(ORN \$0.035) Speculative Buy



Analyst	Date	Price Target
Andrew Clayton	12 th February 2019	\$0.10/sh

Prieska Site Visit

Investment case

ORN has made excellent progress at Prieska. Its ambition to create a modern day mining operation remains intact. The potential scale, infrastructure and exploration upside is impressive. Financing, without significant equity dilution remains the key, but there are few projects of this scale and life currently controlled by juniors. We expect a significant portion of the capital will be debt funded. The DFS and mining rights are positive catalysts in the next few months and we still see potential for ORN to become a mid-cap base metal producer and be worth multiples of its current price.

Key points

- We visited Prieska on the 3rd of Feb'19, as one of four site visits that straddled the Annual Indabba African Mining Conference.
- It was hard not to be impressed with the scale, infrastructure, location, site
 personnel, work completed and exploration upside. Whilst many companies
 talk about 'belt scale opportunities', ORN genuinely has it.
- A scoping study, released just prior to Xmas, confirms the economic viability
 of redeveloping Prieska. The study envisaged a 2.4mtpa operation producing
 70-80kt of Zn and 22kt of Cu in concentrate for 10yrs with AISC costs of
 US\$0.55/lb (zinc metal sold). Peak funding of \$300-330m is estimated and
 an NPV12.5 of \$400-440m pre tax.

Price and FX assumptions	Unit	Estimated value	Financial	performance	Unit	Estimated valu
Metal price - Cu (USD3.00/lb)	USD/t	6,614	NPV (pre-	tax) @12.5% discount rate	AUD m	400 – 440
Metal price - Zn (USD1.30/lb)	USD/t	2,8661	IRR (pre-t	ax)	%	38
Exchange rate	ZAR:USD	14 : 1	Payback f	rom first production	years	
Exchange rate	ZAR:AUD	10 : 1	Undiscour	nted free cash flow (pre-tax)	AUD bn	1.2 – 1.3
Exchange rate	AUD:USD	1.4 : 1	Peak fund	ing	AUD m	300 - 330
Production metrics	Unit	Estimated value	Project co	ost metrics	Unit	Estimated valu
Life of Mine (Phase 1)	years	10	Average o	ash operating unit cost (C1)	AUD/t	8:
Treatment plant capacity	ktpa	2,400	All-in-sust	aining cost per unit ROM t	AUD/t	10
Phase 1 tonnage – ROM	mt	22	All-in-sust	aining cost per unit Zn eq t sold	AUD/t Zn	1,70
Phase 1 tonnage – processed	mt	22	All-in-sust	aining cost per unit Cu eq t sold	AUD/t Cu	4,94
Concentrate tonnage – Zn	mt	1.4	Price rece	ived (net of NSR) - Zn	AUD/t Zn	2,98
Concentrate tonnage – Cu	mt	0.9	Price rece	ived (net of NSR) - Cu	AUD/t Cu	8,67
Concentrate grade – Zn	%	50.0	All-in-sust	aining margin	%	4
Concentrate grade – Cu	%	24.0	Operating	breakeven grade (Zn eq)	%	4.
NSR as % of metal price – Zn	%	74.3				
NSR as % of metal price - Cu	%	93.7	Project ca	ash flows	Unit	Estimated valu
Metal sold (in concentrates) – Zn	kt	686	LoM net re	evenue	AUD m	3,45
Metal sold (in concentrates) - Cu	kt	206	LoM opera	ating costs	AUD m	1,74
Total sales as Zn equivalent	kt	1,285	Project sta	art-up capital expenditure	AUD m	360 - 39
Total sales as Cu equivalent	kt	442	Sustaining	capital expenditure	AUD m	65 - 7
Parameter Parameter		Source	Tonnage	Zn equivalent metal contained	d	
Mineral Resources (below Cut-off: 4.	.5% Zn Eq.)	Estimated	12%	8%		
Mine design losses		MSO	10%	11%		
esign stope dilution		MSO	10%	n/a		
Geological/pillar losses		Assumed	5%	5%		
Mining extraction factor (Mining reco	very factor)	Assumed	95%	95%		

- What was very clear from the site visit is that the mine life is highly likely to extend. Mineralisation remains open beyond the current resource and the most SE drilled hole in the Vardocube Deep Sulphide Resource returned 11.3m @ 4.4% Zn, 3.7% Cu, 0.51 g/t Au and 32.7 g/t AG from 1071m.
- In addition, the current resource of 30.5mt @ 3.77% Zn and 1.2% Cu excludes any historical pillar extraction (~8mt of ore in pillars). The scoping study assumes a 72% conversion of the total resource.

Orion Minerals Ltd	Year End 30	June
Share Price Issued Capital Ordinary Options (In money)		\$/sh m m
Options (O-O-M) Bridge loan Con note (@ 2.6cps) Total Diluted	156.5 1.3 232 2059	m m
Mkt Capital'n Enterprise Value Debt Cash Turnover 12 mth Hi-Lo Balance Date	72 73 4 3 1.03 m sh / day 4.8-1.7 cps June 30th	\$m \$m \$m

D.Waddell	NE Chrm
E.Smart	CEO, Mgr Dir
M.Hulmes	NE Dir
A.Haller	NE Dir
M. Palmer	NE Dir

Shareholders

Tembo Capital	22.90%
Independence Group NL	8.28%
Tarney Holdings	6.0%

Company Details

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Share Price Chart



Disclaimer

Euroz Securities declares that it has acted as underwriter to and/or arranged an equity issue in and/or provided corporate advice to Orion Minerals Ltd during the last year. Euroz Securities has received a fee for these services.

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- We went ~ 240m below surface via the decline and were able to inspect the 8.8m diameter shaft which is sitting above the water table. At first glance, the shaft and pipeworks looks in bad condition but this is due to the protective coating applied to the steel at construction. Once cleaned up it looked fine and tests revealed only a 7% degradation in the past thirty years. ORN has done extensive testing of the steel in the shaft both above and below the water table.
- Ground conditions underground were excellent with no sign of rock stress in areas that were last mined more than 25 yrs ago.
- The scoping study assumed 30% of the shaft will need to be refurbished.
- The site personnel were particularly impressive. COO, Walter Shamu, is ex WASM and has extensive operational experience throughout Africa and the team has achieved a lot (drilled 85,000m, completed a detailed scoping study, consolidated the ground position) in ~ 2yrs.
- The level of community engagement for a project at this stage of development was pleasing to see and ORN will introduce some skills training programs over 2019 to help prepare some of the Prieska residents (60km from site and a town of 16,000) ready for operations.
- The exploration package ORN has consolidated is excellent with little
 exploration in the past 30yrs. Prieska is rated as one of the top five VMS
 deposits in the world (historical mining + remaining resource) yet there has
 been no other deposits found. This is an anomaly in VMS deposits with the
 rule of thumb that the clusters (other deposits) will add up to the total of the
 major deposit.

Analysis

ORN's ambition to create a modern day mining operation at Prieska remains on track. With no township nearby or requirement to relocate communities and no legacy employment contracts, ORN is starting with a clean slate. However, it can leverage off the existing infrastructure which includes;

- Primary shafts and underground decline roadways
- Sealed access roads, 48km via bitumen to existing rail siding
- 175MW operational solar power plants
- 800km rail link to major bulk commodity ports
- Bulk water pipeline supplies to site

The reality is the entrenched large miners like Anglo etc couldn't do what ORN are proposing.

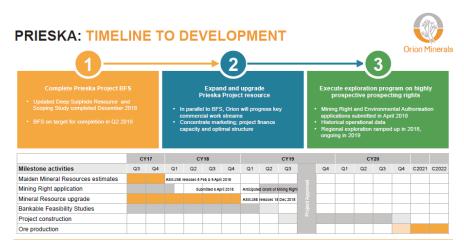
The BFS study is due in the 2^{nd} Q CY'19 and we believe any changes to the scoping will be minimal as the detail in the scoping study is probably more at a PFS level than a true scoping study. In addition, ORN are hopeful of the mining rights in the next 2-3 months as well.

The key is to fund Prieska without massive dilution to existing holders. We understand that ORN has had significant interest from development banks and Sth African banks and recently appointed Endeavour Capital to assist with the financing.

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ORN has set itself a ambitious timetable to fast track Prieska into production and is board approved decision in Sept/Oct'19 as outlined in the figure below



The exploration package is significant with little exploration activity over the past 30 years and now consolidated under ORN for the first time. The first drill hole at Ayoba, 5.3km SW of Prieska intersected 9.5m of massive sulphides grading 0.93% Zn and 0.63% Cu. This hole tested an EM plate with a 1.1km strike and 450m dip extent.

Our valuation, risk adjusted by 30% equates to \$0.10/sh for its 73.3% interest in Prieska. The key remains the ultimate funding package that ORN can negotiate.

We were impressed with the size, scale and opportunity at Prieska. There are few projects of this size in the hands of juniors and whilst Sth Africa is a tough place to do business, the progress and momentum that ORN has made puts them in good stead to ultimately achieve its ambition.

We maintain our Speculative Buy and believe as ORN continues to deliver then the discount to valuation will reduce.

Prieska - Euroz estimate of cashflow potential									
		FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25
Zinc	US/lb	1.14	1.29	1.35	1.30	1.30	1.30	1.30	1.30
Copper	US/lb	3.25	2.89	3.38	3.40	3.40	3.40	3.40	3.40
A\$1.0=US\$		0.75	0.78	0.74	0.75	0.75	0.75	0.75	0.75
Ore Mined	mtpa	0.00	0.00	0.87	2.40	2.40	2.40	2.40	2.40
Prod'n Zn	ktpa	0	0	26	71	71	71	71	71
Prod'n Cu	ktpa	0	0	8	22	22	22	22	22
C1 Cash Costs	US\$/lb	0.00	0.00	0.25	0.07	0.07	0.07	0.07	0.07
Revenue	A\$m	0	0	150	401	401	401	401	401
EBITDA	A\$m	0	0	68	209	209	209	209	209
EBIT	A\$m	0	0	68	155	155	155	155	155
Capex	A\$m	0	114	68	40	27	27	27	27
Net CF (pretax)	A\$m	0	-232	1	169	182	182	182	182
NPV (10% posttax)	A\$m	651							
IRR (AT, ungeared)	%	25%							

Valuation - Orion Minerals		
Prieska (30% risk aj)	A\$m	143
Exploration	A\$m	30
Aust Expln	A\$m	10
Corporate	A\$m	-10
WC & Inv	A\$m	0
Debt	A\$m	-4
Un paid capital	A\$m	2
Cash	A\$m	6
Total	A\$m	176
Total	A\$/sh	0.10

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Figure 1: Steel before being cleaned Source: Euroz



Figure 2: Steel after being cleaned Source: Euroz

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Figure 3: Looking down the 8.8m diameter shaft Source: Euroz



Figure 4: Prieska underground - note no meshing/bolting and good ground conditions

Source: Euroz

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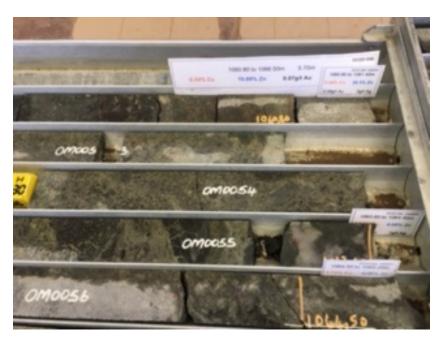


Figure 5: High grade drill core from Prieksa. Source: Euroz



Figure 6: Looking up the shaft winder Source: Euroz



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