#### **FAR EAST CAPITAL LIMITED**

Suite 24, Level 6, 259 Clarence Street SYDNEY NSW AUSTRALIA 2000 Mobile Telephone: +61 417 863187 Email: wgrigor@fareastcapital.com.au AFS Licence No. 253003 ACN 068 838 193



# Weekly Commentary

Analyst: Warwick Grigor

The Mining Investment Experts

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Chart comments at Friday's close

# WA Kaolin - commissioned and ramping up production

I suppose it would be reasonable to ask why so many mining stocks have fallen by so much over the last six months. After all, what has changed? You can look to the weakness in various LME tradable metals and subdued industrial activities that require these metals. You can look to lithium, rare earth and other alternative energy input commodities that have fallen in price. You can look to rising interest rates that have contributed to all of the above, as well as the suppressing effect on consumer demand and the need to divert funds away from the stock market and into higher mortgage repayments. Then we have the surging cost of domestic electricity.

All of these factors have a compounding effect on negative sentiment and it is sentiment that is the essential driver of markets in one direction or another. Some people think it is news flow, but that is only partially responsible, on a stock specific basis. The majority of stock market players don't have the ability, or access to reliable information, to make a fully informed decision. So this is where the emotional side of investing takes over. That is where sentiment and the trends are more influential. You shouldn't try to overthink what the market is doing. Certainly, we shouldn't be trying to apportion blame for share price weaknesses right now when the sentiment is so poor.

Lithium and rare earths are still hot spots in the market, but there is an amazing divergence in the performance of individual stocks. Some are doing very well, while others are being ignored. I'd like to think that is because the market is able to discern between the good and the bad, but naivety and promotion play a big part.

# WA Kaolin is ramping up

Continuing with the discussion of kaolin stocks that we introduced last week, we provide an update on the progress of WA Kaolin as it seeks to establish a long-life mine at its Wickepin Project, located 220 km SE of Perth. It is well down the path already, hoping to lift the production rate in the forthcoming December Half to achieve profitability for the first time.

## A typically slow start for industrial minerals co.

After a development and commissioning period that dragged on for 18 months longer than expected, WA Kaolin (WAK) is on the verge of reporting a positive cashflow from operations - hopefully by Christmas. It started commissioning the plant in September 2022, and by mid May 2023, the processing plant had achieved the 24 hr/day operating status. Though late, it was finished in-line with the \$18m budget.

It is rare for new plants to work perfectly when the switch is flicked for the first time, so WAK's performance could be called typical. Firstly, the kiln was overheating and the heat transfer feature wasn't optimally achieved. That required a redesign of the kiln. Secondly, the off-grid power system

didn't work properly to begin with. As anyone who has set up an off-grid system will know, the so called experts don't seem to be as good as they represent. In the case of Wickepin there needed to be remedial work undertaken on the configuration of the equipment and related software in order to get it to work properly.

The power system comprises three 550 kva generators and one 50 kva backup generator, all fed with diesel. Two generators operate at any one time with the third one being rotated into the mix at regular intervals. After 12 months of experience, the intention is to install a solar system with batteries. The generators will be converted to LNG fuel, still be used in tandem with the solar, when necessary. No solar system can work reliably without a fossil fuel backup. The capital cost of the exercise will be about \$5-6m, with most likely a private contractor providing the finance pursuant to a Power Purchasing Agreement. Power costs are expected to come off slightly, by 15% when this is undertaken.

Another aspect of the commissioning that requires further work is the optimisation of the product grades. The two coarser grades are achieving specifications and throughputs, but the two finer grade lines, which will account for approximately 70% of sales revenue, need more work. This might involve the expenditure of \$2m.

# The Wickepin Mine and Processing Plant

The operation is based on a very large kaolin orebody comprising a reserve of 30.5 Mt, within a 644 Mt resource, purchased from RIO in 1999. That gives a mine life of hundreds of years. One of the highlights is a very low level of contaminants such as iron oxide and titanium oxide. This means that the process flow sheet doesn't need to include chemical bleaching and that helps keep operating costs down.

WAK initially operated a small scale, 5 tph pilot plant at Kwinana, south of Perth. That led to the construction of a 25 tph commercial scale facility at Wickepin that enables the production of 200,000 tpa of saleable product. The eventual aim is to spend another circa \$16m to double production to 400,000 tpa, at which point the economies of scale should become apparent.

#### Opportunities to upgrade product, in time

WAK has initially embarked upon the dry kaolin production process as it was the lowest cost start-up option, but it is doing the research into a combined dry and wet facility. The dry plant can only achieve up to 70% passing 2 microns rather than the 95% passing two microns that can typically be achieved with a wet plant, which locks WAK out of the premium paper market. However, the Company could be up for an additional \$50-80m in capex to achieve this outcome. For the time being it is concentrating on the lower profit margin, commoditised market.

## The economics of a bulk scale operation

WAK sells its product on an fob (free on board) basis due to the volatility of shipping rates. These have varied from \$400 per container pre-covid to \$2,000 per container during covid, and more recently \$600 per container. Given that the average sales price is around \$200 pt, an operating mine could not handle this impost. So, freight and associated rate risks are covered by the buyers.

The high cost of freight means that shipment to Europe is not economic, so Asian markets are the focus. WAK has already established relationships with about 40 active customers, though the smaller number of 15 bulk buyers constitute the greater majority of sales.

WAK is expecting to receive revenue of \$280 pt once everything settles down, with anticipated operating costs of \$200 pt. At a production rate of 200,000 tpa, this could generate positive cash flow of \$16m. This would place the company on a cash flow multiple of 3-4x. That sales price is probably at least 50% lower than prices sought by Andromeda and Suvo Strategic, but these companies will be operating at lower scales.

A useful addition to the Wickepin plant that will boost profit margins is a \$2.5m state of the art bagging facility from Germany. This will enable the packaging and sale of 20 kg bags with a higher profit margin that one tonne bulk bags. It is currently being commissioned.

#### The Bottom Line

The slow start up would have been a disappointment for the more optimistic shareholders, but that should be fully factored into the share price today. From this point forward we expect that share price movements will be determined by news relating to the improvements and optimisation referred to above.

If everything goes according to plan over the next six months, and the \$16m p.a. cash generation figure is achieved, there is good upside in the share price. Cash levels as at 31/3/23 were a modest \$2.7m. While there is no immediate intention to go to the market for more funding, one should not discount the possibility ... especially if the share price firms up from here.

The current debt level stands at \$23.4m (unsecured) with an interest rate of only 3.2%, but this is owed to the largest

shareholder group. Repayments are linked to cashflow so it is expected to be more user friendly than standard bank or third party debt.

Longer term the share price will be influenced by the potential for doubling the capacity to 400,000 tpa, the financing method and the potential impact on profitability of the installation of a wet plant. On the green technology front there may be the possibility of sales of metakaolin to the cement industry, but tis requires further research. There is upside potential for growth.

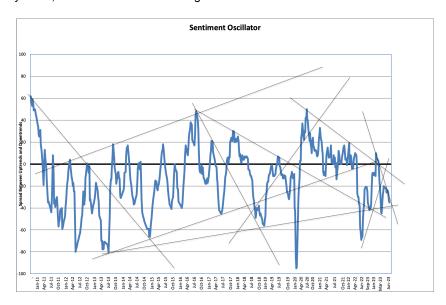
The shares continue to be trapped in a downtrend that commenced on 30/7/21, when the shares were  $24\phi$ . They are now 50% below that peak, so the performance has probably been in-line with, or better, than most junior miners on the ASX.

# Beware of the new Aboriginal Heritage Act

While we are suffering from an annoying and constant daily barrage of propaganda as to why we should vote in favour of The Voice, there is something else that directly affects the mining and exploration sector in Western Australia. The 1st July sees the revised Aboriginal Heritage Act take effect. I did receive an email that attempted to explain the implications, but it was very complicated and confusing.

Going straight to something that is easy to understand, there is the introduction of a 7% tax on exploration undertaken on certain Aboriginal land. I don't have details of how wide reaching this will be, but the idea of having to pay Aboriginal communities an impost of 7%, based on expenditure, is an anathema to me. It is not a royalty on production - that is something that comes later - it is an upfront payment, whether or not there is any discovery or income eventually generated. Effectively, investors in the small exploration stocks will have to stump up even more high risk capital for these companies. That is a disincentive. I thought WA was supposed to be a low geopolitical risk state! Just remember that the Labor Party, Federal or State, is more likely to pass legislation that is detrimental to the mining sector. Remember the Resources Rent Tax.

We have added Midas Minerals (MM1) to our chart coverage.



**Sentiment Oscillator:** Sentiment dropped again last week. There were 20% (21%) of the charts in uptrend, and 55% (54%) in downtrend.

# **Detailed Chart Comments**

NB. Only the bold comments have been updated. Comments in grey type are from previous weeks and will be less relevant. Please note that this list is a cross section of the market. It IS NOT a list of recommendations.

Indices	Code	Trend Comment	
All Ordinaries	XAO	on support line in wedge	
Metals and Mining	XMM	failed at resistance line	
Energy	XEJ	edging higher	
Information Technology	XIJ	pullback	
Stocks	Code	Trend Comment (updated comments in bold)	Main Interest
5EA Advanced Materials	5EA	breached downtrend, then slumped	boron
92 Energy	92E	stronger, within a longer term downtrend	uranium
A-Cap Energy	ACB	still at lows	uranium
Alpha HPA	A4N	new high	HPA
Adriatic Resources	ADT	off its highs	zinc, polymetallic
Advance Metals (was Pacific American)	AVM	back to lows	coal, gold exploration
Alkane Resources	ALK	testing uptrend	gold
Alicanto Minerals	AQI	sideways at lows	base metals, silver, gold
Almonty Industries	AII	weaker	tungsten
Altech Chemical	ATC	failing at resistance line	HPA, anodes
Anteotech	ADO	back into downtrend	silicon anodes, biotech
Alto Metals	AME	still in downtrend	gold exploration
American Rare Earths	ARR	down steeply	rare earths
Antilles Gold	AAU	rising	gold
Anax Metals	ANX	sideways below 8c	copper
Arafura Resources	ARU	down	rare earths
Ardea Resources	ARL	new low	nickel
Aurelia Metals	AMI	back to lows	gold + base metals
Australian Rare Earths	AR3	heavy correction on placement	rare earths
Arizona Lithium	AZL	new low	lithium
Azure Minerals	AZS	another surge higher	nickel exploration
BHP	BHP	fallen to support line	diversified, iron ore
Barton Gold	BGD	resuming uptrend	gold exploration
Beach Energy	BPT	down	oil and gas
Bellevue Gold	BGL	off its highs	gold exploration
Benz Mining	BNZ	surging out of downtrend	gold
Black Cat Syndicate	BC8	recapturing uptrend	gold
BMG Resources	BMG	down	gold exploration
Boab Metals	BML	at resistance line	silver/lead
Buru Energy	BRU	sideways	oil

Los Cerros	LCL	down	gold exploration
Li-S Energy	LIS	breached downtrend	Lithium sulphur battery technology
Lion One Metals	LLO	slump	gold
Lindian Resources	LIN	off its highs	rare earths + bauxite
Lepidico	LPD	sideways at lows	lithium
Kingfisher Mining	KFM	off its lows	rare earths
Krakatoa Resources	KTA	new low	rare earths
Kalina Power	KPO	new low	power station additive
Kaiser Reef	KAU	sideways through downtrend	gold
Jindalee Resources	JRL	at lows	lithium
Jervois Mining	JVR	breached new uptrend	nickel/cobalt
Ionic Rare Earths	IXR	down	rare earths
ioneer (was Global Geoscience)	INR	just holding uptrend	lithium
Iluka Resources	ILU	still at highs	mineral sands
Hillgrove Resources	HGO	rising gently	copper
Highfield Resources	HFR	down	potash
Heavy Minerals	HVY	testing uptrend down	garnet
Hazer Group	HZR		hydrogen
Hastings Technology Metals	HAS	breached uptrend new low	gold exploration rare earths
Hamelin Gold	G6M HMG	down	tungsten gold exploration
Great Boulder Resources  Group 6 Metals	GBR	sideways to lower	gold exploration
Gold Road  Great Roulder Resources	GOR	breaching support line	gold
Genmin Cold Bood	GEN	testing downtrend	iron ore
Genesis Minerals	GMD	trying to breach downtrend	gold
Galena Mining	G1A	at lows	lead
FYI Resources	FYI	recovered to meet resistance line	HPA
Fortescue Metals	FMG	rising again	iron ore
First Graphene	FGR	down	graphene .
Evolution Mining	EVN	off its highs	gold
Evolution Energy	EV1	down	graphite
Euro Manganese	EMN	new low	manganese
EQ Resources	EQR	on support line	tungsten
Empire Energy	EEG	risen to resistance line	gas
Emerald Resources	EMR	rising, new high	gold
Ecograf	EGR	new low	graphite
Dateline	DTR	correcting lower	rare earths
Cyprium Metals	CYM	suspended	copper
Cobalt Blue	COB	risen to resistance line, then slump	cobalt
Celsius Resources	CLA	rising on takeover bid	copper
Castile Resources	CST	still in downtrend	gold/copper/cobalt
Carnaby Resources	CNB	breached support line, down	copper
Caravel Minerals	CVV	on support line	copper
			gold

Far East Capital Ltd - 1 July 2023			Weekly Commentary
Lotus Resources	LOT	down	uranium
Lucapa Diamond	LOM	down again	diamonds
Lunnon Metals	LM8	testing uptrend	nickel
Lynas Corp.	LYC	down	rare earths
Mako Gold	MKG	sideways	gold exploration
Marmota	MEU	drifting lower	gold exploration
Matador Mining	MZZ	down	gold exploration
Mayur Resources	MRL	new low, then strong rebound	renewables, cement
Meeka Gold	MEK	at lows	gold
Megado Gold	MEG	breached uptrend then rebound	rare earths, gold exploration
MetalsX	MLX	down	tin, nickel
Meteoric Resources	MEI	rising again	rare earths
Metro Mining	ММІ	rising	bauxite
Midas Minerals	MM1	steeply higher	lithium
Musgrave Minerals	MGV	up on takeover approach	gold exploration
Nagambie Resources	NAG	down	gold, antimony
Neometals	NMT	breached downtrend	lithium
Newfield Resources	NWF	down	diamonds
Northern Star Res.	NST	testing uptrend	gold
Nova Minerals	NVA	collapse on3 gpt grade, 9.9 Moz	gold exploration
Orecorp	ORR	off its lows	gold development
Pacific Gold	PGO	breached short term uptrend	gold exploration
Pantoro	PNR	down	gold
Panoramic Res	PAN	down	nickel
Parabellum Resources	PBL	down	rare earths
Patriot Battery Metals	PMT	rising again	lithium
Peak Resources	PEK	down	rare earths
Peninsula Energy	PEN	rising	uranium
Perseus Mining	PRU	down	gold
Poseidon Nickel	POS	sideways	nickel
Provaris Energy	PV1	sideways	hydrogen
QMines	QML	new low	copper
Queensland Pacific Metals	QPM	long term down	nickel/cobalt/HPA
RareX	REE	down	rare earths, phosphate
Regis Resources	RRL	uptrend breached	gold
Renergen	RLT	breaching steepest downtrend	gas, helium
Richmond Vanadium	RVT	sideways	vanadium
RIO	RIO	recovery, but within a downtrend	diversified, iron ore
Rumble Resources	RTR	secondary downtrend	gold exploration
S2 Resources	S2R	sideways	gold exploration
Sandfire Resources	SFR	down	copper
Santos	STO	softer	oil/gas
Sarama Resources	SRR	down to new low	gold exploration
Sarytogan Graphite	SGA	down	graphite

				Treeing commentary
Siren Gold	SNG		new low	gold exploration
South Harz Potash	SHP		down again	potash
Southern Cross Gold	SXG		down	gold exploration
Southern Palladium	SPD		down	PGMs
Stanmore Coal	SMR		down	coal
Strandline Resources	STA		down	mineral sands
Sunstone Metals	STM		down	gold/copper exploration
Suvo Strategic Minerals	SUV		new low	kaolin
Talga Resources	TLG		holding support line	graphite
Tamboran Resources	TBN		sideways	gas
Technology Metals	TMT		down	vanadium
Theta Gold Mines	TGM		sideways	gold
Thor Mining	THR		sideways	gold exploration
Tietto Minerals	TIE		still down	gold
Vanadium Resources	VR8		drifting lower	vanadium
Venture Minerals	VMS		down	tin, tungsten
Vintage Energy	VEN		down	gas
Voltaic Strategic Resources	VSR		off its highs	REO + lithium
West African Resources	WAF		down	gold
West Cobar	WC1		down	rare earth + lithium
Westgold Resources	WGX		off its highs	gold
West Wits Mining	WWI		at lows	gold
Whitehaven Coal	WHC		bouncing off lows	coal
Xantippe Resources	XTC		down	lithium
Zenith Minerals	ZNC		down	gold exploration
Totals	20%	29	Uptrend	
	55%	78	Downtrend	
		142	Total	

#### **Guides to Chart Interpretations**

- Charts usually go pass from one trend (up or down) into the other via a period of indecision and uncertainty during which the trend can either recover or change. This period is signified by the orange colour. The orange represent both the greatest risk and greatest reward possibilities.
- · Once a chart is in confirmed up or downtrends it is not uncommon for 10-20% of that trend to have already transpired.
- There are trends within trends. The focus of this chart review is the immediate trend that affects the sentiment i.e. it can be a downtrend within a long-term uptrend.
- · Not every chart warrants a new comment every week. The new comments are in bold type. Grey type comments may be dated.
- Individual charts provide a single view. It is valuable to look at charts of other companies in similar commodities, and the overall sentiment is also very
  valuable. Not many stocks can swim against the tide.
- We periodically add or delete charts, some times for obscure reasons. If a chart consistent gives poor signals or is very erratic, we may delete it. Sometimes we add a chart because we want to see what all the fuss is about. We do have a preference for charting stocks that we cover in our research as well.
- Errors and omissions may occur from time to time, especially in fast moving markets.

Amber Lights in Tables: Just a reminder if when the amber light is used in the table – it is when the charts are ambiguous or when there is a change of trend taking place. If a chart is breaching a downtrend it can either be a positive sign or a trap. Only once it has done more work can it be confirmed as a new uptrend. Maybe it is a new uptrend (or conversely a new downtrend); the risk takers can decide to jump on board early (or sell). They will maximise their profits (or minimise their losses if indeed it is the start of the new uptrend (downtrend). More risk-averse investors should wait a little longer, being prepared to give up some of the gains in return for greater certainty.

Weightings of Sectors Represented in the Company Charts						
Sector	No. of Companies	Weighting				
Gold Exploration	21	14.8%				
Gold	21	14.8%				
Rare Earths	15	10.6%				
Oil/Gas	9	6.3%				
Nickel	7	4.9%				
Copper	9	6.3%				
Lithium	10	7.0%				
Iron Ore/Manganese	5	3.5%				
Graphite/graphene	5	3.5%				
Uranium	5	3.5%				
Silver	4	40.0%				
Tungsten	3	2.1%				
Mineral Sands	2	1.4%				
Vanadium	3	30.0%				
Zinc/Lead	2	1.4%				
Coal	2	1.4%				
Potash/Phosphate	2	1.4%				
Bauxite	2	1.4%				
Tin	2	1.4%				
Cobalt	1	0.7%				
Diamonds	2	1.4%				
Other	10					
Total	142					

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