PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
BPD85

DRILLING

Location	TASMANIA
Project	BURNS PEAK
Prospect	BROWNS TUNNEL
Design By	M S Saxon
Logged By	M S Saxon
Relogged	
Commenced	24/2/95
Completed	8/3/95
Drilled By	Contract Diamond Drilling
Drill Rig	Mindrill 55

OBJECTIVE

To test the Browns Tunnel Host Sequence on section 5100N, 200m down dip from EAF16. Signficant mineralisation was intersected within EAF16, and on drilled sections 100m to the north and south.

RESULT

The complete Browns Tunnel Host Sequence was intersected. 0.5m of massive sulphide mineralisation was intersected within the lower BTHS, immediately beneath a peperitic rhyolite sill.

COLLAR SURVEY (AMG)

AMG mN	5384493.5	Bearing	102.0
AMG mE	377352.9	Dip	-50.0
mN		Hole Length	394.3
mE		DH Survey Type	Eastman Camera
RL	415.3		

DOWNHOLE SURVEY (AMG)

Depth	Bearing	Dip
0	102	-50
58	103	-52.75
97	103	-52.5
127	103	-52.5
160	104	-52
190	105	-51
220	106	-51
261	107	-51
295	108	-50.5
358	108.5	-49.75
388	108.5	-49.25

SIGNIFICANT CORE LOSS

POOR GROUND CONDITION ZONES

HOLE SIZE

From	To	Size
0	3	HW
3	50	HQ
50	394.3	NQ

HOLE CONDITIONS AFTER COMPLETION

Collar	3m Collar pipe within hole
Steel Casing	
PVC Casing	48mm PVC to EOH
Ground Water	
Wedge	
Drill Pad	

SIGNIFICANT INTERSECTIONS

From	To	Int	Cu	Pb	Zn	Ag	Au	Comments
235.5	236	0.5	2.7	8.3	17.8	260	15.5	
262.4	263.3	0.9	0.2	1.2	1.9	29	1.3	

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PROJECT:

Vertical Scale 1 : 200

DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
0.00	101.80	RHYOLITE WITH MINOR BRECCIA pink green, massive porphyritic, felespar phyric quartz phyric. Very massive Pinnacles Rhyolite; common subrounded clasts/pseudoclasts within lava; evenly porphyritic, crystal rich, crystals eunecral, feldspars typically 1mm in size; slight clastic appearance from 96m. Trace pyrite throughout.. CONTACT: conformable mixed			10 20		FAULT pug	

5 cm

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DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
0.00	101.80	RHYOLITE WITH MINOR BRECCIA pink green, massive porphyritic, feldspar phyric quartz phyric. Very massive Pinnacles Rhyolite; common subrounded clasts/pseudoclasts within lava; evenly porphyritic, crystal rich, crystals euhedral, feldspars typically 1mm in size; slight clastic appearance from 96m. Trace pyrite throughout.. CONTACT: conformable mixed	40.5-42.5m: bleaching to pale pink - albite/hematite? 50.0-51.0m: bleaching to pale pink - albite/hematite?		30 40 50			

5 cm

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DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
0.00	101.90	RHYOLITE WITH MINOR BRECCIA pink green, massive porphyritic, felspar phyric quartz phyric. Very massive Pinnacles Rhyolite; common subrounded clasts/pseudoclasts within lava; evenly porphyritic, crystal rich, crystals euhedral, feldspars typically 1mm in size; slight clastic appearance from 96m. Trace pyrite throughout.. CONTRACT: conformable mixed	67.0-68.5m: bleaching to pale pink - albite/hematite? 76.5-79.6m: bleaching to pale pink - albite/hematite? 82.0-88.8m: : bleaching to pale pink - albite/hematite?		60 70 80			

5 cm

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DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
0.00	101.80	RHYOLITE WITH MINOR BRECCIA pink green, massive porphyritic, feldspar phyric quartz phyric. Very massive Pinnacles Rhyolite; common subrounded clasts/pseudoclasts within lava; evenly porphyritic, crystal rich, crystals euhedral, feldspars typically 1mm in size; slight clastic appearance from 96m. Trace pyrite throughout.. CONTACT: conformable mixed	82.0-88.8m: : bleaching to pale pink - albite/hematite?		90 100 110			
101.80	105.60	CHERT INTERBEDDED WITH PUMICEOUS MASS FLOW, brecciated. Mid-grey cherty sediment with interbedded green-grey pumice breccia; brecciated, darker grey silica-pyrite matrix to 'clasts'; stylolites define 'clast' edges.. CONTACT: conformable mixed	103.6-104.2m: pale grey silicification.	103-103.4m: 10% pyrite in matrix. 103.6-104.0m: minor galena-sphalerite veinlets. 104.6-105.4m: minor galena/sphalerite disseminated.				
105.60	124.90	RHYOLITE WITH MINOR BRECCIA pink, massive porphyritic, feldspar phyric quartz phyric. Pinnacles Rhyolite as above; common irregular bleached clasts/pseudoclasts with eroded edges, equivalently phyric to lava; more quartz than above unit; feldspars commonly chlorite altered, common carbonate veins including local purple carbonate;	108.1-109.0m: moderate chlorite veining and alt'n.					

5 cm

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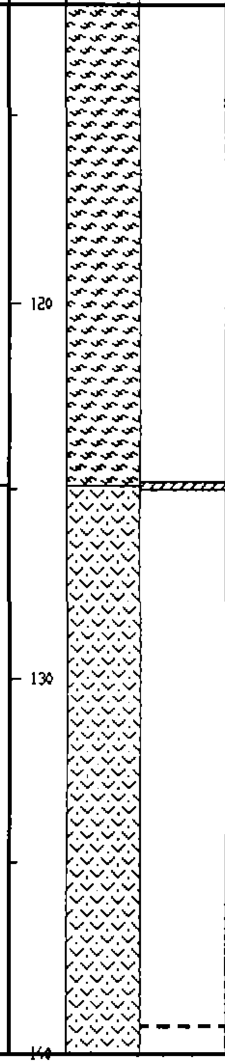
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	GRAPHIC (Depth / Lith / Struct)	STRUCTURES
105.60	124.90	RHYOLITE WITH MINOR BRECCIA pink, massive porphyritic, feldspar phyric quartz phyric. Pinnacles Rhyolite as above; common irregular bleached clasts/pseudoclasts with eroded edges, equivalently phyric to lava; more quartz than above unit; feldspars commonly chlorite altered, common carbonate veins including local purple carbonate;				VEIN quartz
124.90	150.40	PUMICEOUS MASS FLOW green grey, massive, pumiceous. Tube pumice breccia with moderate patchy sericite-silica overprint giving blotchy-mottled texture, mid-dk green where unaltered, sericite green where altered; 10% carbonate, replacing feldspar and lithics from 129m; pink carbonate veining throughout; clasts vary from 3cm to 1cm average; lithic clasts mixed with upper 0.3m;. CONTACT: faulted	124.9-133.5m: blotchy to pervasive ser-sil alt'n. 138.1-138.6m: strong sericite alt'n.	124.9-150.4m: 1% pyrite spotted within pumice breccia.		FAULT pug

5 cm

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DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth 1/40	Lith	Struct	STRUCTURES
124.90	150.40	PUMICEOUS MASS FLOW green grey, massive, pumiceous. Tube pumice breccia with moderate patchy sericite-silica overprint giving blotchy-mottled texture, mid-dk green where unaltered, sericite green where altered; 10% carbonate, replacing feldspar and lithics from 129m; pink carbonate veining throughout; clasts vary from 3cm to 1cm average; lithic clasts mixed with upper 0.3m;. CONTACT: faulted	145.4-145.7m: strong sericite alt'n. 149.1-150.4m: moderate ser-sil alt'n.	124.9-150.4m: 1% pyrite spotted within pumice breccia.	150			VEIN quartz VEIN quartz FAULT shear
150.40	155.10	RHYOLITE GRADING TO BRECCIA pink green. Very similar to Pinnacles Rhyolite; occasional bleached clasts/pseudoclasts; quartz poor, feldspar phyric; lava breccia from 154.3-155.1; pumice breccia with fault contacts from 150.0-151.2m;. CONTACT: faulted	150.8-151.2m: moderate cloudy sil-ser alt'n.					VEIN quartz
155.10	156.60	ALTERATION ZONE. Cloudy silica-sericite, probably altered pumice breccia; 0.1m shear zone at base of unit				a/z		FAULT
156.60	171.60	PUMICEOUS MASS FLOW khaki green, massive, pumiceous feldspar phyric. Homogeneous moderately sericite altered pumice breccia, pumice clasts <5mm size; feldspar all carbonate altered, commonly fractured/shattered; blotchy texture due to blotchy alteration; rare lithics; occasional carbonate veins throughout.	165.0-166.4m: moderate ser-chl alt'n. 166.4-167.0m: moderate ser-cloudy silica alt'n.		160			FAULT shear

5 cm

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FROM	TO	DESCRIPTION: LITHOLOGY	ALTERATION	MINERALISATION
156.60	171.60	PUMICEOUS MASS FLOW khaki green, massive, pumiceous feldspar phyric. Homogeneous moderately sericite altered pumice breccia, pumice clasts <5mm size; feldspar all carbonate altered, commonly fractured/shattered; blotchy texture due to blotchy alteration; rare lithics; occasional carbonate veins throughout.	168.3-179.6m: ser-chl and ser-chl-cloudy silica assoc. with shear zone; felspar destroyed.	
171.60	173.60	ALTERATION ZONE, pumiceous. Intense sericite-cloudy silica, probably altered pumice breccia; mixed pale grey siliceous zones with anastomosing sericitic cleavage zones; chlorite-pyrite spotting; sericite-chlorite rather than ser-sil more common from 173.0-173.6m.	173.6-176.2m: minor silicification of siltstone, minor ser.	171.6-173.6m: 1% pyrite associated with sericitic cleavage zones. Trace gal/sphal veining.
173.60	176.20	SILTSTONE CONTAINING INCLUSIONS OF ANDESITE, laminated. Mixed mid grey cherty siltstone and 20% bleached irregular andesite clasts; minor fine grained sandstone; occasional pyrite lenses;	176.2-180.0m: mod ser of pumice, siltstone cherty.	173.9-175.2m: 5% pyrite as lenses, veins, dissem. and clots.
176.20	180.00	PUMICEOUS MASS FLOW INTERBEDDED WITH SANDSTONE WITH MINOR ANDESITE. Interbedded pale green sericitic pumice breccia and mid grey fine grained sandstone; sandstone clasts in pumice breccia; 0.1m andesite lava?; anastomosing cleavage zones common;		176.2-179.3m: 2% pyrite spotted in pumice, associated with ser. and as dissem. and lenses in sediment matrix. Mnr dissem. gal-sph-chalco.
180.00	186.40	SILTSTONE INTERBEDDED WITH SANDSTONE WITH MINOR ANDESITE. Interbedded crystal-lithic volcaniclastic sandstone, pale grey cherty/siliceous siltstone, with minor coherent andesite lava and pumice breccia; typically well laminated, rare grading; rip up clasts common in horizons; siltstone vitric;. CONTACT: conformable abrupt	184.1-184.3m: weak ser alt'n.	179.3-185.1m: Disseminated pyrite-chacopyrite-gal-sphal in sst matrix to 5%. Best 180-181.9m.
186.40	234.70	RHYOLITE. Feldspar-quartz rhyolite; semi-massive, coherent, pink to green-grey; locally peperitic, jigsaw fit of clasts with mixed pale grey silicified sediment; bleached in part; peperite at 189.1-192.2, 195.6-196.6, 217.4-220.6, 229.8-231.3,		185.8-186.4m: 5% pyrite as lenses.

GRAPHIC

Depth	Lith	Struct	STRUCTURES
170			FAULT shear
	a/z		
			FAULT shear
180			BEDDING @30
			FAULT
190			

5 cm

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FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
186.40	234.70	RHYOLITE. Feldspar+-quartz rhyolite; semi-massive, coherent, pink to green-grey; locally peperitic, jigsaw fit of clasts with mixed pale grey silicified sediment; bleached in part; peperite at 189.1-192.2, 195.6-196.6, 217.4-220.6, 229.3-231.3,		220.3-220.6m: 1% sphalerite in veins.	200 210 220		FAULT	

5 cm

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FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
186.40	234.70	RHYOLITE. Feldspar+-quartz rhyolite; semi-massive, coherent, pink to green-grey; locally peperitic, jigsaw fit of clasts with mixed pale grey silicified sediment; bleached in part; peperite at 189.1-192.2, 195.6-196.5, 217.4-220.6, 229.8-231.3,			230			FAULT FAULT FAULT
234.70	235.50	CONGLOMERATE. Lithic clasts with green-grey sandy matrix; clasts of grey cherty siltstone; angular peperitic inclusions of porphyry fragments from above unit;		234.7-235.5m: 2% pyrite as spots, 1% gal-sphal-calco veining.				
235.50	236.00	MASSIVE SULPHIDE. Massive Zn-Pb-Cu sulphide, plus silica-carbonate gangue; banded in part, abrupt upper and lower contacts; Cu rich upper contact, galena rich ground mass hosting sphalerite lenses; banding 50deg to LCA; cleavage in unminz zone parallel to banding;		235.5-236.0m: Massive Zn-Pb-Cu sulphide, 17.8% Zn, 8.3% Pb, 2.7% Cu, 15.5 g/t Au.		m/s		
236.00	243.10	ALTERATION ZONE GRADING TO PUMICEOUS MASS FLOW. Cloudy silica-pyrite-sericite altered zone grades downhole to pumice-crystal breccia; weak bedding trace; cloudy silica appears ore associated;	236.0-238.0m: intense cloudy sil-ser-pyrite alt'n of pumice. 238.6-243.1m: patchy to intense ser-feldspar alt'n, euhedral felds. Associate mid grey silicification.	236.0-243.1m: 5-15% pyrite in matrix of sandstone and as irregular veinlets associated with cloudy silica alteration. 1% disseminated sphal-gal decreasing downhole.	240	a/z		FAULT shear
243.10	251.30	SILTSTONE INTERBEDDED WITH SANDSTONE WITH MINOR CONGLOMERATE. Well laminated pale grey cherty siltstone plus minor sandstone and lithic conglomerate; siltstone commonly bleached ancesitic appearance; fine planar lamination; bedding fractured near base of unit;	247.8-248.3m: moderate ser alt'n of pumice. 249.6-251.3m: silicified mudstone, cherty appearance.	245.2-245.6m: Irregular pyrite vein/replacement to 10%. 248.9-249.1m: 20% pyrite as dissemination and lenses. 249.1-250.9m: pyrite lenses associated with silicification to 5%. Some breccia fill. 250.9-251.1m: Irreglar breccia matrix of sphal-chalco-pyrite.	250			FAULT
251.30	262.50	RHYOLITE. Feldspar+-quartz rhyolite; semi-massive, coherent, pink to green-grey; locally peperitic, jigsaw fit of clasts with mixed pale grey silicified sediment; peperite at 253.6-253.8m; minor carbonate veining;						

5 cm

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DESCRIPTION					GRAPHIC			
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
251.30	262.50	RHYOLITE. Feldspar-quartz rhyolite; semi-massive, coherent, pink to green-grey; locally peperitic, jigsaw fit of clasts with mixed pale grey silicified sediment; peperite at 253.6-253.8m; minor carbonate veining;	258.0-258.2m: weak ser alt'n. 258.2-258.8m: weak sil alt'n.		260			FAULT
262.50	263.30	SILTSTONE MIXED WITH SANDSTONE		262.7-263.2m: Semi massive nodular carbonate and pyrite, with minor sphal-gal veining.				
263.30	265.70	RHYOLITE, peperitic. Peperitic mixture of pale pink rhyolite lava and pale grey silicified sediment; varies from angular lava clasts hosted by sediment, to lava with sediment veining; hot contact;						FAULT
265.70	269.20	SILTSTONE INTERBEDDED WITH SANDSTONE. Mid grey laminated siltstone bedded with grey granular sandstone; minor downhole coarsening of unit;		266.2-269.2m: Sphal-chalco veins and blebs to 2%. Assoc. with carbonate.				BEDDING A45
269.20	274.80	PUMICEOUS MASS FLOW. Altered pumice breccia with minor feldspar crystal sandstone with strong cloudy silica-sericite alteration; best mineralization associated with strongest silica alteration;	269.2-271.0m: strong cloudy silica-mid grey silica-sericite alt'n. 271.0-274.8m: mod ser-sil.	268.2-274.8m: Common sphal-chalco-gal veins and blebs, to 2% Zn over 1m.	270			
274.80	281.70	RHYOLITE. Peperitic pale pink rhyolite with pale grey silicified sediment 'veins'; margins very peperitic, centre coherent;			280			

5 cm

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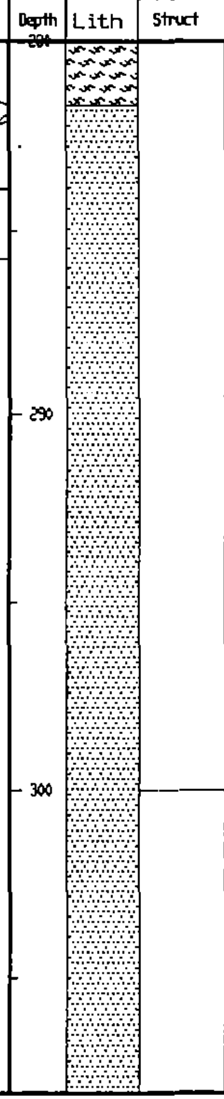
FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION
274.80	281.70	RHYOLITE. Peperitic pale pink rhyolite with pale grey silicified sediment 'veins'; margins very peperitic, centre coherent;		281.1-281.9m: Semi massive pyrite.
281.70	308.10	SILTSTONE INTERBEDDED WITH SANDSTONE, laminated. Bedded dark grey laminated siltstone and 10% mid grey crystal rich sandstone with minor pumiceous mass flow, rhyolite lava (as above) and lithic conglomerate; rhyolite lava peperitic at 303.1-306.6m; bedding throughout typically disrupted and irregular;	283.8-285.8m: strong cloudy silica-ser-pyrite alt'n of pumice. 289.5-295.0m: moderate silicification of siltstone, cherty appearance.	282.1-283.9m: 2% sphal-gal in irregular veins in siltst. 283.9-285.8m: Sphal-gal blebs, pyrite veinlets associated with cloudy silica. 285.8-308.1m: Network of sphal-gal veins and blebs assoc. with carbonate and chlorite selvage; post-cleavage mineralisation; siltstone hosted.

GRAPHIC



STRUCTURES

BEDDING A40

5 cm

741168

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FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
308.10	321.90	SILTSTONE INTERBEDDED WITH SANDSTONE, laminated. Bedded dark grey laminated siltstone and 10% mid grey crystal rich sandstone with minor pumiceous mass flow, rhyolite lava (as above) and lithic conglomerate; rhyolite lava peperitic at 303.1-306.6m; bedding throughout typically disrupted and irregular;	308.1-311.1m: cloudy sil-ser-pyrite alt'n of pumice.	285.8-308.1m: Network of sphal-gal veins and blebs assoc. with carbonate and chlorite selvage: post-cleavage mineralisation: siltstone hosted.	310			
			311.1-321.9m: wk ser alt'n.	308.1-311.1m: Spotty sphal-gal assocaited with cloudy silica and veinlet pyrite.				
		PUMICEOUS MASS FLOW INTERBEDDED WITH SILTSTONE. Pumice-lithic breccia/sandstone with 15% interbedded dark grey siltstone, increasing towards base; pumice is cloudy silica-sericite altered, with sericite wisps commonly after pumice; lithics of rhyolite, mudstone; siltstone massive and slightly contorted;						
				316.8-349.0m: Sphal-gal-carbonate veins and blebs in siltstone with chlorite selvage: post cleavage mineralisation: highly irregular; best zone 316.8-318.4m: trace pyrite throughout.	320			FAULT A10
321.90	349.00	SILTSTONE WITH MINOR SANDSTONE WITH MINOR ANDESITE WITH MINOR PUMICEOUS MASS FLOW. Mid grey to black laminated siltstone/mudstone with occasional interbeds of pumice breccia (as above), bleached andesite, and feldspar crystal-lithic rich sandstone; increasingly sandy towards unit base; siliceous in part;						FAULT BEDDING A22
					330			

5 cm

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FROM	TO	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Struct	STRUCTURES
321.90	349.00	SILTSTONE WITH MINOR SANDSTONE WITH MINOR ANDESITE WITH MINOR PUMICEOUS MASS FLOW. Mid grey to black laminated siltstone/mudstone with occasional interbeds of pumice breccia (as above), bleached andesite, and feldspar crystal-lithic rich sandstone; increasingly sandy towards unit base; siliceous in part;		316.8-349.6m: Sphal-gal-carbonate veins and blebs in siltstone with chlorite selvage; post cleavage mineralisation; highly irregular; best zone 316.8-318.4m; trace pyrite throughout.	340			FAULT FAULT BEDDING A40 BEDDING A45
349.00	349.50	FAULT ZONE (PUG). Fractured core, calcite veining;				fz		FAULT
349.50	355.80	SANDSTONE. Bedded feldspar crystal sandstone and minor lithic conglomerate and siltstone; lithics (1-2cm) typically siltstone; bedding angular and fractured; minor pumice clasts		349.5-355.8m: 2% disseminated pyrite in sst matrix.	350			
355.80	394.30	PUMICEOUS MASS FLOW green cream, massive, pumiceous. Sericitic pumice breccia; massive; common pyrite spotting; pumice 3-5cm;	355.8-394.3m: carbonate and pyrite spotting, moderate ser alt'n.		360			

5 cm

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355.80	394.30	PUMICEOUS MASS FLOW green cream, massive, pumiceous. Sericitic pumice breccia; massive; common pyrite spotting; pumice 3-5cm;	355.8-394.3m: carbonate and pyrite spotting, moderate ser alt'n.		370 380 390		FAULT FAULT	

5 cm

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355.80	394.30	PUMICEOUS MASS FLOW green cream, massive, pumiceous. Sericitic pumice breccia; massive; common pyrite spotting; pumice 3-5cm;	355.8-394.3m: carbonate and pyrite spotting, moderate ser alt'n.					

400

410

420

5 cm

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