



**Headwater Exploration Inc.**

**CORPORATE PRESENTATION**

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**TSX:HWX**

**October 2024**



## Outlook

### Average Daily Production

	2024 Current Guidance <sup>(1) (2)</sup>
Annual Daily Production (boe/d)	20,000
Fourth Quarter Daily Production (boe/d)	21,500

### Financial Summary (\$millions)

Adjusted Funds Flow From Operations <sup>(4)</sup>	319
Capital Expenditures <sup>(3)</sup>	200
Dividends <sup>(6)</sup>	95
Exit Adjusted Working Capital <sup>(4)</sup>	86

### Pricing and Key Assumptions

Crude Oil – WTI (US\$/bbl)	76.25
Crude Oil – WCS (CDN\$/bbl)	83.88

## Capitalization

Headwater Exploration Inc.	TSX	HWX
Share Price (Sep 27th, 2024)	\$/sh.	\$6.31
Shares Outstanding (Basic)	MM	237.7
Dilutives <sup>(5)</sup>	MM	3.4
Shares Outstanding (Fully Diluted) <sup>(5)</sup>	MM	241.1
2024 Q2 Exit Adjusted Working Capital <sup>(4)</sup>	\$MM	\$62.4

## 2024 Highlights

11% production per share growth projected from \$160 million of development capital <sup>(3)</sup>, re-investment rate <sup>(7)</sup> of 50%

Included in development capital <sup>(3)</sup> is \$25 million committed to accelerating secondary recovery projects

\$40 million attributed towards land acquisition and exploration drilling

Stable quarterly dividend of \$0.10 per common share <sup>(6)</sup>

## Multi-Year Business Strategy

Grow base production while maintaining positive adjusted working capital for strategic opportunities

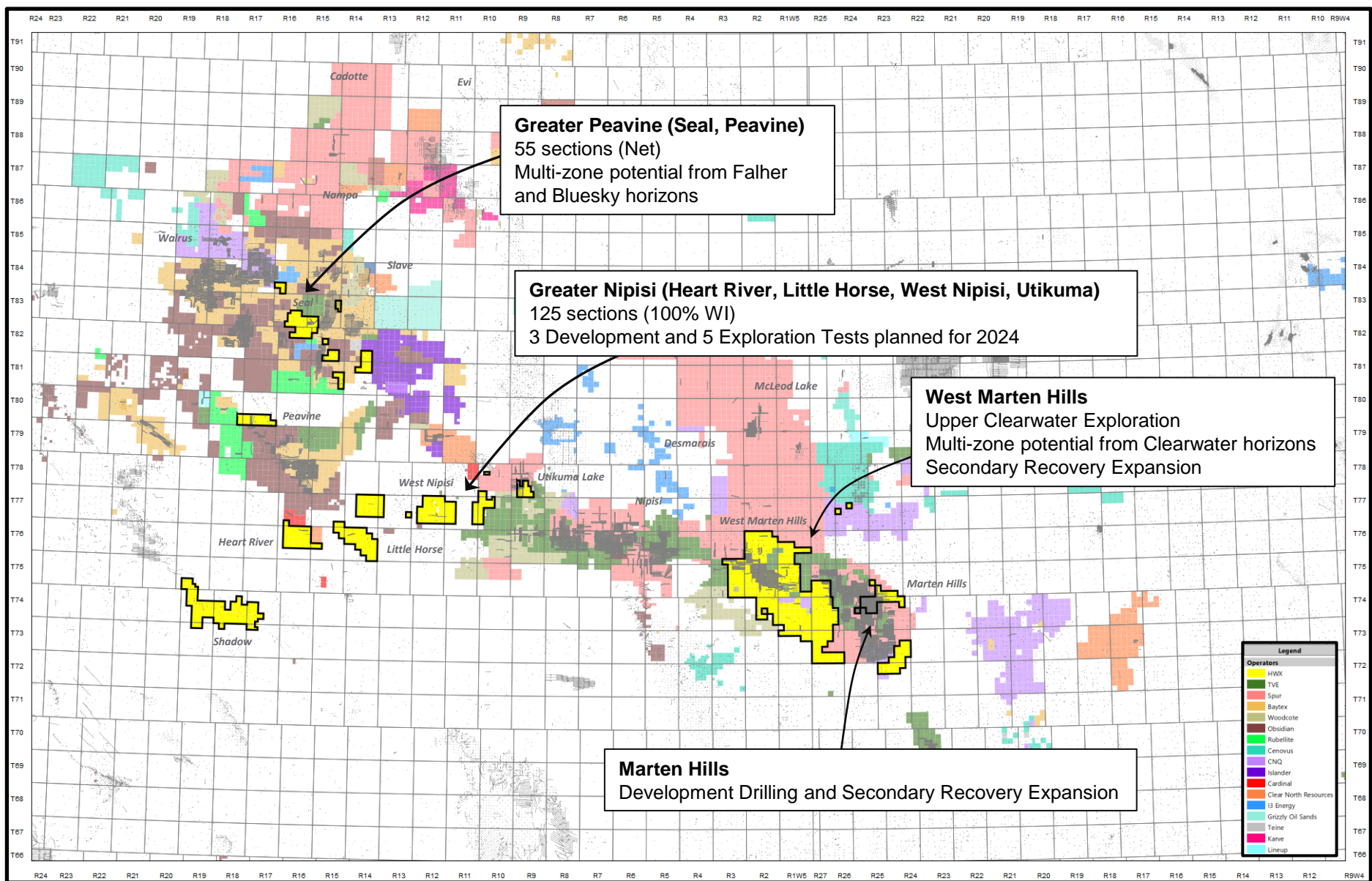
Continue to implement secondary recovery, providing asset duration and sustainable long-term returns

Continue adding incremental prospects through strategic land acquisitions and accretive M&A

Grow the quarterly dividend <sup>(6)</sup>

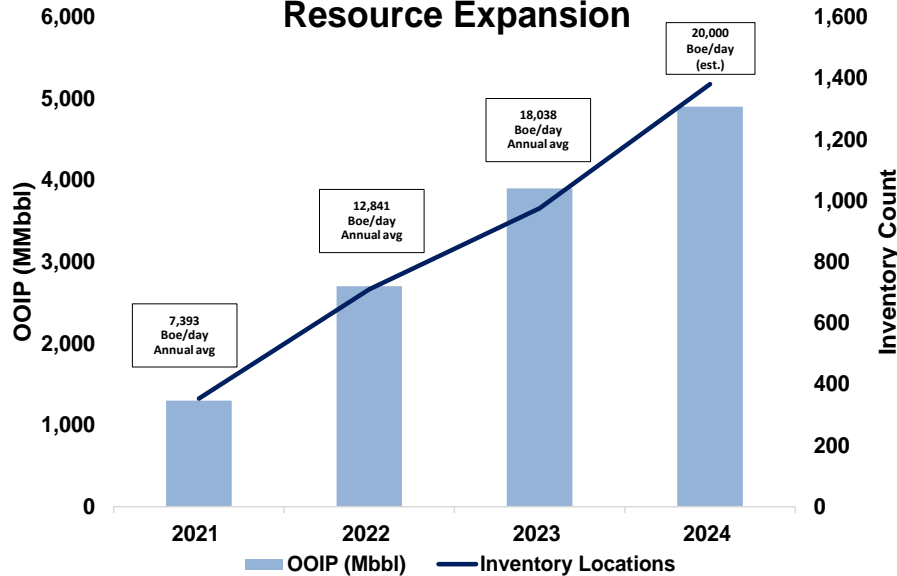
# REGIONAL CLEARWATER AREA

Total Land Holdings over 527 net sections with 71.7 net sections added YTD 2024

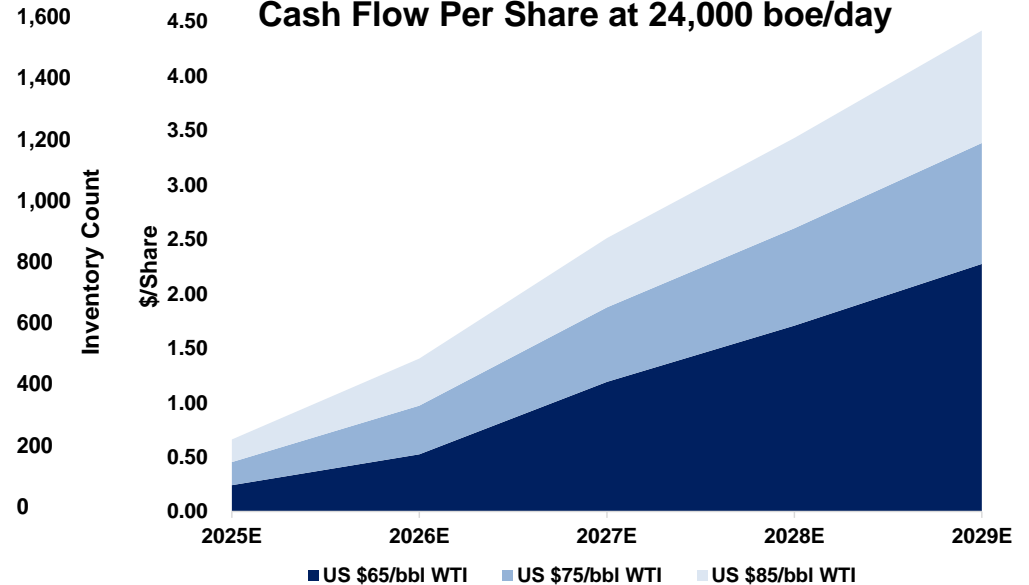


See Slide Notes and Advisories

### Significant Clearwater Region Resource Expansion



### Illustrative Example of Cumulative Free Cash Flow Per Share at 24,000 boe/day



- **Realized approximately 58% 3-year compound annual growth in inventory and OIIP organically while increasing production 170%, all within cash flow**
- Continued inventory expansion and secondary recovery advancement will provide the pathway for future growth and return of capital
- Clearwater region remains opportunistic for continued land and inventory expansion

- **Current inventory provides opportunity to grow beyond 24,000 boe/day**
- Less than 40% maintenance capital re-investment rate <sup>(2)</sup> at US\$75 WTI
- Secondary recovery expansion and resulting decline mitigation will further reduce maintenance capital and increase asset duration
- 24,000 boe/day maintained with 60 – 70 wells per year

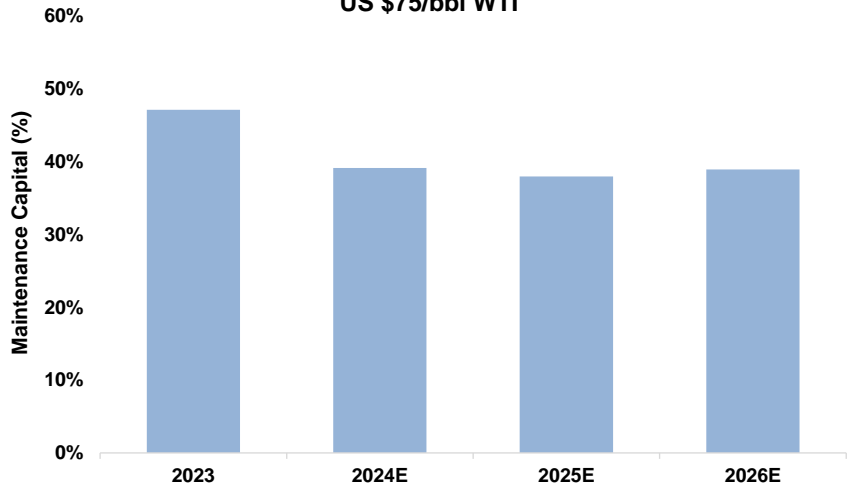
### Corporate Development Strategy @ US\$75 WTI & US\$15 WCS Differential

Year	Production	Production Growth	Atax Funds Flow <sup>(5)</sup>	Maintenance Capital <sup>(1)</sup>	Maintenance Capital Reinvestment Rate <sup>(2)</sup>	Development Capital Program <sup>(3)</sup>	Exploration Capital Program <sup>(4)</sup>	Total Capital Reinvestment Rate <sup>(2)</sup>	Free Cash Flow <sup>(5)</sup>	Dividend Payment @ \$0.40/share
	Boe/d	%	\$MM	\$MM	%	\$MM	\$MM	%	\$MM	\$MM
2025E	22,000	10%	310	118	38%	62	20	64%	110	96
2026E	24,000	9%	335	130	39%	70	20	66%	115	96

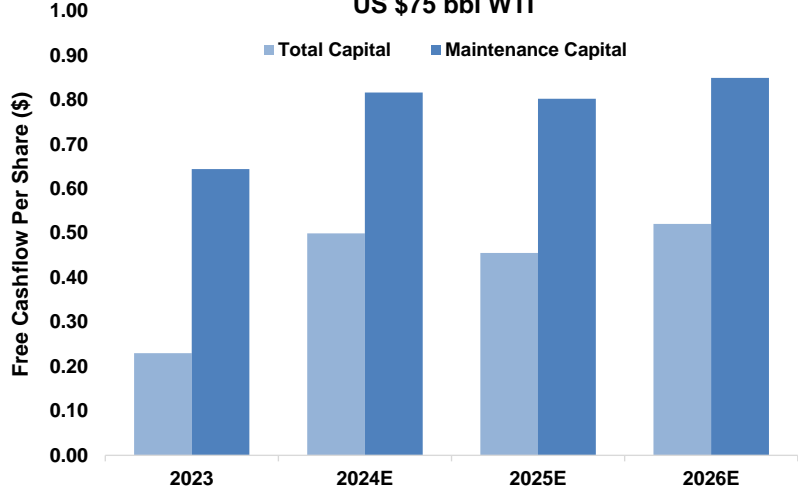
\* 2025 & 2026 Development Capital includes \$20-\$25 million for secondary recovery projects



**Maintenance Capital % of Funds Flow**  
US \$75/bbl WTI



**Free Cashflow Per Share**  
US \$75 bbl WTI



### Capital Allocation

- 10% yearly production per share growth
- \$0.10 per share quarterly dividend return of capital
- Sustainability through investment in exploration and secondary recovery

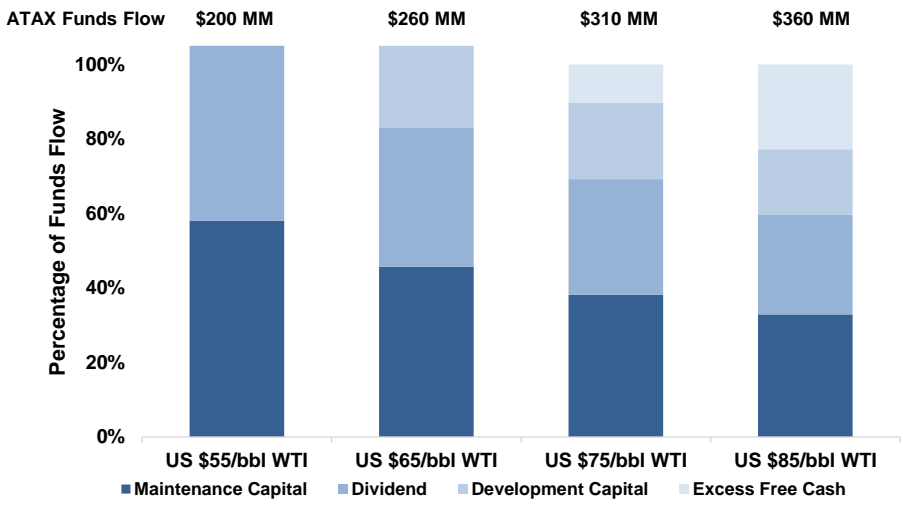
### Resiliency

- \$62.4 million positive adjusted working capital
- Maintenance capital and dividend sustainable to US \$57/bbl WTI
- Leading maintenance capital requirements of < 40% of funds flow at US \$75/BBI WTI

### Opportunity

- Over 700 sections of land and balance sheet for continued expansion
- 20 years of identified inventory at 24,000 boe/d
- Identified inventory has doubled over last 2 years through organic exploration
- 20% reduction (\$25 million) in maintenance capital realized through secondary recovery with visibility to a further 20% reduction resulting in increased FCF yield

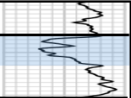
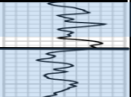
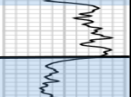


**2025 Funds Flow Allocation**








See Slide Notes and Advisories including "Exploration Drilling Inventory Advisory". Majority of identified inventory are considered unbooked locations.

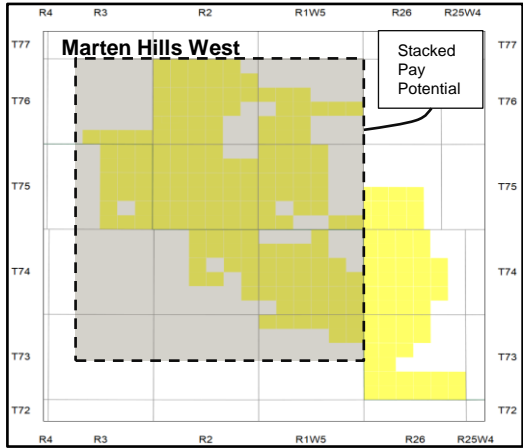
# HEADWATER EXPLORATION

## Identified Inventory - Stacked Pay with Multiple Proven Zones

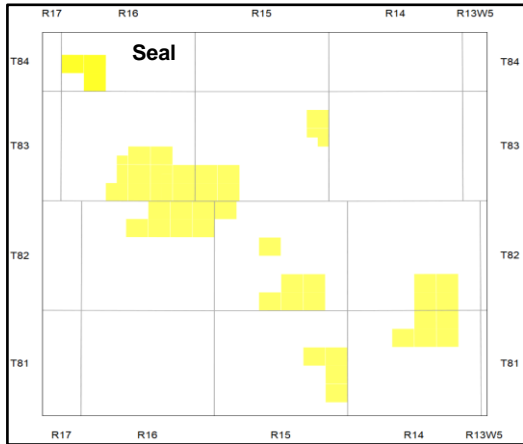
Marten Hills West	Zone	OOIP (MMbbl)	Sections	Producing Wells	Remaining Identified Inventory	Current Production (boe/day)
	CLWT G	76	7	3	31	251
	CLWT F	101	6	-	34	-
	CLWT E	540	52	5	287	227
	CLWT SS	1,112	50	114	159	11,056
	CLWT B	142	15	8	56	316
	<b>Total</b>	<b>1,971</b>		<b>130</b>	<b>567</b>	<b>11,849</b>

Seal	Zone	OOIP (MMbbl)	Sections	Producing Wells	Remaining Identified Inventory	Current Production (boe/day)
	FLHR B	285	20	4	83	316
	FLHR C	349	26	1	123	38
	FLHR D	390	37	3	192	118
	L FLHR D	114	26	-	39	-
	BLSK	340	19	2	52	180
	<b>Total</b>	<b>1,478</b>		<b>10</b>	<b>489</b>	<b>652</b>
<b>Stacked Pay</b>	<b>Total</b>	<b>3,449</b>		<b>140</b>	<b>1,056</b>	<b>12,501</b>



- Stacked pay potential across 70% of Headwater’s Clearwater OOIP
- Stacked pay allows for lower capital costs and increased operational efficiencies
- Remaining Clearwater non-stacked prospects account for ~ 365 locations and 1,400 MMbbl of OOIP



See Slide Notes and Advisories including “OOIP Advisory” and “Exploration Drilling Inventory Advisory”. Majority of remaining identified inventory are considered unbooked locations.



Marten Hills West	Zone	OOIP (MMbbl)	OOIP with Secondary Recovery Potential (MMbbl)	Sections Amenable to Secondary Recovery	Sections Currently Supported by Secondary Recovery	2023 P+P Year End Secondary Recovery Reserves (MMbbl)	Current Production Directly Supported by Secondary Recovery (bbl/day)	Comments
	CLWT G	76	-	-	-	-	-	Limited potential
	CLWT F	101	-	-	-	-	-	Limited potential
	CLWT E	540	249	18	1	-	175	First pilot on injection
	CLWT SS	1,112	633	29	2	1.3	300	Pilot successful, expansion in 2025
	CLWT B	142	-	-	-	-	-	Limited potential
Marten Hills West	Total	1,971	882			1.3	475	

Marten Hills Core	Zone	OOIP (MMbbl)	OOIP with Secondary Recovery Potential (MMbbl)	Sections Amenable to Secondary Recovery	Sections Currently Supported by Secondary Recovery	2023 P+P Year End Secondary Recovery Reserves (MMbbl)	Current Production Directly Supported by Secondary Recovery (bbl/day)	Comments
	CLWT SS	539	539	9	6	8.8	3,550	Proven full scale secondary recovery
Secondary Recovery	Total	2,510	1,421			10.1	4,025	

- *Approximately 35% of Headwater's corporate oil production is supported under secondary recovery*
- *It is estimated that secondary recovery has mitigated corporate decline by 5% – 7%, reducing maintenance capital by ~ \$25 million*
- *Analog reservoirs have experienced a doubling of recovery under secondary recovery for a total recovery of 8% – 10% of OOIP*
- *Doubling recovery factor returns approximately 4 times the invested capital over the life of the asset at \$75 WTI*
- Three areas of large resource in place are currently under secondary recovery
  - **Marten Hills Core** – 90% of the core area is expected to be supported by secondary recovery by year end 2024
  - **West Marten Hills Sandstone** – Full section pilot under secondary recovery for 7 months with a second full section pilot to be initiated in Q4 2024
  - **Clearwater E** – Initial lateral style recovery initiated in Q3 2024

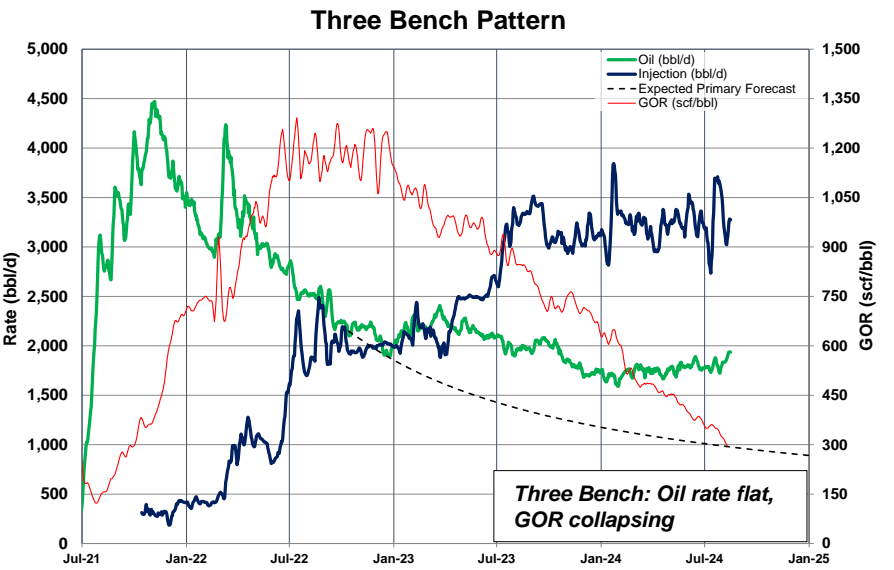
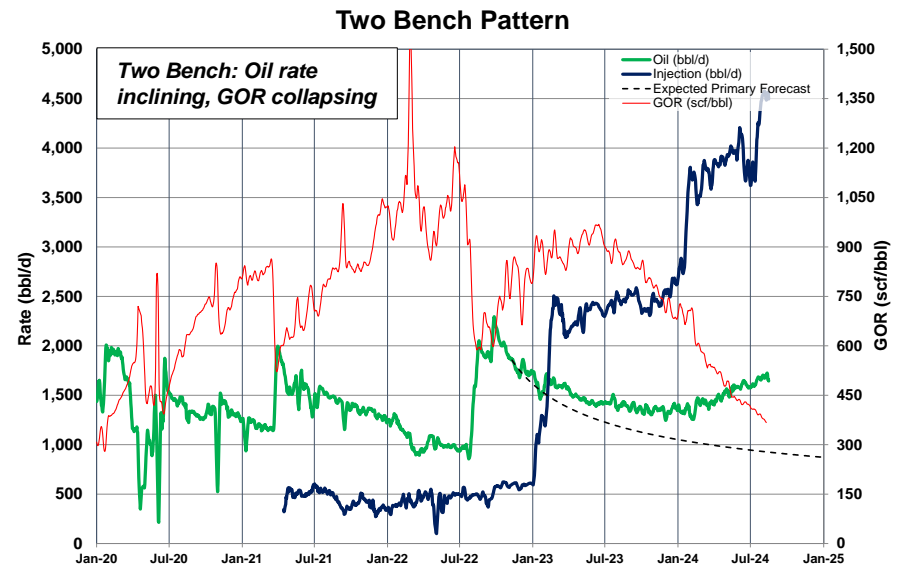
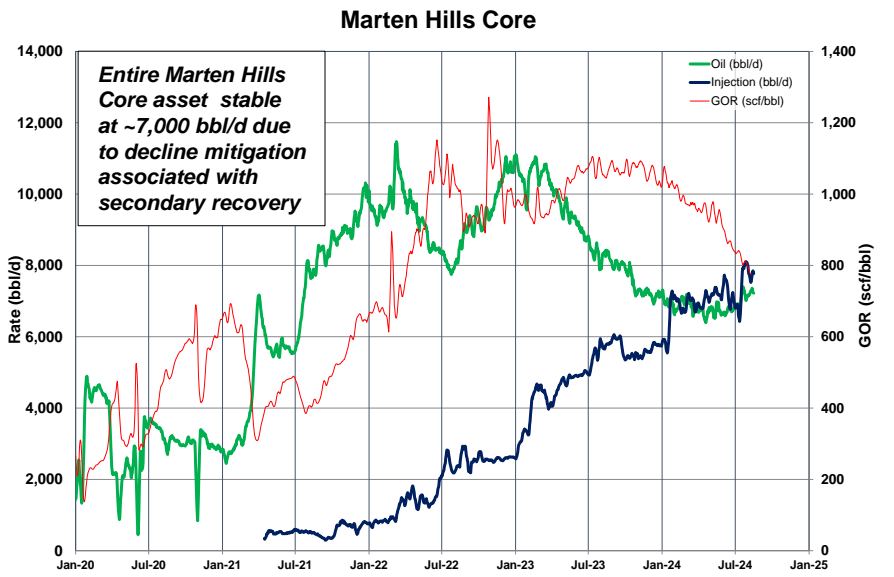
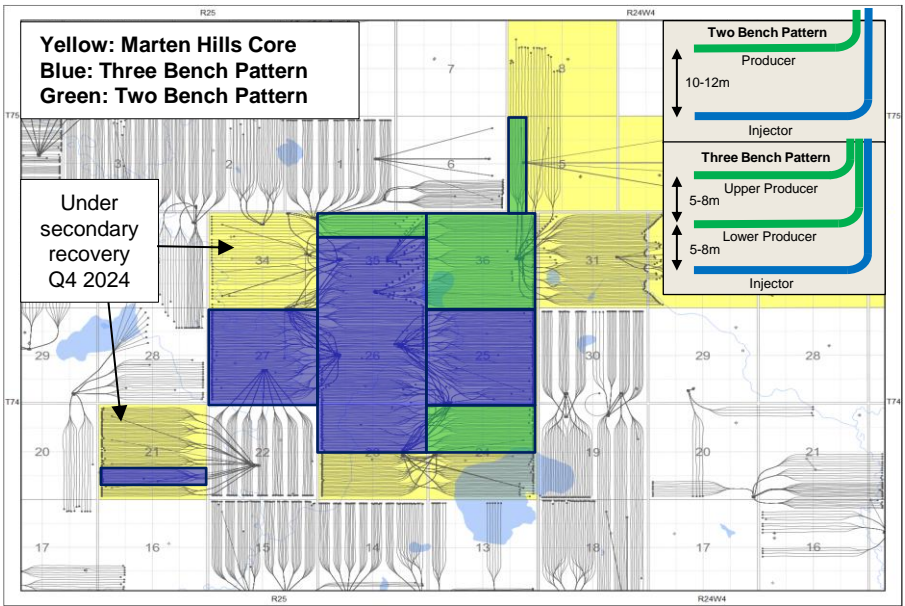


# MARTEN HILLS CORE SECONDARY RECOVERY

## Continued Secondary Recovery Performance

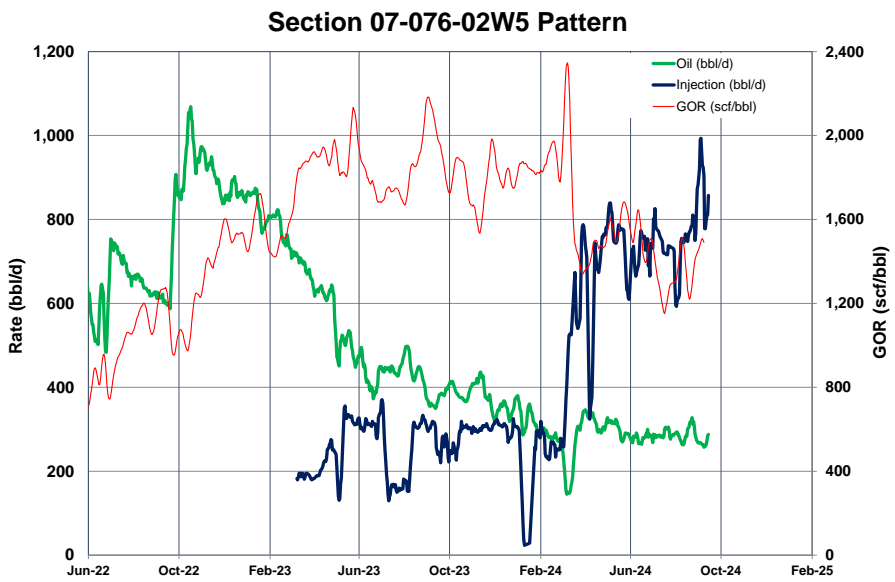
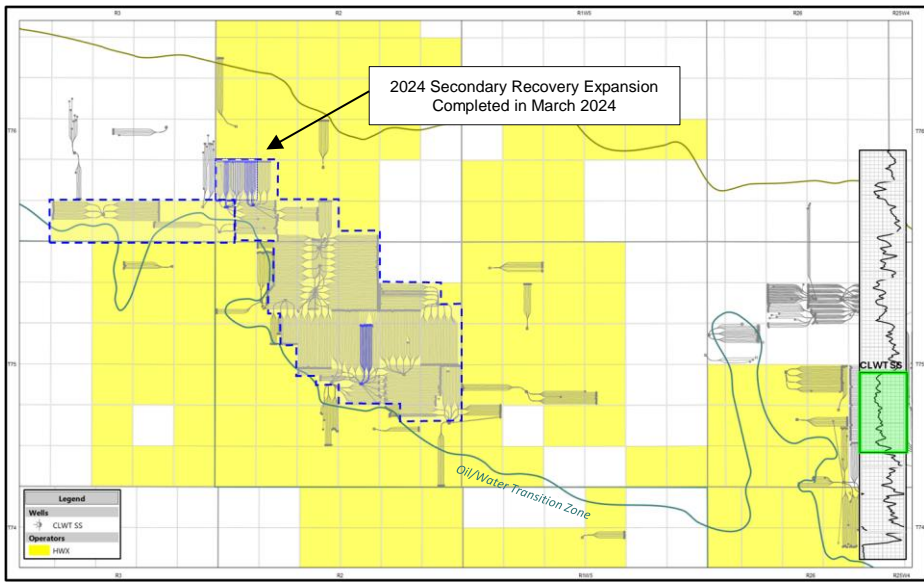


### Multi-Layer Support





## Marten Hills West – Utilizing Marten Hills Core Learnings



## Marten Hills West Secondary Recovery

- Oil rate stabilization and GOR suppression are evident in pilots
- Full section pattern was implemented at Section 07-076-02W5 in Q1 2024
  - Strong injectivity at a 2X voidage replacement ratio
  - Stabilized production at 300 bbl/d
  - Wide-spaced injector pilot showing encouraging injectivity
- **The Clearwater SS has an estimated OOIP of 633 MMbbl that is amenable to secondary recovery with theoretically anticipated total recoveries of 8% - 10% of OOIP**

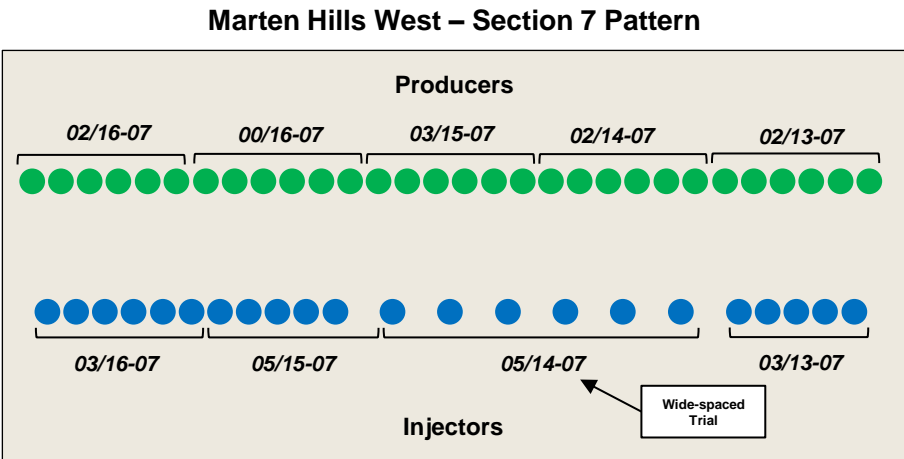
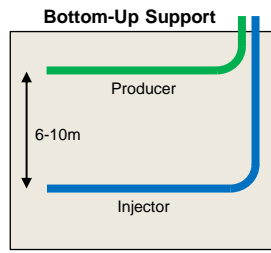
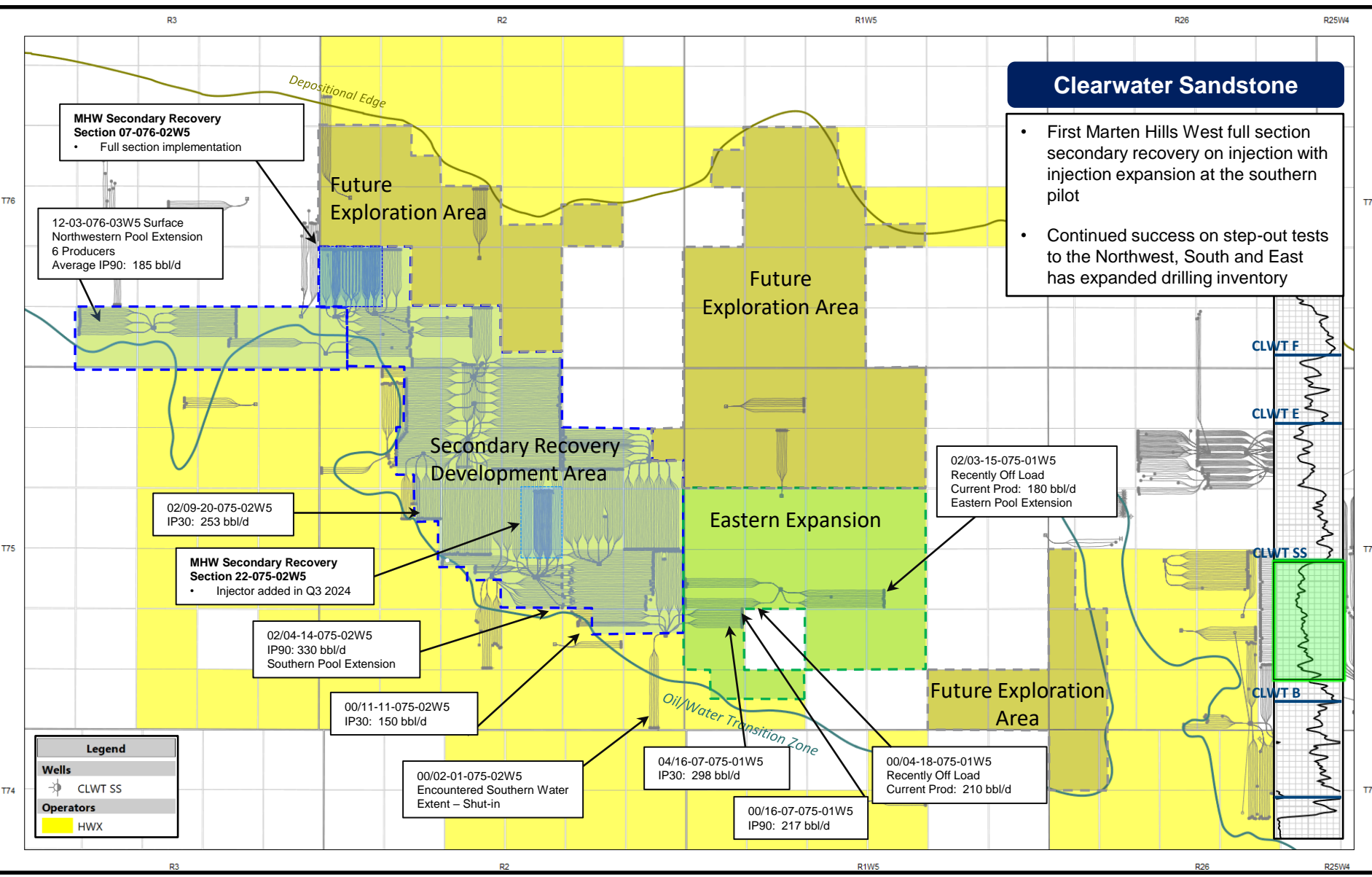


Diagram is a cross-sectional view – looking at well toes

# MARTEN HILLS WEST – CLEARWATER SANDSTONE



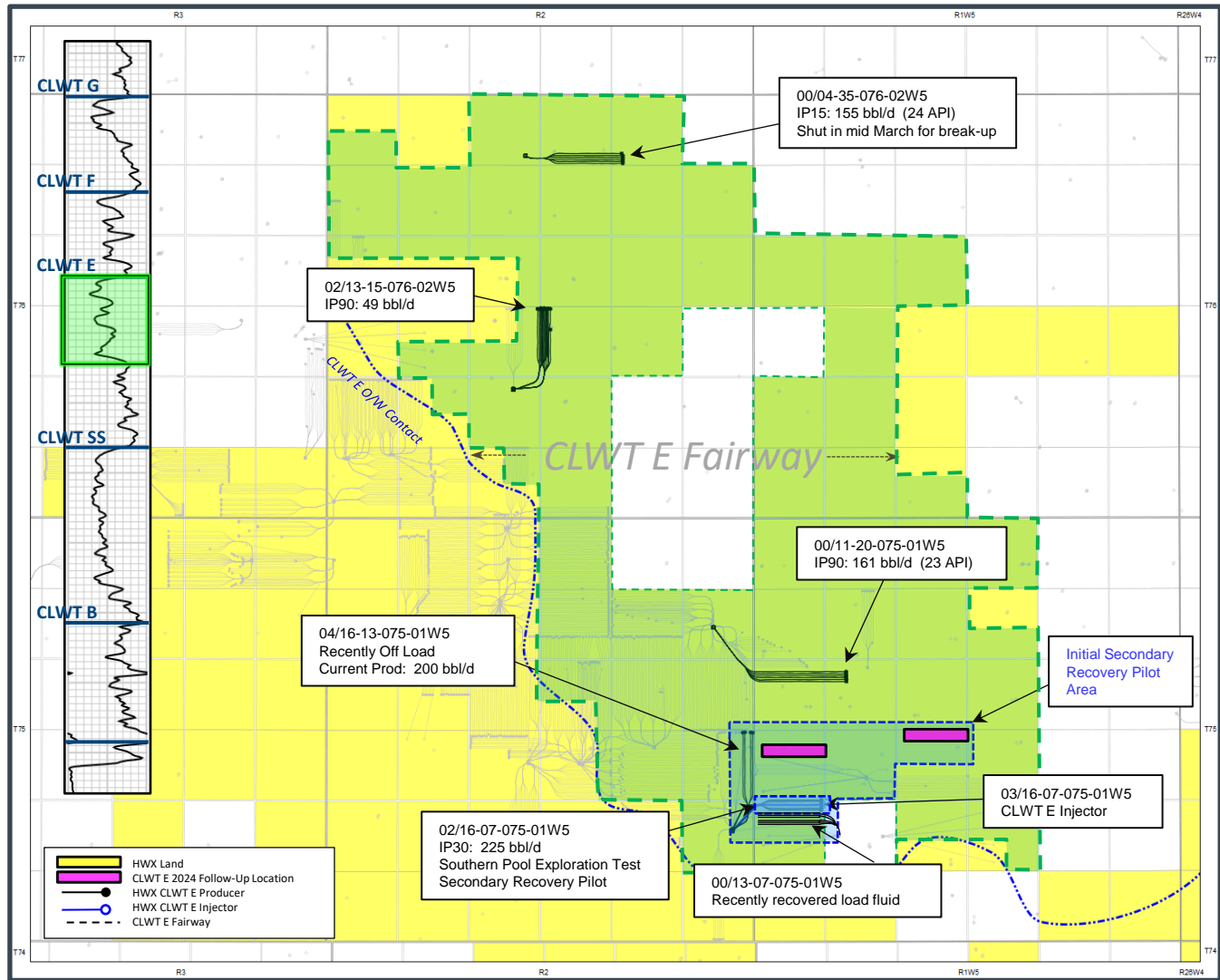
## Continued Step-out Success; Continuing Secondary Recovery



# MARTEN HILLS WEST EXPLORATION



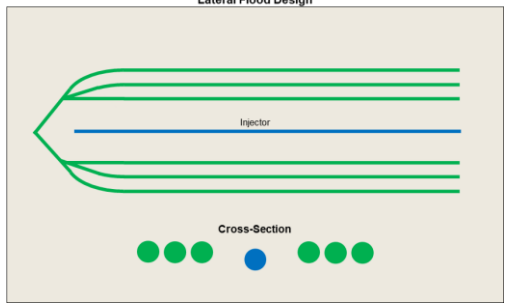
## Clearwater E Pool Expansion - A new growth opportunity within Marten Hills West

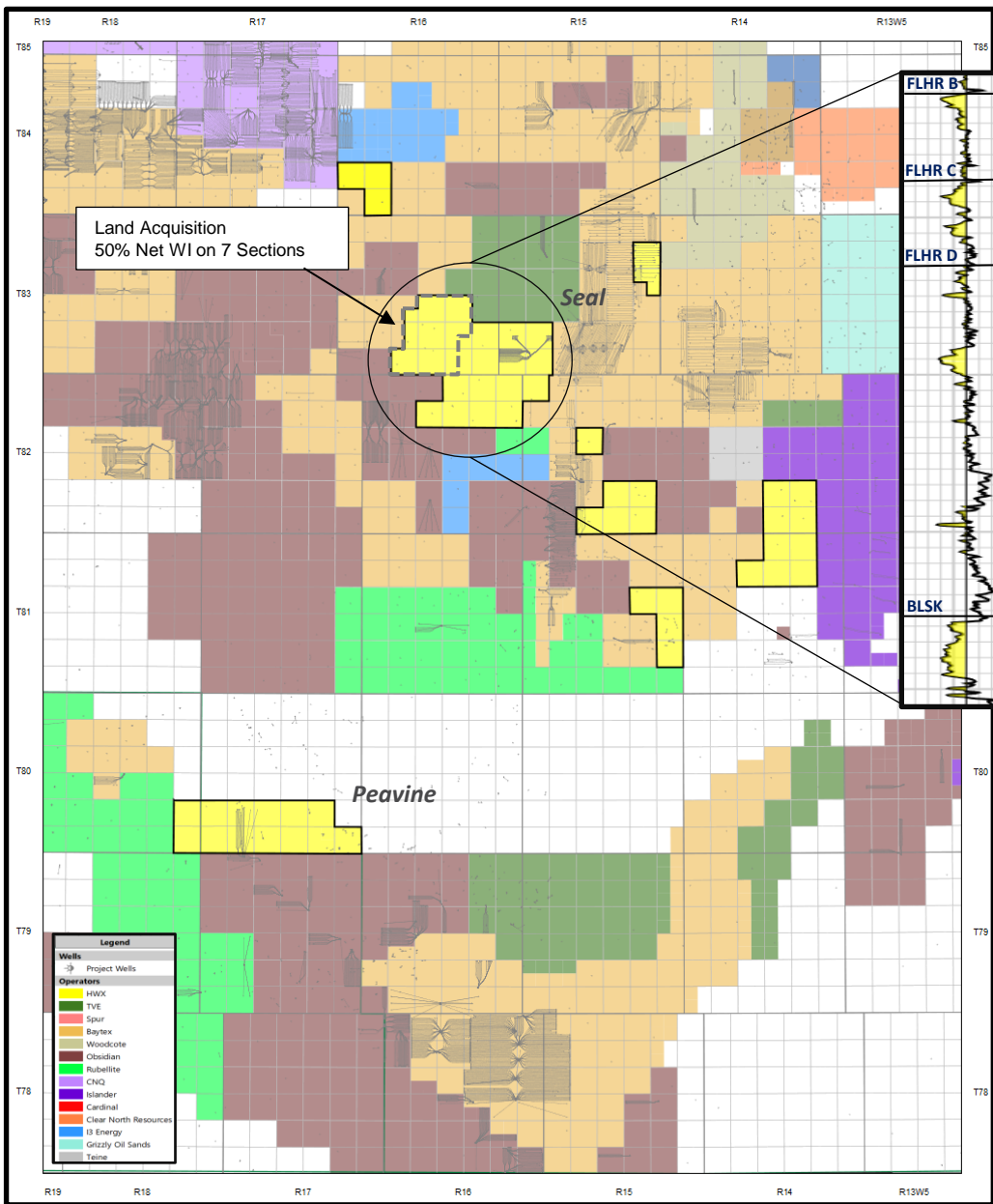


### Clearwater E

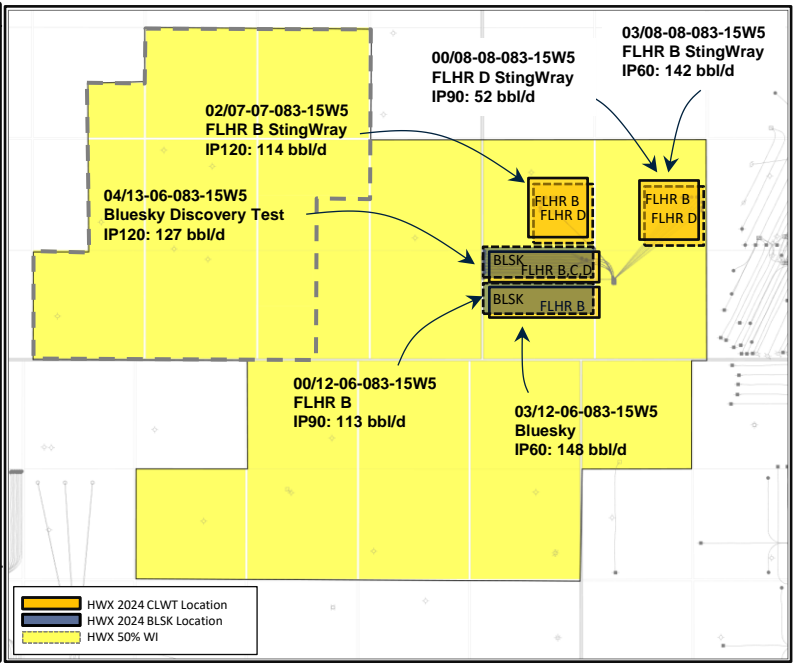
**OOIP: 540 MMbbl**  
**Identified Inventory: 287 locations**

- **100/11-20-075-01W5: IP90: 161 bbl/d** southern discovery location. Strong producer with good quality (23 API) oil
- **102/16-07-075-01W5: IP30: 225 bbl/d** Drilled in a 3x3 configuration to allow for secondary recovery
  - The single leg injector supporting the 02/16-07 well has been injecting for over 2 weeks at favorable rates
- **00/04-35-076-02W5:** Northern exploration test achieved a 15-day initial production rate of 155 bbl/d before being shut in for break-up. All-season road to be constructed in Q4 2024
- **104/16-13-075-01W5:** Recently off load with current production of 200 bbl/day
- **100/13-07-075-01W5:** Recovering load fluid
- The regional extent of the Clearwater E is now estimated to be up to 52 sections in size
- Two more follow-up tests are planned for Q4 2024, all drilled with 3x3 configuration for secondary recovery





### Seal



### Bluesky

- Initial Bluesky success test at 04/13-06-083-15W5 achieved an IP30 rate of 215 bbl/day and an IP60 rate of 166 bbl/day
- The follow up 03/12-06-083-15W5 well achieved an IP30 rate of 153 bbl/day and an IP60 rate of 148 bbl/day and, validating an estimated 15 sections of commercial Bluesky potential

### Falher B

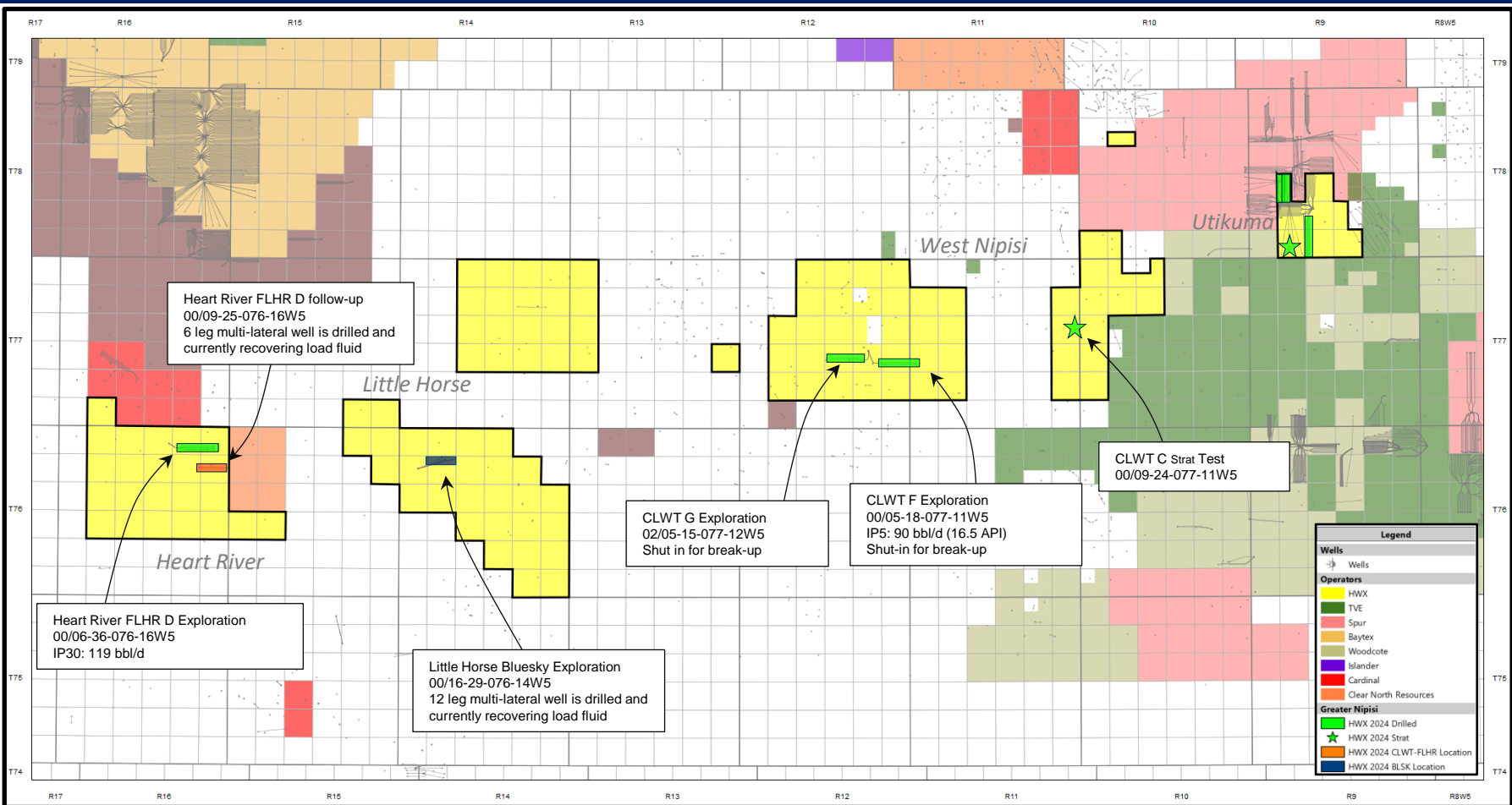
- Two "StingWray" configured wells were drilled in the Falher B
  - 02/07-07-083-15W5 achieved and IP30 rate of 180 bbl/day and an IP60 rate of 146 bbl/day
  - 03/08-08-083-15W5 achieved an IP30 rate of 198 bbl/dad and an IP60 rate of 142 bbl/day
- A 12 Leg Multi-Lateral at 00/12-06-083-15W5 achieved an IP30 rate of 150 bbl/day and an IP60 rate of 127 bbl/day

### Falher D

- A "StingWray" configured well was drilled at 00/08-08-083-15W5 and experienced a downhole blockage due to sand production

# GREATER NIPISI – 125 SECTIONS

## Multiple Exploration Prospects



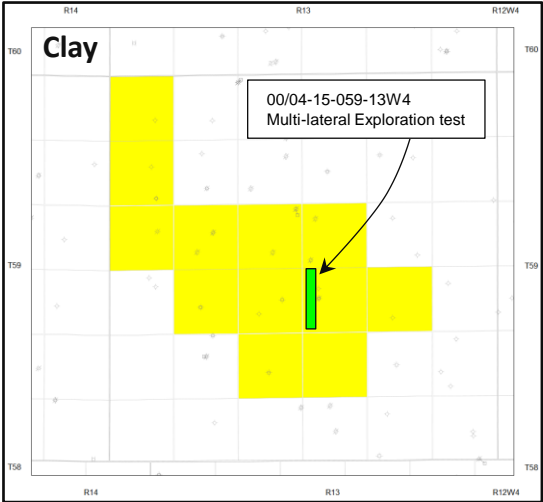
### Exploration

- **Little Horse (49 sections): Bluesky exploration test at 00/16-29-076-14W5:** drilled and recovering load fluid; with success a follow up test will be drilled on the northern block
- **00/06-36-076-16W5 Heart River 6-Lateral Falher D Test:** Success with an IP30 rate of 119 bbl/d (14 API oil). Follow-up at 00/09-25-076-016W5 is drilled and recovering load fluid and will further validate the Falher D pool estimated to be 12 sections in size
- **00/05-18-077-11W5 West Nipisi 4-Lateral CLWT F Test:** Achieved a 5-day initial production rate of 90 bbl/d prior to being shut in for break up
- **02/05-15-077-12W5 West Nipisi 4-Lateral CLWT G Test:** Encountered natural fractures while drilling resulting in high fluid rates and increasing water cuts during load recovery. Strong geo-technical shows while drilling. Shut in due to seasonal access
- Follow-up tests are planned in both the CLWT F and CLWT G in 2025 once winter access can be established



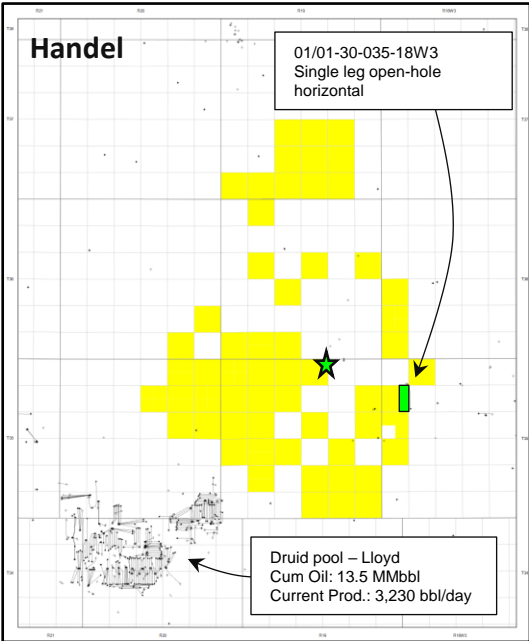
# ADDITIONAL EXPLORATION OPPORTUNITIES

## W3/W4 Heavy Oil Exploration



### Clay

- McLaren Formation
- 16 sections in greater Clay area
- 7-leg multi-lateral exploration well rig-released Sept 3, 2024
- Recently on production and producing at encouraging rates
- Up to 23 mmbbl OOIP per section



### Handel

#### Large contiguous land block accumulated:

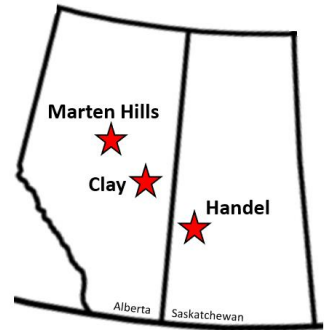
- 57.75 Sections

#### Lloyd test: 01/01-30-035-18W3:

- Open-hole, single-leg horizontal
- Encountered 1,000m of excellent quality reservoir across the lateral
- Well placed on production early March 2024 and has an IP120 rate of 74 bbls/d

#### NEXT STEPS:

- 3D seismic program planned for Q4 2024
- Follow-up multi-lateral drilling program anticipated to start in Q1 2025



**LEGEND**

2024 Exploration Locations:

- ★ Strat Test
- Horizontal



## Add Incremental Prospects Through Strategic Land Acquisitions and M&A

- Added 71.7 sections of Clearwater lands YTD 2024, total Clearwater lands now totaling over 525 net sections
- Added 38.7 sections of non-Clearwater lands YTD 2024, total Non-Clearwater lands now exceeding 194 net sections

## Explore and Exploit

- Marten Hills West success from CLWT SS resulting in current production of >11,500 bbl/d and potential from 55 sections
- CLWT E discovery, similar identified regional extent as the CLWT SS with secondary recovery potential
- Economic production proven from four different Clearwater sands in Marten Hills West & three different sands in Seal
- Seal success in 2024 with a Bluesky follow-up and “StingWray” configuration wells in the Falher B and Falher D zones

## Asset Duration – Implement Enhanced Oil Recovery

- Oil volumes from the Marten Hills Core area have been flat at 7,000 bbl/d for more than nine months
- 90% of the Marten Hills Core area expected to be supported by secondary recovery by year end 2024
- Marten Hills West full section secondary recovery initiated in Q1 2024 resulting in current stabilized rates of 300 bbl/d
- Headwater now has approximately 35% of corporate oil production stabilized

## Implement a Return of Capital Strategy

- Quarterly cash dividend of \$0.10/share implemented Q4 2022; paid a total of \$165 million to shareholders since inaugural dividend

## ESG Focus

- Minimal uninflated undiscounted corporate ARO of ~ \$69.5 million
- Active partner with Treaty 8 Nations supporting indigenous businesses and community initiatives
- Headwater has entered into an agreement to construct a natural gas gathering system in Marten Hills West, which is expected to allow the Company to conserve a meaningful amount of its natural gas production in the area



**Headwater Exploration Inc.**

**Appendix**

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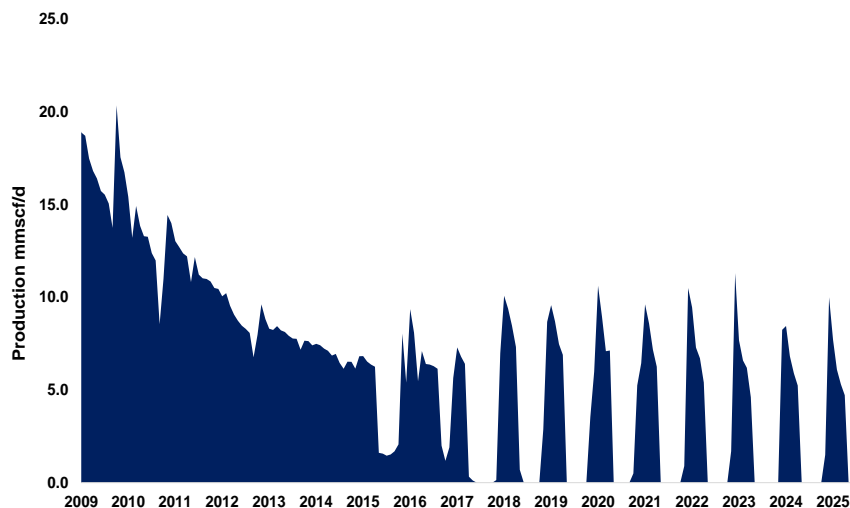
**TSX:HWX**

# MCCULLY PRODUCING ASSET

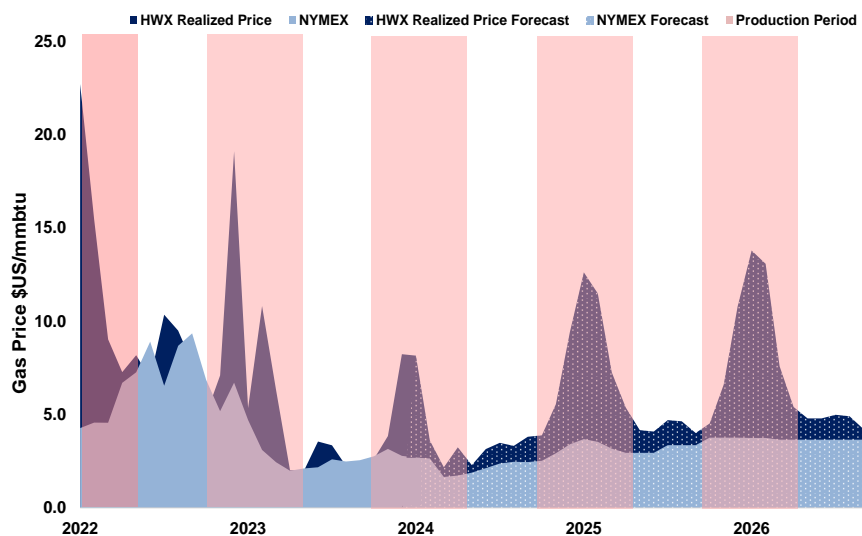


Dry Gas with 100% owned infrastructure and limited liability

## McCully Asset Daily Production



## HWX Realized Pricing and Strip Pricing (US\$/MMBTU)



## Operational Summary

Proved Developed Producing RLI <sup>(1)</sup>	Years	<b>14.3</b>
Undiscounted Uninflated ARO <sup>(2)</sup>	\$MM	<b>11.4</b>
Average Seasonal Production Rate	mmscf/d	<b>6.5</b>
2024 Estimated Operating Cashflow	\$MM	<b>15</b>
Yearly Maintenance Capital	\$MM	<b>&lt;0.5</b>

- Asset is produced November through April and shut-in during summer months to capture premium pricing as highlighted
- Algonquin City-Gate is a unique Boston area demand driven market offering premium winter pricing
- New purchaser effective April 1, 2024, with AGT pricing plus contract adder

# EXPERIENCED TEAM – MANAGEMENT AND DIRECTORS

## Headwater Exploration Inc.



### Management Team

<b>Neil Roszell, P. Eng.</b> <i>Executive Chairman</i>	<ul style="list-style-type: none"> <li>Former President, CEO and/or Executive Chairman and founder of Raging River Exploration Inc., Wild Stream Exploration Inc. and Wild River Resources Ltd.</li> </ul>
<b>Jason Jaskela, P. Eng.</b> <i>President, CEO &amp; Director</i>	<ul style="list-style-type: none"> <li>Former COO and founder of Raging River Exploration Inc. and VP Production and founder of Wild Stream Exploration Inc.</li> </ul>
<b>Terry Danku, P. Eng.</b> <i>Vice President, Engineering</i>	<ul style="list-style-type: none"> <li>Former VP, Engineering of Raging River Exploration Inc. and Engineering Manager of Wild Stream Exploration Inc.</li> </ul>
<b>Jonathan Grimwood, P.Geo</b> <i>Vice President, New Ventures</i>	<ul style="list-style-type: none"> <li>Former VP, Exploration of Raging River Exploration Inc., President of and founder of RMP Energy Inc.</li> </ul>
<b>Ali Horvath, CA, CPA</b> <i>Chief Financial Officer</i>	<ul style="list-style-type: none"> <li>Former Controller and founder of Raging River Exploration Inc.</li> </ul>
<b>Georgia Little, CA, CPA</b> <i>Vice President, Finance</i>	<ul style="list-style-type: none"> <li>Former Controller at Headwater Exploration Inc. and VP Finance at Nauticol Energy Ltd.</li> </ul>
<b>Scott Rideout</b> <i>Vice President, Land</i>	<ul style="list-style-type: none"> <li>Former VP, Land of Raging River Exploration Inc. and Manager Business Development and Land of Surge Energy Inc.</li> </ul>
<b>Brad Christman</b> <i>Chief Operating Officer</i>	<ul style="list-style-type: none"> <li>Former Manager of Production and Facilities and founder of Raging River Exploration Inc.</li> </ul>
<b>Dieter Deines, P.Geo</b> <i>Vice President, Exploration</i>	<ul style="list-style-type: none"> <li>Former Geoscience Manager at Tundra Oil &amp; Gas Ltd.</li> </ul>

### Board of Directors

<b>Kevin Olson</b>	<ul style="list-style-type: none"> <li>Former director of Raging River Exploration Inc., Wild Stream Exploration Inc. and Wild River Resources Ltd.</li> </ul>
<b>Chandra Henry</b>	<ul style="list-style-type: none"> <li>Currently CFO &amp; Chief Compliance Officer of Longbow Capital Inc. and Director of Whitecap Resources Inc.</li> </ul>
<b>Stephen Larke</b>	<ul style="list-style-type: none"> <li>Currently Director with Vermilion Energy Inc. and Topaz Energy Corp.</li> </ul>
<b>Dave Pearce</b>	<ul style="list-style-type: none"> <li>Currently Deputy Chairman with Azimuth Capital Management and former director of Raging River Exploration Inc.</li> </ul>
<b>Phillip Knoll</b>	<ul style="list-style-type: none"> <li>Director of Corridor Resources Inc. since 2010. Formerly CEO of Corridor Resources Inc. and currently a director of AltaGas Ltd.</li> </ul>
<b>Kam Sandhar</b>	<ul style="list-style-type: none"> <li>Currently Cenovus' Executive Vice-President and Chief Financial Officer</li> </ul>
<b>Elena Dumitrascu</b>	<ul style="list-style-type: none"> <li>Co-founder, Chief Technology Officer of Credivera</li> </ul>
<b>Devery Corbin</b>	<ul style="list-style-type: none"> <li>Former Chief of Staff for the Mayor of the City of Calgary</li> </ul>

## Slide 1

1. Assumptions used in the updated 2024 guidance as released on May 9, 2024 and reconfirmed on July 25, 2024 include: WTI of US\$76.25, WCS of Cdn\$83.88/bbl, AGT of US\$5.11/mmbtu, AECO of Cdn\$1.88/GJ, foreign exchange rate of Cdn\$/US\$ of 0.73, blending expense of WCS less \$2.20, royalty rate of 19.0%, operating and transportation costs of \$13.45/boe, G&A and interest income and other expense of \$1.30/boe and cash taxes of \$6.85/boe. The AGT price is the average price for the winter producing months in the McCully field which include January to April and November to December.
2. Forecasted 2024 annual production guidance comprised of: 18,650 bbls/d of oil, 50 bbls/d of natural gas liquids and 7.8 mmcf/d of natural gas.
3. Capital expenditures and development capital are non-GAAP financial measures. Please refer to Non-GAAP Advisory.
4. Adjusted funds flow from operations and exit adjusted working capital are capital management measures. Please refer to Non-GAAP Advisory.
5. Fully diluted shares outstanding includes 0.5 million stock options outstanding at a weighted average strike price of \$4.42 and 3.0 million performance share units. The number of outstanding performance share units has been adjusted for dividends. Restricted share units have been excluded as the Company intends to cash settle these awards.
6. See Dividend Advisory.
7. Reinvestment rate is a non-GAAP ratio. Please refer to Non-GAAP Advisory.

## Slides 2, 11, 12 & 13

Public data obtained from geoSCOUT. Please refer to Market, Independent Third Party and Industry Data Advisory.

## Slide 3

Refer to Development Strategy Advisory.

1. Maintenance capital includes all capital expenditures required to support development to offset declines and hold production flat.
2. Maintenance capital reinvestment rate is calculated as maintenance capital divided by adjusted funds flow from operations (also referred to as Atax Funds Flow or cash flow). Total capital reinvestment rate is calculated as total capital expenditures divided by adjusted funds flow from operations (also referred to as Atax Funds Flow or cash flow).
3. Development capital program includes capital expenditures associated with previously discovered pools/identified locations before acquisitions, dispositions and other corporate expenditures and excludes maintenance capital and exploration capital. 2025 & 2026 development capital includes \$20-\$25 million for secondary recovery projects.
4. Exploration capital program includes capital expenditures associated with new exploration prospects.
5. Adjusted funds flow from operations is a capital management measure. Capital expenditures (also maintenance capital, development capital program and exploration capital program) and free cash flow are non-GAAP financial measures. Reinvestment rate and cumulative free cash flow per share are non-GAAP ratios. Please refer to Non-GAAP Advisory.
6. See Dividend Advisory.
7. Management's internal estimate of OOIP. Refer to OOIP Advisory.

## Slide 4

1. Maintenance capital includes all capital expenditures required to support development to offset declines and hold production flat.
2. Development capital includes capital expenditures associated with previously discovered pools/identified locations before acquisitions, dispositions and other corporate expenditures and excludes maintenance capital and exploration capital. Development capital includes costs associated with secondary recovery projects.
3. Excess free cash is calculated as adjusted funds flow from operations after maintenance capital, development capital and dividends but before exploration capital.
4. Free cash flow (or FCF) per share is a non-GAAP ratio. Please refer to Non-GAAP Advisory.
5. Total capital expenditures, maintenance capital, development capital, exploration capital and excess free cash are non-GAAP financial measures while adjusted fund flow from operations (also referred to as Funds Flow) and adjusted working capital are capital management measures. Please refer to Non-GAAP Advisory.
6. See Dividend Advisory.
7. Management's internal estimate of identified inventory locations. The majority of identified inventory are considered unbooked locations. Refer to Exploration Drilling Inventory Advisory.

## Slides 5, 6, 8, 10 & 13

Management's internal estimate of OOIP and identified inventory locations. The majority of identified inventory are considered unbooked locations. Refer to OOIP Advisory and Exploration Drilling Inventory Advisory.  
Management's internal estimate of OOIP with secondary recovery potential and sections amenable to secondary recovery.

## Slides 9, 10, 11, 12 & 13

IP: initial production rate of well, post load recovery, for a certain number of days. Refer to Initial Production Rates Advisory.

## Slide 14

1. ARO as at June 30, 2024.
2. See Dividend Advisory.

## Slide 16

1. Proved plus probable producing (P+P) reserves life index ("RLI") is calculated by dividing the P+P producing reserves by the average annual production for 2023.
2. As at June 30, 2024.
3. McCully operating cash flow includes financial derivatives. Operating cash flow including financial derivatives is a non-GAAP financial measure. Please refer to Non-GAAP Advisory.

## Forward Looking Statements Advisory

This investor presentation of Headwater Exploration Inc. ("Headwater") contains forward-looking statements and forward-looking information (collectively, "forward-looking statements") within the meaning of Canadian securities laws. All statements other than statements of historical fact are forward-looking statements. Forward-looking statements typically contain statements with words such as "anticipate", "believe", "plan", "continuous", "estimate", "expect", "may", "will", "project", "should", "guidance", "initial", "scheduled", "can", "prior to", "forecast", "future", or similar words suggesting future outcomes. In particular, this presentation contains forward-looking statements pertaining to the following: 2024 guidance including annual daily production and fourth quarter daily production (including production per share growth), capital expenditures and details of such capital expenditures, adjusted funds flow from operations, dividend payments and exit adjusted working capital; Headwater's multi-year business strategy and the expected benefits of such strategy including growing its base production while maintaining positive adjusted working capital, continuing to add incremental prospects through strategic land acquisitions and accretive M&A, continuing to implement secondary recovery providing asset duration and sustainable long-term returns and growing the quarterly dividend; Headwater's anticipated drilling locations and expected timing around exploration tests in 2024 & 2025; Headwater's exploration and development strategy, including the 2025 & 2026 financial and production forecasts contained on slide 3 of this presentation; the anticipated maintenance capital required to maintain a flat level of production; the expectation current inventory provides opportunity to grow beyond 24,000 boe/d and the expectation waterflood expansion and resulting decline mitigation will further reduce maintenance capital and increase asset duration; the expectation the Company may realize a further 20% reduction in maintenance capital requirements due to secondary recovery efforts; the expectation stacked pay allows for less full cycle capital costs and lower operational costs on a per well basis; the expectations concerning waterflood and the potential recoverable oil from secondary recovery and the number of sections amenable to secondary recovery; the expectation 90% of the core area in Marten Hills will be supported by secondary recovery by year end 2024 and the expectation a second full section pilot will be initiated in Q4 2024 in West Marten Hills SS; the intent to conduct follow up tests in both the CLWT F and CLWT G in West Nipisi in the winter of 2025; the intent to conduct a 3D seismic program and follow-up multi-well drilling program in Handel; the expected ability to conserve natural gas production in Marten Hills West following construction of a natural gas gathering system; estimated abandonment and reclamation obligations; the performance characteristics of the natural gas properties in McCully field including anticipated production, timing of operations, P+P reserves life index, average seasonal production rate, maintenance capital and abandonment and reclamation obligations; and Headwater's strategy with respect to the development of the Alberta assets including certain expected type curve and economics associated with drilling and waterflood operations. Statements relating to reserves and resources are also deemed to be forward-looking statements, as they involve the implied assessment, based on certain estimates and assumptions, that the reserves and resources described exist in the quantities predicted or estimated and that the reserves can be profitably produced in the future.

The forward-looking statements contained in this investor presentation are based on certain key expectations and assumptions made by management of Headwater including but not limited to expectations and assumptions concerning the success of optimization and efficiency improvement projects, the availability of capital, current legislation, receipt of required regulatory approval, the success of future drilling, development and waterflooding activities, the performance of existing wells, the performance of new wells, Headwater's growth strategy, general economic conditions, availability of required equipment and services, prevailing equipment and services costs and prevailing commodity prices, Canada-U.S. exchange rate, and other assumptions identified herein, including certain expectations and assumptions made by Headwater in respect thereof. Although Headwater Management believes that the expectations and assumptions on which the forward-looking statements are based are reasonable, undue reliance should not be placed on the forward-looking statements because there is no assurance that they will prove to be correct.

Since forward-looking statements address future events and conditions, by their very nature they involve inherent risks and uncertainties. Actual results could differ materially from those currently anticipated due to a number of factors and risks. These include, but are not limited to, risks associated with the oil and gas industry in general (including but not limited to operational risks in development, exploration and production; delays or changes in plans with respect to exploration or development projects, capital expenditures, acquisitions or other corporate transactions; the uncertainty of reserve estimates (including the estimates in respect of the Marten Hills assets); the uncertainty of estimates and projections relating to production, costs and expenses, and health, safety and environmental risks); inflation risks; supply chain risks; commodity price and exchange rate fluctuations; wars (including Russia-Ukraine war and the Israel-Palestine war); changes in legislation affecting the oil and gas industry; uncertainties resulting from potential delays or changes in plans with respect to exploration or development projects or capital expenditures; the risk that Headwater's annual average production in 2024, 2025 & 2026 (Development Strategy) may be less than anticipated; the risk that Headwater's financial results in 2024 may not be consistent with its guidance; the risk that Headwater's multi-year business strategy may not be successful; and the risk that a greater level of maintenance capital may be required to maintain a flat level of production. Additional information on these and other factors that could affect Headwater's operations and financial results are included in its Annual Information Form for the year ended December 31, 2023, and other reports on file with Canadian securities regulatory authorities, which may be accessed through the SEDAR+ website ([www.sedarplus.ca](http://www.sedarplus.ca)).

This investor presentation contains financial outlook and future oriented financial information (together, "FOFI") about Headwater including the Company's 2024 guidance, including its expected capital expenditures, adjusted funds flow from operations, adjusted working capital, dividend payments and exit adjusted working capital; Headwater's financial forecasts contained on slide 3 of this presentation; the anticipated maintenance capital required to maintain a flat level of production; and the anticipated maintenance capital and abandonment and reclamation obligations at Headwater's natural gas properties in McCully field. Such FOFI has been included herein to provide prospective investors with an understanding the plans and assumptions for budgeting purposes and prospective investors are cautioned that the information may not be appropriate for other purposes. Readers are cautioned that the assumptions used in the preparation of such information, although considered reasonable at the time of preparation, may prove to be imprecise and, as such, undue reliance should not be placed on any financial outlook or FOFI. Headwater's actual results, performance could differ materially from those expressed in, or implied by, these FOFI, or if any of them do so, what benefits Headwater will derive therefrom. The forward-looking statements and FOFI contained in this presentation are made as of the date hereof and the Company does not undertake any obligation to update publicly or to revise any of the included forward-looking statements or FOFI, except as required by applicable law. The forward-looking statements and FOFI contained herein are expressly qualified by this cautionary statement.

The information contained in this investor presentation does not purport to be all inclusive or to contain all information that prospective investors and shareholders may require. Prospective investors and shareholders are encouraged to conduct their own analysis and reviews of Headwater, Headwater management and the other information contained in this investor presentation. Without limitation, prospective investors and shareholders should consider the advice of their financial, legal, accounting, tax and other advisors prior to making investment decisions with respect to Headwater securities.





Advisory Relating to Development Strategy (Slide 3)

The Company has presented herein a two-year development strategy and has also presented an illustrative example of the cumulative free cash flow per share from 2025 through 2029 based on 24,000 boe/d of production. The development strategy is based on a number of assumptions as presented in such slides including, without limitation: the required reinvestment rates required to maintain production; expected results from wells drilled in the areas; expected percentage of lands under waterflood and expected recovery factors resulting from waterfloods and other enhanced oil recovery options; average production per year resulting from such strategy; expected adjusted funds flow from operations and expected free cash flow; capital expenditures per year; expectations as to commodity prices, royalty rates, production costs, general and administrative expenses and certain other assumptions. Waterflood results in development strategy are based on management's analysis and interpretation of the results from analogous waterflood projects and pilots in the greater Clearwater area including management's analysis of how such results may apply to the Company's assets. See "Type Curve information, Well Economics and Waterflood Performance" under oil and gas advisories.

The following pricing assumptions have been utilized for the 2-year Development Strategy table and the chart titled Illustrative Example of Cumulative Free Cash Flow Per Share at 24,000 boe/d on slide 3, they have also been utilized in all charts on slide 4:

		2025E	2026E	2027E	2028E	2029E
<b>WCS Differential</b>	<b>US\$/bbl</b>	<b>\$ (15.00)</b>	<b>\$ (15.00)</b>	<b>\$ (15.00)</b>	<b>\$ (15.00)</b>	<b>\$ (15.00)</b>
<b>AECO</b>	<b>Cdn\$/GJ</b>	<b>\$ 2.68</b>	<b>\$ 3.03</b>	<b>\$ 3.13</b>	<b>\$ 3.16</b>	<b>\$ 3.16</b>
<b>AGT<sup>(1)</sup></b>	<b>US\$/mmbtu</b>	<b>\$ 9.19</b>	<b>\$ 9.16</b>	<b>\$ 9.86</b>	<b>\$ 10.45</b>	<b>\$ 10.45</b>
<b>FX</b>	<b>US\$/Cdn\$</b>	<b>0.735</b>	<b>0.741</b>	<b>0.735</b>	<b>0.735</b>	<b>0.735</b>

(1) The AGT price is the average price for the winter producing months in the McCully field which include January – April and November – December of the applicable year, adjusted for the contract adder.

Such development strategy and the illustrative free cash flow model are not based on a budget or capital expenditures plan approved by the Board of Directors of the Company beyond 2024 and are not intended to present a forecast of future performance or a financial outlook. In addition, such development strategy and the illustrative free cash flow model do not represent management's expectations of the Company's future performance but rather is intended to present readers insight into management's view of the opportunities associated with the Company's assets as used by management for planning and strategy purposes based on the commodity pricing and other assumptions used for such strategy. In addition, the development strategy and the illustrative free cash flow model do not represent an estimate of reserves or resources or the future net present value of reserves or resources.

There is no certainty that the Company will proceed with all of the drilling of wells, enhanced oil recovery plans or other capital expenditures contemplated by the development strategy or as required to grow to and maintain the production levels presented in the illustrative free cash flow model and even if the Company does proceed with such plans there is no certainty that the reserves or resources recovered will match the expectations used for such strategy. All future drilling, enhanced oil recovery plan and other capital expenditures will ultimately depend upon the availability of capital, regulatory approvals, seasonal restrictions, oil and natural gas prices, costs, actual drilling results, additional reservoir information that is obtained and other factors.

There is no certainty that cash will be available for distribution to shareholders even if all assumptions are met as management and the Board of Directors of the Company have not made any decision to pay dividends or otherwise distribute cash to shareholders. Management and the Board of Directors of the Company may determine to utilize cash for other purposes if determined in the best interests of the Company to do so. See "Dividend Advisory".

The assumptions used for the development strategy and the illustrative free cash flow model presented herein are subject to a number of risks including the risks set out under the forward-looking advisory on the previous slide, the risk factors identified above and the risk factors set out in the Company's Annual Information Form for the year ended December 31, 2023, which is available on SEDAR+ at [www.sedarplus.ca](http://www.sedarplus.ca).



NON-GAAP MEASURES AND RATIOS

This investor presentation contains the terms “adjusted funds flow from operations (“AFFO”) or Atax funds flow”, “adjusted working capital”, “capital expenditures or capital program”, “free cash flow”, “operating cash flow”, “reinvestment rate”, “free cash flow per share”, “cumulative free cash flow per share” and “operating cashflow netback” which do not have standardized meanings prescribed by International Financial Reporting Standards (“IFRS” or, alternatively, “GAAP”) and therefore may not be comparable with the calculation of similar measures by other companies. The non-GAAP and other financial measures used in this presentation, defined terms outlined below, are used by Headwater as key measures of financial performance and are not intended to represent operating profits nor should they be viewed as an alternative to cash provided by operating activities or other measures of financial performance calculated in accordance with IFRS.

Capital Management Measures

Adjusted funds flow from operations or Atax fund flow (“AFFO”)

Management considers AFFO to be a key measure to assess the Company’s management of capital. In addition to being a capital management measure, AFFO is used by management to assess the performance of the Company’s oil and gas properties. Adjusted funds flow from operations is an indicator of operating performance as it varies in response to production levels and management of production and transportation costs. Management believes that by eliminating changes in non-cash working capital and adjusting for current income taxes in the period, AFFO is a useful measure of operating performance.

	Three months ended		Six months ended	
	2024	2023	2024	2023
	<i>(thousands of dollars)</i>		<i>(thousands of dollars)</i>	
Cash flows provided by operating activities	90,402	66,857	145,449	127,058
Changes in non-cash working capital	1,786	1,133	(6,414)	(7,281)
Current income taxes	(14,392)	(6,103)	(26,625)	(14,675)
Current income taxes paid	10,227	4,348	39,231	20,290
Adjusted funds flow from operations	88,023	66,235	164,469	125,392

Adjusted working capital

Adjusted working capital is a capital management measure which management uses to assess the Company’s liquidity. Financial derivative receivable/liability have been excluded as these contracts are subject to a high degree of volatility prior to settlement and relate to future production periods. Financial derivative receivable/liability are included in adjusted funds flow from operations when the contracts are ultimately realized. Management has included the effects of the repayable contribution to provide a better indication of Headwater’s net financing obligations.

	As at June 30, 2024	As at December 31, 2023
	<i>(thousands of dollars)</i>	
Working capital	72,404	78,610
Repayable contribution	(10,515)	(11,405)
Financial derivative receivable	(644)	(3,758)
Financial derivative liability	1,136	79
Adjusted working capital	62,381	63,526

Non-GAAP Financial Measures

Capital expenditures or capital program

Management utilizes capital expenditures to measure total cash capital expenditures incurred in the period. Capital expenditures represents capital expenditures – exploration and evaluation and capital expenditures – property, plant and equipment in the statement of cash flows in the Company’s interim financial statements.

	Three months ended		Six months ended	
	2024	2023	2024	2023
	<i>(thousands of dollars)</i>		<i>(thousands of dollars)</i>	
Cash flows used in investing activities	66,204	69,011	117,784	126,968
Proceeds from government grant	177	-	354	-
Change in non-cash working capital	(15,664)	(4,917)	(2,154)	6,620
Capital expenditures	50,717	64,094	115,984	133,588

Free cash flow

Management uses free cash flow for its own performance measure and to provide shareholders and potential investors with a measurement of the Company’s efficiency and its ability to generate the cash necessary to fund its future growth expenditures. Free cash flow is defined as adjusted funds flow from operations less capital expenditures before dividends.

	Three months ended		Six months ended	
	2024	2023	2024	2023
	<i>(thousands of dollars)</i>		<i>(thousands of dollars)</i>	
Adjusted funds flow from operations	88,023	66,235	164,469	125,392
Capital expenditures	(50,717)	(64,094)	(115,984)	(133,588)
Free cash flow	37,306	(2,141)	48,485	(8,196)

Operating cash flow and operating cash flow including financial derivatives

Management uses operating cash flow and operating cash flow including financial derivatives as a measure of profitability. Operating cash flow is defined as sales net of royalties, blending and transportation and production expense. Operating cash flow including financial derivatives is defined as sales net of royalties, blending and transportation and production expense plus realized gains or losses on financial derivatives.

## Non-GAAP Advisory

### Non-GAAP Ratios

#### Reinvestment Rate

Management believes the reinvestment rate is a useful measure to analyze the ratio of funds generated by the Company and used for reinvestment and is calculated as total capital expenditures divided by AFFO.

#### Free cash flow per share and cumulative free cash flow per share

Free cash flow per share and cumulative free cash flow per share are useful measures of potential shareholder return and are calculated as free cash flow or cumulative free cash flow divided by basic common shares outstanding.

#### Operating cash flow netback

Operating cash flow netback is calculated as operating cash flow divided by annual sales volumes.

## Certain Oil and Gas Advisories

### TYPE CURVE INFORMATION, WELL ECONOMICS AND WATERFLOOD PERFORMANCE

Headwater has presented certain type curve information, well economics and waterflood performance for certain development, exploration and waterflood activities in Headwater's areas of operations. The type curve information, well economics and waterflood performance presented are based on historical production in respect of Headwater's assets as well as production history from analogous developments located in close proximity to Headwater's assets. Such type curve information is useful in understanding Headwater management's assumptions of expected performance in making investment decisions in relation to development and exploration activities in Headwater's areas of operations and for determining the success of the performance of development and exploration activities; however, such type curve information, well economics and waterflood performance are not necessarily determinative of the production rates and performance of existing and future wells or waterfloods. In addition, the type curves, well economics and waterflood performance presented do not reflect the type curves or reserves estimates used by McDaniel (as defined below) in estimating the reserves volumes attributed to Headwater's assets.

### EXPLORATION LANDS

This presentation discloses Headwater's newly acquired exploration lands. All exploration lands have specifically been identified by management based on evaluation of applicable geologic, seismic, engineering, analogous information, production and reserves data on prospective acreage and geologic formations. There is no certainty that the Company will develop all or any exploration sections identified and if developed there is no certainty that such development will result in additional oil and gas reserves, resources or production. The sections on which Headwater drills wells will ultimately depend upon the availability of capital, regulatory approvals, seasonal restrictions, oil and natural gas prices, costs, actual drilling results and other factors.

### EXPLORATION DRILLING INVENTORY

This presentation discloses the drilling locations and inventory associated with certain of Headwater's exploration prospects. The majority of the drilling locations and inventory associated with Headwater's exploration prospects are considered unbooked locations. Unbooked locations are internal estimates and an assumption as to the number of wells that can be drilled per section based on industry practice and internal review. Unbooked locations do not have attributed reserves or resources. Unbooked locations have been identified by management as an estimation of our multi-year drilling activities based on evaluation of applicable geologic, seismic, engineering, production and reserves information. There is no certainty that the Company will drill all unbooked drilling locations and if drilled there is no certainty that such locations will result in additional oil and gas reserves, resources or production. The drilling locations on which the Company drills wells will ultimately depend upon the availability of capital, regulatory approvals, seasonal restrictions, oil and natural gas prices, costs, actual drilling results, additional reservoir information that is obtained and other factors. The majority of the unbooked drilling locations are associated with exploration prospects where management has less information about the characteristics of the reservoir and therefore there is more uncertainty whether wells will be drilled in such locations and if drilled there is more uncertainty that such wells will result in additional oil and gas reserves, resources or production.

### RESERVES INFORMATION

Headwater currently has reserves in the Marten Hills, Greater Peavine and Greater Nipisi areas of Alberta and the McCully Field near Sussex, New Brunswick. The reserves information contained in this presentation in respect of Headwater assets is based on an evaluation by McDaniel & Associates Consultants Ltd. ("McDaniel") of Headwater's reserves in its report dated March 6, 2024 and effective December 31, 2023, which was prepared in accordance with standards of the Canadian Oil and Gas Evaluation Handbook ("COGE Handbook") and National Instrument 51-101 – *Standards of Disclosure for Oil and Gas Activities* ("NI 51-101") and is based on the average forecast prices as at January 1, 2024, of three independent reserves evaluation firms. Additional information regarding reserves data and other oil and gas information is included in Headwater's Annual Information Form for the year ended December 31, 2023, which may be accessed through the SEDAR+ website.

Reserves are estimated remaining quantities of petroleum anticipated to be recoverable from known accumulations, as of a given date, based on the analysis of drilling, geological, geophysical, and engineering data; the use of established technology; and specified economic conditions, which are generally accepted as being reasonable. Reserves are further classified according to the level of certainty associated with the estimates and may be sub-classified based on development and production status. Proved Reserves are those quantities of petroleum, which, by analysis of geoscience and engineering data, can be estimated with reasonable certainty to be economically producible from a given date forward, from known reservoirs and under existing economic conditions, operating methods and government regulations. Proved Developed Producing Reserves (or PDP Reserves) are a subset of Proved Reserves and are Proved Reserves which are producing at the time of the reserves evaluation. Probable Reserves are those additional quantities of petroleum that are less certain to be recovered than Proved Reserves, but which, together with Proved Reserves, are as likely as not to be recovered.

## Certain Oil and Gas Advisories

### BARRELS OF OIL EQUIVALENT

The term "boe" or barrels of oil equivalent may be misleading, particularly if used in isolation. A boe conversion ratio of six thousand cubic feet of natural gas to one barrel of oil equivalent (6 Mcf: 1 bbl) is based on an energy equivalency conversion method primarily applicable at the burner tip and does not represent a value equivalency at the wellhead. Additionally, given that the value ratio based on the current price of crude oil, as compared to natural gas, is significantly different from the energy equivalency of 6:1; utilizing a conversion ratio of 6:1 may be misleading as an indication of value.

### OIL AND GAS METRICS

In presenting type curves, inputs and economics information and in this presentation generally, Headwater has used a number of oil and gas metrics which do not have standardized meanings and therefore may be calculated differently from the metrics presented by other oil and gas companies. Such metrics include "P+P producing RLI". P+P producing RLI is calculated by dividing the P+P producing reserves by the average annual production for that period. Corporate decline is calculated by the year over year reduction in the corporate production if the Company is not drilling any additional wells. Such metrics have been included herein to provide readers with additional measures to evaluate the performance of the Alberta assets or McCully assets, as applicable; however, such measures are not a reliable indicator of the future performance of Headwater's assets or value of its common shares.

### INITIAL PRODUCTION RATES ADVISORY

References in this presentation to initial production rates, other short-term production rates or initial performance measures relating to new wells are useful in confirming the presence of hydrocarbons; however, such rates are not determinative of the rates at which such wells will commence production and decline thereafter and are not indicative of long-term performance or of ultimate recovery. Additionally, such rates may also include recovered "load oil" fluids used in well completion stimulation. While encouraging, readers are cautioned not to place reliance on such rates in calculating the aggregate production for the Company. Accordingly, the Company cautions that the test results should be considered to be preliminary.

### ANALOGOUS INFORMATION

Certain information in this investor presentation may constitute "analogous information" as defined in NI 51-101, including, but not limited to, information relating to the areas in geographical proximity to Headwater's assets and production information related to wells that are believed to be on trend with Headwater's assets. Headwater Management believes the information is relevant as it helps to define the characteristics of Headwater's assets. Headwater is unable to confirm that the analogous information was prepared by a qualified reserves evaluator or auditor. Such information is not an estimate of the reserves or resources attributable to lands held or to be held by Headwater and there is no certainty that the data and economics information for the assets will be similar to the information presented herein. The reader is cautioned that the data relied upon by Headwater may not be analogous to Headwater's assets.

### OOIP ADVISORY

Original Oil-In-Place ("OOIP") is equivalent to Total Petroleum Initially-In-Place ("TPIIP") and has been estimated as of October 2024. TPIIP, as defined in the Canadian Oil and Gas Evaluations Handbook, is that quantity of petroleum that is estimated to exist in naturally occurring accumulations. It includes that quantity of petroleum that is estimated, as of a given date, to be contained in known accumulations, prior to production, plus those estimated quantities in accumulations yet to be discovered. A portion of the TPIIP is considered undiscovered and there is no certainty that any portion of such undiscovered resources will be discovered. If discovered, there is no certainty that it will be commercially viable to produce any portion of such undiscovered resources. With respect to the portion of the TPIIP that is considered discovered resources, there is no certainty that it will be commercially viable to produce any portion of such discovered resources. A significant portion of the estimated volumes of TPIIP will never be recovered. The OOIP contained in this presentation has been internally estimated by Headwater management.

### DIVIDEND ADVISORY

The amount of future cash dividends paid by the Company, if any, will be subject to the discretion of the Board and may vary depending on a variety of factors and conditions existing from time to time, including, among other things, adjusted funds from operations, fluctuations in commodity prices, production levels, capital expenditure requirements, acquisitions, debt service requirements and debt levels, operating costs, royalty burdens, foreign exchange rates and the satisfaction of the liquidity and solvency tests imposed by applicable corporate law for the declaration and payment of dividends. Depending on these and various other factors, many of which will be beyond the control of the Company, the dividend policy of the Company from time to time and, as a result, future cash dividends could be reduced or suspended entirely.

# Certain Oil and Gas Advisories

### MARKET, INDEPENDENT THIRD PARTY AND INDUSTRY DATA ADVISORY

Certain market, independent third party and industry data contained in this presentation is based upon information from government or other independent industry publications and reports or based on estimates derived from such publications and reports. Government and industry publications and reports generally indicate that they have obtained their information from sources believed to be reliable, but the Company has not conducted its own independent verification of such information. This presentation also includes certain data derived from independent third parties, including, but not limited to: maps obtained from geoSCOUT on Slides 2, 10, 11 & 12 of this presentation. While Headwater believes this data to be reliable, market and industry data is subject to variations and cannot be verified with complete certainty due to limits on the availability and reliability of raw data, the voluntary nature of the data gathering process and other limitations and uncertainties inherent in any statistical survey. The Company has not independently verified any of the data from independent third-party sources referred to in this presentation or ascertained the underlying assumptions relied upon by such sources.