

GRAPHIC LOG

Location *White Spur*
Co-ordinates

Drill hole no.
WSP 13

Logged by: *Corey Jago* Scale: 1:200 Date: *2/6/05* Page: *1* of *11*

Structure	E	Grainsize						Sample	Rock / facies description + alteration
		0.063	1	2	8	32	64	256	
	0								<p><u>Interbedded fine grained lithic sandstone and grey-black mudstone</u></p>
	10								
	20								
	30								
	40								
	50								

↑

38.3 m flame structures
39.8-40 m mudstone lithics
sub angular sub rounded 1.5-2 mm

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Structure

50

Grainsize

0.063 1 2 8 32 64 256 mm

Sample

Rock / facies description + alteration

54.4m - irregular, undulating contact

79.1m - 2-3cm subrounded brown clasts
coarse lithic sandstone bed
lithic rich - 2mm - 1cm sub rounded to
subangular
black mudstone clasts.
blue grey volc clasts
white opalescent volc clasts.

85.2 86.3
b. core

98.1m irregular base
black mudstone lithics
pumice -
fspar & minor qtz
blue-grey xstals

- fragments?
- silicification?

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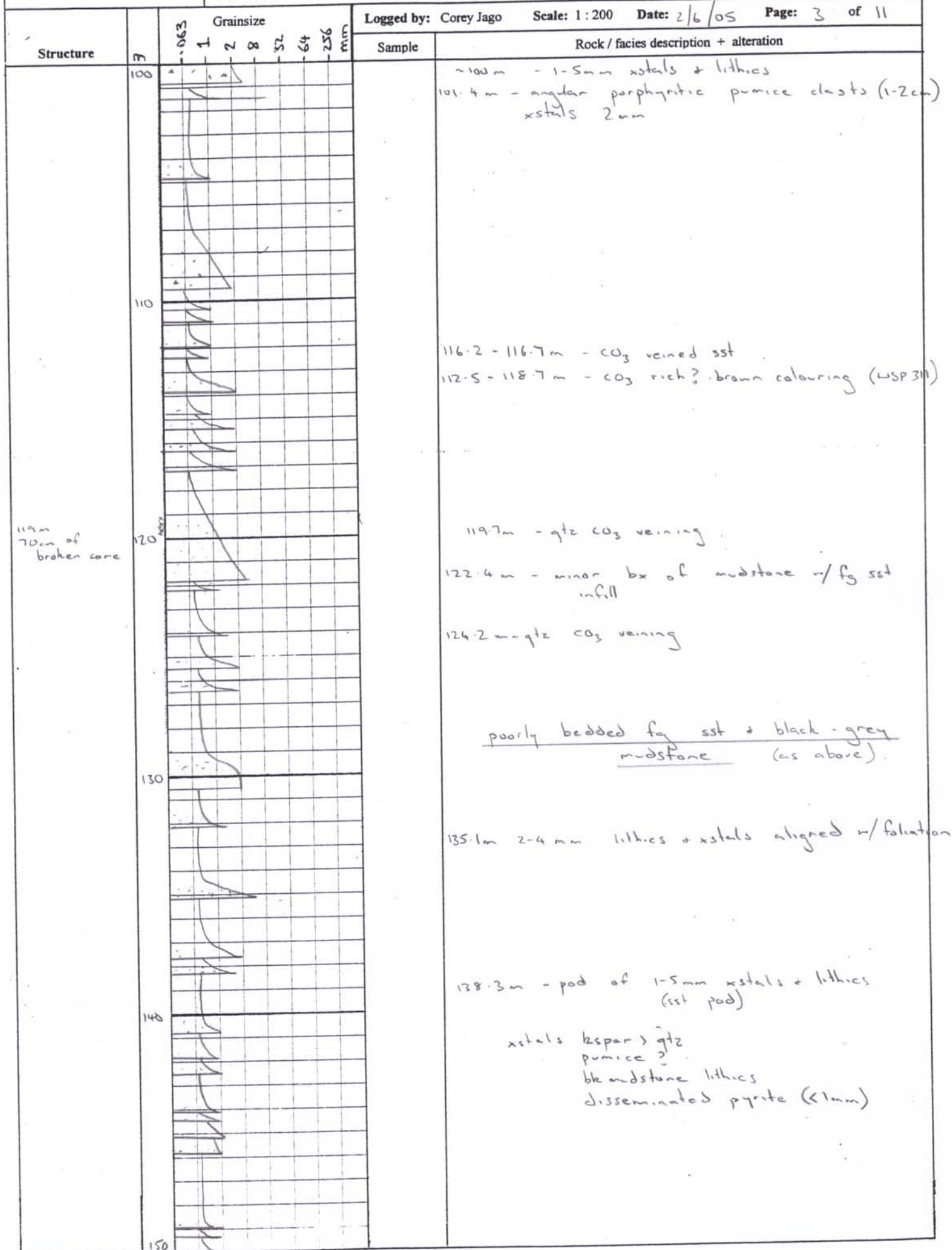
WSP 13

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Structure		Grainsize		Logged by: Corey Jago		Scale: 1:200		Date: 2/6/05		Page: 4 of 11	
				Sample		Rock / facies description + alteration					
E		mm									
150		0.063									
		1									
		2									
		8									
		32									
		64									
		256									

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Structure	Grainsize 1 2 8 32 64 256 mm	Sample	Rock / facies description + alteration
200		200.3 m	qtz CO ₂ vein
		201.9 m	CO ₂ qtz py vein - deformed
		202.5, 204 m	- 0.5-1mm xotals - vfg/fy sst.
		206.6 m	- 10 cm siltstone / vfg sst clast or bed? small py CO ₂ qtz vein for bottom contact (1cm) 3 mm py CO ₂ vein as top contact py blebs + CO ₂ veinlets numerous sp bands
		214.3 m	sp clasts + bands
210		217.3 + 217.7 m	1-2 cm sp + py clasts
		217 217.3 217.6 m	qtz CO ₂ veining rotated clasts pyrite bands, blebs + veinlets
		220.7 - 221.1 m	- breccia w/ FeCO ₃ infill?
		221.1 m - 221.8 m	mixing
		224 m	mixing of green yellow siltstone / fg sst + black mudstone (contact? ~ 223.6m)
		230 - 230.9 m	irregular beds + pods of fg sst. 1mm qtz fspar py
		233.4, 233.9 + 234.1 m	- pumice clasts / lenses brown green - fspar white 0.5-3mm subangular - qtz clear subrounded 0.5-4mm - py
220		234.5 m	- qtz CO ₂ chl? or sericite? vein (bright green - fuschite?)
		240 m	- cream fspar <0.5mm ~ 7% - qtz <0.5mm ~ 5% both sub rounded - sub angular
245.6 - 247.3 m b. core		247.4 m	qtz CO ₂ vein
250			

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Structure	Grainsize mm	Sample	Rock / facies description + alteration
	250		numerous dark green grey CO ₃ chl veining
			normal graded feldspar > qtz phyric medium to coarse grained volcanoclastic sst
			257-259m - black pumice clasts ~ cm in size (compacted)
	260		260m - fspar white sub angular 0.5-3mm 10% qtz clear sub rounded 0.2-2mm 7%
			around 264m slight cream - medium grey mottled texture 10% disseminated sulphides - silicification
			271 to 275.3m - 1cm green cream/green brown qtz phyric porphyritic rhyolite clasts - phyllosilicate pumice clasts (cm in size)
			271m - white sub angular fspar 0.3-3mm 10% - clear qtz 0.5-2mm 7% - 5% pumice (black)
	270		275.8m - 5cm silicified pumice 276.5m - 1cm rhyolite clasts 277.2m - 2cm rhyolite clasts 281.5m - pumice clast
			massive fspar > qtz phyric pumiceous coarse-grained lithic volcanoclastic sst
			282.4m - 4cm green rhyolite clast 282m - 2-5cm pumice clasts
			285.1-285.4m mudstone intraclast 285.7m - mst intraclast 286.8-287.4m mudstone intraclast 287.5m - large 5cm - 8cm green-cream/grey-cream qtz phyric rhyolite clasts + at 284.5 mudstone clasts at 283.5m (20cm) 284 (30cm) 285 284.7 284.7 284.5
	280		282.3-287.7m - volcanoclastic bx
			massive fspar > qtz phyric pumiceous volcanoclastic lithic breccia
			silicified areas - slight mottled texture sericitic pumice xstl rich qtz clear 0.3-4mm 10-15% fspar white sub angular to sub rounded 0.5-5mm 15-20%
	290		sulphide veinlets < 1% bk mudstone ~ 5mm green cream qtz phyric porphyritic rhyolite clasts ~ 8mm
295-296.1m b. core			contact uncertain - fault? - has broken core pumice clasts (fspar - qtz 1-3mm) at 296.4
296m - fault?			297.2 297.4 297.5 297.6 blue grey lith. cs 5mm - 1cm bk mst clasts 5mm - 1cm
	300		

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Structure	m	Grainsize							Logged by: Corey Jago	Scale: 1 : 200	Date: 1/6/05	Page: 7 of 11
		0.063	1	2	8	32	64	256	mm	Sample	Rock / facies description + alteration	
300.4 - 302.8 m broken core	300										qtz CO ₂ veining throughout	
305.6 - 308 m broken core											309.6 - 309.8 m - 20 cm pumice clast + at 310.5 m (porphyritic - fspar + qtz)	
311.3 - 311.5 m broken core fault contact?											1mm fspar qtz xstals 1mm lithics	
											308 - 305.6 m minor brecciation, more intense at 301.2 m <u>fspar qtz phyrice fine grained lithic sst</u>	
	710											
312.5 - 314.8 m broken core											316 m gradational contact siltstone grades to fg sst. above 327m FeCO ₃ veining + qtz <u>fspar qtz phyrice fg-medium grained volcanoclastic sst</u>	
	320										0.2mm xstals subangular qtz + fspar pumice? disseminated sulphides.	
323.8 m 20cm broken core + puggy clay material											322.9 m - coarse 1-2mm sst bed (fspar qtz) pumice clasts	
	330										328 - 328.3 m irregular sst beds + pods (1mm xstals) 332.2 m sphalerite vein	
335.7 - 336.8 m b. core												
341.2 - 343.4 m mostly broken core												
345.9 - 347.1 m broken core											CO ₂ veining throughout	
	340										342.1m hydrothermal breccia chl? infill	
	350										349.7m qtz CO ₂ vein	

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0.063 1 2 8 32 64 256 mm

Sample

Rock / facies description + alteration

350-357m mottled medium grey + cream texture - silicification

massive fspar qtz phyrice pumiceous
lithic volcanoclastic massflow

fg sst → sst → bx

361.9m 8mm sp clast
1-2mm xstals

fspar 20% white 1-2mm subangular
pumice ~ 7% black phyllosilicate altered and green
silice. sp is disseminated in the pumice clasts
qtz 10-15% clear sub rounded.

lithics - silicified cream rhyo 1-3cm
- blue grey siliceous clasts < 1cm

369.7m sp clast

371.8 & 371.9m pumice clasts

369.8m - 11 cm green grey volc siltst/fg sst clast

372m - 4 cm mudst intraclast
5 cm at 373.3m

373.55m - 1.5cm qtz phyrice cream rhyolite clast

373.5m - mudst intraclast

373.8m + 374m 4cm mudst intraclast

373.9m silicified clast

375.3m upwards
incredibly xstal rich
30-40% subang-sub round white 1-5mm fspar
10% sub round clear qtz 0.8mm-8mm
2.5cm light green clast ...
w/ 2cm cream qtz phyrice rhyolite clast
7% black pumice (phyllosilicate altered)

378.9m mst intraclast w/ qtz CO₂ vein
phyllosilicate altered pumice clasts ~ 3-5% (387m)

387m - 1-5mm white-cream subangular fspar 20-25%
1-5mm clear subrounded qtz 10-15%
(xstal rich - WSP 311?)

390m - silicified sst

391.2m - 3cm silicified pumice clast

391.2m - 2cm cream subangular qtz phyrice
rhyolite clast
- blk mst (cm in size)

392.5m - green cream qtz bearing volc lithics 1-1.5cm
(rhyolite?)

395.6m - mst intraclast

397.6m qtz CO₂ py vein
intermingled w/ coarse sst to 400.5

369.7
373.9
volc bx

379.6m
qtz CO₂ vein

398.1-398.7m
missing core

398-399.5m
b. core

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		0.063 1 2 8 32 64 256 mm			
400.5 m qtz py vein + 402 m (1 cm)	400			401.7 m 6 mm mudstone intraclast 403.4 m qtz CO ₃ py vein - deformed + intermingled also at 402.4 + 401.4 m fspar ~ (6 mm in size) brown green 5-7% lithics feldspar qtz phyrlic pumice clasts grey silicified volc clasts < 1 cm sulphides can be in clasts (5 mm) or disseminated	
	410			410 m 1-2 mm clear subangular qtz 3% 1-2 mm white subangular fspar 5-7% 418.2 - 419 m pinkish xstals as well as orange xstals w/ phyllosilicate altered pumice - fspars? 420.8 m - cluster of 1-2 mm pyrite 423.3 m - sp py gr clast 1 x 1 cm massive feldspar > qtz phyrlic pumiceous coarse grained lithic sst 0.5-4 mm sub angular - sub rounded cream 0.5-4 mm fspar 7% 2-4 mm subrounded clear qtz 5% green brown pumice (phyllo) grey siliceous fspar phyrlic lava grey brown siliceous volc fg sst massive pyrite 428.2 m blk mudstone intraclasts dark green grey chl spotted andesite lava green cream qtz fspar phyrlic rhyolite lava	
	420			422.2 m sp clast (3 cm) w/ pyrite 427.4 m pinkish orange arg - sub round 1-4 mm (fspar?) bluish cement w/ frags + pinkish xstals ~ altered pumice? 431.2 m 3-5 mm py grains massive fspar qtz pumiceous polymitic lithic volc breccia coarse bx at base 25-30 cm lithics 10 cm clasts grey mudstone qtz phyrlic lava (rhyo)	
436.2 - 437.9 m b. core	436			432.3 - 436.2 m - blk mudstone 436.5 m - qtz CO ₃ py vein at 438.3 m - qtz chl CO ₃ pyrrho vein (10 cm) & at 437.6 + 437.9 weakly laminated black mudstone w/ medium grey volc siltstone / vfg sst laminae	
438.7 m to 439.2 m folded mudst beds				446 m py blebs 0.2 - 1 cm + elongate domains 2 cm	
439.1 - 441.3 m b. core + fault at 440.9 442.1 m b. core fault?	440				
	450				

