 5
L								EX7									5			FR	30										
N		81.1	89.1		2	BVAN												N						95			81				3 5
L							5A																								1 1
N		81.1	81.4		X	FAUL												N						97							
N		82.9	83.5		X	FAUL												N	1	SH	5			97							
N		84.1	84.3		X	FAUL												N	2	VE				87			D*				
N		87.2	87.8		X	BVAN			VG									N	1	VE				87							
L																	9														
N		88.7	89.1		X	FAUL												N	2	VE	30			87			8+				
P		89.1	95.5			INBR		RF	BR	5	M	3	0					P	2	VE	20	P3		85		AL	71				7 7
L							6A				7	5					3									/					1 1
R	LTH	89.1	95.5		VOLC BR? MONOLITH FRAGS W REACTION RIMS (WHITE)																												
R	LTH	89.1	95.5		HYDROTH OR INTR BR RELATED TO INTRUSION?																												
R	LTH	89.1	95.5		LIGHT BUFF FRAGS OF CLAY 10% PY. MTRX DK GRY W BRN HUE																												
R	LTH	89.1	95.5		SILIC-AL? + CLAY? HARD 10% PY INTRUS? TXT LOCAL POR?																												
R	ALT	89.1	95.5		MOTTLE BUFF COL POSS ALUNITE PATCHES																												
R	TXT	89.1	95.5		ZONES OF SWIRLY TXT																												
K	BOX	90.2	90.2																												
R	ALT	93.9	95.5		ALUNITE? PATCHY BUFF COL																												
N		93.9	95.5		X	INBR		RF	BR	5	M	3	0		4			N	2	VP	40	P3		85		AL	71				7 7
L							6A				7	5					3									94					1 1
P		95.5	97.5			PPFX		EX2	PP	5	2				2			P		C/	U30			97		AL	8=				7 7
L							7T										3		3	VP	30					94					1 =
P		97.5	103.6			INBR		RF	BR		1	0						P					P2		84		AL	8=				7 8
L																	3									97					1 =
R	TXT	97.5	103.6		SOME FRAGS MORE MOTTLED THAN 88.7-95.4M																												
R	XRD	98.8	98.8		THIN SECT + X-RAY DICKITE ALUNITE																												
N		99.1	100.0		X	INBR		RF	BR		1	0						N		FR	10	P2		87		AL	8=				7 8
L																	9									97					1 =
N		101.8	102.1		X	FAUL												N						C7			9+				
L																							87								
N		102.9	103.0		X	FAUL												N						C9			8=				
P		103.6	104.5			PPFX		EX3	PP		J	3	K		5			P	1	VP	20			95		AL	81				7 8
L							4T	QZ=									9		4	SH						97					1 1
R	LTH	103.6	104.5		NOT SAME AS PREVIOUS PPFX. THIS APPEARS MORE LEUCOCRAT																												
P		104.5	106.4			PPFX		EX3	PP		J							P				98										7 5

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC150 (CONTINUED)

KEY	FLAG	FROM	TO	CORE RECOVERY (FT.1)	% MIX	ROCK TYPE	TYPIFYING MINERALS 1	TYPIFYING MINERALS 2	QUALITATIVE MATRIX QM1	TEXTURES 1	TEXTURES 2	GRAIN CHARACTERS F	C	%	M	FRACTURE #	TK	STRUCTURE-1 T1	ID	STK AZM	DIP RT	ALTERATION MINS H A QZ	H A BI	H A CY	H A CB	H A MG	H ANY XX	ORE-TYPE MINS H A PY	H A CP	H A GL	H ANY YY	SUMMARY
																		STRUCTURE-2 T2													
L							3A									9															1 1
P		106.4	111.5			PPEX			EX3	PP		J	3	K		P					98		96			AL	8=				7 8
L							6A		QZ=							3						4				3					1 +
R	LTH	106.4	111.5			HAS INTRUS APPEARANCE AS DO ABOVE PPEX																										
N		106.8	107.3			X FAUL			EX3	PP		J	3	K		N					98		P7			AL	8=				7 8
L							6A		QZ=							X						4				3					1 +
N		108.7	109.4			X FAUL										N					P6		96				81				7 7
L							4A									X															1 1
P		111.5	114.6			PPEX			EX3	PP		J	3	K		P					98		96			AL	8=				7 8
L							5A		QZ=							5						5				/					1 =
R	XRD	112.5	112.5			X-RAY OF ILLITE ALUNITE. THIN SECTION																										
N		113.7	114.0			X FAUL										N							5				9+				
L							7A									X															
P		114.6	124.0			PPEX			EX3	PP		J	3	J		P					P5		96			AL	81				4 6
L							5A		QZ=							9						4				3					1 1
R	LTH	114.6	124.0			IN THIS FAULTY ZONE RK HAS APPEAR OF E.G PORPH DIOR																										
P		124.0	126.3			PPEX			EX3	PP		J	3	K		P					P3		96			AL	81				4 7
L							5A		QZ=							3						4				3					1 1
N		125.6	126.3			X FAUL										N							8				8=				
L							5A									X						6									1 =
P		126.3	141.4			PPEX			EX3			5	3	K		P					P6		87				9=				4 8
L							3A		QZ=							6						?									1 =
R	LTH	126.3	141.4			APPEARS TO BE SAME AS UNIT ABOVE. POSS BVAP?																										
R	TXT	126.3	141.4			SUBHED TO ANHED																										
R	XRD	126.5	126.5			THIN SECT. + X-RAY OF WHT-TAN COL FLECKS = DICKITE THIN																										
R	XRD	126.5	126.5			SECTION																										
N		132.6	133.5			X FAUL			EX							N							PX				91				
N		135.3	135.8			X FAUL			EX							N							PX								
N		137.2	141.4			X PPEX			EX7			5	3	K		N					P6		P8				9=				4 8
L							3A		QZ=							6						?									1 =
N		138.4	138.6			X FAUL			EX							N							PX				91				
N		140.4	140.8			X FAUL			EX							N							PX				9=				

S U M M A R Y R E M A R K S

THE DRILL HOLE PASSES THROUGH OVERBURDEN AT 17.1 INTO A SEQUENCE OF STR ALT BONANZA VOLCS INCLUDING PPEX 17.1-20.4 95.6-97.5+103.6-141.4 AND BVAB 20.4-41.2 + MONOMICTIC BR FROM 88.7-103.6 (INBR) POSS AN INTRUS BR. THE SEQUENCE IS

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC150 (CONTINUED)

S U M M A R Y R E M A R K S

CUT BY GRDR (ISGD) 79.6-88.7 WITH SHORT INTERMITTENT
SECTIONS OF VOLCS
A ZONE OF INTENSE SILIC EXTENDS FROM 20.42-79.55. ABOVE + BELO
RX ARE ALT TO ADV ARGILLIC FACIES (DICKITE + ALUNITE). AT
ABOUT 114.6 THE CLAY GIVES WAY TO ILLITE, DIAGNOSTIC OF ALT
TRANSITIONAL BETWEEN ARGILLIC + PHYLLIC. THE GRDR IS
MODERATELY ALT TO ARGILLIC
PT CONTENT IS NIL IN THE ZONE OF INTENSE SILIC. ABOUT 5-8%
IN PPFX, 10% IN BVAB + TR IN GRDR. THE ZONE OF OXIDATION
EXTENDS FROM 17.1-90.2.
FRACTURING IS GEN WK - MOD EXCEPT FROM 103.6-126.2 WHERE
IT IS STR. SIGNIFICANT FAULTS OCCUR FROM 21.6-25.,
63.5-67.5, 73.5-75.6 SEVERAL 0.2-1M FAULTS OCCUR FROM
103.6-141.4.
CU ASSAYS ARE .01-.02%
MO AVERAGES .005% IN THE ZONE OF INTENSE SILIC
BELOW VALUES ARE .001% OR LESS
AU RANGES UP TO ONLY 40 PPB

ADO1 A N A L Y T I C A L D A T A

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	RQD % W-CORE FIELD HAND	Cu % H-CORE ICM XRF	Mo % H-CORE ICM XRF	Fe % H-CORE ICM XRF	Au ppm H-CORE ICM FA	Ag ppm H-CORE ICM FA	As ppm H-CORE ACME ICP	Sb ppm H-CORE ACME ICP	Te ppm H-CORE ACME AA
A 01	.0	15.5											
A 01	15.5	16.8	90	751	33	.02	.002	2.60	.02	.05	16	2	3.8
A 01	16.8	18.3	84	754	49	.02	.002	2.20	.02	.02	6	2	1.2
A 01	18.3	19.8	83	752	53	.02	.002	3.60	.02	.04	7	2	2.1
A 01	19.8	21.3	100	755	80	.02	.004	1.10	.02	.03	7	2	2.2
A 01	21.3	22.9	100	753	45	.02	.003	1.70	.01	.04	12	2	1.5
A 01	22.9	24.4	97		75								
A 01	24.4	25.9	96	756	83	.02	.001	0.50	.02	.03	2	2	0.1
A 01	25.9	27.4	83		63								
A 01	27.4	28.9	80	757	58	.02	.017	1.90	.01	.02	6	2	1.9
A 01	28.9	30.5	96		77								
A 01	30.5	32.0	100	758	82	.02	.003	0.90	.02	.05	2	2	0.5
A 01	32.0	33.5	100		87								
A 01	33.5	35.0	100	759	88	.02	.004	0.80	.03	.06	2	2	0.7
A 01	35.0	36.6	92		58								
A 01	36.6	38.1	90	760	50	.02	.004	0.70	.02	.05	2	2	0.3
A 01	38.1	39.6	90		56								
A 01	39.6	41.1	82	761	53	.02	.004	0.60	.03	.04	2	2	0.1
A 01	41.1	42.7	80		34								
A 01	42.7	44.2	80	762	29	.02	.005	0.80	.02	.09	3	2	0.1
A 01	44.2	45.7	93		49								
A 01	45.7	47.2	98	763	54	.02	.004	0.50	.01	.07	2	2	0.1
A 01	47.2	48.8	100		65								
A 01	48.8	50.3	100	764	68	.02	.004	0.60	.02	.13	2	2	0.1
A 01	50.3	51.8	92		48								
A 01	51.8	53.3	90	765	43	.02	.005	0.90	.01	.07	3	2	0.5

UTAH MINES LTD., VANCOUVER B.C.
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DRILLHOLE/TRAVERSE : DDHEC150 (CONTINUED)

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	AD01 A N A L Y T I C A L D A T A RQD % W-CORE FIELD HAND	Cu % H-CORE ICM XRF	Mo % H-CORE ICM XRF	Fe % H-CORE ICM XRF	Au ppm H-CORE ICM FA	Ag ppm H-CORE ICM FA	As ppm H-CORE ACME ICP	Sb ppm H-CORE ACME ICP	Te ppm H-CORE ACME AA
A 01	53.3	54.9	92		62								
A 01	54.9	56.4	92	766	67	.02	.005	0.70	.01	.02	2	2	0.1
A 01	56.4	57.9	94		72								
A 01	57.9	59.4	100	767	73	.02	.004	0.50	.01	.04	2	2	0.1
A 01	59.4	61.0	86		38								
A 01	61.0	62.5	83	768	29	.02	.005	0.90	.03	.14	2	2	0.5
A 01	62.5	64.0	63		51								
A 01	64.0	65.5	58	769	57	.02	.008	2.40	.02	.04	3	2	1.3
A 01	65.5	67.0	44		11								
A 01	67.0	68.6	47	770	0	.02	.005	1.30	.02	.02	2	2	0.3
A 01	68.6	70.1	67		6								
A 01	70.1	71.6	72	771	8	.01	.004	0.20	.03	.02	2	2	0.3
A 01	71.6	73.2	62		12								
A 01	73.2	74.7	60	772	13	.01	.003	3.50	.01	.06	2	2	0.6
A 01	74.7	76.2	82		12								
A 01	76.2	77.7	88	773	12	.01	.001	2.30	.02	.06	2	2	1.0
A 01	77.7	79.2	86		37								
A 01	79.2	80.8	86	774	43	.01	.001	3.30	.02	.06	2	2	1.7
A 01	80.8	82.3	61		26								
A 01	82.3	83.8	55	775	22	.01	.001	1.6	.01	.12	3	2	0.9
A 01	83.8	85.3	57		19								
A 01	85.3	86.9	57	776	18	.01	.001	3.90	.02	.10	6	2	1.2
A 01	86.9	88.4	50		12								
A 01	88.4	89.9	59	777	8	.01	.001	3.90	.02	.14	11	3	1.7
A 01	89.9	91.4	88		66								
A 01	91.4	93.0	95	778	81	.01	.001	6.3	.03	.12	9	2	1.5
A 01	93.0	94.5	93		79								
A 01	94.5	96.0	86	779	73	.01	.001	4.70	.04	.10	9	2	1.1
A 01	96.0	97.5	97		72								
A 01	97.5	99.1	100	780	72	.01	.001	6.90	.04	.06	7	2	0.4
A 01	99.1	100.6	58		32								
A 01	100.6	102.1	47	781	22	.01	.001	7.50	.01	.08	5	2	2.0
A 01	102.1	103.6	80		43								
A 01	103.6	105.1	60	782	27	.01	.001	7.00	.02	.02	5	2	1.7
A 01	105.1	106.7	45	783	3	.01	.001	7.20	.02	.02	2	2	3.2
A 01	106.7	108.2	60	784	4	.01	.001	8.80	.01	.04	2	2	2.3
A 01	108.2	109.7	49		11								
A 01	109.7	111.3	43	785	16	.01	.001	3.00	.01	.06	3	2	0.2
A 01	111.3	112.8	69		26								
A 01	112.8	114.3	70		23								
A 01	114.3	115.8	42	786	0	.01	.001	6.8	.03	.04	4	2	2.1
A 01	115.8	117.3	30		0								
A 01	117.3	118.9	44		3								
A 01	118.9	120.4	57	787	5	.01	.001	4.90	.03	.05	5	2	0.2
A 01	120.4	121.9	61		0								
A 01	121.9	123.4	41		0								
A 01	123.4	125.0	51	788	0	.01	.001	3.90	.04	.07	12	2	0.4

UTAH MINES LTD., VANCOUVER B.C.
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DRILLHOLE/TRAVERSE : DDHEC150 (CONTINUED)

AD01 A N A L Y T I C A L D A T A

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	RQD % W-CORE FIELD HAND	Cu % H-CORE ICM XRF	Mo % H-CORE ICM XRF	Fe % H-CORE ICM XRF	Au ppm H-CORE ICM FA	Ag ppm H-CORE ICM FA	As ppm H-CORE ACME ICP	Sb ppm H-CORE ACME ICP	Te ppm H-CORE ACME AA
A 01	125.0	126.5	55		1								
A 01	126.5	128.0	91		10								
A 01	128.0	129.5	91	789	10	.01	.001	4.00	.01	.01	9	2	0.1
A 01	129.5	131.1	98		10								
A 01	131.1	132.6	98		10								
A 01	132.6	134.1	38	790	0	.01	.001	4.40	.01	.03	9	2	0.4
A 01	134.1	135.6	38		0								
A 01	135.6	137.2	96		45								
A 01	137.2	138.7	96	791	43	.01	.001	3.80	.01	.04	9	2	0.5
A 01	138.7	140.2	96		20								
A 01	140.2	141.4	96	792	54	.01	.001	5.00	.02	.04	8	2	0.8

AD02 A N A L Y T I C A L D A T A

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	Pb ppm H-CORE ACME ICP	Zn ppm H-CORE ACME ICP	Co ppm H-CORE ACME ICP	Bi ppm H-CORE ACME ICP	Ba ppm H-CORE ACME ICP
A 02	.0	15.5							
A 02	15.5	16.8		751	31	5	0.1	61	2
A 02	16.8	18.3		754	14	4	0.1	117	2
A 02	18.3	19.8		752	16	6	0.3	64	2
A 02	19.8	21.3		755	11	3	0.1	75	2
A 02	21.3	22.9		753	30	3	0.2	70	2
A 02	22.9	24.4							
A 02	24.4	25.9		756	27	3	0.2	72	2
A 02	25.9	27.4							
A 02	27.4	28.9		757	52	4	0.1	98	2
A 02	28.9	30.5							
A 02	30.5	32.0		758	15	3	0.1	94	2
A 02	32.0	33.5							
A 02	33.5	35.0		759	7	3	0.3	98	2
A 02	35.0	36.6							
A 02	36.6	38.1		760	9	2	0.2	139	2
A 02	38.1	39.6							
A 02	39.6	41.1		761	6	3	0.2	93	2
A 02	41.1	42.7							
A 02	42.7	44.2		762	2	2	0.2	107	2
A 02	44.2	45.7							
A 02	45.7	47.2		763	6	2	0.2	73	2
A 02	47.2	48.8							
A 02	48.8	50.3		764	18	2	0.3	93	2
A 02	50.3	51.8							
A 02	51.8	53.3		765	6	3	0.2	82	2
A 02	53.3	54.9							
A 02	54.9	56.4		766	2	3	0.1	102	2
A 02	56.4	57.9							

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC150 (CONTINUED)

A UNM	FROM	TO	RECOV	SAMPLE	AD02 A N A L Y T I C A L D A T A Pb ppm H-CORE ACME ICP	Zn ppm H-CORE ACME ICP	Co ppm H-CORE ACME ICP	Bi ppm H-CORE ACME ICP	Ba ppm H-CORE ACME ICP
A TYP									
A LAB									
A MTH									
A 02	57.9	59.4		767	2	2	0.2	71	2
A 02	59.4	61.0							
A 02	61.0	62.5		768	8	2	0.1	118	2
A 02	62.5	64.0							
A 02	64.0	65.5		769	9	3	0.1	99	2
A 02	65.5	67.0							
A 02	67.0	68.6		770	2	3	0.2	76	2
A 02	68.6	70.1							
A 02	70.1	71.6		771	2	2	0.2	65	2
A 02	71.6	73.2							
A 02	73.2	74.7		772	4	4	0.2	45	2
A 02	74.7	76.2							
A 02	76.2	77.7		773	10	5	0.1	76	2
A 02	77.7	79.2							
A 02	79.2	80.8		774	11	4	0.1	31	2
A 02	80.8	82.3							
A 02	82.3	83.8		775	6	3	0.1	12	2
A 02	83.8	85.3							
A 02	85.3	86.9		776	6	3	0.1	27	2
A 02	86.9	88.4							
A 02	88.4	89.9		777	18	154	0.1	49	2
A 02	89.9	91.4							
A 02	91.4	93.0		778	23	13	0.2	43	3
A 02	93.0	94.5							
A 02	94.5	96.0		778	9	10	0.1	31	2
A 02	96.0	97.5							
A 02	97.5	99.1		780	19	15	0.1	60	2
A 02	99.1	100.6							
A 02	100.6	102.1		781	16	13	0.1	38	2
A 02	102.1	103.6							
A 02	103.6	105.1		782	27	21	0.1	42	2
A 02	105.1	106.7		783	40	19	0.1	62	2
A 02	106.7	108.2		784	31	24	0.1	54	2
A 02	108.2	109.7		785	16	8	0.1	20	2
A 02	109.7	111.3							
A 02	111.3	112.8							
A 02	112.8	114.3							
A 02	114.3	115.8		786	26	18	0.1	44	2
A 02	115.8	117.3							
A 02	117.3	118.9							
A 02	118.9	120.4		787	24	23	0.1	41	2
A 02	120.4	121.9							
A 02	121.9	123.4							
A 02	123.4	125.0		788	9	115	0.1	34	2
A 02	125.0	126.5							
A 02	126.5	128.0							
A 02	128.0	129.5		789	8	104	0.1	34	2

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC150 (CONTINUED)

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	AD02 A N A L Y T I C A L D A T A Pb ppm H-CORE ACME ICP	 Zn ppm H-CORE ACME ICP	 Co ppm H-CORE ACME ICP	 Bi ppm H-CORE ACME ICP	 Ba ppm H-CORE ACME ICP
A 02	129.5	131.1							
A 02	131.1	132.6							
A 02	132.6	134.1		790	10	96	0.1	32	2
A 02	134.1	135.6							
A 02	135.6	137.2							
A 02	137.2	138.7		791	10	101	0.1	42	2
A 02	138.7	140.2							
A 02	140.2	141.4		792	7	93	0.1	28	2

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE :DDHEC151

PROJECT IDEN : EXPO
COLLAR NORTHING: 238290.00
TOTAL LENGTH : 108.81
START DATE : 85/ 5/ 4
COLLAR EASTING : 235530.00
CORE/HOLE SIZE : NQ
COMPLETION DATE : 85/ 5/ 6
COLLAR ELEVATION: 426.72
MACHINE TYPE :
GEOLOGGED BY : HRM +
GRID AZIMUTH :
CONTRACTOR : LONGYR

SURVEY FLAG 000 | SURVEY POINT LOCATION .0 | FORESIGHT | AZIMUTH (DEGREES) | VERTICAL ANGLE (DEGREES) -90.00 | NORTHING | EASTING

KEY	F L A G	- INTERVAL - (UNITS = FT) FROM	TO	CORE RECOVERY (FT.1)	% MIX	ROCK TYPE	TYPIFYING TM 1	TYPIFYING TM 2	QAL MIN MAT QM1	QM2	TEXTURES TX 1	TX 2	GRAIN CHARACS F	C	%	M P	#	TK	FRACTURE DIP	F I	STRUCTUR-1 T 1	ID AZM	STK DIP RT	ALTERATION MINS H A QZ	H A BI	H A CY	H A CB	H A MG	H A ANY MIN XX	ORE-TYPE MINS H A PY	H A CP	H A GL	H A ANY MIN YY	SUMMARY
K	F			ROCK	FOR	EN	RT		TM	QM2	TX	TX	S	R	S	O	DIP	F			T	ID	STK DIP	KF	MU	CL	EP	HE	HA	PR	MO	SL	HA	
E	L			QUAL	MEM	V	Q	LC-	3		3	4	O	N	H	/	SML	I			2		AZM RT			H	H	H	H	H	H	H	H	
Y	G			DESIG	AGE			COL					R	D	P	C							STRUCTUR-2			A	A	A	A	A	A	A	A	
P		.0	.6					STKP													P													
P		.6	6.1					OVER													P													
P		6.1	7.3					BVAL	VF		QF=	FR	5	6	7	7		6			P			P7		75				6=				3 8
L									7A					7	5	C		2																1 =
R	TXT	6.1	7.3	VAGUE FRAG TXT POSS CRACKLING DUE TO H/L PY VEINING																															
R	ALT	6.1	7.3	SELVAGED BY LIGHT BEIGE CLAY? IMPRESSION OF																															
R	ALT	6.1	7.3	STREAMING. PROB SILIC STR HEALING FRCTS																															
R	LTH	6.1	7.3	HARD BUT POSS FELSIC RATHER THAN SILIC ALT. DAC?																															
P		7.3	10.8					BVAT			QZ+										P			95		P7				81				3 8
L									6T									2																1 1
R	CON	7.3	10.8	COULD BE CONT RELATIONSHIP W DECREASE IN GR SIZE																															
R	LTH	7.3	10.8	PROB TUFF BED																															
R	XRD	10.4	10.4	THIN SECT. WHT FLECKS = DICKITE. DICKITE IN TAN COL MTRX																															
P		10.8	16.1					BVAL			VE6	FR	K	N	7	P					P	7	VQ	30	P7	87				61				3 8
L									3A		QF1			5		C		3					BD	45										1 1
R	CON	10.8	16.1	UPPER CON BLEACHED																															
R	TXT	10.8	16.1	LAP - BR GEN TIGHT PACK CHAOTIC POLYLITH VARIETY SHAPE																															
R	CON	10.8	16.1	POLYLITH MOST DK ANDS. SOME V SILIC VOLC. QTZ, VOL POR																															
R	STR	10.8	16.1	VAGUE SENSE OF BEDDING AT ABOUT 45 DEGREES																															
R	VEN	10.8	16.1	ABOUT 8" QZ VEN CRACKLED. BRECCIATION ON F.W 2' H W OF																															
R	VEN	10.8	16.1	STR PY STRINGERS SOME H/L PY IN FRCTS IN QZ																															
N		12.0	12.6			X		BVAL			VE6	FR	K	N	7	P					N	7	VQ	30	P8	87				62				3 8
L									3A		QF1			5		C		3					BD	45										1 1
R	LTH	13.6	14.6	REPRESENTS FINER GR BED IN VOLC SEQUENCE																															
N		13.6	14.6			X		BVAT			VE1		4	L	2	M					N										8=				
L									4A		QF=			7		O																			
R	XRD	15.2	15.2	THIN SECT + X-RAY OF ALT MIN = DICKITE																															
P		16.1	20.1					BVAT	XE		RE1		2	5	1						P		C/	U45	P5	95				81				3 6
L									6T		QF=							3					C/	B25										1 1

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC151 (CONTINUED)

KEY	FL AG	- INTERVAL - (UNITS = FT) FROM	TO	CORE RECOVERY (FT.1)	% MI X	ROCK TYPE	TYPIFYING MIN TM 1	TYPIFYING MIN TM 2	QAL MIN MAT QM1	TEXTURES TX 1	TEXTURES TX 2	GRAIN CHARACS F	GRAIN CHARACS C	GRAIN CHARACS %	FRACTURE M P	FRACTURE #	FRACTURE TK	STRUCTUR-1 T 1	STRUCTUR-1 ID	STRUCTUR-1 STK AZM	STRUCTUR-1 DIP RT	ALTERATION MINS H A QZ	ALTERATION MINS H A BI	ALTERATION MINS H A CY	ALTERATION MINS H A CB	ALTERATION MINS H A MG	ALTERATION MINS ANY A XX	ORE-TYPE MINS H A PY	ORE-TYPE MINS H A CP	ORE-TYPE MINS H A GL	ORE-TYPE MINS ANY A YY	SUMMARY
KEY	FL AG			ROCK QUAL DESIG	FOR MEM AGE	EN V / RT Q	TM LC- COL 3	TM QM2 3	TX 3	TX 4	S O N R R D	S H P C	O / DIP SML	F I				STRUCTUR-2 T 2		ID STK AZM DIP RT		KF	MU	CL H A	EP H A	HE H A	HA H A	PR H A	MO H A	SL H A	HA H A	
R	CON	16.1	20.1																													VOL LAP FRAGS DECREASE AWAY FROM CONT MORE PY NEAR
R	CON	16.1	20.1																													CONT. FRAGS POSS XENOS + THIS IS INTRUS CONT
R	ALT	16.1	20.1																													SOME QZ ALT? WK CY. MAFICS ALT TO PY-CY CLOTS
R	LTH	16.1	20.1																													FINE QZ IN MTRX ABOUT 10% QTZ DAC DIKE?
N		17.7	18.3			X ISDR											3	N				P5		95			81				3 6
L							5A																									1 1
N		18.4	19.6			X BVAT	XE		RE1			2	5	1				N		C/	U45	P5		95			V+				3 6
L							7A		QF=								3			C/	B25										1 +
P		20.1	21.3			BVAB			VF4	FR		7	4	8				P		FL	25	86		82			81				3 6
L							4A					7		0			2														1 1
R	TXT	20.1	21.3																													FLOW TXT W VAGUE PHENOS AROUND FRAGS. MANY FRAGS ALSO
R	TXT	20.1	21.3																													HAVE PY HALOS. FLOW TOP? WELL PRESERVED
R	ALT	20.1	21.3																													RK HARD POSS FAIRLY STR SILIC V LITTLE SOFT MIN ALT
R	MIN	20.1	21.3																													PY AS FRAG HALOS + LARGE WISPY PATCHES
P		21.3	29.6			BVAT			RF	FR								P	3	BD	75	P7		83			8=				3 7
L							3A										3															1 =
R	ALT	21.3	23.5																													VERY HARD PROB SILIC
R	TXT	21.3	23.5																													SOME SECTS W VAGUE LAP TXT. SHORT SECTS OF TUFF LAM + BD
R	STR	21.3	23.5																													CRISS CROSS FRCTS HEALED W H/L PY-QZ
R	MIN	27.4	28.4																													LIM STAIN OVER 4 IN VUGGY ZONE
N		27.4	28.4			X BVAT			RF	FR								N	3	BD	75	P9		Q3			81				3 7
L							3A										3															1 =
N		27.4	27.7			X FAUL												N				P9		Q3			8+				
L							3A																									
P		29.6	32.0			BVAB			RF	FR							7	P	3	BD	75	P7		83			81				3 7
L							4A										3															1 1
R	TXT	29.6	32.0																													GEN VAGUE SOMEWHAT CHAOTIC AUTOBX? SHATTER?
R	MIN	29.6	32.0																													PY AS IRREG H/L TO IMM STRGRS ALSO FINE DISSM
R	LTH	30.6	30.9																													INTRUS POSS TUFF W WHT CLAY COARSE ASH FRAGS
N		30.6	30.9			X PPFX			FX3	PP		5	3					N				P7		Q3			81				
L							4A																									1 1
P		32.0	34.5			BVAT			RF	FR								P	3	BD	75	P7		83			81				3 7
L							3A										2															1 1
N		34.3	34.5			X BVAT			RF	FR								N	3	BD	75	P7		83			8=				3 7
L							3A										9															1 =
P		34.5	34.7			BVAF			VF2			6	2	N				P		BD	35											
L												3																				
R	LTH	34.5	34.7																													FLOW W V FINE FX PHEN 20% V SILIC-PY XENOS
P		34.7	41.5			BVAT			QF1			5	1	L				P				P7				AL	9=				3 7

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC151 (CONTINUED)

KEY	FLAG	FROM	TO	CORE RECOVERY (FT.1)	%MIX	ROCK TYPE	TYPIFYING MINERALS TM1	TM2	QUALIFYING MINERALS MAT QM1	TEXTURES TX1	TX2	GRAIN CHARACS F	C	%	M	#	TK	FRACTURE	STRUCTUR-1 T1	ID	STK AZM	DIP RT	ALTERATION MINS H A QZ	H A BI	H A CY	H A CB	H A MG	H ANY MIN XX	ORE-TYPE MINS H A PY	H A CP	H A GL	H ANY MIN YY	SUMMARY
K EY	F L AG	FROM	TO	ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q	TM LC- COL	QM2 3	TX3	TX4	S O R	R D	S H P	O / C	DIP SML	F I		T2	ID	STK AZM	DIP RT STRUCTUR-2	KF	MU H A	CL H A	EP H A	HE H A	HA H A	PR H A	MO H A	SL H A	HA H A	
L								TA	RF+								1							P5				P/					1 =
R	TXT	34.7	41.5					FRAGS ARE STRECHED MOSTLY QZ SOME ARE ROUNDED + SOME																										
R	TXT	34.7	41.5					SMALL QZ EYES. APPEAR TO BE A FEW RELIC FX PHENOS																										
R	STR	34.7	41.5					AT 41.15 SOFT SED SLUMP? OR FLOW TOP BX QZ FILLED																										
R	XRD	37.5	37.5					THIN SECT. ALUN OCC LOCALLY IN MTRX (37.49) ALSO PROB																										
R	XRD	37.5	37.5					ILLITE																										
R	XRD	40.5	40.5					X-RAY OF DICKITE. IN THIN SECT ALSO TR ILLITE? ALUN?																										
P		41.5	43.9					BVAN										P						P6		P2			8+				3 7
L								5A									3																1 +
R	LTH	41.5	43.9					BELOW SLUMP FEATURE RK SEEMS TO GRADE TO ANDS																										
P		43.9	49.8					BVAP		FX4	PP		J	4		6		P						P6		Q3			7=				3 6
L								4A		BR						4																	1 =
R	MIN	43.9	49.8					PY AS IRREG STRGRS DISSM. + FINE DUST IN MTRX 7-8%																										
R	TXT	43.9	49.8					OVER SHORT SECTS TXT VAGUE. SOME FLOW BR NEAR																										
R	TXT	43.9	49.8					UPPER CONTACT																										
R	ALT	43.9	49.8					NOT SURE HOW MUCH SIL PRIMARY. INDURATED? PHENO ALT																										
R	LTH	49.2	49.8					SIMILAR IN APPEAR TO 34.74-41.45 MORE PY. QZ FRAGS APPEAR																										
R	LTH	49.2	49.8					TO BE LARGELY ASH SHARDS (STRETCHED PHENOS?) BUT SOME																										
R	LTH	49.2	49.8					ROUND EYES. XL TUFF?																										
R	CON	49.2	49.8					2 CM WIDE BLEACHED CHILL MARGIN W V FINE FSP LATHS																										
R	MIN	49.2	49.8					PY IN 2-3MM PATCHES. REPLACING AS FRAGS?																										
R	ALT	49.2	49.8					V HARD DOESN'T LOOK SILICIFIED																										
N		49.2	49.8		X	BVAT		QZ1	FR			5	1	6			N		C/		B45							Q1					
L								TA	RF+	PP		7			1										1								1 1
P		49.8	54.7					BVAP		FX4	PP		J	4		6		P	4	VA		55	56		Q3			7=				3 6
L								4A		BR						3																	1 =
R	TXT	49.8	54.7					PP TXT MORE VAGUE BUT OTHERWISE SIMILAR AS 43.89-49.38																										
R	STR	49.8	54.7					H/L TO 2 CM PY VLTS W QTZ ENVELOPES HEALING FRCTS																										
R	MIN	50.4	50.5					PY AS 1-2 CM PATCHES. STR PY IN HW OF COUNTRY RK																										
R	TXT	50.4	50.5					FLOW TXT. SOME XENOLITHS V FINE PHENOS. EXTRUS.																										
N		50.4	50.5		X	DA/D			FX2	PP		I	2				N											Q+					
L								7T																	95								
P		54.7	62.6					BVAN			VG						P		VQ		30	8X		Q2								9 X
L								5A								5																	0 0
R	LTH	54.7	62.6					ABRUPT CHANGE + SAME AS INTENSE SILIC BVAN ELSEWHERE																										
R	LTH	54.7	62.6					CONTAM BY PY + WK CY NEAR CONTACTS																										
R	TXT	54.7	62.6					VAGUE VNING WITHIN																										
N		54.7	56.2		X	BVAN			VG								N		VQ		30	8X		Q2			V)					9 X
L								5A								5																	0 0
N		56.2	58.2		X	BVAN			VG								N		VQ		30	8X		Q2								9 X

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC151 (CONTINUED)

KEY	FLAG	- INTERVAL - (UNITS = FT) FROM	TO	CORE RECOVERY (FT.1)	% MIX	ROCK TYPE	TYPIFYING TM 1	TYPIFYING TM 2	QAL MIN MAT QM1	QM2	TEXTURES TX 1	TEXTURES TX 2	GRAIN CHARACS F	C	%	M	FRACTURE #	TK	STRUCTUR-1 T 1	ID	STK AZM	DIP RT	ALTERATION H A QZ	H A BI	H A CY	H A CB	H A MG	MINS H ANY XX	ORE-TYPE H A PY	H A CP	H A GL	MINS H ANY YY	SUMMARY
KEY	FLG			ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q	LC- COL	TM 3		TX 3	TX 4	OR	NH	SP	OC	DIP SML	FI	T 2	ID	AZM	RT STRUCTUR-2	KF	MU	CL H A	EP H A	HE H A	HA H A	PR H A	MO H A	SL H A	HA H	
L								5A										5															0 0
N		60.8	62.6			X	BVAN				VG							N		VQ		30	8X		Q2			V)				9 X
L								5A										5															0 0
P		62.6	71.6				BVAN				BR							P					89					61				9 X
L								2A										2															1 1
R	LTH	62.6	71.6	THIS IS FW OF QTZ ZONE CONSISTS OF QTZ-PY. SMALL																													
R	LTH	62.6	71.6	CY CLOTS POSS AFTER FX. LOCAL BR TXT. LOCAL VUGGY																													
R	MIN	62.6	71.6	PY AS IRREG STRGRS PATCHES FRAGS W QTZ ENVELOPES																													
N		64.0	65.2			X	BVAN				BR							N					89					62				9 X
L								2A										2															1 1
N		68.6	69.2			X	BVAN				BR							N					89					62				9 X
L								2A										2															1 1
N		70.4	71.0			X	BVAN				VG							N					9X					61				9 X
L								2A										2															1 1
P		71.6	80.9				BVAT				FR		K	1	N			P	7	BN		60	64		86		AL	8=				4 6
L								6A					7	3	0			4						P4			?					1 1
R	STR	71.6	80.9	AT 71.93 ZONE OF FLATTENED PUMICE BALLS?																													
R	STR	71.6	80.9	STRETCHED BENDING AROUND LARGER VOLC + FEW QZ FRAGS																													
R	STR	71.6	80.9	TUFF LAM? BELOW THIS IS FLOW TOP BR																													
R	TXT	71.6	80.9	MOSTLY ORIENTED CLEAR QZ FRAGS. MOST STRETCHED																													
R	MIN	71.6	80.9	VARIABLE PY POSS DUE TO ORIG COMP VERY HARD																													
R	XRD	71.9	71.9	ILLITE (THIN SECT) DICKITE (T.S. + X-RAY) POSS MINOR																													
R	XRD	71.9	71.9	ALUN (T.S.)																													
N		73.4	74.2			X	BVAT				FR		K	1	N			N	7	BN		60	64		86		AL	81				4 6
L								7A					7	3	0			4						P4			?					1 1
R	CON	76.2	76.8	AT 76.2 SAME STR FEATURE AS 71.93																													
N		76.2	76.8			X	BVAN											N	7	BN		60	P7		P7			8+				4 8
L								5A										8						?									1 +
N		78.3	78.4			X	FAUL											N							P6			81				
L																		X															
R	TXT	78.4	79.9	RELIC POR TXT LOCAL FX CY SER? ALT																													
R	MIN	78.4	79.9	MOSTLY V FINE DUST PY 10-15% SOME PY-SER, PY - QZ VLTS																													
N		78.4	79.9			X	BVAP				PP							N							P6			81				4 6
L																								P6								1 1
N		79.9	80.2			X	FAUL											N							P9			81				
L																		X															
P		80.9	82.4				BVAN											P							87			9=				4 7
L								4A										5															1 =
R	ALT	80.9	82.4	SER PERV ALSO AS H/L - 2MM SER W DISSM PY. BLEACH																													
R	ALT	80.9	82.4	SELVAGE																													
R	TXT	80.9	82.4	CONTAINS 25% ROUNDED 3-4 MM BUFF COLOURED SPOTS WHICH																													

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC151 (CONTINUED)

KEY	FLAG	- INTERVAL - (UNITS = FT) FROM	TO	CORE RECOVERY (FT.1)	% MIX	ROCK TYPE	TYPIFYING MINERAL TM 1	TM 2	QAL MAT QM1	TEXTURES TX 1	TX 2	GRAIN CHARACS F	C	%	M	#	FRACTURE TK	STRUCTUR-1 T 1	ID	STK AZM	DIP RT	ALTERATION MINS H A QZ	H A BI	H A CY	H A CB	H A MG	H ANY MIN XX	ORE-TYPE MINS H A PY	H A CP	H A GL	H ANY MIN YY	SUMMARY
KEY	FLAG			ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q	TM LC-COL 3	QM2	TX 3	TX 4	S O R	R N D	S H P	O / C	DIP SML	F I	T 2	ID	STK AZM	DIP RT	KF	MU	CL H A	EP H A	HE H A	HA H A	PR H A	MO H A	SL H A	HA H	
R	TXT	80.9	82.4							CONSIST OF CLEAR CORE OF SER W PY ENVEL BY BUFF CY?																						
R	TXT	80.9	82.4							-PYROPH + SER MIX W FINER PY																						
N		81.5	82.4		X	BVAN											N					73		87				9=				4 7
L							4A									9																1 =
P		82.4	87.5			PPEX			EX4	PP		J	4			5	P					84		87				81				4 8
L							4A		QZ							4							85									1 1
R	CON	82.4	87.5			NO CONT RELATIONS NOTED AWAY FROM CON MORE TXT																											
R	ALT	82.4	87.5			VAGUE FX PHEN ALT IL? CY? + COMMONLY YEL-GRN S.AVSS?																											
R	FRC	82.4	87.5			VAGUE FRCTS HEALED BY PY SELVAGED BY SER																											
R	LTH	82.4	87.5			POSS BVAP HAS CROWDED TXT. APPEARS HYPABYSSAL																											
R	ALT	84.3	84.5			THIN SECT SHOWS CLAY + PROBABLE ILLITE																											
N		84.3	84.5		X	FAUL			EX4	PP		J	4			5	N					84		P8				81				4 8
L							4A		QZ							9							85									1 1
N		85.2	85.8		X	FAUL			EX4	PP		J	4			5	N		SH		10	84		87				8=				4 8
L							4A		QZ							9							85									1 1
P		87.5	90.2			BVAP			EX4	PP		J	4			5	P					84		87				81				4 8
L							4A		QZ							8							85									1 1
N		90.1	90.2		X	FAUL											N							P9								
L																X																
P		90.2	93.1			BVAN				BR						6	P							88				6+				4 8
L							6A									9																1 +
R	TXT	90.2	93.1			PROB CATACLASTIC																											
N		92.6	93.0		X	FAUL											N							P9								
L																X																
P		93.1	98.0			BVAF				VG							P					P5		P7			AL	9+			AL	4 8
L							7A									8						/					?				?	1 +
R	TXT	93.1	98.0			LOCAL VAGUE POR TXT. VUGGY NO FILLS																											
R	LTH	93.1	98.0			MAY BE MORE FELSIC																											
R	ALT	93.1	98.0			HAS BLEACHED APPEARANCE. DUE TO INTRUS?																											
N		95.1	96.0		X	FAUL											N							89								
L																X																
N		97.2	98.0		X	FAUL										5	N							89								
L																X																
P		98.0	101.3			ISQD			QZ2	PP							P		C/		U30			8				9+				4 8
L									FX3							7							/									1 +
R	ALT	98.0	101.3			MAFICS GONE. FX ALT TO CY OR ILLITE																											
N		101.2	101.3		X	FAUL											N							PX				8				
L																X																
P		101.3	108.8			BVAF			QZ	VG							P					P5		P7			AL	8=				4 8

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC151 (CONTINUED)

KEY	FLAG	- INTERVAL - (UNITS = FT) FROM	TO	CORE RECOVERY (FT.1)	% MINI X	ROCK TYPE	TYPIFYING MINERAL TM 1	TM 2	ALTERATION MINERAL MAT QM1	TM 1	TM 2	GRAIN CHARACTERISTICS F	C	%	M	FRACTURE #	TK	STRUCTURE-1 T 1	ID	STK AZM	DIP RT	ALTERATION MINS H A QZ	H A BI	H A CY	H A CB	H A MG	ANY MIN XX	ORE-TYPE MINS H A PY	H A CP	H A GL	ANY MIN YY	SUMMARY
KEY	FLAG			ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q	LC-COL	TM 3	QM2	TX 3	TX 4	S O R	R N D	S H P	O / C	DIP SML	F I	T 2	ID	STK AZM	DIP RT	KF	MU	CL H H A	EP H A	HE H A	HA H A	PR H A	MO H A	SL H A	HA H A	
L																		8					P6			?						1 =
R	ALT	101.3	108.8		BLEACHED. DUE TO INTRUS?																												
R	ALT	101.7	102.9		SIMILAR TO 83.51 BUT MORE ILLITE (THIN SECT)																												
N L		101.7	102.9		X	BVAE			QZ	VG								N 9					P5 P6		P7		AL ?	8+				4 8 1 =
N L		102.9	104.8		X	FAUL			QZ	VG								N 9		SH		10	P5		P5 P6		AL ?	8+				4 8 1 =
N L		106.0	108.8		8	FAUL												N X							P8 /			8+				4 8 I +

S U M M A R Y R E M A R K S

0-6.1 OVERBURDEN
6.1 43.9
A SEQUENCE OF BONANZA ANDS +/or DAC TUFF LAP TUFF WITH ALT
DIKE POSS DIOR 17.68-18.29 VOLC BR 20.12-21.34,29.57-32.0
THE TUFFS ARE POLYMICT + LOCALLY
APPEAR BEDDED. ALT IS GENERALLY SIR
ARGILLIC (DICKITE). LOCALLY (AT 36.58) ADV. ARGILLIC
(ALUNITE + ILLITE) OCCURS. PY CONTENT IS MOSTLY ABOUT 10%
43.9-54.7
ANDS POR (BVAP). SOME FLOW BR NEAR UPPER CONTACT. ALT. SAME
AS ABOVE. PY ABOUT 5%
54.7-71.6
BVAN. EXTR SILIC. MOSTLY VUGGY LIM STAIN VAGUE QTZ VN.
TO 62.48 NO SULPHS. BELOW 62.48 A QTZ PY ROCK (12% PY)
WITH LOCAL BR TXT LOCAL QTZ-PY VNING
71.6-98.
BONANZA VOLC PACKAGE (SOME DAC?) TUFFS, POR, FLOWS. A
POSS HYPABYSSAL DIKE (PPFX) 82.29-87.48. NARROW ZONES OF
STRETCHED FRAGS + VAGUE TUFF BEDDING. ALT IS PROB
TRANSITIONAL ARGILLIC-PHYLLIC (ILLITE). VERY STRONG
PY ABOUT 10% BELOW 87.48 ABOUT 3% PY
98.-101.2
QTZ DIOR? (ISQD). ALT IS VERY STRONG ARGILLIC OR
TRANSITIONAL. PY 3%
101.2-108.8
BVAE. ALT IS VERY STRONG TRANSITIONAL 5% PY
FRACTURING IS WK - V WK EXCEPT MOD 54.86-62.48, 80.77-87.48
STRONG BELOW 87.48.
FAULTS OCCUR AT 79.86,81.53-82.45,92.65,95.1-96.01,
97.23-98.02,101.19,102.87-104.85,105.98-108.81 .
MO IS MILDLY ANOMALOUS WITHIN PART OF THE SILIC ZONE. AU
VALUES RANGE UP TO ONLY 40 PPB

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC151 (CONTINUED)

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	ADO1 A N A L Y T I C A L D A T A ROD % W-CORE FIELD HAND	Cu % H-CORE ICM XRF	Mo % H-CORE ICM XRF	Fe % H-CORE ICM XRF	Au ppm H-CORE ICM FA	Ag ppm H-CORE ICM FA	As ppm H-CORE ACME ICP	Sb ppm H-CORE ACME ICP	Te ppm H-CORE ACME AA
A 01	.0	6.1											
A 01	6.1	7.6	79	1024	68	.01	.003	4.80	.02	.01	2	2	0.1
A 01	7.6	9.1	77		56								
A 01	9.1	10.7	90	1025	48	.02	.002	5.70	.02	.01	5	2	0.3
A 01	10.7	12.2	98	1026	76	.02	.002	6.90	.04	.01	4	2	0.6
A 01	12.2	13.7	100	1027	83	.03	.003	7.00	.02	.01	10	3	0.6
A 01	13.7	15.2	100		80								
A 01	15.2	16.8	100	1028	79	.03	.003	5.00	.01	.01	9	2	1.
A 01	16.8	18.3	100		67								
A 01	18.3	19.8	100	1029	64	.02	.003	4.20	.01	.02	8	2	0.7
A 01	19.8	21.3	96		68								
A 01	21.3	22.9	96	1030	68	.03	.002	5.50	.01	.01	11	2	3.4
A 01	22.9	24.4	100		66								
A 01	24.4	25.9	100	1031	66	.02	.003	4.40	.01	.05	4	2	0.1
A 01	25.9	27.4	100		46								
A 01	27.4	28.9	100	1032	46	.02	.003	4.60	.01	.09	5	2	0.2
A 01	28.9	30.5	100		64								
A 01	30.5	32.0	100	1033	64	.02	.002	5.20	.01	.04	4	2	0.2
A 01	32.0	33.5	100		50								
A 01	33.5	35.0	100	1034	62	.02	.003	5.50	.01	.01	9	2	0.1
A 01	35.0	36.6	100		80								
A 01	36.6	38.1	100	1035	80	.02	.002	4.60	.02	.01	4	2	0.4
A 01	38.1	39.6	100		63								
A 01	39.6	41.1	100	1036	59	.02	.003	4.30	.01	.01	4	2	0.5
A 01	41.1	42.7	100		61								
A 01	42.7	44.2	100	1037	61	.02	.003	4.50	.01	.09	6	2	0.1
A 01	44.2	45.7	100		50								
A 01	45.7	47.2	96	1038	42	.02	.003	4.60	.01	.04	7	2	0.2
A 01	47.2	48.8	92		53								
A 01	48.8	50.3	92	1039	63	.02	.003	5.30	.01	.04	4	2	0.1
A 01	50.3	51.8	97		66								
A 01	51.8	53.3	100	1040	67	.03	.003	6.50	.02	.09	10	2	0.1
A 01	53.3	54.9	100	1001	53	.01	.001	5.30	.01	.18	4	2	1.2
A 01	54.9	56.4	100	1002	43	.01	.001	1.30	.03	.01	2	2	0.3
A 01	56.4	57.9	100	1003	50	.01	.003	0.12	.04	1.17	2	2	0.2
A 01	57.9	59.4	100	1004	54	.01	.005	4.50	.02	.17	2	2	0.1
A 01	59.4	61.0	97	1005	66	.01	.007	0.90	.03	.10	2	2	0.9
A 01	61.0	62.5	96	1006	74	.01	.002	1.10	.01	.04	2	2	0.2
A 01	62.5	64.0	99	1007	88	.01	.001	8.00	.01	.07	6	2	1.1
A 01	64.0	65.5	100	1008	97	.01	.001	10.70	.01	.19	11	2	1.4
A 01	65.5	67.0	100	1009	91	.01	.001	5.20	.01	.17	4	2	0.8
A 01	67.0	68.6	100		86								
A 01	68.6	70.1	100	1010	75	.03	.003	9.30	.01	.14	7	2	2.0
A 01	70.1	71.6	100		67								
A 01	71.6	73.2	100	1011	57	.02	.003	5.40	.02	.05	10	3	4.5
A 01	73.2	74.7	100		50								
A 01	74.7	76.2	100	1012	18	.02	.002	4.80	.01	.09	12	2	0.2

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC151 (CONTINUED)

AD01 A N A L Y T I C A L D A T A

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	RQD % W-CORE FIELD HAND	Cu % H-CORE ICM XRF	Mo % H-CORE ICM XRF	Fe % H-CORE ICM XRF	Au ppm H-CORE ICM FA	Ag ppm H-CORE ICM FA	As ppm H-CORE ACME ICP	Sb ppm H-CORE ACME ICP	Te ppm H-CORE ACME AA
A 01	76.2	77.7	92		22								
A 01	77.7	79.2	86	1013	24	.03	.003	5.10	.01	.14	8	2	0.7
A 01	79.2	80.8	81		25								
A 01	80.8	82.3	73	1014	26	.02	.003	4.30	.03	.12	16	2	0.6
A 01	82.3	83.8	73		26								
A 01	83.8	85.3	78	1015	36	.02	.003	4.60	.03	.13	5	2	0.6
A 01	85.3	86.9	94		51								
A 01	86.9	88.4	78	1016	24	.02	.002	4.40	.02	.04	10	2	0.
A 01	88.4	89.9	64		4								
A 01	89.9	91.4	36	1017	3	.02	.003	3.20	.02	.04	4	2	0.3
A 01	91.4	93.0	28	1018	3	.02	.002	3.8-	.02	.05	7	2	0.1
A 01	93.0	94.5	25		0								
A 01	94.5	96.0	25	1019	0	.02	.003	4.10	.01	.05	5	2	0.3
A 01	96.0	97.5	63		13								
A 01	97.5	99.1	64	1020	3	.02	.003	3.50	.01	.01	10	2	0.5
A 01	99.1	100.6	63		0								
A 01	100.6	102.1	54	1021	0	.02	.002	3.30	.01	.01	9	2	0.2
A 01	102.1	103.6	49		0								
A 01	103.6	105.1	47	1022	0	.02	.003	3.30	.02	.01	6	2	0.7
A 01	105.1	106.7	40		0								
A 01	106.7	108.8	53	1023	5	.02	.003	3.60	.01	.01	3	2	0.4

AD02 A N A L Y T I C A L D A T A

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	Pb ppm H-CORE ACME ICP	Zn ppm H-CORE ACME ICP	Co ppm H-CORE ACME ICP	Bi ppm H-CORE ACME ICP	Ba ppm H-CORE ACME ICP
A 02	.0	6.1							
A 02	6.1	7.6		1024	14	13	0.1	35	2
A 02	7.6	9.1							
A 02	9.1	10.7		1025	23	17	0.1	43	2
A 02	10.7	12.2		1026	15	13	0.1	67	2
A 02	12.2	13.7		1027	23	24	0.1	78	2
A 02	13.7	15.2							
A 02	15.2	16.8		1028	9	10	0.1	43	2
A 02	16.8	18.3							
A 02	18.3	19.8		1029	14	17	0.1	39	2
A 02	19.8	21.3							
A 02	21.3	22.9		1030	17	10	0.2	41	2
A 02	22.9	24.4							
A 02	24.4	25.9		1031	14	13	0.1	48	2
A 02	25.9	27.4							
A 02	27.4	28.9		1032	12	13	0.1	82	2
A 02	28.9	30.5							
A 02	30.5	32.0		1033	15	11	0.1	49	2
A 02	32.0	33.5							

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC151 (CONTINUED)

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	AD02 A N A L Y T I C A L D A T A Pb ppm H-CORE ACME ICP	 Zn ppm H-CORE ACME ICP	 Co ppm H-CORE ACME ICP	 Bi ppm H-CORE ACME ICP	 Ba ppm H-CORE ACME ICP
A 02	33.5	35.0		1034	9	32	0.2	45	2
A 02	35.0	36.6							
A 02	36.6	38.1		1035	6	11	0.1	44	2
A 02	38.1	39.6							
A 02	39.6	41.1		1036	5	8	0.1	38	2
A 02	41.1	42.7							
A 02	42.7	44.2		1037	10	95	0.1	43	2
A 02	44.2	45.7							
A 02	45.7	47.2		1038	15	135	0.1	45	2
A 02	47.2	48.8							
A 02	48.8	50.3		1039	7	12	0.1	47	2
A 02	50.3	51.8							
A 02	51.8	53.3		1040	16	30	0.1	68	2
A 02	53.3	54.9		1001	13	13	0.1	78	2
A 02	54.9	56.4		1002	2	3	0.1	41	2
A 02	56.4	57.9		1003	5	4	0.1	41	2
A 02	57.9	59.4		1004	10	30	0.1	72	2
A 02	59.4	61.0		1005	2	5	0.1	62	2
A 02	61.0	62.5		1006	3	4	0.1	70	2
A 02	62.5	64.0		1007	13	25	0.2	66	2
A 02	64.0	65.5		1008	41	50	0.1	90	2
A 02	65.5	67.0		1009	20	12	0.1	44	2
A 02	67.0	68.6							
A 02	68.6	70.1		1010	48	66	0.2	74	2
A 02	70.1	71.6							
A 02	71.6	73.2		1011	21	16	0.2	57	2
A 02	73.2	74.7							
A 02	74.7	76.2		1012	26	14	0.1	43	2
A 02	76.2	77.7							
A 02	77.7	79.2		1013	11	13	0.2	34	2
A 02	79.2	80.8							
A 02	80.8	82.3		1014	12	248	0.1	39	2
A 02	82.3	83.8							
A 02	83.8	85.3		1015	11	29	0.1	35	2
A 02	85.3	86.9							
A 02	86.9	88.4		1016	14	199	0.1	37	2
A 02	88.4	89.9							
A 02	89.9	91.4		1017	3	133	0.1	38	2
A 02	91.4	93.0		1018	10	85	0.1	35	2
A 02	93.0	94.5							
A 02	94.5	96.0		1019	5	131	0.1	24	2
A 02	96.0	97.5							
A 02	97.5	99.1		1020	6	134	0.1	49	2
A 02	99.1	100.6							
A 02	100.6	102.1		1021	8	113	0.1	54	2
A 02	102.1	103.6							
A 02	103.6	105.1		1022	3	107	0.1	48	2

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC151 (CONTINUED)

AD02 A N A L Y T I C A L D A T A

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	Pb ppm H-CORE ACME ICP	Zn ppm H-CORE ACME ICP	Co ppm H-CORE ACME ICP	Bi ppm H-CORE ACME ICP	Ba ppm H-CORE ACME ICP
A 02	105.1	106.7							
A 02	106.7	108.8		1023	7	170	0.1	27	2

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE :DDHEC152

PROJECT IDEN : EXPO
COLLAR NORTHING: 236800.00
TOTAL LENGTH : 128.32
START DATE : 85/ 5/ 7
COLLAR EASTING : 236300.00
CORE/HOLE SIZE : NQ
COMPLETION DATE : 85/ 5/ 8
COLLAR ELEVATION: 426.72
MACHINE TYPE :
GEOLOGGED BY : HRM +
GRID AZIMUTH :
CONTRACTOR : LONGYR

	SURVEY FLAG	SURVEY POINT LOCATION	FORESIGHT	AZIMUTH (DEGREES)	VERTICAL ANGLE (DEGREES)	NORTHING	EASTING
	000	.0		180.00	-50.00		

KEY	F L A G	- INTERVAL - (UNITS = FT) FROM	TO	CORE RECOVERY (FT.1)	% M I X	ROCK TYPE	TYPIFYING TM 1	TYPIFYING TM 2	QAL MIN MAT QM1	TEXTURES TX 1	TEXTURES TX 2	GRAIN CHARACS F	GRAIN CHARACS F	GRAIN CHARACS C	FRACTURE % P	FRACTURE #	FRACTURE TK	STRUCTUR-1 T 1	STRUCTUR-1 ID	STRUCTUR-1 STK AZM	STRUCTUR-1 DIP RT	ALTERATION H A QZ	ALTERATION H A BI	ALTERATION H A CY	ALTERATION H A CB	ALTERATION H A MG	MINS H ANY MIN XX	ORE-TYPE H A PY	ORE-TYPE H A CP	MINS H ANY MIN YY	SUMMARY
KEY	F L G			ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q		TM 3	QM2	TX 3	TX 4	S O R	R N D	S H P	O / C	DIP SML	F I	STRUCTUR-2													
P		.0	.6				STKP										P															
P		.6	18.3				OVER										P															
P		18.3	20.4				BVAL		RF3	FR		4	M	3	7		P					96		97				92			3 7
L								3A					5	7		8											?			1 2
R	CMP	18.3	20.4	FRAGS MOSTLY WHT STR CY ALT W MOD DISSEM PY. ALSO																											
R	CMP	18.3	20.4	SOME GRY VOLC FRAGS W MORE PY																											
R	MNZ	18.3	20.4	MUCH OF MTR CONSISTS OF PY + POSS COSID PO. MOSTLY																											
R	MNZ	18.3	20.4	MASSES OF DUST SIZE GRAINS																											
N		18.3	18.8		X	FAUL		RF3	FR		4	M	3	7		N					96		88				92			3 7
L								2A					5	7		X											?			1 2
P		20.4	24.4				BVAN									P							97				93			3 7
L								2A								8							/				?			1 2
R	LTH	20.4	24.4	PROB ANDS FLOW. SHORT SECT OF POR. INTENSE PY IN MTRX																											
N		20.6	22.9		X	FAUL										N				U65							93			
L								2A								X											?			
N		24.1	24.4		X	FAUL										N							99				=			
L								5A																							
P		24.4	31.2				BVAB		VF	FR						P					64		87			AL	6=			3 7
L								6A				8	3	7	C	7							/				?			1 =
R	TXT	24.4	31.2	POLYLITH BR. CHAOTIC. BOTH MTRX + FRAMEWK SUPPORTED																											
R	TXT	24.4	31.2	CONSID POR TXT BUT PROB ALL IN FRAGS. MTRX APPEARS																											
R	TXT	24.4	31.2	MILLED. QZ-PY MASSES MOST 0.5 - 3 IN ARE VN																											
R	LTH	24.4	31.2	POSS HYDROTH BR OR INTRUS BR																											
R	CMP	24.4	31.2	MOSTLY BUFF-GRY FINE POR FRAGS STR CY-IL?																											
R	CMP	24.4	31.2	ALT W CY VLTS. SOME APHANITIC FRAGS MUCH MORE SILIC																											
R	MIN	24.4	31.2	24.4-28. SECTS LACED W PY-QZ INJECTIONS. VUGULAR																											
R	VEN	25.2	25.6	PY STCKWK IN QTZ VEIN																											
N		25.2	25.6		7	QTZV										7	N	1	VP								V2			
L																6			C/	U80										
R	VEN	27.4	27.7	H/L - 2 MM PY STCKWK																											

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC152 (CONTINUED)

KEY	FLAG	FROM	TO	CORE RECOVERY (FT.1)	% MIX	ROCK TYPE	TYPIFYING MINERAL TM 1	TYPIFYING MINERAL TM 2	QAL MAT QM1	TEXTURES TX 1	TEXTURES TX 2	GRAIN CHARACS F	GRAIN CHARACS C	GRAIN CHARACS %	GRAIN CHARACS M	FRACTURE P	FRACTURE #	FRACTURE TK	STRUCTUR-1 T	STRUCTUR-1 ID	STRUCTUR-1 STK AZM	STRUCTUR-1 DIP RT	ALTERATION MINS H A QZ	ALTERATION MINS H A BI	ALTERATION MINS H A CY	ALTERATION MINS H A CB	ALTERATION MINS H A MG	ALTERATION MINS ANY MIN XX	ORE-TYPE MINS H A PY	ORE-TYPE MINS H A CP	ORE-TYPE MINS H A GL	ORE-TYPE MINS ANY MIN YY	SUMMARY
K	F			ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q	TM QM2 LC- 3 COL	TM 3	TX 4	S O R	R N D	S H P	O / C	DIP SML	E I			T 2	ID	STK AZM	DIP RT STRUCTUR-2	KF	MU	CL H A	EP H A	HE H A	HA H A	PR H A	MO H A	SL H A	HA H A		
N		27.4	27.7			X	FAUL											N							97				6=					
N		28.1	28.3			X	BVAB		VE	FR								N				67		87			AL	6=				3	7
L								6A			8	3	7	C		9					/						?				1	=
N		28.3	31.2			X	BVAB		VE	FR								N				66		85			AL	7+				3	7
L								6A			8	3	7	C		6					/						?				1	+
N		30.8	31.2			X	FAUL											N						9X									
L																X																	
P		31.2	39.6				BVAP			PP								P				95		83			AL	91				4	8
L								5A								4						P7					?				1	1
R	TXT	31.2	39.6	PP TXT FADES IN + OUT. VAGUE FRAGMENTAL?																														
R	ALT	31.2	39.6	NO SIG QZ ALT. MAY BE CY RATHER THAN SER																														
R	FRC	31.2	39.6	CY-PY SELVAGING H/L FRCTS																														
N		34.3	34.4			X	FAUL			PP								N				95		97			AL	91				4	8
L								5A								9						P7					?				1	1
R	ALT	35.7	35.7	THIN SECT. SHOWS ILLITE? ALUN? PYROPH (40%) CLAY 10%-20%?																														
N		36.2	39.6		9	FAUL												N		SH		35		98				81					
L																X																	
P		39.6	52.9				BVAP		FX1	P/		M	1	P		6		P				97		97				81				3	8
L									RF=	FR	2	5	7	0		7						?									1	1
R	LTH	39.6	52.9	OVER SOME SECTS TXT GONE DUE TO ALT + FAULTING																														
R	MIN	39.6	41.3	AT 42.1M AMETHYSTINE QTZ FILL VOIDS 3 MM SIZE. ALSO																														
R	MIN	39.6	41.3	1 CM BLUISH WHT DICKITE FILL W AMETH POSS ANHYD																														
N		39.6	41.3			X	FAUL		FX1	FR		M	1	P		6	N		SH		45	97		98				81				3	8
L								4A	RF=	FR	2	5	7	0		7			SH		30		?								1	1
N		42.8	43.1			X	QTZV			VG							N		C/		B40		Q2				8=					
N		43.1	44.0			X	FAUL		FX1	FR		M	1	P		6	N					97		P8				81				3	8
L									RF=	FR	2	5	7	0		7						?						8=				1	1
N		46.0	47.2			X	BVAL		FX1	P/		M	1	P		5	N	3	SH		60	97		97				8=				3	8
L									RF=	FR	2	5	7	0		8		1	VP		60		?								1	1
R	VEN	49.7	52.9	ZEOL STRGRS LAST EVENT CUT MTRX FRAGS PY STRGRS																														
N		49.7	52.9			X	BVAF		FX1	P/		M	1	P		5	N	1	VP			97		87				81				3	8
L									RF=	FR	2	5	7	0		7		1	VC		50		?								1	1
R	XRD	51.8	51.8	X-RAY OF DICKITE. THIN SECT SHOWS ONE PHENO ALT TO ILLITE																														
P		52.9	57.0				BVAP		FX4	PP								P		VC		94		85				81				3	6
L								5A	QF1	FR						6																1	1
R	TXT	52.9	57.0	SOME PHENOS SHATTERED																														
R	ALT	52.9	57.0	PHENOS STR CY: SER? ALT																														
R	LTH	52.9	57.0	POSS SAME UNIT AS BELOW BUT LESS FRAGS IN THIS																														
R	LTH	52.9	57.0	ZONE NO ACTUAL CONTACT																														
R	COL	55.3	55.8	SOFT PALE BLUISH-GRN MIN = DICKITE																														

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC152 (CONTINUED)

KEY	FLAG	FROM	TO	CORE RECOVERY (FT.1)	% MIX	ROCK TYPE	TYPIFYING MIN TM1	TYPIFYING MIN TM2	QUAL MIN MAT QM1	QUAL MIN MAT QM2	TEXTURES TX1	TEXTURES TX2	GRAIN CHARACS	FRACTURE	STRUCTUR-1 / STRUCTUR-2	ALTERATION MINS HA QZ	HA BI	HA CY	HA CB	HA MG	ANY MIN XX	ORE-TYPE MINS HA PY	HA CP	HA GL	ANY MIN YY	SUMMARY
				ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q	LC-COL	3	3	4	SRDP	ONHC	DIP SML	F I	T 1 / T 2	ID AZM	STK DIP RT	KF	MU	CL H A	EP H A	HE H A	HA H A	PR H A	MO H A	SL H A	HA H A	
N		55.3	55.8		X	FAUL			EX4	PP					N	VC	94		85				81				3 6
L							5A		QE1	FR				X													1 1
N		56.2	56.4		X	BVAP			EX4	PP					N	VC	94		85				81				3 6
L							5A		QE1	FR				9													1 1
N		56.7	57.0		X	FAUL			EX4	PP					N	VC	94		85				81				3 6
L							5A		QE1	FR				X													1 1
P		57.0	84.9			BVAB			VE3	BR	5	N 3 P	6	P			76		78			PP	82				3 7
L							TA		QF=		2	5 7 0	1									?					1 2
R	TXT	57.0	84.9	IMPRESSION THAT MTRX POR + SECTS. TUFF.																							
R	TXT	57.0	84.9	SECTS (SEVERAL IN TO A FEW FT) OF BR, THEN																							
R	TXT	57.0	84.9	INTERVALS OF TUFF LOCAL FRAGS NOT OBVIOUS + HAS																							
R	TXT	57.0	84.9	CATACLASTIC LOOK																							
R	MIN	57.0	84.9	DICKITE PATCHES UP TO 3 X 5 CM. MUCH OF MTRX FINE PY																							
R	COL	57.0	84.9	MOTTLED BUFF + GRY FAIRLY PALE EXCEPT WHERE STR PY																							
R	VEN	57.4	60.2	VERY IRREG PY VEN UP TO 10 CM WIDE. SOMETIMES W																							
R	VEN	57.4	60.2	ADJ QTZ FLOOD + DICKITE FILL VOIDS. A 1.5' ZONE W QTZ																							
R	VEN	57.4	60.2	FLOOD																							
N		57.4	60.2		X	BVAB			VE3	VG	5	N 3 P	6	N	4 VP		97		78	77		PP	82				3 7
L							TA		QF=		2	5 7 0	1									?					1 2
R	MNZ	60.1	60.3	STRONGEST PY ZONES IN FINER GRAIN SECTS																							
N		60.1	60.3		X	BVAB			VE3	BR	5	N 3 P	6	N			76		78			PP	83				3 7
L							TA		QF=		2	5 7 0	1									?					1 2
R	TXT	60.6	61.6	DICKITE + PY FORCEFUL INJECTION W SHATTERING																							
N		60.6	61.6		X	BVAB			VE3	BR	5	N 3 P	6	N			76		78			PP	81				3 7
L							TA		QF=		2	5 7 0	1									?					1 2
R	XRD	61.0	61.0	PALE BLUE-GRN MIN = DICKITE																							
R	MIN	61.7	62.0	SEVERAL IN ZONES W 40% FINE PY CUT BY ZEOL STRGRS																							
N		61.7	62.0		X	BVAB			VE3	BR	5	N 3 P	6	N			76		78			PP	P3				3 7
L							TA		QF=		2	5 7 0	1									?					1 2
R	LTH	66.9	67.3	NO SHARP CONT PROB FLOW RATHER THAN INTRUS POR																							
R	MIN	66.9	67.3	STR PY IN MTRX																							
R	TXT	66.9	67.3	GOOD RELIC TXT. HAS HYPABYSSAL TXT. MTRX NOT																							
R	TXT	66.9	67.3	APHAN																							
R	ALT	66.9	67.3	PHEN ALT TO SER? CY?																							
N		66.9	67.3		X	PPEX			EX3	PP	J	3	5	N	1 VQ		85						91				3 5
L							TA											95									1 1
R	MIN	67.3	69.2	VUGULAR QTZ VEN + VEN FRAGS W AMETH QTZ NOT BELOW 70.1M																							
N		67.3	69.2		X	BVAB			VE3	BR	5	N 3 P	6	N			76		78			PP	81				3 7
L							TA		QF=		2	5 7 0	1									?					1 1
N		72.5	74.8		X	BVAB			VE3	BR	5	N 3 P	6	N			76		78			PP	81				3 7
L							TA		QF=		2	5 7 0	1									?					1 2
N		78.9	81.4		X	BVAB			VE3	BR	5	N 3 P	6	N			76		78			PP	8=				4 7

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC152 (CONTINUED)

KEY	FLAG	- INTERVAL - (UNITS = FT) FROM	TO	CORE RECOVERY (FT.1)	% MATRIX	ROCK TYPE	TYPIFYING TM 1	TYPIFYING TM 2	QUAL MIN MAT QM1	QUAL MIN MAT QM2	TEXTURES TX 1	TEXTURES TX 2	GRAIN CHARACS F	C	%	M	FRACTURE #	TK	STRUCTUR-1 T	ID	STK AZM	DIP RT	ALTERATION H A QZ	H A BI	H A CY	H A CB	H A MG	MINS H ANY XX	ORE-TYPE H A PY	H A CP	H A GL	MINS H ANY YY	SUMMARY
K	F			ROCK	FOR	EN	RT						S	R	S	O	DIP	F	T	ID	STK	DIP	KF	MU	CL	EP	HE	HA	PR	MO	SL	HA	
E	L			QUAL	MEM	V	Q	LC-	3		3	4	O	N	H	/	SML	I	2		AZM	RT			H	H	H	H	H	H	H	H	
Y	G			DESIG	AGE			COL					R	D	P	C				STRUCTUR-2					A	A	A	A	A	A	A	A	
L								TA	QF=				2	5	7	0	1										/			?			1 =
R	LTH	82.0	83.0		THIS HAS APPEAR OF CHAOTIC VOLC SEQUENCE. CONSISTS																													
R	LTH	82.0	83.0		OF BR LAP TUFF + POR. V POOR SORTING + ANG TO SUBRND																													
R	LTH	82.0	83.0		FRAGS. COARSER SECTS PROB MORE RECEPTIVE TO FLUIDS																													
R	LTH	82.0	83.0		RESULTING IN NARROW V STR SILIC ZONES (A FEW IN) + VNS																													
R	LTH	82.0	83.0		GEN VUGGY W SOME AMETH QTZ ABOVE 70.1M ALSO PY VNS +																													
R	LTH	82.0	83.0		PATCHES REMAINING VOIDS FILL BY LATER DICKITE GIVES																													
R	LTH	82.0	83.0		IMPRESSION OF CATACLASTIC TXT. PROB BRECCIATION OF																													
R	LTH	82.0	83.0		FRAGMENTAL. PERHAPS SEVERAL BR EVENTS. ALL FRCTS HEALED.																													
R	LTH	82.0	83.0		UP TO 1M OF UNBROKEN CORE. ABOUT 20% OF SECT REPETITIVE POR																													
R	LTH	82.0	83.0		+ PROB SOME TUFF ZONES. V STR PY IN MTRX.																													
R	ALT	82.0	83.0		BUFF COL POSS DUE TO WK PYROPH?																													
N		82.0	83.0		X	BVAB			VE3	BR			5	N	3	P	6	N					76		78			PP	81				3 7
L								TA	QF=	PP			2	5	7	0	1										/			?			1 2
R	XRD	83.2	83.2		THIN SECT + X-RAY DETERMINATION OF DICKITE																													
P		84.9	86.4					FAUL									6	P	6	VP		65			87								
L								2A												SH		65											
R	VEN	84.9	86.4		AT 85.9M .1M MASS PY VEIN OTHER VNS H/L - 3MM																													
P		86.4	91.5					BVAP			PP		2	J	2		6	P	1	VP		50	P3		94	V3		83				4 4
L								2A									7							/								1 2
R	TXT	86.4	91.5		FAIRLY WELL PRESERVED POR MTRX APH																													
R	ALT	86.4	91.5		MTRX EXTREME PYRITIZED. SOM PHEN PART PY REPLACED																													
R	ALT	86.4	91.5		PHEN EXCEPT NEAR FAULTS PHEN NOT STR ALT + RK IS																													
R	ALT	86.4	91.5		HARD. SILIC? OR PRIM FSP-QTZ MTRX. POSS DIKE																													
R	MNZ	86.4	91.5		PROB 25% PY MOSTLY DUST SIZE IN MTRX																													
R	ALT	86.4	91.5		DICKITE, POSS ILLITE DETERMINED FROM THIN SECTION																													
N		88.8	89.1			X	BVAP			PP		2	J	2		6	N	1	VP		50	P3		95	V3		83				4 4
L								2A									9							/								1 2
N		89.4	91.5			X	FAUL			PP		2	J	2		6	N	1	VP		50	P3		97	V3		83				4 4
L								2A									7							/								1 2
P		91.5	93.7					BVAL		RF1	FR			6	1	7		P	5	VP					V2		82				4 4
L								2A			PP		2	7	7	0																1 2
R	TXT	91.5	93.7		VAGUELY POR MTRX. ROUNDED PALE GRY SILIC FRAGS																													
R	TXT	91.5	93.7		W STR PY + SOME W PY RIMS																													
N		92.6	93.0			X	FAUL			RF1	FR			6	1	7		N	5	VP				98	84		81				4 4
L								2A			PP		2	7	7	0																1 2
P		93.7	93.9					BVAP			PP		2	J	2		5	P							22		83					
L								2A									3															
R	LTH	93.7	93.9		SAME AS 86.4-92.2M.																													
P		93.9	103.0					BVAN			BR			6		0		P	2	VB		0	98		V3		82				9 8

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC152 (CONTINUED)

KEY	F L A G	- INTERVAL - (UNITS = FT) FROM	TO	CORE RECOVERY (FT.1)	% M I X	ROCK TYPE	TYPIFYING MINERALS TM 1	TM 2	QAL MIN MAT QM1	TEXTURES TX 1	TX 2	GRAIN CHARACS F	C	% C	FRACTURE M P	#	TK	T 1	STRUCTUR-1 ID	STK AZM	DIP RT	ALTERATION MINS H A QZ	H A BI	H A CY	H A CB	H A MG	H ANY XX	ORE-TYPE MINS H A PY	H A CP	H A GL	H ANY YY	SUMMARY
K EY	F L G			ROCK QUAL DESIG	FOR MEM AGE	EN V RT	LC- COL	TM 3	QM2	TX 3	TX 4	S O R	R N D	S H P	O / C	DIP SML	F I	T 2	STRUCTUR-2 ID	STK AZM	DIP RT	KF	MU	CL H A	EP H A	HE H A	HA H A	PR H A	MO H A	SL H A	HA H A	
L							2A								0		7														1 2
R	COL	93.9	103.0				MOTTLED DK GRY (QTZ PATCHES) + DARKER GRY-BLK WHICH HAS																										
R	COL	93.9	103.0				CONC OF V FINE PY																										
R	CMP	93.9	103.0				COMPOSED ESSENTIALLY OF QTZ=PY PROB AVG 20% PY																										
R	TXT	93.9	103.0				MOTTLING IMPARTS BR TXT POSS ONLY ALT PRODUCT (HYDROTH?)																										
R	TXT	93.9	103.0				LOCAL DISTINCT QTZ FRAGS W H/L PY STRGRS + WK PY DISSM																										
N		93.9	95.6		X	FAUL			BR		6				0		N	2	VB		0	98		/ V6		82				9	8
L							2A								0	X														1	2
N		97.2	98.9		X	BVAN			BR		6				0		N	2	VB		0	98		V4		82				9	8
L							2A								0	9														1	2
N		98.9	99.8		X	FAUL			BR		6				0		N	2	VB		0	98	/ V6	V3		82				9	8
L							2A								0	X														1	2
N		100.6	101.6		X	FAUL			BR		6				0		N	2	VB		0	98		/ V3		82				9	8
L							2A								0	X														1	2
P		103.0	110.6			ISDR		EX5	PP							P							P5	V4		9=				4	5
L							GA								8							P5								1	=
R	LTH	103.0	110.6				ALT BUT STR SUGGESTION OF RELIC INTRUS TXT.																										
R	LTH	103.0	110.6				VAGUE REL MAF PHENOS ALT TO IL + PY. OVER SOME																										
R	LTH	103.0	110.6				SECTS. ABOUT 10-15% ASSOC TINY GRAINS MAG-HEM. HARD																										
R	LTH	103.0	110.6				SOME PRIM QTZ? GRDR? GRADATIONAL CONTS. PROB MUCH																										
R	LTH	103.0	110.6				CONTAM BY HOST RK. HYPAUTOMORPHIC																										
R	MIN	103.0	110.6				3 CM MAG PATCH W HEM AT 108.8M																										
R	ALT	103.0	110.6				20-25% ILLITE? SER? AFTER FSP FROM THIN SECT (104.5M)																										
N		103.3	103.9		X	ISDR		EX5	PP							N							P5	V4		9=				4	5
L							GA								3							P5								1	=
N		107.9	110.6		X	ISDR		EX5	PP							N							P5	V4		9=				4	5
L							GA								4							P5								1	=
P		110.6	124.0			BVAN										P						P4		P7	V4		92				4	7
L							2A								6							P5								1	1
R	LTH	110.6	124.0				PROB GRANITIZED. MAY BE CONTAMINATED INTRUS SECT.																										
R	LTH	110.6	124.0				SOME GRY V SILIC FRAGS. SOME FRESH FSP PHENOS																										
R	MIN	110.6	124.0				10 - 20% PY																										
R	TXT	110.6	124.0				ZONES W PORPH TXT. GHOSTS OF FX PHENOS COMMON																										
R	CMP	113.4	117.3				FRAGS GRY EXTR SILIC W WK FINE DISSM PY																										
R	TXT	113.4	117.3				FRAG ZONES REPETITIVE. LAP TUFF + TUFF BEDS?																										
N		113.4	117.3		X	BVAL			RE3	FR		6	3	7		N						P4		P7	V4		92				4	7
L							2A				3	7	7	0	6							P5								1	2
R	XRD	114.6	114.6				THIN SECT + X-RAY = DICKITE + PYROPH. FROM THIN SECT																										
R	XRD	114.6	114.6				POSS ALSO ILLITE																										
R	LTH	117.3	120.4				PROB DIOR FINGERS. POSS TUFF. FSP POR																										
R	TXT	117.3	120.4				MAF PHENOS 8-10% REPLACED MOSTLY BY PY																										
N		117.3	120.4		4	ISDR		EX3	PP		5	3			N							P3		P4	V4		92				4	4

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC152 (CONTINUED)

KEY	FLAG	FROM	TO	CORE RECOVERY (FT.1)	% ROCK TYPE	TYPIFYING MINERALS TM 1	TM 2	QUALIFYING MINERALS QM1	QM2	TEXTURES TX 1	TX 2	GRAIN CHARACTERS F	C	%	M	FRACTURE #	TK	STRUCTURE-1 T	ID	STK AZM	DIP RT	ALTERATION MINS H QZ	H BI	H CY	H CB	H MG	ANY MIN XX	ORE-TYPE MINS H PY	H CP	H GL	ANY MIN YY	SUMMARY
KEY	FLAG			ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q	TM 3 LC- COL			3	S O R	R N D	H P	O / C	DIP SML	F I	T 2	ID	AZM STRUCTUR-2	RT	KF	MU	CL H A	EP H A	HE H A	HA H A	PR H A	MO H A	SL H A	HA H A	
L								2A															/									1 2
R	ALT	120.1	120.1																													
THIN SECTION PROB ILLITE AFTER BIOT?																																
P		124.0	125.9			ISDR				EX3	PP		K	3		P					97		P3	V3			92				4 6
L								2A									X					/									1 2
R	LTH	124.0	125.9																													
FSP POR SUGGESTION OF MAF PHEN REPLACED BY PY																																
R	LTH	124.0	125.9																													
LOOKS INTRUS. OCCUPIES FAULT																																
R	ALT	124.0	125.9																													
FSP PHEN ALT TO SER? CY? MAF TO PY																																
N		124.0	125.9			9		FAUL									N		SH		U75		P9	V3							
L																	X															
P		125.9	128.3			BVAN										P					P3		P3	V4			91				3 5
L								2A									7								Q2							1 1
R	TXT	125.9	128.3																													
GHOSTS OF FX PHENOS CONTAM DIOR GRANITIZED VOLC?																																

S U M M A R Y R E M A R K S

0-18.3
OVERBURDEN
18.3-24.4
BROB BONANZA LAP TUFF. MUCH OF SECTION FAULTED. MTRX OF
DUST-SIZE GRAINS + V STRONG PY. STRONG ARGILLIC ALT. ABOUT
20% PY
24.4-31.2
POLYMICT BR (BVAB). CHAOTIC. MTRX MAY BE MILLED. FRAGS
OFTEN PORPH. PART OF SECT LACED W QTZ-PY VLTS INCLUDING
1.3' QTZ VN
STRONG ARGILLIC ALT. 3-5% PY
STRONG FRACTURING
31.2-57.
POSS VOLC PORPH (BVAP) OR TUFF? VAGUE RELIC POR TXT
FADES IN + OUT
V STR TRANSITIONAL PHYLLIC-ARGILLIC ALT 31.1-39.6. OTHERWISE
ARGILLIC + POSS SOME TRANSITIONAL
10% PY HAS A 1' QTZ VN
FRACTURING GENERALLY STRONG
57.-84.9
BONANZA BR WITH MINOR SECTS LAP TUFF. TUFF + POR?
CHAOTIC. FRAGS APPEAR TO BE LOOSELY COMPACTED + VOIDS
FILLED W LIGHT GRN DICKITE + AMETHYST + PY STRINGERS
ALT IS STRONG ARGILLIC + PROB SECTIONS OF TRANSITIONAL
PY ABOUT 20%
GENERALLY UNFRACTURED
84.9-86.4

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC152 (CONTINUED)

S U M M A R Y R E M A R K S

FAULT
86.41-93.9
BONANZA PORPH W LAP TUFF SECTION
ALT IS PROB WK-MOD TRANSITIONAL
PY ABOUT 20%
93.9-103.
BONANZA VOLC? (BVAN) MOTTLED QTZ-PY ROCK. LOCAL QTZ
FRAGS. V STR SILICEOUS ALT
20-25% PY. WK CRB VNING
STR FRACTURING
103.-110.6
BELOW 103.M PROB INTRUS + ZONE OF ASSIM
DIOR (ISDR) AND ASSIMILATED HOST RK
ALT IS MOD TRANSITIONAL
ABOUT 5% PY WK - MOD CRB VNING
V STR FRACTURING
110.6-128.3
BONANZA VOLC (BVAN) GRANITIZED OR DIOR WITH ASSIMILATED
HOST ROCK. LAP TUFF 113.4-117.4M. NARROW DIKES + DIKELETS
OF DIOR
ALT IS MOD TRANSITIONAL (ILLITE)
10-20% PY WK-MOD CRB VNING
GENERALLY STR FRACTURING
FAULTS: 20.6-22.9,24.1-24.4,30.9-31.2,36.2-39.6,
39.6-41.3,43.1-44.0,55.3-55.8,56.7-56.6,
84.9-86.4,89.4-91.5,92.7-93.0,93.9-95.7,
98.9-99.8,100.6-101.6,124.1-125.9.
RESULTS: IN THE VOLCS (ABOVE 338') CU 0.03-0.05%, MO
0.004-0.005%. AU RANGES TO 30 PPB. BELOW
IN INTRUSIVES VALUES BELOW DETECTION

AD01 A N A L Y T I C A L D A T A

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	RQD % W-CORE FIELD HAND	Cu % H-CORE ICM XRF	Mo % H-CORE ICM XRF	Fe % H-CORE ICM XRF	Au ppm H-CORE ICM FA	Ag ppm H-CORE ICM FA	As ppm H-CORE ACME ICP	Sb ppm H-CORE ACME ICP	Te ppm H-CORE ACME AA
A 01	.0	18.3											
A 01	18.3	19.8	80	1041	33	.03	.004	5.60	.03	.05	7	2	
A 01	19.8	21.3	90		31								
A 01	21.3	22.9	90	1042	31	.03	.004	6.20	.01	.20	5	3	
A 01	22.9	24.4	80		34								
A 01	24.4	25.9	80	1043	34	.04	.004	6.90	.01	.12	2	2	
A 01	25.9	27.4	77	1044	20	.03	.004	6.10	.01	.20	2	3	
A 01	27.4	28.9	70		17								
A 01	28.9	30.5	63	1045	13	.03	.004	5.10	.01	.11	2	3	
A 01	30.5	32.0	77		35								
A 01	32.0	33.5	91	1046	56	.03	.004	5.40	.03	.16	2	2	
A 01	33.5	35.0	79		47								
A 01	35.0	36.6	62	1047	34	.04	.004	5.40	.03	.03	2	2	
A 01	36.6	38.1	69		27								

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC152 (CONTINUED)

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	AD01 A N A L Y T I C A L D A T A RQD % W-CORE FIELD HAND	Cu % H-CORE ICM XRF	Mo % H-CORE ICM XRF	Fe % H-CORE ICM XRF	Au ppm H-CORE ICM FA	Ag ppm H-CORE ICM FA	As ppm H-CORE ACME ICP	Sb ppm H-CORE ACME ICP	Te ppm H-CORE ACME AA
A 01	38.1	39.6	93	1048	43	.04	.005	5.50	.01	.02	2	2	
A 01	39.6	41.1	97		64								
A 01	41.1	42.7	92	1049	33	.04	.004	5.40	.01	.01	3	2	
A 01	42.7	44.2	92		33								
A 01	44.2	45.7	93	1050	57	.04	.005	4.60	.01	.02	2	2	
A 01	45.7	47.2	93		57								
A 01	47.2	48.8	83	1051	42	.04	.005	5.40	.01	.04	10	2	
A 01	48.8	50.3	83		42								
A 01	50.3	51.8	86	1052	66	.05	.004	6.00	.01	.02	19	3	
A 01	51.8	53.3	86		66								
A 01	53.3	54.9	62	1053	19	.05	.005	6.50	.01	.04	23	2	
A 01	54.9	56.4	71		33								
A 01	56.4	57.9	84	1054	55	.06	.004	7.70	.01	.08	11	2	
A 01	57.9	59.4	90		66								
A 01	59.4	61.0	98	1055	82	.05	.004	7.00	.03	.06	9	2	
A 01	61.0	62.5	99		89								
A 01	62.5	64.0	100	1056	100	.04	.004	5.90	.02	.05	20	2	
A 01	64.0	65.5	100		100								
A 01	65.5	67.0	100	1057	92	.04	.004	5.80	.01	.06	22	3	
A 01	67.0	68.6	100		92								
A 01	68.6	70.1	100	1058	90	.04	.004	5.20	.01	.05	21	3	
A 01	70.1	71.6	100		90								
A 01	71.6	73.2	100	1059	98	.04	.004	5.80	.02	.05	7	2	
A 01	73.2	74.7	100		98								
A 01	74.7	76.2	93	1060	69	.04	.005	5.80	.02	.05	2	2	
A 01	76.2	77.7	93		69								
A 01	77.7	79.2	90	1061	87	.04	.004	6.10	.01	.04	8	2	
A 01	79.2	80.8	90		87								
A 01	80.8	82.3	96	1062	79	.04	.008	5.70	.01	.06	2	5	
A 01	82.3	83.8	96		79								
A 01	83.8	85.3	93	1063	48	.04	.004	5.90	.01	.03	2	2	
A 01	85.3	86.9	92	1064	44	.04	.005	7.90	.01	.03	2	2	
A 01	86.9	88.4	83	1065	10	.05	.005	5.60	.01	.05	2	3	
A 01	88.4	89.9	83		10								
A 01	89.9	91.4	75	1066	8	.04	.004	5.90	.01	.04	2	4	
A 01	91.4	93.0	87		12								
A 01	93.0	94.5	71	1067	26	.04	.005	6.10	.01	.02	2	4	
A 01	94.5	96.0	70		25								
A 01	96.0	97.5	69	1068	24	.04	.005	6.80	.01	.04	2	2	
A 01	97.5	99.1	87		20								
A 01	99.1	100.6	70	1069	26	.05	.004	5.70	.01	.02	2	2	
A 01	100.6	102.1	65		15								
A 01	102.1	103.6	74	1070	38	.05	.005	5.80	.01	.04	2	4	
A 01	103.6	105.1	79		28								
A 01	105.1	106.7	97	1071	12	.01	.001	7.10	.01	.02	2	5	
A 01	106.7	108.2	83		10								
A 01	108.2	109.7	92	1072	78	.01	.001	6.30	.01	.03	2	2	

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC152 (CONTINUED)

AD01 A N A L Y T I C A L D A T A

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	RQD % W-CORE FIELD HAND	Cu % H-CORE ICM XRF	Mo % H-CORE ICM XRF	Fe % H-CORE ICM XRF	Au ppm H-CORE ICM FA	Ag ppm H-CORE ICM FA	As ppm H-CORE ACME ICP	Sb ppm H-CORE ACME ICP	Te ppm H-CORE ACME AA
A 01	109.7	111.3	92		78								
A 01	111.3	112.8	100	1073	83	.01	.001	6.00	.01	.01	2	2	
A 01	112.8	114.3	100		83								
A 01	114.3	115.8	100	1074	68	.01	.001	6.60	.01	.03	2	2	
A 01	115.8	117.3	100		68								
A 01	117.3	118.9	97	1075	88	.01	.001	5.20	.01	.03	2	2	
A 01	118.9	120.4	97		88								
A 01	120.4	121.9	92	1076	60	.01	.001	6.10	.01	.06	2	2	
A 01	121.9	123.4	92		60								
A 01	123.4	125.0	73	1077	15	.01	.001	5.60	.01	.02	7	2	
A 01	125.0	126.5											
A 01	126.5	128.3	76	1078	21	.01	.001	5.20	.01	.02	2	2	

AD02 A N A L Y T I C A L D A T A

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	Pb ppm H-CORE ACME ICP	Zn ppm H-CORE ACME ICP	Co ppm H-CORE ACME ICP	Bi ppm H-CORE ACME ICP	Ba ppm H-CORE ACME ICP
A 02	.0	18.3							
A 02	18.3	19.8		1041	10	76	169	3	
A 02	19.8	21.3							
A 02	21.3	22.9		1042	7 104	612	4		
A 02	22.9	24.4							
A 02	24.4	25.9		1043	16	17	74	4	
A 02	25.9	27.4		1044	12	14	48	5	
A 02	27.4	28.9							
A 02	28.9	30.5		1045	6	39	32	2	
A 02	30.5	32.0							
A 02	32.0	33.5		1046	12	149	69	2	
A 02	33.5	35.0							
A 02	35.0	36.6		1047	11	129	14	2	
A 02	36.6	38.1							
A 02	38.1	39.6		1048	12	88	77	2	
A 02	39.6	41.1							
A 02	41.1	42.7		1049	6	73	117	2	
A 02	42.7	44.2							
A 02	44.2	45.7		1050	7	75	126	2	
A 02	45.7	47.2							
A 02	47.2	48.8		1051	9	48	96	2	
A 02	48.8	50.3							
A 02	50.3	51.8		1052	10	101	25	2	
A 02	51.8	53.3							
A 02	53.3	54.9		1053	11	32	33	2	
A 02	54.9	56.4							
A 02	56.4	57.9		1054	8	18	40	2	
A 02	57.9	59.4							

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC152 (CONTINUED)

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	AD02 A N A L Y T I C A L D A T A Pb ppm H-CORE ACME ICP	Zn ppm H-CORE ACME ICP	Co ppm H-CORE ACME ICP	Bi ppm H-CORE ACME ICP	Ba ppm H-CORE ACME ICP
A 02	59.4	61.0		1055	10	41	31	4	
A 02	61.0	62.5							
A 02	62.5	64.0		1056	7	175	20	2	
A 02	64.0	65.5							
A 02	65.5	67.0		1057	8	83	36	2	
A 02	67.0	68.6							
A 02	68.6	70.1		1058	8	16	27	2	
A 02	70.1	71.6							
A 02	71.6	73.2		1059	8	103	20	3	
A 02	73.2	74.7							
A 02	74.7	76.2		1060	9	235	19	3	
A 02	76.2	77.7							
A 02	77.7	79.2		1061	6	163	207	2	
A 02	79.2	80.8							
A 02	80.8	82.3		1062	6	208	17	2	
A 02	82.3	83.8							
A 02	83.8	85.3		1063	15	520	78	2	
A 02	85.3	86.9		1064	16	111	514	2	
A 02	86.9	88.4		1065	8	103	1277	2	
A 02	88.4	89.9							
A 02	89.9	91.4		1066	7	99	1013	2	
A 02	91.4	93.0							
A 02	93.0	94.5		1067	13	108	975	2	
A 02	94.5	96.0							
A 02	96.0	97.5		1068	9	114	671	2	
A 02	97.5	99.1							
A 02	99.1	100.6		1069	9	114	1353	2	
A 02	100.6	102.1							
A 02	102.1	103.6		1070	6	95	1048	2	
A 02	103.6	105.1							
A 02	105.1	106.7		1071	7	79	1584	2	
A 02	106.7	108.2							
A 02	108.2	109.7		1072	3	84	900	2	
A 02	109.7	111.3							
A 02	111.3	112.8		1073	5	85	858	2	
A 02	112.8	114.3							
A 02	114.3	115.8		1074	8	115	542	2	
A 02	115.8	117.3							
A 02	117.3	118.9		1075	6	107	620	2	
A 02	118.9	120.4							
A 02	120.4	121.9		1076	7	115	754	2	
A 02	121.9	123.4							
A 02	123.4	125.0		1077	7	107	855	2	
A 02	125.0	126.5							
A 02	126.5	128.3		1078	5	81	890	3	

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE :DDHEC153

PROJECT IDEN : EXPO
COLLAR NORTHING: 237020.00
TOTAL LENGTH : 172.82
START DATE : 85/ 5/10
COLLAR EASTING : 237920.00
CORE/HOLE SIZE : NQ
COMPLETION DATE : 85/ 5/15
COLLAR ELEVATION: 457.20
MACHINE TYPE :
GEOLOGGED BY : HRM +
GRID AZIMUTH :
CONTRACTOR : LONGYR

SURVEY FLAG 000 | SURVEY POINT LOCATION .0 | FORESIGHT | AZIMUTH (DEGREES) | VERTICAL ANGLE (DEGREES) -90.00 | NORTHING | EASTING

KEY	F L A G	- INTERVAL - (UNITS = FT) FROM	TO	CORE RECOVERY (FT.1)	% M I X	ROCK TYPE	TYPIFYING MIN MAT 1	TYPIFYING MIN MAT 2	QAL MIN QM1	TEXTURES TX 1	TEXTURES TX 2	GRAIN CHARACS F	C	%	M	FRACTURE #	TK	STRUCTUR-1 T	ID	STK AZM	DIP RT	ALTERATION H A QZ	H A BI	H A CY	H A CB	H A MG	MINS A ANY XX	ORE-TYPE H A PY	H A CP	H A GL	MINS A ANY YY	SUMMARY
KEY	F L G			ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q	TM 1	TM 2	QM2	TX 3	TX 4	S O N R	R D	S H P	O / C	DIP SML	F I	STRUCTUR-2 T	ID	STK AZM	DIP RT	KF	MU	H A CL	H A EP	H A HE	H A HA	H A PR	H A MO	H A SL	H A HA	
P		.0	.6				STKP											P														
P		.6	4.0				OVER											P														
P		4.0	4.6				PPEX			PP		5	3					P				97		P5			9=				3 7	
L							5A										3															1 =	
K	TOX	4.0	4.0				LIMONITE GEN WK + MOSTLY IN VUGS ON FRCTS																											
R	LTH	4.0	4.6				POSS FLOW. NO SHARP CONTACT																											
P		4.6	10.5				BVAN											P				/		P8			91				3 8	
L							3A										2															1 1	
R	TXT	4.6	8.3				TXT GONE. APPEARS TO HAVE BEEN F.G.																											
N		4.9	5.3				X BVAL			RE3		FR		6	3	N		N				/		P8			9=				3 8	
L							7A							3	5	7	0	4													1 1	
R	TXT	6.1	10.5				IN NARROW BLEACH ZONES RELIC POR TXT																											
R	TXT	6.1	10.5				PY-RICH STREAKS W LIM STAIN																											
N		6.1	10.5				X BVAN			P/								N				/		P8			91				3 8	
L							UA										2															1 1	
P		10.5	15.8				BVAN											P				99		Q2							9 9	
L							6T										2															0 0	
R	ALT	10.5	15.8				A ZONE OF INTENSE SILIC. BLEACHED. SMALL PATCHES OF WHT																											
R	ALT	10.5	15.8				CY. VARIABLY LIM STAIN. IRREG PATCHES OF MED GRY RK																											
R	ALT	10.5	15.8				SIMILAR TO ABOVE. THESE ARE SOFTER + CONTAIN DICKITE																											
R	ALT	10.5	15.8				LOCAL RELIC PHEN? ASH? NOW CY																											
R	TXT	10.5	11.6				1 FT ZONE W LIM STAIN LARGE OPEN VUGS. THIS MAY HAVE																											
R	TXT	10.5	10.5				CHANNELED SILICA																											
R	ALT	10.5	11.6				BELOW VUGGY ZONE 4 IN WHT MASSIVE CY? V SOFT																											
N		10.5	11.6				X BVAN			VG								N				9X		Q1							9 X	
L							RU										2															0 0	
R	XRD	11.6	11.6				X-RAY DETERMINATION OF DICKITE																											
N		12.5	15.5				3 BVAN											N				98		93								
P		15.8	22.4				BVAN										6	P				98		93			6*				9 9	

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC153 (CONTINUED)

KEY	FL AG	FROM	TO	CORE RECOV-ERY (FT.1)	% MI X	ROCK TYPE	TYPIFYING TM 1	TYPIFYING TM 2	QAL MIN MAT QM1	QAL MIN MAT QM2	TEXTURES TX 1	TEXTURES TX 2	GRAIN CHARACS F	GRAIN CHARACS C	GRAIN CHARACS %	GRAIN CHARACS M	FRACTURE #	FRACTURE TK	STRUCTUR-1 T	STRUCTUR-1 ID	STRUCTUR-1 STK AZM	STRUCTUR-1 DIP RT	ALTERATION H A QZ	ALTERATION H A BI	ALTERATION H A CY	ALTERATION H A CB	ALTERATION H A MG	MINS ANY MIN XX	ORE-TYPE H A PY	ORE-TYPE H A CP	ORE-TYPE H A GL	MINS ANY MIN YY	SUMMARY
K EY	FL AG			ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q						S O R	R N D	S H P	O / C	DIP SML	F I	T 2	ID	STK AZM	DIP RT	KF	MU	CL H STRUCTUR-2 A	EP H A	HE H A	HA H A	PR H A	MO H A	SL H A	HA H A	
L								5A										4																1 *
R	TXT	15.8	22.4																														
R	ALT	15.8	22.4																														
R	FRC	15.8	22.4																														
R	FRC	15.8	22.4																														
R	LTH	20.6	20.9																														
N		20.6	20.9			X	BVAN				VG						N					9X		Q2								9 X
L								OT										6															0 0
P		22.4	23.2				QTZV				VG						P					9X											9 X
L								OA										8															0 0
R	LTH	22.4	23.2																														
R	TXT	22.4	23.2																														
P		23.2	24.4				BVAN											6	P			99		Q				1*					9 9
L								TA										5					92										1 *
R	LTH	23.2	24.4																														
P		24.4	26.4				QTZV										P					9X		Q3								9 X
L								OA										9															0 0
R	ALT	24.4	26.4																														
R	ALT	24.4	26.4																														
N		24.4	26.4			2	BVAN										N					99		83								
L								TA																									
P		26.4	31.7				BVAP		FX2		P/		J	2			P	7	VQ			99		Q2								9 9
L																		6															0 0
R	TXT	26.4	31.7																														
R	VEN	26.4	31.7																														
R	VEN	26.4	31.7																														
R	ALT	28.6	29.6																														
R	ALT	28.6	29.6																														
N		28.6	29.6			X	BVAN										N					9X		96								3 X
L								TA										4															0 0
R	TXT	29.6	31.2																														
R	LTH	29.6	31.2																														
N		29.6	31.2			X	BVAB				P/		6	4	0		N					9X		Q2								9 X
L								TA			BR		2	3	5	0																	0 0
P		31.7	34.1				BVAN										P	0	FR		70	98		92				7(				9 9
L								4A										5															1 (
R	LTH	31.7	34.1																														
R	LTH	31.7	34.1																														
R	LTH	31.7	34.1																														

MED TO DK GRY TEXTURELESS RK SIMILAR TO 15.8-22.3
OCCURING AS SHARP BORDERED PATCHES SEVERAL IN TO
OVER 1 FT IN SIZE WITHIN TAN COL. VARIABLE BLEACH?

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC153 (CONTINUED)

KEY	F L A G	- INTERVAL - (UNITS = FT) FROM	TO	CORE RECOVERY (FT.1)	% MI X	ROCK TYPE	TYPIFYING TM 1	TM 2	QAL MIN MAI QM1	QM2	TEXTURES TX 1	TX 2	GRAIN CHARACS F S	C N	% R H	M O / P	FRACTURE #	DIP	TK	STRUCTUR-1 T 1	ID	STK AZM	DIP RT	ALTERATION MINS H A QZ	H A BI	H A CY	H A CB	H A MG	ANY MIN XX	ORE-TYPE H A PY	H A CP	H A GL	ANY MIN YY	SUMMARY
K E Y	F L G			ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q	TM LC- 3 COL					F O R	N H P	S / C	DIP SML	E I			T 2		STRUCTUR-2		KF	MU	CL H A	EP H A	HE H A	HA H A	PR H A	MO H A	SL H A	HA H A	
P		34.1	34.7			QTZV						VG					P						9X		Q4								9 X
L							8A											7																0 0
P		34.7	60.0			BVAB						BR VG		N	7	P		P			FR	45	9X		Q1				6(		?		9 X
L							7A					P/	2	5	7	C	6		5		F/	70											1 (
R	COL	34.7	60.0	30% ALTERNATING BLEACHED SECTIONS GEN 3-10'																														
R	COL	34.7	60.0	PROB RELATED TO FRCTS THESE LIM STAIN + VUGGY																														
R	TXT	34.7	60.0	MOST OF SECTION HAS BR TXT LOCAL VAGUE RELIC POR																														
R	TXT	34.7	60.0	TUFF? BR TXT INTERMITTENT BUT PREDOMINANT. LOCAL																														
R	TXT	34.7	60.0	VUGS																														
R	LTH	34.7	60.0	CATACLASTIC OR HYDROTH BR? ORIGINAL POR? TUFF?																														
R	MNZ	34.7	60.0	PY DISSM RELATED TO FRCTS + IN MATRIX. ASSOC IS A																														
R	MNZ	34.7	60.0	BLK MIN W PURPLE SHEEN. BN? V FINE GR SOME FRAGS																														
R	MNZ	34.7	60.0	W PY HALO																														
R	ALT	34.7	60.0	AT 46.9 PRONOUNCED CATACLASTIC BR W CY-FILL MTRX																														
R	ALT	34.7	60.0	AT 53.0 PINK (CY? PP) ALT IN 3' WIDE FAULT																														
R	FRC	34.7	60.0	ACROSS SOME SECTS PARALLEL CRACKS TYPICALLY 1-2/ CM																														
R	FRC	34.7	60.0	SOME W DISSM PY																														
R	LTH	51.0	51.8	MONOLITHIC AS ABOVE																														
R	MNZ	51.0	51.8	PY IN MTRX. SOME SULPH STAIN IN LOCAL VUGS																														
R	TXT	51.0	51.8	HAS CATACLASTIC APPEAR. SUBSEQUENT HYDROTH? RETICULATED																														
R	TXT	51.0	51.8	TXT DUE TO PERP H/L CRACKS SOM W DISSM PY																														
N		51.0	51.8		X	BVAB						BR VG		6	5	O		N			FR	45	9X		Q1				8)		?		9 X
L							7A						2	7	7	O	7		5		F/	70				1							1)
N		53.3	56.4		X	BVAB						BR VG		N	7	P		N			FR	45	9X		Q1						?		9 X
L							7I					P/	2	5	7	C	6		5		F/	70											1 (
R	TXT	55.2	55.7	LOCAL CRACKLE TXT W SOME PINKISH CY? PP? PATCH																														
N		55.2	55.7		X	BVAN												N					9X		Q3								9 X
L							8T											4																0 0
R	TXT	56.4	59.0	LINEATIONS ABOUT 70-75 DEGREES. RELIC FLOW? LAM? TXT																														
R	MNZ	56.4	59.0	SHORT SEVERAL IN TO 1 FT SECTS W PY IN H/L FRCTS																														
R	TXT	56.4	59.0	SOME INDICATION OF QTZ STREAMING																														
N		56.4	59.0		X	BVAN												N					9X						7(				9 X
L																																		1 (
N		59.7	60.0		X	QTZV						VG						N			C/	T90											
L							0A											7																
P		60.0	61.6			BVAN			QF2			VG						P	3	VQ		50	9X											9 X
L							8T		VE2																									0 0
P		61.6	63.8			BVAB						VG	FR	6	4	O		P					9X		94								9 X
L							5I							2	3	7	O	7																0 0
R	LTH	61.6	63.8	POLYLITHIC. DK GRY QZ FRAGS + VOLC SOME W VAGUE POR																														

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC153 (CONTINUED)

KEY	FLAG	- INTERVAL - (UNITS = FT) FROM	TO	CORE RECOVERY (FT.1)	% MIX	ROCK TYPE	TYPIFYING TM 1	TM 2	QAL MIN MAT QM1	QM2	TEXTURES TX 1	TX 2	GRAIN CHARACS F	C	%	M	FRACTURE #	TK	STRUCTUR-1 T1	ID	STK AZM	DIP RT	ALTERATION H A QZ	H A BI	H A CY	H A CB	H A MG	MINS ANY XX	ORE-TYPE H A PY	H A CP	H A GL	MINS ANY YY	SUMMARY
K E Y	F L A G			ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q	LC- COL	3	3	4	S R D	S N P	O H C	DIP /	SML	F I		T 2	ID	STK AZM	DIP RT	KF	MU	CL H A	EP H A	HE H A	HA H A	PR H A	MO H	SL H	HA H	
R	LTH	61.6	63.8						TXT FRAGS. THIS IS LEACHED + BLEACHED SECTION OF RK																									
R	LTH	61.6	63.8						DESCRIBED BELOW																									
R	LTH	62.8	63.7						SOME FRAGS W V STR DISSM PY																									
N		62.8	63.7		X	BVAB					FR		6	4	N			N					98		9?				9+				3 8
L							6A						2	3	7	0	7																1 +
R	LTH	63.5	63.6						DIKELET? CONTAINS VOLC FRAGS																									
N		63.5	63.6		X	PPFX					FR		PP		5	4		N					97		Q4				9+				
P		63.8	65.7			BVAN					P/		VG					P					99		93								9 9
L							6T				BR						7																0 0
R	TXT	63.8	65.7						OVER SHORT SECTS VAGUELY POR W APH MTRX																									
R	TXT	63.8	65.7						65.1-65.4 BR TXT. LOOKS CATACLASTIC																									
P		65.7	67.4			BVAP					FX2		PP		I	2	J	P					/		96				9)				3 6
L							4A										7																1)
R		65.7	67.4						THOUGH V FINE TXT MAY BE CHILL ZONE OF DIKE RK WHICH HAS																									
R		65.7	67.4						INTRUDED FAULT																									
R	FRC	65.7	66.1						FRC W LI COATING + SHARP BLEACH ENVELOPE																									
R	LTH	65.7	66.1						PROB SAME AS ABOVE BUT CATACLASTIC SECTION																									
R	LTH	65.7	66.1						MONOLITH FRAG																									
N		65.7	66.1		X	BVAP					FX2		PP	BR	I	2	J	N		FR		40	97		9				9)				3 6
L							4A										4																1)
P		67.4	85.9			FAUL												P		SH		55	/		97				9+				3 8
L							4A										X																1 +
R	LTH	67.4	85.9						PROB BVAP OR POR DIKE																									
R	FRC	67.4	85.9						SOME STR GOUGE + MUD ZONES 78.6-81.7 SAND																									
P		85.9	88.1			BVAT					QF2		PP	FR	6	3	M	P					95		Q4								3 5
L							8T				RF1						0	7															0 0
R	LTH	85.9	88.1						POSS X'L TUFF. FROM 86.0-86.9 LAP TUFF (POLYLITH) W																									
R	LTH	85.9	88.1						SOME PHENOS IN MTRX. FRAGS ARE DK GRY QTZ RK + SOME																									
R	LTH	85.9	88.1						ALT TO WHT CY. 86.9-88.1 PREDOM POR TXT W SOME QTZ + CY																									
R	LTH	85.9	88.1						FRAGS. MTRX LARGELY APH POSS DIKE W XENOS NEAR CONT																									
R	LTH	85.9	88.1						FELSIC DIKE?																									
N		85.9	86.4		X	BVAT					QF2		PP	FR	6	3	M	N					95		Q4				9)				3 5
L							8T				RF1						0	7															0 0
N		86.4	86.5		X	QTZV												N		VQ		10											
L							5A																											
P		88.1	91.4			BVAN							BR					P					99		Q3								9 9
L							8T										7																0 0
R	TXT	88.1	91.4						SHORT SECTS W DISTINCT MONOLITH BR. PROB CATACLASTIC																									
N		88.7	89.6		X	FAUL							BR					N					97		97								9 9

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC153 (CONTINUED)

KEY	F L A G	FROM	TO	CORE RECOV-ERY (FT.1)	% M I X	ROCK TYPE	TYPIFYING IM 1	TYPIFYING IM 2	QAL MIN MAT QM1	QM2	TEXTURES TX 1	TEXTURES TX 2	GRAIN CHARACS F	C	%	M P	FRACTURE #	TK	STRUCTUR-1 T 1	ID	STK AZM	DIP RT	ALTERATION H A QZ	H A BI	H A CY	H A CB	H A MG	MINS H ANY A XX	ORE-TYPE H A PY	H A CP	H A GL	MINS H ANY A YY	SUMMARY
K E Y	F L G			ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q	TM LC- 3 COL		QM2	TX 2	TX 4	S O R	R N D	S H P	O / C	DIP SML	F I	T 2	ID AZM	STK DIP RT	KF	MU	CL H A	EP H A	HE H A	HA H A	PR H A	MO H A	SL H A	HA H A	
L								8T										7														0 0
P		91.4	98.1			BVAN											P					93	99			?					3 9
L								W										9														0 0
R	TXT	91.4	98.1	V FINE QTZ GRAINS SEEN																												
R	ALT	91.4	98.1	WHITE CHALKY COMPLETE CY + PYROPH? SOFT																												
N		93.3	94.2			X BVAN			QF2		FR		6	2	N		N					93	99			?					3 9
L								W					7	9	0			9														0 0
N		94.2	94.6			X FAUL											N					93	99			?					3 9
L								W										X														0 0
R	COL	94.5	96.3	MOTTLED WHT CY PATCHES V SOFT AS ABOVE RK IN PALE PINK																												
R	COL	94.5	96.3	MTRX ALSO SOFT																												
R	TXT	94.5	96.3	WHT CY ALSO AS VNS + ROUND 5-15 MM BLOBS																												
N		94.5	96.3			X BVAN											N					93	99			?					3 9
L								RW										5														0 0
N		98.0	98.1			X FAUL											N					93	99			?					3 9
L								W										X														0 0
P		98.1	99.3			QTZV			KR								P					9X									9 X
L								QA			VG																					0 0
R	LTH	98.1	99.3	SHARP CHANGE TO QTZ. PROB VEIN. CRACKLED W CY IN																												
R	LTH	98.1	99.3	CRACKS. AT 99.2 A 5" VEIN ABOUT 45 DEGREES TO C/A																												
P		99.3	105.8			BVAN			VG								P					99	Q4								9 9
L								QA										5														0 0
R	ALT	99.3	105.8	SOME PATCHES UP TO A FEW IN OF WHT CY. VEINS?																												
R	TXT	99.3	105.8	SPONGY LOOK W SMALL LIM FILL VUGS																												
R	XRD	100.3	100.3	X-RAY DETERMINATION OF DICKITE																												
N		101.3	101.8			X BVAN			VG								N					99	Q4								9 9
L								QA										8														0 0
N		102.5	102.6			X BVAN			VG								N					99	Q4								9 9
L								QA										8														0 0
P		105.8	107.7			BVAL			FR		6						P					98	93			8+					3 8
L								5A																								1 +
R	COR	105.8	105.8	REDUCED TO BQ CORE																												
R	CMP	105.8	107.7	DK GRY SILIC FRAGS. ALSO WHT CY ALT RK FRAGS																												
P		107.7	112.6			ISIN			PP								P					97	97			8+					3 8
L								5A										7														1 +
R	LTH	107.7	112.6	POSS QTZ DIOR GRDR OR DIOR. ANDS?																												
R	TXT	107.7	112.6	SERIATE TO PORPH. ONLY PRESERVED OVER SHORT SECTS																												
R	ALT	107.7	112.6	PROB 20% QTZ IN MTRX. MAY BE PRIMARY. KAOLIN (THIN SECT)																												
R	COL	107.7	112.6	50% OF SECT LEACHED TO POROUS BUFF COL RK W LIM																												

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC153 (CONTINUED)

KEY	FLAG	- INTERVAL - (UNITS = FT) FROM	TO	CORE RECOVERY (FT.1)	% MIX	ROCK TYPE	TYPIFYING TM 1	TYPIFYING TM 2	QAL MIN MAT QM1	TEXTURES TX 1	TEXTURES TX 2	GRAIN CHARACS F	C	%	M	FRACTURE #	TK	STRUCTUR-1 T 1	ID	STK AZM	DIP RT	ALTERATION MINS H A QZ	H A BI	H A CY	H A CB	H A MG	H A ANY MIN XX	ORE-TYPE MINS H A PY	H A CP	H A GL	H A ANY MIN YY	SUMMARY
KEY	FLAG			ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q	TM LC- COL	QM2 3	TX 3	TX 4	S O R	R N D	S H P	O / C	DIP SML	F I	T 2	ID	STK AZM	DIP RT STRUCTUR-2	KF	MU	CL H A	EP H A	HE H A	HA H A	PR H A	MO H A	SL H A	HA H A	
R	COL	107.7	112.6					STAIN. POSS RELATED TO INCREASE IN FRCTS. NO PY IN																								
R	COL	107.7	112.6					THESE SECTS																								
N		110.8	111.1			X	ISIN			PP						N						97	97								3 8
L								5A								9																1 +
P		112.6	114.9				PPEX			PP						P						9/	97				8+				3 7
L								6T								8																0 0
R	TXT	112.6	114.9					RELIC FINER GR PORPH TXT																								
R	LTH	112.6	114.9					POSS WEATHERED EQUIV OF RK AT 118.9 +112.8																								
N		113.4	113.8			X	FAUL									N							98								3 7
L								5T																								0 0
P		114.9	117.8				PPEX			PP		J	3			P						97	97				8+				3 8
L								7T	5A							9																1 +
R	TXT	114.9	117.8					LOOKS LIKE FG INTRUS POSS FAULT ZONE																								
P		117.8	121.9				ISIN			EQ		4	4			P						97	93				9=				3 7
L								6A								4																1 =
R	COL	117.8	121.9					SECTS OF POROUS PALE BUFF COL. PROB LEACH. AS ABOVE																								
R	TXT	117.8	121.9					LOCAL POR TXT																								
R	LTH	117.8	121.9					SAME AS 107.6-112.5																								
R	MIN	117.8	121.9					AS ABOVE. NO PY IN LEACHED SECT. ONLY LIM																								
R	LTH	119.5	120.7					POROUS LEACHED																								
N		119.5	120.7			X	ISIN									N						*/	97								
L								7T								9																
P		121.9	122.5				BVAL		RE2		FR			4		P						97	94				8=				3 7
L								5A	QZ1			2	5	7	0	2																1 =
R	LTH	121.9	122.5					INCLUDES 4" INTRUS FINGER																								
P		122.5	122.8				PPEX			PP		K	3	L		P				C/	B40	97	94				8+				3 7
L								7A								3																1 +
R	CON	122.5	122.8					1 CM WIDE BLK PY-RICH SHR AT CONT																								
P		122.8	125.3				BVAE	FX		PP		4				P						/	97				9+				3 7
L								6A																								1 +
R	TXT	122.8	125.3					SOFT VAGUE FELTY W FSP PHENO GHOSTS. VAGUELY TRACHYTIC																								
N		123.7	123.9			X	FAUL									N							7				9+				
L																7																
P		125.3	128.9				BVAL					6		N		P						?	99				9+				3 9
L								5A				7	7	0		8																1 +
R	LTH	125.3	128.9					AS 121.9-122.5 BUT MUCH SOFTER DUE TO ALT + FAULTING																								
N		126.8	128.9			X	FAUL									N							98				9=				

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC153 (CONTINUED)

KEY	FLAG	FROM (UNITS = FT)	TO	CORE RECOVERY (FT.1)	% ROCK TYPE	TYPIFYING MINERALS 1	TYPIFYING MINERALS 2	QAL MAT QM1	TEXTURES TX 1	TEXTURES TX 2	GRAIN CHARACS F	GRAIN CHARACS C	GRAIN CHARACS %	GRAIN CHARACS M	FRACTURE #	FRACTURE DIP	FRACTURE TK	STRUCTUR-1 T	STRUCTUR-1 ID	STRUCTUR-1 STK AZM	STRUCTUR-1 DIP RT	ALTERATION MINS H A QZ	ALTERATION MINS H A BI	ALTERATION MINS H A CY	ALTERATION MINS H A CB	ALTERATION MINS H A MG	ANY MIN XX	ORE-TYPE MINS H A PY	ORE-TYPE MINS H A CP	ORE-TYPE MINS H A GL	ANY MIN YY	SUMMARY
K	F			ROCK	FOR	EN	RT		TM	QM2	TX	TX	S	R	S	O	DIP	F	T	ID	STK	DIP	KF	MU	CL	EP	HE	HA	PR	MO	SL	HA	
E	L			QUAL	MEM	V	Q	LC-	3		3	4	O	N	H	/	SML	I	2		AZM	RT			H	H	H	H	H	H	H	H	
Y	G			DESIG	AGE			COL					R	D	P	C					STRUCTUR-2				A	A	A	A	A	A	A	A	
L																		X														
P		128.9	146.3			PPEX			FX3	PP			K	3	L			P				96		95			PP	D+			7	8
L								7A	QZ=								9						?				97				1	+
R	CMP	128.9	146.3	QTZ AS TINY GRAINS. NOT PHENOS																												
R	STR	128.9	146.3	PEBBLY CORE EXTR BROKEN BUT NO GOUGE - WASHED AWAY?																												
R	STR	128.9	146.3	PROB FAULT ZONE																												
R	COL	128.9	146.3	PALE BUFF HUE IN MTRX. POSS PYROPH																												
R	STR	135.6	136.4	MUD																												
N		135.6	136.4			X	FAUL											N						9X								
L																		X														
R	XRD	143.4	144.8	THIN SECT + X-RAY = DICKITE + PYROPH																												
N		143.4	144.8			X	PPEX		FX3	PP			K	3	L			N				96		95			PP	D+			7	8
L								7A	QZ=								7						?				97				1	+
R	MNZ	144.8	145.7	POLISH. SECTION SHOWS COVEL, PY, GRAPHITE (GILSONITE?)																												
N		144.8	145.7			X	PPEX		FX3	PP			K	3	L			N				96		95			PP	8+		CV	7	8
L								7A	QZ=								5						?				97			Q*	1	+
R	MNZ	145.7	146.3	BLK MIN AS ABOVE AS SHORT H/L VLTS PATCH. ERRATIC																												
R	MNZ	145.7	146.3	PY ALSO AS DISSM + H/L GASH FILLS AS BLK MIN																												
N		145.7	146.3			X	PPFX		FX3	PP			K	6	L			N				96		96			PP	8+		CV	7	8
L								6A	QZ=								5						?				9/				1	+
P		146.3	153.0			BVAL		PF	QF1	FR		6	2	0			P					95		96			AL	8=			7	7
L								7A	RF1		3	3	7	0		6													1.		1	=
R	LTH	146.3	153.0	SIM TO ABOVE BVAL. THIS UNIT POSS BR. INTERMITTENT																												
R	LTH	146.3	153.0	POR TXT PROB DUE TO INTERFINGERING																												
R	CMP	146.3	153.0	POLYLITH. MOSTLY QTZ + RK FRAGS. ALSO A FEW PY FRAGS																												
R	CMP	146.3	153.0	A VOLC POR FRAG NOTED. % FRAGS V VARIABLE. ALSO SOME																												
R	CMP	146.3	153.0	APPARENT QTZ EYES																												
R	LTH	146.3	153.0	NARROW SECTIONS GEN ONLY A FEW IN WIDE																												
N		146.3	153.0			2	PPEX	QZ	FX3	P/			K	3	L			N				95		96			?	8=				
L								7A									6													1.			
R	STR	148.4	151.2	BR DUE TO QTZ INJECTION. MONOLITH RK FRAGS (HOST)																												
R	STR	148.4	151.2	MTRX MOSTLY QTZ AT 148.4																												
N		148.4	151.2			X	BVAL	PF	QF1	FR		6	2	0			N	6	BR			96		Q4			AL	8=			7	7
L								7A	RF1		3	3	7	0		6													1.	1(	1	=
N		151.2	153.0			X	BVAL	PF	QF1	FR		6	2	0			N					96		98			PP	8+			7	8
L								7A	RF1	VG	3	3	7	0		9												/		1.		1	+
P		153.0	155.1			ISIN				EQ							P					95						8+			7	8
L								6A									5													1.		1	+
R	STR	153.6	154.2	MUD																												
N		153.6	154.2			X	FAUL										N						9X									
L								8I									X															

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC153 (CONTINUED)

KEY	FLAG	- INTERVAL - (UNITS = FT) FROM	TO	CORE RECOVERY (FT.1)	% MIX	ROCK TYPE	TYPIFYING MINERAL TM 1	TM 2	QAL MAT QM1	TEXTURES TX 1	TX 2	GRAIN CHARACS F	C	%	M	#	TK	FRACTURE DIP	F	STRUCTUR-1 T	ID	STK AZM	DIP RT	ALTERATION MINS H A QZ	H A BI	H A CY	H A CB	H A MG	H ANY MIN XX	ORE-TYPE MINS H A PY	H A CP	H A GL	H ANY MIN YY	SUMMARY
K	F			ROCK	FOR	EN	RT		TM	QM2	TX	TX	S	R	S	O	DIP	E		T	ID	STK	DIP	KF	MU	CL	EP	HE	HA	PR	MO	SL	HA	
E	L			QUAL	MEM	V	Q	LC-	3		3	4	O	N	H	/	SML	I		2		AZM	RT			H	H	H	H	H	H	H	H	
Y	G			DESIG	AGE			COL					R	D	P	C						STRUCTUR-2				A	A	A	A	A				
P		155.1	156.7			BVAL			RE1	FR			L	2	0		3	P						96		97			PP	8=				7 7
L							3A		QF1			3	3	7	0		1												4					1 =
P		156.7	162.9			BVAL			QF1	FR			7	3	0			P						95		Q4			PP	8+				7 7
L							7T		RE2	P/		3	3	7	0		6							/					95					1 +
R	COL	156.7	162.9	FAIRLY ABRUPT COL CHANGE. TAN MTRX DUE TO PP IN MTRX?																															
R	LTH	156.7	162.9	POLYLITH. SOME STR ALT BUFF COL FRAGS A FEW POR + SOME																															
R	LTH	156.7	162.9	PY FRAGS. A LOT OF QTZ FRAGS. INTRU BR?																															
R	ALT	156.7	162.9	PROB PHENOS ALT TO WHT MIN. PROB CY IN MTRX																															
R	LTH	156.7	162.9	ZONE OF ASSIMILATION																															
N		156.7	162.9		5	PPFX				PP			K	3	K			N						95		Q4			PP	8+				7 6
L							7T										6								/					93					1 +
R	XRD	159.1	159.1	THIN SECT + WHT MIN AFTER PHEN = DICKITE + PYROPH.																															
R	XRD	159.1	159.1	DICKITE IN MATRIX																															
N		161.2	162.9		X	BVAL			QF1	FR			7	3	0			N						95		Q4			PP	8+				7 7
L							7T		RE2	P/		3	3	7	0		8							/					95					1 +
P		162.9	165.5			PPFX				P/								P						96		Q4			PY	8+				7 7
L							7T										4							97		97				8+				3 7
P		165.5	169.2			PPFX				PP			K	3	K			P						96		97				8+				3 7
L							4A										4																	1 +
P		169.2	172.8			BVAN											4	P						97		97				8+				3 7
L							4A										3																	1 +
R	TXT	169.2	172.8	V VAGUE RELIC TXT GHOSTS PROB TUFF																															

S U M M A R Y R E M A R K S

3.96-10.5 PROB PORPH + FRAGMENTAL BONANZA VOLCS (BVAN, BVAP)
STR - V STR ARGILLIC ALT
ABOUT 10% PY
FAIRLY WK FRACTURING
10.5-11.2 BONANZA VOLC (BVAN) SHORT VUGGY SECTS W LIM STAIN
APPARENT QTZ VNING (EXTREMELY SILIC VOLC SECTS?)
VUGGY + LIM STAIN 2.5′ + 6.5′ WIDE RELATED TO
FAULTS
ALT IS EXTREMELY SILIC
ONLY TRACES OF PY
MOSTLY FAIRLY WK FRACTURING
11.2-31.7 BONANZA PORPH (BVAP) W 3′ SECTION OF TEXTURELESS
VOLC? + 5.5′ BR, POSS CATACLASTIC
ALT IS EXTR SILIC EXCEPT FOR 3′ EXTR ARGILLIC

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC153 (CONTINUED)

S U M M A R Y R E M A R K S

NO SULPHS
MOD FRACTURED

31.7-65.7 MOSTLY BONANZA BR (BVAB) MONOMICT EXCEPT POLYMICT 61.6-63.86. 6" DIKELET? PPFX
ALTERNATING BLEACH ZONES MOSTLY SEVERAL IN WIDE VUGGY
ALT EXTREMELY SILICEOUS
MOSTLY TR PY
MOD TO STRONG FRACTURING

65.7-86.0 BONANZA VOLC (BVAP) POSS DIKE (PPFX?) BELOW 67.4
FAULT ZONE + TXT OBLITERATED
VERY STR ARGILLIC ALT. 1-3% PY

86.0-88.1 BONANZA TUFF + LAP TUFF (BVAT) POLYMICT. SOME PHENOS IN MTRX. ALSO 5" QTZ VN
MOD ARGILLIC ALT. NO SULPHS
FRACTURING IS STR

88.1-107.8 BONANZA VOLC (BVAN) SHORT SECTS W DISTINCT MONOMICT BR (CATACLASTIC?) SOME MOTTLED.
TXT GENERALLY OBLITERATED. LAP TUFF SECT 105.8-107.7. QTZ VN 98.1-99.3.
ALT IS EXTR SILIC. EXCEPT 91.4-98.1 AND 105.8 107.7 EXTREMELY ARGILLIC
NO SULPHS EXCEPT 2-3% PY IN LAP TUFF (105.8-107.7)
FRACTURING MOSTLY VERY STR

107.7-121.9 UNDIFFERENTIATED INTRUS (ISIN) + FSP POR (PPFX)
POSS SAME RK. SOME OF SECTION LEACHED TO POROUS BUFF
ALT IS STRONG ARGILLIC
2-5% PY BUT NONE IN LEACHED SECTIONS
FRACTURING IS STR TO VERY STR

121.9-128.9 BONANZA LAP TUFF (BVAL) FLOW + MINOR PORPH (BVAF)
SOME VAGUELY TRACHYTIC TXT
ALT IS STR ARGILLIC
3-5% PY
FRACTURING IS STRONG

128.9-146.3 FSP POR (PPFX) MOSTLY FAULT ZONE
ALT IS V STR ADVANCED ARGILLIC (PYROPH, DICKITE)
ABOUT 2-3% PY
V STR FRACTURING

146.3-162.9 BONANZA LAP TUFF (BVAL) +/or BR (BVAB)
POLYMICT (QTZ, POR, PY FRAGS) SOME APPARENT QTZ EYES. FROM 146.3-153.0 SOME FSP POR INTERFINGERING 153.0-155.1 ISIN
ALT IS STRONG ADVANCED ARGILLIC (PYROPH + DICKITE)
3-5% PY
FRACTURING IS MOD TO STR

162.9-169.2 FSP POR (PPFX) SAME AS 128.9-146.3
ALT IS ARGILLIC + ADVANCED ARGILLIC
2-3% PY
MOD FRACTURING

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC153 (CONTINUED)

S U M M A R Y R E M A R K S

169.2-172.8 BONANZA VOLC (BVAN) VAGUE RELIC TUFF TXT
STRONG ARGILLIC ALT
2-3% PY
WEAK FRACTURING

FAULTS:67.4-86.0 W MUD GOUGE + SAND, 88.7-89.6, 113.4-113.8,
114.9-117.8,123.7-123.9, 126.8-128.9, 135.6-136.4,
153.6.
OXIDE ZONE EXTENDS FROM TOP TO 165.0.
RESULTS: CU BELOW 0.01% FROM 4.0-129.5.
FROM 129.5-172.8 0.04-0.14%
MO GENERALLY BELOW 0.005%
AU UP TO 30 PPB
0-4.0 OVERBURDEN
COLOR VARIES OVER A FEW FT FROM MED GRY W WK DISS PY + H/L
VLTS TO BUFF COL (LI STAIN). COLOR CHANGE PROB DUE TO BLEACH
WHICH APPEARS TO SPREAD FROM FRCTS. WHERE FRCT IS STRONGEST
SILIC IS COMPLETE. THESE MAY BE REGARDED AS QTZ VEINS WHICH
TEND TO BE VUGGY. HAVE BLEACH ENVELOPES
APPEARS STRONGLY LEACHED (60.0-61.6)

AD01 A N A L Y T I C A L D A T A

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	RQD % W-CORE FIELD HAND	Cu % H-CORE ICM XRF	Mo % H-CORE ICM XRF	Fe % H-CORE ICM XRF	Au ppm H-CORE ICM FA	Ag ppm H-CORE ICM FA	As ppm H-CORE ACME ICP	Sb ppm H-CORE ACME ICP	Te ppm H-CORE ACME AA
A 01	.0	4.0											
A 01	4.0	6.1		1079		.01	.001	7.00	.01	.01	4	2	
A 01	6.1	7.6											
A 01	7.6	9.1		1080		.01	.001	8.40	.01	.02	18	2	
A 01	9.1	10.7											
A 01	10.7	12.2		1081		.01	.001	3.40	.01	.01	2	2	
A 01	12.2	13.7											
A 01	13.7	15.2		1082		.01	.003	0.50	.01	.01	2	2	
A 01	15.2	16.8											
A 01	16.8	18.3		1083		.01	.002	0.60	.01	.01	2	2	
A 01	18.3	19.8											
A 01	19.8	21.3		1084		.01	.002	1.10	.02	.01	3	2	
A 01	21.3	22.5											
A 01	22.5	24.4		1085		.01	.001	2.20	.02	.01	2	2	
A 01	24.4	25.9		1086		.01	.003	0.70	.01	.01			
A 01	25.9	27.4											
A 01	27.4	28.9		1087		.01	.003	0.20	.02	.01	4	2	
A 01	28.9	30.5											
A 01	30.5	32.0		1088		.01	.003	0.10	.01	.01	2	2	
A 01	32.0	33.5											
A 01	33.5	35.0		1089		.01	.002	0.10	.02	.02	2	3	
A 01	35.0	36.6											
A 01	36.6	38.1		1090		.01	.001	1.20	.01	.03	2	2	
A 01	38.1	39.6											

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC153 (CONTINUED)

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	ADO1 A N A L Y T I C A L D A T A RQD % W-CORE FIELD HAND	Cu % H-CORE ICM XRF	Mo % H-CORE ICM XRF	Fe % H-CORE ICM XRF	Au ppm H-CORE ICM FA	Ag ppm H-CORE ICM FA	As ppm H-CORE ACME ICP	Sb ppm H-CORE ACME ICP	Te ppm H-CORE ACME AA
A 01	39.6	41.1		1091		.01	.001	0.50	.02	.02	3	2	
A 01	41.1	42.7											
A 01	42.7	44.2		1092		.01	.002	1.80	.01	.04	5	2	
A 01	44.2	45.7											
A 01	45.7	47.2		1102		.01	.001	2.30	.02	.03	2	2	
A 01	47.2	48.8											
A 01	48.8	50.3											
A 01	50.3	51.8		1093		.01	.001	2.30	.01	.01	6	2	
A 01	51.8	53.3											
A 01	53.3	54.9		1094		.01	.001	0.10	.02	.01	4	3	
A 01	54.9	56.4											
A 01	56.4	57.9		1095		.01	.001	0.40	.02	.01	2	3	
A 01	57.9	59.4											
A 01	59.4	61.0		1096		.01	.002	0.90	.02	.04	3	2	
A 01	61.0	62.5		1097		.01	.001	0.40	.02	.06	4	2	
A 01	62.5	64.0											
A 01	64.0	65.5		1098		.01	.002	0.20	.02	.08	2	2	
A 01	65.5	67.0											
A 01	67.0	68.6		1099		.01	.001	1.90	.01	.08	23	2	
A 01	68.6	70.1											
A 01	70.1	71.6		1100		.01	.001	4.70	.01	.01	3	2	
A 01	71.6	73.2											
A 01	73.2	74.7		1101		.01	.001	4.20	.01	.09	2	2	
A 01	74.7	76.2											
A 01	76.2	77.7		1103		.01	.001	4.60	.02	.01	3	2	
A 01	77.7	79.2											
A 01	79.2	80.8		1104		.01	.001	4.80	.01	.02	4	2	
A 01	80.8	82.3											
A 01	82.3	83.8		1105		.01	.001	4.80	.03	.01	6	2	
A 01	83.8	85.3											
A 01	85.3	86.9		1106		.01	.001	2.30	.01	.03	4	2	
A 01	86.9	88.4											
A 01	88.4	89.9		1107		.01	.003	0.10	.02	.04	2	2	
A 01	89.9	91.4											
A 01	91.4	93.0		1108		.01	.004	0.10	.01	.01	2	2	
A 01	93.0	94.5											
A 01	94.5	96.0		1109		.01	.002	0.10	.02	.05	2	2	
A 01	96.0	97.5											
A 01	97.5	99.1		1110		.01	.004	0.35	.01	.08	2	2	
A 01	99.1	100.6											
A 01	100.6	102.1		1111		.01	.004	0.01	.01	.05	3	2	
A 01	102.1	103.6		1112		.01	.004	0.16	.01	.16	2	2	
A 01	103.6	105.8		1113		.01	.004	0.01	.01	.15	2	2	
A 01	105.8	107.9		1114		.01	.004	2.43	.01	.21	4	2	
A 01	107.9	109.7											
A 01	109.7	111.3		1115		.01	.004	1.70	.01	.17	5	2	
A 01	111.3	112.8											

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC153 (CONTINUED)

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	ADO1 A N A L Y T I C A L D A T A RQD % W-CORE FIELD HAND	Cu % H-CORE ICM XRF	Mo % H-CORE ICM XRF	Fe % H-CORE ICM XRF	Au ppm H-CORE ICM FA	Ag ppm H-CORE ICM FA	As ppm H-CORE ACME ICP	Sb ppm H-CORE ACME ICP	Te ppm H-CORE ACME AA
A 01	112.8	114.3		1116		.01	.004	1.56	.01	.27	4	2	
A 01	114.3	115.8											
A 01	115.8	117.3		1117		.01	.004	0.50	.01	.18	2	2	
A 01	117.3	118.9											
A 01	118.9	120.4		1118		.01	.004	3.29	.01	.21	2	2	
A 01	120.4	121.9											
A 01	121.9	123.4		1119		.01	.004	3.19	.01	.20	2	2	
A 01	123.4	125.0											
A 01	125.0	126.5		1120		.01	.004	3.19	.01	.18	2	3	
A 01	126.5	128.0											
A 01	128.0	129.5		1121		.01	.004	3.43	.01	.24	2	2	
A 01	129.5	131.1											
A 01	131.1	132.6		1122		.05	.004	2.9	-0.01	.04			
A 01	132.6	134.1											
A 01	134.1	135.6		1123		.05	.003	4.8	-.01	.05			
A 01	135.6	137.2											
A 01	137.2	138.7		1124		.06	.004	4.7	-.01	.06			
A 01	138.7	140.2											
A 01	140.2	141.7		1125		.06	.004	4.5	-.01	.03			
A 01	141.7	143.3											
A 01	143.3	144.8		1126		.09	.004	4.2	-.01	-.01			
A 01	144.8	146.3											
A 01	146.3	147.8		1127		.06	.004	5.1	-.01	-.01			
A 01	147.8	149.3											
A 01	149.3	150.9		1128		.06	.005	4.1	-.01	-.01			
A 01	150.9	152.4											
A 01	152.4	153.9		1129		.05	.004	3.6	-.01	-.01			
A 01	153.9	155.4											
A 01	155.4	157.0		1130		.05	.004	4.7	-.01	-.01			
A 01	157.0	158.5											
A 01	158.5	160.0		1131		.04	.004	4.6	-.01	-.01			
A 01	160.0	161.5											
A 01	161.5	163.1		1132		.05	.004	4.5	-.01	-.01			
A 01	163.1	164.6											
A 01	164.6	166.1		1133		.05	.004	4.1	-.01	.05			
A 01	166.1	167.6											
A 01	167.6	169.2		1134		.14	.014	4.9	-.01	-.01			
A 01	169.2	170.7											
A 01	170.7	172.8		1135		.04	.003	4.6	-.01	-.01			

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC153 (CONTINUED)

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	AD02 A N A L Y T I C A L D A T A Pb ppm H-CORE ACME ICP	Zn ppm H-CORE ACME ICP	Co ppm H-CORE ACME ICP	Bi ppm H-CORE ACME ICP	Ba ppm H-CORE ACME ICP
A 02	.0	4.0							
A 02	4.0	6.1		1079	3	13	100	3	
A 02	6.1	7.6							
A 02	7.6	9.1		1080	18	14	38	4	
A 02	9.1	10.7							
A 02	10.7	12.2		1081	2	3	41	3	
A 02	12.2	13.7							
A 02	13.7	15.2		1082	7	1	9	3	
A 02	15.2	16.8							
A 02	16.8	18.3		1083	13	8	25	2	
A 02	18.3	19.8							
A 02	19.8	21.3		1084	10	2	30	2	
A 02	21.3	22.5							
A 02	22.5	24.4		1085	8	3	34	2	
A 02	24.4	25.9		1086					
A 02	25.9	27.4							
A 02	27.4	28.9		1087	9	2	34	3	
A 02	28.9	30.5							
A 02	30.5	32.0		1088	11	3	25	2	
A 02	32.0	33.5							
A 02	33.5	35.0		1089	12	2	27	2	
A 02	35.0	36.6							
A 02	36.6	38.1		1090	10	7	36	2	
A 02	38.1	39.6							
A 02	39.6	41.1		1091	4	3	37	2	
A 02	41.1	42.7							
A 02	42.7	43.9		1092	2	3	33	2	
A 02	43.9	45.7							
A 02	45.7	47.2		1102	5	5	44	2	
A 02	47.2	48.8							
A 02	48.8	50.3							
A 02	50.3	51.8		1093	5	6	61	2	
A 02	51.8	53.3							
A 02	53.3	54.9		1094	3	4	39	2	
A 02	54.9	56.4							
A 02	56.4	57.9		1095	2	3	47	2	
A 02	57.9	59.4							
A 02	59.4	61.0		1096	5	3	43	2	
A 02	61.0	62.5		1097	8	3	33	2	
A 02	62.5	64.0							
A 02	64.0	65.5		1098	3	3	11	2	
A 02	65.5	67.0							
A 02	67.0	68.6		1099	10	33	15	2	
A 02	68.6	70.1							
A 02	70.1	71.6		1100	7	134	119	4	
A 02	71.6	73.2							
A 02	73.2	74.7		1101	4	157	102	4	

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC153 (CONTINUED)

A UMM TYP LAB MTH	FROM	TO	RECOV	SAMPLE	AD02 A N A L Y T I C A L D A T A Pb ppm H-CORE ACME ICP	Zn ppm H-CORE ACME ICP	Co ppm H-CORE ACME ICP	Bi ppm H-CORE ACME ICP	Ba ppm H-CORE ACME ICP
A 02	74.7	76.2							
A 02	76.2	77.7		1103	5	55	185	3	
A 02	77.7	79.2							
A 02	79.2	80.8		1104	16	116	63	2	
A 02	80.8	82.3							
A 02	82.3	83.8		1105	15	98	41	2	
A 02	83.8	85.3							
A 02	85.3	86.9		1106	17	9	21	2	
A 02	86.9	88.4							
A 02	88.4	89.9		1107	25	2	21	2	
A 02	89.9	91.4							
A 02	91.4	93.0		1108	21	2	2	2	
A 02	93.0	94.5							
A 02	94.5	96.0		1109	43	3	2	2	
A 02	96.0	97.5							
A 02	97.5	99.1		1110	12	3	37	2	
A 02	99.1	100.6							
A 02	100.6	102.1		1111	5	3	20	2	
A 02	102.1	103.6		1112	4	3	30	2	
A 02	103.6	105.8		1113	2	5	29	2	
A 02	105.8	107.9		1114	24	1	12	2	
A 02	107.9	111.3		1115	10	1	15	2	
A 02	111.3	112.8							
A 02	112.8	114.3		1116	14	1	4	2	
A 02	114.3	115.8							
A 02	115.8	117.3		1117	6	1	2	2	
A 02	117.3	118.9							
A 02	118.9	120.4		1118	6	1	2	2	
A 02	120.4	121.9							
A 02	121.9	123.4		1119	7	10	33	3	
A 02	123.4	125.0							
A 02	125.0	126.5		1120	17	85	110	2	
A 02	126.5	128.0							
A 02	128.0	129.5		1121	22	174	52	3	

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE :DDHEC154

PROJECT IDEN : EXPO
COLLAR NORTHING: 243650.00
TOTAL LENGTH : 262.73
START DATE : 85/ 5/20
COLLAR EASTING : 233500.00
CORE/HOLE SIZE : NQ
COMPLETION DATE : 85/ 5/25
COLLAR ELEVATION: 679.70
MACHINE TYPE :
GEOLOGGED BY : HRM +
GRID AZIMUTH :
CONTRACTOR : LONGYR

SURVEY FLAG 000 | SURVEY POINT LOCATION .0 | FORESIGHT | AZIMUTH (DEGREES) | VERTICAL ANGLE (DEGREES) -90.00 | NORTHING | EASTING

KEY	FLAG	FROM	TO	CORE RECOVERY (FT.1)	% MI X	ROCK TYPE	TYPIFYING TM 1	TYPIFYING TM 2	QAL MIN MAT QM1	QAL MIN MAT QM2	TEXTURES TX 1	TEXTURES TX 2	GRAIN CHARACS F	GRAIN CHARACS C	GRAIN CHARACS %	GRAIN CHARACS M	FRACTURE #	FRACTURE TK	STRUCTUR-1 T	STRUCTUR-1 ID	STRUCTUR-1 STK AZM	STRUCTUR-1 DIP RT	ALTERATION H A QZ	ALTERATION H A BI	ALTERATION H A CY	ALTERATION H A CB	ALTERATION H A MG	MINS ANY XX	ORE-TYPE H A PY	ORE-TYPE H A CP	ORE-TYPE H A GL	MINS ANY YY	SUMMARY
K	F			ROCK	FOR	EN	RT		TM	QM2	TX	TX	S	R	S	O	DIP	F	T	ID	STK	DIP	KF	MU	CL	EP	HE	HA	PR	MO	SL	HA	
E	L			QUAL	MEM	V	Q	LC-	3		3	4	O	N	H	/	SML	I	2		AZM	RT			H	H	H	H	H	H	H	H	
Y	G			DESIG	AGE			COL					R	D	P	C					STRUCTUR-2				A	A	A	A	A	A	A	A	
P		.0	.6				STKP											P																
P		.6	4.7				OVER											P																
P		4.7	5.3				BVAN										4	P	2	VQ		40	78		94			PP	9+			4	8
L								5A									1		3	VQ		80								-		4	+
R	LTH	4.7	5.3	NO RELIC RK. COMPLETE ALT. POSS BOULDER?																														
R	TXT	4.7	5.3	SWIRLED LOOK QTZ APPEARS TO BE LARGELY DUE TO IRREG																														
R	TXT	4.7	5.3	VNS - PATCHES BETWEEN RK OF BUFF-GRY QTZ-SER? CY?																														
R	VEN	4.7	5.3	PROB V IRREG QTZ VNING - FLOODING AT 5.3M 1 CM WIDE																														
R	VEN	4.7	5.3	MICROBR W ANG RK FRAGS IN QTZ MTRX. DISSM PY																														
P		5.3	6.2				HYBR		QF	4	BR	4	6	4	M		P						87		93			PP				9	8
L								3T				5	5	7	0	7												?		-		8	-
K	TOX	5.3	5.3	LIMONITE STAIN VARIABLE IN INTENSITY																														
R	LTH	5.3	6.2	LOOKS MILLED F G BR UNIT. THIS IS RK WHICH IS WELL																														
R	LTH	5.3	6.2	EXPOSED + HAS BEEN MAP AS COMMINUTED ROCK. POSS BVAL																														
R	CMP	5.3	6.2	CONSIST OF VARIOUS GRY SHAPE QTZ SUBRND-SUBANG																														
R	CMP	5.3	6.2	F G MTRX OF MUCH FINER GR QTZ + CY																														
R	CON	5.3	6.2	APPARENT SHARP CON BUT MAY BE LATER SHR WITH STR																														
R	CON	5.3	6.2	PYROPH? + CY ALT																														
R	ALT	5.3	6.2	4" PATCH PALE BUFF PYROPH W 4MM QTZ VLTS. SHR ZONE?																														
N		5.6	5.8				X	FAUL									6	N	2	VQ		V5		/				PP				9	8
L																	9											Q9		-		8	-
P		6.2	13.4				BVAT		QF		BR						P						8X									9	X
L								0A			VG						2													-		8	-
R	COL	6.2	13.4	FAIRLY DK GRY W ORANGE DUE TO LIM																														
R	LTH	6.2	13.4	UNKNOWN RK. NOW QTZ 10-20% VUGS. LIM STAIN MTRX																														
R	LTH	6.2	13.4	ALL BUT QTZ LEACHED																														
R	TXT	6.2	13.4	LOCAL RELIC BR. SAME AS IN HYBR W CROSSCUT RELATION																														
R	TXT	6.2	13.4	HAS V GRANULATED LOOK IN GENERAL. POSS QTZ FRAGS																														
R	TXT	6.2	13.4	VAGUE HINT OF QTZ VNING. VUGS W QTZ X'LS + LIM STAIN																														
R	VEN	6.2	13.4	AT 11.9M OBVIOUS RELIC QTZ VEIN																														

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC154 (CONTINUED)

KEY	FL AG	FROM	TO	CORE RECOVERY (FT.1)	% MI X	ROCK TYPE	TYPIFYING MINERALS TM 1	TM 2	QAL MIN MAT QM1	QM2	TEXTURES TX 1	TX 2	GRAIN CHARACS F	S	FRACTURE C	R	% S	M O	# DIP	TK	STRUCTUR-1 T	ID	STK AZM	DIP RT	ALTERATION MINS H A QZ	H A BI	H A CY	H A CB	H A MG	H A ANY MIN XX	ORE-TYPE MINS H A PY	H A CP	H A GL	H A ANY MIN YY	SUMMARY
K	F			ROCK	FOR	EN RT		TM	QM2		TX	TX	S	R	S	O	DIP	F			T	ID	STK	DIP	KF	MU	CL	EP	HE	HA	PR	MO	SL	HA	
E	L			QUAL	MEM	V Q	LC-	3			3	4	O	N	H	/	SML	I			2		AZM	RT			H	H	H	H	H		H	H		
Y	G			DESIG	AGE		COL						R	D	P	C							STRUCTUR-2				A	A	A	A	A		A	A		
P		13.4	25.6			BVAN			QF		BR		K		N			P		30	8X												9	X
L							OA				VG		2	3	5	0		2														(		8	(
R	TXT	13.4	25.6	HAS PRONOUNCED CROSSCUTS OF F G BR. SAME LOOK AS THAT																																
R	TXT	13.4	25.6	DESCRIBED IN 5.3-6.2M. ZONES TYPICALLY A FEW MM WIDE																																
R	TXT	13.4	25.6	UP TO OVER .3M. POSS CATACLASTIC. SHEARING?																																
R	TXT	13.4	25.6	HAS GROUND-UP APPEAR. HYDROTH?																																
R	VEN	17.4	23.2	QTZ VNS BECOME PROMINENT. MAIN SET ABOUT 60 DEGREES TO																																
R	VEN	17.4	23.2	CA WK CROSS CUT VNS																																
R	TXT	17.4	23.2	AT 19.8,.3M ZONE V FINE GROUND UP RK W STR LIM																																
R	TXT	17.4	23.2	STAIN IN MTRX ASSOC 3 MM CRISS-CROSS QTZ VNING																																
N		17.4	23.2		X	BVAB			QF		BR							4	N	2 VQ	60	7X												9	X
L							OA				VG							2														-		8	-
P		25.6	37.0			BVAT			QF		BR		3	6		N		P			8X												9	X
L							OA				VG		2	3	5			4														-		8	-
R	TXT	25.6	37.0	ZONES OF RUSTY GROUND-UP RK W SUBANG QTZ GRAINS																																
R	TXT	25.6	37.0	SAND-SIZE TO 3 MM IN SILT SIZE MTRX SILT SIZE COMPONENT																																
R	TXT	25.6	37.0	APPARENT CROSS-CUT W QTZ FRAGS HYDROTH																																
R	TXT	25.6	37.0	THIS COMMON IN EXPOSURES F G BR DIKES																																
R	VEN	25.6	37.0	SOME RANDOM QTZ VNING																																
R	TXT	25.6	37.0	SOME SECTS W FINE SAND MTRX. POROUS (TUFF OR SED)																																
N		25.6	26.8		X	BVAT			QF		BR		3	6		N		3	N			8X												9	X
L							30				VG		2	3	5			6														(		8	(
R	VEN	30.5	31.4	VAGUE QTZ VNING. MOSTLY APPARENT BROKEN QTZ VN FRAGS																																
N		30.5	31.4		X	BVAT			QF		BR		3	6		N		7	N	2 VQ	70	8X												9	X
L							OA				VG		2	3	5			2														-		8	-
R	TXT	31.4	32.6	V VUGGY LOT OF BROKEN QTZ VNS. ALMOST BOX WK LOOK																																
R	COL	31.4	32.6	DK BRN TO BLK X'L COATINGS MNO? SOME STIBNITE?																																
R	VEN	31.4	32.6	MAIN SECT OF VEINS ABOUT 10 DEGREES TO 30 DEGREES																																
R	VEN	31.4	32.6	C/A V IRREG																																
N		31.4	32.6		X	BVAT			QF		BR		3	6		N		7	N	2 VQ	20	69												9	X
L							4U				VG		2	3	5			2														-		8	-
R	TXT	32.6	34.1	APPARENT FRAGS OF BROKEN QTZ VN																																
N		32.6	34.1		X	BVAT			QF		BR		3	6		N		3	N			8X												9	X
L							OA				VG		2	3	5			4														-		8	-
R	VEN	34.1	37.0	VAGUE VNING																																
R	TXT	34.1	37.0	AT 36M,.2M SECT OF SAND TO SILT SIZE QTZ GRAINS W																																
R	TXT	34.1	37.0	LIM STAIN HAS 1 MM LAM ABOUT 80 DEGREES TO C/A TUFF?																																
R	TXT	34.1	37.0	SOFT SED SLUMP? SHARP CONT PROB FINE TUFF BAND																																
R	TXT	34.1	37.0	VERY POROUS THROUGHOUT																																
N		34.1	37.0		X	BVAT			QF		BR		3	6		N		6	N	1 VQ	20	8X												9	X
L							5U				VG		2	3	5			2		1 BD	80												-		8	-
P		37.0	39.9			BVAN												8	P	SW		79								PP				7	X

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC154 (CONTINUED)

KEY	FROM	TO	CORE RECOVERY (FT.1)	% ROCK TYPE	TYPIFYING TM 1	TM 2	QAL MIN MAT QM1	TEXTURES TX 1	TX 2	GRAIN CHARACS F	C	%	M	FRACTURE #	TK	STRUCTUR-1 T	ID	STK AZM	DIP RT	ALTERATION HA QZ	HA BI	HA CY	HA CB	HA MG	ANY MIN XX	ORE-TYPE HA PY	HA CP	HA GL	ANY MIN YY	SUMMARY
K E Y	F L A G	FROM - TO (UNITS = FT)		FOR MEM AGE	EN V	RT Q	TM QM2	TX 3	TX 4	S O R	R N D	S H P	O / C	DIP SML	E I	T 2	ID	STK AZM	DIP RT	KF	MU	CL H	EP H	HE H	HA H	PR H	MO H	SL H	HA H	
			ROCK QUAL DESIG		LC- COL													STRUCTUR-2				A	A	A	A	A	A	A	A	
L					TA									2							/				Q6		1*			4 *
R	COL	37.0	39.9		MOSTLY MOTTLED 35% WHT-BUFF CY? PYROPH PATCHES																										
R	COL	37.0	39.9		SET IN FAIR DK GRY QTZ																										
R	TXT	37.0	39.9		LOOKS LIKE QTZ VNING SPREADING TO PERVASIVE																										
R	LTH	37.0	39.9		COULD BE INTRUS																										
P		39.9	51.5		PPEX		P/			K	3	L		21	P	2	SH		5	88		86			1)					3 8
L					A									2		2	VP		30		/					1.			1)
R	LTH	39.9	50.3		POSS FX POR INTRUS. FAIRLY COARSE																										
R	TXT	39.9	50.3		SUGGESTION OF POR TXT BY VAGUE LATH-LIKE OR RECTANG																										
R	TXT	39.9	50.3		EVENLY DISTRIB (35%) CLY? ALT PATCHES (WHT-BUFF)																										
R	CMP	39.9	50.3		MTRX GRY QTZ W WK PERVAS SOFT ALT PRODUCT																										
R	STR	39.9	50.3		AT 41.5 MICROSHR W STR PY NEARLY PARALLEL C/A																										
R	COL	39.9	50.3		BLEACHED SECTS TO V PALE GRY. NO SULPHS HERE. VARIOUS																										
R	COL	39.9	50.3		GRY SHADES																										
R	MNZ	39.9	50.3		FRCTS W PY MOLY COATS - WK MOLY GRAIN SET WITHIN PY																										
R	MNZ	39.9	50.3		SOME DK GRY ZONES WHERE PY CONC UP TO 1-2% ONLY																										
R	MNZ	39.9	50.3		INCHES WIDE																										
R	XRD	45.1	45.1		THIN SECT. WHT PATCH X-RAY DICKITE. THIN SECT ALSO ILLITE?																										
R	XRD	45.1	45.1		+ PYROPH?																										
R	XRD	45.1	45.1		DICKITE IN MTRX																										
R	TXT	46.8	47.3		SOME PROB XENOS PROB SOME PYROPH																										
R	VEN	46.8	47.3		QTZ VEIN CROSS CUTS + DISPLACES NARROWER QTZ-MOLY																										
N		46.8	47.3	X	PPEX		P/			K	3	L		23	N	1	VM		30	88		86			1*					7 8
L					A									3		3	VQ		30		/					1.			1 *
R	XRD	48.5	48.5		X-RAY DETERMINATION OF DICKITE QTZ DIASPORE																										
N		48.9	49.2	X	PPEX		P/			K	3	L		23	N	2	SH		5	88		86			7)					3 8
L					A									3		2	VP		30		/					1(			1)
N		50.3	51.5	X	PPEX		P/			K	3	L		21	N	2	SH		5	86		97			1)					3 8
L					3A									2		2	VP		30		/					1.			1)
P		51.5	54.5		BVAL	QF	BR		3	6		M			P	3	SH		30	99		93								9 9
L					OA				5	5	7	0		4																0 0
R	LTH	51.5	54.5		AS DESCRIBED ABOVE. POSS LARGE XENOLITH																										
N		53.2	54.5	X	BVAL	QF	BR		3	6		M			N	3	SH		30	9X		93								9 X
L					OA		VG		5	5	7	0		2													(			8 (
P		54.5	55.2		BVAL		BR		G	6	2	M			P					95		97								3 8
L					O				2	1	7	0		4													-			8 -
R	LTH	54.5	55.2		IRREG QTZ GRAINS IN LIM STAIN FINE SAND TO SILT																										
R	LTH	54.5	55.2		MTRX. POROUS. PREVIOUSLY DESCRIBED																										
R	ALT	54.5	55.2		UP TO 1" SOFT CREAM COLOURED PATCH. PROB CY																										
P		55.2	73.6		PPEX		P/			K	3	L			P					88		Q5								3 8

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC154 (CONTINUED)

K E Y	F L A G	- INTERVAL - (UNITS = FT) FROM	TO	CORE RECOVERY (FT.1)	% MI X	ROCK TYPE	TYPIFYING TM 1	TM 2	QUAL MIN MAT QM1	TEXTURES TX 1	TX 2	GRAIN CHARACS F	C	% C	M P	#	TK	FRACTURE T 1	ID	STK AZM	DIP RT	STRUCTUR-1 QZ	BI	CY	CB	MG	XX	PY	CP	GL	YY	SUMMARY
K E Y	F L G			ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q	LC- COL	TM 3	QM2	TX 3	TX 4	S O R	R N D	S H P	O / C	DIP SML	F I	T 2	ID	STK AZM	DIP RT	STRUCTUR-2	KF	MU	CL H A	EP H A	HE H A	HA H A	PR H A	MO H A	SL H A	HA H A	
L								7A										2												-			8 -
R	TXT	55.2	73.6	AS ABOVE PPFX. V VAGUE POR APPEARS FAIRLY COARSE																												
R	CMP	55.2	73.6	30-40% RELIC STR CY (WHT - SOFT) ALT PHENOS. MTRX																												
R	CMP	55.2	73.6	ESSENTIALLY MED GRY QTZ																												
R	CMP	57.3	57.6	POLYLITH QTZ 35% SOME DK GRY 5-10% PPFX (F.G)																												
R	CMP	57.3	57.6	A FEW ALT FRAGS W STR DISSM PY. 4% DISSM PY MTRX																												
R	TXT	57.3	57.6	POSS MILLED SIZE GRADES DOWN TO GRANULE + SAND																												
R	CON	57.3	57.6	CROSSCUTS PPFX AT SHALLOW ANGLE TO C/A. INJECTED																												
N		57.3	57.6	X	HYBR			QZ3	BR		G	L	4	7			N		C/		T30	88		3				D+				3 8
L								3A		RF1			3	3	7	0													-			4 +
R	COL	58.5	60.2	GRY SHADING VARIES PALE-V PALE BLEACH																												
N		58.5	60.2	X	PPFX				P/		K	3	L				4	N	2	VQ	60	88		Q5								3 8
L								7A									2		2	VQ	30								-			8 -
R	LTH	60.2	60.7	AT 61...1M SECT 60 DEGREES TO C/A OF V PALE BUFF SILTY																												
R	LTH	60.2	60.7	RK LOOKS SAME AS AT 36.M CONTAINS WHT CY PATCHES																												
R	LTH	60.2	60.7	+ LT GRY SIL-CY? SUBANG 2-4 MM FRAGS. PROB PYROPH																												
R	LTH	60.2	60.7	+ CY IN MTRX. NOT SILICEOUS																												
N		60.2	60.7	X	HYBR			QZ	BR		G	6	4	M			N		C/		25	9X										9 X
L									VG		3	3	7	0															-			8 -
R	VEN	60.7	65.8	STILL VAGUE VNING BUT NOW MASKED DUE TO INCREASE IN PERVAS QTZ																												
N		60.7	65.8	X	PPFX				P/		K	3	L				4	N	3	SH	30	89		Q2								9 9
L								7A									3												-			0 0
R	LTH	65.8	68.9	PROB PPFX BUT EXTR SIL FLOOD + LEACH. SAME AS UNIT																												
R	LTH	65.8	68.9	AT ABOUT 15.2M																												
N		65.8	68.9	X	PPFX												N	3	VQ		30	8X										9 X
L									VG								1															8 -
N		68.9	69.6	X	PPFX				P/		K	3	L				N					87		Q7								3 7
L								7A									2												-			8 -
R	LTH	69.6	71.0	SAME AS 57.3-57.6M																												
N		69.6	71.0	X	HYBR			QF4			G	L	4	M			N		C/		T15	99		Q2			PP	D+				9 9
L								4A			5	3	7	0			1										?					1 +
R	STR	71.0	73.6	RUST STN SHR 25 DEGREES TO C/A AT 72.1 ALSO AT 75.3																												
N		71.0	73.6	X	PPFX				P/		K	3	L				N	3	SH		25	88		Q5								3 9
L								7A									3												-			8 -
P		73.6	79.3	PPFX					P/		K	4	L				6	P		VQ	45	68		Q7			PP					3 8
L								7A									4			VQ	20		?				?					8 -
R	VEN	73.6	79.3	THIS SECT CHARACTERIZED BY QTZ VNING FROM 2MM TO 2-3 IN																												
R	VEN	73.6	79.3	W ADJ SIL FLOOD. SOME CRISS-CROSS. MAIN SET ABOUT 45 DEGREES																												
R	VEN	73.6	79.3	DENSITY VARIES																												
R	TXT	73.6	79.3	AS BEFORE WHT STR CY? ALT FX? PHENOS (IRREG) IN QTZ MTRX																												
R	ALT	76.5	77.9	AT 77.7M VLTS LARGE PATCHES CREAM CY? SOME PYROPH?																												
R	ALT	76.5	77.9	ASSOC W QTZ VNING - FLOODING																												
R	XRD	76.5	77.9	THIN SECTION + X-RAY SHOW DICKITE IN LT PINK + TAN PATCHES																												

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC154 (CONTINUED)

KEY	FLAG	- INTERVAL - (UNITS = FT) FROM	- TO	CORE RECOVERY (FT.1)	ROCK QUAL DESIG	FOR MEM AGE	% MIX	EN V	RT Q	ROCK TYPE	TYPIFYING MIN TM 1	TYPIFYING MIN TM 2	QAL MIN MAT QM1	QAL MIN MAT QM2	TEXTURES TX 1	TEXTURES TX 2	GRAIN CHARACS F	GRAIN CHARACS C	GRAIN CHARACS %	GRAIN CHARACS M	FRACTURE DIP	FRACTURE #	FRACTURE TK	STRUCTUR-1 T	STRUCTUR-1 ID	STRUCTUR-1 STK AZM	STRUCTUR-1 DIP RT	ALTERATION MINS H A QZ	H A BI	H A CY	H A CB	H A MG	ORE-TYPE MINS H ANY MIN XX	H A PY	H A CP	H A GL	H ANY MIN YY	SUMMARY
N		76.5	77.9				X			PPFX				P/			K	4	L		6	N		VQ		45	79		84		PP				3	9
L											7A										4				VQ		20		?			?				8	-
P		79.3	85.6							BVAB		QZ4		BR			4	6	4	N	4	P	2	VQ		50	8X								9	X
L											5U						3	5	7	0	2												.			8	.
R	TXT	79.3	85.6	NOT VISIBLE IN SOME SECTS LOCAL WELL DEVELOPED																																		
R	TXT	79.3	85.6	VARIOUS LITHOLOGIES? POSS QTZ VN? FEW DK QTZ FRAGS																																		
R	VEN	79.3	85.6	VAGUE																																		
R	LTH	79.3	85.6	MOST OF SECT ESSENTIALLY MASS QTZ PROB SAME 51.5-55.2M																																		
R	ALT	79.3	79.8	AT UPPER CONT ZONE WHT CY APPEARS TO BE FAUL. FILL																																		
R	ALT	79.3	79.8	IRREG CONT BUT ABOUT 10 DEGREES TO C/A																																		
N		79.3	79.8				X			FAUL											N								9X								
N		85.1	85.3				X			FAUL											N				SH		B25	97		97							
P		85.6	98.8							PPFX				P/							5	P	3	VQ		60	88		Q4						3	9
L											6A										4														0	0
R	VEN	85.6	98.8	PROMINENT VNING SEVERAL OVER 1 IN																																		
R	FRC	85.6	86.7	PROB FAULT ZONE AGAIN W MASS SILICA SECT																																		
N		85.6	86.7				X			PPFX				P/							5	N	4	SH		25	85		97						3	9
L											6A										9												-		8	-
R	LTH	86.7	87.5	POSS QTZ VN OR COMPLETE SIL FLOOD OF ORIG RK																																		
N		86.7	87.5				X			QTZV											N							9X							9	X
L														VG																		-		8	-
R	FRC	87.5	88.7	PROB PART OF ABOVE FAULT ZONE																																		
N		87.5	88.7				X			PPFX				P/							3	N	3	VQ		60	75		97						3	9
L											7O										9												-		8	-
N		88.7	90.2				X			PPFX				P/							5	N	3	VQ		60	88		Q4						3	9
L											6A										6		4	SH		25									8	-
R	FRC	89.9	89.9	1-2" WIDE SHR 25 DEGREES TO C/A																																		
P		98.8	99.9							HYBR		QF4		BR			4	6	4	M		P		C/		30	98		92						9	8
L											7A						3	5	7	0	7														0	0
R	STR	98.8	99.9	CONTAINS NARROW MICROBR ZONES TYPICALLY LESS 1 CM																																		
R	STR	98.8	99.9	THESE DESCRIBED IN UPPER PART OF HOLE. HAVE SAME																																		
R	STR	98.8	99.9	COMP BUT MOSTLY 1-2 MM FAIR ANG QTZ GRAINS																																		
R	LTH	98.8	99.9	CROSSCUTS PPFX. RUST COL SHR CONT																																		
P		99.9	101.0							PPFX				P/							4	P	1	VQ			89		Q3						9	9
L																					8							93							0	0
R	VEN	99.9	101.0	VNING V VAGUE																																		
R	ALT	99.9	101.0	PROB INTENSIFIED DUE TO FAULT																																		
P		101.0	110.6							FAUL				BR			2	N	6	O		P		C/		T30			98						3	8

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC154 (CONTINUED)

KEY	FLAG	- INTERVAL - (UNITS = FT) FROM	TO	CORE RECOVERY (FT.1)	%MIX	ROCK TYPE	TYPIFYING MINERAL TM1	TYPIFYING MINERAL TM2	QAL MAT QM1	QAL MAT QM2	TEXTURES TX1	TEXTURES TX2	GRAIN CHARACS F	C	%	M	FRACTURE #	TK	STRUCTUR-1 T1	ID	STK AZM	DIP RT	ALTERATION MINS H A QZ	H A BI	H A CY	H A CB	H A MG	H ANY MIN XX	ORE-TYPE H A PY	H A CP	H A GL	H ANY MIN YY	SUMMARY
K EY	F L AG	FROM	TO	ROCK QUAL DESIG	FOR MEM AGE	EN V X	RT Q	TM LC- COL	3	QM2	TX 3	TX 4	S O R	R N D	S H P	O / C	DIP SML	F I	T 2	ID	STK AZM	DIP RT STRUCTUR-2	KF	MU	CL H A	EP H A	HE H A	HA H A	PR H A	MO H A	SL H A	HA H A	
L								30					3	1	7	C		9			SH	00							.			8	.
R	LTH	101.0	110.6		FAULT BR. SHR PARALLEL TO C/A. COATED W V DK BRN																													
R	LTH	101.0	110.6		BOTTRIODAL PRECIPITATE. GOETHITE +/or MNO. YELLOW																													
R	LTH	101.0	110.6		ANG FRAGS IN DK ORANGE MTRX. MONOLITH BR																													
R	TXT	101.0	110.6		LARGE SIZE GRADATION. NEAR SHR MUCH FINER MTRX SUPPORT																													
R	LTH	101.0	101.5		THIS IS ZONE OF QTZ VNS A FEW IN THICK 1-2' MASS																													
R	LTH	101.0	101.5		PY SEAMS PATCHES + QTZ PY VNS SOME CY																													
N		101.0	101.5		X	FAUL		BR			2	N	6	0				N	7	VA		T30	67		94			61				3	8
L											3	1	7	C		8			4	VP		90										1	1
R	VEN	101.5	103.5		CY VNS CUT QTZ-PY																													
N		101.5	103.5		X	FAUL												N	2	VC		15	99		84			V(				9	9
L								0A											4	VA		30		/								1	(
N		106.7	110.6		X	FAUL		BR			2	L	4	L				N		SH		T 0			98							3	8
L								3D			3	1	7	0		X				SH		00							.			0	0
P		110.6	112.8			PPFX		VG										P					8X		Q2							9	X
L								4A			KR							6															0	0
R	LTH	110.6	112.8		PROB COMPLETE SILIC SECT OF INTRUS. DUE TO PROXIMITY																													
R	LTH	110.6	112.8		OF FAULT? SAME AS RK NEAR TOP OF HOLE (15.2)																													
R	TXT	110.6	112.8		VAGUE SHATTERED APPEAR. VUGS CY LINED PROB REPRESENT LEACH																													
R	TXT	110.6	112.8		PHENOS																													
R	VEN	110.6	112.8		VAGUE SMOKY GRY VLTS																													
P		112.8	115.1			PPFX		P/										P					88		Q4							3	8
L								7A										7															0	0
R	ALT	113.5	114.1		SECTION OF SIL FLOOD																													
N		113.5	114.1		X	PPFX												4	N	2	VQ	65	8X										
L																		6															
N		114.2	115.1		X	FAUL												N		FR		5			98								
L								0A			BR																						
P		115.1	120.9			BVAB		QE2		BR			4	M	4	0		P					93		87			PP				3	7
L								8A		RE2			3	3	7	0		7						?				?				0	0
R	TXT	115.1	120.9		LOCAL FRAMEWK SUPPORT. REBR LOOK POLYLITH SOM BR FRAGS																													
R	LTH	115.1	120.9		PRIOR HYDROTH BR																													
R	ALT	115.1	120.9		LITTLE IF ANY SILIC. BR FRAGS SIL-CY OR SER ALT																													
R	XRD	116.4	116.4		BEIGE MIN IN MTRX IS DICKITE																													
N		119.6	120.9		X	BVAB		QE2		BR			4	M	4	0		N		SH		30	93		99			PP				3	7
L								8A		RE2			3	3	7	0		9						?				?				0	0
P		120.9	131.7			PPFX		P/										5	P	2	VQ	30	89		Q4							3	9
L								6A										6		4	VQ	60										0	0
R	TXT	120.9	131.7		ALMOST GONE IRREG CY PATCHES UP TO 7 MM IN QTZ																													
R	LTH	121.3	122.5		DIKE POSS MILLED OR SILIC HYDROTH BR																													

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC154 (CONTINUED)

KEY	F L A G	- INTERVAL - (UNITS = FT) FROM	TO	CORE RECOVERY (FT.1)	% MIX	ROCK TYPE	TYPIFYING TM 1	TM 2	QAL MIN MAT QM1	TEXTURES TX 1	TX 2	GRAIN CHARACS F	C	%	M P	FRACTURE # TK	F	STRUCTUR-1 T 1	ID	STK AZM	DIP RT	ALTERATION H A QZ	H A BI	H A CY	H A CB	H A MG	MINS H A XX	ANY MIN	ORE-TYPE H A PY	H A CP	H A GL	MINS ANY MIN	SUMMARY
K E Y	F L G			ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q	TM	QM2	TX 3	TX 4	S O R	R N D	S H P	O / C	DIP SML	F I	T 2	ID	STK AZM	DIP RT STRUCTUR-2	KE	MU	CL H A	EP H A	HE H A	HA H A	PR H A	MO H A	SL H A	HA H A		
R	ALT	121.3	122.5		AT LOWER CONT 6" MASS OF PALE CREAM CY (+PYROPH?)																													
N		121.3	122.5		X	HYBR			QF5	BR		6	6	M		3	N		C/		T75	89		93								9 9
L									RF1			3	1	7	0	3																0 0
R	TXT	122.5	123.7		TXT DESTROYED																												
N		122.5	123.7		X	PPFX										3	N	2	VQ		30	89		99			PP					7 9
L							6A									7					60						/					0 0
R	TXT	124.7	126.2		ONLY V VAGUE																												
N		124.7	126.2		X	PPFX		P/								5	N	2	BR		15	89		8X								9 X
L							6A									6		4	VQ		60											0 0
N		126.2	127.8		X	PPFX		P/								6	N	2	VQ		30	89		Q4								3 9
L							6A									6		4	VQ		60											0 0
R	STR	127.8	129.3		IRREG F.G BR INTO EXTR SIL INTRUS? BR HAS STR LIM STAIN																												
R	STR	127.8	129.3		SOME CY MTRX MOD ANGLE TO C/A																												
R	TXT	127.8	129.3		MILLED?																												
R	LTH	127.8	129.3		POSS SIBR W NARROW F.G BR VLTS																												
N		127.8	129.3		X	HYBR				BR		2	K	3	L		N						89									9 9
L							0A						1	5	0														.			8 .
N		129.5	130.2		X	FAUL										6	N	5	VA			78		88				V+				3 X
L							0A									9																4 +
N		130.2	130.6		X	PPFX		P/								6	N	2	VQ		50	89		Q4								3 9
L							6A									6		2	VQ		35											0 0
N		130.6	131.4		X	FAUL											N			SH	35			9X								
L							PT																										
P		131.7	135.3			BVAN										7	P							8X								9 X
L							5O									3														-		8 -
R	VEN	131.7	135.3		VAGUE DARKER QTZ VLTS RANDOM																												
P		135.3	143.3			PPFX		P/								5	P	3	VQ		80	66		97			PP					3 9
L							TA									7		2	VQ		45						?		.			8 .
R	TXT	135.3	143.3		ONLY V VAGUE STILL CY PATCHES STR QTZ VNING																												
N		135.7	136.2		X	FAUL											N					66		99								
L																X																
N		137.9	138.1		X	FAUL											N	4	VQ		25	64		98			PP					
L																X																
N		139.0	139.3		X	FAUL											N																
L																X																
R	LTH	140.1	141.1		MAY JUST BE EXTR SILIC PPFX W SOME SHATT																												
N		140.1	141.1		X	BVAT		QF5	B/			4	L	5	L		N						9X		93								9 X
L							0A					5	3	7	0	5														.			8 .
R	CON	141.4	141.7		VAGUE. BELOW IS MASS QTZ. .1M. POSS VEIN																												
N		141.4	141.7		X	BVAT											N			C/	T20	98		92								9 8
L							7A																?							.		8 .
R	LTH	141.7	143.3		LOWER .3M CONTAINS BR FRAGS MOSTLY DK GRY QTZ																												

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC154 (CONTINUED)

KEY	FLAG	- INTERVAL - (UNITS = FT) FROM	TO	CORE RECOVERY (FT.1)	% MI X	ROCK TYPE	TYPIFYING MINERALS TM 1	TM 2	QAL MIN MAT QM1	TEXTURES TX 1	TX 2	GRAIN CHARACS F	C	%	M P	#	TK	FRACTURE DIP	F	STRUCTUR-1 T 1	ID	STK AZM	DIP RT	STRUCTUR-2 T 2	ID	STK AZM	DIP RT	ALTERATION MINS H QZ	H BI	H CY	H CB	H MG	H ANY MIN XX	ORE-TYPE MINS H PY	H CP	H GL	H ANY MIN YY	SUMMARY
KEY	FLAG			ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q	LC- COL	TM 3	QM2	TX 3	TX 4	S O R	N D	H P	/ C	DIP SML	F I											KF	MU	CL H A	EP H A	HE H A	HA H A	PR H	MO H A	SL H	HA H	
R	LTH	141.7	143.3					NOT SURE IF XENOLITH OR CATACLASTIC BR. PROB SAME																															
R	LTH	141.7	143.3					AS MIBR. THERE ARE A FEW VLTS OF MICROBR																															
N		141.7	143.3			X	PPEX											N	3	VQ		80	89		92			PP								9	9
L								6A										3		4	BR		45					?		-						8	-
P		143.3	145.4				CLAY											3	P									9X		PP						3	X
L								6T																						/						8	-
R	LTH	143.3	145.4					NOT KNOWN. NOW MASSIVE CY. POSS SOME PYROPH. DICKITE																															
R	XRD	143.6	143.6					X-RAY OF DICKITE																															
R	XRD	143.9	143.9					X-RAY OF DICKITE																															
N		144.3	144.9			X	FAUL											3	N									9X		PP						3	X
L								6T										9												/						8	-
N		144.9	145.4			X	CLAY											5	N	3	VQ		30	66				9X		PP						3	X
L								6T										7												/						8	-
P		145.4	146.5				BVAT		QF3	BR									P									9X								9	X
L								6A										7																-		8	-
R	STR	145.4	146.5					AT FAULT CONT F.G CATACLASTIC BR + SOME BUFF MICROBR																															
R	STR	145.4	146.5					FINE SAND-SIZE QTZ GRAINS																															
R	LTH	145.4	146.5					MONOLITH PROB CATACLASTIC BR																															
P		146.5	148.4				FAUL												P		SH		15					9X								3	X
L																		X																		0	0
P		148.4	150.3				BVAT		QF3	BR			L	3	M				P	3	VQ		20	86		97			PP								3	9
L								TA				2	1	9	0		6																			0	0
R	LTH	148.4	150.3					SAME AS 145.4-146.5 BUT NOT AS SILIC. ALSO GROUND UP																															
R	LTH	148.4	150.3					MICROBR AS ABOVE																															
P		150.3	157.1				PPEX			P/								5	P					88		97			PP								3	9
L								TA									7											?								0	0
R	TXT	150.3	157.1					NOW V VAGUE DUE TO V STR ALT																															
R	VEN	150.3	157.1					GEN V VAGUE QTZ VLTS BUT MORE OBVIOUS LOCALLY																															
N		150.9	151.9			X	PPEX											5	N									99		PP						7	9
L								8T										3												/						0	0
R	LTH	152.6	154.1					GEOL RELATION SUGGESTS MAY BE SIL REPLACED PPEX																															
N		152.6	154.1			X	BVAN												N	6	SH		50	9X												9	X
L								0A																														0	0
R	TXT	155.8	157.1					TXT GONE NOW BUFF IRREG CY (+ PYROPH?) PATCHES IN QTZ																															
R	TXT	155.8	157.1					MTRX W APPARENT BROKEN QTZ VNING																															
N		155.8	157.1			X	PPEX											5	N					89		Q6			PP								3	9
L								TA										5											?								0	0
P		157.1	165.0				BVAB			BR								6	P	7	VC		80	7X		85			PP	V(							9	X

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC154 (CONTINUED)

KEY	F L A G	- INTERVAL - (UNITS = FT) FROM	TO	CORE RECOVERY (FT.1)	% M I X	ROCK TYPE	TYPIFYING MIN TM 1	TYPIFYING MIN TM 2	QAL MIN MAT QM1	TEXTURES TX 1	TEXTURES TX 2	GRAIN CHARACS F	C	%	M P	# TK	FRACTURE DIP	F	STRUCTUR-1 T 1	ID	STK AZM	DIP RT	ALTERATION MINS H QZ	H BI	H CY	H CB	H MG	H ANY MIN XX	ORE-TYPE MINS A PY	H CP	H GL	H ANY MIN YY	SUMMARY
K	F			ROCK	FOR	EN	RT		TM	QM2	TX	TX	S	R	S	O	DIP	F	T	ID	STK	DIP	KF	MU	CL	EP	HE	HA	PR	MO	SL	HA	
E	L			QUAL	MEM	V	Q	LC-	3		3	4	O	N	H	/	SML	I	2		AZM	RT			H	H	H	H	H	H	H	H	
Y	G			DESIG	AGE			COL					R	D	P	C			STRUCTUR-2						A	A	A	A	A	A	A	A	
L									5A								6		4	VQ								?				1 (
R	TXT	157.1	165.0					BR LOCAL + APPEARS TO BE ADJACENT TO FRC ZONES																									
R	LTH	157.1	165.0					PROB QTZ VNS OR SERIES OF VNS W FRC + BRIATION																									
R	LTH	157.1	165.0					W SOME INCORP WALL RK																									
R	VEN	157.1	165.0					MUCH IRREG V VAGUE QTZ VNING + ADJAC FLOOD. A FEW																									
R	VEN	157.1	165.0					QTZ PY VNS ALONG SHRS 1-3 CM WIDE. CY VNS W QTZ FRAGS																									
R	VEN	157.1	165.0					IN FRC ZONES W BRIATION IN WALL RK																									
R	LTH	161.7	162.1					PROB CATACLASTIC AS DESCRIBED ABOVE																									
N		161.7	162.1		X	BVAB		QF	BR		6		M				N		7	VC		80	9X		76		PP				9	X
L									5A				3	7	0		6		4	VQ								?				0	0
N		163.1	165.0		X	BVAB			BR								6	N	6	VC		65	77		88		PP				3	X
L									5A								9		4	VQ								?				0	0
P		165.0	169.6						EAUL																								
L									4A								5	P	3	VQ			74		98		PP	8=		C*	CV	7	9
K	BOX	165.0	165.0														X			VA				?			Q5			C	*	6	=
R	XRD	167.6	167.6					THIN SECT + X-RAY SHOW PATCHES PYROPH? MINOR CY. DICKITE IN																									
R	XRD	167.6	167.6					MTRX																									
P		169.6	175.9						BVAN																								
L									5A								4	P	3	VQ		60	67		97		PP	8=		C(	CC	7	9
R	LTH	169.6	175.9					NO RELIC TXT. COMPLETE ALT POSS EVEN INTRUS									7							/			/		1.	C*		6	=
R	VEN	169.6	175.9					WELL DEVEL QTZ VNLTS H/L FRCTS W CC, BO CUT VLTS																									
R	MIN	169.6	175.9					CC>BO AS PY COTS. H/L FRC COTS + DISSM MO NOTED																									
R	MIN	169.6	175.9					AS TINY WK DISSM IN QTZ VLT																									
R	ALT	169.6	175.9					BUFF COL PYROPH AS PATCHES MIX W CY. SOME SER?																									
N		171.0	171.8		X	BVAN											4	N	3	VQ		60	67		99		PP	8=		C(	CC	7	9
L									5A								X							/			/		1.	C*		6	=
N		174.6	175.9		X	BVAN											4	N	3	VQ		60	67		97		PP	8=		C(	CC	7	9
L									5A								X							/			96		1.	C*		6	=
P		175.9	179.2						BVAN									P	4	VA		60	88		95		PP	8=		C-	CV	4	9
L									3A								3							/			/		D.	1)	-	6	=
R	MNZ	175.9	179.2					OCCUR AS ABOVE H/L COATING CROSS QTZ VNS + HOST RK																									
R	ALT	175.9	179.2					UNCERTAIN. VERY POSSIBLY PHYLLIC ALT PRODUCT IS SOFT																									
R	ALT	175.9	179.2					W BUFF HUE OCCUR AS PATCHES IN QTZ																									
P		179.2	183.3						BVAN																								
L									TA								4	P					87		96		PP	8=				4	9
N		180.1	182.6		X	BVAN											4							/			/		.	1*		6	=
L									TA								4	N					87		96		PP	8=				4	9
R	LTH	181.8	182.1					POLYLITH MOSTLY QTZ FRAGS. ALSO STR ALT RK FRAGS IN PY																									
R	LTH	181.8	182.1					RICH BUFF COL MTRX																									
N		181.8	182.1		X	BVAB			QF3				M	5	7			N					87		96		PP	81				4	9
																	4		4	VQ								?				1 (

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC154 (CONTINUED)

KEY	FLAG	FROM	TO	CORE RECOVERY (FT.1)	%MIX	ROCK TYPE	TYPIFYING MIN TM 1	TYPIFYING MIN TM 2	QAL MIN MAT QM1	TEXTURES TX 1	TEXTURES TX 2	GRAIN CHARACS	FRACTURE	STRUCTUR-1 T 1	ID	STK AZM	DIP RT	ALTERATION MINS HA QZ	HA BI	HA CY	HA CB	HA MG	ANY MIN XX	ORE-TYPE MINS HA PY	HA CP	HA GL	ANY MIN YY	SUMMARY
KEY	FLAG			ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q	TM 3	QM2	TX 3	TX 4	SORD	RNHC	SPO/C	DIP SML	E I	STRUCTUR-2 T 2	ID	STK AZM	DIP RT	HA KF	HA MU	HA CL A	HA EP A	HE A	HA HA A	PR A	MO A	SL A	HA A	
L								TA	RE2			2	3 7	C								96				/				1 1
N		182.9	183.3		X	BVAB			QF3	BR			M 5 7			N	6 SH			70	87		96			PP	81		1(	CV	4 9
L								TA	RE2			2	3 7	C		3						96				/			1(	1*	6 1
P		183.3	188.1			BVAB			QF3	BR			M 5 7			P	6 SH			70	87		96			PP	81		1(	CV	4 9
L								TA	RE2			2	3 7	C								96				/			1(	1(	6 1
R	TXT	183.3	188.1	V POORLY SORTED LARGELY FRAMEWK SUPPORTED																											
R	MNZ	183.3	188.1	SHORT SECTS W SUPERGENE MINZ																											
R	STR	187.6	187.7	SHR W 4 CM QTZ PY VN. 25% PY AS V FINE DISSM																											
P		188.1	201.2			BVAN										P	3 VA			60	88		Q3			PP	8=	D-	C-		4 9
L								TA								3						94				/		D-	1(		6
R	VEN	188.1	201.2	UP TO 4 CM WIDE. A FEW W CC MOSTLY COAT PY																											
R	ALT	188.1	201.2	BUFF COL PERVADES. HERE V HARD. PROB MOSTLY QTZ W SOME																											
R	ALT	188.1	201.2	PYROPH? SER? ALSO IRREG CREAM PATCHES WHICH HOST MOST OF																											
R	ALT	188.1	201.2	THE DISSM PY (CY-SER?)																											
R	MNZ	188.1	201.2	TR CPY FIRST NOTED																											
N		188.1	188.7		X	BVAN										N	3 VA			60	88		Q3			PP	8=		C-		4 9
L								TA								3						94				/		D-	1)		6
N		188.7	189.3		X	BVAN										N	3 VA			60	88		Q3			PP	8=		C-		4 9
L								8T								9						94						D-	1(		6
R	XRD	195.7	195.7	THIN SECT + X-RAY OF PATCHES = DICKITE																											
N		198.1	198.7		X	BVAN										N	3 VA			60	88		96			PP	D+				4 9
L								8T								3						94				/		D(	D+		6
N		199.7	200.0		X	FAUL										N	3 SH			30	88		98			PP	8=				4 9
L								8T								X						94				/		D-	1(		6
P		201.2	203.0			BVAN			B/							P					78		96				81	D(				4 9
L																3						93						D-	C*		6 1
R	LTH	201.2	203.0	MOTTLED RK POSS EXTR ALT BR																											
R	ALT	201.2	203.0	PATCHES MOSTLY 1-2 CM SOFT CREAM CY> SER? PY CLOTS																											
R	ALT	201.2	203.0	PATCHES STRGRS IN QTZ MTRX (40% QTZ)																											
R	VEN	201.2	203.0	PROB A ZONE OF QTZ-PY VNING - FLOODING																											
P		203.0	208.2			BVAN										P					99		95			PP		D(		CV	7 9
L								5A								1										94		D-	C(	D-	6 1
R	MNZ	203.0	208.2	PY AS PATCHES STRGRS DISSM. WK DISSM CPY, MO, BO, CC																											
R	XRD	203.9	203.9	THIN SECT + X-RAY SHOW PYROPH GEN SURROUNDING DICKITE																											
P		208.2	212.1			BVAN									3	P	2 VP			30	88		94			?	8=	D*			3 9
L								7T							2		3 VA				6	5							1-		4 =
P		212.1	215.4			PPFX			FX3	P/		K	3 K		44	P					88		94			?	8=	D)		CV	3 9
L								7T				5	9		5													D-	C-	C-	5 =

UTAH MINES LTD., VANCOUVER B.C.
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DRILLHOLE/TRAVERSE : DDHEC154 (CONTINUED)

KEY	F L A G	- INTERVAL - (UNITS = FT) FROM	TO	CORE RECOVERY (FT.1)	% MI X	ROCK TYPE	TYPIFYING TM 1	TYPIFYING TM 2	ALTERATION MIN MAT QM1	ALTERATION TEXTURES TX 1	ALTERATION TEXTURES TX 2	GRAIN CHARACS F	GRAIN CHARACS C	FRACTURE % M P	FRACTURE #	FRACTURE TK	STRUCTUR-1 T 1	STRUCTUR-1 ID AZM	STK DIP RT	ALTERATION MINS H A QZ	H A BI	H A CY	H A CB	H A MG	ANY MIN XX	ORE-TYPE MINS H A PY	H A CP	H A GL	ANY MIN YY	SUMMARY
K	F			ROCK	FOR	EN	RT		TM	QM2	TX	TX	S	R	S	O	DIP	F	T	ID	STK	DIP	KF	MU	CL	EP	HE	HA	PR	MO	SL	HA	
E	L			QUAL	MEM	V	Q	LC-	3		3	4	O	N	H	/	SML	I	2		AZM	RT			H	H	H	H	H	H	H	H	
Y	G			DESIG	AGE			COL					R	D	P	C									A	A	A	A	A				
R	LTH	212.1	215.4					UNCERTAIN POSS TUFF BUT FAIRLY EVENLY DISTRIB CY																							
R	LTH	212.1	215.4					PATCHES 2-3 MM WHICH HOST THE SULFS. MTRX IS BUFF																							
R	LTH	212.1	215.4					COL SIL W SER. POSS SOME PYROPH TO GIVE COL																							
R	XRD	212.4	212.4					THIN SECT + X-RAY OF DICKITE																							
P		215.4	226.0					BVAN									22	P	3	VA		86		97		PP	8=	D-	D-		3	9
L								TA									3									?		D.	C*		6	=
R	VEN	215.4	226.0					QTZ VLTS CUT BY PY PY-QTZ VLTS, OFTEN W BO CCT MO																							
R	MNZ	218.7	219.0					PURPLE HUE DUE TO FINE BO + MO. MUCH CCT. PROB >/= 1% CU																							
N		218.7	219.0			X		BVAN										N	3	VA		96		93		PP	8+	D-	D*		3	9
L								P$									3						97			?		1*	C)		6	=
R	STR	220.2	220.8					3 NARROW CY-RICH SHRS IN THIS ZONE																							
N		220.2	220.8			X		BVAN									22	N	5	SH		70	86		95	PP	8=	D-	D-		3	9
L								TA									8									?		D.	C*		6	=
R	MIN	220.5	220.7					SAME AS 218.7-219.1M																							
R	VEN	220.5	220.7					QTZ-PY VLTS. W TR MO 1-2" WIDE HAS 3" SIL-SER SELVAGE W																							
R	VEN	220.5	220.7					V FINE DISSM PY																							
N		220.5	220.7			X		BVAN										N													
L								P$																							
R	MIN	224.6	225.4					CCT + SOME BO PROB RELACED PY +/or CPY																							
N		224.6	225.4			X		BVAN										N		BR		60	/				8)		8*			
L								T									3						98						8+			
R	STR	225.4	225.4					1-5 CM WIDE BR DIKELET 60 DEGREES TO C/A ANG QTZ FRAGS A																							
R	STR	225.4	225.4					FEW RK SOME PY FRAGS. V F.G PY-RICH MTRX																							
P		226.0	239.8					BVAN									4	P	2	VA		50	88		96	PP	8=				7	9
L								TA									3									/		1-			6	=
R	VEN	226.0	239.8					ERRATIC MOST MOD DIP FROM 2-6/M TO ABOUT 30. MOST																							
R	VEN	226.0	239.8					2-3 MM WIDE SOME H/L + UP TO 1-2 IN WIDE. W SIG MO TR CPY																							
R	LTH	226.0	239.8					SMALL WHT CLOTS POSS RELIC POR OR TUFF TXT. STR QTZ																							
R	LTH	226.0	239.8					VNING 2-4 MM CUT BY PY VLT																							
N		227.1	228.0			X		BVAN									4	N	2	VA		50	84		95	PP	8+				7	9
L								TA									9									/		1-	Q*		6	=
N		234.7	239.8			X		BVAN									4	N	2	VA		50	88		96	PP	8=	8*	C*		7	9
L								TA									3									/		D-			5	=
R	XRD	235.6	235.6					X-RAY OF DICKITE																							
P		239.8	250.7					BVAT									3	P					87		97	PP	8+	8(			7	9
L								6T									3									4		D-	C*		6	=
R	LTH	239.8	250.7					THIS UNIT MAY BE SXTR ALT VOLC POSS TUFF																							
R	TXT	239.8	240.5					V VAGUE POR OR TUFF TXT. POR ALONG FRC ZONE?																							
R	MIN	239.8	240.5					A FEW PATCHES - PROB GYPSUM (ZEOL?)																							
N		239.8	240.5			X		BVAT									3	N	5	VA		60	87		95	PP	8+	8(			7	9
L								6T									9									4		D-	C*		6	=

UTAH MINES LTD., VANCOUVER B.C.
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DRILLHOLE/TRAVERSE : DDHEC154 (CONTINUED)

KEY	F L A G	- INTERVAL - (UNITS = FT) FROM	TO	CORE RECOV-ERY (FT.1)	% MI X	ROCK TYPE	TYPIFYING MINERALS TM 1	TM 2	ALTERATION MINERALS QM1	TEXTURES TX 1	TX 2	GRAIN CHARACTERISTICS F	C	%	M	#	TK	TRACTURE T	STRUCTURE-1 ID	STK AZM	DIP RT	ALTERATION MINS H A QZ	H A BI	H A CY	H A CB	H A MG	ANY MIN XX	ORE-TYPE H A PY	H A CP	H A GL	ANY MIN YY	SUMMARY
KEY	F L G			ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q	LC- COL	TM 3	QM2	TX 3	TX 4	S O N R	R H D	S / P	O C	DIP SML	F I	T 2	STRUCTURE-2 ID	STK AZM	DIP RT	KF	MU	CL H A	EP H A	HE H A	HA H A	PR H A	MO H A	SL H A	HA H
R	XRD	240.8	240.8						THIN SECTION + X-RAY. SHOWS KAOLIN + PYROPH																							
R	MNZ	242.0	242.6						IN GENERAL THE CPY MO CCT IS CONC ALONG VLTS. STRGRS																							
R	MNZ	242.0	242.6						+ ENVELOPES. THERE ARE SUBTLE ZONES UP TO 1-2' WIDE W																							
R	MNZ	242.0	242.6						STR QTZ FLOOD W HIGHER SULPH CONC																							
N		242.0	242.6			X	BVAT							3	N							85		95			PP	8+	8(		7	9
L							6T							8													4		D-	C*	6	=
N		247.5	249.0			X	BVAT							3	N							88		97			PP	8=	8*		7	9
L							6T							3									95				4		D-	C*	6	=
R	TXT	249.4	250.5						MOST OF THIS SECT HAS RELIC POR OR TUFF TXT AS DESCRIBED																							
R	TXT	249.4	250.5						ABOVE																							
N		249.4	250.5			X	BVAT							4	N	2	VP		35			87		97			PP	6+	6(		7	9
L							6T							4													4		1.	C*	6	=
P		250.7	253.0				BVAN							4	P							96		97					8)		D*	3	8
L							P$																			P3			-	?	6	)
R	MNZ	250.7	253.0						SECTION CONTAINS ABOUT 30% BLK HEM (SPECUL?) W ORANGE																							
R	MNZ	250.7	253.0						STAINS. ALSO BO MOSTLY COATING CPY PY																							
R	LTH	250.7	253.0						INTERMITTENT BUFF COL SECTS W PY VLTS																							
P		253.0	262.7				BVAN							5	P	4	VA		60			87		97			PP	8=			7	9
L							TA							3		1	VP		60								3		1-	D(	6	=
R	MNZ	253.0	262.7						AT 259.4 ABOUT 5" W BO STRGRS COATS. PY GENERALLY 7-8%																							
R	MNZ	256.5	257.5						CPY ASSOC W QTZ-SULPH VNS. ALSO H/L MO VLTS																							
N		256.5	257.5			X	BVAN							5	N	4	VA		60			87		97			PP	8=	8)		7	9
L							TA							3		1	VP		60								3		1-	D(	6	=
R	STR	258.2	258.6						STR PY ON SHR																							
N		258.2	258.6			X	BVAN							5	N	4	SH		25			87		97			PP	8=			7	9
L							TA							9		1	VP		60								3		1-	D(	6	=
R	XRD	260.2	260.8						X-RAY OF DICKITE + PYROPH																							
N		260.2	260.8			X	QTZV							5	N	0	VP											V+				
L							6A							5																		
N		260.8	262.0			X	BVAN							5	N	4	VA		60			88		97			PP	81			7	9
L							5A							3		1	VP		60		96						3		1-		6	=
N		262.0	262.7			X	BVAN							5	N	4	VA		60			87		97			PP	7+	8)		7	9
L							6T							3		1	VP		60								3		1-	D(	6	=

S U M M A R Y R E M A R K S

13.4-25.6 PROB ALL SAME ORIG UNIT W FRC ZONES ACTING AS CONDUITS FOR HYDROTH STREAMING (MOSTLY SILIC) PERVAS + VNS RESULT IN MILLING?
17.4-23.2 IMPRESSION THROUGHOUT THAT VNING GRADES TO PERVASIVE SILIC
34.1-37. THE .2 SECT AS THOSE DESCRIBED ABOVE BUT HERE LAM

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DRILLHOLE/TRAVERSE : DDHEC154 (CONTINUED)

S U M M A R Y R E M A R K S

FEATURE ALSO SEEN IN SOME OUTCROPS LAM TUFF INCLUSION? OR SECT OF ORIG TUFF PERVADED BY SILICA + VEINS - THEN SHATTERED

55.2-73.6 IMPRESSION THAT ABOVE BVAB, BVAN MIBR MAY BE SAME AS THIS UNIT WHERE SOFT ALT PRODUCT (PHENOS?) LEACH LEAVING FAIRLY EVEN SPACED VUGS. ESSENTIALLY ONLY SILICA REMAINS. THEN LIM COATING

62.9-79.9M POSS THESE QTZ ZONES RESULT OF SIL PERVADING FAULTS?

152.6-154.1M NOW BECOMING APPARENT THAT SOME OF FINER GR BR NEAR TOP OF HOLE ARE PROB CATACLASTIC

220.5-220.7 CU MINS V PATCHY. PURPLISH PATCHES 1-8" CONTAIN SIG BO MO CCT. ELSEWHERE ONLY TR BO MO. ALSO 2"-2' ZONES W STR BLK SPECKLES OF MAINLY CCT. AT 215.5 + 222.8 SHORT SECTS OF A FEW IN W WHT CY. CLOTS W PY WHICH ARE POSS PORPH DIKELETS OR RELIC TUFF TXTS

239.8-250.7 BELOW ABOUT 225.9M FREQUENT SHORT SECTS WHERE THERE IS HINT OF GRANULARITY. LIGHT BEIGE BACKGROUND W WHT CLOTS RELIC INTRUS TXT?

ADO1 A N A L Y T I C A L D A T A

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	RQD % W-CORE FIELD HAND	Cu % H-CORE ICM XRF	Mo % H-CORE ICM XRF	Fe % H-CORE ICM XRF	Au ppm H-CORE ICM FA	Ag ppm H-CORE ICM FA	As ppm H-CORE ACME ICP	Sb ppm H-CORE ACME ICP	Te ppm H-CORE ACME AA
A 01	.0	4.7											
A 01	4.7	6.1	100	1151	65	.04	.012	1.40	.13	.18	43	2	0.5
A 01	6.1	7.6	100	1152	65	.05	.012	5.20	.12	.16	225	3	0.6
A 01	7.6	9.1	9389	1153	89	.04	.012	3.30	.28	.10			
A 01	9.1	10.7	90		90								
A 01	10.7	12.2	92	1154	90	.04	.009	3.00	.29	.21	535	6	7.2
A 01	12.2	13.7	94		90								
A 01	13.7	15.2	97	155	88	.03	.009	1.70	.10	.10			
A 01	15.2	16.8	98		88								
A 01	16.8	18.3	99	1156	81	.04	.027	3.00	.19	.16	554	15	15.6
A 01	18.3	19.8	99		89								
A 01	19.8	21.3	97	1157	82	.04	.026	2.50	.12	.16			
A 01	21.3	22.9	96	1158	80	.04	.072	4.20	.09	.23	1079	36	7.8
A 01	22.9	24.4	99		88								
A 01	24.4	25.9	100	1159	90	.04	.033	2.80	.13	.13			
A 01	25.9	27.4	96	1160	68	.05	.076	5.60	.24	.22	2475	68	1.2
A 01	27.4	28.9	97		62								
A 01	28.9	30.5	99	1161	86	.04	.015	2.20	.06	.15			
A 01	30.5	32.0	99	1162	92	.06	.015	6.80	.86	.23	303	2	3.8
A 01	32.0	33.5	100		97								
A 01	33.5	35.0	100	1163	98	.06	.021	5.00	.43	.15	138	4	3.6
A 01	35.0	36.9	100	1164	97	.06	.037	5.30	.53	.15			
A 01	36.9	38.4	100	1165	97	.04	.046	1.10	.15	.09	9	2	1.2

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DRILLHOLE/TRAVERSE : DDHEC154 (CONTINUED)

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	ADO1 A N A L Y T I C A L D A T A RQD % W-CORE FIELD HAND	Cu % H-CORE ICM XRF	Mo % H-CORE ICM XRF	Fe % H-CORE ICM XRF	Au ppm H-CORE ICM FA	Ag ppm H-CORE ICM FA	As ppm H-CORE ACME ICP	Sb ppm H-CORE ACME ICP	Te ppm H-CORE ACME AA
A 01	38.4	39.9	100	1166	97	.01	.001	0.50	.07	.15	10	2	0.5
A 01	39.9	42.7	100	1167	97	.02	.001	0.20	.08	.16			
A 01	42.7	45.7	100	1168	94	.01	.001	0.10	.10	.24	2	2	0.9
A 01	45.7	48.8	100	1169	93	.01	.001	0.10	.08	.06	4	2	0.3
A 01	48.8	51.5	99	1170	87	.01	.001	0.10	.08	.01			
A 01	51.5	53.3	98	1171	71	.02	.001	2.20	.10	.01	68	2	2.2
A 01	53.3	55.2	98	1172	87	.06	.043	5.60	.19	.01			
A 01	55.2	57.9	98	1173	94	.03	.017	0.68	.06	.01	31	2	1.3
A 01	57.9	61.0	99	1174	94	.03	.027	0.79	.05	.01			
A 01	61.0	64.0	97	1175	83	.03	.021	1.90	.10	.04	92	2	1.8
A 01	64.0	66.4	99	1176	83	.03	.017	1.00	.05	.01			
A 01	66.4	68.9	96	1127	93	.04	.019	3.20	.09	.01	50	2	0.9
A 01	68.9	71.6	99	1178	86	.04	.015	1.10	.06	.01			
A 01	71.6	73.2	99		89								
A 01	73.2	76.2	99	1179	92	.06	.012	1.50	.05	.01	15	2	0.4
A 01	76.2	79.2	99	1180	90	.04	.018	1.30	.04	.01	16	2	0.4
A 01	79.2	80.8	100	1181	86	.03	.010	1.20	.06	.01			
A 01	80.8	82.3	98	1182	90	.03	.008	1.50	.04	.01	24	2	0.6
A 01	82.3	83.8	97	1183	93	.04	.012	2.60	.04	.01			
A 01	83.8	85.3	90	1184	74	.04	.015	4.70	.06	.01	111	2	1.3
A 01	85.3	87.5	90	1185	64	.03	.017	2.40	.07	.01			
A 01	87.5	89.9	100	1186	73	.04	.021	3.20	.08	.01	56	2	3.2
A 01	89.9	91.4	100		77								
A 01	91.4	94.5	100	1187	85	.01	.002	0.30	.08	.10			
A 01	94.5	97.5	100	1188	84	.01	.002	0.10	.07	.04	27	2	0.8
A 01	97.5	100.6	98	1189	62	.01	.003	1.00	.05	.01			
A 01	100.6	103.6	97	1190	46	.02	.002	4.90	.51	.05	41	2	0.9
A 01	103.6	106.7	78	1191	23	.10	.013	2.60	.17	.01			
A 01	106.7	109.7	53	1192	6	.07	.001	4.70	.29	.01	273	2	7.7
A 01	109.7	111.3	48		6								
A 01	111.3	112.8	80	1193	30	.02	.002	4.30	.13	.01			
A 01	112.8	114.6	96	1194	47	.02	.004	2.60	.08	.01	40	2	3.6
A 01	114.6	117.6	99	1195	78	.01	.003	2.00	.15	.01			
A 01	117.6	120.7	99	1196	73	.01	.003	0.90	.22	.01	26	2	1.2
A 01	120.7	123.7	100	1197	92	.01	.003	0.10	.15	.01			
A 01	123.7	126.8	100	1198	97	.01	.003	0.10	.08	.01			
A 01	126.8	128.0	94		72								
A 01	128.0	129.5	93	1199	68	.04	.013	2.60	.14	.01			
A 01	129.5	131.1	97	1200	82								
A 01	131.1	134.1	100	1201	90	.04	.016	2.50	.21	.01	4	2	0.8
A 01	134.1	135.6	99	1202	85	.04	.012	1.90	.13	.01			
A 01	135.6	137.2	98		63								
A 01	137.2	139.6	97	1203	53	.04	.013	2.90	.14	.01			
A 01	139.6	141.4	98	1204	87	.04	.012	2.60	.15	.01	69	2	0.5
A 01	141.4	143.3	98	1205	87	.03	.014	0.52	.20	.01			
A 01	143.3	146.0	91	1206	73	.03	.024	2.10	.22	.01	162	2	2.9
A 01	146.0	149.3	78	1207	45	.01	.001	0.80	.24	.01			

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DRILLHOLE/TRAVERSE : DDHEC154 (CONTINUED)

AD01 A N A L Y T I C A L D A T A

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	RQD % W-CORE FIELD HAND	Cu % H-CORE ICM XRE	Mo % H-CORE ICM XRE	Fe % H-CORE ICM XRE	Au ppm H-CORE ICM FA	Ag ppm H-CORE ICM FA	As ppm H-CORE ACME ICP	Sb ppm H-CORE ACME ICP	Te ppm H-CORE ACME AA
A 01	149.3	152.4	99	1208	90	.01	.002	0.40	.31	.08	59	2	1.1
A 01	152.4	155.4	100	1209	85	.01	.002	0.30	.13	.01			
A 01	155.4	158.5	100	1210	74	.01	.003	0.10	.21	.01	20	2	0.1
A 01	158.5	161.5	100	1211	73	.02	.003	0.30	.15	.07			
A 01	161.5	164.9	81	1212	53	.03	.003	1.50	.26	.01	148	2	8.2
A 01	164.9	168.8	40	1213	10	.40	.003	7.00	.48	.12			
A 01	168.8	170.7	76	1214	28	.43	.009	7.90	.63	.06			
A 01	170.7	173.7	68	1215	38	.31	.016	5.50	.35	.14			
A 01	173.7	176.8	60	1216	25	.28	.012	8.60	.51	.24	181	2	1.1
A 01	176.8	179.8	95	1217	70	.20	.021	5.70	.36	.11			
A 01	179.8	182.9	95	1218	76	.21	.011	8.30	.33	.12			
A 01	182.9	185.9	97	1219	74	.15	.013	6.60	.38	.06			
A 01	185.9	189.0	95	1220	60	.21	.010	4.80	.18	.04	86	2	1.2
A 01	189.0	192.0	96	1221	59	.12	.014	7.10	.32	.18			
A 01	192.0	195.1	96	1222	79	.43	.020	4.40	.28	.13	2	2	0.6
A 01	195.1	198.1	100	1223	79	.24	.019	6.40	.28	.17	12	2	1.7
A 01	198.1	201.2	99	1224	50	.23	.017	7.30	.37	.13			
A 01	201.2	204.2	99	1225	73	.42	.024	7.20	.32	.05	2	2	0.5
A 01	204.2	207.3	100	1226	91	.28	.017	8.70	.33	.08	2	2	0.4
A 01	207.3	210.3	98	1227	71	.28	.020	7.00	.38	.16			
A 01	210.3	213.4	96	1228	56	.27	.020	4.50	.30	.07	2	2	1.0
A 01	213.4	216.4	99	1229	47	.49	.014	5.70	.31	13	2	2	0.6
A 01	216.4	219.4	96	1230	63	.29	.015	6.30	.34	.22			
A 01	219.4	222.5	97	1231	70	.21	.016	5.40	.24	.36	2	2	0.4
A 01	222.5	225.5	100	1232	65	.25	.013	5.70	.24	.35			
A 01	225.5	228.6	97	1233	73	.34	.020	4.10	.23	.11	2	2	0.5
A 01	228.6	231.6	93	1234	70	.09	.016	5.70	.12	.08			
A 01	231.6	234.7	97	1235	94	.28	.013	6.20	.26	.11	2	2	1.8
A 01	234.7	237.7	97	1236	85	.21	.014	5.70	.13	.09			
A 01	237.7	240.8	95	1237	74	.14	.016	4.60	.14	.04	2	2	1.1
A 01	240.8	243.8	88	1238	57	.24	.010	5.10	.11	.03			
A 01	243.8	246.9	95	1239	72	.12	.016	6.40	.25	.05	2	2	0.9
A 01	246.9	249.9	99	1240	69	.26	.007	3.80	.22	.09			
A 01	249.9	253.0	98	1241	80	.19	.017	4.40	.21	.04	2	2	1.2
A 01	253.0	256.0	99	1242	63	.48	.016	6.30	.39	.10			
A 01	256.0	259.1	96	1243	78	.15	.013	5.80	.13	.04	2	2	0.8
A 01	259.1	260.3											
A 01	260.3	260.9		1244		.06	.011	5.60	.07	.06			
A 01	260.9	262.7	93	1245	76	.09	.009	6.50	.08	.08	2	2	1.2

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC154 (CONTINUED)

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	AD02 A N A L Y T I C A L D A T A Pb ppm H-CORE ACME ICP	Zn ppm H-CORE ACME ICP	Co ppm H-CORE ACME ICP	Bi ppm H-CORE ACME ICP	Ba ppm H-CORE ACME ICP
A 02	.0	4.7							
A 02	4.7	6.1		1151	5	5	4	2	
A 02	6.1	7.6		1152	12	7	4	4	2
A 02	7.6	10.7							
A 02	10.7	12.2		1154	23	7	2	2	2
A 02	12.2	16.8							
A 02	16.8	18.3		1156	30 4	2	3	1	
A 02	18.3	21.3							
A 02	21.3	22.9		1158	56	5	2	2	2
A 02	22.9	25.9							
A 02	25.9	27.4		1160	295	6	3	4	11
A 02	27.4	30.5							
A 02	30.5	32.0		1162	16	7	3	8	1
A 02	32.0	33.5							
A 02	33.5	35.0		1163	12	6	1	3	
A 02	35.0	36.9							
A 02	36.9	38.4		1165	7	5	1	2	
A 02	38.4	39.9		1166	10	3	1	2	2
A 02	39.9	42.7							
A 02	42.7	45.7		1168	6	3	1	2	
A 02	45.7	48.8		1169	8	4	1	2	2
A 02	48.8	51.5							
A 02	51.5	53.3		1171	23	3	1	2	1
A 02	53.3	55.2							
A 02	55.2	57.9		1173	5	2	1	3	1
A 02	57.9	61.0							
A 02	61.0	64.0		1175	16	3	2	2	2
A 02	64.0	66.4							
A 02	66.4	68.9		1177	12	4	2	3	1
A 02	68.9	73.2							
A 02	73.2	76.2		1179	10	2	1	2	
A 02	76.2	79.2		1180	11	3	1	2	1
A 02	79.2	80.8							
A 02	80.8	82.3		1182	4	3	1	2	2
A 02	82.3	83.8		1184	10	4	2	3	1
A 02	83.8	87.5							
A 02	87.5	89.9		1186	12	3	2	2	2
A 02	89.9	94.5							
A 02	94.5	97.5		1188	8	10	1	2	2
A 02	97.5	100.6							
A 02	100.6	103.6		1190	19	5	4	2	1
A 02	103.6	106.7							
A 02	106.7	109.7		1192	57	32	14	6	5
A 02	109.7	112.8							
A 02	112.8	114.6		1194	4	6	2	2	1
A 02	114.6	117.6							
A 02	117.6	120.7		1196	10	3	1	2	2

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC154 (CONTINUED)

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	AD02 A N A L Y T I C A L D A T A Pb ppm H-CORE ACME ICP	Zn ppm H-CORE ACME ICP	Co ppm H-CORE ACME ICP	Bi ppm H-CORE ACME ICP	Ba ppm H-CORE ACME ICP
A 02	120.7	123.7							
A 02	123.7	126.8		1198	7	2	1	2	1
A 02	126.8	129.5							
A 02	129.5	131.1		1200	10	5	2	3	1
A 02	131.1	134.1							
A 02	134.1	135.6		1202	12	4	1	2	2
A 02	135.6	139.6							
A 02	139.6	141.4		1204	11	3	1	2	1
A 02	141.4	143.3							
A 02	143.3	146.0		1206	18	2	2	2	1
A 02	146.0	149.3							
A 02	149.3	152.4		1208	14	3	1	2	1
A 02	152.4	155.4							
A 02	155.4	158.5		1210	8	5	2	2	2
A 02	158.5	161.5							
A 02	161.5	164.9		1212	20	3	2	2	1
A 02	164.9	173.7							
A 02	173.7	176.8		1216	42	34	32	4	7
A 02	176.8	185.9							
A 02	185.9	189.0		1220	13	11	25	2	2
A 02	189.0	192.0							
A 02	192.0	195.1		1222	12	7	30	5	7
A 02	195.1	198.1		1223	17	13	19	2	
A 02	198.1	201.2							
A 02	201.2	204.2		1225	24	15	1	2	
A 02	204.2	207.3		1226	22	23	45	2	5
A 02	207.3	210.3							
A 02	210.3	213.4		1228	9	8	3	4	
A 02	213.4	216.4		1229	37	16	28	2	11
A 02	216.4	219.4							
A 02	219.4	222.5		1231	13	23	23	2	5
A 02	222.5	225.5							
A 02	225.5	228.6		1233	19	30	24	3	9
A 02	228.6	231.6							
A 02	231.6	234.7		1235	11	11	35	2	5
A 02	234.7	237.7							
A 02	237.7	240.8		1237	6	14	25	2	1
A 02	240.8	243.8							
A 02	243.8	246.9		1239	15	13	27	2	2
A 02	246.9	249.9							
A 02	249.9	253.0		1241	12	5	12	2	5
A 02	253.0	256.0							
A 02	256.0	259.1		1243	15	15	28	2	1
A 02	259.1	262.7		1245	13	13	20	2	

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC154 (CONTINUED)

A UMM / A LAB / A MTH	FROM	TO	RECOV	SAMPLE	AD03 ANALYTICAL DATA SiO2 % H-CORE ACME WRA	Al2O3 % H-CORE ACME WRA	Fe2O3 % H-CORE ACME WRA	MgO % H-CORE ACME WRA	CaO % H-CORE ACME WRA	Na2O % H-CORE ACME WRA	K2O % H-CORE ACME WRA	TiO2 % H-CORE ACME WRA	P2O5 % H-CORE ACME WRA
A 03	.0	4.7		1151	67.20	20.24	2.94	0.04	0.11	0.01	0.13	0.64	0.07
A 03	4.7	33.5											
A 03	33.5	35.0		1163	87.76	1.81	6.30	0.08	0.29	0.01	0.20	0.82	0.29
A 03	35.0	36.9											
A 03	36.9	38.4		1165	76.22	14.81	1.95	0.07	0.17	0.06	0.29	0.52	0.13
A 03	38.4	42.7											
A 03	42.7	45.7		1168	58.84	27.84	2.16	0.05	0.08	0.01	0.29	0.34	0.08
A 03	45.7	73.2											
A 03	73.2	76.2		1179	71.22	18.54	2.60	0.05	0.11	0.01	0.33	0.52	0.13
A 03	76.2	195.1											
A 03	195.1	198.1		1223	52.35	15.77	14.92	0.07	0.13	0.01	1.02	0.67	0.01
A 03	198.1	201.2											
A 03	201.2	204.2		1225	56.23	12.69	16.88	0.09	0.15	0.28	0.01	0.55	0.01
A 03	204.2	210.3											
A 03	210.3	213.4		1228	57.86	15.58	13.95	0.08	0.09	0.09	0.02	0.50	0.01
A 03	213.4	259.1											
A 03	259.1	262.7		1245	54.26	16.47	14.84	0.07	0.21	0.07	0.39	0.81	0.11

A UMM / A TYP / A LAB / A MTH	FROM	TO	RECOV	SAMPLE	AD04 ANALYTICAL DATA MnO % H-CORE ACME WRA	Cr2O3 % H-CORE ACME WRA	Ba % H-CORE ACME WRA	Zr % H-CORE ACME WRA
A 04	.0	4.7						
A 04	4.7	6.1		1151		0.01	0.01	64	74
A 04	6.1	33.5							
A 04	33.5	35.0		1163		0.01	0.02	80	101
A 04	35.0	36.9							
A 04	36.9	38.4		1165		0.01	0.01	73	47
A 04	38.4	42.7							
A 04	42.7	45.7		1168		0.01	0.01	63	106
A 04	45.7	73.2							
A 04	73.2	76.2		1179		0.01	0.01	72	133
A 04	76.2	195.1							
A 04	195.1	198.1		1223		0.01	0.01	573	83
A 04	198.1	201.2							
A 04	201.2	204.2		1225		0.01	0.01	183	65
A 04	204.2	210.3							
A 04	210.3	213.4		1228		0.01	0.02	339	89
A 04	213.4	259.1							
A 04	259.1	262.7		1245		0.01	0.01	242	92

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE :DDHEC155

PROJECT IDEN : EXPO	START DATE : 85/ 5/26	COMPLETION DATE : 85/ 5/26	GEOLOGGED BY : JBR +
COLLAR NORTHING: 244100.00	COLLAR EASTING : 233000.00	COLLAR ELEVATION: 22320.00	GRID AZIMUTH :
TOTAL LENGTH : 156.05	CORE/HOLE SIZE : NQ	MACHINE TYPE :	CONTRACTOR : LONGYR

SURVEY FLAG	SURVEY POINT LOCATION	FORESIGHT	AZIMUTH (DEGREES)	VERTICAL ANGLE (DEGREES)	NORTHING	EASTING
000	.0		180.00	-60.00		

KEY	FLAG	- INTERVAL - (UNITS = FT) FROM	TO	CORE RECOVERY (FT.1)	% MIX	ROCK TYPE	TYPIFYING TM 1	TYPIFYING TM 2	QAL MIN MAT QM1	TEXTURES TX 1	TEXTURES TX 2	GRAIN CHARACS F	GRAIN CHARACS C	FRACTURE %	FRACTURE M	#	TK	STRUCTUR-1 T	ID	STK AZM	DIP RT	ALTERATION H A QZ	H A BI	H A CY	H A CB	H A MG	MINS A XX	ORE-TYPE H A PY	H A CP	H A GL	MINS A YY	SUMMARY
KEY	FLAG			ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q	LC-COL	TM 3	QM2	TX 3	TX 4	S O R D	R N P	S H C	O /	DIP SML	F I	T 2	ID	STK AZM	DIP RT	KF	MU	CL H A	EP H A	HE H A	HA H A	PR H A	MO H A	SL H A	HA H A	
																		STRUCTUR-2														
P		.0	.6					STKP									P															
P		.6	2.9					OVER									P															
P L		2.9	14.2					BVAB	VF	VG2	FR	VG	H 1	N 1	5	Q 0	2	P	ER	45	P9	Q3									9 X
K	TOX	2.9	2.9	LIMONITE STAIN IS VARIABLE																												
R	LTH	2.9	14.2	LESS VUGGY SECTIONS ARE LARGER BX FRAGS																												
R	ALT	2.9	14.2	SILICIFICATION OBSCURES GRAIN + FRAG EDGES																												
R	CMP	12.2	12.2	ONLY QTZ + WK OPAQUES (THIN SECT)																												
P L		14.2	19.2					BVAB	VF TA	VG1	FR	VG	F 1	N 1	3	Q 0	2	P	FR BD	45 90	P7	Q3									9 7
R	LTH	14.2	37.6	VF TEND TO BE RHYOLYTIC LOOKING WITHH OCC FG BEDDED FRAG																												
P L		19.2	23.2					BVAB	VF TA	VG=			H 1	O 1	6	P 0	1	P			P7										9 7
P L		23.2	24.1					BVAB	VF TA	VG=			H 1	O 1	6	P 0	4	P			P7										9 7
P L		24.1	37.6					BVAL	VF GU	VG1			H 1	O 1	6	P 0	1	P			P7										9 7
R	ALT	35.0	35.0	A FEW CONC OF FLAKY MIN. HYDROMICA? CLAY? (THIN SECT)																												
P L		37.6	45.3					BVAB	VF TA	VG+	FR	VG	H 1	M 1	6	Q 1	2	P	3 SW		8X										9 X
R	STR	37.6	75.0	.5-1 CM QTZ STWK. LARGELY DISRUPTED INTO SHARDS																												
R	ALT	39.3	39.3	THIN SECTION SHOWS TOPAZ? + TRACE CY																												
P L		45.3	50.0					BVAB	VF TA	VG1	FR	VG	H 1	M 1	6	Q 1	2	P	3 SW		8X										9 9
P		50.0	51.2					BVAB	VF	VG0	FR	VG	H	M	6	Q	2	P	2 FR	20	8X						D.				9 9

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC155 (CONTINUED)

KEY	FLAG	FROM (UNITS = FT)	TO	CORE RECOVERY (FT.1)	%MIX	ROCK TYPE	TYPIFYING MINERALS 1	TYPIFYING MINERALS 2	QUALIFYING MATERIAL QM1	QUALIFYING MATERIAL QM2	TEXTURES TX 1	TEXTURES TX 2	GRAIN CHARACS F	GRAIN CHARACS C	GRAIN CHARACS %	GRAIN CHARACS M	FRACTURE #	FRACTURE TK	STRUCTUR-1 T	STRUCTUR-1 ID	STRUCTUR-1 STK AZM	STRUCTUR-1 DIP RT	ALTERATION HA QZ	ALTERATION HA BI	ALTERATION HA CY	ALTERATION HA CB	ALTERATION HA MG	MINS ANY XX	ORE-TYPE HA PY	ORE-TYPE HA CP	ORE-TYPE HA GL	MINS ANY YY	SUMMARY
K	F			ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q	LC- 3 COL	TM QM2	TX 3	TX 4	S O N R	R D	S H P	O / C	DIP SML	F I	T 1	ID	STK AZM	DIP RT	KF	MU	CL H	EP H	HE H	HA H	PR	MO H	SL H	HA H		
E	L																	T 2						A	A	A	A						
Y	G																							STRUCTUR-2									
L							TA					1	1	1	0		3																
K	TOX	50.0	50.0		TRACE PY																												
P		51.2	53.9			BVAB	VF		FR	SW	H	N	6	P		1	P		F/		45	P9									9	X
L							TA		VG		1	1	3	0		3			SW													
R	STR	53.0	53.2		FAULT ZONE LIM STAINED SIL RUBBLE																														
P		53.9	55.8			BVAB	VF	QZ	VG=	FR	SW	H	N	6	P		1	P		F/		10	P9		64							3	3	9	9
L							TA		VG		1	1	3	0		4			SW													
R	CMP	54.9	54.9		THIN SECT. ALL QTZ WITH LIM																														
P		55.8	58.1			BVAB	VF	QZ	VG1	FR	SW	H	N	6	P		1	P		F/		45	P9									9	X
L							5A		VG		1	1	3	0		3		3	SW													
P		58.1	63.2			BVAB	VF	QZ	VG=	FR	SW	H	N	6	P		1	P	3	SW		45	P9									9	X
L							TA		VG		1	1	3	0		3			SW													
P		63.2	68.0			BVAB	VF	QZ	VG2	FR	SW	H	N	6	P		4	P	3	SW		45	P9		Q2							3	3	9	X
L							TA		VG		1	1	3	0		3			SW													
R	ALT	63.2	68.0		OCCASIONAL VUG FILLED WITH SER																														
P		68.0	73.6			BVAB	VF	QZ	VG1	FR	SW	H	N	6	P		1	P	3	SW		45	P9									3	3	9	8
L							TA		VG		1	1	3	0		3			SW													
P		73.6	75.0			BVAB	VF	QZ	VG1	FR	SW	H	N	6	P		4	P	3	SW		45	P9		Q7								3	7
L							TA		VG		1	1	3	0		3			SW													
P		75.0	78.9			BVAB	VF			FR	SW	H	N	4	0		6	P	3	SW			V7		Q7			PP					7	7
L							7A								0		1											Q6					
R	LTH	75.0	87.8		ROCK HAS A PATCHY MOTTLED LOOK. ORIGINAL TX VARIABLY																														
R	LTH	75.0	87.8		DESTROYED BUT PROBABLY THE SAME ORIGINAL PYROCLASTIC BRECCIA																														
R	LTH	75.0	87.8		TUFF - LAPPILLI TUFF AS FROM TOP TO 246. SIMILAR DISRUPTED																														
R	LTH	75.0	87.8		QTZ STKWK																														
R	XRD	78.0	78.0		THIN SECT. BVFF PATCHES PYROPH? DIASP + KAOLIN																														
P		78.9	85.8			BVAB	VF			FR	SW	H	N	4	0		6	P	3	SW			V7		Q5			PP				9	3	7	5
L							TA								0		2											Q3						
P		85.8	87.8			BVAB	VF			FR	SW	H	N	4	0		6	P	3	SW			V7		Q7			PP	D+		CV	9	3	7	7
L							7A								0		1											Q4	D.		D?			5	+
K	TOX	85.8	85.8																																
P		87.8	91.7			BVAB	VF	QZ	VG2	FR	SW						9	P	5	SW			89		Q3						CV	3	3	9	9
L							TA		VG								1												D?		O?				

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC155 (CONTINUED)

KEY	FLAG	FROM (UNITS = FT)	TO	CORE RECOVERY (FT.1)	% MINX	ROCK TYPE	TYPIFYING TM 1	TYPIFYING TM 2	QAL MIN MAT QM1	QM2	TEXTURES TX 1	TEXTURES TX 2	GRAIN CHARACS F	C	%	M	FRACTURE #	TK	STRUCTUR-1 T	ID STK AZM	DIP RT	ALTERATION MINS H A QZ	H A BI	H A CY	H A CB	H A MG	H ANY MIN XX	ORE-TYPE MINS H A PY	H A CP	H A GL	H ANY MIN YY	SUMMARY
K	F			ROCK	FOR	EN	RT		TM				S	R	S	O	DIP	F	T			KF	MU	CL	EP	HE	HA	PR	MO	SL	HA	
E	L			QUAL	MEM	V	Q	LC-	3				O	N	H	/	SML	I	2					H	H	H	H	H	H	H	H	
Y	G			DESIG	AGE			COL					R	D	P	C								A	A	A	A	A	A	A	A	
																				STRUCTUR-2											
P		91.7	97.5			BVAB	VF	QZ	VG2		FR	SW						9	P	5	SW	89	Q7							CV	3 7 9 7
L							TA				VG							1										D?		O?	
R	LTH	91.7	97.5			IRREG DYKELETS + BLOBS OF BUFF TO WHITE PORCELANOUS MATERIAL																											
R	LTH	91.7	97.5			PROBABLY ALT'D LATITE. POSS F.G TUFF																											
N		91.7	97.5		1	DA/D							B	B					N				D9			PP					7 9
L							9W																				P5					
R	XRD	92.6	92.6			THIN SECT. PATCHES + VLTS OF KAOLIN																											
P		97.5	100.6			BVAB	VF	QZ			FR		H	N		P			P	3	SW	89	Q7				PP	8+		8-		7 9
L							5A				SW							1									Q3		8-			3 +
N		98.8	98.9		X	FAUL													N	6	E/	45	P9								
L							TW											9														
N		100.4	100.6		X	FAUL													N			89	P9								
L							TW																									
P		100.6	102.7			DA/D							B	B					P		C/	30	D9								
L							TW											1			F/	45									
R	LTH	100.6	102.7			2 DYKES, 2' + 5' OR 1 7' WITH BV ZENO. 1" FRESH BLACK W IRREG																											
R	LTH	100.6	102.7			CT @ 102.7																											
P		102.7	105.3			BVAB	VF	QZ			FR	SW	H	N	6	O			P	3	BD	60	88	Q7			81				9 5	3 7
L							3A													3	SW										1 1
R	LTH	102.7	105.3			FRAGS CONTAIN QTZ VEIN STKWK. SIMILAR TO STKWK																											
P		105.3	109.4			BVAN			VG1		SW	VG						X	P	1	SW	88	Q9								
L							5A											1			FR	30										
N		105.3	109.4		1	DA/D													N													
L							9W																D9									
P		109.4	111.4			BVAB	VF						K	N	5	P			P				P3	P5		PP	K1				7 5
L							3A						1	7	7	0		1								Q5					1 1
P		111.4	112.6			BVAB	VF		VG1				K	N	5	P			P				P8	P5							3 5
L							5U						1	7	7	0		1								Q5					0 1
P		112.6	112.9			FAUL													P	7	E/	30	P8								
L																		9													
P		112.9	119.5			BVAB						SW						9	P	3	SW	K8	P8			D1					3 8
L							TA											2			E/	30									1 1
R	LTH	112.9	127.7			ORIGINAL TX ALMOST TOTALLY DESTROYED. V OCC FRAG OUTLINE																											
R	LTH	112.9	127.7			VISIBLE																											
N		115.8	117.6		X	FAUL													N				PX									

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC155 (CONTINUED)

KEY	FLAG	- INTERVAL - (UNITS = FT) FROM	TO	CORE RECOVERY (FT.1)	% MIX	ROCK TYPE	TYPIFYING TM 1	TM 2	QAL MIN MAT QM1	TEXTURES TX 1	TX 2	GRAIN CHARACS F	C	% C	M P	FRACTURE #	TK	STRUCTUR-1 T 1	ID	STK AZM	DIP RT	ALTERATION H A QZ	H A BI	H A CY	H A CB	H A MG	MINS ANY H A XX	ORE-TYPE H A PY	H A CP	H A GL	MINS ANY H A YY	SUMMARY
KEY	FLG			ROCK QUAL DESIG	FOR MEM AGE	EN V	RT Q	TM LC- 3 COL	QM2	TX 3	TX 4	S O R	R D	S H P	O / C	DIP SML	F I	T 2	ID	STK AZM	DIP RT	KF	MU	CL H STRUCTUR-2 A	EP H A	HE H A	HA A A	PR H A	MO H A	SL H A	HA H A	
L																	X														
P L		119.5	123.7		BVAB 3A				SW							5 P 2		3	SW E/		30	V5		Q7			PP Q7	D=	D-	?		7 7 5 =
R	LTH	119.5	123.7	DYKE CONTAINS FRAGS OF QTZ VEINS. CUTS OFF QTZ STKWK																											
N L		119.5	123.7	1 DA/D	QZ EX 5A QZ				PP			B	F	2	G	N			C/		0										
P L		123.7	127.7		BVAB TA				SW							5 P 1		3	SW E/		30	84		Q7			PP Q5	D+	D-			4 7 5 +
R	XRD	127.4	127.4	X-RAY OF DICKITE																											
P L		127.7	129.7		BVAB TA	VF			SW			H	O	5	P	9 P 1		3	SW E/		30	P9		P8			D.					9 9 1 -
R	LTH	127.7	133.2	TX VERY WELL PRESERVED								1	7	7	0																
P L		129.7	133.2		BVAB TA	VF	QZ	VG+	SW							2 P 2		3	SW E/		30	P9		Q5			DO					9 9
N L		132.9	133.2	X FAUL												N 7			E/		5	P7		P9								0 0
P L		133.2	156.1		BVAB				FR	SW		H	N	5	O	5 P 2		2	SW			87 Q3		Q8 D-			PP 81		D)			7 7 5 1
R	LTH	133.2	156.1	TX LARGELY DESTROYED								1	7	7	0																
R	XRD	135.6	135.6	X-RAY OF DICKITE																											
R	XRD	137.2	137.2	X-RAY OF KAOLIN + PYROPH																											
N L		147.8	149.5	X FAUL												N 9												D2			
R	XRD	154.5	154.5	X-RAY PF DICKITE + PYROPH																											
R	XRD	155.4	155.4	X-RAY OF KAOLIN + PYROPH																											

S U M M A R Y R E M A R K S

0-2.9M OVERBURDEN.

2.9-75.M SILICEOUS BRECCIA PROBABLY BRECCIA AND LAPPILI TUFF THAT HAS BEEN FLOODED WITH SILICA IN SUB TO ARIAL ENVIRONMENT. ELONGATE SHARDS OF QTZ FROM BX STKWK AND POSS BROKEN UP SINTER. UP TO 20% VOIDS, .1 TO 6 MM, AFTER FELDSPARS AND/OR ROCK FRAGS. SOME ROCK FRAGS HAVE SAME 'BUG-HOLE' VOIDS AS WHOLE ROCK. ONE HAS DISTINCT IMPRESSION OF FABRIC BEING DUE TO ENVIRONMENT OF FORMATION RATHER THAN ALTERATION. NO SULFIDES. LIMONITE ON FRAC AND STAINING POROUS ROCK. SOME FRAC COATED WITH THICK CRUSTS

UTAH MINES LTD., VANCOUVER B.C.
MCINTOSH PEMBERTON AU-AG

DRILLHOLE/TRAVERSE : DDHEC155 (CONTINUED)

S U M M A R Y R E M A R K S

75-87.8M BONANZA BRECCIA AND LAP TUFF. ORIGINAL TX BETTER PRESERVED. ROCK HAS MOTTLED LOOK DUE TO PATCHES OF SERICITE AND PYROPH. TRACE TP 3% DISS PY

87.8-91.7M SILICEOUS BRECCIA AS ABOVE BUT MORE SERICITE AFTER ROCK FRAGS AND TRACE TO 3% PY. PLUS TRACE MO AND SECONDARY CU

91.7-97.5 SILICEOUS BRECCIA AS 288-301' BUT ABOUT 10% OF ROCK IS IRREGULAR DYKELETS OF A FINE WHITE TO BUFF COLOURED MATERIAL THAT LOOKS LIKE A FINE GRAINED QFP. MOST OF GROUND MASS HAS BEEN ALTERED TO QTZ-SERICITE. HYDROTHERMAL BR?

97.5-100.6 BONANZA BRECCIA AND LAP. TUFF AS 75-87.8. 3% DISS PY PLUS TRACE MO AND SECONDARY CU

100.6-102.7 LATITE DYKE AS IN 91.7-97.5M. HYBR?

102.7-105.2 BONANZA BX + LAP TUFF AS ABOVE, PY 10%, WITH QTZ STKWK

105.2-109.4 SIL BRECCIA WITH 10% LATITE DYKE, AS 91.7-97.5

109.4-112.6 BONANZA BRECCIA + LAP TUFF. MODERATE PYROPHYLLITE, 10% PY IN STKWK

112.6-112.9 FAULT ZONE @ 30 DEGREES. STRONG SERICITE

112.9-133.2 BONANZA BX + LAP TUFF AS ABOVE. PYROPH NEAR LATITE DYKE @ 91.7-97.5. 2-5% PY DISS. OCCAS TR MO

113.2-156.1 AS ABOVE MOD TO STR QTZ STKWK +/- 10% PY WITH 1-2% BO + CV. STILL LIMONITE ON SOME OPEN FRACTURES

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	AD01 A N A L Y T I C A L D A T A RQD % W-CORE FIELD HAND	Cu % H-CORE ICM XRF	Mo % H-CORE ICM XRF	Fe % H-CORE ICM XRF	Au ppm H-CORE ICM FA	Ag ppm H-CORE ICM FA	As ppm H-CORE ACME ICP	Sb ppm H-CORE ACME ICP	Te ppm H-CORE ACME AA
A 01	.0	3.0											
A 01	3.0	4.6	99	1302	50	.04	.026	1.90	.05	-.01	186	4	4.2
A 01	4.6	6.1	98	1303	63	.03	.007	1.10	.45	-.01	55	2	1.3
A 01	6.1	7.6	96	1304	83	.04	.007	2.10	.07	-.01			
A 01	7.6	9.1	96	1305	80	.03	.006	1.20	.06	.04	7	2	1.3
A 01	9.1	10.7	96	1306	78	.03	.004	1.00	.03	-.01			
A 01	10.7	12.2	96	1307	57	.03	.006	0.80	.06	-.01	23	2	1.1
A 01	12.2	13.7	100	1308	82	.03	.005	0.70	.02	-.01	13	2	1.0
A 01	13.7	15.2	98	1309	87	.04	.010	2.60	.08	-.01			
A 01	15.2	16.8	97	1310	88	.03	.008	0.90	.02	.03	20	2	1.3
A 01	16.8	18.3	95	1311	80	.04	.010	2.20	.02	-.01			
A 01	18.3	19.8	95	1312	78	.03	.008	1.50	.17	.01	99	3	1.1
A 01	19.8	21.3	98	1313	80	.03	.012	1.50	.08	-.01			
A 01	21.3	22.9	99	1314	92	.04	.016	3.70	.10	.01	117	2	2.2
A 01	22.9	24.4	100	1315	89	.04	.012	3.30	.10	.07	210	2	1.8
A 01	24.4	25.9	100	1316	88	.04	.009	3.60	.11	.05			
A 01	25.9	27.4	100	1317	96	.04	.017	3.50	.10	.02	183	2	2.6
A 01	27.4	28.9	100	1318	98	.04	.012	2.90	.01	-.01			
A 01	28.9	30.5	98	1319	96	.04	.011	2.80	.02	-.01	124	3	1.2

UTAH MINES LTD., VANCOUVER B.C.
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DRILLHOLE/TRAVERSE : DDHEC155 (CONTINUED)

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	AD01 A N A L Y T I C A L D A T A RQD % W-CORE FIELD HAND	Cu % H-CORE ICM XRF	Mo % H-CORE ICM XRF	Fe % H-CORE ICM XRF	Au ppm H-CORE ICM FA	Ag ppm H-CORE ICM FA	As ppm H-CORE ACME ICP	Sb ppm H-CORE ACME ICP	Te ppm H-CORE ACME AA
A 01	30.5	32.0	97	1320	95	.04	.005	2.30	.13	.01			
A 01	32.0	33.5	94	1321	87	.03	.013	2.80	.07	-.01	25	2	0.2
A 01	33.5	35.0	93	1322	85	.03	.016	1.80	.14	-.01	51	2	0.9
A 01	35.0	36.6	99	1323	94	.04	.020	2.00	.06	.01			
A 01	36.6	38.1	100	1324	96	.04	.023	1.20	.03	-.01	33	2	0.1
A 01	38.1	39.6	100	1325	90	.03	.017	0.90	.02	-.01			
A 01	39.6	41.1	100	1251	98	.04	.013	1.00	.04	.01			
A 01	41.1	42.7	99	1252	67	.03	.020	0.90	.04	.01			
A 01	42.7	44.2	99	1253	60	.04	.020	0.90	.01	.01			
A 01	44.2	45.7	100	1254	87	.04	.014	1.00	.02	.01	42	2	1.2
A 01	45.7	47.2	100	1255	94	.04	.019	1.20	.02	.01			
A 01	47.2	48.8	98	1256	85	.03	.016	0.90	.04	.01	95	2	2.9
A 01	48.8	50.3	98	1257	83	.04	.056	2.20	.08	.01			
A 01	50.3	51.8	94	1258	63	.04	.081	3.00	.10	.01	458	9	4.1
A 01	51.8	53.3	93	1259	58	.05	.052	4.80	.35	.01			
A 01	53.3	54.9	91	1260	56	.04	.052	3.20	.38	.01	46	2	4.2
A 01	54.9	56.4	90	1261	50	.03	.011	1.00	.06	.01	28	2	0.2
A 01	56.4	57.9	92	1262	48	.03	.009	1.10	.04	.01	20	2	0.6
A 01	57.9	59.4	93	1263	48	.03	.009	0.80	.07	.01			
A 01	59.4	61.0	99	1264	86	.03	.009	1.20	.03	.01	9	2	0.5
A 01	61.0	62.5	100	1265	95	.04	.014	1.30	.04	.01			
A 01	62.5	64.0	100	1266	89	.04	.013	1.50	.02	.01	42	2	1.0
A 01	64.0	65.5	100	1267	88	.03	.006	1.30	.03	.03			
A 01	65.5	67.0	100	1268	94	.03	.009	1.30	.03	.03	41	2	0.2
A 01	67.0	68.6	100	1269	95	.03	.006	1.20	.01	.01			
A 01	68.6	70.1	98	1270	93	.03	.009	1.00	.03	.01	18	2	1.3
A 01	70.1	71.6	97	1271	93	.04	.010	1.20	.05	.01			
A 01	71.6	73.2	98	1272	83	.08	.021	1.90	.10	.01	128	2	1.2
A 01	73.2	74.7	100	1273	81	.03	.040	1.20	.06	.01			
A 01	74.7	76.2	100	1274	96	.04	.015	0.90	.03	.01	2	2	0.2
A 01	76.2	77.7	100	1275	100	.03	.022	0.60	.04	.01			
A 01	77.7	79.2	100	1277	90	.03	.013	0.60	.02	.01	6	2	0.1
A 01	79.2	80.8	98	1278	87	.03	.018	1.30	.02	.01	8	2	0.8
A 01	80.8	82.3	96	1279	86	.03	.013	0.40	.03	.01			
A 01	82.3	83.8	95	1280	86	.04	.017	2.10	.02	.01	7	2	0.3
A 01	83.8	85.3	98	1281	84	.03	.009	0.80	.03	.01			
A 01	85.3	86.9	99	1282	83	.05	.013	1.80	.12	.01	34	2	0.2
A 01	86.9	88.4	97	1283	76	.04	.015	1.10	.09	.01			
A 01	88.4	89.9	97	1284	74	.03	.019	1.10	.02	.01	41	2	1.1
A 01	89.9	91.4	93	1285	75	.04	.016	1.60	.02	.01			
A 01	91.4	93.0	92	1286	75	.04	.025	2.70	.01	-.01	43	2	1.6
A 01	93.0	94.5	92	1287	79	.03	.026	0.20	.02	-.01	2	2	0.9
A 01	94.5	96.0	92	1288	80	.03	.023	0.90	.01	-.01			
A 01	96.0	97.5	94	1289	82	.03	.023	0.80	.10	.03	11	2	1.0
A 01	97.5	99.1	95	1290	83	.03	.027	0.70	.03	.01			
A 01	99.1	100.6	91	1291	77	.03	.015	1.20	.05	-.01	22	2	0.8
A 01	100.6	102.1	90	1292	76	.03	.024	2.00	.06	.02			

UTAH MINES LTD., VANCOUVER B.C.
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DRILLHOLE/TRAVERSE : DDHEC155 (CONTINUED)

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	AD01 A N A L Y T I C A L D A T A RQD % W-CORE FIELD HAND	Cu % H-CORE ICM XRF	Mo % H-CORE ICM XRF	Fe % H-CORE ICM XRF	Au ppm H-CORE ICM FA	Ag ppm H-CORE ICM FA	As ppm H-CORE ACME ICP	Sb ppm H-CORE ACME ICP	Te ppm H-CORE ACME AA
A 01	102.1	103.6	96	1293	84	.04	.018	3.30	.06	.05	2	2	0.9
A 01	103.6	105.1	97	1294	86	.04	.016	3.90	.01	.10			
A 01	105.1	106.7	94	1295	65	.03	.026	1.10	.08	.03	8	2	0.8
A 01	106.7	108.2	93	1296	60	.03	.018	1.90	.01	.05			
A 01	108.2	109.7	96	1297		.03	.009	1.60	.03	.07	11	2	0.3
A 01	109.7	111.3	97	1298		.06	.010	1.30	.03	.04			
A 01	111.3	112.8	95	1299		.04	.031	4.10	.03	.03	151	2	1.7
A 01	112.8	114.3	94	1300	75	.04	.026	1.90	.24	.01			
A 01	114.3	115.8	74	1602	29	.04	.021	2.30	.03	-.01	94	2	1.1
A 01	115.8	117.3	69	1603	30	.04	.027	3.50	.02	.01			
A 01	117.3	118.9	92	1604	84	.07	.014	3.70	.06	.01	25	2	1.5
A 01	118.9	120.4	98	1605	97	.03	.017	1.20	.02	-.01	5	2	0.4
A 01	120.4	121.9	96	1606	82	.04	.022	2.10	.02	-.01			
A 01	121.9	123.4	96	1607	78	.04	.016	2.10	.02	-.01	14	2	0.1
A 01	123.4	125.0	98	1608	78	.03	.017	1.10	.04	-.01			
A 01	125.0	126.5	98	1609	78	.03	.024	1.80	.07	-.01	85	2	1.1
A 01	126.5	128.0	96	1610	69	.03	.017	1.20	.01	-.01			
A 01	128.0	129.5	95	1611	84	.03	.009	1.00	.03	-.01	89	2	1.0
A 01	129.5	131.1	94	1612	86	.03	.024	1.90	.07	-.01			
A 01	131.1	132.6	94	1613	10	.04	.030	3.90	.05	.01	61	2	1.4
A 01	132.6	134.1	94	1614	64	.04	.019	1.40	.07	-.01			
A 01	134.1	135.6	94	1615	63	.10	.019	4.20	.04	-.01	218	2	0.6
A 01	135.6	137.2	92	1616	77	.57	.015	3.10	.02	-.01			
A 01	137.2	138.7	92	1617	81	.68	.016	3.00	.07	.03	31	2	2.0
A 01	138.7	140.2	96	1618	80	.10	.012	6.30	.16	.06	81	2	0.5
A 01	140.2	141.7	97	1619	80	.30	.016	6.70	.08	.02			
A 01	141.7	143.3	92	1620	51	.16	.016	6.00	.16	.01	191	3	1.6
A 01	143.3	144.8	91	1621	44	.05	.010	6.10	.22	.01			
A 01	144.8	146.3	93	1622	57	.04	.018	6.10	.21	-.01	17	2	0.5
A 01	146.3	147.8	93	1623	60	.05	.014	7.70	.11	-.01			
A 01	147.8	149.3	84	1624	36	.07	.012	8.10	.21	.01	124	2	0.3
A 01	149.3	150.9	82	1625	30	.06	.016	5.60	.27	-.01			
A 01	150.9	152.4	84	1626	35	.07	.012	7.30	.10	-.01	142	2	0.6
A 01	152.4	153.9	84	1627	36	.07	.028	5.60	.25	-.01			
A 01	153.9	156.1	86	1628	38	.14	.012	7.20	.30	-.01	38	2	1.8

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	AD02 A N A L Y T I C A L D A T A Pb ppm H-CORE ACME ICP	Zn ppm H-CORE ACME ICP	Co ppm H-CORE ACME ICP	Bi ppm H-CORE ACME ICP	Ba ppm H-CORE ACME ICP
A 02	.0	3.0							
A 02	3.0	4.6		1302	12	4	1	2	1
A 02	4.6	6.1		1303	5	14	1	2	
A 02	6.1	7.6							
A 02	7.6	9.1		1305	9	3	1	2	2

UTAH MINES LTD., VANCOUVER B.C.
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DRILLHOLE/TRAVERSE : DDHEC155 (CONTINUED)

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	AD02 A N A L Y T I C A L D A T A Pb ppm H-CORE ACME ICP	Zn ppm H-CORE ACME ICP	Co ppm H-CORE ACME ICP	Bi ppm H-CORE ACME ICP	Ba ppm H-CORE ACME ICP
A 02	9.1	10.7							
A 02	10.7	12.2		1307	2	2	1	2	
A 02	12.2	13.7		1308	4	2	1	2	1
A 02	13.7	15.2							
A 02	15.2	16.8		1310	10	3	1	2	1
A 02	16.8	18.3							
A 02	18.3	19.8		1312	11	4	1	2	2
A 02	19.8	21.3							
A 02	21.3	22.9		1314	14	4	1	3	1
A 02	22.9	24.4		1315	15	3	1	2	
A 02	24.4	25.9							
A 02	25.9	27.4		1317	16	13	1	2	2
A 02	27.4	28.9							
A 02	28.9	30.5		1319	9	4	1	2	1
A 02	30.5	32.0							
A 02	32.0	33.5		1321	5	3	1	2	1
A 02	33.5	35.0		1322	6	3	1	2	
A 02	35.0	36.6							
A 02	36.6	38.1		1324	8	1	1	2	1
A 02	38.1	39.6							
A 02	39.6	41.1							
A 02	41.1	42.7		1252	2	3	1	2	1
A 02	42.7	44.2							
A 02	44.2	45.7		1254	4	2	1	2	1
A 02	45.7	47.2							
A 02	47.2	48.8		1256	8	3	1	2	1
A 02	48.8	50.3							
A 02	50.3	51.8		1258	17	4	1	2	1
A 02	51.8	53.3							
A 02	53.3	54.9		1260	4	4	1	2	1
A 02	54.9	56.4		1261	3	2	1	2	
A 02	56.4	57.9		1262	7	5	1	2	1
A 02	57.9	59.4							
A 02	59.4	61.0		1264	8	2	1	2	2
A 02	61.0	62.5							
A 02	62.5	64.0		1266	8	3	1	2	1
A 02	64.0	65.5							
A 02	65.5	67.0		1268	8	3	1	2	1
A 02	67.0	68.6							
A 02	68.6	70.1		1270	13	3	1	2	1
A 02	70.1	71.6							
A 02	71.6	73.2		1272	13	4	1	2	1
A 02	73.2	74.7							
A 02	74.7	76.2		1274	2	3	3	2	1
A 02	76.2	77.7							
A 02	77.7	79.2		1277	4	2	1	2	
A 02	79.2	80.8		1278	8	2	1	2	1

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DRILLHOLE/TRAVERSE : DDHEC155 (CONTINUED)

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	ADO2 A N A L Y T I C A L D A T A Pb ppm H-CORE ACME ICP	Zn ppm H-CORE ACME ICP	Co ppm H-CORE ACME ICP	Bi ppm H-CORE ACME ICP	Ba ppm H-CORE ACME ICP
A 02	80.8	82.3							
A 02	82.3	83.8		1280	14	4	1	2	1
A 02	83.8	85.3		1282	2	3	3	2	5
A 02	85.3	86.9							
A 02	86.9	88.4							
A 02	88.4	89.9		1284	11	3	1	2	2
A 02	89.9	91.4							
A 02	91.4	93.0		1286	13	4	2	2	
A 02	93.0	94.5		1287	3	2	1	2	1
A 02	94.5	96.0							
A 02	96.0	97.5		1289	9	11	1	2	1
A 02	97.5	99.1							
A 02	99.1	100.6		1291	8	3	1	2	1
A 02	100.6	102.1							
A 02	102.1	103.6		1293	2	5	11	2	1
A 02	103.6	105.1							
A 02	105.1	106.7		1295	6	3	1	2	1
A 02	106.7	108.2							
A 02	108.2	109.7		1297	10	4	1	2	1
A 02	109.7	111.3							
A 02	111.3	112.8		1299	20	5	3	2	1
A 02	112.8	114.3							
A 02	114.3	115.8		1602	11	2	1	2	1
A 02	115.8	117.3							
A 02	117.3	118.9		1604	7	5	7	2	1
A 02	118.9	120.4		1605	8	1	2	2	1
A 02	120.4	121.9							
A 02	121.9	123.4		1607	14	2	3	2	1
A 02	123.4	125.0							
A 02	125.0	126.5		1609	31	2	3	2	1
A 02	126.5	128.0							
A 02	128.0	129.5		1611	26	2	1	2	2
A 02	129.5	131.1							
A 02	131.1	132.6		1613	32	6	16	2	1
A 02	132.6	134.1							
A 02	134.1	135.6		1615	31	8	23	2	1
A 02	135.6	137.2							
A 02	137.2	138.7		1617	25	4	1	2	
A 02	138.7	140.2		1618	37	9	29	2	1
A 02	140.2	141.7							
A 02	141.7	143.3		1620	23	9	29	2	1
A 02	143.3	144.8							
A 02	144.8	146.3		1622	23	8	26	2	1
A 02	146.3	147.8							
A 02	147.8	149.3		1624	76	12	38	2	6
A 02	149.3	150.9							
A 02	150.9	152.4		1626	35	10	26	2	1

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DRILLHOLE/TRAVERSE : DDHEC155 (CONTINUED)

A UMM / A TYP / A LAB / A MTH	FROM	TO	RECOV	SAMPLE	AD02 A N A L Y T I C A L D A T A Pb ppm H-CORE ACME ICP	Zn ppm H-CORE ACME ICP	Co ppm H-CORE ACME ICP	Bi ppm H-CORE ACME ICP	Ba ppm H-CORE ACME ICP
A 02	152.4	156.1		1628	24	12	30	2	

A UMM / A LAB / A MTH	FROM	TO	RECOV	SAMPLE	AD03 A N A L Y T I C A L D A T A SiO2 % H-CORE ACME WRA	Al2O3 % H-CORE ACME WRA	Fe2O3 % H-CORE ACME WRA	MgO % H-CORE ACME WRA	CaO % H-CORE ACME WRA	Na2O % H-CORE ACME WRA	K2O % H-CORE ACME WRA	TiO2 % H-CORE ACME WRA	P2O5 % H-CORE ACME WRA
A 03	.0	4.6											
A 03	4.6	6.1		1303	94.26	1.35	1.66	0.04	0.11	0.01	0.09	0.45	0.08
A 03	6.1	10.7											
A 03	10.7	12.2		1307	94.22	0.85	1.26	0.03	0.10	0.01	0.01	0.45	0.08
A 03	12.2	22.9											
A 03	22.9	24.4		1315	87.90	2.84	3.62	0.01	0.49	0.65	0.46	1.25	0.55
A 03	24.4	33.5											
A 03	33.5	35.0		1322	92.71	1.72	1.79	0.02	0.38	0.01	0.15	0.84	0.58
A 03	35.0	53.3											
A 03	53.3	54.9		1260	89.41	2.66	4.27	0.04	0.44	0.01	0.01	0.45	0.56
A 03	54.9	56.4		1261	93.06	1.59	1.85	0.06	0.14	0.08	0.49	0.67	0.13
A 03	56.4	77.7											
A 03	77.7	79.2		1277	70.42	20.87	1.47	0.05	0.22	0.12	0.01	0.55	0.22
A 03	79.2	91.4											
A 03	91.4	93.0		1286	77.88	11.96	3.29	0.06	0.27	0.10	0.30	0.90	0.32
A 03	93.0	117.3											
A 03	117.3	118.9		1604	70.54	15.67	5.70	0.03	0.12	0.01	0.01	0.52	0.09
A 03	118.9	137.2											
A 03	137.2	138.7		1617	63.51	18.02	6.81	0.05	0.13	0.01	0.85	0.70	0.01
A 03	138.7	153.9											
A 03	153.9	156.1		1628	52.90	17.76	15.22	0.05	0.14	0.01	0.01	0.80	0.05

A UMM / A TYP / A LAB / A MTH	FROM	TO	RECOV	SAMPLE	AD04 A N A L Y T I C A L D A T A MnO % H-CORE ACME WRA	Cr2O3 % H-CORE ACME WRA	Ba % H-CORE ACME WRA	Zr % H-CORE ACME WRA
A 04	.0	4.6						
A 04	4.6	6.1		1303		0.01	0.01	33	112
A 04	6.1	10.7							
A 04	10.7	12.2		1307		0.01	0.01	30	125
A 04	12.2	22.9							
A 04	22.9	24.4		1315		0.01	0.01	76	112
A 04	24.4	33.5							
A 04	33.5	35.0		1322		0.01	0.01	138	86
A 04	35.0	53.3							
A 04	53.3	54.9		1260		0.01	0.01	141	117
A 04	54.9	56.4		1261		0.01	0.01	68	104

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DRILLHOLE/TRAVERSE : DDHEC155 (CONTINUED)

A UMM A TYP A LAB A MTH	FROM	TO	RECOV	SAMPLE	ADO4 ANALYTICAL DATA MnO % H-CORE ACME WRA	 Cr203 % H-CORE ACME WRA	 Ba % H-CORE ACME WRA	 Zr % H-CORE ACME WRA	
A 04	56.4	77.7							
A 04	77.7	79.2		1277		0.01	0.01	70	90
A 04	79.2	91.4							
A 04	91.4	93.0		1286		0.01	0.01	69	104
A 04	93.0	117.3							
A 04	117.3	118.9		1604		0.01	0.01	48	67
A 04	118.9	137.2							
A 04	137.2	138.7		1617		0.01	0.01	63	78
A 04	138.7	153.9							
A 04	153.9	156.1		1628		0.01	0.01	43	56