(VXR \$0.18) Speculative Buy



Analyst	Date	Price Target
Andrew Clayton	10 th October 2018	\$0.60/sh

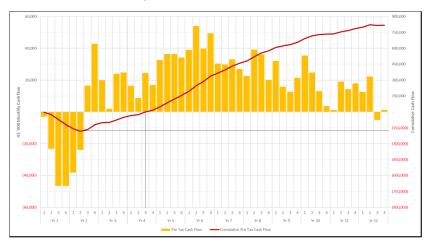
Sulphur Springs DFS

Investment case

VXR has delivered an impressive DFS with pre tax NPV8 of \$472m and IRR of 52%. Importantly total capex/maximum cash drawn down remains similar to previous estimates at \$183m, despite the plant size increasing to 1.25mtpa. Annual production of 35kt of Zn and 15kt of Cu with operating margins of ~50% is pleasing. Based on our price assumptions we forecast potential EBITDA of >\$200m in the Years 4/5 when higher grades are mined. The metallurgical question has been answered on the various ore types. Our risk adjusted valuation remains similar at \$0.61/sh (previously \$0.59/sh). Financing, without significant dilution remains the challenge; however the dearth of quality, emerging, long life base metal producers should put VXR in good stead. We retain our Spec Buy and PT of \$0.60/sh.

Key points

- VXR has delivered an impressive DFS which shows Sulphur Springs is a high margin, long life Cu/Zn mine with operating margins of >50%.
- Initial capex is estimated \$146m plus an additional \$23m in pre strip for a 1.25mtpa plant producing on average 35kt of Zn and 15kt of Cu pa for ~ 10yrs.
- C1 operating margins of 50% are estimated with total costs (including capital) of \$144/t compared to average revenue of \$210/t.
- This equates to pre tax free cash of ~\$80m pa based on price assumptions
 of Cu @ US\$2.85/lb, Zn @ US\$1.20/lb and Ag @ US\$19/oz. A US\$: A\$ rate of
 0.72 was assumed. Qtrly cashflow is outlined below.



Source: Venturex Resources Ltd

 Ore reserves are based on the Mar'18 calculation at 8.5mt @ 3.1% Zn and 1.4% Cu. The DFS assumes 32% of the mining inventory to come from current inferred resource

Venturex Resources L	td Y	ear End	30 June
Share Price	0.18		A\$/sh
Price Target	0.60		A\$/sh
Valuation	0.61		A\$/sh
Shares on issue Market Capitalisation Enterprise Value Debt Cash Largest Shareholder	239 43 42 -2 3		A\$m A\$m A\$m A\$m A\$m A\$m ST - 19%
Production F/Cast	2021f	2022f	2023f
Zn Prod'n (t)	3	28	35
Cu Prod'n (t)	17	21	13
Assumptions	2021f	2022f	2023f
Zn Price (US\$/lb)	1.40	1.30	1.30
Cu Price (US\$/lb)	3.25	3.33	3.40
FX Rate (A\$1=US\$)	0.75	0.75	0.75
Key Financials	2021f	2022f	2023f
Revenue (A\$m)	180	309	267
EBITDA (A\$m)	68	118	108
NPAT (A\$m)	29	55	50
Cashflow (A\$m)	-3	92	81
CFPS (Ac)	0	16	14
P/CFPS (x)	0.0	0.0	0.0
EPS (Ac)	7	13	12
EPS growth (%)	na	96%	-7%
PER (x)	2.7	1.4	1.5
EV:EBITDA (x)	2.1	0.5	na
EV:EBIT (x)	2.4	0.7	na
DPS (Ac) Dividend Yield (%)	-	-	-

Share Price Chart

Interest Cover (x)

ND:Net Debt+Equity (%) 50%



na

Disclaimer

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This analyst declares that he has a beneficial interest in Venturex Resources .

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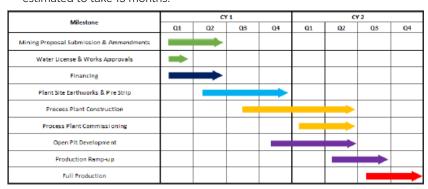
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A comparison with the Value Engineering Study is outlined below.

Sulphur Springs		DFS	Value Engineering Study
Mine inventory	mt	12.55	11.7
Capex	\$m	169	183
Throughput	mtpa	1.25	1
Zn grade	%	3.61	3.6
Cu Grade	%	1.45	1.4
Cu Recoveries	%	83.5	90
Zn recoveries	%	90.7	93
Payable Zn pa	kt	35	32
Payable Cu pa	kt	15	12
Mine life	yrs	10.5	11.7
C1 Operating cost per tonne	\$/t	120	129
Price Assumptions			
Zn	US\$/lb	1.2	1.15
Cu	US\$/lb	2.85	2.93
Exchange rate		0.72	0.76
Pre tax NPV8	\$m	472	338
Pre tax IRR	%	51	52
Post Tax NPV8	\$m	310	N/A
Post Tax IRR	%	39	N/A
Project payback	yrs	3.6	2.6

- A pre tax NPV8 of \$472m and IRR of 51% was calculated which is an uplift of \$134m from the VES pre tax NPV8 of \$328m
- Some of this is explained by the higher price assumptions in the DFS (A\$ Cu price up \$270/t and A\$ Zn price up \$345/t). However, the increased throughput to 1.25mpta from 1mtpa, additional mine inventory of 12.5mt vs 11.7mt in the VES offset by lower recoveries make up the balance.
- Significant metallurgical testwork has refined the process route for the various ore types: transitional, supergene and fresh. Previous work concentrated on just the primary ore. Testwork has shown that the supergene and transitional ore can be recovered and by selective mining, the plant can be campaigned as either a Cu rich/Zn poor ore or vice versa.
- Recoveries are split into primary and secondary by product metal recoveries. The secondary by product is classified as by product ores in a dominant Cu or Zn ore. Overall recoveries are Cu @ 83.5% and Zn @ 90.7%. This compares to the VES study which assumed 93% for Zn and 90% for Cu across all ore types.
- VXR has set a 18-24month ramp up to full production with construction estimated to take 15 months.



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Analysis

VXR has delivered an impressive DFS which confirms our very positive view on the potential of Sulphur Springs to become a long life, high margin base metal producer.

We are pleased to see it has addressed the major issues of recoveries for all ore types, optimal plant size and capex. This looks to be a high quality DFS with excellent disclosure.

Mining will be a combination of open pit for 4 yrs immediately followed by underground for a further six years. Overall strip ratio is 8.7:1 but with the pre strip this reduces to 7.7:1 and comprises a 3 stage pit. Underground mining will be through Modified Sub-Level Caving at Sulphur Springs.

No further work was done at Kangaroo Cave since the VES and this deposit is included in the back end of the mining schedule and only account for 1.8mt of the total 12.6mt inventory.

Financing remains the next key hurdle for VXR. With a market capitalisation of \$40m this will be challenging to balance the mixture of debt/equity without significant dilution to existing shareholders.

We have updated our model post the DFS and un risked we value Sulphur Springs based on our LT Cu and Zn price assumptions of US\$3.40/lb and US\$1.30/lb at \$413m after tax @ 10% dcf.

As the revenue split it basically 50/50 between Cu and Zn VXR report in \$/t and margins. On our price assumptions we have peak EBITDA of \$\$200m in year 4 and 5 as Zn and Cu production peaks at 54kt and 22kt respectively.

We now assume a 60% risk adjusted (previously 50%) and also assume that \$80m will be raised in equity at \$0.25/sh to fund the development.

The net effect is our valuation has increased slightly from \$0.59/sh to \$0.61/sh.

The dearth of quality, long life base metal projects could see VXR become a corporate target in due course. Regardless, we see value in the stock and maintain our Speculative Buy as there are few domestic base metal developments that offer long life, high margin production.

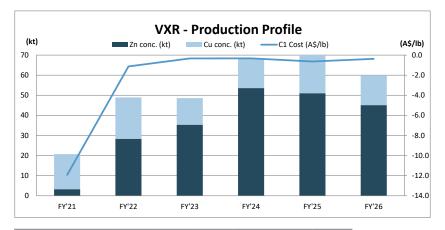
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Key Variables

Val/	/ Sh					Zinc \$				
	\$0.61	-20%	-15%	-10%	-5%	0%	5%	10%	15%	20%
	15%	\$0.49	\$0.50	\$0.51	\$0.52	\$0.53	\$0.54	\$0.55	\$0.57	\$0.58
	10%	\$0.52	\$0.53	\$0.54	\$0.55	\$0.56	\$0.57	\$0.58	\$0.59	\$0.60
SD	5%	\$0.54	\$0.55	\$0.56	\$0.57	\$0.58	\$0.59	\$0.61	\$0.62	\$0.63
AUDUSD	0%	\$0.56	\$0.58	\$0.59	\$0.60	\$0.61	\$0.62	\$0.63	\$0.65	\$0.66
A	-5%	\$0.59	\$0.61	\$0.62	\$0.63	\$0.64	\$0.65	\$0.67	\$0.68	\$0.69
	-10%	\$0.62	\$0.64	\$0.65	\$0.66	\$0.68	\$0.69	\$0.70	\$0.72	\$0.73
	-15%	\$0.66	\$0.67	\$0.69	\$0.70	\$0.71	\$0.73	\$0.74	\$0.76	\$0.77

Val/	/ Sh	Copper \$										
	\$0.61	-20%	-15%	-10%	-5%	0%	5%	10%	15%	20%		
	15%	\$0.47	\$0.49	\$0.50	\$0.52	\$0.53	\$0.55	\$0.57	\$0.58	\$0.60		
	10%	\$0.49	\$0.51	\$0.53	\$0.54	\$0.56	\$0.57	\$0.59	\$0.61	\$0.62		
SD	5%	\$0.52	\$0.53	\$0.55	\$0.57	\$0.58	\$0.60	\$0.62	\$0.63	\$0.65		
AUDUSD	0%	\$0.54	\$0.56	\$0.58	\$0.59	\$0.61	\$0.63	\$0.65	\$0.66	\$0.68		
PA	-5%	\$0.57	\$0.59	\$0.60	\$0.62	\$0.64	\$0.66	\$0.68	\$0.70	\$0.72		
	-10%	\$0.60	\$0.62	\$0.64	\$0.66	\$0.68	\$0.70	\$0.72	\$0.74	\$0.76		
	-15%	\$0.63	\$0.65	\$0.67	\$0.69	\$0.71	\$0.74	\$0.76	\$0.78	\$0.80		



Euroz Forecast	FY'21	FY'22	FY'23	FY'24	FY'25	FY'26
Zinc US/Ib	\$1.40	\$1.30	\$1.30	\$1.30	\$1.30	\$1.30
Copper US/lb	\$3.25	\$3.33	\$3.40	\$3.40	\$3.40	\$3.40
AUS/USD	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75

Our Share Price Sensitivity



Our Market Sensitivity

Valuation - \$0.61/sh

Price Target - \$0.60/sh

Bull Scenario - \$1.00/sh

VXR successfully fund and build Sulphur Springs in line with DFS study and become a mid cap base metal producer

Base Scenario - \$0.60/sh

Delivers a succesful DFS and gets all approvals in place.

Bear Scenario - \$0.10/sh

Zinc and Copper prices falls considerably and project does not get financed and stalls again..

Company Summary

VXR has a 100% in the Sulphur Springs project located in the Pilbara region of WA. After a successful drilling campagin in 2017, a new MD with significant operational experience was appointed in April'18 to transition the company to become a mid cap base metal producer. A DFS is due in the Sept'Q CY'18 with a likely development decision in early CY'19.

Disclaimer

The projections and information above is based on the set assumptions outlined. Due care and attention has been used in the preparation of this information. However actual results may vary from forecasts and any variation may be materially positive or negative. Forecasts by their very nature, are subject to uncertainty and contingencies, many of which are outside the control of Euroz.

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Market Statistics	#0.100	A & /- I-	Di		ar End	30 June	Profit and Loss (A\$m)		2020f	2021f		2023f
Share Price Issued Capital	\$0.180	A\$/sn		ctors ernan	NE	Charm	Zinc Sales Copper Sales		0	14 166	108 201	135 132
Fully Paid Ord	239.0	m		Saverimut		MD	Hedging Revenue		0	0	0	0
Opt (@ \$var)	216.0	m	A.Re	eilly		Ex Dir	Deferred Revenue Interest Income		0	0	0	0
			D. S	tralow		Dir	Other Income		0	0	0	0
							Total Revenue		0	180	309	267
Total Dil. FPOrd	239.0	m					Operating Costs Dep/Amort		0	106 11	185 24	153 25
Market Cap'n (dil)	\$43	m		reholders	;	100/	Writeoffs (explor) Corp O/H		0	0	0	0
Enterprise Value	\$42	m	NST	ent Pacifi	c Grn	19% 16%	Provisions EBITDA		0 -6	0 68	0 118	0 108
Debt	\$(2)	m		ision Opp			EBIT		-6	58	94	83
Cash	\$3	m					Interest Expense NPBT		16 -22	16 42	15 79	12 71
							Tax		-7	13	24	21
Asset Valuation				A\$m		A\$/sh	NET PROFIT		-15	29	55	50
Sulphur Springs (ri Corporate	sk adj 60	%)		248 (6)		0.44 -0.01	Cash Flow (A\$m)		2020f	2021f	2022f	2023f
Tax Losses				0		0.00						67
Other Res & Exploi	ation			20		0.04	Net Profit +Working Capital Adjus	st't	-11 O	37 O	72 0	0
Unpaid Capital (32	0 million	@ \$0.25	5)	80		0.14	- , ,		0		0.4	0.5
Debt Cash				-2 2		0.00 0.00	+Dep/Amort +Writeoffs/provisions		0	11 O	24 0	25 0
Cusii				_		0.00	+ Tax Expense		-5	16	31	29
Total				342		0.61	- Deferred Revenue - Tax Paid		0 -5	0 16	0 31	0 29
F/Cast Production	(A\$m)	2	020f	2021f	2022f	2023f	= Operating Cashflow		-11	47	96	93
Produced and Ship			0201	20211	20221	20231	-Capex + Development		120	50	4	12
Zn Conc. (kt)	рец		0	3.3	28.4	35.4	-Exploration		4	4	4	4
Cu Conc. (kt)			0	17.4	20.6	13.2	-Assets Purchased +Asset Sales		0	0	0	0
							+Other		Ö	0	0	0
Cash Cost (A\$/lb) Mining			_	0.26	0.24	0.21	= Investing Cashflow		-124	-54	-8	-16
Milling			_	0.13	0.16	0.18	+ Equity Issues (Rts,plc	opts)	84	0	0	0
Processing and G8	kΑ		-	0.26	0.24	0.22	+Loan Drawdown/Rece	eivable	100	0	0	0
By-Prod Cred			-	12.58	1.77	0.93	+Other -Loan Repayment		0	0	0	0
Total C1 Royalty			-	-11.93 0.06	-1.13 0.05	-0.33 0.05	-Dividends		Ö	0	Ō	0
Total Cash Cost			-	-11.87	-1.07	-0.28	= Financing Cashflow		184	0	0	0
AISC			-	-1.49	-0.19	0.42	Surplus/(Deficit)		49	-7	88	77
Assumptions							FX Adjustments CASH		0 52	0 45	0 133	0 210
Zn Price (US\$/lb)			1.45	1.40	1.30	1.30						
Cu Price (US\$/lb)			3.25	3.25	3.33	3.40	Balance Sheet (A\$m)		2020f	2021f	2022f	2023f
FX Rate (A\$1=US\$))		0.74	0.75	0.75	0.75	Assets		F2	45	177	210
Ratio Analysis (A\$	m)	2	020f	2021f	2022f	2023f	Cash Current Receivables		52 -	45 -	133	210
Cashflow			-131	-3	92	81	Other Current Assets Non-Current Assets		70	109	89	76
Cashflow per Shar	e		-3	Ō	16	14	Total Assets		122	154	222	286
Cashflow Ratio (x)			0	0	0	0	Liabilities					
Earnings			-11	37	72	67	Borrowings		100	100	100	80
Earnings per Share	2		0	7	13	12	Current Acc'ts Payable Other Liabilities		-	-	-	-
EPS Growth (%)			0%	na	96%	-7%	Total Liabilities		100	100	100	80
Earnings Ratio (x)			na	3	1	1						
Enterprise Value			103	156	67	-29	Net Assets		22	54	122	206
EV : EBITDA			na	2.09	1	na	Reserves and Resource	S				
EV: EBIT			na	2.44	1	na		Reserves (M,I & I)			
Net Debt : Net Del	ot+Equity	/ (%)	69%	50%	na	na		Tonnes	arade			
Interest Cover (x)	-1		-	-	-	-		mt	J. 440	Zn_%		Ag ppm
EBIT Margin (%)	0/2		na	35%	32%	33%	Sulphur Springs	8.4		3.1	1.4	14
Lioturn on Equity (-52%	67% 117%	59%	33% 43%						
Return on Equity (10)		0%	11/70	82%	43%	ĺ	Resources		ann a a		
Return on Assets (0.0	0.0	Culphur Chrings	Tonnes 17.4		grade	17	17
Return on Assets (Dividend (c/sh)			0.0	0.0	0.0		Sulphur Springs	17.4		4.2	1.5	
Return on Assets (Dividend (c/sh) Dividend payout re	atio		0	0	0	0	Whim Creek	8.5		1.9	1.3 1.1	23
Return on Assets (Dividend (c/sh)		1										

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