845076

PASMINCO EXPLORATION
DIAMOND DRILL HOLE LOG

Hole ID
BPD79

DRILLING

Location	EL44/88 BURNS PEAK
Project	BURNS PEAK
Prospect	BROWN'S TUNNEL
Design By	R.A.Poltock
Logged By	R.A.Poltock
Relogged	
Commenced	25th October 1993
Completed	29th November 1993
Drilled By	Contract Diamond Drilling (F.ORTNER)
Drill Rig	Longyear 44 (equivalent)

OBJECTIVE

An along strike (100m north) test of the copper rich stringer zone and massive sulphide intersected in BPD78. BPD79 was collared 100m north of BPD78.

RESULT

The Brown's Tunnel sequence intersected was very similar to that in BPD78 but the mineralized intervals had thinned to a few cms of stringer zone and 1m of massive pyrite.

COLLAR SURVEY (AMG)

AMG mN	5384792.7	Bearing	102.0
AMG mE	377432.2	Dip	-55.0
mN	0.0	Hole Length	574.5
mE	0.0	DH Survey Type	Single shot East
RL	459.3		

DOWNHOLE SURVEY (AMG)

Depth	Bearing	Dip
0.0	-55.00	102.00
52.0	-55.00	102.00
100.0	-53.00	103.00
151.0	-53.00	103.00
199.0	-53.00	104.00
250.0	-52.00	104.00
301.0	-51.00	106.00
352.0	-51.00	107.00
400.0	-50.00	109.00
451.0	-47.00	111.00
499.0	-46.00	112.00
550.0	-43.00	113.00
574.0	-42.00	114.00

SIGNIFICANT CORE LOSS

From	To	Loss

POOR GROUND CONDITION ZONES

From	To	Condition
0	11.8m	Fluvioglacials.

HOLE SIZE

From	To	Size
0	60	HQ
60	574.50	NQ

HOLE CONDITIONS AFTER COMPLETION

Collar	3m of HW plus cap.
Steel Casing	3m of HW
PVC Casing	0 - 574.5m
Ground Water	Nil
Wedge	Nil
Drill Pad	On access track to BPD81, no rehab'.

SIGNIFICANT INTERSECTIONS

From	To	Int	Cu	Pb	Zn	Ag	Au	Comments
355.00	360.00	5.0m			2.73%			Disseminated sulphides in pumice breccias at the base of the Pinnacles Rhyolite.
383.00	386.00	3.0m			0.32%	20g/t		Sericitized pumice breccias, the interval includes 1m of massive pyrite.

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Vertical Scale 1 : 200

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
0.00	11.80	FLUVIOGLACIAL DEPOSITS CONTACT: Conformable abrupt,			0			
11.80	14.10	ACID VOLCANICLASTIC Cream, Feldspar phyric, Very weathered. CONTACT: Gradational,			10			
14.10	19.10	ACID VOLCANICLASTIC Brown, Weathered with limonite on joints. CONTACT: Gradational,						
19.10	46.90	ACID VOLCANICLASTIC Pink, Grey, Medium grained, Massive, Lithic, Feldspar phyric, Groundmass fine grained with feldspar crystals to 3mm and scattered chloritized mafics? set in very fine ganular quartz sericite matrix. Clasts monomict subrounded, <75mm diameter, feldspar phyric, some flow banded, similar to matrix. CONTACT: Gradational,		VEIN, quartz chalcopyrite sphalerite	20			

5 cm

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PASMINCO EXPLORATION
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Vertical Scale 1 : 200

HOLE No. BPD79

PROJECT: BURNS PEAK

DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					30			
					40			
					50			
46.90	72.20	ACID VOLCANICLASTIC Pink, Orange, Medium grained, Massive, Lithic, Feldspar phyric, Monomict similar to unit above but different alteration style. Alteration is pink and may be albite or K feldspar. CONTACT: Gradational, Gradational with shearing on contact.	Slightly Albitised.	VEIN, quartz Quartz limonite veinlets..				

5 cm

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
				VEIN, quartz Quartz limonite/chlorite veinlets..	60			
					70			
72.20	78.60	ACID LAVA Pink, Green, Fine grained, Peperitic, Feldspar phyric, Quartz phyric, Lava? chilled glassy zones sericitized. Feldspar and quartz phenocrysts <2mm. CONTACT: Gradational,	Slightly Sericitised.					FAULT, A 35, Shear, Sericite.
		MIXED WITH SILTSTONE Grey, Slightly pyritic.						
78.60	174.50	ACID VOLCANICLASTIC Pink, Green, Medium grained, Blocky, Feldspar phyric, Quartz phyric, Lithic, Monomict could be a lava breccia, blocks to 200mm, some flow banded. Sericite alteration is most likely after glass/pumice but could be styolitic. CONTACT: Gradational, Contact defined by alteration change.	Moderately Sericitised.		80			FAULT, A 15, Quartz, Carbonate.

5 cm

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					90			
					100			
					110			

5 cm

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PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG

HOLE No. BPD79

PROJECT: BURNS PEAK

Vertical Scale 1 : 200

DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					120			
					130			
					140			

5 cm

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PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 200

HOLE No. **BPD79**

PROJECT: BURNS PEAK

DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					140			
					150			
					160			

5 cm

PASMINCO EXPLORATION
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PROJECT: BURNS PEAK

Vertical Scale 1 : 200

DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					170			
								FAULT, A 15, Quartz, Carbonate,
174.50	183.60	ACID VOLCANICLASTIC Cream, Yellow, Quartz phyric, Feldspar phyric, Lithic,	Highly Sericitised.					
					180			FAULT, A 20, Pug, Crush zone at approximately 20 to LCA.
								FRACTURE, Annealed, Carbonate, Vein with angular wall rock fragments in carbonate matrix.
183.60	196.30	ACID VOLCANICLASTIC Pale, Pink, Blocky, Monomict CONTACT: Gradational,	Slightly Sericitised.					BEDDING, A 30,
		WITH MINOR SANDSTONE Cream, Bedded, Crystal, Lithic, Sandstone beds between 183.6-184.0, 189.6-190.3 and 193.4-196.3. Graded beds give conflicting facings.			190			
								BEDDING, A 30,

5 cm

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PASMINCO EXPLORATION
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Vertical Scale 1 : 200

HOLE No. BPD79

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
196.30	217.90	ACID VOLCANICLASTIC Cream, Yellow, Flow brecciated, Quartz phyric, Feldspar phyric, Lava breccia some blocks flow banded, sericitic patches may be after glass or styolites. Silicification occurs between 201.7 - 217.9.	Moderately Sericitised, Slightly Silicified,		200			
217.90	220.80	ACID LAVA Pink, Cream, Peperitic, Feldspar phyric, Quartz phyric, CONTACT: Faulted, at 35 degrees to LCA. MIXED WITH CHERT Grey, MIXED WITH SANDSTONE Cream, Coarse grained, Lithic, Quartz phyric, Feldspar phyric,	Carbonatised,	DISSEMINATED, minor pyrite	210			
220.80	255.70	ACID LAVA Cream, Yellow, Fine grained, Flow brecciated, Feldspar phyric, Quartz phyric, Lava massive, styolitic (sericite) to blocky. Blocks of massive, flowbanded and strongly chloritized lava. Varies from aphyric to feldspar>quartz phyric, phenocrysts <2mm.	Sericitised, Moderately Silicified,		220			

5 cm

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Vertical Scale 1 : 200

DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
		strongly chloritized lava. Varies from aphyric to feldspar>quartz phyric, phenocrysts <2mm. CONTACT: Gradational.						
		MIXED WITH CHERT Grey, Peperitic, Minor cherty mudstone peperite between 244.00 and 251.00m		VEIN, sphalerite Sphalerite associated with a narrow silicified shear..	230 240 250			FAULT, A 15, Quartz, Carbonate.

5 cm

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PRSMINCO EXPLORATION
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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
255.70	266.30	ACID LAVA Yellow, Cream, Medium grained, Flow brecciated, Blocky, Feldspar phyric, Abundant feldspar pheno's <3mm. Sericite alteration styolitic or after glass?, silica associated with fine grained pyrite and occuring as a diffuse stockwork. CONTACT: Gradational,	Sericitised, Highly Silicified,		260			FAULT, A 45, Carbonate, Chlorite.
266.30	300.50	ACID LAVA Cream, Pink, Fine grained, Massive, Flow banded, Feldspar phyric, Sparsely feldspar phyric <2mm, feldspars carbonatised. Flowbanding accentuated by sericitization, localized flow brecciation. Fine grained silica pyrite stockworking between 285.00-300.50m.	Sericitised, Moderately Silicified,		270			PRIMARY FABRIC, A 80, Flow banding. PRIMARY FABRIC, A 45, Flow banding.
					280			

5 cm

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PROJECT: BURNS PEAK

Vertical Scale 1 : 200

DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
308.50	308.90	SILTSTONE Grey, Peperitic, Contacts with rhyolite may have been peperitic, but now sericitized and sheared. CONTACT: Conformable mixed,	Moderately Sericitised, Moderately Silicified,		280			VEIN, A 5, Carbonate, Quartz, Carbonate. Vein 1-2cm wide occuring between 285-286m.
308.90	308.00	ACID LAVA Pink, Yellow, Fine grained, Flow brecciated, Feldspar phyric, Texturally variable flow breccia. Silica pyrite alteration as breccia matrix infill ie stockwork. CONTACT: Gradational,			290			BROKEN CORE.
308.00	312.70	ACID VOLCANICLASTIC Yellow, Green, Core sheared and	Sericitised, Silicified,		300			FAULT, A 10, Brittle, Crush zone.

5 cm

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
308.00	312.70	ACID VOLCANICLASTIC Yellow, Green, Core sheared and broken making it difficult to define primary textures. Unit could be peperite or hyaloclastite. Silica sericite alteration associated with fine grained pyrite, alteration accentuates textures. MIXED WITH SILTSTONE	Sericitised, Silicified,		310			
312.70	350.50	ACID LAVA Cream, Brown, Fine grained, Peperitic, Feldspar phyric, Rhyolite sparsely feldspar phyric, feldspar <2mm. Pervasively sericite altered. Blotchy colouring as result of alteration haloes around blocks and silica veinlets. CONTACT: Gradational, MIXED WITH CHERT Grey, Fine grained, Peperitic, Frequently associated with fine pyrite on contacts with lava.	Sericitised, Slightly Silicified,		320 330			BROKEN CORE. FAULT, A 10. FAULT. FAULT, A 30.

5 cm

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
		ACID VOLCANICLASTIC Hyaloclastitic,			340			
		MIXED WITH SANDSTONE						
		SANDSTONE Grey, Brown, Coarse grained, Poorly sorted, Polymict, Clasts include fine grained sediment and sericitized glass. Matrix contains abundant fine pyrite.						
350.50	351.10				350			
351.10	352.30	CONTAINING CLASTS OF SILTSTONE CONTAINING LAMINAE OF Grey,	Slightly Sericitised.					BEDDING, A 60,
352.30	355.50	INTERBEDDED WITH CHERT Grey,						
		ACID LAVA Cream, Pink, Fine grained, Massive, Quartz phyric, Feldspar phyric, Phenocrysts <2mm. Feldspars sericitized. Overall texture massive with fine anastimosing silica alteration /veinlets. Contacts sericitized sheared, sericite after chilled glassy margin. CONTACT: Faulted,						
355.50	359.80		Highly Sericitised, Highly Silicified.	pyrite disseminated, Fine grained massive pyrite + fine silica lenses <50mm wide, associated with blebs/veinlets sphalerite chalcopyrite and pyrite..				
		PUMICEOUS MASS FLOW Cream, Yellow, CONTACT: Faulted,	Moderately Silicified.					FAULT, A 20,
		INTERBEDDED WITH SILTSTONE						PRIMARY FABRIC, A 70,
359.80	369.95	MIXED WITH BRECCIA Soft sedimentary siliceous siltstone breccia.	Sericitised, Slightly Silicified.		360			
		ACID LAVA Cream, Fine grained, Massive, Feldspar phyric, Quartz phyric, Phenocrysts <2mm. CONTACT: Conformable abrupt, Sericitization possibly after chilled glassy margin to flow.						

5 cm

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
		after chilled glassy margin to flow.	Sericitised, Highly Silicified,					
		WITH MINOR SANDSTONE Medium grained, Between 362.7 - 363.1.						
369.95	375.20	SANDSTONE Medium grained,	Sericitised, Highly Silicified.	DISSEMINATED, pyrite With minor semimassive pyrite associated with fine silica. Core cut by sphalerite chalcopyrite veinlets with fine grained silica selveges..	370			FAULT, A 5, Quartz, Chlorite, Minor sphalerite galena chalcopyrite.
		MIXED WITH CHERT Grey, Two lithologies interlayered by faulting.						FAULT, Quartz, Carbonate, Minor sphalerite galena.
375.20	382.10	ACID LAVA Cream, Fine grained, Massive, Feldspar phyric, Quartz phyric, Minor quartz carbonate veinlets. CONTACT: Conformable abrupt, Contact chilled/glassy, sericitized and foliated.	Slightly Sericitised.					
		WITH MINOR SILTSTONE Siltstone 375.50-375.55.	Slightly Sericitised.		380			
382.10	383.60	SILTSTONE Grey, Medium grained,	Moderately Sericitised,	DISSEMINATED, pyrite Disseminated to semimassive pyrite in lenses and pods..				
		MIXED WITH CHERT Grey,		MASSIVE, pyrite Pyrite fine to 4mm cubes set in chlorite matrix. Minor sphalerite blebs..				
384.70	397.70	PUMICEOUS MASS FLOW Cream, Medium grained, Very fine speckling indicative of ash. Scattered fine grained sulfidic clasts? Sericite silica alteration pervasive, with carbonate spots possibly after feldspar phenocrysts.	Moderately Sericitised, Moderately Silicified,	DISSEMINATED, abundant pyrite Trace of sphalerite associated with carbonate spotting..	390			

5 cm

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Vertical Scale 1 : 200

DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
397.70	400.40	PUMICEOUS MASS FLOW Cream, Medium grained,	Moderately Silicified, Moderately Sericitised.					
400.40	402.60	PUMICEOUS MASS FLOW Cream, Medium grained, CONTACT: Conformable mixed, MIXED WITH SANDSTONE Grey, Coarse grained, Polymict, Two main clast types, fine grained siltstone? and feldspar phyric volcanic.	Moderately Sericitised,	DISSEMINATED, pyrite	400			
402.60	425.00	PUMICEOUS MASS FLOW Cream, Fine grained, Medium grained,	Moderately Sericitised,	VEIN, carbonate Carbonate veinlets with pyrite and trace of sphalerite /galena..	410			FAULT, A 60, Core broken with crush zones, the margins of zone at 55-65LCA.
					420			

5 cm

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					420			
425.00	430.90	PUMICEOUS MASS FLOW Cream, Fine grained, Medium grained, Intense sericite pyrite altered bands (30-40LCA) occuring between 425.75-425.90m and 427.40-427.50m.	Intensely Silicified, Intensely Sericitised,	DISSEMINATED, pyrite Minor blebs of pale brown sphalerite, rimmed by dark sphalerite..				FAULT, A 45,
430.90	435.50	PUMICEOUS MASS FLOW Due to alteration intensity it is difficult to determine original lithology. Alternating silica and sericite/chlorite alteration, banding 30-35 LCA. CONTACT: Faulted, Faulted contact at 435.50 marks a major change in lithology and alteration style.	Intensely Silicified, Intensely Sericitised,	DISSEMINATED, pyrite Carbonate veinlets..	430			
				STRINGER, 1% chalcopyrite Ccp stringers associated with intense chlorite alteration..				
435.50	438.70	SANDSTONE Grey, Brown, Fine grained, Coarse grained, Bedded, Lithic, Lithics to 5mm, primarily fine grained sediment. Matrix crystal and finer lithic fragments. Graded turbiditic beds up to 1m thick, uphole facing. CONTACT: Conformable abrupt,	Slightly Sericitised.					BEDDING, D 69. BEDDING, D 79.
438.70	452.40	ANDESITE Grey, Green, Fine grained, Massive, Fuchsite after feldspar/mafic phenocrysts, localized around a carbonate vein between 450.40-450.60m CONTACT: Conformable abrupt,	Moderately Carbonatised. Moderately Fuchsitic.	VEIN, 1% sphalerite pyrite chalcopyrite carbonate Irregular veins / stockwork, <1cm wide.	440			

5 cm

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					450			
452.40	454.00	SILTSTONE Cream, Fine grained, Vitric, INTERBEDDED WITH SANDSTONE Cream, Yellow, Medium grained, Lithic, Lithic fragments in sandstone of sericitized glass (alteration styolites?) and fine grained vitric siltstone.	Slightly Sericitised. Moderately Sericitised.					BROKEN CORE.
454.00	468.60	PUMICEOUS MASS FLOW Grey, Cream, Medium grained, Feldspar phyric, Carbonate veinlets and carbonitized feldspar phenocrysts. CONTACT: Gradational, CONTAINING CLASTS OF CHERT Single 15cm last at 461.80m.	Moderately Sericitised, Moderately Silicified.		460			
468.60	472.00	PUMICEOUS MASS FLOW Grey, Medium grained, Feldspar phyric, CONTACT: Faulted, SILTSTONE Grey, Fine grained, CONTACT: Conformable abrupt, Chilled contact at 20 LCA.	Intensely Sericitised, Intensely Silicified.	DISSEMINATED, 2% pyrite	470			
472.00	472.80	WITH MINOR SANDSTONE Cream, Medium grained, Lithic, Crystal, Lithics mainly cherty pyritic.	Slightly Silicified.	VEIN, carbonate trace sphalerite Disseminated pyrite and massive pyrite bands <1cm at 519.50, 522.50 and 523.60m..				
472.80	473.15							
473.15	474.20	ACID INTRUSIVE Cream, Medium grained, Porphyritic, Feldspar phyric, Quartz phyric, CONTACT: Faulted,	Moderately Silicified.					BEDDING, A 50.
474.20	517.40	SILTSTONE Grey, Fine grained, Bedded, Brecciated, Vitric, Brecciation may be soft sedimentary? CONTACT: Conformable abrupt, Chilled intrusive at 50 LCA.	Moderately Silicified.					

5 cm

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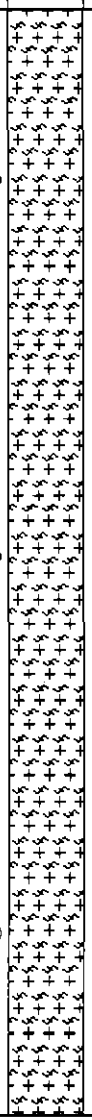
DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
		brecciation may be soft sedimentary? CONTACT: Conformable abrupt, Chilled intrusive at 50 LCA. ACID INTRUSIVE Cream, Medium grained, Porphyritic, Feldspar phyric, Quartz phyric, CONTACT: Conformable abrupt, Sericitized margin of intrusive reflecting chilled glass.			480 490 500			

5 cm

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PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG
Vertical Scale 1 : 200

HOLE No. **BPD79**

PROJECT: BURNS PEAK

DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					510			
517.40	526.50	SILTSTONE Cream, Grey, Fine grained, Bedded, Vitric, Bedding accentuated by cream spotting, may be devitrification. CONTACT: Gradational, Gradational contact associated with sericitization and shearing.	Slightly Silicified,					BEDDING, A 50, BEDDING, A 60,
		INTERBEDDED WITH SANDSTONE Grey, Yellow, Medium grained, Crystal, Pumiceous,	Moderately Sericitised, Moderately Sericitised, Moderately Sericitised,		520			
526.50	534.45	SILTSTONE Grey, Fine grained, Laminated, Carbonatized between 531.50-534.00m. Sandy lenses with carbonate cement/matrix.	Moderately Sericitised,	VEIN, 1% sphalerite carbonate				Grading uphole, BEDDING, D 59, Facing uphole, Load structures, BEDDING, D 69, BEDDING, D 79,
		WITH MINOR SANDSTONE Medium grained, Crystal, Feldspar crystals carbonitized.			530			

5 cm

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From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
		crystals carbonitized.						BEDDING, D 69,
534.45	539.50	SILTSTONE Cream, Grey, Fine grained, Bedded, Vitric, CONTACT: Gradational,		DISSEMINATED, minor pyrite 0.5% in veinlets, sphalerite Sphalerite in irregular carbonate veinlets..				BEDDING, D 69,
		INTERBEDDED WITH SANDSTONE Cream, Medium grained, Bedded, Crystal, Lithic, Clasts <20mm, include fine vitric siltstone and felsic lava?						FAULT, A 20,
539.50	549.80	MASS FLOW Cream, Pink, Bedded, Crystal, Lithic,	Moderately Sericitised,	DISSEMINATED, 1% pyrite sphalerite in veinlets, carbonate Fine grained pyrite, disseminated, blebs and stringers..	540			BEDDING, A 45,
		MIXED WITH SILTSTONE Grey, Siltstone occasionally cherty occurs as disrupted lenses, rafts and clasts in crystal sandstone matrix.						BEDDING, A 15,
								FAULT, A 10,
549.80	551.40	PUMICEOUS MASS FLOW MIXED WITH SILTSTONE Cream, Medium grained, Cleaved, Feldspar phyric, Feldspar crystals slightly carbonitized. CONTACT: Gradational,	Moderately Sericitised,		550			FIRST CLEAVAGE, A 60,
551.40	574.50	PUMICEOUS MASS FLOW Grey, Cream, Medium grained, Massive, Feldspar phyric, Mottled appearance due to silica/sericite alteration. Feldspars carbonated, frequently associated with fine grained sulfide spots.	Moderately Silicified, Slightly Sericitised.					FAULT, A 30,
					560			

5 cm

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DESCRIPTION					GRAPHIC			
From	To	LITHOLOGY	ALTERATION	MINERALISATION	Depth	Lith	Structures	STRUCTURES
					560			
					570			
					580			

5 cm