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The Dominion and Federation discoveries at Nymagee, NSW: An evolving exploration story

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- Location and geological setting
- Previous exploration in the Dominion/Federation area
- Recent work by Aurelia Metals:
 - The discovery at the Dominion prospect (2018)
 - The discovery at the Federation prospect (2019)
- Geological and geophysical observations
- Further work and conclusions



Location

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Eastern Cobar Basin - Schematic





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Nymagee Region - Geology

- Mineralisation in the region hosted in folded sandstones and siltstones
- The Dominion and Federation prospects occur close to the contact with the Erimeran granite to the south.
- Low-middle greenschist facies metamorphism with moderately welldeveloped, near vertical cleavage
- Cleavage development in the Dominion and Federation area is subtler than at Hera and Nymagee
- Mineralisation dominantly structurally controlled, minor bedding control also locally evident



Simplified geology of the Nymagee region showing the location of the Federation and Dominion Prospects



Discovery History – Dominion and Federation



Exploration summary for the Dominion and Federation areas

Company	Year	Milestone				
Dominion Mining	1993	Anomalous Pb and Au identified in regional lag sampling in the area				
Pasminco	2000	Discovery of the Hera Au-Pb-Zn-Au deposit 10 kilometres to the north				
Triako Resources	2005-2006	Soil and rock chip geochemistry, limited IP survey completed at Dominion				
YTC Resources	2010	Identification of a coherent north-trending Pb-Zn-Au-As-Sb anomaly in soil and rock chips at Dominion				
	2010-2012	More than 1,900 metres of RC and diamond drilling completed at Dominion over a 500 metre strike, with minor sub economic sulphides intercepted				
	2012	Fixed loop EM at Dominion and Federation - no bedrock conductors detected				
	2013	Four RC holes drilled at Federation, 1 km NW of Dominion, with minor sub-economic mineralisation encountered				
Aurelia Metals (formerly YTC Resources)	July 2018	Discovery of auriferous gossan at Dominion during reconnaissance by Aurelia geologists				
	September 2018	Broad zones of oxide and transitional base metal mineralisation discovered in RC drilling at Dominion				
	February 2019	A 25.7 line-km pole-dipole IP survey is completed in the area				
	February/March 2019	Follow up drilling identifies first significant sulphide Cu and Pb+Zn mineralisation at Dominion				
	April 2019	Discovery of high grade lead-zinc-(gold) mineralisation at Federation				
	June 2019	High grade polymetallic mineralisation extended to at least 500 metres below surface at Federation				



The Dominion Discovery





View looking northeast (uphill) at the Dominion discovery site. Gold-bearing gossan was identified adjacent to the termite mound on the right of the picture.

- Dominion occurs on the southwest slope of a locally prominent ENE-WSW trending topographic rise
- No known historic workings
- Small gossan outcrop with visible gold discovered during reconnaissance by AMI geologists
- Gossan also identified to the north by YTC although not auriferous
- Area initially hand-excavated to access rock chip samples and to define orientation
- A general NNE strike and steep easterly dip was indicated in the excavation
- Trend crosscuts ENE-WNW bedding



The Dominion Discovery





View looking north of the hand-excavated auriferous gossan at Dominion (left), with in situ sampling locations shown (right).



The Dominion Discovery





Visible gold in cut gossan samples from the Dominion prospect



Dominion Gossan Sampling



Sample ID	Sample Wt	Average Au*	Pb	Zn	Cu	Ag	Sample Type	Category Average
	kg	g/t	%	%	%	g/t		
DM01704	1.52	682.0	1.8	0.8	0.8	103.0	<i>Insitu</i> Gossan	<i>Insitu</i> gossan average = 85.9g/t, 2.1% Pb, 0.7% Zn, 0.8% Cu & 13g/t Ag
DM01705	1.70	158.0	1.7	0.7	0.7	12.6		
DM01706	1.00	2.2	2.6	0.7	0.7	3.6		
DM01707	1.86	2.9	1.8	0.7	0.6	2.0		
DM01708	2.08	4.0	1.6	0.7	0.8	1.5		
DM01709	2.78	3.3	1.1	0.7	1.0	1.9		
DM01710	2.66	2.5	4.0	0.6	0.7	0.8		
DM01711	2.96	1.4	1.2	0.8	0.8	1.0		
DM01712	2.20	1.9	3.8	0.6	0.8	1.1		
DM01713	2.40	0.7	0.9	0.6	0.7	0.3		
DM01715	2.88	1.9	1.1	0.7	0.9	1.2	Loose Gossan Samples	Loose gossan average = 21.7g/t, 2.2% Pb, 0.7% Zn, 0.8% Cu & 3g/t Ag
DM01716	2.30	3.3	0.8	0.7	1.0	1.6		
DM01717	2.34	76.2	2.8	0.7	0.7	7.8		
DM01718	2.64	5.4	3.3	0.6	0.7	1.7		
DM01719	3.82	6.4	2.0	0.7	0.6	2.8		
DM01720	2.20	35.2	2.4	0.8	0.7	3.2		
DM01721	3.70	35.1	1.7	0.6	0.9	3.3		
DM01722	3.38	10.0	3.3	0.7	0.7	2.3		
DM01714	0.52	0.21	0.1	0.0	0.0	<0.5	Termite Mound	Termite mound average = 0.21g/t Au

*Each sample assayed in triplicate for Au



The Dominion Discovery – Existing Drilling







Dominion Drilling – Conceptual Approach







The Dominion Discovery – RC Drilling





Ferruginous siltstone and mineralised limonitic gossan intercepted in the first Aurelia RC hole at the Dominion prospect.

- Initial drilling program of 15 RC holes
- Gossan intercepted in first RC hole, collared 16m from outcrop
- Mineralised zone more extensive and complex than envisaged
- Host is variably ferruginised and silicified siltstones and sandstones with locally intense foliation
- Mineralisation mostly supergene or transitional in nature
- Dominant mineralogy includes malachite, azurite, cuprite, cerussite, pyromorphite, smithsonite and secondary copper sulphides



The Dominion Discovery – RC Drilling





Broad zones of mineralisation intercepted at Dominion, including:

97m at 1.0% Cu & 2.4% Pb+Zn from 28m 54m at 0.9% Cu & 0.9% Pb+Zn from 29m 57m at 0.6% Cu & 0.8% Pb+Zn from 53m 33m at 0.3% Cu & 1.5% Pb+Zn from 36m 11m at 0.8% Cu & 18.7% Pb+Zn from 60m 5m at 4.7% Cu & 0.5% Pb+Zn from 41m

Original YTC drilling missed high grade mineralisation by less than 50 metres!

Section showing the extensive nature of the supergene mineralised zones in the initial drilling at Dominion.



The Dominion Discovery – 2019 drilling

6436300N



Follow-up diamond and RC drilling conducted at Dominion in early 2019 35mV IP chargeability shell at 100m depth Significant sulphide mineralisation 35mV IP chargeability 6436200N shell at 100m depth intercepted for first time, including: 18m at 1.5% Cu from 88m, includes 5m at **2.8% Cu** from 101m 5m at **2.2% Cu** from 241m DMDD003 6m at 3.4% Pb+Zn from 140m 6436100N Complex metal zonation evident Remains open in multiple directions, , OMODOOA 100 metres including at depth Recent AMI drilling (2019) High grade gold not encountered at Previous drilling (2011-2018) depth (to date) 6436000N IP chargeability anomaly (100m)

Plan view of the Dominion area showing the 3D IP chargeability shell at 100 metres depth. Down hole Cu assays > 0.5% are shown as red bars, Pb+Zn assays > 1.0% are shown as purple bars.



The Dominion Discovery – pXRF Soil Sampling





Lead (Pb) in soils by portable XRF in the Dominion area.



The Dominion Discovery – pXRF Soil Sampling





Copper (Cu) in soils by portable XRF in the Dominion area.



Dominion and Federation – Induced Polarisation





Stations for the 25.7 line-kilometre pole-dipole induced polarisation (IP) geophysical survey over the Dominion and Federation areas.



Dominion and Federation – Induced Polarisation





Plan showing drilling completed by Aurelia Metals (AMI) since September 2018 in the Dominion and Federation areas, along with historic drilling by YTC Resources. Modelled 3D IP chargeability anomalies (35mV) identified in the 2019 survey are also shown.





- Federation prospect located 1km northwest of Dominion
- Strong coincident chargeability and conductivity IP features modelled
- Good correlation with Pb and Au soil anomalies
- Initial program of eight RC holes commenced in March 2019
- Six of the holes returned high grade mineralisation, including:

11m at 11.0% Pb+Zn, 1.5g/t Au, incl. 5m at **22.6% Pb+Zn**, **3.1g/t Au**

14m at 10.1% Pb+Zn, 0.2g/t Au, incl. 6m at **21.1% Pb+Zn**, 0.3g/t Au

16m at 7.5% Pb+Zn, 0.3g/t Au, incl. 5m at **16.9% Pb+Zn**, 0.6g/t Au

4m at 23.4% Pb+Zn, 0.3g/t Au















Composite photograph showing a zone in diamond hole FRCD019 with semi-massive and massive zinc-lead mineralisation (brown).





Massive zinc-dominant sulphides intercepted in Federation hole FRCD018.

Low-iron sphalerite breccia intercepted in Federation hole FRCD015W1.



Federation – Alteration and Mineralisation





Schematic cross section of the Federation prospect (looking northeast) showing interpreted zones of alteration, bedding and mineralisation

- Currently defined over a NE-SW strike of more than 300 metres, extends more than 550 metres below surface
- Mineralisation closely associated with a core of early pervasive silicification
- Later overprint by Mg-rich chlorite with pervasive silica, sericite & pyrrhotite (±calcite) in foowall
- Base metal mineralisation post-dates Mg-rich chlorite
- Strongest mineralisation is fracture fill, minor replacement parallel to bedding observed
- Mineralisation possibly associated with axial plane of localised antiform.
- Relationship of base metal and gold mineralisation remains unclear



Gravity – Nymagee Region





- Strong positive gravity anomalies at Hera, Nymagee, Dominion and Federation
- Probably related to broad alteration systems around mineralisation
- Follow-up gravity survey underway north of Federation

Federation - Geophysics

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²⁸ Further Work





Diamond drilling at the Federation Prospect, June 2019

- Ongoing diamond and RC drilling at Federation – resource potential?
- Follow-up diamond and RC at Dominion
- Initial RC testing of the Dominion NE chargeability feature
- Expansion of the IP coverage north and east of Dominion/Federation
- Infill ground gravity survey north of Federation
- Additional pXRF soil geochemistry at selected targets



²⁹ Conclusions



- Serendipity plays an important role in exploration the chance find of visible gold in a very minor outcrop reinvigorated our interest in the area
- *Field reconnaissance is still highly useful* it is still possible to find outcropping mineralisation on mature exploration ground
- *Find a hill and drill the western side* as with multiple other deposits in the Cobar Basin, topographic highs appear to be significant (CSA, Peak, New Occidental, Hera, Nymagee)
- Use scissor holes where possible YTC's near miss at Dominion indicates the value of drilling from multiple directions when the system is not well understood
- Where there's smoke, there's often fire At both Federation and Dominion, the presence of low grade mineralisation and alteration were indicative of vicinity to nearby high grade



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Coarse-grained galena, low-Fe sphalerite and minor chalcopyrite from Federation hole FRCD019

