

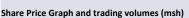
EQUITY RESEARCH

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Buy

Current Price \$0.97 Valuation \$1.40

Code:			DEG			
Sector:	ı	Materials				
* All figures in AUD unless stated otherwise						
Shares on Issue (M)	:		1,409			
Market Cap (\$M):		1,367				
Net cash (\$M June 2		65				
Enterprise value (\$M):						
52 wk High/Low (ps	\$1.44	\$0.74				
12m av. daily vol. (N		6.57				
Key Metrics						
	FY25e	FY26e	FY27e			
P/E (x)	0.0	3.4	3.3			
EV/EBITDA (x)	-46.5	2.2	2.1			
Financials:						
	FY25e	FY26e	FY27e			
Revenue (\$M)	0	1,144	1,271			
EBIT (\$M)	-28	505	524			
NPAT (A\$M)	-27	398	414			
Net assets (\$M)	609	944	1,187			
Op CF (\$M)	-27	518	517			
Day abaya data.						
Per share data:	4.0	20.2	20.4			
EPS (c)	-1.9	28.2	29.4			
Dividend (cps)	0.0	0.0	7.0			
Yield (%)	-	26.0	-			
CF/Share (cps)	-1.9	36.8	36.7			
D (0	474	F27			
Prod (koz Au)	0	474	527			





Please refer to important disclosures at the end of the report (from page 5)

Thursday, 8 September 2022

De Grey Mining Ltd (DEG)

Going long

John Macdonald

Quick Read

Mallina output plans continue to expand. Costs have been on the rise too, but gold always wins longer term. Maintain buy recommendation.

Main points

PFS: De Grey has completed a pre-feasibility study for the Mallina project.

Changes from the October 2021 scoping study include:

- The PFS mine plan, including the regional deposits, assumes a 6.8Moz inventory, compared to 5.1Mozs used in the scoping study.
- Within the total inventory, Hemi's estimated inventory is up from 95Mt at 1.42g/t at 4.9:1 waste:ore, to 114Mt at 1.54g/t at 6.1:1 waste:ore. The increase in strip ratio is driven mainly by geotechnical considerations.
- The Hemi inventory includes 103Mt at 1.55 g/t (5.1Mozs) in probable reserves, estimated for the first time.
- Capital costs are up from \$893M to \$1,053M including a \$68M pre-strip.
- Estimated processing costs are down 10% to \$24/t, due mainly to the identification of reduced neutralisation requirement. Mining costs are up from \$21/t to \$31/t, due to the strip ratio change and industry cost increases seen in the last 12 months.
- Instead of 470kozspa over the first five years, De Grey is looking at 550kozspa, with some grade streaming taking the early head grade average up to 1.75 g/t.
 Metallurgical recovery projection has increased from 93% to 93.6%.

The planned ore processing rate has been maintained at 10Mtpa. Open pit only is considered at this stage.

A schedule is set for completion of a DFS in 2023, construction from 2023 to 2025 and production from 2025.

No net change under our assumptions: In our model Mallina's post tax NPV is essentially unchanged as cost increases offset higher output assumptions.

Making light of POx: The projected flotation performance, and oxidation/CIL recoveries from all ore types and sources are very good at a very tolerable costs, and that may be an area that potential financiers or acquirers will want to bed down.

Recommendation

Mallina passes the second study iteration with no backward steps and withstands some market-imposed inflation. We think a group will eventually pay up for control of De Grey, because Hemi's long-life, high-volume potential transcends gold price and cost inflation concerns. Our valuation and recommendation are unchanged at \$1.40/share and buy, respectively.



De Grey Mining

Equities ResearchAnalyst: John Macdonald

Recommendation Current Price		Buy \$0.97					Sector Issued Capital (M	shs)	Metal	s & Mining 1,409
Valuation		\$1.40					Market Cap (M)	Th	ursday, 8 Septe	\$1,367 mber 2022
Profit & loss (\$M) 30 June	2022E	2023E	2024E	2025E	Financial ratios		2024E	2025E	2026E	2027E
Sales Revenue	0	0	0	0	GCFPS	Α¢	-1.7	-1.9	36.8	36.7
+ Other income/forwards	0	0	0	0	CFR	X	0.0	0.0	2.6	2.6
- Operating costs	0	0	0	0	EPS	A¢	-1.7	-1.9	28.2	29.4
- Royalties	0	0	0	0	PER	X	0.0	0.0	3.4	3.3
- Corporate & administration Total Costs	-10 - 10	-28 -28	-28 -28	-28 - 28	DPS Yield	A¢ %	0.0 0.0%	0.0 0.0%	0.0 0.0%	0.1 7.2%
EBITDA	-10 -10	-28	-28	-28 -28	Interest cover	70 X	-18.7	-5.1	66.9	82.5
- margin	0%	0%	0%	0%	ROCE	%	-4%	-2%	43%	47%
- D&A	0	0	0	0	ROE	%	-5%	-6%	53%	44%
EBIT	-10	-28	-28	-28	Gearing	%	70%	112%	59%	37%
+ Finance Income/Expense	0	0	-2	-6	•					
PBT	-10	-28	-30	-34	Operations summary		2024E	2025E	2026E	2027E
- Tax expense	1	6	6	7	Mallina project					
- Impairments and other	_				Ore processed (Mt)		0.0	0.0	9.0	10.0
NPAT	-9	-22	-24	-27	Head grade (g/t)		0.00	0.00	1.75	1.75
Cash flow (\$M)	2022E	2023E	2024E	2025E	Met. recovery		0.00	0.00	0.94	0.94
Cash flow (\$M) + Revenue	2022E 0	2023E 0	2024E 0	2025E 0	Gold prodn (kozs)		U	0	474	527
- Cash costs	-10	-28	-28	-28	Cost per milled tonne (A	\$/t)	0	0	53	56
- Forwards	0	0	0	0	Cash costs pre royalty (A		0	0	1097	1168
-Tax payments	1	0	6	7	All in sustaining costs (A		0	0	1223	1292
+ Interest & other	0	0	-2	-6	Growth capital (\$M)	., - ,	493	560	3	6
Operating activities	-10	-28	-24	-27						
- Property, plant, mine devel.	-89	-42	-493	-560	Valuation summary				A\$M	A\$/sh
- Exploration	-4	-32	-20	-20	Mallina project 7% real a	after tax DR			1891	1.34
Investment activities	-93	-74	-513	-580	Exploration, all sites				284	0.20
+ Borrowings	0	0	400	400	Corporate overheads				-147	-0.10
- Dividends	0	0	0	0	Cash				75	0.05
+ Equity	126	135	360	0	Debt				0	0.00
Financing activities Cash change	126 24	135 33	760 224	400 -207	Tax benefit Hedging				60 0	0.04 0.00
Cash Change	24	33	224	-207	Option/equity dilution				-186	-0.13
Balance sheet	2022E	2023E	2024E	2025E	NAV				1,977	1.40
Cash & bullion	85	118	341	134					,-	
Other Current Assets	0	0	0	0	Directors, management					
Total current assets	85	118	341	134	Simon Lill				Non-Executive	Chairman
Property, plant & equip.	167	209	702	1262	Glenn Jardine				Managir	ng Director
Investments/other	0	0	0	0	Andy Beckwith				Executiv	ve Director
Total non-curr. assets	167	209	702	1262	Peter Hood				Non-Executiv	
Total assets	252	327	1043	1396	Ed Eshuys				Non-Executiv	
Trade payables	12	13	6	40	Samantha Hogg				Non-Executiv	
Short term borrowings Other	0 12	0 13	0 68	120	Paul Harvey				Non-Executiv	ve Director
Total curr. liabilities	12 24	26	68 74	68 107	Top shareholders				M shs	%
Long term borrowings	0	0	400	680	Gold Road Resources		_		280	19.9
Other	0	0	0	0	State Street Corporation	ı			110	7.8
Total non-curr. liabil.	0	0	400	680	Jupiter Investment Man				99	7.0
Total liabilities	24	26	474	787	Invesco Australia				71	5.0
Net assets	228	301	570	609						
					Resources June '22		Mt	g/t Au		/lkt cap/oz
Shares	2022E	2023E	2024E	2025E	Mallina gold project		251.0	1.32	10,635	129
New shs issued/exerciseable	118	152*	301*	3	Measured & indicated	l	158.0	1.34	6,808	
Average issue price	1.07	0.89*	1.19*	0.00	Inferred	vos	93.0	1.28	3,828 5 122	266
Ordinary shares - end Diluted shares - end	1409 1415	1561 1565	1862 1865	1865 1865	Includes probable reser	ves	103.0	1.55	5,133	266
*Argonaut assumption	1415	1302	1002	1002						
Q					Argonaut model Jun '22		Mt	g/t Au	Kozs	
Price assumptions	2022E	2023E	2024E	2025E	TOTAL INVENTORY		139.0	1.55	6,931	197
AUDUSD	0.726	0.725	0.725	0.725	Hemi open pit		114.0	1.54	5,645	
Gold	1819	1810	1775	1750	Satellite open pit		25.0	1.60	1,286	
Gold	2504	2497	2448	2414						



Market expectations, as at 8 September 2022

Fig. 1: Check model run at spot gold, DEG share price of \$0.97 (as at 8 September 2022). Argonaut estimates the market expects 30% margin above total costs, and 4.6Mozs to be produced.

ARGONAUT				
Gold price	A\$/oz	2625	2625	2625
	US\$/oz	1799	1799	1799
Exch rate		0.685	0.685	0.685
De Grey		June 2022	Post construction	1st quarter
Gold production per quarter	kozs			125
Reported AISC	A\$/oz			1350
Net cash & bullion (EOP)	\$M	75	-1175	-1107
Cost to get to first prodn	\$M		1250	
Total costs	\$M			260
CAIC	A\$/oz			2077
S/holder cash build/qtr	\$M			68
AISC/CAIC				65%
Market Capitalisation	\$M	1367	1367	1367
EV	\$M	1292	2542	2473
Cash banked/EV				2.8%
Margin				26%
Expected margin		30%	30%	30%
Expected reserve	kozs	4561	4561	4438
Par quarter	\$M			77
Source: Argonaut research				

Source: Argonaut research

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 2022. Assumptions about Mallina's future development and cash flows are based on De Grey's September 2022 pre-feasibility study, with differences in timing and price settings. A real, after tax discount rate of 7% 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. 2: Valuation summary, projected June 2022

Valuation summary	A\$M	A\$/sh
Mallina project 7% real after tax DR	1891	1.34
Exploration, all sites	284	0.20
Corporate overheads	-147	-0.10
Cash	75	0.05
Debt	0	0.00
Tax benefit	60	0.04
Hedging	0	0.00
Option/equity dilution	-186	-0.13
NAV	1,977	1.40

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. Study cost accuracy is +- 15-25%.

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 150M new shares issued in FY 2023 at \$0.90 per share and 300M new shares issued in FY24 at \$1.20 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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