

ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 397R-D1



Project: ROS

Rosebery

Prospect: RMN

Rosebery Mine North

Northing: 5377807.9 mN

Dip: -90.00

Easting: 379927.0 mE

MAG_Azim: 241.00

RL: 434.5 mRL

Total Depth: 1597.1 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
0															
10															
20															
30															
40															
50															

▲ Andesite	■ Disseminated Sulphides	▨ Interbedded siltstone/shale	■ Not logged	■ Schist	■ Undifferentiated Volcanic
▲ Andesite Flow	■ Dolomite	▨ Interbedded VSS/VSL/VSM &	▲ Pyroclastic Breccia	■ See comments for full descrip	■ Undifferentiated Volcaniclastic
▲ Basalt	■ Fault Zone	▨ Intermediate flow	■ Quartz	■ Semi-massive Sulphides	■ Vein Carbonate
▲ Breccia - Undifferentiated	■ Feldspathic (ash) tuff	▨ Intermediate Volcaniclastic	■ Quartz Carbonate Vein	■ Shale	■ Vein quartz
▲ Calcarenite	■ Feldspathic porphyry	▨ Lapilli Tuff	■ Quartz Feldspar Porphyry	■ Slate	■ Volcanic Breccia
▲ Chert	■ Felsic Flow	▨ Limestone	■ Quartz Porphyry	■ Tuff Siltstone	■ Volcanic Conglomerate
▲ Clay	■ Felsic tuff	▨ Lithic Tuff	■ Quartzite	■ Undifferentiated Black Shale	■ Volcanic Sandstone
▲ Crystal Tuff	■ Felsic Volcaniclastic	▨ Mafic Dyke	■ Rhyodacite	■ Undifferentiated Felsic Volcanic	■ Volcanic Siltstone
▲ Dacite	■ Greywacke	▨ Mafic Volcaniclastic	■ Rhyolite	■ Undifferentiated Fluvio-glacial Sediment	
▲ Dacite Breccia	■ Hyaloclastite Breccia	▨ Massive sulphide	■ Rhyolite Breccia	■ Undifferentiated Mafic Intrusive	
▲ Dacite Flow	■ Interbedded sandstone/shale	▨ Mudstone	■ Rhyolite Tuff	■ Sandstone	
▲ Dacite Lapilli Tuff	■ Interbedded sandstone/siltsto	▨ No Core Present	■ Sandstone		

Mineralisation	
■ Background	
■ Elevated	
■ Anomalous	
■ Strongly Anomalous	
■ Sub-Grade	
■ Low-Grade	
■ High-Grade	

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50															
60															
70															
80															
90															
100															

▲ Andesite	■ Disseminated Sulphides	▨ Interbedded siltstone/shale	■ Not logged	■ Schist	■ Undifferentiated Volcanic
▲ Andesite Flow	■ Dolomite	▨ Interbedded VSS/VSL/VSM &	▲ Pyroclastic Breccia	■ See comments for full descrip	■ Undifferentiated Volcaniclastic
▲ Basalt	■ Fault Zone	▨ Intermediate flow	■ Quartz	■ Semi-massive Sulphides	■ Vein Carbonate
▲ Breccia - Undifferentiated	■ Feldspathic (ash) tuff	▨ Intermediate Volcaniclastic	■ Quartz Carbonate Vein	■ Shale	■ Vein quartz
▲ Calcarenite	■ Feldspathic porphyry	▨ Lapilli Tuff	■ Quartz Feldspar Porphyry	■ Slate	■ Volcanic Breccia
▲ Chert	■ Felsic Flow	▨ Limestone	■ Quartz Porphyry	■ Tuff Siltstone	■ Volcanic Conglomerate
▲ Clay	■ Felsic tuff	▨ Lithic Tuff	■ Quartzite	■ Volcanic Sandstone	■ Volcanic Siltstone
▲ Crystal Tuff	■ Felsic Volcaniclastic	▨ Mafic Dyke	■ Rhyodacite	■ Undifferentiated Black Shale	■ Undifferentiated Felsic Volcanic
▲ Dacite	■ Greywacke	▨ Mafic Volcaniclastic	■ Rhyolite	■ Undifferentiated Felsic Volcanic	■ Undifferentiated Fluvio-glacial Sediment
▲ Dacite Breccia	■ Hyaloclastite Breccia	▨ Massive sulphide	■ Rhyolite Breccia	■ Rhyolite Breccia	■ Undifferentiated Mafic Intrusive
▲ Dacite Flow	■ Interbedded sandstone/shale	▨ Mudstone	■ Rhyolite Tuff	■ Sandstone	■ Undifferentiated Tuff
▲ Dacite Lapilli Tuff	■ Interbedded sandstone/siltsto	▨ No Core Present			

Mineralisation	
■ Background	■ Elevated
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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
100															
110															
120															
130															
140															
150															

<ul style="list-style-type: none"> ▲ Andesite ▲ Andesite Flow ▼ Basalt ▲ Breccia - Undifferentiated ▲ Calcarenite ▲ Chert ▲ Clay ▲ Crystal Tuff ▲ Dacite ▲ Dacite Breccia ▲ Dacite Flow ▲ Dacite Lapilli Tuff 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Dolomite ■ Fault Zone ■ Feldspathic (ash) tuff ■ Feldspathic porphyry ■ Felsic Flow ■ Felsic tuff ■ Felsic Volcaniclastic ○ Greywacke ○ Hyaloclastite Breccia ○ Interbedded sandstone/shale ○ Interbedded sandstone/siltsto 	<ul style="list-style-type: none"> ■ Interbedded siltstone/shale ■ Interbedded VSS/VSL/VSM & ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Limestone ■ Lithic Tuff ■ Mafic Dyke ■ Mafic Volcaniclastic ■ Massive sulphide ■ Mudstone ■ No Core Present 	<ul style="list-style-type: none"> ■ Not logged ▲ Pyroclastic Breccia ■ Quartz ■ Quartz Carbonate Vein ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Quartzite ■ Rhodacite ■ Rhyolite ■ Rhyolite Breccia ■ Rhyolite Tuff ■ Sandstone 	<ul style="list-style-type: none"> ■ Schist ■ See comments for full descrip ■ Semi-massive Sulphides ■ Shale ■ Slate ■ Tuff Siltstone ■ Undifferentiated Black Shale ■ Rhyolite ■ Undifferentiated Felsic Volcanic ■ Undifferentiated Fluvio-glacial Sediment ■ Undifferentiated Mafic Intrusive ■ Undifferentiated Tuff 	<ul style="list-style-type: none"> ■ Undifferentiated Volcanic ■ Undifferentiated Volcaniclastic ■ Vein Carbonate ■ Vein quartz ■ Volcanic Breccia ■ Volcanic Conglomerate ○ Volcanic Sandstone ○ Volcanic Siltstone 	<p>Mineralisation</p> <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade ■ Low-Grade ■ High-Grade
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150															
160															
170															
180															
190															
200															

▲ Andesite	■ Disseminated Sulphides	▨ Interbedded siltstone/shale	■ Not logged	■ Schist	■ Undifferentiated Volcanic
▲ Andesite Flow	■ Dolomite	▨ Interbedded VSS/VSL/VSM &	▲ Pyroclastic Breccia	■ See comments for full descrip	■ Undifferentiated Volcaniclastic
▲ Basalt	■ Fault Zone	▨ Intermediate flow	■ Quartz	■ Semi-massive Sulphides	■ Vein Carbonate
▲ Breccia - Undifferentiated	■ Feldspathic (ash) tuff	▨ Intermediate Volcaniclastic	■ Quartz Carbonate Vein	■ Shale	■ Vein quartz
▲ Calcarenite	■ Feldspathic porphyry	▨ Lapilli Tuff	■ Quartz Feldspar Porphyry	■ Slate	■ Volcanic Breccia
▲ Chert	■ Felsic Flow	▨ Limestone	■ Quartz Porphyry	■ Tuff Siltstone	■ Volcanic Conglomerate
▲ Clay	■ Felsic tuff	▨ Lithic Tuff	■ Quartzite	■ Undifferentiated Black Shale	■ Volcanic Sandstone
▲ Crystal Tuff	■ Felsic Volcaniclastic	▨ Mafic Dyke	■ Rhyodacite	■ Undifferentiated Felsic Volcanic	■ Volcanic Siltstone
▲ Dacite	■ Greywacke	▨ Mafic Volcaniclastic	■ Rhyolite	■ Undifferentiated Fluvio-glacial Sediment	
▲ Dacite Breccia	■ Hyaloclastite Breccia	▨ Massive sulphide	■ Rhyolite Breccia	■ Undifferentiated Mafic Intrusive	
▲ Dacite Flow	■ Interbedded sandstone/shale	▨ Mudstone	■ Rhyolite Tuff	■ Undifferentiated Tuff	
▲ Dacite Lapilli Tuff	■ Interbedded sandstone/siltsto	▨ No Core Present	■ Sandstone		

Mineralisation	
■ Background	
■ Elevated	
■ Anomalous	
■ Strongly Anomalous	
■ Sub-Grade	
■ Low-Grade	
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200															
210															
220															
230															
240															
250															

▲ Andesite	■ Disseminated Sulphides	▨ Interbedded siltstone/shale	■ Not logged	■ Schist	■ Undifferentiated Volcanic
▲ Andesite Flow	■ Dolomite	▨ Interbedded VSS/VSL/VSM &	▲ Pyroclastic Breccia	■ See comments for full descrip	■ Undifferentiated Volcaniclastic
▲ Basalt	■ Fault Zone	▨ Intermediate flow	■ Quartz	■ Semi-massive Sulphides	■ Vein Carbonate
▲ Breccia - Undifferentiated	■ Feldspathic (ash) tuff	▨ Intermediate Volcaniclastic	■ Quartz Carbonate Vein	■ Shale	■ Vein quartz
▲ Calcarenite	■ Feldspathic porphyry	▨ Lapilli Tuff	■ Quartz Feldspar Porphyry	■ Slate	■ Volcanic Breccia
▲ Chert	■ Felsic Flow	▨ Limestone	■ Quartz Porphyry	■ Tuff Siltstone	■ Volcanic Conglomerate
▲ Clay	■ Felsic tuff	▨ Lithic Tuff	■ Quartzite	■ Volcanic Sandstone	■ Volcanic Siltstone
▲ Crystal Tuff	■ Felsic Volcaniclastic	▨ Mafic Dyke	■ Rhyodacite	■ Undifferentiated Black Shale	■ Undifferentiated Felsic Volcanic
▲ Dacite	■ Greywacke	▨ Mafic Volcaniclastic	■ Rhyolite	■ Undifferentiated Felsic Volcanic	■ Undifferentiated Fluvio-glacial Sediment
▲ Dacite Breccia	■ Hyaloclastite Breccia	▨ Massive sulphide	■ Rhyolite Breccia	■ Rhyolite Breccia	■ Undifferentiated Mafic Intrusive
▲ Dacite Flow	■ Interbedded sandstone/shale	▨ Mudstone	■ Rhyolite Tuff	■ Sandstone	■ Undifferentiated Tuff
▲ Dacite Lapilli Tuff	■ Interbedded sandstone/siltsto	▨ No Core Present	■ Sandstone		

Mineralisation	
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250															
260															
270															
280															
290															
300															

<ul style="list-style-type: none"> ▲ Andesite ▲ Andesite Flow ▼ Basalt ▲ Breccia - Undifferentiated ▲ Calcarenite ▲ Chert ▲ Clay ▲ Crystal Tuff ▲ Dacite ▲ Dacite Breccia ▲ Dacite Flow ▲ Dacite Lapilli Tuff 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ○ Dolomite ○ Fault Zone ▲ Feldspathic (ash) tuff ▲ Feldspathic porphyry ▲ Felsic Flow ▲ Felsic tuff ▲ Felsic Volcaniclastic ○ Greywacke ○ Hyaloclastite Breccia ○ Interbedded sandstone/shale ○ Interbedded sandstone/siltsto 	<ul style="list-style-type: none"> ■ Interbedded siltstone/shale ■ Interbedded VSS/VSL/VSM & ■ Intermediate flow ■ Intermediate Volcaniclastic ▲ Lapilli Tuff ■ Limestone ▲ Lithic Tuff ▲ Mafic Dyke ■ Mafic Volcaniclastic ■ Massive sulphide ■ Mudstone ■ No Core Present 	<ul style="list-style-type: none"> ■ Not logged ▲ Pyroclastic Breccia ▲ Quartz ▲ Quartz Carbonate Vein ▲ Quartz Feldspar Porphyry ▲ Quartz Porphyry ▲ Quartzite ▲ Rhodacite ▲ Rhyolite ▲ Rhyolite Breccia ▲ Rhyolite Tuff ▲ Sandstone 	<ul style="list-style-type: none"> ■ Schist ■ See comments for full descrip ■ Semi-massive Sulphides ■ Shale ○ Slate ■ Tuff Siltstone ■ Undifferentiated Black Shale ■ Rhyolite ■ Undifferentiated Felsic Volcanic ■ Undifferentiated Fluvioglacial Sediment ■ Undifferentiated Mafic Intrusive ■ Undifferentiated Tuff 	<ul style="list-style-type: none"> ■ Undifferentiated Volcanic ■ Undifferentiated Volcaniclastic ▲ Vein Carbonate ▲ Vein quartz ▲ Volcanic Breccia ▲ Volcanic Conglomerate ○ Volcanic Sandstone ○ Volcanic Siltstone 	<p>Mineralisation</p> <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade ■ Low-Grade ■ High-Grade
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300															
310															
320															
330															
340															
350															

▲ Andesite	■ Disseminated Sulphides	▨ Interbedded siltstone/shale	■ Not logged	■ Schist	■ Undifferentiated Volcanic
▲ Andesite Flow	■ Dolomite	▨ Interbedded VSS/VSL/VSM &	▲ Pyroclastic Breccia	■ See comments for full descrip	■ Undifferentiated Volcaniclastic
▲ Basalt	■ Fault Zone	▨ Intermediate flow	■ Quartz	■ Semi-massive Sulphides	■ Vein Carbonate
▲ Breccia - Undifferentiated	■ Feldspathic (ash) tuff	▨ Intermediate Volcaniclastic	■ Quartz Carbonate Vein	■ Shale	■ Vein quartz
▲ Calcarenite	■ Feldspathic porphyry	▨ Lapilli Tuff	■ Quartz Feldspar Porphyry	■ Slate	■ Volcanic Breccia
▲ Chert	■ Felsic Flow	▨ Limestone	■ Quartz Porphyry	■ Tuff Siltstone	■ Volcanic Conglomerate
▲ Clay	■ Felsic tuff	▨ Lithic Tuff	■ Quartzite	■ Undifferentiated Black Shale	■ Volcanic Sandstone
▲ Crystal Tuff	■ Felsic Volcaniclastic	▨ Mafic Dyke	■ Rhyodacite	■ Undifferentiated Felsic Volcanic	■ Volcanic Siltstone
▲ Dacite	■ Greywacke	▨ Mafic Volcaniclastic	■ Rhyolite	■ Undifferentiated Fluvio-glacial Sediment	
▲ Dacite Breccia	■ Hyaloclastite Breccia	▨ Massive sulphide	■ Rhyolite Breccia	■ Undifferentiated Mafic Intrusive	
▲ Dacite Flow	■ Interbedded sandstone/shale	▨ Mudstone	■ Rhyolite Tuff	■ Undifferentiated Tuff	
▲ Dacite Lapilli Tuff	■ Interbedded sandstone/siltsto	▨ No Core Present	■ Sandstone		

Mineralisation	
■ Background	
■ Elevated	
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■ Sub-Grade	
■ Low-Grade	
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350															
360															
370															
380															
390															
400															

<ul style="list-style-type: none"> Andesite Andesite Flow Basalt Breccia - Undifferentiated Calcarenite Chert Clay Crystal Tuff Dacite Dacite Breccia Dacite Flow Dacite Lapilli Tuff 	<ul style="list-style-type: none"> Disseminated Sulphides Dolomite Fault Zone Feldspathic (ash) tuff Feldspathic porphyry Felsic Flow Felsic tuff Felsic Volcaniclastic Greywacke Hyaloclastite Breccia Interbedded sandstone/shale Interbedded sandstone/siltsto 	<ul style="list-style-type: none"> Interbedded siltstone/shale Interbedded VSS/VSL/VSM & Intermediate flow Intermediate Volcaniclastic Lapilli Tuff Limestone Lithic Tuff Mafic Dyke Mafic Volcaniclastic Massive sulphide Mudstone No Core Present 	<ul style="list-style-type: none"> Not logged Pyroclastic Breccia Quartz Quartz Carbonate Vein Quartz Feldspar Porphyry Quartz Porphyry Quartzite Rhodacite Rhyolite Rhyolite Breccia Rhyolite Tuff Sandstone 	<ul style="list-style-type: none"> Schist See comments for full descrip Semi-massive Sulphides Shale Siltstone Slate Tuff Siltstone Undifferentiated Black Shale Rhyolite Undifferentiated Felsic Volcanic Undifferentiated Fluvioglacial Sediment Undifferentiated Mafic Intrusive Undifferentiated Tuff 	<ul style="list-style-type: none"> Undifferentiated Volcanic Undifferentiated Volcaniclastic Vein Carbonate Vein quartz Volcanic Breccia Volcanic Conglomerate Volcanic Sandstone Volcanic Siltstone 	<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															
410															
420															
430															
440															
450															

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▲ Andesite Flow	■ Dolomite	▨ Interbedded VSS/VSL/VSM &	▲ Pyroclastic Breccia	■ See comments for full descrip	■ Undifferentiated Volcaniclastic
▲ Basalt	■ Fault Zone	▨ Intermediate flow	■ Quartz	■ Semi-massive Sulphides	■ Vein Carbonate
▲ Breccia - Undifferentiated	■ Feldspathic (ash) tuff	▨ Intermediate Volcaniclastic	■ Quartz Carbonate Vein	■ Shale	■ Vein quartz
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▲ Crystal Tuff	■ Felsic Volcaniclastic	▨ Mafic Dyke	■ Rhyodacite	■ Undifferentiated Black Shale	■ Undifferentiated Felsic Volcanic
▲ Dacite	■ Greywacke	▨ Mafic Volcaniclastic	■ Rhyolite	■ Undifferentiated Felsic Volcanic	■ Undifferentiated Fluvio-glacial Sediment
▲ Dacite Breccia	■ Hyaloclastite Breccia	▨ Massive sulphide	■ Rhyolite Breccia	■ Rhyolite Breccia	■ Undifferentiated Mafic Intrusive
▲ Dacite Flow	■ Interbedded sandstone/shale	▨ Mudstone	■ Rhyolite Tuff	■ Sandstone	■ Undifferentiated Tuff
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460															
470															
480															
490															
500															

<ul style="list-style-type: none"> ▲ Andesite ▲ Andesite Flow ▼ Basalt ▲ Breccia - Undifferentiated ▲ Calcarenite ■ Chert ■ Clay ▲ Crystal Tuff ▲ Dacite ▲ Dacite Breccia ▲ Dacite Flow ▲ Dacite Lapilli Tuff 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Dolomite ■ Fault Zone ■ Feldspathic (ash) tuff ■ Feldspathic porphyry ■ Felsic Flow ■ Felsic tuff ■ Felsic Volcaniclastic ○ Greywacke ○ Hyaloclastite Breccia ○ Interbedded sandstone/shale ○ Interbedded sandstone/siltsto 	<ul style="list-style-type: none"> ■ Interbedded siltstone/shale ■ Interbedded VSS/VSL/VSM & ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Limestone ■ Lithic Tuff ■ Mafic Dyke ■ Mafic Volcaniclastic ■ Massive sulphide ■ Mudstone ■ No Core Present 	<ul style="list-style-type: none"> ■ Not logged ▲ Pyroclastic Breccia ■ Quartz ■ Quartz Carbonate Vein ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Quartzite ■ Rhodacite ■ Rhyolite ■ Rhyolite Breccia ■ Rhyolite Tuff ■ Sandstone 	<ul style="list-style-type: none"> ■ Schist ■ See comments for full descrip ■ Semi-massive Sulphides ■ Shale ■ Siltstone ■ Slate ■ Tuff Siltstone ■ Undifferentiated Black Shale ■ Rhyolite ■ Undifferentiated Felsic Volcanic ■ Undifferentiated Fluvioglacial Sediment ■ Undifferentiated Mafic Intrusive ■ Undifferentiated Tuff 	<ul style="list-style-type: none"> ■ Undifferentiated Volcanic ■ Undifferentiated Volcaniclastic ■ Vein Carbonate ■ Vein quartz ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone 	<p>Mineralisation</p> <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade ■ Low-Grade ■ High-Grade
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500															
510															
520															
530															
540															
550															

▲ Andesite	■ Disseminated Sulphides	▨ Interbedded siltstone/shale	■ Not logged	■ Schist	■ Undifferentiated Volcanic
▲ Andesite Flow	■ Dolomite	▨ Interbedded VSS/VSL/VSM &	▲ Pyroclastic Breccia	■ See comments for full descrip	■ Undifferentiated Volcaniclastic
▲ Basalt	■ Fault Zone	▨ Intermediate flow	■ Quartz	■ Semi-massive Sulphides	■ Vein Carbonate
▲ Breccia - Undifferentiated	■ Feldspathic (ash) tuff	▨ Intermediate Volcaniclastic	■ Quartz Carbonate Vein	■ Shale	■ Vein quartz
▲ Calcarenite	■ Feldspathic porphyry	▨ Lapilli Tuff	■ Quartz Feldspar Porphyry	■ Slate	■ Volcanic Breccia
▲ Chert	■ Felsic Flow	▨ Limestone	■ Quartz Porphyry	■ Tuff Siltstone	■ Volcanic Conglomerate
▲ Clay	■ Felsic tuff	▨ Lithic Tuff	■ Quartzite	■ Volcanic Sandstone	■ Volcanic Siltstone
▲ Crystal Tuff	■ Felsic Volcaniclastic	▨ Mafic Dyke	■ Rhyodacite	■ Undifferentiated Black Shale	■ Undifferentiated Felsic Volcanic
▲ Dacite	■ Greywacke	▨ Mafic Volcaniclastic	■ Rhyolite	■ Undifferentiated Felsic Volcanic	■ Undifferentiated Fluvio-glacial Sediment
▲ Dacite Breccia	■ Hyaloclastite Breccia	▨ Massive sulphide	■ Rhyolite Breccia	■ Undifferentiated Mafic Intrusive	■ Undifferentiated Mafic Intrusive
▲ Dacite Flow	■ Interbedded sandstone/shale	▨ Mudstone	■ Rhyolite Tuff	■ Sandstone	■ Sandstone
▲ Dacite Lapilli Tuff	■ Interbedded sandstone/siltsto	▨ No Core Present	■ Sandstone		

Mineralisation	
■ Background	■ Elevated
■ Anomalous	■ Strongly Anomalous
■ Sub-Grade	■ Low-Grade
■ High-Grade	

ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 397R-D1



Project: ROS

Rosebery

Prospect: RMN

Rosebery Mine North

Northing: 5377807.9 mN

Dip: -90.00

Easting: 379927.0 mE

MAG_Azim: 241.00

RL: 434.5 mRL

Total Depth: 1597.1 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
550															
560															
570															
580															
590															
600															

<ul style="list-style-type: none"> Andesite Andesite Flow Basalt Breccia - Undifferentiated Calcarenite Chert Clay Crystal Tuff Dacite Dacite Breccia Dacite Flow Dacite Lapilli Tuff 	<ul style="list-style-type: none"> Disseminated Sulphides Dolomite Fault Zone Feldspathic (ash) tuff Feldspathic porphyry Felsic Flow Felsic tuff Felsic Volcaniclastic Greywacke Hyaloclastite Breccia Interbedded sandstone/shale Interbedded sandstone/siltsto 	<ul style="list-style-type: none"> Interbedded siltstone/shale Interbedded VSS/VSL/VSM & Intermediate flow Intermediate Volcaniclastic Lapilli Tuff Limestone Lithic Tuff Mafic Dyke Mafic Volcaniclastic Massive sulphide Mudstone No Core Present 	<ul style="list-style-type: none"> Not logged Pyroclastic Breccia Quartz Quartz Carbonate Vein Quartz Feldspar Porphyry Quartz Porphyry Quartzite Rhodacite Rhyolite Rhyolite Breccia Rhyolite Tuff Sandstone 	<ul style="list-style-type: none"> Schist See comments for full descrip Semi-massive Sulphides Shale Siltstone Slate Tuff Siltstone Undifferentiated Black Shale Rhyolite Undifferentiated Felsic Volcanic Undifferentiated Fluvioglacial Sediment Undifferentiated Mafic Intrusive Undifferentiated Tuff 	<ul style="list-style-type: none"> Undifferentiated Volcanic Undifferentiated Volcaniclastic Vein Carbonate Vein quartz Volcanic Breccia Volcanic Conglomerate Volcanic Sandstone Volcanic Siltstone 	<p>Mineralisation</p> <ul style="list-style-type: none"> Background Elevated Anomalous Strongly Anomalous Sub-Grade Low-Grade High-Grade
---	---	---	---	---	--	---

ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 397R-D1



Project: ROS

Rosebery

Prospect: RMN

Rosebery Mine North

Northing: 5377807.9 mN

Dip: -90.00

Easting: 379927.0 mE

MAG_Azim: 241.00

RL: 434.5 mRL

Total Depth: 1597.1 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
600															
610															
620															
630															
640															
650															

▲ Andesite	■ Disseminated Sulphides	▨ Interbedded siltstone/shale	■ Not logged	■ Schist	■ Undifferentiated Volcanic
▲ Andesite Flow	■ Dolomite	▨ Interbedded VSS/VSL/VSM &	▲ Pyroclastic Breccia	■ See comments for full descrip	■ Undifferentiated Volcaniclastic
▲ Basalt	■ Fault Zone	▨ Intermediate flow	■ Quartz	■ Semi-massive Sulphides	■ Vein Carbonate
▲ Breccia - Undifferentiated	■ Feldspathic (ash) tuff	▨ Intermediate Volcaniclastic	■ Quartz Carbonate Vein	■ Shale	■ Vein quartz
▲ Calcarenite	■ Feldspathic porphyry	▨ Lapilli Tuff	■ Quartz Feldspar Porphyry	■ Siltstone	■ Volcanic Breccia
▲ Chert	■ Felsic Flow	▨ Limestone	■ Quartz Porphyry	■ Slate	■ Volcanic Conglomerate
▲ Clay	■ Felsic tuff	▨ Lithic Tuff	■ Quartzite	■ Tuff Siltstone	■ Volcanic Sandstone
▲ Crystal Tuff	■ Felsic Volcaniclastic	▨ Mafic Dyke	■ Rhyodacite	■ Undifferentiated Black Shale	■ Volcanic Siltstone
▲ Dacite	■ Greywacke	▨ Mafic Volcaniclastic	■ Rhyolite	■ Undifferentiated Felsic Volcanic	
▲ Dacite Breccia	■ Hyaloclastite Breccia	▨ Massive sulphide	■ Rhyolite Breccia	■ Undifferentiated Fluvio-glacial Sediment	
▲ Dacite Flow	■ Interbedded sandstone/shale	▨ Mudstone	■ Rhyolite Tuff	■ Undifferentiated Mafic Intrusive	
▲ Dacite Lapilli Tuff	■ Interbedded sandstone/siltsto	▨ No Core Present	■ Sandstone	■ Undifferentiated Tuff	

Mineralisation	
■ Background	
■ Elevated	
■ Anomalous	
■ Strongly Anomalous	
■ Sub-Grade	
■ Low-Grade	
■ High-Grade	

ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 397R-D1



Project: ROS

Rosebery

Prospect: RMN

Rosebery Mine North

Northing: 5377807.9 mN

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MAG_Azim: 241.00

RL: 434.5 mRL

Total Depth: 1597.1 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															
660															
670															
680															
690															
700															

▲ Andesite	■ Disseminated Sulphides	▨ Interbedded siltstone/shale	■ Not logged	■ Schist	■ Undifferentiated Volcanic
▲ Andesite Flow	■ Dolomite	▨ Interbedded VSS/VSL/VSM &	▲ Pyroclastic Breccia	■ See comments for full descrip	■ Undifferentiated Volcaniclastic
▲ Basalt	■ Fault Zone	▨ Intermediate flow	■ Quartz	■ Semi-massive Sulphides	■ Vein Carbonate
▲ Breccia - Undifferentiated	■ Feldspathic (ash) tuff	▨ Intermediate Volcaniclastic	■ Quartz Carbonate Vein	■ Shale	■ Vein quartz
▲ Calcarenite	■ Feldspathic porphyry	▨ Lapilli Tuff	■ Quartz Feldspar Porphyry	■ Slate	■ Volcanic Breccia
▲ Chert	■ Felsic Flow	▨ Limestone	■ Quartz Porphyry	■ Tuff Siltstone	■ Volcanic Conglomerate
▲ Clay	■ Felsic tuff	▨ Lithic Tuff	■ Quartzite	■ Volcanic Sandstone	■ Volcanic Siltstone
▲ Crystal Tuff	■ Felsic Volcaniclastic	▨ Mafic Dyke	■ Rhyodacite	■ Undifferentiated Black Shale	■ Undifferentiated Felsic Volcanic
▲ Dacite	■ Greywacke	▨ Mafic Volcaniclastic	■ Rhyolite	■ Undifferentiated Felsic Volcanic	■ Undifferentiated Fluvio-glacial Sediment
▲ Dacite Breccia	■ Hyaloclastite Breccia	▨ Massive sulphide	■ Rhyolite Breccia	■ Rhyolite Breccia	■ Undifferentiated Mafic Intrusive
▲ Dacite Flow	■ Interbedded sandstone/shale	▨ Mudstone	■ Rhyolite Tuff	■ Sandstone	■ Undifferentiated Tuff
▲ Dacite Lapilli Tuff	■ Interbedded sandstone/siltsto	▨ No Core Present	■ Sandstone		

Mineralisation	
■ Background	■ Elevated
■ Anomalous	■ Strongly Anomalous
■ Sub-Grade	■ Low-Grade
■ High-Grade	

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Hole ID: 397R-D1



Project: ROS

Rosebery

Prospect: RMN

Rosebery Mine North

Northing: 5377807.9 mN
Easting: 379927.0 mE
RL: 434.5 mRL
CoordSys: MGA55 (GDA94)

Dip: -90.00
MAG_Azim: 241.00
Total Depth: 1597.1 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
700															
710															
720															
730															
740															
750															

<ul style="list-style-type: none"> ▲ Andesite ▲ Andesite Flow ▼ Basalt ▲ Breccia - Undifferentiated ▲ Calcarenite ▲ Chert ▲ Clay ▲ Crystal Tuff ▲ Dacite ▲ Dacite Breccia ▲ Dacite Flow ▲ Dacite Lapilli Tuff 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Dolomite ■ Fault Zone ■ Feldspathic (ash) tuff ■ Feldspathic porphyry ■ Felsic Flow ■ Felsic tuff ■ Felsic Volcaniclastic ○ Greywacke ○ Hyaloclastite Breccia ○ Interbedded sandstone/shale ○ Interbedded sandstone/siltsto 	<ul style="list-style-type: none"> ■ Interbedded siltstone/shale ■ Interbedded VSS/VSL/VSM & ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Limestone ■ Lithic Tuff ■ Mafic Dyke ■ Mafic Volcaniclastic ■ Massive sulphide ■ Mudstone ■ No Core Present 	<ul style="list-style-type: none"> ■ Not logged ▲ Pyroclastic Breccia ■ Quartz ■ Quartz Carbonate Vein ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Quartzite ■ Rhodacite ■ Rhyolite ■ Rhyolite Breccia ■ Rhyolite Tuff ■ Sandstone 	<ul style="list-style-type: none"> ■ Schist ■ See comments for full descrip ■ Semi-massive Sulphides ■ Shale ■ Slate ■ Tuff Siltstone ■ Undifferentiated Black Shale ■ Rhyolite ■ Undifferentiated Felsic Volcanic ■ Undifferentiated Fluvioglacial Sediment ■ Undifferentiated Mafic Intrusive ■ Undifferentiated Tuff 	<ul style="list-style-type: none"> ■ Undifferentiated Volcanic ■ Undifferentiated Volcaniclastic ■ Vein Carbonate ■ Vein quartz ■ Volcanic Breccia ■ Volcanic Conglomerate ○ Volcanic Sandstone ○ Volcanic Siltstone 	<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: 397R-D1



Project: ROS

Rosebery

Prospect: RMN

Rosebery Mine North

Northing: 5377807.9 mN
Easting: 379927.0 mE
RL: 434.5 mRL
CoordSys: MGA55 (GDA94)

Dip: -90.00
MAG_Azim: 241.00
Total Depth: 1597.1 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
750															
760	MBV	GRY	VBX	VolClas	brc			Wedging off, full core from 760.3.							
	MBV	GRY	VBX	VolClas	brc		si cb	Pumice bearing volcanoclastic breccia.							
770															
780	DK	GRN	IMK	Intrusv	mas		ch	Green mafic dyke.							
	MBV	GRY	VBX	VolClas	brc		cb si	Fd>Qz, pumice bearing volcanoclastic breccia.							
790															
800															

<ul style="list-style-type: none"> ▲ Andesite ▲ Andesite Flow ▲ Basalt ▲ Breccia - Undifferentiated ▲ Calcarenite ▲ Chert ▲ Clay ▲ Crystal Tuff ▲ Dacite ▲ Dacite Breccia ▲ Dacite Flow ▲ Dacite Lapilli Tuff 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Dolomite ■ Fault Zone ■ Feldspathic (ash) tuff ■ Feldspathic porphyry ■ Felsic Flow ■ Felsic tuff ■ Felsic Volcanoclastic ■ Greywacke ■ Hyaloclastite Breccia ■ Interbedded sandstone/shale ■ Interbedded sandstone/siltsto 	<ul style="list-style-type: none"> ■ Interbedded siltstone/shale ■ Interbedded VSS/VSL/VSM & ■ Intermediate flow ■ Intermediate Volcanoclastic ■ Lapilli Tuff ■ Limestone ■ Lithic Tuff ■ Mafic Dyke ■ Mafic Volcanoclastic ■ Massive sulphide ■ Mudstone ■ No Core Present 	<ul style="list-style-type: none"> ■ Not logged ■ Pyroclastic Breccia ■ Quartz ■ Quartz Carbonate Vein ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Quartzite ■ Rhodacite ■ Rhyolite ■ Rhyolite Breccia ■ Rhyolite Tuff ■ Sandstone 	<ul style="list-style-type: none"> ■ Schist ■ See comments for full descrip ■ Semi-massive Sulphides ■ Shale ■ Siltstone ■ Slate ■ Tuff Siltstone ■ Undifferentiated Black Shale ■ Undifferentiated Felsic Volcanic ■ Undifferentiated Fluvio-glacial Sediment ■ Undifferentiated Mafic Intrusive ■ Undifferentiated Tuff 	<ul style="list-style-type: none"> ■ Undifferentiated Volcanic ■ Undifferentiated Volcanoclastic ■ Vein Carbonate ■ Vein quartz ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone 	<p>Mineralisation</p> <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade ■ Low-Grade ■ High-Grade
---	---	---	---	---	--	--

ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 397R-D1



Project: ROS

Rosebery

Prospect: RMN

Rosebery Mine North

Northing: 5377807.9 mN

Dip: -90.00

Easting: 379927.0 mE

MAG_Azim: 241.00

RL: 434.5 mRL

Total Depth: 1597.1 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
800	MBV	GRY	VBX	VolClas	brc		cb si	Fd>Qz, pumice bearing volcanioclastic breccia.							
810															
820															
830															
840															
850															

Andesite	Disseminated Sulphides	Interbedded siltstone/shale	Not logged	Schist	Undifferentiated Volcanic
Andesite Flow	Dolomite	Interbedded VSS/VSL/VSM &	Pyroclastic Breccia	See comments for full descrip	Undifferentiated Volcanioclastic
Basalt	Fault Zone	Intermediate flow	Quartz	Semi-massive Sulphides	Vein Carbonate
Breccia - Undifferentiated	Feldspathic (ash) tuff	Intermediate Volcanioclastic	Quartz Carbonate Vein	Shale	Vein quartz
Calcarenite	Feldspathic porphyry	Lapilli Tuff	Quartz Feldspar Porphyry	Siltstone	Volcanic Breccia
Chert	Felsic Flow	Limestone	Quartz Porphyry	Slate	Volcanic Conglomerate
Clay	Felsic tuff	Lithic Tuff	Quartzite	Tuff Siltstone	Volcanic Sandstone
Crystal Tuff	Felsic Volcanioclastic	Mafic Dyke	Rhyodacite	Undifferentiated Black Shale	Volcanic Siltstone
Dacite	Greywacke	Mafic Volcanioclastic	Rhyolite	Undifferentiated Felsic Volcanic	Undifferentiated Fluvioglacial Sediment
Dacite Breccia	Hyaloclastite Breccia	Massive sulphide	Rhyolite Breccia	Undifferentiated Mafic Intrusive	Undifferentiated Tuff
Dacite Flow	Interbedded sandstone/shale	Mudstone	Rhyolite Tuff		
Dacite Lapilli Tuff	Interbedded sandstone/siltsto	No Core Present	Sandstone		

Mineralisation	
	Background
	Elevated
	Anomalous
	Strongly Anomalous
	Sub-Grade
	Low-Grade
	High-Grade

ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 397R-D1



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Rosebery

Prospect: RMN

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MAG_Azim: 241.00

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Total Depth: 1597.1 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
850	MBV	GRY	VBX	VolClas	brc	cb si		Fd>Qz, pumice bearing volcanioclastic breccia.							
880	DK	GRN	IMK	Intrusv		ch		Green, mafic dyke.							
885	MBV	GRY	VBX	VolClas	brc	cb ab		Fd>Qz, pumiceous volcanioclastic breccia. Increase in Cb alteration along with selective/patch pink Ab alteration.							
890															

<ul style="list-style-type: none"> ▲ Andesite ▲ Andesite Flow ▲ Basalt ▲ Breccia - Undifferentiated ▲ Calcarenite ▲ Chert ▲ Clay ▲ Crystal Tuff ▲ Dacite ▲ Dacite Breccia ▲ Dacite Flow ▲ Dacite Lapilli Tuff 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Dolomite ■ Fault Zone ■ Feldspathic (ash) tuff ■ Feldspathic porphyry ■ Felsic Flow ■ Felsic tuff ■ Felsic Volcanoclastic ■ Greywacke ■ Hyaloclastite Breccia ■ Interbedded sandstone/shale ■ Interbedded sandstone/siltsto 	<ul style="list-style-type: none"> ■ Interbedded siltstone/shale ■ Interbedded VSS/VSL/VSM & ■ Intermediate flow ■ Intermediate Volcanoclastic ■ Lapilli Tuff ■ Limestone ■ Lithic Tuff ■ Mafic Dyke ■ Mafic Volcanoclastic ■ Massive sulphide ■ Mudstone ■ No Core Present 	<ul style="list-style-type: none"> ■ Not logged ■ Pyroclastic Breccia ■ Quartz ■ Quartz Carbonate Vein ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Quartzite ■ Rhyodacite ■ Rhyolite ■ Rhyolite Breccia ■ Rhyolite Tuff ■ Sandstone 	<ul style="list-style-type: none"> ■ Schist ■ See comments for full descrip ■ Semi-massive Sulphides ■ Shale ■ Siltstone ■ Slate ■ Tuff Siltstone ■ Undifferentiated Black Shale ■ Undifferentiated Felsic Volcanic ■ Undifferentiated Fluvio-glacial Sediment ■ Undifferentiated Mafic Intrusive ■ Undifferentiated Tuff 	<ul style="list-style-type: none"> ■ Undifferentiated Volcanic ■ Undifferentiated Volcanoclastic ■ Vein Carbonate ■ Vein quartz ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone 	<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: 397R-D1



Project: ROS

Rosebery

Prospect: RMN

Rosebery Mine North

Northing: 5377807.9 mN

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Total Depth: 1597.1 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
MBV	GRY	VBX	VolClas	brc		cb ab		Fd>Qz, pumiceous volcanoclastic breccia. Increase in Cb alteration along with selective/patch pink Ab alteration.							
MBV	GRY	VBX	VolClas	brc		ch si		Lithology becomes fine grained at 941m (sharp contact), possibly representing a change to a lava. However, more likely to be a fine top of a new mass flow unit.							

<ul style="list-style-type: none"> Andesite Andesite Flow Basalt Breccia - Undifferentiated Calcarene Chert Clay Crystal Tuff Dacite Dacite Breccia Dacite Flow Dacite Lapilli Tuff 	<ul style="list-style-type: none"> Disseminated Sulphides Dolomite Fault Zone Feldspathic (ash) tuff Feldspathic porphyry Felsic Flow Felsic tuff Felsic Volcanoclastic Greywacke Hyaloclastite Breccia Interbedded sandstone/shale Interbedded sandstone/siltstone 	<ul style="list-style-type: none"> Interbedded siltstone/shale Interbedded VSS/VSL/VSM & Intermediate flow Intermediate Volcanoclastic Lapilli Tuff Limestone Lithic Tuff Mafic Dyke Mafic Volcanoclastic Massive sulphide Mudstone No Core Present 	<ul style="list-style-type: none"> Not logged Pyroclastic Breccia Quartz Quartz Carbonate Vein Quartz Feldspar Porphyry Quartz Porphyry Quartzite Rhyodacite Rhyolite Rhyolite Breccia Rhyolite Tuff Sandstone 	<ul style="list-style-type: none"> Schist See comments for full description Semi-massive Sulphides Shale Siltstone Slate Tuff Siltstone Undifferentiated Black Shale Rhyolite Undifferentiated Felsic Volcanic Undifferentiated Fluvio-glacial Sediment Undifferentiated Mafic Intrusive Undifferentiated Tuff 	<ul style="list-style-type: none"> Undifferentiated Volcanic Undifferentiated Volcanoclastic Vein Carbonate Vein quartz Volcanic Breccia Volcanic Conglomerate Volcanic Sandstone Volcanic Siltstone 	<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
MBV	GRY	VBX	VolClas	brc		ch si		Lithology becomes fine grained at 941m (sharp contact), possibly representing a change to a lava. However, more likely to be a fine top of a new mass flow unit.							
MBV	GRY	VRD	Extrusv	mas	aph	cb si		Coherent dacite to rhyolitic lava. Generally this lava has an aphanitic to a fine grained texture. Some minor intervals are more of an autobreccia, however this is predominantly a coherent rock. Common 2-4mm irregular shaped Cb veining.							

Mineralisation																																																																											
▲ Andesite	■ Disseminated Sulphides	▨ Interbedded siltstone/shale	■ Not logged	■ Schist	■ Undifferentiated Volcanic	■ Background	▲ Andesite Flow	■ Dolomite	▨ Interbedded VSS/VSL/VSM &	▲ Pyroclastic Breccia	■ See comments for full descrip	■ Undifferentiated Volcaniclastic	■ Elevated	▲ Basalt	■ Fault Zone	■ Intermediate flow	■ Quartz	■ Semi-massive Sulphides	■ Vein Carbonate	■ Anomalous	▲ Breccia - Undifferentiated	■ Feldspathic (ash) tuff	■ Intermediate Volcaniclastic	■ Quartz Carbonate Vein	■ Shale	■ Vein quartz	■ Strongly Anomalous	▲ Calcarenite	■ Feldspathic porphyry	■ Lapilli Tuff	■ Quartz Feldspar Porphyry	■ Slate	■ Volcanic Breccia	■ Sub-Grade	▲ Chert	■ Felsic Flow	■ Limestone	■ Quartz Porphyry	■ Tuff Siltstone	■ Volcanic Conglomerate	■ Low-Grade	▲ Clay	■ Felsic tuff	■ Lithic Tuff	■ Quartzite	■ Undifferentiated Black Shale	■ Volcanic Sandstone	■ High-Grade	▲ Crystal Tuff	■ Felsic Volcaniclastic	■ Mafic Dyke	■ Rhyodacite	■ Undifferentiated Felsic Volcanic	■ Volcanic Siltstone	■ Dacite	■ Greywacke	■ Mafic Volcaniclastic	■ Rhyolite	■ Undifferentiated Fluvioglacial Sediment	■ Dacite Breccia	■ Hyaloclastite Breccia	■ Massive sulphide	■ Rhyolite Breccia	■ Undifferentiated Mafic Intrusive	■ Dacite Flow	■ Interbedded sandstone/shale	■ Mudstone	■ Rhyolite Tuff	■ Sandstone	■ Undifferentiated Tuff	■ Dacite Lapilli Tuff	■ Interbedded sandstone/siltsto	■ No Core Present	■ Sandstone	

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Hole ID: 397R-D1



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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
MBV	GRY	VRD	Extrusv	mas	aph	cb	si	Coherent dacite to rhyolitic lava. Generally this lava has an aphanitic to a fine grained texture. Some minor intervals are more of an autobreccia, however this is predominantly a coherent rock. Common 2-4mm irregular shaped Cb veining.							

Mineralisation																																																																												
▲ Andesite	■ Disseminated Sulphides	▨ Interbedded siltstone/shale	■ Not logged	■ Schist	■ Undifferentiated Volcanic	■ Background	▲ Andesite Flow	■ Dolomite	▨ Interbedded VSS/VSL/VSM &	▲ Pyroclastic Breccia	■ See comments for full descrip	■ Undifferentiated Volcaniclastic	■ Elevated	▲ Basalt	■ Fault Zone	■ Intermediate flow	■ Quartz	■ Semi-massive Sulphides	■ Vein Carbonate	■ Anomalous	▲ Breccia - Undifferentiated	■ Feldspathic (ash) tuff	■ Intermediate Volcaniclastic	■ Quartz Carbonate Vein	■ Shale	■ Vein quartz	■ Strongly Anomalous	▲ Calcarenite	■ Feldspathic porphyry	■ Lapilli Tuff	■ Quartz Feldspar Porphyry	■ Siltstone	■ Volcanic Breccia	■ Sub-Grade	▲ Chert	■ Felsic Flow	■ Limestone	■ Quartz Porphyry	■ Slate	■ Volcanic Conglomerate	■ Low-Grade	▲ Clay	■ Felsic tuff	■ Lithic Tuff	■ Quartzite	■ Tuff Siltstone	■ Volcanic Sandstone	■ Undifferentiated Mafic Intrusive	▲ Crystal Tuff	■ Felsic Volcaniclastic	■ Mafic Dyke	■ Rhodacite	■ Undifferentiated Black Shale	■ Volcanic Siltstone	■ High-Grade	▲ Dacite	■ Greywacke	■ Mafic Volcaniclastic	■ Rhyolite	■ Undifferentiated Felsic Volcanic	■ Undifferentiated Fluvioglacial Sediment	▲ Dacite Breccia	■ Hyaloclastite Breccia	■ Massive sulphide	■ Rhyolite Breccia	■ Rhyolite Tuff	■ Undifferentiated Mafic Intrusive	▲ Dacite Flow	■ Interbedded sandstone/shale	■ Mudstone	■ Sandstone	■ Undifferentiated Tuff	▲ Dacite Lapilli Tuff	■ Interbedded sandstone/siltsto	■ No Core Present	■ Sandstone

ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 397R-D1



Project: ROS

Rosebery

Prospect: RMN

Rosebery Mine North

Northing: 5377807.9 mN

Dip: -90.00

Easting: 379927.0 mE

MAG_Azim: 241.00

RL: 434.5 mRL

Total Depth: 1597.1 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
MBV	GRY	VRD	Extrusv	mas	aph	cb	si	Coherent dacite to rhyolitic lava. Generally this lava has an aphanitic to a fine grained texture. Some minor intervals are more of an autobreccia, however this is predominantly a coherent rock. Common 2-4mm irregular shaped Cb veining.							

▲ Andesite	■ Disseminated Sulphides	▨ Interbedded siltstone/shale	■ Not logged	■ Schist	■ Undifferentiated Volcanic
▲ Andesite Flow	■ Dolomite	▨ Interbedded VSS/VSL/VSM &	▲ Pyroclastic Breccia	■ See comments for full descrip	■ Undifferentiated Volcaniclastic
▲ Basalt	■ Fault Zone	▨ Intermediate flow	■ Quartz	■ Semi-massive Sulphides	■ Vein Carbonate
▲ Breccia - Undifferentiated	■ Feldspathic (ash) tuff	▨ Intermediate Volcaniclastic	■ Quartz Carbonate Vein	■ Shale	■ Vein quartz
▲ Calcarenite	■ Feldspathic porphyry	▨ Lapilli Tuff	■ Quartz Feldspar Porphyry	■ Siltstone	■ Volcanic Breccia
▲ Chert	■ Felsic Flow	▨ Limestone	■ Quartz Porphyry	■ Slate	■ Volcanic Conglomerate
■ Clay	■ Felsic tuff	▨ Lithic Tuff	■ Quartzite	■ Tuff Siltstone	■ Volcanic Sandstone
■ Crystal Tuff	■ Felsic Volcaniclastic	▨ Mafic Dyke	■ Rhyodacite	■ Undifferentiated Black Shale	■ Volcanic Siltstone
■ Dacite	■ Greywacke	▨ Mafic Volcaniclastic	■ Rhyolite	■ Undifferentiated Felsic Volcanic	
■ Dacite Breccia	■ Hyaloclastite Breccia	▨ Massive sulphide	■ Rhyolite Breccia	■ Undifferentiated Fluvio-glacial Sediment	
■ Dacite Flow	■ Interbedded sandstone/shale	▨ Mudstone	■ Rhyolite Tuff	■ Undifferentiated Mafic Intrusive	
■ Dacite Lapilli Tuff	■ Interbedded sandstone/siltsto	▨ No Core Present	■ Sandstone	■ Undifferentiated Tuff	

Mineralisation	
■ Background	
■ Elevated	
■ Anomalous	
■ Strongly Anomalous	
■ Sub-Grade	
■ Low-Grade	
■ High-Grade	

ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 397R-D1



Project: ROS

Rosebery

Prospect: RMN

Rosebery Mine North

Northing: 5377807.9 mN
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CoordSys: MGA55 (GDA94)

Dip: -90.00
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Total Depth: 1597.1 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
MBV	GRY-GRN	VRD	Extrusv	mas		ch cb		Moderate - strongly altered rock due to significant dyking in close proximity. This is likely a dacite to rhyolitic lava however, it has undergone hydraulic fracturing/auto-brecciation in some parts.							
									D1395445	0.0	0.0	0.0	0.18		2.8
									D1395446	0.0	0.0	0.0	0.69		2.0
									D1395447	0.0	0.0	0.0	0.12		2.6

<ul style="list-style-type: none"> ▲ Andesite ▲ Andesite Flow ▼ Basalt ▲ Breccia - Undifferentiated ▲ Calcarenite ▲ Chert ▲ Clay ▲ Crystal Tuff ▲ Dacite ▲ Dacite Breccia ▲ Dacite Flow ▲ Dacite Lapilli Tuff 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ○ Dolomite ○ Fault Zone ▲ Feldspathic (ash) tuff ▲ Feldspathic porphyry ▲ Felsic Flow ▲ Felsic tuff ▲ Felsic Volcaniclastic ○ Greywacke ○ Hyaloclastite Breccia ○ Interbedded sandstone/shale ○ Interbedded sandstone/siltsto 	<ul style="list-style-type: none"> ■ Interbedded siltstone/shale ■ Interbedded VSS/VSL/VSM & ■ Intermediate flow ■ Intermediate Volcaniclastic ▲ Lapilli Tuff ▲ Limestone ▲ Lithic Tuff ▲ Mafic Dyke ▲ Mafic Volcaniclastic ▲ Massive sulphide ▲ Mudstone ▲ No Core Present 	<ul style="list-style-type: none"> ▲ Not logged ▲ Pyroclastic Breccia ▲ Quartz ▲ Quartz Carbonate Vein ▲ Quartz Feldspar Porphyry ▲ Quartz Porphyry ▲ Quartzite ▲ Rhodacite ▲ Rhyolite ▲ Rhyolite Breccia ▲ Rhyolite Tuff ▲ Sandstone 	<ul style="list-style-type: none"> ■ Schist ■ See comments for full descrip ■ Semi-massive Sulphides ■ Shale ○ Siltstone ■ Slate ■ Tuff Siltstone ■ Undifferentiated Black Shale ■ Undifferentiated Felsic Volcanic ■ Undifferentiated Fluvio-glacial Sediment ■ Undifferentiated Mafic Intrusive ■ Undifferentiated Tuff 	<ul style="list-style-type: none"> ■ Undifferentiated Volcanic ■ Undifferentiated Volcaniclastic ■ Vein Carbonate ■ Vein quartz ■ Volcanic Breccia ■ Volcanic Conglomerate ○ Volcanic Sandstone ○ Volcanic Siltstone 	<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: 397R-D1



Northing: 5377807.9 mN
Easting: 379927.0 mE
RL: 434.5 mRL
CoordSys: MGA55 (GDA94)

Dip: -90.00
MAG_Azim: 241.00
Total Depth: 1597.1 m
DrillCompany: BLY

Project: ROS
Rosebery
Prospect: RMN
Rosebery Mine North

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
MBV DK	GRY-GRN GRN	VRD IMK	Extrusv Intrusv	mas		ch cb ch cb cb si		Moderate - strongly altered rock due to significant dyking in close proximity. This is likely a dacite to rhyolitic lava however, it has undergone hydraulic fracturing/auto-brecciation in some parts. Green, mafic dyke. Dacitic to rhyolitic breccia/lava. Strong to intense Cb-Cl alteration and strongly silicified.	D1395448	0.0	0.0	0.0	0.02		4.1
MBV	GRY-BUF	VBX	VolClas	brc											
FTZ	BUF-BRN	FTZ	Clastic	ftz		cb se		Mt Black Fault. Intensely Cb-Se altered and silicified rock. Competent core (i.e. no puggy material) except for some fractured rock. As with most holes in this area, this interval does not look overly convincing as a significant fault other than it marks the contact between MBV and the HW sequences.	D1395449	0.0	0.0	0.0	0.26		3.3
HW	BUF	VBX	VolClas	brc	qph	cb		Intensely Cb altered Qz crystal rich volcanoclastic breccia. Common fat Qz crystals up to 8mm.							
HW	BUF-BLK	VBX	VolClas	brc	qph	cb se		Qz crystal rich volcanoclastic breccia containing apparent black shale rip up clast up to 200cm in size.							
									D1395451	0.0	0.0	0.0	0.46		2.5
HW	BUF-GRY	VBX	VolClas	brc	qph	cb		Strongly Cb altered Qz crystal rich volcanoclastic breccia.							
									D1395452	0.0	0.0	0.0	0.25		1.8
HW	GRN-BUF	VBX	VolClas	brc	qph	ch se		Strongly Cl-Se altered, Qz crystal rich polymict volcanoclastic breccia. Alteration has moved from Cb dominant to Cl-Se dominant. Occasional siltstone and rhyolit/dacite clasts. No obvious grading throughout this unit.							
									D1395453	0.0	0.0	0.0	0.12		1.7

Mineralisation									
Andesite	Disseminated Sulphides	Interbedded siltstone/shale	Not logged	Schist	Undifferentiated Volcanic				
Andesite Flow	Dolomite	Interbedded VSS/VSL/VSM &	Pyroclastic Breccia	See comments for full descrip	Undifferentiated Volcanoclastic				
Basalt	Fault Zone	Intermediate flow	Quartz	Semi-massive Sulphides	Vein Carbonate				
Breccia - Undifferentiated	Feldspathic (ash) tuff	Intermediate Volcanoclastic	Quartz Carbonate Vein	Shale	Vein quartz				
Calcarenite	Feldspathic porphyry	Lapilli Tuff	Quartz Feldspar Porphyry	Siltstone	Volcanic Breccia				
Chert	Felsic Flow	Limestone	Quartz Porphyry	Slate	Volcanic Conglomerate				
Clay	Felsic tuff	Lithic Tuff	Quartzite	Tuff Siltstone	Volcanic Sandstone				
Crystal Tuff	Felsic Volcanoclastic	Mafic Dyke	Rhyodacite	Undifferentiated Black Shale	Volcanic Siltstone				
Dacite	Greywacke	Mafic Volcanoclastic	Rhyolite	Undifferentiated Felsic Volcanic					
Dacite Breccia	Hyaloclastite Breccia	Massive sulphide	Rhyolite Breccia	Undifferentiated Fluvio-glacial Sediment					
Dacite Flow	Interbedded sandstone/shale	Mudstone	Rhyolite Tuff	Undifferentiated Mafic Intrusive					
Dacite Lapilli Tuff	Interbedded sandstone/siltsto	No Core Present	Sandstone	Undifferentiated Tuff					

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Rosebery

Prospect: RMN

Rosebery Mine North

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Easting: 379927.0 mE

MAG_Azim: 241.00

RL: 434.5 mRL

Total Depth: 1597.1 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
HW	GRY-GRN	VSS	VolClas	brc	xlt	se ch		Moderately sorted sandstone which become a breccia with shale rip up clasts towards 1307m. Qz >> Fd. Presumably this unit has graded down hole from the above interval.	D1395459	0.0	0.0	0.0	0.07		2.6
BS	GRY-BLK	SSH	VolClas	bed	slt	cb		Finely bedded shale to siltstone. Common Cb 1-4mm veining which rnge from planar to erratic in shape. This is not the typical hangingwall shale unit.	D1395460	0.0	0.0	0.0	0.07		3.6
HW	GRY-GRN	VSS	VolClas	brc	san xlt	ch se		Generally moderately sorted, green-grey, coarse grained volcanoclastic sandstone predominantly compsed of 0.5-2mm Qz crystals.	D1395461	0.0	0.0	0.0	0.11		2.8
									D1395462	0.0	0.0	0.0	0.06		3.3
									D1395463	0.0	0.0	0.0	0.07		2.6
HW	BRN-GRY	VBX	VolClas	brc	pol xlt	se si		Fine siltstone/sandstone which grades into a coarse grained polymict volcanoclastic breccia. Larger clasts become dominant from about 1376m which are composed of siltstone clasts, Qz xtals, fiamme. I have described this as a "gritty" like texture in previous logs.							

Mineralisation									
▲ Andesite	■ Disseminated Sulphides	▨ Interbedded siltstone/shale	■ Not logged	■ Schist	■ Undifferentiated Volcanic				
▲ Andesite Flow	■ Dolomite	▨ Interbedded VSS/VSL/VSM &	▲ Pyroclastic Breccia	■ See comments for full descrip	■ Undifferentiated Volcanoclastic				
▲ Basalt	■ Fault Zone	▨ Intermediate flow	■ Quartz	■ Semi-massive Sulphides	■ Vein Carbonate				
▲ Breccia - Undifferentiated	■ Feldspathic (ash) tuff	▨ Intermediate Volcanoclastic	■ Quartz Carbonate Vein	■ Shale	■ Vein quartz				
▲ Calcarenite	■ Feldspathic porphyry	▨ Lapilli Tuff	■ Quartz Feldspar Porphyry	■ Siltstone	■ Volcanic Breccia				
▲ Chert	■ Felsic Flow	▨ Limestone	■ Quartz Porphyry	■ Slate	■ Volcanic Conglomerate				
▲ Clay	■ Felsic tuff	▨ Lithic Tuff	■ Quartzite	■ Tuff Siltstone	■ Volcanic Sandstone				
▲ Crystal Tuff	■ Felsic Volcanoclastic	▨ Mafic Dyke	■ Rhodacite	■ Undifferentiated Black Shale	■ Volcanic Siltstone				
▲ Dacite	■ Greywacke	▨ Mafic Volcanoclastic	■ Rhyolite	■ Undifferentiated Felsic Volcanic					
▲ Dacite Breccia	■ Hyaloclastite Breccia	▨ Massive sulphide	■ Rhyolite Breccia	■ Undifferentiated Fluvio-glacial Sediment					
▲ Dacite Flow	■ Interbedded sandstone/shale	▨ Mudstone	■ Rhyolite Tuff	■ Undifferentiated Mafic Intrusive					
▲ Dacite Lapilli Tuff	■ Interbedded sandstone/siltsto	▨ No Core Present	■ Sandstone	■ Undifferentiated Tuff					

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Hole ID: 397R-D1



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Rosebery Mine North

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Total Depth: 1597.1 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
HW	BRN-GRY	VBX	VolClas	brc	pol xlt	se si		Fine siltstone/sandstone which grades into a coarse grained polymict volcaniclastic breccia. Larger clasts become dominant from about 1376m which are composed of siltstone clasts, Qz xtals, fiamme. I have described this as a "gritty" like texture in previous logs.	D1395464	0.0	0.0	0.0	0.05		1.8
									D1395465	0.0	0.0	0.0	0.07		1.5
									D1395466	0.0	0.0	0.0	0.07		1.6
									D1395467	0.0	0.0	0.0	0.08		2.1
HW	BRN-GRY	VBX	VolClas	brc	pol xlt	se si		Fine siltstone/sandstone which grades into a xtal rich breccia, similar to above unit however, it does not develop the coarser clast rich base.	D1395468	0.0	0.0	0.0	0.17		1.4

Mineralisation									
▲ Andesite	■ Disseminated Sulphides	▨ Interbedded siltstone/shale	■ Not logged	■ Schist	■ Undifferentiated Volcanic				
▲ Andesite Flow	■ Dolomite	▨ Interbedded VSS/VSL/VSM &	▲ Pyroclastic Breccia	■ See comments for full descrip	■ Undifferentiated Volcaniclastic				
▲ Basalt	■ Fault Zone	▨ Intermediate flow	■ Quartz	■ Semi-massive Sulphides	■ Vein Carbonate				
▲ Breccia - Undifferentiated	■ Feldspathic (ash) tuff	▨ Intermediate Volcaniclastic	■ Quartz Carbonate Vein	■ Shale	■ Vein quartz				
▲ Calcarenite	■ Feldspathic porphyry	▨ Lapilli Tuff	■ Quartz Feldspar Porphyry	■ Siltstone	■ Volcanic Breccia				
▲ Chert	■ Felsic Flow	▨ Limestone	■ Quartz Porphyry	■ Slate	■ Volcanic Conglomerate				
▲ Clay	■ Felsic tuff	▨ Lithic Tuff	■ Quartzite	■ Tuff Siltstone	■ Volcanic Sandstone				
▲ Crystal Tuff	■ Felsic Volcaniclastic	▨ Mafic Dyke	■ Rhyodacite	■ Undifferentiated Black Shale	■ Volcanic Siltstone				
▲ Dacite	■ Greywacke	▨ Mafic Volcaniclastic	■ Rhyolite	■ Undifferentiated Felsic Volcanic					
▲ Dacite Breccia	■ Hyaloclastite Breccia	▨ Massive sulphide	■ Rhyolite Breccia	■ Undifferentiated Fluvio-glacial Sediment					
▲ Dacite Flow	■ Interbedded sandstone/shale	▨ Mudstone	■ Rhyolite Tuff	■ Undifferentiated Mafic Intrusive					
▲ Dacite Lapilli Tuff	■ Interbedded sandstone/siltsto	▨ No Core Present	■ Sandstone	■ Undifferentiated Tuff					

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Hole ID: 397R-D1



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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
1400	HW	BRN-GRY	VBX	VolClas	brc	pol xlt	se si	Fine siltstone/sandstone which grades into a xtal rich breccia, similar to above unit however, it does not develop the coarser clast rich base.	D1395469	0.0	0.0	0.0	0.12		1.9
	HW	BUF-GRN	VSS	VolClas	mso	san	ch se	Moderately sorted volcanoclastic sandstone which develops into a Qz xtal rich breccia from 1413m. Trace mineralisation hosted in Qz-Cb veining (Py+/-Sp).							
								Large white Qz vein with trace Py+/- Ga.							
								Polymict volcanoclastic breccia, presumably the coarser base of the same unit before the above Qz vein. Marked by occasional 3-4cm Qz-Fd rhyolitic clasts.							
1410								Unit fines up at 1418.4 to a siltstone, thus potentially the start of a new flow here.	D1395470	0.0	0.0	0.0	0.03		2.2
								Large white Qz vein, no contained min.							
								Banded volcanoclastic siltstone to sandstone. Se alteration occurs in a foliated/banded texture - possibly creating "pseudofiamme". Probably a thinly interbedded sandstone and siltstone.							
								Occasional 3-5cm white Qz veins.							
	HW	WHT	VQ	VolClas	vq		qt								
	HW	GRY-BRN	VBX	VolClas	brc	qph xlt	py cb si								
	HW	BRN-BLK	VSL	VolClas	lam	fol	cb se	Poorly developed black shales, with only 1 -2m of "classic" Rosebery hangingwall blackshale, with the rest being more of a siltstone. The top contact is disturbed by erratic veining and some minor brecciation.							
	HW	WHT	VQ	VolClas	vq	fol	qt								
1420	HW	BUF-GRY	VSS	VolClas	lam	silt	se si	Sericite altered volcanoclastic siltstone with interbeds of coarser sandy material. The Se alteration occurs in a banded/foliated texture. Possible occasional dark bands of fiamme or are these just intense bands of sericite?	D1395471	0.0	0.0	0.0	0.07		1.4
								Strong to intense, Py-Cb altered volcanoclastic sandstone. Cb occurs as rhodocrosite and it spotted in texture, as well as occurring as erratic veining, pyrite mineralisation ranges from massive patches to disseminated.							
	BS	GRY-BLK	SSH	VolClas	bed	silt	cb py								
	HO	BUF-GRY	VSL	VolClas	itb	fol silt	se py	Pervasively Cb altered crystal rich volcanoclastic sandstone. Difficult to say whether the abundant crystals are feldspars or quartz (or both?). Probably similar to above unit however, not as strong Cb-Py alteration. This does not look like "typical" host rock to this author, however, it falls within the correct position.	D1395472	0.0	0.0	0.0	1.31		2.1
	HOTS	GRY-PNK	VSS	VolClas	pso	san cbn	cb py	Unit transitionally moves into a thinly interbedded ashy/silty unit. This looks more "host-like", however, there are 10-20mm Se altered pumice? Clasts. Trace red Sp which is either vein related or within the thinly bedded siltstone units.							
	HO	BUF-GRY	VSS		brc		cb se	Apparently Feldspar xtal rich (or Qz?) volcanoclastic sandstone, with moderate to strong Cb-Se and trace disseminated Py alteration. Similar unit to 1434.8 - 1436.8m, however, I am more convinced this is a feldspar rich unit (possibly still Qz bearing though...).							
	HOTS	GRY-BUF	VSL		bed	pum sil	se cb	Pervasively Cb altered volcanoclastic sandstone with moderate patchy and disseminated Py mineralisation. Cb occurs as both erratic veining and spotted textures. Trace vein related secondary red Sp +/- Ga.	D1395473	0.0	0.0	0.0	0.18		1.9
	HO	GRY-BUF	VSS		mso	fph	cb se	Similar to above unit, however, decrease in the Py alteration and no Cb veining. Cb alteration is still strong and pervasive though. The lithology still has the "Fd crystal" rich texture.							
	HOTS	BUF-GRY	VSS				cb se								
1450	HOTS	BUF-GRY	VSS				py								

<ul style="list-style-type: none"> ▲ Andesite ▲ Andesite Flow ▲ Basalt ▲ Breccia - Undifferentiated ▲ Calcarenite ▲ Chert ▲ Clay ▲ Crystal Tuff ▲ Dacite ▲ Dacite Breccia ▲ Dacite Flow ▲ Dacite Lapilli Tuff 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Dolomite ■ Fault Zone ■ Feldspathic (ash) tuff ■ Feldspathic porphyry ■ Felsic Flow ■ Felsic tuff ■ Felsic Volcanoclastic ○ Greywacke ○ Hyaloclastite Breccia ○ Interbedded sandstone/shale ○ Interbedded sandstone/siltstone 	<ul style="list-style-type: none"> ■ Interbedded siltstone/shale ■ Interbedded VSS/VSL/VSM & ■ Intermediate flow ■ Intermediate Volcanoclastic ■ Lapilli Tuff ■ Limestone ■ Lithic Tuff ■ Mafic Dyke ■ Mafic Volcanoclastic ■ Massive sulphide ■ Mudstone ■ No Core Present 	<ul style="list-style-type: none"> ■ Not logged ▲ Pyroclastic Breccia ▲ Quartz ▲ Quartz Carbonate Vein ▲ Quartz Feldspar Porphyry ▲ Quartz Porphyry ▲ Quartzite ▲ Rhodocrosite ▲ Rhyolite ▲ Rhyolite Breccia ▲ Rhyolite Tuff ▲ Sandstone 	<ul style="list-style-type: none"> ■ Schist ■ See comments for full descrip ■ Semi-massive Sulphides ■ Shale ■ Siltstone ■ Slate ■ Tuff Siltstone ■ Undifferentiated Black Shale ■ Rhyolite ■ Undifferentiated Felsic Volcanic ■ Undifferentiated Fluvio-glacial Sediment ■ Undifferentiated Mafic Intrusive ■ Undifferentiated Tuff 	<ul style="list-style-type: none"> ■ Undifferentiated Volcanic ■ Undifferentiated Volcanoclastic ■ Vein Carbonate ■ Vein quartz ■ Volcanic Breccia ■ Volcanic Conglomerate ○ Volcanic Sandstone ○ Volcanic Siltstone 	<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 Mine North

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	
1450	HOTS	BUF-GRY	VSS			cb	py	Similar to above unit, however, decrease in the Py alteration and no Cb veining. Cb alteration is still strong and pervasive though. The lithology still has the "Fd crystal" rich texture.	D1395474	0.0	0.0	0.0	1.76		3.6	
						se	sp		D1393401	0.0	0.3	0.0	7.00	0.04	3.6	
						cb	ga		D1393402	0.0	0.5	0.0	5.00	0.03	3.8	
	HODS	BRN-BUF	VSS			se	sp	Z lens position mineralisation. 6-8% Sp across the interval and 2-3% Ga. Sp is typical red/brown colour with silver Ga. Texture of mineralisation is good disseminated to patchy, however, none of the min could be called "semi-massive".	D1393403	0.3	0.7	0.0	21.00	0.07	2.9	
					cb	ga			D1393404	1.6	4.3	0.0	101.00	0.50	1.9	
									D1393405	0.1	0.4	0.0	10.00	0.09	1.4	
									D1393406	1.3	4.4	0.0	97.00	0.95	1.4	
	HO	GRY-BUF	VSS			cb	py			D1393408	0.1	0.5	0.0	13.00	0.04	2.4
						se	py			D1393409	4.5	8.6	0.2	354.00	2.47	1.6
								Pervasively Cb altered Fd? Xtal rich unit with trace disseminated Py and no Sp/Ga min. Similar to above Cb altered units.	D1393410	0.0	0.3	0.0	5.00	0.03	2.2	
									D1393411	0.0	0.3	0.0	4.00	0.01	2.5	
									D1393412	0.0	0.3	0.0	5.00	0.01	3.1	
									D1393413	0.0	0.4	0.0	7.00	0.02	2.4	
1460	HOTS	GRY-BUF	VSL		bed	se	sp	Se-Py altered, thinly bedded volcanoclastic siltstone with trace red and banded Sp mineralisation. This unit is what I would call "typical" host - with the fine siltstone thin interbeds.	D1393414	0.2	0.8	0.0	8.00	0.15	3.4	
					sil	si	py			D1395475	0.1	0.2	0.0	10.05		2.6
										D1393415	0.4	3.2	0.0	10.00	0.08	3.6
										D1393416	0.8	1.3	0.0	8.00	0.06	2.6
										D1393417	0.8	1.0	0.0	7.00	0.02	1.9
										D1393418	0.0	0.3	0.0	2.00	0.01	2.1
									D1393419	0.0	0.3	0.0	2.00	-0.01	2.1	
	TZ	BUF-GRY	VSS		bed	cb	ga	Transitional unit - fine volcanoclastic siltstone which conformably grades into a feldspar crystal rich breccia.								
						si	sp									
1470	FW	GRY	VSS		brc	cb	se	Feldspar crystal rich volcanoclastic sandstone to breccia with occasional dark bands of fiamme. Predominantly Cb altered.	D1395476	0.1	0.2	0.0	2.03		2.1	
					fia	fph	se									
1480	FW	GRY-GRN	VSS		brc	cb	se	Strongly Se-Cl altered feldspar crystal rich volcanoclastic sandstone to breccia. Unit pulled out due to the apparent increase in Se-Cl alteration. Se has the wispy texture wrapping around Fd xtals.	D1395477	0.0	0.0	0.0	0.11		1.6	
					fia	fph	se									
1490	FW	GRY-BUF	VSS		brc	cb	se	Moderate to strongly Se-Cl altered, feldspar xtal rich volcanoclastic sandstone to breccia with occasional fiamme. Patchy Qz-Cb veining.	D1395478	0.0	0.0	0.0	0.17		1.3	
					fia	fph	se									
1500																

<ul style="list-style-type: none"> ▲ Andesite ▲ Andesite Flow ▲ Basalt ▲ Breccia - Undifferentiated ▲ Calcarenite ▲ Clay ▲ Crystal Tuff ▲ Dacite ▲ Dacite Breccia ▲ Dacite Flow ▲ Dacite Lapilli Tuff 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Dolomite ■ Fault Zone ■ Feldspathic (ash) tuff ■ Feldspathic porphyry ■ Felsic Flow ■ Felsic tuff ■ Felsic Volcanoclastic ○ Greywacke ○ Hyaloclastite Breccia ○ Interbedded sandstone/shale ○ Interbedded sandstone/siltsto 	<ul style="list-style-type: none"> ■ Interbedded siltstone/shale ■ Interbedded VSS/VSL/VSM & ■ Intermediate flow ■ Intermediate Volcanoclastic ■ Lapilli Tuff ■ Limestone ■ Lithic Tuff ■ Mafic Dyke ■ Mafic Volcanoclastic ■ Massive sulphide ■ Mudstone ■ No Core Present 	<ul style="list-style-type: none"> ■ Not logged ▲ Pyroclastic Breccia ■ Quartz ■ Quartz Carbonate Vein ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Quartzite ■ Rhodacite ■ Rhyolite ■ Rhyolite Breccia ■ Rhyolite Tuff ■ Sandstone 	<ul style="list-style-type: none"> ■ Schist ■ See comments for full descrip ■ Semi-massive Sulphides ■ Shale ■ Siltstone ■ Slate ■ Tuff Siltstone ■ Undifferentiated Black Shale ■ Undifferentiated Felsic Volcanic ■ Undifferentiated Fluvio-glacial Sediment ■ Undifferentiated Mafic Intrusive ■ Undifferentiated Tuff 	<ul style="list-style-type: none"> ■ Undifferentiated Volcanic ■ Undifferentiated Volcanoclastic ■ Vein Carbonate ■ Vein quartz ■ Volcanic Breccia ■ Volcanic Conglomerate ○ Volcanic Sandstone ○ Volcanic Siltstone 	<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: 397R-D1



Project: ROS

Rosebery

Prospect: RMN

Rosebery Mine North

Northing: 5377807.9 mN

Dip: -90.00

Easting: 379927.0 mE

MAG_Azim: 241.00

RL: 434.5 mRL

Total Depth: 1597.1 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
FW	GRY-BUF	VSS		brc	fia fph	se ch		Moderate to strongly Se-Cl altered, feldspar xtal rich volcaniclastic sandstone to breccia with occasional fiamme. Patchy Qz-Cb veining.							
									D1395480	0.0	0.0	0.0	0.05		1.1
HO	GRY-GRN	VSL		bed	sil	se si	py	Moderate to strong Se altered thinly bedded volcaniclastic siltstone which has a host-like appearance. However, no "second" black shale unit occurs above that can be used as a definitive marker.							
TZ	GRY	VSS		brc	san fph	se si		Footwall looking rock, however, more transitional as it has some more sandy units within, and only rare fiamme textures.							
									D1395481	0.0	0.0	0.0	0.05		1.8
									D1395482	0.0	0.0	0.0	0.24		1.1
FW	GRY-BUF	VSS		brc	fph fia	se si		Feldspar xtal rich volcaniclastic sandstone/breccia with occasional dark bands of fiamme. This interval however contains occasional finer "interbeds" of more ash/siltstone material indicating more than one flow within the interval.							
									D1395483	0.0	0.0	0.0	0.01		1.3

<ul style="list-style-type: none"> ▲ Andesite ▲ Andesite Flow ▲ Basalt ▲ Breccia - Undifferentiated ▲ Calcarenite ▲ Chert ▲ Clay ▲ Crystal Tuff ▲ Dacite ▲ Dacite Breccia ▲ Dacite Flow ▲ Dacite Lapilli Tuff 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Dolomite ■ Fault Zone ■ Feldspathic (ash) tuff ■ Feldspathic porphyry ■ Felsic Flow ■ Felsic tuff ■ Felsic Volcaniclastic ■ Greywacke ■ Hyaloclastite Breccia ■ Interbedded sandstone/shale ■ Interbedded sandstone/siltsto 	<ul style="list-style-type: none"> ■ Interbedded siltstone/shale ■ Interbedded VSS/VSL/VSM & ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Limestone ■ Lithic Tuff ■ Mafic Dyke ■ Mafic Volcaniclastic ■ Massive sulphide ■ Mudstone ■ No Core Present 	<ul style="list-style-type: none"> ■ Not logged ■ Pyroclastic Breccia ■ Quartz ■ Quartz Carbonate Vein ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Quartzite ■ Rhodacite ■ Rhyolite ■ Rhyolite Breccia ■ Rhyolite Tuff ■ Sandstone 	<ul style="list-style-type: none"> ■ Schist ■ See comments for full descrip ■ Semi-massive Sulphides ■ Shale ■ Siltstone ■ Slate ■ Tuff Siltstone ■ Undifferentiated Black Shale ■ Undifferentiated Felsic Volcanic ■ Undifferentiated Fluvio-glacial Sediment ■ Undifferentiated Mafic Intrusive ■ Undifferentiated Tuff 	<ul style="list-style-type: none"> ■ Undifferentiated Volcanic ■ Undifferentiated Volcaniclastic ■ Vein Carbonate ■ Vein quartz ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone 	<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: 397R-D1



Project: ROS

Rosebery

Prospect: RMN

Rosebery Mine North

Northing: 5377807.9 mN
Easting: 379927.0 mE
RL: 434.5 mRL
CoordSys: MGA55 (GDA94)

Dip: -90.00
MAG_Azim: 241.00
Total Depth: 1597.1 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
FW	GRY-BUF	VSS		brc	fph fia	se si		Feldspar xtal rich volcaniclastic sandstone/breccia with occasional dark bands of fiamme. This interval however contains occasional finer "interbeds" of more ashy/siltstone material indicating more than one flow within the interval.	D1395484	0.0	0.0	0.0	0.06		1.2
									D1395485	0.0	0.0	0.0	0.25		1.6
F HW	BRN BRN	FTZ VBX		ftz brc		cb se		Rosebery Fault. Composed mainly of broken core with no puggy material. Some dark coloured rock in the main zone of the fault which is presumed to be tourmaline.							
HW	BUF-GRY	VBX		brc	pol	cb se se cb	py	Strongly Cb-Se altered un-differentiated volcaniclastic breccia. Pervasively Se-Py altered polymict volcaniclastic breccia. Generally matrix supported with clasts composition of; 5-40mm angular mudstone/siltstone clasts, rare 30-50mm felsic clasts and <1mm Qz crystals. No obvious grading and patchy Py alteration throughout.							
									D1395486	0.0	0.0	0.0	0.15		1.8
HW	BUF-GRY	VSS		mso		se cb	py	Se-Py altered xtal rich volcaniclastic sandstone. Patchy Py alteration.							
									D1395487	0.0	0.0	0.0	0.20		2.0
HW	BUF-GRY	VSL		bed	sil	se	py	Volcaniclastic siltstone to sandstone which develops into a breccia towards EOH where there are siltstone clasts being stretched and elongated.							
									D1395488	0.0	0.0	0.0	0.65		1.6

<ul style="list-style-type: none"> ▲ Andesite ▲ Andesite Flow ▲ Basalt ▲ Breccia - Undifferentiated ▲ Calcarenite ▲ Chert ▲ Clay ▲ Crystal Tuff ▲ Dacite ▲ Dacite Breccia ▲ Dacite Flow ▲ Dacite Lapilli Tuff 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Dolomite ■ Fault Zone ■ Feldspathic (ash) tuff ■ Feldspathic porphyry ■ Felsic Flow ■ Felsic tuff ■ Felsic Volcaniclastic ■ Greywacke ■ Hyaloclastite Breccia ■ Interbedded sandstone/shale ■ Interbedded sandstone/siltsto 	<ul style="list-style-type: none"> ■ Interbedded siltstone/shale ■ Interbedded VSS/VSL/VSM & ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Limestone ■ Lithic Tuff ■ Mafic Dyke ■ Mafic Volcaniclastic ■ Massive sulphide ■ Mudstone ■ No Core Present 	<ul style="list-style-type: none"> ■ Not logged ■ Pyroclastic Breccia ■ Quartz ■ Quartz Carbonate Vein ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Quartzite ■ Rhyodacite ■ Rhyolite ■ Rhyolite Breccia ■ Rhyolite Tuff ■ Sandstone 	<ul style="list-style-type: none"> ■ Schist ■ See comments for full descrip ■ Semi-massive Sulphides ■ Shale ■ Siltstone ■ Slate ■ Tuff Siltstone ■ Undifferentiated Black Shale ■ Undifferentiated Felsic Volcanic ■ Undifferentiated Fluvio-glacial Sediment ■ Undifferentiated Mafic Intrusive ■ Undifferentiated Tuff 	<ul style="list-style-type: none"> ■ Undifferentiated Volcanic ■ Undifferentiated Volcaniclastic ■ Vein Carbonate ■ Vein quartz ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Volcanic Sandstone ■ Volcanic Siltstone 	<p>Mineralisation</p> <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade ■ Low-Grade ■ High-Grade
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