ASX/MEDIA RELEASE



15 June 2016

HIGH GRADE ZINC LEAD SILVER AND GOLD ADDED TO KEMPFIELD

Argent at a glance

ASX-listed mineral resource company focused on the expansion, development, extraction and marketing of its existing base and precious metals discoveries in NSW.

Facts

ASX Code: ARD
Share price (14 June 2016): \$0.029
Shares on issue: 299.6M
Market capitalisation: \$8.69M

Directors and Officers

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Highlights:

- Kempfield diamond drilling completed at 3,167 metres, with assayed intervals exceeding forecast at more than 55% of the total core length
- Emerging gold potential as numerous gold intervals within each of the holes continue to add to the prospectivity highlighted by the spectacular 1m @ 1,065 g/t Au from 97m (AKDD181) intersection with grades of up to 0.7m @ 5.1 g/t Au from 32.3m (hole AKDD185)
- Further investigation underway to determine whether the intersected gold is part of the Kempfield VHMS system, and/or the Trunkey Kings Plains orogenic gold system
- Encouraging base metal intersections of semi-massive sulphides with grades up to 2m @ 11.7% Pb+Zn from 176.4 m (hole AKDD187), pointing to further potential at depth in the north east
- Extensive silver intervals intersected, with grades up to 4 m @ 95 g/t Ag from 325.6 m including 1 m @ 176 g/t Ag from 328.6 m (hole AKDD187)
- Strike and significant depth extensions to known Kempfield mineralisation - JORC 2012 Resource estimate to be reviewed following a detailed update of the Kempfield 3D model with all new assay, stratigraphic, structural, and geochemical data
- Further assay results imminent

Argent Minerals Limited (ASX: ARD, Argent, or the Company) is pleased to report interim results for the completed Kempfield drilling program, as the Company continues to advance its projects in the precious and base metals sectors, featuring gold, silver, lead and zinc.

Argent's immediate focus is to advance its existing gold projects at Kempfield (including Trunkey Creek and the most recent tenement acquisition to the south containing the historic Pine Ridge gold mine) and West Wyalong, as exploration continues to progress the Kempfield project in pursuit of high grade base and precious metal mineralisation.

The Kempfield drilling program has been completed at a total of 12 holes for 3,167 metres (see Figure 12 for a plan view of the drill holes referred to in this announcement).

Encouraging interim assay results have been received for the northern and central areas of the drilling program, with further assays pending.

About the emerging additional gold potential identified at Kempfield

The assay results received to date reveal that drilling intersected a series of gold occurrences within each of the six holes for which assays have been received, checked and reviewed – AKDD182 to AKDD187 inclusive.

Varying grades were intersected (including **0.7m @ 5.1 g/t Au from 32.3m** by hole AKDD185), adding to the growing database of gold occurrences intersected at Kempfield.

Whilst broad disseminated zones of gold and silver mineralisation are consistent with observations of a 'proximal to ore' position in a volcanic-hosted massive sulphide (VHMS) system, further lithogeochemical studies will be completed to define the nature of the gold occurrences and evaluate whether they are part of the VHMS system, and/or part of the Trunkey – Kings Plain orogenic gold system.

Trunkey featured as a gold mining boom town from the late 1860s to the early 1900s, where the gold mining at one time supported a population of approximately 2,500. Government records and media reports indicate the discovery and mining of high grade gold at Trunkey, which was curtailed due to the lack of technology at the time to deal with water ingress. Significant advances have occurred in mining and exploration technology since then, opening up significant potential for Argent.

The gold potential at Kempfield is being investigated further due to the close proximity to the Copperhannia Thrust. Obvious shearing and biotite schist bands observed in the recent drill core have penetrated and remobilised Kempfield mineralisation.

High grade silver, lead and zinc as semi-massive sulphides, and significant depth extensions

AKDD187 was designed to intersect both the eastern and western zones and to provide stratigraphic information in the eastern portion of Kempfield Central, which has seen minimal drilling, and yet to be fully tested.

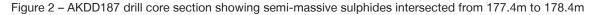
The drillhole intersected 4 distinct lenses with higher grade cores and some of the highest assays received to date, and significant depth extensions to known mineralisation:

- 4.2m @ 3.1% Pb, 4.8 % Zn (7.9% Pb+Zn), 26 g/t Ag and 0.4 g/t Au from 175.2m,
 - including 2m @ 4.5% Pb, 7.2% Zn (11.7% Pb+Zn), 39 g/t Ag and 0.3 g/t Au from 176.4m;
 and
- 4m @ 95 g/t Ag from 325.6m,
 - including 1m @ 176 g/t Ag from 328.6m.

Figure 1 displays an east-west section of the AKDD187 drill hole with adjacent separate assay charts for each of the metals reported in this ASX announcement. Figure 2 shows a section of the AKDD187 drill core where semi-massive sulphides were intersected, and the nature of the observed mineralisation is indicative of a higher temperature gradient in the area, with which higher grades are associated.

West East 3.8m @ 1.8% Pb, 2.8 % Zn (4.6% Pb+Zn), 36 g/t Ag and 0.2 g/t Au from 136.0m 4.2m @ 3.1% Pb, 4.8 % Zn (7.9% Pb+Zn), 26 g/t Ag and 0.4 g/t Au from 175.2m, $2.0m\ @\ 4.5\%\ Pb,\ 7.2\%\ Zn$ (11.7% Pb+Zn), 39 g/t Ag and 0.3 g/t Au from 176.4m (1.4m of semi-massive sulphides intersected from 177.4m) 3.0m @ 0.9 g/t Au 6.9m @ 1.1% Pb, 2.7 % Zn (3.8% Pb+Zn), 27 g/t Ag and 0.1 g/t Au from 198.9m, from 117.2m including: 0.9m @ 1.5% Pb, 3.9% Zn (5.4% Pb+Zn), 41 g/t Ag and 0.1 g/t Au from 201.9m 0.6m @ 1.4 g/t Au 16.4m @ 33 g/t Ag from 318.4m, from 184.4m including: 1.0m @ 0.9 g/t Au 4.0m @ 95 g/t Ag from 325.6m from 208.4m including: 1.0m @ 176 g/t Ag from 328.6m LEGEND Assay chart colour codes Pb & Zn (%) Au (g/t) Cu (%) Ag (g/t) < 0.01 < 0.01 < 0.05 < 1.00 0.01 - 0.05 0.01 - 0.05 0.05 - 0.10 1.00 - 2.00 2.00 - 5.00 0.05 - 0.100.05 - 0.100.10 - 0.500.10 - 0.50 0.10 - 0.20 0.50 - 1.00 5.00 - 10.0 0.20 - 0.50 10.0 - 20.0 0.50 - 1.001.00 - 2.50 > 1.00 > 0.50 > 20.0

Figure 1 – AKDD187 drill hole section with adjacent separate assay charts for each metal series





The sphalerite and galena in the Figure 2 drill core intersection are coarser grained than generally seen in the north part of the Kempfield deposit, indicating a higher temperature gradient in this area and more suitable conditions for sulphide precipitation, which is reflected in the grades and intensity of the observed chlorite alteration.

The high grade silver intersection from 318.4m to 334.8m occurs at the base of a bio-sparite carbonate pile which will be investigated further in forthcoming drill programs.

Figure 3 - AKDD187 drill core tray including intersections of high grade silver



For further assay details please refer to Appendix A – Significant Intersections.

Kempfield North drilling defines a set of steeply dipping lenses with a higher grade core

Kempfield North has been historically considered as a lower priority area. The recently completed drilling program aimed to extend known mineralisation at depth and along strike to expand the mineral resource in the area and boost the economic viability of the greater Kempfield deposit.

Four drillholes were completed in the Kempfield North area, AKDD183 – AKDD186, for a total of 1,000.9m.

The drilling successfully defined a set of discrete lenses at ~5m thickness with a higher grade core steeply dipping to the west. The sulphide and sulphosalt intensity and distribution indicates that the lenses are laterally continuous and stratabound in nature, consistent with observations of analogous VHMS systems.

Broad disseminated zones of gold and silver mineralisation in Kempfield North drillholes are consistent with observations of a 'proximal to ore' position in analogous VHMS systems. Further lithogeochemical work is intended in order to confirm this.

Assay details and observations for the four holes follow in numerical (and drilling) order – AKDD183 and AKDD184 as the northernmost hole pair in this drilling program, with AKDD183 collared in the west, and AKDD184 in the east. These will be followed by assay details and observations for the next hole pair to the south – AKDD185 collared in the east, and AKDD186 collared in the west.

DRILLHOLE AKDD183

Assays received for AKDD183 have confirmed the encouraging visual observations reported to the ASX on 13 April 2016. AKDD183 was designed to test for depth and strike extensions of known Zone 2 mineralisation, and importantly, continuity of mineralisation.

AKDD183 intersected a series of variably mineralised zones throughout the extent of the drillhole. Cleavage and fracture controlled red-brown sphalerite (zinc) and galena (silver, lead) occurs between 46 to 50 metres, which indicates a degree of remobilisation and structural enrichment during a later orogenic phase at Kempfield.

Figure 4 displays the significant intersections correlated with the drillhole section originally presented in the 13 April 2016 announcement.

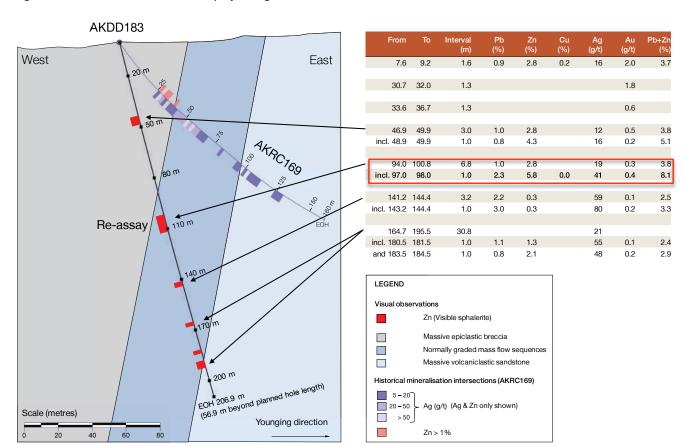


Figure 4 - AKDD183 intersections displayed together with visual observations on west-east section

Figure 5 shows the drill core corresponding to the assays highlighted in the Figure 4 table, where visual observations noted disseminated, stringer sphalerite and galena.

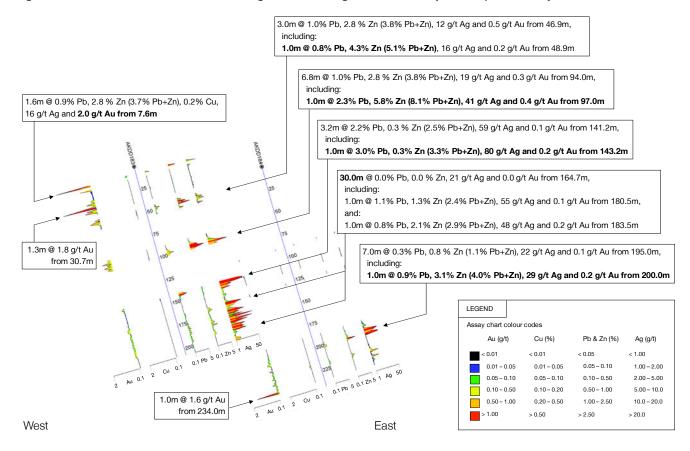
Figure 5 – AKDD183 core including intersection of 1m @ 2.3% Zn, 5.8% Zn (8.1% Pb+Zn), 41 g/t Ag and 0.2 g/t Au from 97.0m



DRILLHOLE AKDD184

Figure 6 displays an east-west section with AKDD184 shown together with AKDD183 according to scale. Each drill hole is shown with adjacent separate assay charts for each of the metals reported in this ASX announcement.

Figure 6 - AKDD183 and AKDD184 shown together according to scale with adjacent separate assay charts for each metal



Elevated base metals are associated with mass flow epiclastic units. This unit provides a target lithology for further drill programs.

Figure 7 - AKDD184 drill core including intersection of 1m @ 4.1% Pb+Zn, 29 g/t Ag and 0.2 g/t Au from 200.0m



DRILLHOLES AKDD185 AND AKDD186

and 219.9 220.9

Continuing to test Zones 1 and 2 at depth, AKDD185 and AKDD186 were collared south of AKDD184 and AKDD183 respectively. Figure 8 shows the drillhole sections together with separate adjacent assay charts for each metal.

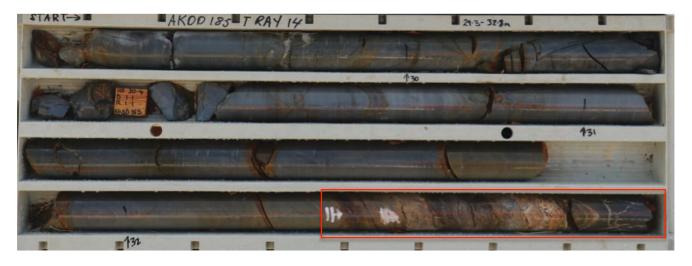
Numerous gold intervals were intersected in both holes, including a noteworthy gold occurrence intersected by AKDD185 – **0.7m @ 5.1 g/t from 32.3m**, hosted within a narrow barite/quartz vein and alteration zone (see Figure 9 for the core photo).

LEGEND 3.0m @ 3.0% Pb, 0.1 % Zn (3.1% Pb+Zn), 0.1% Cu, 27 g/t Ag & 0.3 g/t Au from 220.8m, including: Assay chart colour codes 1.0m @ 4.2% Pb, 0.1% Zn (4.1% Pb+Zn), 0.1% Cu, 45 g/t Ag and 0.6 g/t Au from 200.0m Au (g/t) Cu (%) Pb & Zn (%) Ag (g/t) < 0.01 < 0.01 < 0.05 < 1.00 0.01 - 0.05 0.01 - 0.05 0.05 - 0.10 1.00 - 2.00 0.05 - 0.100.05 - 0.100.10 - 0.502.00 - 5.00 0.10 - 0.500.10 - 0.200.50 - 1.005.00 - 10.0 0.7m @ 5.1 g/t Au from 32.3m 0.50 - 1.000.20 - 0.501.00 - 2.5010.0 - 20.0 > 0.50 > 2.50 > 20.0 1.0m @ 1.6 g/t Au from 36.1m 1.4 0.1 127.0 150.2 incl. 143.4 144.4 156.8 157.8 1.0 0.1 6.0 1.2 1.7 160.2 165.0 0.0 0.2 incl. 162.0 163.0 0.3 171.5 172.5 0.8 1.0 175.5 176.5 1.0 0.8 5 0.1 Zn 5 187.5 189.5 2.0 0.8 0.1 Pb incl. 213.3 214.3 1.0 0.8 3.6 0.1 0.4 4.5 and 214.3 215.3 n a

Figure 8 – AKDD185 and AKDD186 sections with adjacent separate assay charts for each metal

Figure 9 – AKDD185 drill core showing where 0.7m @ 5.1 g/t from 32.3m was intersected, and hosted within a narrow barite/quartz vein and alteration zone

West



East

DRILLHOLE AKDD182

Drilled from the same collar position as hole AKDD181 and at a steeper angle, hole AKDD182 was designed to determine the main trend of gold mineralisation intersected in AKDD181 (1m @ 1,065g/t Au from 97m), and to test a potential footwall position to the Kempfield Central area.

Highly anomalous copper results were coincident with elevated gold and silver values for hole AKDD182.

Most importantly, detailed core logging confirmed the coincidence of stringer pyrrhotite, chalcopyrite and pyrite which is consistent with a footwall position in a VHMS system and potential for associated massive sulphides featuring high grade silver/lead/zinc and, potentially, copper and gold.

This confirmation of a footwall position within a VHMS system is a significant milestone in the pursuit of high base and precious metal grades associated with a feeder zone. Geophysics (eg. magnetic) will be employed next to narrow down prospective feeder zone positions in preparation for further drill testing.

Figure 10 shows a section view of AKDD182 together with the respective assay charts.

Figure 10 - AKDD182 section with adjacent assay charts

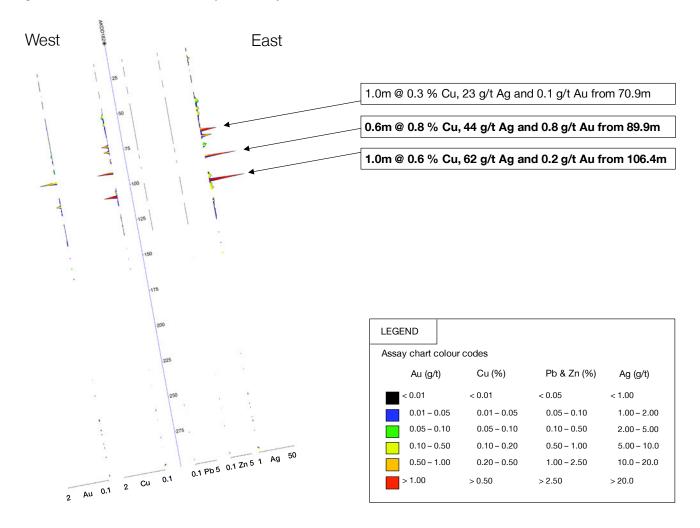


Figure 11 displays a photo of the drill core including where AKDD182 intersected 0.6m @ 0.8 % Cu, 44 g/t Ag and 0.8 g/t Au from 89.9m.

Figure 11 – AKDD182 drill core including intersection of 0.6m @ 0.8 % Cu, 44 g/t Ag and 0.8 g/t Au from 89.9m

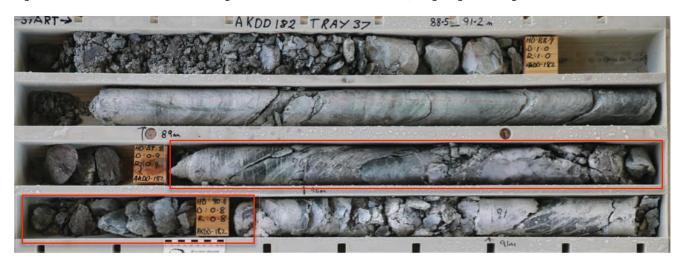
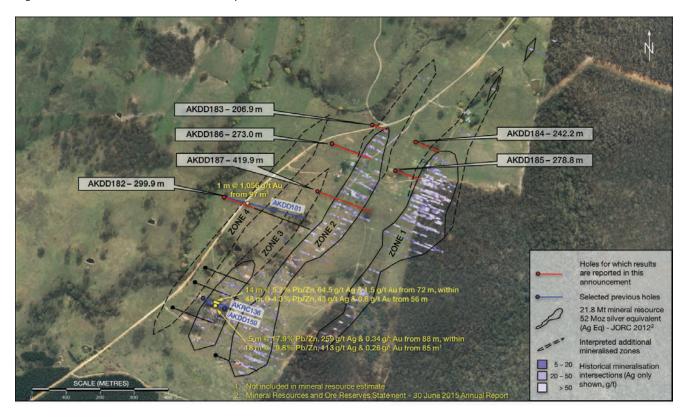


Figure 12 - Plan view of hole locations reported in this announcement - AKDD182 - AKDD187 inclusive



Summary

The interim results for the Kempfield drilling program are very encouraging, with significant outcomes achieved.

High grade base metals have been intersected, with grades up to 2m @ 11.7% Pb+Zn from 176.4m by hole AKDD187. Extensive intervals of silver have also been intersected, including grades as high as 1.0m @ 176 g/t Ag from 328.6m by hole AKDD187.

A key milestone has also been achieved through the confirmation of a footwall position in the Kempfield VHMS system, which is associated with higher base and precious metal grades.

A new mineralisation zone (Zone 4) has been identified, as well as new discrete lenses, significantly increasing Argent's understanding of the Kempfield VHMS system, and key to on-going drill testing for additional mineralisation.

Strike and significant depth extensions to known Kempfield mineralisation have been confirmed, justifying the need for a mineral Resource review following receipt of all assays and a significant update of the Kempfield 3D model over the months ahead with all of the new assay, lithostratigraphic, structural, and geochemistry data.

Numerous gold intervals have also been intersected throughout the drill holes, with grades up to 0.7m @ 5.1 g/t Au from 32.3m by hole AKDD185, adding to the growing database of gold occurrences intersected at Kempfield and the gold prospectivity that was highlighted by the spectacular AKDD181 intersection of 1.0m @ 1,065 g/t Au from 97m.

Further assays are imminent.

Next steps

As Argent continues to study the results of this drilling program, the Company will, in parallel, commence planning of the next stage of drilling at Kempfield. The next stage is expected to include a primary focus of following up the identified VHMS footwall position, and the associated feeder zone potential for high grade base and precious metals.

A key priority is the follow up of the additional gold potential identified at the Kempfield project area. In addition to following up the gold potential within the main Kempfield deposit, the Company will be accelerating plans to test drill the Trunkey area, which falls within the main Kempfield tenement, and owned 100% by Argent.

Argent will also commence mapping and surface geochemical sampling of the EL8213 tenement to the south of Kempfield, which includes the historic Pine Ridge gold mine.

The copper-gold anomalies at the West Wyalong project will also be drill-tested, advancing Argent's 51% interest toward 70%.

This ASX Report must be read in conjunction with Appendix A, and JORC 2012 Table 1 provided in Appendix B.

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APPENDIX A

SUMMARY OF EXPLORATION RESULTS FOR KEMPFIELD DRILLING

Table A - Summary of significant assay results

BHID	Planned BHID	Easting (m)	Northing (m)	RL (m)	Depth ¹ (m)	Azimuth (°)	Dip (°)	Status
AKDD182	Drillhole F	708141	6258403	735	299.9	110	-80	Reported
AKDD183	Drillhole A	708580	6258615	749	206.9	110	-75	Reported
AKDD184	Drillhole B	708706	6258564	759	242.2	110	-75	Reported
AKDD185	Drillhole D	708649	6258481	778	278.8	110	-75	Reported
AKDD186	Drillhole C	708460	6258559	763	273.0	110	-60	Reported
AKDD187	Drillhole E	708417	6258419	758	419.9	110	-60	Reported
								Awaiting
AKDD188	Drillhole K	708118	6257937	762	256.7	110	-60	assay
								Awaiting
AKDD189	Drillhole I	707056	6258152	752	307.2	110	-65	assay
								Awaiting
AKDD190	Drillhole H	708087	6258195	745	307.9	110	-65	assay
AKDD191	Drillhole A	708580	6258615	749	333.6	110	-85	Processing
AKDD192	Drillhole B	708706	6258564	759	249.9	110	-55	Processing

BHID	From (m)	To (m)	Interval (m)	Pb (%)	Zn (%)	Cu (%)	Ag (g/t)	Au (g/t)	Pb+Zn (%)
AKDD182	70.90	71.90	1.0			0.3	23	0.1	
AKDD182	89.90	90.50	0.6			0.8	44	0.8	
AKDD182	106.40	107.40	1.0			0.6	62	0.2	

BHID	From (m)	To (m)	Interval (m)	Pb (%)	Zn (%)	Cu (%)	Ag (g/t)	Au (g/t)	Pb+Zn (%)
AKDD183	7.6	9.2	1.6	0.9	2.8	0.2	16	2.0	3.7
AKDD183	30.7	32.0	1.3					1.8	
AKDD183	33.6	36.7	1.3					0.6	
AKDD183	46.9	49.9	3.0	1.0	2.8		12	0.5	3.8
incl.	48.9	49.9	1.0	8.0	4.3		16	0.2	5.1
AKDD183	94.0	100.8	6.8	1.0	2.8		19	0.3	3.8
incl.	97.0	98.0	1.0	2.3	5.8	0.0	41	0.4	8.1
AKDD183	141.2	144.4	3.2	2.2	0.3		59	0.1	2.5
incl.	143.2	144.4	1.0	3.0	0.3		80	0.2	3.3
AKDD183	164.7	195.5	30.8				21		
incl.	180.5	181.5	1.0	1.1	1.3		55	0.1	2.4
incl.	183.5	184.5	1.0	0.8	2.1		48	0.2	2.9

BHID	From (m)	To (m)	Interval (m)	Pb (%)	Zn (%)	Cu (%)	Ag (g/t)	Au (g/t)	Pb+Zn (%)
AKDD184	195	202	7	0.3	0.8		22	0.1	1.1
incl.	200.0	201.0	1.0	0.9	3.1		29.0	0.2	4.0
AKDD184	234.0	235.0	1.0					1.6	

BHID	From (m)	To (m)	Interval (m)	Pb (%)	Zn (%)	Cu (%)	Ag (g/t)	Au (g/t)	Pb+Zn (%)
AKDD185	32.30	33.00	0.7					5.1	
AKDD185	36.10	37.10	1.0					1.6	
AKDD185	220.8	223.8	3.0	3.0	0.1	0.1	27	0.3	3.1
incl.	220.8	221.8	1.0	4.2	0.1	0.1	45.0	0.6	4.3

	From		Interval						Pb+Zn
BHID	(m)	To (m)	(m)	Pb (%)	Zn (%)	Cu (%)	Ag (g/t)	Au (g/t)	(%)
AKDD186	86.8	87.8	1.0			0.0	39	1.4	
AKDD186	87.8	88.8	1.0			0.0	22	0.1	
AKDD186	127.0	150.2	23.2					0.4	
incl.	143.4	144.4	1.0					2.7	
AKDD186	156.8	157.8	1.0	0.2	1.5	0.1	6	1.2	1.7
AKDD186	160.2	165.0	4.8	0.7	2.0	0.0	16	0.2	2.7
incl.	162.0	163.0	1.0	2.5	2.2	0.0	53	0.3	4.7
AKDD186	171.5	172.5	1.0					0.8	
AKDD186	175.5	176.5	2.0					0.8	
AKDD186	187.5	189.5	2.0					0.8	
AKDD186	213.3	220.9	7.6	0.5	2.4	0.0	9	0.2	2.9
incl.	213.3	214.3	1.0	0.8	3.6	0.1	7	0.4	4.5
incl.	214.3	215.3	1.0	0.8	7.1	0.0	8	0.2	7.9
incl.	219.9	220.9	1.0	1.0	3.2	0.0	27	0.1	4.2

	From		Interval						Pb+Zn
BHID	(m)	To (m)	(m)	Pb (%)	Zn (%)	Cu (%)	Ag (g/t)	Au (g/t)	(%)
AKDD187	13.0	14.0	1.0				17	0.4	
AKDD187	107.9	108.9	1.0	1.1	2.1	0.1	32	0.3	3.3
AKDD187	117.2	120.2	3.0					0.9	
AKDD187	136.0	139.8	3.8	1.8	2.8	0.0	36	0.2	4.6
AKDD187	165.0	173.0	8.0	0.7	2.2	0.0	15	0.1	3.0
incl.	168.6	169.5	0.9	1.5	5.0	0.1	32	0.3	6.5
AKDD187	175.2	179.4	4.2	3.1	4.8	0.0	26	0.4	7.9
incl.	176.4	178.4	2.0	4.5	7.2	0.0	39	0.3	11.7
AKDD187	184.4	185.0	0.6					1.4	
AKDD187	187.0	188.0	1.0					0.8	
AKDD187	198.9	205.8	6.9	1.1	2.7	0.0	27	0.1	3.8
incl.	201.9	202.8	0.9	1.5	3.9	0.0	41	0.1	5.4
AKDD187	208.4	209.4	1.0				10	0.9	
AKDD187	212.4	213.4	1.0					0.8	
AKDD187	318.4	334.8	16.4				33		
incl.	325.6	329.6	4.0				95		
incl.	328.6	329.6	1.0				176		

Notes:

- 1. 'Depth' in this Appendix A means 'End of Hole' (EOH abbreviation)
- 2. Easting and Northing coordinates are all referenced to Geodetic Datum of Australia 94 (GDA94), Map Grid of Australia (MGA) projection, Zone 55
- 3. All holes were commenced with PQ3 drill width to firm material (approximately 20 metres), then continued to end of hole with HQ3 width

APPENDIX B - JORC 2012 EDITION TABLE 1

KEMPFIELD DRILLING PROGRAM ASSAY RESULTS

The following information follows the requirements of JORC 2012 Table 1 Sections 1, 2 and as applicable for this ASX announcement.

Section 1 - Sampling Techniques and Data

Criteria	Commentary
Sampling techniques	Drillholes were sampled based on observed mineralisation or intensity of alteration. Six holes were drilled on four ESE sections. PQ ¼ core, and HQ ½ core was used for sample submittal. Samples were constrained to >0.6m or <1.4m interval lengths with an average sample length of 1m. A minimal amount of samples were taken with interval lengths <0.6m due to rock condition or stratigraphic constraints. Assay and preparation were carried out by ALS Global in Orange and ALS Global Brisbane. 2-3kg samples were passed through a jaw crusher, riffle split, and pulverised to produce a 250g sample for various analytical methods.
Drilling techniques	Diamond drilling utilized PQ collars and HQ drilling to depth. The drill string was configured with a triple tube 3m barrel and wireline/overshot setup.
Drill sample recovery	Recovery was recorded by the geologist or field geotechnician. Triple tube was permanently employed to maintain core integrity
Logging	Geological logging was conducted to a high standard via graphic and digital logging noting lithology, mineralisation, alteration and structure with associated degrees of intensity. Logging was undertaken using both qualitative and quantitative methods accompanied with wet and dry core photography, and sampling for type section lithogeochemistry. Core was oriented when recovered and logged in full.
Sub-sampling techniques and sample separation	Drillholes were sampled on observed mineralisation or intensity of alteration. PQ core ¼ core, and HQ ½ core was used for sample submittal. Samples were constrained to >0.6m or <1.4m interval lengths with an average sample length of 1m. A minimal amount of samples were taken with interval lengths <0.6m due to rock condition or stratigraphic constraints. Assay and preparation were carried out by ALS Global Orange and ALS Global Brisbane. 2-3kg samples were crushed using a jaw crusher, riffle split, and pulverized to produce a 250g sample for various analytical methods.
Quality of assay data and laboratory tests	Samples were digested with a 4-acid total digest (hydrochloric, perccloric, nitric and hydrofluoric acids) to counteract the ubiquitous presence of barite. Samples were assayed using ICP-AES for: Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Fe, Ga, Ge, Hf, In, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, Re, S, Sb, Sc, Se, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zn, Zr. Samples over detection limit were re-assayed using 4-acid digest with ICP-AES finish. Au was quantified using a 50g charge with fire assay and AAS finish. Any over-limit samples were assayed via dilution.
Verification of sampling and assaying	Argent minerals and ALS Global used independent QAQC assay checks. Argent uses coarse crush, fine crush and pulp duplicates, blanks and 2 types of CRM's inserted at a ratio of 1:10. All drillhole information is stored graphically and digitally in excel format. Assay results span low-level, high-level and ore-grade amounts which have been reported in a homogenized format.
Location of data points	All data used in this report are in: Datum: Geodetic Datum of Australia 94 (GDA94) Projection: Map Grid of Australia (MGA) Zone: Zone 55 Collar positions were recorded by handheld GPS.

	Topographic control was gained using government DTM data with handheld GPS check.
Data spacing and distribution	Six drillholes are being reported herein drilled on ESE sections approximately 100m apart. Drillhole distribution has been designed to test Inferred positions of known mineralisation (80m down-dip spacing). No sample compositing was carried out.
Orientation of data in relation to geological structure	Samples were taken with consideration of stratigraphy and alteration, samples do not straddle geological boundaries. The majority of results are considered as exploration and any predominant orientation is unknown as yet. Existing drilling shows drill intersections are within reasonable estimation as true width. Drillholes were targeted to intersect geology on oblique sections to increase intercept potential.
Sample security	Chain of custody involved graphic and digital sign off sheets onsite, sample transfer protocols onsite, delivery to ALS Global Orange by Argent Minerals staff, and receipt by ALS Global Orange.
Audits or reviews	A walk through inspection of ALS Global Orange facilities was conducted by the Exploration Manager of Argent Minerals and deemed to be satisfactory. A review of assay method was conducted by the Exploration Manager of Argent Minerals and was altered from a partial digest (3-acid), to a total digest (4-acid). Significant amounts of barite cause Ag to precipitate out of solution which is difficult to quantify in a partial digest solution.

Section 2 - Reporting of Exploration Results

Criteria	Commentary								
Mineral tenement and land tenure status	Exploration Licence Kempfield EL5748, Trunkey Creek, NSW held by Argent (Kempfield) Pty. Ltd. (100%), a wholly owned subsidiary of Argent Minerals Limited. There are no overriding royalties other than the standard government royalties for the relevant minerals.								
Status	Heritage items ha was lodged on th only, the Gundun	ve been identified e 29th April 1997 gurra Tribal Cour	o the land which has historically been utilized for pastoral activities don the property. A native title claim (Gundungurra Application #67 covering a large area inclusive of Kempfield. A single counterpartical Aboriginal Corporation, has responded to Argent Minerals dard 'right to negotiate' process, and is the sole registrant.)					
	The Company's E has been approve	•	ce renewal application for the full licence area for a three (3) year to	rm					
Exploration by other parties	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 bee Table 1.2.1.	n explored for mo	ore than forty years by several exploration companies as set out in						
	Table 1.2.1 – Explore	ation history		ļ					
	Company	Period	Exploration activities						
	Argent Minerals	2007-current	Drilling, VTEM survey, pole-dipole IP survey, gravity survey, ground EM and down-hole EM survey	ļ					
	Golden Cross	1996-2007	Drilling and high resolution airborne magnetic survey	ļ					
	Jones Mining	1982-1995	Drilling						
	oonee mining								
	Shell	1979-1982	Drilling, ground EM survey, dipole-dipole IP survey, and soil sampling						

		- Ionioai data i	- 10030II	abic alia	Juitable	7 101 436	, ii i iviii iC	1 al 1 10300	irce estimates.	
Geology	The depos	it type is a v	olcanic I	nosted m	assive s	sulphide	(VHMS)	deposit.		
		gical setting Lachlan Orc				Kangalo	oolah Vo	lcanics w	ithin the intra-arc Hi	III End Trough
	The style o	of mineralisa	tion is st	rata bour	nd barite	e-rich ho	rizons h	osting sil	ver, lead, zinc ± cop	per ± gold.
Drill hole		Planned	Easting	Northing		Depth ¹	Azimut			
Information	BHID	BHID	(m)	(m)	RL (m)	(m)	h (°)	Dip (°)	Status	
	AKDD182	Drillhole F	708141	6258403	735	299.9	110	-80	Reported	
	AKDD183	Drillhole A	708580	6258615	749	206.9	110	-75	Reported	
	AKDD184	Drillhole B	708706	6258564	759	242.2	110	-75 -75	Reported	
	AKDD185 AKDD186	Drillhole D Drillhole C	708649 708460	6258481 6258559	778 763	278.8 273.0	110 110	-75 -60	Reported Reported	
	AKDD187	Drillhole E	708417	6258419	758	419.9	110	-60	Reported	
	AKDD188	Drillhole K	708118	6257937	762	256.7	110	-60	Awaiting assay	
	AKDD189	Drillhole I	707056	6258152	752	307.2	110	-65	Awaiting assay	
	AKDD190	Drillhole H	708087	6258195	745	307.9	110	-65	Awaiting assay	
	AKDD191	Drillhole A	708580	6258615	749	333.6	110	-85	Processing	
	AKDD192	Drillhole B	708706	6258564	759	249.9	110	-55	Processing	
	1. Depth is	hole length	to end	of hole.						
Data	A nominal	cut-off grad	e of 0.19	% Pb, Zn	and Cu	were u	sed, 0.0	1g/t Au a	nd 1g/t Ag.	
aggregation nethods	Significant	intersection	s have b	een lengt	th weigl	nted wh	ere grou	ped resu	Its exceed a single s	
	grade inter	vais use a id	ower cut	-on grade	01 0.5	% PD ar	ia Zn, U.	.2% Cu, ().2g/t Au and 10g/t	Ag.
									1 or more significan are deemed signific	
Relationship between mineralisation widths and intercept									vere targeted towar e reported herein.	ds the ESE,
engths										
	Diagram de	scriptions a	e include	ed in the	Figure (descripti	ons.			
	Cross section	ons were co	mpleted	in Micror	nine an	d assay	results a	are displa	yed using the drillho	ole line graph
	Cross section function with 0.1g/t to 2g bar; Pb – No	ons were con the following the	mpleted ng parar Cu – No with 5.0	in Micror neters: A ormal mo 1% top-cu	mine an u – Nor de with ut filter,	d assay mal mod 5.0% to 3x scale	results a de with 2 p-cut fil factor a	2.5g/t top ter, 15x s and 0.1%	yed using the drillho cut filter, 15x scale cale factor and 0.1° to 5.0% scale bar; r; Ag – Normal mod	factor with % to 2.0% scale Zn – Normal
lengths Diagrams	Cross section function with 0.1g/t to 2g bar; Pb – No	ons were con the following the	mpleted ng parar Cu – No with 5.0 t filter, 3	in Micror neters: A ormal mo % top-cu x scale fa	mine an u – Nor de with ut filter, actor an	d assay mal mod 5.0% to 3x scale d 0.1%	results a de with 2 p-cut fil factor a	2.5g/t top ter, 15x s and 0.1%	cut filter, 15x scale cale factor and 0.1°	factor with % to 2.0% scale Zn – Normal
	Cross section function with 0.1g/t to 2g bar; Pb – Normode with 5 cut filter, 0.5	ons were con the following the	mpleted ng parar Cu – No with 5.0 t filter, 3 or and 1 are repo cant inte	in Micror neters: Al ormal mo % top-cu x scale fa g/t to 50g rted with ersections	mine an u - Nor de with ut filter, ctor an g/t scal a nomi	d assay mal mod 5.0% to 3x scale d 0.1% e bar. nal cut-oeen len	results and with 2 pp-cut file factor and to 5.0% off grade gth weig	2.5g/t top ter, 15x s and 0.1% scale ba e of 0.1% ghted whe	cut filter, 15x scale cale factor and 0.10 to 5.0% scale bar;	factor with % to 2.0% scal Zn – Normal e with 50g/t top e used, 0.01g/t exceed a single
Diagrams Balanced	Cross section function with 0.1g/t to 2g bar; Pb – Normode with 5 cut filter, 0.5 All signification Au and 1g sample. His	ons were con the following the	mpleted ng parar Cu – No with 5.0 t filter, 3 or and 1 are repo cant inter intervals	in Micror neters: Al ormal mo % top-cu x scale fa g/t to 50 rted with ersections use a lov	mine an u – Nor de with ut filter, ctor an g/t scal a nomi s have b	d assay mal mod 5.0% to 3x scale d 0.1% e bar. nal cut-opeen lendoff grad	results and the with 2 pp-cut fill a factor at the factor at the factor at the factor and the factor and the factor at the factor at the factor at the factor and the factor at the factor and the factor at the fac	2.5g/t top ter, 15x s and 0.1% scale ba e of 0.1% ghted whe	cut filter, 15x scale cale factor and 0.16 to 5.0% scale bar; r; Ag – Normal mod Pb, Zn and Cu werere grouped results	factor with % to 2.0% scal Zn – Normal e with 50g/t to e used, 0.01g/ exceed a single

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COMPETENT PERSON STATEMENTS

Previously Released Information

This ASX announcement contains information extracted from the following reports which are available for viewing on the Company's website http://www.argentminerals.com.au:

- 29 April 2015 Extended reach for Kempfield deep diamond drilling program¹;
- 4 September 2015 Annual Report to Shareholders Mineral Resources and Ore Reserves Statement²;
- 22 December 2015 Significant intersections at Kempfield including Cu and Au³; and
- 30 March 2016 Kempfield drill plan strategy begins to deliver results³.
- 13 April 2016 Kempfield update positive drill core visuals³

Competent Person:

- 1. Dr. Vladimir David (only if previous results referred to)
- 2. Arnold van der Heyden
- 3. Clifton Todd McGilvray

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

Exploration Results

The information in this report that relates to Exploration Results is based on information compiled by Mr. Clifton Todd McGilvray who is a member of the Australasian Institute of Mining and Metallurgy, an employee of Argent Minerals, and who has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activities being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting Exploration Results, Mineral Resources and Ore Reserves' (JORC Code). Mr. McGilvray consents to the inclusion in this report of the matters based on the information in the form and context in which it appears.