

ROSEBERY LITHOLOGY_VMS LOG

Hole ID: 413R-D2



Project: ROS

Rosebery

Prospect: NRL

North Lake Rosebery

Northing: 5378392.8 mN

Dip: -87.00

Easting: 379741.8 mE

MAG_Azim: 66.00

RL: 386.5 mRL

Total Depth: 646.0 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															

▲ Breccia - Undifferentiated	■ Felsic Flow	■ Disseminated Sulphides	■ Interbedded sandstone/siltstone	■ Intermediate flow	■ Undifferentiated Volcaniclastic	■ Background
▲ Fault Zone	■ Feldspathic porphyry	■ Quartz	■ Andesite	■ Intermediate Volcaniclastic	■ Volcanic Breccia	■ Elevated
▲ Hyaloclastite Breccia	■ Mafic Dyke	■ Limestone	■ Crystal Tuff	■ Lapilli Tuff	■ Volcanic Conglomerate	■ Anomalous
▲ Pyroclastic Breccia	■ Quartz Feldspar Porphyry	■ Dolomite	■ Dacite	■ Lithic Tuff	■ Volcanic Sandstone	■ Strongly Anomalous
▲ Vein quartz	■ Quartz Porphyry	■ Shale	■ Dacite Lapilli Tuff	■ Rhyolite	■ Volcanic Siltstone	■ Sub-Grade
▲ Vein Carbonate	■ Schist	■ Siltstone	■ Felsic tuff	■ Rhyolite Breccia	■ Not logged	
▲ Quartz Carbonate Vein	■ Slate	■ Gneiss	■ Felsic Volcaniclastic	■ Tuff Siltstone		

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50															
60															
70															
80															
90															
100															

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▲ 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	■ Gneiss	■ Felsic Volcaniclastic	■ Tuff Siltstone	

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

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100															
110															
120															
130															
140															
150															

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▲ Fault Zone	■ Feldspathic porphyry	■ Quartz	■ Andesite	■ Intermediate Volcaniclastic	■ Volcanic Breccia	■ Elevated
▲ Hyaloclastite Breccia	■ Mafic Dyke	■ Limestone	■ Crystal Tuff	■ Lapilli Tuff	■ Volcanic Conglomerate	■ Anomalous
▲ Pyroclastic Breccia	■ Quartz Feldspar Porphyry	■ Dolomite	■ Dacite	■ Lithic Tuff	■ Volcanic Sandstone	■ Strongly Anomalous
▲ Vein quartz	■ Quartz Porphyry	■ Shale	■ Dacite Lapilli Tuff	■ Rhyolite	■ Volcanic Siltstone	■ Sub-Grade
▲ Vein Carbonate	■ Schist	■ Siltstone	■ Felsic tuff	■ Rhyolite Breccia	■ Not logged	
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150															
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 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Chert 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<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
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200															
210															
220															
230															
240															
250															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⚡ Fault Zone ⚡ Hyaloclastite Breccia ▲ Pyroclastic Breccia ⚡ Vein quartz ⚡ Vein Carbonate ⚡ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Gneiss 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<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
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250															
260															
270															
280															
290															
300															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ■ Fault Zone ■ Hyaloclastite Breccia ▲ Pyroclastic Breccia ■ Vein quartz ■ Vein Carbonate ■ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Gneiss 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic Tuff 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<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
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300															
310															
320															
330															
340															
350															

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▲ Hyaloclastite Breccia	■ Mafic Dyke	■ Limestone	■ Crystal Tuff	■ Lapilli Tuff	■ Volcanic Conglomerate	■ Anomalous
▲ Pyroclastic Breccia	■ Quartz Feldspar Porphyry	■ Dolomite	■ Dacite	■ Lithic Tuff	■ Volcanic Sandstone	■ Strongly Anomalous
▲ Vein quartz	■ Quartz Porphyry	■ Shale	■ Dacite Lapilli Tuff	■ Rhyolite	■ Volcanic Siltstone	■ Sub-Grade
▲ Vein Carbonate	■ Schist	■ Siltstone	■ Felsic tuff	■ Rhyolite Breccia	■ Not logged	
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350															
360															
370															
380															
390															
400															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ■ Fault Zone ■ Hyaloclastite Breccia ▲ Pyroclastic Breccia ■ Vein quartz ■ Vein Carbonate ■ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Gneiss 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<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
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400															
410															
420															
430															
440															
450															

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▲ Fault Zone	■ Feldspathic porphyry	■ Quartz	■ Andesite	■ Intermediate Volcaniclastic	■ Volcanic Breccia	■ Elevated
▲ Hyaloclastite Breccia	■ Mafic Dyke	■ Limestone	■ Crystal Tuff	■ Lapilli Tuff	■ Volcanic Conglomerate	■ Anomalous
▲ Pyroclastic Breccia	■ Quartz Feldspar Porphyry	■ Dolomite	■ Dacite	■ Lithic Tuff	■ Volcanic Sandstone	■ Strongly Anomalous
▲ Vein quartz	■ Quartz Porphyry	■ Shale	■ Dacite Lapilli Tuff	■ Rhyolite	■ Volcanic Siltstone	■ Sub-Grade
▲ Vein Carbonate	■ Schist	■ Siltstone	■ Felsic tuff	■ Rhyolite Breccia	■ Not logged	
▲ Quartz Carbonate Vein	■ Slate	■ Gneiss	■ Felsic Volcaniclastic	■ Tuff Siltstone		

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450															
460															
470															
480															
490															
500															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ■ Fault Zone ■ Hyaloclastite Breccia ▲ Pyroclastic Breccia ■ Vein quartz ■ Vein Carbonate ■ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Gneiss 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<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
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500															
510															
520															
530															
540															
550															

▲ Breccia - Undifferentiated	■ Felsic Flow	■ Disseminated Sulphides	■ Interbedded sandstone/siltstone	■ Intermediate flow	■ Undifferentiated Volcaniclastic	Mineralisation ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
▲ 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	■ Gneiss	■ Felsic Volcaniclastic	■ Tuff Siltstone		

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550															
MBV	GRY-BUF	VSL	X	VolClas	mas			Wedging off, full core from 554.6							
MBV	GRY	VSL	X	VolClas	mas			Fine grained and massive siliceous volcaniclastic siltstone (or aphanitic dacite?). Again we are seeing the interesting rounded/nodule like Cb alteration. Contact at 562.3m interesting, with bits of this unit broken up and contained in the lower unit.							
560															
MBV	GRY	VSS	O	VolClas	brc	fph	ch cb	Coarse grained Fd crystal rich volcaniclastic sandstone. Again, this is arguably a lava but upper contact would suggest a clastic origin.							
570															
MBV	GRY	VBX	V	VolClas	brc	fph	si cb	Generally volcaniclastic breccia with smaller intervals of fine siltstone material and occasional cross cutting dykes.							
580															
590															
600															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⚡ Fault Zone ⊖ Hyaloclastic Breccia ▲ Pyroclastic Breccia ⚡ Vein quartz ⚡ Vein Carbonate ⚡ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Siltstone ■ Gneiss 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Gneiss 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Giltstone 	<ul style="list-style-type: none"> ■ Undifferentiated Volcaniclastic ■ Volcanic Breccia ■ Volcanic Conglomerate ■ Lapilli Tuff ■ Volcanic Sandstone ■ Volcanic Siltstone ■ Not logged 	<p>Mineralisation</p> <ul style="list-style-type: none"> ■ Background ■ Elevated ■ Anomalous ■ Strongly Anomalous ■ Sub-Grade
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600	MBV	GRY	VBX	VolClas	brc	fph	si cb	Generally volcaniclastic breccia with smaller intervals of fine siltstone material and occasional cross cutting dykes.							
610															
620															
630															
640															
650															

<ul style="list-style-type: none"> ▲ Breccia - Undifferentiated ⊖ Fault Zone ⊖ Hyaloclastic Breccia ▲ Pyroclastic Breccia ⊖ Vein quartz ⊖ Vein Carbonate ⊖ Quartz Carbonate Vein 	<ul style="list-style-type: none"> ■ Felsic Flow ■ Feldspathic porphyry ■ Mafic Dyke ■ Quartz Feldspar Porphyry ■ Quartz Porphyry ■ Schist ■ Siltstone ■ Slate 	<ul style="list-style-type: none"> ■ Disseminated Sulphides ■ Quartz ■ Limestone ■ Dolomite ■ Shale ■ Siltstone ■ Gneiss 	<ul style="list-style-type: none"> ■ Interbedded sandstone/siltstone ■ Andesite ■ Crystal Tuff ■ Dacite ■ Dacite Lapilli Tuff ■ Felsic tuff ■ Felsic Volcaniclastic 	<ul style="list-style-type: none"> ■ Intermediate flow ■ Intermediate Volcaniclastic ■ Lapilli Tuff ■ Lithic Tuff ■ Rhyolite ■ Rhyolite Breccia ■ Tuff Siltstone 	<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
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