HOLE No. BPD 72.

PASMINCO EXPLORATION
DIAMOND DRILL CORE RECORD

Page of

LOCATION	Tasmania
PROJECT	Burn's Peak
PROSPECT	Leo's Find
DESIGNED BY	A.N.L.
LOGGED BY	A.N.L.
RELOGGED	
COMMENCED	
COMPLETED	
DRILLED BY	Diamond Drilling Tasmania
DRILL RIG	Longyear 44.

OBJECTIVE

To test the Brown's Tunnel Sequence, 400m along strike from BPD 65, at its intersection with the Pinnacles Axis.

RESULT

No significant mineralisation intersected, though altered rocks of the Brown's Tunnel Sequence were encountered.

LOCATION/SURVEY DATA (AMG)

Grid	AMG	RL Collar m	547.3
Northing m	5685034.4	Bearing Collar	292 (mag)
Easting m	378610.4	Dip Collar	75
DH Survey Type	Eastman Camera	Length Hole m	566.2

Depth m	Bearing (mag.)	Dip	Depth m	Bearing	Dip
50	292	62			
100	291	61½			
150	293	61			
200	294	61			
250	296	60			
300	299	59½			
350	301	59			
400	303	58			
450	304	57			
500	306	57			
550	307	56½			

SIGNIFICANT INTERSECTIONS

From m	To m	Interval m						Comments

SIGNIFICANT CORE LOSS

From m	To m	% Lost
271.7	273.3	25

POOR GROUND CONDITION ZONES

From m	To m	Condition
240	285	Faulted, broken ground (hard to cement hole)
Within Rhyolite Lavas.		Bit life well below average in these rocks.

HOLE SIZE

Size	Depth m
HQ	55.5
NQ	566.2

HOLE CONDITIONS AFTER COMPLETION

Collar	PVC Casing
Steel Casing	—
PVC Casing	0 - 566.2m
Ground Water	
Wedge	
Drill Pad	

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. BPD 72

PROJECT: BURN'S PEAK.

Graphic Scale 1:250

Page 1 of 12

CORE RECOVERY				DESCRIPTION						CODES			
From m	Interval m	%	RQD	From m	Interval m	(incl. LITHOLOGY, STRUCTURE & ALTERATION)	Depth	Graphic Lithology	Struct.	MINERALISATION	LITHO	STRUCT	ALTN	MIN
0	20.3			0	20.3	Pink and pale green breccia, composed of quartz-feldspar phyric fragments. Matrix of the same composition. Clast boundaries often diffuse. Extensive sericite alteration of the matrix and some clasts. Pink + siliceous alteration of the other clasts. Mod-intense CO_3 veining. 0-13.0m; weathered, broken. 13.0-26.45m; broken. TRICONE; 0- m HQ CORE FROM m. RHYOLITE BRECCIA.	20.3	.06 .5 2 8 32						
				20.3	30.9	passing down into conglomerate. Clasts are qtz. and feld. phyric rhyolite. Matrix is fine + siliceous. Broken ground and fault, 25.5-26.7. Intense, green sericite and CO_3 alteration assoc. with fault.	23.7 25.5 26.7		Fault 30°					
						RHYOLITE SANDSTONE/CONGLOMERATE.	30.9		Bdg. 78°					
				30.9	32.7	Green/Pink, bedded, w/ll sorted, RHYOLITE SANDSTONE (sor rounded)	32.7			32.7 Trace pyrite as				
				32.7	43.5	Breccia of qtz-feld phyric rhyolite clasts, 1-400mm. Intense sericite/CO_3 alteration and veining. Feldspars => CO_3. Broken ground	40			disseminations				
						RHYOLITE BRECCIA.	43.5 44.1			41.3				
				43.5	44.1	RHYOLITE SANDSTONE.	49.4		Bdg. 80°					
				44.1	49.4	Upward fining sequence of RHYOLITE CONGLOMERATE/ SANDSTONE/MUDSTONE. Well sorted, bedded. Strongly sericitic clasts at base. Erosional b and graded bedding indicates facing uphole.	51.2 55.5 59.2		Fault 55°					

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. BPD 72

PROJECT: BURN'S PEAK

Graphic Scale 1:250

CORE RECOVERY				DESCRIPTION						CODES			
From m	Interval m	%	RQD	From m	Interval m	(incl. LITHOLOGY, STRUCTURE & ALTERATION)	Depth	Graphic Lithology	Struct.	MINERALISATION	LITHO	STRUCT	ALTN	MIN
				49.4	55.5	Dark grey SANDSTONE, rhyolite fragments abundant, also some sediment clasts. Erosional base indicates uphole facing. Quartz-filled fault with slickensides at 51.2 m. 55.5m REDUCE TO NQ.	60.2 65.2	.06 .5 2 8 32	Main fault 10° q vein 15°	65.2 Rare, small clasts py, sph + gn.				
				55.5	55.6	Dark grey MUDSTONE.	70.5			70.5				
				55.6	58.2	green RHYOLITE SANDSTONE.			CO_3 stringers are 40°					
				58.2	64.2	SANDSTONE of rhyolite and sediment fragments, brecciated by adjacent fault. BRECCIATED SANDSTONE.	75.6 76.8 77.3			75.6 Some mudstone clasts				
				64.2	65.2	FAULT ZONE, Dense network of quartz carbonate veins. Fine fault gauge with some sediment clasts. Very broken ground.	82.7 83.3 83.35		Foliation 30° Fault q-ca-py 40° Fault q, slz 65° Breaks 30-45° Veins dip 55°	Lightly pyritic. Trace of sph in some of these. 82.7 Bdd py in mudst. clasts 83.3 84.35 Patches dk gy, f.g. 84.65 Sulphide 86.8 fine, dark gy subpht. 87.7 assoc. ē py stringers.				
				65.2	70.5	Buff coloured, extremely fine grained rock. Clastic texture where the grain size is large, elsewhere the texture is "cherty" and siliceous. Rare ?clasts of sulphide and chloritic volcanics. VOLCANIC (?RHYOLITE) SILTSTONE								
				70.5	75.6	Breccia, composed of quartz and feldspar-phyric clasts, some flow banded. Strong patchy, chlorite/sericite/carbonate alteration. Carbonate stringers throughout. RHYOLITE BRECCIA.								
				75.6	82.7	Polymict breccia, comprising rhyolite and mudstone/siltstone clasts (dark grey-black). Clast size; 2-500mm. Interval of bedded sediment, 76.8-77.3 ?clast. Chlorite alteration of the volcanic clasts. Broken ground. Weak foliation developed	120.2							

5 cm

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. BPD 72

PROJECT: BURN'S PEAK

Graphic Scale 1:250

0094

129096

CORE RECOVERY				DESCRIPTION						CODES			
From m	Interval m	%	RQD	From m	Interval m	(incl. LITHOLOGY, STRUCTURE & ALTERATION)	Depth	Graphic Lithology	Struct.	MINERALISATION	LITHO	STRUCT	ALTN	MIN
				82·7	83·3	Fault bounded block of dark green quartz sandstone. Larger clasts of grey mudstone with bedded pyrite. SANDSTONE.		06 52 8 32						
				83·3	83·35	FAULT. Mixture of sheared seds + rhy. breccia. Intense qtz-Cx veining. Broken ground. Slickensides on qtz veins + breaks.	130·7			130·7 Rare py clasts. Tr. f.g. disp py in seds. Minor gn/sph assoc c qtz/Cx veins.				
				83·35	130·7	Pale green-pink, brecciated appearance. Clasts, 2-80mm, are fels, qtz-phyric, some are flow banded. In places there is no clear definition between clasts and matrix. Matrix also qtz-fels phyric in part, elsewhere, very fine silica/sericite. RHYOLITE LAVA BRECCIA. Patchy sericite alteration throughout, in places assoc. with dark chlorite. Elsewhere rock is pink + siliceous.	132·6 133·7 135·3 136·9 137·0 137·4 139·6 141·8 148·2 149·2 154·6 157·9 160·5 160·7 162·0 163·0 163·3 164·6 167·2 168·0 168·3 169·5 169·7		Bdg 20° Fault 8mm Cb/ss 25° foliation 15° Contact 75° Veinlets (q-cb) 70-80°	141·8 q/Cx veins. Tr. gn in qtz-Cx veins. Dark blebs of sph + gn @ 163·6-168·2.				
				130·7	141·8	This interval consists of alternating bands of green felsic-qtz phyric, sericitised + chloritised rhyolite breccia and sandstone conglomerate. The latter rock consists of clasts of qtz sandstone, fine siliceous mudstone (light grey) and dark grey mudstone. There are some pyrite clasts. The boundaries between the two rock types are irregular + probably pepperitic. RHYOLITE / SANDSTONE "PEPERITE"			fol'n 40° fol'n 35° fol'n 20° fol'n 20°, 60° fol'n 60°, 10° Fault q/cb 80° foln 10° fol'n 20° fol'n 35° fol'n 5°					
				141·8	148·2	RHYOLITE BRECCIA. Patchy green ser/calcs alteration + pink/siliceous zones occasional, irregularly	179·7							

5 cm

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. BPD72

PROJECT:

Graphic Scale 1:250

CORE RECOVERY				DESCRIPTION							CODES			
From m	Interval m	%	RQD	From m	Interval m	(incl. LITHOLOGY, STRUCTURE & ALTERATION)	Depth	Graphic Lithology	Struct.	MINERALISATION	LITHO	STRUCT	ALTN	MIN
				141.8 (cont)	148.2	bounded sediment intervals. Pink qtz-carb vein, 40mm @ 147.1 m.	141.55 181.8		Bdg 25°	141.55-181.8 Tr. bold. py. Tr. Sph + gal on upper contact.				
				148.2	149.5	Strongly sericitic rock with a strong foliation. No preservation of primary textures (unless foliation is 1°??) ?ALTERED, GLASSY LAVA OR VOLCANICLASTIC. Downhole boundary very sharp ?fault, <1mm			fol/bdg 30° microfits 0-5° Contact 20°	181.8-186.8 Tr. bold py.				
				149.5	154.8	RHYOLITE BRECCIA. Patchy alteration resulting in contrasting green, chlorite/sericite zones & pink siliceous areas. Numerous quartz-carbonate veinlets	186.8 189.2		qtz/carb VN 10°	189.2-198.2 Tr disc. py Tr sph+gal as stringers & spots.				
				154.8	157.9	As above with some clasts of light grey, siliceous mudstone and dark grey sandstone From 157.4 a foliation is developed, qtz-carb. veins stretch out parallel to this.	198.2 198.5 205.8		fol 30°	198.2-198.5 Tr py.				
				157.9	169.7	Alternating intervals of RHYOLITE BRECCIA and foliated, strongly sericitic ?ALTERED, GLASS LAVA OR VOLCANICLASTIC. The latter contain ?tube pumice (suggesting the volclastic interpretation), they may also be clasts as one of the intervals does not go right through the core. All the boundaries are sharp, though irregular. The foliation is also irregular and wavy in places. This, and the lack of any foliation in the Breccia suggests that it may be a primary feature. Lower boundary faulted.			qtz/carb vns 80° qtz/carb vns 60° qtz/carb vns 60°	237.0-239.0 Tr sph/gn assoc. with veining.				

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. BPD 72

PROJECT :

Graphic Scale 1: 250

CORE RECOVERY				DESCRIPTION						CODES			
From m	Interval m	%	RQD	From m	Interval m	(incl. LITHOLOGY, STRUCTURE & ALTERATION)	Depth	Graphic Lithology	Struct.	MINERALISATION	LITHO	STRUCT	ALTN	MIN
				169.7	179.7	Pale pink-green rock consisting of pink, siliceous zones and strongly sericitic zones. A strong foliation is developed This is wavy and inconsistant in places, it may represent a primary feature. Some possible ?clasts of tube pumice. Elsewhere textures have been masked by the alteration. ?ALTERED GLASSY VOLCANIC, PROBABLY VOLCANICLASTIC			cleavage predom. 60°.					
				179.7	181.55	Mixture of dark grey, siliceous, buff coloured zones and sericitic, wispy patches. ?ALTERED GLASSY VOLCANIC, PROBABLY VOLCANICLASTIC.								
				181.55	181.8	Dark grey, bedded, MUDSTONE/SILTSTONE. Upper contact is a hairline fault								
				181.8	186.8	Rock consists of light grey siliceous zones, mixed with pale green, wispy, sericitic zones. Wisps have a consistent orientation ?POSSIBLY A MIXTURE OF GLASSY VOLCANIC & SILICEOUS MUDSTONE.								
				186.8	187.2	Grey bedded SANDSTONE. Bedding slightly transposed on microfaults. Bottom contact faulted.	200		ft. bedg. 35° ft. bedg. 45°					

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. BPD 72

PROJECT :

Graphic Scale 1: 250

CORE RECOVERY				DESCRIPTION						CODES			
From m	Interval m	%	RQD	From m	Interval m	(incl. LITHOLOGY, STRUCTURE & ALTERATION)	Depth	Graphic Lithology	Struct.	MINERALISATION	LITHO	STRUCT	ALTN	MIN
				187.2	189.3	Rounded, fine grained siliceous fragments, grey and buff in a sericitic matrix. DEFORMED + ALTERED ?GLASSY VOLCANICLASTIC.	303.7		Fl. body 30°	303.7-332.0				
				189.3	198.2	Buff, fine grained, siliceous zones in a sericitic matrix. In places here are rounded, fine grained, grey sediment clasts and quartz-feldspar phyric rhyolite clasts. ALTERED VOLCANICLASTIC.				Rare traces Sph+gal assoc. c cb/qtz stringers.				
				198.2	198.5	FAULT ZONE. Vuggy quartz + carbonate vein.								
				198.5	205.8	Wispy, sericitic and chloritic fragments, some with tube pumice textures in a fine, siliceous, sericitic matrix. RHYOLITIC, RHYOLITIC VOLCANICLASTIC. Broken ground strong sericite alteration; 204.0-205.8m.	337.0							
				205.8	257.8	Pink to green breccia, composed of quartz-feldspar rhyolite fragments in a matrix of the same. Clasts are slightly more siliceous, matrix sericitic. RHYOLITE LAVA BRECCIA	348.9		Fault + a Contact 15°					
							354.1		Fault a contact 35°	Tr. Sph + gal on fault.				

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. BPD 72

PROJECT :

Graphic Scale 1: 250

Page 7 of 12

CORE RECOVERY				DESCRIPTION						CODES			
From m	Interval m	%	RQD	From m	Interval m	(incl. LITHOLOGY, STRUCTURE & ALTERATION)	Depth	Graphic Lithology	Struct.	MINERALISATION	LITHO	STRUCT	ALTN	MIN
						209.2-209.4 Zone quartz/chlorite/carbonate veining 1-30mm.	361.2		bdg 50	361.2-371.5 Tr. sph + gal throughout in clots + assoc. ē q-ch stringers				
						212.2-225.6 Zone of quartz/carbonate stringers (1mm) and veins (to 200mm) chlorite and sericite in some of these			bdg 15					
									bdg 80					
							371.5		contact 50°	371.5-386.0 Sph + gal along bdg. planes 372.7-372.9, 373.5-375.4 376.1-376.2 377.2-379.9 380.5-380.7 381.85-383.0. assoc ē cil, chy beds				
						213.3-216.0 Broken ground.			bdg 30					
									bdg 35					
						237.6-239.0 Strong qtz-carbonate veining hair line-180mm. associated with enhanced carbonate alteration			bdg 25					
									bdg 25					
									bdg 0					
							386.0		bdg 30					
							391.8							
						239.0-257.8 Carbonate veining, 4 veins/m	393.5							
				257.8	303.7	Highly siliceous, pink and green, quartz-feldspar phyric, flow banded RHYOLITE LAVA. Many feldspars altered to chlorite & sericite.	400.4			257.8-303.7 Rare traces Sph + gal assoc. with qtz/carb. stringers. Esp. 284.0-285.0				
						262.8-265.5 Broken Ground.	402.1 402.3							
						262-275- Streaky sericite alteration associated with fine fracturing. Minor qtz/carb veining throughout (stringers)								
						Good flow banding on bottom contact.	411.4							
							420.							

1291100

5 cm

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. BPD 72

PROJECT :

Graphic Scale 1: 250

CORE RECOVERY				DESCRIPTION						CODES			
From m	Interval m	%	RQD	From m	Interval m	(incl. LITHOLOGY, STRUCTURE & ALTERATION)	Depth	Graphic Lithology	Struct.	MINERALISATION	LITHO	STRUCT	ALTN	MIN
				303·7	337·0	Breccia, monomict, defined by alteration zones. Some are pink and/or grey and siliceous. Others are green and sericitic. Both zones are feldspar and quartz phyric. Some quartz phenocrysts 1-1·5 mm. RHYOLITE LAVA BRECCIA.								
				337·0	348·9	As above, RHYOLITE LAVA BRECCIA with rare sediment clasts - fine grained, grey, sandstone & mudstone & pink rhyolitic sandstone. From 346·8, ground is broken. This is accompanied by strong clay and sericite alteration. Bottom contact faulted.	448·9							
				348·9	354·1	Very fine grained, pale green/pink rock, probably RHYOLITIC SANDSTONE, though sedimentary textures are not obvious. Bottom contact faulted.								
				354·1	361·3	RHYOLITE LAVA BRECCIA (as above) with zones of rhyolitic sandstone. ?Probably clasts, however these have irregular boundaries, maybe soft sediment deformation. On the other	450		Cal's 35°					

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. BPD 72

PROJECT :

Graphic Scale 1: 250

CORE RECOVERY				DESCRIPTION						CODES			
From m	Interval m	%	RQD	From m	Interval m	(incl. LITHOLOGY, STRUCTURE & ALTERATION)	Depth	Graphic Lithology	Struct.	MINERALISATION	LITHO	STRUCT	ALTN	MIN
						hand, the fine grained lithology is possibly a rapidly chilled version of the Rhyolite lava. Bottom contact broken.								
				361·3	371·5	Sequence of interbedded RHYOLITE LAVA and even grained SANDSTONE. There are also coarser, sericitic sediments with no internal bedding. The contacts between the Rhyolite & sediments are irregularly shaped.	489·7							
						365·5-365·6 is a dark grey, very fine, siliceous sediment. Flame structure here suggests uphole facing. Bottom contact possibly an eroded surface / scour channel, also suggests up hole facing.	502·0							
						Minor density stg/carb stringers throughout.	510·7		bdg 20° bdg 30° fault/contact 65° cg in 100	504·4-504·6 g vng & tr. Py, Sph. 510·4-510·6 1% diss py in dk gy sed. 510·7-539·0 tr sph + gal & some carbonate spots.				
				371·5	386·0	Well bedded sediments; green sericite & buff ?rhyolitic SANDSTONE. Very fine, siliceous (cherty), grey MUDSTONE. Strongly sericitic zone on upper contact. Grading here indicates down hole facing.	539·0	540						
				386·0	411·6	Overall upward fining unit. Coarse towards base, with very fine								

1291102

5cm

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. BPD 72

PROJECT :

Graphic Scale 1: 250

CORE RECOVERY				DESCRIPTION							CODES			
From m	Interval m	%	RQD	From m	Interval m	(incl. LITHOLOGY, STRUCTURE & ALTERATION)	Depth	Graphic Lithology	Struct.	MINERALISATION	LITHO	STRUCT	ALTN	MIN
				386.0	411.6(est)	siliceous beds near the top, at 390.4, 390.7 & 392.6-392.9m. DACITE BRECCIA - SANDSTONE. Clasts are pink siliceous or green sericitic, feldspar phyric. Well bedded in sandstone part of unit. The finest beds carry sph & galena as veinlets. They also exhibit soft sediment deformation. Grades down into :-	540.5 541.3 541.9 545.4 546.4 555.9 556.2 557.6-8 557.9 558.0 559.9 560.1	4x mafic dykes.	Dyk contacts Top 30° Btm 30° Both 30° Both 50° Top 40° Btm irreg.	? opposite sense.				
				411.6	448.9	Pink and green DACITE BRECCIA. Pink siliceous & green sericitic, feldspar phyric clasts in a fine, buff coloured matrix. 432-440m qtz/carb. veining 6/m 3-7mm. Grades into :-				565.0 - 566.2 - Tr. sph + gal with carbonate spots.				
				448.9	469.7	Finer grained, feldspar phyric ?flow banded (could be foliation) DACITE LAVA BRECCIA. Clasts are not as well defined as in previous unit. Structure - Carbonate altered especially 463.9 - 469.7, where there is intense veining. Broken ground accompanies particularly strong alteration from 485.2 - 487.2m.	566.2 E.O.H.							

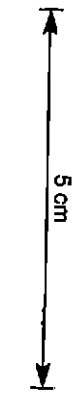
PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. BPD 72

PROJECT :

Graphic Scale 1: 250

CORE RECOVERY				DESCRIPTION						CODES			
From m	Interval m	%	RQD	From m	Interval m	(incl. LITHOLOGY, STRUCTURE & ALTERATION)	Depth	Graphic Lithology	Struct.	MINERALISATION	LITHO	STRUCT	ALTN	MIN
				489.7	502.0	As above DACITE LAVA BRECCIA with intervals of fine grained, bedded, sandstone & mudstone. Thought to be clasts. Their boundaries are irregular & bedding is disrupted within them ? soft sediment incorporation of seds into lava.								
						Broken ground 492.7 - 494.4								
				502.0	510.7	Interval of very odd rocks! Very fine grained, strongly chloritic & sericitic mudstone. Bedded. Some coarser beds of sandstone & some intervals with larger, rounded grey sediment clasts, also some dacite clasts. At 506.5m there is a basalt or andesite clast. Very strong chlorite alteration 508.4 - 510.7. At 507.4 ? deformed quartz vein								
				510.7	539.0	Massive interval of feldspar phyric rock with a very fine, siliceous buff coloured groundmass. Wispy zones of sericite & chlorite. Some of these contain tubules. The zones themselves are up to 45mm wide. Particularly good tube texture at								



PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. BPD 72

PROJECT :

Graphic Scale 1: 250

CORE RECOVERY				DESCRIPTION						CODES			
From m	Interval m	%	RQD	From m	Interval m	(incl. LITHOLOGY, STRUCTURE & ALTERATION)	Depth	Graphic Lithology	Struct.	MINERALISATION	LITHO	STRUCT	ALTN	MIN
				510.7	539.0 (cont.)	536.5m. Numerous, rounded, carbonate spots throughout, range in size from 4-15mm. DACITIC, PUMICEOUS VOLCANICLASTICS 516m 30mm Carb. vein.								
				539.0	566.2	As above but contains some much finer-grained intervals, which are not as abundant in green wispy zones. Carbonate spots throughout, 4-20mm. Here are DACITIC, PUMICEOUS VOLCANICLASTICS. Here are four intervals within this unit that have a fine, volcanic texture and are highly carbonate/chlorite altered. All except one have sharp contacts. Probable MAFIC INTRUSIONS @ 556.7-556.9 557.6-557.8 557.9-558.0 559.9-560.1. 561.7-563.0 strong carb. veining 566.2m END OF HOLE.								