

ROSEBERY LITHOLOGY_VMS LOG

Hole ID: WSP16



Project: WSP

White Spur

Prospect: WSP

Whitespur

Northing: 5362405.0 mN

Dip: -70.00

Easting: 376137.0 mE

MAG_Azim: 256.60

RL: 591.0 mRL

Total Depth: 857.3 m

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
50	HW	GRY-BLK	SGW	Clastic	bed	slt sla	cb py	Unit 5 of the WSF: Generally a series of interbedded grey-wacke and lithic-wacke turbidites (+/- shale). Occasional shale units may in fact be clasts due to sharp upper and lower contacts. The lower contact is transitional - it is marked where it becomes more shale dominant and probably part of the below mass flow rather than unit 5. Cleavage is at a high angle to bedding indicating close proximity to the hinge.							
60															
70															
80															
90															
100															

Legend												Mineralisation				
▲ Breccia - Undifferentiated	■ Felsic Flow	■ Disseminated Sulphides	● Interbedded sandstone/siltstone	■ Intermediate flow	■ Undifferentiated Volcaniclastic	■ Background	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade				
▲ Fault Zone	■ Feldspathic porphyry	■ Quartz	▲ Andesite	■ Intermediate Volcaniclastic	■ Volcanic Breccia	■ Background	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade				
▲ Hyaloclastite Breccia	■ Mafic Dyke	■ Limestone	▲ Crystal Tuff	■ Lapilli Tuff	■ Volcanic Conglomerate	■ Background	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade				
▲ Pyroclastic Breccia	■ Quartz Feldspar Porphyry	■ Dolomite	▲ Dacite	■ Lithic Tuff	■ Volcanic Sandstone	■ Background	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade				
▲ Vein quartz	■ Quartz Porphyry	■ Shale	▲ Dacite Lapilli Tuff	■ Rhyolite	■ Volcanic Siltstone	■ Background	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade				
▲ Vein Carbonate	■ Schist	■ Siltstone	▲ Felsic tuff	■ Rhyolite Breccia	■ Not logged	■ Background	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade				
▲ Quartz Carbonate Vein	■ Slate	■ Chert	▲ Felsic Volcaniclastic	■ Tuff Siltstone		■ Background	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade				
▲ Andesite Flow	■ Massive sulphide	■ Greywacke	▲ Feldspathic (ash) tuff	■ Undifferentiated Tuff		■ Background	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade				
▲ Dacite Flow	■ Semi-massive Sulphides	■ Sandstone	▲ Interbedded VSS/VSL/VSM &	■ Undifferentiated Volcanic		■ Background	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade				

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DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
100	HW	GRY-BLK	SGW	Clastic	bed	slt sla	cb py	Unit 5 of the WSF: Generally a series of interbedded grey-wacke and lithic-wacke turbidites (+/- shale). Occasional shale units may in fact be clasts due to sharp upper and lower contacts. The lower contact is transitional - it is marked where it becomes more shale dominant and probably part of the below mass flow rather than unit 5. Cleavage is at a high angle to bedding indicating close proximity to the hinge.							
110															
120															
130															
140															
150															

Legend										Mineralisation		
▲ Breccia - Undifferentiated	■ Felsic Flow	■ Disseminated Sulphides	● Interbedded sandstone/siltstone	■ Intermediate flow	■ Undifferentiated Volcaniclastic	■ Background	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade
▲ Fault Zone	■ Feldspathic porphyry	■ Quartz	▲ Andesite	■ Intermediate Volcaniclastic	■ Volcanic Breccia	■ Anomalous	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade
▲ Hyaloclastite Breccia	■ Mafic Dyke	■ Limestone	▲ Crystal Tuff	■ Lapilli Tuff	■ Volcanic Conglomerate	■ Anomalous	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade
▲ Pyroclastic Breccia	■ Quartz Feldspar Porphyry	■ Dolomite	▲ Dacite	■ Lithic Tuff	■ Volcanic Sandstone	■ Anomalous	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade
▲ Vein quartz	■ Quartz Porphyry	■ Shale	▲ Dacite Lapilli Tuff	■ Rhyolite	■ Volcanic Siltstone	■ Anomalous	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade
▲ Vein Carbonate	■ Schist	■ Siltstone	▲ Felsic tuff	■ Rhyolite Breccia	■ Not logged	■ Anomalous	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade
▲ Quartz Carbonate Vein	■ Slate	■ Chert	▲ Felsic Volcaniclastic	■ Tuff Siltstone		■ Anomalous	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade
▲ Andesite Flow	■ Massive sulphide	■ Greywacke	▲ Feldspathic (ash) tuff	■ Undifferentiated Tuff		■ Anomalous	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade
▲ Dacite Flow	■ Semi-massive Sulphides	■ Sandstone	▲ Interbedded VSS/VSL/VSM &	■ Undifferentiated Volcanic		■ Anomalous	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade

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Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
150	HW	GRY-BLK	SGW	Clastic	bed	slt sla	cb py	Unit 5 of the WSF: Generally a series of interbedded grey-wacke and lithic-wacke turbidites (+/- shale). Occasional shale units may in fact be clasts due to sharp upper and lower contacts. The lower contact is transitional - it is marked where it becomes more shale dominant and probably part of the below mass flow rather than unit 5. Cleavage is at a high angle to bedding indicating close proximity to the hinge.							
160															
170															
180															
190															
200															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ▬ Fault Zone ○ Hyaloclastite Breccia ▲ Pyroclastic Breccia ▬ Vein quartz ▬ Vein Carbonate ▬ Quartz Carbonate Vein ▲ Andesite Flow ▲ Dacite Flow 	<ul style="list-style-type: none"> ▬ Felsic Flow ▬ Feldspathic porphyry ▬ Mafic Dyke ▬ Quartz Feldspar Porphyry ▬ Quartz Porphyry ▬ Schist ▬ Slate ▬ Massive sulphide ▬ Semi-massive Sulphides 	<ul style="list-style-type: none"> ▬ Disseminated Sulphides ▬ Quartz ▬ Limestone ▬ Dolomite ▬ Shale ▬ Siltstone ▬ Chert ▬ Greywacke ▬ Sandstone 	<ul style="list-style-type: none"> ▬ Interbedded sandstone/siltstone ▬ Andesite ▬ Crystal Tuff ▬ Dacite ▬ Dacite Lapilli Tuff ▬ Felsic tuff ▬ Felsic Volcaniclastic ▬ Feldspathic (ash) tuff ▬ Interbedded VSS/VSL/VSM & 	<ul style="list-style-type: none"> ▬ Intermediate flow ▬ Intermediate Volcaniclastic ▬ Lapilli Tuff ▬ Lithic Tuff ▬ Rhyolite ▬ Rhyolite Breccia ▬ Tuff Siltstone ▬ Undifferentiated Tuff ▬ Undifferentiated Volcanic 	<ul style="list-style-type: none"> ▬ Undifferentiated Volcaniclastic ▬ Volcanic Breccia ▬ Volcanic Conglomerate ▬ Volcanic Sandstone ▬ Volcanic Siltstone ▬ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ▬ Background ▬ Elevated ▬ Anomalous ▬ Strongly Anomalous ▬ Sub-Grade ▬ Low-Grade ▬ High-Grade
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Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
200	HW	GRY-BLK	SGW	Clastic	bed	slt sla	cb py	Unit 5 of the WSF: Generally a series of interbedded grey-wacke and lithic-wacke turbidites (+/- shale). Occasional shale units may in fact be clasts due to sharp upper and lower contacts. The lower contact is transitional - it is marked where it becomes more shale dominant and probably part of the below mass flow rather than unit 5. Cleavage is at a high angle to bedding indicating close proximity to the hinge.							
210															
220															
230															
240															
250															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ▲ Fault Zone ○ Hyaloclastic Breccia ▲ Pyroclastic Breccia ▲ Vein quartz ▲ Vein Carbonate ▲ Quartz Carbonate Vein ▲ Andesite Flow ▲ Dacite Flow 	<ul style="list-style-type: none"> ▲ Felsic Flow ▲ Feldspathic porphyry ▲ Mafic Dyke ▲ Quartz Feldspar Porphyry ▲ Quartz Porphyry ▲ Schist ▲ Slate ▲ Massive sulphide ▲ Semi-massive Sulphides 	<ul style="list-style-type: none"> ▲ Disseminated Sulphides ▲ Quartz ▲ Limestone ▲ Dolomite ▲ Shale ▲ Siltstone ▲ Chert ▲ Greywacke ▲ Sandstone 	<ul style="list-style-type: none"> ▲ Interbedded sandstone/siltstone ▲ Andesite ▲ Crystal Tuff ▲ Dacite ▲ Dacite Lapilli Tuff ▲ Felsic tuff ▲ Felsic Volcaniclastic ▲ Feldspathic (ash) tuff ▲ Interbedded VSS/VSL/VSM & 	<ul style="list-style-type: none"> ▲ Intermediate flow ▲ Intermediate Volcaniclastic ▲ Lapilli Tuff ▲ Lithic Tuff ▲ Rhyolite ▲ Rhyolite Breccia ▲ Tuff Siltstone ▲ Undifferentiated Tuff ▲ Undifferentiated Volcanic 	<ul style="list-style-type: none"> ▲ Undifferentiated Volcaniclastic ▲ Volcanic Breccia ▲ Volcanic Conglomerate ▲ Volcanic Sandstone ▲ Volcanic Siltstone ▲ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ▲ Background ▲ Elevated ▲ Anomalous ▲ Strongly Anomalous ▲ Sub-Grade ▲ Low-Grade ▲ High-Grade
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Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
250	HW	GRY-BLK	SGW	Clastic	bed	slt sla	cb py	Unit 5 of the WSF: Generally a series of interbedded grey-wacke and lithic-wacke turbidites (+/- shale). Occasional shale units may in fact be clasts due to sharp upper and lower contacts. The lower contact is transitional - it is marked where it becomes more shale dominant and probably part of the below mass flow rather than unit 5. Cleavage is at a high angle to the bedding indicating close proximity to the hinge.							
260															
270															
280															
290	HW	BLK-GRY	SSH	Clastic	bed	sla	cb py	Black shale/mudstone. Pyrite blebs often mark the beds and are stretched into the cleavage. This is the fine top of the Unit 4 mass flow below.							
300															

▲ Breccia - Undifferentiated	■ Felsic Flow	■ Disseminated Sulphides	● Interbedded sandstone/siltstone	■ Intermediate flow	■ Undifferentiated Volcaniclastic
▲ Fault Zone	■ Feldspathic porphyry	■ Quartz	▲ Andesite	■ Intermediate Volcaniclastic	▼ Volcanic Breccia
○ Hyaloclastite Breccia	■ Mafic Dyke	■ Limestone	▲ Crystal Tuff	■ Lapilli Tuff	○ Volcanic Conglomerate
▲ Pyroclastic Breccia	■ Quartz Feldspar Porphyry	■ Dolomite	▲ Dacite	■ Lithic Tuff	○ Volcanic Sandstone
▲ Vein quartz	■ Quartz Porphyry	■ Shale	▲ Dacite Lapilli Tuff	■ Rhyolite	○ Volcanic Siltstone
▲ Vein Carbonate	■ Schist	■ Siltstone	▲ Felsic tuff	■ Rhyolite Breccia	■ Not logged
▲ Quartz Carbonate Vein	■ Slate	■ Chert	▲ Felsic Volcaniclastic	■ Tuff Siltstone	
▲ Andesite Flow	■ Massive sulphide	■ Greywacke	▲ Feldspathic (ash) tuff	■ Undifferentiated Tuff	
▲ Dacite Flow	■ Semi-massive Sulphides	■ Sandstone	▲ Interbedded VSS/VSL/VSM &	■ Undifferentiated Volcanic	

Mineralisation	
Background	
Elevated	
Anomalous	
Strongly Anomalous	
Sub-Grade	
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300	HW	BLK-GRY	SSH	Clastic	bed	sla	cb	py	Black shale/mudstone. Pyrite blebs often mark the beds and are stretched into the cleavage. This is the fine top of the Unit 4 mass flow below.						
330	HW	GRY	VBX	VolClas	brc	qfp pol	si cb		Unit 4 of the WSF: Polymict; crystals rich mass flow breccia. 20-25% Fd>Qz crystals with a coarse base composed of shale clasts >100cm; pumice; rhyolitic clasts and grey/white siliceous clasts (not limestone). This is a pretty sexy looking unit. The coarse basal part occurs from ~410m onwards. The upper fine siltstone if moderate to strongly silicified and has a somewhat hornfelsed appearance. The lower contact with the black mudstone is very sharp but conformable (or dis-conformable/erosional); and ~40 degrees to LCA.						
350															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⚡ Fault Zone ⊖ Hyaloclastite Breccia ▲ Pyroclastic Breccia ▨ Vein quartz ▨ Vein Carbonate ▨ Quartz Carbonate Vein ▲ Andesite Flow ▲ Dacite Flow 	<ul style="list-style-type: none"> ▨ Felsic Flow ▨ Feldspathic porphyry ▨ Mafic Dyke ▨ Quartz Feldspar Porphyry ▨ Quartz Porphyry ▨ Schist ▨ Slate ▨ Massive sulphide ▨ Semi-massive Sulphides 	<ul style="list-style-type: none"> ▨ Disseminated Sulphides ▨ Quartz ▨ Limestone ▨ Dolomite ▨ Shale ▨ Siltstone ▨ Chert ▨ Greywacke ▨ Sandstone 	<ul style="list-style-type: none"> ▨ Interbedded sandstone/siltstone ▨ Andesite ▨ Crystal Tuff ▨ Dacite ▨ Dacite Lapilli Tuff ▨ Felsic tuff ▨ Felsic Volcaniclastic ▨ Feldspathic (ash) tuff ▨ Interbedded VSS/VSL/VSM & 	<ul style="list-style-type: none"> ▨ Intermediate flow ▨ Intermediate Volcaniclastic ▨ Lapilli Tuff ▨ Lithic Tuff ▨ Rhyolite ▨ Rhyolite Breccia ▨ Tuff Siltstone ▨ Undifferentiated Tuff ▨ Undifferentiated Volcanic 	<ul style="list-style-type: none"> ▨ Undifferentiated Volcaniclastic ▨ Volcanic Breccia ▨ Volcanic Conglomerate ▨ Volcanic Sandstone ▨ Volcanic Siltstone ▨ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ▨ Background ▨ Elevated ▨ Anomalous ▨ Strongly Anomalous ▨ Sub-Grade ▨ Low-Grade ▨ High-Grade
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350	HW	GRY	VBX	VolClas	brc	qfp pol	si cb	Unit 4 of the WSF: Polymict; crystals rich mass flow breccia. 20-25% Fd>Qz crystals with a coarse base composed of shale clasts >100cm; pumice; rhyolitic clasts and grey/white siliceous clasts (not limestone). This is a pretty sexy looking unit. The coarse basal part occurs from ~410m onwards. The upper fine siltstone if moderate to strongly silicified and has a somewhat hornfelsed appearance. The lower contact with the black mudstone is very sharp but conformable (or dis-conformable/erosional); and ~40 degrees to LCA.							
360															
370															
380															
390									D1393483	0.0	0.0	0.0	0.06		3.1
400															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⚡ Fault Zone ⊖ Hyaloclastite Breccia ▲ Pyroclastic Breccia ▬ Vein quartz ▬ Vein Carbonate ▬ Quartz Carbonate Vein ▲ Andesite Flow ▲ Dacite Flow 	<ul style="list-style-type: none"> ▬ Felsic Flow ▬ Feldspathic porphyry ▬ Mafic Dyke ▬ Quartz Feldspar Porphyry ▬ Quartz Porphyry ▬ Schist ▬ Slate ▬ Massive sulphide ▬ Semi-massive Sulphides 	<ul style="list-style-type: none"> ▬ Disseminated Sulphides ▬ Quartz ▬ Limestone ▬ Dolomite ▬ Shale ▬ Siltstone ▬ Chert ▬ Greywacke ▬ Sandstone 	<ul style="list-style-type: none"> ● Interbedded sandstone/siltstone ▲ Andesite ▲ Crystal Tuff ▲ Dacite ▲ Dacite Lapilli Tuff ▲ Felsic tuff ▲ Felsic Volcaniclastic ▲ Feldspathic (ash) tuff ▲ Interbedded VSS/VSL/VSM & 	<ul style="list-style-type: none"> ▬ Intermediate flow ▬ Intermediate Volcaniclastic ▬ Lapilli Tuff ▬ Lithic Tuff ▬ Rhyolite ▬ Rhyolite Breccia ▬ Tuff Siltstone ▬ Undifferentiated Tuff ▬ Undifferentiated Volcanic 	<ul style="list-style-type: none"> ▬ Undifferentiated Volcaniclastic ▬ Volcanic Breccia ▬ Volcanic Conglomerate ▬ Volcanic Sandstone ▬ Volcanic Siltstone ▬ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ▬ Background ▬ Elevated ▬ Anomalous ▬ Strongly Anomalous ▬ Sub-Grade ▬ Low-Grade ▬ High-Grade
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400	HW	GRY	VBX	VolClas	brc	qfp pol	si cb	Unit 4 of the WSF: Polymict; crystals rich mass flow breccia. 20-25% Fd>Qz crystals with a coarse base composed of shale clasts >100cm; pumice; rhyolitic clasts and grey/white siliceous clasts (not limestone). This is a pretty sexy looking unit. The coarse basal part occurs from ~410m onwards. The upper fine siltstone if moderate to strongly silicified and has a somewhat hornfelsed appearance. The lower contact with the black mudstone is very sharp but conformable (or dis-conformable/erosional); and ~40 degrees to LCA.								
430								Black mudstone. Fine top of unit 3. Large fault; however it is not significant given mudstone occurs either side of the structure. Composed predominantly of 35cm of black pug and graphitic broken pieces of core. Black mudstone. Occasional Cb-Py veins; Py is typically disseminated/blebby but there are some nice euhedral shaped examples up 5mm. There is also one 5cm pumice "float". Cleavage is less obvious now; however it is still close to perpendicular to bedding but probably verging back to the East now.								
440	HW F	GRY-BLK BLK	SSH FTZ	VolClas Clastic	bed ftz	slt slt	cb gp	Unit 3 of the WSF: Polymict; crystal poor volcanoclastic breccia. This mass flow is composed of a very siliceous and apparently hornfelsed siltstone to ~520m. From 520m until the contact is a gradual increase in xtal content and lithics. Rare dark brown and feldspar phyric pumice floats are present in the upper siltstone top. Crystal content is around 5-10% with Fd>Qz; with a large proportion of the feldspars probably introduced via the pumice. Lithics present include rare mudstone clasts (2-10mm); occasional rhyolitic clasts; occasional fine grained grey/white siltstone? clasts (not limestone) and common phyllosilicate altered fiamme/pumice. The unit is coarser towards the contact at 566m however; this mass flow has not developed into the coarse basal part of the flow; with the largest lithics <30mm. The lower contact with the CVC is sharp but definitely not faulted and is probably disconformable.								
440	HW	GRY-BLK	SSH	VolClas	bed	slt pum	cb py									
450	HW	GRY-BUF	VBX	VolClas	brc	slt pum	si se cb									

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⊖ Fault Zone ⊖ Hyaloclastite Breccia ▲ Pyroclastic Breccia ▬ Vein quartz ▬ Vein Carbonate ▬ Quartz Carbonate Vein ▲ Andesite Flow ▲ Dacite Flow 	<ul style="list-style-type: none"> ▬ Felsic Flow ▬ Feldspathic porphyry ▬ Mafic Dyke ▬ Quartz Feldspar Porphyry ▬ Quartz Porphyry ▬ Schist ▬ Slate ▬ Chert ▬ Massive sulphide ▬ Semi-massive Sulphides 	<ul style="list-style-type: none"> ▬ Disseminated Sulphides ▬ Quartz ▬ Limestone ▬ Dolomite ▬ Shale ▬ Siltstone ▬ Chert ▬ Greywacke ▬ Sandstone 	<ul style="list-style-type: none"> ▬ Interbedded sandstone/siltstone ▬ Andesite ▬ Crystal Tuff ▬ Dacite ▬ Dacite Lapilli Tuff ▬ Felsic tuff ▬ Felsic Volcanoclastic ▬ Feldspathic (ash) tuff ▬ Interbedded VSS/VSL/VSM & 	<ul style="list-style-type: none"> ▬ Intermediate flow ▬ Intermediate Volcanoclastic ▬ Lapilli Tuff ▬ Lithic Tuff ▬ Rhyolite ▬ Rhyolite Breccia ▬ Tuff Siltstone ▬ Undifferentiated Tuff ▬ Undifferentiated Volcanic 	<ul style="list-style-type: none"> ▬ Undifferentiated Volcanoclastic ▬ Volcanic Breccia ▬ Volcanic Conglomerate ▬ Volcanic Sandstone ▬ Volcanic Siltstone ▬ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ▬ Background ▬ Elevated ▬ Anomalous ▬ Strongly Anomalous ▬ Sub-Grade ▬ Low-Grade ▬ High-Grade
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DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
550	HW	GRY-BUF	VBX	VolClas	brc	slt pum	si se cb	Unit 3 of the WSF: Polymict; crystal poor volcanoclastic breccia. This mass flow is composed of a very siliceous and apparently hornfelsed siltstone to ~520m. From 520m until the contact is a gradual increase in xtal content and lithics. Rare dark brown and feldspar phyruc pumice floats are present in the upper siltstone top. Crystal content is around 5-10% with Fd>Qz; with a large proportion of the feldspars probably introduced via the pumice. Lithics present include rare mudstone clasts (2-10mm); occasional rhyolitic clasts; occasional fine grained grey/white siltstone? clasts (not limestone) and common phyllosilicate altered fiamme/pumice. The unit is coarser towards the contact at 566m however; this mass flow has not developed into the coarse basal part of the flow; with the largest lithics <30mm. The lower contact with the CVC is sharp but definitely not faulted and is probably disconformable.	D1393484	0.0	0.0	0.0	0.16		1.1
									D1393485	0.0	0.0	0.0	0.11		1.0
									D1393486	0.0	0.0	0.0	0.07		2.5
	FW	GRY-PNK	VBX	VolClas	brc	fph pum	si kf se	CVC: Pumice breccia. Abundant white; 1-3mm angular to sub-angular Fd xtal crystals 25-30% in a pumice rich matrix. The pumice occurs as a creamy; wispy/hair-like texture; with fiamme type pumice only rarely visible. The rock is strongly silicified with variable pink K-spar alteration throughout. Overall the rock does not show visible signs of being strongly altered.							
570															
580															
590															
600															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⊖ Fault Zone ⊖ Hyaloclastic Breccia ▲ Pyroclastic Breccia ▬ Vein quartz ▬ Vein Carbonate ▬ Quartz Carbonate Vein ▲ Andesite Flow ▲ Dacite Flow 	<ul style="list-style-type: none"> ▬ Felsic Flow ▬ Feldspathic porphyry ▬ Mafic Dyke ▬ Quartz Feldspar Porphyry ▬ Quartz Porphyry ▬ Schist ▬ Slate ▬ Massive sulphide ▬ Semi-massive Sulphides 	<ul style="list-style-type: none"> ▬ Disseminated Sulphides ▬ Quartz ▬ Limestone ▬ Dolomite ▬ Shale ▬ Siltstone ▬ Chert ▬ Greywacke ▬ Sandstone 	<ul style="list-style-type: none"> ▬ Interbedded sandstone/siltstone ▬ Andesite ▬ Crystal Tuff ▬ Dacite ▬ Dacite Lapilli Tuff ▬ Felsic tuff ▬ Felsic Volcanoclastic ▬ Feldspathic (ash) tuff ▬ Interbedded VSS/VSL/VSM & 	<ul style="list-style-type: none"> ▬ Intermediate flow ▬ Intermediate Volcanoclastic ▬ Lapilli Tuff ▬ Lithic Tuff ▬ Rhyolite ▬ Rhyolite Breccia ▬ Tuff Siltstone ▬ Undifferentiated Tuff ▬ Undifferentiated Volcanic 	<ul style="list-style-type: none"> ▬ Undifferentiated Volcanoclastic ▬ Volcanic Breccia ▬ Volcanic Conglomerate ▬ Volcanic Sandstone ▬ Volcanic Siltstone ▬ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ▬ Background ▬ Elevated ▬ Anomalous ▬ Strongly Anomalous ▬ Sub-Grade ▬ Low-Grade ▬ High-Grade
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ROSEBERY LITHOLOGY_VMS LOG

Hole ID: WSP16



Project: WSP
White Spur
Prospect: WSP
Whitespur

Northing: 5362405.0 mN
Easting: 376137.0 mE
RL: 591.0 mRL
CoordSys: MGA55 (GDA94)

Dip: -70.00
MAG_Azim: 256.60
Total Depth: 857.3 m
DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
600	FW	GRY-PNK	VBX	VolClas	brc	fph pum	si kf se	CVC: Pumice breccia. Abundant white; 1-3mm angular to sub-angular Fd xtal crystals 25-30% in a pumice rich matrix. The pumice occurs as a creamy; wispy/hair-like texture; with fiamme type pumice only rarely visible. The rock is strongly silicified with variable pink K-spar alteration throughout. Overall the rock does not show visible signs of being strongly altered.							
610	FW	GRY	VBX	VolClas	brc	fph pum	si se py	Interesting interval! Apparent clasts of grey siltstone up to 30cm within the pumice breccias. The siltstone clasts appear to be thinly bedded; often with <1mm py blebs marking the beds. The largest of the clasts occurs from 608.9-609.2m (W/R sample taken). The upper contact of this particular clast is very sharp at 50 degrees to LCA; whereas the lower contact of the clast is somewhat deformed and irregular with thin parasitic folds visible. Assuming these are indeed clasts of siltstone (and not a flow banded rhyolite etc) could they be rafts of host rock within the CVC? **Actually I don't think this is geological possible unless the top of the CVC has been re-worked**	D1393487	0.0	0.0	0.0	0.10		2.8
620	FW	GRY-GRN	VBX	VolClas	brc	fph pum	si kf se	As for 566-608m but decreased K-spar alteration. Lower contact at 629.6 is sharp/conformable and appears to be with an intrusive. The 20cm above the contact contains a number 10-20mm thick Qz-Cl veins.							
630	POR	GRY	VRD	Intrusv	mas	fgr	si	Dacite intrusive?? Definitely a contact at 629.6m but lower contact is not clear and tentatively put as 653m. This is potentially just a change in alteration and grain size instead? However, I'm yet to find a culprit for the hornfelsed siltstones at the top of unit 3.	D1393488	0.0	0.0	0.0	0.09		2.2
640	FW	GRY-PNK	VBX	VolClas	brc	fph fia	si kf se	Variably silicified/bleached and intensely pink K-spar altered feldspar xtal rich breccia. The increased k-spar alteration makes identifying the pumice wisps difficult; however occasional bands of fiamme are becoming visible now. Broken core from 644.5-645m but does not appear to be significant.							
650															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⊖ Fault Zone ⊖ Hyaloclastite Breccia ▲ Pyroclastic Breccia ▬ Vein quartz ▬ Vein Carbonate ▬ Quartz Carbonate Vein ▲ Andesite Flow ▲ Dacite Flow 	<ul style="list-style-type: none"> ▬ Felsic Flow ▬ Feldspathic porphyry ▬ Mafic Dyke ▬ Quartz Feldspar Porphyry ▬ Quartz Porphyry ▬ Schist ▬ Slate ▬ Massive sulphide ▬ Semi-massive Sulphides 	<ul style="list-style-type: none"> ▬ Disseminated Sulphides ▬ Quartz ▬ Limestone ▬ Dolomite ▬ Shale ▬ Siltstone ▬ Chert ▬ Greywacke ▬ Sandstone 	<ul style="list-style-type: none"> ▬ Interbedded sandstone/siltstone ▬ Andesite ▬ Crystal Tuff ▬ Dacite ▬ Dacite Lapilli Tuff ▬ Felsic tuff ▬ Felsic Volcaniclastic ▬ Feldspathic (ash) tuff ▬ Interbedded VSS/VSL/VSM & 	<ul style="list-style-type: none"> ▬ Intermediate flow ▬ Intermediate Volcaniclastic ▬ Lapilli Tuff ▬ Lithic Tuff ▬ Rhyolite ▬ Rhyolite Breccia ▬ Tuff Siltstone ▬ Undifferentiated Tuff ▬ Undifferentiated Volcanic 	<ul style="list-style-type: none"> ▬ Undifferentiated Volcaniclastic ▬ Volcanic Breccia ▬ Volcanic Conglomerate ▬ Volcanic Sandstone ▬ Volcanic Siltstone ▬ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ▬ Background ▬ Elevated ▬ Anomalous ▬ Strongly Anomalous ▬ Sub-Grade ▬ Low-Grade ▬ High-Grade
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ROSEBERY LITHOLOGY_VMS LOG

Hole ID: WSP16



Project: WSP

White Spur

Prospect: WSP

Whitespur

Northing: 5362405.0 mN

Dip: -70.00

Easting: 376137.0 mE

MAG_Azim: 256.60

RL: 591.0 mRL

Total Depth: 857.3 m

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
650	FW	GRY-PNK	VBX	VolClas	brc	fph fia	si kf se	Variably silicified/bleached and intensely pink K-spar altered feldspar xtal rich breccia. The increased k-spar alteration makes identifying the pumice wisps difficult; however occasional bands of fiamme are becoming visible now. Broken core from 644.5-645m but does not appear to be significant.							
660															
670															
680															
690															
700															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⊖ Fault Zone ⊖ Hyaloclastic Breccia ▲ Pyroclastic Breccia ▬ Vein quartz ▬ Vein Carbonate ▬ Quartz Carbonate Vein ▲ Andesite Flow ▲ Dacite Flow 	<ul style="list-style-type: none"> ▬ Felsic Flow ▬ Feldspathic porphyry ▬ Mafic Dyke ▬ Quartz Feldspar Porphyry ▬ Quartz Porphyry ▬ Schist ▬ Slate ▬ Massive sulphide ▬ Semi-massive Sulphides 	<ul style="list-style-type: none"> ▬ Disseminated Sulphides ▬ Quartz ▬ Limestone ▬ Dolomite ▬ Shale ▬ Siltstone ▬ Chert ▬ Greywacke ▬ Sandstone 	<ul style="list-style-type: none"> ● Interbedded sandstone/siltstone ▲ Andesite ▲ Crystal Tuff ▲ Dacite ▲ Dacite Lapilli Tuff ▲ Felsic tuff ▲ Felsic Volcaniclastic ▲ Feldspathic (ash) tuff ▲ Interbedded VSS/VSL/VSM & 	<ul style="list-style-type: none"> ▬ Intermediate flow ▬ Intermediate Volcaniclastic ▬ Lapilli Tuff ▬ Lithic Tuff ▬ Rhyolite ▬ Rhyolite Breccia ▬ Tuff Siltstone ▬ Undifferentiated Tuff ▬ Undifferentiated Volcanic 	<ul style="list-style-type: none"> ▬ Undifferentiated Volcaniclastic ▬ Volcanic Breccia ▬ Volcanic Conglomerate ▬ Volcanic Sandstone ▬ Volcanic Siltstone ▬ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ▬ Background ▬ Elevated ▬ Anomalous ▬ Strongly Anomalous ▬ Sub-Grade ▬ Low-Grade ▬ High-Grade
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CoordSys: MGA55 (GDA94)

DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
700	FW	GRY-PNK	VBX	VolClas	brc	fph fia	si kf se	Variably silicified/bleached and intensely pink K-spar altered feldspar xtal rich breccia. The increased k-spar alteration makes identifying the pumice wisps difficult; however occasional bands of fiamme are becoming visible now. Broken core from 644.5-645m but does not appear to be significant.							
710	FW	GRY-PNK	VBX	VolClas	brc	fph pum	si kf se	Feldspar crystal rich pumice breccias. Alteration varies between patchy K-spar and weak Se-Cl alteration throughout to EoH. Overall a disappointing hole with the Unit Black Mudstone and Host rocks completely missing from the stratigraphy and potentially eroded (similar to MR1). However; cleavage/bedding relationships suggest the hole drilled close to the anticlinal hinge.							
720															
730									D1393489	0.0	0.0	0.0	0.02		1.7
740															
750															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⚡ Fault Zone ⊖ Hyaloclastite Breccia ▲ Pyroclastic Breccia ▬ Vein quartz ▬ Vein Carbonate ▬ Quartz Carbonate Vein ▲ Andesite Flow ▲ Dacite Flow 	<ul style="list-style-type: none"> ▬ Felsic Flow ▬ Feldspathic porphyry ▬ Mafic Dyke ▬ Quartz Feldspar Porphyry ▬ Quartz Porphyry ▬ Schist ▬ Slate ▬ Massive sulphide ▬ Semi-massive Sulphides 	<ul style="list-style-type: none"> ▬ Disseminated Sulphides ▬ Quartz ▬ Limestone ▬ Dolomite ▬ Shale ▬ Siltstone ▬ Chert ▬ Greywacke ▬ Sandstone 	<ul style="list-style-type: none"> ● Interbedded sandstone/siltstone ▲ Andesite ▲ Crystal Tuff ▲ Dacite ▲ Dacite Lapilli Tuff ▲ Felsic tuff ▲ Felsic Volcaniclastic ▲ Feldspathic (ash) tuff ▲ Interbedded VSS/VSL/VSM & 	<ul style="list-style-type: none"> ▬ Intermediate flow ▬ Intermediate Volcaniclastic ▬ Lapilli Tuff ▬ Lithic Tuff ▬ Rhyolite ▬ Rhyolite Breccia ▬ Tuff Siltstone ▬ Undifferentiated Tuff ▬ Undifferentiated Volcanic 	<ul style="list-style-type: none"> ▬ Undifferentiated Volcaniclastic ▬ Volcanic Breccia ▬ Volcanic Conglomerate ▬ Volcanic Sandstone ▬ Volcanic Siltstone ▬ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ▬ Background ▬ Elevated ▬ Anomalous ▬ Strongly Anomalous ▬ Sub-Grade ▬ Low-Grade ▬ High-Grade
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Total Depth: 857.3 m

CoordSys: MGA55 (GDA94)

DrillCompany: BLY

Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
750	FW	GRY-PNK	VBX	VolClas	brc	fph pum	si kf se	Feldspar crystal rich pumice breccias. Alteration varies between patchy K-spar and weak Se-Cl alteration throughout to EoH. Overall a disappointing hole with the Unit Black Mudstone and Host rocks completely missing from the stratigraphy and potentially eroded (similar to MR1). However; cleavage/bedding relationships suggest the hole drilled close to the anticlinal hinge.							
760															
770															
780															
790															
800															

Legend										Mineralisation		
▲ Breccia - Undifferentiated	■ Felsic Flow	■ Disseminated Sulphides	● Interbedded sandstone/siltstone	■ Intermediate flow	■ Undifferentiated Volcaniclastic	■ Background	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade
▲ Fault Zone	■ Feldspathic porphyry	■ Quartz	▲ Andesite	■ Intermediate Volcaniclastic	■ Volcanic Breccia	■ Anomalous	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade
▲ Hyaloclastite Breccia	■ Mafic Dyke	■ Limestone	▲ Crystal Tuff	■ Lapilli Tuff	■ Volcanic Conglomerate	■ Anomalous	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade
▲ Pyroclastic Breccia	■ Quartz Feldspar Porphyry	■ Dolomite	▲ Dacite	■ Lithic Tuff	■ Volcanic Sandstone	■ Anomalous	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade
▲ Vein quartz	■ Quartz Porphyry	■ Shale	▲ Dacite Lapilli Tuff	■ Rhyolite	■ Volcanic Siltstone	■ Anomalous	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade
▲ Vein Carbonate	■ Schist	■ Siltstone	▲ Felsic tuff	■ Rhyolite Breccia	■ Not logged	■ Anomalous	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade
▲ Quartz Carbonate Vein	■ Slate	■ Chert	▲ Felsic Volcaniclastic	■ Tuff Siltstone		■ Anomalous	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade
▲ Andesite Flow	■ Massive sulphide	■ Greywacke	▲ Feldspathic (ash) tuff	■ Undifferentiated Tuff		■ Anomalous	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade
▲ Dacite Flow	■ Semi-massive Sulphides	■ Sandstone	▲ Interbedded VSS/VSL/VSM &	■ Undifferentiated Volcanic		■ Anomalous	■ Elevated	■ Anomalous	■ Strongly Anomalous	■ Sub-Grade	■ Low-Grade	■ High-Grade

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Whitespur

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Strat	Colour	Lithology	Genetic Text	Litho Facies	Texture	Alt	Min	Summary	Sample_ID	Pb pct	Zn pct	Cu pct	Ag ppm	Au ppm	Fe pct
FW	GRY-PNK	VBX	VolClas	brc	fph pum	si kf se		Feldspar crystal rich pumice breccias. Alteration varies between patchy K-spar and weak Se-Cl alteration throughout to EoH. Overall a disappointing hole with the Unit Black Mudstone and Host rocks completely missing from the stratigraphy and potentially eroded (similar to MR1). However; cleavage/bedding relationships suggest the hole drilled close to the anticlinal hinge.							

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