

AIG Victorian Minerals Round-up 2024



SOUTHERN CROSS

Sunday Creek – A significant high-grade Au-Sb discovery in the Melbourne Zone. 28th June 2024





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Competent Persons Statement

Information in this presentation that relates to new exploration results contained in this report is based on information compiled by Michael Hudson, a Fellow of the Australasian Institute of Mining and Metallurgy. He is MD for Southern Cross Gold Ltd. He has sufficient experience which is relevant to the style of mineralisation and types of deposits under consideration and to the activity being 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 (the JORC Code). Michael Hudson has consented to the inclusion in this report of the matters based on this information in the form and context in which it appears.

Certain information in this announcement that relates to prior exploration results is extracted from the Independent Geologist's Report dated 16 March 2022 which was issued with the consent of the Competent Person, Mr Terry C. Lees. The report is included the Company's prospectus dated 17 March 2022 which was released as an announcement to ASX on 12 May 2022 and is available at www2.asx.com.au under code "SXG". The Company confirms that it is not aware of any new information or data that materially affects the information related to exploration results included in the original market announcement. The Company confirms that the form and context of the Competent Persons' findings in relation to the report have not been materially modified from the original market announcement.

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original document/announcement and the Company confirms that the form and context in which the Competent Person's findings are presented have not materially modified from the original market announcement.

Certain information in this announcement also relates to prior exploration results, are extracted from the following announcements, which are available to view on www.southerncrossgold.com.au:

4 October, 2022 SDDSC046, 23January, 2023 SDDSC051, 3 July, 2023 SDDSC071, 28 August, 2023 SDDSC078, 29 August, 2023 SDDSC068, 5 September, 2023 SDDSC077B, 12 October, 2023 SDDLV003 & 4, 23 October, 2023 SDDSC082, 9 November, 2023 SDDSC091, 14 December, 2023 SDDSC092, 5 March, 2024 SDDSC107, 13 June, 2024 SDDSC118.



Aim to Create the Highest Margin Gold Business Globally

Exceptional Hit Rate

Sunday Creek compares favorably with global leading hit rates for this stage of the project's development

42/48 individual intersections >100/>50 AuEq g/t m("AuEq g/t x width in m")

120 drill holes for 52,435m reported to date

49 vein sets wireframed within main drill area

) 3 Clear Objectives

Drilling plan has three clear objectives that will have the largest emphasis over the next six months







Demonstrate **Scale**

Local Team & Experiences

Small, but experienced team from a range of Victorian deposits including Fosterville, Costerfield, Bendigo, Ballarat & Stawell Mines

News flow continuous

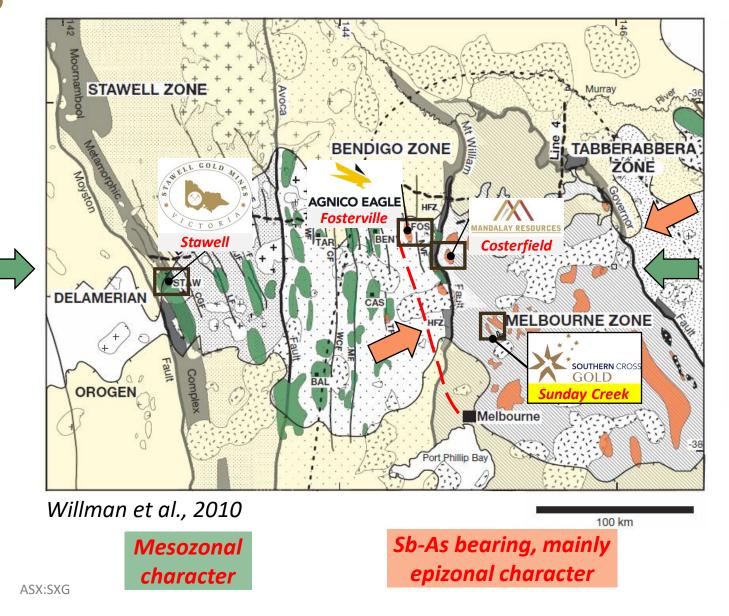


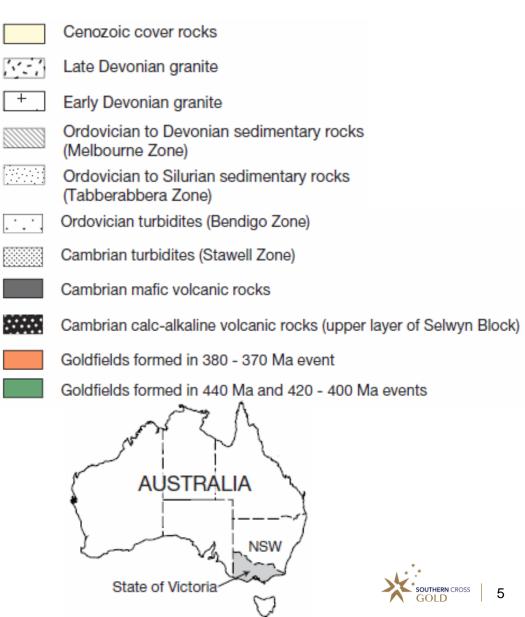
\$13.5 m Fully funded and permitted

133.3 ha of freehold land, two properties

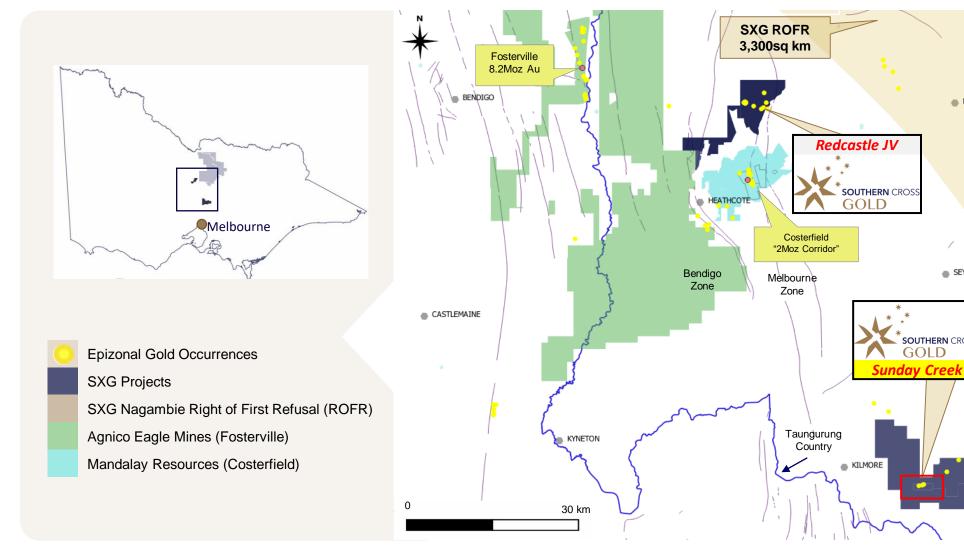


Regional geology of Victoria's largest gold deposits





Tenure held by Southern Cross Gold





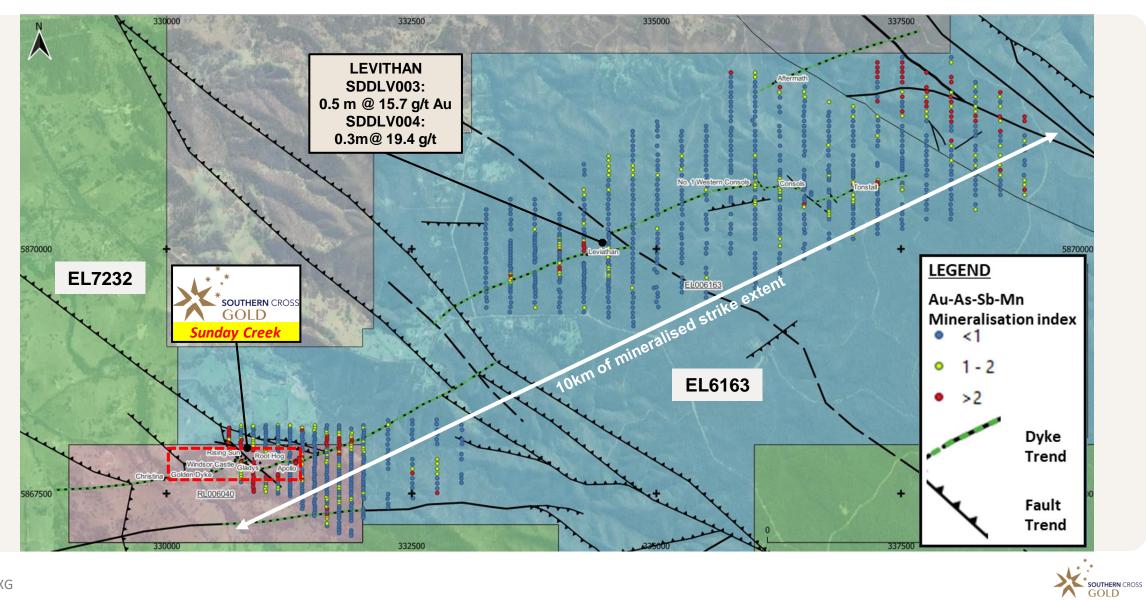
NAGAMBIE

SEYMOUR

SOUTHERN CROSS GOLD

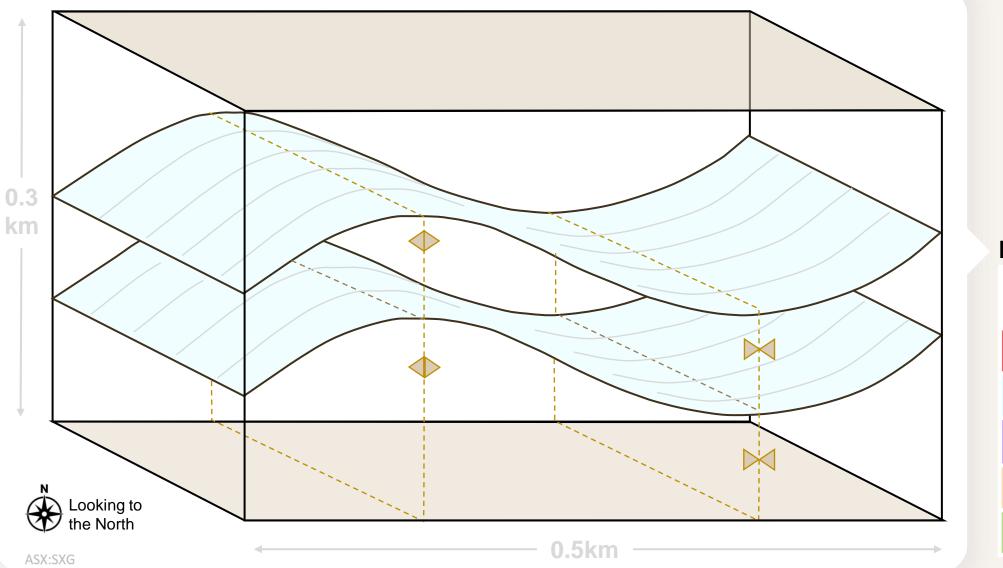


Regional Scale – Plan View



ASX:SXG

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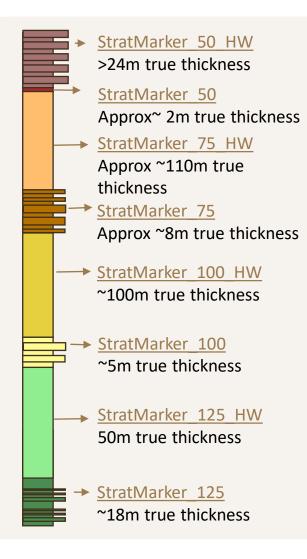
DESCRIPTION:

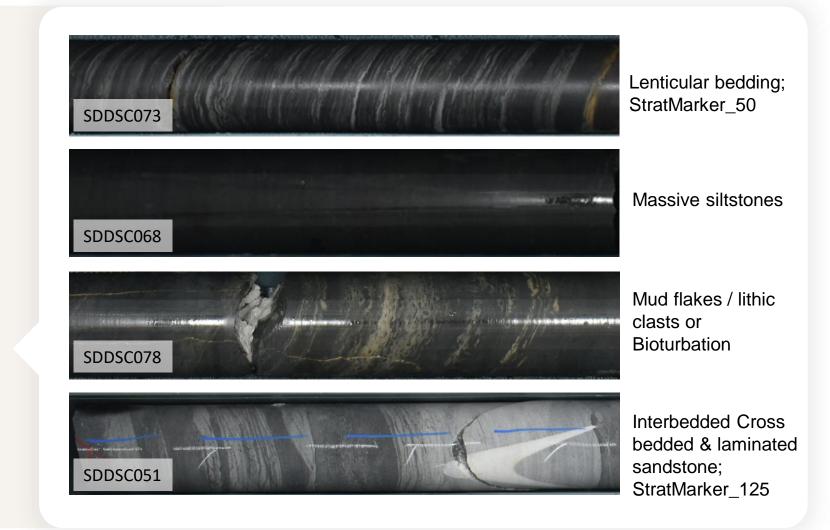
Northeast/southwest compression during the Middle Devonian Tabberabberan Orogeny creates gentle to open folding of sediments

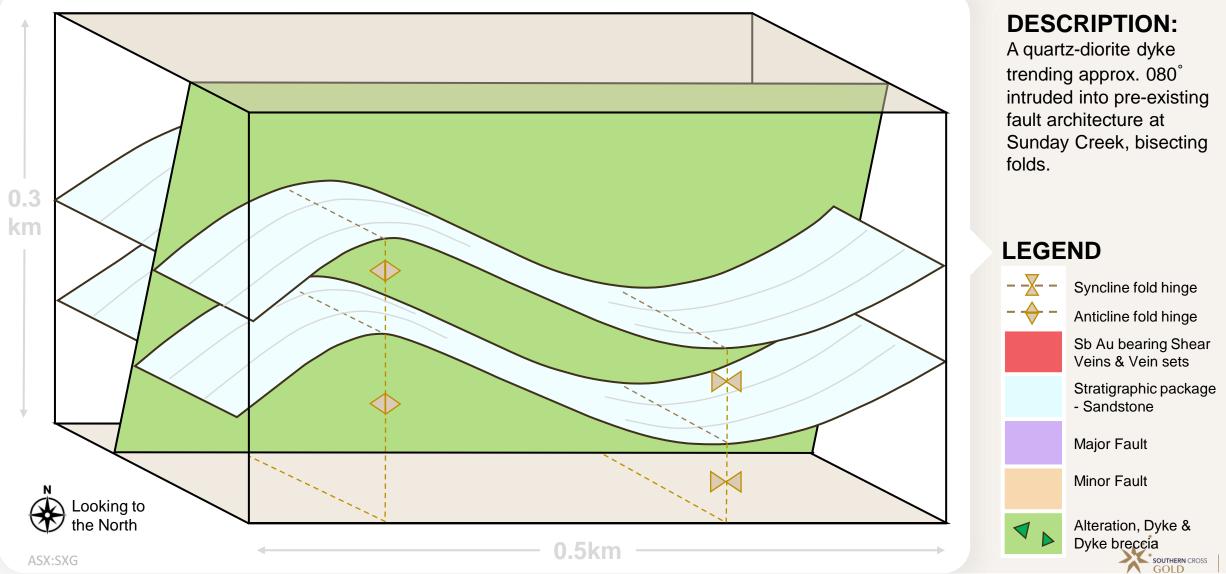
LEGEND



Six stratigraphic units identified to date







Dyke emplacement (± Alteration?)



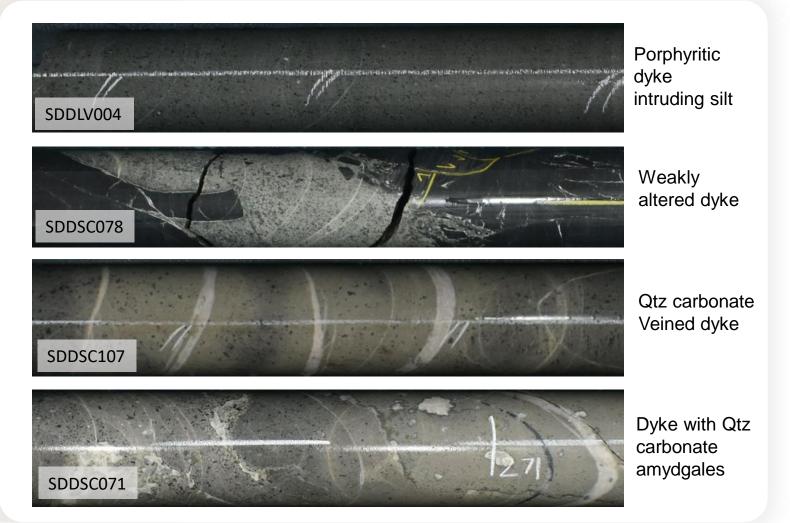
Dyke intrudes preexisting fault architecture, forming subvertical to vertical intrusive body, dipping to the north.



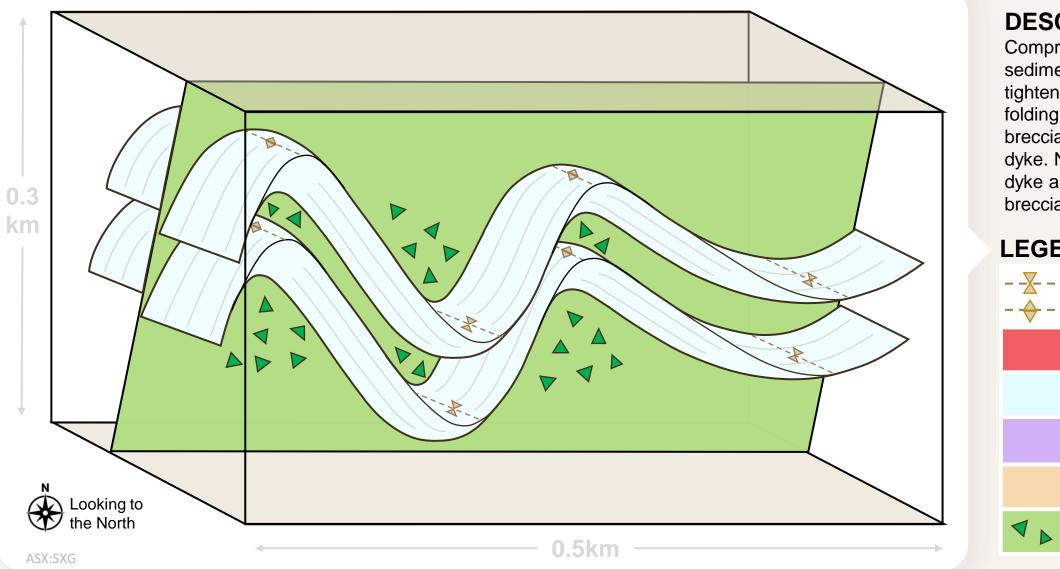
Dyke can be up to 50m in thickness. Dyke has localised weak magnetism, porphyritic textures and amygdales.



An alteration zone around the dyke occurs, typically 10 to 30 m. wide, occurs in and adjacent to the dyke. In the dyke, sericite-carbonate-silicafuchsite is common, while adjacent to the dyke it is mainly sericite-carbonate ± silica.



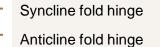
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DESCRIPTION:

Compression of dyke and sediments causes tightening and parasitic folding of sediments and brecciation of preexisting dyke. Novel addition of dyke and fluids to brecciated areas.





Sb Au bearing Shear Veins & Vein sets

Stratigraphic package - Sandstone

Major Fault

Minor Fault

Alteration, Dyke & Dyke breccia

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Compressional event tightens folds and brecciates dyke



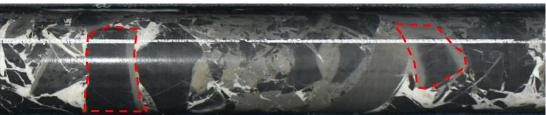
Displaying an evolving system, brecciation of the dyke, unaltered sediments and altered sediments show evidence of multiple events of dyke emplacement and fluid addition to the system







Overprinting relationships show Au Sb bearing Qtz Carbonate veins overprinting dyke brecciation event





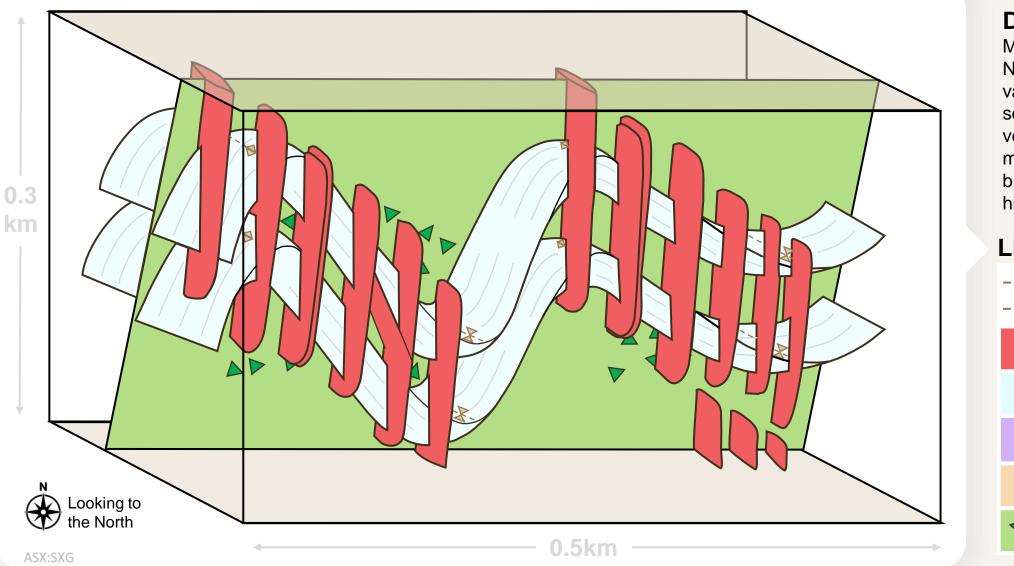
Mixture of dyke and qtz matrix surround altered & unaltered sediment clasts

Dyke clasts surrounded by dyke matrix

Dyke breccia with clasts displaying uniform & irregular alteration halos

Overprinting relationship – Au Sb bearing Qtz veins overprint breccia





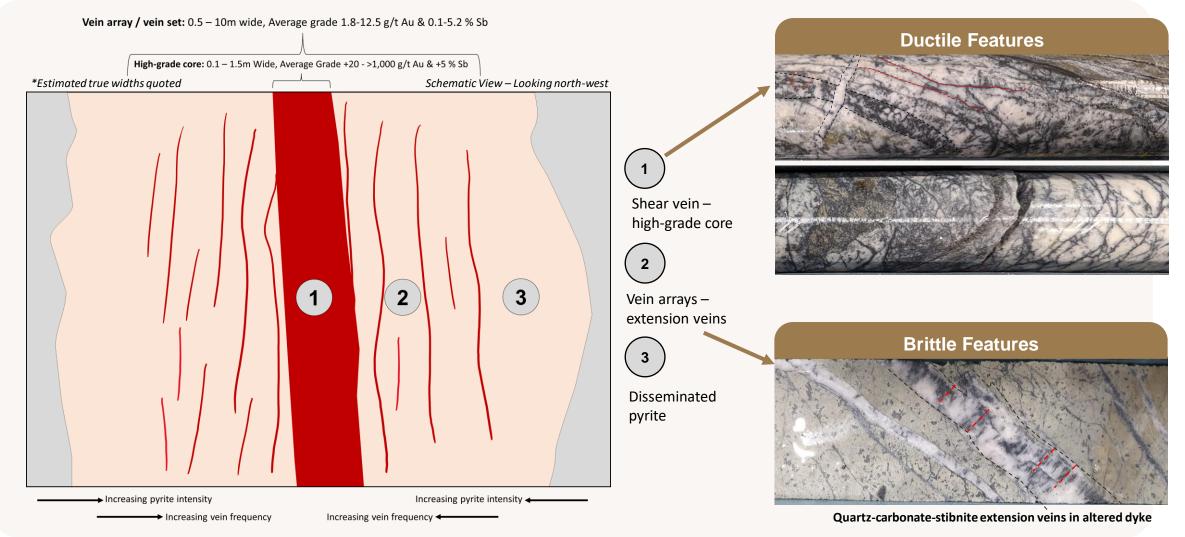
DESCRIPTION:

Mineralisation forms within NNW striking vein sets, varying from centimeter scale crack-seal veins, to veins with sheared margins, to messy, veinbreccias often carrying higher grades.

LEGEND



Vein Morphology



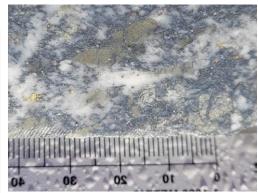


Great Projects Keep Getting Better

All of the 5 best intersections on the project have been drilled recently

Top 10 intersections at Sunday Creek:

Rank	Date`	Hole-ID	From (m)	To (m) l	Length (m)	Au g/t	Sb%	AuEq g/t	AuEq g/t * m
1	5-Mar-24	SDDSC107	684.3	685.4	1.0	2,318.4	0.3	2,318.9	2,389
2	5-Sep-23	SDDSC77B	737.1	740.7	3.6	391.9	0.8	393.4	1424
3	9-Nov-23	SDDSC091	430.0	450.0	20.0	62.7	0.5	63.7	1274
4	14-Dec-23	SDDSC092	681.6	684.9	3.3	267.8	1.8	271.1	889
5	23-Oct-23	SDDSC082	417.4	419.0	1.6	500.3	0.1	500.5	801
6	13-Jun-24	SDDSC118	1120.4	1124.0	3.6	124.8	0.0	124.8	449
7	13-Jun-24	SDDSC118	555.7	556.4	0.7	604.0	0.0	604.0	441
8	23-Oct-23	SDDSC082	413.6	415.4	1.7	230.6	9.9	249.1	429
9	5-Mar-24	SDDSC107	566.9	576.0	9.1	39.1	0.6	40.2	368
10	4-Oct-22	SDDSC046	187.5	201.8	14.3	20.5	2.6	25.4	363



Zoomed in SDDSC091 from 439 m (within assayed interval 0.5 m @ 1,497.4 g/t AuEq (1490.0 g/t Au, 4.7% Sb) from 438.8 m to 439.3 m showing cut core with brecciated dioritic dyke, with stibnite and quartzcarbonate veining with fine, disseminated frequent visible gold. mm scale.



ASX:SXG SDDSC107 from 684.7 m (within assayed interval 1.03 m @ 2319 g/t AuEq (2318.4 g/t Au, 0.3 % Sb) from 684.32 m to 685.35 m) showing cut core, with stibnite and quartz-carbonate veining with fine, disseminated frequent visible gold.

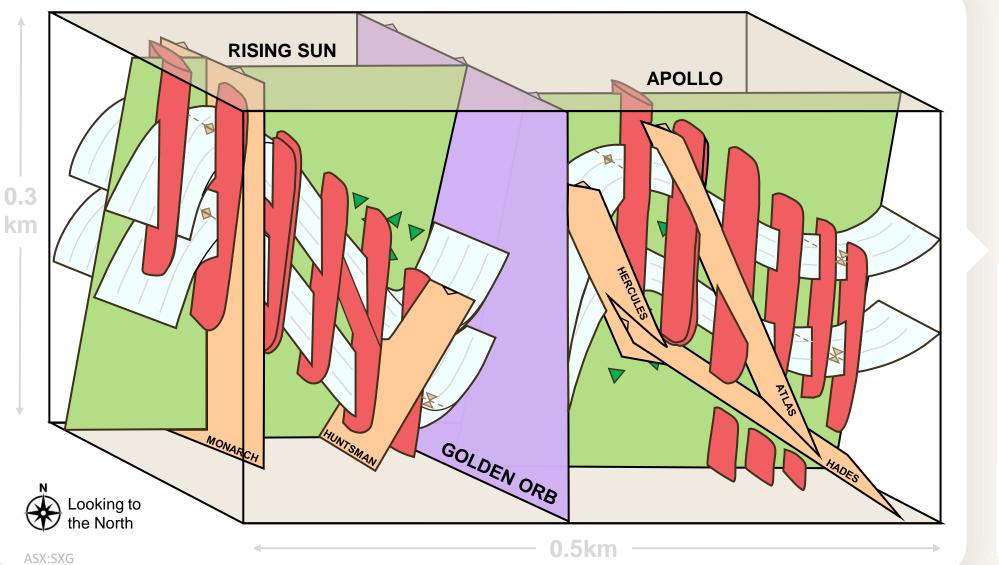


SDDSC082 from 592 m (within assayed interval 0.9 m @ 351.3 g/t AuEq (351.2 g/t Au, 0.0% Sb) from 591.4 m to 592.3 m) showing uncut core with quartz-carbonate massive vein with visible gold. mm scale



SDDSC077B from 739.9 m (0.8 m @ 1,741.5 g/t AuEq (1,736.4 g/t Au, 3.3% Sb) showing quartz-carbonate stockwork with visible gold, stibnite and sulphosalts in an altered dyke. Millimetre scale.

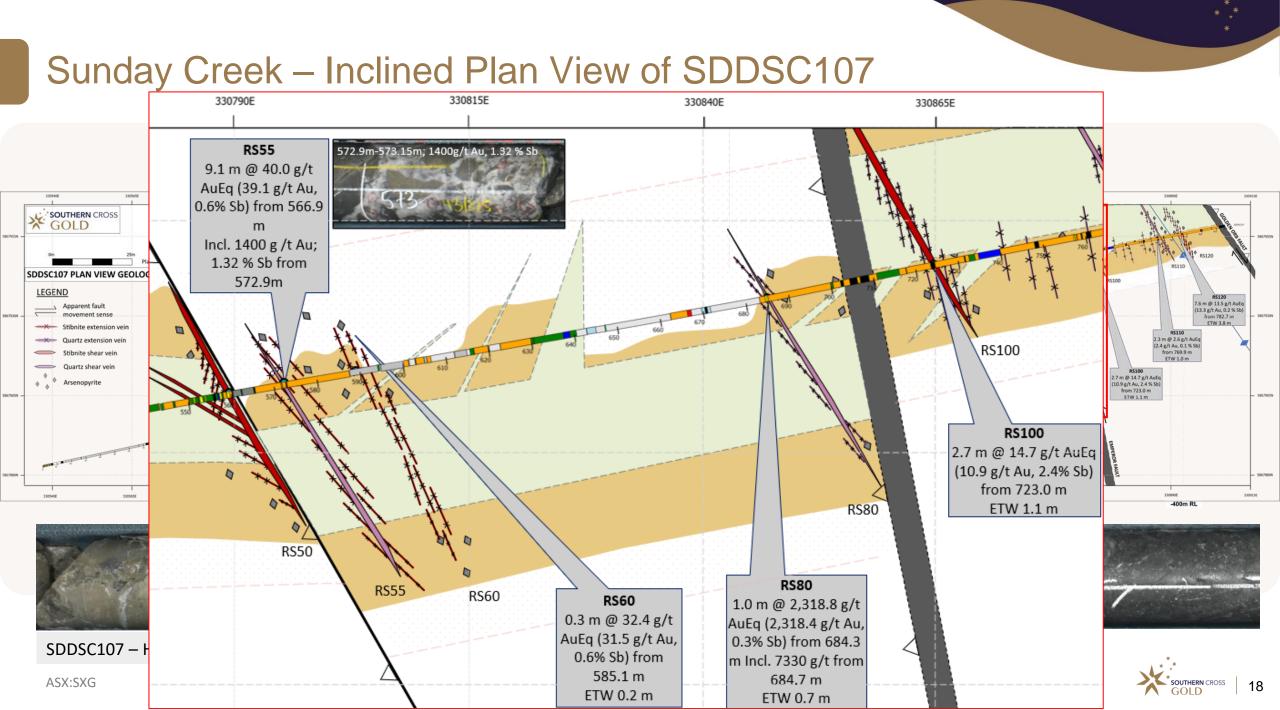


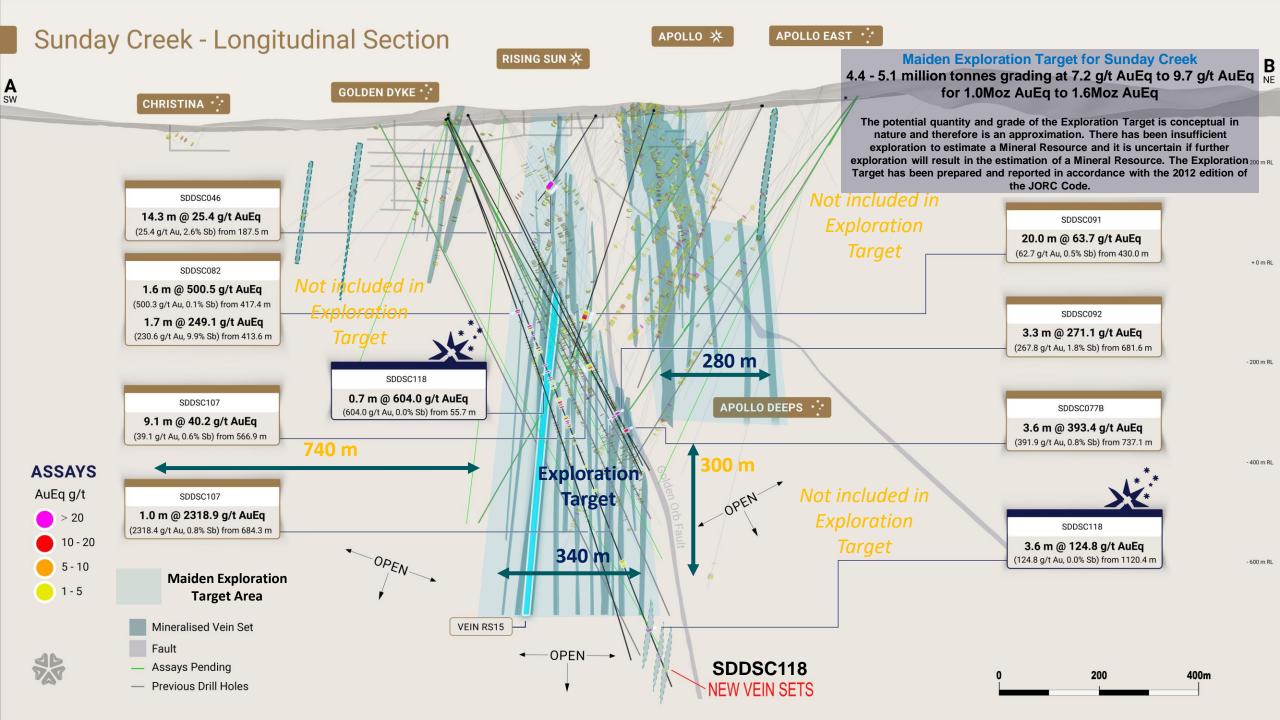


DESCRIPTION:

Regional dextral shear bisects diorite dyke, along with a series of minor late gouge faults that displace the dyke and mineralisation.









Our Exploration Program – Staying on the Lassonde Curve





Drilling plan has 3 clear objectives that will have the largest emphasis over the next six months Demonstrate grade, demonstrate volume,

demonstrate scale



4 diamond drill rigs operating at site

Aim to increase rigs each quarter, 10km per rig p.a., drill cost A\$200/m incl assays



Plan to drill 60 km now to Sept 2025



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