



GLOBAL HELIUM

CSE: HECO | OTC: HECOF
NOVEMBER 2023

HELIUM DEVELOPMENT DONE RIGHT

Applying oil and gas technical expertise to realize efficient and effective development of helium

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The Global Helium (HECO) Opportunity



Helium Development Done Right

- ✓ **Advanced-stage helium development company** with ~1.85MM acres of land across Alberta, Saskatchewan and Montana
- ✓ **Strong leadership and board** with >20 years of oil and gas technical development experience and enhanced governance
- ✓ **Multiple geographic areas** with high-concentration helium shows from existing wells diversifies opportunity and risk
- ✓ **Numerous near-term catalysts** supported by successful discovery in SE Alberta sets the stage for material growth
- ✓ **Insider ownership** aligned with shareholders, sharp focus on cost controls and disciplined capital allocation



Farm-in agreement with established natural gas producer, Perpetual Energy (TSX: PMT), on land in SE Alberta (Medicine Hat)

- 2 wells drilled on PMT land adjacent to existing helium discovery and a peer's newly constructed helium plant
- 1st well drilled Sept/23, 2nd well drilled Nov/23; both cased for completion and testing
- Access to PMT's seismic and regional data helps reduce risk, with added confidence from area activity
- Additional development opportunities across ~369,000-acre AMI with PMT



Catalysts on the Path to Helium Production



HECO's team and strategy aiming to set a new standard for successful helium development

Q2/22

- Strategic investor & new board member addition
- Acquisition of 3 helium assets in Montana

1H/23

- Perpetual Energy agreement to drill 2 wells & further explore Manyberries, a proven helium producing region in SE AB

1H/24

- Begin production facility planning for Manyberries
- Data acquisition and step-out exploration on Manyberries asset

Q1/22

- Saskatchewan seismic program commences
- Saskatchewan land increased to 1.5MM acres

2H/22

- Journey Engineering engaged to advance Montana helium processing facility

2H/23

- Drilled & cased 2 wells at Manyberries; testing underway
- Ongoing management evolution & financing to fund drilling program

2H/24

- Commission helium production facility at Manyberries
- Exploration tests in Saskatchewan & Montana

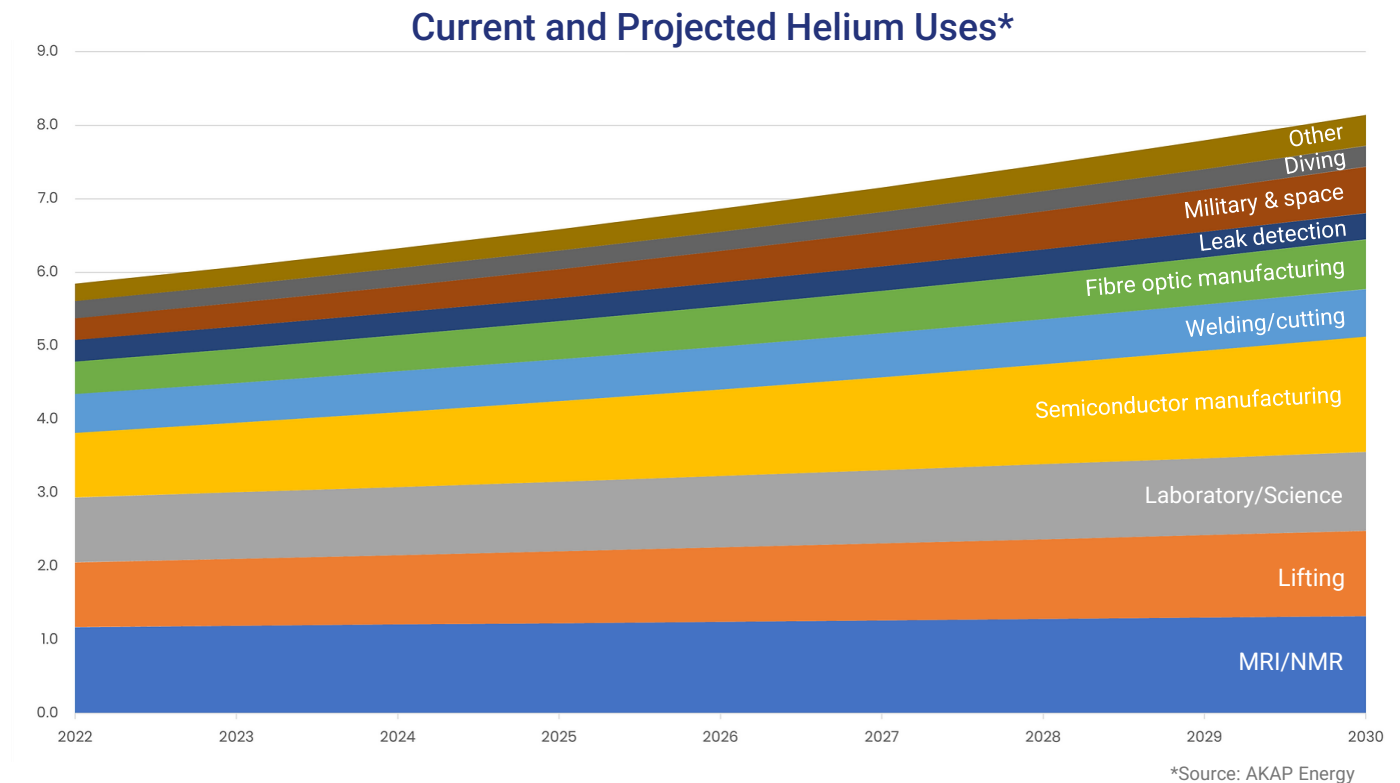


Helium is a Critical Element



Used for specific scientific and technological applications, including healthcare, cryogenics, semiconductor manufacturing, military, space exploration and Artificial Intelligence

- Helium is an irreplaceable input for many important technologies
- Proper conservation, management and continued development is vital to ensure ongoing availability of helium for essential applications
- Significant demand growth experienced by manufacturers of semiconductors used in computers, cars, mobile phones and smart devices
- Space exploration requires helium as NASA and other companies use it to keep hot gases and ultra-cold liquid fuel separated during rocket lift-off
- High-performance data centers and supercomputers that form the backbone of AI development and deployment generate substantial heat - helium's low boiling point makes it an excellent coolant



Helium Market Dynamics



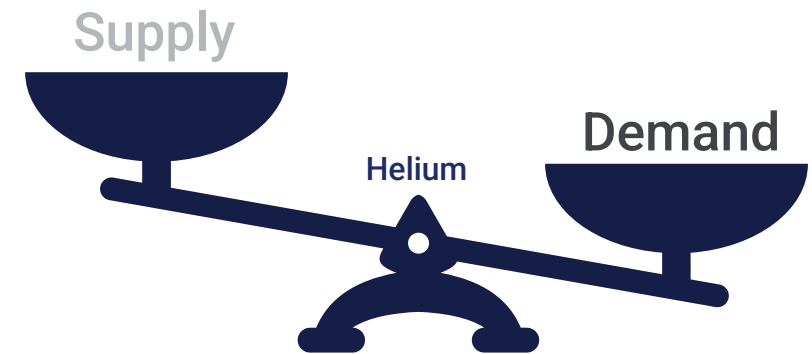
Helium has few substitutes, and in many cases, there are no alternatives

- Helium cannot be economically manufactured today
- Supply is scarce and unreliable as the US divests the world's only strategic helium stockpile; global supply is concentrated in politically unstable and geographically disparate regions which makes transportation time-consuming and expensive
- Users of helium are relatively price insensitive and will pay a premium for stability of supply
- Demand is accelerating from high-growth sectors: medical imaging, semi-conductor manufacturing, fiber-optics, military and space exploration
- Market is opaque but recent public announcements show strength in helium pricing

US\$625/mcf

Helium price under recent offtake agreement for Canadian peer, net of transportation & liquefaction costs¹

Helium demand **OUTWEIGHS** supply



¹ May 26, 2023 Royal Helium [News Release](#).



A Growing Need for Helium



PHYSICS TODAY

A recent survey conducted by the Canadian Helium Users Group found that 72% of NMR spectroscopy facilities had difficulty procuring liquid helium within the last nine months, with price increases ranging from 25% to 400%. (Sept 2023)

The Harvard Crimson

Helium Shortage Forces Harvard Physics Labs to Shut Down Equipment, Suspend Projects. (June 2022)

FORTUNE BUSINESS INSIGHTS

The global magnetic resonance imaging equipment market size is projected to grow from US\$7.5B in 2023 to US\$11.5B by 2030, at a CAGR of 6.3%. (July 2023)

S I A

Helium is a critical input to the semiconductor manufacturing process...the global semiconductor market is expected to grow at a 6.7% CAGR through 2030, and the helium supply will need to grow accordingly. (March 2023)

McKinsey&Company

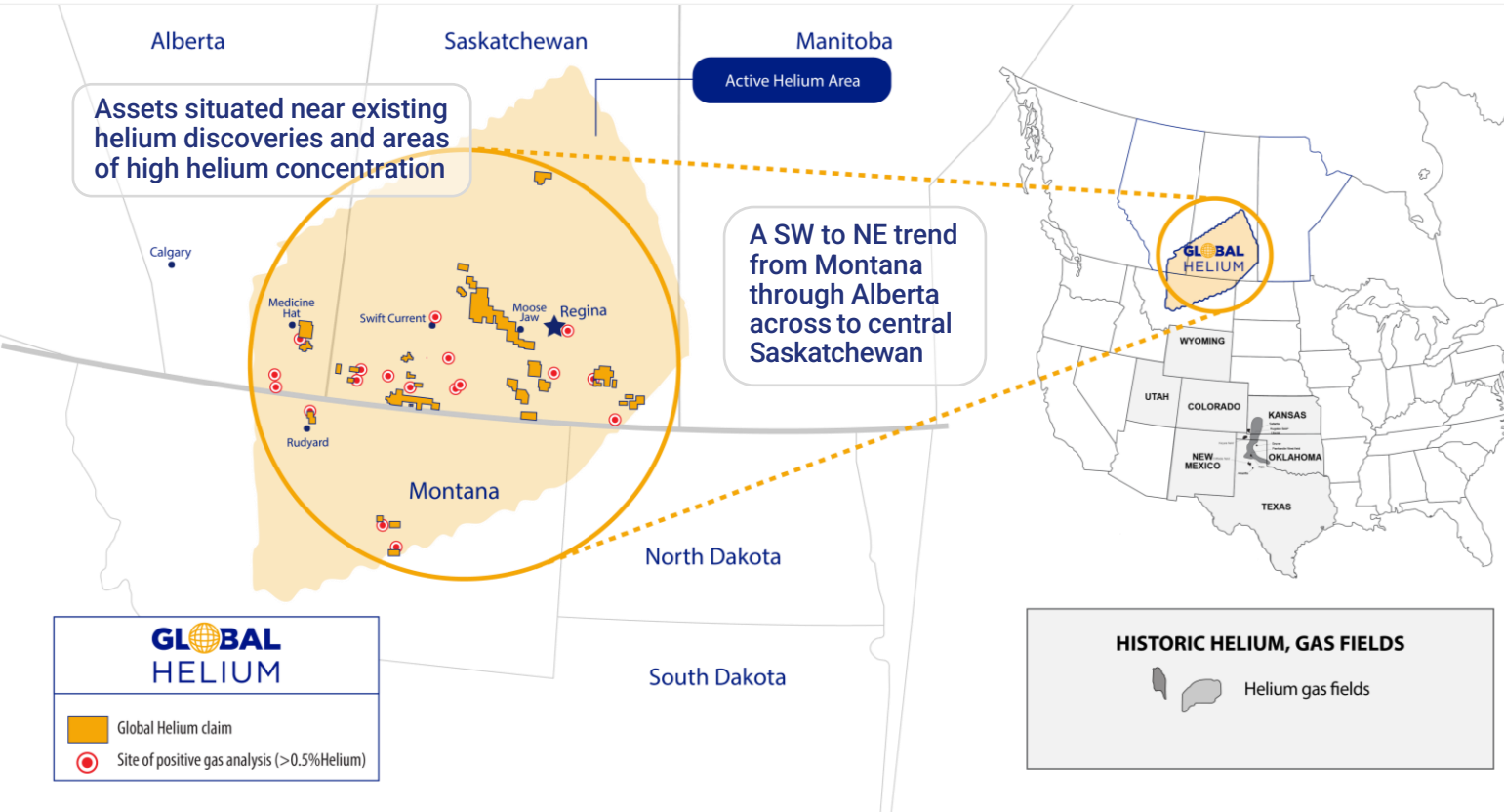
The long-term annual value potential of artificial intelligence within the semiconductor industry is about US\$90B. (August 2023)



Enter Global Helium (HECO)



The best place to find helium is where it's already been found



- Partnership with Perpetual adds further credibility, provides access to additional land and offers expanded exploration upside
- Data on historic helium drilling, production, seismic lines, core logs, and gas analyses is plentiful and reliably available in Canada, allowing HECO to select target-rich areas with lower risk
- Helium drilling is nearly identical to natural gas drilling so HECO can leverage existing drilling expertise and a skilled workforce
- Favorable lease terms and royalties with supportive governments
- Existing infrastructure, production facilities and roads reduces costs and streamlines development process



Operations Overview



First well spud in Alberta in Sept/23; second spud in Nov/23

SE ALBERTA - Manyberries

*Strategic partnership with
Perpetual Energy Inc. (TSX: PMT)*

- **Manyberries trend** - contains multiple helium discoveries with concentrations ranging from 1.2% - 1.5%
- **Drilled 2 wells** on trend and near Medicine Hat, AB in 2H/23 under PMT agreement
- Peer recently commissioned new-build helium plant directly offsetting HECO's targeted drill locations
- Completion of drilling leads HECO to earn 75%, 25% retained by PMT, with additional lands identified in the area offering further exploration potential

Drilling at Manyberries targeting resource conversion and proof of concept for area productivity

SASKATCHEWAN

*~1.8MM acres of land in the heart of a
known helium fairway*

- **Vermilion Hills** - Very large helium structures and several wellbores near HECO controlled land
- HECO is 3rd largest landholder in SK, with assets adjacent to production, reserves and significant development activity
- Seismic interpretation underway on a 1944 well drilled by Imperial Oil to target a potential location on structure for exploration drilling in 2024
- Commercial production growing in SK as industry peer currently producing ~350mcf/d and bringing more wells on stream

HECO is third largest helium rights landholder in Saskatchewan offering significant running room

MONTANA

*>25,000 acres of leased land covering
proven helium properties*

- **Rudyard** - existing discovery well ready to equip & produce with engineering study for processing facility underway.
- **Pale Rider / Musselshell** - Proven helium production by Texaco & existing area infrastructure supports new drilling; location identified with drilling preparation underway
- **Petroleum County** - previous exploration test yielded gas analysis showing 3.9% helium content
- Significant helium discovery at Greater Knappen in Montana by another operator features high helium concentrations

All 3 of HECO's Montana properties have existing wells with successful helium production tests

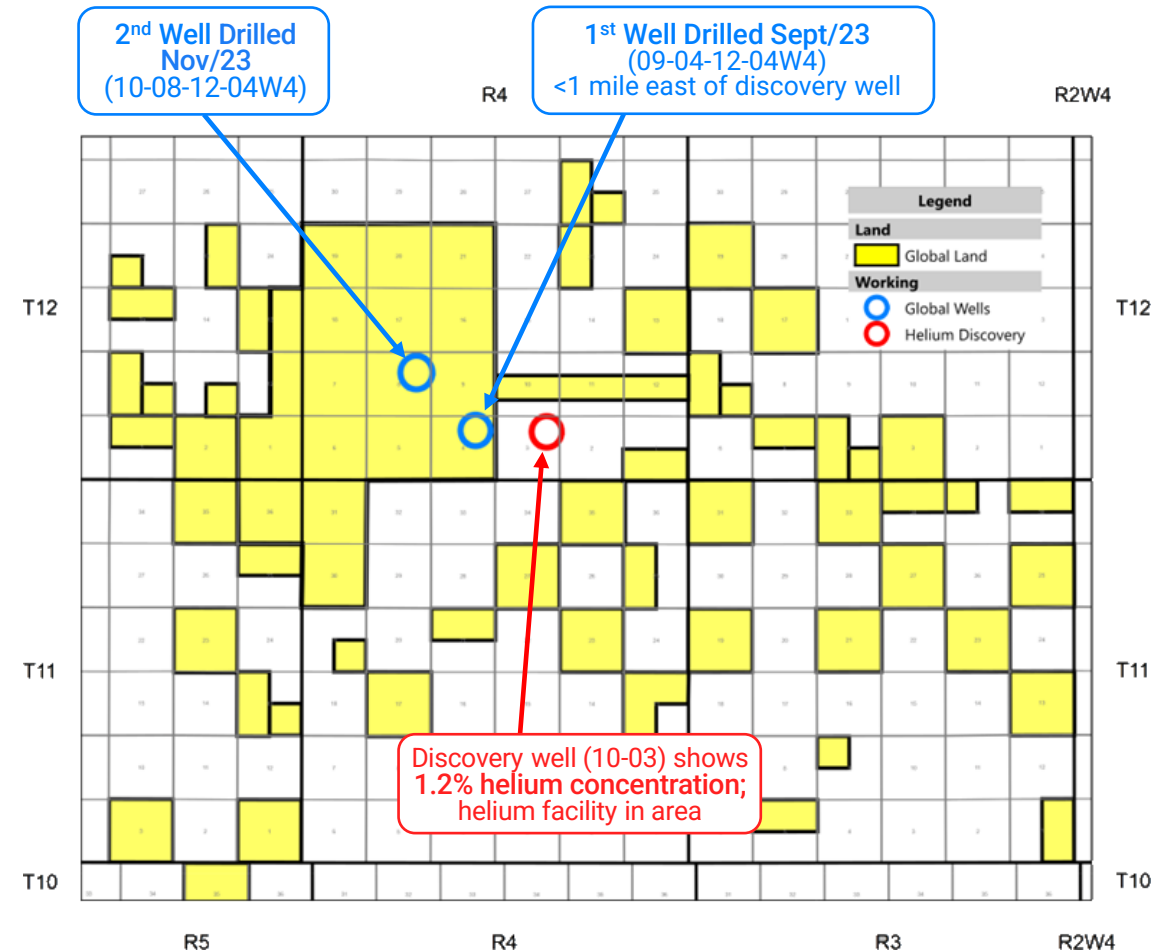


SE Alberta Manyberries: Many Advantages



HECO has a meaningful footprint within this well-known helium producing region

- Manyberries is a very attractive helium development area with an existing well having proven helium rates at concentrations of 1.2%
- HECO's SE Alberta land surrounds the discovery well and geologic mapping of subsurface trends indicates the potential for vast quantities of helium bearing gas in place
- Several other successful and producing wells are in the area, along with a recently constructed helium processing facility
- Region features favorable geology, low capital exposure drilling, ample infrastructure, a skilled workforce and business-friendly royalty regime



Strategic JV with Perpetual Energy (TSX: PMT)

HECO drilled two helium wells in 2H/23 on Perpetual land situated in the Manyberries helium trend

- Two agreements in place giving HECO access to **~50 sections (32,000 acres)**
- PMT becomes Joint Venture partner once earning is complete on the agreements
- Area of Mutual Interest (AMI) spans 576 sq miles to jointly explore greater Manyberries helium trend (Medicine Hat area) with PMT
- Leveraged technical expertise, including identifying bypassed pay, to select drilling locations, mitigating risk
- Sufficient data expected to be gathered by end of Q4 2023 at Manyberries to begin design of a helium production facility
- Additional land acquisition opportunities exist on trend and are being actively pursued



Drilling rig at HECO's (09-04-12-04W4) location on Sept. 15th spud the first helium well under the PMT Joint Venture

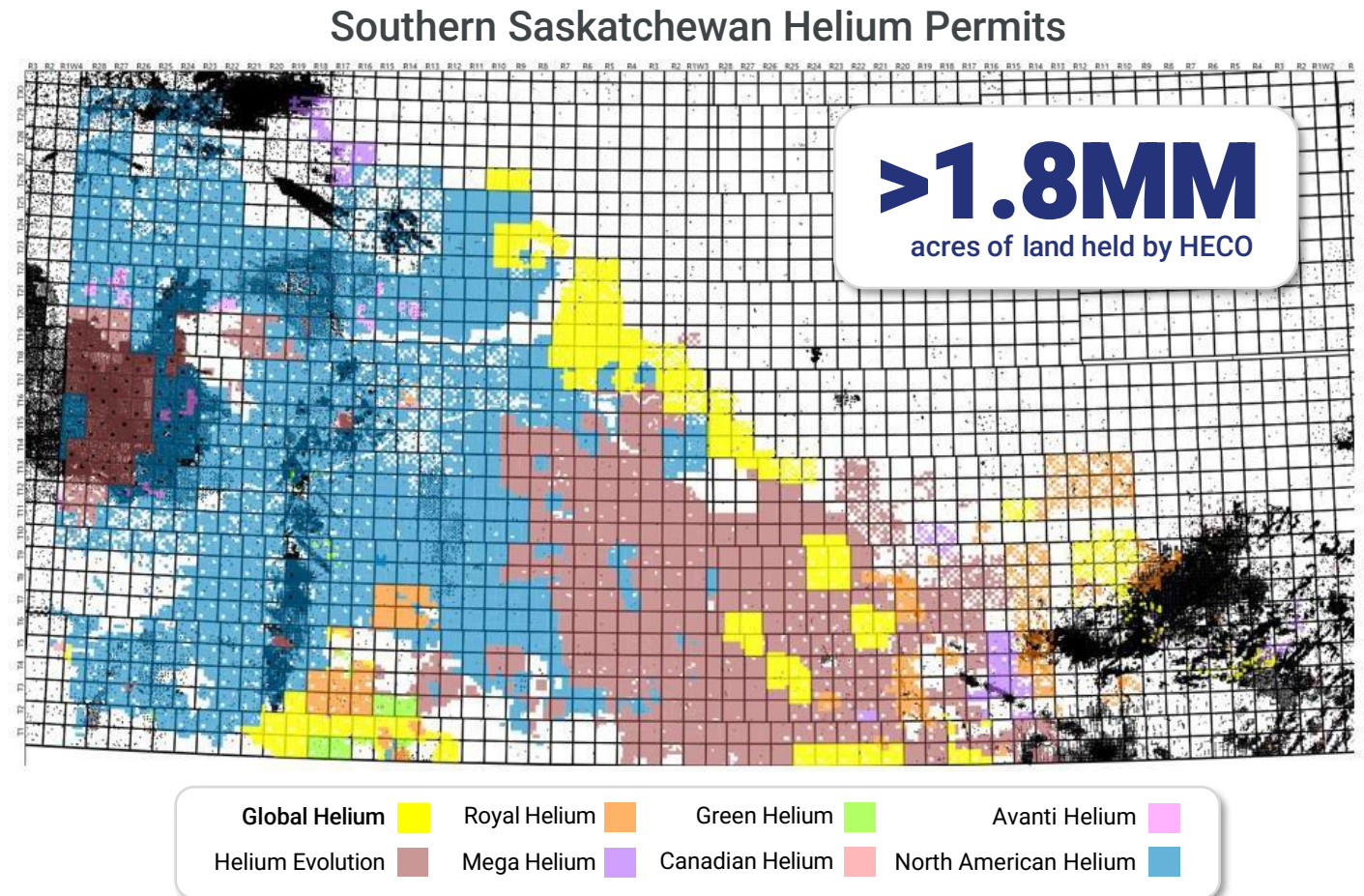


Saskatchewan: Built for the Future



HECO is the 3rd largest landholder in Saskatchewan, concentrated in the heart of the known helium fairway

- **>1.8MM acres of land** held by HECO in SK: a province with significant government support, including Government of Saskatchewan's Helium Action Plan
- Deep exploratory well drilled by Imperial Oil in 1944 indicates prospective helium
- Plans to select location for drilling on this structure once seismic analysis and interpretation are complete
- Given adjacent helium development, HECO aims to leverage data to help mitigate risk and enhance the probability of success



Montana Asset Portfolio



Three diverse areas offer lower risk development potential

RUDYARD

15 sections of held land on structure with potential to expand to 24 sections

- Rudyard #1 discovery well targeted for recompletion to perforate and test bypassed pay zones
 - Offset location to Rudyard #1 could be drilled/completed with tie-in to the helium processing facility
 - Potential to increase management's production and recovery estimates at Rudyard with optimized drilling & completions
- Pre-FEED engineering study underway for a helium processing facility with capacity of 5MMCF/day of raw gas
- With a commissioned facility, **gross helium sales estimated at >65MMCF*** in the first 5 years of production from Rudyard
- With only 2 producing wells, 4-year operating revenues from Rudyard could **exceed \$20MM****

PALE RIDER / MUSSELSHELL

Proven Helium Region Ready for New Drilling

- Texaco well drilled on structure tested over 1.3 mmcf/d of non-combustible gas with 1.2% helium and high percentage of nitrogen
- Offset well confirmed potential reservoir in deeper formations that are expected to be prospective for helium
- Initial drilling location identified, drill preparations are ongoing and HECO can leverage existing area infrastructure in place due to historical oil and gas development

PETROLEUM COUNTY

Newest Montana asset acquired June 2022

- Previous exploration test yielded gas analysis showing 3.9% helium content

*Management's internal estimate

**Assumes Management's internal pricing estimate based on peer disclosures



Prioritizing ESG Principles

Global Helium: Helium Development Done Right



ENVIRONMENT

- Helium development is not a byproduct of hydrocarbon production
- Extensive consultation and environmental impact studies performed prior to drilling
- Responsible stewardship across all facets of operations, both above ground and below



SOCIAL

- Health & safety is a priority with regular review and updating of practices
- Continuous learning & best practices to ensure employees & contractors get home safe each day
- Engaging with local stakeholders and serving as a welcome, positive presence in the community
- We are committed to enhancing team diversity over time, and being an inclusive employer



GOVERNANCE

- Robust governance practices support long-term sustainability, keep projects moving and supports a thriving business
- Management team and Board provide oversight & support to generate shareholder value
- Our motto of helium development done right underpins decision-making and supports a disciplined approach to capital management

Helium:

- non-toxic & non-combustible
- a zero-carbon solution
- has no direct carbon footprint associated with its use
- is not part of environmental politics



Management Team



Experienced team of energy development executives with a commitment to high integrity operations

Jesse Griffith

President, CEO & Director

Mr. Griffith was previously the founder and Vice President of Crestwynd Exploration Ltd., which was recently acquired for more than \$200 million by a major publicly listed company. The majority of Mr. Griffith's career to date has involved starting and growing businesses through M&A, land acquisition, exploration and execution. Mr. Griffith has progressed over 17 years in the oil and gas industry in the capacity of founder, executive management, business development, exploration, operations, land management, legal responsibilities, asset evaluation and corporate evaluation. He has been intimately involved in the early-stage growth and development of several upstream oil and gas companies in Canada and the United States. He has developed a strong working knowledge of the helium industry through his extensive relationships and personal interest in helium.

Duncan MacKenzie, P. Geol

VP, Geosciences

Duncan MacKenzie is a geoscientist with 20+ years' experience with all aspects of finding and commercializing industrial gases primarily in western Canada. Duncan has also worked as a geoscientist on U.S., South American, and West African projects. He is well versed in gas reserve evaluations and is privileged to be part of a network of skilled and experienced geoscientists focusing on environmentally friendly, non-combustible gases. He has been working on rare gas exploration since 2015.

Tom Cross, CA, CFA

CFO

Tom Cross is a chartered professional accountant and a CFA charterholder with 20 years' experience in both upstream and midstream resource sectors and financial services. Mr. Cross has led various finance functions in both private and public company environments including Tundra Oil and Gas and Kingston Midstream. His experience spans all financial aspects of companies he has been involved with, including corporate finance, financial reporting, budgeting and forecasting, cash management and internal controls. After receiving a Bachelor of Commerce degree from the University of Calgary, he began his career in the audit practice of Ernst & Young LLP in 2002 and went on to spend 3 years in KPMG's Transaction Services group in New York before settling back in Canada in 2010.

Kade Holladay, P. Geo

Manager, Exploration & Development

Kade Holladay is a professional Geophysicist with 15+ years of experience in all aspects of seismic and geophysical exploration along with multiple years of well site operations, exploration and development drilling and data analytics. Mr. Holladay has worked across the entire Western Canadian Sedimentary Basin and brings a unique skill set to Global with the experience and ability to both explore and discover new opportunities while seeing them through to the development stages. Mr. Holladay is a key member of the Global team and will be integral to our success as we begin development and exploration operations.



Board of Directors



Strong oversight with high integrity and ethical conduct aligns with shareholders' interests

Jesse Griffith - President, CEO & Director

Mr. Griffith was previously the founder and Vice President of Crestwynd Exploration Ltd., which was recently acquired for more than \$200 million by a major publicly listed company. The majority of Mr. Griffith's career to date has involved starting and growing businesses through M&A, land acquisition, exploration and execution. Mr. Griffith has progressed over 17 years in the oil and gas industry in the capacity of founder, executive management, business development, exploration, operations, land management, legal responsibilities, asset evaluation and corporate evaluation. He has been intimately involved in the early-stage growth and development of several upstream oil and gas companies in Canada and the United States. He has developed a strong working knowledge of the helium industry through his extensive relationships and personal interest in helium.

Kevin Cameron - Director

Mr. Cameron has an extensive background across multiple industries, most recently as the CEO of Ionetix Corporation, a cutting-edge diagnostics and therapeutics company that manufactures superconducting cyclotrons for the point-of-care production of PET radioisotopes. Kevin is also the Executive Chairman and co-founder of Glass Lewis, the world's second largest corporate governance and proxy advisory services firm. He served as President and General Counsel from 2003 to 2007, and then on Glass Lewis' Research Advisory Council from 2007 to 2019. Prior to co-founding Glass Lewis, he was general counsel of Moxi Digital, a technology venture that was sold to a company controlled by Microsoft co-founder Paul Allen. Previously, he was the general counsel at NorthPoint Communications, a publicly traded broadband telecommunications company. Kevin was an attorney with the corporate law firm of Kellogg, Huber, Hansen, Todd & Evans in Washington D.C. and served as a law clerk to the Hon. James L. Buckley of the United States Court of Appeals for the District of Columbia Circuit.

Darcy Spady – Director

Mr. Spady holds a Bachelor of Science degree in Petroleum Engineering from the University of Alberta and brings close to 40 years of energy industry engineering and leadership experience. Mr. Spady is currently the Managing Partner and co-founder of Carbon Connect International, a firm working with governments and the private sector to build technical capacity and develop pathways to achieve net zero emissions targets. Prior to co-founding Carbon Connect International, Darcy was the first ever Canadian President for the Society of Petroleum Engineers. (International) after being elected to the position for 2018. Prior to that, Darcy held executive and management positions at two Calgary-based TSX Venture Exchange companies and a Calgary-based global energy services company. Prior to moving to Calgary, Mr. Spady was based in Charleston, West Virginia and Fredericton, New Brunswick, serving in various management positions as part of the Columbia Natural Resources / Triana Energy team, that sold to Chesapeake Energy for \$2.2 billion USD in 2005.

Robert Nathan - Director

Mr. Nathan is an attorney and investor with extensive experience in venture formation and capital raising, who brings experience across a broad array of industries, including real estate development. After leaving the practice of law, he was a partner at New York-based Cinetic Media Inc., a boutique media investment bank specializing in project finance, sales representation and advice, where he co-founded a content aggregation platform for selling film and television content to all major distribution platforms and which was acquired by private equity. Nathan practiced law at the international corporate firm of Morrison and Foerster LLP in San Francisco, representing clients in multi-jurisdictional intellectual property litigation, and prior thereto practiced complex civil litigation with Sachnoff & Weaver Ltd in Chicago, focused on regulated industry and securities litigation in State and Federal courts. He is a past Chairman of Trustees for Alaska, a nonprofit public interest environmental law firm providing legal services to protect and defend public lands, waterways, wildlife, wild foods, clean air and water, and communities in Alaska.



Capitalization & Share Information



CSE: HECO OTC: HECOF

Current shares issued & outstanding*	47,736,060
Additional shares - fully diluted	
Convertible Pref Shares	14,132,162
Warrants	20,426,761
\$0.42 - 1,562,500 expiring May 2025	
\$1.00 - 11,798,180 expiring Oct 2023	
Pref Share Warrants– 7,066,081 expiring Oct 2028 (Market Price at time of conversion)	
Stock Options	3,135,000
Common & Pref Shares Outstanding	61,868,222
Fully diluted shares outstanding*	85,429,983
Market capitalization (basic) (@ \$0.20)*	\$12.34MM

*As at November 17, 2023



Helium Development Done Right: Reasons to Own HECO



Advanced Helium Development Company

Assets in multiple geographic areas across a known helium trend, with team bringing >2 decades of technical development and natural gas drilling expertise



Unique Farm-in Agreement

Partnering with PMT in SE Alberta adjacent to successful helium production areas; additional exploration potential on ~369,000 acres of PMT land



Numerous Near & Longer Term Catalysts

Drilling of 2 wells in SE Alberta during 2H/23 sets the stage for medium to longer-term growth



Three Different Asset Areas

1) SE Alberta; 2) the third largest helium landholding in southern Saskatchewan; and 3) proven assets in Montana, all helps to diversify risk and opportunities



Leadership & Board

High integrity team aligned with shareholders, bringing enhanced governance and aiming to demonstrate helium development done right





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