



Investor Presentation

November 2024



Forward-Looking Statements

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This presentation contains projections and other forward-looking statements within the meaning of federal securities laws. These projections and statements reflect Riley Exploration Permian, Inc.'s ("Riley Permian") current views with respect to future events and financial performance. No assurances can be given, however, that these events will occur or that these projections will be achieved, and actual results could differ materially from those projected as a result of certain factors. A discussion of these factors is included in Riley Permian's periodic reports filed with the U.S. Securities and Exchange Commission ("SEC").

All statements, other than historical facts, that address activities that Riley Permian assumes, plans, expects, believes, intends or anticipates (and other similar expressions) will, should or may occur in the future are forward-looking statements. The forward-looking statements are based on management's current beliefs, based on currently available information, as to the outcome and timing of future events, including the volatility of oil, natural gas and NGL prices; regional supply and demand factors, any delays, curtailment delays or interruptions of production, and any governmental order, rule or regulation that may impose production limits; cost and availability of gathering, pipeline, refining, transportation and other midstream and downstream activities; severe weather and other risks that lead to a lack of any available markets; our ability to successfully complete mergers, acquisitions and divestitures; the inability or failure of the Company to successfully integrate the acquired assets into its operations and development activities; the potential delays in the development, construction or start-up of planned projects; failure to realize any of the anticipated benefits of our joint ventures or other equity investments; risks relating to our operations, including development drilling and testing results and performance of acquired properties and newly drilled wells; any reduction in our borrowing base on our revolving credit facility from time to time and our ability to repay any excess borrowings as a result of such reduction; the impact of our derivative strategy and the results of future settlement; our ability to comply with the financial covenants contained in our credit agreement; conditions in the capital, financial and credit markets and our ability to obtain capital needed for development and exploration operations on favorable terms or at all; the loss of certain tax deductions; risks associated with executing our business strategy, including any changes in our strategy; inability to prove up undeveloped acreage and maintain production on leases; risks associated with concentration of operations in one major geographic area; legislative or regulatory changes, including initiatives related to hydraulic fracturing, emissions, and disposal of produced water, which may be negatively impacted by regulation or legislation; the ability to receive drilling and other permits or approvals and rights-of-way in a timely manner (or at all), which may be restricted by governmental regulation and legislation; restrictions on the use of water, including limits on the use of produced water and a moratorium on new produced water well permits recently imposed by the RRC in an effort to control induced seismicity in the Permian Basin; changes in government environmental policies and other environmental risks; the availability of drilling equipment and the timing of production; tax consequences of business transactions; public health crisis, such as pandemics and epidemics, and any related government policies and actions and the effects of such public health crises on the oil and natural gas industry, pricing and demand for oil and natural gas and supply chain logistics; general domestic and international economic, market and political conditions, including the military conflict between Russia and Ukraine, the Israel-Hamas conflict and the global response to such conflicts; risks related to litigation; and cybersecurity threats, technology system failures and data security issues. These forward-looking statements involve certain risks and uncertainties that could cause the results to differ materially from those expected by the management of Riley Permian.

These forward-looking statements involve significant risks and uncertainties that could cause actual results to differ materially from those anticipated, including, but not limited to, the risk that Riley Permian may reduce, suspend or totally eliminate dividend payments in the future, whether variable or fixed, due to insufficient liquidity or other factors, potential adverse reactions or changes to the business or operations of Riley Permian resulting from the recently completed merger, including Riley Permian's future financial condition, results of operations, strategy and plans; changes in capital markets and the ability of Riley Permian to finance operations in the manner expected; the risks of oil and gas activities; and the fact that operating costs and business disruption may be greater than expected following the consummation of the merger.

Riley Permian encourages readers to consider the risks and uncertainties associated with projections and other forward-looking statements. In addition, Riley Permian assumes no obligation to publicly revise or update any forward-looking statements based on future events or circumstances.

For additional discussion of the factors that may cause us not to achieve our financial projections and/or production estimates, see Riley Permian's filings with the SEC, including its forms 10-K, 10-Q and 8-K and any amendments thereto. We do not undertake any obligation to release publicly the results of any future revisions we may make to this prospective data or to update this prospective data to reflect events or circumstances after the date of this presentation. Therefore, you are cautioned not to place undue reliance on this information.

None of the information contained in this presentation has been audited by any independent auditor. This presentation is prepared as a convenience for securities analysts and investors and may be useful as a reference tool. Riley Permian may elect to modify the format or discontinue publication at any time, without notice to securities analysts or investors.

Use of non-GAAP Financial Information

This presentation includes certain financial measures that are not calculated in accordance with U.S. generally accepted accounting principles ("GAAP"). These measures include (i) Adjusted Net Income, (ii) Adjusted EBITDAX, (iii) Cash Margins, and (iv) Free Cash Flow. These non-GAAP financial measures are not measures of financial performance prepared or presented in accordance with GAAP and may exclude items that are significant in understanding and assessing our financial results. Therefore, these measures should not be considered in isolation, and users of any such information should not place undue reliance thereon. See the Company's website, www.rileypermian.com, for the descriptions and reconciliations of non-GAAP measures presented in this presentation to the most directly comparable financial measures calculated in accordance with GAAP.

Oil & Gas Reserves

The SEC generally permits oil and natural gas companies, in filings made with the SEC, to disclose proved reserves, which are reserve estimates that geological and engineering data demonstrate with reasonable certainty to be recoverable in future years from known reservoirs under existing economic and operating conditions, and certain probable and possible reserves that meet the SEC's definitions for such terms. In this presentation, Riley Permian may use the terms "resource potential," "resource play," "estimated ultimate recovery," or "EURs," "type curve" and "standardized measure," each of which the SEC guidelines restrict from being included in filings with the SEC without strict compliance with SEC definitions. These terms refer to Riley Permian's internal estimates of unbooked hydrocarbon quantities that may be potentially discovered through exploratory drilling or recovered with additional drilling or recovery techniques. "Resource potential" is used by Riley Permian to refer to the estimated quantities of hydrocarbons that may be added to proved reserves, largely from a specified resource play potentially supporting numerous drilling locations. A "resource play" is a term used by Riley Permian to describe an accumulation of hydrocarbons known to exist over a large areal expanse and/or thick vertical section potentially supporting numerous drilling locations, which, when compared to a conventional play, typically has a lower geological and/or commercial development risk. "EURs" are based on Riley Permian's previous operating experience in a given area and publicly available information relating to the operations of producers who are conducting operations in these areas. Unbooked resource potential or "EURs" do not constitute reserves within the meaning of the Society of Petroleum Engineer's Petroleum Resource Management System or SEC rules and do not include any proved reserves. Actual quantities of reserves that may be ultimately recovered from Riley Permian's interests may differ substantially from those presented herein. Factors affecting ultimate recovery include the scope of Riley Permian's ongoing drilling program, which will be directly affected by the availability of capital, decreases in oil, natural gas liquids and natural gas prices, well spacing, drilling and production costs, availability and cost of drilling services and equipment, lease expirations, transportation constraints, regulatory approvals, negative revisions to reserve estimates and other factors, as well as actual drilling results, including geological and mechanical factors affecting recovery rates. "EURs" from reserves may change significantly as development of Riley Permian's core assets provides additional data. In addition, Riley Permian's production forecasts and expectations for future periods are dependent upon many assumptions, including estimates of production decline rates from existing wells and the undertaking and outcome of future drilling activity, which may be affected by significant commodity price declines or drilling cost increases. "Type curve" refers to a production profile of a well, or a particular category of wells, for a specific play and/or area.

Corporate Overview and Strategy

Riley Permian is a growth-oriented energy company with operations in Texas and New Mexico

Our oil-focused and capital efficient asset base enables optionality on our corporate investment allocation:

1. Reinvesting close to **half of our corporate cash** flow during 2024 into our upstream business while still achieving **production growth**
2. Investing in infrastructure projects such as **electric power** that we believe can optimize our business, provide a hedge for gas prices and offer attractive rates of return on investment
3. Returning **excess capital to shareholders** through base dividends⁽¹⁾, and to our balance sheet for liquidity management

3Q24 Production	23.4 Mboe/d
Equity Market Cap ⁽¹⁾	~\$570MM
Enterprise Value ⁽²⁾	~\$860MM
Last Twelve Months Free Cash Flow ⁽³⁾	~\$133MM
Debt Leverage ⁽⁴⁾	~1.07x
Dividend Yield ⁽¹⁾	5.7%
Insider Ownership ⁽⁵⁾	25%

(1) Equity Market Cap and Dividend Yield based on share price as of 11/4/24 and shares outstanding as of 11/1/24. Future dividends subject to approval by the Board of Directors

(2) Enterprise Value based on share price as of 11/4/24 and shares outstanding as of 11/1/24 and debt and cash balance as of 9/30/24

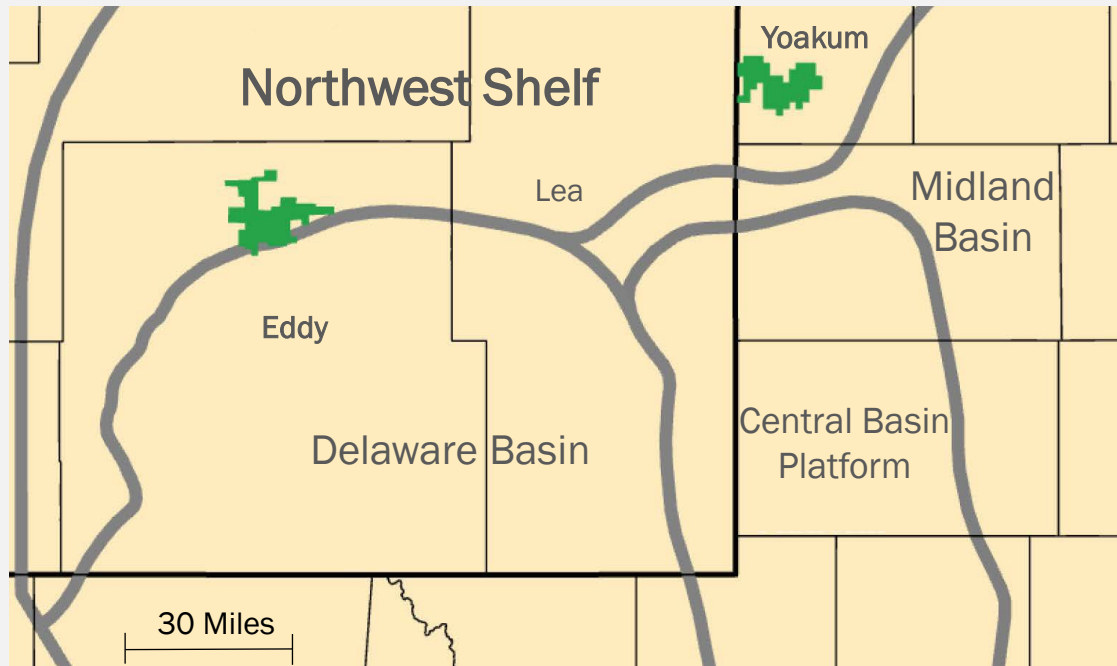
(3) A non-GAAP financial measure as defined and reconciled in the supplemental financial tables available on the Company's website at www.rileypermian.com

(4) Leverage based on principal debt balance as of 9/30/24 divided by Last Twelve Months Adjusted EBITDAX

(5) Source: SEC Filings. Insiders include Yorktown, Management and the Board of Directors

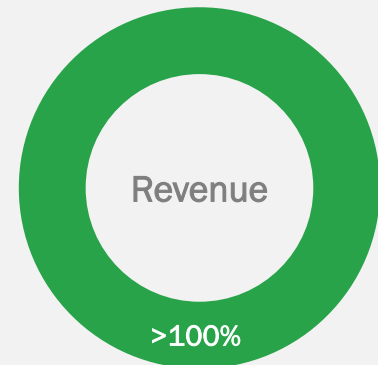
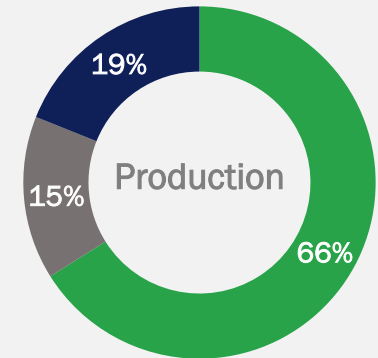
Oil-Focused, Permian Asset Base

1. **Business focus:** applying modern horizontal drilling and completions techniques to oil-saturated and liquids-rich formations
2. **Regional focus:** Northwest Shelf of the Permian Basin
 - Two core assets in West Texas and Southeast New Mexico correspond with a similar geologic setting



3Q24 Commodity Splits

■ Oil ■ Natural Gas ■ NGL

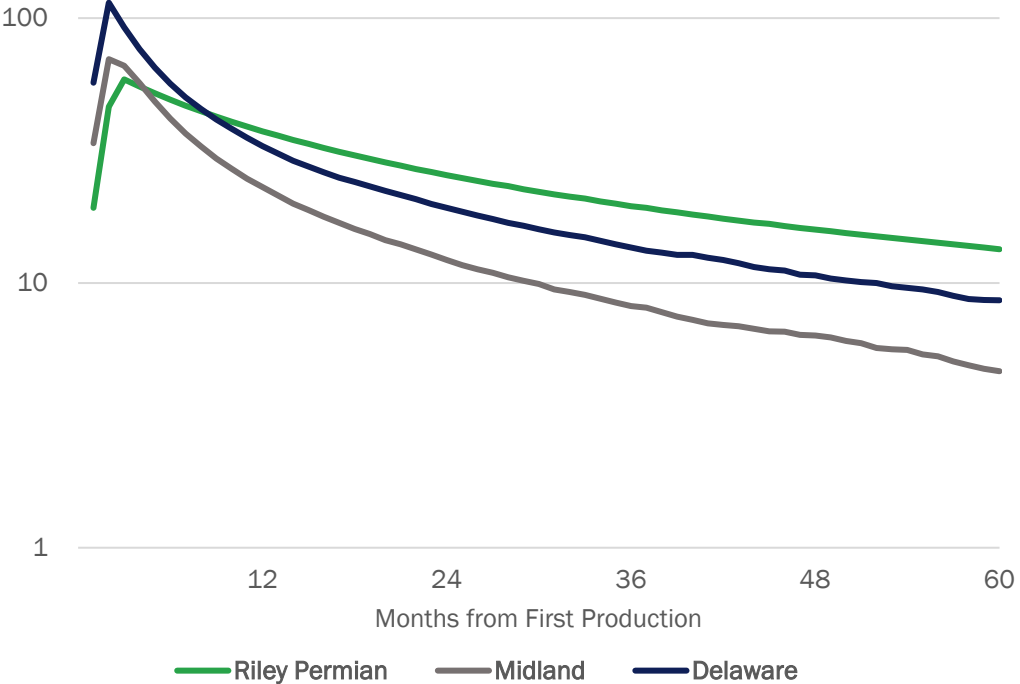


Riley's Assets Compete with Core Permian on Productivity

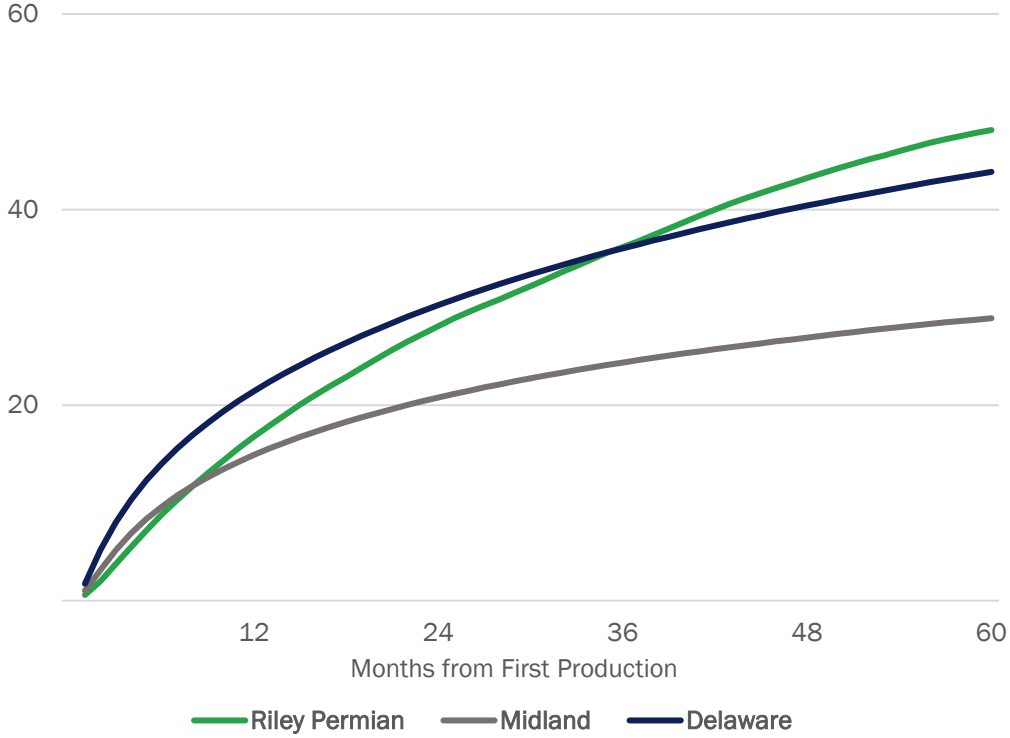
Riley's wells to date have experienced lower relative declines versus Delaware and Midland basin wells

Riley's wells to date have outperformed Midland and Delaware basin wells on a 5-year basis

Oil Production Rates over Time
Bbls/d per 1,000' of Lateral Length



Cumulative Oil Production over Time
Bbls Produced per Foot of Lateral Length



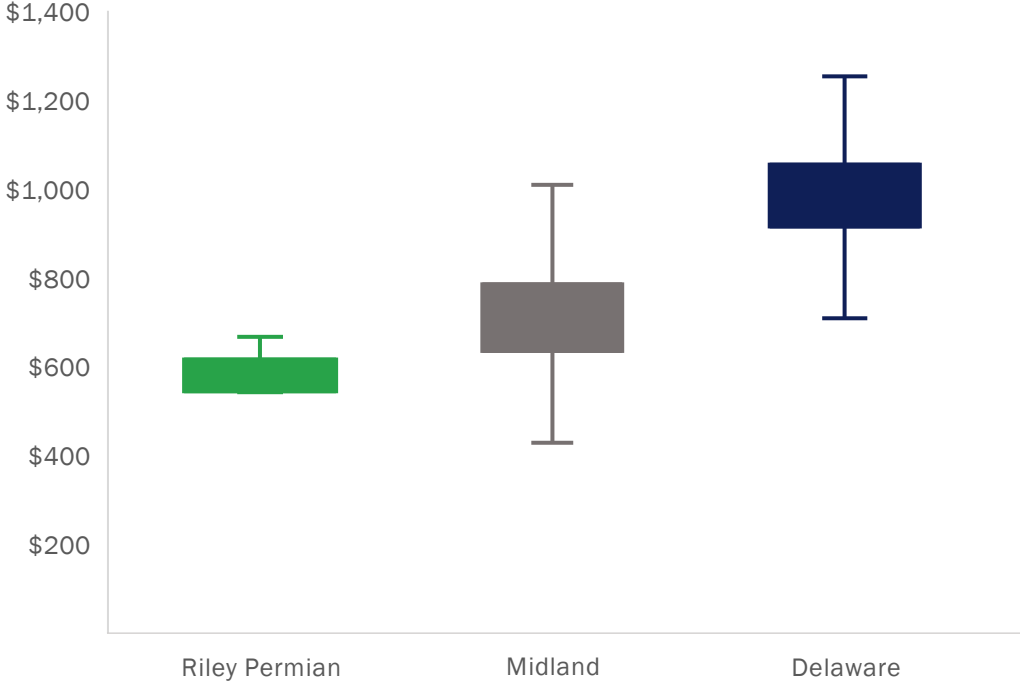
Note: Riley Permian, Midland Basin, and Delaware Basin well characteristics are a composite of horizontal wells with first production from 2019-2024. Sourced from Enverus

Riley's Assets Compete with Core Permian on Economics

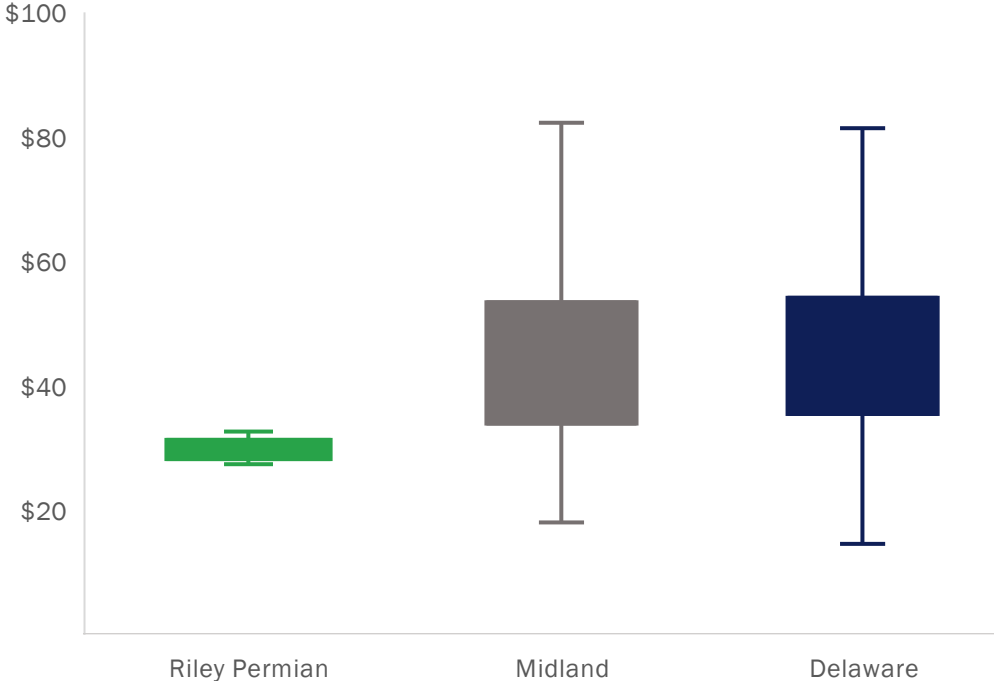
Riley's wells costs on an absolute and relative basis are lower than average Delaware and Midland basin wells

The combination of higher productivity and lower well costs can lead to significantly lower breakeven costs

2024 Vintage Average Well Costs
\$ per Foot of Lateral Length



Forecasted PV10 Breakeven
\$/Bbl with 20:1 WTI:HH



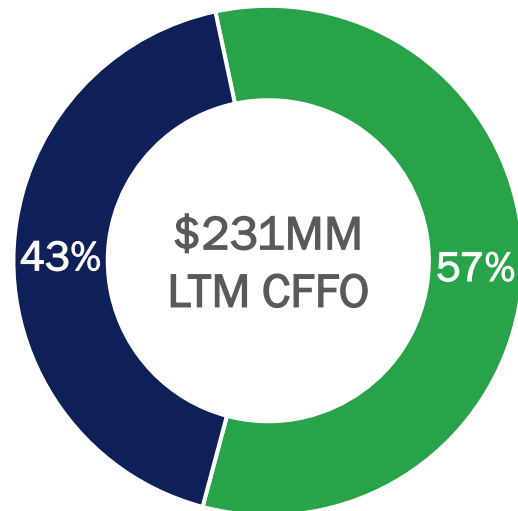
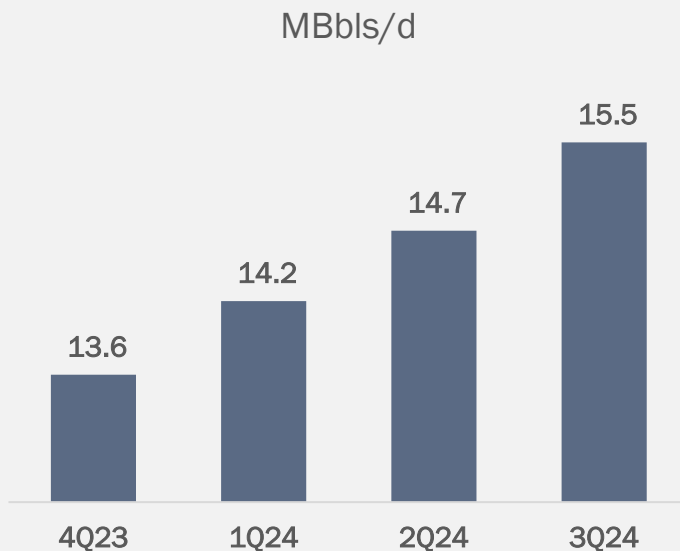
Note: Riley Permian, Midland Basin, and Delaware Basin well characteristics are a composite of horizontal wells with first production from 2024 and limited to a lateral length of > 5,000 ft. Data sourced from Enverus

Balanced Capital Allocation

Reinvestment in Upstream Development for Volume Growth

43% reinvestment rate for LTM

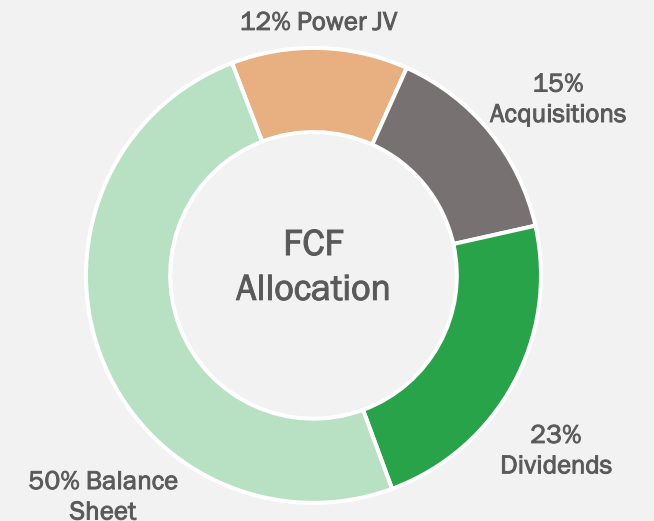
Achieving Q/Q production *volume growth* with a disciplined *reinvestment rate* and the contribution of a 2024 acquisition



Excess FCF Allows for Optionality

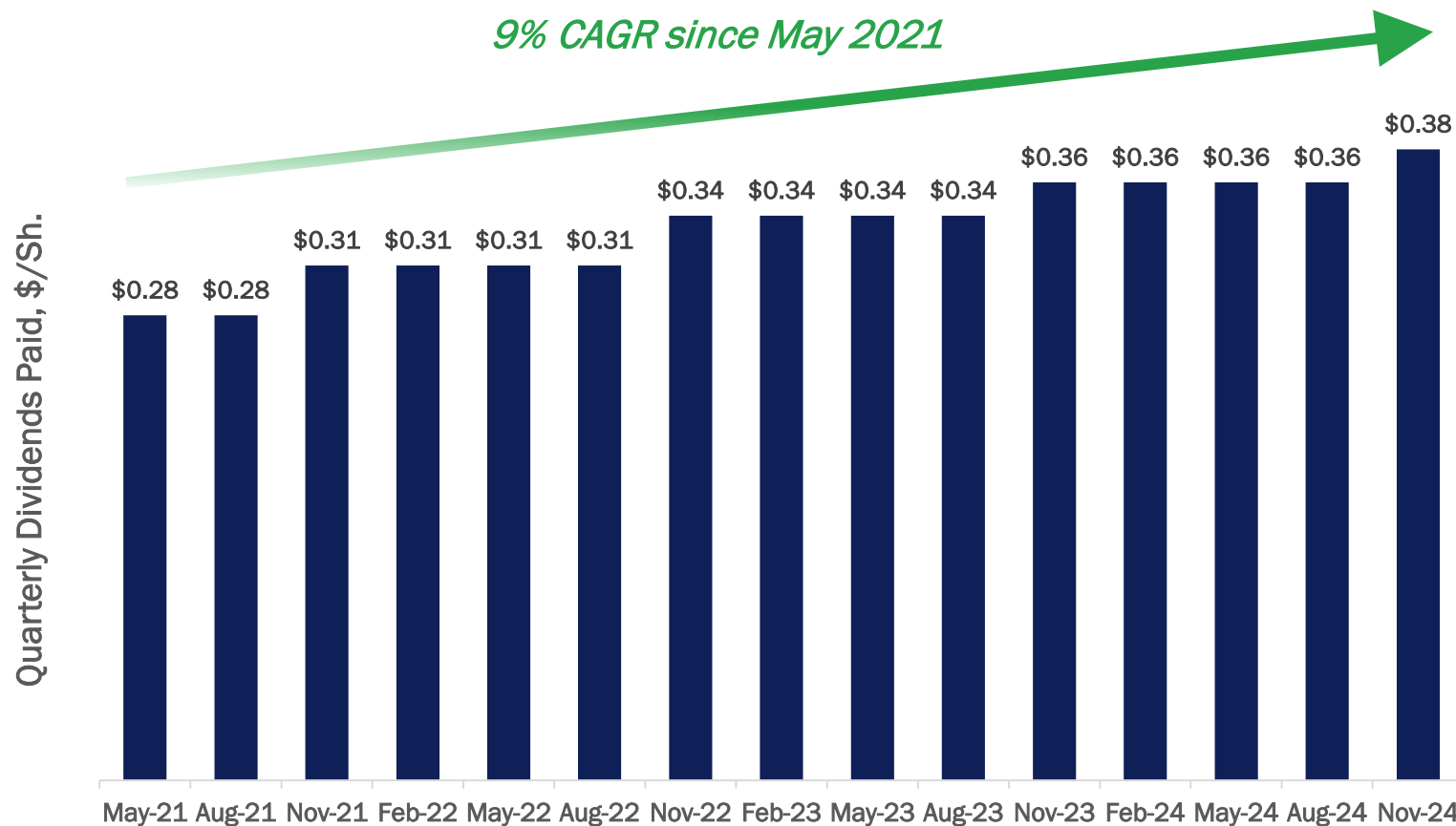
57% FCF conversion rate for LTM

Invested over the past year in our power joint venture and a small acquisition, with additional allocation to *dividends* and balance sheet management



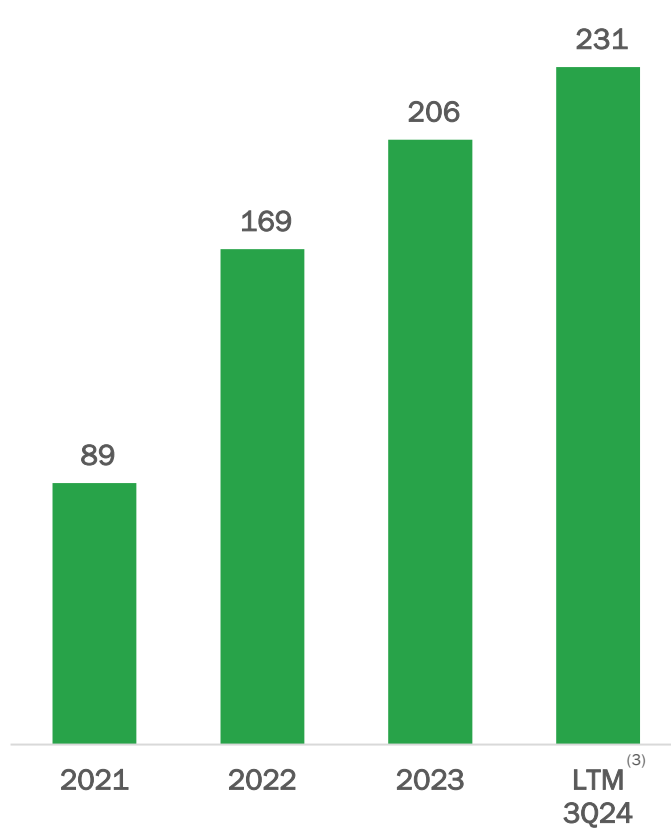
Track Record of Direct Return of Capital

- 1 History of paying fixed dividends every quarter as a public company
- 2 History of raising dividends annually
- 3 5.7% current dividend yield as of November 4, 2024
- 4 4x dividend coverage from FCF

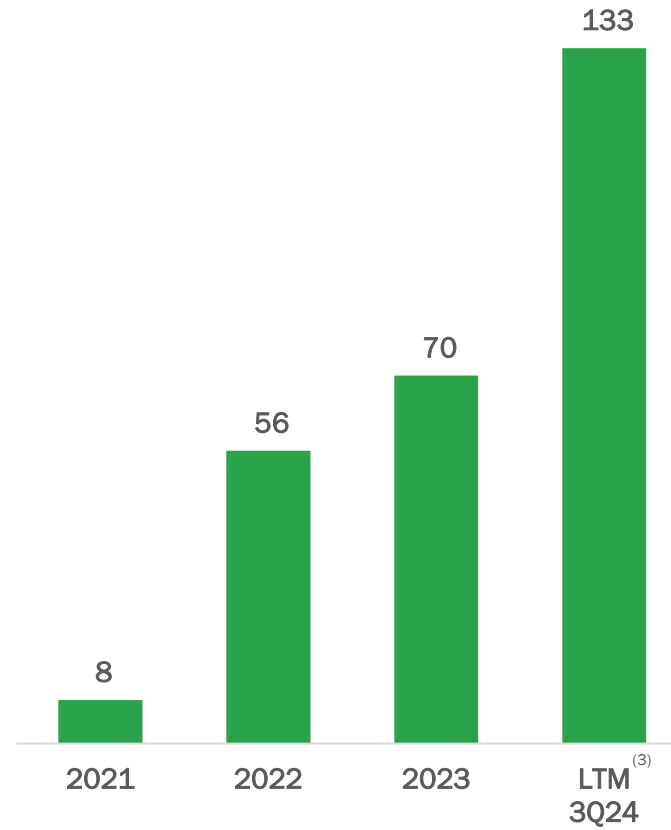


Track Record of Growth

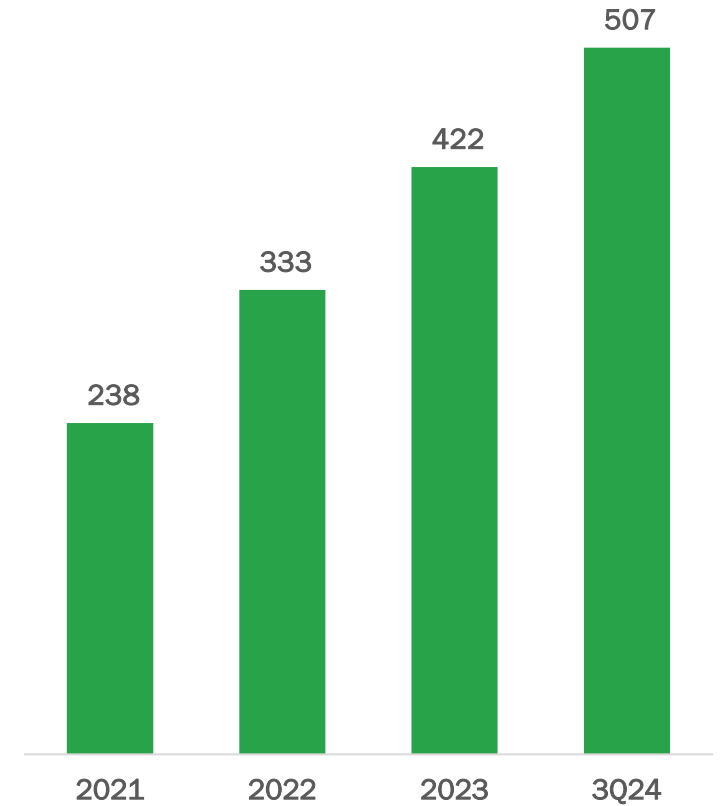
CFFO⁽¹⁾ \$MM



FCF⁽²⁾ \$MM



Shareholders' Equity \$MM



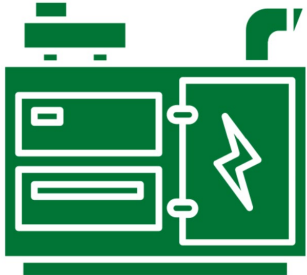
(1) Cash Flows from Operations before the impact of changes in working capital

(2) A non-GAAP financial measure as defined and reconciled in the supplemental financial tables available on the Company's website at www.rileyperman.com

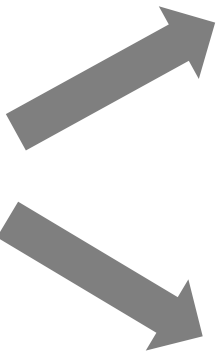
(3) Last Twelve Months

Power Generation Initiatives

Investing in electric power initiatives that we believe can optimize our business, provide a hedge for gas prices and offer attractive rates of return on investment



RPC Power LLC
(50/50 JV between Riley Permian and Conduit LLC)



Self-consume to power Texas field operations



Sell to Texas grid operator for use by third parties

Power Generation Initiatives (Cont'd.)

	Self-Consume for REPX Operations	Sell to the Grid
REPX Objectives	<ul style="list-style-type: none"> Utilize in-basin, lower-cost natural gas for thermal power generation Improve reliability for operations Stabilize cost of power Earn attractive returns on investment capital 	<ul style="list-style-type: none"> Capitalize on market dynamics including abundant, associated natural gas production, gas midstream egress limitations and shortfalls of dispatchable, reliable power Achieve value uplift for our natural gas sold Diversify revenue mix and invest in power markets with attractive fundamentals Earn attractive returns on investment capital
Generation Capacity	<ul style="list-style-type: none"> 20MW of installed, nameplate capacity Primarily thermal generation with potential for battery storage backup 	<ul style="list-style-type: none"> 100MW planned Mix of thermal generation and battery storage
Status	<ul style="list-style-type: none"> Completed official installation during 3Q24 Continuing to transfer portions of Riley Permian load to RPC during 4Q24 	<ul style="list-style-type: none"> Conducting siting, permitting, interconnection agreements and equipment procurement The facilities are targeted for commercial operations beginning in the second half of 2025



3Q24 Results Summary

Highlights from 3Q24 Earnings Release

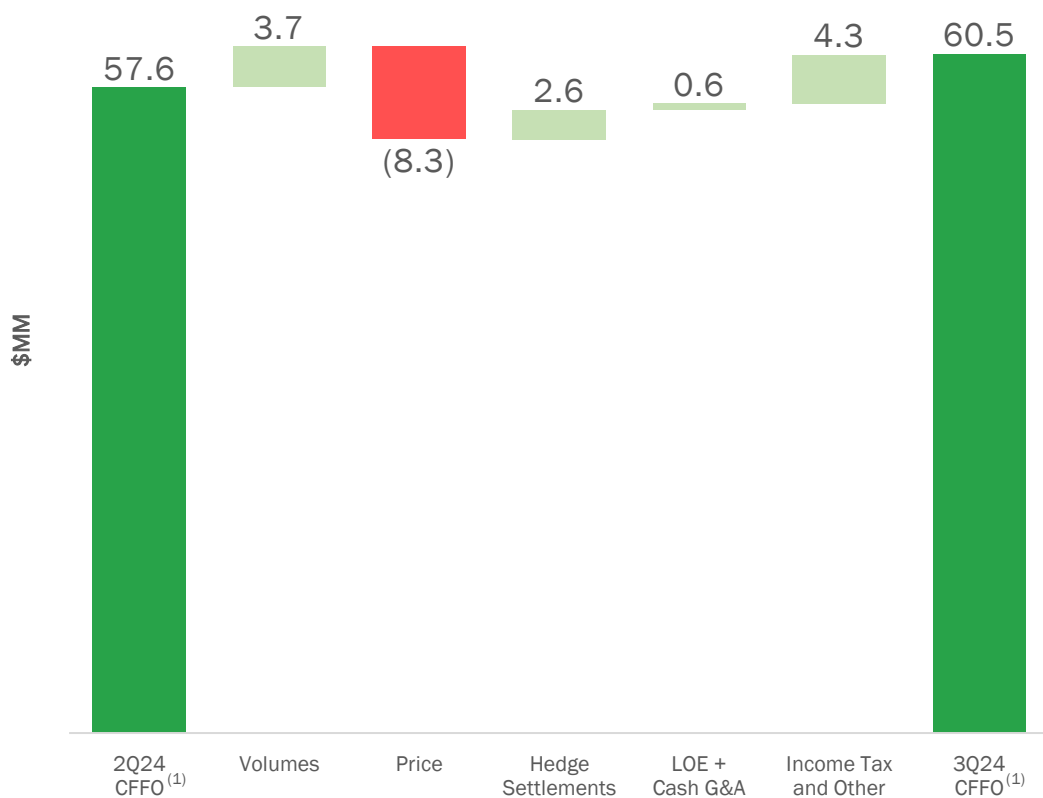
1	Production	2	Cash Flow	3	Reinvestment	4	FCF Conversion
	Increased oil production by 5% Q/Q to 15.5MBbls/d with total production of 23.4MBoe/d		Generated \$61MM of CFFO and \$72MM of Adjusted EBITDAX (70% margin)		Reinvested 50% of CFFO into capital expenditures on an accrual basis and 38% on a cash basis		Converted 62% of CFFO to FCF for \$38MM in 3Q24 (based on cash capital expenditures)

5	FCF Yield	6	Shareholder Return	7	Debt Reduction	8	Investment
	Generated \$133MM of LTM FCF for 23% yield on equity market capitalization		Allocated 22% of FCF to direct shareholder return through dividends (5.7% annualized yield)		Reduced debt by \$35MM (1.07x principal value of debt to LTM Adjusted EBITDAX)		Progressing on power generation activity both for self-use and sales to the grid

Drivers of Quarter-over-Quarter Growth

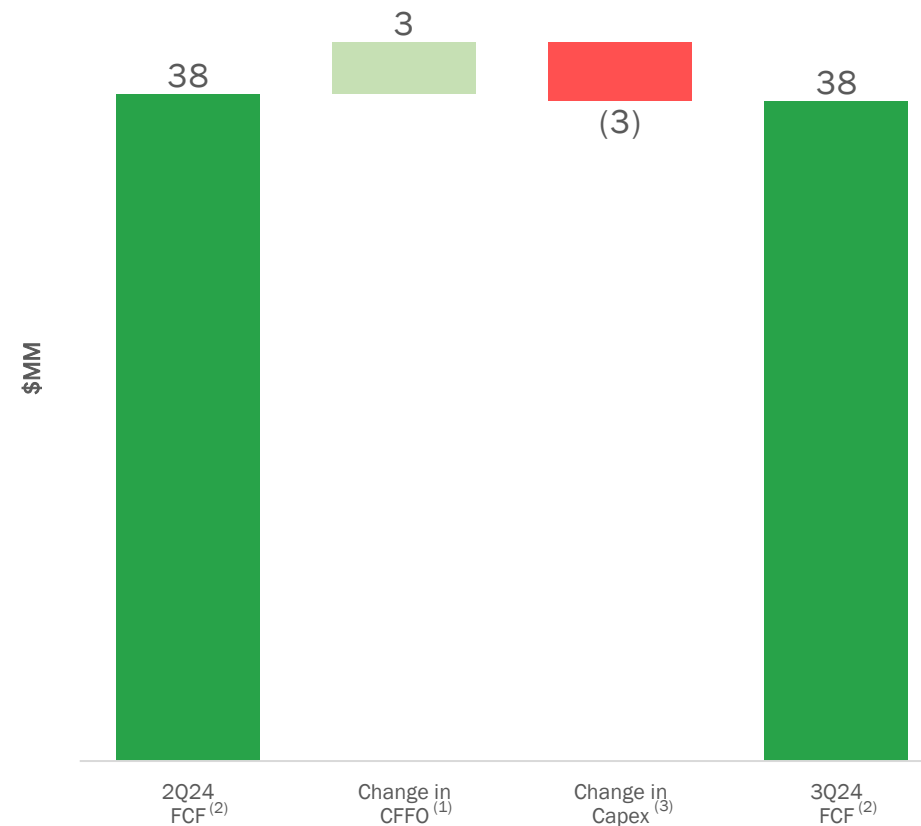
Cash Flow From Operations (CFFO)⁽¹⁾
Q/Q: 3 Months Ending 9/30/24 vs 6/30/24

5% increase Q/Q despite lower pricing



Free Cash Flow (FCF)⁽²⁾
Q/Q: 3 Months Ending 9/30/24 vs 6/30/24

Flat Q/Q despite increased development activity and corresponding capex⁽³⁾



(1) Cash Flow From Operations before the impact of changes in working capital

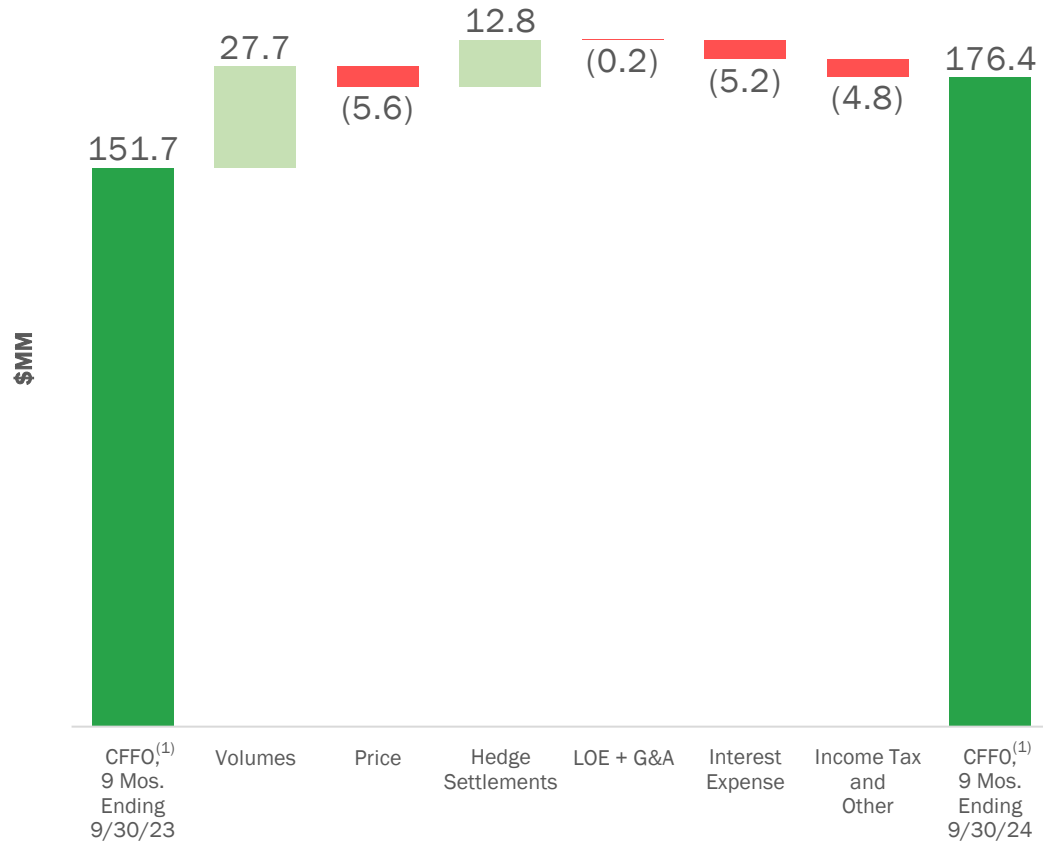
(2) A non-GAAP financial measure as defined in the supplemental financial tables available on the company's website at www.rileypermian.com

(3) E&P Cash Capex; Excludes acquisitions and contributions to equity method investments (Power JV)

Drivers of Year-over-Year Growth

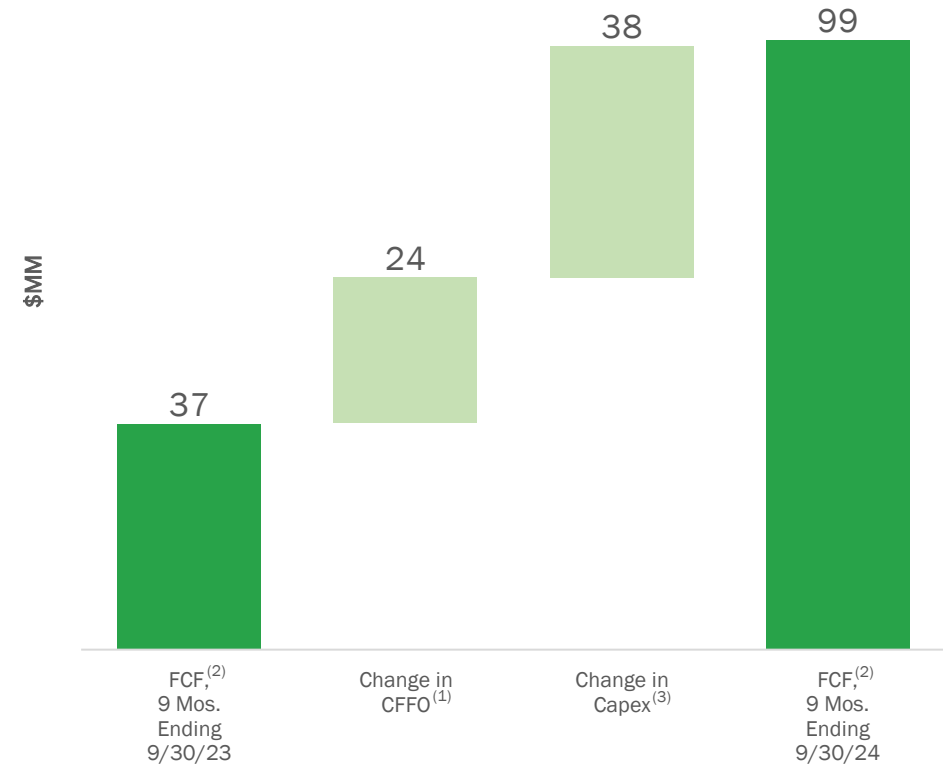
Cash Flow From Operations (CFFO)⁽¹⁾ Y/Y: 9 Months Ending 9/30/24 vs 9/30/23

16% increase driven primarily by production and improved hedge settlements



Free Cash Flow (FCF)⁽²⁾ Y/Y: 9 Months Ending 9/30/24 vs 9/30/23

169% growth Y/Y⁽³⁾



(1) Cash Flow From Operations before the impact of changes in working capital

(2) A non-GAAP financial measure as defined in the supplemental financial tables available on the company's website at www.rileypermian.com

(3) E&P Cash Capex; Excludes acquisitions and contributions to equity method investments (Power JV)



Appendix

4Q24 Guidance

Forecasting ~15% Y/Y oil volume growth while reducing Y/Y capex by ~16%, based on midpoint 4Q24 Guidance

Activity, Production, and Investing Guidance

		4Q24
Gross Operated Well Activity		
Drilled	#	7 - 9
Completed	#	3 - 5
Turned to Sales	#	4 - 6
Net Production		
Total	MBoe/d	23.5 - 24.5
Oil	MBbls/d	15.5 - 16.1
Investing Expenditures by Category (Accrual)⁽¹⁾		
Drilling, Completion & Capitalized Workovers	\$MM	18 - 21
Infrastructure and Other	\$MM	14 - 21
Total E&P Capex	\$MM	32 - 42
Power JV Investment	\$MM	0 - 1
Total Investments	\$MM	32 - 43

Quarterly Detail for Estimated Realizations and Cost Guidance

		4Q24
Operating and Corporate Costs		
LOE & Workover Expense	\$/Boe	8.00 - 9.00
Severance & Ad Valorem Tax	% of revenue	6% - 8%
Cash G&A ⁽²⁾	\$/Boe	2.50 - 3.00
Interest Expense ⁽³⁾	\$MM	7.5 - 8.5
Income Tax Cash Payment ⁽⁴⁾	\$MM	1.5 - 2.5

(1) Activity-based investing expenditures before acquisitions

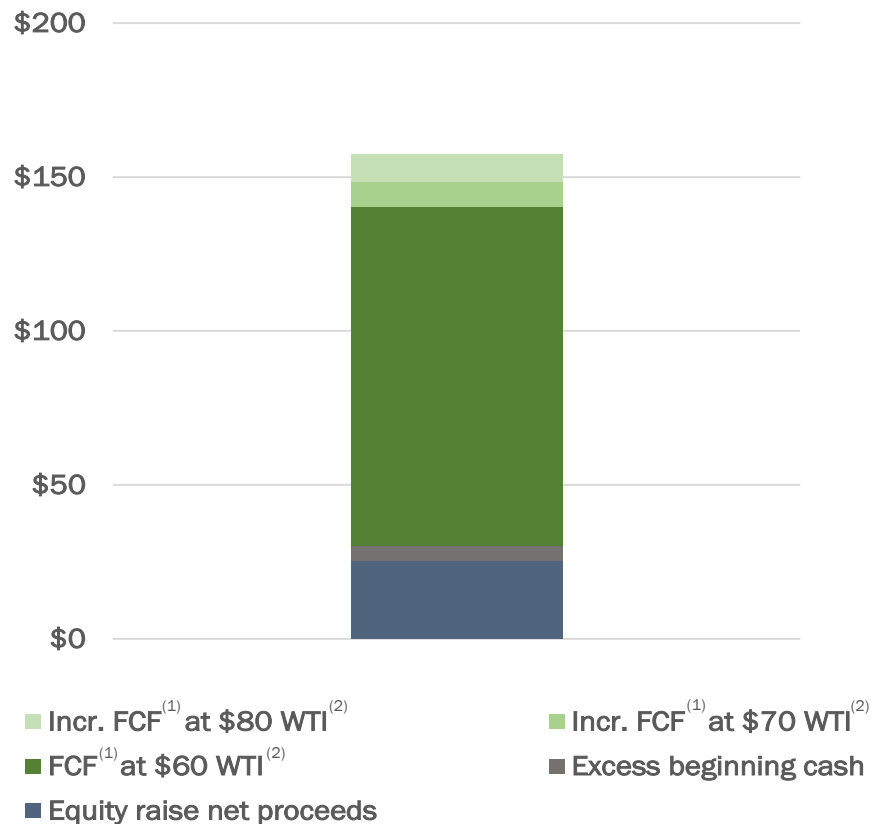
(2) A non-GAAP financial measure as defined and reconciled in the supplemental financial tables available on the Company's website at www.rileypermian.com

(3) Interest expense is net of interest rate derivative settlements

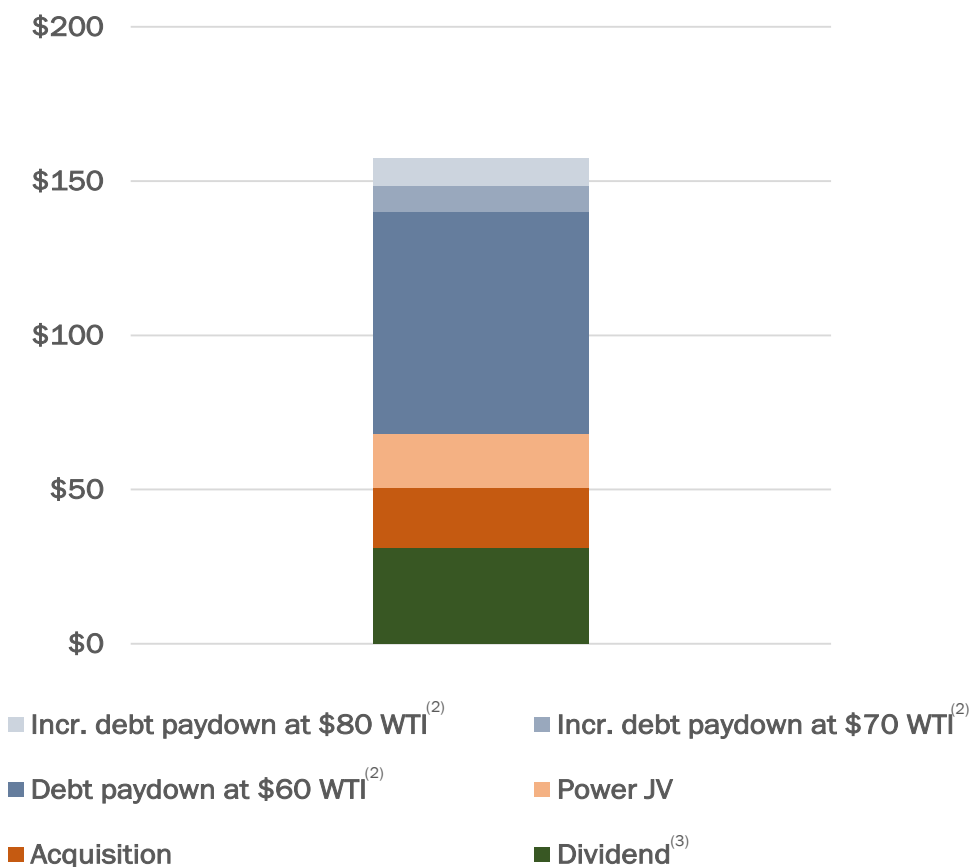
(4) Guidance is based on \$70-80/Bbl WTI, West Texas Intermediate, for the remainder of 2024

2024 Forecasted Sources and Uses of Capital

Sources of Capital \$MM



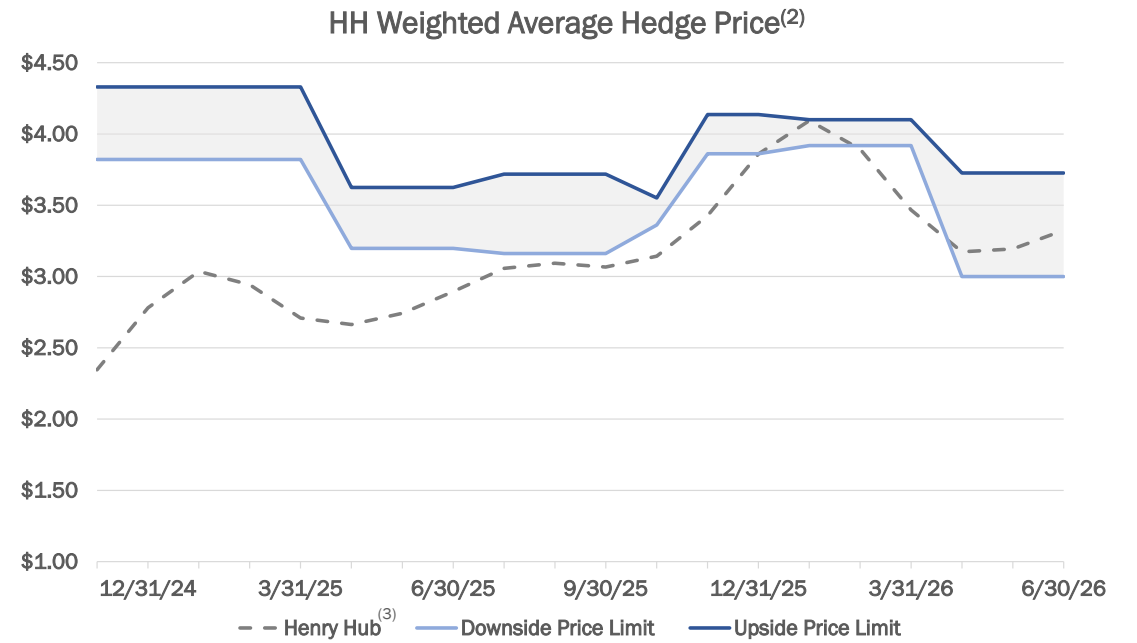
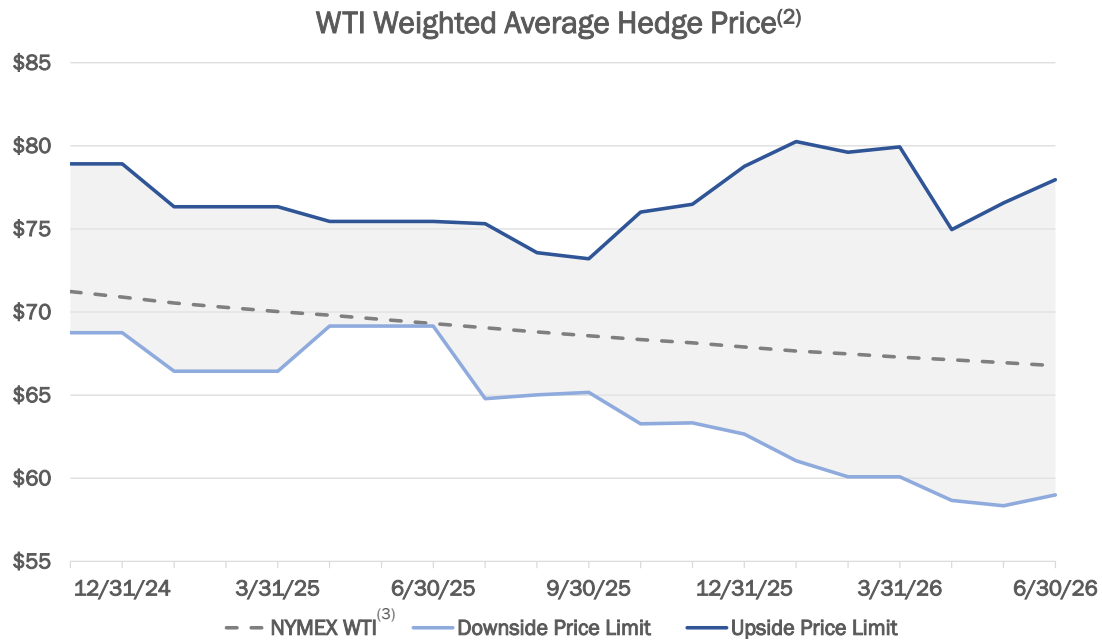
Uses of Capital \$MM



Hedging Program Summary

Hedging Strategy: protect downside, meet debt convent obligations, reduce volatility and maintain upside exposure

Metric	Oil (WTI)	Natural Gas (HH)
Hedge % - Forward 12 Months ⁽¹⁾	45%	44%
% Mix of Swaps vs Collars – Forward 12 Months	36% Swaps 64% Collars	54% Swaps 46% Collars
Weighted Average Floor x Ceiling Price ⁽²⁾	\$67 x \$76	\$3.47 x \$3.94



(1) Production based on 4Q24 Midpoint Guidance for Oil; 3Q24 Actual Production for Natural Gas
 (2) Includes swaps and collars
 (3) Based on Forward Strip as of 11/4/24

Hedging Summary Positions as of 11/1/24

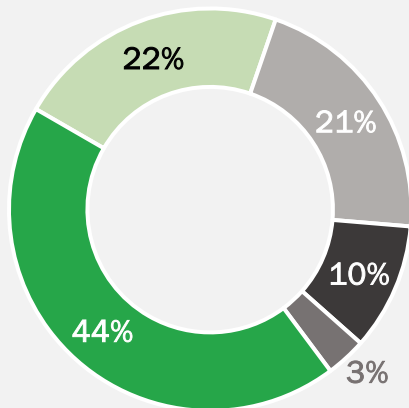
Calendar Quarters	2024				2025				2026			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
CRUDE OIL												
Fixed Swap - Volume, Bbls/Qtr	210,000	465,000	455,000	435,000	315,000	285,000	45,000	-	-	-	-	-
Weighted Average Price, \$/Bbl	\$73.54	\$74.76	\$74.91	\$74.90	\$75.29	\$71.96	\$72.65	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Collars - Volume, Bbls/Qtr	520,000	390,000	366,000	390,000	468,000	300,000	452,000	480,000	456,000	361,000	-	-
Weighted Average Floor Price, \$/Bbl	\$61.41	\$61.08	\$61.00	\$61.92	\$60.48	\$66.50	\$64.23	\$63.10	\$60.41	\$58.61	\$0.00	\$0.00
Weighted Average Ceiling Price, \$/Bbl	\$84.00	\$85.76	\$83.61	\$83.39	\$77.04	\$78.77	\$74.19	\$77.07	\$79.94	\$76.21	\$0.00	\$0.00
Total Oil Price Hedges, Bbls/Qtr	730,000	855,000	821,000	825,000	783,000	585,000	497,000	480,000	456,000	361,000	-	-
Downside Weighted Average Price, \$/Bbl	\$64.90	\$68.52	\$68.71	\$68.76	\$66.44	\$69.16	\$64.99	\$63.10	\$60.41	\$58.61	\$0.00	\$0.00
CRUDE OIL BASIS												
Mid/Cush Basis Swaps - Volume, Bbls/Qtr	330,000	330,000	330,000	330,000	-	-	-	-	-	-	-	-
Weighted Average Price, \$/Bbl	\$0.97	\$0.97	\$0.97	\$0.97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
NATURAL GAS												
Swaps - Volume, MMBtu/Qtr	750,000	600,000	600,000	510,000	465,000	495,000	315,000	600,000	555,000	-	-	-
Weighted Average Price, \$/MMBtu	\$3.48	\$3.21	\$3.21	\$3.62	\$3.89	\$3.34	\$3.28	\$3.77	\$4.02	\$0.00	\$0.00	\$0.00
Collars - Volume, MMBtu/Qtr	300,000	405,000	405,000	405,000	405,000	330,000	510,000	200,000	225,000	750,000	750,000	250,000
Weighted Average Floor Price, \$/MMBtu	\$3.40	\$3.01	\$3.01	\$3.50	\$3.74	\$2.98	\$3.09	\$3.45	\$3.67	\$3.00	\$3.00	\$3.00
Weighted Average Ceiling Price, \$/MMBtu	\$4.50	\$3.68	\$3.68	\$4.45	\$4.84	\$4.05	\$3.99	\$4.43	\$4.30	\$3.73	\$3.73	\$3.73
Total NG Price Hedges, MMBtu/Qtr	1,050,000	1,005,000	1,005,000	915,000	870,000	825,000	825,000	800,000	780,000	750,000	750,000	250,000
Downside Weighted Average Price, \$/MMBtu	\$3.46	\$3.12	\$3.12	\$3.57	\$3.82	\$3.20	\$3.16	\$3.69	\$3.92	\$3.00	\$3.00	\$3.00
INTEREST RATE												
Swaps - Notional Volume (000's)	\$ -	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ -	\$ -
1-Month Term SOFR	0%	3.09%	3.09%	3.09%	3.09%	3.09%	3.09%	3.09%	3.09%	3.09%	0%	0%
1-Month Term SOFR (Short)		4.91%	4.91%	4.91%								
Locked in Premium ⁽¹⁾		1.82%	1.82%	1.82%								

Note: Q3 2024 derivative positions shown include all contracts that have settled as of 11/1/24

(1) Entered into offsetting position to lock in ~\$1MM gain on interest rate swaps

Equity Ownership and Research Analyst Coverage

Equity Ownership



>5% Holders & Insiders as of 11/1/24 ⁽¹⁾	Shares (MM)	Ownership %
Yorktown Energy Partners ⁽²⁾	4.7	22%
Bluescape Energy Partners	4.5	21%
Balmon Investments ⁽²⁾	2.2	10%
Management & Directors Excl. Yorktown	0.7	3%
Estimated Public Float	9.4	44%
Total	21.5	100%
Total Insider Ownership⁽¹⁾	5.4	25%

Total Share inclusive of restricted stock awards

Research Analyst Coverage

	Firm	Analyst	E-mail
1	Roth	John White	jwhite@roth.com
2	Truist	Neal Dingmann	neal.dingmann@truist.com
3	Water Tower	Jeff Robertson	jeff@watertowerresearch.com
4	Energy Prospectus Group	Daniel Steffens	dmsteffens@comcast.net
5	Tuohy Brothers	Noel Parks	nparks@tuohybrothers.com

(1) Source: SEC Filings. Insiders include Yorktown, Management and the Board of Directors

(2) Includes affiliated entity holdings aggregated from Form 4 filings

Debt Summary

- Company plans to pursue a normal-course extension for its credit facility by early 2025
- SOFR swaps in place for \$80MM per quarter of notional value for 3Q24 - 1Q26, corresponding to 62% of principal value of floating-rate debt at 9/30/24⁽¹⁾
- Approximately 83% of the principal value of debt is fixed rate or hedged absent any paydown on the credit facility

Facility	Principal Amount Outstanding at 9/30/24	Borrowing Base at 9/30/24	Annual Interest Rate	Amortization	Final Maturity
Sr. Secured Credit Facility	\$130MM	\$375MM	Term SOFR + 2.85% – 3.85%; most recent quarter was 3.10% margin ⁽²⁾	None; Company intends to periodically pay down balance with excess cash flow	April 2026
Sr. Unsecured Notes	\$170MM	NA	10.5%	\$5MM/quarter	April 2028

(1) Entered into offsetting position for 2Q24-4Q24 to lock in ~\$1MM gain on interest rate swaps

(2) Includes Term SOFR Adjustment of 0.10%