A\$1360m

A\$185m

8.9



# RAMELIUS RESOURCES LTD (RMS)

# Magnet's bonus gold

Ramelius (RMS) produced 86.5kozs in the June 2020 quarter. Net cash and bullion increased by \$68M across the quarter, to \$161M at 30 June 2020. Costs included the final \$9M Spectrum cash consideration payments.

Hedging at the end of the quarter stood at 247kozs at \$2135/oz; a better position than we had figured. Ramelius delivered into about 45kozs at A\$1890/oz during the quarter, effectively forgoing about \$32M revenue (we had figured \$26M), while placing 10kozs in new forwards.

Total costs, after hedging and SPX payments, rose by about \$25M relative to the March 2020 quarter. The increase is mainly attributable to the return of Edna May to full capacity, with Greenfinch and Marda material movement fully ramped up and the mill back to continuous operation. We presume Edna May's JQ outperformance (25.3kozs vs guidance of 23.5kozs), was driven by tonnes rather than grade, and that total costs will not rise further.

## Spill over into FY2021

Mt Magnet produced 61.2kozs (44kozs guided). As we noted previously, higher than expected ore grades from Eridanus and Shannon are likely responsible for the 40% overcall (undercall?). Production remained strong through to the end of the quarter. No doubt the Company's resource geologists are reviewing the estimates relevant to FY2021, assisted by exposure of the vein orientation in the Eridanus pit. Eridanus and Shannon will continue to feature as major ore sources over the full course of FY2021, with Stellar still to come as a short life pit in the September quarter. For now, RMS has guided 270kozs for FY2021, up from previous guidance of 250kozs, with no further granularity.

### Five year LOMP

Ramelius updated its life of mine plan (LOMP), indicating 260-280kozs expected gold production across FYs 2021-24. Total gold produced in the plan is 1.45Mozs. Forecast AISC are A\$1250-1350/oz across the plan, with \$35-65M additional capital per year, tapering after three years. Capital of \$55-65M is forecast in FY21. Annual exploration expenditure is \$20-30M. The LOMP includes Tampia, Eridanus pit and underground, and Penny. Eridanus underground is included as a starter concept with just 100kozs modelled. All up the LOMP extends beyond our previous modelling and added costs in the FY2022-24 years.

RMS is looking to supersede this LOMP over the next 12 months. Underground mine options at Mt Magnet (Saturn, Mars, Titan, Hill 50, Morning Star as well as extensions to active mines at Eridanus, Stellar and Shannon, are under investigation. The Edna May cutback is also back on the table.

### Maintain Buy

If we plug in RMS guidance and LOMPs into our model we get base case and spot price valuations of 178cps and 206cps respectively, compared to 185 and 204 previously. Having watched several years of delivery above reserves and forecasts, Hartleys suspects general upside, particularly in the evolving Cosmos mine area (Shannon/Eridanus/Stellar). Maintain Buy with a 12 month price target of 240cps.

 Share Price
 \$2.00

 Valuation
 \$1.78

 Price Target (12 month)
 \$2.40

#### **Brief Business Description:**

WA based gold producer and explorer

#### **Hartleys Brief Investment Conclusion**

Profitable producer getting good returns from two WA gold projects. Market appreciation expected with continued good performance.

#### Chairman & MD

Kevin Lines (Non-exec Chairman)

Mark Zeptner (MD)

- fully diluted

Cash + bullion (30 June 20)

p Shareholders

Top Shareholders	
Ruffer LLP	7.4%
Vinva Investment Management	4.7%
Company Address	
Level 1, 130 Royal St	
East Perth, WA, 6005	
Issued Capital	658m
- fully diluted	680m
Market Can	A C 4 2 4 5 mg

Debt (30 June 20)			A\$24n
EV			A\$1154n
EV/Resource oz			A\$286/oz
EV/Reserve oz			A\$230/oz
Prelim. (A\$m)	FY19	FY20e	FY216
Prod (koz Au)	196	232	274
Op Cash Flw (A\$M)	107	222	303
Norm NPAT (A\$M)	18	87	183
CF/Share (cps)	27.5	27.5	37.5
EPS (cps)	10.8	10.8	22.6

Resources (Moz)	4.0
Reserves (Moz)	1.2



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Hartleys has assisted in the completion of part of a capital raising in the past 12 months for Spectrum Metals Limited ("SPX"), for which it has earned gross fees. Hartleys has provided corporate advice within the past 12 months and continues to provide corporate advice to SPX, for which it has earned gross fees and continues to earn fees.

Hartleys acted as Corporate Advisor to Spectrum Metals Limited ("SPX) in relation to the Takeover Bid by Ramelius Resources Limited ("RMS"), for which Hartleys received a fee which was linked to the success of the Takeover Bid. In addition, Hartleys was the beneficial holder of 15 million options in Spectrum for which it has accepted an offer from Ramelius (cash and shares).

# **SUMMARY MODEL**

Ramelius Resources RMS							
Market Information		<b>60.00</b>					Directors
Share price Market Capitalisation		\$2.00 \$1616m					Kevin Lines (Non-exec Mark Zeptner (MD)
Net cash (debt)		\$161m					Michael Bohm (Non-Ex
Issued Capital (F.pd)		808m					David Southam (Non-E
Issued Capital (F.diluted)		817m					Natalia Streltsova (Non
EV		\$1455m					Top Shareholders
Valuation		\$1.78					Ruffer LLP
12 month price target		\$2.40					Vinva Investment Mana
Spot Valuation		\$2.06					Van Eck Associates
Profit & Loss	Unit	Jun 20	Jun 21	Jun 22	Jun 23	Jun 24	Production Summary Underground ore mine
Net Revenue	A\$M	552	713	659	642	612	
Forward sales	A\$M <b>A\$M</b>	-92 <b>-253</b>	-77 <b>-333</b>	-29 <b>-352</b>	- <b>304</b>	0 <b>-272</b>	UG ore grade Open pit ore mined
Total Costs EBITDA		<b>-253</b> 208	-333 303	-352 277	-304 344	<b>-272</b> 340	Open pit ore grade
- margin	A\$M	38%	43%	42%	54%	56%	Mill Throughput
Depreciation/Amort	A\$M	-77	-42	-63	-50	-45	Head grade
EBIT	A\$M	131	261	214	294	296	Gold
Net Interest	A\$M	0	0	0	0	0	AISC
Pre-Tax Profit	A\$M	131	261	214	294	296	
Tax Expense	A\$M	-44	-78	-64	-88	-89	Costs
NPAT	A\$M	87	183	149	206	207	Cost per milled tonne
Abnormal Items	A\$M	_					Total cash costs incl. re
Reported Profit	A\$M	87	183	149	206	207	+ depreciation & amor All in sustaining costs (
Balance Sheet	Unit	Jun 20	Jun 21	Jun 22	Jun 23	Jun 24	
Cash + bullion	A\$M	183	325	449	633	810	Price Assumptions AUDUSD
Other Current Assets	A\$M A\$M	183 44	<b>325</b> 53	<b>449</b> 54	55	56	Gold
Total Current Assets	A\$M	227	378	503	688	866	Gold
Property, Plant & Equip.	A\$M	180	196	172	173	149	I
Investments/expln	A\$M	146	146	146	146	146	Hedging
Deferred tax assets	A\$M	0	0	0	0	0	Hedged sales
Tot Non-Curr. Assets	A\$M	326	342	318	319	295	Hedged price
Total Assets	A\$M	553	720	821	1006	1161	Hedge gain(loss)
Short Term Borrowings	A\$M	0	0	0	0	0	Hedged %
Other	A\$M	82	75	75	59	63	
Total Curr. Liabilities	A\$M A\$M	<b>82</b>	<b>75</b>	<b>75</b>	59	63	Sensitivity Analysis
Contingent consideration Other	A\$M A\$M	12 79	12 79	79	79	79	Bass Cass
Total Non-Curr. Liabil.	A\$M	79 91	79 <b>91</b>	79 <b>79</b>	79 <b>79</b>	79 <b>79</b>	Base Case
Total Liabilities	A\$M	172	167	154	138	142	US Gold price +/-10%
Net Assets	A\$M	380	553	667	869	1019	AUDUSD +/- 10%
O	10.00	100	1	l00	1	h04	Production +/-10%
Cashflow	Unit	Jun 20	Jun 21	Jun 22	Jun 23	Jun 24	Operating Costs +/-109
Operating Cashflow	A\$M	222	303	277	344	340	Unpaid Capital
Income Tax Paid	A\$M	-1	-44	-78	-64	-88	Expiry year
R&D grant	A\$M A\$M	0	0	0	0	0	30-Jun-20 30-Jun-21
Interest & Other Operating Activities	A\$IVI A\$M	221	259	199	279	252	30-Jun-21 30-Jun-22
Operating Activities	Apivi	221	209	199	219	232	Total
Property, Plant & Equip.	A\$M	-105	-59	-39	-51	-21	IUIAI
Exploration	A\$M	-33	-19	-20	-21	-22	Reserves & Resource
Asset sales/acqn	A\$M	-24	0	0	0	0	TOTAL RESOURCE
Investments	A\$M		,	,	,	-	Mt Magnet/Vivien/Pe
Investment Activities	A\$M	-162	-78	-58	-71	-42	Edna May
Borrowings	A\$M	25	-24	0	0	0	INCLUDES TOTAL RE
Equity	A\$M	-6	-16	-16	-24	-32	Mt Magnet open pit+
Financing Activities	A\$M	18	-40	-16	-24	-32	Mt Magnet, Vivien, F
Net Cash Change	A\$M	77	142	124	184	177	Edna May open pit+: Edna May undergrou
		lum 00	lus 04	lus 00	lus 00	lun O4	
Channe		Jun 20 807	Jun 21 808	Jun 22 816	Jun 23 816	Jun 24 816	Hartleys model June ' TOTAL INVENTORY
Shares Ordinary Shares - End	Unit M	007	818	817	817	817	Mt Magnet open pit
Shares Ordinary Shares - End Diluted Shares		826	010				Mt Magnet/Vivien/Pe
Ordinary Shares - End Diluted Shares	M M	826					
Ordinary Shares - End	M		Jun 21	Jun 22	Jun 23	Jun 24	Edna May/Marda/Ta
Ordinary Shares - End Diluted Shares  Ratio Analysis	M M Unit	826 Jun 20	Jun 21				Edna May/Marda/Ta Edna May undergrou
Ordinary Shares - End Diluted Shares  Ratio Analysis  GCFPS	M M	826	Jun 21 37.5	Jun 22 34.3 5.8	42.5	Jun 24 42.1 4.8	Edna May/Marda/Ta Edna May undergrou
Ordinary Shares - End Diluted Shares  Ratio Analysis	M M Unit	826 Jun 20 27.5	Jun 21	34.3		42.1	Edna May/Marda/Ta Edna May undergrou
Ordinary Shares - End Diluted Shares Ratio Analysis GCFPS CFR EPS PER	M M Unit A¢ X A¢ X	826 Jun 20 27.5 7.3	Jun 21 37.5 5.3	34.3 5.8	42.5 4.7	42.1 4.8	Edna May/Marda/Ta Edna May undergrou Share Price Valuation 100% Mt Magnet after 100% Edna May after t
Ordinary Shares - End Diluted Shares  Ratio Analysis  GCFPS  CFR  EPS  PER  DPS	M M Unit A¢ X A¢ X	27.5 7.3 10.8 18.5 1.0	Jun 21 37.5 5.3 22.6	34.3 5.8 18.5	42.5 4.7 25.4	42.1 4.8 25.6	Edna May/Marda/Ta Edna May undergrous Share Price Valuation 100% Mt Magnet after 100% Edna May after t Exploration
Ordinary Shares - End Diluted Shares  Ratio Analysis  GCFPS  CFR  EPS  PER  DPS  Vield	M M Unit A¢ X A¢ X %	27.5 7.3 10.8 18.5	37.5 5.3 22.6 8.9	34.3 5.8 18.5 10.8	42.5 4.7 25.4 7.9	42.1 4.8 25.6 7.8	Edna May/Marda/Ta Edna May undergrous Share Price Valuation 100% Mt Magnet after 100% Edna May after t Exploration Corporate overheads
Ordinary Shares - End Diluted Shares  Ratio Analysis  GCFPS  CFR  EPS  PER  DPS  Yield  Interest Cover	M M Unit A¢ X A¢ X %	27.5 7.3 10.8 18.5 1.0 0.5%	37.5 5.3 22.6 8.9 2.0 na	34.3 5.8 18.5 10.8 2.0 na	42.5 4.7 25.4 7.9 3.0 na	42.1 4.8 25.6 7.8 4.0 na	Edna May/Marda/Ta Edna May undergrou Share Price Valuation 100% Mt Magnet after 100% Edna May after t Exploration Corporate overheads Net cash
Ordinary Shares - End Diluted Shares  Ratio Analysis  GCFPS CFR EPS PER DPS Visid Interest Cover ROCE	M M Unit A¢ X A¢ X % %	826 Jun 20 27.5 7.3 10.8 18.5 1.0 0.5% 40%	37.5 5.3 22.6 8.9 2.0 na -76%	34.3 5.8 18.5 10.8 2.0 na -	42.5 4.7 25.4 7.9 3.0 na -	42.1 4.8 25.6 7.8 4.0 na	Edna May/Marda/Ta Edna May undergro: Share Price Valuation 100% Mt Magnet after 100% Edna May after t Exploration Corporate overheads Net cash Tax benefit
Ordinary Shares - End Diluted Shares  Ratio Analysis  GCFPS  CFR  EPS  PER  DPS  Yield  Interest Cover	M M Unit A¢ X A¢ X %	27.5 7.3 10.8 18.5 1.0 0.5%	37.5 5.3 22.6 8.9 2.0 na	34.3 5.8 18.5 10.8 2.0 na	42.5 4.7 25.4 7.9 3.0 na	42.1 4.8 25.6 7.8 4.0 na	Edna May/Marda/Ta Edna May undergrou Share Price Valuation 100% Mt Magnet after 100% Edna May after t Exploration Corporate overheads Net cash

						Buy
Directors				(	Company Info	ormation
Kevin Lines (Non-exec Chairman) Mark Zeptner (MD)					Level 1, 130	Roval St
Michael Bohm (Non-Exec Director)					East Perth, V +61 8 9	202 1128
David Southam (Non-Exec Director)					+61 8 9	202 1139
Natalia Streltsova (Non-Exec Director) Top Shareholders					eliusresource m shares	s.com.au %
Ruffer LLP					59.8	7.4
Vinva Investment Management Van Eck Associates					38.0 36.4	4.7 4.5
Production Summary Underground ore mined	Unit Mt	Jun 20 0.60	Jun 21 0.69	Jun 22 0,29	Jun 23 0.36	Jun 24 0,26
UG ore grade	g/tAu	6.0	5.2	5.3	2.7	0.0
Open pit ore mined Open pit ore grade	Mt g/tAu	3.31	3.17 1.7	3.17 1.7	2.45 1.7	1.57
Mill Throughput	Mt g/tAu	1.3 4.23	3.86	4.48	3.67	1.6 3.03
Head grade	g/t	1.8	2.4	2.0	2.5	2.9
Gold	(koz)	232	274	264	279	269
AISC	A\$/oz	1,211	1,268	1,356	1,131	1,064
Costs		Jun 20	Jun 21	Jun 22	Jun 23	Jun 24
Cost per milled tonne	\$A/t	55	73	66	72	78
Fotal cash costs incl. royalty + depreciation & amortisation	\$A/oz \$A/oz	990 1320	1088 1241	1182 1421	1005 1183	940 1106
All in sustaining costs (AISC)	A\$/oz	1320	1241	1356	1183	1064
. ,	•					
Price Assumptions AUDUSD	Unit	Jun 20	Jun 21	Jun 22	Jun 23	Jun 24
Gold	US\$/oz	0.66 1567	0.68 1763	0.71 1763	0.74 1690	0.74 1680
Gold	A\$/oz	2382	2601	2492	2299	2273
Hedging	Unit	Jun 20	Jun 21	Jun 22	Jun 23	Jun 24
Hedged sales	kozs	Jun 20 155	128	Jun 22 94	26	Jun 24
Hedged price	A\$/oz	1808	2004	2195	2544	ō
Hedge gain(loss)	A\$/M	-92	-77	-29	6	0
Hedged %		67%	47%	36%	9%	0%
Sensitivity Analysis		Ţ,		E1	(0.1 N.D.) T	
Base Case		,	/aluation 1.78	F	/21 NPAT 182.6	
	Sens	-10%	+10%	Sens	-10%	+10%
JS Gold price +/-10%	20% -18%	1.42 2.10	2.13 1.46	12% -11%	160.7 202.7	204.5 162.5
AUDUSD +/- 10% Production +/-10%	-18% 25%	1.33	2.22	36%	116.8	248.3
Operating Costs +/-10%	31%	1.23	2.33	29%	129.6	235.5
Unpaid Capital Expiry year		No. (M)	<u>\$M</u>	Avg ex.	% ord	
30-Jun-20		2	0.3		0.4%	
			0.3	0.14		
		1	0.0	0.00	0.3%	
30-Jun-22		1 8	0.0 0.0	0.00	0.3% 1.4%	
30-Jun-22		1	0.0	0.00	0.3%	
30-Jun-22 Fotal Reserves & Resources as at June 20	<u>19</u>	1 8 11 Mt	0.0 0.0 <b>0.3</b> g/t Au	0.00 0.00 <b>0.03</b> Koz M	0.3% 1.4% <b>2.1%</b> kt cap/oz	
30-Jun-22 Total Reserves & Resources as at June 20 TOTAL RESOURCE	<u> 19</u>	1 8 11 Mt 65.2	0.0 0.0 0.3 g/t Au 1.9	0.00 0.00 <b>0.03</b> Koz M 4,038	0.3% 1.4% <b>2.1%</b>	
30-Jun-22 Fotal Reserves & Resources as at June 20	<u> 19</u>	1 8 11 Mt	0.0 0.0 <b>0.3</b> g/t Au	0.00 0.00 <b>0.03</b> Koz M	0.3% 1.4% <b>2.1%</b> kt cap/oz	
30-Jun-22 Fotal Reserves & Resources as at June 20 FOTAL RESOURCE Mt Magnet/Vivien/Penny Edna May	<u>19</u>	1 8 11 Mt 65.2 43.6 21.6	0.0 0.0 0.3 g/t Au 1.9 2.1 1.6	0.00 0.00 <b>0.03</b> <b>Koz M</b> <b>4,038</b> 2,936 1,102	0.3% 1.4% <b>2.1%</b> kt cap/oz 40	
30-Jun-22 Total Reserves & Resources as at June 20 TOTAL RESOURCE Mt Magnet/Vivien/Penny Edna May NCLUDES TOTAL RESERVE	<u>19</u>	1 8 11 Mt 65.2 43.6 21.6	0.0 0.0 0.3 g/t Au 1.9 2.1 1.6	0.00 0.00 0.03 Koz M 4,038 2,936 1,102 1,241	0.3% 1.4% <b>2.1%</b> kt cap/oz	
30-Jun-22 Fotal Reserves & Resources as at June 20 FOTAL RESOURCE Mt Magnet/Vivien/Penny Edna May		1 8 11 Mt 65.2 43.6 21.6	0.0 0.0 0.3 g/t Au 1.9 2.1 1.6	0.00 0.00 <b>0.03</b> <b>Koz M</b> <b>4,038</b> 2,936 1,102	0.3% 1.4% <b>2.1%</b> kt cap/oz 40	
30-Jun-22  Total  Geserves & Resources as at June 20  TOTAL RESOURCE  Mt Magnet/Vivien/Penny  Edna May  NCLUDES TOTAL RESERVE  Mt Magnet open pil+stockpile  Mt Magnet, Vivien, Penny undergrou  Edna May open pil+stockpile		1 8 11 Mt 65.2 43.6 21.6 10.0 1.5 6.7	0.0 0.0 0.3 g/t Au 1.9 2.1 1.6 2.1 1.3 8.1	0.00 0.00 0.03 Koz M 4,038 2,936 1,102 1,241 416 385 377	0.3% 1.4% <b>2.1%</b> kt cap/oz 40	
30-Jun-22 fotal  Cosarves & Resources as at June 20 COTAL RESOURCE Mt Magnet/Vivien/Penny Edna May  NCLUDES TOTAL RESERVE Mt Magnet open pit-stockpile Mt Magnet, Vivien, Penny undergrou		1 8 11	0.0 0.0 0.3 g/t Au 1.9 2.1 1.6 2.1 1.3 8.1	0.00 0.00 0.03 Koz M 4,038 2,936 1,102 1,241 416 385	0.3% 1.4% <b>2.1%</b> kt cap/oz 40	
30-Jun-22  Total  Reserves & Resources as at June 20  TOTAL RESOURCE  Mt Magnet/Vivien/Penny Edna May  NCLUDES TOTAL RESERVE  Mt Magnet open pit-stockpile  Mt Magnet, Vivien, Penny undergrou Edna May open pit-stockpile.  Edna May open pit-stockpile.		1 8 11 Mt 65.2 43.6 21.6 10.0 1.5 6.7	0.0 0.0 0.3 g/t Au 1.9 2.1 1.6 2.1 1.3 8.1	0.00 0.00 0.03 <b>Koz M</b> 4,038 2,936 1,102 <b>1,241</b> 416 385 377 63	0.3% 1.4% 2.1% kt cap/oz 40	
30-Jun-22 Total Reserves & Resources as at June 20 TOTAL RESOURCE Mt Magnet/Vivien/Penny Edna May NCLUDES TOTAL RESERVE Mt Magnet open pit-stockpile Mt Magnet, Vivien, Penny undergrou Edna May open pit-stockpile, Edna May open pit-stockpile, Edna May underground. Harrlleys model June '20 TOTAL INVENTORY		1 8 11 Mt 65.2 43.6 21.6 18.6 10.0 1.5 6.7 0.4 Mt 22.2	0.0 0.0 0.3 g/t Au 1.9 2.1 1.6 2.1 1.3 8.1 1.8 4.7	0.00 0.00 0.03 Koz M 4,038 2,936 1,102 1,241 416 385 377 63 Koz M	0.3% 1.4% <b>2.1%</b> kt cap/oz 40	
30-Jun-22 Total Tosserves & Resources as at June 20 TOTAL RESOURCE Mt Magnet/Vivien/Penny Edna May NCLUDES TOTAL RESERVE Mt Magnet Open pit-stockpile Mt Magnet, Vivien, Penny undergrou Edna May underground. Edna May underground. Total Linventory Total Linventory Mt Magnet open pit-stockpile.	nd.	1 8 11	0.0 0.0 0.3 g/t Au 1.9 2.1 1.6 2.1 1.3 8.1 1.8 4.7 g/t Au 2.3 1.6	0.00 0.00 0.03 Koz M 4,038 2,936 1,102 1,241 416 385 377 63 Koz M 1664 457	0.3% 1.4% 2.1% kt cap/oz 40	
30-Jun-22 Total Reserves & Resources as at June 20 TOTAL RESOURCE Mt Magnet/Vivien/Penny Edna May NCLUDES TOTAL RESERVE Mt Magnet, Vivien, Penny undergrou Edna May open pit-stockpile Edna May open pit-stockpile. Edna May underground. Hartleys model June '20 TOTAL INVENTORY Mt Magnet open pit Mt Magnet/Vivien/Penny undergroun	nd.	1 8 111 Mt 65.2 43.6 21.6 10.0 1.5 6.7 0.4 Mt 22.2 8.8 5.0	0.0 0.3 g/t Au 1.9 2.1 1.6 2.1 1.3 8.1 1.8 4.7 g/t Au 2.3 1.6 3.6	0.00 0.00 0.03 Koz M 4,038 2,936 1,102 1,241 416 385 377 63 Koz M 1664 457 576	0.3% 1.4% 2.1% kt cap/oz 40	
30-Jun-22 Total Tosserves & Resources as at June 20 TOTAL RESOURCE Mt Magnet/Vivien/Penny Edna May NCLUDES TOTAL RESERVE Mt Magnet Open pit-stockpile Mt Magnet, Vivien, Penny undergrou Edna May underground. Edna May underground. Total Linventory Total Linventory Mt Magnet open pit-stockpile.	nd.	1 8 11	0.0 0.0 0.3 g/t Au 1.9 2.1 1.6 2.1 1.3 8.1 1.8 4.7 g/t Au 2.3 1.6	0.00 0.00 0.03 Koz M 4,038 2,936 1,102 1,241 416 385 377 63 Koz M 1664 457	0.3% 1.4% 2.1% kt cap/oz 40	
30-Jun-22 Total Reserves & Resources as at June 20 TOTAL RESOURCE Mr Magnet/Viere/Penny Edna May  NCL UDES TOTAL RESERVE Mr Magnet open pit-stockpile Mr Magnet open pit-stockpile Grian May open pit-stockpile, Edna May open pit-stockpile, Edna May underground.  Hartleys model June '20 TOTAL INVENTORY Mr Magnet open pit Mr Magnet open pit Edna May underground	nd.	1 8 8 11	0.0 0.0 0.3 9/t Au 1.9 2.1 1.6 2.1 1.3 8.1 1.8 4.7 9/t Au 2.3 1.6 3.6 2.1	0.00 0.00 0.03 Kcz M 4,038 2,936 1,102 1,241 416 385 377 63 Kcz M 1664 457 576 526	0.3% 1.4% 2.1% kt cap/oz 40	
30-Jun-22 Total Reserves & Resources as at June 20 TOTAL RESOURCE Mit Magnet/Viere/Penny Edna May NCL UDES TOTAL RESERVE Mit Magnet open pit-stockpile Mit Magnet open pit-stockpile Cfina May open pit-stockpile, Edna May underground Hartleys model June '20 TOTAL INVENTORY Mit Magnet open pit Mit Magnet open pit Mit Magnet open pit Mit Magnet open pit Edna May underground Share Price Valuation (NAV) 100% Mit Magnet of NAV	nd.	1 8 11 1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.00 0.00 0.03 Kcz M 4,038 2,936 1,102 1,241 416 385 377 63 Kcz M 1664 457 576 526	0.3% 1.4% 2.1% kt cap/oz 40	
30-Jun-22 Total Reserves & Resources as at June 20 TOTAL RESOURCE Mt Magnet/Vivien/Penny Edna May INCLUDES TOTAL RESERVE Mt Magnet, open pit-stockpile Mt Magnet, Vivien, Penny undergrou Edna May open pit-stockpile. Edna May underground. Hartleys model June '20 TOTAL INVENTORY Mt Magnet open pit Mt Magnet/Vivien/Penny undergroun Edna May Marda/Tampia open pit Edna May Munderground Share Price Valuation (NAV) 100% Mt Magnet after tax 7% DR	nd.	1 8 11 1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.00 0.00 0.03 Kcz M 4,038 2,936 1,102 1,241 416 385 377 63 Kcz M 1664 457 576 526	0.3% 1.4% 2.1% kt cap/oz 40	
30-Jun-22 Total Reserves & Resources as at June 20 TOTAL RESOURCE Mr Magnet/Vivier/Penny Edna May  NCL UDES TOTAL RESERVE Mr Magnet Vivien, Penny undergrou Edna May open pit-stockpile Mr Magnet open pit-stockpile Edna May open pit-stockpile. Edna May underground  Hartleys model June '20 TOTAL INVENTORY Mr Magnet open pit Mr Magnet open pit Mr Magnet open pit Edna May winderground Share Price Valuation (NAV)  100% Mr Magnet after tax 7% DR Exploration	nd.	1 8 11 Mt 65.2 43.6 21.6 18.6 10.0 1.5 6.7 0.4 Mt 22.2 8.8 5.0 7.8 65.7 429 293	0.0 0.0 0.3 9/t Au 1.9 2.1 1.6 2.1 1.3 8.1 1.8 4.7 9/t Au 2.3 1.6 3.6 2.1 5.2 A\$/share 0.81 0.53 0.36	0.00 0.00 0.03 Kcz M 4,038 2,936 1,102 1,241 416 385 377 63 Kcz M 1664 457 576 526	0.3% 1.4% 2.1% kt cap/oz 40	
30-Jun-22 Total Reserves & Resources as at June 20 TOTAL RESOURCE Mt Magnet/Vivien/Penny Edna May INCLUDES TOTAL RESERVE Mt Magnet open pit-stockpile Mt Magnet, Vivien, Penny undergrou Edna May open pit-stockpile. Edna May underground. Hartleys model June '20 TOTAL INVENTORY Mt Magnet open pit Mt Magnet/Vivien/Penny undergroun Edna May underground Edna May underground Edna May underground Share Price Valuation (NAV) 100% Mt Magnet after tax 7% DR Exploration Corporate overheads	nd.	1 8 11 1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.00 0.00 0.03 Kcz M 4,038 2,936 1,102 1,241 416 385 377 63 Kcz M 1664 457 576 526	0.3% 1.4% 2.1% kt cap/oz 40	
30-Jun-22 Total  Reserves & Resources as at June 20 TOTAL RESOURCE  Mt Magnet/Vivien/Penny Edna May  INCLUDES TOTAL RESERVE  Mt Magnet open pit-stockpile Mt Magnet, Vivien, Penny undergrou Edna May open pit-stockpile. Edna May underground Hartleys model June '20 TOTAL INVENTORY  Mt Magnet open pit Mt Magnet/Vivien/Penny undergroun Edna May underground Edna May underground Edna May underground Share Price Valuation (NAV) 100% Edn May after tax 7% DR Exploration Corporate overheads Net cash Tax benefit	nd.	1 8 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9/t Au 1.9 2.1 1.6 2.1 1.3 8.1 1.8 4.7 9/t Au 2.3 1.6 3.6 3.1 5.2 A\$/share 0.81 0.53 0.36 0.00 0.00	0.00 0.00 0.03 Kcz M 4,038 2,936 1,102 1,241 416 385 377 63 Kcz M 1664 457 576 526	0.3% 1.4% 2.1% kt cap/oz 40	
Edna May  INCLUDES TOTAL RESERVE  Mf Magnet open pit-stockpile  Mf Magnet, Vivien, Penny undergrou  Edna May open pit-stockpile.  Edna May underground.  Hartleys model June 20  TOTAL INVENTORY  Mf Magnet open pit  Mf Magnet/Vivien/Penny undergroun  Edna MayMarda/Tampia open pit  Edna MayMarda/Tampia open pit	nd.	1 8 11 Mt 65.2 43.6 21.6 18.6 6.7 0.4 Mt 22.2 8.8 5.0 7.8 65.7 429 293 -45 161	0.0 0.0 0.3 9/t Au 1.9 2.1 1.6 2.1 1.3 8.1 1.8 4.7 9/t Au 2.3 2.1 5.5 2.1 5.5 2.1 5.5 2.1 5.5 2.1 6.6 0.00 0.00 0.00	0.00 0.00 0.03 Kcz M 4,038 2,936 1,102 1,241 416 385 377 63 Kcz M 1664 457 576 526	0.3% 1.4% 2.1% kt cap/oz 40	

# ERIDANUS, SHANNON AND STELLAR

Eridanus, Shannon and Stellar are felsic intrusion associated deposits in the Cosmos mine area. Collectively they are responsible for Mt Magnet/Vivien's revival and achievement of +50kozs in a quarter for the first time under Ramelius management. Based on group guidance, Ramelius reserve models have underestimated the amount of gold produced at each of Eridanus and Shannon. At Eridanus, gold production to March 2020 (74kozs) contained 39% more gold than the initial ore reserve model. At Shannon, the mined grade of the first 94kt mined (beginning December 2019) was 7.2 g/t, above pre-development reserves of 290kt at 5.1 g/t (48kozs). Now these deposits have contributed to a 40% output outperformance at Mt magnet in the June 2020 quarter.

Ramelius will update reserves according to mill-reserve model reconciliation over the next few months. Keep in mind that Ramelius prefers its reserve estimates to be beatable by its mining teams.

- The Stellar pit (reserve of 170kt at 2.7 g/t, 15kozs) is scheduled to be mined in the September 2020 quarter. Stellar's spectacular high grade drill results over a short strike length could easily follow suit with Eridanus and Shannon.
- 2. At Eridanus The Company estimates an ore reserve of 236kozs within a pit to 230m vertical depth (about 1000ozs per vertical metre). Ramelius has scoped the potential for a bulk underground mine beneath the pit based on a 490kozs resource, or 1140 ozs/vm, to 430m maximum vertical depth. Subsequent drilling (203m at 2.2 g/t from 297m down hole, 42m at 6.4 g/t from 249m down hole) has been encouraging.
- 3. In the March 2020 quarter Ramelius drilled 7 broad spaced holes at the Orion prospect, about 600m to the east of Eridanus, targeting the extension of the granodiorite host. The holes returned broad zones of anomalous stockwork and supergene related mineralisation analogous to Eridanus. Results included 7m at 15.2 g/t from 197m down hole and 36m at 2.7 g/t from 12m down hole. Drilling is ongoing.

In the light of the June 2020 production record, Ramelius' returns from the Cosmos area appear to us to have longer to run.

# **EARNINGS CHANGES**

Fig. 1: Earnings changes to Hartleys' model since June 2020.

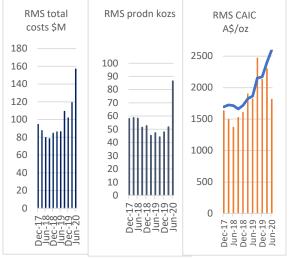
	30 Jun 19	3(	0 Jun 20		30	) Jun 21		30	) Jun 22	
		old	new	% diff	old	new	% diff	old	new	% diff
Hartleys Production (koz)	196	226	232	3%	260	274	5%	296	264	-11%
Implied price received (A\$/oz)	1742	1999	1985	-1%	2306	2321	1%	2394	2382	0%
Total cash costs (A\$/oz)	1197	1019	1090	7%	1073	1216	13%	1020	1334	31%
Net Revenue	341	451	460	2%	599	636	6%	708	630	-11%
Total Cash Costs	-235	-230	-253	10%	-279	-333	19%	-302	-352	17%
EBITDA	107	221	208	-6%	320	303	-5%	407	277	-32%
- margin	30%	41%	38%	-8%	47%	43%	-10%	55%	42%	-23%
Depreciation/Amort	-81	-73	-77	5%	-46	-42	-9%	-57	-63	11%
EBIT	26	148	131	-11%	274	261	-5%	350	214	-39%
Net Interest	0	0	0	n/a	0	0	n/a	0	0	n/a
Pre-Tax Profit	26	148	131	-11%	274	261	-5%	350	214	-39%
Tax Expense	-8	-48	-44	-9%	-82	-78	-4%	-105	-64	-39%
NPAT	18	100	87	-13%	192	183	-5%	244	149	-39%
Abnormal Items	0	0	0	n/a	0	0	n/a	0	0	n/a
Minority	0	0	0	n/a	0	0	n/a	0	0	n/a
Profit Attrib	18	100	87	-13%	192	183	-5%	244	149	-39%
capex + exploration	-67	-128	-138	7%	-106	-78	-27%	-29	-58	101%
Net cash	106	220	183	-17%	386	325	-16%	647	449	-31%
Dividends Per Share	0	1	1		0	2		0	2	

Source: Hartleys Research

# **COST TRENDS**

Fig. 2: Ramelius AISC and CAIC trends September 2017 to June 2020.

		2017			2018				2019	)		2020	j
		SQ	DQ	MQ	JQ	sq	DQ	MQ	JQ	sq	DQ	MQ	JQ
Gold price	A\$/oz	1632	1695	1725	1714	1660	1718	1826	1867	2153	2170	2403	2600
	US\$/oz	1279	1303	1325	1253	1192	1283	1298	1308	1475	1480	1581	1708
Exch rate		0.784	0.780	0.768	0.741	0.722	0.705	0.711	0.701	0.685	0.682	0.658	0.657
RMS													
Production	kozs	33.2	58.0	58.7	58.3	51.4	52.6	45.3	47.3	44.2	47.9	51.8	86.5
Net cash & bullion	\$M	96	62	75	96	102	108	105	107	93	88	93	161
Adjustment	\$M		38								7		
Hedge cost	\$M								4	14	14	25	32
Total costs ex hedging	\$M								83	95	88	95	125
Total costs	\$M		95	88	80	78	85	86	86	109	102	119	157
CAIC	A\$/oz		1631	1493	1369	1526	1610	1901	1823	2470	2130	2302	1814
Cash banked/paid	\$M		4	14	20	7	6	-3	2	-14	2	5	68



Corporate all in costs (CAIC) estimated from net cash change adjusted for dividends paid and equity capital raised.

Adjusted for \$38M acquisition of Edna May in DQ2017, and \$16M for Spectrum cash consideration in MQ2020. Includes Tampia and Marda acquisition cash consideration as CAIC in MQ2019.

Source: Company announcements, Hartleys Research

Fig. 3: Hartleys' forecast Ramelius production and costs.

Production Summary	Unit	Jun 20	Jun 21	Jun 22	Jun 23	Jun 24
Mt Magnet/Vivien/Penny Nth						
Underground ore mined	Mt	0.46	0.47	0.07	0.17	0.26
UG ore grade	g/tAu	6.34	5.27	5.42	0.00	0.00
Open pit ore mined	Mt	2.74	1.57	1.57	1.57	1.57
Open pit ore grade	g/tAu	1.35	1.68	1.60	1.60	1.60
Mill Throughput	Mt	2.00	2.04	1.95	1.84	1.83
Head grade	g/t	2.73	2.51	1.61	2.61	3.22
Met. recovery	%	0.96	0.96	0.96	0.96	0.96
Gold	(koz)	168	158	97	148	182
AISC	(A\$/oz)	1033	1152	1540	1153	1033
Edna May						
Underground ore mined	Mt	0.14	0.22	0.22	0.19	0.00
UG ore grade	g/tAu	4.88	5.20	5.20	5.20	0.00
Open pit ore mined	Mt	0.57	1.60	1.60	0.88	0.00
Open pit ore grade	g/tAu	1.32	1.76	1.76	1.83	0.00
Mill Throughput	Mt	2.23	1.82	2.53	1.83	1.20
Head grade	g/t	0.99	2.17	2.26	2.45	2.50
Met. recovery	%	0.91	0.91	0.91	0.91	0.91
Gold	(koz)	64	116	167	131	88
AISC	(A\$/oz)	1674	1427	1250	1106	1127
Total						
Underground ore mined	Mt	0.60	0.69	0.29	0.36	0.26
UG ore grade	g/tAu	5.99	5.25	5.25	2.71	0.00
Open pit ore mined	Mt	3.31	3.17	3.17	2.45	1.57
Open pit ore grade	g/tAu	1.35	1.72	1.68	1.68	1.60
Mill Throughput	Mt	4.23	3.86	4.48	3.67	3.03
Head grade	g/t	1.81	2.35	1.98	2.53	2.93
Gold	(koz)	232	274	264	279	269
AISC	(A\$/oz)	1211	1268	1356	1131	1064

Costs		Jun 20	Jun 21	Jun 22	Jun 23	Jun 24
Mt Magnet						
Cost per milled tonne	\$A/t	66	72	64	75	83
Total cash costs incl. royalty	\$A/oz	783	1029	1436	1039	926
+ depreciation & amortisation	\$A/oz	977	1170	1673	1176	1065
All in sustaining costs (AISC)	A\$/oz	1033	1152	1540	1153	1033
Total costs	\$M	189	217	136	202	189
All in site cost	A\$/oz	1128	1373	1404	1363	1040
Edna May						
Cost per milled tonne	\$A/t	44	74	68	69	7
Total cash costs incl. royalty	\$A/oz	1529	1169	1035	966	970
+ depreciation & amortisation	\$A/oz	2214	1338	1276	1191	1190
All in sustaining costs (AISC)	A\$/oz	1674	1427	1250	1106	1127
Total costs	\$M	147	164	238	140	94
All in site cost	A\$/oz	2294	1424	1420	1070	1072
Group						
Cost per milled tonne	\$A/t	55	73	66	72	78
Total cash costs incl. royalty	\$A/oz	990	1088	1182	1005	940
+ depreciation & amortisation	\$A/oz	1320	1241	1421	1183	110
All in sustaining costs (AISC)	A\$/oz	1211	1268	1356	1131	1064
CAIC	(A\$M)	391	454	489	440	403
CAIC	(A\$/oz)	1688	1658	1851	1576	1495

Source: Hartleys Research

Hartleys' Ramelius modelling takes into account publicly available information including Ramelius' projected group production profile and production guidance given periodically. Costs are estimated according to information supplied by Ramelius and reconciliation against past accounts.

### PRICE TARGET

The price target is based on a discounted cash flow valuation of the Mt Magnet, Vivien and Edna May operations, an informal estimate of exploration assets value and nominal assessment of Ramelius' other assets and liabilities. Hedging arrangements are valued separately from the mining assets. A real, after tax discount rate of 7% is used in net present value estimations. Hartleys base case commodity and currency forecasts, set out in the summary table, are used to estimate the base case NAV.

For Ramelius our 12 month share price target is based on application of a 1.35x premium the base case NAV. Premiums to NAV can be 'awarded' to gold companies that can demonstrate a relatively low cost structure, low risk balance sheet and can promise at least a 4-5 year mine life. Premiums are not permanent, but currently extend up to 1.8x for the larger producers.

## **RISKS**

Assumption	Risk of not realising assumption	Risk to valuation if assumption is incorrect	Comment
Gold price, currency	High	Industry ave high	Ramelius' forward looking AISC production cost of about A\$1250/oz is close to the Australian industry average, and hedging (30% of 3 yrs) is modest.
Exploration, re-investment	Medium	High	Ramelius may invest most of its cash and future free cash flows in exploration and/or other mineral asset acquisitions. Valuation assumes that future exploration and investments achieve acceptable returns.
Mine performance matches reserve estimates	Medium-low	Low	Ramelius has a very good recent record delivering against reserves.
Costs	Medium	High	Publicly available information has been used in forecasting operating and capital costs. Some cost assumptions are based on incomplete information or informal estimates.
Conclusion			n respect to gold price and currency. Major re-investment and exploration returns.

Source: Hartleys Research

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## **Hartleys Recommendation Categories**

Buy	Share price a	ppreciation	anticipated.
Duy	Office price a	pproduction	armorpatoa.

Accumulate Share price appreciation anticipated but the risk/reward is

not as attractive as a "Buy". Alternatively, for the share price to rise it may be contingent on the outcome of an uncertain or distant event. Analyst will often indicate a

price level at which it may become a "Buy".

Neutral Take no action. Upside & downside risk/reward is evenly

balanced.

Reduce / It is anticipated to be unlikely that there will be gains over

Take profits the investment time horizon but there is a possibility of

some price weakness over that period.

Sell Significant price depreciation anticipated.

No Rating No recommendation.

Speculative Share price could be volatile. While it is anticipated that, Buy on a risk/reward basis, an investment is attractive, there

on a risk/reward basis, an investment is attractive, there is at least one identifiable risk that has a meaningful possibility of occurring, which, if it did occur, could lead to significant share price reduction. Consequently, the

investment is considered high risk.

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Hartleys acted as Corporate Advisor to Spectrum Metals Limited ("SPX) in relation to the Takeover Bid by Ramelius Resources Limited ("RMS"), for which Hartleys received a fee which was linked to the success of the Takeover Bid. In addition, Hartleys was the beneficial holder of 15 million options in Spectrum for which it has received an offer from Ramelius (cash and shares) which it has accepted and is expected to settle in the coming days.

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