

AIM/ASX: THR OTCQB: THORF



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The information in this report that relates to exploration results and exploration targets is based on information compiled by Nicole Galloway Warland, who holds a BSc in applied geology (Hons) and who is a Member of The Australian Institute of Geoscientists. Ms Galloway Warland is an employee of Thor Mining PLC. She has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which she is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Nicole Galloway Warland consents to the inclusion in the report of the matters based on her formation in the form and context in which it appears.

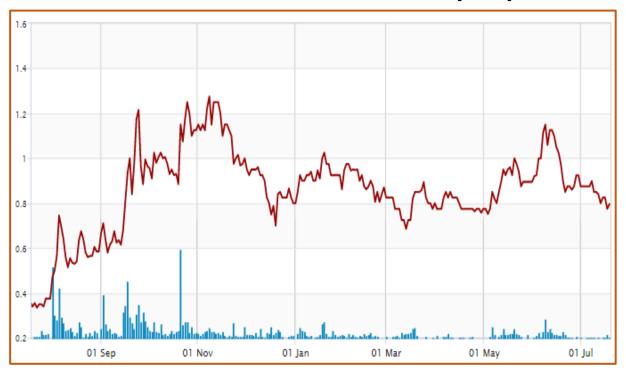


CORPORATE SNAPSHOT

CAPITAL STRUCTURE

AIM/ASX Code	THR
OTCQB Code	THORF
Market Cap	US\$18.0M
Cash (Jun 30 2021)	US\$1.1M
Debt	NIL
Directors Interest	3.5%

SHARE PRICE PERFORMANCE (LSE)





INVESTMENT HIGHLIGHTS

Diverse Portfolio

Copper – Australia (Three Projects)

- Technical Feasibility Stage
- Direct & Indirect Interest in >400,000t Cu
- Resource Extension Potential

T Uranium and Vanadium - USA

Brownfields Exploration

Gold - Australia

Greenfields Exploration

Tungsten (Australia & USA)

Feasibility Study Stage

Fully Funded 2021 Program

🔽 Copper - Australia

- Technical Feasibility Stage
- Resource Expansion Potential
- Drilling in Progress

T Uranium and Vanadium - USA

- Drilling Adjacent High Grade Historical Production
- Drilling Scheduled Q3 2021

Gold - Australia

Maiden Drilling Program – Q3 2021

Tungsten - Australia

Feasibility Enhancements



BOARD & MANAGEMENT



Mick Billing Chairman



Career includes experience in company management, company secretarial, senior commercial, and CFO roles across the spectrum of mining exploration, production, & project evaluation, including lengthy periods with Bougainville Copper Ltd and WMC Resources Ltd.



Nicole Galloway Warland Managing Director

Geologist

More than 25 years in mining & exploration in Australia, Eastern Europe & South America.

Experience spans from grass roots exploration to project evaluation to open cut & underground mining with a commodity focus of gold, copper/gold, nickel, uranium & lithium.



Mark McGeough
Non-Executive Director

Geologist

An experienced geologist who has explored for gold, IOCG coppergold, silver-lead-zinc and uranium. Involved in the discovery of the White Dam gold deposit in South Australia and the Theseus uranium deposit in WA. Career includes Chinova Resources, Toro Energy, Xstrata Copper, Mount Isa Mines and AGIP Australia, &. was also the Manager of the SA Geological Survey.



Mark Potter
Non-Executive Director

Finance

Director and Chief Investment
Officer of Metal Tiger Plc
(AIM:MTR), and is the Founder
and a Partner of Sita Capital
Partners LLP. He is also NonExecutive Chairman of Artemis
Resources (ASX: ARV), a Pilbara
gold mining and exploration
company.



Ray Ridge CFO Joint Company Secretary

Accounting

A chartered accountant with over 20 years accounting and commercial management experience.

Roles include Senior Audit Manager with Arthur Andersen, Divisional CFO with Elders Ltd, and GM Commercial & Operations at engineering and construction company Parsons Brinckerhoff.



COPPER IN SOUTH AUSTRALIA

LOCATION

- Alford East JV Farm-in earning 80% direct interest
- EnviroCopper Limited (ECL) Thor hold 30% Equity Interest
 - Kapunda ECL earning a 75% interest
 - Alford West ECL earning a 75% interest

GEOLOGY

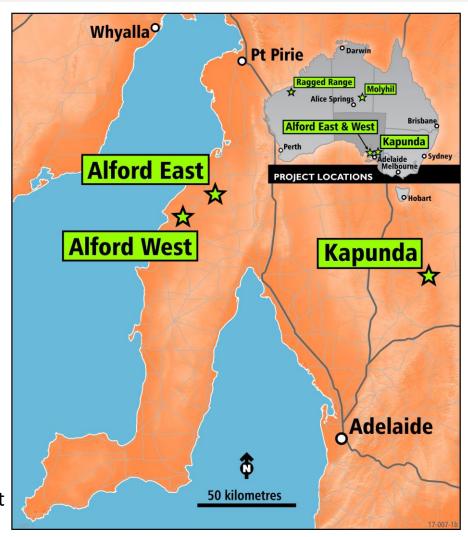
- Substantial near surface oxidised copper mineralisation, transitioning at depth to readily leachable chalcocite then primary chalcopyrite
- Leachable gold also present

INFRASTRUCTURE

Located adjacent to mains electricity & sealed highways. Nearby towns should provide workforce on daily commute basis

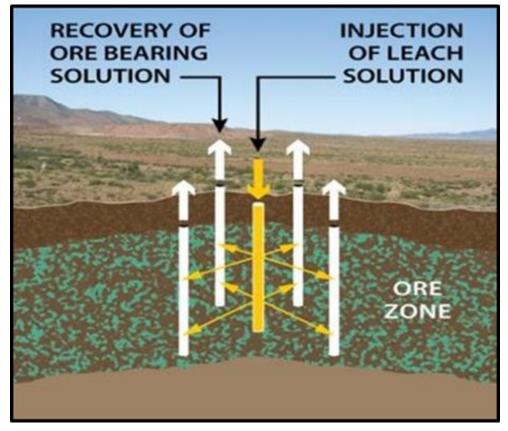
OBJECTIVE

Low-Cost production of copper (with some gold credits) using low impact recovery techniques



IN-SITU RECOVERY (ISR)

- Large copper-gold oxide resources constrained within structural corridor
- Low cost / low environmental impact metal production
- A chemical process rather than a high-cost mining operation (No large pit / no crushing or grinding / no waste dumps etc)
- Substantial Australian government & research body funding grant to fund technical feasibility
- ISR techniques have been utilised commercially in South Australia for >15 years We have the expertise locally
- Proof of Concept established for Kapunda
- Minerals are conducive to leaching confirmed
- Both Copper and Gold recovered in Leach test work
- Ground conditions allow the flow of leaching fluid through the orebody – confirmed via field testing





ALFORD EAST COPPER-GOLD - THOR EARNING 80%

LOCATION

- Approx 150km north-west of Adelaide, South Australia
- Adjacent EnviroCopper Ltd Alford West project

GEOLOGY

- Substantial near surface oxidised copper mineralisation, transitioning at readily leachable chalcocite then primary chalcopyrite
- Leachable gold also present

HISTORY

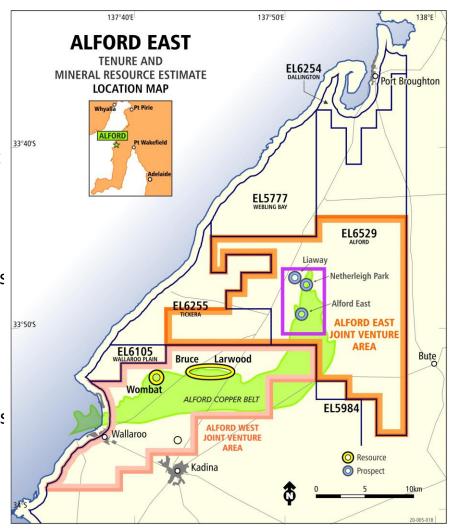
- Substantial drilling history chasing IOCG targets unveiling oxide mineralis several decades
- Multiple intersections of probable ISR amenable mineralisation (ASX:THR 23 November 2020)

INFRASTRUCTURE

Located adjacent to mains electricity & sealed highways. Nearby towns servide workforce on daily commute basis

INFERRED MINERAL RESOURCE ESTIMATION

■ 177,000t of contained Copper and 71,500oz of contained gold





ALFORD EAST COPPER-GOLD - Inferred Mineral Resource

- Inferred Mineral Resource Estimated based solely on historic drilling
- Significant Growth Potential along strike and at depth
- Diamond Drilling program to increase this resource in progress.

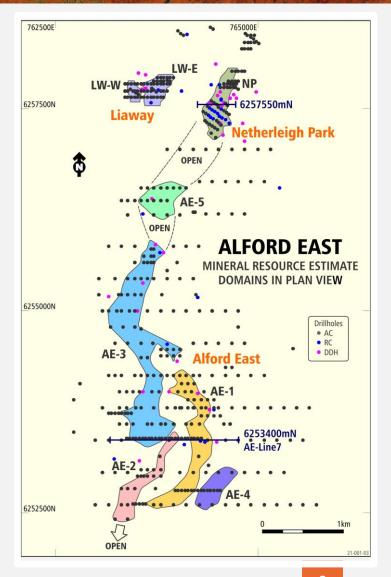
Inferred Mineral Resource Estimate for the Alford East Project –

22nd January **2021** – **0.05**% Cu cut-off (oxide material only) (ASX Jan 27 2021)

Prospect	Tonnes (Mt)	Cu %	Au g/t	Contained Cu (t)	Contained Au (oz)
Alford East	85.3	0.12	0.021	104,000	57,000
Netherleigh Park	31.3	0.19	0.008	61,000	8,000
Liaway	40.3	0.18	0.011	73,000	14,500
Total	125.6	0.14	0.018	177,000	71,500

Thor Mining PLC to acquire 80% interest in the Alford East Project

The Company is not aware of any information or data which would materially affect this previously announced resource estimate, and all assumptions and technical parameters relevant to the estimate remain unchanged.

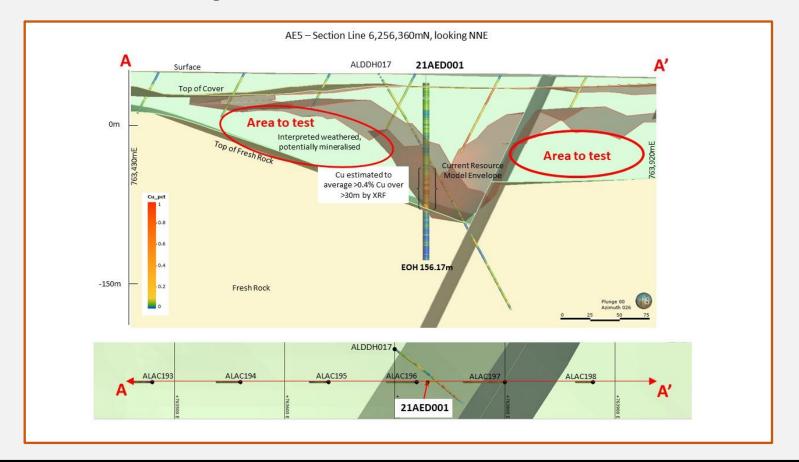


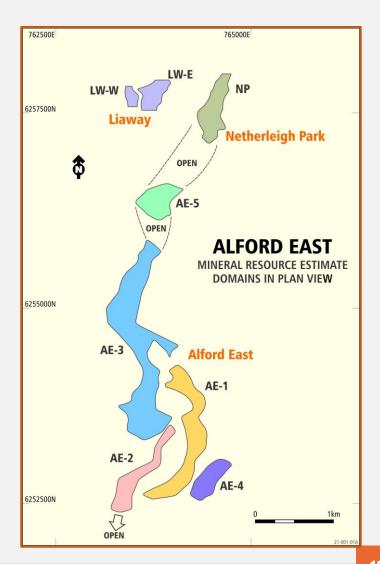


T All figures are rounded to reflect appropriate levels of confidence. Apparent differences may occur due to rounding.

ALFORD EAST COPPER-GOLD - Growth Potential

- Inferred Mineral Resource Estimated based solely on historic drilling
- Significant Growth Potential along strike and at depth
- Diamond Drilling Commenced June 2021







ENVIROCOPPER LTD – THOR INTEREST 30%

LOCATION

- Kapunda 90km north of city of Adelaide
- Alford West 150km north-west of Adelaide

GEOLOGY

- Substantial near surface oxidised copper mineralisation, transitioning at depth to leachable chalcocite then primary chalcopyrite
- Leachable gold also present

HISTORY

- Kapunda Birth of Australian Copper Mining History
- Both areas mined extensively during the latter half of the 19th Century

INFRASTRUCTURE

Located adjacent to mains electricity & sealed highways. Nearby towns should proworkforce on daily commute basis

RESOURCE

- Kapunda Inferred Resource of 47.4Mt for 119,000t Cu suitable for ISR (ASX 12 Feb 2018)
- Alford West Inferred Resource of 66.1Mt for 114,000t Cu suitable for ISR (ASX 15 Aug 2019)
- Significant Resource Upside



Kapunda Historic Workings

ENVIRO COPPER RESOURCES & EXPLORATION TARGETS

GROWING COPPER RESOURCES – ALSO WITH GOLD POTENTIAL

KAPUNDA COPPER RESOURCE ESTIMATE (12 FEB 2018)

	RESOURCE			COPPER
MINERALISATION	CLASSIFICATION	МТ	GRADE %	CU METAL (T)
Copper Oxide	Inferred	30.3	0.24	73,000
Secondary Copper Sulphide	Inferred	17.1	0.27	46,000
	SUB TOTAL	47.4	0.25	119,000

ALFORD WEST COPPER RESOURCE ESTIMATE (15 AUG 2019)

RESOURCE CLASSIFICATION	DEPOSIT	TONNES (MT)	CU (%)	CU (METAL T)	AU (G/T)	AU (OZ)
Inferred	Wombat	46.5	0.17	80,000		
	Bruce	11.8	0.19	22,000		
	Larwood	7.8	0.15	12,000	0.04	10,000
	TOTAL	66.1	0.17	114,000		

- Thor Mining PLC is acquiring up to a 22.5% equity in these resources
- The Company is not aware of any information or data which would materially affect these previously announced resource estimates, and all assumptions and technical parameters relevant to the estimate remain unchanged

GOLD POTENTIAL

- Substantial evidence of gold in ~½ of historical drilling
- EnviroCopper can extract gold concurrently with copper at Kapunda

ALFORD WEST EXPLORATION TARGET* (7 MARCH 2019)

	TONNAC	GE (MT)	% C	U
CATEGORY	FROM	то	FROM	ТО
Category 1	80	120	0.18	0.23
Category 2	38	45	0.18	0.23
Category 3	120	145	0.18	0.23

^{*}Exploration Targets are conceptual in nature and there has been insufficient exploration to define a Mineral Resource under the JORC Code and it is uncertain if further exploration will result in the determination of a Mineral Resource.



RAGGED RANGE GOLD – 100% THOR

LOCATION

- Pilbara Region Western Australia
- Located in Area of Proven Gold Production and Resource Potential

GEOLOGY

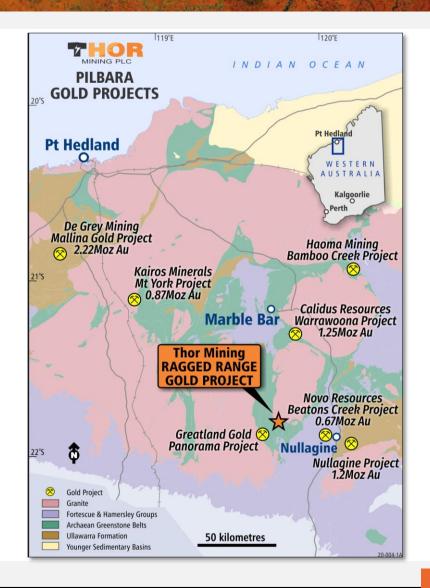
- East Pilbara Granite-Greenstone Terrane, Archean Pilbara Craton
- Proximity to large scale gold deposits in similar geological setting
- Prospective host rocks Warrawoona Group
- Favourable structural setting thrust faulted mafic/ultramafic contact

HISTORY

- Three stream sediment and rock chip programs completed
 - Consistent gold in pan and assays up to 2.2g/t Au (ASX:THR 1 December 2020)
- Airborne Magnetic survey
- Nickel Gossan approx. 1.5km strike length x 100m width

PROGRAM

- Four chemical/magnetic targets warranting immediate follow up
- Soil, stream and Rock chip sampling programs with geological mapping
- Drilling scheduled Q3 2021

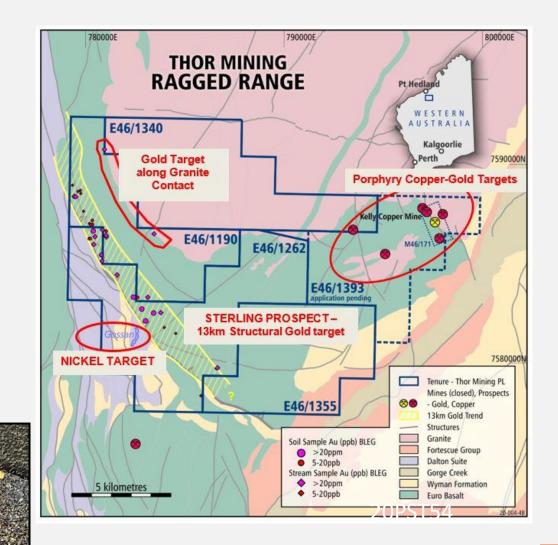




RAGGED RANGE - GOLD STRIKE POTENTIAL

13 KILOMETRES OF STRIKE POTENTIAL

- High tenor stream sediment samples draining SW-NE from interpreted Ultramafic /Mafic thrust faulted contact
- Anomalous Gold reported in pan, in BLEG samples and 2mm samples, assayed by aqua regia –up to 2.2g/t Au (20PST51) (ASX:THR 1 December 2020)
- Strong suggestion that structurally hosted gold extends along the 13-kilometer contact zone- gold corridor
- Anomalous results also reported from close to the Archean granite contact and in NE area of the tenement
- Recent acquisition area host some historical small-scale Au
 & Cu mines
- 100% control of greenstone belt Kelly greenstone belt (KGB)



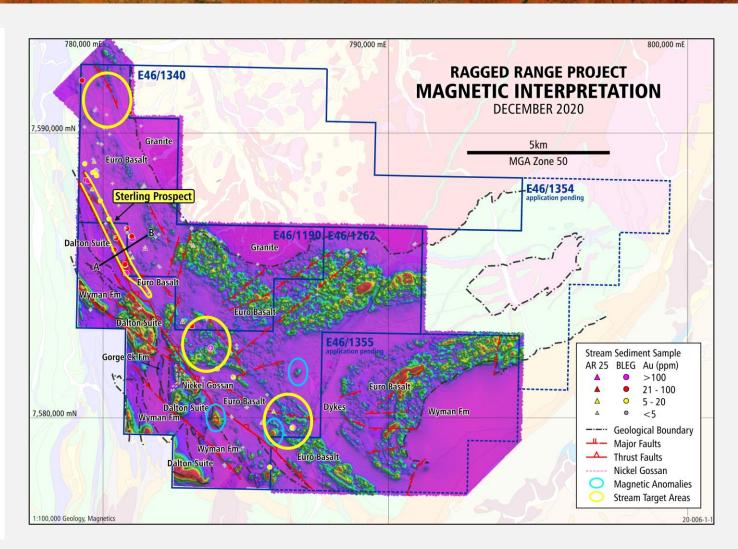


RAGGED RANGE - MAGNETIC/RADIOMETRIC SURVEY

- Close spaced airborne magnetics survey was flown by MAGSPEC Airborne Surveys Pty Ltd over E46/1190, E46/1262 & E46/1355 (ASX:THR 6 October 2020)
- High resolution airborne magnetics data defines structural contacts and lithological boundaries prospective for gold mineralisation
- Anomalous stream sediment gold assays clearly relate to the structural contact of the Euro Basalt and ultra mafic Dalton Suite, along the 13km gold trend
- Open folding to NE of contact, tight, faulted folding to SW
- Geological Model Local analogue to Warrawoona Gold Project, Calidus Resources

 MRE: 43.7Mt @ 1.06 g/t Au g/t for 1.5 M oz

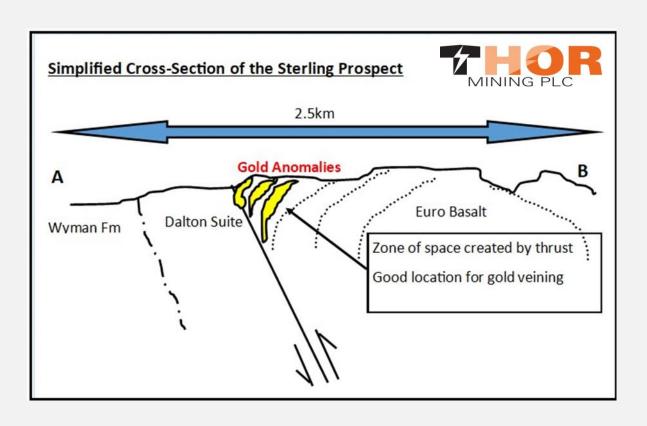
 (Calidus Website)

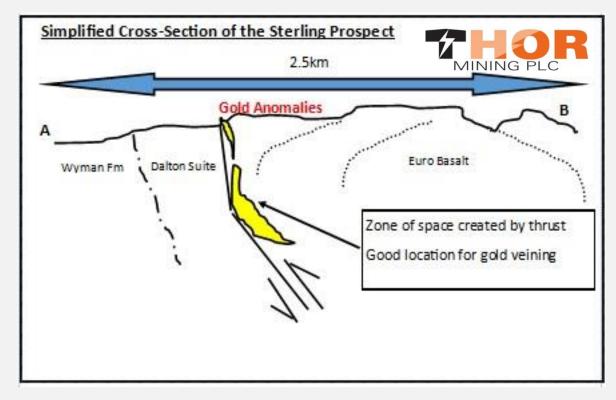


ASVI (Analytic signal of the vertical integral) image over geology



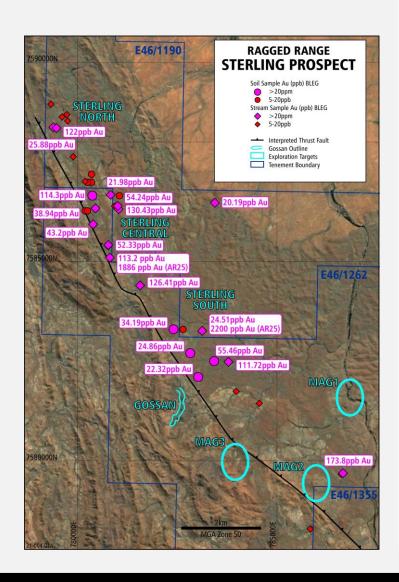
RAGGED RANGE - SIMPIFIED GOLD MODELS







RAGGED RANGE - Next Steps



- Soil Sampling Program #5 due to commence define drill locations.
- Successful WA Government (DMIRS) co-funded drilling grant \$160,000
- RC drilling program to commence Q3 2021







AIM/ASX: THR OTCQB: THORF

US URANIUM & VANADIUM - 100%

LOCATION

- Located SE Utah & SW Colorado USA Uravan Mineral Belt
- 400km south-west of city of Denver

GEOLOGY

- Sandstone filled paleochannels hosting uranium & vanadium
- Field sampling returned high grade uranium (up to $1.25\% U_3O_8$) and vanadium (up to $3.4\% V_2O_5$) (ASX:THR 21 July 2020)

HISTORY

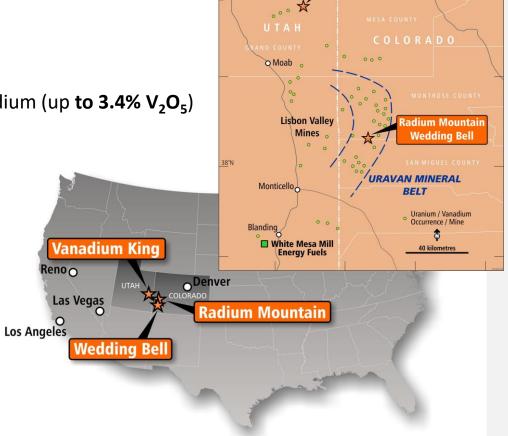
- Colorado claims extensively mined, mainly for uranium through
 20th century historical high-grade uranium & vanadium production
- Utah claims drilled to resource estimate standards of the 1980's, with substantial mineralisation reported

INFRASTRUCTURE

 Nearby processing plant with available capacity has historically taken ore for toll treatment

RESOURCE

Drilling scheduled



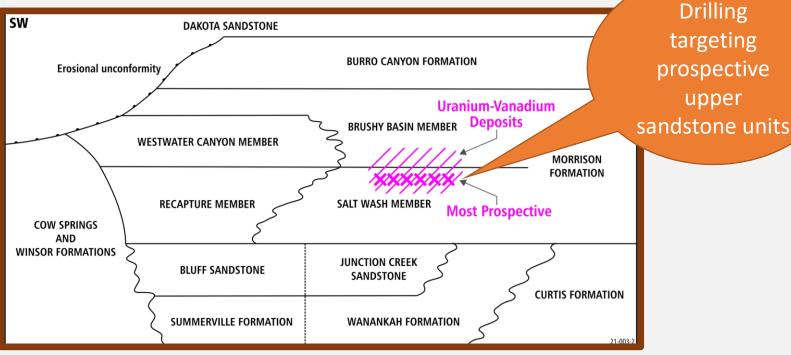


Wedding Bell Historical Mines Geological Model

GEOLOGICAL MODEL

- "Saltwash Type" sandstone hosted uranium –vanadium deposits
- Sandstone filled paleochannels (braided streams in the Jurassic period)
- Deposits hosted in the Morrison Formation with the upper Salt Wash Member the most prospective.
- Tabular stratabound mineralisation is persistent and predictable both laterally and along channels (over kilometres)
- Vanadium to Uranium ration averages 5:1 in the Wedding Bell/Groundhog Project area





Simple Stratigraphy of the Uravan Mineral Belt showing the prospective Morrison Formation.



Drilling

targeting

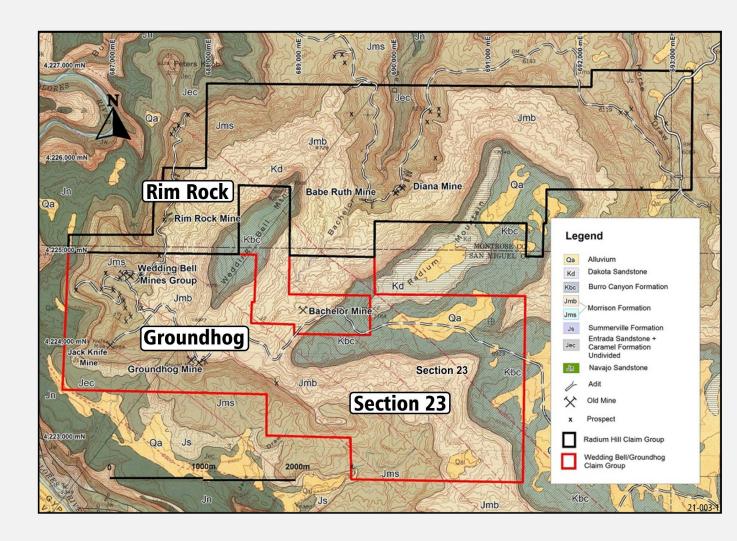
prospective

upper

Wedding Bell - Next Steps

NEXT STEPS

- Drilling Permitting in Progress
- Drilling to target high grade uranium and vanadium mineralisation along strike at 3 area:
 - Rim Rock
 - Groundhog, and
 - Section 23
- Section 23 has previously not been tested





MOLYHIL TUNGSTEN PROJECT- 100%

LOCATION

Northern Territory, Australia – 320km east of Alice Springs

GEOLOGY

- Two adjacent magnetite skarn bodies with economic mineralization of
- scheelite and molybdenite

HISTORY

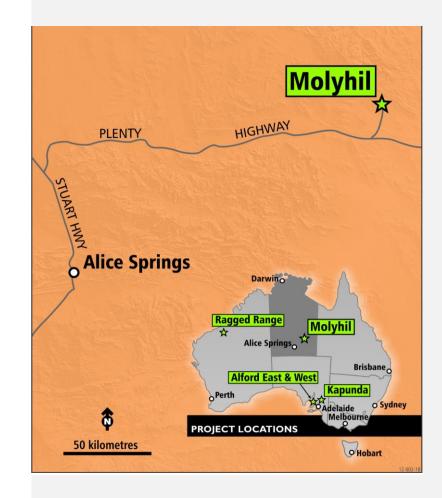
- High grade resource suitable for open pit development
- Extensive metallurgical testwork with validated flowsheet to produce saleable concentrates

PERMITTING STATUS

Fully permitted for development

MINE LIFE

 Substantial resources at depth below modelled pit shell + outcropping Bonya tungsten deposits nearby





MOLYHIL HIGH GRADE RESOURCE

HIGH GRADE RESOURCE

Molyhil is one of the higher-grade open pit tungsten projects in the Western World

SIGNIFICANT MOLYBDENUM CREDITS

Improves tungsten equivalent resource grade by ~50%

ORE SORT – PRE-CONCENTRATION

Improves Mill feed grade by 64%

RESOURCE AT DEPTH BELOW RESERVE

 3D Resource Modelling and review of depth potential underway

Summary of Molyhil Mineral Resource Estimate (Reported 8 April 2021)

RESOURCE		WO ₃		Mo		Cu		Fe
	Mt	Grade %	tonnes	Grade %	tonnes	Grade %	Tonnes	Grade %
Measured	0.46	0.28	1,300	0.13	600	0.06	280	19.12
Indicated	2.93	0.27	7,920	0.09	2,630	0.05	1,470	18.48
Inferred	0.99	0.26	2,580	0.12	1,170	0.03	300	14.93
Total	4.38	0.27	11,800	0.14	4,400	0.05	2,190	17.75

- Thor Mining PLC holds 100% equity in this resource
- The Company is not aware of any information or data which would materially affect this previously announced resource estimate, and all assumptions and technical parameters relevant to the estimate remain unchanged

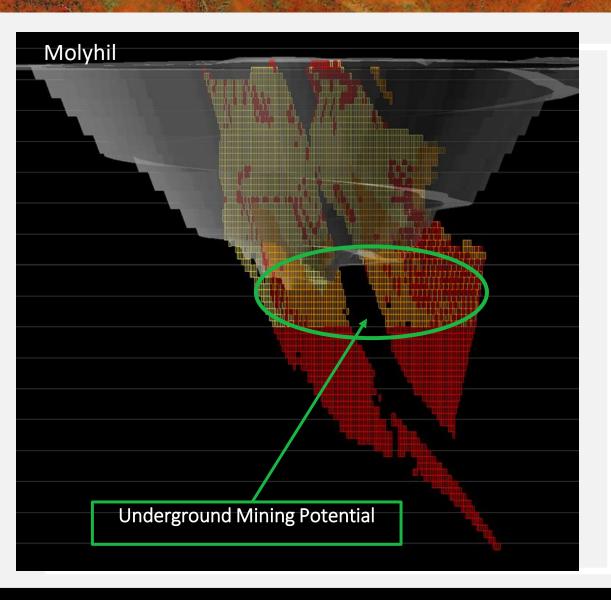
Commodity Price Recovery *

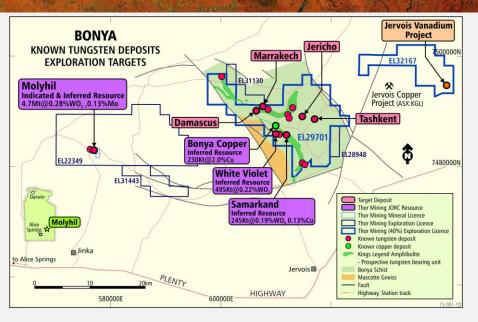
- Tungsten up 42% since June 2020
- Moly up 146% since June 2020

*Argus Metals



MOLYHIL UNDERGROUND & BONYA SATELLITE DEPOSITS





BONYA TUNGSTEN RESOURCE ESTIMATES - 29th Jan 2020

Oxidation		Tonnes	WO ₃		Cu		
		'000	%	Tonnes	%	Tonnes	
Informed	Oxide	50	0.26	120	0.14	60	
Inferred	Fresh	690	0.21	1,410	0.08	550	
Total		740	0.21	1,530	0.09	610	

BONYA COPPER RESOURCE ESTIMATE(26th NOV 2018)

Resource	Tonnes '000	Grade %	Tonnes
Inferred	230	2.0	4,600

Thor Mining PLC holds 40% equity in these resource.

The Company is not aware of any information or data which would materially affect these previously announced resource estimates, and all assumptions and technical parameters relevant to the estimate remain unchanged.



PILOT MOUNTAIN - 100% THOR

LOCATION

- Located IN Nevada, USA
- 250km south-east of Reno

GEOLOGY

- Tungsten-copper-zinc-silver skarn style mineralization at four primary locati
 - Desert Scheelite, garnet, gunmetal & Good hope deposits

HISTORY

- Explored by Union Carbide Corp late 1970's early 1980's
- Four deposits drilled to resource standard of the time
- Subsequent Thor drilling delivered Mineral Resource estimate (JORC) on two deposits
- Metallurgical Testwork to PFS Standard

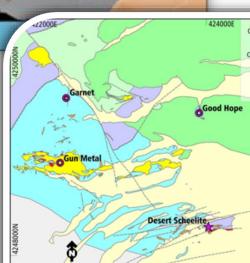
INFRASTRUCTURE

- Located within close proximity to mains & sealed highway. Ample nearby ground water.
- Proximity to towns for workforce daily commute

RESOURCE

- Inferred & Indicated Mineral Resource Estimate (2018)
 - 12.53Mt for 34,290 contained tonnes of WO₃
- Largest Tungsten Resource in the USA





PILOT MOUNTAIN RESOURCE ESTIMATE

The largest Reported Tungsten Resource in USA

Pilot Mountain Resource Estimate (Reported 13 December 2018)

		Resource	W	/O3	,	Ag		Cu		Zn
		Mt	Grade %	Contained Metal (t)	Grade %	Contained Metal (t)	Grade %	Contained Metal (t)	Grade %	Contained Metal (t)
	Indicated		-	-						
Garnet	Inferred	1.83	0.36	6,590						
	Sub Total	1.83	0.36	6,590						
	Indicated	9.01	0.26	23,400	20.73	187	0.15	13,200	0.41	37,100
Desert Scheelite	Inferred	1.69	0.25	4,300	12.24	21	0.16	2,800	0.19	3,200
	Sub Total	10.70	0.26	27,700	19.38	207	0.15	16,000	0.38	40,300
Cumamary	Indicated	9.01	0.26	23,400	 Thor Mining PLC holds 100% equity in this resource All figures are rounded to reflect appropriate levels of confidence. Apparent differences may occur due rounding. The Company is not aware of any information or data which would materially affect this previously announced. 					
Summary	Inferred	3.53	0.31	10,890						
Pilot Mountain	n Total	12.53	0.27	34,290		imate, and all assumpt urce reported 22 May		parameters relevant to	tne estimate remai	n uncnanged.

"Tungsten Classified as a Critical Commodity by US Dept of the Interior"

"No domestic primary Tungsten production in USA"



NEXT STEP EXPLORATION/DEVELOPMENT ACTIVITIES

Fully Funded - Focussed on copper resources, plus gold & uranium discoveries....

Alford-East Copper Project, South Australia

Drilling for process test samples & to extend Resource – in Progress

Kapunda Copper-Gold Project, South Australia (EnviroCopper Ltd – Government Funded Program)

Wellfield Testing - Final Stage Technical Feasibility - commencing ~Q3 2021

Ragged Range Gold (+copper) Project located in the Pilbara Craton Western Australia

- Soil sampling and geological mapping
- RC Drilling commencing Q3 2021

Wedding Bell-Uranium & Vanadium Project, Colorado USA

RC Drilling – scheduled



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