

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)

HOLE No.: K97-1

Collar Eastings: -279.00

Collar Northings: 265.00

Collar Elevation: 0.00

Grid: BMG O35 DEG

Claim: 1221719

Collar Inclination: -50.00

Grid Bearing: 325.00

Final Depth: 142.00 metres

Log Completed: 11/11/97

Core: NQ/store at Aunor Minesite, Timmins

Logged by: W Corstorphine

Date: 7/11/97 to 10/11/97

Down-hole Survey: Acid

Contractor: NDS Drilling

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	ASSAYS		
						WIDTH	Au g/t	ck g/t
0.0	3.0	(Ob) Overburden-casing						
3.0	31.1	(2MS 2MS fl,fg,mpv alt-Serp?,1-2%Q/Cv,mloc py) Massive Mafic Volcanic-moderately altered Fine-grained, massive, evenly textured groundmass of pale green to grey-green and buffish hue. Distinct crystals, <1mm, of whitish feldspar? and pale olive-green, altered? ferromagnesian, possibly pyroxene, latter causes most of the greenish cast to the rock.	5201	11.00	11.50	0.50	0.01	
			5202	26.10	27.10	1.00	0.04	
			5203	27.10	28.10	1.00	0.01	
			5204	28.10	29.10	1.00	0.07	
			5205	29.10	30.10	1.00	0.25	
			5206	30.10	31.10	1.00	0.01	0.01

The porphyroblastic component of dark green serpentine, spots the pale groundmass up to 5%. The serpentine crystals are anhedral and of variably shaped. Size averages 1mm and can range up to 2mm in one dimension.

1-2% white calcite and white quartz veinlets, 1-5mm wide cross the core. Irregular shapes and orientations, present every 20-50cm. 11.25: quartz veinlet, 5mm, in broad S-shape across the core for 13cm. Note 1-2%, fine, bright, anhedral blebs of pyrite in the adjacent volcanic groundmass. A few specs are present the veinlet. Similar pyrite blebs appear sporadically in the volcanic groundmass from place to place - very irregular occurrence.

3.0-7.7: blocky ground, local rubble (25%).

8.2: open seam of 4cm, filled with silty clay.

9.0: 10cm of rubbly core.

Unit is uniform in appearance to 25.2m. Veining to this point is calcite and quartz-quartz-calcite, after this point veining in ankerite and quartz-ankerite.

The mafic unit rapidly changes in appearance to a more ultramafic-like phase. As described above, the dark flecking in



41P11NE2004 2.18783 KNIGHT

010

Wayne Corstorphine

Battle Mountain Canada Ltd

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS				
				FROM	TO	WIDTH	Au g/t	ck g/t
		the 3.0-25.2 interval may be serpentine - very soft with a soapy-look to it. The change at 25.2 involves a marked increase in the percentage of the dark green, phyrlic crystals such that they form 30-35% of the field. The groundmass to these 1-1.5mm grains is carbonate-rich - ankerite, and light whitish-grey in colour. The grains are evenly matrix supported.						
		25.2-29.5: An increase in percentage of veining in the unit to 5-10%. Individual veinlets range from <1mm up to 1cm, averaging 3-5mm. Occurrence is even to locally concentrated up to 10% over 10-15cm. Orientation is random but the majority are at 45-90 deg. Pyrite is sparse but present as small <<1mm grains in the volcanic groundmass and veinlets. Estimate trace to <1% overall. Where veining is heaviest there is coincident replacement and washing away of the host groundmass texture and it becomes greyish-white in colour. These vein-alteration patches form small, sporadic patches up to 10cm wide along the core length - 5% of the core.						
		At 29.2 the unit becomes darker in colour as serpentinization intensifies and the unit begins to look more like an ultramafic - proportion of serpentinized grains increases to 30-40% and the paler groundmass develops a greenish-beige colour. The rock is moderately soft.						
		Lower contact is sharp - intrusive type at 90 deg.						
31.1	35.5	(8U 8U msv,f-glom,mag) Diabase-feldspar glomeroporphyritic Fine-grained, massive, dark blackish colour on fresh surface. Pale yellow-green feldspar phenocrysts up to 1cm, anhedral in outline, 5% abundance - very obvious accumulations. Distinctly magnetic except near the contacts for 10-30cm.						
		Lower contact in broken core.						
35.5	40.3	(1U 1U msv,mg,w-mpv Serp/Tc,mAv,mmag) Ultramafic-moderately altered Medium buffish grey-green, medium-grained, massive. Groundmass of 1-2mm pale multicrystal aggregates of whitish to greenish-white colour with subrounded outline - concentrated	5207 5208 5209 5210 5211	35.50 36.30 37.30 38.30 39.30	36.30 37.30 38.30 39.30 40.30	0.80 1.00 1.00 1.00 1.00	0.01 0.04 0.01 0.01 0.01	

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	ASSAYS			
						WIDTH	Au g/t	ck g/t	
		<p>enough to be almost self supporting. Matrix to this crystal phase is a medium beige-green serpentized groundmass component. Overall appearance is that of densely spotted rock - almost like small varioles.</p> <p>A strong structural feature of the unit are darkly coloured (more strongly serpentized), curved, selvage-like lines 1cm in width, that breakup the uniformity of the rock - the create rounded forms 5-10cm and up to 20cm in diameter. These are rounded forms characteristic of some ultramafics. In almost all instances these dark selvage-forms are centred by a white carbonate veinlet, or braided concentration of them, up to 1cm wide.</p> <p>The rock is quite soft and easily gouged.</p> <p>Ankerite filled fractures and linear veinlets averaging 1-1.5cm wide permeate the unit at random orientations.</p> <p>Sulphides are sparse in nil to trace amounts.</p> <p>Lower contact in broken core but suggestion of a low core angle at 10 deg.</p>							
40.3	41.3	<p>(6U 6U msv,vfg,nonmag) Mafic Volcanic Dyke Black, very fine-grained, nonmagnetic. Unaltered, no veining or mineralization.</p>	5212	40.30	41.30	1.00	0.26		
41.3	47.0	<p>(AZ mAZ/1U+2MS mSZ-loc,mSer-mAnk,5%Av,1%py) Alteration-Shear Zone, weakly pyritic, moderately veined Distinct section with both foliated and massive sections. Distinctive in its colour which is pale beige due to sericite and ankerite content in the pervasively altered groundmass.</p>	5213	41.30	42.00	0.70	0.01		
			5214	42.00	43.00	1.00	0.17		
			5215	43.00	44.00	1.00	0.04		
			5216	44.00	45.00	1.00	0.15		
			5217	45.00	46.00	1.00	0.14		
			5218	46.00	47.00	1.00	0.16	0.13	
		<p>Foliated sections defined more by streaky colouring accentuated by fine ankerite lenses and veinlets in a few areas.</p> <p>Strongest fabric developed at following intervals: 41.3-42.8: 75% foliated, 25% massive. 43.4: 10cm of foliated rock.</p>							

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	ASSAYS		
						WIDTH	Au g/t	ck g/t
		45.1: 8cm of foliated, veined material.						
		45.2-47.0: brecciated, veined section with 10-12% white ankerite veining, up to 10cm in width - very irregular and patchy distribution.						
		Pyrite content in the above sections is sparse at trace to 1%.						
		Protolith uncertain but to 45.0 the groundmass texture suggests it is the overlying ultramafic. From 45.0 to 47.0 the protolith is probably the underlying volcanic.						
		Lower contact at ankerite vein, volcanic contact at 60 deg.						
47.0	65.9	(2MS 2MS fl,mg,lx,wSer-loc,5%Av+pat 5-10% py,mnrQv)	5219	47.00	48.00	1.00	0.08	
		Mafic Volcanic, massive, moderately altered	5220	48.00	49.00	1.00	0.06	
		Similar to sections in 3.0-31.1.	5221	49.00	50.00	1.00	0.41	
		Distinctly medium-grained, massive, medium grey-green from interplay of green ferromagnesian and light, greyish feldspar crystals. Overall colour can vary from light grey-green to darker blackish-green.	5222	50.00	51.00	1.00	5.41	5.90
			5223	51.00	52.00	1.00	2.51	
			5224	52.00	53.00	1.00	0.07	
			5225	53.00	54.00	1.00	0.01	
			5226	54.00	55.00	1.00	0.04	
		Pale pinkish leucoxene intermittently present in 1-3% concentrations - very small specks.	5227	63.90	64.90	1.00	0.01	
			5228	64.90	65.90	1.00	0.07	
		Ankerite veinlets common at 5% as well as occasional quartz-ankerite veinlets. Veinlet intervals every 10cm or so. Most average <1cm wide.						
		Heavy pyrite associated with some of these latter veinlets - especially the more subtle ones which appear to be related to alteration rather than simple fracture veining. An example is at 50.9m where 5-10% fine-grained pyrite clusters within 1cm of a 1-2mm ankerite veinlet. Pyrite is ubiquitous but patchy in this section immediately following the alteration zone. Ankerite veinlets have random orientations, some as low as 30 deg. Veining is fairly evenly distributed through the section.						
		Locally there is brownish-beige cast to the alteration that pervades the volcanic in a subtle fashion.						
		Lower contact intrusive at 60 deg.						

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS				
				FROM	TO	WIDTH	Au g/t	ck g/t
65.9	68.0	(2U 2U/dyke msv,vfg,nonmag) Mafic Volcanic Dyke Dark green with beige cast, very fine-grained. Contains 1% scattered white ankerite blebs about 1-2mm in size. 66.6-66.7: small interval of strongly foliated, altered volcanic, similar to that immediately above the dyke. 67.5-67.7: same as 66.6. Fine chill margins at 66.6 and 66.7. The unit is nonmagnetic. Appears to be late volcanic intrusive, does not appear to be diabase. Contains small number of ankerite veinlets. Is dissimilar to 40.3. Lower contact sharp - intrusive at 80 deg.	5229	65.90	66.90	1.00	0.11	0.12
68.0	121.5	(1U 1U/6P? msv,f-mg,mag,3%Av) Ultramafic - Peridotite?, massive, magnetic Dark green to blackish-green, massively textured, fine to medium-grained groundmass. Laced with randomly oriented and spaced ankerite filaments and veinlets in 2-3% concentrations. Soft, slight talcose feel, moderately serpentized. Very uniform appearance. No spinifex or polygonal structures. Moderately to strongly magnetic. Tectonized over initial 4 meters at 60-70 deg to core axis. 70.4-71.9: gouge, rubble zone, seam with no core from 70.4 to 71.2. No sulphides present in the unit. 93.9-114.2: blocky ground with a number of strong breaks in the core, and local coarse rubble over 10-20cm intervals.						

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS				
				FROM	TO	WIDTH	Au g/t	ck g/t
		Some section of the ultramafic have brighter green colouring as opposed to the blackish-green colour- usually where there is a coarse rubbly structure a the rock is crushed.						
		Last .5m contains slight increase in the amount of white ankerite veining - parallel 3-4mm wide veinlets, all at about 60 deg to core axis, every 1-10cm.						
		107.5 110.8 (2U 2U msv,fg) Mafic Volcanic Possibly an inclusion. Upper contact is irregular and very hard to trace due to lack of colour contrast - definitely not a sharp. Contact at 110.8 is sharp at 35 deg but irregular on other side of the core. Unit's colour is grey-green with buffish cast, fine-grained, massive groundmass. No veining or distinct alteration. Faint darker, greyish seams and small patches.						
		110.8-121.5: ultramafic as previous Continuation, same throughout. No alteration or significant veining, characteristic white veinlets are calcite-bearing. Location of change from ankerite to calcite not determined.						
121.5	142.0	(8U 8U msv,f-glom,mag) Diabase-feldspar glomeroporphyritic Typical feldspar porphyritic diabase. Fine-grained groundmass with 3% lime-green, subhedral feldspar up to 1cm in size. Weakly to moderately magnetic - the ultramafic in distinctly more magnetic than this unit.						
		142.0 End of Hole Casing left, capped Core boxes: 34, stored at Aunor Minesite, Timmins Assay samples: 29 (Au) Township: Knight NTS: 41P 10/11 UM: 495610E/5281789N (approx) Claim: collar on 1221719, eoh on same Collar Location: 100m E, 89m N of #3 post of 1221719 Location of eoh: 333.47W/342.79N, elevation -105.57m						

HOLE No: K97-1

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DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)
 HOLE No.: K97-1

 FROM TO LITHOLOGICAL DESCRIPTION SAMPLE No. FROM TO ASSAYS
 WIDTH Au g/t ck g/t

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
60.00	-47.50	325.00
105.00	-47.50	325.00
142.00	-47.50	325.00

GEOLOGY LEGEND

8U Diabase (U=undifferentiated)

7U Felsic to Intermediate Intrusive

- 7G Granite
- 7Gd Granodiorite, Quartz Monzonite
- 7T Tonalite
- 7S Syenite
- 7M Monzonite
- 7FP Feldspar Porphyry
- 7QFP Quartz-Feldspar Porphyry
- 7PA Pegmatite
- 7A Aplite
- 7F Felsite

6U Mafic to Ultramafic Intrusive

- 6D Diorite, Trondhjemite
- 6G Gabbro
- 6A Anorthosite
- 6P Peridotite, Pyroxenite
- 6L Lamprophyre

5U Clastic Sediments

- 5Ar Argillite
- 5ARGF Graphitic Argillite
- 5GW Greywacke
- 5CG Conglomerate
- 5CGT Timiskaming Conglomerate
- 5SS Sandstone
- 5ST Siltstone
- 5Q Quartzite
- 5A Arkose

4U Chemical Sediments

- 4IF Iron Formation
- 4IFS Sulphide Facies
- 4IFC Silicate Facies
- 4IFO Oxide Facies
- 4C Chert
- 4IGF Graphite

3U Felsic to Intermediate Volcanic

- 3R Rhyolite
- 3D Dacite
- 3A Andesite
- 3T Trachyte

2U Mafic Volcanics

- 2MS Massive
- 2P Pillowed
- 2FB Flow Breccia
- 2HY Hyaloclastite
- 2VAR Variolitic
- 2POR Porphyritic
- 2CA Calc-Alkaline
- 2IT Iron Tholeiite
- 2MT Magnesium Tholeiite

1U Ultramafic Volcanic

- 1TC Talc-Chlorite (altered)
- 1GCB Green-Carbonate (altered)
- 1K Komatiite
- 1BK Basaltic Komatiite

ABBREVIATIONS

Texture

- ag, agg agglomerate
- amy amygdaloidal
- FB, fb, fbx flow breccia
- fol foliated
- glom glomerophyric
- gm groundmass
- hy hyaloclastic
- htr heterolithic
- lap lapilli
- ms, msv, mas massive
- p pillowed
- pj polygonal jointing
- por porphyritic
- qt quench texture
- sch schistose
- sfx spinifex
- t tuff, tuffaceous
- tx texture
- tbx, t-bx tuff-breccia
- ves vesicular
- var variolitic
- _phy _phyric

Alteration

- Ab albitization
- Ank ankeritization
- AZ, az alteration zone
- Bi biotite
- Blch bleached
- Cal calcitic
- Carb carbonatization
- Cb carbon
- Chl chloritization
- Ep epidotization
- Fu fuchsite
- Gcb green carbonate/fuchsite
- Gos gosson
- Hem hematization
- Lx leucoxene
- Pot potassic
- Ser sericitization
- Serp serpentinitization
- Sil silicification
- Tc talc
- Tour tourmaline

Mineralization

- Asb asbestose
- Asp arsenopyrite
- Clpy cluster pyrite
- Cpy, Cp chalcopyrite
- Cry crysotile
- Dspy disseminated pyrite
- Gn, Gal galena
- Gf graphite
- Mt magnetite
- Mo molybdenite
- Po pyrrhotite
- Py pyrite
- Sw stockwork
- VG visible gold
- MZ mineralized zone

Veining

- Asbv asbestose
- Av ankerite
- Cv calcite
- Epv epidote
- Hemv hematite
- Mtv magnetite
- Qv quartz
- Qav quartz-ankerite
- Qcv quartz-calcite
- Qtourv quartz-tourmaline
- Tourv tourmaline

Structural

- bd bedded
- bnd banded
- bx breccia
- bxd brecciated
- ct contact
- F, f fault
- FZ, fz fault zone
- flt faulting
- fl flow
- fr fracture
- g gouge
- pj polygonal jointing
- s, sh shear
- SZ, sz shear zone
- slk slickenside

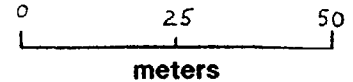
Other

- bld boulder
- ch, cty cherty
- cg coarse-grained
- fg fine-grained
- int intermittent
- loc, l__ local, locally
- mag magnetic
- mg medium-grained
- mnr minor
- mod, m__ moderate
- Ob, Ovb overburden
- pv pervasive
- rub rubble
- sil siliceous
- st, s__ strong
- tect tectonized
- tr trace
- v__ very
- wk, w__ weak

2.18783

Geological Legend:

- Intrusive - Late
- Diabase
- Intrusive - Early
- Felsic
- Mafic to Ultramafic
- Sediments
- Clastic
- Chemical
- Volcanics
- Felsic
- Intermediate
- MAFIC VOLCANICS
- Undifferentiated
- Massive
- Variolitic
- ULTRAMAFIC VOLCANICS
- Undifferentiated
- ALTERATION
- Undifferentiated Zone
- MINERALIZATION
- Undifferentiated Zone



BATTLE MOUNTAIN GOLD

PROJECT: KNIGHT (711060)

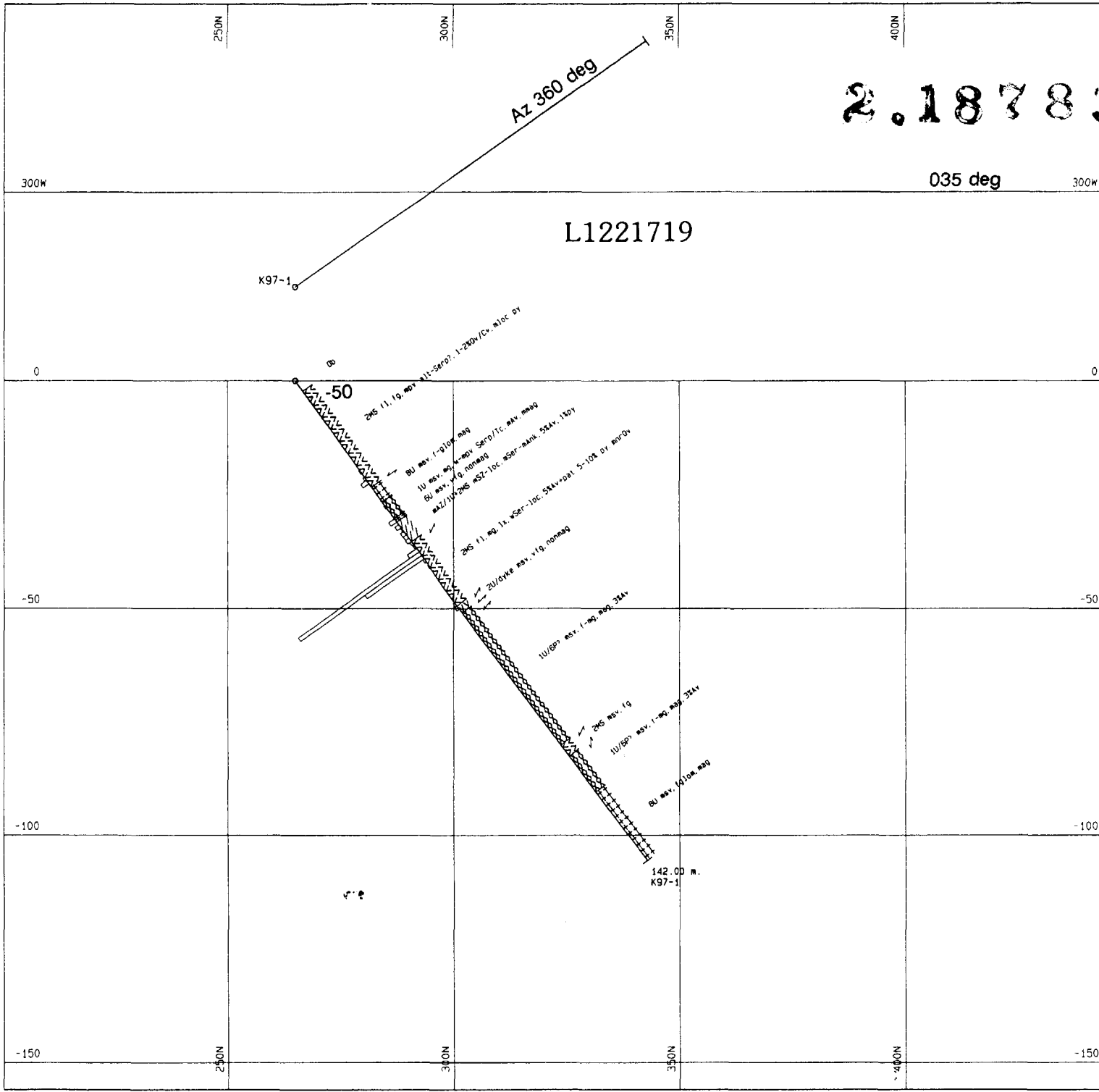
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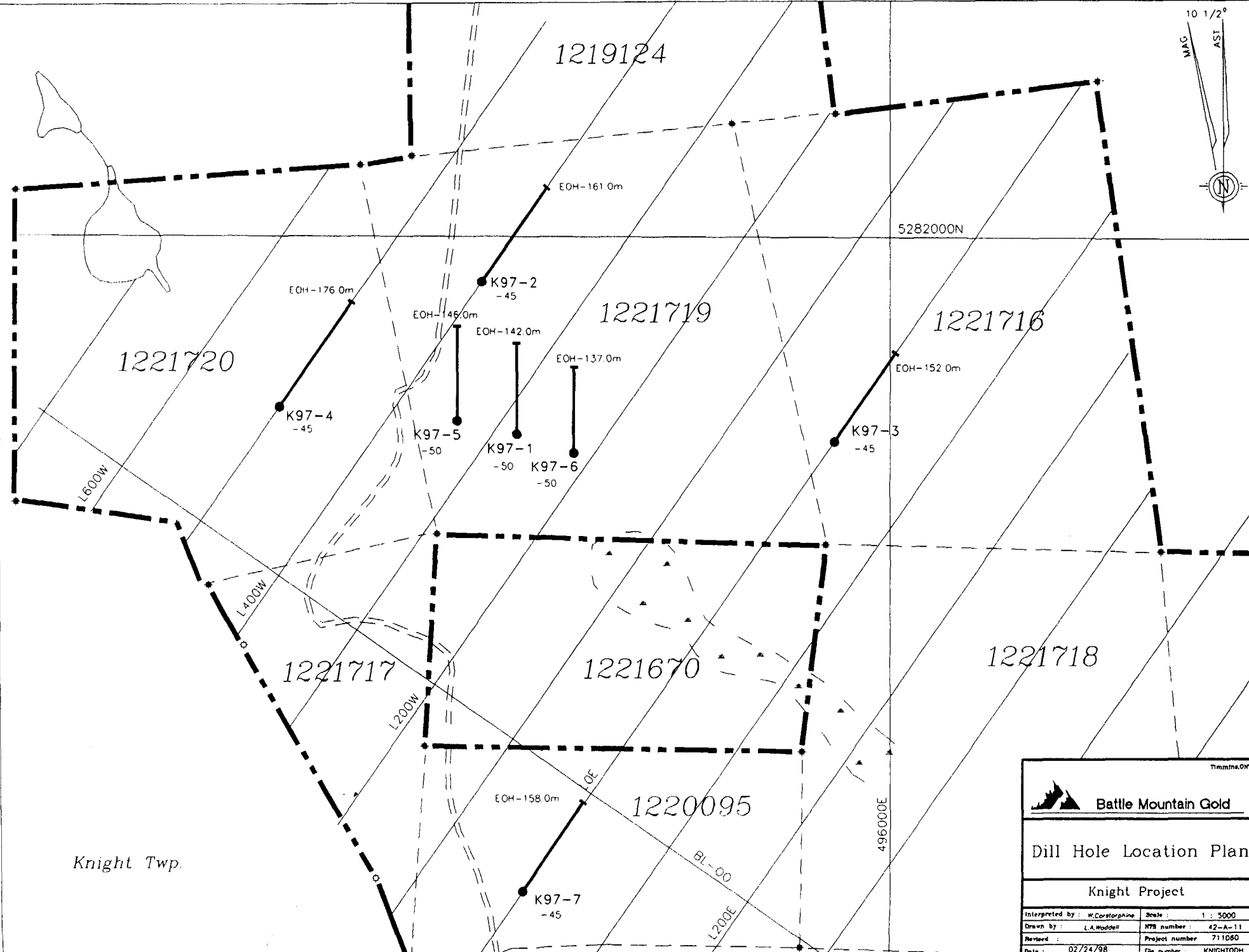
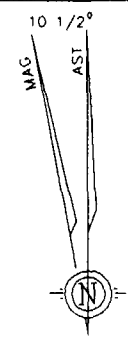
DRILL HOLE: K97-1

ASSAY SCALE: 1cm=2g/t Au


DATE: 98/02/23

SCALE: 1/1200





Timmins, ONT.



Battle Mountain Gold

Dill Hole Location Plan

Knight Project

Interpreted by : W. Corstorphine	Scale : 1 : 5000
Drawn by : L.A. Wadden	NYS number : 42-A-11
Revised :	Project number : 711060
Date : 02/24/98	File number : KNIGHT00H

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)

HOLE No.: K97-2

Collar Eastings: -400.00

Collar Northings: 375.00

Collar Elevation: 0.00

Grid: BMG O35 DEG

Claim: 1221719

Collar Inclination: -45.00

Grid Bearing: 0.00

Final Depth: 161.00 metres

Log Completed: 11/11/97

Core: NQ/stored at Aunor Minesite, Timmins

Logged by: W Corstorphine

Date: 8/11/97 to 9/11/97

Down-hole Survey: Acid

Contractor: NDS Drilling

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS				
				FROM	TO	WIDTH	Au g/t	ck g/t
0.0	7.0	(Ob) Overburden-casing						
7.0	19.0	(8U 8U msv,fg,f-glom,mag) Diabase-feldspar glomerporphyritic, magnetic Dark green, fine-grained groundmass. 1-2% lime-green feldspar phenocrysts up to 1cm. Magnetic. 13.0-14.2: blocky core. Lower contact 80 deg, sharp - chilled over several cm.						
19.0	24.1	(1U 1U msv,f-mg,2%Cv,tr py) Ultramafic Dark blackish-green groundmass of fine to medium rain size. Texture is a fine 1mm mottle of even sized grains. Slightly lighter grey, coalescing, roundish 1mm grains (60%), matrixed tightly by deep green groundmass. On cored surface the greyish grains are light grey. Slight talcose feel to the core surface. Yellow-green serpentine slip surfaces on some fractures. Very minor disseminated pyrite - scattered 1-2% in isolated patches. No significant alteration - 1-2% white calcite stringers. Lower contact distinct over 10-20cm but not sharp - lack of colour and textural contrast between the ultramafic and the adjacent mafic unit. Coarse irregular, almost mixed, breccia relationship. Minor calcite veinlets at 10-15 deg to core axis						



41P11NE2004 2.18783 KNIGHT

020

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	ASSAYS		
						WIDTH	Au g/t	ck g/t
24.1	30.6	(2MS 2MS fl,f-mg,lx,nonmag,3-5%Cv/Av,tr py) Mafic Volcanic - massive flow Medium to fine-grained, massive texture. A mottled, medium grey, coalescing groundmass component (feldspathic) - 80-85%, matrixed by darker, green hornblende - all are probably aggregate assemblages rather than larger individual crystals. 1-2% very fine, pale rosy leucoxene throughout groundmass. Nonmagnetic. There is some variation in the clarity of the groundmass texture and overall colour due to changes in grain size and effects of carbonate and quartz-carbonate stringers that occur intermittently throughout the section - 3-5% overall. Veinlets are up to several cm in several places with another measuring 10cm at 26.05 meters. Sulphide association is sparse - nil to trace. Distribution of remaining stringers is uniform except in central part of the section from 26.8 to 28.9 where veining is sparse. 28.9-30.6: Increased ankerite veining to 5%. Irregular pattern of veinlets and lenses at 45 deg. There are some later, filled-in fractures that are discordant to the 45 deg veining. No significant sulphides observed. The unit's colour changes to a brighter green cast suggestive of weak fuchsite. Several 5-8mm wide, sericitized fracture zones are present - occur at low core angles. Lower contact relatively distinct at 20 degrees. Evidence of disturbance - minor shearing or fragmentation.	5230	25.90	26.90	1.00	0.08	
			5231	28.80	29.80	1.00	0.01	
30.6	47.9	(5U 5ARGE/mnr lam 4IFS/msv5ST loc cg py) Graphitic Sediments -Argillite, Siltstone, Sulphide Iron Formation	5232	29.80	30.80	1.00	0.01	
			5233	30.80	31.80	1.00	0.01	
			5234	31.80	32.70	0.90	0.01	

HOLE No: K97-2

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	ASSAYS		
						WIDTH	Au g/t	ck g/t
		Laminated, fine-grained sediments dominated by black and grey graphitic argillite (50%), and pale, tan to faintly greenish-tan siltstone (50%). Bedding is very well preserved - several locations exhibiting flame structure and graded bedding, all indication tops to be up-hole towards the south west. Individual beds and laminations range from <1mm up to 80cm in the case of one volcanic siltstone interval starting at 38.0m. Some local breccia textures and soft sediment dislocation particularly at and toward the stratigraphic top of the unit.	5235	32.70	33.70	1.00	0.01	0.01
			5236	33.70	34.70	1.00	0.07	
			5237	34.70	35.70	1.00	0.01	
			5238	35.70	36.70	1.00	0.01	
			5239	36.70	37.70	1.00	0.01	
			5240	37.70	38.70	1.00	0.01	
			5241	38.70	39.70	1.00	0.01	
			5242	39.70	40.70	1.00	0.01	
			5243	40.70	41.70	1.00	0.01	
			5244	41.70	42.70	1.00	0.01	
			5245	42.70	43.70	1.00	0.07	
			5246	43.70	44.70	1.00	0.05	
		Core angles vary from 85 to 60 degrees , 75 to 80 is the most common by far.	5247	44.70	45.50	0.80	0.01	0.01
			5248	45.50	46.50	1.00	0.01	
			5249	46.50	47.90	1.40	0.01	
		Occasional massive, fine-grained pyrite laminae. Heaviest occurrence is at 35.3 with about 5cm of 60% massive pyrite. Otherwise pyrite laminae are only 1-3mm and intermittent. They tend to occur in 3-5cm clusters in the more graphitic sections.						
		A number of water seams are present as far as 36.0.						
		30.6-32.1: Siltstone Pale tan-buff fragments matrixed by light grey, clean wacke (10%). Siltstone bedding is massive but dislocated and broken up. Two small massive pyrite patches present at 31.13 and 31.66. Lower contact is interbedded with graphitic sediment.						
		32.1-42.0: Graphitic Argillite Black to grey laminae interbedded with occasional tan siltstone bed (10-15%). Average thickness of finer argillites is 1-3cm, ranging from 1mm up to 80cm.						
		A very homogeneous section of sediments.						
		32.2-33.1: Bright green patches of unknown composition forms a matrix-like structure in the sediments. It appears to be related to fracturing and						

HOLE No: K97-2

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)
HOLE No.: K97-2

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	ASSAYS		
						WIDTH	Au g/t	ck g/t
		may be caused by hydration - possibly clay mineral development. Forms 20% of this interval.						
		Lower contact of the graphitic interval is interbedded with tan siltstone.						
		42.0-47.9: Siltstone Massively bedded, aphanitic to very finely textured. Light tan to faintly greenish-tan in colour. Occasional paler buff sections from 45.2 to 47.5 exhibiting evidence of strong discoloration from a dark black-grey to a pale buff - remnants of protolith as angular patches in the alteration.						
		44.25-45.0: Local disseminated pyrite 1-3% overall. Main concentration at 44.66 in 3cm section with 10-12% pyrite. Pyrite appears indigenous or remobilized - some in fractures.						
		45.5-46.1: 1-3% disseminated, fine-grained pyrite. Uneven distribution, locally increased concentrations up to 5-8% over 10cm at 45.9.						
		The sediment unit is unaltered and is not veined other than from typical very fine calcite, +/- ankerite, veinlets, <<1% overall.						
		Lower contact is gradational into narrow pyritic zone which appears related to the underlying volcanic as it contains a similar pyritic zone within.						
47.9	52.46	(2MS 2MS fl, loc fbx, mnr loc py) Mafic Volcanic - massive flow	5250	47.90	49.00	1.10	0.04	
		Light to medium buffish-grey - variable hues. Numerous dark green-grey seams and flow related selvages suggesting the unit is quasi-pillowed. The groundmass is fine-grained to very fine-grained and massive. No fabric in the unit. Some brecciation related to flow.	5251	49.00	50.00	1.00	0.07	
		Occasional amygdule-bearing areas - usually filled						

HOLE No: K97-2

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)
HOLE No.: K97-2

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS				
				FROM	TO	WIDTH	Au g/t	ck g/t
		with dark green mineral.						
		1% fine, white, calcite-filled fractures lines. Note small amount of calcite in the fine groundmass.						
		Interflow material pyritic in several locations. Pyrite grains up to 4-4mm. Concentrations range up to 10 and 20% in some places.						
		48.0-48.35: 15-18% coarse disseminated pyrite of subhedral to anhedral shape, fine-grained masses.						
		49.36: irregular 3cm zone with 10% coarse pyrite.						
		49.76-49.96: zone with 10% coarse pyrite over 20cm.						
		All above pyrite intervals are of similar type of occurrence - indigenous pyrite.						
		The unit is quite uniform overall.						
		Lower contact is sharp, diabase chill margin at 40 degrees.						
52.46	79.1	(8U 8U msv,f-mg,wf-glom,mag) Diabase -massive, magnetic Dark green, massive, fine to medium-grained. Moderately magnetic throughout. Rare lime-green feldspar phenocryst/aggregate. This unit becomes relatively coarse-grained compared to previously encountered diabase units. Fine-grained chill margin over last 3-4 meters.						
		Lower contact sharp at 30 degrees.						
79.1	140.45	(2MS 2MS fl,loc fbx,mnr loc py) Mafic to Intermediate Volcanic - massive flow Pale buffish-grey, fine-grained with 3-5% phyruc crystals of various appearance - prominent 1-2mm (1-2%) pale greenish to whitish - very soft (serpentine?) of irregular shape - often embayed,	5252	139.40	140.40	1.00	0.01	

HOLE No: K97-2

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)
HOLE No.: K97-2

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS				
				FROM	TO	WIDTTI	Au g/t	ck g/t
		<p>subangular. With increasing depth these crystal forms become dark green. Second pyritic mineral is <1mm, and black or black-green - suspect they may be related to larger type although colour and size differ.</p> <p>Also present in the groundmass is 3% very fine leucoxene.</p> <p>The unit is massively textured, broken only by dark grey open space fracture/breccia veins - related to flow structure and breakup of the flow material. The rock is very uniform in overall appearance</p> <p>129.3-132.5: Breccia interval Flow-type fragmentation, clasts to 5-6cm, many floating in flow material.</p> <p>Lower contact of the unit is sharp at 90 degrees.</p>						
140.45	141.6	<p>(4U 4C/4CGF/mnr4IFS) Sediments Chert, Graphitic Chert, Bedded Pyrite Sedimentary section of mixed composition. Laminated on .5 to 5cm scale. Black graphitic chert, grey chert and minor massive pyrite laminae (5%). 50% black chert and 45% grey chert beds.</p> <p>Heaviest pyrite occurs at 141.0 where there is 20cm of 10% pyrite laminae, one is 8mm thick.</p> <p>Core angles are 70 degrees.</p> <p>Several conformable carbonate veinlets mixing with the sediments. No significant sulphides associated with them.</p> <p>The section is considered to be unaltered.</p> <p>Lower contact distinct but in volcanic rubble.</p>	5253	140.40	141.60	1.20	0.05	
141.6	161.0	(2VAR 2VAR p,hy,msv)	5254	141.60	142.60	1.00	0.08	

HOLE No: K97-2

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)
HOLE No.: K97-2

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS				
				FROM	TO	WIDTH	Au g/t	ck g/t
		Pillowed, Variolitic Volcanic	5255	142.60	143.60	1.00	0.01	
		Distinctly different from previous volcanic sections in this hole.	5256	143.60	144.60	1.00	0.01	
		Very inhomogeneous in colour and texture due to the variolitic and pillowed nature of the unit.	5257	144.60	145.60	1.00	0.01	
		Colours range from dark black-green of the hyaloclastic, interpillow selvage material to the pale grey and faintly beige grey of the siliceous variolitic areas. Darker mottled green, medium to finer-grained internal volcanic material is also present. Hyaloclastic material is ubiquitous. Nonmagnetic. Epidote-bearing patches up to 4-5cm scattered through section. Homogeneous overall despite appearance. Unaltered, unmineralized, minor calcite veinlets. Minor disseminated pyrite and localized, small massive clots in selvage areas within the first 4-5 meters of the upper contact.	5258	145.60	146.60	1.00	0.01	0.01
	161.0	End of Hole						

Casing pulled
Core boxes: 37, stored at Aunor Minesite, Timmins
Assay samples: 29 (Au)
Township: Knight
NTS: 41P 10/11
UIM: 495574E/5281950N (approx)
Claim: collar on 1221719, eoh on same
Collar Location: 125m E, 145m S of #4 post of 1221719
Location of eoh: 400W/494.34N, elevation -108.03m

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
60.00	-41.50	0.00

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)
 HOLE No.: K97-2

FROM	TO	LITHOLOGICAL DESCRIPTION			SAMPLE No.	FROM	TO	ASSAYS	
								WIDTH	Au g/t
		DEPTH	INCLINATION	BEARING					
		120.00	-41.50	0.00					
		161.00	-41.50	0.00					

GEOLOGY LEGEND

8U Diabase (U=undifferentiated)

7U Felsic to Intermediate Intrusive

- 7G Granite
- 7Gd Granodiorite, Quartz Monzonite
- 7T Tonalite
- 7S Syenite
- 7M Monzonite
- 7FP Feldspar Porphyry
- 7QFP Quartz-Feldspar Porphyry
- 7PA Pegmatite
- 7A Aplite
- 7F Felsite

6U Mafic to Ultramafic Intrusive

- 6D Diorite, Trondhjemite
- 6G Gabbro
- 6A Anorthosite
- 6P Peridotite, Pyroxenite
- 6L Lamprophyre

5U Clastic Sediments

- 5Ar Argillite
- 5ARGF Graphitic Argillite
- 5GW Greywacke
- 5CG Conglomerate
- 5CGT Timiskaming Conglomerate
- 5SS Sandstone
- 5ST Siltstone
- 5Q Quartzite
- 5A Arkose

4U Chemical Sediments

- 4IF Iron Formation
- 4IFS Sulphide Facies
- 4IFC Silicate Facies
- 4IFO Oxide Facies
- 4C Chert
- 4IGF Graphite

3U Felsic to Intermediate Volcanic

- 3R Rhyolite
- 3D Dacite
- 3A Andesite
- 3T Trachyte

2U Mafic Volcanics

- 2MS Massive
- 2P Pillowed
- 2FB Flow Breccia
- 2HY Hyaloclastite
- 2VAR Variolitic
- 2POR Porphyritic
- 2CA Calc-Alkaline
- 2IT Iron Tholeiite
- 2MT Magnesium Tholeiite

1U Ultramafic Volcanic

- 1TC Talc-Chlorite (altered)
- 1GCB Green-Carbonate (altered)
- 1K Komatiite
- 1BK Basaltic Komatiite

ABBREVIATIONS

Texture

- ag, agg agglomerate
- amy amygdaloidal
- FB, fb, fbx flow breccia
- fol foliated
- glom glomerophyric
- gm groundmass
- hy hyaloclastic
- htr heterolithic
- lap lapilli
- ms, msv, mas massive
- p pillowed
- pj polygonal jointing
- por porphyritic
- qt quench texture
- sch schistose
- sfx spinifex
- t tuff, tuffaceous
- tx texture
- tbx, t-bx tuff-breccia
- ves vesicular
- var variolitic
- _phy _phyric

Alteration

- Ab albitization
- Ank ankeritization
- AZ, az alteration zone
- Bi biotite
- Blch bleached
- Cal calcitic
- Carb carbonatization
- Cb carbon
- Chl chloritization
- Ep epidotization
- Fu fuchsite
- Gcb green carbonate/fuchsite
- Gos gosson
- Hem hematization
- Lx leucoxene
- Pot potassic
- Ser sericitization
- Serp serpentinitization
- Sil silicification
- Tc talc
- Tour tourmaline

Mineralization

- Asb asbestose
- Asp arsenopyrite
- Clpy cluster pyrite
- Cpy, Cp chalcopyrite
- Cry crysotile
- Dspy disseminated pyrite
- Gn, Gal galena
- Gf graphite
- Mt magnetite
- Mo molybdenite
- Po pyrrhotite
- Py pyrite
- Sw stockwork
- VG visible gold
- MZ mineralized zone

Veining

- Asbv asbestose
- Av ankerite
- Cv calcite
- Epv epidote
- Hemv hematite
- Mtv magnetite
- Qv quartz
- Qav quartz-ankerite
- Qcv quartz-calcite
- Qtourv quartz-tourmaline
- Tourv tourmaline

Structural

- bd bedded
- bnd banded
- bx breccia
- bxd brecciated
- ct contact
- F, f fault
- FZ, fz fault zone
- flt faulting
- fl flow
- fr fracture
- g gouge
- pj polygonal jointing
- s, sh shear
- SZ, sz shear zone
- slk slickenside

Other

- bld boulder
- ch, cty cherty
- cg coarse-grained
- fg fine-grained
- int intermittent
- loc, l__ local, locally
- mag magnetic
- mg medium-grained
- mnr minor
- mod, m__ moderate
- Ob, Ovb overburden
- pv pervasive
- rub rubble
- sil siliceous
- st, s__ strong
- tect tectonized
- tr trace
- v__ very
- wk, w__ weak

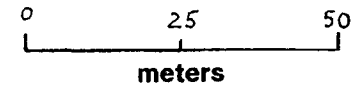
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035 deg

L1221719

Geological Legend:

- Intrusive - Late
 - Diabase
- Intrusive - Early
 - Felsic
 - Mafic to Ultramafic
- Sediments
 - Clastic
 - Chemical
- Volcanics
 - Felsic
 - Intermediate
 - MAFIC VOLCANICS
 - Undifferentiated
 - Massive
 - Variolitic
 - ULTRAMAFIC VOLCANICS
 - Undifferentiated
- ALTERATION
 - Undifferentiated Zone
- MINERALIZATION
 - Undifferentiated Zone



BATTLE MOUNTAIN GOLD

PROJECT: KNIGHT (711060)

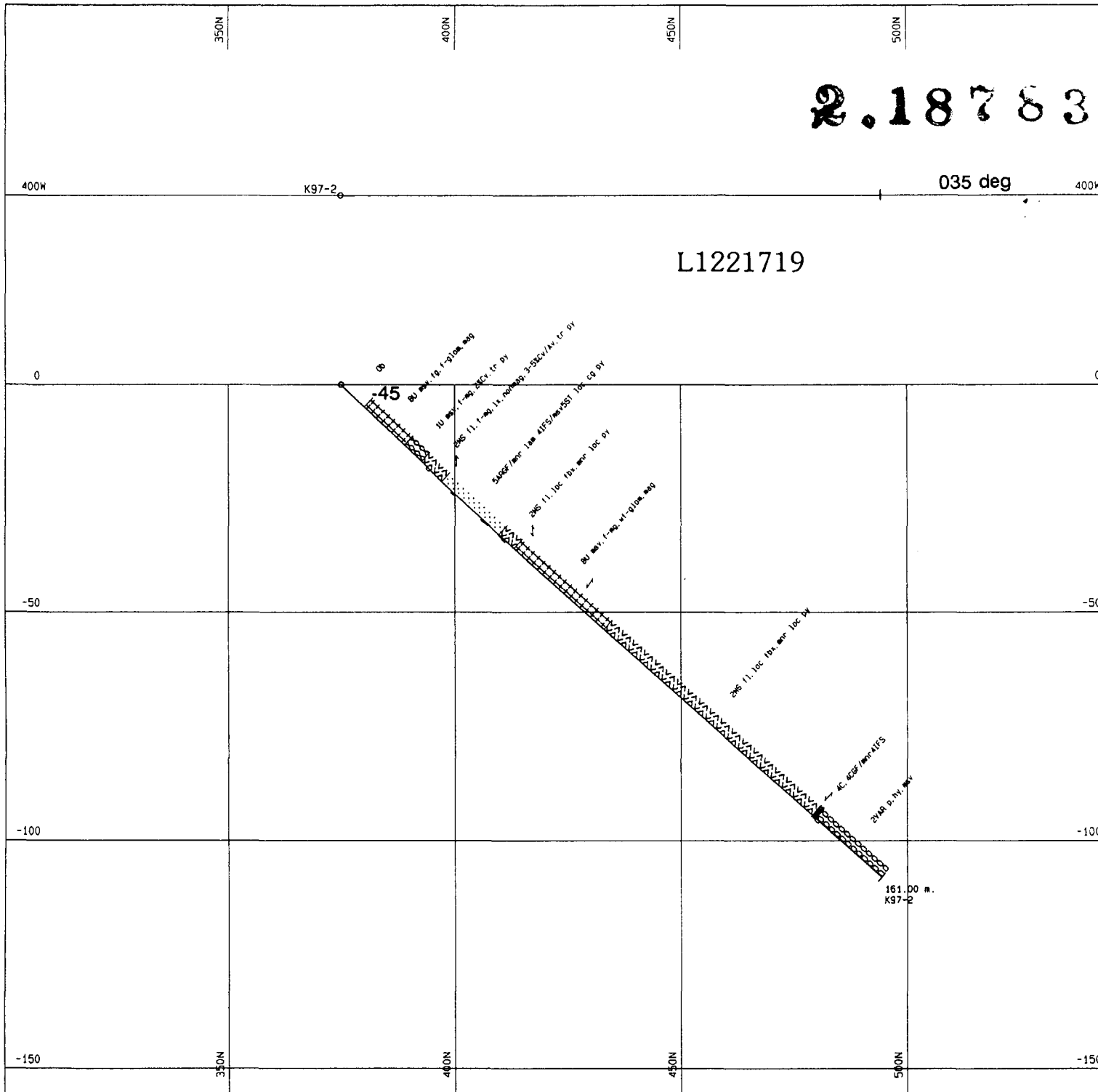
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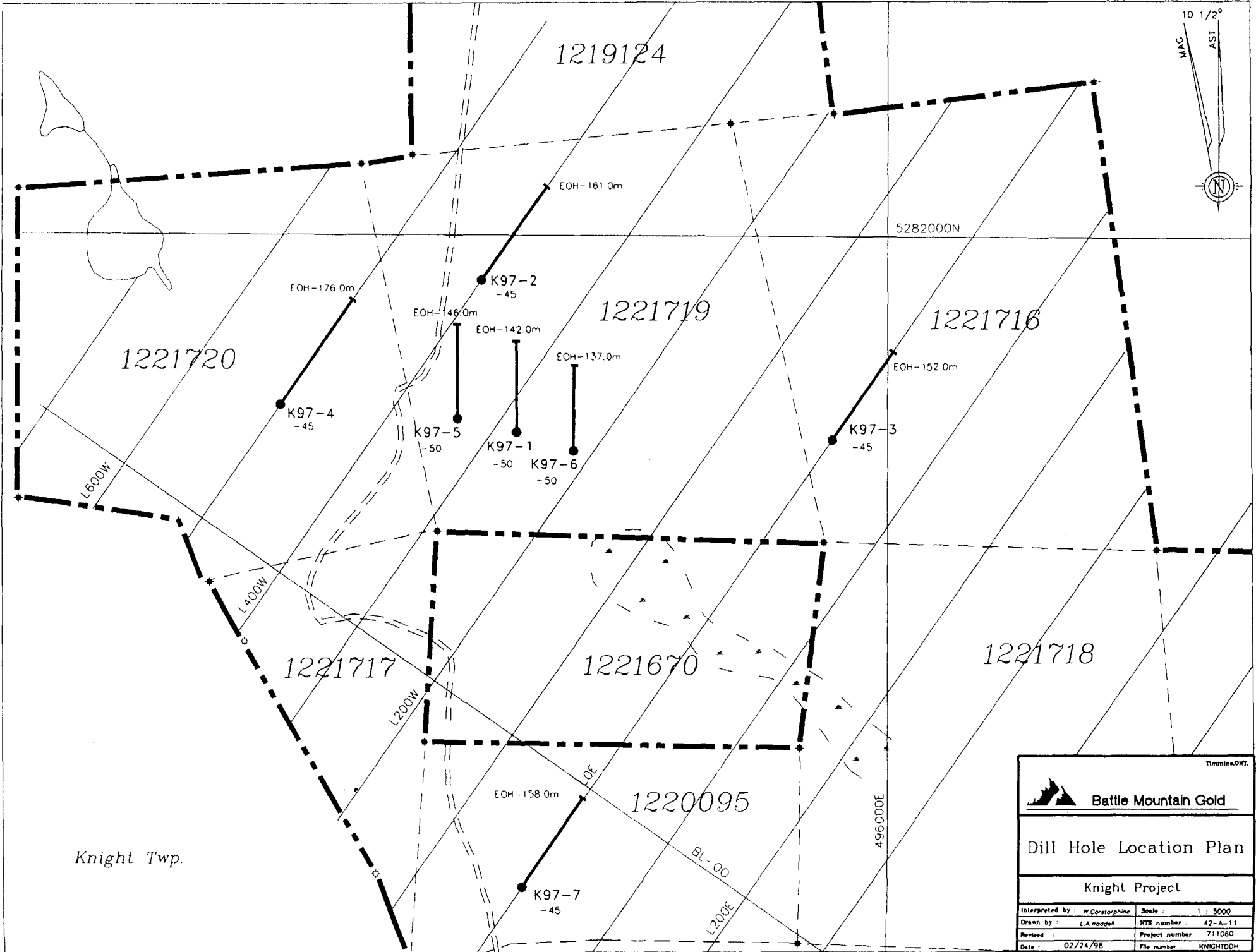
DRILL HOLE: K97-2

ASSAY SCALE: 1cm=2g/t Au

DATE: 98/02/23


SCALE: 1/1200





Knight Twp.

Timmins, ONT.

 **Battle Mountain Gold**

Dill Hole Location Plan

Knight Project

Interpreted by : w.Corselorphine	Scale : 1 : 5000
Drawn by : L.A.Woodell	NTB number : 42-A-11
Revised :	Project number 711060
Date : 02/24/98	File number : KNIGHT0DH

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)

HOLE No.: K97-3

Collar Eastings: 0.00

Collar Northings: 450.00

Collar Elevation: 0.00

Grid: BMG 035 DEG

Claim: 1221716

Collar Inclination: -45.00

Grid Bearing: 0.00

Final Depth: 152.00 metres

Log Completed: 18/11/97

Core: NQ/stored at Aunor Minesite, Timmins

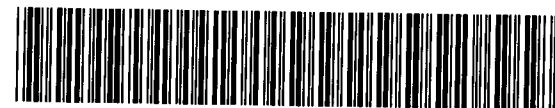
Logged by: W Corstorphine/S McCann

Date: 11/11/97 to 18/11/97

Down-hole Survey: Acid

Contractor: NDS Drilling

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS		
				FROM	TO	WIDITH Au g/t ck g/t
0	11.0	(Ob) Overburden-casing				
11.0	73.9	(1U 1U/6P? msv,serp fr,mag,tr asb) Ultramafic - Peridotite? Dark blackish-green, fine to medium-grained, massive groundmass. Strongly magnetic. Very blocky core return, numerous coarse rubble chips. Bright olive-green serpentine on the numerous fracture surfaces which randomly crisscross the core almost continuously - 1-4mm in thickness. Small crysotile asbestos fibers sometimes in evidence. No immiscibility structures such as spinifex or polygonal jointing. No talcose feel to the cored surface. Uniform throughout section. Lower contact sharp but very irregular - evidence of fragmentation of underlying volcanic and influx of ultramafic into openings for over 20cm.				
73.9	87.3	(2MS 2MS fl,f-mg,nonmag) Mafic Volcanic - massive, homogeneous Grey-green to green-grey, very even textured, fine-grained - groundmass crystals readily discernible - up to 1/2mm. Primarily a greyish colour with slight olive cast. Nonmagnetic. Unaltered, unveined to any significant degree, and unmineralized except for minor chalcopyrite at the upper contact. No flow features or structures, very homogeneous.				



41P11NE2004 2.18783 KNIGHT

030

Wayne Corstorphine

HOLE No: K97-3

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)
HOLE No.: K97-3

Page 2

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS				
				FROM	TO	WIDTH	Au g/t	ck g/t
		Right at upper contact there is a discontinuous 2mm vein-like mass 3-4cm long in a fracture-like selvage.						
		Lower contact in rubble.						
87.3	91.5	(FZ/1U sg, 0.4m sand seam) Fault Zone - in ultramafic Severe tectonic fault structure. Interval is a mix of gouge and fine, blocky rubble.						
		91.0: enter into sand seam, drilled .5m into seam - no return of water, suspend hole 7AM Nov 12/97. Return to hole Nov 17/97 and deepen, no core for .5m - 91.0-91.5.						
91.5	134.9	(1U 1U/6P? msv, serp fr, mag) Ultramafic - Peridotite Dark black to green, massive uniform groundmass is fine-grained and moderately magnetic. Serpentine commonly associated with fractures and narrow <1cm quartz calcite stringers, nil pyrite, lower contact sharp at 60 degrees.						
134.9	152.0	(2MS 2MS/P hy selv, cal frac, loc mag) Massive to Pillowed Mafic Volcanic Pale grey to green-grey, fine-grained massive groundmass, locally strongly magnetic as at 139.5. 5% quartz-calcite stringers usually <2cm width. Calcite fracture filling common and generally displays a bleached alteration halo, quartz filled amygdules up to 5mm diameter throughout the unit. Groundmass is weakly silicified and ankeritized.	5381	134.90	135.90	1.00	0.01	
			5382	135.90	137.00	1.10	0.01	
			5383	137.00	138.50	1.50	0.01	
			5384	143.00	144.50	1.50	0.01	
			5385	144.50	146.00	1.50	0.01	0.01
		Below 146.0 distinct pillow selvages can be observed. Pillows are up to 1.0m in length but average <.5m. Hyaloclastite shards are found within the selvages. Trace pyrite and locally up to 1% chalcopyrite associated with the quartz-calcite stringers and the narrow 5cm breccia zone at 144.3.						

HOLE No: K97-3

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)
 HOLE No.: K97-3

 FROM TO LITHOLOGICAL DESCRIPTION SAMPLE No. FROM TO ASSAYS
 WIDTH Au g/t ck g/t

152.0 End of Hole

Casing left, capped
 Core boxes: 36, stored at Aunor Minesite, Timmins
 Assay samples: 5 (Au)
 Township: Knight
 NTS: 41P 10/11
 UTM: 495925E/5281780N (approx)
 Claim: collar on 1221716, eoh on same
 Collar Location: 10m E, 106m N of #3 post of
 1221716
 Location of eoh: 400W/494.34N, elevation
 -108.03m

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
60.00	-43.50	0.00
120.00	-44.00	0.00

GEOLOGY LEGEND

8U Diabase (U=undifferentiated)

7U Felsic to Intermediate Intrusive

- 7G Granite
- 7Gd Granodiorite, Quartz Monzonite
- 7T Tonalite
- 7S Syenite
- 7M Monzonite
- 7FP Feldspar Porphyry
- 7QFP Quartz-Feldspar Porphyry
- 7PA Pegmatite
- 7A Aplite
- 7F Felsite

6U Mafic to Ultramafic Intrusive

- 6D Diorite, Trondhjemite
- 6G Gabbro
- 6A Anorthosite
- 6P Peridotite, Pyroxenite
- 6L Lamprophyre

5U Clastic Sediments

- 5Ar Argillite
- 5ARGF Graphitic Argillite
- 5GW Greywacke
- 5CG Conglomerate
 - 5CGT Timiskaming Conglomerate
- 5SS Sandstone
- 5ST Siltstone
- 5Q Quartzite
- 5A Arkose

4U Chemical Sediments

- 4IF Iron Formation
 - 4IFS Sulphide Facies
 - 4IFC Silicate Facies
 - 4IFO Oxide Facies
- 4C Chert
- 4IGF Graphite

3U Felsic to Intermediate Volcanic

- 3R Rhyolite
- 3D Dacite
- 3A Andesite
- 3T Trachyte

2U Mafic Volcanics

- 2MS Massive
- 2P Pillowed
- 2FB Flow Breccia
- 2HY Hyaloclastite
- 2VAR Variolitic
- 2POR Porphyritic
- 2CA Calc-Alkaline
- 2IT Iron Tholeiite
- 2MT Magnesium Tholeiite

1U Ultramafic Volcanic

- 1TC Talc-Chlorite (altered)
- 1GCB Green-Carbonate (altered)
- 1K Komatiite
- 1BK Basaltic Komatiite

ABBREVIATIONS

Texture

- ag, agg agglomerate
- amy amygdaloidal
- FB, fb, fbx flow breccia
- fol foliated
- glom glomerophyric
- gm groundmass
- hy hyaloclastic
- htr heterolithic
- lap lapilli
- ms, msv, mas massive
- p pillowed
- pj polygonal jointing
- por porphyritic
- qt quench texture
- sch schistose
- sfx spinifex
- t tuff, tuffaceous
- tx texture
- tbx, t-bx tuff-breccia
- ves vesicular
- var variolitic
- _phy _phyric

Alteration

- Ab albitization
- Ank ankeritization
- AZ, az alteration zone
- Bi biotite
- Blch bleached
- Cal calcitic
- Carb carbonatization
- Cb carbon
- Chl chloritization
- Ep epidotization
- Fu fuchsite
- Gcb green carbonate/fuchsite
- Gos gosson
- Hem hematization
- Lx leucoxene
- Pot potassic
- Ser sericitization
- Serp serpentization
- Sil silicification
- Tc talc
- Tour tourmaline

Mineralization

- Asb asbestose
- Asp arsenopyrite
- Clpy cluster pyrite
- Cpy, Cp chalcopyrite
- Cry crysotile
- Dspy disseminated pyrite
- Gn, Gal galena
- Gf graphite
- Mt magnetite
- Mo molybdenite
- Po pyrrhotite
- Py pyrite
- Sw stockwork
- VG visible gold
- MZ mineralized zone

Veining

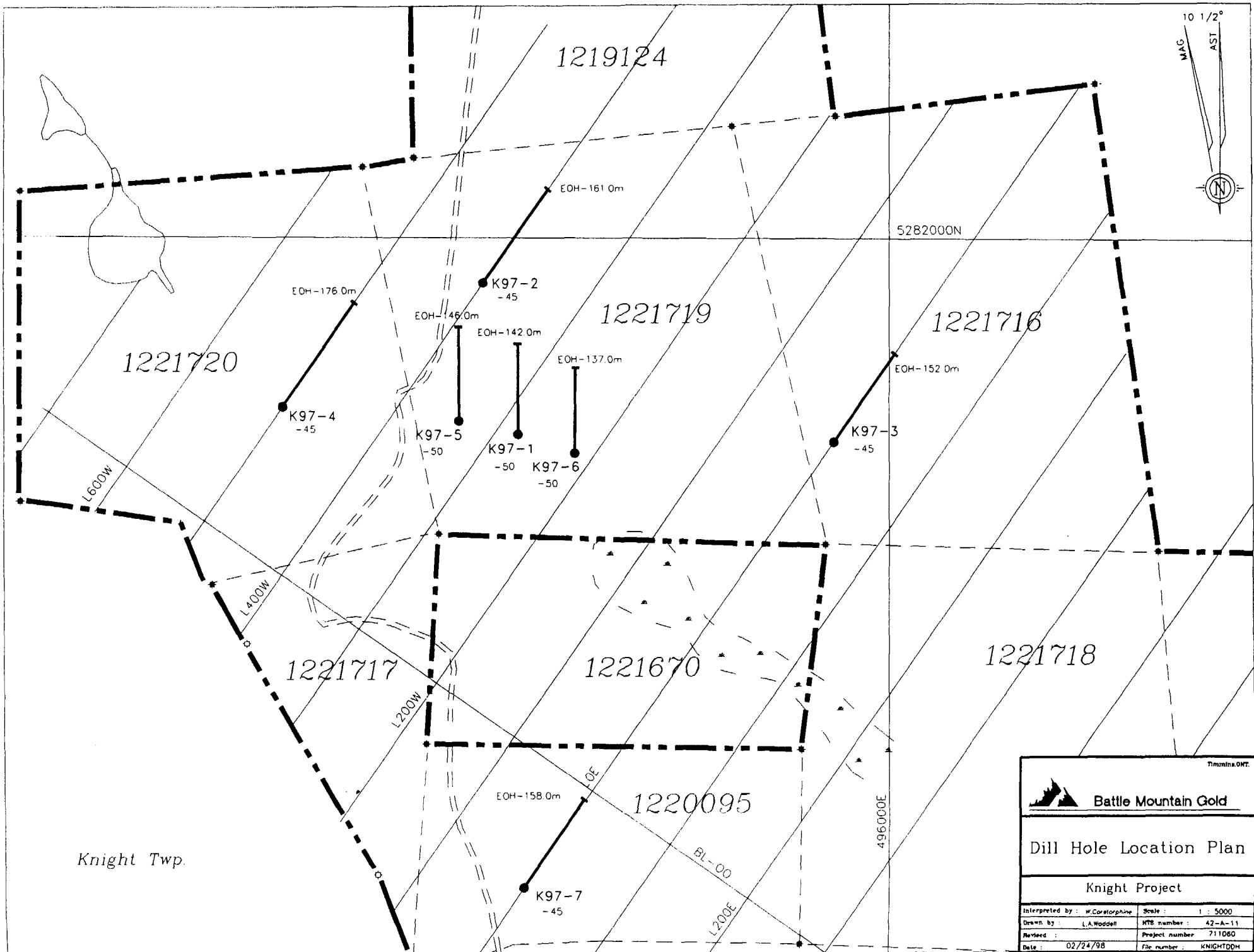
- Asbv asbestose
- Av ankerite
- Cv calcite
- Epv epidote
- Hemv hematite
- Mtv magnetite
- Qv quartz
- Qav quartz-ankerite
- Qcv quartz-calcite
- Qtourv quartz-tourmaline
- Tourv tourmaline

Structural


- bd bedded
- bnd banded
- bx breccia
- bxd brecciated
- ct contact
- F, f fault
- FZ, fz fault zone
- flt faulting
- fl flow
- fr fracture
- g gouge
- pj polygonal jointing
- s, sh shear
- SZ, sz shear zone
- slk slickenside

Other

- bld boulder
- ch, cty cherty
- cg coarse-grained
- fg fine-grained
- int intermittent
- loc, l__ local, locally
- mag magnetic
- mg medium-grained
- mnr minor
- mod, m__ moderate
- Ob, Ovb overburden
- pv pervasive
- rub rubble
- sil siliceous
- st, s__ strong
- tect tectonized
- tr trace
- v__ very
- wk, w__ weak



Tmmms.DWT.


Battle Mountain Gold

Dill Hole Location Plan

Knight Project

Interpreted by : W. Corstorphine	Scale : 1 : 5000
Drawn by : L.A. Woodell	NTS number : 42-A-11
Revised :	Project number : 711060
Date : 02/24/98	File number : KNIGHT004

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)

HOLE No.: K97-4

Collar Eastings: -500.00

Collar Northings: 150.00

Collar Elevation: 0.00

Grid: BMG O35 DEG

Claim: 1221720

Collar Inclination: -45.00

Grid Bearing: 0.00

Final Depth: 176.00 metres

Log Completed: 15/11/97

Core: NQ/stored at Aunor Minesite, Timmins

Logged by: W Corstorphine

Date: 12/11/97 to 14/11/97

Down-hole Survey: Acid

Contractor: NDS Drilling

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	ASSAYS		
						WIDTH	Au g/t	ck g/t
0	5.0	(Ob) Overburden-casing						
5.0	74.8	(2MS 2MS w/v alt-serpophy, 1-2% py) Massive Mafic to Intermediate Volcanic -moderately altered Massive, medium to fine-grained, medium green. The groundmass is weakly to moderately altered. 1-2%, 1-3mm wide calcite veinlets randomly crossing the core at <10cm intervals. 1-2% fine-grained pyrite disseminated in the groundmass. The groundmass texture resembles fine-grained diorite - crystals of feldspar and hornblende easily identified. Pervasive alteration present. Occasional dark blackish-grey seams of random attitude and occurrence - flow structures. Porphyroblastic texture - distinct spotting of trace to 3%, large, 1-3mm, anhedral to subhedral ferromagnesian mineral thought to be serpentine - fairly soft, almost sectile. Similar to porphyroblasts seen in same rock type in nearby holes. There is an increase in their proportion with depth from <1% above 41.0 to 3% below 41.0. 28.5-34.0: blocky core - calcite veining. Low angle, 1cm calcite vein at 33.1m - occupies .8m of core length. At 31.7 there is another similar calcite veinlet extending 1.0m along the core. No significant sulphides observed. Intermittent calcite veinlets and occasional quartz- calcite veinlets every 20-50cm. Many are at low core angles of <45 degrees - many are subparallel to the core axis. Mineralization is limited to a few specks of fine pyrite and fine grains of chalcopyrite as at 56.5m	5260	61.80	62.80	1.00	0.01	
			5261	71.00	72.00	1.00	0.01	
			5262	72.00	73.00	1.00	0.01	
			5263	73.00	74.00	1.00	0.01	



41P11NE2004 2.18783 KNIGHT

040

Wayne Corstorphine

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)
HOLE No.: K97-4

Page 2

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS				
				FROM	TO	WIDTH	Au g/t	ck g/t
		quartz.						
		61.9-62.6: 1-2cm fracture, subparallel to the core axis, medium green to white colour. Carries 5-6% coarse pyrite within the vein.						
		66.2: 5% coarse pyrite in faint volcanic seam 40 degrees to e core axis - no carbonate or quartz material.						
		71.1-74.8: strong fracture-fault zone. Blocky core - broken up, often at low angle.						
		74.8-82.95: serpentized mafic volcanic						
		Lower contact is gradational.						
74.8	80.7	(AZ mAZ/2MS m-spv Ank-sSerp,serpphy,3%lx)	5264	74.00	75.00	1.00	0.01	0.01
		Mafic to Intermediate Volcanic - spotted	5265	75.00	76.00	1.00	0.01	0.01
		Protolith is the same as the unit above - can still recognize pseudomorphed groundmass texture.	5266	76.00	77.00	1.00	0.01	
		Distinct fine to medium-grained, massively textured groundmass of medium to dark greenish-grey colour	5267	77.00	78.00	1.00	0.01	
		- often with beige to light brownish hue. Colour is much paler where pervasive bleaching	5268	78.00	79.00	1.00	0.03	
		(ankeritization) occurs - from 74.8 to 76.4. Pervasive, fine carbonate filaments and small veinlets centering pale alteration halos. There is a buffish cast to most of the interval.	5269	79.00	80.00	1.00	0.07	
		76.4-80.0: strongly serpentized mafic volcanic section - locally it has appearance of an ultramafic. Leucoxene visible at 3% in this particular section. Medium-grained, often irregular, coloured patches of coarse scale - pale brownish-beige areas with dark, phytic-like, 1-2mm grains within them. 3-5% white ankerite veinlets and minor quartz. Only trace amounts of pyrite. The zone is moderately to highly tectonized. Coarse fabric oriented at 75 degrees where distinct. Carbonate-quartz is random but frequently at high core angles of 75 degrees.						

HOLE No: K97-4

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)
HOLE No.: K97-4

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	ASSAYS			
						WIDTH	Au g/t	ck g/t	
		80.0-80.7: flow breccia section. Large 2-6cm, irregularly shaped - embayed in quasi-cuspate fashion, almost crackle-breccia. Tightly supported by black, to grey-black, fine-grained matrix, 5-8% grey-white carbonate as very irregular mm to cm scale patches in the dark matrix - fairly siliceous, minor calcite, possible ankerite. Clasts are fine-grained to aphanitic and massively textured - colour is medium to pale buff-green.							
		Lower contact is indistinct due to the lack of clear contrast. Breccia texture continues until start of the next unit.							
80.7	101.0	(FZ loc sg, 3-8cm bx frag, sSerp-sSer, 5%Cv, tr py) Fault Zone - serpentized volcanic - much gouge Distinctive section due to inhomogeneity and strong tectonized appearance. Numerous intervals up to 10cm of soft gouge debris and sheared rock. 80% of the section is an aphanitic, schistose volcanic of medium beige colour striped by dark serpentine lines <<1mm wide and separated by only slightly larger volcanic intervals - the overall appearance is that of very coarse spinifex texture - very irregular, contorted orientations to this peculiar, coarse, fabric. Overall appearance suggests tight brecciated or dislocated assemblage of fragments. Dark black-green matrix is very soft and serpentine-like. Protolith may be same as 80.0-80.7 - suggestion of flow-breccia structure. Occasional section of 10-30cm that resembles typical fine to medium textured massive volcanic.	5270 5271 5272 5273 5274 5275 5276 5277 5278 5279 5280 5281 5282 5283 5284 5285 5286 5287 5288 5289	80.00 81.00 82.00 83.00 84.00 85.00 86.00 87.00 89.00 90.00 91.00 92.00 93.00 94.00 95.00 96.00 97.00 98.00 99.00 100.00	81.00 82.00 83.00 84.00 85.00 86.00 87.00 89.00 90.00 91.00 92.00 93.00 94.00 95.00 96.00 97.00 98.00 99.00 100.00 101.00	1.00 1.00 1.00 1.00 1.00 1.00 1.00 2.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.06	
		3-5% white carbonate and minor quartz-carbonate veinlets - contorted, irregular to straight, linear across-core types. Most appear to be calcite-bearing.							
		Sulphides are sparse - occasional 5-8% cluster of coarse pyrite crystals as at 90.9 over <10cm.							

HOLE No: K97-4

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)
HOLE No.: K97-4

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS				
				FROM	TO	WIDTH	Au g/t	ck g/t
		Gouge is present intermittently every 2-3m over widths of up to 20cm.						
		Sericitization and serpentine replacement are the principal alteration effects along with moderate quartz-calcite vein formation.						
		94.4-94.7: volcanic dyke Dark blackish green, fine-grained, massive. Sharp upper and lower contacts at 30 degrees. Carries 3% disseminated pyrite. Differs from next dyke, seems more related to the ultramafic. Nonmagnetic.						
		97.4-100.0: volcanic dyke Dark grey aphanitic to fine-grained, massive. Uniform texture. Contains two sections of the altered volcanic it intrudes - 10cm at 97.85, and at 98.55-98.9m. Contacts are in broken core but appears to exhibit sharp, abrupt form.						
		Lower contact of the main unit is indistinct over the last meter - intermixed, rubble etc. 5cm of gouge at 101.0.						
101.0	175.0	(1U 1U/6P? msv, Serp, mag, loc rub) Ultramafic - Peridotite, serpentized Initial 2 meters has spotted texture - pale, subrounded 1-1.5mm grains almost self supporting, matrixed by 50 - 60% dark, blackish, aphanitic groundmass. Gradationally blends into typical black-green serpentized peridotite of medium grain size. Very magnetic, massive, cut by frequent (3%) white to green serpentine filled fractures of variable attitude.	5290 5291	101.00 102.00	102.00 103.00	1.00 1.00	0.01 0.01	
		113.0-118.0: blocky ground, rubble						
		136.4-146.2: same						
		163.0-171.0: same						
		167.0-167.8: strongly foliated, shear at 75 degrees.						

HOLE No: K97-4

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)

HOLE No.: K97-4

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS		
				FROM	TO	WID1H Au g/t ck g/t
		Gouge over last 20cm. Pervasive fine calcite stringers, no sulphides.				
		171.55-172.0: diabase Feldsparphyric dyke. 1-2% lime-green feldspar and feldspar aggregates up to 8mm. Very fine-grained groundmass. Sharp contacts at 60 degrees and 80 degrees (U/L). Nonmagnetic to feebly so.				
		Lower contact is indistinct over 10cm - about 40 degrees.				
175.0	176.0	(2MS 2MS fphy, unalt) Porphyritic Mafic Volcanic - possibly intrusive Medium to dark grey, fine-grained, massive groundmass of feldspar and surrounding hornblende. Feldsparphyric - 1-2mm, subhedral, pale whitish-grey feldspar averaging 1% concentration - scattered in a random manner. No alteration effects at the upper contact.				
	176.0	End of Hole				
		Casing left, capped Core boxes: 43, stored at Aunor Minesite, Timmins Assay samples: 33 (Au) Township: Knight NTS: 41P 10/11 UTM: 495363E/5281820N (approx) Claim: collar on 1221720, eoh on same Collar Location: 90m W, 250m S of #1 post of 1221720 Location of eoh: 500W/277.84N, elevation -120.96m				

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
60.00	-42.50	0.00

HOLE No: K97-4

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)
 HOLE No.: K97-4

FROM	TO	LITHOLOGICAL DESCRIPTION			SAMPLE No.	FROM	TO	ASSAYS	
								WIDTH	Au g/t
		DEPTH	INCLINATION	BEARING					
		120.00	-43.50	0.00					
		176.00	-43.50	0.00					

GEOLOGY LEGEND

8U Diabase (U=undifferentiated)

7U Felsic to Intermediate Intrusive

- 7G Granite
- 7Gd Granodiorite, Quartz Monzonite
- 7T Tonalite
- 7S Syenite
- 7M Monzonite
- 7FP Feldspar Porphyry
- 7QFP Quartz-Feldspar Porphyry
- 7PA Pegmatite
- 7A Aplite
- 7F Felsite

6U Mafic to Ultramafic Intrusive

- 6D Diorite, Trondhjemite
- 6G Gabbro
- 6A Anorthosite
- 6P Peridotite, Pyroxenite
- 6L Lamprophyre

5U Clastic Sediments

- 5Ar Argillite
- 5ARGF Graphitic Argillite
- 5GW Greywacke
- 5CG Conglomerate
- 5CGT Timiskaming Conglomerate
- 5SS Sandstone
- 5ST Siltstone
- 5Q Quartzite
- 5A Arkose

4U Chemical Sediments

- 4IF Iron Formation
- 4IFS Sulphide Facies
- 4IFC Silicate Facies
- 4IFO Oxide Facies
- 4C Chert
- 4IGF Graphite

3U Felsic to Intermediate Volcanic

- 3R Rhyolite
- 3D Dacite
- 3A Andesite
- 3T Trachyte

2U Mafic Volcanics

- 2MS Massive
- 2P Pillowed
- 2FB Flow Breccia
- 2HY Hyaloclastite
- 2VAR Variolitic
- 2POR Porphyritic
- 2CA Calc-Alkaline
- 2IT Iron Tholeiite
- 2MT Magnesium Tholeiite

1U Ultramafic Volcanic

- 1TC Talc-Chlorite (altered)
- 1GCB Green-Carbonate (altered)
- 1K Komatiite
- 1BK Basaltic Komatiite

ABBREVIATIONS

Texture

- ag, agg agglomerate
- amy amygdaloidal
- FB, fb, fbx flow breccia
- fol foliated
- glom glomerophyric
- gm groundmass
- hy hyaloclastic
- htr heterolithic
- lap lapilli
- ms, msv, mas massive
- p pillowed
- pj polygonal jointing
- por porphyritic
- qt quench texture
- sch schistose
- sfx spinifex
- t tuff, tuffaceous
- tx texture
- tbx, t-bx tuff-breccia
- ves vesicular
- var variolitic
- _phy _phyric

Alteration

- Ab albitization
- Ank ankeritization
- AZ, az alteration zone
- Bi biotite
- Blch bleached
- Cal calcitic
- Carb carbonatization
- Cb carbon
- Chl chloritization
- Ep epidotization
- Fu fuchsite
- Gcb green carbonate/fuchsite
- Gos gosson
- Hem hematization
- Lx leucoxene
- Pot potassic
- Ser sericitization
- Serp serpentinitization
- Sil silicification
- Tc talc
- Tour tourmaline

Mineralization

- Asb asbestose
- Asp arsenopyrite
- Cpy cluster pyrite
- Cpy, Cp chalcopyrite
- Cry crysotile
- Dspy disseminated pyrite
- Gn, Gal galena
- Gf graphite
- Mt magnetite
- Mo molybdenite
- Po pyrrhotite
- Py pyrite
- Sw stockwork
- VG visible gold
- MZ mineralized zone

Veining

- Asbv asbestose
- Av ankerite
- Cv calcite
- Epv epidote
- Hemv hematite
- Mtv magnetite
- Qv quartz
- Qav quartz-ankerite
- Qcv quartz-calcite
- Qtourv quartz-tourmaline
- Tourv tourmaline

Structural

- bd bedded
- bnd banded
- bx breccia
- bxd brecciated
- ct contact
- F, f fault
- FZ, fz fault zone
- flt faulting
- fl flow
- fr fracture
- g gouge
- pj polygonal jointing
- s, sh shear
- SZ, sz shear zone
- slk slickenside

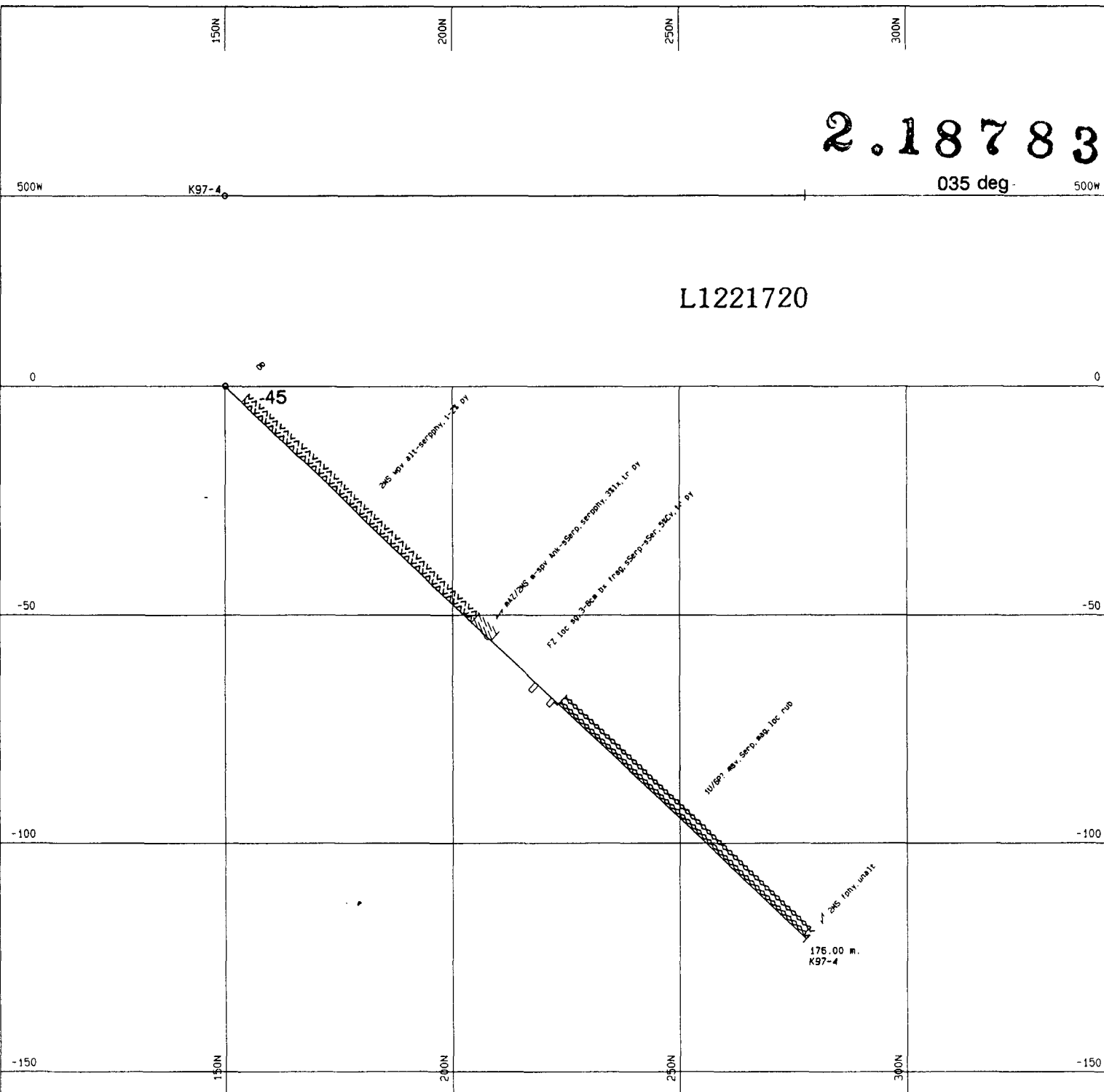
Other

- bld boulder
- ch, cty cherty
- cg coarse-grained
- fg fine-grained
- int intermittent
- loc, l__ local, locally
- mag magnetic
- mg medium-grained
- mnr minor
- mod, m__ moderate
- Ob, Ovb overburden
- pv pervasive
- rub rubble
- sil siliceous
- st, s__ strong
- tect tectonized
- tr trace
- v__ very
- wk, w__ weak

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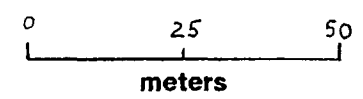
035 deg

L1221720



Geological Legend:

- Intrusive - Late
- Diabase
- Intrusive - Early
- Felsic
- Mafic to Ultramafic
- Sediments
- Clastic
- Chemical
- Volcanics
- Felsic
- Intermediate
- MAFIC VOLCANICS
- Undifferentiated
- Massive
- Varolitic
- ULTRAMAFIC VOLCANICS
- Undifferentiated
- ALTERATION
- Undifferentiated Zone
- MINERALIZATION
- Undifferentiated Zone



BATTLE MOUNTAIN GOLD

PROJECT: KNIGHT (711060)

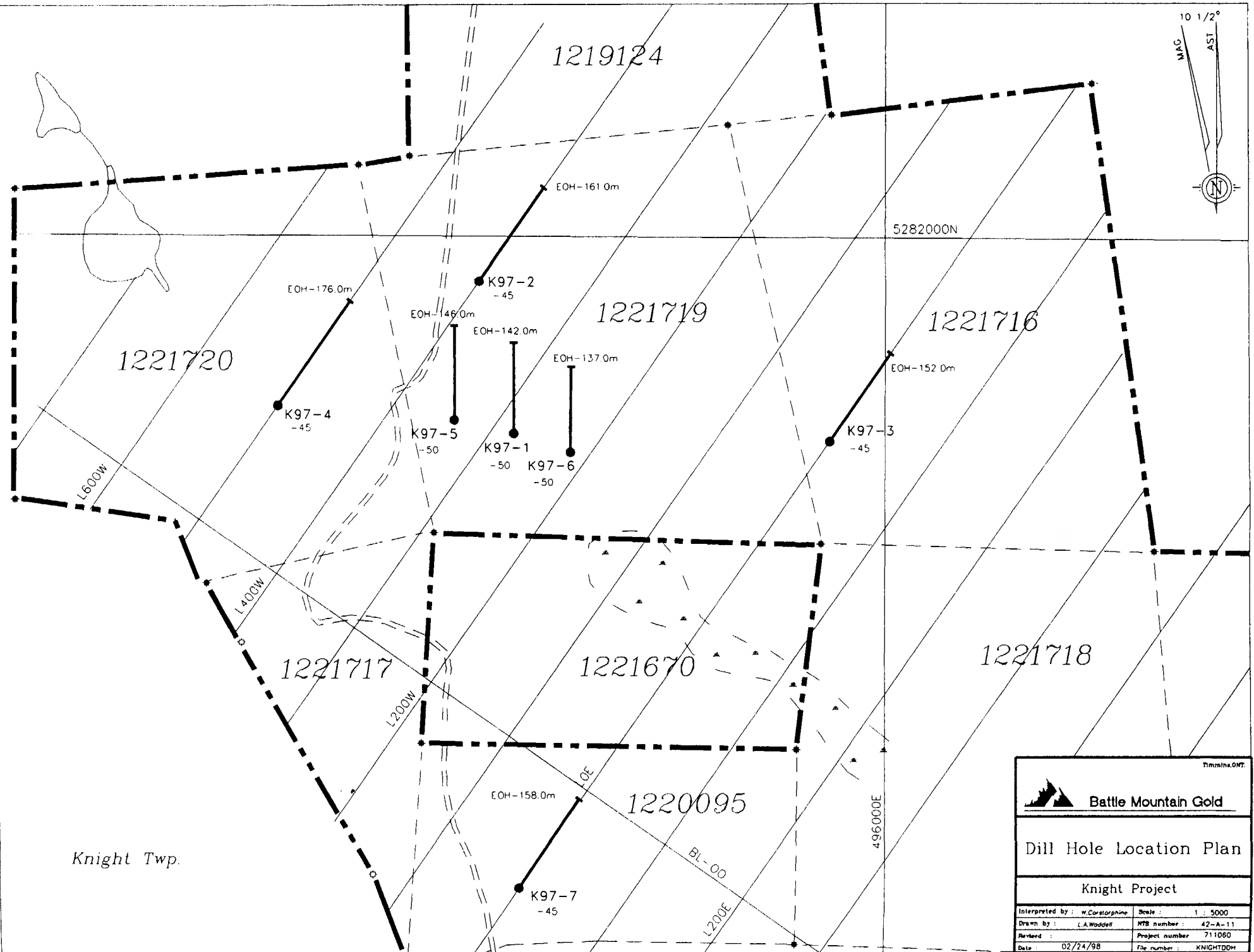
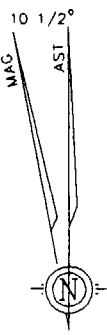
SECTION 500W

DRILL HOLE: K97-4

ASSAY SCALE: 1cm=2g/t Au


DATE: 98/02/23

SCALE: 1/1200



Knight Twp.

Timmins, ONT.



Battle Mountain Gold

Dill Hole Location Plan

Knight Project

Interpreted by :	W. Corstorphine	Scale :	1 : 5000
Drawn by :	L.A. Waddell	NTS number :	42-A-11
Revised :		Project number :	711D80
Date :	02/24/98	File number :	KNIGHTD08

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)

HOLE No.: K97-5

Collar Eastings: -338.00

Collar Northings: 240.00

Collar Elevation: 0.00

Grid: BMG O35 DEG

Claim: 1221719

Collar Inclination: -50.00

Grid Bearing: 325.00

Final Depth: 146.00 metres

Log Completed: 16/11/97

Core: NQ/stored at Aunor Minesite, Timmins

Logged by: W Corstorphine

Date: 14/11/97 to 15/11/97

Down-hole Survey: Acid

Contractor: NDS Drilling

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	ASSAYS		
						WIDTH	Au g/t	ck g/t
0	1.0	(Ob) Overburden-casing						
1.0	25.3	(2MS 2MS fl,f-mg,mpv alt-Serp,1% diss py) Mafic Volcanic - massive, moderately altered Fine to medium-grained, massive, pale greenish-grey to grey-green, dioritic groundmass. Spotted by 1-5% dark green, soft, serpentine pseudomorphs or porphyroblasts <1mm to 2mm in size - evenly distributed through the groundmass. Nonmagnetic. Trace to 1% fine, disseminated pyrite in groundmass. Slight buff cast to the groundmass - very faint. Pervasive, 1-2% white fracture filling calcite vein system - very irregular and most are quite fine - 1-2mm. Low angle fractures are not uncommon. Some with bigger than usual carbonate veins up to 6-7cm as at 1.93m. 1.93: 7cm carbonate vein At 30 degrees. Vein includes 1cm size clasts of blackish, fine-grained ultramafic debris and other rock slivers. 5% fine pyrite disseminated through the vein. 16.4: 6mm veinlet At 25 degrees. Carries 10-20% coarse pyrite in the vein material which is not calcite or quartz but mainly the same material as the host volcanic. Suspect it is a small shear plane. Porphyroblastic volcanic continues to 20.6 after which there is a gradational change into and even textured, coarser grained alteration phase - recrystallized texture? This coarser groundmass has local concentrations of disseminated pyrite up to 3%.	5293	1.40	2.40	1.00	0.01	
			5294	15.90	16.90	1.00	0.01	
			5295	16.90	18.00	1.10	0.01	
			5296	18.00	19.00	1.00	0.01	
			5297	19.00	20.00	1.00	0.01	
			5298	20.00	21.00	1.00	0.05	0.01
			5299	21.00	22.00	1.00	0.01	
			5300	22.00	23.00	1.00	0.01	0.01
			5301	23.00	24.00	1.00	0.01	
			5302	24.00	25.30	1.30	0.01	



41P11NE2004 2.18783 KNIGHT

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Wayne Corstorphine

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)
HOLE No.: K97-5

Page 2

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	ASSAYS		
						WIDTH	Au g/t	ck g/t
		The unit's colour acquires a deeper beige hue. With increased depth a poppyseed texture develops, as at 23.2m. These small, subangular, dark green (serpentine) grains make up 50% of the groundmass and are surrounded by paler green groundmass material.						
		23.25 25.3 (2U 2U/dyke zone,msv,vfg)						
		23.25-23.67: volcanic dyke Dark grey-green, very fine-grained. Fine white calcite grains fleck the marginal areas of the dyke. Contacts are sharp at 55 and 75 degrees (U/L).						
		24.06-24.28: volcanic dyke Sharp contacts at 55 and 75 degrees (U/L). Similar to 23.25. A coarse, faint variolitic texture is discernible.						
		24.9-25.3: volcanic dyke Similar to 23.25 and 24.06. Much darker than the host volcanic - dark grey-green. Subtle coarse texture to groundmass. Sharp contacts at 75-85 degrees. The section is blocky.						
		Intervening volcanic to the above dykes is the poppyseed-like, altered intermediate to mafic volcanic.						
		Lower contact is abrupt as it corresponds to the lower contact of the last volcanic dyke.						
25.3	42.9	(AZ mAZ/2MS w-mAnk-wSer?,5-8%Av-Qav) Alteration Zone - mafic volcanic	5303	25.30	26.00	0.70	0.01	
		Medium grey to buffish grey and greenish buff-grey. Some darker areas with faint brownish cast.	5304	26.00	27.00	1.00	0.08	
		5-8% irregularly spaced and oriented ankerite and quartz-ankerite veinlets from <1mm to 5cm in width.	5305	27.00	28.00	1.00	0.01	
		Veinlet concentration is relatively tightly spaced,	5306	28.00	29.00	1.00	0.01	
			5307	29.00	30.00	1.00	0.01	
			5308	30.00	31.00	1.00	0.01	
			5309	31.00	32.00	1.00	0.01	

HOLE No: K97-5

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)

HOLE No.: K97-5

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS				
				FROM	TO	WIDTH	Au g/t	ck g/t
		tending to permeate the section, but because of their fine dimensions only constitute <10% of the interval.	5310	32.00	33.00	1.00	0.32	0.36
			5311	33.00	34.00	1.00	0.01	
			5312	34.00	35.00	1.00	0.22	
		The protolith appears to be the dioritic volcanic as relict textures are still discernible. As carbonate replacement in the groundmass is increased the relict textures vanish and coarser grained, crude foliated fabric develops. There is also evidence of fragmentation or brecciation in some places as at 32.3.	5313	35.00	36.00	1.00	0.01	
			5314	36.00	37.00	1.00	0.11	
			5315	37.00	38.00	1.00	0.01	
			5316	38.00	39.00	1.00	0.11	
			5317	39.00	40.00	1.00	0.01	
			5318	40.00	41.00	1.00	0.01	
			5319	41.00	42.00	1.00	0.01	
			5320	42.00	42.90	0.90	0.01	
		Fine-grained pyrite is present but is sparse overall. Speck of chalcopyrite also seen. Estimate trace to 2% pyrite locally over various widths. Slight increase in concentration near some veinlets.						
		There is an overall sameness to the altered and the veined sections - strongest replacement is from about 29.0 to 36.2 meters.						
	29.0 34.4	(AZ sAZ/2MS sAnk, tr-1% py) Stronger section of ankerite alteration with up to 1% disseminated pyrite.						
	34.4 36.2	(AZ sAZ/2MS sAnk, 15% Agv) 10-15% heavy white ankerite and quartz-ankerite veining. Very irregular contorted appearance - between 45 and 90 degrees to the core axis.						
	36.2 42.9	(AZ mAZ/2MS w-mAnk, lx loc) Less altered massive volcanic. Medium textured protolith recognizable. Local breccia fragments of the medium-grained volcanic matrix by lighter grey, siliceous ankerite material - e.g. 38.7-39.3. Local evidence of fine leucoxene.						
		Within 1.0 meters of the ultramafic there is a coarsening of the volcanic groundmass and an increase in the degree of alteration. Leucoxene is prominent closer to the ultramafic and is in evidence throughout the section in many places.						

HOLE No: K97-5

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)
HOLE No.: K97-5

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FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	ASSAYS			
						WIDTH	Au g/t	ck g/t	
		Lower contact is sharply defined at 25 degrees.							
42.9	48.7	(1U 1U msh,w-mAnk-Av,nil-tr py)	5321	42.90	44.00	1.10	0.01		
		Ultramafic - moderately sheared, ankerite veined	5322	44.00	45.00	1.00	0.05		
		Strong shear fabric from 42.9 to 45.9 at 60-80	5323	45.00	46.00	1.00	0.01		
		degrees. 10-15% fine carbonate stringers and local	5324	46.00	47.00	1.00	0.01		
		pervasive flooding by replacement carbonate.	5325	47.00	48.00	1.00	0.09		
		Weak to moderate sericitization giving weak yellow-							
		brown hue to the rock (minor amounts overall).							
		At 45.8 there is 3cm of black graphitic material in							
		two small bands.							
		Occasional patch up to 15cm of medium-grained							
		massive volcanic assumed to be a fragment as at 45.5.							
		Pyrite is sparse - nil to trace amounts.							
		The ultramafic after 45.8 is dark blackish green,							
		distinctly medium-grained and massive. It is							
		magnetic, soft, and cut by 5% ankerite stringers.							
		There is nil to trace pyrite.							
		Lower contact is sheared, altered and a little more							
		heavily veined with ankerite at 80 degrees.							
48.7	56.1	(2MS 2MS fl,mg,loc slx,wSerp,1-2%Av-Aqv)	5326	48.00	49.00	1.00	0.01		
		Mafic to Intermediate Volcanic - moderately altered	5327	49.00	50.00	1.00	0.01		
		Medium greenish grey, massive, medium-grained -	5328	50.00	51.00	1.00	0.01		
		diorite-like texture. Locally heavy leucoxene (3%).	5329	51.00	52.00	1.00	0.05		
		Initial 4.0m has only weakly altered groundmass.	5330	52.00	53.00	1.00	0.07		
		At 52.8 the groundmass darkens as a shear zone at	5331	53.00	54.00	1.00	0.14		
		56.1 is approached. Slight serpentinization develops	5332	54.00	55.00	1.00	0.01	0.01	
		into stronger replacement and in places a poppyseed	5333	55.00	56.00	1.00	0.08		
		texture is approached as at 55.5.							
		Modest ankerite and quartz-ankerite veinlet formation							
		of 1-2%, a heavier concentration occurs at 50.4 over							
		.4m. Vein orientations are variable, several are at low							
		core angles as at 50.5, 51.7, and 53.9. These are							
		very small veins.							
		Lower contact is within shear zone but is relatively							

HOLE No: K97-5

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)
HOLE No.: K97-5

Page 5

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS				
				FROM	TO	WIDTH	Au g/t	ck g/t
		well defined over short gradation.						
56.1	58.6	(AZ mAZ/2MS mSZ w-mSer-wAnk,1-2%Av, tr py) Shear Zone - moderate intensity, alteration zone colour similar to unit above the shearing - same protolith. Medium greenish grey colour, slight brownish cast locally.	5334	56.00	57.00	1.00	0.09	
			5335	57.00	58.00	1.00	0.01	
			5336	58.00	58.60	0.60	0.16	
		Strong shear fabric averaging 60 degrees.						
		Protolith texture tends to be homogenized in strong stress areas. Some preserved areas - leucoxene evident.						
		58.4: short section of 10cm displaying the quasi spinifex seen in hole K97-4.						
		Ankerite and quartz-ankerite vein development is weak - 1-2%. Sulphides are sparse to nil.						
		Lower contact is sharp at 90 degrees.						
58.6	61.1	(2U 2U/dyke vfg,msv,1-2%vfg py) Mafic Volcanic Dyke Aphanitic to fine-grained, suggestion of being weakly porphyritic with 1-2mm pale feldspar in places. Medium greenish grey colour. Massive. There is some inhomogeneity in the overall texture.	5337	58.60	59.60	1.00	1.04	
			5338	59.60	61.10	1.50	0.11	
		Carries 1-2% very fine pyrite.						
		58.9-59.25: 5-8% irregular patches of white quartz - cloudy type, 3-5% fine pyrite associated with some veinlets.						
		Lower contact is sharp at 90 degrees.						
61.1	64.5	(AZ mAZ/2MS mSZ,w-mSer-mAnk-mSerp,2%Av) Shear Zone - moderate intensity, alteration zone Continuation of 56.1-58.6 shear-alteration zone. Greenish grey, foliated to schistose material and	5339	61.10	62.10	1.00	0.15	
			5340	62.10	63.00	0.90	0.82	
			5341	63.00	64.00	1.00	1.00	

HOLE No: K97-5

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)
 HOLE No.: K97-5

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS				
				FROM	TO	WIDTH	Au g/t	ck g/t
		massively textured, moderately altered volcanic. Alteration is a mix of sericitization and serpentization with moderate, pervasive replacement, and veinlet ankerite and minor quartz - the veining is weak as it was in the 56.1-58.6 interval.						
		63.0: site of a contact or line of alteration below which the rock is intensely altered to a lighter grey colour - silicified. Quartz vein runs subparallel for short distance. Minor pyrite is present.						
		61.6-61.8: volcanic dyke, similar to 58.6						
		62.1-62.4: volcanic dyke Similar to 58.6. Sharp contacts, upper at 50 degrees.						
		63.3-63.5: ultramafic dyke						
		Moderate shear and tectonization continues to 64.5 where a 25cm gouge is located.						
64.5	69.65	(2MS 2MS/1U? msv,mg,Serp,10%Serp-Ank seams)	5342	64.00	65.00	1.00	0.33	
		Serpentinized Mafic Volcanic	5343	65.00	66.00	1.00	0.01	0.01
		Possibly ultramafic protolith rather than intensely serpentized mafic volcanic.	5344	66.00	67.00	1.00	0.01	
		Tightly structured, medium-grained, massively textured, greenish grey rock, matrixed by 10% dark, serpentine and ankerite-veined selvages.	5345	67.00	68.00	1.00	0.01	
		No significant sulphides noted.	5346	68.00	69.00	1.00	0.07	
		Lower contact is indistinct - marked by disappearance of the medium-grained texture.						
69.65	112.0	(1U 1U/6P? msv,mg,mag,Serp) Ultramafic - peridotite? Black-green, massive, laced by whitish to greenish serpentine fractures 5%. Magnetic. Last meter is pale green serpentine with much gouge and rubble.	5347	69.00	70.00	1.00	0.01	

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)
HOLE No.: K97-5

Page 7

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS				
				FROM	TO	WIDTH	Au g/t	ck g/t
		Lower contact discernible - sharp at 50 degrees. Red hematite scattered on some fractures near and at the contact.						
112.0	122.4	(7U 7FP msv,f-mg,3-5%fphen) Feldspar Porphyry Fine to medium-grained groundmass of medium grey to faintly reddish grey colour. 3-5% white, anhedral to subhedral feldspar phenocrysts up to 2mm in size, average is 1-1.5mm. Occasional dark patch - possible fragments. Nonpyritic - no sulphides present in the groundmass. No veining of any type. No alteration						
		Lower contact is distinct at 15-20 degrees.						
122.4	123.1	(2U 2U/dyke fg,msv) Mafic Volcanic Dyke Dark green-grey, fine-grained, massive. Pervasive tectonization - many fracture lines. Similar to other volcanic dykes in the hole. Unmineralized, no veining or alteration.						
		Lower contact is about 60 degrees, in rubbly core.						
123.1	146.0	(1U 1U msv,mg,mag,Serp) Ultramafic - serpentinized Massive, dark blackish green, medium-grained. Serpentine-lined fractures throughout, local rubble and broken core. Uniform, homogeneous section. No alteration or mineralization. Magnetic throughout.						
		146.0 End of Hole						
		Casing left, capped Core boxes: 36, stored at Anor Minesite, Timmins Assay samples: 55 (Au) Township: Knight NTS: 41P 10/11						

HOLE No: K97-5

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)
 HOLE No.: K97-5

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	ASSAYS		
						WIDTH	Au g/t	ck g/t

UTM: 495550E/5281800N (approx)
 Claim: collar on 1221719, eoh on same
 Collar Location: 114m N, 17m E of #3 post of
 1221719
 Location of eoh: 394.48W/320.66N, elevation
 -107.79m

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
60.00	-46.00	325.00
120.00	-48.00	325.00
146.00	-48.00	325.00

GEOLOGY LEGEND

- 8U Diabase (U=undifferentiated)
- 7U Felsic to Intermediate Intrusive
 - 7G Granite
 - 7Gd Granodiorite, Quartz Monzonite
 - 7T Tonalite
 - 7S Syenite
 - 7M Monzonite
 - 7FP Feldspar Porphyry
 - 7QFP Quartz-Feldspar Porphyry
 - 7PA Pegmatite
 - 7A Aplite
 - 7F Felsite
- 6U Mafic to Ultramafic Intrusive
 - 6D Diorite, Trondhjemite
 - 6G Gabbro
 - 6A Anorthosite
 - 6P Peridotite, Pyroxenite
 - 6L Lamprophyre
- 5U Clastic Sediments
 - 5Ar Argillite
 - 5ARGF Graphitic Argillite
 - 5GW Greywacke
 - 5CG Conglomerate
 - 5CGT Timiskaming Conglomerate
 - 5SS Sandstone
 - 5ST Siltstone
 - 5Q Quartzite
 - 5A Arkose
- 4U Chemical Sediments
 - 4IF Iron Formation
 - 4IFS Sulphide Facies
 - 4IFC Silicate Facies
 - 4IFO Oxide Facies
 - 4C Chert
 - 4IGF Graphite
- 3U Felsic to Intermediate Volcanic
 - 3R Rhyolite
 - 3D Dacite
 - 3A Andesite
 - 3T Trachyte
- 2U Mafic Volcanics
 - 2MS Massive
 - 2P Pillowed
 - 2FB Flow Breccia
 - 2HY Hyaloclastite
 - 2VAR Variolitic
 - 2POR Porphyritic
 - 2CA Calc-Alkaline
 - 2IT Iron Tholeiite
 - 2MT Magnesium Tholeiite
- 1U Ultramafic Volcanic
 - 1TC Talc-Chlorite (altered)
 - 1GCB Green-Carbonate (altered)
 - 1K Komatiite
 - 1BK Basaltic Komatiite

ABBREVIATIONS

Texture

- ag, agg agglomerate
- amy amygdaloidal
- FB, fb, fbx flow breccia
- fol foliated
- glom glomerophyric
- gm groundmass
- hy hyaloclastic
- htr heterolithic
- lap lapilli
- ms, msv, mas massive
- p pillowed
- pj polygonal jointing
- por porphyritic
- qt quench texture
- sch schistose
- sfx spinifex
- t tuff, tuffaceous
- tx texture
- tbx, t-bx tuff-breccia
- ves vesicular
- var variolitic
- _phy _phyric

Alteration

- Ab albitization
- Ank ankeritization
- AZ, az alteration zone
- Bi biotite
- Blech bleached
- Cal calcitic
- Carb carbonatization
- Cb carbon
- Chl chloritization
- Ep epidotization
- Fu fuchsite
- Gcb green carbonate/fuchsite
- Gos gosson
- Hem hematization
- Lx leucoxene
- Pot potassic
- Ser sericitization
- Serp serpentization
- Sil silicification
- Tc talc
- Tour tourmaline

Mineralization

- Asb asbestose
- Asp arsenopyrite
- Clpy cluster pyrite
- Cpy, Cp chalcopyrite
- Cry crysotile
- Dspy disseminated pyrite
- Gn, Gal galena
- Gf graphite
- Mt magnetite
- Mo molybdenite
- Po pyrrhotite
- Py pyrite
- Sw stockwork
- VG visible gold
- MZ mineralized zone

Veining

- Asbv asbestose
- Av ankerite
- Cv calcite
- Epv epidote
- Hemv hematite
- Mtv magnetite
- Qv quartz
- Qav quartz-ankerite
- Qcv quartz-calcite
- Qtourv quartz-tourmaline
- Tourv tourmaline

Structural

- bd bedded
- bnd banded
- bx breccia
- bx d brecciated
- ct contact
- F, f fault
- FZ, fz fault zone
- flt faulting
- fl flow
- fr fracture
- g gouge
- pj polygonal jointing
- s, sh shear
- SZ, sz shear zone
- slk slickenside

Other

- bld boulder
- ch, cty cherty
- cg coarse-grained
- fg fine-grained
- int intermittent
- loc, l__ local, locally
- mag magnetic
- mg medium-grained
- mnr minor
- mod, m__ moderate
- Ob, Ov b overburden
- pv pervasive
- rub rubble
- sil siliceous
- st, s__ strong
- tect tectonized
- tr trace
- v__ very
- wk, w__ weak

2.18783

Az 360 deg

035 deg

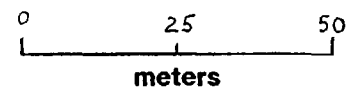
L1221719

K97-5

146.00 n.
K97-5

Geological Legend:

- Intrusive - Late
- Diabase
- Intrusive - Early
- Felsic
- Mafic to Ultramafic
- Sediments
- Clastic
- Chemical
- Volcanics
- Felsic
- Intermediate
- MAFIC VOLCANICS
- Undifferentiated
- Massive
- Variolitic
- ULTRAMAFIC VOLCANICS
- Undifferentiated
- ALTERATION
- Undifferentiated Zone
- MINERALIZATION
- Undifferentiated Zone



BATTLE MOUNTAIN GOLD

PROJECT: KNIGHT (711060)

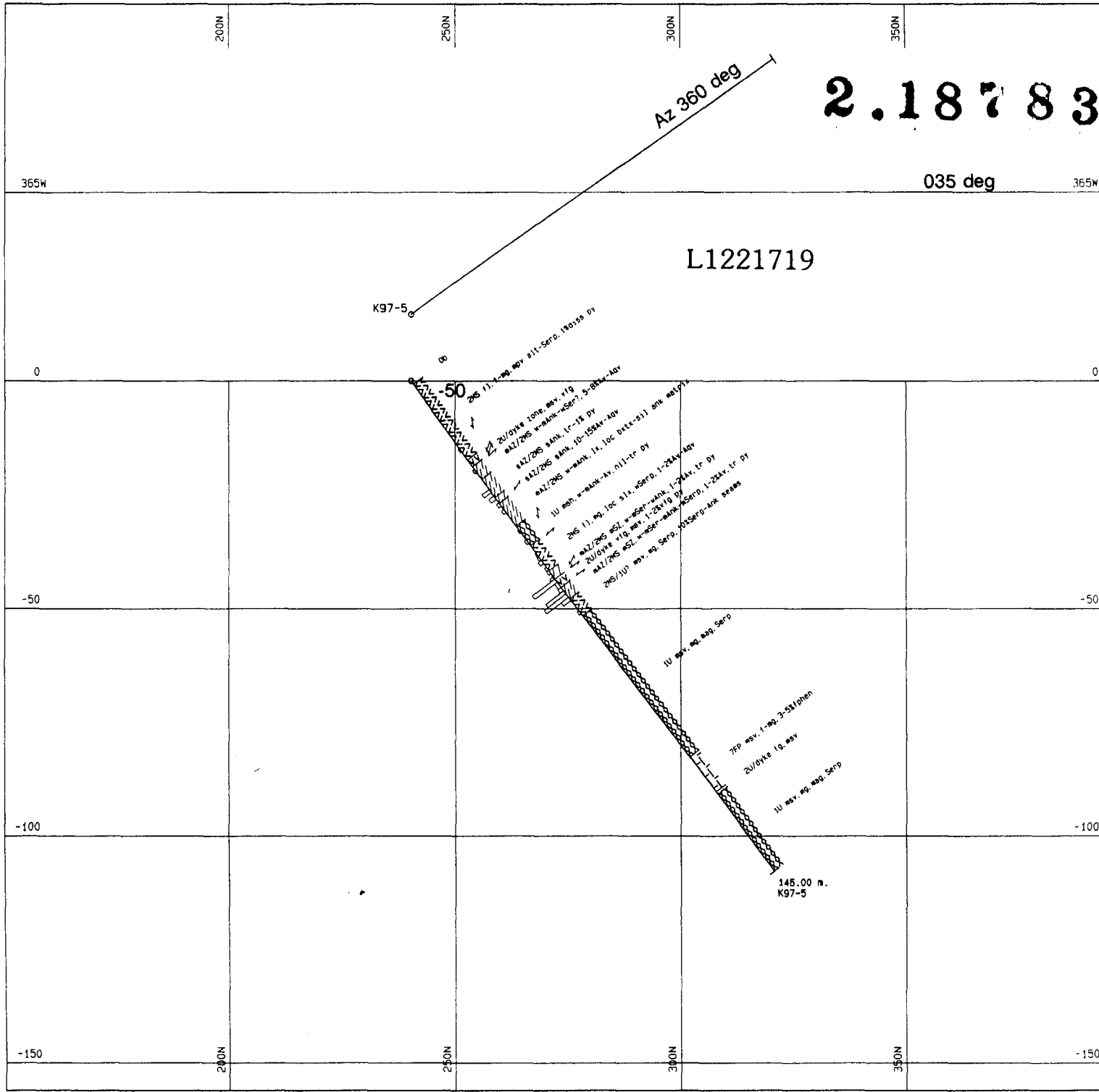
SECTION 365W

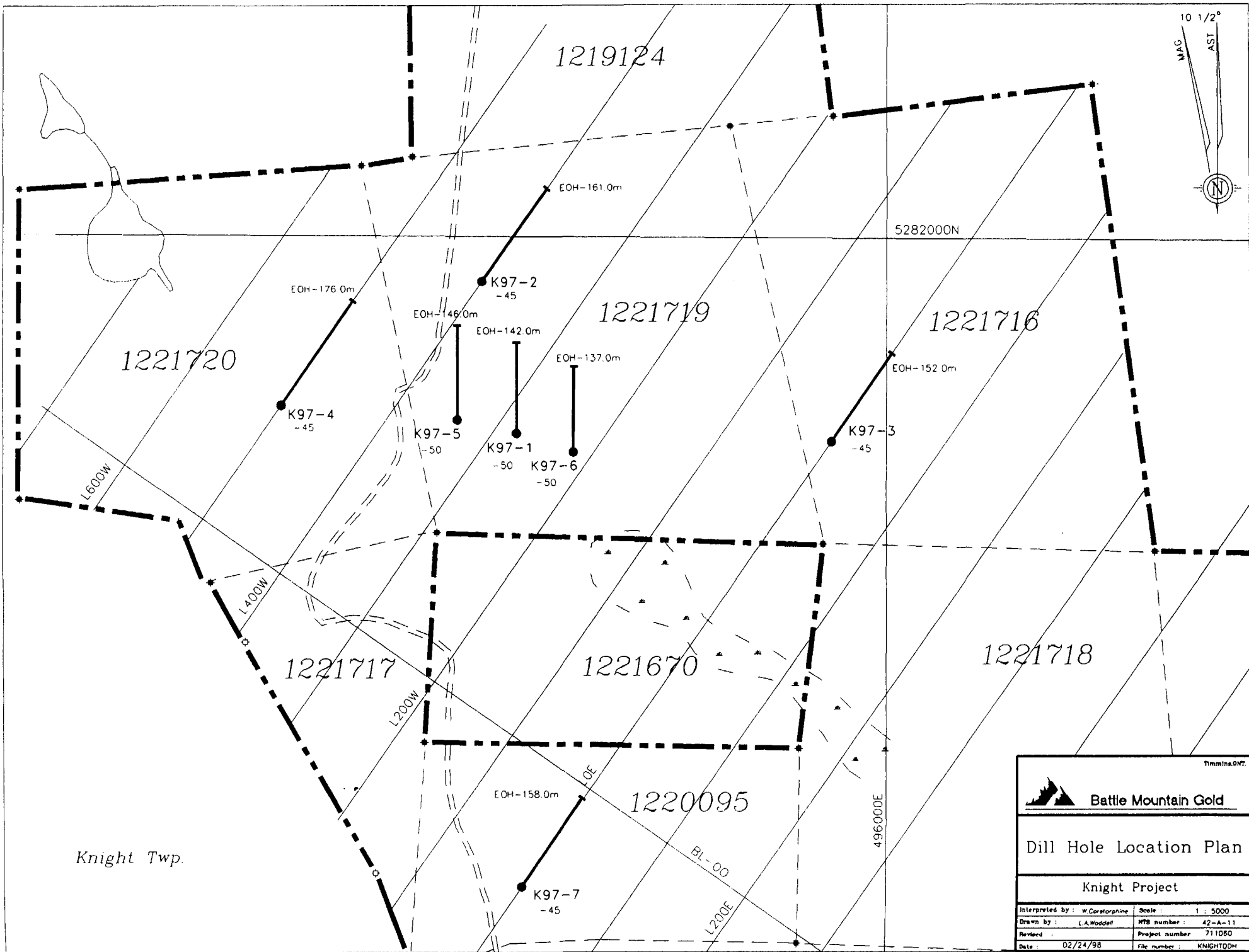
DRILL HOLE: K97-5

ASSAY SCALE: 1cm=2g/t Au

DATE: 98/02/23

SCALE: 1/1200





Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)

HOLE No.: K97-6

Collar Eastings: -218.00

Collar Northings: 283.00

Collar Elevation: 0.00

Grid: BMG 035 DEG

Claim: 1221719

Collar Inclination: -50.00

Grid Bearing: 325.00

Final Depth: 137.00 metres

Log Completed: 18/11/97

Core: NQ/stored at Aunor Minesite, Timmins

Logged by: S McCann/W Corstorphine

Date: 16/11/97 to 17/11/97

Down-hole Survey: Acid

Contractor: NDS Drilling

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS				
				FROM	TO	WIDTH	Au g/t	ck g/t
0	2.0	(Ob) Overburden-casing						
2.0	12.8	(2MS 2MS fl,fg,mpv Serp) Mafic to Intermediate Volcanic - altered Fine-grained, massive, evenly textured groundmass of medium green to grey-green colour. Heavily spotted by darker green porphyroblasts of soft, serpentine-like character - estimate 5-8% with an average size of 1mm. Homogeneous unit but with slight colour change toward lower contact - darkens, increased serpentinization, softer. No significant veining or mineralization. Alteration restricted to serpentinization by nearby ultramafic. No primary sulphides in the groundmass. Lower contact is indistinct due to the lack of contrast but appears to be at 50 degrees.						
12.8	23.6	(1U 1U/6P? mg,msv,mag) Ultramafic - peridotite? Dark blackish green, medium-grained, massively textured groundmass. Spotted texture - pale, 1-2mm, rounded grains, almost self supporting, matrixed by dark green groundmass. This texture continues throughout the section. 18.0-23.3: 5-7% coarse ankerite veining Irregular forms, average width 1-2cm, some local clustering of the veins. No associated sulphides. Serpentine lined fractures common at 3%. Lower contact is indistinct.						



41P11NE2004

2.18783

KNIGHT

060

Wayne Corstorphine

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)

HOLE No.: K97-6

Page 3

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS				
				FROM	TO	WIDTH	Au g/t	ck g/t
		soft and may be an altered ultramafic. 10% quartz-ankerite stringers <2cm in width usually have dark alteration haloes associated with their contacts.						
		60.4-5-62.4: mafic volcanic dyke As descried above, includes 40cm of altered mafic volcanic between 61.4 and 62.4. Sharp lower contact at 70 degrees.						
66.5	90.1	(1U 1U/6P? f-mg,serp fr,mag) Ultramafic - peridotite? Pale grey to dark green/black, fine to medium-grained, locally soft and soapy to the touch. Local blocky intervals with rubbly core and occasional seams. 10% quartz-ankerite stringers and fracture fillings, moderate pervasive ankerite alteration. Trace pyrite.	5379	66.50	68.00	1.50	0.06	
			5380	68.00	69.50	1.50	0.06	
		66.5-67.8: blocky interval includes 80cm of lost core due to seam, local weak shearing.						
		67.8-73.6: grey colour, not as soft as dark green intervals. Represents well altered/recrystallized phase of the ultramafic, gradational contacts, locally strongly magnetic.						
		76.4-81.0: as above						
		89.8-90.1: blocky interval, soapy, talcose rubble.						
90.1	98.7	(2U 2U/dyke fg,msv,lx,nonmag) Volcanic Dyke Fine-grained, dark green to black, massive and uniform. Pervasive mm scale cream coloured leucoxene grains throughout, nonmagnetic, nil to trace pyrite. Upper 2m is rubbly - broken core, 1.5m lost core is seams. Sharp lower contact at 50 degrees.						

HOLE No: K97-6

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)
HOLE No.: K97-6

Page 4

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS				
				FROM	TO	WIDTH	Au g/t	ck g/t
98.7	137.0	(1U 1U/6P? fg,serp fr,mag) Ultramafic - peridotite? Fine-grained, black to dark green, weak ankerite alteration associated with quartz-ankerite stringers. 3-5% quartz-ankerite stringer and fractures generally <2cm trending at 70-80 degrees. Stringers have a greenish hue due to serpentized contacts. Local blocky-rubble intervals. Massive. Moderately to strongly magnetic.						
	137.0	End of Hole						

Casing left, capped
Core boxes: __, stored at Aunor Minesite, Timmins
Assay samples: 33 (Au)
Township: Knight
NTS: 41P 10/11
UTM: 495670E/5281769N (approx)
Claim: collar on 1221719, eoh on same
Collar Location: 80m N, 140m E of #3 post of 1221719
Location of eoh: 270.3W/357.7N, elevation -102.23m

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
60.00	-48.00	325.00
120.00	-47.50	325.00
137.00	-47.50	325.00

HOLE No: K97-6

GEOLOGY LEGEND

8U Diabase (U=undifferentiated)

7U Felsic to Intermediate Intrusive

- 7G Granite
- 7Gd Granodiorite, Quartz Monzonite
- 7T Tonalite
- 7S Syenite
- 7M Monzonite
- 7FP Feldspar Porphyry
- 7QFP Quartz-Feldspar Porphyry
- 7PA Pegmatite
- 7A Aplite
- 7F Felsite

6U Mafic to Ultramafic Intrusive

- 6D Diorite, Trondhjemite
- 6G Gabbro
- 6A Anorthosite
- 6P Peridotite, Pyroxenite
- 6L Lamprophyre

5U Clastic Sediments

- 5Ar Argillite
- 5ARGF Graphitic Argillite
- 5GW Greywacke
- 5CG Conglomerate
 - 5CGT Timiskaming Conglomerate
- 5SS Sandstone
- 5ST Siltstone
- 5Q Quartzite
- 5A Arkose

4U Chemical Sediments

- 4IF Iron Formation
- 4IFS Sulphide Facies
- 4IFC Silicate Facies
- 4IFO Oxide Facies
- 4C Chert
- 4IGF Graphite

3U Felsic to Intermediate Volcanic

- 3R Rhyolite
- 3D Dacite
- 3A Andesite
- 3T Trachyte

2U Mafic Volcanics

- 2MS Massive
- 2P Pillowed
- 2FB Flow Breccia
- 2HY Hyaloclastite
- 2VAR Variolitic
- 2POR Porphyritic
- 2CA Calc-Alkaline
- 2IT Iron Tholeiite
- 2MT Magnesium Tholeiite

1U Ultramafic Volcanic

- 1TC Talc-Chlorite (altered)
- 1GCB Green-Carbonate (altered)
- 1K Komatiite
- 1BK Basaltic Komatiite

ABBREVIATIONS

Texture

- ag, agg agglomerate
- amy amygdaloidal
- FB, fb, fbx flow breccia
- fol foliated
- glom glomerophyric
- gm groundmass
- hy hyaloclastic
- htr heterolithic
- lap lapilli
- ms, msv, mas massive
- p pillowed
- pj polygonal jointing
- por porphyritic
- qt quench texture
- sch schistose
- sfx spinifex
- t tuff, tuffaceous
- tx texture
- tbx, t-bx tuff-breccia
- ves vesicular
- var variolitic
- _phy _phyric

Alteration

- Ab albitization
- Ank ankeritization
- AZ, az alteration zone
- Bi biotite
- Blch bleached
- Cal calcitic
- Carb carbonatization
- Cb carbon
- Chl chloritization
- Ep epidotization
- Fu fuchsite
- Gcb green carbonate/fuchsite
- Gos gosson
- Hem hematization
- Lx leucoxene
- Pot potassic
- Ser sericitization
- Serp serpentinization
- Sil silicification
- Tc talc
- Tour tourmaline

Mineralization

- Asb asbestose
- Asp arsenopyrite
- Clpy cluster pyrite
- Cpy, Cp chalcopyrite
- Cry crysotile
- Dspy disseminated pyrite
- Gn, Gal galena
- Gf graphite
- Mt magnetite
- Mo molybdenite
- Po pyrrhotite
- Py pyrite
- Sw stockwork
- VG visible gold
- MZ mineralized zone

Veining

- Asbv asbestose
- Av ankerite
- Cv calcite
- Epv epidote
- Hemv hematite
- Mtv magnetite
- Qv quartz
- Qav quartz-ankerite
- Qcv quartz-calcite
- Qtourv quartz-tourmaline
- Tourv tourmaline

Structural

- bd bedded
- bnd banded
- bx breccia
- bxd brecciated
- ct contact
- F, f fault
- FZ, fz fault zone
- flt faulting
- fl flow
- fr fracture
- g gouge
- pj polygonal jointing
- s, sh shear
- SZ, sz shear zone
- slk slickenside

Other

- bld boulder
- ch, cty cherty
- cg coarse-grained
- fg fine-grained
- int intermittent
- loc, l__ local, locally
- mag magnetic
- mg medium-grained
- mnr minor
- mod, m__ moderate
- Ob, Ovb overburden
- pv pervasive
- rub rubble
- sil siliceous
- st, s__ strong
- tect tectonized
- tr trace
- v__ very
- wk, w__ weak

2.18.83

Az 360 deg

035 deg

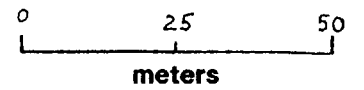
L1221719

K97-6

137.00 m.
K97-6

Geological Legend:

- Intrusive - Late
- Diabase
- Intrusive - Early
- Felsic
- Mafic to Ultramafic
- Sediments
- Clastic
- Chemical
- Volcanics
- Felsic
- Intermediate
- MAFIC VOLCANICS
- Undifferentiated
- Massive
- Variolitic
- ULTRAMAFIC VOLCANICS
- Undifferentiated
- ALTERATION
- Undifferentiated Zone
- MINERALIZATION
- Undifferentiated Zone



BATTLE MOUNTAIN GOLD

PROJECT: KNIGHT (711060)

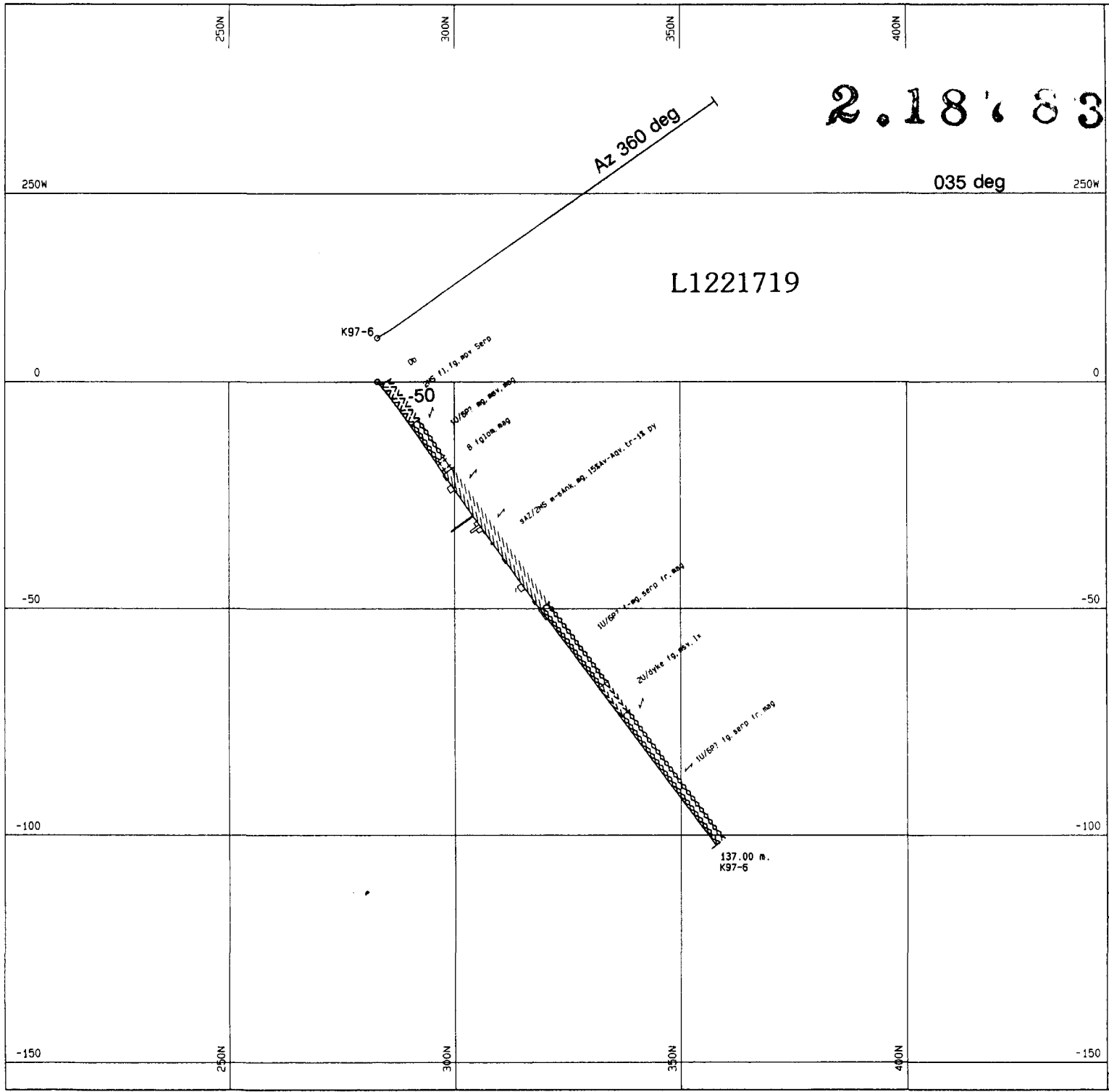
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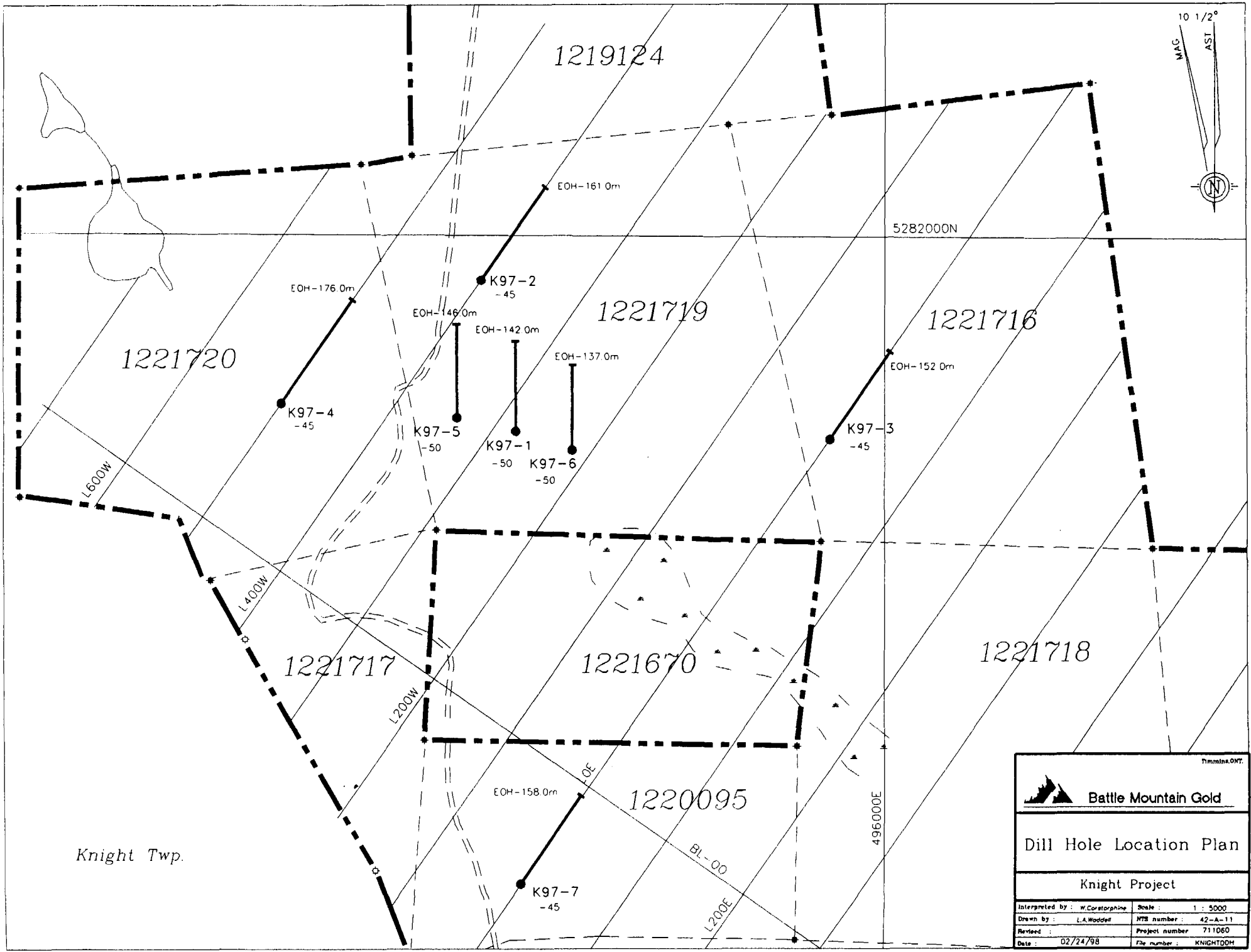
DRILL HOLE: K97-6

ASSAY SCALE: 1cm=2g/t Au


DATE: 98/02/23

SCALE: 1/1200





Knights Twp.

 Battle Mountain Gold	
<h3>Dill Hole Location Plan</h3>	
<h4>Knights Project</h4>	
Interpreted by : W. Corstorphine	Scale : 1 : 5000
Drawn by : L.A. Woddel	NTH number : 42-A-11
Revised :	Project number : 711060
Date : 02/24/98	File number : KNIGHT00H

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)

HOLE No.: K97-7

Collar Eastings: 0.00

Collar Northings: -125.00

Collar Elevation: 0.00

Grid: BMG O35 DEG

Claim: 1220095

Collar Inclination: -45.00

Grid Bearing: 0.00

Final Depth: 158.00 metres

Log Completed 20/11/97


Core: NQ/stored at Aunor Minesite, Timmins

Logged by: S McCann

Date: 18/11/97 to 20/11/97

Down-hole Survey: Acid

Contractor: NDS Drilling

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	ASSAYS		
						WIDTH	Au g/t	ck g/t
0	4.2	(Ob) Overburden-casing						
4.2	51.8	(2U 2P amy,hy,chl fr) Pillowed Mafic Volcanic - moderately altered Grey to pale green, fine-grained. Amygdaloidal and hyalo-clastic textures associated with the pillow structures. Chloritic selvages are dark green, usually hosting quartz calcite stringers and sometimes hyaloclastite material. Selvages and chloritic fractures have up to 3% associated clustered and disseminated pyrite. Occasional <2cm grey quartz stringer. The groundmass matrix is moderately ankeritized and silicified. Upper 80cm is blocky and weakly oxidized. The unit strongly resembles that in the bottom of hole K97-3. Lower contact is gradational.	5386 5387 5388 5389 5390 5391 5392 5393	5.00 6.50 12.50 26.00 27.50 42.50 47.00 48.50	6.50 8.00 14.00 27.50 29.00 43.50 48.50 50.00	1.50 1.50 1.50 1.50 1.50 1.00 1.50 1.50	0.01 0.01 0.01 0.09 0.01 0.01 0.01 0.01	
51.8	57.4	(2MS 2MS mg,lx) Mafic Volcanic - massive Greyish green and medium-grained. Massive uniform rock hosting moderate pervasive 1mm sized cream coloured leucoxene grains. 3-5% quartz calcite stringers. Occasional lime green, feldspathic glomerophyre. Local pyrite clusters associated with stringers, trace to 1% pyrite overall.						
								
			41P11NE2004	2.18783	KNIGHT	070		
57.4	68.0	(2U 2P amy,hy,chl fr) Pillowed Mafic Volcanic - moderately altered As described for 4.2-51.8. Pale green to grey. Lower contact sharp at 60 degrees to core axis.	5394 5395	57.50 67.10	58.50 68.00	1.00 0.90	0.01 0.01	
68.0	69.1	(4U 4GF/5ARGF 7% py,conductive) Graphite and Graphitic Argillite - conductive	5396	68.00	69.10	1.10	0.01	

Wayne Eastop

HOLE No: K97-7

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)

HOLE No.: K97-7

Page 2

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	ASSAYS				
						WIDTH	Au g/t	ck g/t		
		Dark grey to black, aphanitic. Strong graphite component. 3-5% quartz-calcite fracture filling. 7% clustered primary pyrite. Bedding is at 70 degrees. Probable cause of the IP anomaly!								
		Lower contact is distinct at 74 degrees.								
69.1	106.7	(2VAR 2VAR p,hy) Variolitic Pillowed Mafic Volcanic - hyaloclastic Pale to light green, medium-grained. Hyaloclastic, moderately altered. Buff coloured varioles are up to 1cm but generally average 5mm and are often coalescing. 5% quartz-calcite stringers and fracture fillings. Matrix is moderately ankeritized and silicified. Occasional narrow breccia zones <20cm as at 95.8. Trace to 15 pyrite overall with 5mm to 1cm clusters associated with the stringers and selvages.	5397 5398 5399 5400 5401	69.10 73.50 83.50 102.50 103.50	70.10 74.50 84.50 103.50 104.50	1.00 1.00 1.00 1.00 1.00	0.01 0.01 0.01 0.01 0.01		0.01	
		Sharp lower contact at 70 degrees.								
106.7	124.5	(8U 8U mg,mag) Diabase Massive, moderately altered. Greyish green massive uniform rock. Minor chlorite fractures. Magnetic and siliceous. Rare <2% quartz-calcite stringers. Trace pyrite.								
		Abrupt lower contact at 80 degrees.								
124.5	136.6	(2VAR 2VAR p,hy) Variolitic Pillowed Mafic Volcanic - hyaloclastic As described above from 69.1 to 106.7.	5402	135.00	136.60	1.60	0.01			
136.6	141.4	(2MS 2MS mg,chl) Light green, medium-grained. Massive, relatively unaltered rock with weak ankerite and silica alteration. Minor quartz calcite fracture filling and stringers, chloritic component to the seams. The unit has a weak speckled texture.								

HOLE No: K97-7

Battle Mountain Canada Ltd

DIAMOND DRILL LOG

PROPERTY: KNIGHT (711060)
HOLE No.: K97-7

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS				
				FROM	TO	WIDTH	Au g/t	ck g/t
		Trace amounts of pyrite.						
		Lower contact at 50 degrees to core axis.						
141.4	158.0	(8U 8U f-mg, loc mag) Dark green to dark grey in colour, fine to medium-grained. Moderate pervasive epidote associated with fractures and quartz calcite stringers trending at 35 degrees to core axis. Chilled upper contact. Glomeroporphyritic with feldspar megacrysts. Magnetic below 144.5m with abundant chloritic fractures. Trace pyrite.						

158.0 End of Hole

Casing left, capped
Core boxes: 37, stored at Aunor Minesite, Timmins
Assay samples: 17 (Au)
Township: Knight
NTS: 41P 10/11
UTM: 495616E/5281310N (approx)
Claim: collar on 1220095, eoh on same
Collar Location: 100m N, 120m E of #3 post of 1220095
Location of eoh: 000E/10.98S, elevation -109.38m

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
60.00	-43.00	0.00
120.00	-44.00	0.00
158.00	-44.00	0.00

GEOLOGY LEGEND

8U Diabase (U=undifferentiated)

7U Felsic to Intermediate Intrusive

- 7G Granite
- 7Gd Granodiorite, Quartz Monzonite
- 7T Tonalite
- 7S Syenite
- 7M Monzonite
- 7FP Feldspar Porphyry
- 7QFP Quartz-Feldspar Porphyry
- 7PA Pegmatite
- 7A Aplite
- 7F Felsite

6U Mafic to Ultramafic Intrusive

- 6D Diorite, Trondhjemite
- 6G Gabbro
- 6A Anorthosite
- 6P Peridotite, Pyroxenite
- 6L Lamprophyre

5U Clastic Sediments

- 5Ar Argillite
- 5ARGF Graphitic Argillite
- 5GW Greywacke
- 5CG Conglomerate
 - 5CGT Timiskaming Conglomerate
- 5SS Sandstone
- 5ST Siltstone
- 5Q Quartzite
- 5A Arkose

4U Chemical Sediments

- 4IF Iron Formation
- 4IFS Sulphide Facies
- 4IFC Silicate Facies
- 4IFO Oxide Facies
- 4C Chert
- 4IGF Graphite

3U Felsic to Intermediate Volcanic

- 3R Rhyolite
- 3D Dacite
- 3A Andesite
- 3T Trachyte

2U Mafic Volcanics

- 2MS Massive
- 2P Pillowed
- 2FB Flow Breccia
- 2HY Hyaloclastite
- 2VAR Variolitic
- 2POR Porphyritic
- 2CA Calc-Alkaline
- 2IT Iron Tholeiite
- 2MT Magnesium Tholeiite

1U Ultramafic Volcanic

- 1TC Talc-Chlorite (altered)
- 1GCB Green-Carbonate (altered)
- 1K Komatiite
- 1BK Basaltic Komatiite

ABBREVIATIONS

Texture

- ag, agg agglomerate
- amy amygdaloidal
- FB, fb, fbx flow breccia
- fol foliated
- glom glomerophyric
- gm groundmass
- hy hyaloclastic
- htr heterolithic
- lap lapilli
- ms, msv, mas massive
- p pillowed
- pj polygonal jointing
- por porphyritic
- qt quench texture
- sch schistose
- sfx spinifex
- t tuff, tuffaceous
- tx texture
- tbx, t-bx tuff-breccia
- ves vesicular
- var variolitic
- _phy _phyric

Alteration

- Ab albitization
- Ank ankeritization
- AZ, az alteration zone
- Bi biotite
- Blech bleached
- Cal calcitic
- Carb carbonatization
- Cb carbon
- Chl chloritization
- Ep epidotization
- Fu fuchsite
- Gcb green carbonate/fuchsite
- Gos gosson
- Hem hematization
- Lx leucoxene
- Pot potassic
- Ser sericitization
- Serp serpentinization
- Sil silicification
- Tc talc
- Tour tourmaline

Mineralization

- Asb asbestose
- Asp arsenopyrite
- Clpy cluster pyrite
- Cpy, Cp chalcopyrite
- Cry crysotile
- Dspy disseminated pyrite
- Gn, Gal galena
- Gf graphite
- Mt magnetite
- Mo molybdenite
- Po pyrrhotite
- Py pyrite
- Sw stockwork
- VG visible gold
- MZ mineralized zone

Veining

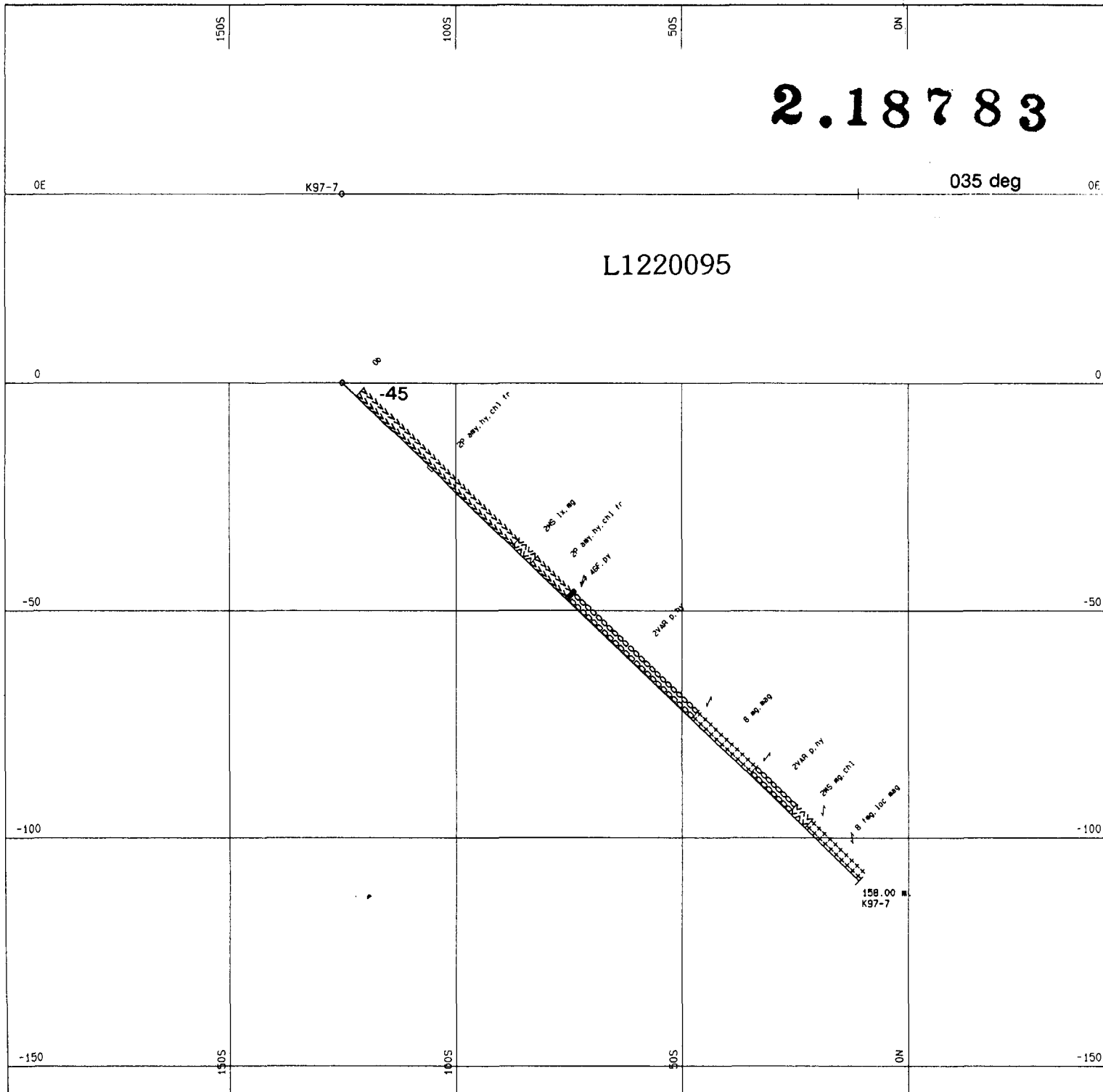
- Asbv asbestose
- Av ankerite
- Cv calcite
- Epv epidote
- Hemv hematite
- Mtv magnetite
- Qv quartz
- Qav quartz-ankerite
- Qcv quartz-calcite
- Qtourv quartz-tourmaline
- Tourv tourmaline

Structural

- bd bedded
- bnd banded
- bx breccia
- bxd brecciated
- ct contact
- F, f fault
- FZ, fz fault zone
- flt faulting
- fl flow
- fr fracture
- g gouge
- pj polygonal jointing
- s, sh shear
- SZ, sz shear zone
- slk slickenside

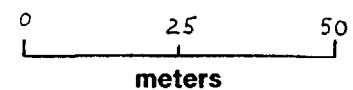
Other

- bid boulder
- ch, cty cherty
- cg coarse-grained
- fg fine-grained
- int intermittent
- loc, l__ local, locally
- mag magnetic
- mg medium-grained
- mnr minor
- mod, m__ moderate
- Ob, Ovb overburden
- pv pervasive
- rub rubble
- sil siliceous
- st, s__ strong
- tect tectonized
- tr trace
- v__ very
- wk, w__ weak



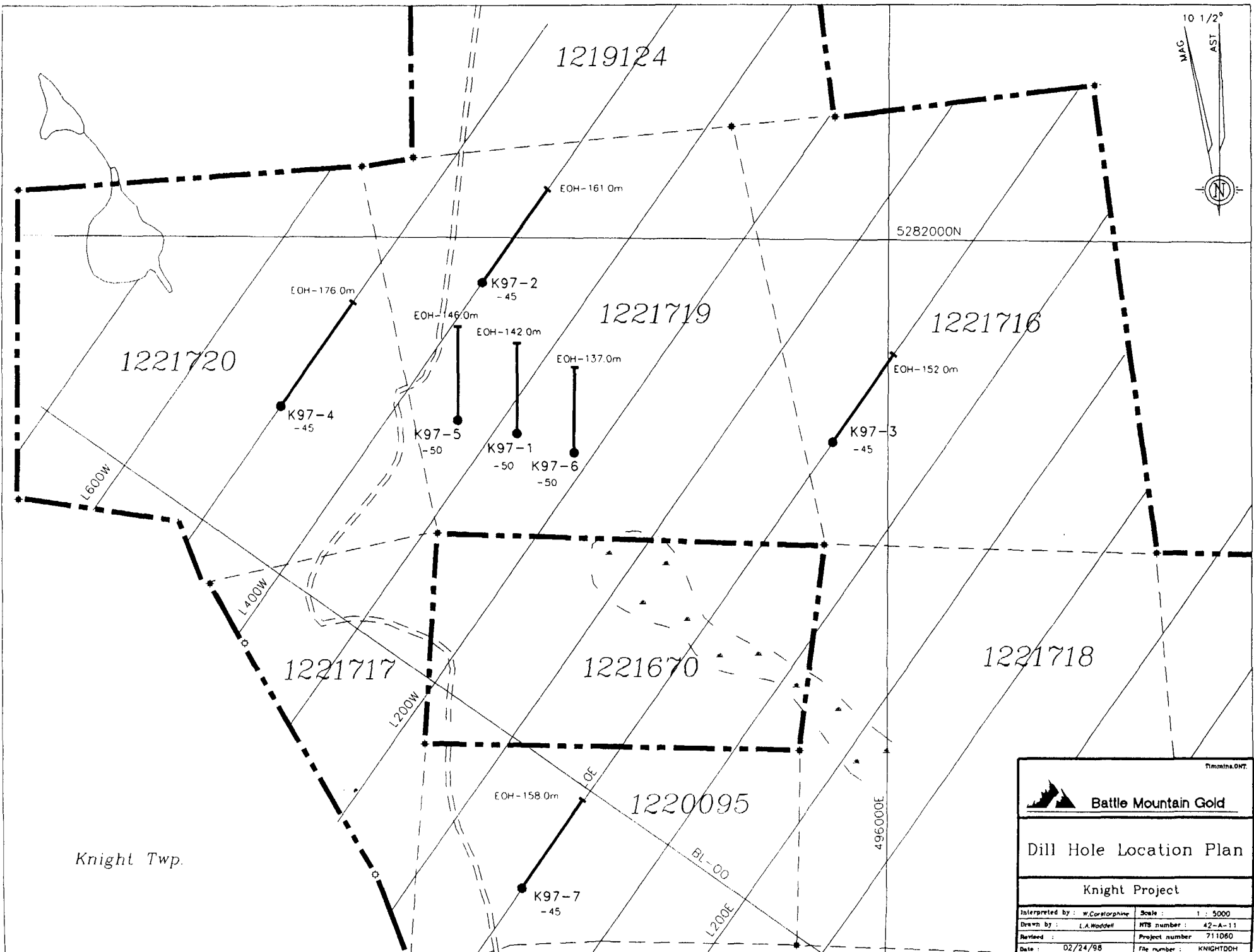
Geological Legend:

- Intrusive - Late
- Diabase
- Intrusive - Early
- Felsic
- Mafic to Ultramafic
- Sediments
- Clastic
- Chemical
- Volcanics
- Felsic
- Intermediate
- MAFIC VOLCANICS
- Undifferentiated
- Massive
- Variolitic
- ULTRAMAFIC VOLCANICS
- Undifferentiated
- ALTERATION
- Undifferentiated Zone
- MINERALIZATION
- Undifferentiated Zone




BATTLE MOUNTAIN GOLD

PROJECT: KNIGHT (711060)
 SECTION 0E
 DRILL HOLE: K97-7
 ASSAY SCALE: 1cm=2g/t Au



Timmins, ONT.

 **Battle Mountain Gold**

Dill Hole Location Plan

Knights Project

Interpreted by :	W. Corstorphine	Scale :	1 : 5000
Drawn by :	L.A. Woodell	MIS number :	42-A-11
Revised :		Project number :	711080
Date :	02/24/98	File number :	KNIGHTDDH



Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use) W9880.00598 Assessment Files Research Imaging



41P11NE2004 2.18783 KNIGHT 900

of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the to review the assessment work and correspond with the mining land holder. g Recorder, Ministry of Northern Development and Mines, 6th Floor,

- Instructions: - For work performed on Crown Lands before recording a claim, use form 0240. - Please type or print in ink.

1. Recorded holder(s) (Attach a list if necessary)

Name: Battle Mountain Canada Ltd. Client Number: 143550
Address: PO Box 1205, 60 Shirley Street South Timmins, Ontario P4N 7J5
Telephone Number: (705) 268-9600
Fax Number: (705) 268-9572

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

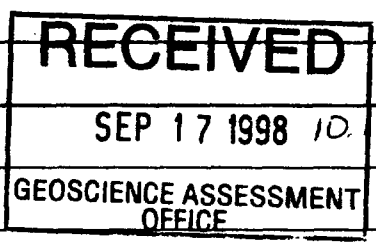
- Geotechnical: prospecting, surveys, assays and work under section 18 (regs)
Physical: drilling, stripping, trenching and associated assays
Rehabilitation

Work Type: Diamond Drilling - 7 holes K97-1 to K97-7
Office Use
Commodity
Total \$ Value of Work Claimed: 67,348
Dates Work Performed: From 07/11/97 To 20/11/97
NTS Reference
Township/Area: Knight Township
Mining Division: Harder Lk
Resident Geologist District: Kirkland Lake

- Please remember to: - obtain a work permit from the Ministry of Natural Resources as required; - provide proper notice to surface rights holders before starting work; - complete and attach a Statement of Costs, form 0212; - provide a map showing contiguous mining lands that are linked for assigning work; - include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name: Wayne Corstorphine Telephone Number: (705) 268-9600
Address: PO Box 1205, 60 Shirley Street South Timmins, Ontario P4N 7J5
Fax Number: (705) 268-9572



2.18783

4. Certification by Recorded Holder or Agent

I, Wayne Corstorphine, do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent: Wayne Corstorphine Date: September 15/98
Agent's Address: PO Box 1205, 60 Shirley St S, Timmins Ont P4N 7J5 Telephone Number: (705) 268-9600 Fax Number: (705) 268-9572

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$ 8,892	\$ 4,000	0	\$4,892
1 L 1190030		See attached schedule			
2					
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11					
12					
13					
14					
15					
Column Totals					

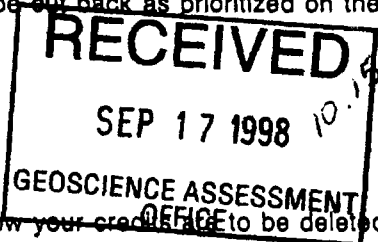
I, Wayne Corstorphine (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing Wayne Corstorphine Date September 15/98

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):



Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (888) 415-9846

Fax: (877) 670-1555

October 1, 1998

Wayne Corstorphine
BATTLE MOUNTAIN CANADA LTD.
P.O. Box 1205
60 Shirley Street South
Timmins, Ontario
P4N 7J5

Visit our website at:
www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

Dear Sir or Madam:

Submission Number: 2.18783

Status

Subject: Transaction Number(s): W9880.00598 Deemed Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. **WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.**

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in **DUPLICATE** to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at benetest@epo.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,



ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Work Report Assessment Results

Submission Number: 2.18783

Date Correspondence Sent: October 01, 1998

Assessor: Steve Beneteau

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9880.00598	1220095	KNIGHT	Deemed Approval	September 29, 1998

Section:
16 Drilling PDRILL

Correspondence to:
Resident Geologist
Kirkland Lake, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):
Wayne Corstorphine
BATTLE MOUNTAIN CANADA LTD.
Timmins, Ontario
