

14 March 2023

## GTI SECURES DRILLING DATA WITH REPLACEMENT VALUE OF \$15m FOR LO HERMA TO ACCELERATE JORC U<sub>3</sub>O<sub>8</sub> RESOURCE FOR Q2 – RAISES CAPITAL

### Highlights

- Historical drilling data with an estimated replacement value of ~\$15million<sup>1</sup> acquired for Lo Herma including drill logs for 1,445 drill holes (~530,000 ft) representing 7 x the holes, & ~5 x the footage, drilled by GTI to date in Wyoming
- Drill logs acquired demonstrate sandstone hosted uranium mineralisation with economic potential in the Powder River Basin's productive Fort Union formation
- GTI believes sufficient historical data may exist to report an inferred mineral resource for Lo Herma by the end of Q2, without further drilling
- Lo Herma is a significant land position with ~8,000 acres in Wyoming's prolific Powder River Basin, ISR uranium district
- Project is located 10 miles from Cameco's Smith Ranch-Highland ISR uranium plant (largest production site in Wyoming) & within 100 miles of Peninsula Energy (PEN) & Ur-Energy (URE) who both plan to be back in production by April 2023
- 5 permitted ISR uranium production facilities & several satellite uranium deposits are located within ~50 miles of Lo Herma
- Commitments received for a \$2.3m placement to fund Lo Herma's development

GTI Energy Ltd (**GTI** or **Company**) is pleased to advise that it has secured a material historical data package (the **Data**) for its newly staked Lo Herma Project, in Wyoming's prolific Powder River Basin uranium district (**Figures 1 & 2**) (**Lo Herma** or **Project**).

### LO HERMA PROJECT – LOCATION & BACKGROUND

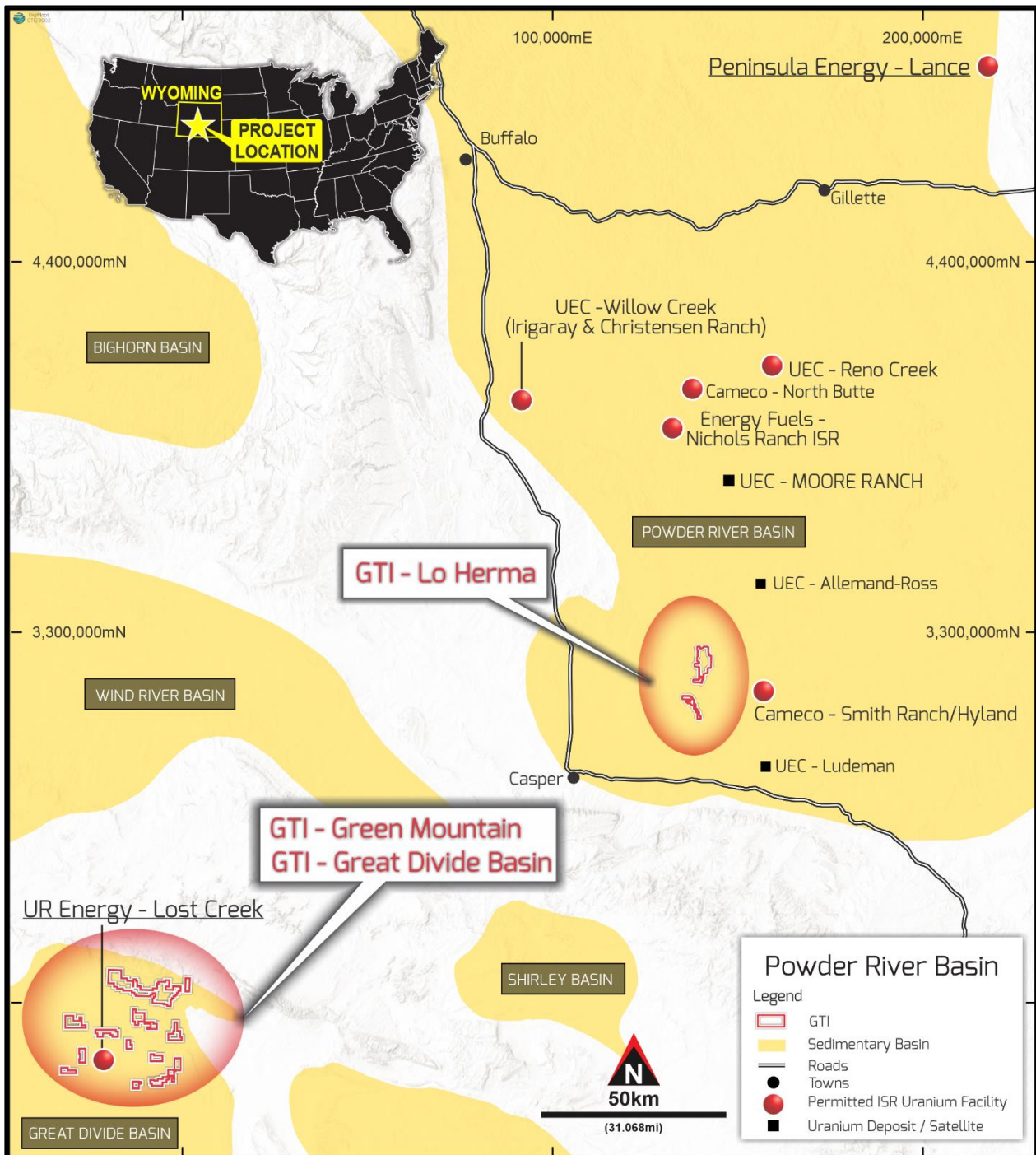
Lo Herma is located in Converse County, Powder River Basin (PRB), Wyoming (WY). The Project lies approximately 15 miles north of the town of Glenrock (WY) and within ~50 miles of five (5) permitted ISR uranium production facilities. These facilities include UEC's Willow Creek (Irigaray & Christensen Ranch) & Reno Creek ISR plants, Cameco's Smith Ranch-Highland ISR facilities and Energy Fuels Nichols Ranch ISR plant (**Figure 1**). The Powder River Basin has extensive ISR uranium production history and has been the backbone of Wyoming uranium production since the 1970s.

Cameco's Smith Ranch-Hyland operation (with mineralisation hosted in the Fort Union Formation) has been the largest uranium production contributor, by a significant margin, in recent times (see ASX release 21 February 2023).

<sup>1</sup> Based on 530,000 feet of drilling at a current estimated "all in" drilling cost of US\$20 p/foot & an exchange rate of A\$0.70 per US\$1

**GTI Executive Director Bruce Lane commented** “We are delighted that we have secured a comprehensive historical drilling data package for the Lo Herma Project. The project area was extensively drilled during the 1970’s and we estimate that it would cost GTI around \$15 million and take a number of drilling seasons to replicate. The data will vastly improve our understanding of the project and is likely to dramatically accelerate progress towards reporting a uranium resource at Lo Herma – we believe that an inferred JORC mineral resource estimate may be reported at Lo Herma, without drilling, before the end of June this year. This would set GTI up for verification drilling during the Wyoming summer. We’re excited by the prospect of potentially being able to deliver a uranium resource in Q2 at the Project in Wyoming’s most prolific production district. This is in addition to the resource definition work underway at our Great Divide Basin project, which is on track for a maiden resource report by the end of Q1. This comes at a time when market fundamentals for uranium continue to improve, especially for Wyoming producers”

**FIGURE 1. GTI’S LO HERMA PROJECT LOCATION, POWDER RIVER BASIN, WYOMING**



## **LO HERMA HISTORICAL DATA SUMMARY**

The Data was a product of drilling conducted by Pioneer Nuclear, in joint venture with Texas Gulf, during roughly a decade between 1970 and 1980. The Data was acquired for US\$950,000 from an independent 3<sup>rd</sup> party, not related to GTI, and consists of:

- 1,800 paper drill logs (~657,000 feet of drilling), 1,445 (~530,000 feet) of which are assessed to pertain to the Lo Herma Project area, variously including downhole geophysical and lithological logs with geophysical probe calibration for all logs. The package also includes some gamma calculation records and some downhole deviation drill hole deviation data;
- drill maps including overall maps at 1"=2,000 ft scale maps with historic claims. There are also 1"=200 ft scale drill maps with hole locations for the areas drilled and 1"=50 ft scale maps for areas of close spaced drilling with mineralized intercepts posted;
- a single report, prepared by Pioneer Nuclear in 1979, on ground water hydrology that includes maps showing the projected water table for the C1, C2, & C3 mineralised horizons. The report includes a summary table of estimated mineral resources; and
- Some limited data on radiometric equilibrium and some core assay sheets identified by sample number rather than hole number and depth.

The available Data is original and GTI believes that it includes the necessary information to develop a drill database suitable for preparation of a current mineral resource estimate.

The Data is believed to be of sufficient quality to potentially allow for interpretation of the data via digitization of the original logs and converting the counts per second (CPS) analog data to equivalent uranium grade (eU<sub>3</sub>O<sub>8</sub>).

Preliminary due diligence indicates that, if the drill Data were current, the drill spacing and continuity could potentially allow for resource estimation in modern categories of indicated and inferred mineral resources. Initially, if any mineral resources are able to be estimated, the resources would most likely need to be reported as inferred given the historic nature of the data. If subsequent verification is completed, by re-logging (if possible) or twinning a representative number of drill holes, this could allow re-classification of the mineral resources based on drill spacing and continuity as appropriate. The Company acknowledges that any potential resource estimate is qualified by the current deficiencies in the Data including but not limited to a lack of disequilibrium data, location surveys, & definition of the ground water regime – GTI's initial plans are to generate this data during the coming months through further fieldwork & potentially drilling.

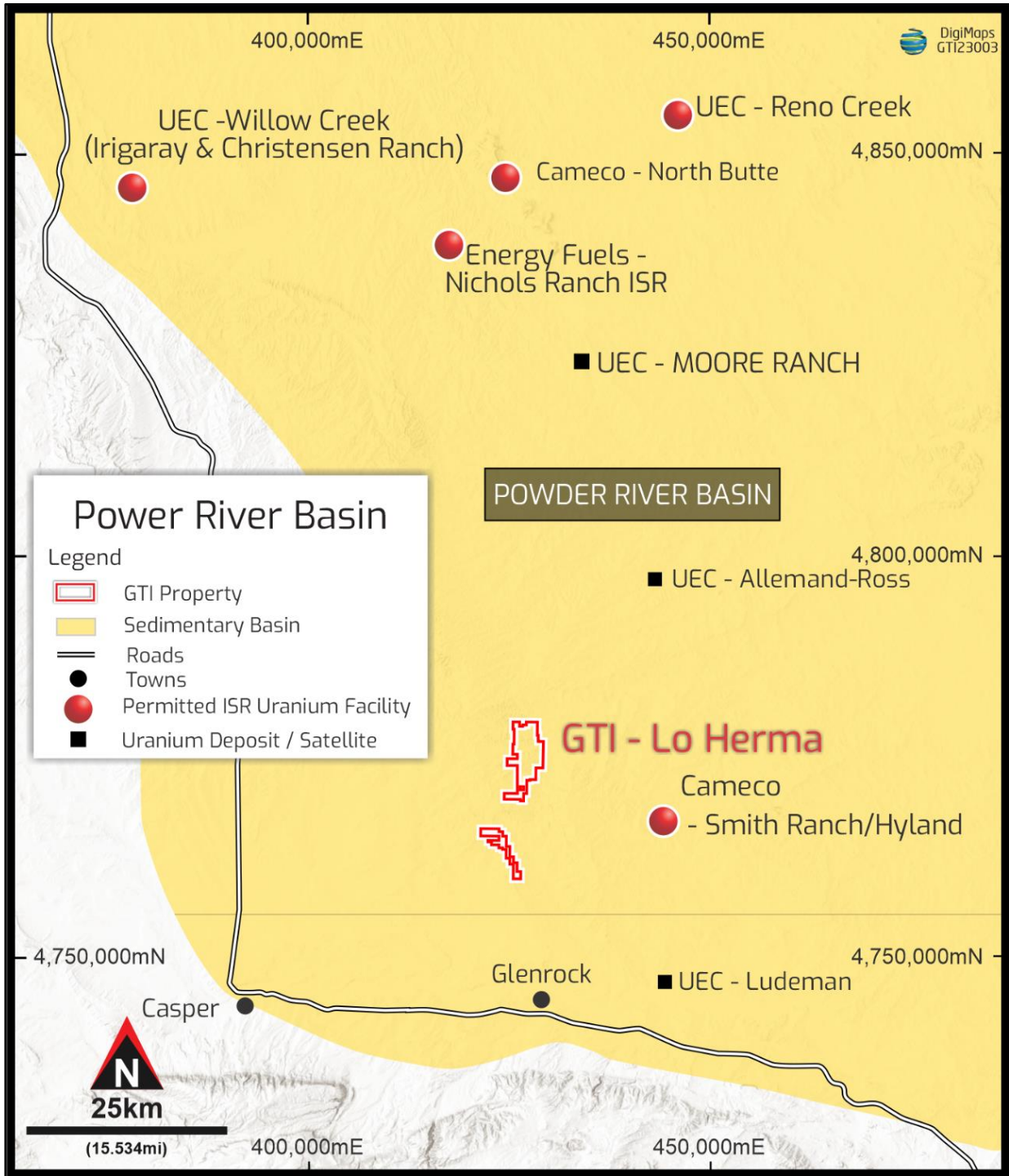
## **LO HERMA DATA PACKAGE NEXT STEPS**

GTI has commenced taking the steps necessary to convert the drill data to a modern electronic database including scanning and digitization of the drill logs before converting the digital data (½ foot data in CPS) into equivalent uranium grade eU<sub>3</sub>O<sub>8</sub>. The geophysical logs will also be correlated with the lithological information to separate the ½ foot data into correlatable mineralized horizons. In addition, drill maps will be scanned & digitized to estimate drill hole coordinates & digital elevation models (DEM) will be acquired from public sources to project elevations for the drill holes. Field verification will follow by surveying a representative number of the drill holes.

The Company also plans to complete a drill verification program in the future, including coring and analyses to determine disequilibrium conditions. This program is also expected to incorporate a hydrological investigation of the project focusing on the hydrostatic head available for each mineralized horizon and an ariel geophysics survey.

The Company will provide further updates on progress in evaluating the data in due course.

**FIGURE 3. LO HERMA URANIUM PROJECT LOCATION, CONVERSE COUNTY, WYOMING**



**CAPITAL RAISING**

In connection with the Data acquisition, GTI is conducting a placement of 260,000,000 Shares, pursuant to ASX Listing Rules 7.1 and 7.1A, at an issue price of \$0.009 to raise \$2,340,000 (before costs) with one (1) free attaching listed GTRO option (exercisable @ \$0.03, expiring 20 October 2024) to be issued to subscribers (**Placement Option**) for every 2 shares subscribed (**Placement**).

260,000,000 Placement Shares will be issued using the Company’s existing capacity under ASX Listing Rule 7.1 (111,230,000 Placement Shares) and 7.1A (148,770,000 Placement Shares) and 130,000,000 Placement Options will be issued subject to shareholder approval.

The funds raised from the Placement will be used to fund the development and exploration of the Lo Herma Project, pay costs of the Capital Raisings and for working capital.

CPS Capital Group Pty Ltd is the lead manager and arranger to the Placement and will receive a 6% cash fee for the funds placed under the Placement. CPS may, by negotiation, pay a placing fee to third parties of up to 4%, plus GST where applicable under the Placement.

CPS or its nominee/s will also receive 10,000,000 Lead Manager listed GTRO options (**Lead Manager Options**) and up to 26,000,000 listed GTRO options (**Placement Fee Options**).

The existing CPS corporate advisory mandate will continue for 12 months on the current terms.

The Lead Manager Options and Placement Fee Options will be issued using the Company's existing capacity pursuant to ASX Listing Rule 7.1.

**TABLE 1: PROFORMA CAPITAL STRUCTURE AFTER THE PLACEMENT**

	Shares	%	Options (GTRO)
<b>Securities Currently on Issue</b>	1,505,483,579	85.27%	203,563,707
<b>Placement Securities</b>	260,000,000	14.73%	130,000,000
<b>Placement Lead Manager &amp; Broker Fee Options</b>			36,000,000
<b>Total Shares &amp; Options</b>	<b>1,765,483,579</b>	<b>100%</b>	<b>369,563,707</b>

GTI is also considering the terms for a potential pro-rata offer to all existing shareholders, the terms of which are yet to be finalised. Further information will be provided in due course.

**-Ends-**

This ASX release was authorised by the Directors of GTI Energy Ltd. Bruce Lane, (Director), **GTI Energy Ltd**

#### **Competent Persons Statement**

*Information in this announcement relating to Exploration Results is based on information compiled and fairly represents the exploration status of the project. Doug Beahm has reviewed the information and has approved the scientific and technical matters of this disclosure. Mr. Beahm is a Principal Engineer with BRS Engineering Inc. with over 45 years of experience in mineral exploration and project evaluation. Mr. Beahm is a Registered Member of the Society of Mining, Metallurgy and Exploration, and is a Professional Engineer (Wyoming, Utah, and Oregon) and a Professional Geologist (Wyoming). Mr Beahm has worked in uranium exploration, mining, and mine land reclamation in the Western US since 1975 and has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and has reviewed the activity which has been undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of exploration results, Mineral Resources & Ore Reserves. Mr Beahm provides his consent to the information provided.*

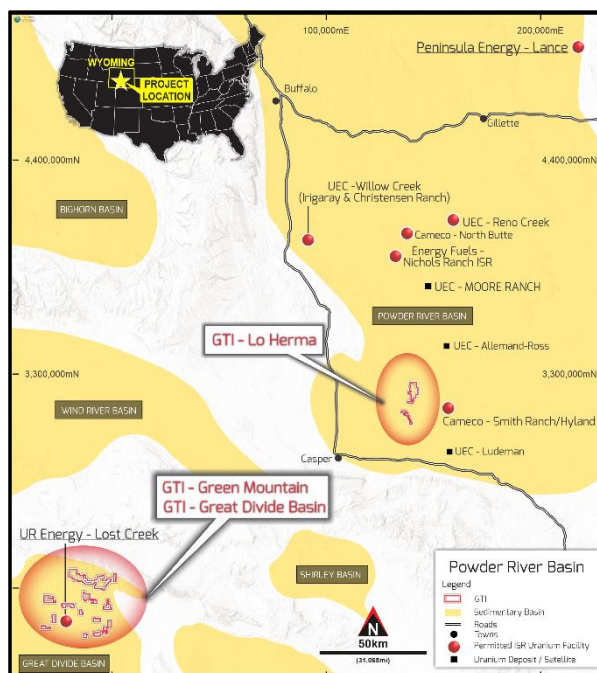
#### **Caution Regarding Forward Looking Statements**

*This announcement may contain forward looking statements which involve a number of risks and uncertainties. Forward-looking statements are expressed in good faith and are believed to have a reasonable basis. These statements reflect current expectations, intentions or strategies regarding the future and assumptions based on currently available information. Should one or more risks or uncertainties materialise, or should underlying assumptions prove incorrect, actual results may vary from the expectations, intentions and strategies described in this announcement. The forward- looking statements are made as at the date of this announcement and the Company disclaims any intent or obligation to update publicly such forward looking statements, whether as the result of new information, future events or results or otherwise.*

## GTI ENERGY LTD – PROJECT PORTFOLIO

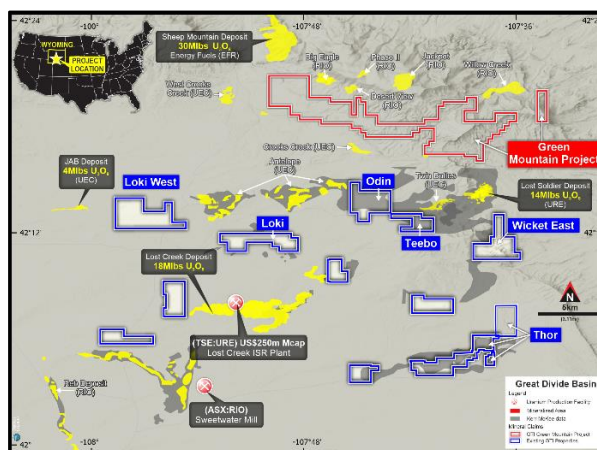
### POWDER RIVER BASIN, ISR URANIUM, WYOMING, USA

GTI holds 100% of ~8,000 acres (~3,500 hectares) over a group of strategically located mineral lode claims (**Claims**) highly prospective for sandstone hosted uranium. The Lo Herma Project (**Lo Herma**) is located in Converse County, Powder River Basin, Wyoming. The project lies approximately ~15 miles north of Glenrock and within ~50 miles of 5 permitted ISR uranium production facilities & several satellite ISR uranium deposits. These facilities include UEC's Willow Creek (Irigaray & Christensen Ranch) & Reno Creek ISR plants, Cameco's Smith Ranch-Highland ISR facilities and Energy Fuels Nichols Ranch ISR plant. The Powder River Basin has an extensive ISR uranium production history and has been the backbone of the Wyoming uranium production business since the 1970s.



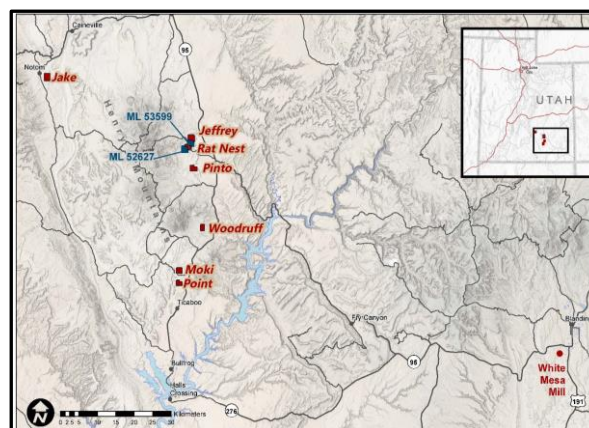
### GREAT DIVIDE BASIN & GREEN MOUNTAIN ISR URANIUM, WYOMING, USA

GTI Energy holds 100% of ~34,000 acres (~13,500 hectares) over several groups of strategically located and underexplored mineral lode claims (**Claims**) & 2 state leases (**Leases**), prospective for sandstone hosted uranium that is amenable to low cost, low environmental impact ISR mining. The properties are located in the Great Divide Basin (**GDB**) and at Green Mountain<sup>2</sup>, Wyoming, USA. The properties are located in proximity to UR-Energy's (**URE**) operating Lost Creek ISR Facility the GDB roll front REDOX boundary. The Green Mountain Project contains a number of uranium mineralised roll fronts hosted in the Battle Springs formation near several major uranium deposits held by Rio Tinto.



### HENRY MOUNTAINS CONVENTIONAL URANIUM/VANADIUM, UTAH, USA

The Company has ~1,800 hectares of land holdings in the Henry Mountains region of Utah, within Garfield & Wayne Counties. Exploration has focused on approximately 5kms of mineralised trend that extends between the Rat Nest & Jeffrey claim groups & includes the Section 36 state lease block. Uranium & vanadium mineralisation in this location is generally shallow at 20-30m average depth. The region forms part of the Colorado Plateau. Sandstone hosted ores have been mined here since 1904 and the mining region has produced over 17.5Mt @ 2,400ppm U<sub>3</sub>O<sub>8</sub> (92Mlbs U<sub>3</sub>O<sub>8</sub>) & 12,500ppm V<sub>2</sub>O<sub>5</sub> (482Mlbs V<sub>2</sub>O<sub>5</sub>)<sup>3</sup>.



<sup>2</sup> <https://www.asx.com.au/asxpdf/20220406/pdf/457rgrxcdh0v8p.pdf>

<sup>3</sup> Geology and recognition criteria uranium deposits of the salt wash types, Colorado Plateau Province, Union Carbide Corp, 1981, page 33