

Technical
Presentation

RIU Sydney **New Green Economy:** Exploring for Uranium and Energy Metals

09 May 2023

Nicole Galloway Warland
Managing Director





Disclaimer, legal notice and competent person statement

This document and all other information (whether in writing or otherwise) which may be made available is:

1. Supplied solely for the intended recipient and may not be copied, reproduced, further distributed to any other person or published, in whole or in part, for any purpose.
2. Provided confidentially and only to assist the recipient to make independent enquiries.

The distribution or transmission of this document in certain jurisdictions may be restricted by law and therefore persons into whose possession this document comes should inform themselves about and observe any such restrictions. Any such distribution or transmission could result in a violation of the law of such jurisdictions. Neither this document nor any copy of it may be taken to be distributed or transmitted into a jurisdiction which by law restricts or prohibits the same or to any national, citizen or resident thereof or any corporation, partnership or other entity created or organised under the laws thereof. The Company has not taken any action to permit the distribution or transmission of this document in any jurisdiction.

This document and all other information (whether in writing or otherwise) which may be made available or part thereof does not:

1. Contain all information that investors and their professional advisers would require to make an informed assessment of the following:
 - assets and liabilities, financial position and performance, profits and losses and prospects of the Company; and
 - rights and liabilities attaching to the Company's securities.
2. Constitute, or form part of, any offer to sell or issue, or any solicitation of an offer to purchase or subscribe for any securities nor shall this document, or any part of it, or the fact of its distribution or transmission, form the basis of, or be relied on, in connection with any contract.
3. Constitute a promise or representation as to the future. Recipients must make their own investigations and inquiries regarding all assumptions, risks, uncertainties and contingencies which may affect the future operations of the Company or the Company's securities.

No representation or warranty, express or implied, is made or given by or on behalf of the Company, its directors and officers or any other person as to the accuracy, completeness or fairness of the information or opinions contained in this document and all other information (whether in writing or otherwise) which may be made available or part thereof or any further information supplied by or on behalf of the Company or in connection with the Company and no responsibility or liability is accepted for any such information or opinions.

All statements in this document (other than statements of historical fact) are forward looking statements that involve risks and uncertainties. The Company can give no assurance that statements will prove accurate and results and future events could differ materially.

The Company, its directors and officers or any other person:

1. Do not accept liability for any loss or damage suffered or incurred by any investor or any other person however caused (including negligence) relating in any way to this document, including (without limitation) the information contained in it, any errors or omissions however caused, or the investor or any other person placing any reliance on this document, its accuracy, completeness, currency or reliability.
2. Do not accept any responsibility to inform the recipient or any other person of any matter arising or coming to its notice which may affect any matter referred to in this document.
3. To the maximum extent permitted by law, expressly disclaimed and excluded any liability of the Company, its directors and officers or any other person to the recipient or to any other person arising out of this document.

Competent Person Statement

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 Energy 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.



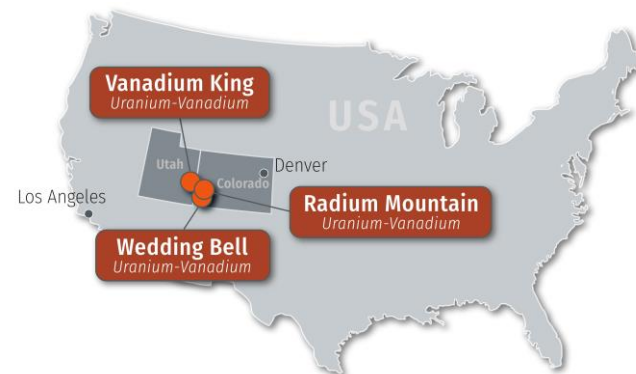
New Green Economy

Focused on Uranium and Energy Metals

USA Uranium Exposure

Uranium and Vanadium – Utah and Colorado, USA

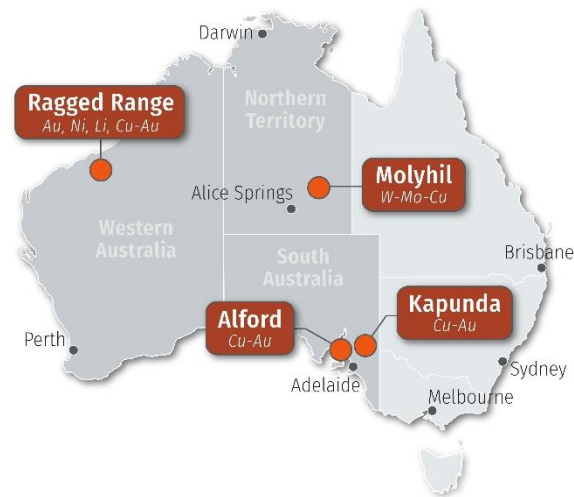
- Three 100% owned assets in a proven mining region
- Uranium demand driven by US desire to secure supply security
- Maiden drilling 2022 -Wedding Bell and Radium Mountain



Energy Metals, Australia

Gold/Nickel/Copper– Australia

- REE & Copper – Alford East, SA
- Gold, Nickel & Copper - Ragged Range Project, Pilbara WA
- (Molyhil – Divestment (IVR Earn-in) ASX/AIM:THR 24 November 2023)





Energy Metals and Uranium: Global Demand

Environment

World is transitioning to 'greener' economy - more than 130 countries have set net zero carbon emission targets by 2050

Copper

Global demand predicted to grow up to 10x by 2050

- Electronics
- Electric vehicles
- Renewable energy revolution

REE

China & Myanmar dominate supply chain

- Magnets – electric vehicles and wind turbines
- High tech applications



Net Zero carbon mission targets



A fully electric vehicle 83kg of copper
A standard combustion uses 20kg of copper

Uranium

Global demand

- Electrification
- Energy security
- Climate change initiatives – nuclear green energy emission green base is a carbon free base load energy source

Supply chain

- Geopolitical uncertainty
- USA largest consumer of uranium (28%)
- Infrastructure/reactor growth



Single wind turbine uses 4.7t of Copper
and ~2t of REE (permanent magnets)



USA Uranium Exposure



Geopolitical – USA national supply security



USA is the largest consumer of uranium in the world (~28%)



Climate change initiatives - Nuclear 'green' energy is a "carbon free" base load energy source



"High-grade" sandstone hosted, shallow uranium targets in Uravan Mineral Belt



Projects in proven mining jurisdictions - Utah and Colorado, USA



Uranium experienced board and management team with successful track record



Experienced Board and Management

Uranium exploration and development expertise



Alastair Clayton
Chairman Non-Executive

25 years of experience in the mining and exploration industry, identifying, financing, and developing mineral, energy and materials processing projects in Australia, Europe and Africa.



Nicole Galloway Warland
Managing Director

More than 30 years in mining & exploration in Australia, Eastern Europe & South America.

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

Involved in the Discovery of Samphire uranium deposit, SA.

Director - Australian Institute of Geoscientists (AIG) and Councillor of AMEC.



Mark McGeough
Non-Executive Director

An experienced geologist who has explored for gold, IOCG copper-gold, 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. He was also the Manager of the SA Geological Survey.



Ray Ridge
CFO & Joint Company Secretary

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.



Corporate Snapshot

| | |
|----------------------|---------|
| AIM/ASX code | THR |
| OTCQB code | THORF |
| Market cap | A\$16.3 |
| Cash (30 March 2023) | A\$2.3M |
| Debt | NIL |
| Top 20 shareholders | 58% |



Strong corporate position
with focus on advancing
projects towards discovery
and development success
– creating shareholder value



Bachelor Mine – Historic Uranium Workings



Uranium

Colorado & Utah, USA



Project Locations

- Urvan Mineral Belt, Utah and Colorado, USA
- 3 Projects – 100% owned by Thor Energy Plc
 - **Wedding Bell, Colorado**
 - **Radium Mountain, Colorado**
 - **Vanadium King, Utah**





Neighbours

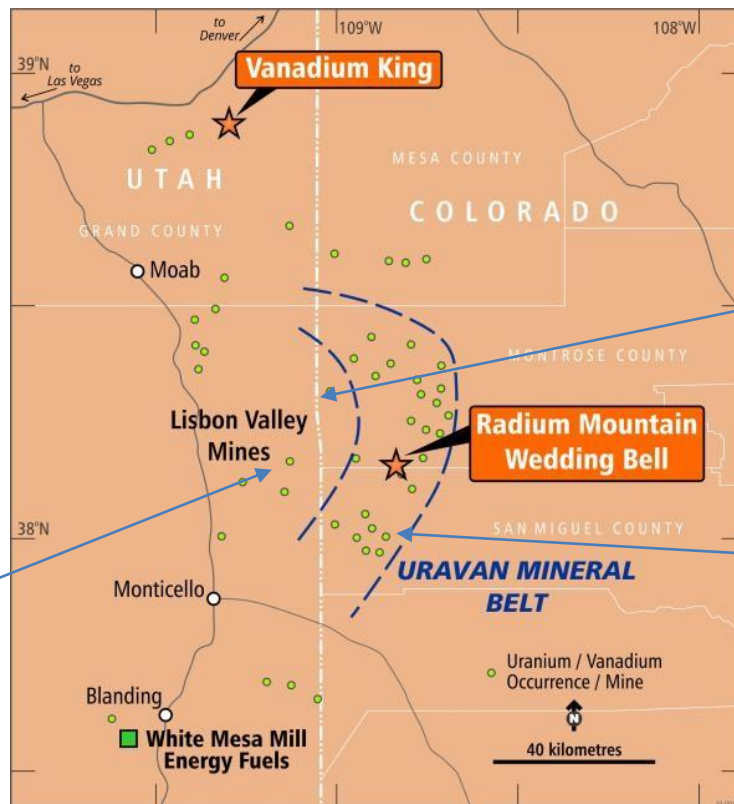
Uranium Companies

- Energy Fuels, Inc
- Western Uranium and Vanadium Inc
- UVRE Ltd

Uranium Mill

- White Mesa Mill, Energy Fuels
- Only fully licensed and operating conventional uranium and vanadium mill in the USA.
- Processing plant with available capacity for toll treatment of uranium and vanadium ore

La Sal Complex- Measured/indicated Resource 1.14Mt @ 0.18% U_3O_8 (4.1 Mlbs) and 0.94% V_2O_5 (21.5Mlbs)
Energy Fuels Website



Whirlwind - Indicated Resource 0.2Mt @ 0.3% U_3O_8 (1Mlbs) and 0.97% V_2O_5 (3.3Mlbs)
Energy Fuels Website

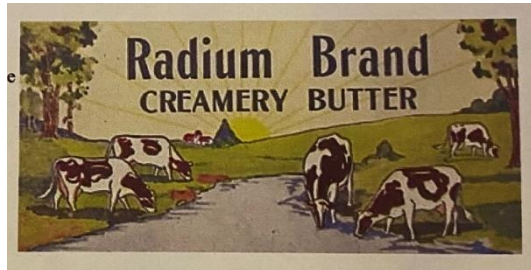
Sunday Complex - 2.9Mlbs @ 0.25% U_3O_8 (non-NI 43-101/JORC)
Western Uranium Website



Community and Stakeholder Engagement (ESG)

- Local geology and exploration team
- Projects are located on federal – Bureau of Land Management (BLM) owned land.
- Extensive history with strong connections to the uranium and vanadium industry
- Positive/favourable local attitude towards **uranium** exploration and mining

NUCLA NATURITA
Area Chamber of Commerce



“Saltwash” Style Uranium and Vanadium

Geology

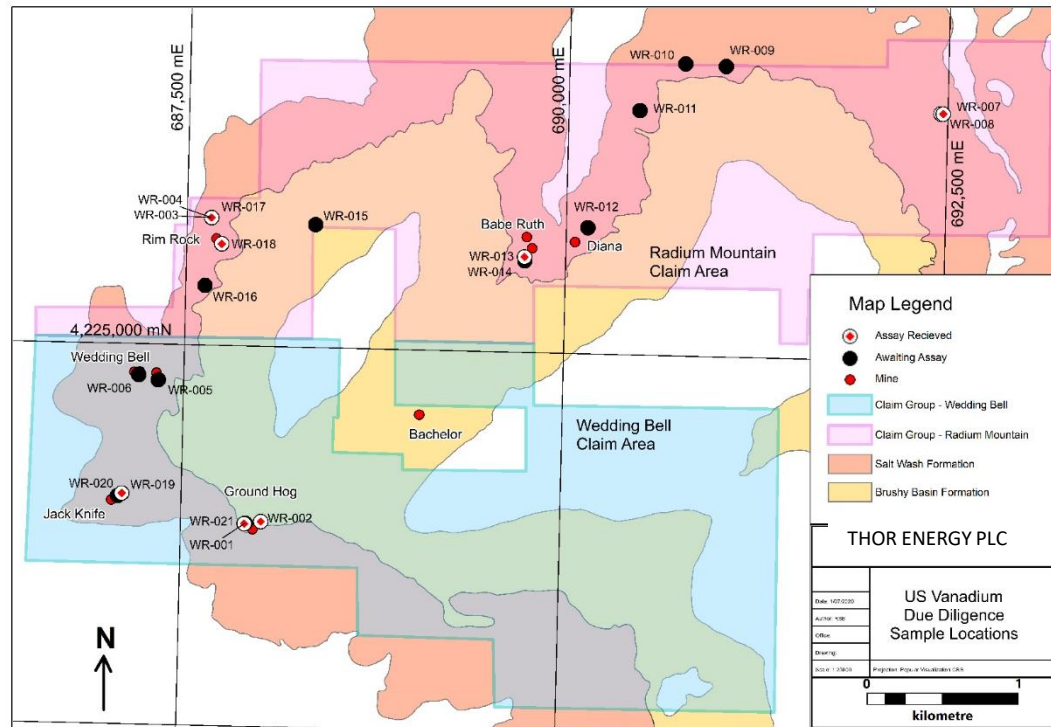
- “Saltwash Style” - Sandstone filled paleochannels hosting uranium and vanadium
- Laterally extensive deposits (kilometers), hosted mainly in the Salt Wash member of the Morrison Formation (Jurassic)
- High-grade ore generally adjacent to the oxidation-reduction boundary
- Some small, high-grade ore bodies consist of fossil logs and pod-like accumulations of carbonaceous material replaced with uranium and vanadium minerals
- Analogy to the Bigryli Deposit, Northern Territory Australia





Exploration Activities

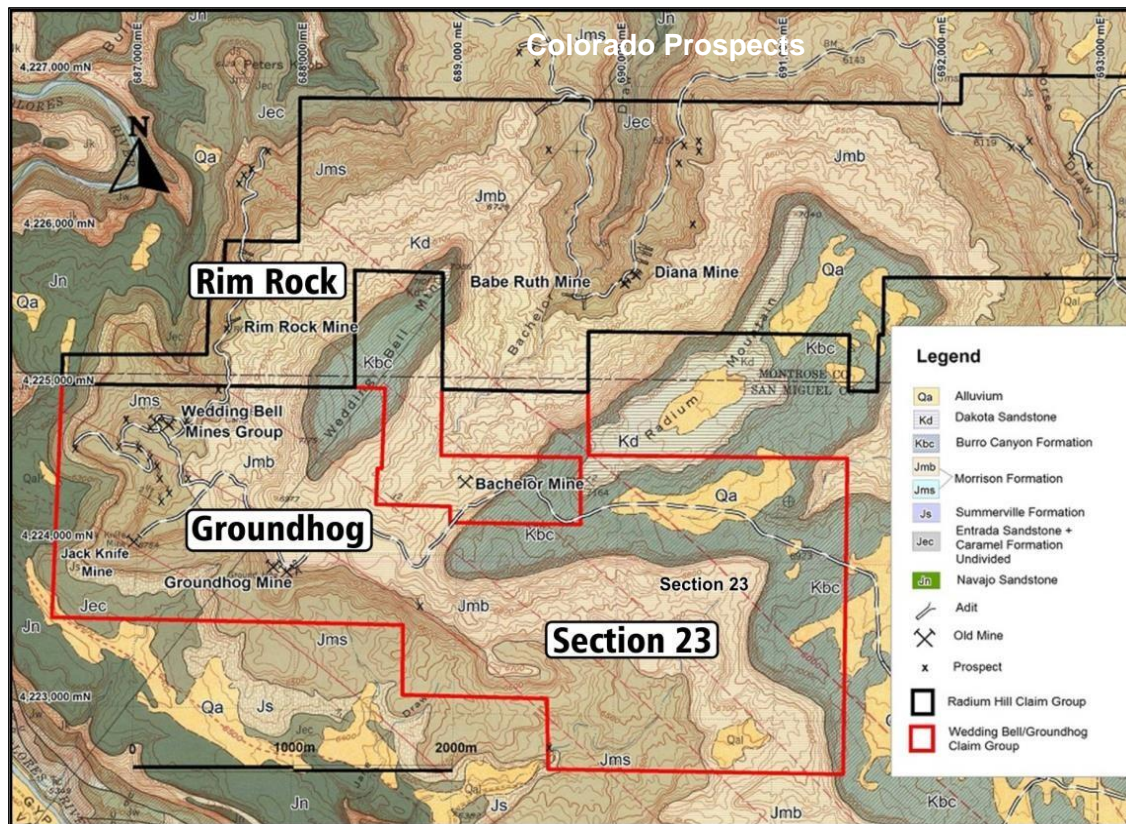
- **Surface Sampling** - Returned high-grade uranium (up to $1.25\% \text{U}_3\text{O}_8$) and vanadium (up to $3.4\% \text{V}_2\text{O}_5$)
- **Maiden Drilling Program** – 15 Rotary holes; Confirmed uranium and vanadium mineralisation





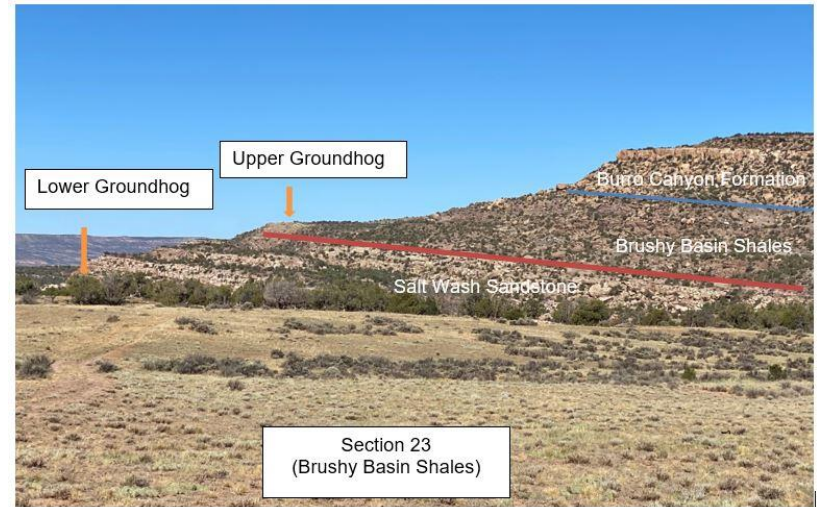
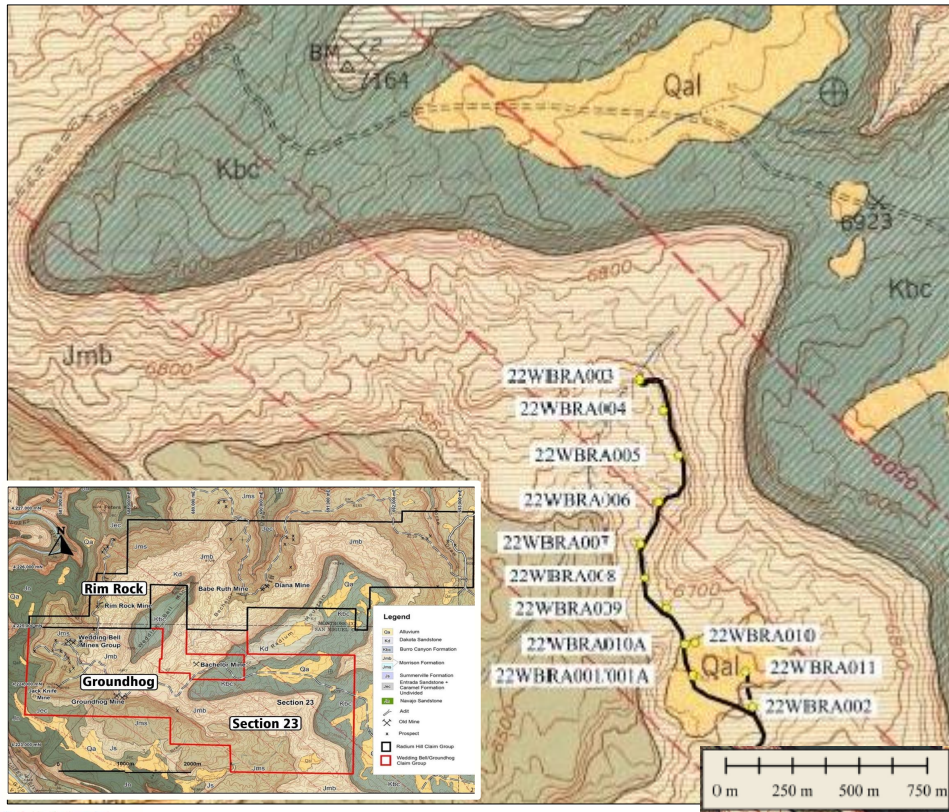
2022 Maiden Drilling Program

- Reconnaissance Program (15 Holes)
- Targeting the Salt Wash Sandstone
- Drilling testing high-grade uranium and vanadium mineralisation along strike at 3 areas:
 - Rim Rock
 - Groundhog
 - Section 23
- Downhole gamma (uranium) followed by a selection of geochemical samples to the laboratory (uranium & vanadium)





Section 23



- Section 23 had previously not been drill tested – no historic workings
- Targeting both the top rim and lower rim sandstone units of the Salt Wash Sandstone



Assays Validate Downhole Gamma and Highlight Vanadium Enriched Halo

Uranium and Vanadium results :

eU_3O_8 = Gamma and U_3O_8 = Assay

Groundhog

- 2.1m @ 360ppm eU_3O_8 from 85m (22WBRA012A), including
0.3m @ 1400ppm eU_3O_8 , and
1.5m @ 601ppm U_3O_8 and 2660ppm V_2O_5 from 83.8m
- 3.0m @ 519 ppm U_3O_8 and 1640ppm V_2O_5 from 83.8m (22WBRA012)
- 1.2m @ 340ppm eU_3O_8 from 78m (22WBRA013), including
0.5m @ 5000ppm eU_3O_8

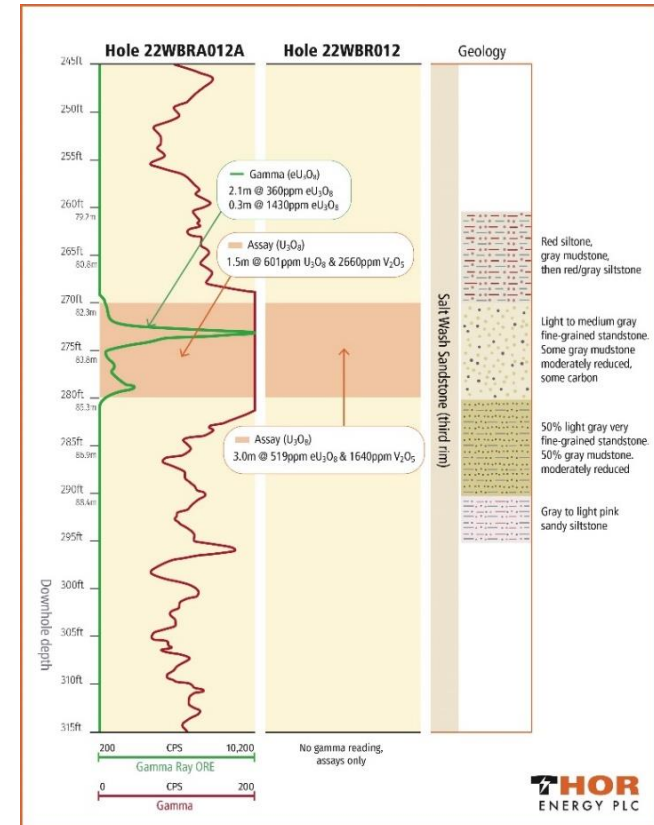
Rim Rock

- 1.5m @ 1776ppm V_2O_5 from 59.4m (22WB014)
- 0.3m @ 720ppm eU_3O_8 from 59.7m (22WBRA014)**

Section 23

- 0.5m @ 510ppm eU_3O_8 from 102.6m (22WBRA002)**
- 1.5m @ 100ppm U_3O_8 and 1026ppm V_2O_5 from 83.8m (22WB011), and
- 0.5m @ 300ppm eU_3O_8 from 100m

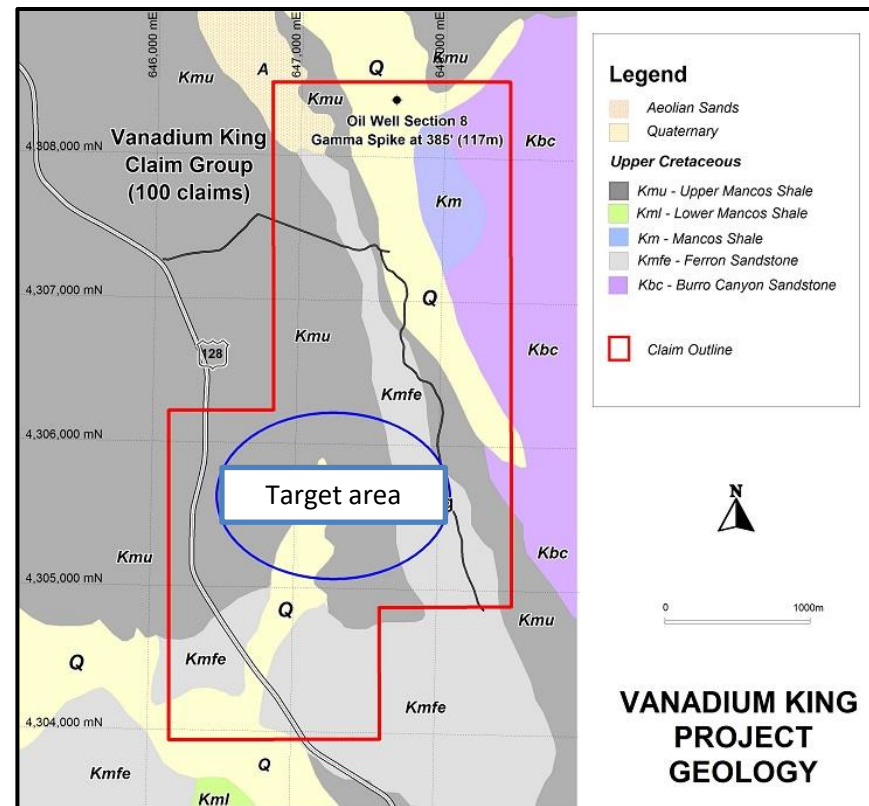
(ASX/AIM:THR 21 December 2022 and 24 April 2023)



Vanadium King, Utah

Previous Exploration

- Adjacent to Yellow Cat uranium historic workings
- 2 oil wells at the northern end of tenure recorded high gamma kicks at 117m reflecting the presence of uranium mineralisation





REE/Copper

Alford East, SA



Copper in South Australia

Geology

- Substantial near surface oxidised copper mineralisation, usually malachite or azurite trending at depth to readily leachable chalcocite, above primary chalcopyrite.
- Leachable gold can also be also present.

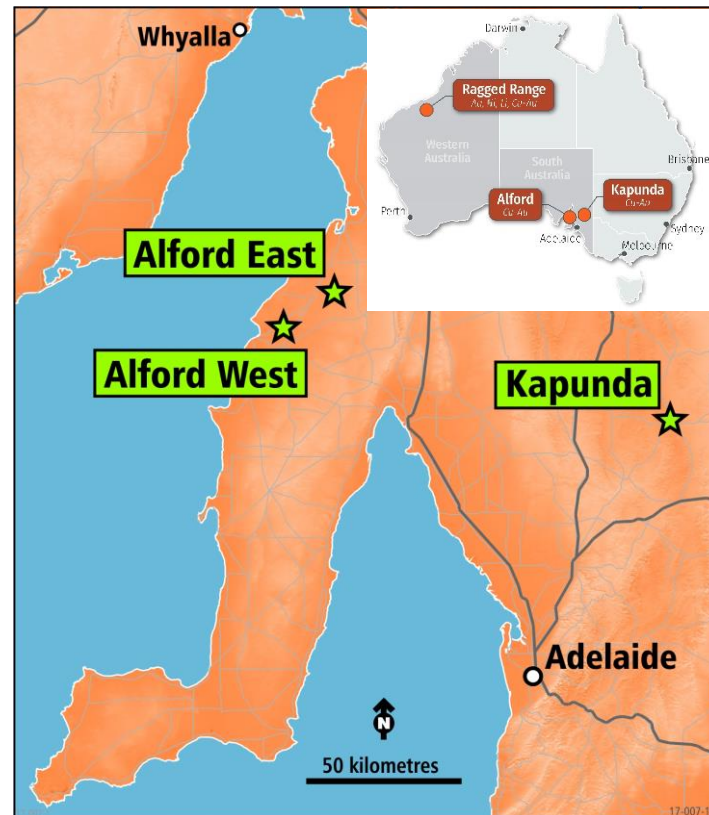
Infrastructure

- Many deposits are located adjacent to mains electricity and sealed highways and nearby towns that can provide workforce on a daily commute basis

Objective

- Production of copper (with some gold credits) using low-impact In-Situ Copper Recovery (ISCR) techniques with a very small environmental footprint.
- Protect the environment with economic opportunities created

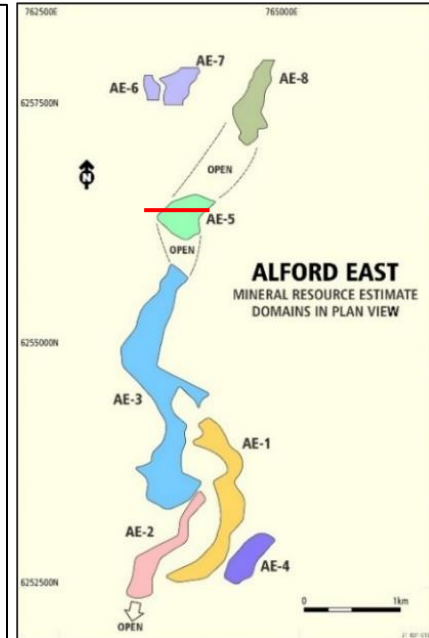
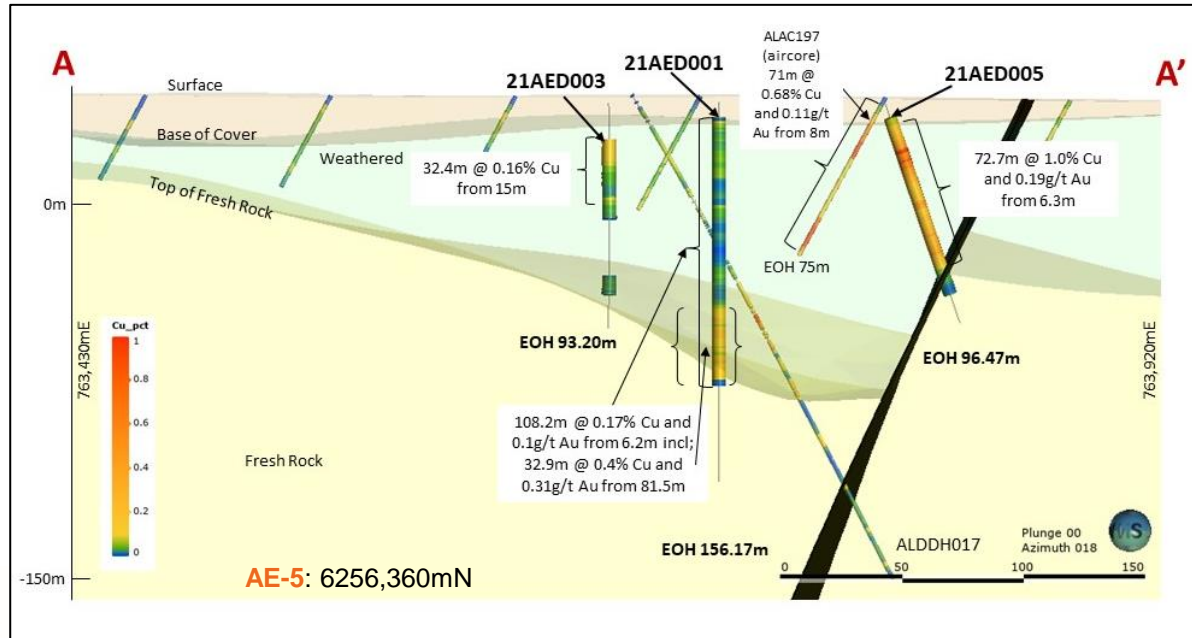
Thor Energy has a 30% Interest in a private company EnviroCopper Limited (ECL) that specialises in developing ISCR projects





Alford East Copper-Gold Project: High-Grade Results

- Broad high-grade copper-gold results (>500ppm) – ideal for ISR
- **Diamond drilling Phase 1 results included:**
 - 21AED005: **72.7m @ 1.0 % Cu and 0.19g/t Au from 6.3m**, including **18.2m @ 2.0% Cu and 0.34g/t Au**
 - 21AED001: **32.9m @ 0.4% Cu and 0.31g/t Au from 81.5m** (ASX:THR - 31 August 2021)



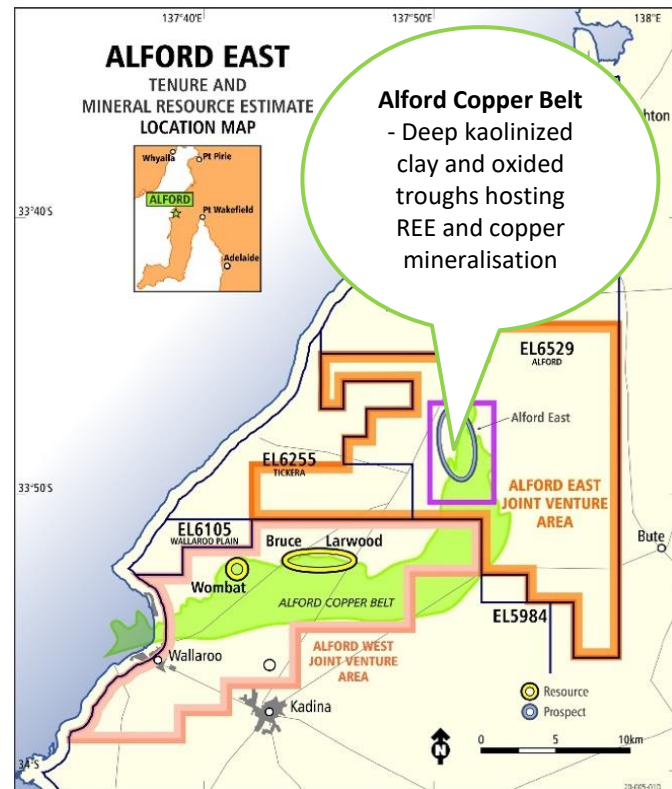


High-Grade REE Discovery

REE Review revealed:

- 8 out of 9 of the 2021 diamond drill holes intersected shallow wide zones of highly enriched REE's
- Mineralisation from 6.3m
- Including:
 - 1.8m @ 4597ppm TREO, 1279ppm MREO (28%), 2017ppm HREO (44%) and 3.62% Cu from 20m (21AEDD005)**
- REE mineralisation is in kaolin clay altered, copper rich oxide zones of IOCG style mineralisation.
- Mineralisation is open over a ~5km trend
- The kaolin association may represent an ionic style of REE mineralisation.
- REE analysis of available historic core and rock chips is underway to generate drill targets

(ASX/AIM:THR 26 April 2023)

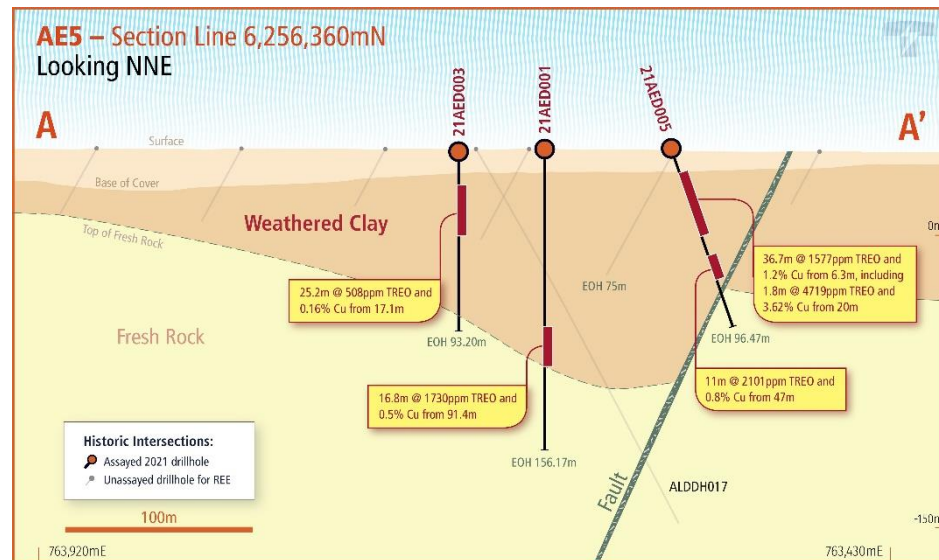




High grade REE results (TREO 500ppm Cut-off)

| Hole ID | From (m) | To (m) | Interval | TREO % | TREO ppm | MREO ppm | HREO ppm | % HREO to TREO | Cu % |
|------------------|-----------|-------------|------------|-------------|-------------|-------------|-------------|----------------|-------------|
| 21AEDD005 | 6.3 | 43 | 36.7 | 0.16 | 1577 | 399 | 662 | 42 | 1.20 |
| including | 17.8 | 23.8 | 6 | 0.31 | 3077 | 776 | 1495 | 49 | 2.10 |
| Including | 20 | 21.8 | 1.8 | 0.47 | 4719 | 1279 | 2017 | 43 | 3.62 |
| and | 47 | 58 | 11 | 0.21 | 2101 | 467 | 1093 | 52 | 0.80 |
| including | 54 | 57 | 3 | 0.42 | 4165 | 767 | 2626 | 63 | 0.90 |

(ASX/AIM:THR 26 April 2023)





Next Steps

News Flow



Scheduled on Ground Exploration Activities

URANIUM

Wedding Bell and Vanadium King Projects

- Airborne Geophysics – over all 3 Projects
- Permitting drilling program
- Follow up drilling at Section 23, Rim Rock and Groundhog
- Drilling at Vanadium King



Magnetic & Radiometric Survey



Drilling –Wedding Bell & Vanadium King

REE/COPPER

Alford East Project

- Metallurgical assessment of REE & Copper-Gold recoveries
- Sampling of historic core – REE
- Geophysics - Ambient Noise Tomography
- Drilling



Metallurgy –REE



Hydrogeology



Drilling –Alford East



Thor Energy (THR) – Key Takeaways



Uranium-Copper-REE - high value commodities with favourable fundamentals



Mining friendly jurisdictions – no sovereign risk



Strong pipeline of targets to drill test in 2023



Modest market cap – potential for significant rerating of share price with positive exploration results



Experienced board and management



Thank You

Nicole Galloway Warland

Managing Director

M: +61 417 006 431

nicole@energyplc.com

www.thorenergyplc.com

Twitter: @ThorEnergyPLC

Australian Office

6 The Parade NORWOOD SA 5067

P: +61 8 7324 1935



AIM/ASX: THR

OTCQB: THORF



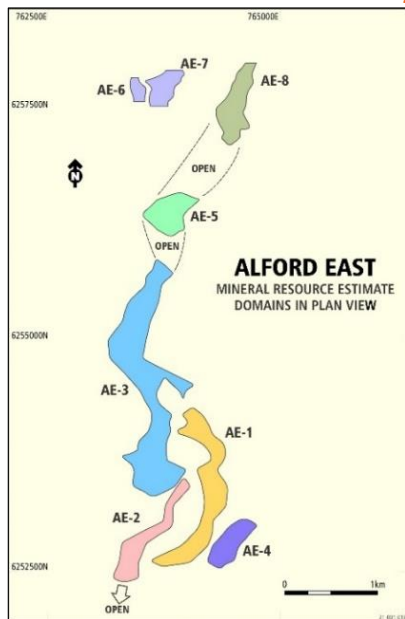
Supplementary Information



Alford East - Inferred Mineral Resource Estimate

Inferred Mineral Resource Estimate for the Alford East Project

22nd January 2021 – 0.05% Cu cut-off (oxide material only) (ASX:AIM/THR 27 January 2021)



| Domain | Tonnes (Mt) | Cu % | Au g/t | Contained Cu (t) | Contained Au (oz) |
|--------------|--------------|-------------|--------------|------------------|-------------------|
| AE_1 | 24.6 | 0.12 | 0.021 | 30,000 | 16,000 |
| AE_2 | 6.8 | 0.13 | 0.004 | 9,000 | 1,000 |
| AE_3 | 34.9 | 0.09 | 0.022 | 33,000 | 25,000 |
| AE_4 | 8.0 | 0.11 | 0.016 | 8,000 | 4,000 |
| AE_5 | 11.0 | 0.22 | 0.030 | 24,000 | 11,000 |
| AE-8 (NP) | 31.3 | 0.19 | 0.008 | 61,000 | 8,000 |
| AE-7 (LW_E) | 7.7 | 0.14 | 0.025 | 10,000 | 6,000 |
| AE-6 (LW_W) | 1.3 | 0.13 | 0.011 | 2,000 | 500 |
| Total | 125.6 | 0.14 | 0.018 | 177,000 | 71,500 |

- Thor Energy PLC to acquire 80% interest in the Alford East Project
- All figures are rounded to reflect appropriate levels of confidence. Apparent differences may occur due to rounding.
- 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.



Alford East REE Key Intercepts (TREO 500ppm Cut-off) (ASX:AIM:THR 24 April 2023)

| Hole ID | From (m) | To (m) | Interval | TREO % | TREO ppm | MREO ppm | HREO ppm | % HREO to TREO | Cu % |
|-----------|----------|--------|----------|--------|----------|----------|----------|----------------|------|
| 21AEDD001 | 17.4 | 25 | 7.6 | 0.07 | 703 | 172 | 128 | 18 | 0.11 |
| and | 55 | 58.7 | 3.7 | 0.07 | 681 | 139 | 308 | 45 | 0.05 |
| and | 91.4 | 108.2 | 16.8 | 0.17 | 1730 | 248 | 1189 | 69 | 0.50 |
| including | 105.5 | 107 | 1.5 | 0.49 | 4856 | 665 | 3545 | 73 | 0.72 |
| 21AEDD001 | 110 | 115 | 5 | 0.08 | 781 | 165 | 108 | 14 | 0.35 |
| 21AEDD002 | 30.4 | 42 | 11.6 | 0.17 | 1706 | 583 | 584 | 34 | 0.26 |
| including | 34 | 40.1 | 6.1 | 0.23 | 2269 | 769 | 840 | 37 | 0.35 |
| and | 50.2 | 53.3 | 3.1 | 0.12 | 1169 | 259 | 685 | 59 | 0.16 |
| and | 65.5 | 75.3 | 9.8 | 0.08 | 753 | 145 | 457 | 61 | 0.33 |
| 21AEDD003 | 17.1 | 42.3 | 25.2 | 0.05 | 508 | 92 | 123 | 24 | 0.16 |
| 21AEDD004 | 10.1 | 11.7 | 1.6 | 0.25 | 2454 | 680 | 188 | 8 | 0.23 |
| 21AEDD004 | 19 | 23 | 4 | 0.08 | 817 | 190 | 169 | 21 | 1.14 |
| 21AEDD004 | 28 | 38 | 10 | 0.08 | 803 | 173 | 145 | 18 | 0.62 |
| including | 35 | 36.4 | 1.4 | 0.23 | 2321 | 482 | 174 | 7 | 0.83 |
| and | 42.8 | 55.9 | 13.1 | 0.14 | 1387 | 273 | 388 | 28 | 0.45 |
| including | 50 | 51 | 1 | 0.21 | 2081 | 447 | 302 | 15 | 0.70 |
| 21AEDD005 | 6.3 | 43 | 36.7 | 0.16 | 1577 | 399 | 662 | 42 | 1.20 |
| including | 17.8 | 23.8 | 6 | 0.31 | 3077 | 776 | 1495 | 49 | 2.10 |
| Including | 20 | 21.8 | 1.8 | 0.47 | 4719 | 1279 | 2017 | 43 | 3.62 |
| and | 47 | 58 | 11 | 0.21 | 2101 | 467 | 1093 | 52 | 0.80 |
| including | 54 | 57 | 3 | 0.42 | 4165 | 767 | 2626 | 63 | 0.90 |
| 21AEDD006 | 18 | 47 | 29 | 0.1 | 974 | 222 | 197 | 20 | 0.07 |
| including | 25.2 | 26.5 | 1.3 | 0.26 | 2580 | 175 | 211 | 8 | 0.46 |
| and | 52 | 60.6 | 8.6 | 0.07 | 706 | 107 | 99 | 14 | 0.09 |
| and | 74.9 | 87.1 | 12.2 | 0.09 | 920 | 201 | 156 | 17 | 0.07 |
| including | 84.3 | 86 | 1.7 | 0.32 | 3204 | 755 | 249 | 8 | 0.11 |
| 21AEDD007 | 13 | 30 | 17 | 0.09 | 916 | 256 | 245 | 27 | 0.13 |
| including | 19 | 20 | 1 | 0.22 | 2237 | 700 | 547 | 24 | 0.16 |
| and | 33 | 40 | 7 | 0.1 | 1028 | 178 | 318 | 31 | 0.10 |
| including | 33 | 34 | 1 | 0.17 | 1680 | 286 | 542 | 32 | 0.15 |
| 21AEDD008 | 7.8 | 10.6 | 2.8 | 0.09 | 881 | 184 | 94 | 11 | 0.14 |





In Situ Recovery (ISR)

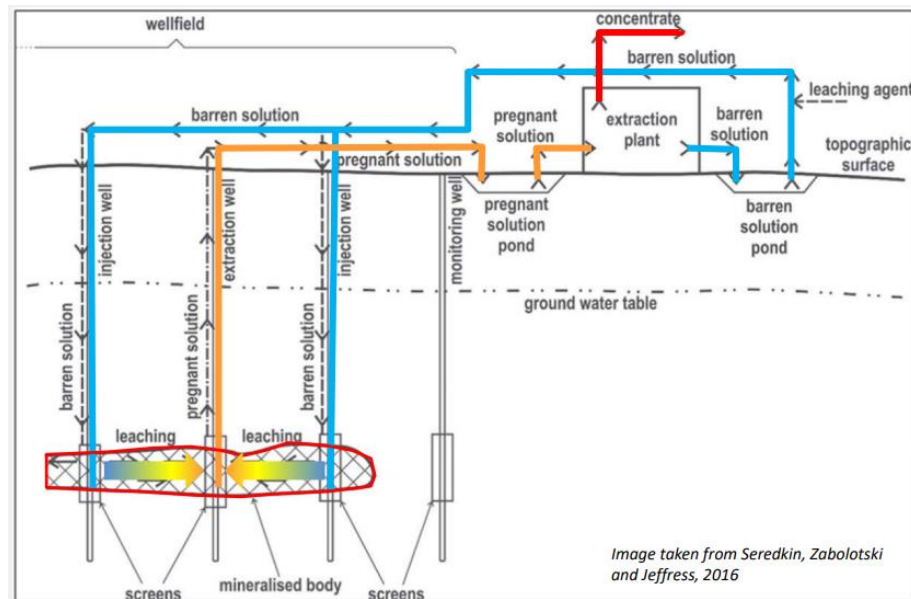
- ESG – Favourable alternative to traditional mining
- Low-cost / low environmental impact metal production
- Chemical process rather than a high-cost mining operation (no large pit / no crushing or grinding / no waste dumps etc)
- ISR techniques have been utilised commercially in South Australia for >15 years – Thor has the expertise locally

Refer to Thor website for ISR explanatory video:

<https://thorenergyplc.com/projects/alford-copper-projects/>

ISR –Copper Projects (Arizona, USA)

- Florence Project – Taseko Mines
- Van Dyke Project Copper Fox Metals
- Gunnison Project, Excelsior Mining Corp





Thank You

Nicole Galloway Warland

Managing Director

M: +61 417 006 431

nicole@energyplc.com

www.thorenergyplc.com

Twitter: @ThorEnergyPLC

Australian Office

6 The Parade NORWOOD SA 5067

P: +61 8 7324 1935



AIM/ASX: THR

OTCQB: THORF