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

30 August 2025

Chart comments updated on Friday's close

Feature on Ark Mines; rare earths are back in the spotlight

Following the Money into Rare Earths

As much as I like gold, there has definitely been a loss of momentum over recent months. A number of juniors have been embarking on production plays that have been aspirationally attractive, but take time to pass through the commissioning phase and prove their merit. The level of success achieved will influence investor appetite for more of the same. Meanwhile, the gold price has hit US\$3,400/ oz again but the punters are taking this in their stride.

If you subscribe to the maxim that you should "follow the money", then you will be looking more closely at the rare earths sector. We have seen the bottom here as the Chinese have been relaxing the stranglehold on prices. Trump continues to talk of the rare earth importance and his rhetoric is bringing in players that might not normally participate in such high risk sectors.

We should be fully aware of all the technical issues with the wide range of styles of deposits and trying to get into production. Whether to produce a concentrate or move further downstream to produce refined products has all sorts of implications for timeline and capital expenditures.

We should be aware that rare earths are not rare. How many projects can get off the ground in time to secure a place on the supply curve? Will there be a tsunami of new producers and an oversupply and if so, who will be good enough to survive in an ordinary pricing environment.

These are all important issues that companies need to consider but for stock market players it starts to get too serious. Instead, look to where the money is flowing. At the big end we have just seen a \$750m raising by Lynas. A week ago we saw one of my favourite RE stocks, Lindian, bank \$91m in a placement undertaken after the share price had more than doubled. The money is flowing into the quality end of the market but what about the rest of the pack? There will be some spillover, as evidenced by the events occurring at Ark Mines (AHK), a company that is emerging as a real contender with government support in Queensland. We have covered the stock previously with a favourable perspective, but it seems to be gathering momentum given the news flow and the share price performance last week.

Ark Mines Presentation Last Wednesday

Back in the 1990s, Ark's Sandy Mitchell project ground was prospected for uranium. The scintillometer went crazy but it wasn't uranium that set it off, it was monazite. At the time monazite was considered to be a radioactive nuisance but today we now know if for its association with rare earths. That monazite forms the basis for Ark claiming it will be an early producer of rare earths and heavy minerals as early as the December Half, 2027. The Government support announced last week promises to be a real boost to the company, if the market reaction was any guidance. The

share price jumped from 18.5ϕ to a high of 53.5ϕ , before closing the week at 35ϕ .

Queensland Government Support - \$4.5m

The big announcement was the \$4.5m investment in Ark by the QIC Critical Minerals and Battery Technology Fund. This comprises \$4m up-front funding tied to royalties based on future product sales from the Sandy Mitchell Project and a \$500,000 equity investment at 16.7¢ a share. So, having done its homework, the Qld Government is putting up money. The funding will be used for Stage 3 drilling and the Pre-Feasibility study due for release in Q1 2026.

Very large, simple near surface deposit.

One of the more appealing features of the Sandy Mitchell deposit is its simplicity. Located below Palmerville on the Mitchell River, 203 km NW of Cairns in North Queensland, it is technically a placer sand deposit that lies within 12m of the surface. That means zero strip ratio. Exploration has been easy and low cost with air-core and auger drilling methods. As you would expect of sand deposits, the material is unconsolidated and highly weathered, sufficiently so that there is no need for blasting, crushing or grinding.

The Measured Mineral Resource estimate is currently 71.8 Mt at 1,732 ppm monazite equivalent using a 700 ppm MzEq lower cut-off grade. This constitutes only 4.5% of the Exploration Target of 1.3 to 1.5 Bt at 1,250-1,490 Mb. A drill program is underway with expectations the the MRE will increase to 330 Mt. Other heavy minerals in the suite include xenotime, zircon, garnet, rutile and ilmenite.

Positive metallurgical test work undertaken to date

Early stage test work has shown that 50% of the sand material can be screened off with +2mm screening. Then, simple gravity separation concentrates the product further and eventually ARK ends up with a 51.9% TREO concentrate. More test work is to be undertaken as part of the PSF study.

Simple mining and processing

It would be difficult to find a more technically simple project when it comes to mining and processing. The shallow, low impact mining is based on no blasting, no overburden and no clay profiles. There will be no chemicals, salts or acids in the gravity only processing plant. Mobile screens will remove waste in the field prior to running the product through wet spirals, semi or fully mobile, then it goes through an offsite separation plant. Throughput could be very large, at 20-2 Mtpa. Rehabilitation of the land will be continuous as mining progresses along the length of the orebody.

Early Cost Estimates in Scoping Study

Ark released a Scoping Study last December, disclosing an estimated capex of A\$120-150m. Site operating costs were estimated to be a very low \$3-4 pt, but trucking the concentrate to port will cost \$110-125 pt. EBITDA was estimated at \$45-\$53 pa and capex payback, 3-4 years.

While monazite is the topical product it is a multicommodity deposit, as shown in the table of grades below. Grades and mineral recovery rates were released as;

Product	In-situ Grade	Recovery Rates
Zircon	686 gpt	55-58%
Rutile	107 gpt	2-3%
Xenotime	117 gpt	40-44%
Monazite	120 gpt	40-44%
Garnet	3250 gpt	55-58%

The Bottom Line

Ark's Sandy Mitchell Project stands out for its relative simplicity both in the geology and the gravity recovery methods when compared to ionic clays and hard rock deposits. Unlike many of these others, it seems to be very environmentally benign, something that will be useful in the permitting. If it choses to only go to the simple concentrate stage, with lower margins than what could be expected for a refined product, it will have to compete with other

companies coming on-stream. However, that doesn't seem to be a problem just now.

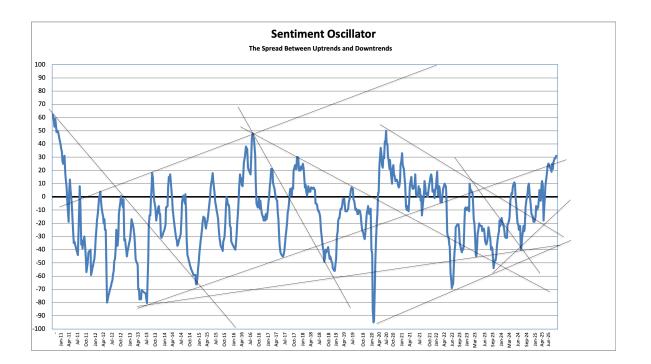
The market is only \$23m with the share price at 35¢. That means it is priced at only option value

Opportunity to take Terrain Shortfall

Last week we discussed the merits of Terrain Minerals, with the bottom line comment reading;

"Terrain is certainly an interesting grass roots exploration play in a topical area of WA. If you look at the map its ground appears to be quite strategically located in a trend where Capricorn Metals is seeking to maximise its control. To the south Capricorn has the Mt Gibson Gold Project. To the north, Capricorn is proceeding with a bid to take out Warriedar Resources with its resource of about 1 Moz. If Terrain starts to come up with more good results on the Monza Gold Prospect, it may find that Capricorn swoops on it as well."

The Terrain CEO has advised me that it proposes to place the shortfall from the recent entitlement issue next week. That was an issue of shares at 0.3¢ with a 1 for 1 attached free option, exercisable by June 2027, at 0.5¢. If you are interested in taking some of this, and you are a s708 investor, contact me and I will try to arrange an allocation



Sentiment Oscillator: Sentiment continues in a strong uptrend. There were 53% (50%) in uptrend and 22% (21%) in downtrend at the close of the week.

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	at new highs	
Metals and Mining	XMM	new high	
Energy	XEJ	surge out of downtrend	
Stocks	Code	Trend Comment (updated comments in bold)	Main Interest
Aguia Resources	AGR	new low	phosphate, gold
Alkane Resources	ALK	new high	gold
Alicanto Minerals	AQI	spiked higher	base metals, silver, gold
Alligator Energy	AGE	down after placement	uranium
Almonty Industries	All	surge to new high	tungsten
Alpha HPA	A4N	improving	HPA
American Rare Earths	ARR	correcting lower	rare earths
Anax Metals	ANX	new low after placement	copper
Andean Silver	ASL	rising again	silver
Arafura Resources	ARU	rising	rare earths
Ardea Resources	ARL	ticked higher	nickel
Arizona Lithium	AZL	new low	lithium
Astral Resources	AAR	back to support line	gold
Aureka	AKA	still in downtrend	gold exploration
Auric Mining	AWJ	down	gold
Aurora Energy Metals	1AE	spike out of downtrend	uranium
Aurelia Metals	AMI	collapse on guidance announcement	copper + base metals
Aurum Resources	AUE	rising	gold
Australian Gold and Copper	AGC	breached downtrend	base metals, silver, gold
Australian Rare Earths	AR3	spiked through downtrend	rare earths
Australian Strategic Materials	ASM	weaker	rare earths
BHP	BHP	new high	diversified, iron ore
Ballard Mining	BM1	new IPO	gold
Ballymore Resources	BMR	rising	gold exploration
Barton Gold	BGD	breaching downtrend	gold exploration
Beach Energy	BPT	at resistance line	oil and gas
Beetaloo Energy	BTL	strongly higher	breached down trend
Bellevue Gold	BGL	sideways	gold
Besra Gold	BEZ	still down	gold
Black Cat Syndicate	BC8	breaching downtrend	gold
Boab Metals	BML	spike then a placement	silver/lead
Brazil Critical Minerals	BCM	new low - two tranche plus 1 for 3	rare earths
Brazilian Rare Earths	BRE	breached uptrend	rare earths
Brightstar Resources	BTR	ST down	gold
Caravel Minerals	CVV	down	copper

rai East Capital Liu - 30 August 2023			vveekiy Commenta
Carnaby Resources	CNB	breaching uptrend	copper
Castile Resources	CST	testing downtrend	gold/copper/cobalt
Catalyst Metals	CYL	surge higher	gold
Cazaly Resources	CAZ	gentle uptrend	rare earths
Centaurus Metals	СТМ	sideways	nickel/cobalt/HPA
Challenger Gold	CEL	surge higher	gold
Cobalt Blue	СОВ	down	cobalt
Cyprium Metals	CYM	testing uptrend	copper
Emerald Resources	EMR	back to highs	gold
Emmerson Resources	ERM	new high	gold
EQ Resources	EQR	stronger	tungsten
Estrella Resources	ESR	down	manganese
Evolution Mining	EVN	testing uptrend	gold
Felix Gold	FXG	pullback	gold exploration, antimony
Finder Energy	FDR	uptrend	oil/gas
First Graphene	FGR	new uptrend	graphene
Flagship Minerals	FLG	sideways	gold
Genesis Minerals	GMD	breached uptrend	gold
Globe Metals and Mining	GBE	surge higher	niobium
Gold 50	G50	spike higher on discovery	gold exploration + gallium
Golden Horse	GHM	breached downtrend	gold exploration
Great Boulder Resources	GBR	steeply higher	gold exploration
Green360 Tech (was Suvo)	GT3	down	kaolin
Hamelin Gold	HMG	down	gold exploration
Heavy Minerals	HVY	new high	garnet
Hillgrove Resources	HGO	still in downtrend	copper
Iltani Resources	ILT	down	antimony
Iluka Resources	ILU	strongly higher	mineral sands
Jupiter Mines	JSM	improving	manganese
Kairos Minerals	KAI	testing uptrend	gold
Kaiser Reef	KAU	sideways	gold
Kalamazoo Resources	KRZ	rising	gold
Kalina Power	KPO	new uptrend	carbon sequestration
Koba Resources	KOB	back to lows	uranium
Larvotto Resources	LRV	sideways through downtrend line	gold, antimony
Lindian Resources	LIN	bouncing	rare earths + bauxite
Lotus Resources	LOT	rising again	uranium
Lynas Corp.	LYC	rising again	rare earths
•	MPK	breached uptrend	gold exploration
Marmota	MEU	spiked higher on titanium discovery	gold/uranium exploration
	MAT	strongly higher	gold
Mayur Resources	MRL	sideways	renewables, cement
Meeka Gold	MEK	uptrend	gold
MetalsX	MLX	back to support line	tin, nickel

Meteoric Resources	MEI	testing uptrend	rare earths
Metro Mining	ММІ	rising again	bauxite
Midas Minerals	MM1	new high	lithium
Native Mineral Resources	NMR	testing uptrend	gold
New Murchison	NMG	rising	gold
New World Resources	NWC	rising	copper
Nexgen Energy	NXG	sideways through uptrend	uranium
Northern Star Res.	NST	rising again	gold
Nova Minerals	NVA	breaching downtrend	gold exploration
Novo Resources	NVO	sideways	gold exploration
Omega Oil	OMA	rising	oil
Pacific Gold	PGO	back to lows	gold exploration
Paladin Energy	PDN	breached downtrend	uranium
Pantoro Gold	PNR	reconstruction 17 into 1	gold
Patriot Battery Metals	PMT	strongly higher	lithium
Peninsula Energy	PEN	trading again after large placement	uranium
Perseus Mining	PRU	correcting lower	gold
QMines	QML	rising	copper
Queensland Pacific Metals	QPM	turning down again	nickel/cobalt/HPA
Regis Resources	RRL	rising	gold
Renergen	RLT	surged higher	gas, helium
Richmond Vanadium	RVT	down	vanadium
RIO	RIO	at resistance line	diversified, iron ore
RTG Mining	RTG	down	copper
Rumble Resources	RTR	breached downtrend	zinc exploration
S2 Resources	S2R	spike then pullback	gold exploration
Santana Minerals	SMI	sideways	gold
Santos	STO	spike higher on takeover approach	oil/gas
Sarytogan Graphite	SGA	rising	graphite
Scorpion Minerals	SCN	testing downtrend	gold exploration
Siren Gold	SNG	improving	gold exploration
Southern Palladium	SPD	spike then a placement	PGMs
Stanmore Coal	SMR	improving	coal
St George Mining	SGQ	rising again	rare earths, niobium
Stellar Resources	SRZ	gently improving	tin
Sun Silver	SS1	higher	silver
Talga Resources	TLG	down	graphite
Tamboran Resources	TBN	testing downtrend	gas
Terra Uranium	T92	spike on rare earths deal	uranium
Theta Gold Mines	TGM	rising again	gold
Toro Energy	TOE	breaching downtrend	uranium
Torque Metals	TOR	breached downtrend	gold exploration + lithium
Toubani Resources	TRE	new high	gold
Trigg Minerals	TMG	consolidating	antimony

Verity Resources	VRL		falling again	gold
Vertex Minerals	VTX		breached downtrend	gold
Waratah Minerals	WTM		spiked higher	gold exploration + gallium
Westgold Resources	WGX		back to highs	gold
West Wits Mining	WWI		rising	gold
Whitehaven Coal	WHC		new uptrend	coal
White Cliff Minerals	WCN		rising gently	copper exploration
WIN Metals	WIN		gentle uptrend	gold
Yandal Resources	YRL		recovering	
Totals	53%	70	Uptrend	
	22%	29	Downtrend	
		132	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	36	27.3%		
Gold Exploration	18	13.6%		
Copper	13	9.8%		
Rare Earths	10	7.6%		
Uranium	10	7.6%		
Oil/Gas/Hydrogen	7	5.3%		
Iron Ore/Manganese	4	3.0%		
Lithium	2	1.5%		
Graphite/graphene	3	2.3%		
Nickel	3	2.3%		
Silver	3	2.3%		
HPA/Kaolin	2	1.5%		
Tungsten	2	1.5%		
Tin	2	1.5%		
Antimony	3	2.3%		
Coal	2	1.5%		
Niobium	2	1.5%		
Potash/Phosphate	1	0.8%		
Vanadium	1	0.8%		
Zinc/Lead	1	0.8%		
PGMs	1	0.8%		
Mineral Sands	1	0.8%		

Bauxite	1	0.8%	
Cobalt	1	0.8%	
Other	3	2.3%	
Total	132		

FEC Disclosure of Interests: It is a requirement of ASIC that holders of AFS licences prominently disclose any conflicts of interest. At all times readers should be aware that Far East Capital Ltd is an active investor. It shares its research and opinions <u>free of charge</u> to other investors and it aims to do so on an ethical basis. Accordingly, when it is writing about stocks in which it holds interests, these will be disclosed. The author is chairman of First Graphene and one of the largest shareholders, through a number of entities. Over the last three years FEC has received capital raising fees from a number of companies but it does not receive payment for research. See individual disclosure notes in the body of the Weekly where they are relevant. Its primary business is investing and managing its own money, but it does occasionally raise money for resource companies.

Disclaimer: This Research Report has been prepared exclusively for Far East Capital clients and is not to be relied upon by anyone else. In compiling this Commentary, we are of necessity unable to take account of the particular investment objectives, financial situation and needs of any of our individual clients. Accordingly, each client should evaluate the recommendations obtained in this Commentary in the light of their own particular investment objectives, financial situation and needs. If you wish to obtain further advice regarding any recommendation made in this Commentary to take account of your particular investment objectives, financial situation and needs, you should contact us. We believe that the advice and information herein are accurate and reliable, but no warranty of accuracy, reliability or completeness is given and (except insofar as liability under any statute cannot be excluded) no responsibility arising in any other way for errors or omissions or in negligence is accepted by Far East Capital Limited or any employee or agent. For private circulation only. This document is not intended to be an offer, or a solicitation of an offer, to buy or sell any relevant securities (i.e. securities mentioned herein or of the same issuer and options, warrant, or rights with respect to or interests in any such securities). We do not guarantee the accuracy or completeness of the information herein, or upon which opinions herein have been based. At any time we or any of our connected or affiliated companies (or our or their employees) may have a position, subject to change, and we or any such companies may make a market or act as principal in transactions, in any relevant securities or provide advisory or other services to an issuer of relevant securities or any company therewith. Unless otherwise stated all views expressed herein (including estimates or forecasts) are solely those of our research department and subject to change without notice. This document may not be reproduced or copies circulated without authority. Copyright © Far East Capital Ltd 2023.