

JUPITER MINES LTD (JMS)

1H DPS positive surprise

Jupiter Mines Ltd (JMS) recently announced that Tshipi (49.9% JMS) will pay a 1.15b Rand dividend to shareholders (575m Rand, ~A\$57.5m to JMS) at the end of June (remembering that year end is 31 August, and hence this is early). We expect there is likely another Tshipi dividend for the half ending 31 August, so this should be considered only part of the half year dividend.

JMS expects to distribute this to shareholders in November (and "exceed Company's payout policy"). A\$57.5m equates to ~2.9cps, but after withholding tax and other JMS costs, we estimate it equates to ~2.5-2.7cps for JMS shareholders. This is higher than our assumed 2.25cps in our model for the whole half year. We have increased our assumed 1H DPS to 2.75cps. We assume 2H DPS of 1.75cps, assuming lower manganese prices and higher tax in 2H. However, on spot prices, we estimate that the 2H DPS could be maintained at 2.75-3cps, so there is upside risk to our estimates.

Earnings changes

The Company is guiding for 3Mt of sales which is lower than we had assumed, but costs are also much lower. The cost profile is minimised at ~3Mtpa, with costs rising for production after that due to inefficiencies in land transport. Hence, production is normally higher than 3Mtpa when pricing is very high and margins expand despite higher costs. The softer manganese price has meant the Company has stayed nearer to 3mtpa target. We have lowered our production forecast to 3mtpa but we also have lowered our cost estimates.

The JMS <u>audited</u> Annual Accounts are expected to be released later this month, and the escrow will expire on half (~300m shares) of the IPO vendors (page 70-71 of FY18 Annual Report) on or about 30 May. Remember some of 145m (~72m for the half) those shares have already have sale agreement in place.

Buy recommendation with 42cps target

We have a Buy recommendation and have a 42cps twelve month target + 4.5cps DPS (2.75cps + 1.75cps). The key risks are investor sentiment for South Africa and commodity prices.

Fig. 1: Earnings Changes

Tshipi (49.9%)	Unit	28 Feb 19		29 Feb 20			28 Feb 21	
		actual	Old	New	% chg	Old	New	% chg
Production (100%)	Mtpa	3.4	3.3	3.0	-8.3%	3.1	3.0	-2.9%
Received Price	US\$/dmtu	5.7	4.9	5.0	2.3%	4.4	4.4	0.0%
AUD	US\$/A\$	0.72	0.72	0.72	0.0%	0.74	0.74	0.0%
ZAR	Rand/US\$	14.06	13.70	13.70	0.0%	13.6	13.55	0.0%
Tshipi Revenue (49.9%)	A\$m	497.9	407.5	382.1	-6.2%	339.6	329.6	-2.9%
	ZARm	5034.8	4034.3	3782.7	-6.2%	3393.7	3293.9	-2.9%
Tshipi Cash Costs (49.9%)	A\$m	-236.4	-240.1	-208.1	-13.3%	-216.0	-209.6	-2.9%
	ZARm	-2390.6	-2376.5	-2059.6	-13.3%	-2158.3	-2094.8	-2.99
	ZAR/t	-1399.6	-1453.8	-1374.5	-5.5%	-1397.9	-1397.9	0.09
Tshipi EBITDA (49.9%)	A\$m	261.5	167.5	174.1	3.9%	123.6	120.0	-2.99
- margin		53%	41%	46%	10.8%	36%	36%	0.09
Tshipi, 100%, EBITDA	A\$m	522.9	335.6	348.8	3.9%	247.7	240.5	-2.99
Tshipi, 100%, Cash dist	A\$m	316.1	205.3	213.2	3.9%	145.5	141.0	-3.19
% of EBITDA		60%	61%	61%	-0.1%	59%	59%	-0.2%
Tshipi, 100%, Cash dist	ZARm	3,196	2,032	2,111	3.9%	1,454	1,409	-3.1%
Tshipi, 100%, EBITDA	ZARm	5298.9	3322.3	3453.1	3.9%	2475.8	2403.0	-2.9%
Tshipi, 100%, EBITDA	US\$	376.9	242.5	252.0	3.9%	182.7	177.3	-2.9%
Tshipi NPAT (49.9%)	A\$m	189.5	115.6	120.3	4.1%	84.0	81.4	-3.1%
payout		83%	89%	89%	-0.2%	87%	87%	0.0%
DPS		0.075	0.045	0.045	0.0%	0.030	0.030	0.0%

Source: Hartleys Estimates

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JMS.asx Buy

	27 May 2019
Share Price	\$0.350
Valuation	\$0.41
12mth price target	\$0.42
Brief Business Description:	

Manganese producer in Sth Africa (via 49.9% interest in Tshipi mine)

Hartleys Brief Investment Conclusion

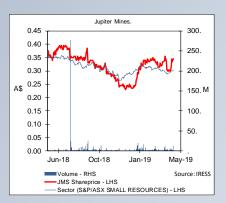
Long mine life, low cost and highly incentivised management for shareholder friendly capital management. Risks are Sth Africa sovereign risk & manganese price volatility.

Chairman & MD

Brian Gilbertson (Chairman)	
Priyank Thapliyal (CEO)	
Top Shareholders	
AMCI	17.2%
Stichting Pensioenfonds	12.9%
Posco	6.9%

Company Address

Lovel 10, 16 St Coore	an Torroon		
Level 10, 16 St Georg	les remace		
Perth WA, 6000, Aust	ralia		
Issued Capital			1959.0m
- fully diluted			1959.0m
Market Cap			A\$685.6m
- fully diluted			A\$685.6m
Cash (28 Feb 19p)			A\$100.0m
Debt (28 Feb 19p)			A\$0.0m
EV			A\$585.6m
	Mt	Mn grade	
Resources (Mt)	459.5	33%	
Reserves (Mt)	86.41	36.32	



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MS					
ey Market Information					
ire price					A\$0.35
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ptions, performance rights and p					0.0m
tions, performance rights and p		ires			0.0m
ued Capital (fully diluted inc. all					1959.0m
ued Capital (fully diluted inc. all	options and	new capital)			1959.0m
Cash					\$100.0m
elve month price target Jation					A\$0.42 A\$0.41
hipi (49.9%)	Unit	28 Feb 18a	28 Feb 19a	29 Feb 20f	28 Feb 21f
ipi Revenue (49.9%)	A\$m, CFR	371.4	497.9	384.8	332.1
·····	ZARm	3659.7	5034.8	3808.8	3318.9
ipi Cash Costs (49.9%)	A\$m CFR	-214.2	-236.4	-217.4	-209.8
	ZARm	-2110.8	-2390.6	-2152.3	-2096.4
ipi EBITDA (49.9%)	A\$m	157.2	261.5	167.3	122.3
argin		42%	53%	43%	37%
pi, 100%, EBITDA	A\$m		524.0	335.3	245.2
pi, 100%, Cash dist	A\$m	161.0	316.1	205.1	143.9
f EBITDA			60%	61%	59%
pi, 100%, EBITDA	ZARm		5298.9	3319.6	2450.1
oi, 100%, EBITDA	US\$		376.9	242.3	180.8
i, 100%, EBITDA - reported	A\$m		585.3	383.9	287.1
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pi NPAT (49.9%)	A\$m	96.3	189.5	115.5	83.1
ut		84%	83%	89%	87%
	Unit	28 Feb 18a	28 Feb 19a	29 Feb 20f	28 Feb 21f
Reported Revenue	A\$m	-0.4	0.0		
6 Reported COGS	A\$m	0.3	0.0		
Reported GP	A\$m	-0.1	0.0		
Reported Profit	A\$m	92.2	142.2		
Balance Sheet	Unit	28 Feb 18a	28 Feb 19a	29 Feb 20f	28 Feb 21f
	A\$m	76.5	72.8	63.8	64.5
Current Assets	A\$m	45.9	85.2	85.2	85.2
Current Assets	A\$m	122.5	158.0	148.9	149.6
erty, Plant & Equip.	A\$m	0.0	0.0	0.0	0.0
ation	A\$m	8.7	10.8	10.8	10.8
ments/other	A\$m	386.6	424.8	424.8	424.8
on-Curr. Assets	A\$m	395.3	435.6	435.6	435.6
Assets	A\$m	517.8	593.6	584.5	585.2
Term Borrowings	A\$m	-	-		-
	A\$m	49.1	132.9	132.9	132.9
Curr. Liabilities	A\$m	49.1	132.9	132.9	132.9
erm Borrowings	A\$m	-	-	-	-
	A\$m	2.6	51.2	51.2	51.2
Non-Curr. Liabil.	A\$m	2.6	51.2	51.2	51.2
Liabilities	A\$m	51.6	184.1	184.1	184.1
ssets	A\$m	466.2	409.5	400.4	401.1
ebt (net cash)	A\$m	-76.5	-72.8	-63.8	-64.5
	Unit	28 Feb 18a	28 Feb 19a	29 Feb 20f	28 Feb 21f
	A\$m	90.6	158.4	99.5	68.6
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				27	May 2019
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Directors			Laural 44	Company I	
Brian Gilbertson (Chairman) Priyank Thapliyal (CEO)), 16 St George Perth WA, 600	
Paul Murray (Non-exec)					3 9346 550
Andrew Bell (Non-exec)				Fax: +61 8	3 9481 593
Yeongjin Heo (Non-exec, Posco Nom	inee)		W	eb: www.jupite	rmines.cor
Melissa North - CFO Top Shareholders					
AMCI					17.29
Stichting Pensioenfonds					12.9%
Posco					6.99
Reserves & Resources	Mt	% Mn		Attributa	able to JM
Measured	103	34.1			Atrib: 51M
Indicated Inferred	119 237	33.5 32.5			Atrib: 60M Atrib: 119M
TOTAL Resources	460	32.5 33.1			trib: 229M
Reserve	86	36.3		JMS	Atrib: 43M
Production Summary	Unit	28 Feb 18a	28 Feb 18a	29 Feb 20f	28 Feb 21
Mill Throughput	Mt	3.8	3.8	3.3	3.3
Saleable Product	Mt	3.4	3.4	3.0	3.0
- grade Mn Solooble Broduct (attrib to JMS)	Mt	36.5%	36.5%	36.5%	36.59
Saleable Product (attrib to JMS) Mass recovery	Mt	1.7 91.0%	1.7 90.3%	1.5 91.0%	1. 91.09
Mine Life	%	49.25	90.3% 49.25	47.25	46.25
Assumed Mine Inventory (end)	Mt	135.0	135.0	127.9	124.6
Costs	Unit	28 Feb 18a	28 Feb 18a	29 Feb 20f	28 Feb 21
Cost per milled tonne	A\$/t	108.9	108.1	117.3	114.7
EBITDA / tonne milled ore	A\$/t US\$/t	83.6 64.8	138.0 99.3	101.4 73.3	74.1 54.7
Total cost / tonne product cfr	A\$/t	125	138	145	14(
	ZAR/t	1,236	1,400	1,436	1,399
	ZAR\$/dmtu	34	38	39	38
	US\$/t	97 2.7	100 2.7	105 2.9	103
Price Assumptions	US\$/dmtu Unit	2.7 28 Feb 18a	2.7 28 Feb 19a	2.9 29 Feb 20f	2.8 28 Feb 21
AUDUSD	A\$/US\$	0.78	0.72	0.72	0.74
JSDZAR		12.71	14.06	13.70	13.55
AUDZAR		9.85	10.11	9.90	9.99
Manganese: 44% benchmark cfr	US\$/dmtu	6.32 278	7.31 322	5.77 254	5.09 224
Manganese: 44% benchmark cfr Iron Ore 62% benchmark cfr	US\$/t US\$/t	66.0	65.5	77.7	70.8
Tshipi received price cfr	US\$/t	168.6	209.7	185.5	163.5
I shipi teceived price cit	US\$/dmtu	4.6	5.7	5.1	4.5
	ZAR\$/dmtu	58.7	80.8	69.6	60.7
	A\$/dmtu	6.0	8.0	7.0	6.1
Valuation multiples		28 Feb 18a	28 Feb 19a	29 Feb 20a	28 Feb 21
EV/EBITDA Div Yield	x %	3.7 0.0%	2.2 21.4%	3.5 12.9%	4.8 8.69
Hedging		28 Feb 18a	21.4% 28 Feb 19f	29 Feb 20f	28 Feb 21
none Sensitivity Analysis				_	
Base Case		Valuation 0.41	FY20 p	ro-froma EBľ 167.3	TDA
Spot Prices Spot USD/AUD 0.69, USD/ZAR 14.4,		0.82 (101.6%)	fob Stb Africa		8.7 (30.7%
AUDUSD +/10%		0.51 (-20.1% / 24		8 / 203.5 (-17.	7% / 21.6%
Manganese +/10%	0.51/0	0.30 (25.8% / -28	5.8%) 204.	2 / 130.5 (22.0	% / -22.0%
Production +/10%	0.50/0	0.32 (21.9% / -21	1.9%) 200.	6 / 134.1 (19.9	% / -19.9%
Jnpaid Capital Year Expires		\$m	Ava price	6 ord	
28-Feb-19		<u>\$m</u> 0.0	Avg price 9 0.00	<u>ora</u> 0%	
29-Feb-20		0.0	0.00	0%	
28-Feb-21		0.0	0.00	0%	
28-Feb-22		0.0	0.00	0%	
28-Feb-23		0.0	0.00	0%	
TOTAL /aluation		0.0	nm	0%	A\$/sh
19.9% Tshipi (pre-tax NAV at disc. rat	e of 10%)				A\$/51 0.5
					-0.1
Tshipi Tax (NPV future liability)					0.0
Marketing					0.0
Marketing Other Assets/Exploration					0.0
Marketing Other Assets/Exploration Forwards					
Marketing Other Assets/Exploration Forwards Corporate Overheads					-0.0
Marketing Other Assets/Exploration Forwards Corporate Overheads Net Cash (Debt)					-0.0 0.0
Marketing Other Assets/Exploration Forwards Corporate Overheads					-0.0 0.0 -0.0 0.0

Analyst: Trent Barnett +61 8 9268 3052 *1bc capital" could be equity or debt. Our valuation is risk-adjusted for how this may be obtained. Sources: IRESS, Company Information, Hartleys Research

Fig. 2: Earnings Changes

Tshipi (49.9%)	Unit	28 Feb 19		29 Feb 20			28 Feb 21			28 Feb 22	
		actual	Old	New	% chg	Old	New	% chg	Old	New	% chg
Production (100%)	Mtpa	3.4	3.3	3.0	-8.3%	3.1	3.0	-2.9%	3.1	3.0	-2.9%
Received Price	US\$/dmtu	5.7	4.9	5.1	3.0%	4.4	4.5	0.8%	4.1	4.2	1.6%
AUD	US\$/A\$	0.72	0.72	0.72	0.0%	0.74	0.74	0.0%	0.76	0.76	0.0%
ZAR	Rand/US\$	14.1	13.7	13.7	0.0%	13.6	13.6	0.0%	14.0	14.0	0.0%
Tshipi Revenue (49.9%)	A\$m	497.9	407.5	384.8	-5.6%	339.6	332.1	-2.2%	304.7	300.6	-1.4%
	ZARm	5034.8	4034.3	3808.8	-5.6%	3393.7	3318.9	-2.2%	3249.9	3205.9	-1.4%
Tshipi Cash Costs (49.9%)	A\$m	-236.4	-240.1	-217.4	-9.4%	-216.0	-209.8	-2.9%	-204.6	-198.9	-2.8%
	ZARm	-2390.6	-2376.5	-2152.3	-9.4%	-2158.3	-2096.4	-2.9%	-2182.8	-2121.9	-2.8%
	ZAR/t	-1399.6	-1453.8	-1436.3	-1.2%	-1397.9	-1399.0	0.1%	-1413.8	-1416.0	0.2%
Tshipi EBITDA (49.9%)	A\$m	261.5	167.5	167.3	-0.1%	123.6	122.3	-1.0%	100.0	101.6	1.6%
- margin		53%	41%	43%	5.8%	36%	37%	1.2%	33%	34%	3.0%
Tshipi, 100%, EBITDA	A\$m	522.9	335.6	335.3	-0.1%	247.7	245.2	-1.0%	200.5	203.7	1.6%
Tshipi, 100%, Cash dist	A\$m	316.1	205.3	205.1	-0.1%	145.5	143.9	-1.1%	116.2	118.2	1.7%
% of EBITDA		60%	61%	61%	0.0%	59%	59%	-0.1%	58%	58%	0.1%
Tshipi, 100%, Cash dist	ZARm	3,196	2,032	2,030	-0.1%	1,454	1,438	-1.1%	1,239	1,260	1.7%
Tshipi, 100%, EBITDA	ZARm	5298.9	3322.3	3319.6	-0.1%	2475.8	2450.1	-1.0%	2138.4	2172.4	1.6%
Tshipi, 100%, EBITDA	US\$	376.9	242.5	242.3	-0.1%	182.7	180.8	-1.0%	152.4	154.8	1.6%
Tshipi NPAT (49.9%)	A\$m	189.5	115.6	115.5	-0.1%	84.0	83.1	-1.1%	67.0	68.2	1.7%
payout		83%	89%	89%	0.0%	87%	87%	0.0%	87%	87%	0.0%
DPS		0.075	0.045	0.045	0.0%	0.030	0.030	0.0%	0.025	0.025	0.0%

Source: Hartleys Estimates

Assumption	Risk of not realising assumption	Downside risk to valuation if assumption is incorrect	Comment
Mine life	Low	High	We assume a long mine life. The mining right expires in 2040 but we assume it is extended.
Discount rate	Moderate	Upside	We assume a discount rate of 10%, real.
FX	Moderate	Meaningful	We assume that the Rand appreciates modestly in near term, and then depreciates again.
Selling prices fall from current prices	Moderate	Most significant	We assume manganese selling prices retrace but remain well above cash costs.
Project interest	Low	Modest	We assume JMS retains its 49.9% interest in Tshipi.
Conclusion	We believe our assu	, 0	ese selling prices are the most important for our uation.

Source: Hartleys

Fig. 4: Stock escrow

Escrowed shareholder	No. of escrowed shares at IPO	No. of escrowed shares to be released	No. of escrowed shares remaining
Pallinghurst Consolidated (Cayman) Limited	145,845,372	72,922,686	72,922,686
POSCO Australia GP Pty Ltd	112,044,320	56,022,160	56,022,160
HJM Jupiter L.P.	98,263,429	49,131,715	49,131,714
FRK Jupiter L.P.	93,406,454	46,703,227	46,703,227
EMG Jupiter L.P.	85,446,062	42,723,031	42,723,031
POSCO Australia Pty Ltd	22,948,152	11,474,076	11,474,076
Priyank Thapliyal	21,129,387	10,564,694	10,564,693
Red Rock Resources plc	18,524,914	9,262,457	9,262,457
Total	597,608,090	298,804,046	298,804,044

Source: JMS. Pallinghurt shares have pre-sale agreement (15 April 2019)

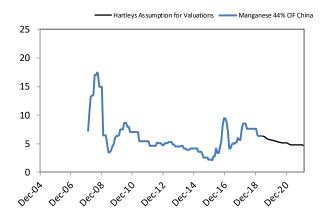
PRICE TARGET

We have a twelve month price target of 42cps (from 44cps previous).

Price Target Methodology	Weighting	Spot	12 mth out
NPV base case valuation	70%	\$0.41	\$0.37
NPV spot valuation	8%	\$0.82	\$0.82
4x EV/EBITDA	5%	\$0.35	\$0.27
10x EV/EBITDA	5%	\$0.83	\$0.63
Dividend yield 9.5% base case	10%	\$0.47	\$0.32
Dividend yield 9.5% spot prices	2%	\$0.59	\$0.59
Risk weighted composite		\$0.47	
12 Months Price Target		\$0.42	
Shareprice - Last		\$0.3500	
12 mth total return		19%	

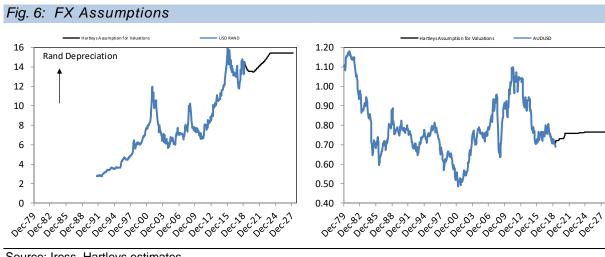
Source: Hartleys Research Estimates

Fig. 5: Manganese Price Assumptions

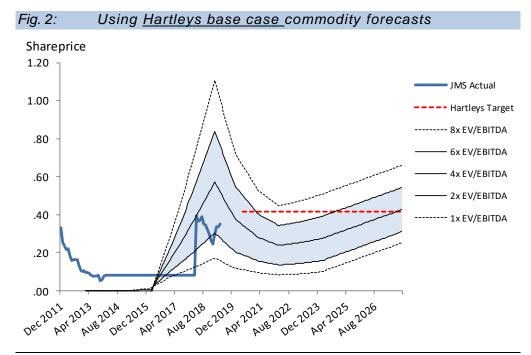




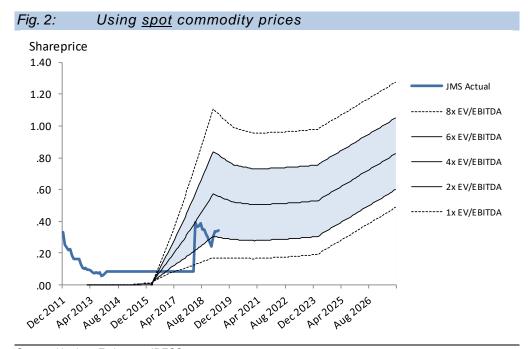
Source: Asian Metal, Hartleys estimates



Source: Iress, Hartleys estimates



Source: Hartleys Estimates, IRESS



Source: Hartleys Estimates, IRESS

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Buy	Share price appreciation anticipated.	
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	
	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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