



**NAGAMBIE
RESOURCES**

Could Nagambie be another Costerfield?

28 June 2024

**AIG Victorian Minerals Roundup Conference 2024:
“Rocking the Future: The Resources needed to get us
there.”**

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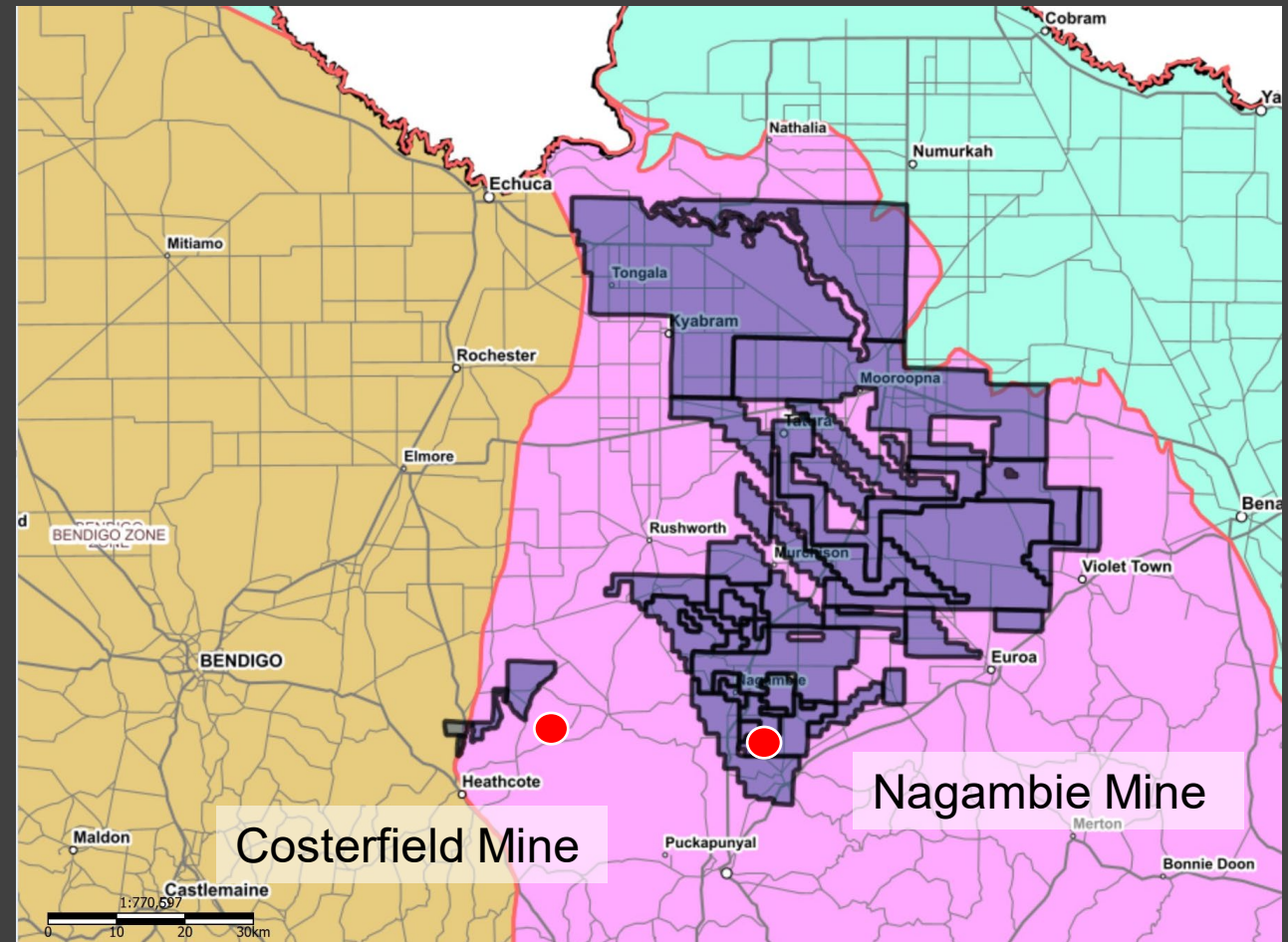
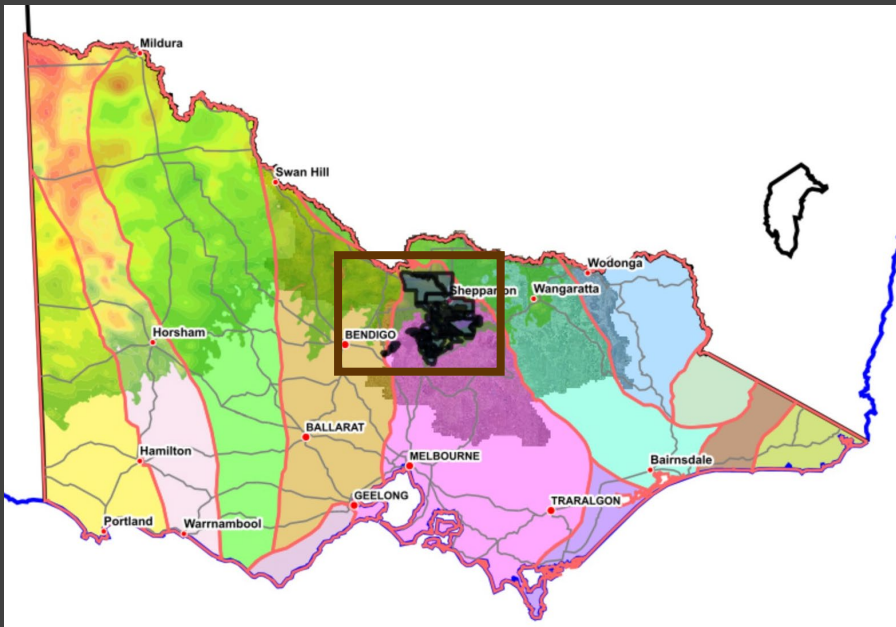
The Exploration Results in this report have been compiled by Mr Adam Jones who is a Member of the Australian Institute of Geoscientists (MAIG). Mr Jones has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration, and to the activity which he is undertaking, to qualify as a Competent Person as defined in the 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". He consents to the inclusion in this report of these matters based on the information in the form and context in which it appears.

Presentation overview

1. The lead up to a discovery
2. The re-discovery of the discovery
3. The maiden JORC Inferred Resource
4. Similarities with the Costerfield Mine

Exploration focus

Nagambie Resources Limited is a gold and antimony explorer targeting epizonal high-grade gold-antimony mineralisation across 3,000 sqkm of tenements in the Waranga Domain of the Melbourne Structural Zone, Victoria, Australia.



Nagambie Mine

Discovered in 1986 by Perseverance Mining Pty Ltd

Mining commenced in 1989

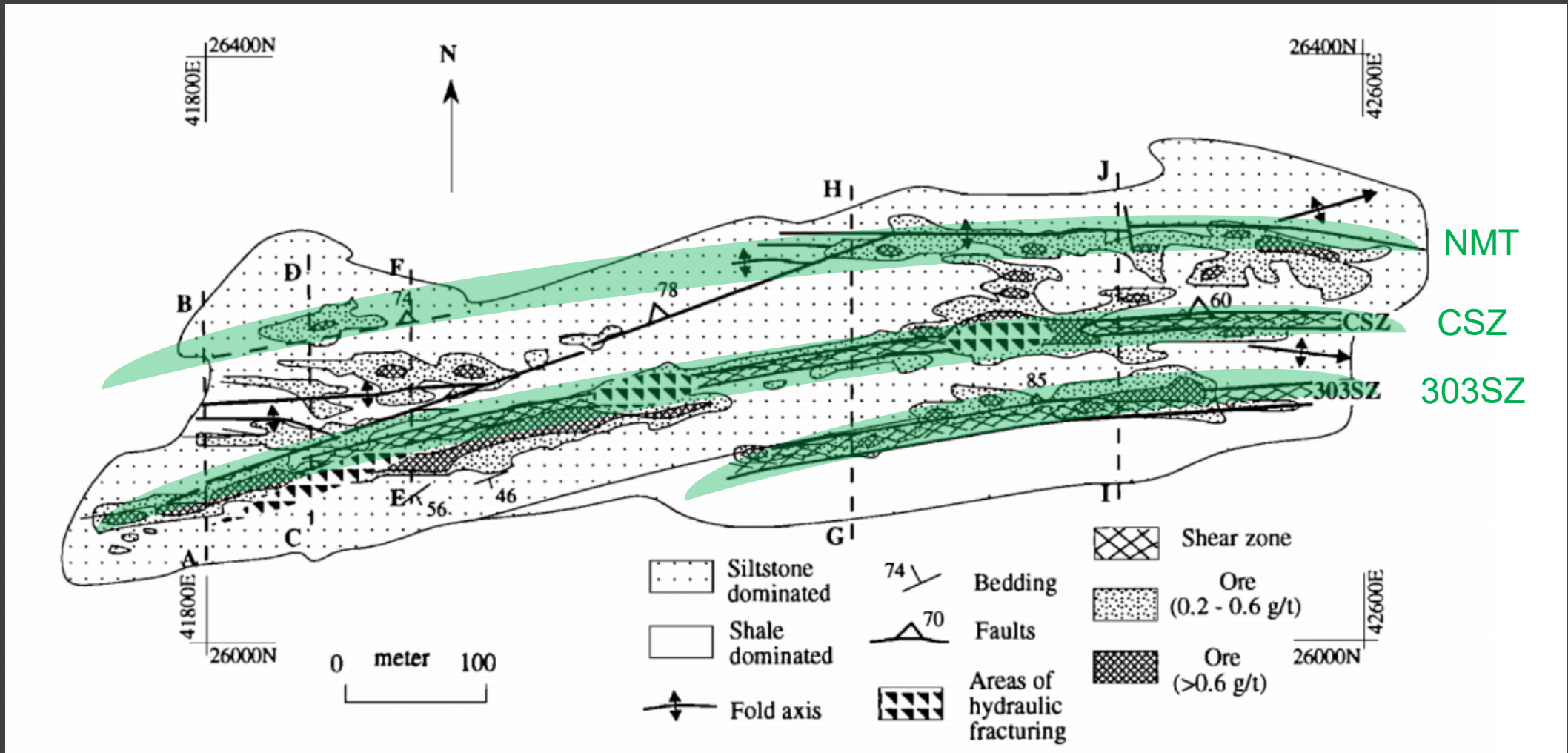
The mine produced 135,000 oz of gold from 7.3Mt of ore and an average grade of 1.2 g/t Au, from two open pits, via heap leaching.

Perseverance Corporation Ltd drilled over a 1000 RC and Diamond drill holes to prove up the resource that existed there.

These holes demonstrated that the mineralisation is controlled by a series of mineralised north dipping east-west striking shear zones containing higher gold grades (4.5-17g/t) in a larger lower grade zone (0.2-2.5g/t) peripheral to these.



East – West Structures

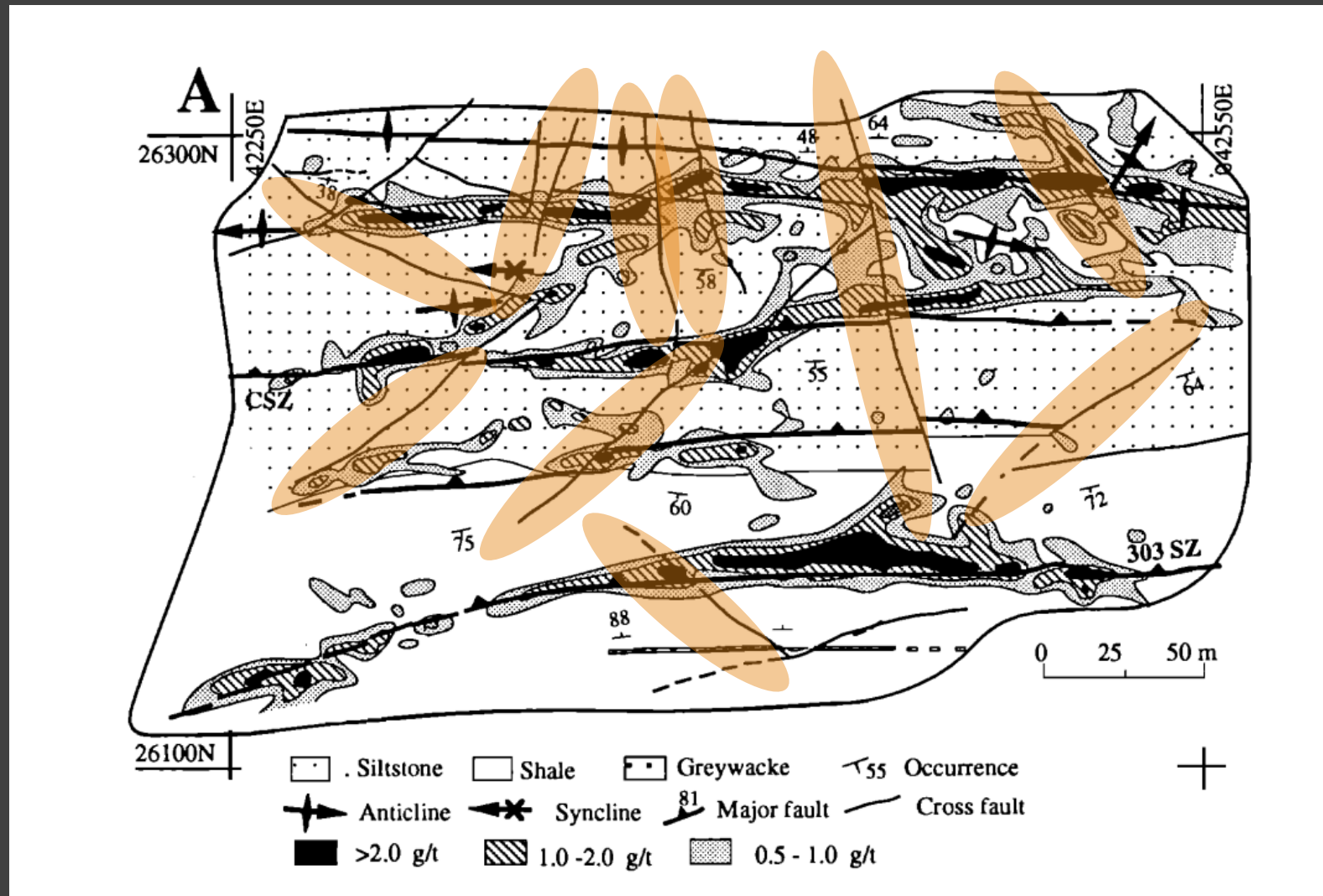


Gao, Z.L., Kwak, T.A.P., Changkakoti, A. and Hussein, E., 1995. 'Supergene Ore and Hypogene Nonore mineralization at the Nagambie Sediment-Hosted Gold Deposit, Victoria, Australia'. *Economic Geology*, 90, pp.1750

But also North –South Structures

Detailed structural mapping of the West Pit was not carried out before mining prematurely ceased at the Nagambie Mine in 1994.

Various generally N-S cross faults (orange) post-dating the E-W shears / thrust faults in the floor of the East Pit



Gao, Z.L., Kwak, T.A.P., Changkakoti, A. and Hussein, E., 1995. 'Supergene Ore and Hypogene Nonore mineralization at the Nagambie Sediment-Hosted Gold Deposit, Victoria, Australia'. *Economic Geology*, 90, pp.1750

2006 - A discovery made but not explained

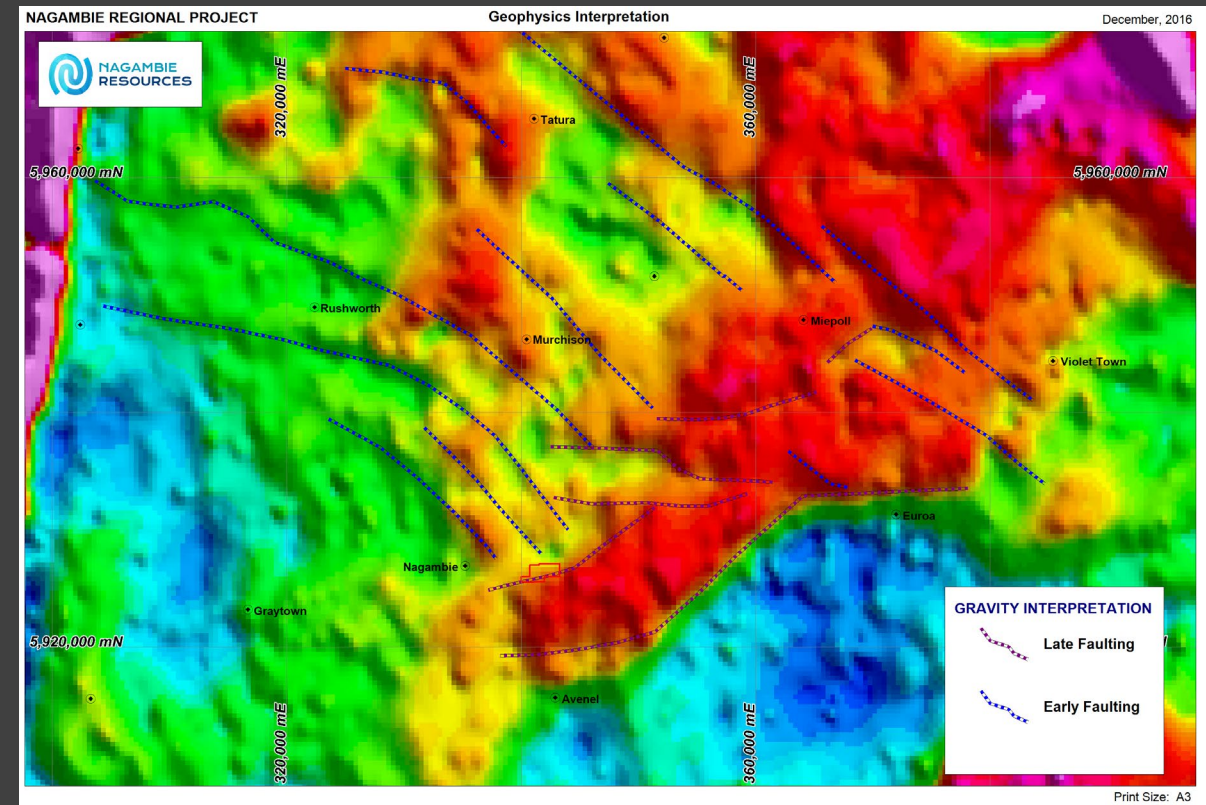
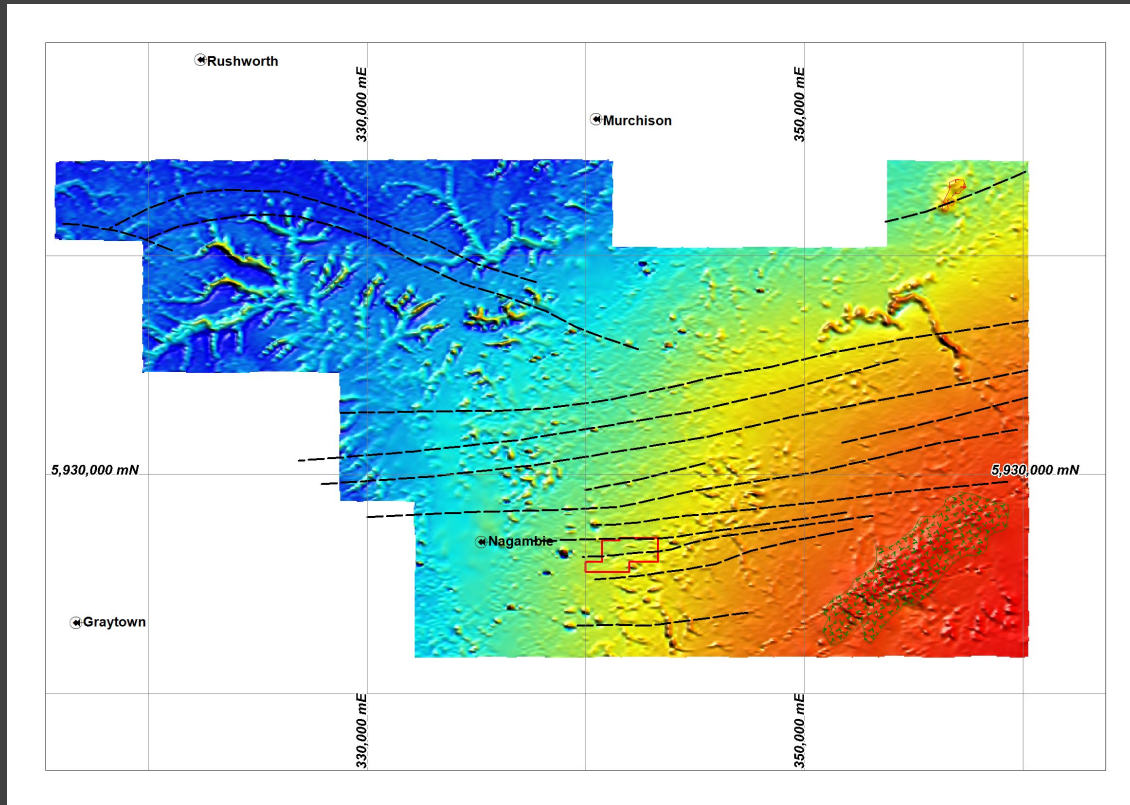
Hole ID	From (m)	To (m)	Sample Type	Intercept (m)	Gold Au g/t	Antimony Sb %	Gold Equiv. AuEq g/t*
NRP02#	109.0	117.0	RC	8.0	7.8	10.2	23.9
including	113.0	115.0	RC	2.0	14.4	33.4	67.1
NRP02	117.0	122.7	RC+Core	5.7	0.4	0.1	0.4
NRP02#	122.7	124.3	Core	1.6	12.5	20.2	44.3
NRP02	124.3	129.2	Core	4.9	2.2	0.2	2.4
NRP02#	129.2	136.1	Core	6.9	5.1	12.6	25.0
including	129.2	129.5	Core	0.3	24.0	60.2	119.1
including	131.3	132.3	Core	1.0	22.0	58.7	114.7
NRP02	109.0	136.1	RC+Core	27.1	4.8	7.5	16.7
NRP02#	Above Cut-Off Only			16.5	7.2	12.3	26.6

* Using a gold equivalent factor of 1.58 (refer section Gold Equivalent Calculation).

ASX announcement 3 March 2022

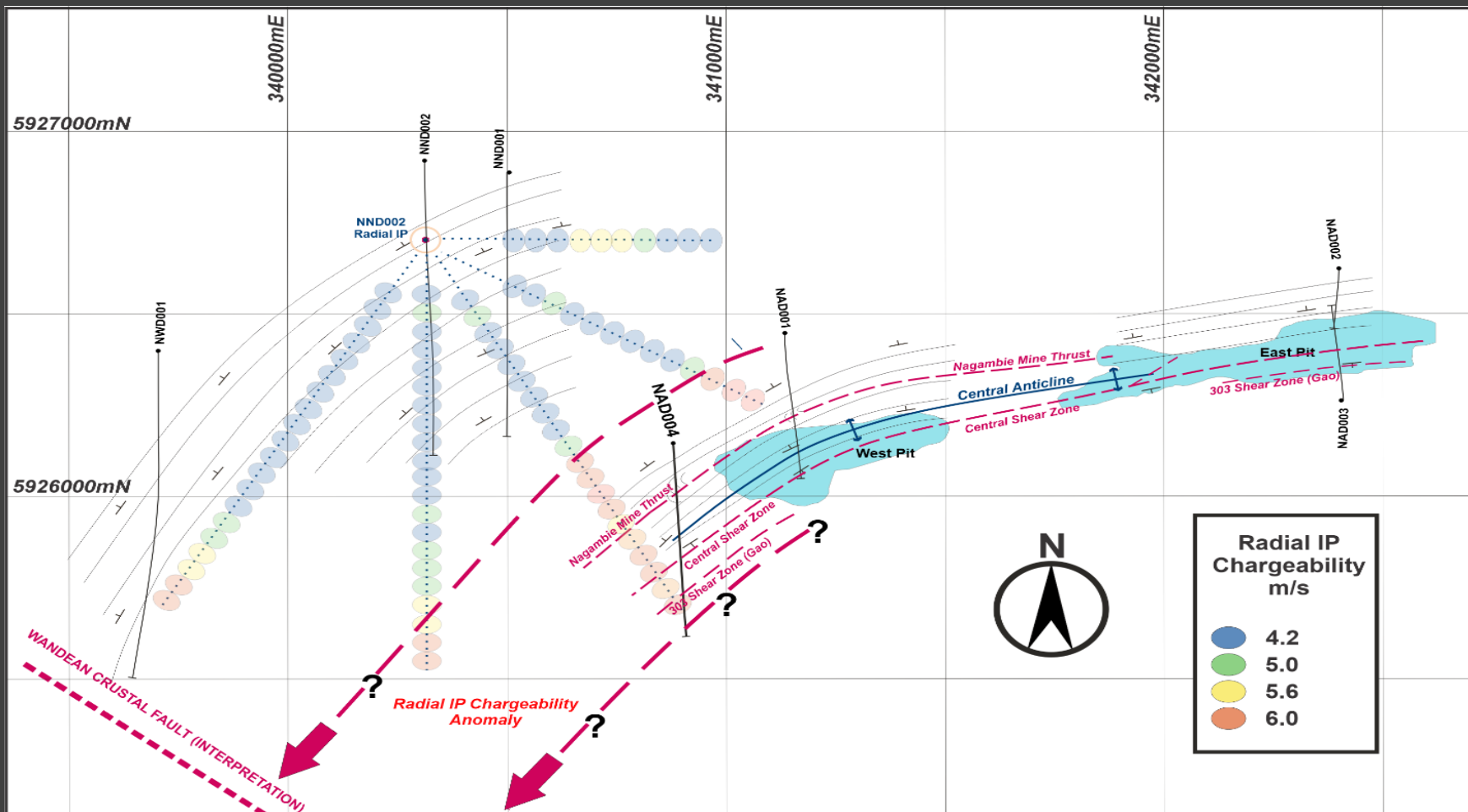


Geological model



Down-the-hole IP Survey

Picked up 'movement' of pyrite mineralisation to the southwest aligning with logging of oriented core



Scale
1:7500

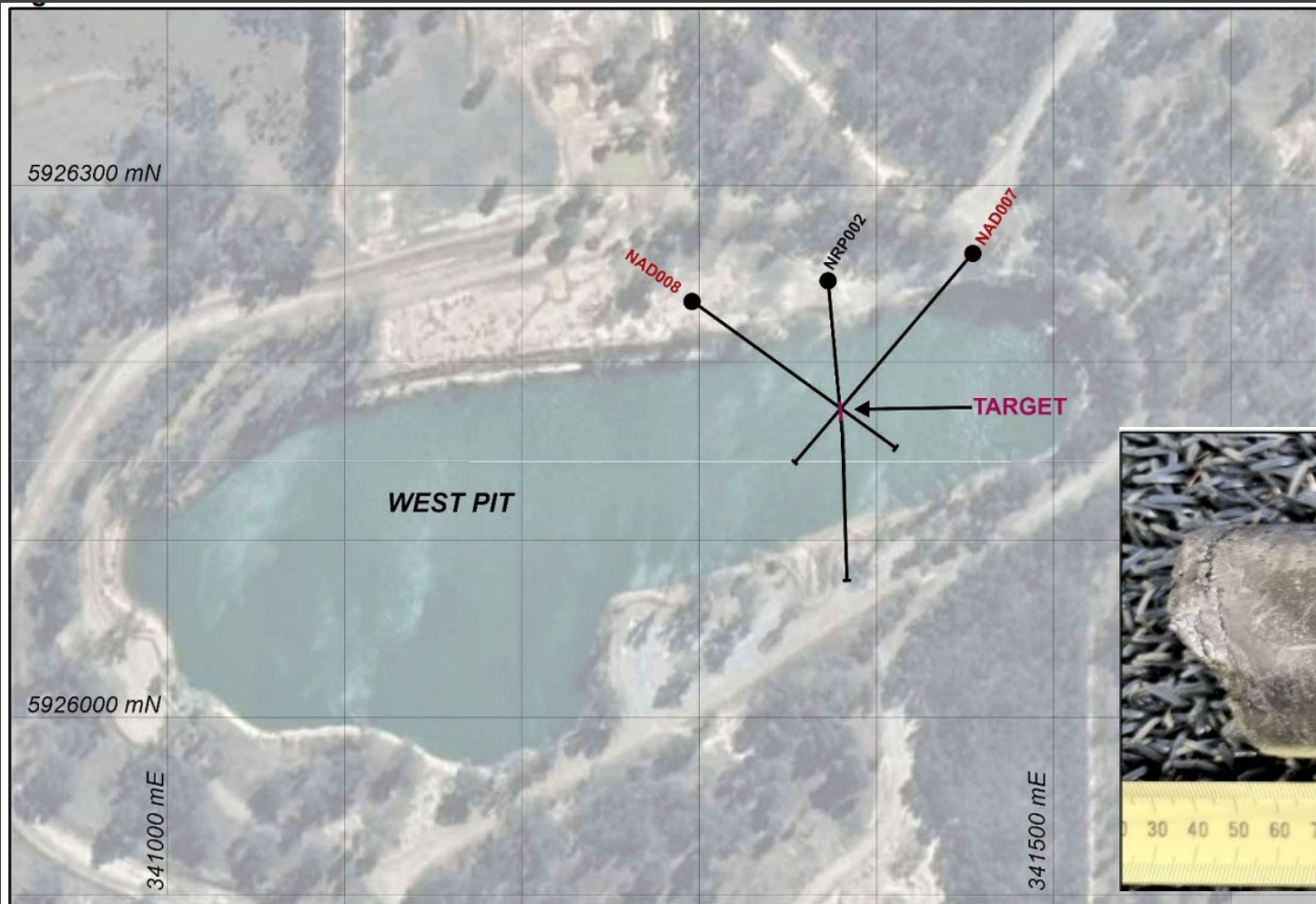
0 250m 500m

NAGAMBIE PROJECT UPDATE MAY 2021
Plan showing bedding strikes, major faults,
drillholes and NND002 chargeability trend



Drawn: Adam Jones May 2021

The re-discovery of the discovery



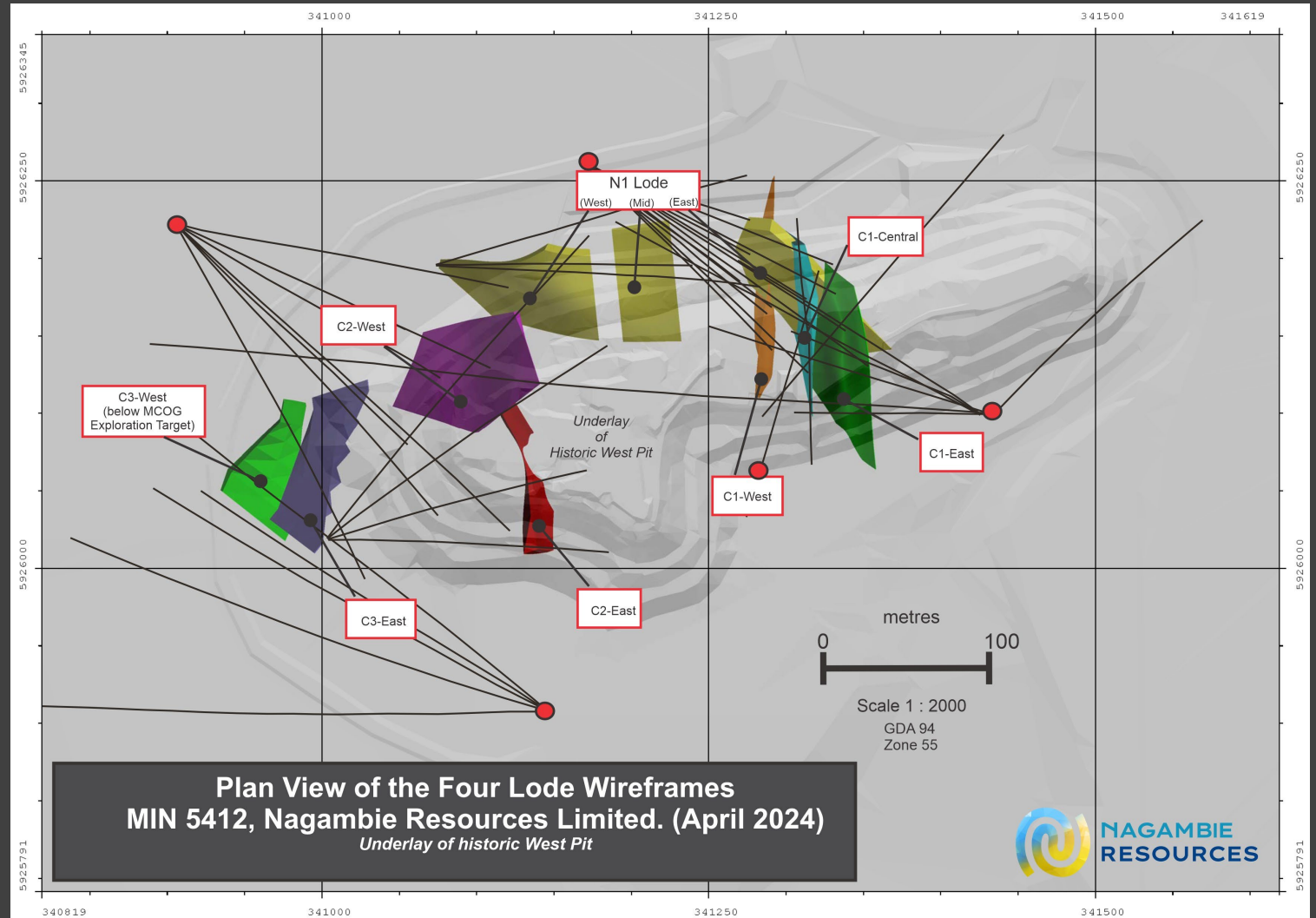
Massive stibnite in NAD008
grading at 50.15 g/t AuEq (0.2m)



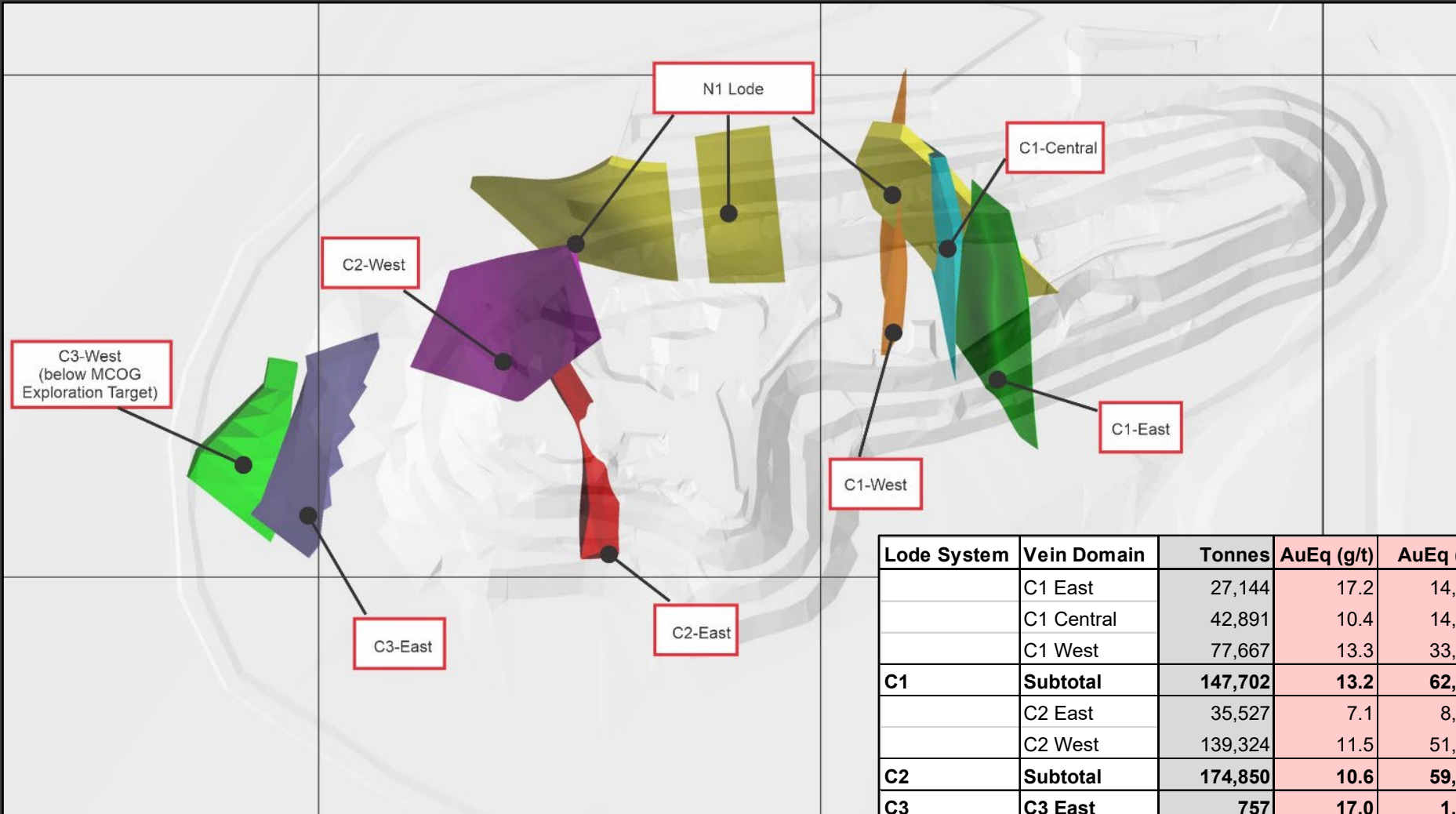
June 2022 Quarterly Report

Drilling – WEST PIT

- 41 diamond drillholes (NAD007 to NAD047) that have identified three generally N-S striking C-style lode systems containing varying numbers of narrow Au-Sb veins
- While drilling the N-S striking C-lodes, a number of E-W striking intersections were obtained which, while not predicted, lined up in a 3D sense. This lode system, called N1, strikes E-W and dips around 50 degrees to the south.



Maiden JORC Inferred Resource

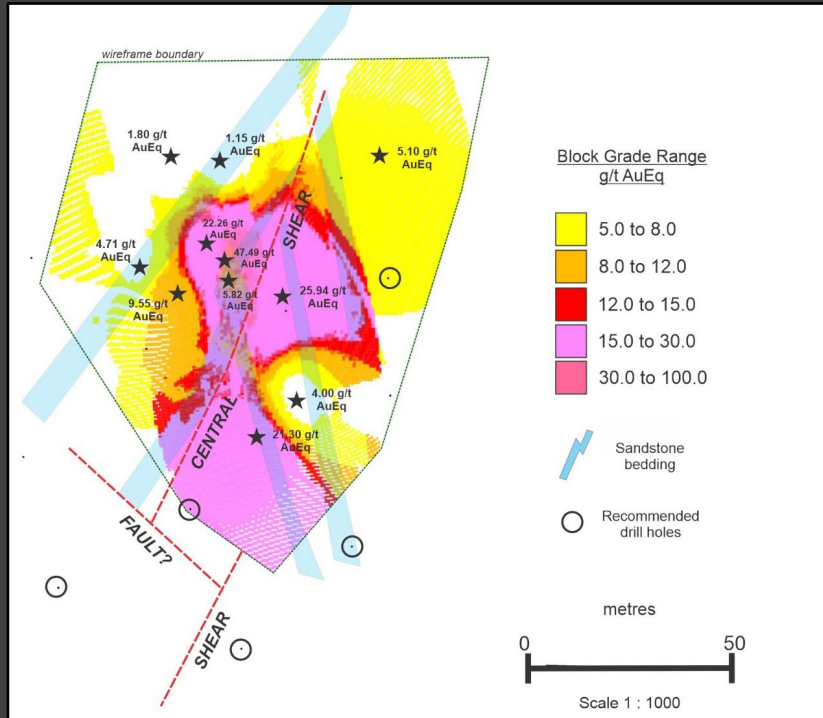


Lode System	Vein Domain	Tonnes	AuEq (g/t)	AuEq (oz)	Au (g/t)	Au (oz)	Sb (%)	Sb (t)
	C1 East	27,144	17.2	14,974	3.9	3,445	7.2	1,941
	C1 Central	42,891	10.4	14,282	3.5	4,894	3.7	1,587
	C1 West	77,667	13.3	33,291	2.0	4,899	6.2	4,799
C1	Subtotal	147,702	13.2	62,548	2.8	13,238	5.6	8,328
	C2 East	35,527	7.1	8,160	1.9	2,140	2.9	1,018
	C2 West	139,324	11.5	51,466	4.2	18,904	4.0	5,504
C2	Subtotal	174,850	10.6	59,626	3.7	21,044	3.7	6,522
C3	C3 East	757	17.0	1,192	0.8	53	8.8	192
N1	Subtotal	91,835	10.2	30,006	4.6	13,456	3.0	2,798
Total		415,144	11.5	153,372	3.6	47,791	4.3	17,840

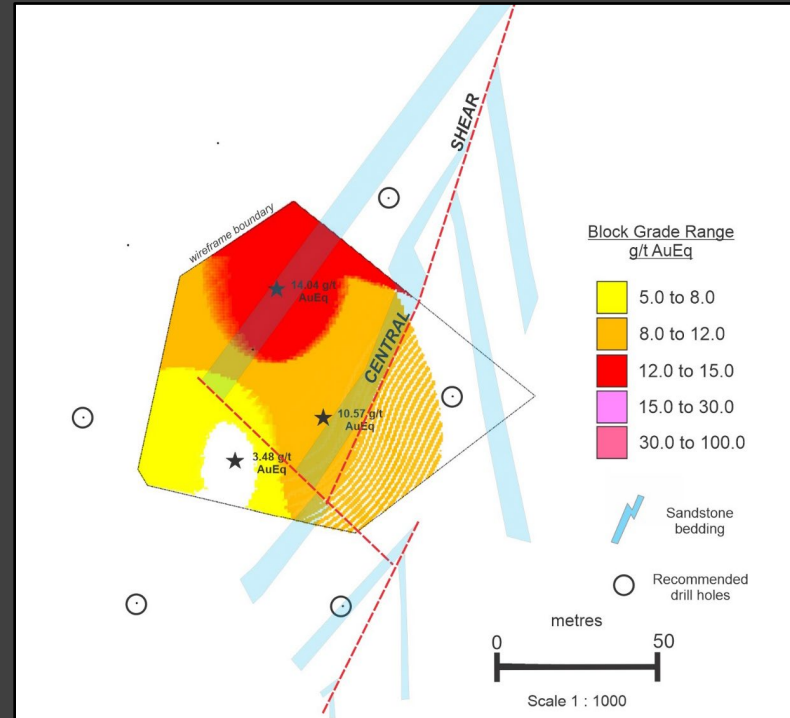
ASX announcement 20 May 2024

Sections through block-modelled C1 lode

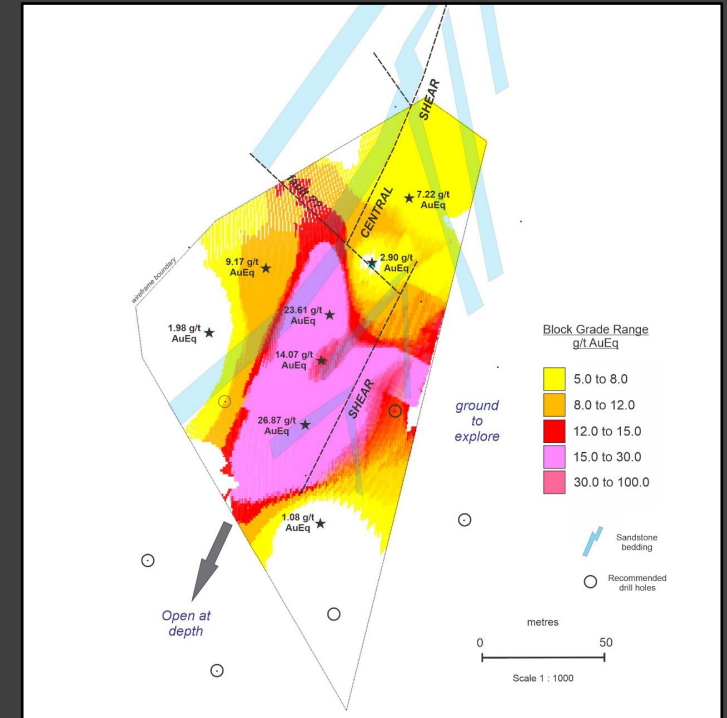
C1 East vein domain
(looking east)



C1 Central vein domain
(looking east)



C1 West vein domain
(looking east)



Massive stibnite veins in the C1 lode system

Massive Stibnite Veining in NAD009 and NAD010



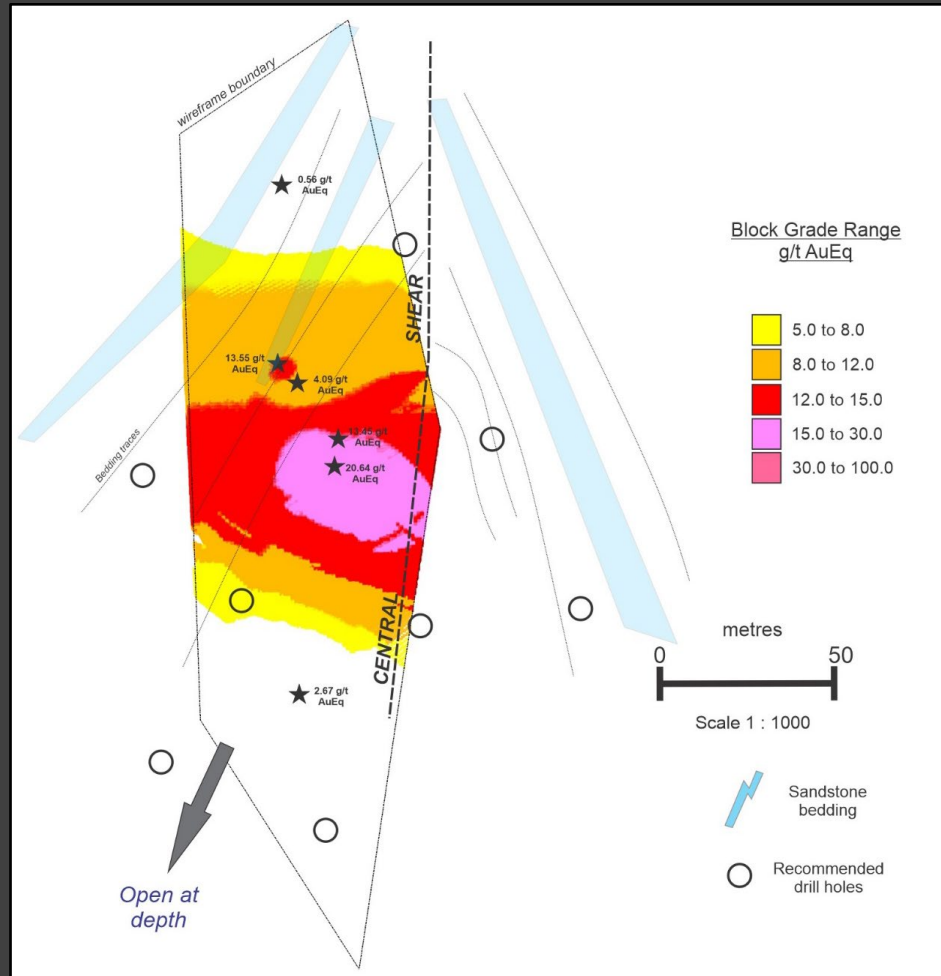
Massive Stibnite Veining in NAD009

Laminated Quartz
Veining in NAD010

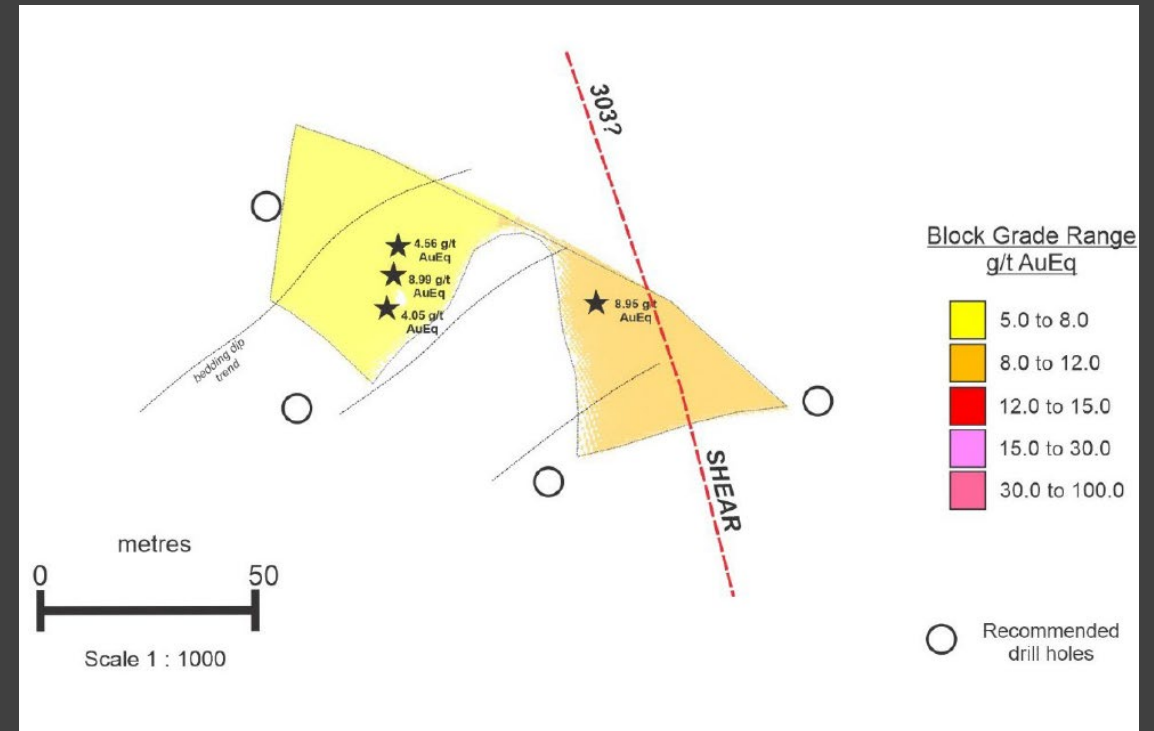


Sections through block-modelled C2 lode

C2 West vein domain (Looking West)

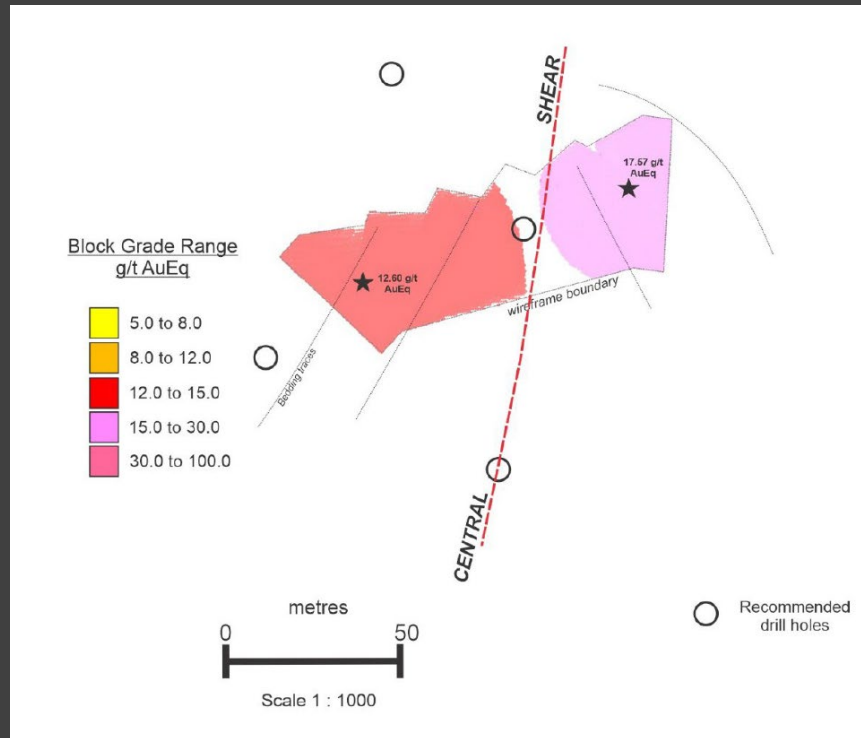


C2 East vein domain (Looking West)

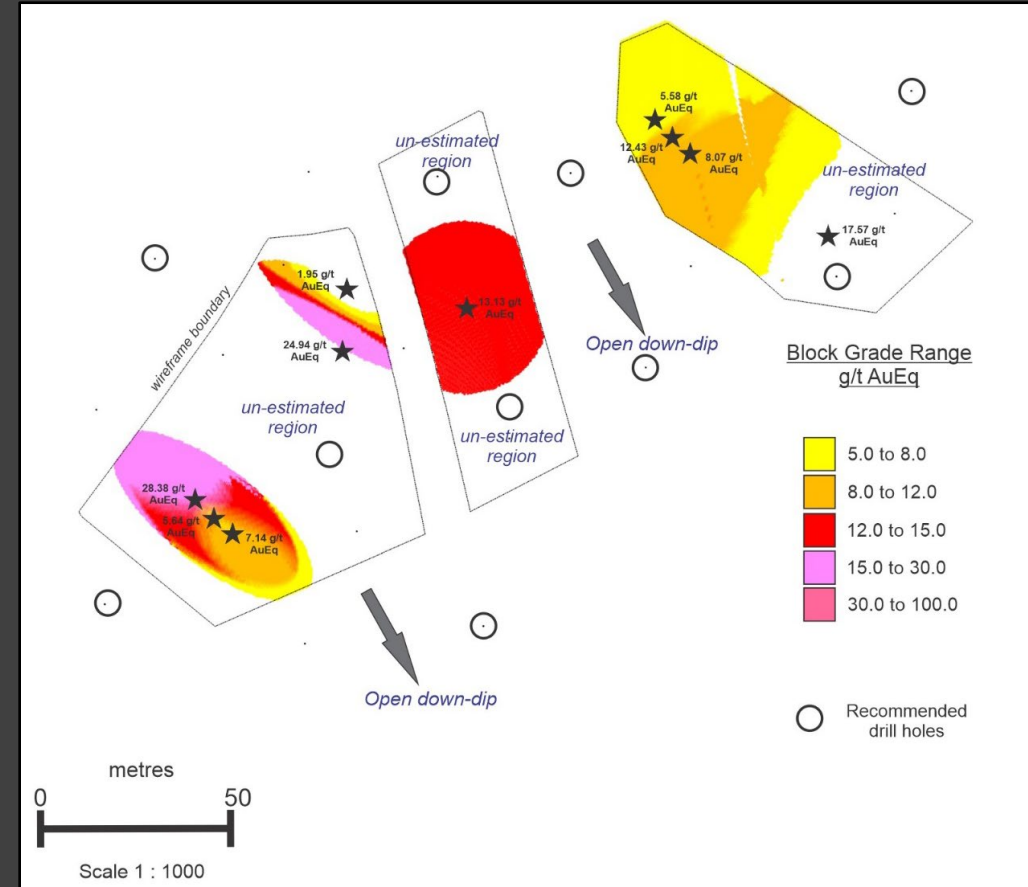


Sections through C3 and N1 lodes

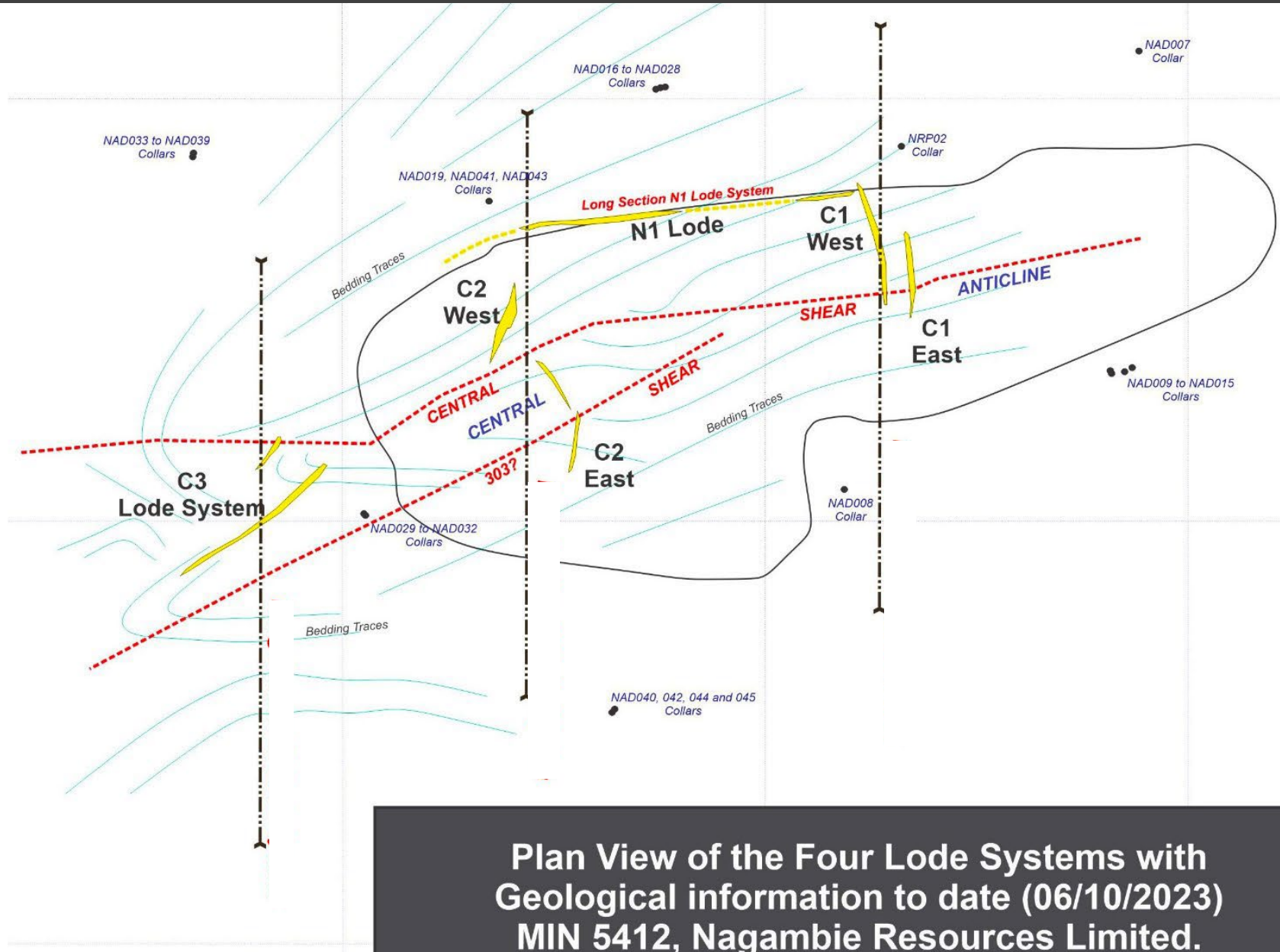
C3 East vein domain (Looking East)



N1 vein domains (looking North)

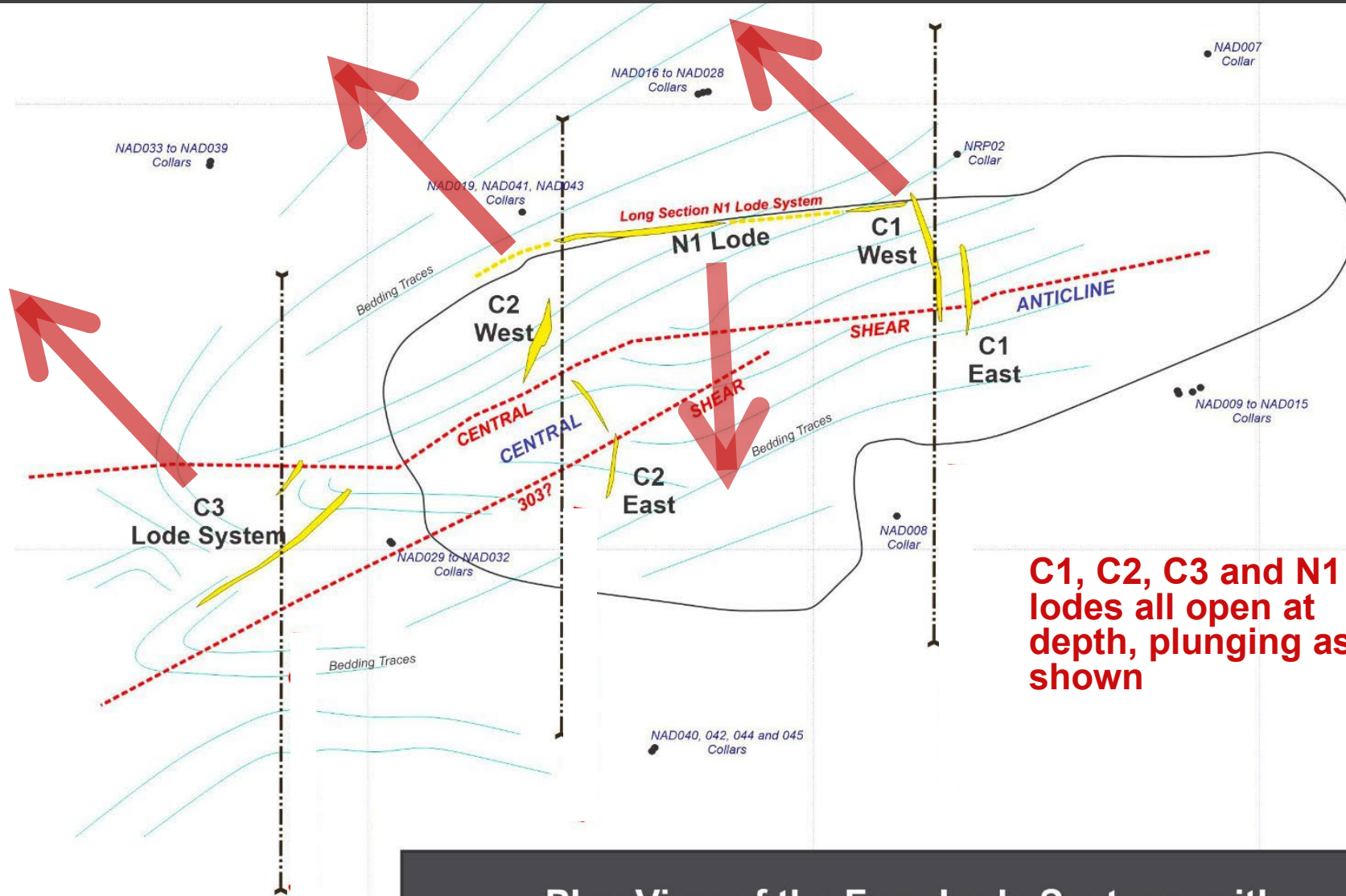


Prospects for growing the Resource



6 prospects for significantly increasing the Maiden Inferred Resource

Prospects for growing the Resource

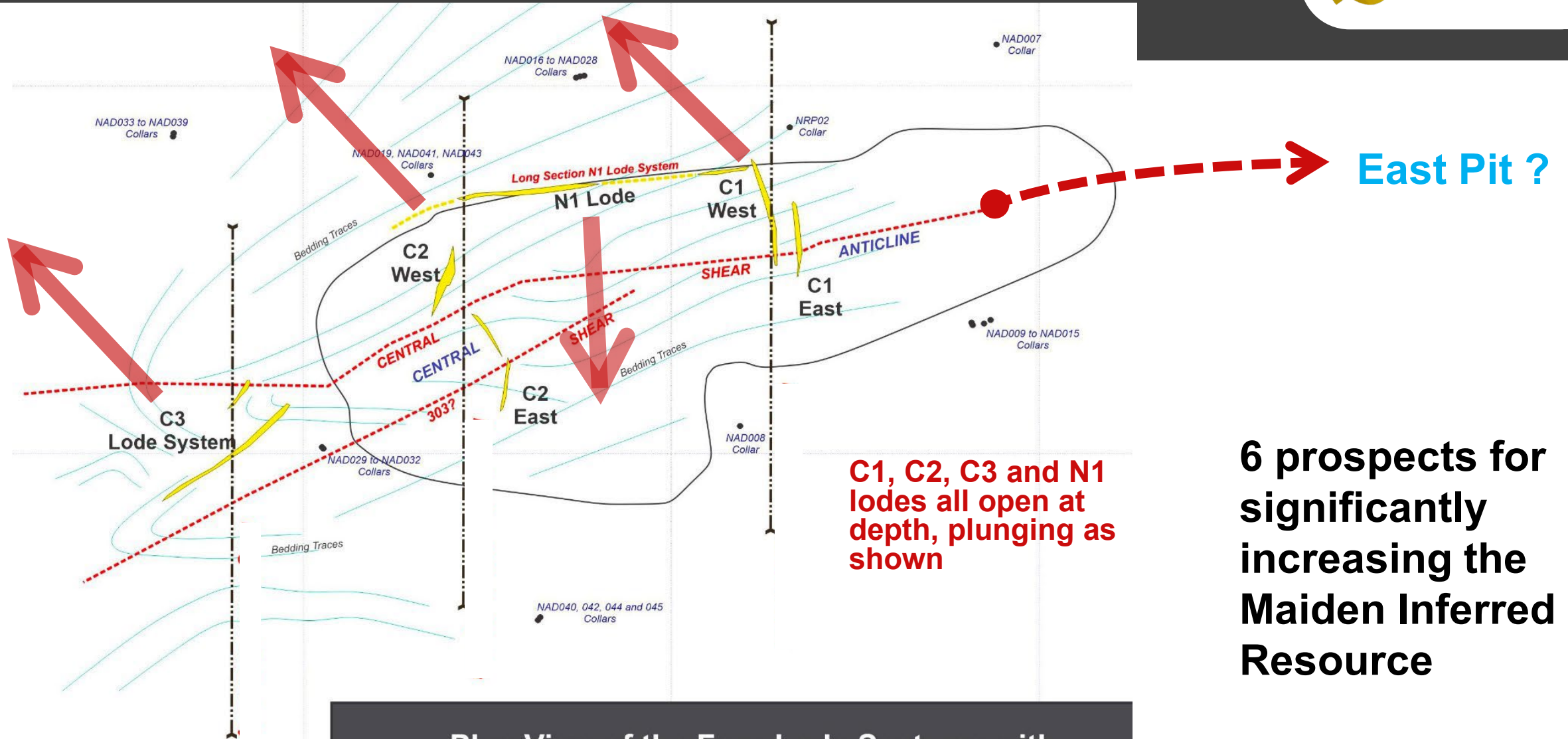


**C1, C2, C3 and N1
lodes all open at
depth, plunging as
shown**

**6 prospects for
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**Plan View of the Four Lode Systems with
Geological information to date (06/10/2023)
MIN 5412, Nagambie Resources Limited.**

Prospects for growing the Resource

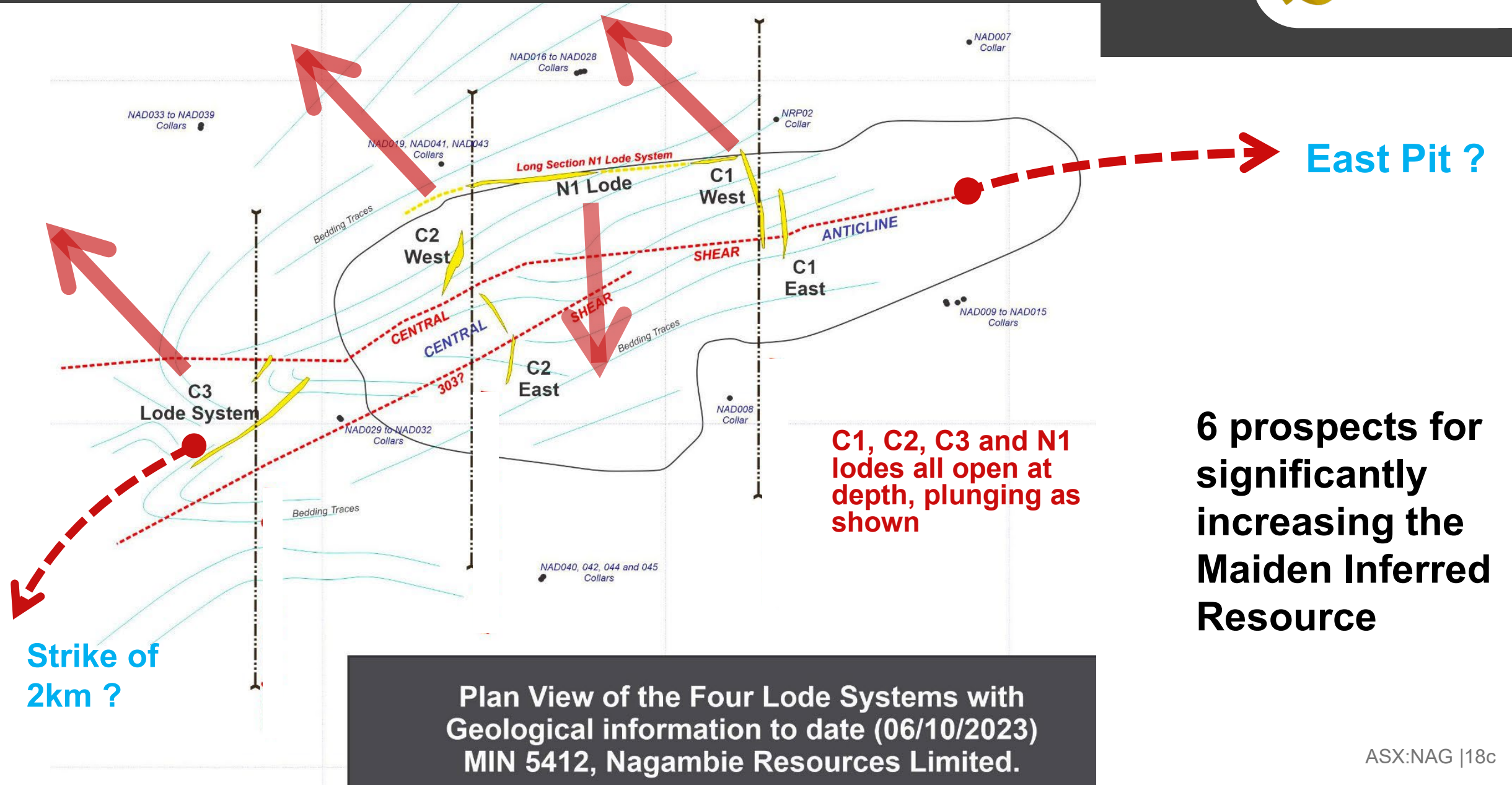


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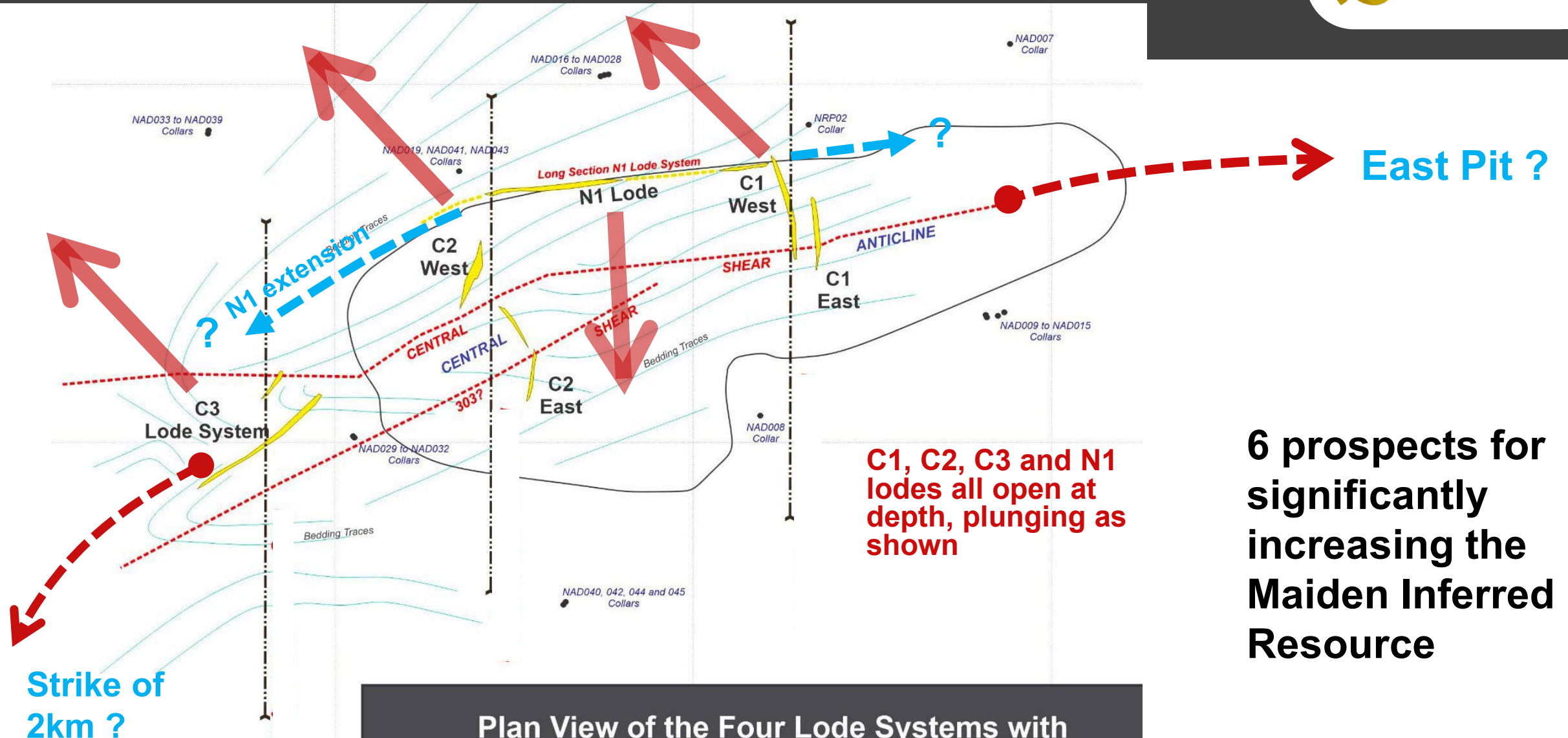
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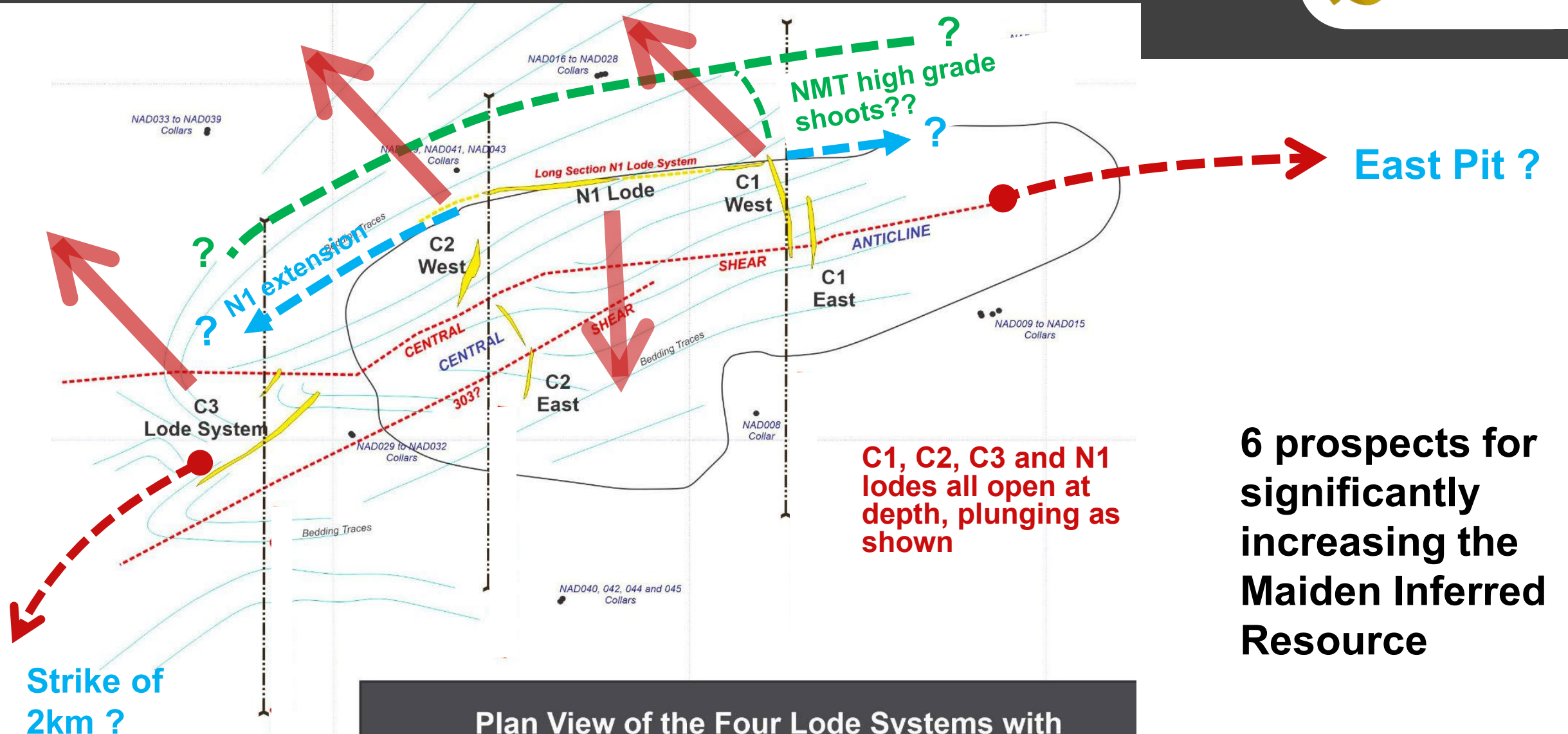


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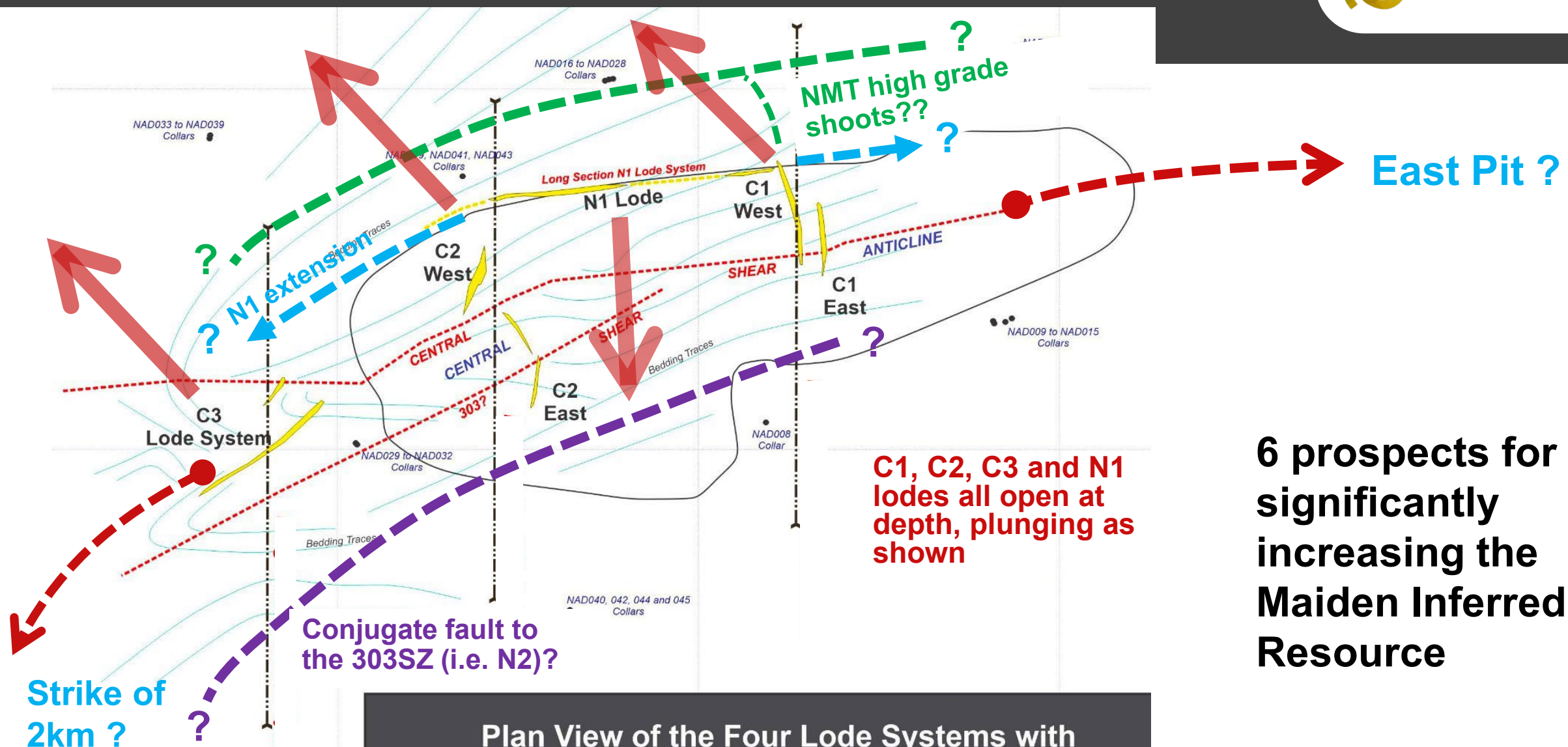


C1, C2, C3 and N1 lodes all open at depth, plunging as shown

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Prospects for growing the Resource



C1, C2, C3 and N1 lodes all open at depth, plunging as shown

6 prospects for significantly increasing the Maiden Inferred Resource

**Plan View of the Four Lode Systems with Geological information to date (06/10/2023)
MIN 5412, Nagambie Resources Limited.**

Similarities to Costerfield

- The deposits are both underlain by the Selwyn Block, considered to be the source of the gold and antimony in the Melbourne Structural Zone
- The host rocks for the structurally-controlled, gold-antimony veins at both deposits are marine sediments (fine grained mudstones/siltstones with minor sandstone units) that are known to extend to kilometres depth above the underlying Selwyn Block (deep seismic work by Victorian Geological Survey)
- The antimony in the quartz and quartz-carbonate veins at Nagambie occurs in the form of massive stibnite
- Finely-disseminated gold occurs within the stibnite, but also occurs to a lesser extent within pyrite and arsenopyrite.
- The Nagambie veins, like Costerfield's:
 - are narrow, predominately 0.1m to 2.0m true width;
 - strike predominately north-south;
 - dip sub-vertically to the west, predominately 50 degrees to 90 degrees; and
 - have good continuity both vertically and horizontally.

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