

EQUITY RESEARCH

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Buy

Current Price	\$1.6 ⁻
Valuation	\$1.6

Code:			DEG				
Sector:			Materials				
* All figures in AUD unless stated otherwise							
Shares on Issue (M)	:		1,561				
Market Cap (\$M):			2,599				
Net cash (\$M Dec 2	022)		160				
Enterprise value (\$P	v1):		2,534				
52 wk High/Low (ps):	\$1.67	\$0.74				
12m av. daily vol. (N	•		5.27				
Key Metrics							
	FY25e	FY26e	FY27e				
P/E (x)	0.0	0.0	5.5				
EV/EBITDA (x)	-90.5	-90.5	3.5				
Financials:							
	FY25e	FY26e	FY27e				
Revenue (\$M)	0	0	1,347				
EBIT (\$M)	-28	-28	597				
NPAT (A\$M)	-24	-27	472				
Net assets (\$M)	634	46,199	46,564				
Op CF (\$M)	-24	-626	-54				
Per share data:							
EPS (c)	-1.5	-1.7	30.2				
Dividend (cps)	0.0	0.0	0.0				
Yield (%)	-	-	-				
CF/Share (cps)	-1.5	-1.7	39.9				
, 5.101 0 (000)	2.0		00.5				
Prod (koz Au)	0	0	510				

Share Price Graph and trading volumes (msh)



Please refer to important disclosures at the end of the report (from page 6)

Friday, 14 April 2023

De Grey Mining Ltd (DEG)

Best foot forward

John Macdonald

Quick Read

In anticipation of a well-received DFS and De Grey capturing more than its fair share of capital flows into gold equities, we retain a buy recommendation.

Main points

DFS: De Grey expects to complete the Mallina Definitive Feasibility Study in mid 2023.

We expect the market to price in an improved DFS as it arrives and maybe build in a further premium while gold is rising or steady. Based on pricing, expected margins and reserve growth in the gold sector are well below historic averages. As a large, non-depleting, unhedged and clearly commercial gold resource in the ground, we expect Hemi and De Grey to continue to attract patient capital seeking leveraged, long term exposure to gold.

Planning a fully costed, large scale development against a backdrop of rapidly rising base cost and revenue inputs has its challenges. Our database suggests gold industry cost inputs rose about 20% over the course of CY22. We expect an increase in earth movement and ore processing rates above the September 2022 Mallina PFS and increase cost estimates by about 10%, similar to the adjustment made from scoping study to PFS. On our forecasts the rise in the gold price covers cost inflation. Margins above total costs (post capex) are held at 32%; sufficient to reduce the risk of failure due to a mismatch in cost and revenue expectations. We allow for 10% inflation in capex estimates as well.

No takeover: No apparent movement on the M&A front. No data rooms open for potential suitors. De Grey is preparing for Mallina's independent development. An experienced project manager has been appointed. Banks are lining up to participate.

Going alone: Within mining and extractive industries, all successful first asset development precedents tend to be smaller CIL or concentrate flotation projects, compared to the large-scale POx operation proposed at Mallina. The services industry continues to mature so that independent capabilities are much improved, however independent development continues to bear uncertain funding costs that big balance sheet companies can avoid by absorbing market fluctuation and technical risks. Hence any first asset developer's objectives pre-funding must include managing, suppressing or convincingly playing down the technical, execution and funding risks. We think the banks will be willing participants and that, ahead of final funding, De Grey will have best foot forward giving investors opportunity to drive the share price higher.

Recommendation

Our De Grey valuation is up from \$1.40/share to \$1.60/share after gold price changes (A\$2410/oz previous, A\$2643/oz new) partially offset by higher cost assumptions. Our spot price valuation (A\$3010/oz) is \$2.05 per share. On valuation grounds we can still justify a buy recommendation. We expect De Grey to be bid up as the gold price consolidates above US\$2000/oz and gold asset premiums come into play.



Equities Research Analyst: John Macdonald

De Grey Mining

Gold

2676

2643

2643

2643

Recommendation Current Price Valuation	Buy \$1.67 \$1.60						Sector Issued Capital (M: Market Cap (M)	shs)		s & Mining 1,561 \$2,599 April 2023
Profit & loss (\$M) 30 June	2023E	2024E	2025E	2026E	Financial ratios		2026E	2027E	2028E	2029E
Sales Revenue	0	0	0	0	GCFPS	A¢	-1.7	39.9	40.0	34.2
+ Other income/forwards	0	0	0	0	CFR	х	0.0	4.2	4.2	4.9
- Operating costs	0	0	0	0	EPS	A¢	-1.7	30.2	32.2	26.5
- Royalties	0	0	0	0	PER	х	0.0	5.5	5.2	6.3
- Corporate & administration	-28	-28	-28	-28	DPS	A¢	0.0	0.0	0.0	0.0
Total Costs	-28	-28	-28	-28	Yield	%	0.0%	0.0%	0.0%	0.0%
EBITDA	-28	-28	-28	-28	Interest cover	x	-5.1	79.1	100.0	101.5
- margin	0%	0%	0%	0%	ROCE	%	-2%	44%	49%	44%
- D&A	0	0	0	0	ROE	%	-5%	54%	40%	26%
EBIT	-28	-28	-28	-28	Gearing	%	101%	51%	28%	16%
+ Finance Income/Expense	0	0	-2	-6	Geaning	70	101/0	51/0	20/0	10/0
PBT	-28	-28	-30	-34	Operations summary		2026E	2027E	2028E	2029E
	-20	-20	-50	-34	Mallina project		2020L	20271	2028L	20291
- Tax expense	0	0	0	/	Ore processed (Mt)		0.0	10.0	10.0	10.0
 Impairments and other NPAT 	-22	-22	-24	-27			0.00	10.0	1.76	1.67
NPAI	-22	-22	-24	-27	Head grade (g/t)		0.00	0.94	0.94	0.94
Carly (Inc.) (Ch.A)	20225	20245	20255	20205	Met. recovery					
Cash flow (\$M)	2023E	2024E	2025E	2026E	Gold prodn (kozs)		0	510	530	503
+ Revenue	0	0	0	0		<i>6</i> / · · ·	2			~~
- Cash costs	-28	-28	-28	-28	Cost per milled tonne (A		0	55	56	60
- Forwards	0	0	0	0	Cash costs pre royalty (A		0	1140	1159	1298
-Tax payments	0	6	6	7	All in sustaining costs (A	\$/oz)	0	1273	1296	1434
+ Interest & other	0	0	-2	-6	Growth capital (\$M)		618	38	40	7
Operating activities	-28	-22	-24	-27						
 Property, plant, mine devel. 	-42	-40	-550	-626	Valuation summary				A\$M	A\$/sh
- Exploration	-32	-20	-20	-20	Mallina project 6% real a	after tax DR			2168	1.39
Investment activities	-74	-60	-570	-646	Exploration, all sites				325	0.21
+ Borrowings	0	0	400	400	Corporate overheads				-147	-0.09
- Dividends	0	0	0	0	Cash				112	0.07
+ Equity	150	480	0	0	Debt				0	0.00
Financing activities	150	480	400	400	Tax benefit				70	0.04
Cash change	48	398	-194	-273	Hedging				0	0.00
					Option/equity dilution				-37	-0.02
Balance sheet	2023E	2024E	2025E	2026E	NAV				2,491	1.60
Cash & bullion	112	509	316	43						
Other Current Assets	0	0	0	0	Directors, management					
Total current assets	112	509	316	43	Simon Lill				Non-Executive	Chairman
Property, plant & equip.	209	249	799	1425	Glenn Jardine					ng Director
Investments/other	0	0	0	0	Andy Beckwith				-	ve Director
Total non-curr. assets	209	249	799	1425	Peter Hood				Non-Executiv	ve Director
Total assets	321	759	1115	1468	Paul Harvey				Non-Executiv	
Trade payables	13	11	6	41	Emma Scotney				Non-Executiv	
Short term borrowings	0	0	0	120	,					
Other	13	11	75	76						
Total curr. liabilities	26	22	81	117	Top shareholders				M shs	%
Long term borrowings	0	0	400	680	Gold Road Resources				310	19.9
Other	0	0	400	080	Jupiter Investment Man	agement			90	5.8
Total non-curr. liabil.	0	0	400	680	Van Eck Associates	agement			79	5.1
Total liabilities	26	22	400	797	Vall ECK ASSOCIATES				79	5.1
Net assets										
NET 033E13	296	737	634	671	Posourcos lune 122		D <i>4</i>	a/* *···	Kere -	Alet com/on
Sharac	20225	20245	20255	20205	Resources June '22		Mt	g/t Au		Akt cap/oz
Shares	2023E	2024E	2025E	2026E	Mallina gold project		251.0 158.0	1.32	10,635	244
New shs issued/exerciseable	152	301*	3	0	Measured & indicated	1	158.0	1.34	6,808	
Average issue price	0.99	1.59*	0.00	0.00	Inferred		93.0	1.28	3,828	
Ordinary shares - end	1561	1862	1865	1865	Includes probable reser	ves	103.0	1.55	5,133	506
Diluted shares - end	1565	1865	1865	1865						
*Argonaut assumption										
				_	Argonaut model Jun '23		Mt	g/t Au	Kozs	
Price assumptions	2023E	2024E	2025E	2026E	TOTAL INVENTORY		139.0	1.55	6,931	375
AUDUSD	0.677	0.700	0.700	0.700	Hemi open pit		114.0	1.54	5,645	
Gold	1812	1850	1850	1850	Satellite open pit		25.0	1.60	1,286	
Gold	2676	2643	2643	2643						

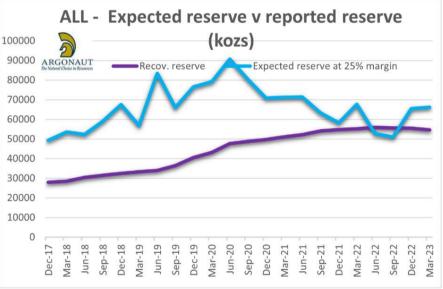


GOLD PREMIUMS

Gold industry premiums collapsed to historic lows in the September and December quarters of 2022. Share prices have since recovered but remain at a low level relative to the ratings and expectations built into the market in the period 2017-2020.

In figure 1, developed, recoverable gold reserves for a group of ASX listed companies is plotted with 25% of the Enterprise Value of those companies, converted to ounces of gold at the prevailing gold price. The use of 25% as a blanket margin approximates the average margin achieved by the best performing companies within the group over 2017-2023. The separation between the lines can be used as a measure of how much additional gold, at any point in time, the market expects the sector to produce.

Fig. 1: Developed, recoverable gold reserves and EV implied reserves at a 25% margin, December 2017-March 2023. Constituents CMM, DCN, EVN, GCY, GOR, NST, PRU, RMS, RED, RRL, RSG, SLR, SBM, WGX, WAF.



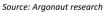
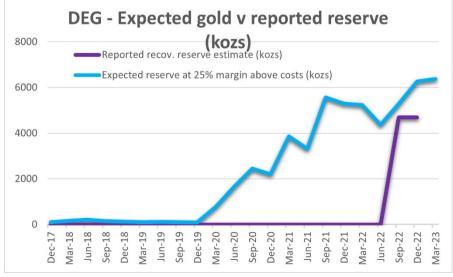


Fig. 2: De Grey recoverable gold reserves and EV implied reserves at a 25% margin, A\$1.1B capital development cost, 2017-March 2023



Source: Argonaut research



COST ENVIRONMENT AND HEMI

Fig. 3: Quarterly Gruyere site costs DQ 2021 to DQ 2022, annualised, with Hemi forecasts. There are intrinsic differences between the operations and their respective cost structures. Increasing cost trends are also evident in other large scale gold mining operations in Western Australia.

	Gruyere	Gruyere	Gruyere	Gruyere	Gruyere	Hemi
	DQ21	MQ22	JQ22	SQ22	DQ22	Sept 2022 PFS
	annualised	annualised	annualised	annualised	annualised	Avg annual
Ore mined Mtpa	12.7	10.5	10.7	8.6	9.9	10.0
Strip ratio w:o	2.38	2.86	2.53	3.32	2.35	6.1
Material movement Mt	43	41	38	37	33	71
Mining cost \$M	197	177	194	217	223	261
Mining cost \$/t material*	4.60	4.34	5.14	5.87	6.76	3.68
Mining cost \$/t ore	15.54	16.75	18.15	25.36	22.64	26.10
Ore processed	8.9	8.6	9.6	8.7	8.5	10.0
Processing cost \$M	173	187	185	204	220	239
Processing cost \$/t ore	19.38	21.81	19.22	23.44	25.77	23.94
Admin cost \$M	28	44	47	29	41	14
Total site cost \$M	398	407	427	451	484	514

*Includes mining (opex), sustaining leases, mining (capex) and other sustaining capital

Source: Argonaut research, Gold Road Resources reports to ASX

VALUATION

Argonaut's De Grey valuation is based on a discounted cash flow valuation of the Mallina project, and an informal estimate of exploration assets value and nominal assessment of De Grey's other assets and liabilities, as at June 2023. Assumptions about Mallina's future development and cash flows are based on De Grey's September 2022 pre-feasibility study, adjusted for cost input changes with differences in timing and price settings. A real, after tax discount rate of 6% is used. Future tax benefits are added back as an estimate of present value. Argonaut's base case commodity and currency forecasts, set out in the summary table, are used to estimate the base case NAV.

Fig. 4: Valuation summary, projected June 2023

Valuation summary	A\$M	A\$/sh
Mallina project 6% real after tax DR	2168	1.39
Exploration, all sites	325	0.21
Corporate overheads	-147	-0.09
Cash	112	0.07
Debt	0	0.00
Tax benefit	70	0.04
Hedging	0	0.00
Option/equity dilution	-37	-0.02
NAV	2,491	1.60

Source: Argonaut research



Key risks to valuation

Mineable inventory

Argonaut's estimates of mineable inventories at Mallina are based on De Grey's prefeasibility study figures, including inferred resources as per De Grey's mine plans.

Metallurgy

De Grey's early tests indicate high rates of recovery using conventional pressure oxidation processes. Other large scale operations with successful operating records use the technologies available to and being considered by De Grey.

Gold price

Our estimates of De Grey cash flows are sensitive to the gold price. Each 10% change in the Australian dollar gold price changes our valuation by 20%.

Costs

Cost assumptions are based on pre feasibility study estimates, adjusted to allow for subsequent changes in industry costs.

Equity dilution

De Grey may seek to finance its activities by issuing new shares. The number of shares and the price at which new shares are issued affect our valuation of the existing shares. We have assumed 300M new shares issued in FY24 at \$1.50 per share.

Exploration success

De Grey may invest its cash and any future free cash flows in exploration and/or other mineral asset acquisitions. Valuation assumes that future exploration and investments achieve acceptable returns. Subjective value is attributed to exploration assets at Mallina. Interest rates/discount rates

Argonaut takes cash flow risk into account when choosing discount rates for different projects. Our valuation is sensitive to the discount rate used. A 2% change in the (after tax) discount rate makes a 16-20% difference to our De Grey valuation.



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