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Weekly Commentary

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The Mining Investment Experts

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Chart comments updated on Friday's close

Hillgrove is a promising copper recovery story

The news that BHP is walking away from the bid for Anglo America will likely lead to reduced enthusiasm for copper stocks in the short term, though the general thematic remains in place. This chapter of the copper story has run its course.

This week we feature Hillgrove, a copper producer that has recently restarted the Kanmantoo Copper Mine in South Australia. It should benefit from the renewed investor interest in copper, and the stronger copper price we have been seeing. The is also a small price on the specialist copper explorer, Copper Search.

Hillgrove on Track to be a Profitable Copper co.

I've been following the Kanmantoo Copper Mine story since BH South owned it in the 1970s. More recently we have provided commentary in 2021, noting that the grade profile of the open pit orebody had been over-estimated when the mine was restarted. By 2015/16, the mine was operating under severe financial stress as a result. A rescue package was initiated but debt had blown out to \$70m (it has since been repaid). The operation was placed on care and maintenance in late 2020. Yet, at the time there was hope that underground extensions could provide new life.

This is a mine site that has been around for multiple generations of activity. It seems that the more the geologists look, the more they find. This, underground iteration of activity, has only just started. If you look at the recently released presentation, you will see that there are about seven orebodies that have potential for depth extensions

Impressive intercepts got the ball rolling again

Optimism was vindicated in May 2021, with the reporting of three deep holes. The best one returned 170m at 1.01% Cu and 0.11 gpt Au from 339m down hole, including a higher grade interval of 23m at 2.48% Cu and 0.24 gpt Au. The share price doubled on the back of the ASX release. A subsequent Underground Stage 1 Plan was announced based on a Mineral Resource of 5.7 Mt at 1.1% Cu and 0.3 gpt Au in December 2021. The restart of the mine was estimated to cost \$26m at the time. This was covered by a \$39m placement at 5.3¢ in March 2023.

Kanmantoo is almost an urban mine, less than an hour's drive from downtown Adelaide, in the Adelaide Hills. Its location ensures availability of a local workforce and good infrastructure in what is generally regarded as a mining-friendly State.

Underground development commenced in May 2023, and the formal decision to proceed was made a month later. The crushing circuit was commissioned in December 2023, and the first concentrates were produced in February 2024, in-line with guidance.

While the plant has capacity to process 3.6 Mtpa, designed for the earlier open pit operation, this exceeds the deliverability of the underground ore. The mill will only operate at about 1.4 Mtpa for the foreseeable future, on a campaign basis.

Over-call on grade is most useful ...

So far the Company has avoided the issue it suffered from with the open pit operation; over-estimation of the grade. Attention to detail has enabled a positive reconciliation of the block model, at times up to 20% overcall. This will be very positive if it continues.

... as is the higher copper price

The jump in the copper price has come at the perfect time for Hillgrove. There is some flexibility with the grade it pulls out of the ground with the ability to mine material that might have otherwise been left in the walls.

Hedging is a necessary strategy with many base metals mines but it shaves the upside on the higher prices. With only 30% of production hedged, Hillgrove still offers good exposure to the higher copper price.

The strong earnings power of Kanmantoo

Hillgrove is another one of those companies that is impeded in what it can say about future earnings due to compliance and the need for reserves. Thus, there is no official guidance, but a half smart analyst can work out numbers from what has been released. The starting point is the Economic Assessment released a year ago. That said the plan was to produce 14,000 tpa of copper in concentrate on a throughput of 1.4 Mtpa. Using a ball park copper price of US\$4.70/lb and all up costs of \$9-10m p.a. (about US\$3.00/lb), Hillgrove could be generating A\$5m per month cash flow or \$60m p.a. With a market capitalisation of around \$163m, this places the shares on a modest cash flow multiple of < 3x.

Another benefit of the higher copper price is the ability to drop the cut-off grade a little by taking incrementally wider cuts into the wall rock. There is a gentle gradient of copper grade that can enable greater tonnes per vertical metre - always an important factor in maximising cashflow.

The Bottom Line

The Hillgrove share price has been reasonably well supported during the recent bear market. It didn't collapse, though it didn't do anything spectacular either. The recent market enthusiasm for copper stocks has been helpful and the shares are trading at recent highs with a market capitalisation of around \$163m.

The Company is now debt free and generating positive cash flows. There is a significant JORC Exploration Target of 60-100 Mt at 0.9-1.2% Cu that could underwrite a long term future for the Company, particularly if the copper price maintains long term strength.

Hillgrove offers good leverage to the copper price based on existing production as well as blue sky appeal in extensions and new discoveries. It is a more conservative way to play the copper cycle than the myriad of speculative exploration companies on the market.

Copper Search about to drill two wildcat holes

There is a school of thought that says the best place to find another orebody is where one has already been found. That is evidenced by the Hillgrove example above, where better exploration methodology and deeper drilling has found previously undiscovered orebodies. That is what is known as brownfields exploration and it usually comes with lower risk, but it still requires luck.

Greenfields exploration is generally higher risk as it goes where no man has trodden before. As each decade passes and the virginal ground available to prospectors gets smaller and smaller, explorationists are increasingly using geophysics to discover "blind" orebodies - those without surface expression. Some cynics say that geophysics are great for identifying orebodies once they have been found, preferring traditional geological methods, but that is a bit harsh.

Last week we mentioned a standout anomaly that Legacy is about to drill test, near Cadia. This week we had a look at another two targets inspired by geophysics, owned by Copper Search (CUS). Copper Search is a one project, one commodity company that has been focusing on the Karari Shear Zone in the northern Gawler craton in South Australia for the last five years. So far it has spent \$2m on geophysical surveys and \$3.5m on drilling. Bonanza success has eluded it too date, but it has claimed "technical success" with small intercepts up to 0.3-0.5% Cu. It is in the right geological environment for IOCG deposits, but it needs to find a proper orebody.

In pursuit of this goal the Company is about to drill two deep holes to test two geophysical anomalies. At **Paradise Dam** there is a changeability anomaly at depths of 500-750m. At **Douglas Creek** there is a more classic, pipelike anomaly measuring 1,400m x 800m, at a target depth of 300-750m. Success in either of these holes could mean a "company maker."

The Bottom Line

This is a high risk/high reward copper exploration play. The geological analysis is valid and interesting. It is not a case of digging over some other company's discards. It is a brand new play. If either one works, shareholders will be ecstatic. Unfortunately many companies drill these sort of targets without any commercial success, so it is not advisable to bet the house on success upfront.

In a similar vein, it is not wise for a company to gamble its future in the same scenario. Copper Search has \$2.6m in the bank, so it can afford to risk the \$800,000 that these two holes are expected to cost. But what if they are unsuccessful and the share price tanks (it has already moved up in anticipation)? The Company could end up being impoverished.

Taking a balanced approach, Copper Search passed the hat around last Tuesday and placed \$2m at 10ϕ with 1 for 2 attaching options, exercisable at 15ϕ . This will take the cash level above \$4m.

As is usual the share price has come off since the trading halt was lifted, from a high of 14 ¢ to 11.5 ¢ at the time of writing ... and that is before the placement shares become tradable. The challenge will be to keep speculation at elevated levels in the lead up to the drilling. However, there is the risk that traders will sell the shares to reduce their exposure, whilst keeping the options to maintain leverage to any discovery. That is the catch 22 when options are attached. They detract from share price performance ... but they are good for traders.

There will be some speculative market activity around these holes over the next few months, so there should be some trading opportunities. Having two prospects, rather than one, provides a second cherry to bite into in the event of disappointment in the first hole. You have to be in it to win it.

Disclosure: FEC will receive modest fees on the raising as some of its clients participated in the placement.

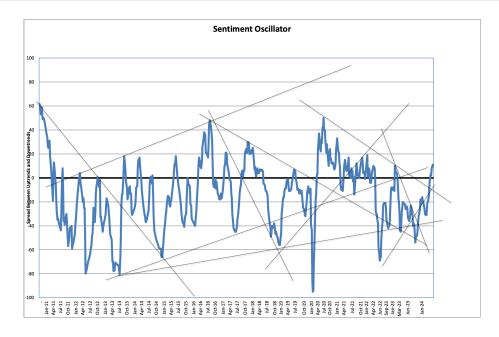
CSIRO is having its strings pulled on nuclear

A few days ago the ABC ran a story on nuclear power costs, quoting a report done by the CSIRO - another government organisation that seems to play to the woke crowd. As soon as I heard that the report opined that nuclear power was twice as expensive as any other source of electricity I thought "what rot!" Then Jim Chalmers got on the radio and started to play politics, condemning the Liberal Party's nuclear power policy. This was obviously a report manufactured for political gain.

Fortunately there has been an article in The Australian (28/5/24) whereby Judith Sloan has taken the time to point out the flaws in the CSIRO report. The bottom line is ... garbage in, garbage out. Key assumptions in the report were described as ridiculous.

As an example, it assumed a capacity factor wind and solar to be 48% and 52%, when the real numbers are actually 25 and 33%. The capacity factor for nuclear should be > 90%, but the CSIRO had it down as low as 53%. The report is dismissive of the inconsistency of wind and solar power and the need for backup power sources when the sun doesn't shine or the wind doesn't blow. Then there is the transmission issue - getting the renewable energy into the grid. The life of a nuclear power plant can be 80 years but the report limits it to 30 years. Solar and wind facilities are assumed to last for 25 years.

This is just another disgraceful example of a deceitful government pushing its own agenda to match its narrative and that of its friends, besmirching the good CSIRO name in the process. Why am I not surprised? Nuclear power advocates may have to argue their case more aggressively to overcome the deceit.



Sentiment Oscillator: Sentiment was steady. There were 39% (39%) of stocks in uptrend and 29% (28%) 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	slump, testing uptrend	
Metals and Mining	XMM	surge higher, then pullback	
Energy	XEJ	still under long term downtrend line	
Information Technology	XIJ	surge to new high	
Stocks	Code	Trend Comment (updated comments in bold)	Main Interest
5EA Advanced Materials	5EA	back to lows	boron
Advance Metals (was Pacific American)	AVM	collapse on placement	coal, gold exploration
Aguia Resources	AGR	new high	phosphate, gold
Alkane Resources	ALK	testing downtrend	gold
Alicanto Minerals	AQI	fallen back to lows	base metals, silver, gold
Alligator Energy	AGE	recovering	uranium
Almonty Industries	AII	rising	tungsten
Alpha HPA	A4N	upside breakout from wedge	HPA
Altech Chemical	ATC	breaching downtrend	HPA, anodes
Alto Metals	AME	volatility while new uptrend is forming	gold
American Rare Earths	ARR	consolidating	rare earths
Anax Metals	ANX	heavy slump	copper
Anteotech	ADO	sideways at lows	silicon anodes, biotech
Arafura Resources	ARU	pullback	rare earths
Ardea Resources	ARL	spiked higher	nickel

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Arizona Lithium	AZL	strong rally	lithium
Astral Resources	AAR	spike out of downtrend	gold
Averina	AEV	down heavily	phosphate
Aurora Energy Metals	1AE	breached support	uranium
Aurelia Metals	AMI	rising	copper + base metals
Australian Gold and Copper	AGC	steep rise	base metals, silver, gold
Australian Rare Earths	AR3	breaching downtrend	rare earths
Australian Strategic Materials	ASM	strong rally but hit LT resistance line	rare earths
BHP	ВНР	corrected lower	diversified, iron ore
Barton Gold	BGD	rising gently	gold exploration
Beach Energy	BPT	testing uptrend	oil and gas
Bellevue Gold	BGL	breached uptrend	gold
Besra Gold	BEZ	collapse to new low	gold
Black Cat Syndicate	BC8	rising	gold
Boab Metals	BML	down	silver/lead
Brazil Critical Minerals	всм	down on placement	rare earths
Brazilian Rare Earths	BRE	rising wedge	rare earths
Brightstar Resources	BTR	uptrend	gold
Calidus Resources	CAI	testing downtrend	gold
Caravel Minerals	CVV	strong rise	copper
Carnaby Resources	CNB	collapse on Scoping Study, testing support	copper
Castile Resources	CST	rallying	gold/copper/cobalt
Catalyst Metals	CYL	new uptrend	gold
Cazaly Resources	CAZ	forming a base	rare earths
Celsius Resources	CLA	stronger	copper
Cobalt Blue	СОВ	down again	cobalt
Cyprium Metals	СҮМ	breached downtrend, surged higher	copper
Emerald Resources	EMR	rising, new high	gold
Empire Energy	EEG	breached support	gas
EQ Resources	EQR	breaching downtrend	tungsten
Evolution Energy	EV1	new low	graphite
Evolution Mining	EVN	rising	gold
First Graphene	FGR	spiked higher	graphene
Fortescue Metals	FMG	rallying	iron ore
Genesis Minerals	GMD	rising	gold
Globe Metals and Mining	GBE	steeply higher	niobium
Gold 50	G50	new uptrend	gold exploration + gallium
Great Boulder Resources	GBR	sideways at lows	gold exploration
Group 6 Metals	G6M	down	tungsten
Hamelin Gold	HMG	sideways through downtrend	gold exploration
Hastings Technology Metals	HAS	collapse to new low	rare earths
Heavy Minerals	HVY	new low	garnet
Hillgrove Resources	HGO	rising gently	copper
Iluka Resources	ILU	improving	mineral sands
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ioneer (was Global Geoscience)	INR	rising again	lithium
Ionic Rare Earths	IXR	down	rare earths
Jervois Mining	JVR	new low	nickel/cobalt
Jindalee Lithium	JLL	back to lows	lithium
Jupiter Mines	JSM	rising	manganese
Kaiser Reef	KAU	improving	gold
Krakatoa Resources	KTA	steep rise on niobium news	rare earths
Larvotto Resources	LRV	rising	gold, antimony
Lindian Resources	LIN	breached downtrend	rare earths + bauxite
Li-S Energy	LIS	sideways	Lithium sulphur battery technology
LCL Resources	LCL	new low	gold/nickel exploration
Lotus Resources	LOT	rising	uranium
Lucapa Diamond	LOM	new low	diamonds
Lunnon Metals	LM8	testing uptrend	nickel
Lynas Corp.	LYC	rallied to meet resistance	rare earths
Marmota	MEU	rising	gold/uranium exploration
Mayur Resources	MRL	breached uptrend	renewables, cement
Meeka Gold	MEK	rallying	gold
MetalsX	MLX	rising	tin, nickel
Meteoric Resources	MEI	sideways	rare earths
Metro Mining	MMI	new high	bauxite
Midas Minerals	MM1	slump	lithium
Mitre Mining	ММС	steep rise	silver
Nagambie Resources	NAG	another new low	gold, antimony
Neometals	NMT	new low	lithium
Newfield Resources	NWF	breached downtrend	diamonds
Nexgen Energy	NXG	breached uptrend	uranium
Northern Star Res.	NST	rising	gold
Nova Minerals	NVA	down	gold exploration
Novo Resources	NVO	down	gold exploration
Pacific Gold	PGO	breached downtrend	gold exploration
Paladin Energy	PDN	new high	uranium
Pantoro	PNR	rising again	gold
Patriot Battery Metals	PMT	testing downtrend	lithium
Peninsula Energy	PEN	sideways	uranium
Perseus Mining	PRU	at highs	gold
Provaris Energy	PV1	down	hydrogen
QMines	QML	new low	copper
Queensland Pacific Metals	QPM	testing downtrend	nickel/cobalt/HPA
RareX	REE	new low	phosphate, rare earths
Regis Resources	RRL	rising	gold
Renergen	RLT	rising	gas, helium
Richmond Vanadium	RVT	testing downtrend	vanadium
RIO	RIO	rising again	diversified, iron ore

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RTG Mining	RTG		rising	copper
Rumble Resources	RTR		new low	zinc exploration
S2 Resources	S2R		gentle downtrend	gold exploration
Sandfire Resources	SFR		rising again	copper
Santos	STO		weaker	oil/gas
Sarytogan Graphite	SGA		down	graphite
Siren Gold	SNG		rising	gold exploration
South Harz Potash	SHP		new low	potash
Southern Cross Gold	SXG		spike to new high	gold exploration
Southern Palladium	SPD		rising again	PGMs
Stanmore Coal	SMR		testing downtrend	coal
Stellar Resources	SRZ		uptrend	tin
Summit Resources	SUM		new high	niobium, rare earths
Suvo Strategic Minerals	SUV		spiked higher	kaolin
Talga Resources	TLG		rallying	graphite
Tamboran Resources	TBN		rising again	gas
Theta Gold Mines	TGM		rising again	gold
Thor Energy	THR		down	uranium
Tietto Minerals	TIE		surge on takeover approach	gold
Torque Metals	TOR		breached downtrend	gold exploration + lithium
Vanadium Resources	VR8		new uptrend	vanadium
Venture Minerals	VMS		back to recent high	tin, tungsten
Vintage Energy	VEN		new low	gas
Voltaic Strategic Resources	VSR		at lows	REO + lithium
Vertex Minerals	VTX		breached downtrend	gold
Walkabout Resources	WKT		sideways	graphite
Warriedar Resources	WA8		breached downtrend	gold exploration
West Cobar	WC1		new low	rare earth + lithium
Westgold Resources	WGX		testing downtrend	gold
West Wits Mining	WWI		correcting lower	gold
Whitehaven Coal	WHC		testing uptrend	coal
Zenith Minerals	ZNC		new low	gold exploration
Totals	39%	54	Uptrend	
	29%	40	Downtrend	
		137	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 untrend
- · 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	28	20.4%		
Gold Exploration	16	11.7%		
Rare Earths	13	9.5%		
Copper	10	7.3%		
Uranium	7	5.1%		
Lithium	6	4.4%		
Oil/Gas	6	4.4%		
Nickel	5	3.6%		
Graphite/graphene	5	3.6%		
Iron Ore/Manganese	4	2.9%		
Potash/Phosphate	4	2.9%		
Coal	3	2.2%		
Tungsten	3	2.2%		
Tin	3	2.2%		
Silver	3	30.0%		
Diamonds	2	1.5%		
Niobium	2	1.5%		
Vanadium	2	20.0%		
Zinc/Lead	2	1.5%		
Mineral Sands	1	0.7%		
Bauxite	1	0.7%		
Cobalt	1	0.7%		
Other	10			
Total	137			

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