



Empire Energy Group Limited

Positioning for the "future normal"

Empire Energy Group Limited (ASX:EEG) is a junior oil and gas producer and explorer with onshore oil & gas shale assets. EEG holds the largest acreage position (>14.5m acres) in the highly prospective, potentially global-scale NT McArthur-Beetaloo basins. This province is fast developing as a gas-rich (and potentially liquids-rich) option to boost east coast Australia's future energy needs, as well as feeding Darwin's expanding LNG export terminals, amid strong policy support from both Northern Territory (NT) and Federal governments. The Beetaloo Basin alone is considered to contain recoverable shale dry gas volumes of over 100 Tcf, with liquids upside. EEG also owns conventional gas/oil assets in the US Appalachia, 80%-hedged at US\$2.50/mcf for 2020. In March, EEG received approvals to drill its Carpentaria-1 vertical appraisal well into the Kyalla and Velkerri shale targets, aiming to confirm recent better-than-expected seismic mapping results. Crystallising EEG's longer-term potential rests on successful drilling and securing strategic funding and infrastructure support to commercialise the acreage. Given exceptional COVID-19 uncertainties, EEG has acted decisively to secure its US debt facility covenant waivers until year-end, while conserving cash (A\$11.2m gross) and protecting staff and local communities, by deferring drilling until a safe-work plan can be finalised with local authorities.

Business model

EEG is a junior oil and gas producer/explorer, focused on maturing its portfolio of onshore, long-life oil and gas fields. The company holds substantial exploration acreage in Australia's NT McArthur-Beetaloo basins and is the 2nd largest gas producer in the US Appalachia NY State. EEG's NT assets are at an early exploration stage. Given the region's high prospectivity, success from future drill programs could see cashflows within 36-48 months, assuming links and upgrades to existing pipeline infrastructure are delivered in parallel.

Fast-acting measures target long term business sustainability

EEG has reacted decisively to COVID-19 uncertainties to protect all staff, local communities and funding partners. EEG is deferring its NT drilling program, while working closely with local authorities and partners to implement "safe-work" practices. EEG is both gross (A\$11.2m) and net cash (A\$0.26m) positive, while negotiating US debt covenant waivers until year-end and paying down its loan facility from US\$7.5m to US\$6.675m. EEG's US business is 80%-hedged at a floor price of US\$2.50/mcf for 2020, with additional hedges in place until 2023. Less than 1% of total production (~3mbbl) is exposed to oil prices, while gas output runs at ~1.7bcf pa. Robust results from EEG's 20/21 programs could evolve its prospective resource (P50) of 1.85bln Boe (11 Tcfe) into a contingent resource (2C), better positioning the company to attract strong potential funding partners. Read-throughs from Beetaloo neighbour activities (eg Origin and Santos) and regional access negotiation success could also inject value.

Valuation

We have incorporated the impact of the 2Q20 commodity prices which has had the effect of reducing the long run Brent average oil price to US\$48.13/bbl (previously US\$53.65). This has resulted in an adjustment to our base case valuation of \$133m or \$0.51/share (previously \$0.61/share). EEG has a number of event drivers over the coming 6-12 months which in our view hold potential to generate a sizeable uplift in NAV.

Histori	Historical earnings and RaaS Advisory estimates								
Year end	Revenue (US\$m)	Gross Profit (US\$m)	NPAT reported (US\$m)	OCFPS (AUD cps)	EPS Adj (AUD cps)	Price/Book (x)			
12/18a	6.6	1.9	(5.3)	(0.15)	(1.41)	14.5			
12/19a	5.4	1.2	(12.0)	(4.12)	(9.29)	2.4			
12/20e	4.7	1.4	(3.3)	1.32	(1.95)	4.0			
12/21e	4.4	1.1	(3.7)	2.82	(2.22)	6.9			

Source: Company data, RaaS Advisory Estimates for FY19a, FY20e and FY21e

Energy exploration & production

15 April 2020



Share performance (12 months)



Upside Case

- Drilling success in McArthur-Beetaloo Basin generates significant commercial outcomes for EEG's EP187
- Drilling program proves the south-eastern extension of the Beetaloo Basin into EP187
- Drilling success generates high-value LT strategic partner & funding options

Downside Case

- McArthur-Beetaloo Basin EP 187 2Q 2020 drilling is unsuccessful, negatively impacting value of EP 188
- Equity funding issues are encountered which require highly dilutive deals to be concluded.
- Fracking success in NT/Qld pushes onshore energy prices to sub-economic levels.

Board of Directors

Alex Underwood Managing Director/CEO
Paul Espie AO Non-Executive Chairman
John Gerahty Non-Executive Director
Dr John Warburton Non-Executive Director

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Looking beyond COVID-19

On March 31, EEG announced 2 key prudent and proactive measures to mitigate the impact caused by COVID-19:

- (1) The board **deferred its investment decision regarding the drilling** of Carpentaria-1 in EP187, EEG's key near-term value driver, until the company could be confident that the first stage vertical appraisal program could be conducted in a safe, responsible and cost-effective manner.
- (2) The company has **negotiated with its US business lenders to waive all financial covenants** until year-end, requiring an additional principal repayment of US\$0.6875mn. Debt at 31-March now stands at US\$6.675mn. The US business is 80%-hedged at domestic natural gas prices of \$2.50/mmBtu until year-end against current spot gas prices of US\$1.75/mcf. Additional hedges for the US assets are in place until 2023.

Net Cash comfort zone

Of critical importance, given deepening global financial liquidity risks, EEG remains in a **net cash position**. The company holds gross liquid assets of A\$11.2m and net cash of ~A\$0.26m.

EEG concluded 2019 in a net cash position for the first time since 2011, highlighting the conservative strategic funding approach taken by EEG's current board and management. This follows the sale of its Kansas assets for US\$19.25m in September and a capital raise of A\$12m in mid-November 2019.

Exhibit 1: EEG's cash positio	n in AUD and USD terms	
	AUD (m)	USD (m) *
Gross Cash	11.20	6.832
Debt	10.94	6.675
Net Cash	0.26	0.160
Source: Company data * assumes	AUD-USD exchange rate of 1.00:0.61	_

Near-Neighbour read throughs

In addition, EEG's Beetaloo sub-basin **near-neighbours**, the Santos and Origin JVs in particular, will generate read through results from their regional gas and liquids appraisals. To date, these have been above expectations, justifying further investments, although both JVs are currently suspended by COVID-19 related restrictions.

In particular, the virus shutdown has not dented Origin's enthusiasm for the Beetaloo's potential. Demonstrating its ongoing commitment to its Beetaloo investments, on 7 April Origin announced that it had agreed to purchase an additional 7.5% of its JV partnership with Falcon, lifting its total stake to 77.5% for effective consideration of A\$25m. In addition, it agreed to significantly lift the total investment cap on the Stage II and Stage III work programs from A\$113.3m to A\$263.8m, an increase of A\$150.5m or 133%.

With this latest deal, Origin is effectively valuing the JV tenements and all completed works to date at A\$333m. The company believes that its Beetaloo sub-basin areas potentially holds up to 5 separate plays, including:

- a) middle Velkerri B shale dry gas
- b) middle Velkerri B shale liquids rich gas
- c) Kyalla lower, middle, upper shale dry gas
- d) Kyalla lower, middle, upper shale hybrid liquids rich gas
- e) Hayfield sandstone oil/condensate

Origin is significantly ahead of EEG and Santos in its regional Beetaloo appraisal activities. Origin first struck the farm-in terms with Falcon back in May 2014, completing a 5-well work program in 2016, ahead of announcing a "declaration of discovery" in February 2017 of a 6.6tcf contingent gas resource within the Middle Velkerri B Shale pool across the tenements EP76, EP98 and EP117, representing 4.6m acres/18,500sq km. The JV also reported elevated C3, C4 and C5 liquid hydrocarbon readings from its first horizontally



drilled well targeting the Lower Kyalla shale formation, indicating a gross thickness of 900m. Origin is hopeful the Velkerri and Kyalla hydrocarbon plays may be stacked.

Shoring up US debt covenants

EEG has acted quickly to secure full financial covenant waivers from its US business lender, until the end of this year, agreeing to provide an extra principal repayment of US\$0.6875m as an offset and in addition to its scheduled 31 March quarterly repayment of US\$0.1375m. This has reduced EEG's USD-denominated debt to US\$6.675m. The US\$0.825m principal repayment was met by existing USD cash balances.

As part of the debt facility, EEG's 2020 Appalachian gas production is 80%-hedged at US\$2.50/mmBtu for the remainder of 2020, a significant premium to current spot prices, trading in the USD\$1.50-1.70/mmBtu range. On the cost side, well-head lifting expenses range ~US\$1.20-1.30/mmbtu, allowing adequate cash margin coverage.

Further option hedging, which we estimate amounts to 25-55% of production, set at the same floor price of \$2.50/mmbtu, has been taken out until end-2023, providing additional downside protection.

Exhibit 2: EEG US natural gas (Henry Hub) NYMEX options to 2022									
Period	Floor Pric	e Premium	Volume (mmbtu)						
Jan 20 - Dec 20	\$ 2.5	\$0.23	1,440,000						
Jan 21 - Dec 21	\$ 2.5	\$0.23-\$0.37	600,000						
Jan 22 - Dec 22	\$ 2.5	0 \$0.23-\$0.35	300,000						

Source: Empire Energy 2019 Annual Report

Note: EEG's March quarterly report is expected to provide an updated hedge profile to end-2023.

NT Beetaloo work program deferral

EEG has deferred drilling at its **key future value driver**, the advancement of its Beetaloo basin shale appraisals.

The Stage 1 Work Program is to focus on vertical drilling of the Carpentaria-1 well on its EP187 tenement. The timing of planned drilling remains uncertain due to Covid19 travel and activity restrictions NT authorities suggest EEG may gain an exemption from cross-border restrictions, given that its work searching for additional gas energy sources is an "essential service".

We also note that EEG's **vertical well approvals are valid for 2 years**, offering additional comfort that any timing slippage to its Carpentaria-1 drill plans will not require fresh approvals from the NT Government.

We forecast the drilling and appraisal costs for the Carpentaria-1 vertical appraisal work will cost around A\$7m. This will leave EEG with ~A\$4m in cash to cover contingencies and corporate expenses. The timing of the expenditure on Carpentaria-1 is dependent on the COVID-19 developments.

EEG has also engaged Netherland Sewell & Associates, a Dallas-based energy-consultancy, to develop an **independent prospective resource report**. This should be available for release during 2Q 2020 and may **prove an additional positive event driver**. The Company's existing Prospective Resource P(50) of ~12.4 Tcfe was last updated in October 2016, displaying an average shale thickness of 100m and covering an area of 5.5m/14.5m acres of EEG's total tenement position, primarily based on work undertaken on EEG's EP184 tenement in 2014.

We also expect EEG to continue with its baseline environment testing obligations, particularly water table data collection and analysis, in order to be able to comply with the NT's strict fractured stimulation environmental management requirements, following the lifting of the drilling moratorium in 2018.

Short-term financing looks ok, but...

On a headline basis, the company looks adequately financed through the next 12-months or so, but this will be dependent on the length of time related to the shut-down and a revision of costs prior to drilling activity resuming.

We consider EEG has a number of future potential funding sources:



- a) A Farm-Out partnership
- b) Additional equity raising
- c) An asset sale of EEG's US Appalachian conventional gas/oil assets across Pennsylvania and New York State, where the company is the second-largest regional gas supplier.
- d) The exercise of unlisted options

We anticipate that decisions on additional equity financing or a farm-out relationship will emerge once the Carpentaria-1 vertical well appraisal details are known, likely during 4Q20.

US Asset Sale - dependent on improving domestic gas prices

Given recent excess US onshore natural gas storage inventory levels, we expect domestic Henry Hub gas prices will take some time to recover from 25-year lows.

A recovery in prices could potentially give EEG the option of an asset sale. The business is valued in EEG's 2019 Annual report at ~US\$8m on a PV10 (NPV 10% discount factor) proved-developed-producing (PDP) basis. We have it in our valuation at A\$10m (US\$6.4m).

Given the added drop-off in industrial demand instigated by COVID-19 shutdowns, we suspect US gas inventories will need to settle back in a 1,000-1,200 bcf range before gas prices gather the necessary market support to rally consistently above US\$2/mmbtu.

Unlisted Options: in-the-money at 30 cents

EEG also has ~57.43m unlisted options exercisable at share prices of A\$0.30, \$0.32 and \$0.60 over various periods through until 30 December 2022. These options could raise a further ~A\$11.5m for EEG's coffers in 2020; ~A\$4.6m in 2021 and ~A\$2.2m in 2022, assuming EEG's share price rallies back to its pre-COVID-19 trading level and beyond.

Date	Option Class	Issued No	Exercise price A\$	Gross Casi Value A
31/07/2020	Unlisted	1,000,000	0.32	320,000
26/09/2020	Unlisted	36,775,004	0.30	11,032,50
26/10/2020	Unlisted	600,000	0.30	180,000
30/12/2021	Unlisted	600,000	0.30	180,000
30/12/2021	Unlisted	1,300,000	0.30	390,000
30/12/2021	Unlisted	300,000	0.30	90,000
30/12/2021	Unlisted	300,000	0.30	90,000
31/12/2021	Unlisted	12,000,000	0.32	3,840,000
30/12/2022	Unlisted	1,700,000	0.30	510,000
30/12/2022	Unlisted	2,800,000	0.60	1,680,000

Source: Company data



Exhibit 4: Financial Summary

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EMPIRE ENERGY GR	OUP LTD	EEG				NET PRODUCTION			2018	2019	2020E	2021
YEAR END		Dec				Crude Oil	kb		127	89	3	
NAV	A\$mn	\$0.51				Nat Gas	mı	ncf	1,834	1,778	1,748	1,73
SHARE PRICE	A\$cps	0.18	Last price		14-Apr	TOTAL	kboe		432	385	294	29
MARKET CAP	A\$mn	47										
ORDINARY SHARES	M	263				Product Revenue	A\$mn		14.0	10.3	4.5	4.
OPTIONS	M	54				Cash Costs		mn	(5.1)	(4.4)	(2.4)	(2.4
						Ave Price Realised		/boe	32.49	26.84	15.30	14.6
COMMODITY ASSUMP	TIONS	2018	2019	2020E	2021E	Cash Costs		/boe	(11.84)	(11.54)	(8.00)	
						***************************************	ΑŞ	/ boe		onomonovánomonomonámon		(8.10
Realised oil price	US\$/b	59.86	59.76	36.90	39.16	Cash Margin			20.65	15.29	7.30	6.5
Realised gas price	US\$/mcf	3.24	2.72	2.49	2.36							
Exchange Rate	A\$:US\$	0.7452	0.6958	0.6389	0.6290	RESOURCES and RE	SERVES	Prospe	ctive Resou			
									P90	P50	P10	
						Northern Territory						
EARNINGS	US\$000s	2018	2019	2020E	2021E	Gas						
Revenue		6,593	5,397	4,656	4,407	Barney Creek Fm		Bcf	3,304	8,699	20,172	
Cost of sales		(4,723)	(4,189)	(3,305)	(3,325)	Velkerri Fm		Bcf	383	1,192	3,086	
Gross Profit		1,870	1,208	1,352	1,082	Wooogorang Fm		Bcf	524	1,185	2,371	
Other revenue						TOTAL			4,211	11,076	25,629	
Other income		2,192	155	200	200							
Exploration written off		0	0	0	0	Oil						
Finance costs		(801)	(637)	135	45	Barney Creek Fm		Mb	66	174	403	
Impairment		0	(6,512)	0	0	Velkerri Fm		Mb	8	24	62	
Other expenses		(8,399)	(6,052)	(4,950)	(4,985)	Wooogorang Fm		Mb	10	24	47	
Profit before tax		(5,138)	(11,838)	(3,263)	(3,658)	TOTAL			84	222	512	
Taxes		(115)	(135)	0	0	101712					- J-L	
NPAT Reported		(5,254)	(11,973)	(3,263)	(3,658)				1P	2P	3P	
Loss on discontinued oper	ations	(10,714)	(4,102)	0	(3,038)	US						
NPAT Underlying	ations	(15,968)	(16,075)	(3,263)	(3,658)	Gas		Bcf	24.3	34.4	38.2	
NFAT Officerrying		(13,308)	(10,073)	(3,203)	(3,036)	083		DCI	24.5	34.4	30.2	
CASHFLOW	US\$000s	2018	2019	2020E	2021E	EQUITY VALUATION	V					
Operational Cash Flow		2,828	1,267	117	450	EQUITE TALESTONE	Risked Ra	nge (In A	ŚM)	Risked Ra	nge Per Shar	e (AS)
Net Interest		(2,974)	(1,885)	135	45	NT	Low	Mid	High	Low	Mid	Hig
Taxes Paid		(2,374)	(1,003)	133	73	Gas	\$60	\$90	\$202	\$0.23	\$0.34	\$0.
Other		(115)	(135)	(20)	(20)	Oil	\$22	\$33	\$74	\$0.08	\$0.13	~~~~
				(30)	(30)		, , , Z Z	222	3/4	30.08	\$0.13	\$0
Net Operating Cashflo	<u>w</u>	(261)	(753)	222	465	US Onshore	A.F.	Ć10	645	ćo 00	Ć0.04	ćo
Exploration		0 (40)	0	(1,278)	(3,774)	Appalachian	\$5	\$10	\$15	\$0.02	\$0.04	\$0.
PP&E		(49)	0	0	0		\$87	\$133	\$292	\$0.33	\$0.51	\$1.1
Petroleum Assets		(168)	(1,848)	0	0	Net cash/(debt)	\$5	\$5	\$5	***************************************	***************************************	
Net Asset Sales/other		359	20,008	(472)	(715)	Corporate costs	(\$5)	(\$5)	(\$5)			
Net Investing Cashflov	<i>'</i>	(120)	17,407	(1,528)	(4,024)							
Dividends Paid		0	0	0	0	TOTAL	\$87	\$133	\$292	\$0.33	\$0.51	\$1.1
Net Debt Drawdown		(7,878)	(18,497)	(2,148)	(1,893)	***************************************						
Equity Issues/(Buyback)		11,677	8,037	0	0							
Other		0	0	0	0	RATIO ANALYSIS			2018	2019	2020E	202:
	w	3,785	(10,693)	(2,148)	(1,893)	Shares Outstanding	М		2313	263	263	2
Net Financing Cashflor				(3,454)	(5,452)	EPS (pre sig items)	USc	ps	(1.05)	(6.46)	(1.24)	(1.3
Net Change in Cash		3,404	5,961						/4 44)	(9.29)	(1.95)	(2.2
		3,404	5,961			EPS	Аср	S	(1.41)			
Net Change in Cash	US\$000s	3,404	5,961 2019	2020E	2021E	PER PER	Acp x	S	(1.41) na	na	na	
Net Change in Cash BALANCE SHEET	US\$000s	2018	2019	2020E		PER	Х		na	na	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	2.
Net Change in Cash BALANCE SHEET Cash & Equivalents	US\$000s	2018 4,157	2019 9,882	2020E 6,429	977	PER OCFPS	x Acp		na (0.15)	na (4.12)	1.32	
Net Change in Cash BALANCE SHEET Cash & Equivalents PP&E & Development	US\$000s	2018 4,157 31,241	2019 9,882 26,633	2020E 6,429 25,704	977 29,928	PER OCFPS CFR	x Acp x	S	na	na	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Net Change In Cash BALANCE SHEET Cash & Equivalents PP&E & Development Exploration	US\$000s	2018 4,157 31,241 0	2019 9,882 26,633 141	2020E 6,429 25,704 127	977 29,928 114	PER OCFPS CFR DPS	x Acp x Acp	S	na (0.15)	na (4.12)	1.32	
Net Change in Cash BALANCE SHEET Cash & Equivalents PP&E & Development Exploration Other Assets	US\$000s	2018 4,157 31,241 0 28,673	2019 9,882 26,633 141 2,993	2020E 6,429 25,704 127 991	977 29,928 114 1,495	PER OCFPS CFR DPS Dividend Yield	x Acp x Acp %	S	na (0.15) na	na (4.12) na	1.32 na	
Net Change in Cash BALANCE SHEET Cash & Equivalents PP&E & Development Exploration Other Assets Total Assets	US\$000s	2018 4,157 31,241 0 28,673 64,071	2019 9,882 26,633 141 2,993 39,650	2020E 6,429 25,704 127 991 33,251	977 29,928 114 1,495 32,515	PER OCFPS CFR DPS Dividend Yield BVPS	x Acp x Acp % Acp	S	na (0.15) na 1.2	na (4.12) na 7.5	1.32 na 4.5	
Net Change in Cash BALANCE SHEET Cash & Equivalents PP&E & Development Exploration Other Assets Total Assets Debt	US\$000s	2018 4,157 31,241 0 28,673 64,071 24,369	2019 9,882 26,633 141 2,993 39,650 6,481	2020E 6,429 25,704 127 991 33,251 4,883	977 29,928 114 1,495 32,515 2,990	PER OCFPS CFR DPS Dividend Yield BVPS Price/Book	x Acp x Acp % Acp	S	na (0.15) na	na (4.12) na 7.5 2.4x	1.32 na 4.5 4.0x	6
Net Change in Cash BALANCE SHEET Cash & Equivalents PP&E & Development Exploration Other Assets Total Assets Debt Other Liabilities	US\$000s	2018 4,157 31,241 0 28,673 64,071 24,369 18,332	2019 9,882 26,633 141 2,993 39,650 6,481 19,504	2020E 6,429 25,704 127 991 33,251 4,883 20,846	977 29,928 114 1,495 32,515 2,990 25,212	PER OCFPS CFR DPS Dividend Yield BVPS Price/Book ROE	x Acp x Acp % Acp x Acp	S	na (0.15) na 1.2	na (4.12) na 7.5 2.4x na	1.32 na 4.5 4.0x na	6
Net Change in Cash BALANCE SHEET Cash & Equivalents PP&E & Development Exploration Other Assets Total Assets Debt Other Liabilities Total Liabilities		2018 4,157 31,241 0 28,673 64,071 24,369 18,332 42,701	2019 9,882 26,633 141 2,993 39,650 6,481 19,504 25,985	2020E 6,429 25,704 127 991 33,251 4,883 20,846 25,729	977 29,928 114 1,495 32,515 2,990 25,212 28,202	PER OCFPS CFR DPS Dividend Yield BVPS Price/Book ROE ROA	x Acp x Acp % Acp	S	na (0.15) na 1.2	na (4.12) na 7.5 2.4x	1.32 na 4.5 4.0x	6
Net Change in Cash BALANCE SHEET Cash & Equivalents PP&E & Development Exploration Other Assets Total Assets Debt Other Liabilities		2018 4,157 31,241 0 28,673 64,071 24,369 18,332	2019 9,882 26,633 141 2,993 39,650 6,481 19,504	2020E 6,429 25,704 127 991 33,251 4,883 20,846	977 29,928 114 1,495 32,515 2,990 25,212	PER OCFPS CFR DPS Dividend Yield BVPS Price/Book ROE ROA (Trailing) Debt/Cash	x Acp x Acp % Acp x Acp	S	na (0.15) na 1.2	na (4.12) na 7.5 2.4x na	1.32 na 4.5 4.0x na	6
Net Change in Cash BALANCE SHEET Cash & Equivalents PP&E & Development Exploration Other Assets Total Assets Debt Other Liabilities Total Liabilities Net Assets/Shareholde		2018 4,157 31,241 0 28,673 64,071 24,369 18,332 42,701	2019 9,882 26,633 141 2,993 39,650 6,481 19,504 25,985	2020E 6,429 25,704 127 991 33,251 4,883 20,846 25,729	977 29,928 114 1,495 32,515 2,990 25,212 28,202	PER OCFPS CFR DPS Dividend Yield BVPS Price/Book ROE ROA	x Acp x Acp % Acp x % % %	S	na (0.15) na 1.2	na (4.12) na 7.5 2.4x na	1.32 na 4.5 4.0x na	6
Net Change in Cash BALANCE SHEET Cash & Equivalents PP&E & Development Exploration Other Assets Total Assets Debt Other Liabilities Total Liabilities		2018 4,157 31,241 0 28,673 64,071 24,369 18,332 42,701 21,370	2019 9,882 26,633 141 2,993 39,650 6,481 19,504 25,985 13,665	2020E 6,429 25,704 127 991 33,251 4,883 20,846 25,729 7,522	977 29,928 114 1,495 32,515 2,990 25,212 28,202 4,313	PER OCFPS CFR DPS Dividend Yield BVPS Price/Book ROE ROA (Trailing) Debt/Cash	x Acp x Acp % Acp x %	S S	na (0.15) na 1.2	na (4.12) na 7.5 2.4x na	1.32 na 4.5 4.0x na	2. :
Net Change in Cash BALANCE SHEET Cash & Equivalents PP&E & Development Exploration Other Assets Total Assets Debt Other Liabilities Total Liabilities Net Assets/Shareholde Net Cash/(Debt)		2018 4,157 31,241 0 28,673 64,071 24,369 18,332 42,701 21,370 (20,211)	2019 9,882 26,633 141 2,993 39,650 6,481 19,504 25,985 13,665	2020E 6,429 25,704 127 991 33,251 4,883 20,846 25,729 7,522	977 29,928 114 1,495 32,515 2,990 25,212 28,202 4,313	PER OCFPS CFR DPS Dividend Yield BVPS Price/Book ROE ROA (Trailing) Debt/Cash Interest Cover	x Acp x Acp % Acp x Acp % Acp x % x %	S S	na (0.15) na 1.2	7.5 2.4x na	1.32 na 4.5 4.0x na na	6
Net Change in Cash BALANCE SHEET Cash & Equivalents PP&E & Development Exploration Other Assets Total Assets Debt Other Liabilities Total Liabilities Net Assets/Shareholde Net Cash/(Debt)		2018 4,157 31,241 0 28,673 64,071 24,369 18,332 42,701 21,370 (20,211)	2019 9,882 26,633 141 2,993 39,650 6,481 19,504 25,985 13,665	2020E 6,429 25,704 127 991 33,251 4,883 20,846 25,729 7,522	977 29,928 114 1,495 32,515 2,990 25,212 28,202 4,313	PER OCFPS CFR DPS Dividend Yield BVPS Price/Book ROE ROA (Trailing) Debt/Cash Interest Cover Gross Profit/share	x Acp x Acp % Acp x Acp x x Acp x Acp x % Acp x % % Acp x Acp	S S	na (0.15) na 1.2 14.5x	7.5 2.4x na na	1.32 na 4.5 4.0x na na	6

Source: RaaS Advisory



FINANCIAL SERVICES GUIDE

RaaS Advisory Pty Ltd ABN 99 614 783 363

Corporate Authorised Representative, number 1248415

of

BR SECURITIES AUSTRALIA PTY LTD
ABN 92 168 734 530
AFSL 456663

Effective Date: 26th November 2018



About Us

BR Securities Australia Pty Ltd (BR) is the holder of Australian Financial Services License ("AFSL") number 456663. RaaS Advisory Pty Ltd (RaaS) is an Authorised Representative (number 1248415) of BR.

This Financial Service Guide (FSG) is designed to assist you in deciding whether to use RaaS's services and includes such things as

- who we are
- our services
- how we transact with you
- how we are paid, and
- complaint processes

Contact Details, BR and RaaS

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RaaS is the entity providing the authorised AFSL services to you as a retail or wholesale client.

What Financial Services are we authorised to provide? RaaS is

authorised to

- provide general advice to retail and wholesale clients in relation to
 - Securities
- deal on behalf of retail and wholesale clients in relation to
 - Securities

The distribution of this FSG by RaaS is authorized by BR.

Our general advice service

Please note that any advice given by RaaS is general advice, as the information or advice given will not take into account your particular objectives, financial situation or needs. You should, before acting on the advice, consider the appropriateness of the advice, having regard to your objectives, financial situation and needs. If our advice relates to the acquisition, or possible acquisition, of a particular financial product you should read any relevant Prospectus, Product Disclosure Statement or like instrument. As we only provide general advice we will not be providing a Statement of Advice. We will provide you with recommendations on securities

Our dealing service

RaaS can arrange for you to invest in securities issued under a prospectus by firstly sending you the offer document and then assisting you fill out the application form if needed.

How are we paid?

RaaS earns fees for producing research reports. Sometimes these fees are from companies for producing research reports and/or a financial model. When the fee is derived from a company, this is clearly highlighted on the front page of the report and in the disclaimers and disclosures section of the report.

We may also receive a fee for our dealing service, from the company issuing the securities.

Associations and Relationships

BR, RaaS, its directors and related parties have no associations or relationships with any product issuers other than when advising retail clients to invest in managed funds when the managers of these funds may also be clients of BR. RaaS's representatives may from time to time deal in or otherwise have a financial interest in financial products recommended to you but any material ownership will be disclosed to you when relevant advice is provided.

Complaints

If you have a complaint about our service you should contact your representative and tell them about your complaint. The representative will follow BR's internal dispute resolution policy, which includes sending you a copy of the policy when required to. If you aren't satisfied with an outcome, you may contact AFCA, see below. BR is a member of the Australian Financial Complaints Authority (AFCA). AFCA provide fair and independent financial services complaint resolution that is free to consumers.

Website: www.afca.org.au; Email: info@afca.org.au; Telephone: 1800931678 (free call)
In writing to: Australian Financial Complaints Authority, GPO Box 3, Melbourne, VIC, 3001.

Professional Indemnity Insurance

BR has in place Professional Indemnity Insurance which satisfies the requirements for compensation under s912B of the Corporations Act and that covers our authorized representatives.



DISCLAIMERS and DISCLOSURES

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Assessment of risk can be subjective. Portfolios of equity investments need to be well diversified and the risk appropriate for the investor. Equity investments in listed or unlisted companies yet to achieve a profit or with an equity value less than \$50 million should collectively be a small component of a balanced portfolio, with smaller individual investment sizes than otherwise. Investors are responsible for their own investment decisions, unless a contract stipulates otherwise. RaaS Advisory does not stand behind the capital value or performance of any investment. Subject to any terms implied by law and which cannot be excluded, RaaS Advisory shall not be liable for any errors, omissions, defects or misrepresentations in the information (including by reasons of negligence, negligent misstatement or otherwise) or for any loss or damage (whether direct or indirect) suffered by persons who use or rely on the information. If any law prohibits the exclusion of such liability, RaaS Advisory limits its liability to the re-supply of the Information, provided that such limitation is permitted by law and is fair and reasonable. Copyright 2020 RaaS Advisory Pty Ltd (A.B.N. 99 614 783 363). All rights reserved.