



# SEPTEMBER INVESTOR PRESENTATION

SEPTEMBER 2021

**ROGER W. JENKINS**

PRESIDENT & CHIEF EXECUTIVE OFFICER

# Cautionary Statement and Investor Relations Contacts

Cautionary Note to US Investors – The United States Securities and Exchange Commission (SEC) requires oil and natural gas companies, in their filings with the SEC, to disclose proved reserves that a company has demonstrated by actual production or conclusive formation tests to be economically and legally producible under existing economic and operating conditions. We may use certain terms in this presentation, such as “resource”, “gross resource”, “recoverable resource”, “net risked PMEAN resource”, “recoverable oil”, “resource base”, “EUR” or “estimated ultimate recovery” and similar terms that the SEC’s rules prohibit us from including in filings with the SEC. The SEC permits the optional disclosure of probable and possible reserves in our filings with the SEC. Investors are urged to consider closely the disclosures and risk factors in our most recent Annual Report on Form 10-K filed with the SEC and any subsequent Quarterly Report on Form 10-Q or Current Report on Form 8-K that we file, available from the SEC’s website.

Forward-Looking Statements – This presentation contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements are generally identified through the inclusion of words such as “aim”, “anticipate”, “believe”, “drive”, “estimate”, “expect”, “expressed confidence”, “forecast”, “future”, “goal”, “guidance”, “intend”, “may”, “objective”, “outlook”, “plan”, “position”, “potential”, “project”, “seek”, “should”, “strategy”, “target”, “will” or variations of such words and other similar expressions. These statements, which express management’s current views concerning future events or results, are subject to inherent risks and uncertainties. Factors that could cause one or more of these future events or results not to occur as implied by any forward-looking statement include, but are not limited to: macro conditions in the oil and natural gas industry, including supply/demand levels, actions taken by major oil exporters and the resulting impacts on commodity prices; increased volatility or deterioration in the success rate of our exploration programs or in our ability to maintain production rates and replace reserves; reduced customer demand for our products due to environmental, regulatory, technological or other reasons; adverse foreign exchange movements; political and regulatory instability in the markets where we do business; the impact on our operations or market of health pandemics such as COVID-19 and related government responses; other natural hazards impacting our operations or markets; any other deterioration in our business, markets or prospects; any failure to obtain necessary regulatory approvals; any inability to service or refinance our outstanding debt or to access debt markets at acceptable prices; or adverse developments in the US or global capital markets, credit markets or economies in general. For further discussion of factors that could cause one or more of these future events or results not to occur as implied by any forward-looking statement, see “Risk Factors” in our most recent Annual Report on Form 10-K filed with the US Securities and Exchange Commission (“SEC”) and any subsequent Quarterly Report on Form 10-Q or Current Report on Form 8-K that we file, available from the SEC’s website and from Murphy Oil Corporation’s website at <http://ir.murphyoilcorp.com>. Murphy Oil Corporation undertakes no duty to publicly update or revise any forward-looking statements.

Non-GAAP Financial Measures – This presentation refers to certain forward-looking non-GAAP measures. Definitions of these measures are included in the appendix.

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# Agenda



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Company Overview

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Murphy Priorities

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Looking Ahead

# Murphy at a Glance

**Murphy is an independent exploration and production company, producing in three areas with an advantaged portfolio and exploration upside**



## Onshore United States

- Eagle Ford Shale on private lands in Texas with ~1,400 future locations on ~134,000 net acres
- Produced 41.5 MBOEPD in 2Q 2021, comprised of 75% oil and 88% liquids



## Onshore Canada

- Tupper Montney ~1,400 future locations on ~100,000 net acres, produced 248 MMCFD in 2Q 2021
- Kaybob Duvernay ~600 future locations on ~170,000 net acres, produced 9.7 MBOEPD in 2Q 2021



## Offshore Deepwater Gulf of Mexico

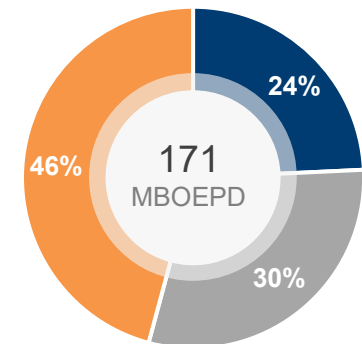
- Fifth largest producer in the Gulf of Mexico, produced 74.4 MBOEPD<sup>1</sup> in 2Q 2021
- Executing 3 major projects on schedule, with first oil expected in 2022



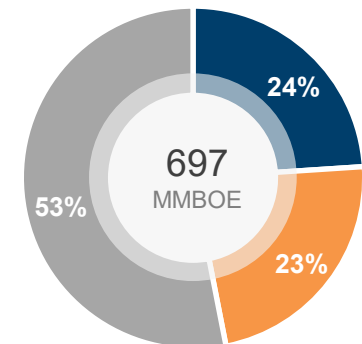
## Exploration

- ~1.1 BBOE of risked mean resources and more than 8 MM net acres across Gulf of Mexico, offshore Mexico, Brazil, Vietnam and Australia

2Q 2021 Production<sup>1</sup>



2020 Proved Reserves<sup>1</sup>



■ US Onshore ■ Offshore ■ Canada Onshore

<sup>1</sup> Excluding noncontrolling interest

Note: Future locations and net acres as of December 31, 2020

# Why Murphy Oil?



Sustainable oil and natural gas assets that are safely operated with low carbon emissions intensity in three operating areas across North America



High-potential exploration portfolio with industry-leading offshore capabilities



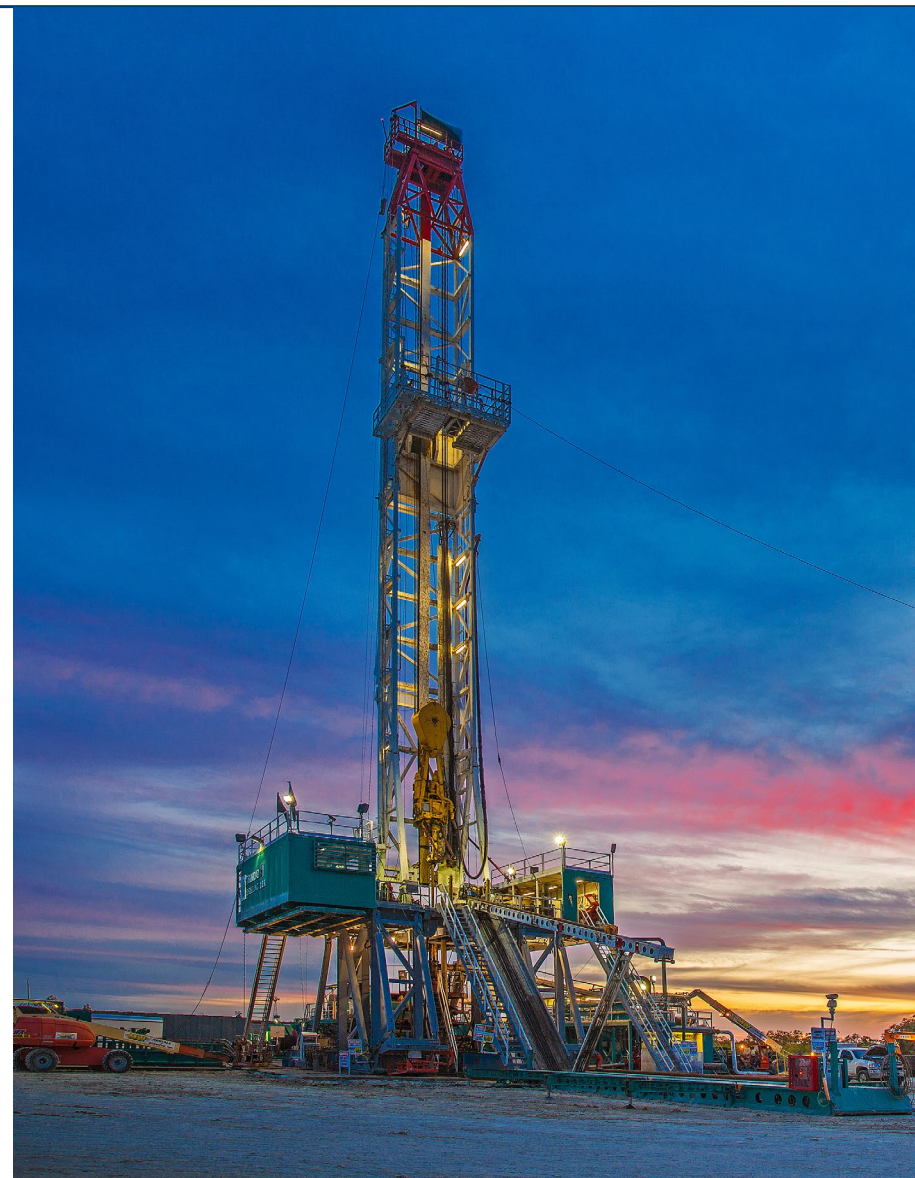
Strong generator of free cash flow with capital allocation flexibility



Financial discipline has led to 60-year track record of returning capital to shareholders



Supported by multi-decade founding family, with meaningful board and management ownership



# Low Emissions Intensity Energy Generation

- Lowering emissions intensity 15-20% by 2030
- Realizing lower costs while reducing environmental impacts
- Deepwater offshore assets have the lowest carbon intensity in global oil-producing fields
- Monitoring and evaluating further actions to decarbonize

**Ranked top-quartile in carbon intensity for 2020 among oil-weighted peers**



# 2021 Sustainability Report Highlights

## Continued Environmental Leadership and Stewardship

- Revised and strengthened climate change position
- Obtained third-party assurance of 2020 Scope 1 and 2 GHG emissions
- Established goal of zero routine flaring by 2030
- Evaluating methane and flaring intensity targets

## Progressed Environmental Goals

- Achieved 47% reduction in Scope 1 and 2 GHG emissions since 2016
- Reduced GHG emissions intensity by 10% in 2020 from 2019 baseline

## Committed to Our People and Communities

- Operating safely while minimizing interruptions throughout COVID-19
- Instituted Human Rights Policy
- Ongoing philanthropy

## Expanded Diversity, Equity and Inclusion Efforts and Reporting

- Advanced internal DE&I awareness
- Established employee-led DE&I committee
- Increased disclosures of Equal Employment Opportunity (EEO-1) diversity data



Ranked #1 in Governance by ISS since 2018

# High-Potential Exploration Portfolio With Leading Offshore Execution Ability

## Focused and Meaningful

- Four primary exploration areas
- Targeting 3 to 5 exploration wells per year

## Reduced Risk

- Leveraging strategic partnerships

## Strategic Themes

- Consistent US Gulf of Mexico program
- High-impact potential from Brazil and Mexico

## Significant Resource Base

- ~1.1 BBOE net risked resources
- 8.5 MM net acres

## Strong Execution Ability

- Maintained schedule on major operated Gulf of Mexico projects throughout COVID-19

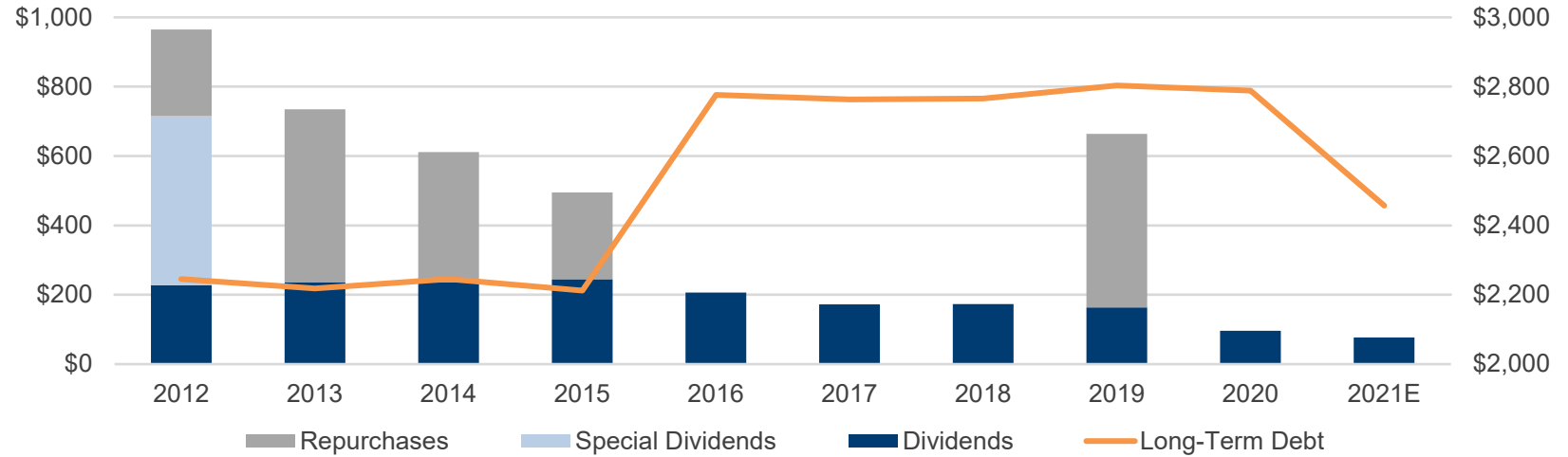
King's Quay Enroute on Heavy Lift Vessel



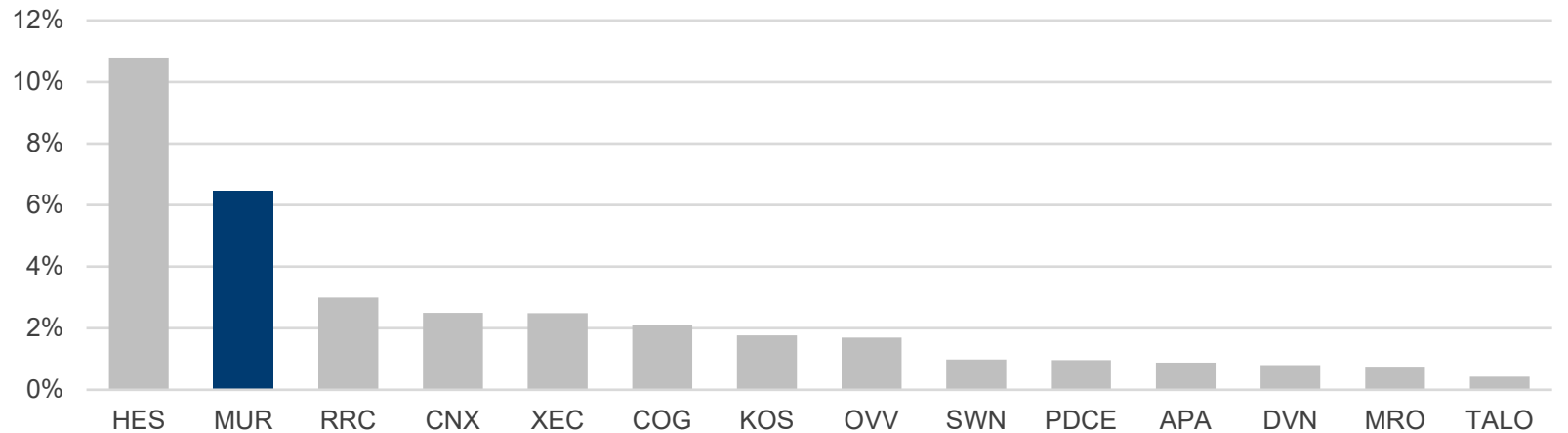
# Long-Term Shareholder Support With Significant Board Ownership

- Initiated dividend in 1961
- Returned ~\$4.0 BN to shareholders in last 10 years
- \$1.9 BN in share repurchases, 2012 – 2021E
  - Representing >20% of total shares outstanding
- High stock ownership by directors and NEOs solidifies shareholder alignment
- Plan allows for long-term debt reduction to ~\$1.4 BN by YE 2024 from YE 2020

Shareholder Returns and Long-Term Debt \$MMs



Company Ownership by Directors and NEOs FY 2020



# MURPHY PRIORITIES



**Leaning Into Challenges**  
with Sustainable Solutions

# 2Q 2021 Progress on Strategic Priorities

## DELEVER

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- Achieved initial debt reduction event in 1Q 2021 of 8%, or ~\$230 MM
- Increased goal for 2Q – 4Q 2021 long-term debt reduction to \$300 MM from \$200 MM, for total of ~17% reduction FY 2021 at \$65 oil price for remainder of year\*

## EXECUTE

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- Brought onshore wells online ahead of schedule and under budget
- Produced 100 MBOPD oil, exceeding guide by 5%, with total Eagle Ford Shale production 10% above
- Delivered strong operational performance with less non-productive time
- Remain on schedule for major offshore projects

## EXPLORE

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- Participated in drilling a discovery in Brunei with the Jagus SubThrust-1X exploration well
- Spud Silverback exploration well in Gulf of Mexico in 2Q 2021
- Cutthroat exploration well in Brazil planned to spud in 4Q 2021

\* Dependent on timing of third-party Gulf of Mexico downstream operations post-storm

# What's New in 3Q 2021

## King's Quay Floating Production System

- Arrived shoreside in Gulf of Mexico on schedule in September
  - No storm impact

## Gulf of Mexico Major Projects

- Samurai #4 drilling in progress, Khaleesi #3 drilled
  - Beginning subsea installation 3Q 2021
  - Remain on track for first oil in 1H 2022
- Final producer well of St. Malo waterflood (non-op) campaign online prior to storm

## Gulf of Mexico Updates

- Lease sale expected to occur by YE 2021
- Calliope well online prior to storm

## Debt Reduction Plan

- Redeemed \$150 MM of 2024 Notes in Aug 2021
- On target to achieve \$300 MM of long-term debt reduction by YE 2021\*

## Hurricane Ida Update

- Operated facilities re-manned shortly after storm
  - Ready to produce, awaiting third-party downstream capabilities
  - ~9 MBOEPD (net) producing now
  - ~1 MBOEPD (net) to remain offline for repairs
  - No indications of any pipeline leaks
- Port Fourchon shorebase reopening in near term, backup locations operational
- Withdrawing production guidance
  - Awaiting third-party downstream reports

\* Dependent on timing of third-party Gulf of Mexico downstream operations post-storm

# Strong Cash Flow Generation Supports Shareholder Initiatives

## Flexible Capital to Maximize FCF Generation

- All assets generated FCF YTD 2021, excluding corporate expenses
- Maintaining 2021 CAPEX guidance midpoint of \$700 MM

## Executing Debt Reduction Plan

- Disclosed goal to reduce long-term debt by \$300 MM in 2021\*
  - Initial \$150 MM of 2024 Notes redeemed in 3Q 2021
- Achieve 50% total debt reduction by YE 2024 at \$60 long-term WTI oil price

## Long-Term Dividend Commitment

- FCF generation supports long-standing dividend
  - \$77 MM annualized



\* Dependent on timing of third-party Gulf of Mexico downstream operations post-storm

# MURPHY PORTFOLIO



# Concentrated Onshore Portfolio With Multi-Year Inventories

PRICE-ADVANTAGED  
**Oil-Weighted**  
EAGLE FORD SHALE



WELL-POSITIONED FOR  
**Natural Gas**  
IN TUPPER MONTNEY



**~540 MMBOE**  
PROVED RESERVES



**Over 3,400**  
FUTURE LOCATIONS



# Well-Established Gulf of Mexico Portfolio

**Low-Emission  
Intensity Asset**



**Top 5 Operator  
BY PRODUCTION**



**High Margin  
EBITDA/BOE**



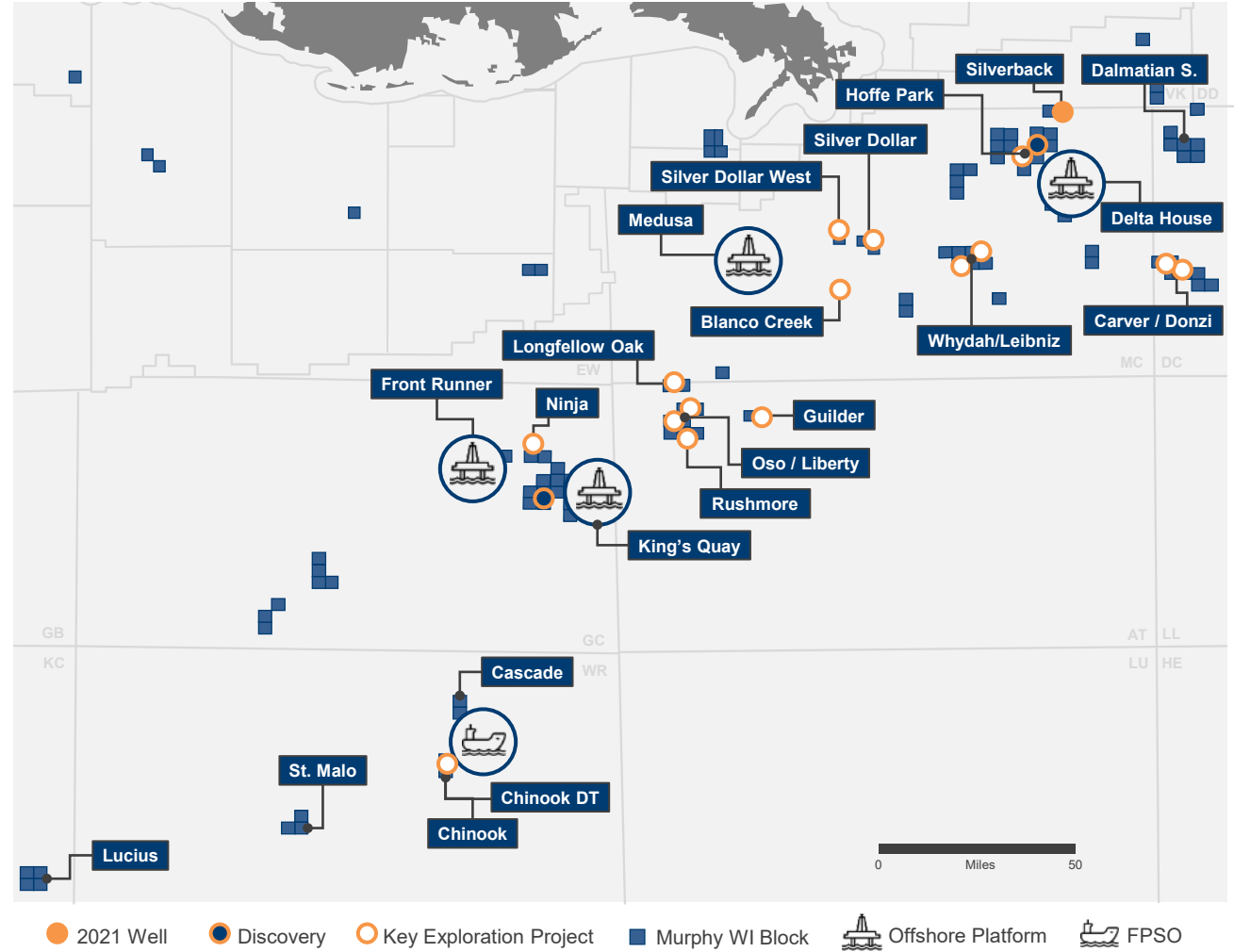
**Over 100 Blocks  
4 OPERATED PRODUCTION  
FACILITIES**



**Resource Upside  
~20 KEY EXPLORATION  
PROSPECTS**



Gulf of Mexico Asset



# High-Impact Exploration Portfolio

## Focused Targeting

3 TO 5 WELLS PER YEAR



## Reduced Risk

APPROPRIATE WORKING INTEREST



## Company-Making Potential

BRAZIL & MEXICO



## < \$12 BOE F&D

TARGET



## Exploration Focus Areas



LOOKING AHEAD

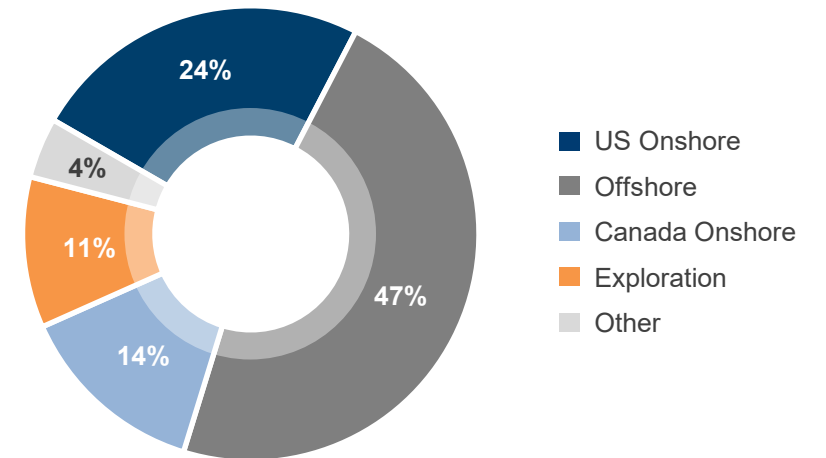


# Tightening 2021 Capital Program

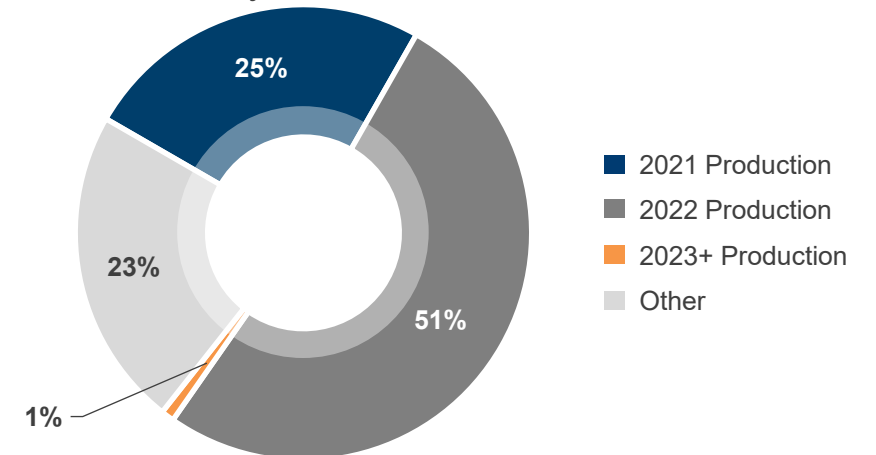
## Focusing CAPEX On High-Margin Assets

- \$325 MM allocated to Gulf of Mexico
  - 2021 Gulf of Mexico spending primarily directed toward major projects, providing long-term production volumes
- \$170 MM allocated to Eagle Ford Shale
- \$85 MM allocated to Tupper Montney

2021 Total CAPEX



CAPEX by Production Year



2021  
GUIDANCE

CAPEX  
FY 2021

\$685 – \$715 MM

Note: Production volumes, sales volumes, reserves and financial amounts exclude noncontrolling interest, unless otherwise stated

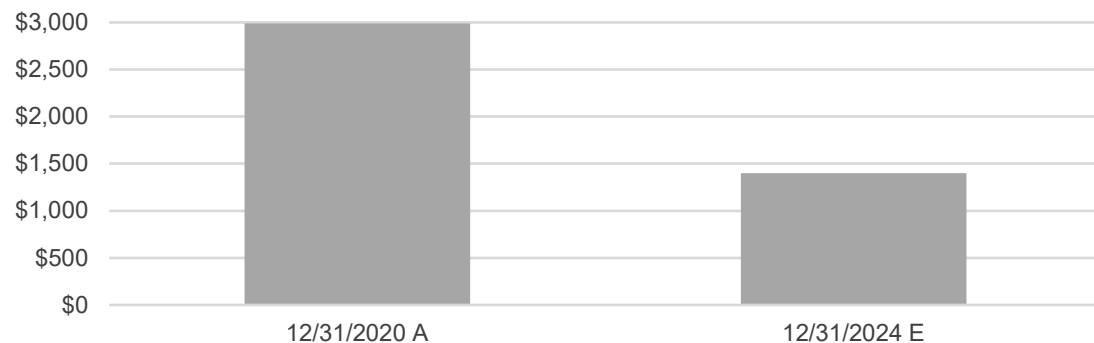
Note: 2022 production includes St. Malo waterflood, Khaleesi, Mormont and Samurai projects. 2023+ production includes exploration

# Disciplined Strategy Leads to Long-Term Value

## Delever, Execute, Explore 2021 – 2024

- Achieve < \$1.4 BN debt by 2024\*
- Spend annual average CAPEX of ~\$600 MM
- Deliver production CAGR of ~6% in 2021 – 2024
- Produce consistent oil-weighting, ~50% in 2021 – 2024
- Maintain offshore production average of ~75 MBOEPD in 2021 – 2024
- Advance exploration portfolio of > 1 BBOE net risked potential resources
- Pay consistent dividend to shareholders

Forecast Debt Outstanding \$MMs

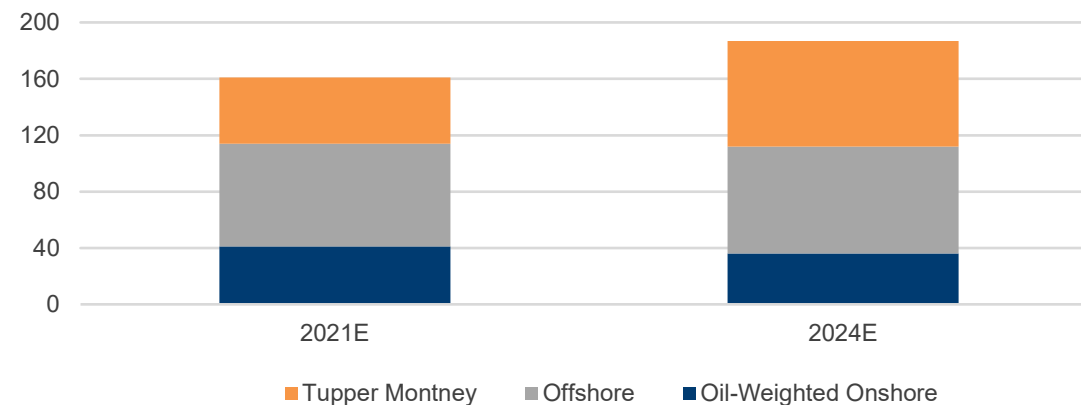


\* Assumes long-term \$60 WTI oil price

## Capital Allocation Optionality

- Reduce debt further
- Allocate additional capital to assets
- Fund exploration success
- Evaluate strategic A&D opportunities
- Return additional cash to shareholders

2021E – 2024E Production MBOEPD



Note: Oil-weighted onshore includes Eagle Ford Shale and Kaybob Duvernay

# Focused on Targeted Priorities

## DELEVER

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- Increased goal for 2Q – 4Q 2021 long-term debt reduction to \$300 MM from \$200 MM, for total of ~17% reduction FY 2021 at \$65 oil price for remainder of year\*
- Plan allows for long-term debt reduction to ~\$1.4 BN by YE 2024 from YE 2020\*\*, with potential for further reductions long-term

## EXECUTE

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- Progress major projects in the Gulf of Mexico ahead of first oil in 1H 2022
- Continue achieving drilling and completions cost efficiencies and lowering emissions intensity
- Maintain strong safety and environmental metrics

## EXPLORE

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- Focus on drilling non-op wells in Gulf of Mexico, Brazil and Brunei in 2021
- Progress on 2022 exploration plans with partners

\* Dependent on timing of third-party Gulf of Mexico downstream operations post-storm

\*\* Using strip prices through 2022 and \$55/BBL for 2023-2024

# Why Murphy Oil?



Sustainable oil and natural gas assets that are safely operated with low carbon emissions intensity in three operating areas across North America



High-potential exploration portfolio with industry-leading offshore capabilities



Strong generator of free cash flow with capital allocation flexibility



Financial discipline has led to 60-year track record of returning capital to shareholders



Supported by multi-decade founding family, with meaningful board and management ownership





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# Appendix



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# Non-GAAP Financial Measure Definitions and Reconciliations

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The following list of Non-GAAP financial measure definitions and related reconciliations is intended to satisfy the requirements of Regulation G of the Securities Exchange Act of 1934, as amended. This information is historical in nature. Murphy undertakes no obligation to publicly update or revise any Non-GAAP financial measure definitions and related reconciliations.

# Non-GAAP Reconciliation

## EBITDA and EBITDAX

Murphy defines EBITDA as net income (loss) attributable to Murphy<sup>1</sup> before interest, taxes, depreciation and amortization (DD&A). Murphy defines EBITDAX as net income (loss) attributable to Murphy before interest, taxes, depreciation and amortization (DD&A) and exploration expense.

Management believes that EBITDA and EBITDAX provide useful information for assessing Murphy's financial condition and results of operations and are widely accepted financial indicators of the ability of a company to incur and service debt, fund capital expenditure programs, pay dividends and make other distributions to stockholders.

EBITDA and EBITDAX, as reported by Murphy, may not be comparable to similarly titled measures used by other companies and should be considered in conjunction with net income, cash flow from operations and other performance measures prepared in accordance with generally accepted accounting principles (GAAP). EBITDA and EBITDAX have certain limitations regarding financial assessments because they exclude certain items that affect net income and net cash provided by operating activities. EBITDA and EBITDAX should not be considered in isolation or as a substitute for an analysis of Murphy's GAAP results as reported.

<i>\$ Millions</i>	Three Months Ended – June 30, 2021	Three Months Ended – June 30, 2020
Net (loss) income attributable to Murphy (GAAP)	(63.1)	(317.1)
Income tax (benefit) expense	(11.2)	(94.8)
Interest expense, net	43.4	38.6
DD&A expense	217.3	219.1
<b>EBITDA attributable to Murphy (Non-GAAP)</b>	<b>186.4</b>	<b>(154.2)</b>
Exploration expense	13.5	29.5
<b>EBITDAX attributable to Murphy (Non-GAAP)</b>	<b>199.9</b>	<b>(124.7)</b>

<sup>1</sup> 'Attributable to Murphy' represents the economic interest of Murphy excluding a 20% noncontrolling interest in MP GOM.

# Non-GAAP Reconciliation

## ADJUSTED EBITDA

Murphy defines Adjusted EBITDA as net income (loss) attributable to Murphy<sup>1</sup> before interest, taxes, depreciation and amortization (DD&A), impairment expense, discontinued operations, foreign exchange gains and losses, mark-to-market gains and losses on crude oil derivative contracts, accretion of asset retirement obligations and certain other items that management believes affect comparability between periods.

Adjusted EBITDA is used by management to evaluate the company's operational performance and trends between periods and relative to its industry competitors.

Adjusted EBITDA may not be comparable to similarly titled measures used by other companies and it should be considered in conjunction with net income, cash flow from operations and other performance measures prepared in accordance with generally accepted accounting principles (GAAP). Adjusted EBITDA has certain limitations regarding financial assessments because it excludes certain items that affect net income and net cash provided by operating activities. Adjusted EBITDA should not be considered in isolation or as a substitute for an analysis of Murphy's GAAP results as reported.

<i>\$ Millions, except per BOE amounts</i>	Three Months Ended – June 30, 2021	Three Months Ended – June 30, 2020
<b>EBITDA attributable to Murphy (Non-GAAP)</b>	186.4	(154.2)
Mark-to-market loss (gain) on crude oil derivative contracts	130.9	184.5
Impairment of assets	-	19.6
Mark-to-market loss (gain) on contingent consideration	61.8	15.7
Accretion of asset retirement obligations	9.5	10.5
Unutilized rig charges	2.5	4.5
Foreign exchange losses (gains)	-	1.4
Discontinued operations (income) loss	0.1	1.2
Restructuring expenses	-	41.4
<b>Adjusted EBITDA attributable to Murphy (Non-GAAP)</b>	<b>391.2</b>	<b>124.6</b>
Total barrels of oil equivalents sold from continuing operations attributable to Murphy (thousands of barrels)	15,648	15,242
<b>Adjusted EBITDA per BOE (Non-GAAP)</b>	<b>25.00</b>	<b>8.17</b>

<sup>1</sup> 'Attributable to Murphy' represents the economic interest of Murphy excluding a 20% noncontrolling interest in MP GOM.

# Non-GAAP Reconciliation

## ADJUSTED EBITDAX

Murphy defines Adjusted EBITDAX as net income (loss) attributable to Murphy<sup>1</sup> before interest, taxes, depreciation and amortization (DD&A), exploration expense, impairment expense, discontinued operations, foreign exchange gains and losses, mark-to-market gains and losses on crude oil derivative contracts, accretion of asset retirement obligations and certain other items that management believes affect comparability between periods.

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Restructuring expenses	-	41.4
<b>Adjusted EBITDAX attributable to Murphy (Non-GAAP)</b>	<b>404.7</b>	<b>154.1</b>
Total barrels of oil equivalents sold from continuing operations attributable to Murphy (thousands of barrels)	15,648	15,242
<b>Adjusted EBITDAX per BOE (Non-GAAP)</b>	<b>25.86</b>	<b>10.11</b>

<sup>1</sup> 'Attributable to Murphy' represents the economic interest of Murphy excluding a 20% noncontrolling interest in MP GOM.

# Glossary of Abbreviations

**BBL:** Barrels (equal to 42 US gallons)

**BCF:** Billion cubic feet

**BCFE:** Billion cubic feet equivalent

**BN:** Billions

**BOE:** Barrels of oil equivalent (1 barrel of oil or 6,000 cubic feet of natural gas)

**BOEPD:** Barrels of oil equivalent per day

**BOPD:** Barrels of oil per day

**CAGR:** Compound annual growth rate

**D&C:** Drilling & completion

**DD&A:** Depreciation, depletion & amortization

**EBITDA:** Income from continuing operations before taxes, depreciation, depletion and amortization, and net interest expense

**EBITDAX:** Income from continuing operations before taxes, depreciation, depletion and amortization, net interest expense, and exploration expenses

**EFS:** Eagle Ford Shale

**EUR:** Estimated ultimate recovery

**F&D:** Finding and development

**G&A:** General and administrative expenses

**GOM:** Gulf of Mexico

**LOE:** Lease operating expense

**MBOE:** Thousands barrels of oil equivalent

**MBOEPD:** Thousands of barrels of oil equivalent per day

**MCF:** Thousands of cubic feet

**MCFD:** Thousands cubic feet per day

**MM:** Millions

**MMBOE:** Millions of barrels of oil equivalent

**MMCF:** Millions of cubic feet

**MMCFD:** Millions of cubic feet per day

**NA:** North America

**NGL:** Natural gas liquid

**ROR:** Rate of return

**R/P:** Ratio of reserves to annual production

**TCF:** Trillion cubic feet

**TCPL:** TransCanada Pipeline

**TOC:** Total organic content

**WI:** Working interest

**WTI:** West Texas Intermediate (a grade of crude oil)

# Achieving Disciplined Capital Execution to Support 2021 Priorities

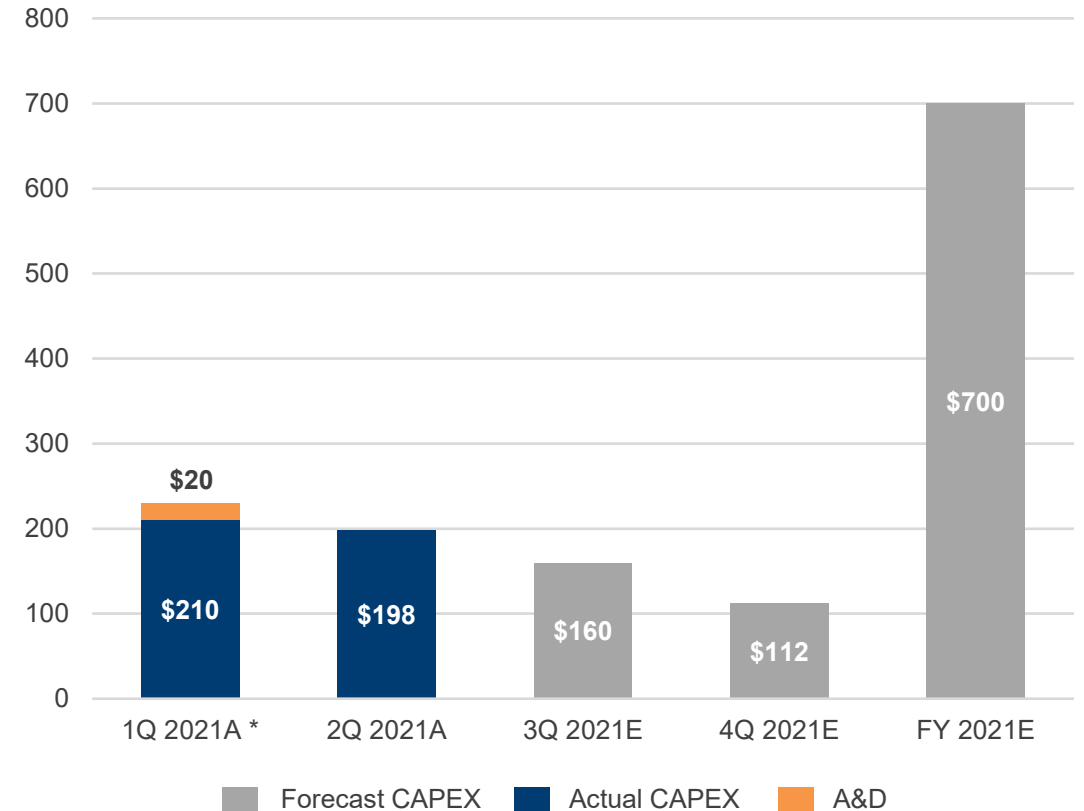
## Continuing Plan Execution

- 2Q 2021 accrued CAPEX of \$198 MM aligned with plan
- Primary business units' CAPEX heavily weighted to 1H 2021
  - Eagle Ford Shale 63% of FY 2021 plan
  - Gulf of Mexico 66% of FY 2021 plan
  - Onshore Canada 76% of FY 2021 plan

## Disciplined Spending Tightens CAPEX Range

- Adjusting FY 2021 CAPEX guide to \$685 – \$715 MM, with \$700 MM remaining as midpoint
- Continuing cost management through drilling and completions technologies and operational efficiencies

Accrued CAPEX by Quarter \$MM



Accrual CAPEX, based on midpoint of guidance range and excluding noncontrolling interest  
\* Excludes King's Quay CAPEX of \$17 MM

# Hedging Positions

## United States

Commodity	Type	Volumes (BBL/D)	Price (BBL)	Start Date	End Date
WTI	Fixed Price Derivative Swap	45,000	\$42.77	7/1/2021	12/31/2021
WTI	Fixed Price Derivative Swap	20,000	\$44.88	1/1/2022	12/31/2022

## Montney, Canada

Commodity	Type	Volumes (MMCF/D)	Price (MCF)	Start Date	End Date
Natural Gas	Fixed Price Forward Sales at AECO	241	C\$2.57	7/1/2021	12/31/2021
Natural Gas	Fixed Price Forward Sales at AECO	231	C\$2.42	1/1/2022	1/31/2022
Natural Gas	Fixed Price Forward Sales at AECO	221	C\$2.41	2/1/2022	4/30/2022
Natural Gas	Fixed Price Forward Sales at AECO	250	C\$2.40	5/1/2022	5/31/2022
Natural Gas	Fixed Price Forward Sales at AECO	292	C\$2.39	6/1/2022	10/31/2022
Natural Gas	Fixed Price Forward Sales at AECO	311	C\$2.40	11/1/2022	12/31/2022
Natural Gas	Fixed Price Forward Sales at AECO	294	C\$2.38	1/1/2023	3/31/2023
Natural Gas	Fixed Price Forward Sales at AECO	275	C\$2.37	4/1/2023	12/31/2023
Natural Gas	Fixed Price Forward Sales at AECO	185	C\$2.41	1/1/2024	12/31/2024

\* As of August 4, 2021

# Balance Sheet Stability

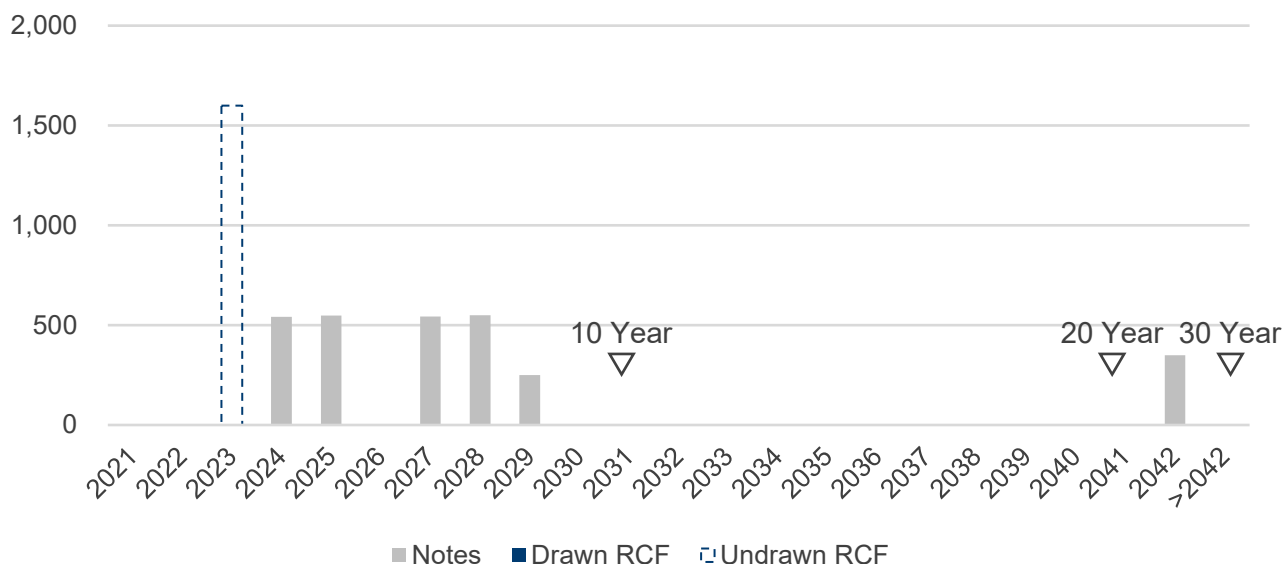
## Solid Foundation for Commodity Price Cycles

- \$418 MM of cash and cash equivalents at June 30, 2021
- Executed \$150 MM partial redemption of 6.875% Notes due 2024 on Aug 16, 2021
- \$1.6 BN senior unsecured credit facility matures Nov 2023, undrawn at June 30, 2021
- All debt is unsecured, senior credit facility not subject to semi-annual borrowing base redeterminations

## Long-Term Debt Profile\*

Total Bonds Outstanding \$BN	\$2.783
Weighted Avg Fixed Coupon	6.3%
Weighted Avg Years to Maturity	7.5

## Note Maturity Profile\* \$MM



\* As of June 30, 2021. Does not include \$150 MM redemption on Aug. 16, 2021.



## Eagle Ford Shale Operated Well Locations

Area	Net Acres	Reservoir	Inter-Well Spacing (ft)	Remaining Wells
Karnes	10,092	Lower EFS	300	106
		Upper EFS	600	142
		Austin Chalk	1,200	97
Tilden	64,770	Lower EFS	600	264
		Upper EFS	500	138
		Austin Chalk	600	100
Catarina	48,375	Lower EFS	550	238
		Upper EFS	950	219
		Austin Chalk	1,200	112
<b>Total</b>	<b>123,237</b>			<b>1,416</b>

*\*As of December 31, 2020*

## Kaybob Duvernay Well Locations

Area	Net Acres	Inter-Well Spacing (ft)	Remaining Wells
Two Creeks	35,232	984	104
Kaybob East	37,744	984	152
Kaybob West	25,984	984	107
Kaybob North	25,536	984	98
Simonette	32,116	984	108
Saxon	12,298	984	57
<b>Total</b>	<b>168,910</b>		<b>626</b>

*\*As of December 31, 2020*

# North America Onshore

Balancing Investments for Free Cash Generation to Delever Balance Sheet

## 2Q 2021 Onshore Activity

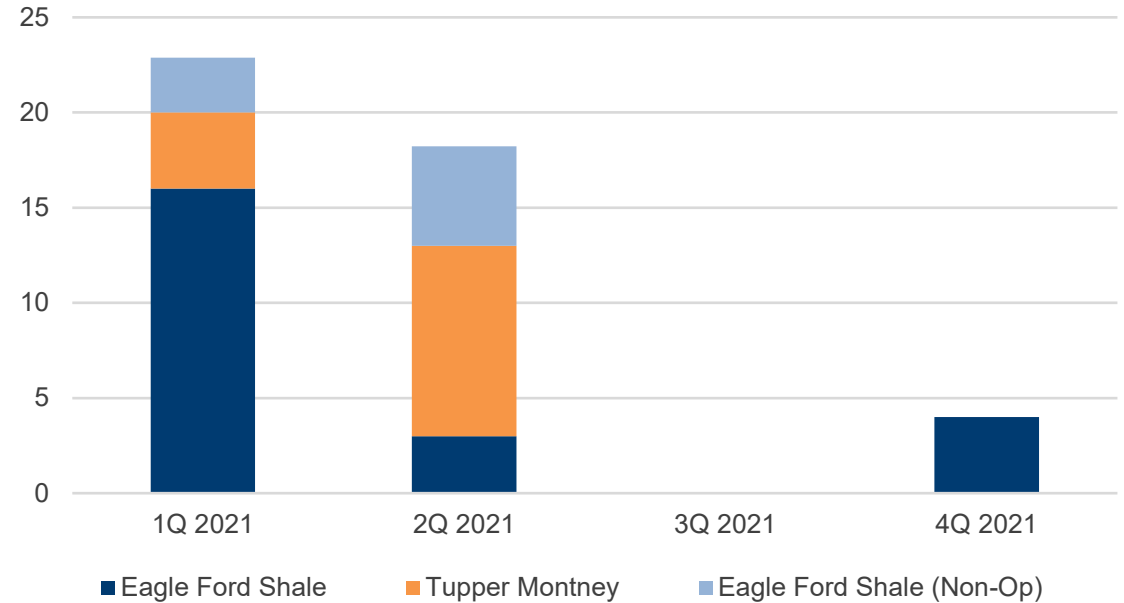
- Eagle Ford Shale
  - 3 operated wells + 29 gross non-operated wells\* online
- Tupper Montney
  - 10 operated wells online, FY 2021 program complete

## FY 2021 Onshore Activity

- Eagle Ford Shale
  - 23 operated + 45 gross non-operated wells\* online
- Tupper Montney
  - 14 operated wells online

\* Eagle Ford Shale non-operated wells average 18% working interest

2021 Wells Online



Note: Non-op well cadence subject to change per operator plans  
Eagle Ford Shale non-operated wells adjusted for 18% average working interest

# Eagle Ford Shale

Base Production Outperforms While Lowering Costs

## 2Q 2021 Activity

- 3 operated wells online, all Catarina Lower EFS
  - Avg 1,080 BOEPD IP30, 87% oil
- 29 gross non-op wells online, primarily Karnes Upper EFS and Austin Chalk
  - Avg 1,700 BOEPD IP30

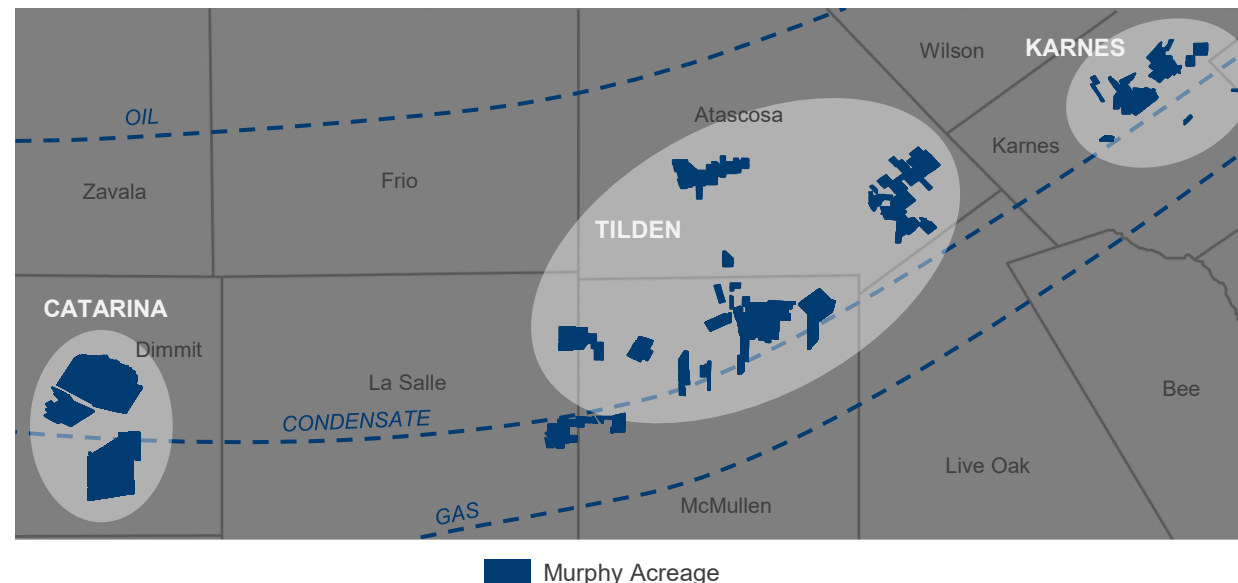
## 2H 2021 Activity

- 4 operated wells online in Catarina in 4Q 2021
  - 1 Upper EFS, 2 Lower EFS, 1 Austin Chalk
- Reaffirm FY 2021 CAPEX of \$170 MM

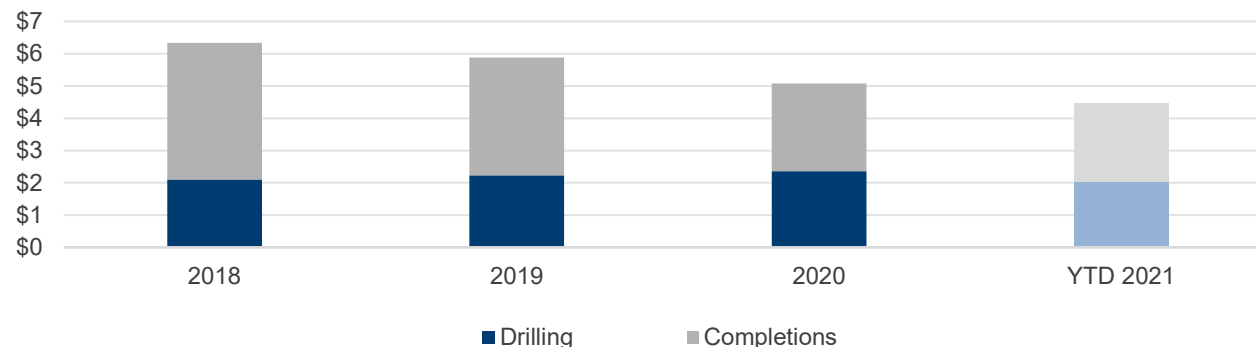
## Drilling and Completions Costs

- ~40% reduction in completions costs since FY 2018
  - 25% reduction in CLAT since FY 2019
- 24% increase in RoP since FY 2018
- \$4.7 MM avg well cost in 1H 2021, down from \$6.3 MM in FY 2018
  - Now achieving ~9 month well payout

## Eagle Ford Shale Acreage



## Eagle Ford Shale Drilling and Completions \$MM per well



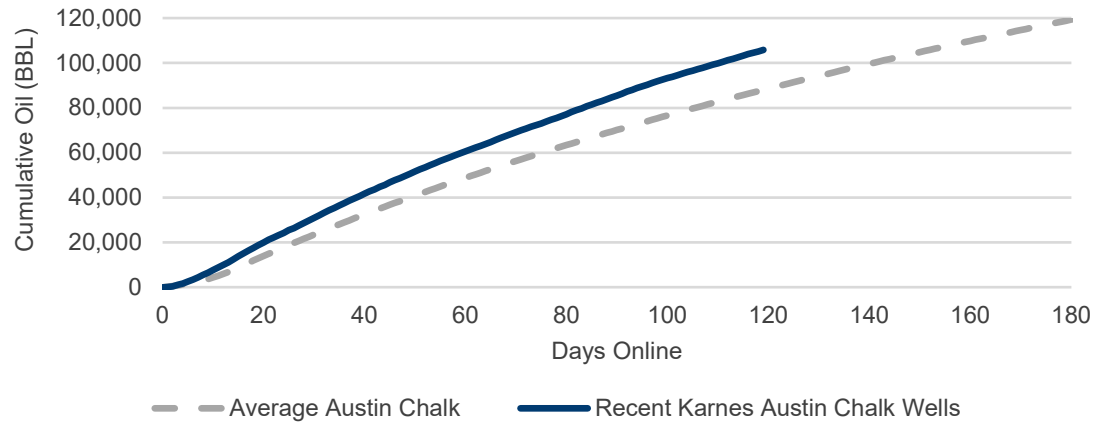
# Eagle Ford Shale

## Analyzing Results in Austin Chalk De-Risk Murphy Locations

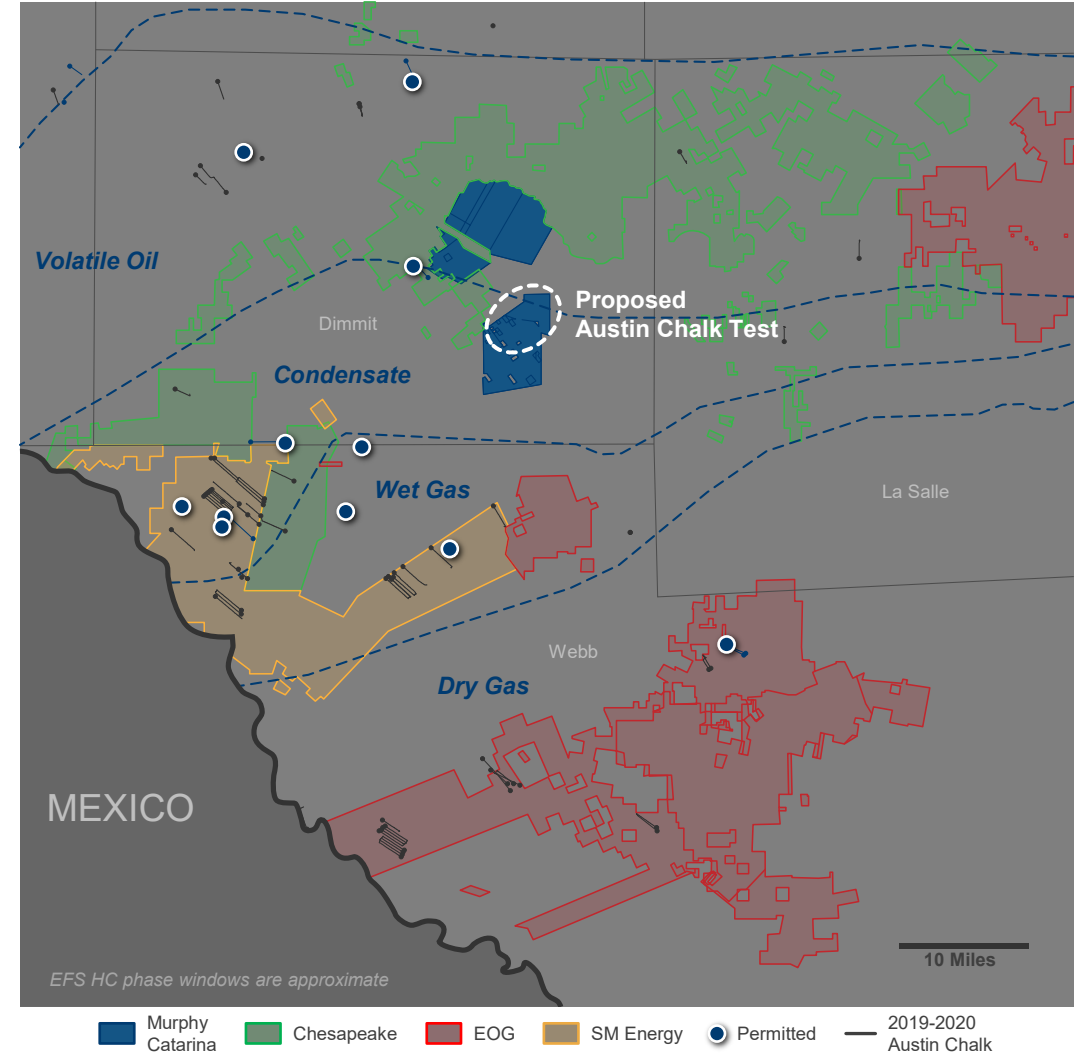
### Achieving Strong Austin Chalk Results

- Recent Karnes wells meaningfully outperforming type curve
  - Avg 1,400 BOEPD IP30 rate
  - ~100 Karnes locations as of FYE 2020
- Operators near Murphy Catarina acreage reporting robust production rates
  - Working to delineate their acreage
- 1 Murphy Austin Chalk well online in Catarina in 4Q 2021
  - Potential to de-risk ~110 Catarina locations as of FYE 2020

2021 Karnes Austin Chalk Well Performance



Eagle Ford Shale – Austin Chalk Peer Acreage



# Tupper Montney

Increasing Recoveries While Lowering Costs

## 2Q 2021 Activity

- 10 wells online, activity complete for FY 2021

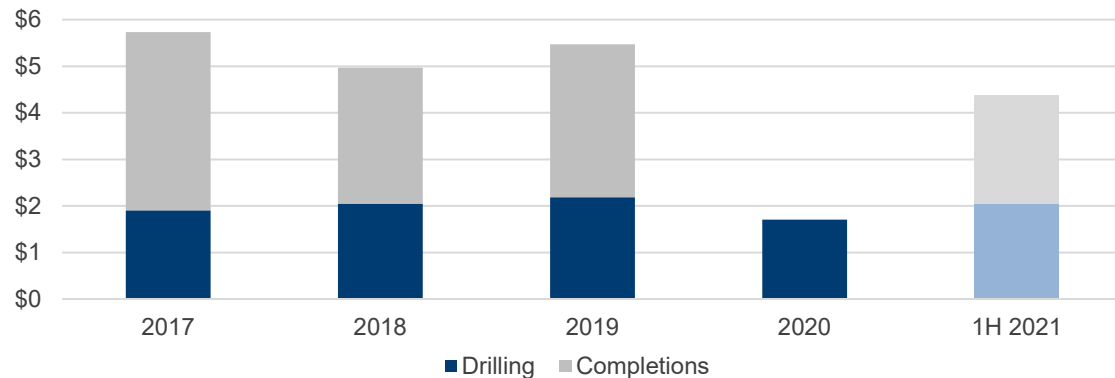
## Lowering D&C costs

- 24% reduction since FY 2017
- \$4.4 MM avg well cost in 1H 2021, down from \$5.5 MM in FY 2019
  - 25% reduction in CLAT since FY 2019

## Low Execution Risk

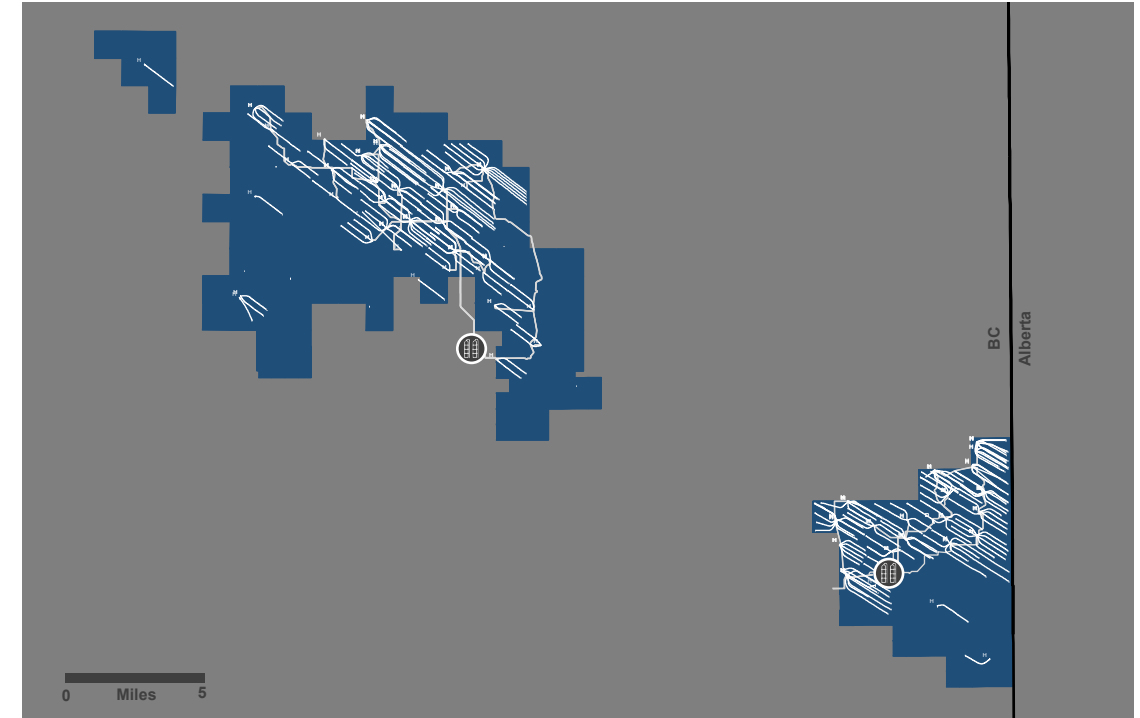
- Average ultimate recovery of ~21 BCF / well
- Low subsurface risk from proven resource
- Ample existing take-away and infrastructure in place

Tupper Montney Drilling and Completions \$MM per well



\* Includes contingent well count

## Tupper Montney Acreage



■ Murphy Acreage    🏠 Facility

# Tupper Montney Project

Low Carbon Intensity Development With Attractive Cash Margins

## Tupper Montney Advantages

- Employ capital allocation process that maximizes free long term cash flow
  - Generates greater cash margin per well than Eagle Ford Shale at conservative prices
  - < \$1 / MCF average new well breakeven cost
- Long history of continuous improvement
  - Increasing laterals to ~11,000'
  - Improved drilling and completion costs to ~\$5 MM / well
  - Increased average ultimate recovery to ~21 BCF / well

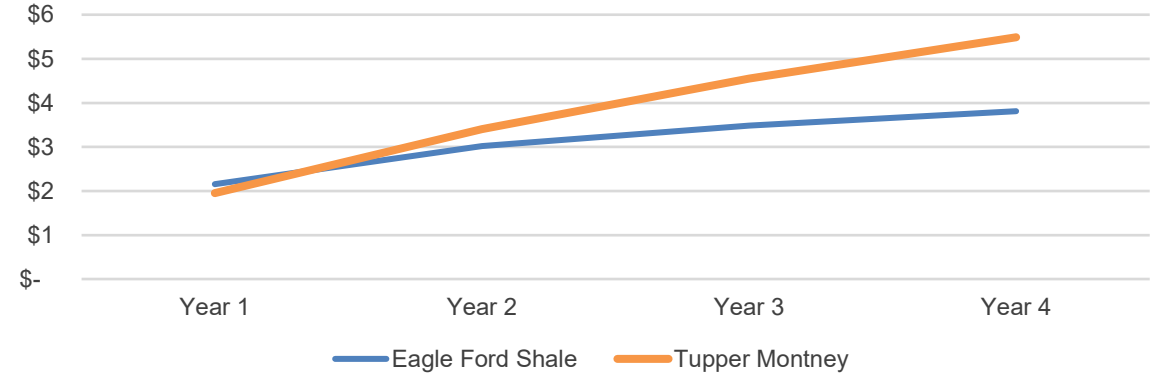
## Improved Macro Economics for Region

- Increased local take-away capacity and debottlenecking completed
  - 600 MMCFD westward export 2020 – 2022
  - 1.3 BCFD eastward export 2021 – 2022
- Declining regional production 2 BCFPD lower Y-o-Y
- Improved domestic demand due to coal to natural gas switching
- Construction underway for LNG Canada project, estimated in service in 2025
- Lowest AECO to Henry Hub basis differential in 5 years

## Low Carbon Intensity Asset

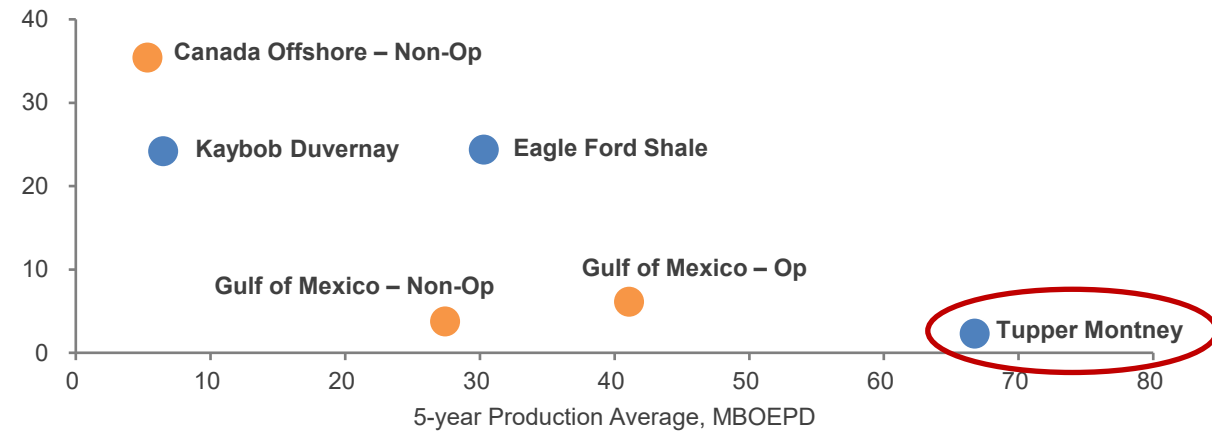
- Lowest greenhouse gas intensity asset in current portfolio

Annual Cumulative Cash Margin Per Well \$MM



Cash margins based on average price \$44 / WTI, \$1.78 / MCF AECO

Average 5-Year GHG Intensity by Asset Tonnes CO<sub>2</sub>e / MBOE



Note: 5-year average intensity based on internal estimates

# Tupper Montney Development

## High Impact Development Drives Future Cash Flows

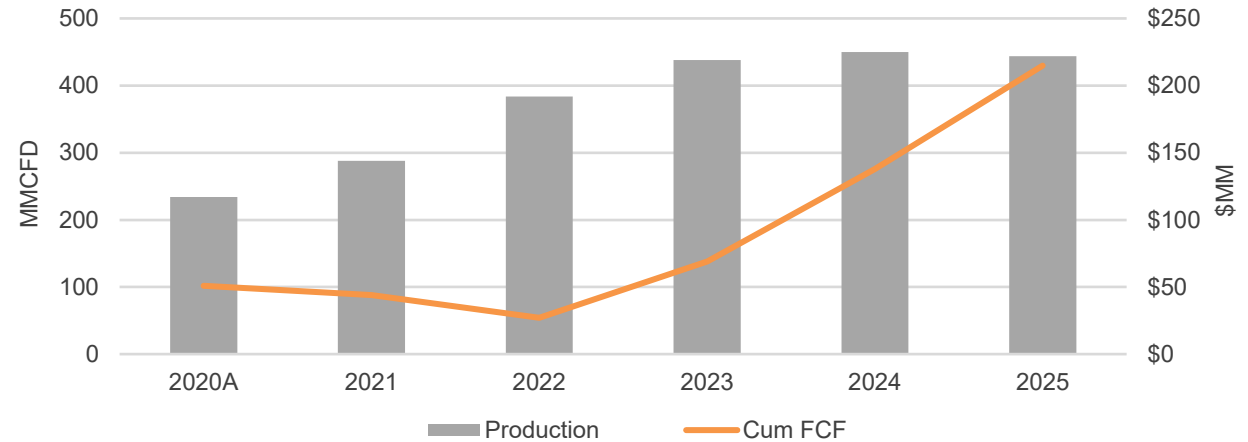
### Tupper Montney Development Plan

- Commitment to infrastructure approved 2Q 2018; sanctioned 4Q 2020
- Free cash flow generated in 2020 of ~\$50 MM covers cumulative free cash flow requirement of \$24 MM for 2021 – 2022
- Average annual CAPEX of ~\$68 MM from 2020 – 2025
- Cumulative free cash flow of ~\$215 MM from 2020 – 2025

### Low Execution Risk

- Increased average ultimate recovery to ~21 BCF / well
- Low subsurface risk from proven resource
- Ample existing take-away and infrastructure in place
- Mitigate price risk with fixed price forward sales contracts through 2024

Tupper Montney Production and Cumulative FCF



Tupper Montney Development Hedging and Production



Note: Free cash flow = operating cash flow (-) CAPEX (-) abandonment  
 FCF based on average price \$1.98/MCF hedged, \$1.78/MCF AECO  
 Note: Future production volumes based on current sanctioned plan

# Gulf of Mexico

Major Projects Drive Future Free Cash Flow

## Khaleesi / Mormont / Samurai

- Launched drilling campaign 2Q 2021
  - Drilled Samurai #3 and Khaleesi #3 wells
  - Currently drilling Samurai #4 well
  - On track for first oil in 1H 2022

## St. Malo Waterflood (Non-Op)

- Final producer well of campaign online prior to storm
- Project remains on schedule

## Facilities

Project Components	Fabrication	Commissioning	Installation / Hook-up
King's Quay FPS	✓	3Q 2021 – 2Q 2022	1H 2022
King's Quay Moorings	✓	N/A	4Q 2021
Subsea Flowlines and Equipment	Ongoing	1H 2022	4Q 2021 – 3Q 2022

## Drilling and Completions

Field	Drilled	Completions	Online
Khaleesi	✓ ✓ ✓	4Q 2021	1H 2022
Mormont	✓ ✓	1Q 2022	1H 2022
Samurai	✓ ✓	2Q 2022	2H 2022

● Planned Well     
 ✓ Drilling in Progress     
 ✓ Drilled Well

See Appendix for major project CAPEX and production cadence

# King's Quay Update

## King's Quay Floating Production System

- Completed construction in 2Q 2021
- Arrived shoreside in Gulf of Mexico in September
- Pipeline welding, subsea flowline and equipment installation 4Q 2021 – 1H 2022
- On track to receive first oil 1H 2022

Current Location



## King's Quay Sailaway Transportation Route

~14,500 miles / 60 days



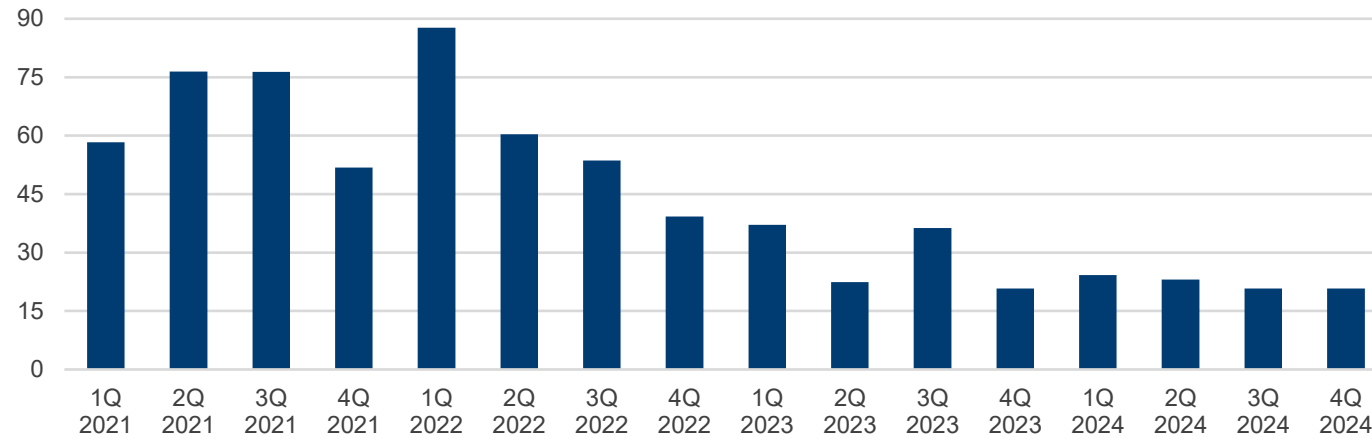
# Gulf of Mexico

## Major Projects CAPEX and Production Cadence

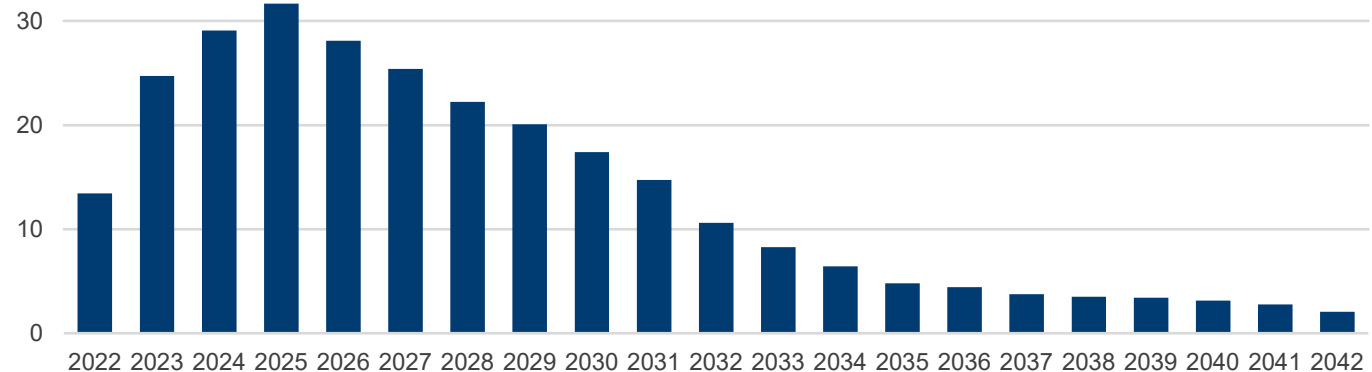


Major projects include Khaleesi, Mormont, Samurai and St. Malo waterflood

Major Projects Net CAPEX \$MM



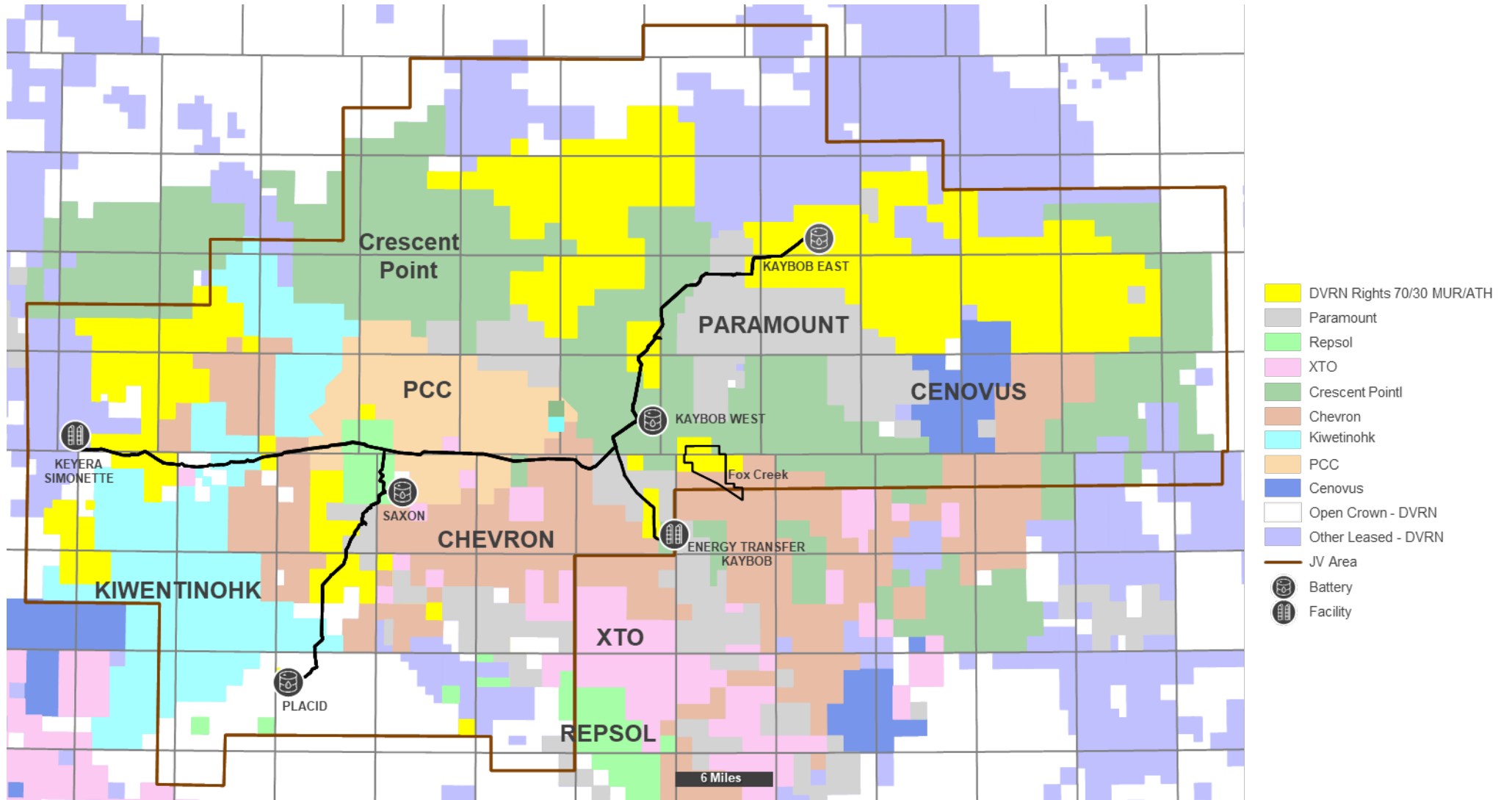
Major Projects Net Production MBOEPD





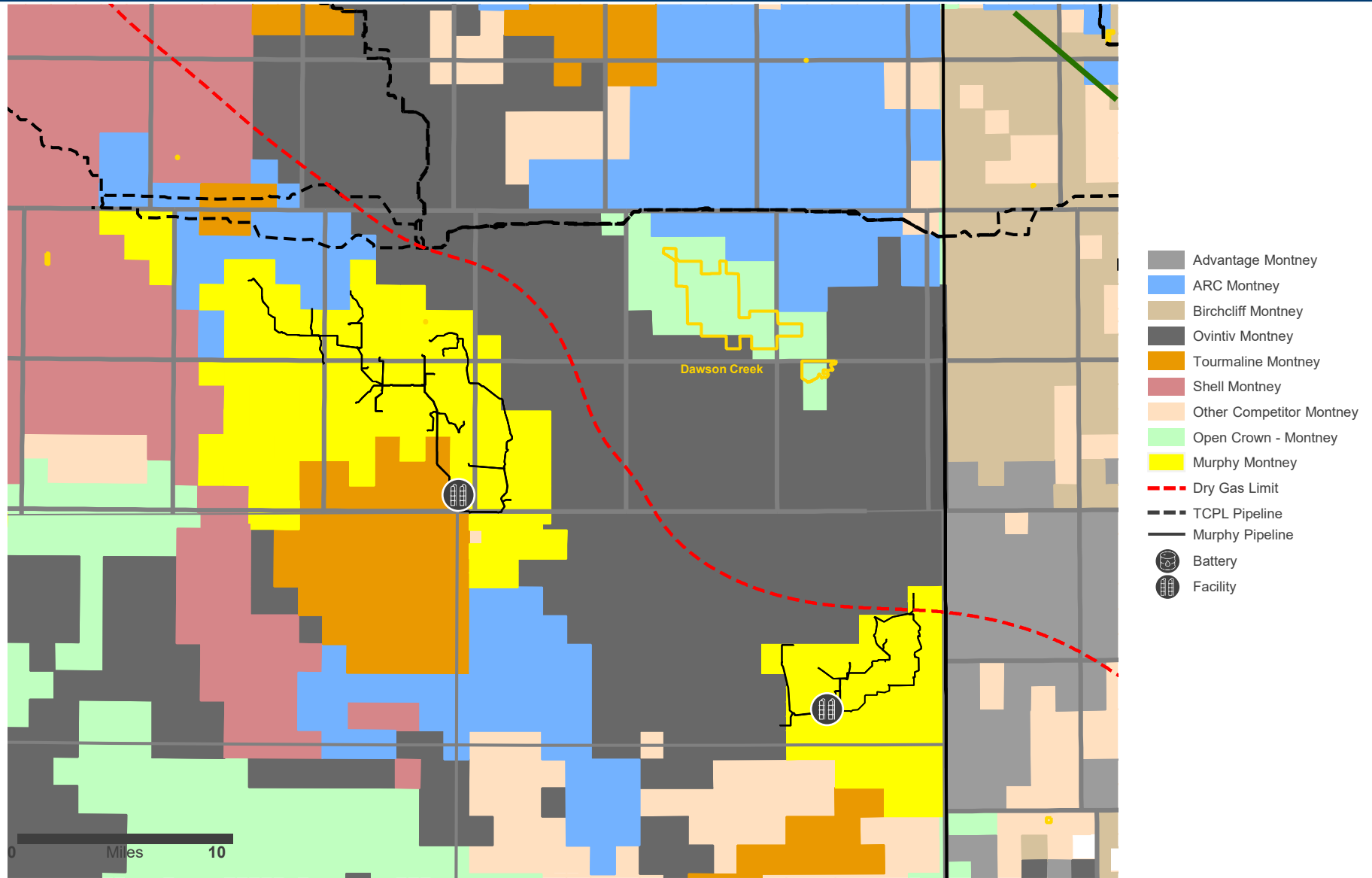
# Kaybob Duvernay

## Peer Acreage



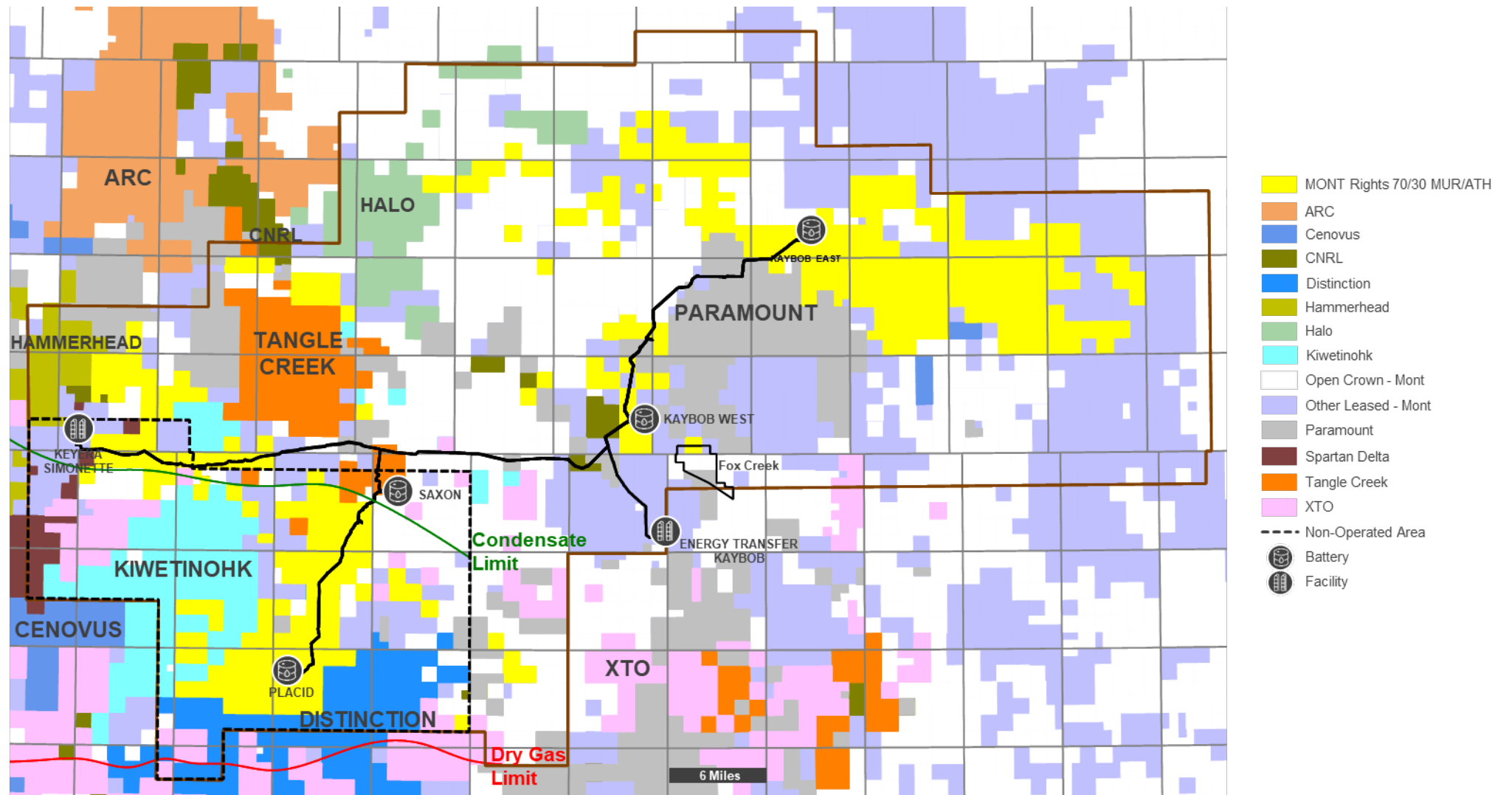
# Tupper Montney

## Peer Acreage



# Placid Montney

## Peer Acreage



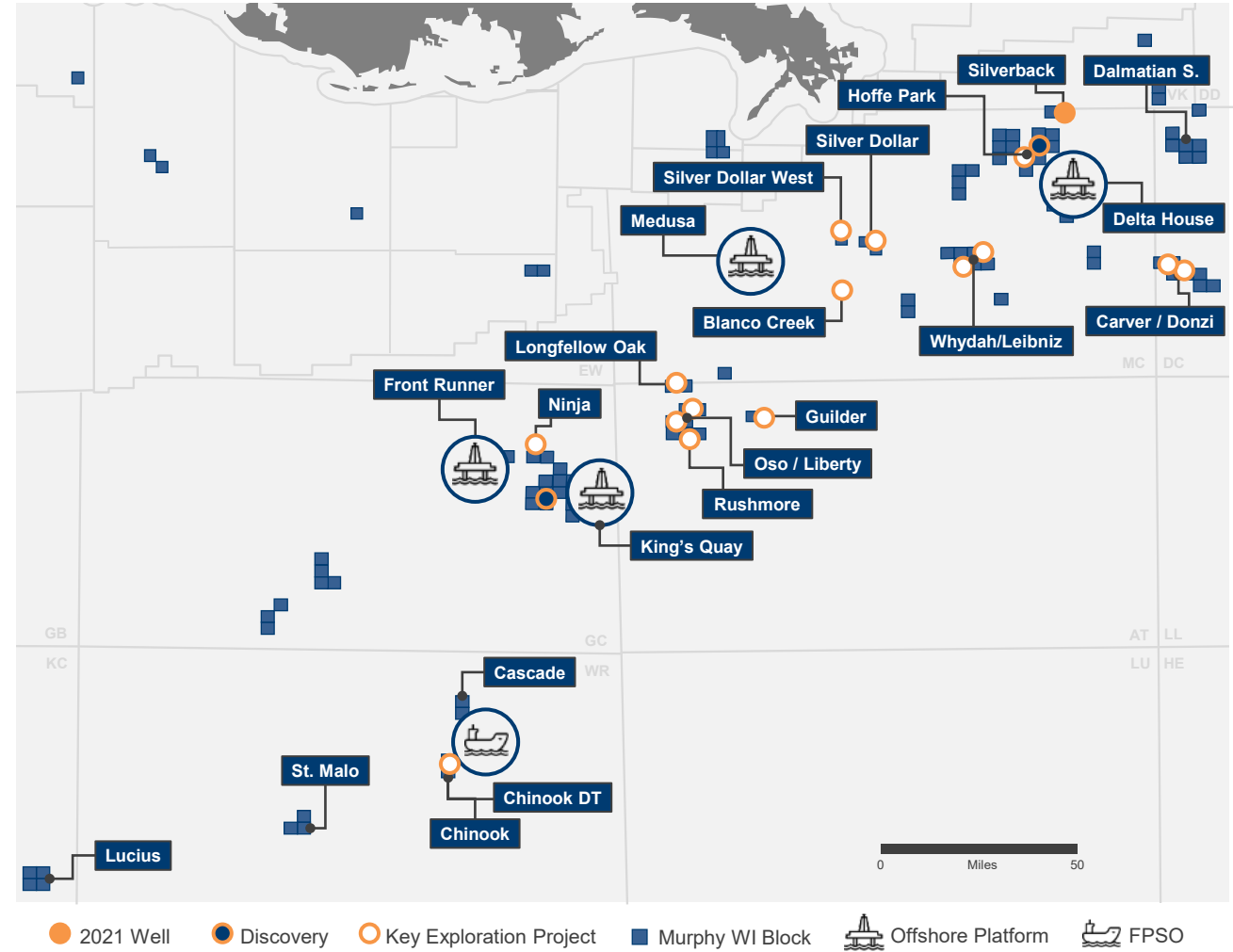
# Gulf of Mexico

## Murphy Blocks

PRODUCING ASSETS		
Asset	Operator	Murphy WI <sup>1</sup>
Cascade	Murphy	80%
Chinook	Murphy	80%
Clipper	Murphy	80%
Cottonwood	Murphy	80%
Dalmatian	Murphy	56%
Front Runner	Murphy	50%
Habanero	Shell	27%
Kodiak	Kosmos	48%
Lucius	Anadarko	13%
Marmalard	Murphy	27%
Marmalard East	Murphy	68%
Medusa	Murphy	48%
Neidermeyer	Murphy	53%
Powerball	Murphy	75%
Son of Bluto II	Murphy	27%
St. Malo	Chevron	20%
Tahoe	W&T	24%
Thunder Hawk	Murphy	50%

Note: Anadarko is a wholly-owned subsidiary of Occidental Petroleum  
 1 Excluding noncontrolling interest

## Gulf of Mexico Exploration Area



# 2021 Exploration Update

## Gulf of Mexico

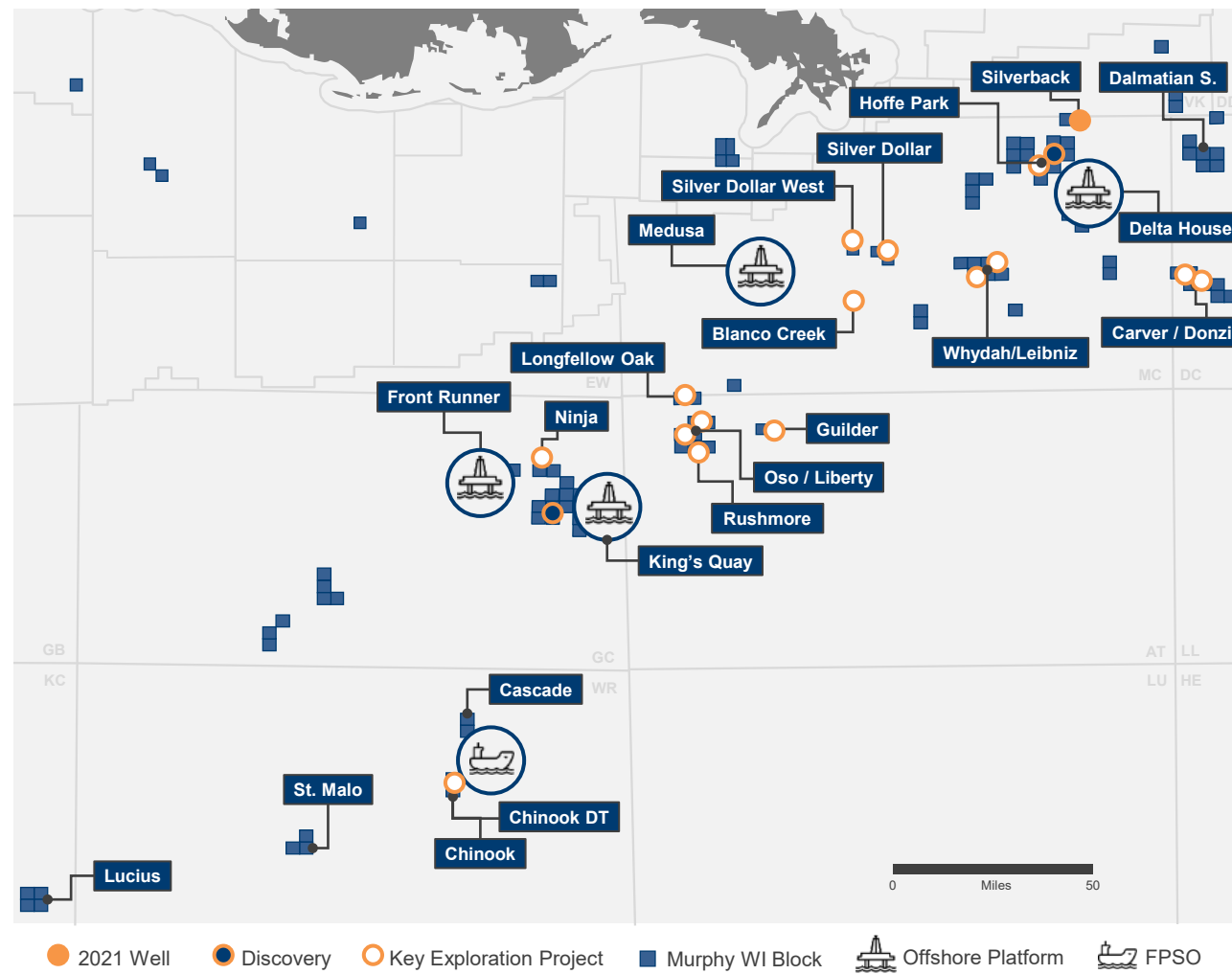
### Interests in 126 Gulf of Mexico OCS Blocks

- ~725,000 total gross acres, 54 exploration blocks
- ~1 BBOE gross resource potential
  - 15 key prospects

### Silverback #1 (Mississippi Canyon 35)

- Chevron 80% (Op), Murphy 10%, Ecopetrol 10%
- Targeting attractive, play-opening trend
- Spud 2Q 2021
- Farm-in results in access to 12 blocks via Silverback well participation

Gulf of Mexico Exploration Area



# 2021 Exploration Plan

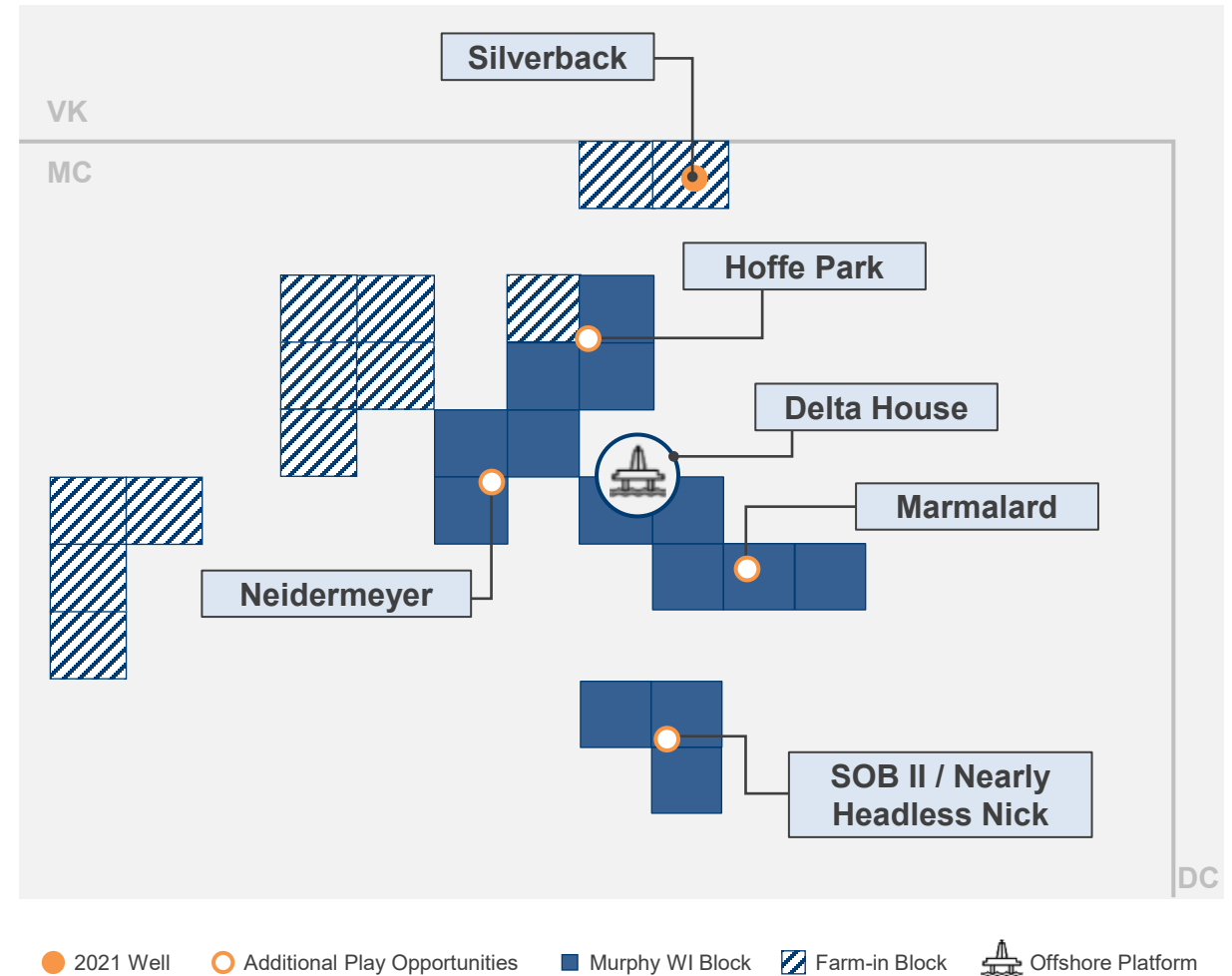
Gulf of Mexico – Mississippi Canyon 35

## Asset Overview

- Chevron 35% (Op), Shell 30%, Petronas 15%, Murphy 10%, Ecopetrol 10%
- Acreage is adjacent to large position held by Murphy and partners
  - Additional play opportunities
- Farm-in results in access to 12 blocks via Silverback well participation

## Silverback #1 (Mississippi Canyon 35)

- Targeting attractive, play-opening trend
- Spud 2Q 2021, results pending



# 2021 Exploration Plan

Northwest Borneo Basin, Brunei

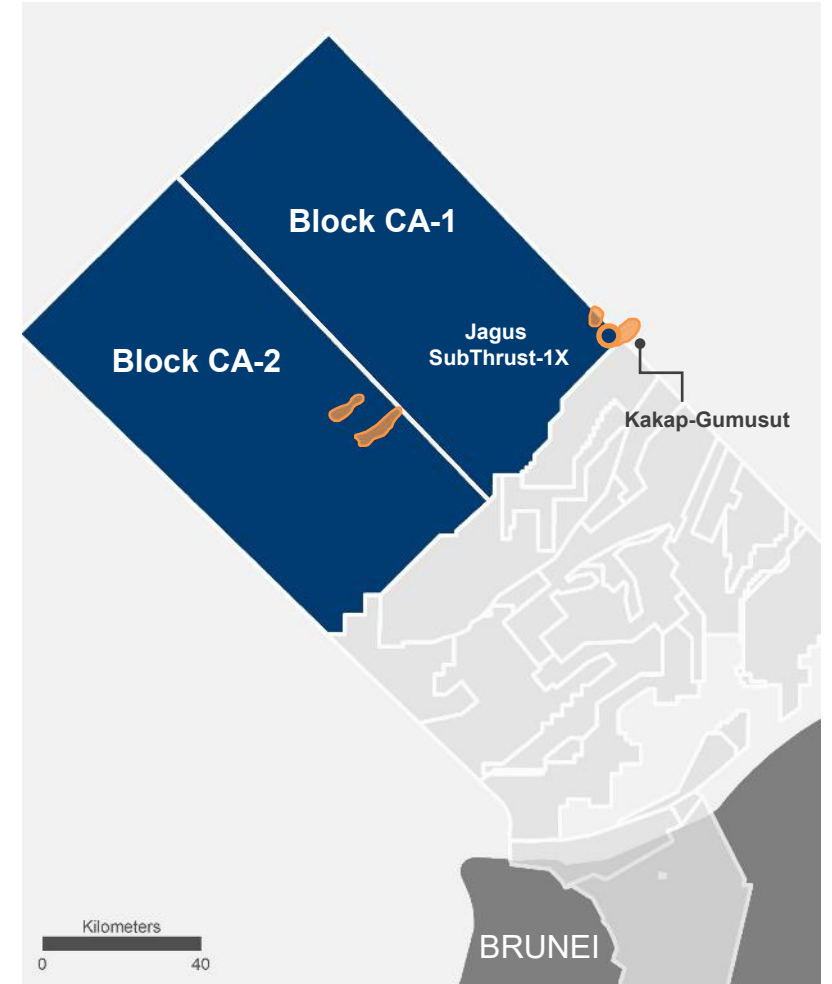
## Asset Overview

- Shell 86.949% (Op), Murphy 8.051%, Petronas 5%
- Partners assessing development and appraisal plan
- Block CA-1 reclassified as not held for sale

## Jagus SubThrust-1X (Block CA-1)

- Drilled discovery well, \$2.8 MM net cost
- Evaluating seismic data for remaining prospectivity

Northwest Borneo Basin



■ Murphy WI Block   ■ Other Block   ■ Discovery Field   ● Discovery Well

# 2021 Exploration Plan

Sergipe-Alagoas Basin, Brazil

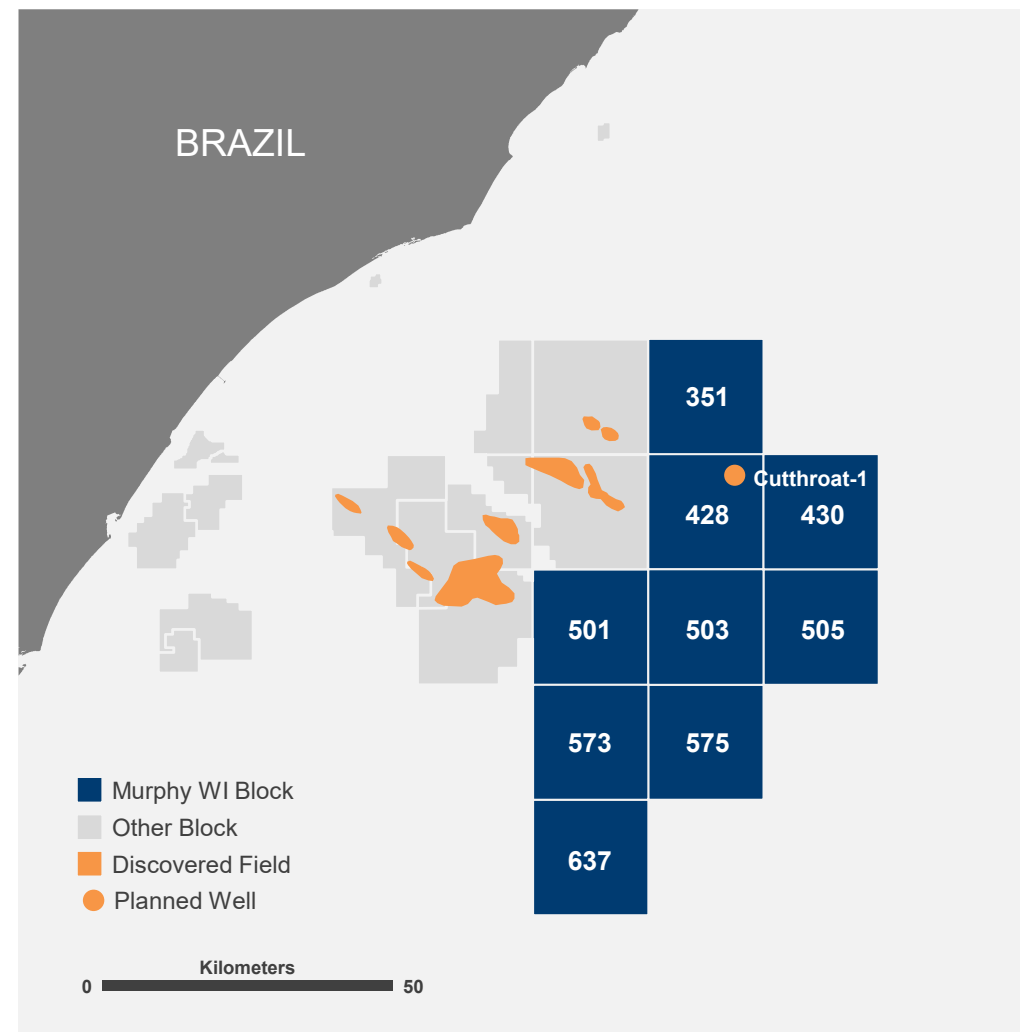
## Asset Overview

- ExxonMobil 50% (Op), Enauta Energia S.A. 30%, Murphy 20%
- Hold WI in 9 blocks, spanning >1.6 MM acres
- >2.8 BN BOE discovered in basin
- >1.2 BN BOE in deepwater since 2007
- Material opportunities identified on Murphy WI blocks

## Drilling Program

- On track for drilling Cutthroat-1 in 4Q 2021
  - ~\$15 MM net cost
- Mean to upward gross resource potential
  - 500 MMBOE – 1,050 MMBOE
- Continuing to mature inventory and plan future well timing

Sergipe-Alagoas Basin



All blocks begin with SEAL-M

# 2021 Exploration Update

Potiguar Basin, Brazil

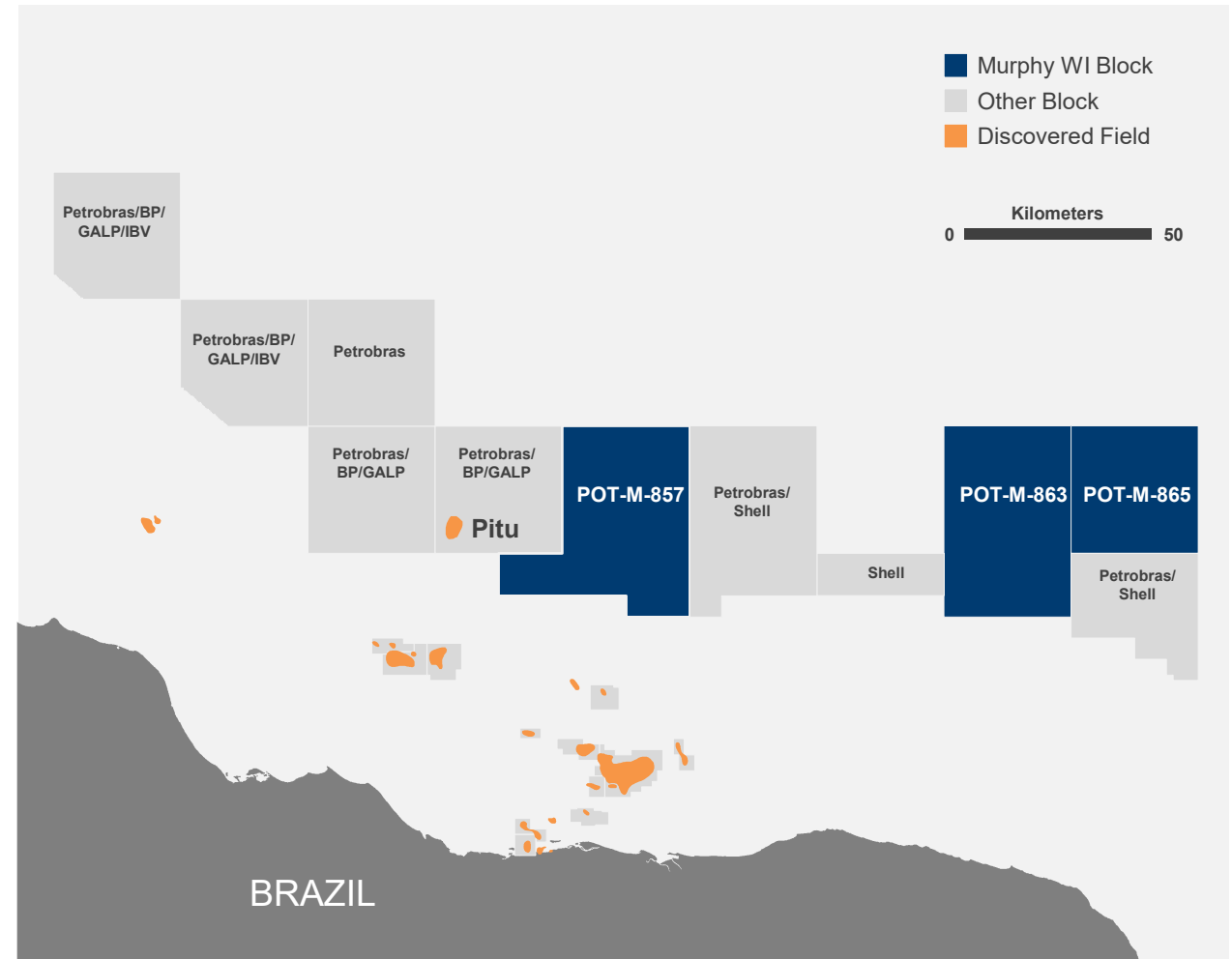
## Asset Overview

- Wintershall Dea 70% (Op), Murphy 30%
- Hold WI in 3 blocks, spanning ~775 M gross acres
- Proven oil basin in proximity to Pitu oil discovery

## Extending the Play into the Deepwater

- >2.1 BBOE discovered in basin
  - Onshore and shelf exploration
  - Pitu step-out into deepwater
- Interpreting final seismic data
- Targeting 2023 spud

Potiguar Basin



# 2021 Exploration Update

Salina Basin, Mexico

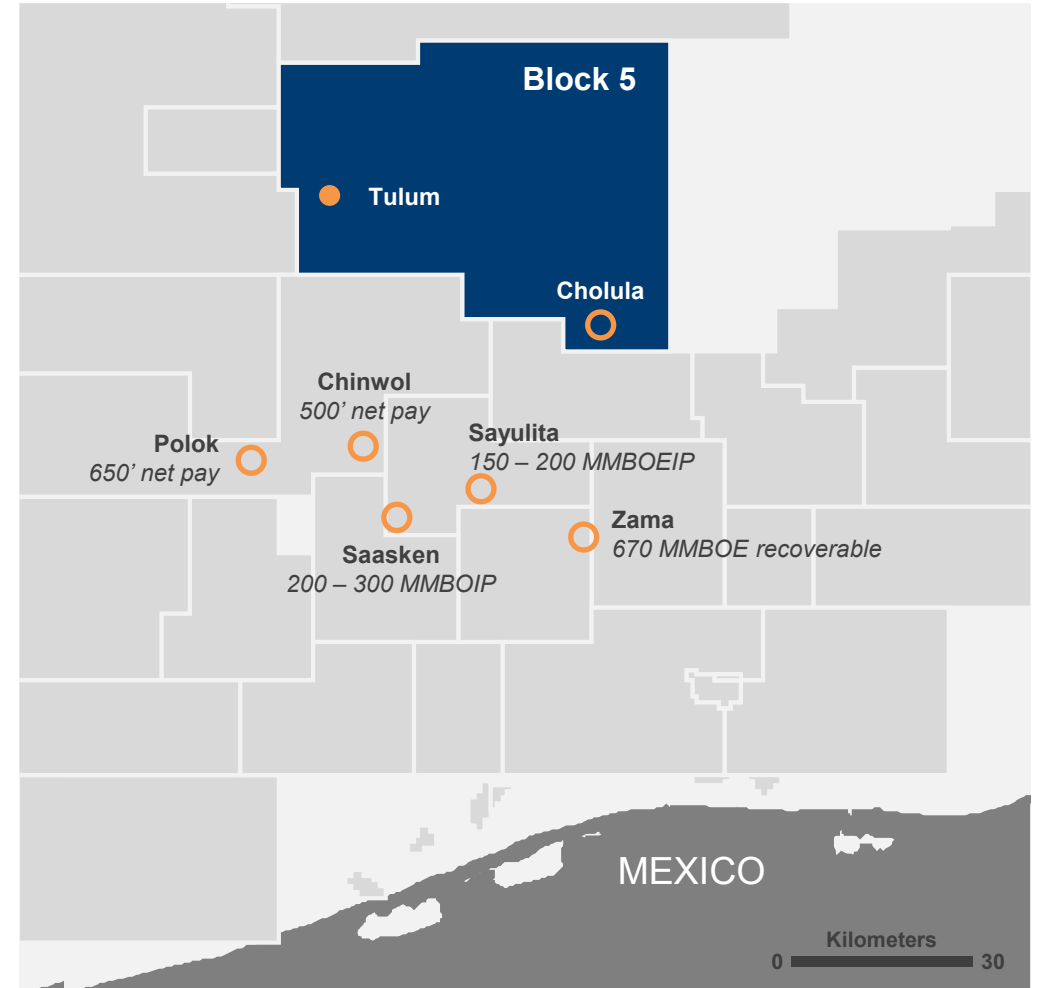
## Block 5 Overview

- Murphy 40% (Op), Petronas 30%, Wintershall Dea 30%
- 34 leads / prospects
- Mean to upward gross resource potential
  - 800 MMBO – 2,000 MMBO
- Proven oil basin in proximity to multiple oil discoveries in Miocene section
- Targeting exploration drilling campaign in 2022
  - Initial prospect identified – Tulum (fka Linares)
  - Progressing permitting and regulatory approvals

## Cholula Appraisal Program

- Discretionary 3-year program approved by CNH
- Up to 3 appraisal wells + geologic/engineering studies

Salina Basin



■ Murphy WI Block   ■ Other Block   ● Planned Well   ● Discovery

# Development Update

Cuu Long Basin, Vietnam

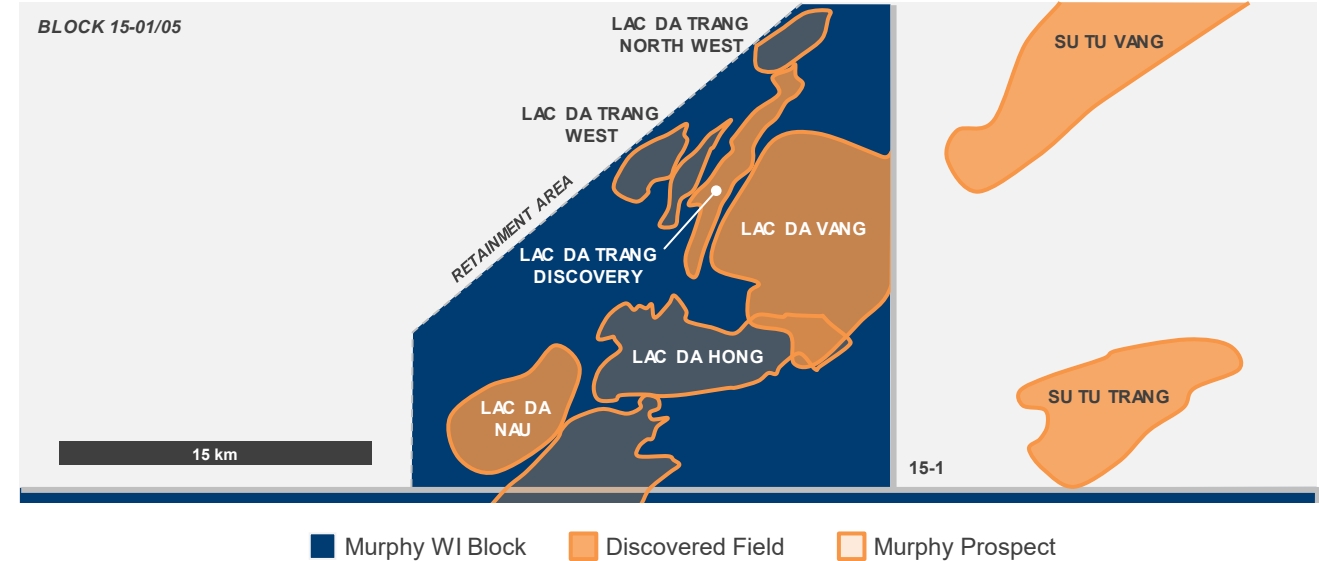
## Asset Overview

- Murphy 40% (Op), PVEP 35%, SKI 25%

## Block 15-1/05

- Received approval of the Lac Da Vang (LDV) retainment / development area
- LDV field development plan updated, resubmitted 1Q 2021
- LDT-1X discovery in 2019
- Maturing remaining block prospectivity
- LDT-1X discovery and other exploration upside has potential to add bolt-on resources to LDV

## Cuu Long Basin



# Exploration Update

Cuu Long Basin, Vietnam

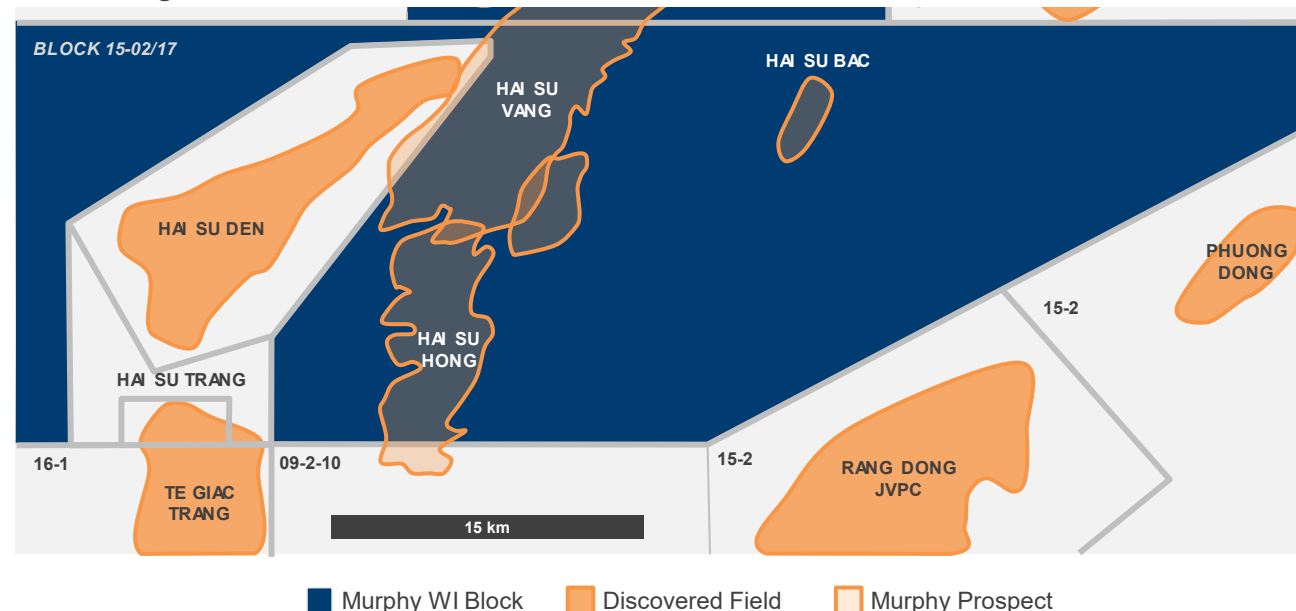
## Asset Overview

- Murphy 40% (Op), PVEP 35%, SKI 25%

## Block 15-2/17

- 3-year primary exploration period
- 1 well commitment by 4Q 2022
  - 2 initial prospects identified
- Seismic reprocessing, geological / geophysical studies ongoing

Cuu Long Basin





# SEPTEMBER INVESTOR PRESENTATION

SEPTEMBER 2021

**ROGER W. JENKINS**

PRESIDENT & CHIEF EXECUTIVE OFFICER