

**PASMINCO EXPLORATION
SUMMARY DIAMOND DRILL CORE LOG**

HOLE No. BHD 4

PROJECT: SOCK CREEK, BUGOBAC HILL EL

Graphic Scale 1:

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From m	Interval m	Code	Description	Depth	Graphic	From m	Interval m	Code	Description	Depth	Graphic
TABLE 1: SUMMARY LOG OF HOLE BHD4, SOCK CREEK											
AMG Coords: 5392584.3N / 386044.7E, 569.2mRL. Dip: -63°. Azimuth: 115° AMG.											
0	27.4m		PYRITIC BLACK SHALE Common sp-gn veinlets. (Best intersection: 3m @ 0.14% Pb & 0.27% Zn, @ 7.7-10.7m).								
27.4	60.5m		VARIABLE CRYSTAL-LITHIC EPICLASTICS Derived from qtz-feld porphyry. Uphole-fining. Minor py.								
60.5	104m		QUARTZ-FELDSPAR PORPHYRY BRECCIA Quench-brecciation of hot porphyry. V coarse gr. Trace py.								
104	151.9m		QUARTZ-FELDSPAR PORPHYRY Strong silica-albite alteration. No sulphides.								
151.9	179.7m		MIXED MARGINAL PORPHYRY ZONE AND PYRITIC BLACK SHALE Mixed porphyry, porphyry detritus & shale. Minor sp-gn veins.								
179.7	213.4m		QUARTZ-FELDSPAR PORPHYRY Strong silicification. Trace pyrite.								
213.4	236.4m		BLACK SHALE AND VOLCANOMICT EPICLASTIC BRECCIA 1-3% py, cp & sp-gn veinlets, mainly in shale. (Best intersection: 2m @ 0.46% Zn, 221-223m).								
236.4	382.1m		FINELY BRECCIATED NON-PORPHYRITIC RHYODACITE LAVA Quench-brecciated highly vitric lava with quartz amygdales. Strong silica-albite-chlorite alteration. Trace pyrite.								
382.1	489.5m		FELDSPAR-PORPHYRITIC DACITE LAVA Green, silica-chlorite altered. Quartz amygdales. Trace py.								
489.5	616.8m		FINE QUARTZ-MICA SANDSTONE AND BLACK SHALE Sandstone non-volcanic. Shale graphitic & pyritic. Major faulted zone (Sock Creek Fault?) 513 - 523m.								
END OF HOLE											

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PASMINGO EXPLORATION DIAMOND DRILL CORE LOG

HOLE No. **BHD4**

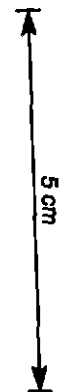
PROJECT: **SOCK CREEK**

Graphic Scale 1: 250

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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	ALTR	MIN
LOG OF HOLE BHD4														
<p>(Note: all rocks in hole lack cleavage).</p> <p>0 - 27.4m: PYRITIC BLACK SHALE Lithology: Badly broken, with clayey zones. Much core loss. Black shale; finely bedded; carbonaceous; pyritic. Fine volcanoclastic sst @ 12 -14.3m: pale yellowish-green; qtzo-feldspathic; with sericitic matrix composed of tiny pumice frags. Alteration: Partially oxidised. Weak limonite stains to 6m. Sst @ 12-14.3m is mod sericitised & bleached. Structure: Bedding (to LCA): 25° @ 8m; 50° @ 18.4m; 45° @ 26.3m. Zones of abund microfracturing, esp above 12m; fracta at all angles, overall zones at low angle to LCA. Faults at top & bottom of sst @ 12-13.4m & 14.3-14.5m (latter 50°/LCA). Basal contact clayey & broken - probable structure.</p> <p>Sampling: 034247-034258 (assay, 0-27.4m).</p> <p>27.4 - 52.85m: GRADED CRYSTAL-LITHIC EPICLASTICS Lithology: Uphole-lining epiclastic detritus largely ex qtz-feld porph. Pale grey; massive; hard. Fine volcanoclastic sst at top, grading to med-coarse gr xyl-lithic sst below 33m, & to xyl-lithic breccia below 50m. Upper sst: even-grained (av <1mm); qtzo-feldspathic; sericitic matrix with abund tiny pumice shards; occ lithic grains (incl black shale). Xyl-lithic sst: feld>qtz xyls & xyl frags, av 1-3mm; minor fi gr lithic grains 1-3mm; silif matrix gen lacking visible pumice. Below 42m angular lithic clasts inc in size & number to matrix-supported breccia below 50m, with clasts av 10-50mm (to 150mm). Clasts: hard, coarse gr, silica-alb alt qtz-feld porph; soft, irreg & equant, sericitic/chloritic qtz-feld porphyritic "stylolitic" types (some wispy-banded); also black shale (semi-lith), li gr silica-alb alt volcs, & carb. Alteration: Mod silicification & weak albite-sericite-chlorite. Carb veins assoc with local weak carbonatisation. Structure: Indistinct bedding in sst (to LCA): 50° @ 31.6m (orientated core: 208°M/13°); 48° @ 40m.</p>														
<p>0 - 12m: 3% ultra fi gr py. dissem & on fracta. Common tiny veinlets of turquoise green mineral >leached qtz, & gn-sp.</p> <p>12 - 14.3m: Minor dissem py.</p> <p>14.3 - 27.4m: 3% ultra fi gr dissem py, occ bedded. Varies from minor to 5-10%. Much less veining than above 12m - only trace green mineral & sp-gn (latter most common in carb veinlets adjacent to basal contact).</p> <p>27.4 - 52.85m: V minor dissem py>sp-gn.</p>														

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PASMINGO EXPLORATION DIAMOND DRILL CORE LOG

HOLE No. *BHD 4*

PROJECT: *SOCK CREEK*

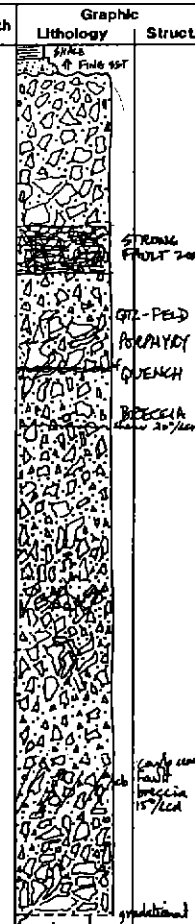
Graphic Scale 1: 250

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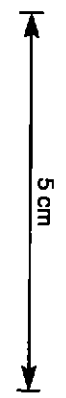
CORE RECOVERY				DESCRIPTION							CODES			
From m	Interval m	%	RQD	From m	Interval m	(Incl. LITHOLOGY, STRUCTURE & ALTERATION)	Depth	Graphic Lithology	Struct.	MINERALISATION	LITHO	STRUCT	ALTM	MIN
						Basal contact abrupt & irreg.	55							
						52.85 - 60.5m: MIXED & DISTURBED ZONE OF SHALE & PORPHYRY-	54							
						DERIVED EPICLASTICS								
						Lithology: Grey, dark grey, & pink.	53							
						To 56.5m: disturbed (soft-sed) dk grey shale bands intermixed with coarse qtz-feld xyl sst;								
						56.5 - 59m: uphole-fining xyl-lithic breccia pulse;	74							
						Below 59m: shale & fine qtzo-feldspathic volcanoclastic sst.								
						Xyl sst: qtz to 6mm, feld to 3mm, packed in sericitic fine pumice matrix.								
						Breccia: abund angular & irreg clasts (to 150mm) of hard silica-alb alt coarse gr qtz-feld porphyry; & soft, irreg, sericitic/chloritic qtz-feld porphyritic "stylolitic" frags (to 50mm); in matrix of qtz-feld xyls & abund fine pumice.	70							
						Alteration: Overall: weak. Felds albitised. Pumice sericitised.	54							
						Breccia matrix mod silicified (porph clasts v strongly silica-albite alt).								
						Structure: Bedding 58°/LCA @ 59m. Broken above 56.5m.								
						Basal contact abrupt, 35-40°/LCA: sl irreg 1° surface on unit below.	52							
						60.5 - 104m: QUARTZ-FELDSPAR PORPHYRY BRECCIA								
						Lithology: Formed by quench-brecciation of hot porphyry.	74							
						Blotchy orange-red & greenish-grey. Massive; v coarse-gr; hard.								
						Angular frags & diffuse irreg patches of qtz-feld porph in compositionally-identical matrix that has snowflake devitrification texture & net-vein habit in places.	70							
						Frag typically <50mm, some zones av <10mm.								
						Both matrix & frags contain abund feld (1-4mm, gen euhedral), & qtz (av 3-5mm, commonly 5-12mm, partly rounded & fractured).	64							
						Alteration: Gen porph frags mod-strongly silica-albite(-hematite) alt. Some smaller soft frags of sericite-chlorite alt porph ("stylolitic" type).	100							
						Breccia matrix gen strongly sillif. Minor calcite veining.								
						Structure: No primary or structural lineation.								
						Badly broken around strong brittle faults @ 69.3-70.7m (30°/LCA), & 75.8m (35°/LCA). Elsewhere, sl broken at intervals by frags sub-// LCA.	64							
						Basal contact gradational.	118							

52.85 - 60.5m:
Minor dissem py.
Trace sp-gn, mainly
in carb veinlets.

60.5 - 104m:
Trace py.
Minor ubiquitous
leucoxenised opaques.



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**PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG**

HOLE No. **BHD4**

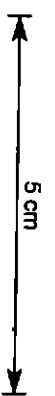
PROJECT: **SOCK CREEK**

Graphic Scale 1: 250

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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	
					104 - 135.0m:	QUARTZ-FELDSPAR PORPHYRY	104	<p>COARSE GRAINED QUARTZ- FELDSPAR PORPHYRY</p>							
					Lithology: Grey with pink tinge. Coarse gr; massive; uniform; v hard. Porphyritic xyls of feld (euhedral, av 2-4mm), & qtz (2-6mm, gen sl rounded by alt/corrosion), in fi gr silica-albite-sericite groundmass.	108					104 - 135m: No sulphides. Trace leucoxenised opaques.				
					Alteration: Strong silica>albite; weak sericite>chlorite (ser strongest in basal 5m). Calcite veinlets & patchy weak pervasive carbonatisation.	130									
					Structure: Some flow-banding in upper 2m, variable but gen =60°/LCA.	132									
					Largely unbroken - occ frags. Small brittle fault 40°/LCA @ 123.6m. Basal contact abrupt: mixing of shaley material & quenched porphyry over 150mm, with flow banding // contact @ 55°/LCA.	134									
					Sampling: 034259 (lithogeochem, 115-116m).	136									
					135.0 - 138.2m: MIXED BLACK SHALE & QUARTZ-FELDSPAR PORPHYRY DETRITUS	140									
					Lithology: Black & pinkish-grey. Upper 1m baked black carbonaceous shale. Variably-textured coarse sandy material derived from qtz-feld porphyry. Clots of deformed (unlith) black shale & rare porph clasts to 15mm.	142					135m - 136m: 1% cp-sp-gn as clots in calcite veinlets. Minor dissem py.				
					Some tiny sericitic (glassy) frags appear formed by quench brecciation. Qtz xyls fractured & often rounded, to 10mm. Pink albitised felds gen euhedral & 2-3mm (rarely to 7mm). Rock matrix mainly soft green soapy sericite after glassy material, commonly with fine dispersed carbonaceous matter.	144									
					Alteration: Weak sericite-silica-albite-carbonate. Patchy silif of matrix. Veinlets & net-vein fracture-fillings of calcite (±sericite).	146									
					Structure: Bedding variable 15-30°/LCA. Sl fract & broken. Basal contact indistinct.	148									
					Sampling: 034260 (assay, 135-136m).	150									
					138.2 - 151.9m: QUARTZ-FELDSPAR PORPHYRY	152									
					Lithology: Pink & greenish-grey. Coarse gr, massive, hard.	154									
					Abund porphyritic qtz & feld in subord sericitic groundmass. Qtz av 3-4mm, to 7mm, commonly rounded. Feld av 1-3mm, to 6mm, gen	156									
						158									
						160									
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**PASMINCO EXPLORATION
DIAMOND DRILL CORE LOG**

HOLE No. **BHDA**

PROJECT: **SOCK CREEK**

Graphic Scale 1:

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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
						<p>euhedral.</p> <p>Alteration: Moderate silica-albite, weaker sericite-chlorite. Alt is variable & patchy. Some zones strongly silif.</p> <p>Structure: Slightly broken by fract set 15-30°/LCA. Shear 55°/LCA @ 143.65m.</p> <p>Flow banding @ 140.8m: 25°/LCA (opp sense to fract).</p> <p>At base, highly irreg & disturbed zone where porphyry contacts un lith black shale, with some fine peperite breccia in base of porph.</p>				<p>138.2 - 151.9m: Rare dissem & veinlet py.</p>				
						<p>151.9 - 179.75m: MIXED MARGINAL PORPHYRY ZONE & SHALE</p> <p>Lithology: Complexly intermixed black carbonaceous shale, qtz-feldspar porphyry, & porphyry detritus incl fine peperite breccias. Black & pale greyish-green. Variable grainsize, texture & hardness. Predom shale above 163m. Shale disturbed & deformed while un lith - gen occurs as irreg bands, clots or frags in porph material. Porph & porph detritus varies from coarsely-porphyrific to sparsely & finely porphyritic.</p> <p>Feld (gen <3mm) & qtz (gen <4mm & rounded), in sericitic (glassy) matrix/groundmass with perlitic cracks & snowflake devit text in places.</p> <p>Porph detritus ranges from epiclastic to peperitic types, incl fine to coarse xyl sst & fine lithic breccias (alt porph frags av 5-40mm).</p> <p>Alteration: Alt patchy & variable. Mod sericitisation, strongest below 170m esp around faults where occ veins of soft soapy sericite. Lesser silica-albite-chlorite-bleaching.</p> <p>Shale baked in places (eg: 1.4m shale band at top contact of unit).</p> <p>Structure: Flow lineation in shale @ 152.4m: 40°/LCA. Shale clots and felds in sst gen orientated <30°/LCA, commonly <20°/LCA.</p> <p>Broken 155.5-163m & 172.5-179m, due to strong faults (see below), & also to fract set <15°/LCA.</p> <p>Faults: 160.4 -160.7m (20°/LCA, leached breccia zone); 162.6m (15°/LCA puggy); 175.1m (80°/LCA, puggy & sericitic); 177.9m (leached, broken).</p> <p>Basal contact abrupt, v irreg, broken.</p>				<p>151.9 - 153.3m: 1-2% sp>gn-py. Dissem & veinlets in baked shale.</p> <p>153.3 - 160.6m: Minor to 1% py> sp-gn. Dissem & veinlets, mainly in shale clots/bands.</p> <p>160.6 - 163m: 1% sp-gn-py in shale band. In veinlets (±qtz-carb), & dissem.</p> <p>163 - 179.75m: Minor dissem py, locally 1% in shale clots. Ubiquitous fine leucogenised oxide grains.</p>				
						<p>Sampling: 034261 (assay, 151.9-153.3m).</p>								
						<p>179.75 - 213.4m: QUARTZ-FELDSPAR PORPHYRY</p> <p>Lithology: Greenish-grey; med-coarse gr; massive; uniform; hard.</p>								

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5 cm

PASMINGO EXPLORATION DIAMOND DRILL CORE LOG

HOLE No. BHD 4

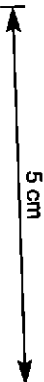
PROJECT: SOCK CREEK

Graphic Scale 1:

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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
						<p>Abund felds & qtz xyls evenly scattered through fi gr silica-sericite groundmass. Feld av 2-3mm, to 5mm, euhedral. Qtz av 3-4mm, to 7mm, often rounded. At 212m, sharp contact 30°/LCA to basal peperitic zone comprising porphyry mixed with porph-derived qtz-feld xyl sst containing fine carbonaceous material. Alteration: Mod-strong silif, weak-mod sericite. Felds gen weakly albitised or sericitised. Minor bleaching, gen assoc with fract. Thin qtz-carb veins throughout. Structure: Mod broken at intervals, by fract. gen at low angle to LCA. Basal contact sharp, sl irreg (shale below un lith), 50°/LCA.</p> <p>Sampling: 034262 (lithogeochem, 199-200m).</p>				<p>179.75 - 213.4m: Trace dissem py. Minor leucoxenised oxide grains.</p>				
						<p>213.4 - 226.05m: BLACK SHALE Lithology: Finely-bedded black carbonaceous shale, mod calcareous below approx 220m. V minor beds of fine grey sst & siltst. From 224.3m-225.4m, band of med gr sericitic qtz-feld xyl sst (porph-derived) containing highly irreg clots of (un lith) black shale. Alteration: Net-veinlets of qtz-carb±sericite-chlorite, v common above 222m. Structure: Bedding (to LCA): 63° @ 214m, 66° @ 219m, 64° @ 223m. Largely unbroken except in faulted zone @ 214.4m (45°/LCA). Basal contact sharp 65°/LCA (bedding). Basal 50mm of shale sl sheared.</p> <p>Sampling: 034263-034268 (assay, 213.6-226m).</p>				<p>213.4 - 218.8m: 1-3% fi gr dissem py. Common (1%?) cp(±py) in qtz-carb veinlets. At 215.85m: 10mm massive cp vein 70°/LCA approx same sense bedding.</p> <p>218.8 - 223m: 2-3% fi gr dissem py. 1% sp>gn in calcite veinlets (no cp).</p> <p>223 - 226.05m: 3% fi gr dissem py.</p>				
						<p>226.05 - 236.4m: FINE CRYSTAL-LITHIC EPICLASTIC BRECCIA Lithology: Up-hole fining epiclastic debris. Grey with orange-pink flecks. Hard. Unbroken. Mainly xyl-lithic volcanomict breccia, with abund angular to subangular clasts av 5-15mm, in sandy matrix containing feld, qtz & lithic grains. In basal 0.6m clasts to 150mm. Clasts predom fi gr glassy silica-alb alt rhyodacite lava with perlitic cracks. Others incl feld-porphyrific dacite lava, black shale, bleached & alt poss mafic volcs, amygdaloidal lavas, and minor tubular pumice. Above 229.3m unit fines abruptly to bedded fine qtz-feldspathic sst. Alteration: Mod silif. Weak albite-sericite-chlorite. Calcite</p>				<p>226.05 - 236.4m: 1% dissem py, trace sp-gn or cp in carb veinlets. 10mm massive py clast @ 231.5m.</p>				

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**PASMINCO EXPLORATION
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HOLE No. **BHD 4**

PROJECT: **SOCK CREEK**

Graphic Scale 1:

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CORE RECOVERY				DESCRIPTION										CODES				
From m	Interval m	%	RCD	From m	Interval m	(Incl. LITHOLOGY, STRUCTURE & ALTERATION)	Depth	Graphic		MINERALISATION	LITHO	STRUCT	ALTN	MIN				
								Lithology	Struct.									
						veinlets. Many frags strongly silica-alb alt, apparently prior to incorp in unit. Small fuchsitic clast @ 232m. Structure: Bedding (to LCA): 55°/LCA @ 227.5m; 60°/LCA @ 231m. Basal contact abrupt, broken.												
						236.4 - 382.15m: FINELY BRECCIATED RHYODACITE LAVA Lithology: Dark grey-green with pink tinge. Massive. Hard. Unbroken. Fi gr. Non-porphyrific. Highly vitric. Perlitic. Qtz-amygdaloidal. Brecciated lava / lava breccias of flow & hyaloclastite types, largely formed by subaqueous quenching of compositionally-identical hot glassy lava pulses. Top 3m is fine hyaloclastite breccia similar in appearance to overlying epiclastics & reflecting gradational nature of upper lava contact. Trace black shale in breccia matrix to 242.5m. Ubiquitous perlitic cracking. Local flow-banding. Amygdales mostly sl chalcedonic qtz; gen <8mm; locally tiny & abund. Some amygdales in breccia matrix. Classic quench-fragmentation features, incl highly angular frags with delicate subconchoidal edges, & net-vein brecciation. Most breccia frags <50mm. Prob interpulse zones marked by abund tiny pumiceous and flow-banded frags (eg: at top of unit and at 285-290m). Abund tiny (<<1mm) leucocratic flecks throughout - prob devit text. Alteration: Gen strong sillf - varies from intense to weak (breccia matrices gen replaced by silica & occ carb). Mod albite-chlorite alt. Weaker patchy sericite & bleaching. Qtz-carb(±chlor) veins & veinlets throughout. Structure: Lineation of frags in some breccias, amygdales, or flowage in lava, all gen v approx around 40°/LCA. Lineation of breccia frags (/LCA): 35° @ 271.8m (oriented core: 205°M/20°); 40° @ 287m; 20° @ 331m; Amygdale lineation (/LCA): 55° @ 257m; 25° @ 301.4m (orientated: 097°M/vert); 35° @ 343m; 50° @ 370m. Basal contact sharp, sl irreg, 35-55°/LCA, with minor deformed clots of baked black shale in breccia matrix for 0.75m above contact.												
						Sampling: 034269 (petrology, 257m); 034270 (lithogeochem, 257-258m) 034271 (petrology, 339.5m); 034272 (lithogeochem, 339.5-340.5m).												

236.4 - 382.15m:
Trace dissem &
fract-fill py.

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**PASMINCO EXPLORATION
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HOLE No. **BHD4**

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Graphic Scale 1:

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CORE RECOVERY				DESCRIPTION							CODES					
From m	Interval m	%	ROD	From m	Interval m	(Incl. LITHOLOGY, STRUCTURE & ALTERATION)	Depth	Graphic Lithology	Struct.	MINERALISATION	LITHO	STRUCT	ALTN	MIN		
						Some intervals of grey silicified siltstone. V minor thin beds of sericitic fine clastic volc material (glassy, qtzofeldspathic), in uppermost 20m & below 584m. Alteration: Abund irreg qtz-calcite veins & veinlets filling fract at all angles throughout, esp 513-555m. Trace chlorite-sericite in some veins. Rarely vein carb is pale pink. Sst weakly calcareous, with some highly-calcareous zones below 592m. Structure: Ubiquitous signs of structural disturbance, incl the abund veining (fracturing), numerous brittle faults, & widespread deformation of bedforms (incl intermixing of sst & shale, & common small-scale fracture offsets of bedding). Up-hole fining in graded sst bed @ 506.4m. Bedding (/LCA): 72° @ 494m (orientated core: 035°M/45°); 74° @ 512m (orientated: 038°M/54°); 75° @ 533m; 60° @ 543.5m (orientated: 094°M/32°); 40° @ 565.5m; 25° @ 572m (orientated: 010°M/89°); 40° @ 593m; 55° @ 602.7m (orientated: 350°M/67°); 47° @ 612m. Mildly broken at intervals throughout. Stronger faults (LCA): 25-35° @ 513.6 - 516.7m (major, annealed by qtz veining); 30° @ 521.7 - 522.9m (major, annealed by qtz-carb veining); 30° @ 548.7m (cemented by carb); 25-35° @ 570.5 - 570.85m (broken, puggy); 15-25° @ 588m (broken). Sampling: 034277-78 (assay, 490-493.5m); 034279 (lithogeochem, 554.3-555.3m); 034280 (petrology, 555m); 034281 (lithogeochem, 598.2- 599.2m); 034282 (petrology, 598.8m); 034283 (assay, 535.5-537.5m); 034284 (assay, 576.5-577.5m).						497 - 508m: 1-2% py as above. V rare trace sp-gn in qtz-carb veins. 508 - 512m: Minor py. 512 -513m: 2-3% dissem py. 513 - 610m: V minor py. Mainly in shale sections. Pale brown sp dissem in carb-cemented fault breccia @ 548.7m. Rare cp in qtz-carb veinlets below 575m. 610 - 616.8m: 1% py, dissem & veinlets.				
						END OF HOLE										

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