

Corporate Disclaimer



This presentation does not constitute investment advice. Neither this presentation nor the information contained in it constitutes an offer, invitation, solicitation or recommendation in relation to the purchase or sale of shares in Grand Gulf (the "Company") - in any jurisdiction.

Shareholders should not rely on this presentation. This presentation does not take into account any person's particular investment objectives, financial resources or other relevant circumstances and the opinions and recommendations in this presentation are not intended to represent recommendations of particular investments to particular persons. All securities transactions involve risks, which include (among others) the risk of adverse or unanticipated market, financial or political developments.

The information set out in this presentation does not purport to be all inclusive or to contain all the information which its recipients may require in order to make an informed assessment of the Company. You should conduct your own investigations and perform your own analysis in order to satisfy yourself as to the accuracy and completeness of the information, statements and opinions contained in this presentation.

To the fullest extent permitted by law, the Company does not make any representation or warranty, express or implied, as to the accuracy or completeness of any information, statements, opinions, estimates, forecasts or other representations contained in this presentation. No responsibility for any errors or omissions from this presentation arising out of the negligence or otherwise is accepted.

This presentation may include forward looking statements. Forward looking statements are only predictions and are subject to risks, uncertainties and assumptions which are outside the control of the Company. These risks, uncertainties and assumptions include commodity prices, currency fluctuations, economic and financial market conditions in various countries and regions, environmental risks and legislative, fiscal or regulatory developments, political risks, project delay or advancement, approvals and cost estimates.

Actual values, results or events may be materially different to those expressed or implied in this presentation. Any forward looking statements in this presentation speak only at the date of issue of this presentation. Subject to any continuing obligations under applicable law and the ASX Listing Rules, the Company does not undertake any obligation to update or revise any information or any of the forward looking statements in this presentation or any changes in events, conditions or circumstances on which any such forward looking statement is based.

Competent Person's Statement

The information in this report is based on information compiled or reviewed by Mr Keith Martens, consulting geologist/geophysicist to Kessel Resources. 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.

Red Helium Project



Strategic Pivot to Pure-play Helium Exploration Project

Prolific Location



- Helium-Prolific Four Corners area
- Drill Friendly Utah
- 250,713 acre AMI, > 29,000 gross leased
- Proximal to dedicated infrastructure
 - 20 miles to 2 of 8 US helium plants
- Pipeline connected to Lisbon helium plant
 - Mar '22 Helium Offtake Agreement
 - Helium Price ~\$605/mcf
 - Mar '22 Strategic Alliance

De-Risked Geology

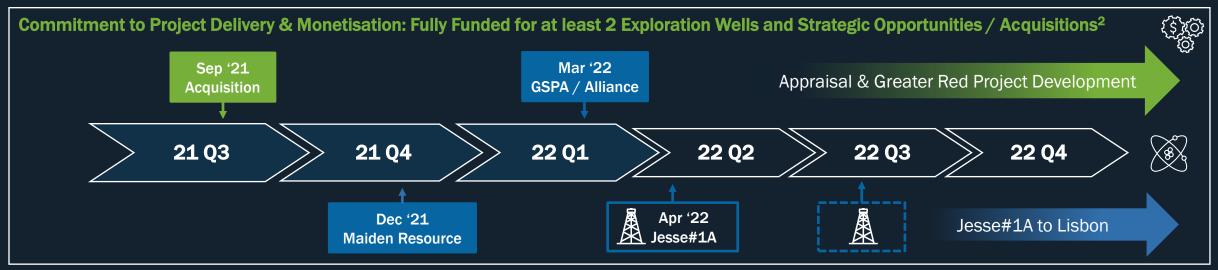


- Known Geology, 315km quality 2D seismic
- Vintage wells within AMI proved:
 - Trap, Seal, Reservoir Presence, Gas Charge, Helium system within AMI
- 4 independent prospects with 2 drill ready locations and deeper under-explored potential
- Jesse#1A Key Objectives:
 - Helium Presence / Concentration
 - Reservoir Effectiveness / Flowrates

Large Resource



- Red Structural Closure
 - 4 5 times Doe Canyon
- Doe Canyon Analog, 15 miles to East
 - 3 5 bcf anticipated helium production
 - High rate gas wells: Avg. IP ~20mmcfd
 - Average helium grade ~0.4 0.5% with upside
 - = high helium flow rates
- Dec'21 Maiden Helium Prospective Resource
 - Gross P50 unrisked 10.9bcf¹



¹ ASX announcement 8 December 2021, Maiden Prospective Resource, based on Sproule Report, detailed in Slide 4.2 ASX announcement 20 April 2022, \$11m placement, before costs

Corporate Snapshot



Max Cost \$US

\$1.5M

\$1.5M

\$1.5M

\$4.5M

P10 (3U)

12.9

8.5 7.2

57.6

US-Focused Helium Explorer with positive Energy production cashflow

Financial Information

ASX Trading Symbol	GGE
Total Shares	1,546 million
Market Cap @ 4.7c	A\$72.7 million*
Net Cash @ 31 Dec 2021	A\$3.0 million
Performance Shares/Rights	165 million**
Options (3 years at 2.5 cents each)	60 million
Options (3 years at 7.0 cents each)	10 million**
Options (3 years at 8.0 cents each)	103 million**
* Madest One includes also asset shows	

^{*} Market Cap includes placement shares

De-risked asset base

OTCQB Listing: North American (NA) Visibility

OTC enhance visibility / accessibility of the company to NA shareholders and media partners.

		Ĭ
•••••		
	$\overline{\cdot}$	
15	દે ે ૪૪૪	33 \
15	333 5	ا فرک
\	{(0}	· /
_ \	~~	

Low-cost exploration

Red Project Total

Current Interest

Drilling first well by Oct '22

Drilling third well by Oct '23

Total Payments Remaining

Recoverable Helium (bcf)²

Gross to Valence (28,046 gross acres)

Net to Valence (18.959 net acres)

Net to GGE (earning 85% of Valence)

Drilling second well by Oct '23

Multiple Drill Ready Targets: Future wells ~US\$3.3m

significant quantity of potentially moveable helium.

Red Helium: Earning 85% of Valence¹



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

Earning

55%

15%

7.5%

7.5%

85%

P90 (1U)

7.6

5.2

4.4

7.9

Carbon market exposure

45Q Tax Credit upside through ${\rm CO_2}$ sequestration potential

P50 (2U)

10.9

7.4

6.3

20.8



Robust netbacks

Low breakeven and low production costs with high torque to commodity prices

Assets have existing wells with Helium

present and extensive 2D seismic



Skilled executive team

Management brings track record of North American asset development



Access to capital

ASX/OTCQB listing expands investor base, provides exposure to international capital

^{**} Options and 30 million performance rights subject to SH approval

¹ Well cost overrun shared at earned WI split.

² ASX announcement 8 December 2021, Maiden Prospective Resource, based on Sproule Report. 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.

Helium: Critical Path Irreplaceable Technological Enabler



Major growth predicted in most usage areas, particularly: Space, Medical, Semiconductor and Fibre Optics



Inert

Doesn't react with other elements and non-flammable unlike hydrogen



Non-toxic

Can be used in many applications without posing health or wellness risks



Lighter than air

Ability to lift or float. Atmospheric molecules escape to space



Boiling point -269°C

Liquid at ultra cool temperatures enables superconductivity



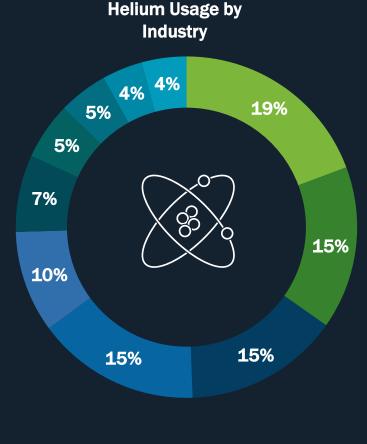
High Thermal Conductivity

Removes heat in space applications and electronics manufacturing



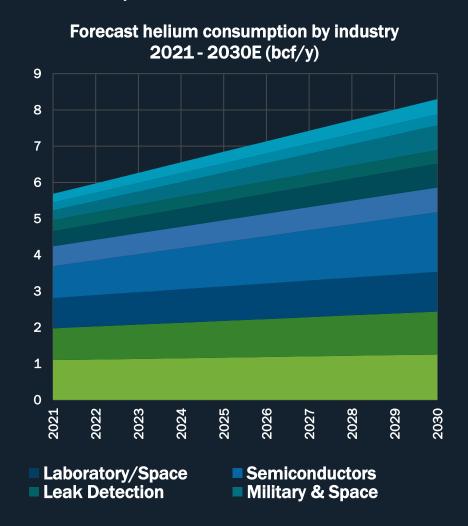
Small molecular size

Can be used to find the smallest of leaks









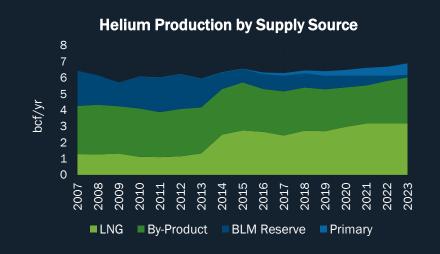
Source: H&P Equity Research / Akap Energy estimates Feb 2022

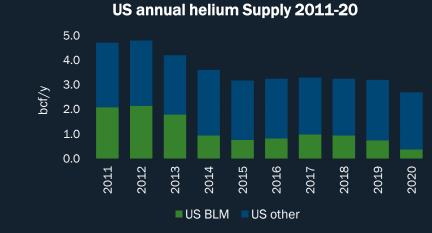
Helium Supply and Demand Factors



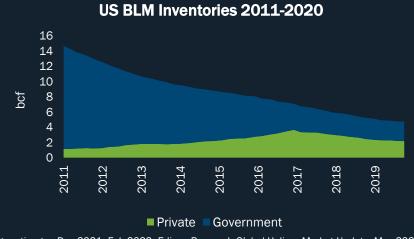
Key Observations

- Historic Supply predominantly oil and gas / LNG by-product, and BLM reserve.
- Recently increasing helium supply from primary projects.
- · China:
 - most important growth market
 - imports close to 1bcf/yr
 - virtually no domestic supply
- Helium Stewardship Act of 2013 is part of a privatization effort that began back in 1996 and culminated in the BLM divesting itself of helium storage and facilities in 2021, with supplies currently being depleted.









Source: H&P Equity Research / Akap Energy estimates Dec 2021, Feb 2022, Edison Research Global Helium Market Update, May 2021.

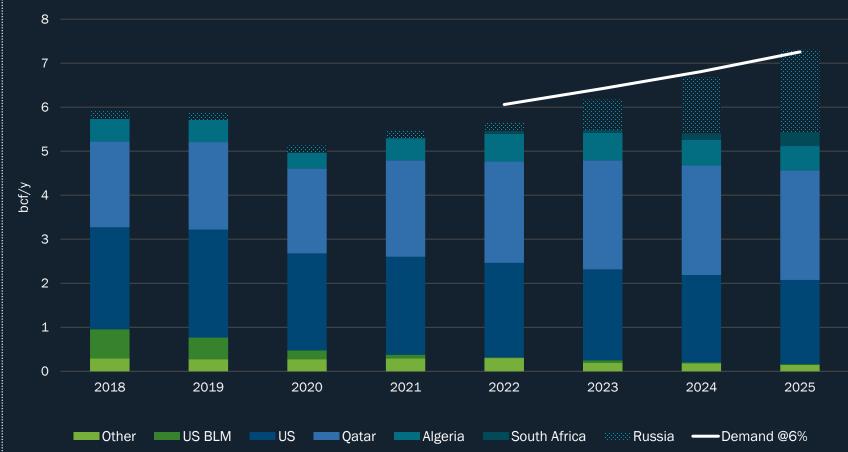
Helium Supply Demand Balance



Helium Supply Shortage: extending into 2023

- Devastating fire at Amur facility impacts 10-20% of potential global helium capacity into 2023, exacerbated by increasing geopolitical tensions.
- The Russian shaded area includes the Amur contribution ramping up to ~1.4bcf/yr by 2025, now significantly delayed.
- 2022 maintenance shutdown US BLM Cliffside facility from January impacting up to ~20% of US supply (5 - 10% of global supply).
- Helium supply chain is complex, opaque and the above issues coupled with other supply side pressures have led to an extended supply demand deficit expected to reach into 2023
- After numerous previous supply side shortages, current situation dubbed:
 - Helium Shortage v4.0





Source: H&P Equity Research / Akap Energy estimates Feb 2022 https://www.gasworld.com/helium-markets-now-experiencing-helium-shortage-40/2022650.article

Helium Pricing

GRANDGULF

US\$/mcf

- Helium pricing is localised, complex, and opaque, however sustained supply demand deficit has led to sustained wholesale prices exceeding US\$300/mcf since 2020. FY19 BLM average auction price was US\$280/mcf.
- Recent supply side pressures have further exacerbated the situation.
- US swing exporter to China since 2019 with break-out pricing an indicator of increasing spot market price pressures
- Paradox Resources recently received \$605/mcf¹ for 99.989% purified gaseous helium.
- Highly purified >5.5 nines
 (>99.9995%) liquid helium can
 attract premium price multiples.
 Recent US spot market prices have
 reached over \$1000/mcf².



Source: H&P Equity Research / Akap Energy estimates Dec 2020, Feb 2022. Source: Edison Research Global Helium Market Update, May 2021

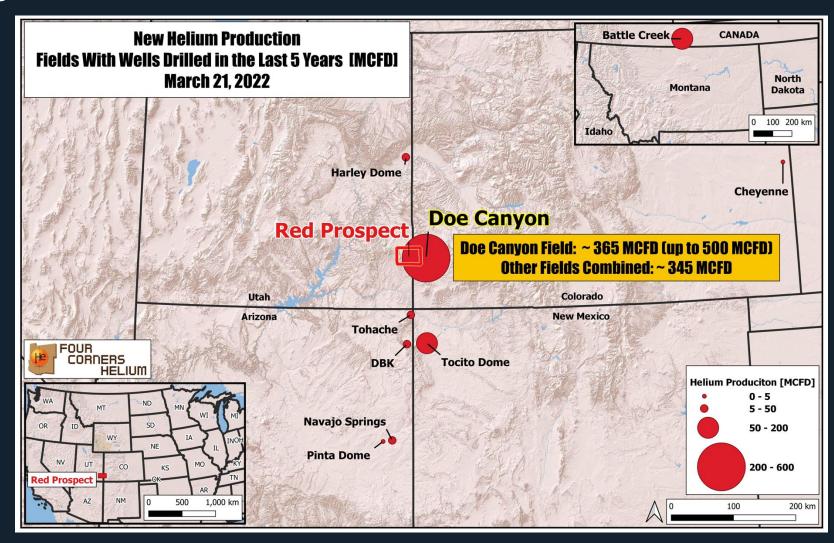
¹ ASX announcement 16 Mar 2022 ² ASX announcement 11 Apr 2022

Four Corners Area: New Helium Production



Prolific Proven Producing Helium Region

- Wholesale global helium industry is a multi-billion dollar market¹
- Approximate annual global helium market:
 - ~6 bcf/yr¹
 - ~16,500 mcf/d
- Red Helium Project
 - Large Prospective Resource
 - Gross P50 unrisked 10.9 bcf
- Up to ~50% of new North
 American production is from the
 Doe Canyon Field.²
 - (within last 5 years)



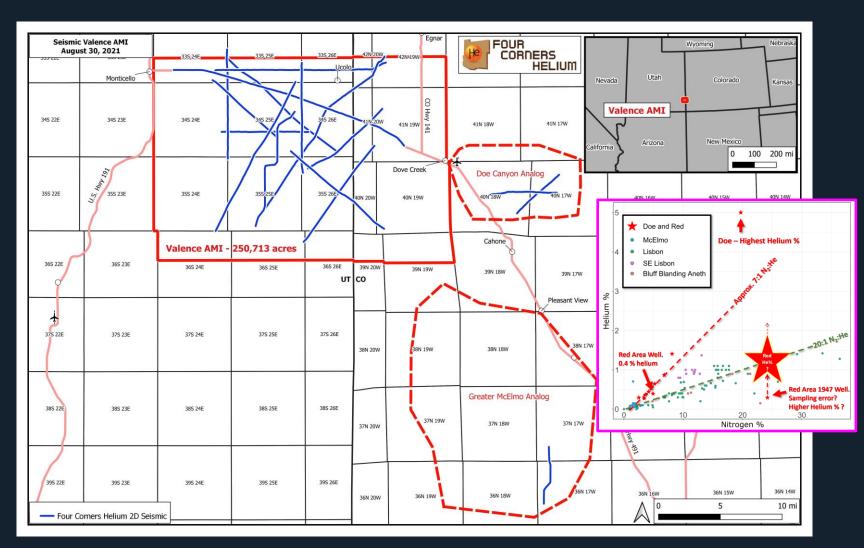
Source: 1 Edison Research Global Helium Market Update, May 2021, 2 Four Corners Helium LLC Internal Estimate

Red Helium Project - High Quality Dataset



High Quality 2D Seismic Coverage and Well Control

- Dominant lease position
- >29,000 acres (private leases/Utah state leases) leased in drill-friendly Utah
- Lease holdings focused on prime prospective locations
- 315 km's of high quality seismic data acquired and reprocessed
- Excellent data, particularly below the salt seal
- Geologic analogs with historic He concentrations
- Analog Doe Canyon and McElmo Fields
 same reservoir/same trap/same
 source rock

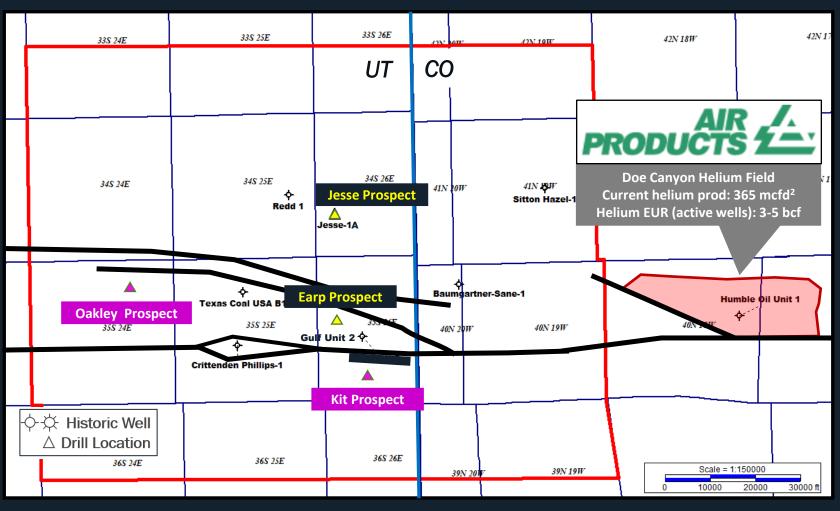


Multiple Independent Prospects

GRANDGULF

De-risks greater Red Helium Project¹

- Three drill locations on mature prospects independent to the Jesse prospect identified.
- Earp location drill ready with permitting advanced.
- Prospects are considered independent due to structure associated with well-defined and favorably-timed strike-slip faulting.
- 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



¹ ASX announcement 4 Apr 2022 https://cdn-api.markitdigital.com/apiman-gateway/ASX/asx-research/1.0/file/2924-02506327-6A1085020?access_token=83ff96335c2d45a094df02a206a39ff4

² Four Corners Helium LLC Internal Estimate

De-Risked Geology, Huge Resource



Jesse#1A spudding late April 1

Vintage wells within AMI proved:2

- Trap / Seal
- Reservoir Presence
- Gas Charge
- Helium system within AMI

Jesse#1A Key Objectives:

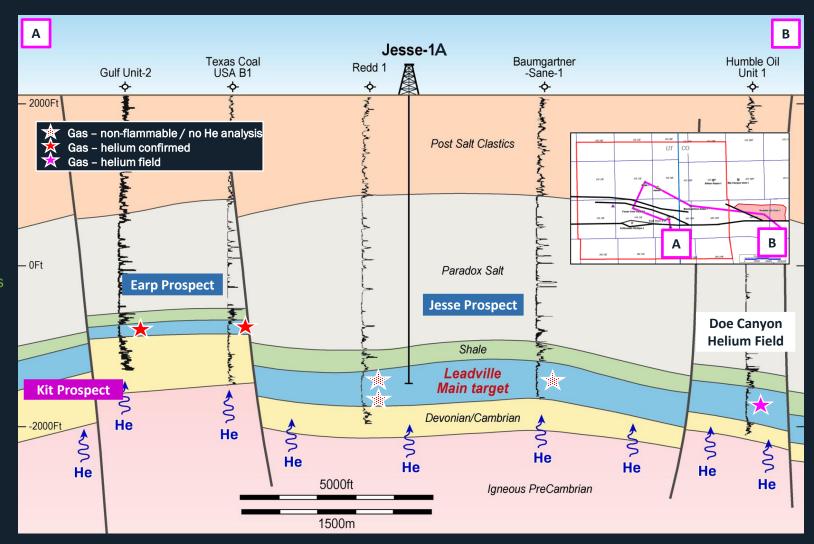
- Leadville formation Dolomite
- Helium Presence / Concentration
- Reservoir Effectiveness / Flowrate
- Optimised Well Design ¹
 - Increased tubing size up to 4.5" = higher flowrates

Large Helium Prospective Resource:

- Red Helium Project
- Gross P50 unrisked 10.9bcf

Running Room:

- Jesse#1A one of four independent mature prospects
- Earp#1 drill ready, permitting advanced
- Deeper under-explored Devonian McCracken Sandstone formation
- Numerous leads



¹ ASX announcement 20 Apr 2022 https://cdn-api.markitdigital.com/apiman-gateway/ASX/asx-research/1.0/file/2924-02511675-6A1087281?access_token=83ff96335c2d45a094df02a206a39ff4

² ASX announcement 5 Apr 2022 https://cdn-api.markitdigital.com/apiman-gateway/ASX/asx-research/1.0/file/2924-02506793-6A1085193?access_token=83ff96335c2d45a094df02a206a39ff4

Helium Offtake Agreement Secured



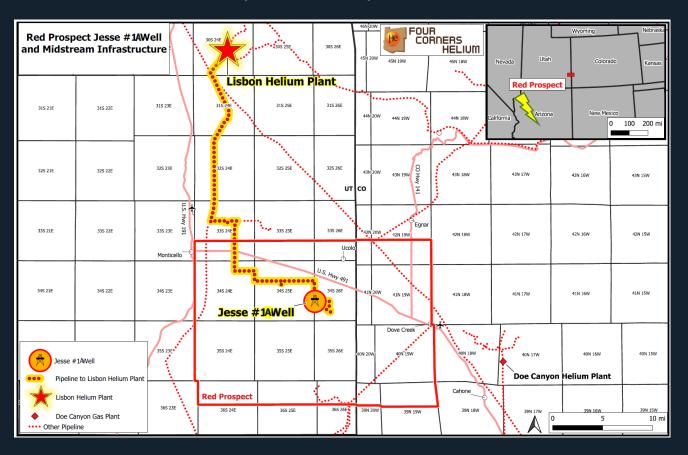
Gas Sales & Processing Agreement (GSPA) executed with Paradox Resources LLC (March 2022)1

GSPA: Jesse#1A to Lisbon in success case

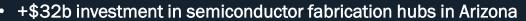
- · Validates technical merit of Greater Red Helium project.
- Agrees such industry standard commercial terms such as 80/20 revenue split, gas gathering / treatment tariffs
- Pathway to monetization and FCF with minimal time delay / CapEx for Jesse#1A success case
- Initiates relationship with a proven helium refiner and seller with deep helium processing and marketing experience, and basis for exploring further synergies and strategic corporate opportunities.
- Jesse#1A immediately adjacent to unutilised pipeline which connects directly to the Lisbon plant

Lisbon Valley Gas Plant

- 60mmsfd treating plant, 45mmcfd cryogenic plant
 - 0.6mmcfd liquefaction high purity 99.9995% helium
 - 0.5mmcfd 99.989% gaseous helium
 - recently pricing \$605/mcf.
- Currently sequestering carbon dioxide and well advanced in the permitting process to qualify for carbon capture tax credits under Section 45Q of the US tax code







¹ ASX announcement 16 Mar 2022 https://cdn-api.markitdigital.com/apiman-gateway/ASX/asx-research/1.0/file/2924-02499691-6A1082068?access_token=83ff96335c2d45a094df02a206a39ff4

Strategic Alliance with Helium Offtake Partner



Exploit Significant Synergies Between Red Helium project and Paradox Resources Assets

Pursue several advanced opportunities to optimize and prioritize near-term exposure to the burgeoning helium market with potential mutually commercially advantageous revenue sharing agreements

Paradox liquefier:

- Potential priority supplier to re-start the Paradox liquefier
- Current helium production gaseous purified 99.989%
- Liquefaction high purity 99.995% helium
- Attracts premium pricing, US spot recently over US\$1,000/mcf
- Expansion of Jesse#1A to Lisbon offtake agreement

Collaborative downstream marketing

 Targeting end users of high-purity helium such as semi-conductor manufacturers and the space industry





CO₂ Disposal Options with Revenue Generating Potential:

- Joint investigation of Red Helium Project CO₂ for enhanced oil recovery (flooding) from Paradox's Lisbon Oil Field
- Investigate expansion of carbon sequestration activities at Paradox's Lisbon Plant to include CO₂ from Red Helium Project and application for tax credits (revenue) under Section 45Q of the US Tax Code

Corporate opportunities:

Potential synergistic commercial benefits in assessing corporate opportunities
that involve both Paradox assets and the Red Helium Project and have agreed to
jointly pursue such opportunities.

ASX announcement 11 Apr 2022 https://cdn-api.markitdigital.com/apiman-gateway/ASX/asx-research/1.0/file/2924-02509232-6A1086215?access_token=83ff96335c2d45a094df02a206a39ff4

Strong Management & Board





Dane Lance Managing Director

- >18 years' experience across E&P Lifecycle, Reservoir Engineer, including many major/mega development projects with significant exploration and MA&D
- · Woodside Energy, Oil Search, Ophir



Keith Martens
Technical Director

- >40 years' experience as an oil finder
- North America Hudson Bay, Home Oil, Marathon, and Sacgasco
- Australia SANTOS, Tap Oil, Bow Energy, Victoria Petroleum/Senex
- International Jupiter (Kazakhstan)



Lloyd Flint CFO / Company Secretary

- >25 years' experience in the corporate and financial services arena.
- Chartered Accountant, BAcc, FINSIA and MBA
- Numerous management / senior administrative positions, and corporate advisory services as a consultant to corporate clients



Craig Burton Chairman

- Experienced active investor in emerging oil and gas companies
- Provides financial backing and legal advice

Four Corners Helium Team - www.fourcornersheliumllc.com

Leadership

Four Corners Helium is a powerhouse of professionals with over 400 years of combined experience and expertise that are committed to finding and producing helium reservoirs.

Tim Rynott

CEO, Exploration Geologist

- 40 years of oil and gas experience
- Has generated or endorsed discoveries with a gross net worth of almost US\$1Bn
- Has held key leadership positions on numerous national and regional Boards, including AAPG, GCAGS, and LOGA.

David McCarver

COO, Contracts/Land

- >46 years experience in oil and gas
- Ex State and Federal basins in Texas and Louisiana Gulf Coast, Ark-La-Tex, Mid-Continent, Permian, Rockies and the Gulf of Mexico
- Leased and directed the leasing of >200 drilling prospects, managed E&P programs, created joint ventures, raised capital from direct investors and promoted industry partners.

Eric Cummins

Vice President, Exploration and Production

- 30yrs experience in exploration and as production geologist
- Ex Geological Manager for Apache instrumental in reaching goal of 150,000 BOPD in the Permian.

Sabina Kraushaar

Partner, Petrophysicist, Structural Geologist

- Geoscientist with expertise mapping subsurface geology utilizing Petra software.
- Manages a database with >100,000 wells, 17,000 geologic tops and >10,000 digital logs.

Doug Frederick

Drilling Manager

- Over 40 years of experience in drilling and well operations.
- Directed the drilling and workover of over 2500 wells.
- Responsible for annual drilling and workover budgets of over \$500M.
- Drilled in 7 different States

Jake Cammack

Partner, Geochemist, Specialist in Geographic Information Systems (GIS)

 Created a database with >17,000 gas-composition and helium analyses - comprises the most complete gas geochemistry dataset ever assembled for Utah, Colorado, New Mexico and Arizona.



Contact Us

Email

info@grandgulfenergy.com

Phone

+61 8 9226 2209

Address

Grand Gulf Energy Limited Suite 4, 246-250 Railway Parade West Leederville, WA 6007

Fax

+61 8 9226 2210



Glossary



Abbreviation	Description
He	helium
US BLM	US Bureau of Land Management
UDGOM	Utah Division of Gas Oil and Mining
SITLA	Utah School and Institutional Trust Lands Administration
U	Prospective Resources - 1U/2U/3U - P90/P50/P10 - low/most likely/high
cf	Cubic Foot of Gas
scf	Standard Cubic Foot of Gas
b	Prefix - Billions
mm, M	Prefix - Millions
m	Prefix - Thousands
/d, d	Suffix – per day
tCO ₂	Tonnes of Carbon Dioxide
YE	Year End 31 December
WI	Working Interest
NRI	Net Revenue Interest (after royalty)
Net	Working Interest after Deduction of Royalty Interests
NPV (10)	Net Present Value (discount rate), before income tax
EUR	Estimated Ultimate Recovery per well
Net Acres	Working Interest Acres