

Empire Energy Limited (EEG)

Contingent Resources point the way

Our View

Progress sometimes comes in small steps and EEG has taken another small step forward with the declaration of an initial Contingent Resource booking associated with the Carpentaria-1 well in the Beetaloo Basin. i

The numbers are small at a 2C level but serve as a pointer to the hydrocarbon potential of the Velkerri Formation section as the resource estimates are associated only as they relate to the Carpentaria-1 well.

Testing of the well is expected to commence in 2Q21 and success could underpin an expansion and acceleration of the next phase of appraisal drilling; and most certainly support upside to resource bookings.

Empire Energy represents one of few pure, independent and highly leveraged exposures to the transformational potential of the Beetaloo/McArthur basins. As more data comes to hand, we expect the economic confidence level to grow and highlight that EEG is sitting on an extensive (and transformational) gas resource.

Key Points

The time is nigh for testing to commence. Following the release of the resource estimates for Carpentaria-1, the focus of the company moves towards proving the commercial opportunity through testing. Preparations are well advanced with a four-stage, frack and flow testing campaign expected to commence in 2Q21, which, together with additional seismic acquisition will underpin next phase drilling.

It's worth reminding that EEG does not operate in a vacuum. Santos (STO.ASX) in its 2021 outlook presentation indicated it will be drilling and testing two horizontal wells around it's Tanumbirini gas well commencing 2Q21. This will provide a direct look-through and extrapolation into the EEG operations, particularly as it plans its next phase drilling activity.

An initial 2C booking points the way. The numbers are small but the significance is not, with EEG reporting an initial Contingent Resource booking around the Carpentaria-1 well. We note the bookings do not include any gasliquids associated with the 2C gas volumes yet but do include initial Prospective resource estimates...there is a commercial significant volume of condensate waiting to be produced. The direct and indirect testing data to be acquired over the remainder of 2021 will likely add/convert significant volumes to the initial estimates, better define the liquids expectations and could deliver sufficient certainty to underpin early commercialisation options.

Our Target Price and valuation are unchanged but subject to significant unwinding of risk and uplift in confidence levels as testing data comes to hand through the direct and indirect activity to be conducted through 2021. We currently value the company in a range of \$89-451mn (\$0.27-1.39/share).

We retain our recommendation at **BUY** with a **Target Price of \$0.58/share**, equivalent to our middle-point valuation to reflect the current technical, market and operating outcomes.

15 March 2021

Recommendation: BUY

Share price graph (AUD)

Summary (AUD) Market Capitalisation \$112 Share price \$0.345 52 week low (23-Mar-20) \$0.13 52 week high (12-Oct-20) \$0.47



Source: Yahoo Finance

Key Financials (US\$000s)								
US\$	2019	2020E	2021E					
Production (kboe)	385	273	282					
Revenue	5,397	4,513	4,778					
EBITDAX	724	1,861	2,066					
EBIT	(10,034)	(6,593)	(3,941)					
Underlying NPAT	(16,075)	(7,100)	(3,941)					
EPS (Acps)	(9.3)	(3.1)	(1.6)					
Growth (%)		na	na					
PER (x)		nm	nm					
EV/EBITDAX (x)		(16.2)	0.6					
CFPS (Acps)	(4.1)	(8.0)	(0.2)					
PCF (x)		nm	nm					
ROE (%)		na	na					
ROA (%)		na	na					

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Empire Energy L	imited - S	ummary o	rForecasts	Ĭ.					Shar	e Price	EEG	\$0.34
ORDINARY SHARES	M	324	Fully Diluted M		342	BALANCE SHEET	SUMMAR	RY (US\$000s)				
OPTIONS	M	18				Year end June			2018	2019	2020E	2021
MARKET CAP	A\$mn	112				Cash			4,157	9,882	12,796	10.5
PROFIT & LOSS SUM						Property Plant & Equip			31,241	26,633	31,991	34,8
Year end December		2018	2019	2020E	2021E				0	141	127	1
Commodity Price Assur	nptions					TOTAL ASSETS			64,071	39,650	45,550	46,11
Realised oil price	US\$/b	59.86	59.76	39.48	48.30	Borrowings			24,369	6,481	6,358	5,80
Realised gas price		3.24	0.00	1.96	2.67	TOTAL LIABILITIES			42,701	25,985	24,009	27,5
Exchange Rate		0.7452	0.6958	0.6989	0.7705	· 프레이트		21,370	13,665	21,540	18,59	
and a second										na	r	
Total Revenue		6,593	5,397	4,513	4,778	CASH FLOW SUM	MARY (U	S\$000s)				
Cost of sales		(4,723)	(4,189)	(3,502)	(3,612)	Year end June		2018	2019	2020E	2021	
Gross Profit		1,870	1,208	1,011	1,166	Operational Cash	Flow		2,828	1,267	343	4:
EBITDAX proxy		1,870	724	1,861	2,066	Net Interest			(2,974)	(1,885)	(483)	(45
Other revenue		0	0	0	0	Taxes Paid			0	0	Ó	V/////
Other income		2,192	155	150	200	Other			(115)	(135)	(30)	(3
Write downs/impairme	nts	0	(1,167)	(1,879)	0	Net Operating Ca	shflow		(261)	(754)	(170)	(5
Finance costs		(801)	(637)	(483)	(457)	Exploration			0	0	(8,725)	(2,50
Other expenses		(8,399)	(11,397)	(5,875)	(4,850)	PP&E			(49)	0	0	
EBIT proxy		(4,339)	(10,034)	(6,593)	(3,941)	Petroleum Assets			(168)	(1,848)	0	
Profit before tax		(5,138)	(11,838)	(7,076)	(3,941)	Net Asset Sales/o	ther		359	20,008	103	(19
Taxes		(115)	(135)	(25)	0	Net Investing Cas			(120)	17,407	(8,792)	(2,75
NPAT Reported		(5,254)	(11,973)	(7,100)	(3,941)	Dividends Paid						
Underlying Adjustments	S	(10,714)	(4,102)	0	0	Net Debt Drawdown			(7,878)	(18,497)	(1,238)	(55
NPAT Underlying		(15,968)	(16,075)	(7,100)	(3,941)	Equity Issues/(Buyback)			11,677	8,037	13,071	1,0
Margins on Sales Rever	nue				*	Other	* 5.51500*.			-1	3.783313	(17.7)
EBITDAX		28.4%	13.4%	41.2%	43.2%	Net Financing Cashflow		3,785	(10,693)	11,834	5	
EBIT		91.9%	nm	nm	nm	Net Change in Cash			3,404	5,961	2,873	(2,27
NPAT Und		nm	nm	nm	nm	PRODUCTION						
Change on pcp						Year end June			2018	2019	2020E	2021
Total Revenue						Crude Oil		kb	127	89	2	
EBITDA			nm	nm	nm	Nat Gas		mmcf	1834	1778	1630	167
EBIT			nm	nm	nm	TOTAL		kboe	432	385	273	28
NPAT Adj.			nm	nm	nm	RESERVES & RESOURCES					18/05/202	
						Northern Territory	1U	2U	3U	1U	2U	3U
PER SHARE DATA								Gas (Bcf)		L	iquids (Mb)	
Year end June		2018	2019	2020E	2021E	Velkerri Fm	1,283	2,339	4,751	1	7	33
Shares Outstanding	M	2,313	263	324	328	Barney Creek Fm	1,633	11,053	45,380	2	44	448
EPS Und	A cps	(1.4)	(9.3)	(3.1)	(1.6)	Wollogorang Fm				0	0	0
Growth (pcp)		na	na	na	nm	TOTAL	2,916	13,392	50,131	4	53	488
Dividend	cps					US	1P	2P	3P			
Franking	%					Gas	24	34	38			
OCF per Share	A cps	(0.2)	(4.1)	(0.8)	(0.2)						as of	22/02/202
NTA per share	Acps		7.5	9.5	7.4		1C	2C	3C	1U	2U	3U
						Carpentaria		41	86	1,198	1,988	3,863
KEY RATIOS		, page 10 de 10 de				Carpentaria East				522	1,458	3,228
Year end June		2018	2019	2020E	2021E	TOTAL Gas (Bcf)		41	86	1,720	3,446	7,091
$D_N/(D_N + E)$	%	49%				TOTAL Condensa	te (Mb)			4	27	99
ROE	%	na	na	na	na	EQUITY VALUATION			Risked R	ange		
ROA	%	na	na	na	na	NT	Low	Mid	High	Low	Mid	Hig
(Trailing) Debt/Cash	X	0.0x	0.0x	0.0x	0.0x	Gas	\$52	\$104	\$271	\$0.16	\$0.32	\$0.
, , , , , , , , , , , , , , , , , , , ,		2.00			2.34	Liquids	\$17	\$57	\$149	\$0.05	\$0.18	\$0.4
						US Onshore	Ų.,	\$ 0.	*		\$5.10	4 3.
VALUATION MULTIPLI	ES					Appalachian	\$17	\$22	\$28	\$0.05	\$0.07	\$0.
VALUATION MULTIPLE		2018	2019	2020E	2021E	- The -	\$85	\$183	\$448	\$0.26	\$0.57	\$1.
		20.0				1// 1// 10	5.5.5			,		¥1
Year end June	X		na	na	na	Net cash/(debt)	.58	.70	58			
Year end June PER	X %		na	na	na	Net cash/(debt) Corporate costs	\$8 (\$5)	\$8 (\$5)	(\$5)			
Year end June	x % %		na -11.9%	-2.2%	-0.6%	Corporate costs	\$8 (\$5) \$89	(\$5) \$186	(\$5) \$451	\$0.27	\$0.58	\$1.3

Source: Company data; Analyst estimates, priced at 34.5cps

Resources and testing...and a sneaky peek at Santos activity

The success at Carpentari-1 continues to build the commercial case and importantly has underpinned the declaration of the first Contingent Resources for EEG pertaining to its Beetaloo Basin operations. Although the gas numbers are not striking in an absolute sense, we see the bookings as significant in a qualitative sense as a pointer to thing to come.

Figure 1: Resource booking related to Carpentaria-1 – note the liquids potential of ~8b/mmcf (at 2U level).

Area	Contingent Resource (100%) Net Sales Gas (BCF) Estimate			Unrisked Gross (100%) Prospective Sales Gas Resources (BCF) Estimate			Unrisked Gross (100%) Prospective Condensate Resources (MMBBL) Estimate			
	(1C)	(2C)	(3C)	(1U)	(2U)	(3U)	(1U)	(2U)	(3U)	
	Carpentaria*	-	41	86	1,198	1,988	3,863	3	17	58
Carpentaria East*	-	-	-	792	1,458	3,228	1	10	41	
Total*	-	41	86	1,990	3,446	7,091	4	27	99	
Inferred CGR (b/mmcf)							2	8	14	

Source: Company data; analyst estimates estimares

The Prospective Resources associated with the Carpentaria play imply a liquids range of 2-14b/mmcf. Any gas liquids (condensates) are welcome as providing the potential for excess returns to a development, although these volumes are only really significant at higher ratios. At the higher range of CGR = 8-14, the nominal volumes for exploitation are significant and would provide strong additional commercial returns.

We have commented in previous notes that gas liquids can be an economic game-changer.

As flagged previously, EEG will benefit from a direct look-through across the Santos (STO.AX) drilling and testing programmes over the remainder of 2021.

STO has previously reported the Tanumbirini-1 testing results as excellent, delivering an IP rate >10mmcfd with an average rate 1.1mmcfd over 19 days from a vertical intersection.

A rig has been contracted to commence drilling of two horizontal wells in 2Q21. The important aspect is that the wells will be horizontal, which may be the design key to unlocking definitively commercial flow rates.

We retain our Target Price at \$0.58/share

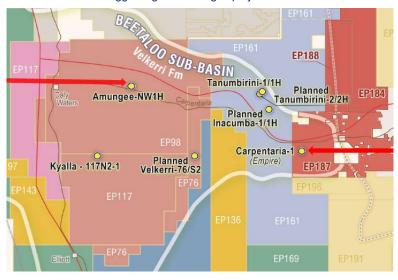
We highlight the capacity for positive revisions upon the successful outcomes that could be provided by the Carpentaria-1 testing and evaluation campaign, particularly any confirmation of liquids rates on a flowing gas basis,

We set our Target Price against the mid-point (risk-weighted) of our valuation range which we feel better reflects the next point in the re-rating process.

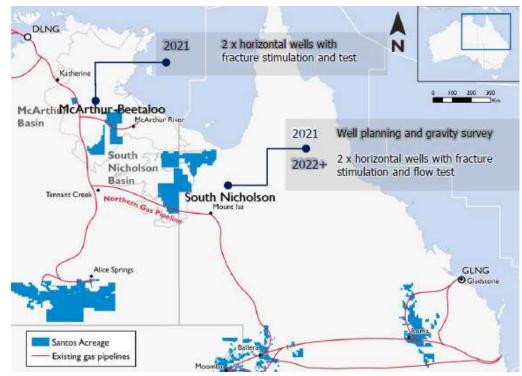
Figure 2: Carpentaria-1 will benefit on a 'look through' from STO at Tanumbirini - after all, it's right next door.

The Carpentaria results, given the liquids rich nature of the intersection, should at this stage be considered on a specific, well constrained basis, however, positive results could be be interpolated as supporting the liquids prospectivity on a larger scale, particularly enhancing the economic opportunity.

The data to date is suggesting there is a gas project here to be won.



Source: Company data



Source: Company data

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TAYLOR COLLISON LIMITED
Sharebrokers and Investment Advisors
Established 1928

ADELAIDE

Level 16, 211 Victoria Square Adelaide SA 5000 GPO Box 2046 Adelaide SA 5001 Telephone 08 8217 3900 Facsimile 08 8321 3506 broker@taylorcollison.com.au

SYDNEY

Level 10, 151 Macquarie Street Sydney NSW 2000 GPO Box 4261 Sydney NSW 2001 Telephone 02 9377 1500 Facsimile 02 9232 1677 sydney1@taylorcollison.com.au

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