

ASX Announcement

15th November 2023

DRILLING COMMENCES AT LO HERMA ISR URANIUM PROJECT IN WYOMING

- Mud rotary **drilling has started** at GTI's Lo Herma ISR uranium deposit.
- Initial drilling of up to **26 holes (~15,000ft/~4,600m) to validate and upgrade the maiden JORC inferred resource** of 5.7Mlbs U₃O₈ at average grade 630ppm
- Drilling to also **target exploration potential** along trend in the **Wasatch** Formation & in the deeper **Fort Union** Formation which Cameco produces from ~10 miles west.
- **Lo Herma is ~10miles from the US's largest ISR U₃O₈ production plant at Cameco's Smith Ranch-Hyland & ~60 miles from UEC's Irigaray & Energy Fuels' Nichols Ranch**

GTI Energy Ltd (GTI or Company) advises that drilling has now commenced at its 100% owned Lo Herma ISR Uranium Project (**Lo Herma**) located in Wyoming's prolific Powder River Basin (**Figures 1 & 2**). The drill program is utilising mud rotary drilling & down hole gamma logging.

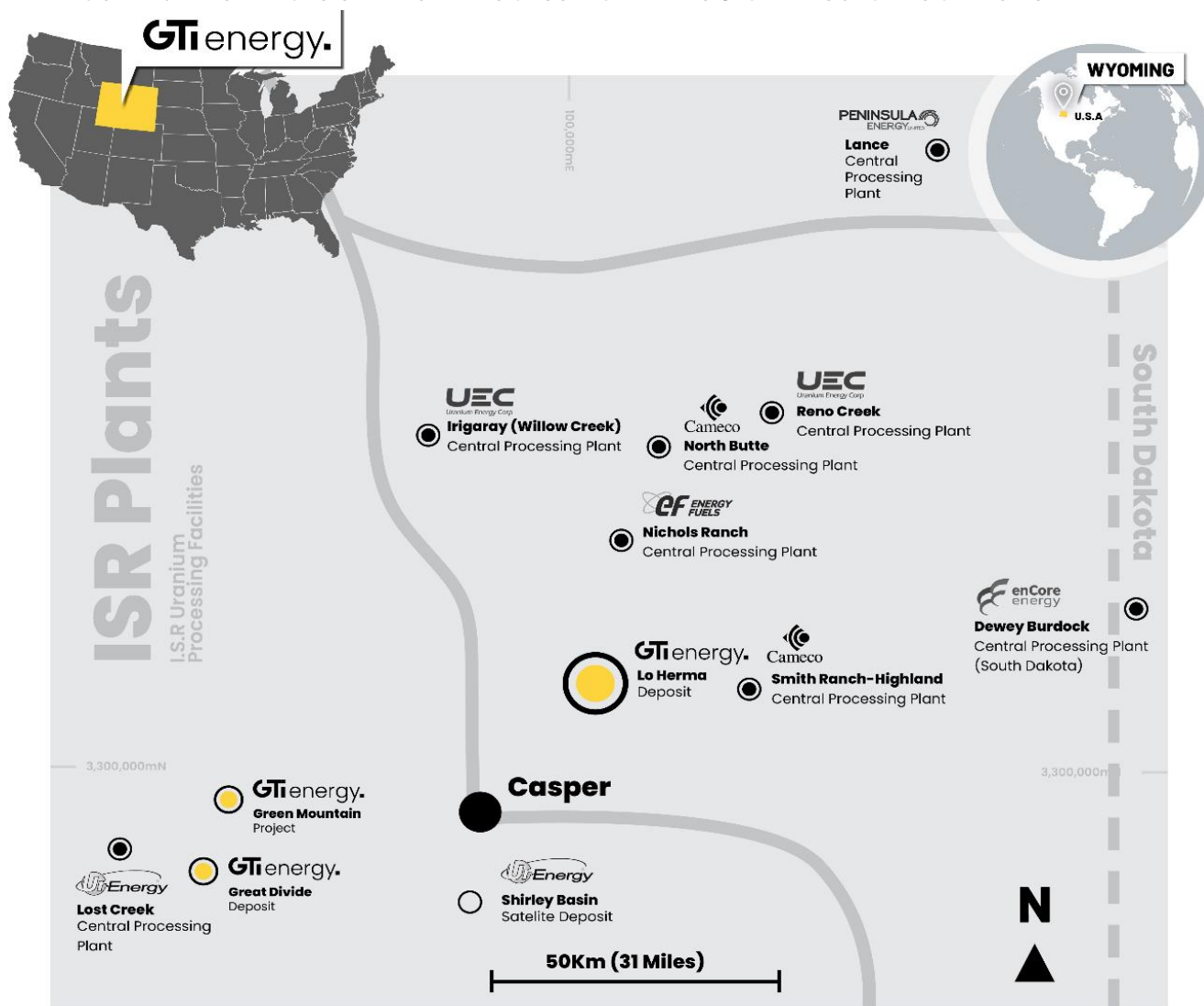
FIGURE 1. MUD ROTARY DRILLING AT GTI'S LO HERMA PROJERCT, POWDER RIVER BASIN (WY)



LO HERMA URANIUM PROJECT – LOCATION & BACKGROUND

The Lo Herma ISR Uranium Project (**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 and close to seven (7) 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 2**). The Powder River Basin has extensive ISR uranium production history with numerous defined ISR uranium resources, central processing plants (**CPP**) & satellite deposits (**Figure 2**). The Powder River Basin has been the backbone of Wyoming U_3O_8 production since the 1970s.

FIGURE 2. WYOMING IS URANIUM PROCESSING PLANTS & GTI PROJECT LOCATIONS¹



ISR PLANT/S	MILES FROM GTI DEPOSIT	ISR PLANTS COMBINED PERMITTED CAPACITY	ISR PLANT/S	MILES FROM GTI DEPOSIT	ISR PLANTS COMBINED PERMITTED CAPACITY
Cameco	< 10	5,500,000	enCore energy	< 100	1,000,000
UEC Uranium Energy Corp	< 60	6,300,000	PENINSULA ENERGY	< 110	3,000,000
Energy Fuels	< 15-60	3,200,000	Energy Fuels	< 45	2,000,000

¹ Data sources are detailed on Page 4. ISR uranium deposits and plant locations are approximated.

As reported to ASX on 14 March 2023, a comprehensive historical data package, with an estimated replacement value of ~\$15m, was purchased for the Lo Herma project in March of 2023. The data package includes original drill data for roughly 1,771 drill holes, from the 1970's and 1980's, pertaining to the Lo Herma region. 1,391 original drill hole logs were digitised for gamma count per second (CPS) data and converted to eU₃O₈% grades. 845 of the drill holes were located on GTI's current land position & used to prepare the Mineral Resource Estimate.

An initial exploration target for the Lo Herma project was previously announced to the ASX on 4 April 2023. An additional data package containing previously unavailable drill maps with geologically interpreted redox trends was subsequently secured by GTI as announced to the ASX on 27 June 2023. The additional redox trend interpretations allowed for an update of the previously reported Lo Herma exploration target (**Table 1**).

TABLE 1: SUMMARY OF INFERRED MRE & EXPLORATION TARGETS (ASX 5 JULY 2023)

INFERRED RESOURCE	TONNES (MILLIONS)		AVERAGE GRADE (PPM U ₃ O ₈)		CONTAINED U ₃ O ₈ (MILLION POUNDS)	
LO HERMA INFERRED MRE	4.11		630		5.71	
GDB INFERRED MRE	1.32		570		1.66	
TOTAL INFERRED RESOURCES	5.43				7.37	
EXPLORATION TARGETS	MIN TONNES (MN TONNES)	MAX TONNES (MN TONNES)	MIN GRADE (ppm U ₃ O ₈)	MAX GRADE (ppm U ₃ O ₈)	MIN MN LBS U ₃ O ₈	MAX MN LBS U ₃ O ₈
GDB EXPLORATION TARGET	6.55	8.11	420	530	6.10	9.53
LO HERMA EXPLORATION TARGET	5.32	6.65	500	700	5.87	10.26
TOTAL EXPLORATION TARGET	11.87	14.76			11.97	19.79

The potential quantity and grade of the Exploration Targets is conceptual in nature and there has been insufficient exploration to estimate a JORC-compliant Mineral Resource Estimate. It is uncertain if further exploration will result in the estimation of a Mineral Resource in the defined exploration target areas.

DRILLING PLAN

The initial drilling program is a 26-hole (~15,000ft/~4,600m) campaign to both confirm a subset of historical drill holes as well as explore untested locations and depths. Drilling is expected to average 500 feet with a maximum potential depth of 1,500 feet.

Several of the drill holes are sited to target locations for confirmation of the historical drilling data. If conditions allow, the drillers will attempt to recover rock core samples of the mineralized zone for metallurgical testing. In addition to the confirmatory drilling, drill holes have been planned to test the alteration conditions of the host sand units across the property and geologic strata. This will help in further refining the locations of the projected REDOX trends and in improving targets for future exploration. These stratigraphic holes will also bring the benefit of testing the deeper sand units of the Fort Union formation which were historically underexplored.

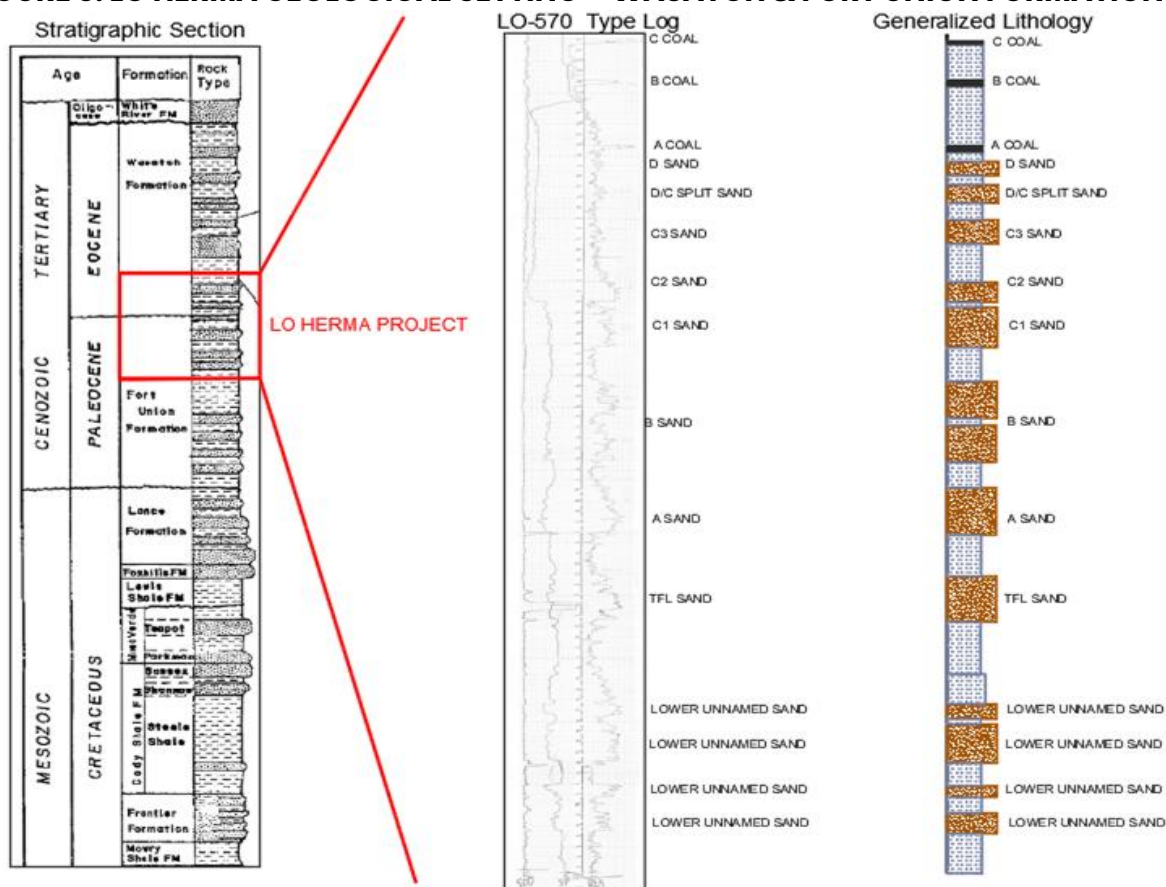
This initial program is part of a larger permitted campaign totalling 68 holes with the balance of the campaign to be refined & assessed for execution during 2024 subject to results.

EXPLORATION POTENTIAL

The project's exploration potential (**Table 1**) includes interpreted roll front trends identified from historical drill results and trend maps. Much of the historical drilling was limited to 400 feet or so in depth, which indicates historical exploration targeted shallower mineralisation for conventional mining methods. However, a number of drill holes both within and outside the Lo Herma project area have

identified mineralisation at depth within what is interpreted to be the Fort Union Formation. This leaves the deeper sands of the Fort Union (**Figure 3**) as a relatively underexplored target for potential additional roll front systems across the project area.

FIGURE 3. LO HERMA GEOLOGICAL SETTING – WASATCH & FORT UNION FORMATIONS



-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, Exploration Targets, and Mineral Resources 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. The Company confirms that it is not aware of any new information or data that materially affects the information included in this announcement and, in the case of mineral resource estimates, that all material assumptions and technical parameters underpinning the estimates in this announcement continue to apply and have not materially changed.

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.

Data Source References for Figure 2

- <https://www.eia.gov/uranium/production/quarterly/quptable4.php>
- https://www.sec.gov/Archives/edgar/data/1334933/000143774922022435/ex_423213.htm
- <https://www.cameco.com/businesses/uranium-operations/suspended/smith-ranch-highland/reserves-resources>
- https://d1io3yog0uux5.cloudfront.net/_0165d3b080b7dd266644acb9bb79777d/urenergy/db/640/5509/pdf/202306+June+Corp+Presentation.pdf
- <http://static1.1.sqspcdn.com/static/1/503515/5753362/1266121044317/Lost+Soldier+43-101.pdf>
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