HOLE No. BPD75

PASMINCO EXPLORATION
DIAMOND DRILL CORE RECORD

LOCATION	TASMANIA
PROJECT	BURNS PEAK
PROSPECT	HOLLWAY
DESIGNED BY	LINDSAY W KIRSNER
LOGGED BY	LINDSAY W KIRSNER
RELOGGED	
COMMENCED	15 JUNE 1992
COMPLETED	10 JULY 1992
DRILLED BY	DIAMOND DRILLING TAS.
DRILL RIG	LONGYEAR 38

OBJECTIVE

To test the source of anomalous base metal geochemistry at the surface, near the contact between the Hollway Andesite and dacites of the CVC & to intersect that contact.

To test down-dip extensions of weak, near surface EM conductors.

RESULT

Minor, vein-gash style sphalerite and galena mineralisation in sericitic intermediate lavas was intersected over 2 to 3 metres, from 302m down-hole. Minor disseminated pyrite throughout the length of the hole. Andesite lavas and breccias dominate and inter-finger with dacites near the base of the hole.

LOCATION/SURVEY DATA (AMG)

Grid	AMG		RL Collar m 415.8
Northing m	5 383 744.1		Bearing Collar 145°
Easting m	378 804.4		Dip Collar -60°
DH Survey Type	EASTERN CAMERA		Length Hole m 349.5m

Depth m	Bearing	Dip	Depth m	Bearing	Dip
50	148	-58.5			
100	152	-58			
150	153	-57			
199	152	-56			
250	155	-56			
301	156	-55			
349	156	-56			

SIGNIFICANT INTERSECTIONS

From m	To m	Interval m	Cu	Pb	Zn			Comments
303.0	304.0	1.0	34	2100	9300			gash veinlets

SIGNIFICANT CORE LOSS

From m	To m	% Lost

POOR GROUND CONDITION ZONES

From m	To m	Condition

HOLE SIZE

Size	Depth m
HW	0-3m
HQ	3-51.5m
NQ	51.5-349.5m

HOLE CONDITIONS AFTER COMPLETION

Collar	PVC-HW SIZE 0-3.0 metres
Steel Casing	
PVC Casing	32mm, Class 9, "Vinidex" 0-349.5 (for DHEM)
Ground Water	Nil
Wedge	Nil
Drill Pad	Vehicular Access Maintained

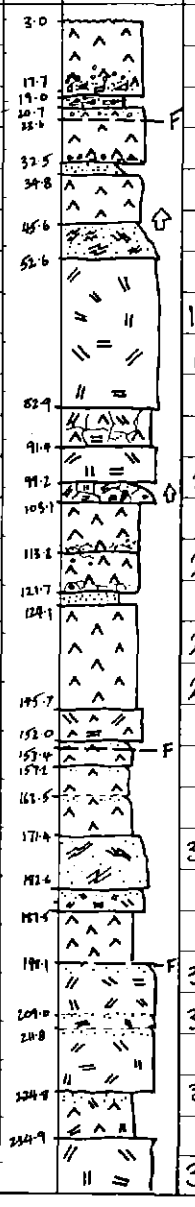
HOLE No. BPD 75

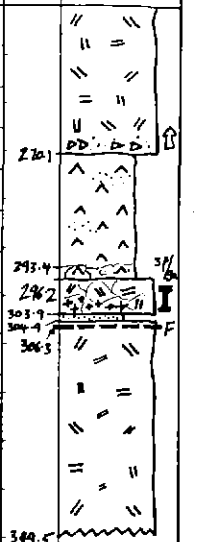
MASMINCO EXPLORATION
SUMMARY DIAMOND DRILL CORE LOG

PROJECT: Burns Peak

Graphic Scale 1: 1000

From m	Interval m	Code	Description
0·0	3·0	—	No Core
3·0	16·0		• Pillowed Andesite Lava
			– feldspar & pyroxene porphyritic; variably amygdaloid-
			al; some hyaloclastic zones (inter-pillow); basal
			breccia from 17·7 to 19·0m.
19·0	1·7		• Polymict Medium/coarse Epiclastic
			– dacitic clasts; feldspar crystals & some andesitic
			content. Clasts up to 5 cm across. Minor pyrite.
20·7	2·9		• Pillowed Andesite Lava
			– amygdaloidal; hyaloclastic & massive; ±pyrite.
23·6	0·1		• Fault – pug & gravel – at 48° to LCA.
23·7	8·8		• Pillowed Andesite Lava
			– amygdaloidal; feldspar + pyroxene crystalline; ±pyrite;
			Mostly massive, but with hyaloclastic flow base from 320.
32·5	2·3		• Polymict Medium/coarse Epiclastic
			– uphole fining; lmm to 100mm clasts. Pyritic.
34·8	10·8		• Pillowed Andesite Lava.
45·6	7·0		• ?Pumiceous Mass Flow
			– pyritic; "wispy" texture; matrix-supported; feldspathic
52·6	50·5		• Dacite Lavas & Lava Breccia.
			– strongly silicified locally, pale pink/white colour,
			destextured; some flow banding; traces of pyrite; some
			inter-flow breccia zones; minor chlorite-sericite alteration.
103·1	18·6		• Pillowed Andesite Lava.
121·7	2·4		• Polymict Epiclastic/Peperite
			– pillow margin zone/between flows. Incorporates silic-
			eous clasts up to 3mm size.
124·1	21·6		• Pillowed Andesite Lava
			– amygdaloidal, feldspathic, some silicification.
145·7	6·3		• Andesite/Dacite? Lava
			– feldspathic; non-amygdaloidal; less mafics.
152·0	1·4		• Hyaloclastic Andesite
153·4	0·1		• Fault – clay & gravel – at 35° to LCA.
153·5	17·9		• Pillowed Andesite Lava
171·4	11·2		• ?Pumiceous Mass Flow
			– variably silicified; feldspathic; wispy clasts;
182·6	4·9		• Dacitic Lava & Lava Breccia.
187·5	10·6		• Pillowed Andesite Lava
198·1	0·1		• Fault – clay pug & gravel.
198·2	26·6		• Dacitic Lava & Lava Breccia
224·8	10·1		• Andesite/Dacite? Lava
			– siliceous, amygdaloidal lava.
234·9	35·2		• Dacite Lava.
			– feldspathic; some flow banding;
270·1	26·1		• Pillowed Andesite Lava
296·2	7·7		• Dacitic Breccia – ?mass flow
			– sericite altered; particularly 301-305m.
			Sphalerite & Galena in gash veins 303·2-304·2m
			forms ≈ 2% locally. Minor pyrite.
303·9	1·0		• Gravelly Sandstone
			– epiclastic; poorly sorted; andesite & dacite clasts,
			mainly feldspathic. Sericite altered.
304·9	0·7		• Dacitic Breccia
305·6	0·7		• Fault Zone
			– clay pug & gravel, sericitic.
306·3	43·2		• Dacitic Lavas & Lava Breccias.
			– variably silicified; feldspathic; minor flow banding.
349·5	EOH		





5 cm

041087

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. BPD 75

PROJECT: Burns Peak

Graphic Scale 1: 100

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
				0.0	3.0	NO CORE RECOVERED (TRICONE BIT)		NO CORE						
				3.0	14.7	ANDESITE LAVA & HYALOCLASTIC BRECCIA.								
						- highly weathered to clayey; feldspar crystal-rich; green to beige coloured; manganese/iron oxide stained (particularly on joints); some massive lava intervals; some coarse breccia characterised by pale pink feldspathic clasts up to 3cm across in a fine-grained green matrix; mafic crystals (? pyroxene) occur sporadically throughout the interval, particularly within the lava zones. Quartz ± carbonate amygdales; up to 4mm across; spherical & some slightly elongate, from ≈ 14 metres onward.	3.0							
							10m							
				17.7	1.3	ANDESITIC HYALOCLASTITE - FLOW BASE								
						- less weathered & broken core than above, better recovery. Generally dark green feldspar-porphyritic, non-amygdaloidal andesite hyaloclastic breccia - possibly the base of a lava flow (above). Includes ≈ 3% crystallite ? pyroxene and 25 to 30% feldspar crystals. Maximum crystal size ~ 2mm. Some quartz-chlorite veining & crystal-filled vughs (brittle, late stage). Upper and lower contacts at low angle to LCA (long core axis) & conformable.								
										5 cm				
				19.0	1.7	POLYMICT MEDIUM TO COARSE EPICLASTIC	19.0							
						- incorporates pink quartz & feldspar-phyric dacitic to rhyolitic clasts up to 5cm across in a dark green, fine grained feldspathic matrix. Unit is a possible flow-margin epiclastic, incorporating clasts	20m		Z	1-2% pyrite-dissem; on fractures & as blebs or aggregates (20.0m)				
							20.7							

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Graphic Scale 1:100

CORE RECOVERY				DESCRIPTION						CODES			
From m	Interval m	%	RQD	From m	Interval m	(incl. LITHOLOGY, STRUCTURE & ALTERATION)	Depth	Graphic Lithology	StrucL	MINERALISATION	LITHO	STRUCT	ALTN	MIN
						of local rock types. Disseminated pyrite 1 to 2% at 20.0m; also pyrite on thin fractures & small blebs of aggregated pyrite up to 3mm across (eg 20.3m)	23.6	F	Fault @ 48° to LCA.	<1% fine dissem. pyrite 23.7 to 25.0m				
				20.7	2.9	PILLOWED ANDESITE LAVA - mostly massive, dark grey-green feldspar phyric andesite lava. Amygdaloidal - from 20.7m - 21.6m - with qtz ± carbonate fill, 1-5mm across, spherical to slightly elongate or flattened, form 1-3% of volume of rock. Higher concentration and larger amygdales near pillow margins. Monomict lava breccias - hyalo-clastite - form inter-pillow breccias, and contain up to 2% pyrite (eg: 21.6 - 21.7).	30m							
							32.0			<1% disseminated pyrite + coarser pyrite on clast boundaries				
							32.5							
				23.6	0.1	FAULT - 48° to LCA. - grey clay & gravel pug zone with associated chlorite-epidote alteration. Little to no ductile deformation outside clay zone ⇒ late stage, brittle (This structure may explain the SIROTEM feature)	34.8			traces of pyrite on veinlets				
				23.7	8.3	MASSIVE ANDESITE LAVA. - dark grey, unaltered, quartz-carbonate amygdaloidal (2-5%; 1 to 10 mm across typically), feldspar + pyroxene crystalline - fine grained ~ 0.25 to 0.5 mm crystals. Includes fine grained disseminated pyrite down to 25.0m (<1%). Fine carbonate ± chlorite veinlets criss-cross core. No pillow margins or brecciation evident. Feldspar crystals become coarser and more prominent (≈1-2mm) below ~ 27.6m and	40m			5 cm				
							45.6							

FALCONBRIDGE EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. BPD 75

PROJECT: Burns Peak

Graphic Scale 1: 100

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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
						become finer again below ~28.9m.							
						29.6 to 29.7m :- brittle carbonate vein incorporating angular fragments of andesite lava (in unbroken core).							
						(lithogeochem & thin section sample # 032996 @ 29.7→30.3m)							
				32.0	0.5	ANDESITIC HYALOCLASTITE – FLOW BASE.	50m						
						- quench fragmented lava breccia. Monomict, amygdaloidal andesitic lava fragments in massive grey/green matrix. Broken							
						core with iron oxide stains on breaks. Many unfilled	52.6						
						vughs (weathered out) in paler leached zone. Lower							
						contact has a vein at 35° to LCA on it.							
				32.5	2.3	POLYMICT MEDIUM TO COARSE EPICLASTIC.							
						- on lower margin of overlying lava. Unsorted, subangular							
						clasts ranging in size from 100mm across to < 1mm.							
						Generally 3–10mm in size. Hints of upward fining							
						with a larger proportion of clasts >25mm near the base.							
						Minor fine-grained disseminated pyrite & some coarser	60m						
						pyrite on clast boundaries. Traces of chalcopyrite.							
						Clasts comprise: 20% Dacitic Lava							
						10% qtz-fsp porphyry							
						10% amygdaloidal andesite							
						10% pale grey silica							
						10% massive orange siliceous clasts							
						5% feldspar crystals (<2mm)							
						5% dark green chloritic clasts							
						30% matrix (too fine grained to identify).							
						- Lower contact is veined at ~20° to LCA.							

5 cm

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Graphic Scale 1: 100

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
				34.8	10.8	PILLOWED ANDESITE LAVA.								
						-Amygdaloidal, fine-grained feldspar ± pyroxene phyric, intermediate lava, with inter-pillow hyaloclastic breccias. Some paler clasts with fine quartz amygdales (eg: 35.3–38.1m). Minor pyrite on veins that form ~ 2% of rock. Lava becomes less amygdaloidal below 42.9m & coarser grained in this zone, with a less "glassy" look to it (⇒ possibly approaching the base of the flow?). Base incorporates deformed clasts of underlying unit. (⇒ upward younging).	70m							
				45.6	7.0	MEDIUM GRAINED ? PUMICEOUS MASS FLOW								
						-pyritic (1–2%), coarse (~1mm) & disseminated plus veinlet-controlled. Minor chalcopyrite in ? acid–intermediate clastic rock.	80m							
						-Texturally, a "wispy" appearence, matrix-supported, grey medium grained (1–4mm) volcaniclastic of possible pyroclastic origin. Likely pumiceous mass flow, but discrete pumice clasts hard to identify. Clasts include irregular, deformed (while hot) glassy, black & up to 5cm long, forming 2–5% and contain crystal feldspars. Upper contact is conformable, with minor erosion; Lower contact is obscured by massive silicification (from 50.5m). Contact possibly sub-parallel to core, from 50.5m to 52.6m. (Lithogeochem & thin section sample # 032997 @ 490–494)	82.9			5 cm				
				52.6	30.3	DACITE LAVA (& LAVA BRECCIA).	90m							
						- variably silicified, (generally strongly), pale pink to white ?acid–intermediate volcanic... Detextured by massive silicification, with few hints of precursor lithol-	91.9							

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Graphic Scale 1: 100

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
						ogy. Less silicified zones are minor and appear as grey sericitic, possibly flow-banded feldspathic ? dacite lavas. (eg: 53.3m, 57.8m, 59.6m) Minor pyrite on tiny gashes and veins. Silicified feldspars present locally. Some hints of primary brecciation.			chl-sil					
						(lithogeochem & thinsection sample #032998 @ 78.15→78.55m)								
				82.9	8.5	• ?DACITE LAVA BRECCIA.								
						- Conformable contact at ~20° to LCA juxtaposes overlying dacite lava with coarse monomict lava breccia that includes grey silicified matrix between pink massive lava clasts. Base is a coarser, possibly andesitic breccia (91.2 – 91.4m). Basal contact at ~35° to LCA	99.2							
							100m							
							100.3							
							103.1							
				91.4	7.8	• DACITE LAVA.								
						- grey/green colour, "sandy" appearence (altered glassy zones?) blotchy colouration in patches due to varied chlorite – silica alteration. Blotchy silicification emphasises possible flow bands. Quartz veinlets criss-cross core. Some hints of brecciation at the 2–5cm scale; fine-grained feldspar phenocrysts throughout (<5%). Variable pink silica–albite alteration associated with larger brittle quartz veins. Sharp lower contact at 40° to LCA.	110m							
						• DACITE LAVA BRECCIA – ?EPICLASTIC BASE.								
				99.2	3.9	- poorly sorted, sub-angular, silicified, pink-grey, feldspathic lava breccia. Variably oriented flow-banded clasts. (includes FAULT – brittle/gravel/clay at 100.3–100.4m)	113.2							
						- finer grained epiclastic base with sub-rounded quartz-silica fragments; indicates upward-younging.								

5 cm

5 cm

041092

FALCONBRIDGE EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. BPD 75

PROJECT: Burns Peak

Graphic Scale 1:100

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
				103·1	10·1	ANDESITE LAVA - ?PILLOWED.							
						- sharp upper contact at 40° to LCA. 1mm-sized mafic crystals in green-grey feldspathic, fine-grained matrix. Becomes silicified, pink, possibly flow banded and detextured below ~104.0m. No apparent discontinuities in rock type, but brecciated coarse (hyaloclastic) in part.	120	hem/alb	pyritic ~119.8m in inter-pillow zone.				
				113·2	8·5	PILLOWED ANDESITE LAVA.							
						- similar contact at 113·2 to that at 103·1m ⇒ conformable lava flow / pillow margin. Non-amygdaloidal, but includes mafic & feldspar crystals in a fine-grained matrix.	121·7	chl/sil					
						- Again, a coarser breccia base with clasts of underlying lithology ⇒ upward younging. Variably silicified, but contains distinct pillow margins with dark chlorite staining eg: 113·8m, 115·0m, 119·5m etc. Highly pyritic at 119·8m in one of the hyaloclastic inter-pillow zones. Strong pink hematite/albite alteration 119·7–121·0m in a ?more permeable inter-pillow zone (channels hydrothermal fluids).	124·1						
						(lithogeochem & thin section sample #032999 @ 118·6–118·9m)	130		5 cm				
				121·7	2·4	POLYMICT EPICLASTIC / PEPERITE.							
						- some epiclastic content in a pillow margin zone. Chlorite-silica altered, with andesitic and siliceous clasts; angular and up to 3mm across.							
				124·1	21·6	PILLOWED ANDESITE LAVA.							
						- grey, unaltered, contains mafic crystals (?pyroxene), fine-grained feldspars. A few small amygdales ~1–2mm across, & more concentrated on pillow margins - silicified typically. Pink colour in silicified pillow margin zones eg: 127·8–128·0; 129·5–129·9; 132·7–133·2. Clast-rich pillow margins contain flow-banded &							

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Graphic Scale 1:100

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
						amygdaloidal angular clasts in dark grey-green, chloritic matrix. Qtz-carbonate veining throughout interval							
				145.7	6.3	• ANDESITE / DACITE ? LAVA * (sample *033000)	140						
						- Non-amygdaloidal andesite to dacite lava - with coarse feldspar & less prominent mafic crystals. Pinkish grey colouration. Some jointed - broken core & chlorite alteration on minor quartz veinlets. 150.2m - alteration front & ? flow banding / flow boundary between massive siliceous dacite lava above and feldspathic dacite lava below. "Contact" at 20° to LCA.	145.7						
				152.0	1.4	• HYALOCLASTIC ANDESITE BRECCIA							
						- Mafic crystal-rich clasts, often pink (albitised) in dark grey chloritic matrix. Some flow banded clasts.							
				153.4	0.1	• FAULT ZONE							
						- at 35° to LCA. Brittle, with some quartz & chlorite veining developed. Zone filled with clay & gravel clasts.	150		* (lithogeochem & thin section sample * 033000 @ 151.2-151.5)				
				153.5	3.7	• ANDESITE LAVA.							
						- massive, variably amygdaloidal, grey, mafic & feldspar crystal-bearing, much quartz-carbonate veining & brittle deformation (⇒ proximity to Fault). Conformable lower contact.	152.0						
				157.2	6.3	• PILLOWED ANDESITE LAVA.	153.4	F					
						- bleached & weakly altered with coarse brecciated top. Silicified down first 10 cm. Pale cream/pink colour, with sericite alteration. Flow banding and minor brecciation near base of first pillow (~163.0m). (lithogeochem. & thin section sample *032391 @ 161.2-161.8)	157.2						
				163.5	7.9	- Zone of overlapped pillows with hyaloclastic / brecciated top, incorporating ? dacite clasts. Quartz & feldspar coarse amygdales at 164.5m in inter-pillow zone. Variably amygdaloidal	160						

5 cm

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From m	Interval m	%	RQD	From m	Interval m	(incl. LITHOLOGY, STRUCTURE & ALTERATION)	Depth	Graphic Lithology	Struct.	MINERALISATION	LITHO	STRUCT	ALTN	MIN
						and brecciated with hyaloclastic zones between massive pillows. Basal 30cm has prominent coarse clastic breccia.								
				171·4	11·2	? PUMICEOUS MASS FLOW								
						- Detextured by silicification down to 180·6m. Cream coloured, blotchy appearance, siliceous, massive, coarse brecciated top (~1·5m). No mafics evident, but silicified feldspars prominent. Hints of flow banding, no amygdales. Below 180·6m randomly oriented, faintly banded pale clasts of possible tube pumice. Unit is continuous 171·4 to 182·6 so textures at base assumed to be present but masked higher up...	163·5							
				182·6	3·2	MASS FLOW LAVA BRECCIA (PEPERITIC TOP) DACITIC	170							
						- medium grained, epiclastic mass flow with some coarse angular siliceous lava fragments. Varied silicification throughout. Some more mafic & quartz fragments near top (sediment matrix?) grading to a coarser, more prominent lava content down-hole ⇒ upward coarsening. Feldspar phenocrysts from 185·8 onward indicate the top of the dacite lava proper.	171·4							
				185·8	1·7	DACITE LAVA.								
						- Variably silicified, pink, feldspathic, massive lava. Some quartz-carbonate veining.	180							
				187·5	10·6	PILLOWED ANDESITE LAVA.	180·6							
						- Dominantly hyaloclastic andesite lava breccias, with occasional "foreign" clasts (siliceous) - generally coarse, angular, mafic-crystal-bearing, dark grey, pink and cream colouration in clasts. Minor massive amygdaloidal lava zones	182·6							

5 cm

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From m	Interval m	%	RQD	From m	Interval m	(incl. LITHOLOGY, STRUCTURE & ALTERATION)	Depth	Graphic Lithology	Struct.	MINERALISATION	LITHO	STRUCT	ALTN	MIN
						(eg. 189.9 – 191.3 m). Some sericitic zones giving a "sandy" appearence in breccia zones. More pink and siliceous near base of unit.	185.8							
				198.1	0.1	FAULT ZONE	187.5							
						- clay pug zone with gravel-sized clasts in a grey sheared soft to semiconsolidated rock.	190							
				198.2	10.8	DACITE LAVA FLOW								
						- coarse lava breccia at top of interval, with pink feldspathic & siliceous clasts in grey, fine-grained matrix. Grades down to a more massive feldspar-phyric lava, containing up to 40% feldspars (at 2–3 mm diameter). Whole unit is crossed by fine carbonate-quartz veinlets								
				209.0	2.8	DACITE LAVA FLOW	198.1		F	5 cm				
						- coarse brecciated top (209.0 – 210.1m) grades into a massive lava with variable pink silicification & minor sericite alteration.	198.2 200							
				211.8	14.0	DACITE LAVA FLOW								
						- Dacitic hyaloclastic lava breccia down to 217.7m, overlying a grey, massive, feldspathic, occasionally flow-banded dacite lava. (thin section & lithogeochem sample # 032392 @ 220.7 to 221.15m)								

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Graphic Scale 1:100

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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
				224·8	10·1	• DACITE / ANDESITE? PILLOWED LAVA.								
						- some mafic cryptals and amygdales below a coarse to medium-grained (gravel-sized (3mm)) flow top - possibly peperitic. Main lava is massive, grey, feldspathic, possibly pillowed, with pink-clast bearing zones between more massive zones.	209·0							
							210							
							211·8							
				234·9	35·2	• DACITE LAVA.								
						- Dotextured, feldspathic, pink-albitised, variable degree of primary brecciation; some pale sericitic zones. Chlorite on some joints, and minor carbonate veinlets. Feldspars are silicified & some appear as quartz. Possible (minor) primary quartz phenocrysts.								
							220							
						- Flow-banded and variably silicified from 267.3 onward. Minor chlorite, some "gravelly" brecciation near base, which incorporates andesite lava clasts. Sharp lower contact which is conformable ⇒ uphole younging. (at 270.1m)								
						*(thin section & lithogeochem sample # 032393 @ 254.5 to 255.1 m).	224·8		⇧					
							230							

5 cm

PROJECT: Burns Peak

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. BPD 75

Graphic Scale 1: 100

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

SEE PREVIOUS PAGE

230

234.9

240

250

5 cm

PROJECT: Burns Peak

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. BPD 75

Graphic Scale 1: 100

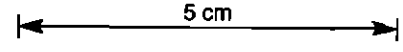
CORE RECOVERY				DESCRIPTION							CODES			
From m	Interval m	%	RQD	From m	Interval m	(incl. LITHOLOGY, STRUCTURE & ALTERATION)	Depth	Graphic Lithology	Struct.	MINERALISATION	LITHO	STRUCT	ALTN	MIN
							260							
				270.1	23.3	• PILLOWED ANDESITE LAVA - pale to dark grey, mostly non-amygdaloidal feldspar + pyroxene phenocrysts, very fine grained matrix. Variable amounts of interpillow "mixed breccia" near the more pink-coloured zones. Variable, but minor amount of fine amygdales in massive zones. Some fine disseminated pyrite. Fine carbonate veinlets throughout. (thin section & lithogeochem. samples numbered: - 032394 @ 278.0 to 278.5 - 032395 @ 286.5 to 286.95)	267.3 270 270.1			5 cm				

FASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. BPD 75

PROJECT: Burns Peak

Graphic Scale 1: 100

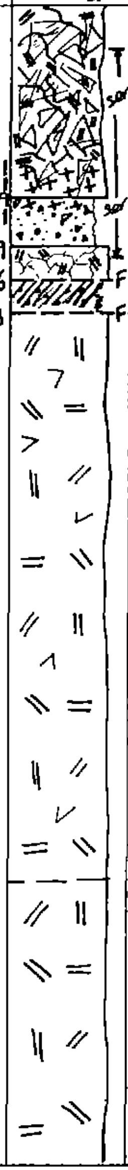
CORE RECOVERY				DESCRIPTION						CODES			
From m	Interval m	%	RQD	From m	Interval m	(incl. LITHOLOGY, STRUCTURE & ALTERATION)	Depth	Graphic Lithology	Struct.	MINERALISATION	LITHO	STRUCT	ALTN	MIN
				293.4	2.8	ANDESITIC LAVA BRECCIA. - Hyaloclastic, coarse, basal to lava flows above. Silicified, with stronger veining and incorporating brittle tectonic breccias.	280 290 293.4 296.2							

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. BPD 75

PROJECT: Burns Peak

Graphic Scale 1: 100

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
				296.2	7.7	DACITIC LAVA BRECCIA - MASS FLOW? - grey, soft, clayey, feldopathic brecciated dacite lava, possibly mass-flow emplaced. Chlorite-sericite alteration dominates silica alteration to peak in the interval:- 301.0 to 305.0 m. - 303.2 to 304.2 m – Sphalerite & Galena on gashes and veins, forming up to 2% over some 10-20 cm intervals. Minor pyrite. No disseminated mineralisation. (samples* 032991 → 032995, 1 m intervals, from 300.0 m to 305.0 m, assayed for Cu, Pb, Zn, Ag, Au).	300 303.4 304.9 305.6 306.3 310		sp, gn tr py F F	Sphalerite & Galena on gashes & veins ± pyrite.				
				303.9	1.0	GRAVELLY SANDSTONE. - Epiclastic, gravelly sandstone, poorly sorted, with clasts of ?andesite & dacite, mainly feldspathic. Sericite altered. Some mineralisation.			ser/sil					
				304.9	0.7	DACITE LAVA BRECCIA. - as above (in the interval 296.2-303.9) but unmineralised.								
				305.6	0.7	FAULT ZONE. - clay- & gravel-rich, pale, sericitic brittle fault. (The extension of this feature to surface may explain the coincident UTEM/SIROTEM features on line 2750.) - This fault is possibly "the contact"	320							

5 cm

041101

PROJECT: Burns Peak

PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. BPD 75

Graphic Scale 1: 100

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
						between CVC dacites below & the Hollway Andesite, above...								
				306.3	43.2	• DACITE LAVAS & HYALOCLASTIC LAVA BRECCIAS.								
						- variably silicified, with minor sericite alteration, feldspar-phyric, pink to grey, massive, (minor) flow banded or brecciated "typical" central volcanic Complex dacitic (to rhyolitic) lavas and lava breccias....	330			5 cm				
				349.5	-	END OF HOLE								
							340							

HOLE No. BPD 75

FASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

PROJECT: Burns Peak

Graphic Scale 1: 100

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
							349.5 EOH			5 cm				

HOLE No. BPD 75

PASMINCO EXPLORATION
DIAMOND DRILL CORE ASSAY DATA

PROJECT: Burns Peak

SAMPLE						ASSAYS (ppm unless specified)															COMMENTS
Number	Type	From m	To m	Interval m	Recovered m	Cu	Pb	Zn	Ag	Au	Rb / Sr	Y / Zr	Ba / V	Al_2O_3 / SiO_2	TiO_2 / Fe_2O_3	MnO / CaO	K_2O / MgO	P_2O_5 / SO_3	Na / LOI		
032991	½ core	300·0	301·0	1·0	1·0	6	25	100	<1	<0·008				% / %	% / %	% / %	% / %	% / %	% / %		
032992	"	301·0	302·0	1·0	1·0	12	28	83	<1	<0·008											
032993	"	302·0	303·0	1·0	1·0	5	56	235	<1	<0·008											
032994	"	303·0	304·0	1·0	1·0	34	2100	9300	2	<0·008											
032995	"	304·0	305·0	1·0	1·0	11	50	290	<1	<0·008											
										TOTAL %											
032996	½ core	29.7	30·3	0·6	0·6					100·08	85 / 150	30 / 140	360 / 320	16·90 / 47·8	0·93 / 13·33	0·39 / 4·44	1·83 / 3·92	0·469 / 8·06	3·06 / 6·99		thin section & petrography undertaken for samples 032996 to 033000 & 032391 to 032397 (Dr. AJ Crawford, Tas Uni, August/Sept 1992)
032997	"	49·0	49·4	0·4	0·4					100·11	140 / 90	35 / 220	410 / <5	10·69 / 72·7	0·22 / 3·14	0·27 / 2·67	2·65 / 1·62	0·023 / 0·22	1·60 / 4·31		
032998	"	78·15	78·55	0·4	0·4					99·93	120 / 130	35 / 240	360 / <5	12·47 / 79·1	0·25 / 1·98	0·11 / 1·84	2·76 / 0·38	0·024 / 0·10	3·08 / 3·30		
032999	"	118·6	118·9	0·3	0·3					100·29	70 / 190	35 / 85	530 / 320	11·66 / 53·2	1·21 / 10·24	0·36 / 2·20	1·87 / 2·64	0·239 / 0·77	4·80 / 5·07		
033000	"	151·2	151·5	0·3	0·3					100·36	50 / 360	20 / 95	520 / 270	17·34 / 48·5	0·74 / 10·92	0·41 / 4·89	1·39 / 3·20	0·221 / 0·10	5·47 / 7·22		
032391	"	161·2	161·8	0·6	0·6					100·01	140 / 50	25 / 180	1700 / <5	9·82 / 78·2	0·19 / 2·56	0·07 / 0·75	4·87 / 0·62	0·020 / 0·03	0·47 / 2·41		
032392	"	220·7	221·15	0·45	0·45					100·35	35 / 320	35 / 110	320 / 40	17·54 / 52·6	1·05 / 9·66	0·34 / 3·41	0·77 / 2·39	0·353 / 0·02	6·92 / 5·27		
032393	"	254·5	255·1	0·6	0·6					100·36	100 / 75	30 / 300	200 / 6	14·39 / 71·6	0·95 / 1·55	0·11 / 1·37	2·09 / 0·50	0·047 / 0·06	5·32 / 5·00		
032394	"	278·0	278·5	0·5	0·5					100·19	65 / 220	35 / 170	310 / 360	16·76 / 44·5	1·16 / 15·98	0·31 / 3·79	1·06 / 4·79	0·528 / 0·07	4·43 / 6·83		
032395	"	286·5	286·95	0·45	0·45					100·26	35 / 270	45 / 180	260 / 100	17·03 / 55·2	0·81 / 9·09	0·24 / 2·89	0·86 / 2·18	0·359 / 0·16	6·93 / 4·97		
032396	"	310·0	310·4	0·4	0·4					100·37	190 / 70	40 / 210	580 / 55	15·70 / 58·2	0·68 / 8·69	0·27 / 2·76	4·12 / 2·32	0·245 / 0·29	0·91 / 6·71		
032397	"	333·7	334·3	0·6	0·6					100·15	140 / 130	35 / 240	470 / <5	12·95 / 73·4	0·25 / 1·85	0·12 / 1·66	2·64 / 0·54	0·024 / 0·10	3·75 / 2·90		
										(0X408 0·01%)											
Laboratory	ANALABS			Analytical Method		GA140	GA140	GA140	GA140	9S309	9X401	9X401	9X401	0X409	0X408	0X408	0X408	0X408	0X408		
Job-No.	111310·60·08912	Date	24/8/92	Detection Limit		2	3	2	1	0·008	5 / 5	5 / 5	10 / 5	0·05% / 0·1%	0·01% / 0·01%	0·01% / 0·01%	0·01% / 0·01%	0·005% / 0·01%	0·05 / 0·01%		

PASMINCO EXPLORATION
DIAMOND DRILL HOLE SUPPLEMENTARY DATA

PROJECT : Burns Peak

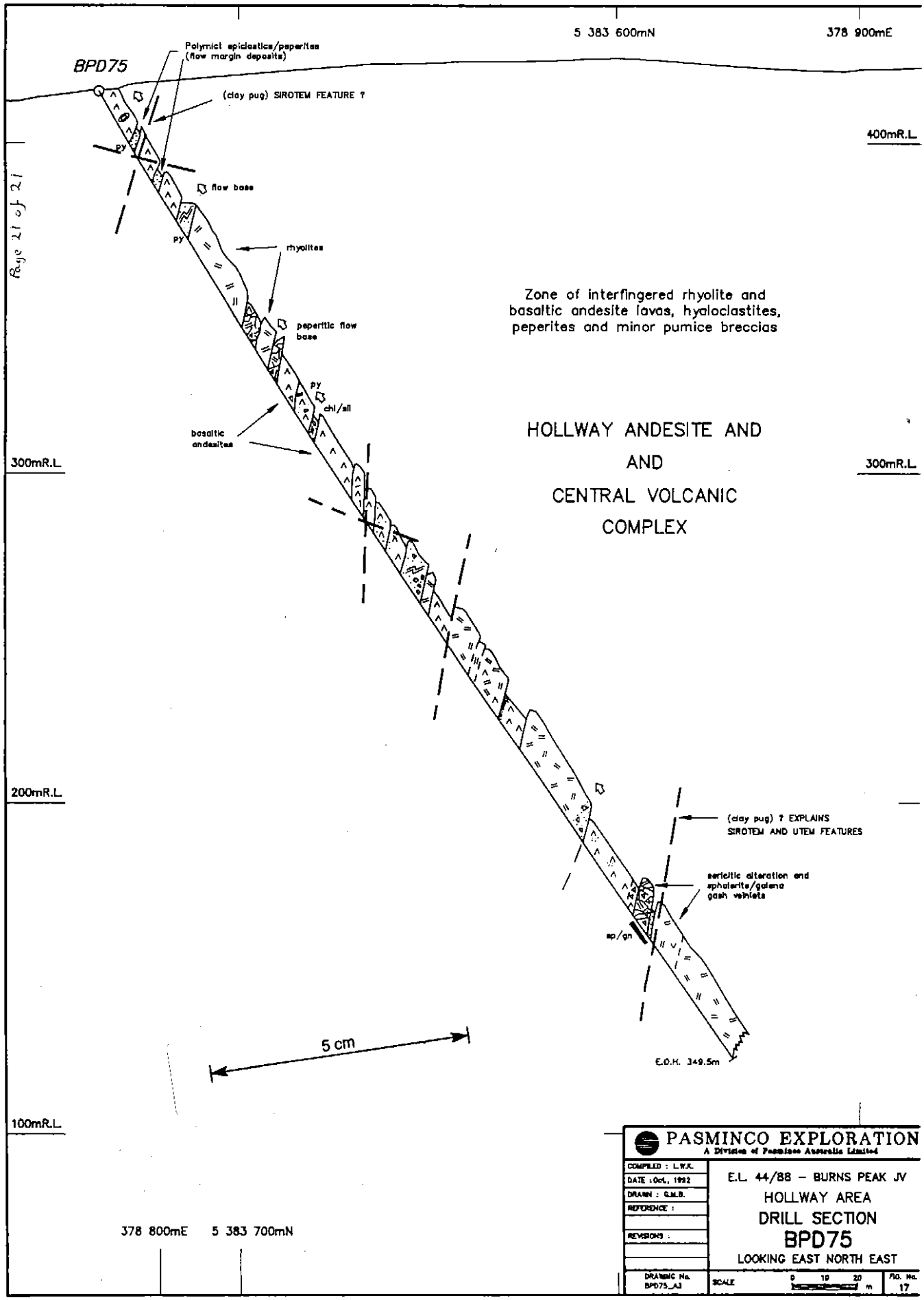
HOLE No. BPD 75

CORE PROCESSING RESULTS				DRILL HOLE		BPD-75		PROCESSED BY		C. ARCHER		
CORE RECOVERY				M.SUS ($SI \times 10^{-3}$)		S.G		ENTERED BY		C. ARCHER		
										SAMPLING INTERVALS		
FROM	TO	REC	%REC	DEPTH	M.SUS	DEPTH	WEIGHT	VOL	S.G	FROM	TO	TICKET #	COMMENTS
3	6	1.1	36.67	6	NIL				0.00				
6	7.8	0.8	44.44	7.8	NIL				0.00				
7.8	9	0.9	75.00	9	NIL				0.00				
9	11	1.9	95.00	11	NIL				0.00				
11	14.7	3.7	100.00	14.7	0.28				0.00				
14.7	18	2.5	75.76	18	0.13				0.00				
18	19	0.9	90.00	19	NIL				0.00				
19	20.6	1.7	106.25	20.7	1.48				0.00				
20.6	23.1	2.4	96.00	23.1	0.39				0.00				
23.1	24	0.80	88.89	24	2.18				0.00				
24	27	3	100.00	27	2.95				0.00				
27	30	3	100.00	30	2.45				0.00	29.7	30.3	32996	SPLIT-CORE-HQ
30	33	3	100.00	33	0.03				0.00				
33	35.7	2.7	100.00	35.7	0.04				0.00				
35.7	38.8	3.1	100.00	38.8	0.06	40.25	1075	386	2.78				
38.8	42	3.1	96.87	42	1.43				0.00				
42	45	3	100.00	45	0.36				0.00				
45	48	3	100.00	48	0.02				0.00	49	49.4	32997	SPLIT-CORE-HQ
48	51	3	100.00	51	0.02				0.00				
51	51.5	0.4	80.00	51.5	0.02				0.00				
51.5	54.6	3.1	100.00	54.6	0.01				0.00				
54.6	55.5	0.9	100.00	55.5	0.02				0.00				
55.5	58.5	2.9	96.67	58.5	0.01				0.00				
58.5	61.4	3	103.45	61.4	0.01				0.00				
61.4	64.4	3	100.00	64.4	0.01				0.00				
64.4	67.5	2.95	95.16	67.5	0.01				0.00				
67.5	70.5	3.1	103.33	70.5	0.01				0.00				
70.5	73.5	3	100.00	73.5	0.01				0.00				
73.5	76.5	2.95	98.33	76.5	0.01				0.00				
76.5	79.5	3	100.00	79.5	0.01	80.1	591	223	2.65	78.15	78.55	32998	SPLIT-CORE-NQ
79.5	82.5	3	100.00	82.5	0.02				0.00				
82.5	85.5	3	100.00	85.5	0.02				0.00				
85.5	88.5	3	100.00	88.5	0.02				0.00				
88.5	91.5	3	100.00	91.5	0.02				0.00				
91.5	94.5	3	100.00	94.5	0.02				0.00				
94.5	97.5	3	100.00	97.5	0.02				0.00				
97.5	100.5	3	100.00	100.5	0.02				0.00				
100.5	103.5	3	100.00	103.5	0.06				0.00				
103.5	106.5	3	100.00	106.5	0.01				0.00				
106.5	109.5	3	100.00	109.5	0.01				0.00				
109.5	112.5	3	100.00	112.5	0.02				0.00				
112.5	115.5	3	100.00	115.5	0.03				0.00				
115.5	118.5	3	100.00	118.5	0.05	119.85	395	148	2.67				
118.5	121.5	3	100.00	121.5	0.08				0.00	118.6	118.9	32999	SPLIT-CORE-NQ
121.5	124.5	3	100.00	124.5	2.24				0.00				
124.5	127.5	3	100.00	127.5	0.08				0.00				
127.5	130.5	3	100.00	130.5	0.04				0.00				
130.5	133.5	3	100.00	133.5	0.6				0.00				
133.5	136.5	3	100.00	136.5	0.06				0.00				
136.5	139.5	3	100.00	139.5	0.1				0.00				
139.5	142.5	3	100.00	142.5	0.46				0.00				
142.5	145.5	3	100.00	145.5	2.49				0.00				
145.5	148.5	3	100.00	148.5	0.32				0.00				
148.5	151.2	2.7	100.00	151.2	1.37				0.00	151.2	151.5	33000	SPLIT-CORE-NQ
151.2	154	2.8	100.00	154	0.07				0.00				
154	157.1	3.1	100.00	157.1	0.07	160	616	234	2.64				
157.1	160.2	3.1	100.00	160.2	0.02				0.00				
160.2	163.3	3.1	100.00	163.3	0.05				0.00	161.2	161.8	32391	SPLIT-CORE-NQ
163.3	166.2	2.9	100.00	166.2	0.03				0.00				
166.2	169.3	3.1	100.00	169.3	0.07				0.00				
169.3	172.4	3.1	100.00	172.4	0.03				0.00				
172.4	175.5	3.1	100.00	175.5	0.04				0.00				
175.5	178.5	3	100.00	178.5	0.01				0.00				
178.5	181.5	3	100.00	181.5	0.02				0.00				
181.5	184.5	3	100.00	184.6	0.04				0.00				
184.5	187.5	3	100.00	187.5	0.03				0.00				

CORE PROCESSING RESULTS				DRILL HOLE		BPD-75		PROCESSED BY		C. ARCHER		
CORE RECOVERY				M.SUS ($SI \times 10^{-3}$)		S.G		ENTERED BY		C. ARCHER		
										SAMPLING INTERVALS		
FROM	TO	REC	%REC	DEPTH	M.SUS	DEPTH	WEIGHT	VOL	S.G	FROM	TO	TICKET #	COMMENTS
187.5	190.5	2.95	98.33	190.5	0.06				0.00				
190.5	193.5	3	100.00	193.5	0.05				0.00				
193.5	196.5	3	100.00	196.5	0.05				0.00				
196.5	199.5	3	100.00	199.5	0.04	200	692	254	2.72				
199.5	202.5	3	100.00	202.5	0.08				0.00				
202.5	205.5	3	100.00	205.5	0.64				0.00				
205.5	208.5	3	100.00	208.5	0.07				0.00				
208.5	211.5	3	100.00	211.5	0.05				0.00				
211.5	214.5	3	100.00	214.5	0.06				0.00				
214.5	217.5	3	100.00	217.5	0.04				0.00				
217.5	220.5	3	100.00	220.5	1.04				0.00				
220.5	223.5	2.95	98.33	220.5	2.63				0.00	220.7	221.15	32392	SPLIT-CORE-NQ
223.5	226.5	3	100.00	226.5	1.95				0.00				
226.5	229.5	3	100.00	229.5	1.35				0.00				
229.5	232.5	3	100.00	232.5	0.4				0.00				
232.5	235.5	3	100.00	235.5	0.02				0.00				
235.5	238.3	2.8	100.00	238.3	0.02	240	412	156	2.64				
238.3	240.4	2.05	97.62	240.4	NIL				0.00				
240.4	242.1	1.7	100.00	242.1	0.02				0.00				
242.1	243.6	1.4	93.33	243.6	0.01				0.00				
243.6	244.5	0.9	100.00	244.5	NIL				0.00				
244.5	245.7	1.2	100.00	245.7	0.01				0.00				
245.7	248.8	3.2	103.23	248.8	0.01				0.00				
248.8	250.4	1.7	106.25	250.4	0.01				0.00				
250.4	253.5	3	96.77	253.5	0.02				0.00	254.5	255.1	32393	SPLIT-CORE-NQ
253.5	256.5	3.1	103.33	256.5	0.01				0.00				
256.5	259.5	3	100.00	259.5	0.01				0.00				
259.5	262.5	3	100.00	262.5	0.02				0.00				
262.5	265.5	3	100.00	265.5	0.02				0.00				
265.5	267.8	2.3	100.00	267.8	0.01				0.00				
267.8	270.9	3.1	100.00	270.9	0.04				0.00				
270.9	274	3.1	100.00	274	0.07				0.00				
274	277.1	3.1	100.00	277.1	1.68	280	520	193	2.69				
277.1	280.2	3.1	100.00	280.2	1.14				0.00	278	278.5	32394	SPLIT-CORE-NQ
280.2	283	2.8	100.00	283	0.02				0.00				
283	285.5	2.5	100.00	285.5	0.75				0.00				
285.5	286.7	1.2	100.00	286.7	0.65				0.00	288.5	286.95	32395	SPLIT-CORE-NQ
286.7	289	2.2	95.65	289	0.31				0.00				
289	291.9	2.9	100.00	291.9	0.06				0.00				
291.9	295.1	3.1	96.87	295.1	0.02				0.00				
295.1	297.7	2.6	100.00	297.7	0.08				0.00				
297.7	300.7	3	100.00	300.7	0.02				0.00	300	301	32991	SPLIT-CORE-NQ
300.7	303.7	3	100.00	303.7	0.01				0.00	301	302	32992	SPLIT-CORE-NQ
303.7	307.5	3.6	94.74	307.5	0.01				0.00	302	303	32993	SPLIT-CORE-NQ
307.5	310.5	3	100.00	310.5	0.02				0.00	303	304	32994	SPLIT-CORE-NQ
310.5	313.5	2.95	98.33	313.5	0.02				0.00	304	305	32995	SPLIT-CORE-NQ
313.5	316.5	3	100.00	316.5	0.01				0.00	310	310.4	32396	SPLIT-CORE-NQ
316.5	319.5	3	100.00	319.5	0.01	320	670	253	2.65				
319.5	322.5	3	100.00	322.5	0.01				0.00				
322.5	325.5	3	100.00	325.5	0.03				0.00				
325.5	328.5	3	100.00	328.5	0.05				0.00	333.7	334.3	32397	SPLIT-CORE-NQ
328.5	331.5	3	100.00	331.5	0.05				0.00				
331.5	334.5	3	100.00	334.5	0.02				0.00				
334.5	337.5	3	100.00	337.5	0.02				0.00				
337.5	340.5	3	100.00	340.5	0.02				0.00				
340.5	343.5	3	100.00	343.5	0.02				0.00				
343.5	346.5	3	100.00	346.5	0.01				0.00				
346.5	349.5	3	100.00	349.5	0.02				0.00				

041105

041106



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