



4 April 2022

## Additional Drill Locations Identified

- Three drill locations independent to the Jesse prospect identified, significantly de-risking the Red Helium Project
- Drill-ready Earp prospect permitting in preparation for Earp#1
- Four follow-on appraisal/development well locations identified on Jesse prospect
- Permitting schedule supports drilling of a second well early Q3 2022

Grand Gulf Energy Ltd (ASX:GGE) (“Grand Gulf” or the “Company”) is pleased to advise it has confirmed drilling locations on three discrete independent additional helium prospects (Earp, Oakley and Kit Prospects) within the Red Helium project defined by 315kms of high quality reprocessed 2D seismic and historical well control. The confirmation of three additional discrete helium prospects is an important technical development as it de-risks the Red Helium project by providing a number of independent helium prospects within the Red Helium project.

The prospects are considered independent due to structure associated with well-defined and favorably-timed strike-slip faulting. This faulting markedly diversifies the Grand Gulf exploration portfolio while providing conduits for basement-derived helium and pathways for magnesium rich geothermal brines. Similar to the adjacent analog field (Doe Canyon), these brines lead to hydrothermal dolomitization and the potential for anomalously high porosities and permeabilities.

Six historic wells exclusively targeting hydrocarbons were drilled within the project AML, proving trap, seal, reservoir presence and gas charge and a working helium system, to differing degrees within each prospect. Several wells tested non-flammable gas, the only two analysed for helium confirmed helium presence.

The prospects target the prolific proven helium-producing Mississippian Leadville formation and form the basis of the September 2021 Maiden Helium Prospective Resource. In addition, there is identified running room with numerous other leads in the project area and deeper stratigraphic potential, particularly the Devonian McCracken sandstone formation.

Prospect	Status	Operational Status
Jesse	Drill Ready	Spud mid-April
Earp	Drill Ready	Permitting in preparation
Oakley	Mature	Final location under investigation
Kit	Mature	Final location under investigation

**Table 1 – Red Helium Program independent prioritised prospect status**

Given the large contiguous area of the Jesse prospect, the Company has also identified four technically mature step-out locations to help delineate the Jesse prospect area which can be quickly accelerated to drill-ready status. All drill locations are adjacent to existing pipelines connected to helium offtake partner Paradox Resources’ Lisbon Helium Processing Facility. The sequence and timing of subsequent wells will be dependent on results at Jesse#1, with permitting of additional wells expected to be complete in time to support an early Q3 follow-up drilling campaign.

The Company’s maiden pure play helium well Jesse#1 is scheduled for spud on 15 April 2022.

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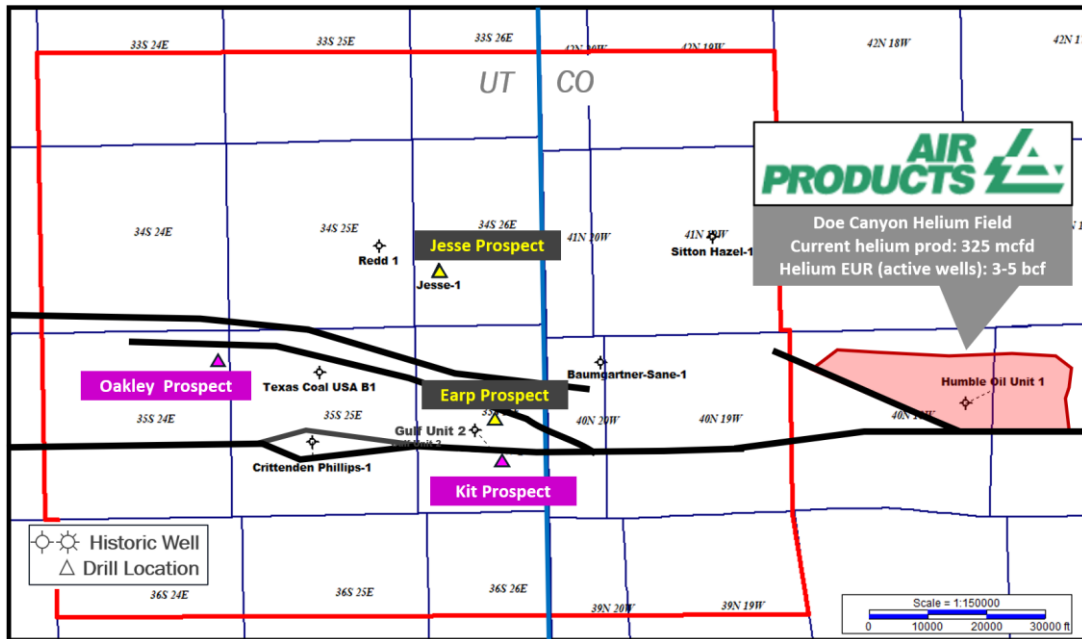


Figure 1: Jesse#1 location and additional independent prospect drill locations in the Red Helium project AMI with Doe Canyon Analog helium field (Air Products market cap US\$55B)<sup>1</sup>

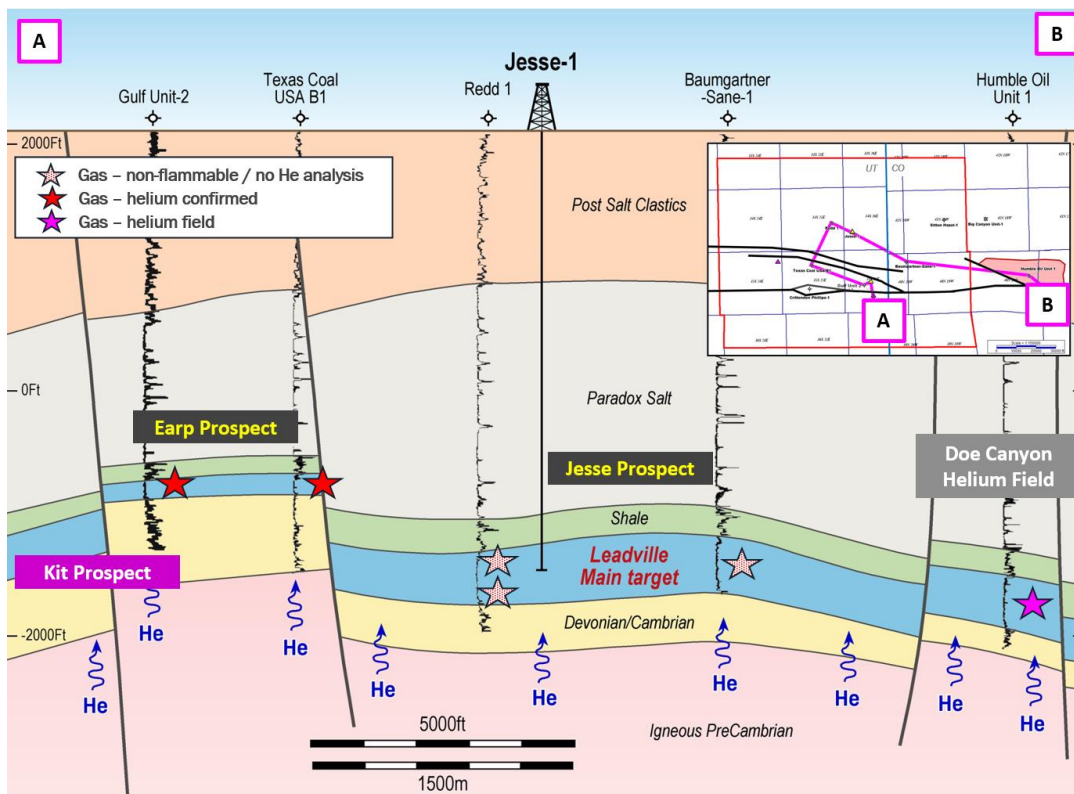


Figure 2: Stratigraphic cross section showing Jesse#1 location, Earp and Kit prospects, Doe Canyon helium field and historic gas samples

<sup>1</sup> 1st April 2022 <https://www.bloomberg.com/quote/APD:US>



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Recoverable helium (bcf)	P90 (1U)	P50 (2U)	P10 (3U)
Gross to Valence (28,046 gross acres)	7.6	10.9	12.9
Net to Valence (18,959 net acres)	5.2	7.4	8.5
Net to GGE (earning 85% of Valence)	4.4	6.3	7.2
Red Project Total	7.9	20.8	57.6

**Table 2 – September 2021 Maiden Helium Prospective resource<sup>2</sup>**

The estimated quantities of helium that may potentially be recovered by the application of a future development project relate to undiscovered accumulations. These estimates have both an associated risk of discovery and a risk of development. Further exploration appraisal is required to determine the existence of a significant quantity of potentially moveable helium.

The drill locations were defined and optimised in conjunction with our technical and joint venture partner Four Corners Helium LLC, for more info visit: <https://www.fourcornersheliumllc.com/>

*This ASX announcement has been authorised for release by the Board of Grand Gulf Energy Ltd.*

**For more information about Grand Gulf Energy and its projects, contact:**

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**About Grand Gulf Energy:**

Grand Gulf Energy Ltd (ASX:GGE) is an independent exploration and production company, headquartered in Australia, with operations and exploration in North America. The Red Helium project represents a strategic pivot to a pureplay helium exploration project, located in Paradox Basin, Utah, in the prolific Four Corners region. For further information please visit the Company's website at [www.grandgulfenergy.com](http://www.grandgulfenergy.com)

**Competent Person's Statement:**

The information in this report is based on information compiled or reviewed by Mr Keith Martens, Technical Director of Grand Gulf. Mr Martens is a qualified oil and gas geologist/geophysicist with over 45 years of Australian, North American, and other international executive oil and gas experience in both onshore and offshore environments. He has extensive experience of oil and gas exploration, appraisal, strategy development and reserve/resource estimation. Mr Martens has a BSc. (Dual Major) in geology and geophysics from The University of British Columbia, Vancouver, Canada.

**Forward Looking Statements:**

This release may contain forward-looking statements. These statements relate to the Company's expectations, beliefs, intentions or strategies regarding the future. These statements can be identified by the use of words like "anticipate", "believe", "intend", "estimate", "expect", "may", "plan", "project", "will", "should", "seek" and similar words or expressions containing same. These forward-looking statements reflect the Company's views and assumptions with respect to future events as of the date of this release and are subject to a variety of unpredictable risks, uncertainties, and other unknowns. Actual and future results and trends could differ materially from those set forth in such statements due to various factors, many of which are beyond our ability to control or predict. These include, but are not limited to, risks or uncertainties associated with the discovery and development of oil, natural gas and helium reserves, cash flows and liquidity, business and financial strategy, budget, projections and operating results, oil and natural gas prices, amount, nature and timing of capital expenditures, including future development costs, availability and terms of capital and general economic and business conditions. Given these uncertainties, no one should place undue reliance on any forward-looking statements attributable to GGE, or any of its affiliates or persons acting on its behalf. Although every effort has been made to ensure this release sets forth a fair and accurate view, we do not undertake any obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

<sup>2</sup> Maiden Prospective Resource, based on Sproule Report, as announced on ASX on 8 December 2021. The Company is not aware of any new information or data that materially affects the information included in the referenced ASX announcement and confirms that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed.