

GRAPHIC LOG		Location	Drill hole no.			
		White Spur	WSP 10			
		Co-ordinates				
Structure	Depth (m)	Grainsize 1 2 3 5 10 20 30 60 120 mm	Logged by: Corey Jago	Scale: 1:200	Date: 25/3/05	Page: 1 of 8
			Sample	Rock / facies description + alteration		
breccia w/ fine infill and many areas of fine fractures in infill	0			3-8 medium blue-gray, silicified appearance 1mm grains of disseminated pyrite 1% brown wispy texture between fragments - phyllosilicate altered pumice		
7.4-8.1m broken core	7.4-8.1			7.4-8.1m - white and orange stain on joint - clay? dark blue/gray to white/cream subangular fragments with phenocrysts brown hard infill with phenocrysts of qtz + fsp both seem silicified		
	10			coherent and brecciated fsp qtz phyr pumiceous rhyolite autobrecciated lava?		
				qtz 1-3mm gray-clear sub rounded to sub angular 70% fsp 1-3mm white subangular sub rounded 15%		
				white irregular silicification domains Fe weathering / staining on joints 17.1m - 5cm white clay on joint w/ orange halos 17.6m - 2cm joint - similar		
	20			21.4m - chlorite vein 22.2m - lamination of phyllosilicate/pumice, green brown wrapping around band of phenocrysts		
				medium to dark blue-gray Fe carbonate veinlets throughout		
	30			37m - minor chlorite alteration of fragments		
				37.6-38.4m - heavily jointed white & orange alteration. fragments visible in this area and and white/cream & v. hard		
	40			45m - fine grained fragments with numerous 1mm fractures and cracks. also at 38-5m - quench fragmentation? maybe, but not really jigsaw fit and is quite difficult to differentiate from breccia		
49.3-49.9 broken core	49.3-49.9					

GRAPHIC LOG		Location White Spar Co-ordinates		Drill hole no. WSP 10			
Structure	E	Grainsize 1 2 3 5 10 25 64 256 mm	Logged by: Corey Jago		Scale: 1:200	Date: 25/5/05	Page: 2 of 8
			Sample	Rock / facies description + alteration			
broken core 50.7-50.9m 51.6-51.7m	50			medium gray with FeCO ₃ veinlets patches of white, qtz or fepar alteration green brown wispy elongate 1cm (max) phyllonitic altered partice mm - 1cm thick have numerous plagioclase and all aligned 45° up hole & all interconnected			
lineation of pumice 45° up hole	60			55.2m - intense silicification - pale to medium blue from this point onwards 57.9-58.6m - v. silicified, pale gray broken core 63m - green ft, porphyritic fragments (quench frag) 65m - coherent lava / minor bre w/ fabric 35° up 67.6m - silicified pumice 1.5cm long 4mm high all aligned 25° up hole - fragments with green sericite hues			
67.6m pumice 25° up hole	70			69.6m - fragments with pale orange hue - hematite dusting 69.7-70.1m - v. intense silicification, white w/ orange yellow and green staining on joints 73.6-74.6m - v. intense silicification white-gray w/ 20cm orange staining and broken core at 73.7-73.9m			
76.6-78m	80			76.6-78m - broken core, orange staining on joints			
	90			84.8m - qtz pyrite vein			
	100			91.6m - extensive fracture network with varying sized fragments - (quench frag)?			

GRAPHIC LOG

Location
Co-ordinates

White Sp. n

Drill hole no.

WSP 10

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Structure

Sample

Rock / facies description + alteration

Grainsize

1 2 4 8 16 32 64 128 256 mm

90

110

120

130

140

150

113.7 - 115.3 m - numerous qtz veins
mm - 3cm (max)

115.3 - 125 m - banded texture
- flow banding

123.5 m - qtz alt vein 2.5cm (minor)
from 124 m - white irregular domains, qtz or
fayalite alteration

114 - 126 m - greenish brown grey colour of rock

136 m - flow banding

139.7 m - patchy green cream alteration

145.2 - 150.2 m - green brown rhyolite
145 - 146 m - white patchy alteration aligned
with fabric/banding ~ 25° up hole
- alteration has grey haloes -
silicification?
- also occurs as layers
that follow the fabric

2.5°



145 - 146 m
banding

25°



GRAPHIC LOG		Location	White Spur	Drill hole no.	LSP 10		
		Co-ordinates					
Structure	E	Grainsize	Logged by:	Corey Jago	Scale: 1:200	Date: 25/5/05	Page: 4 of 8
			Sample	Rock / facies description + alteration			
151-6m fb banding ~25°	50			<p>157-158m - green grey rhyolite fragments w/ small fm cracks separating them (most jagged) - quench frag? <i>pseudo?</i></p> <p>159m - white alteration domains</p> <p>159.4m - medium grey silicification</p> <p>162m - mottled medium grey + cream texture related to FeCO₃ veins</p> <p>flowbanded fsp + qtz phryic pumiceous rhyolite</p> <p>white fsp 1-3mm subrounded to elongate + equant 10%</p> <p>clear qtz 1-3mm subrounded 7%</p> <p>pumice?</p> <p>166-177m - black coherent porphyritic lava, black groundmass w/ white fsp</p> <p>169-170m - silicification, blue-grey also in banding</p>			
	60			<p>177m - silicified areas along banding</p>			
	170			<p>180m - sericite w/ silicification in banding pumice?</p>			
180m - 25° fb flow banding crenulated (perpendicular to banding)	180			<p>181.7-182.9m - green fct hydrothermal breccia orange + white qtz carb cement between rotated clasts large areas of veining, qtz carb domains</p>			
	190			<p>187.7-200m - pseudobreccia texture dark green chlorite groundmass with 'fragments' sericite altered, selective alteration - silicified 'fragments' in areas.</p>			
	200			<p>Qtz veining at 192.4 199.9 mm - cm in 196.7 200.1 size (10cm max) 197 197.2 197.5 198 198.2 198.4 198.6 199.1 199.2 199.5 199.7 199.8</p>			

GRAPHIC LOG		Location Co-ordinates		Drill hole no. WSP10								
Structure	Depth (m)	Grainsize						Logged by: Corey Jago	Scale: 1:200	Date: 26/5/05	Page: 5 of 8	
		0.063	1	2	8	32	64	256	mm	Sample	Rock / facies description + alteration	
205.4 m S ₀ 25° H	200									qtz vein 200.5 m	200.5 - 204.6 m Fault zone	
										- qtz veining		
										- chlorite		
										- Fe CO ₃ veinlets		
										- FeCO ₃		
										- graphitic		
										- some breccia core		
										- minor pyrite + sphalerite		
										<u>laminated pyritic black mudstone</u>		
										- brown CO ₂ laminae (WSP311)		
										- FeCO ₃ veinlets		
										- disseminated pyrite - 1 cm < 1% locally 3%		
										1 cm grains of pyrite in mudstone, several aligned with bedding		
										214.5 - 225.5 m - grey mudstone, often massive, other areas laminated		

GRAPHIC LOG		Location Co-ordinates		White Spar		Drill hole no. WSP 10								
Structure	m	Grainsize							Logged by: Corey Jago	Scale: 1:200	Date: 26/5/05	Page: 6	of 8	
		0.063	1	2	8	32	64	256	mm	Sample	Rock / facies description - alteration			
252.5m S ₀ 40°	256										256.2 - 258.1m Fault zone			
											- graphitic			
											- qtz chl veining			
											- hydrothermal breccia			
											- broken core			
											- v. high angle cleavage			
											sub parallel to core			
											after zone more pyrite			
262m S ₀ 50°	260										265-265.8m broken core			
265-265.8m broken core											266m - brown CO ₂ , FeCO ₃ veinlets			
											- laminated pyrite			
273m S ₀ 50°	270										270.2-271.4m - Fault zone			
											- qtz carb chl veining			
											several veins			
											- broken core			
285m S ₀ 50°	280										284.1m - qtz vein			
											- pyrite			
											cleavage altered mudstone fragments			

GRAPHIC LOG

Location White Spur
Co-ordinates

Drill hole no. WSP 10

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Structure

Grain size	Grain size	
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100		

Sample

Rock / facies description + alteration

350.5 - lithic ss bed

346.6 m gradual contact

light ^J green grey colour

sub-rounded white domains up to 2cm
alteration

$$CO_2 + H_2O \rightleftharpoons H_2CO_3$$

at $z = 40, 100, 200$

normal graded spargite phytic pumiceous
sandstone massflows

2mm pale green lithes (sericite)

12. $\frac{1}{2} \pi$ rad

lim fopar = qtz + ice

carb sericite groundmass

glt 2 variants

$$286 = 9\frac{1}{2} \text{ min}$$

sulphides 3% pyrite spn fine grained

10% f_{gap} 5% q_{12}

386.6 EOH