

28th February 2024

ASX Release

EXTENSIVE GOLD-SILVER-LEAD GRADES DELIENATED AT GOLDEN WATTLE AND SCABBEN FLAT PROSPECTS, KEMPFIELD NSW

Extensive mineralisation hosted within barite/volcanic lithologies –remains open in north-south direction

HIGHLIGHTS

- Extensive gold, silver and lead mineralisation confirmed by a rock chip reconnaissance program over the Golden Wattle and Scabben Flat Prospects within the Kempfield Project in NSW.
- **High-grade polymetallic assays up to 73.5 g/t gold, 16.2 g/t silver and 1.84% lead** received, including highlights of:
 - **2.09 g/t Au** in 3000093
 - **73.5 g/t Au (2.36 oz/t)** in 3000094
 - **16.2 g/t Ag, 1.84% Pb** in 3000120
 - **1.52 g/t Ag, 0.10% Pb** in 3000121
 - **3.16 g/t Au, 1.34 g/t Ag, 0.41% Pb** in 3000208
- The Golden Wattle Prospect is located 2.6km east from main Kempfield Deposit (known as Lodes 100 and 300) and 850m north-west of the Mt Dudley Gold Resource. The Golden Wattle **mineralised trend spans over 2,000m strike length within 50m wide zone** – the trend area remains open to the north and south.
- Golden Wattle area has no modern exploration or drilling beneath the old workings.

Argent Minerals Limited (ASX: **ARD**) (“**Argent**” or “**the Company**”) is pleased to announce assay results from a recent rock chip sampling programme over the Golden Wattle and Scabben Flat which provides further confirmation of outcropping gold-silver-lead mineralisation outside the defined Resource at its 100%-owned Kempfield Polymetallic Au-Ag-Pb-Zn Project in NSW.

Argent Managing Director Mr Pedro Kastellorizos commented:

“We are excited to have further positive results associated with strong gold-silver-lead assays from the rock chip sampling reconnaissance program at Golden Wattle and Scabben Flat Prospect areas. The high-grade rock chips are hosted within metasedimentary and volcanic rocks over the Golden Wattle/Scabben Flat zone area which lies approximately 2.8km east from the current Kempfield Deposit”.

“The Au-Ag-Pb mineralisation now extends over 2,000m in length by 50m in width based on the 2024 geochemical assay results. Based on the surging gold prices, the aim is to discover and delineate deposits containing more than 100,000 ounces of gold. These deposits can be potentially valuable feedstock for the future processing plant at the Kempfield Polymetallic Project”.

Golden Wattle Prospect Area

Argent Minerals recently commenced a geochemical reconnaissance program (see ASX announcement: 22nd January 2024) to test the Henry’s mineralised trend as a possible parallel VMS deposit as Kempfield resource based on extensive mapped historical shallow workings. Argent Minerals currently is exploring for shallow orogenic, structurally controlled, quartz vein hosted gold deposits, in the vicinity of the Kempfield polymetallic

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VHMS deposit. This area represents shallow orogenic gold exploration target based on the lateral extent of the of historical workings along with the current delineated Au-Ag-Pb assay results.



Figure 1 – Vertical shaft/stopes.
Located at 710894E, 6259083N.



Figure 2 – Vertical shaft/stopes.
Located at 711647E, 6258732N.



Figure 3 – Gold-Silver-Lead mineralisation within ferruginous quartz-schist yielding **16.2 g/t Ag, **1.84% Pb** from sample 3000120**



Figure 4 – High-grade gold mineralisation within ferruginous quartz yielding **73.5 g/t from sample 3000094**

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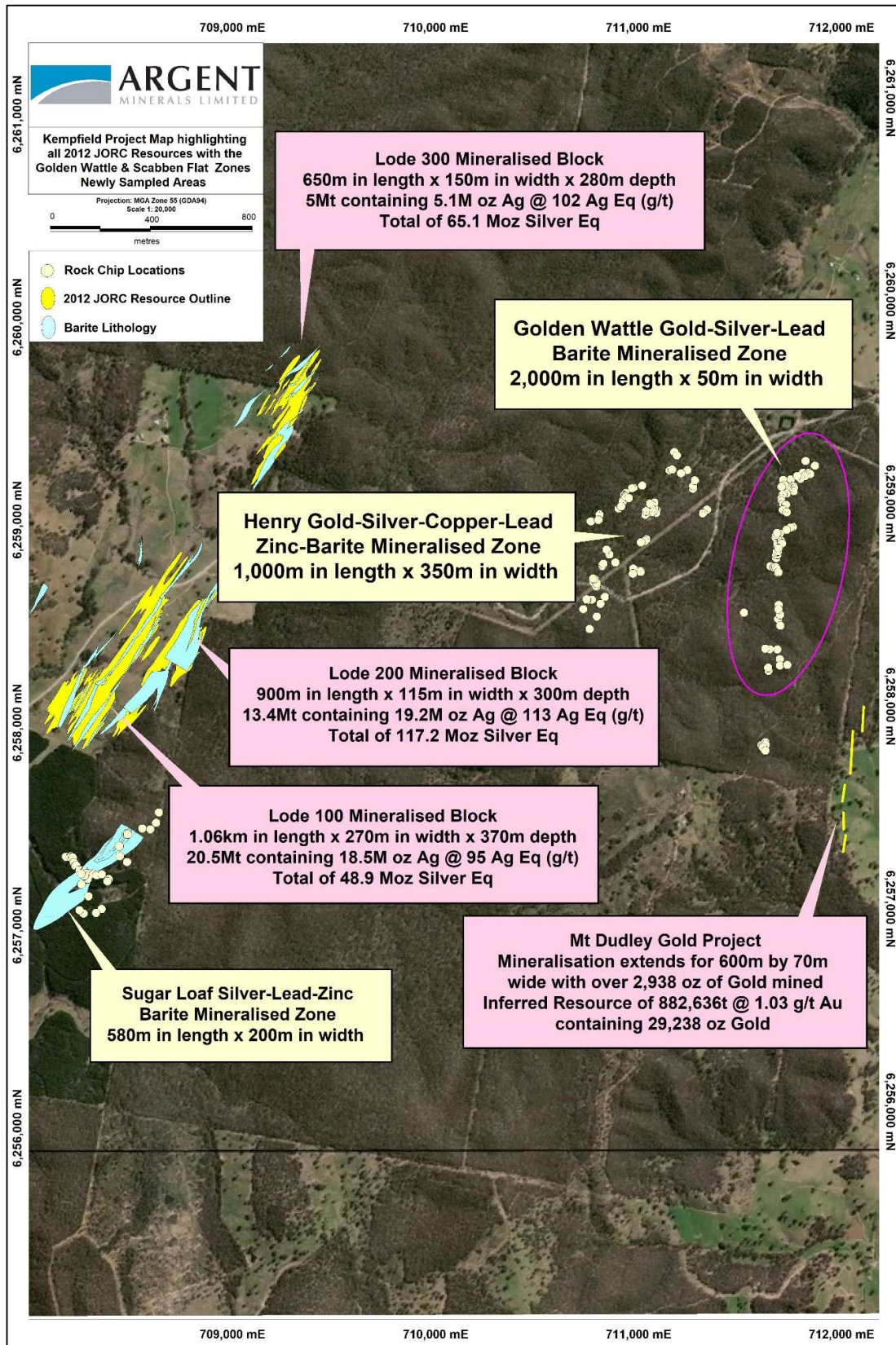


Figure 5 – Sugar Loaf Prospect Location Map showing newly defined area outside known Mineral Resource Area

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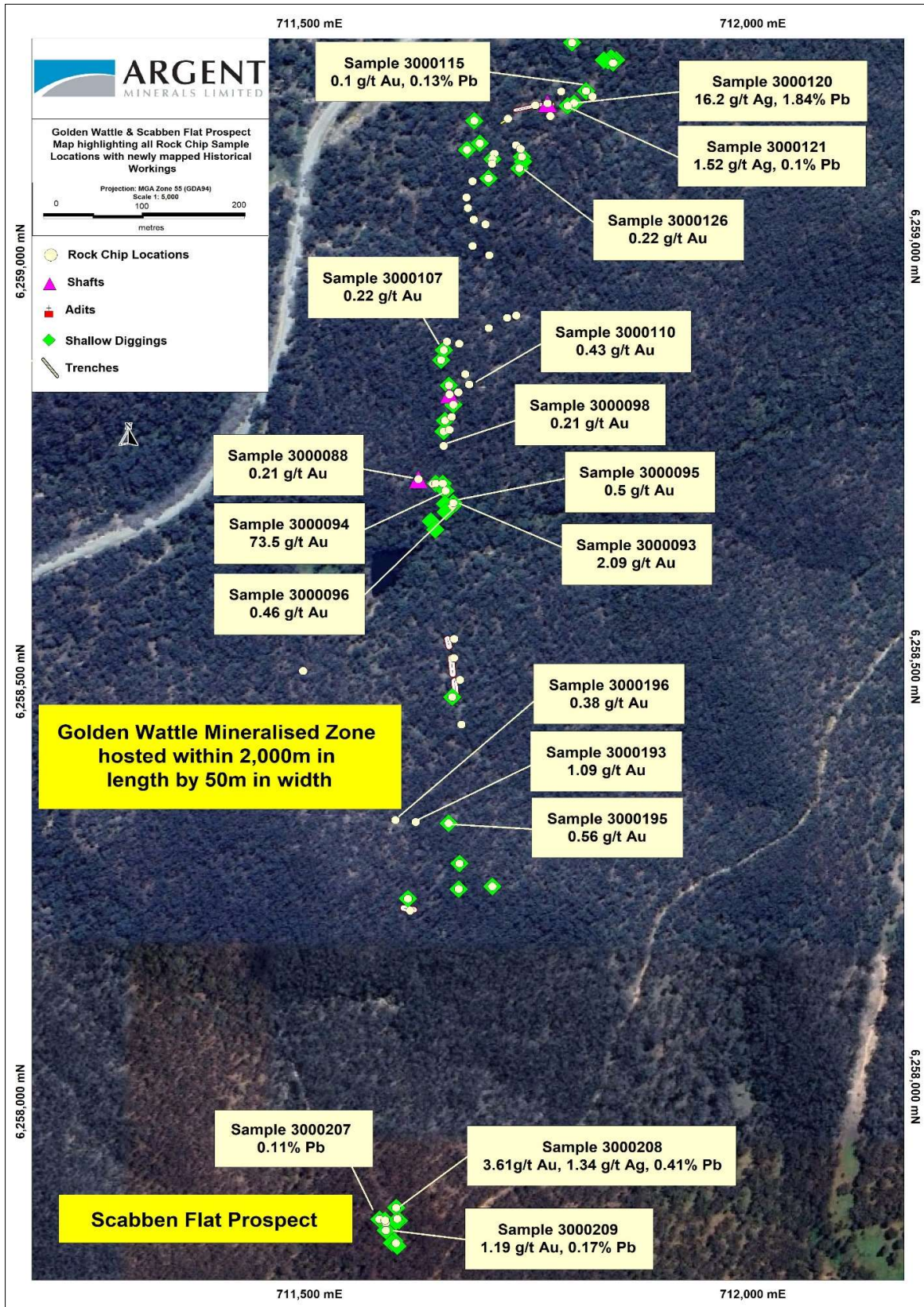


Figure 6 – Henry Zone Location summary map highlighting high-grade rock chip results

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The Golden Wattle mineralised trend is approximately located 2.8km east of the Kempfield defined resource area and approximately 850m NW of the Mt Dudley Gold Deposit. Over 38 historical workings orientated in a north-south direction have been located during the reconnaissance program. Historically there is very little information over this area but from the volume of working mapped there is strong evidence to support significant tonnage was mined during the 1890's. Rock chip samples collected over shallow workings yielded **73.5 g/t Au, 16.2 g/t Ag and 1.84% Pb.**



Figure 7 – Shallow workings from Golden Wattle Trend

The Scabben Flat Prospect area is located about 500m west of the Mt Dudley mine and approximately 1 km to the north of Golden Wattle. The Mt Dudley mine was worked between 1913-1922 and 1928-1931. The current 2012 JORC Resource is **882,636t @ 1.03 g/t Au** containing **29,238 oz Gold** (ASX Announcement 13 September 2022)

The Scabben Flat workings comprise of three shafts and a number of pits and trenches over a strike length of 200m and a width of 100m. The workings hosted within quartz - sulphide veins and associated breccia within shear zones in variably silicified and sericitised slate and phyllite. The shafts have been sunk on the western side of the area on two main veins trending 025° and 005°.

To the east, a number of pits and trenches are located on parallel shears. The extent of shearing, alteration and veining indicates significant tonnage potential but remains poorly tested. A rock chip sample 3000208 collected over shallow workings yielded **3.61 g/t Au, 1.34 g/t Ag and 0.41% Pb.**



Figure 8 – Shallow workings from Scabben Flat area
Located at 711578E, 6257848N.



Figure 9 – High-grade gold mineralisation within
ferruginous quartz yielding **3.61 g/t 1.34 g/t Ag,**
0.41% Pb from sample 3000208.

Full rock chip sampling descriptions and assay results are located in Table 1.

TABLE 1- Rock Chip Assay Results – Golden Wattle Prospect									
Prospect	Sample Id	Easting (GDA94)	Northing (GDA94)	Au g/t	Ag g/t	Pb ppm	Sb ppm	Ba ppm	Lithological Description
Golden Wattle	3000087	711615	6258732	0.01	0.08	24.4	14.3	390	Shaft mullock sample siltstone with rusty quartz
Golden Wattle	3000088	711615	6258732	0.21	0.06	13.1	34.6	700	Shaft mullock sample yellow brown siltstone
Golden Wattle	3000089	711631	6258726	0.68	0.33	42.2	74	720	Mullock sample siltstone with quartz
Golden Wattle	3000090	711635	6258727	0.24	0.06	28.2	73.8	370	Shaft 2, ferruginous quartz
Golden Wattle	3000091	711635	6258727	0.35	0.22	12.4	58	500	Same shaft 2, ferruginous siltstone
Golden Wattle	3000092	711642	6258727	0.24	0.08	12	83.5	270	Shaft 3, yellow brown ferruginous siltstone with quartz
Golden Wattle	3000093	711645	6258718	2.09	0.33	89.3	138	550	Shaft 4, yellow brown siltstone with quartz
Golden Wattle	3000094	711645	6258718	73.5	0.92	156.5	222	230	Shaft 4, ferruginous quartz
Golden Wattle	3000095	711653	6258700	0.5	0.16	72	93.8	100	Shaft 6, reddish quartz breccia
Golden Wattle	3000096	711653	6258700	0.46	0.13	94.2	147	1100	Shaft 6, yellow brown wall rock
Golden Wattle	3000097	711654	6258704	0.34	0.19	121	180	320	Shaft 7 ferruginous quartz
Golden Wattle	3000098	711643	6258772	0.21	0.05	20	33.5	1910	yellow brown ferruginous siltstone
Golden Wattle	3000099	711643	6258772	0.09	0.05	36.6	38.1	780	reddish siltstone
Golden Wattle	3000100	711643	6258789	0.03	0.11	14.5	10.65	530	Small digging, yellow brown siltstone
Golden Wattle	3000101	711650	6258791	0.07	0.07	47.1	23.9	890	Ferruginous siltstone with sulphide casts

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Prospect	Sample Id	Easting (GDA94)	Northing (GDA94)	Au g/t	Ag g/t	Pb ppm	Sb ppm	Ba ppm	Lithological Description
Golden Wattle	3000102	711645	6258802	0.16	0.09	20.7	106	1200	Small digging, ferruginous siltstone
Golden Wattle	3000103	711652	6258806	0.12	0.04	28.7	15.05	750	Ferruginous reddish siltstone
Golden Wattle	3000104	711650	6258833	0.43	0.08	19.6	138.5	1030	20-30m shaft, reddish ferruginous siltstone
Golden Wattle	3000105	711660	6258836	0.06	2.24	17.6	65.5	590	Yellow brown siltstone with sulphide casts
Golden Wattle	3000106	711649	6258844	0.59	0.08	7.5	53.1	1450	Digging, siltstone with numerous sulphide casts
Golden Wattle	3000107	711640	6258874	0.22	0.28	508	102.5	180	Digging bucky quartz
Golden Wattle	3000108	711668	6258857	0.05	0.24	22	16.2	4460	Ferruginous siltstone with sulphide casts
Golden Wattle	3000109	711672	6258845	0.04	0.24	231	11	670	ferruginous siltstone with quartz
Golden Wattle	3000110	711655	6258821	0.43	0.81	25	18.3	400	Small digging, numerous sulphide casts in bleached siltstone
Golden Wattle	3000111	711655	6258821	0.16	0.12	228	56.2	670	Small digging, reddish siltstone
Golden Wattle	3000112	711716	6259161	0.02	0.06	828	25.4	760	Stope, ferruginous siltstone
Golden Wattle	3000113	711716	6259161	0.01	0.14	228	18.3	770	Stope, reddish ferruginous siltstone
Golden Wattle	3000114	711761	6259180	0.36	0.27	631	30.1	660	Deep major shaft, reddish yellow brown siltstone with quartz
Golden Wattle	3000115	711776	6259194	0.07	0.18	1320	24.7	740	Yellow brown with quartz
Golden Wattle	3000116	711788	6259252	<0.01	0.01	32.6	2.79	600	Minor digging, ferruginous bleached siltstone
Golden Wattle	3000117	711834	6259228	<0.01	0.05	13.5	1.42	260	Cluster of small diggings bleached ferruginous siltstone
Golden Wattle	3000118	711804	6259194	0.01	0.08	98.2	16.1	860	Small digging, ferruginous siltstone with quartz breccia
Golden Wattle	3000119	711811	6259188	0.01	0.63	57.9	77.1	>10000	Ferruginous siltstone with sulphide casts
Golden Wattle	3000120	711791	6259180	0.09	16.2	1.84%	64.6	550	Small digging, yellow brown siltstone with sulphide casts
Golden Wattle	3000121	711783	6259177	0.1	1.52	1005	602	1570	Small digging, dark yellow brown siltstone with sulphide casts
Golden Wattle	3000122	711764	6259164	0.02	0.14	398	41.5	930	Possible stope or trench, ferruginous yellow brown siltstone
Golden Wattle	3000123	711725	6259130	0.01	0.08	43.5	24.5	1820	Trench digging, reddish siltstone
Golden Wattle	3000124	711725	6259130	0.02	0.33	335	13.1	1000	Mid trench reddish yellow brown siltstone
Golden Wattle	3000125	711730	6259125	0.04	0.13	42.5	14	710	End trench reddish yellow brown siltstone
Golden Wattle	3000126	711732	6259116	0.22	0.11	23.9	13.35	670	Large collapsed shaft or digging, yellow brown siltstone with minor quartz
Golden Wattle	3000127	711729	6259102	0.05	0.04	41.9	16.4	740	Large digging, yellow brown siltstone with quartz
Golden Wattle	3000128	711701	6259120	0.04	0.09	60.3	32.7	930	Yellow brown siltstone with minor quartz
Golden Wattle	3000129	711698	6259113	0.01	0.03	22.2	7.71	660	Small digging red ferruginous siltstone
Golden Wattle	3000130	711698	6259108	0.12	0.02	44	22.4	920	outcrop, reddish yellow brown siltstone
Golden Wattle	3000131	711694	6259090	0.01	0.04	9.4	7.84	960	Small digging, reddish yellow brown siltstone
Golden Wattle	3000132	711676	6259087	0.01	0.02	11.5	28.9	420	Heavy haematitic siltstone with quartz
Golden Wattle	3000133	711678	6259159	0.03	0.03	18.4	14.4	290	Small digging, reddish ferruginous siltstone with weak quartz
Golden Wattle	3000134	711684	6259132	0.02	0.04	3	3.51	470	Small shaft, siltstone with quartz

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Golden Wattle	3000135	711670	6259124	<0.01	0.02	12	6.76	690	Small trench digging, yellow brown quartz with siltstone
Golden Wattle	3000136	711669	6259068	0.01	0.05	5.8	7.15	190	Micaeous ferruginous siltstone
Golden Wattle	3000137	711671	6259055	0.03	0.02	17.6	19	1020	Yellow brown siltstone with quartz
Golden Wattle	3000138	711677	6259041	<0.01	0.02	10	3.32	400	Yellow brown ferruginous siltstone with quartz
Golden Wattle	3000139	711690	6259036	<0.01	0.01	1.6	3.37	60	Quartz with minor yellow brown siltstone
Golden Wattle	3000140	711676	6259010	<0.01	0.03	33.1	6.2	560	Outcrop, haematitic reddish yellow brown siltstone
Golden Wattle	3000141	711695	6258999	<0.01	0.05	24.7	3.02	700	Subcrop, reddish bleached siltstone with sulphide casts
Golden Wattle	3000142	711725	6258927	<0.01	0.24	28.9	3.58	870	Outcrop, yellow brown ferruginous siltstone with sulphide casts
Golden Wattle	3000143	711715	6258924	0.05	0.25	88.2	17.45	760	Subcrop, yellow brown ferruginous siltstone with sulphide casts
Golden Wattle	3000144	711694	6258912	0.03	0.17	312	12.35	400	Subcrop, reddish yellow brown ferruginous siltstone with sulphide casts
Golden Wattle	3000145	711661	6258893	0.01	0.09	52.8	5.35	380	Subcrop, yellow brown bleached siltstone with numerous sulphide casts
Golden Wattle	3000146	711644	6258886	0.01	0.04	8.7	11.95	590	Shallow digging, ferruginous bleached siltstone
Golden Wattle	3000147	711647	6258896	<0.01	0.04	8.8	29.9	250	Outcrop, reddish yellow brown ferruginous siltstone with sulphide casts
Golden Wattle	3000148	711747	6259177	0.01	0.15	301	9.05	3860	Trench mullock sample, yellow brown siltstone
Golden Wattle	3000186	711485	6258504	0.01	0.05	15.8	0.56	240	Subcrop sample, ferruginous red siltstone with sulphide casts
Golden Wattle	3000187	711653	6258473	0.05	0.21	56.6	92.6	680	2m shaft near start of trench, ferruginous quartz
Golden Wattle	3000188	711653	6258473	0.03	0.07	73.9	138	560	2m shaft near start of trench, yellow brown siltstone
Golden Wattle	3000189	711662	6258493	0.08	0.35	69.9	27	1350	Subcrop red brown siltstone with sulphide casts
Golden Wattle	3000190	711655	6258542	0.02	0.02	20.3	180.5	730	Shallow trench sample, north end, yellow brown siltstone with quartz
Golden Wattle	3000191	711655	6258519	0.05	0.03	11	96	360	Shallow trench sample, middle, yellow brown siltstone with quartz
Golden Wattle	3000192	711664	6258440	<0.01	0.04	7.4	2.58	560	Subcrop sample, bleached siltstone with sulphide casts
Golden Wattle	3000193	711649	6258323	1.09	0.34	128.5	161.5	1080	2X4X2m shaft/digging, ferruginous reddish yellow brown siltstone with minor sulphide casts
Golden Wattle	3000194	711649	6258323	0.07	0.09	126.5	28.5	2350	2X4X2m shaft/digging, ferruginous yellow brown siltstone with sulphide casts
Golden Wattle	3000195	711649	6258323	0.56	0.75	82.6	55.9	420	2X4X2m shaft/digging, ferruginous quartz
Golden Wattle	3000196	711649	6258323	0.38	0.17	180	65.4	840	2X4X2m shaft/digging, yellow brown siltstone
Golden Wattle	3000197	711612	6258324	0.01	0.98	331	14.35	600	Subcrop sample, red brown limonitic siltstone
Golden Wattle	3000198	711589	6258326	0.01	0.11	34.7	1.38	770	Subcrop sample, yellow brown siltstone with sulphide casts
Golden Wattle	3000199	711606	6258218	0.01	0.14	37.9	8.71	160	Shallow trench sample, yellow brown siliceous siltstone with quartz

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Golden Wattle	3000200	711603	6258232	0.02	0.12	8.6	3	130	Small digging, yellow brown siliceous siltstone with quartz
Golden Wattle	3000201	711661	6258275	<0.01	0.09	18.4	2.23	20	Small digging and trench, ferruginous rusty quartz
Golden Wattle	3000202	711661	6258275	0.01	0.08	16	9.01	350	Small digging and trench, ferruginous wall rock with quartz
Golden Wattle	3000203	711660	6258243	<0.01	0.1	9.4	9.23	1110	3X3X1m shaft, quartz with wall rock
Golden Wattle	3000204	711660	6258243	<0.01	0.05	2.8	1.44	30	3X3X1m shaft, quartz
Golden Wattle	3000205	711698	6258246	<0.01	0.14	80.3	0.67	100	2X2X1m shaft quartz sample
Scabben Flat	3000206	711698	6258246	0.01	0.11	39	1.42	530	2X2X1m shaft yellow brown wall rock sample
Scabben Flat	3000207	711571	6257852	0.02	0.31	1130	18.25	220	Large pit, collapsed shaft, ferruginous quartz with yellow brown wall rock
Scabben Flat	3000208	711578	6257848	3.61	1.34	4100	63.5	4220	Large 3m pit, yellow brown sandstone wall rock with veining
Scabben Flat	3000209	711577	6257851	1.19	0.32	1765	54.8	210	Large 3m pit, ferruginous quartz
Scabben Flat	3000210	711590	6257866	0.03	0.16	47.8	27.2	330	3X3X2m shaft/digging, reddish ferruginous quartz with possible sulphide casts
Scabben Flat	3000211	711590	6257866	0.07	0.13	52.5	74.8	850	3X3X2m shaft/digging, yellow brown wall rock with ferruginous quartz veins
Scabben Flat	3000212	711591	6257852	0.13	0.14	170.5	232	270	Two adjacent small shaft/diggings, ferruginous sandstone with quartz
Scabben Flat	3000213	711578	6257839	0.12	0.1	463	18.15	170	1.5m shaft/digging, red ferruginous sandstone
Scabben Flat	3000214	711590	6257823	0.1	0.08	4.7	19.45	1340	Subcrop between diggings, yellow brown sandstone with ferruginous quartz

This ASX announcement has been authorised for release by the Board of Argent Minerals Limited.

-ENDS-

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Competent Persons Statement

The information in this report that relates to Exploration Targets and Exploration Results is based on information compiled by Pedro Kastellorizos. Mr. Kastellorizos is the Managing Director/CEO of Argent Minerals Limited and is a Member of the AusIMM of whom have sufficient experience relevant to the styles of mineralisation under consideration and to the activity being reported 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. Mr. Kastellorizos has verified the data disclosed in this release and consent to the inclusion in this release of the matters based on the information in the form and context in which it appears.

Forward Statement

This news release contains "forward-looking information" within the meaning of applicable securities laws. Generally, any statements that are not historical facts may contain forward-looking information, and forward looking information can be identified by the use of forward-looking terminology such as "plans", "expects" or "does not expect", "is expected", "budget" "scheduled", "estimates", "forecasts", "intends", "anticipates" or "does not anticipate", or "believes", or variations of such words and phrases or indicates that certain actions, events or results "may", "could", "would", "might" or "will be" taken, "occur" or "be achieved." Forward-looking information is based on certain factors and assumptions management believes to be

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reasonable at the time such statements are made, including but not limited to, continued exploration activities, commodity prices, the estimation of initial and sustaining capital requirements, the estimation of labour costs, the estimation of mineral reserves and resources, assumptions with respect to currency fluctuations, the timing and amount of future exploration and development expenditures, receipt of required regulatory approvals, the availability of necessary financing for the project, permitting and such other assumptions and factors as set out herein.

Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause the actual results, level of activity, performance or achievements of the Company to be materially different from those expressed or implied by such forward-looking information, including but not limited to: risks related to changes in commodity prices; sources and cost of power and water for the Project; the estimation of initial capital requirements; the lack of historical operations; the estimation of labour costs; general global markets and economic conditions; risks associated with exploration of mineral deposits; the estimation of initial targeted mineral resource tonnage and grade for the project; risks associated with uninsurable risks arising during the course of exploration; risks associated with currency fluctuations; environmental risks; competition faced in securing experienced personnel; access to adequate infrastructure to support exploration activities; risks associated with changes in the mining regulatory regime governing the Company and the Project; completion of the environmental assessment process; risks related to regulatory and permitting delays; risks related to potential conflicts of interest; the reliance on key personnel; financing, capitalisation and liquidity risks including the risk that the financing necessary to fund continued exploration and development activities at the project may not be available on satisfactory terms, or at all; the risk of potential dilution through the issuance of additional common shares of the Company; the risk of litigation.

Although the Company has attempted to identify important factors that cause results not to be as anticipated, estimated or intended, there can be no assurance that such forward-looking information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such information. Accordingly, readers should not place undue reliance on forward-looking information. Forward looking information is made as of the date of this announcement and the Company does not undertake to update or revise any forward-looking information this is included herein, except in accordance with applicable securities laws.

References

For further information please refer to previous ASX announcement from Argent Minerals Ltd

ASX Announcement 2008: *Further significant intersections at Kempfield*
 ASX Announcement 2009: *Kempfield BJ Zone drilling continues with promising results.*
 ASX Announcement 2009: *Argent to Drill Gold Targets at Kempfield*
 ASX Announcement 2009: *Significant Results from Kempfield Extension Drilling*
 ASX Announcement 2009: *Drilling Results from Kempfield and West Wyalong*
 ASX Announcement 2010: *Highest recorded silver grades at Kempfield*
 ASX Announcement 2011: *Significant Deep Intersections at Kempfield*
 ASX Announcement 2012: *Resource upgrade – Kempfield Silver Project*
 ASX Announcement 2013: *Exploration Advances for Kempfield Massive Sulphide Targets*
 ASX Announcement 2013: *Resource upgrade – Kempfield Silver Project*
 ASX Announcement 2013: *Conductor Targets Identified at Kempfield Silver Project*
 ASX Announcement 2013: *Sulphides Intercepted at Kempfield Causeway Target*
 ASX Announcement 2013: *Argent Minerals Advances Exploration for Kempfield Massive Sulphide Targets*
 ASX Announcement 2013: *Argent Set to Drill Massive Sulphide Targets – Dec Start 2013*
 ASX Announcement 2014: *Geophysics Breakthrough in Kempfield Lead/Zinc Detection*
 ASX Announcement 2014: *Kempfield Resource Statement Upgraded to JORC 2012 Standard*
 ASX Announcement 2014: *Assays confirm third VMS Len group at Kempfield.*
 ASX Announcement 2015: *IP Survey confirms Large Copper Gold Target at Kempfield*
 ASX Announcement 2015: *Significant Intersections at Kempfield – Including Copper and High-Grade Gold*
 ASX Announcement 2016: *Kempfield Drilling Update*
 ASX Announcement 2016: *High grade Zinc Lead Silver and Gold Added to Kempfield*
 ASX Announcement 2016: *Diamond Drilling Results in Major Breakthrough at Kempfield*
 ASX Announcement 2017: *Significant Ag Pb Zn Intersections*
 ASX Announcement 18 March 2018: *Significant Kempfield Milestone Achieved Separate Commercial Grade Zinc and Lead Concentrates Produced Substantial Boost to Project Economics*
 ASX Announcement 30 March 2018: *Significant Kempfield Resource Update Contained Metal Eq Signal Boost to Economic Potential*
 ASX Announcement 20 April 2022: *Pine Ridge Inferred Resource*
 ASX Announcement 13 September 2022: *Maiden JORC Resource Over Mt Dudley Prospect*
 ASX Announcement 1 February 2023: *High-grade copper confirmed at Gascoyne Copper Project*
 ASX Announcement 1 March 2023: *Extensive New High-Grade Silver-Lead-Zinc at Kempfield*
 ASX Announcement 13 April 2023: *Further Extensive New High-Grade Mineralisation over Kempfield*
 ASX Announcement 6 September 2023: *Updated Mineral Resource Estimate for Kempfield*

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About Argent Minerals Ltd (ASX: ARD)

Argent Minerals Limited is an ASX listed public company focused on creating shareholder wealth through the discovery, extraction, and marketing of precious and base metals. Currently, Argent has over 1,734km² of exploration ground in NSW, 1,038km² in Western Australia and 104km² in Tasmania, totalling 2,876 km² within 3 Australian States.



Kempfield Project EL5645, EL5748 (100% ARD) NSW

The Kempfield Project is located 60km SSW of Cadia Newcrest Gold and Copper Mining Operations in Central West New South Wales, 250 kilometres west of Sydney. This is the Company's flagship project and is registered as a New South Wales State Significant Development Project. Kempfield Silver Deposit Mineral Resource estimate for all categories has been upgraded **38.9Mt @ 102 g/t silver equivalent for 127.5 million ounces Ag Eq**, containing of **42.8Moz silver, 149,200 oz gold, 181,016t lead & 426,900t zinc** (ASX Announcement 6 September 2023: Updated Mineral Resource Estimate for Kempfield).

Trunkey Creek Project EL5748 (100% ARD) NSW

The Trunkey Creek Gold Project is located 5 kms east of the Kempfield in Central West region New South Wales. The Project lies within the Trunkey Creek Mineral Field which extends for 5.5 km by 500 m wide with over 2,900 oz of gold extracted from small scale mining. New IP model has delineated three distinct resistive/chargeable zones. Sub-parallel main quartz reefs are spaced 30m to 50m apart over a strike length of 2 km (ASX Announcement 31 May 2022: New Gold Drill Targets Identified at Trunkey Creek).

Pine Ridge Project EL8213 (100% ARD), NSW

The Project is located in the Central Tablelands in New South Wales approximately 65 kilometres south of the township of Bathurst and 10 km south-west of Trunkey. Gold mining commenced in 1877 and continued sporadically until 1948, producing a total of 6,864t ore with variable gold grades. Current 2012 JORC Resource is **416,887t @ 1.65 g/t Au containing 22,122 oz Gold** (ASX Announcement 20 April 2022: Pine Ridge Inferred Resource)

Mt Dudley Project EL5748 (100% ARD), NSW

The Project is located 5 km northwest of the township of Trunkey, near Blayney NSW. The Mt Dudley mine was worked between 1913-1922 and 1928-1931, with the mine's records indicating an average mined grade of approximately 25 g/t of gold. Current 2012 JORC Resource is **882,636t @ 1.03 g/t Au containing 29,238 oz Gold** (ASX Announcement 13 September 2022: Maiden JORC Resource Over Mt Dudley Prospect)

Copperhead Project (100% ARD), WA

The Copperhead Project is located NE of Carnarvon and SW of Karratha in Western Australia Gascoyne Region. The project is proximal to major REE deposits and is considered Elephant country based on its untapped potential.

Helicopter rock-chip sample program has confirmed the extensive copper mineralisation over the Mount Palgrave Prospect. High-grade stratiform copper assays include 2.42%, 4.14%, 5.92%, 8.8%, 14.96% and 21.1% Cu.

The Project is also considered highly prospective for potential ironstone/carbonatite Rare Earth mineralisation. Over Fifty (50) high priority potential ironstone/carbonatite rare earth targets have been delineated and are currently being assessed (ASX Announcement 1 February 2023: High-grade copper confirmed at Gascoyne Copper Project)



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JORC Code, 2012 Edition – Table 1 report
Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections)

Criteria	JORC Code explanation	Commentary
Sampling techniques	<i>Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling. Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</i> <i>Aspects of the determination of mineralisation that are Material to the Public Report.</i> <i>In cases where ‘industry standard’ work has been done this would be relatively simple (e.g., ‘reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay’). In other cases, more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g., submarine nodules) may warrant disclosure of detailed information.</i>	91 rock chip samples were collected in during the reconnaissance field trip over the Golden Wattle and Scabben Creek Prospect. Rock chip samples representative of outcrops with samples collected from mineralised and non-mineralised rocks. All rock chip samples weight varies from 1 kg to 2 kg based on various outcrops. The rock chip samples collected with the weight varying from 2 kg to 3 kg based on various outcrops. ALS used industry standard method using ME-MS61r 48 element four acid ICP-MS. All samples were collected by geologists on site with samples dispatched to ALS Labs in Orange. Individual samples were bagged in calcio bags and sent to ALS Labs with all samples photographed and documented. Samples completed is appropriate for early-stage exploration.
Drilling techniques	<i>Drill type (e.g., core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (e.g., core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).</i>	N/A – No drilling was undertaken.
Drill sample recovery	<i>Method of recording and assessing core and chip sample recoveries and results assessed. Measures taken to maximise sample recovery and ensure representative nature of the samples.</i> <i>Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.</i>	N/A – No drilling was undertaken.
Logging	<i>Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.</i> <i>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</i> <i>The total length and percentage of the relevant intersections logged.</i>	N/A – No drilling was undertaken. All rock chip samples were logged for a combination of geological and geotechnical attributes in their entirety including as appropriate major & minor lithologies, alteration, vein minerals, vein percentage, sulphide type and percentage, fractures, shears, colour, weathering, hardness, grain size. The Project areas is currently classified as early stage of exploration and no Mineral Resource estimation is applicable.

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Criteria	JORC Code explanation	Commentary
Sub-sampling techniques and sample preparation	<i>If core, whether cut or sawn and whether quarter, half or all core taken.</i> <i>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</i> <i>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</i> <i>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</i> <i>Measures taken to ensure that the sampling is representative of the in-situ material collected, including for instance results for field duplicate/second-half sampling.</i> <i>Whether sample sizes are appropriate to the grain size of the material being sampled.</i>	The rock chip samples were collected from outcrop in the field. No field duplicates for rock chip samples were collected during this sampling exercise and no sub-sampling is needed for compositing.
Quality of assay data and laboratory tests	<i>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</i> <i>For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.</i> <i>Nature of quality control procedures adopted (e.g., standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e., lack of bias) and precision have been established.</i>	ALS Orange will be using ME-MS61r (48 element four acid ICP-MS) + REE assay for Ag, Al, As, Ba, Be, Bi, Ca%, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe%, Ga, Gd, Ge, Hf, Ho, In, K%, La, Li, Lu, Mg%, Mn, Mo, Na%, Nb, Nd, Ni, P, Pb, Pr, Rb, Re, S%, Sb, Sc, Se, Sm, Sn, Sr, Ta, Tb, Te, Th, Ti%, Tl, Tm, U, V, W, Y, Yb, Zn, Zr. Detection limits for the various elements between 0.005 to 0.1. Geochemical Analysis of the rock chip samples conducted by ALS in Orange included drying and pulverising to 85% passing 75um. Four acid ICP-AES (ME-ICP61) was used to assay for Ag (g/t), As (ppm), Cu (ppm), Pb (ppm) and Zn (ppm). Acceptable levels of accuracy for all data referenced in this ASX announcement have been achieved given the purpose of the analysis (first pass exploration).
Verification of sampling and assaying	<i>The verification of significant intersections by either independent or alternative company personnel.</i> <i>The use of twinned holes.</i> <i>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</i> <i>Discuss any adjustment to assay data.</i>	Rock chip samples areas were documented in the field by qualified geologist with photos taken from each site. All samples were collected by GPS and validated through aerial photography. All field data was collected then transferred into a computer database.
Location of data points	<i>Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.</i> <i>Specification of the grid system used.</i> <i>Quality and adequacy of topographic control.</i>	All rock chip locations were recorded with a handheld GPS with +/- 5m accuracy GDA94, Zone 50 was used
Data spacing and distribution	<i>Data spacing for reporting of Exploration Results. Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied. Whether sample</i>	Data spacing and distribution was dependant on the identification of mineralisation observed in outcrops. This was not a systematic rock chip sampling program based on a grid. The locations of the samples are provided in Table 1 and illustrated in Figure 2.

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Criteria	JORC Code explanation	Commentary
	<i>compositing has been applied.</i>	There is insufficient data to determine any economic parameters or mineral resources.
Orientation of data in relation to geological structure	<i>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</i> <i>If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.</i>	Rock chip sampling has been conducted in selective manner targeting copper mineralisation from outcrops. Based on the early stage of exploration, the surface grab sampling across the mineralisation over the ironstones, schists and metasediments from the Kangaloolah Volcanics achieves an unbiased sampling of possible structures.
Sample security	<i>The measures taken to ensure sample security.</i>	Sub-samples will be stored on site prior to being transported to the laboratory for analysis. The sample pulps will be stored at the laboratory and will be returned to the Company and stored in a secure location.
Audits or reviews	<i>The results of any audits or reviews of sampling techniques and data.</i>	No audits or reviews have been undertaken

Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section)

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	<i>Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.</i> <i>The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.</i>	Exploration Licence, Kempfield EL5645 & EL5748, Trunkey Creek, NSW, held by Argent (Kempfield) Pty Ltd (100% interest), a wholly owned subsidiary of Argent Minerals Limited. There are no overriding royalties other than the standard government royalties for the relevant minerals. There are no other material issues affecting the tenements. All granted tenements are in good standing and there are no impediments to operating in the area.
Exploration done by other parties	<i>Acknowledgment and appraisal of exploration by other parties.</i>	Argent Minerals Limited through its wholly owned subsidiary Argent (Kempfield) Pty Ltd is the sole operator of the project. Argent Minerals introduced best industry practice work. Kempfield has been explored for more than forty years by several exploration companies as set out in the below table:

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Criteria	JORC Code explanation	Commentary																		
		<table> <tr> <th>Company</th><th>Period</th><th>Exploration activities</th></tr> <tr> <td>Argent Minerals</td><td>2007-current</td><td>Drilling, surface geochemical sampling, VTEM survey, pole-dipole IP survey, gravity survey, ground EM and down-hole EM survey</td></tr> <tr> <td>Golden Cross</td><td>1996-2007</td><td>Drilling and high resolution airborne magnetic survey</td></tr> <tr> <td>Jones Mining</td><td>1982-1995</td><td>Drilling</td></tr> <tr> <td>Shell</td><td>1979-1982</td><td>Drilling, ground EM survey, dipole-dipole IP survey, and soil sampling</td></tr> <tr> <td>Inco</td><td>1972-1974</td><td>Drilling</td></tr> </table>	Company	Period	Exploration activities	Argent Minerals	2007-current	Drilling, surface geochemical sampling, VTEM survey, pole-dipole IP survey, gravity survey, ground EM and down-hole EM survey	Golden Cross	1996-2007	Drilling and high resolution airborne magnetic survey	Jones Mining	1982-1995	Drilling	Shell	1979-1982	Drilling, ground EM survey, dipole-dipole IP survey, and soil sampling	Inco	1972-1974	Drilling
Company	Period	Exploration activities																		
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Shell	1979-1982	Drilling, ground EM survey, dipole-dipole IP survey, and soil sampling																		
Inco	1972-1974	Drilling																		
Geology	<i>Deposit type, geological setting, and style of mineralisation.</i>	The deposit type is Volcanogenic Massive Sulphide (VMS). The geological setting is Silurian felsic to intermediate volcanics within the intra-arc Hill End Trough in the Lachlan Orogen, Eastern Australia; and Mineralisation is hosted in stratiform and probably barite-rich horizons occurring in what appear to be a series of tight isoclinal folds. Silver, lead, zinc, gold and barite mineralisation is derived from submarine volcanic exhalations associated with the felsic volcanic activity. The geology and mineral assemblage are consistent with a distal facies of a volcanic-hosted base metals sulphide deposit (VHMS).																		
Drill hole Information	<i>A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:</i> <i>o easting and northing of the drill hole collar</i> <i>o elevation or RL (Reduced Level –</i> <i>o elevation above sea level in metres) of the drill hole collar</i> <i>o dip and azimuth of the hole</i> <i>o down hole length and interception depth</i> <i>o hole length.</i> <i>If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.</i>	N/A no drilling undertaken																		
Data aggregation methods	<i>In reporting Exploration Results, weighting averaging techniques,</i>	Not Applicable																		

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Criteria	JORC Code explanation	Commentary
	maximum and/or minimum grade truncations (e.g., cutting of high grades) and cut-off grades are usually Material and should be stated. Where aggregate intercepts incorporate short lengths of high-grade results and longer lengths of low-grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail. The assumptions used for any reporting of metal equivalent values should be clearly stated.	
Relationship between mineralisation widths and intercept lengths	These relationships are particularly important in the reporting of Exploration Results. If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g., 'down hole length, true width not known').	Not Applicable
Diagrams	Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported. These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.	Figure 5 & 6 and Tables 1 have been presented within the announcement outlining locations of rock chip samples sites.
Balanced reporting	Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.	Not Applicable

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Criteria	JORC Code explanation	Commentary
Other substantive exploration data	<i>Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.</i>	Metallurgical, groundwater, and geotechnical studies have not commenced as part of the assessment of the project.
Further work	<i>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling). Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</i>	Further ground reconnaissance mapping and rock chip sampling programme will be implemented.

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