PARSLEY

Q1 2020
Earnings Presentation

May 2020

Important Disclosures

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Our production forecasts and expectations for future periods are dependent upon many assumptions, including the extent and duration of the recent swift and material decline in global demand for, and prices of, oil, natural gas and NGLs, the effect of an overhang of significant amounts of crude oil inventory stored in the U.S. and elsewhere, estimates of production decline rates from existing wells and the undertaking and outcome of future drilling activity.

Industry and Market Data

This presentation has been prepared by Parsley and includes market data and other statistical information from third-party sources, including independent industry publications, government publications or other published independent sources. Although Parsley believes these third-party sources are reliable as of their respective dates, Parsley has not independently verified the accuracy or completeness of this information. Some data are also based on Parsley’s good faith estimates, which are derived from its review of internal sources as well as the third-party sources described above.

Parsley Energy Overview

Recent Highlights

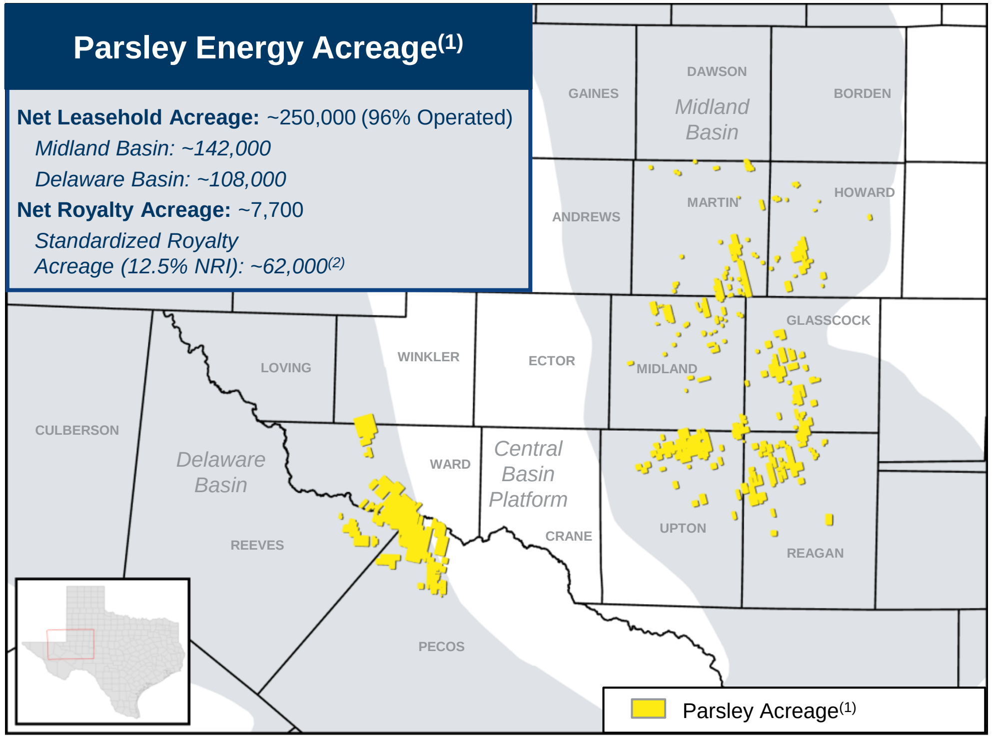
- Reinforced balance sheet strength
  - Lowered cost of debt and extended maturity profile with bond refinancing
  - Added hedges to further insulate cash flow
  - Extended credit facility maturity date to 4Q23 and increased commitment amount
- Successfully integrated Jagged Peak assets
- Lowered 1Q20 well costs through efficiency gains and synergy capture
- Proactive response to COVID-19-driven global oil demand crisis, protecting position as...

Premier Permian Pure-Play

- Strong balance sheet with increased liquidity
- Economies of scale and core inventory depth
- Advantaged operating margins and production flow assurance

Parsley Energy Acreage(1)

Net Leasehold Acreage: ~250,000 (96% Operated)
Midland Basin: ~142,000
Delaware Basin: ~108,000
Net Royalty Acreage: ~7,700
Standardized Royalty Acreage (12.5% NRI): ~62,000(2)



Market Snapshot(3)

NYSE Symbol: PE
Market Cap: $3,649 MM
Net Debt: $2,955 MM
Enterprise Value: $6,604 MM
Share Count: 413 MM

(1) As of 3/31/2020 pro forma for scheduled 2020 acreage expirations recorded in 4Q19 and 1Q20 and non-operated divestitures; (2) Parsley's ~7,700 net royalty acres are shown on a 100% NRI basis. If Parsley's royalty ownership is standardized to a 12.5%, or 1/8th, royalty interest, Parsley's net royalty acreage would equate to approximately 62,000 net royalty acres; (3) Market capitalization calculated using fully diluted share count of 413 MM shares (378 MM Class A shares plus 35 MM Class B shares) as of 5/1/2020 and closing price as of 5/1/2020. Net debt as of 3/31/2020. Net Debt is a non-GAAP financial measure defined as total debt less cash and cash equivalents. For a reconciliation of the non-GAAP financial measure of net debt to the most directly comparable GAAP financial measure, see slide 22; Enterprise Value is calculated as market capitalization plus net debt, where market capitalization is calculated as share price times the sum of Class A shares outstanding and Class B shares outstanding. Because non-controlling interest represents the portion of total book value of equity allocated to Class B shareholders, it is already represented in the enterprise value calculation by the inclusion of Class B shares in the calculation of market capitalization, and should not be added separately as a component of enterprise value.

Early Action Amplifies Long-Term Optionality

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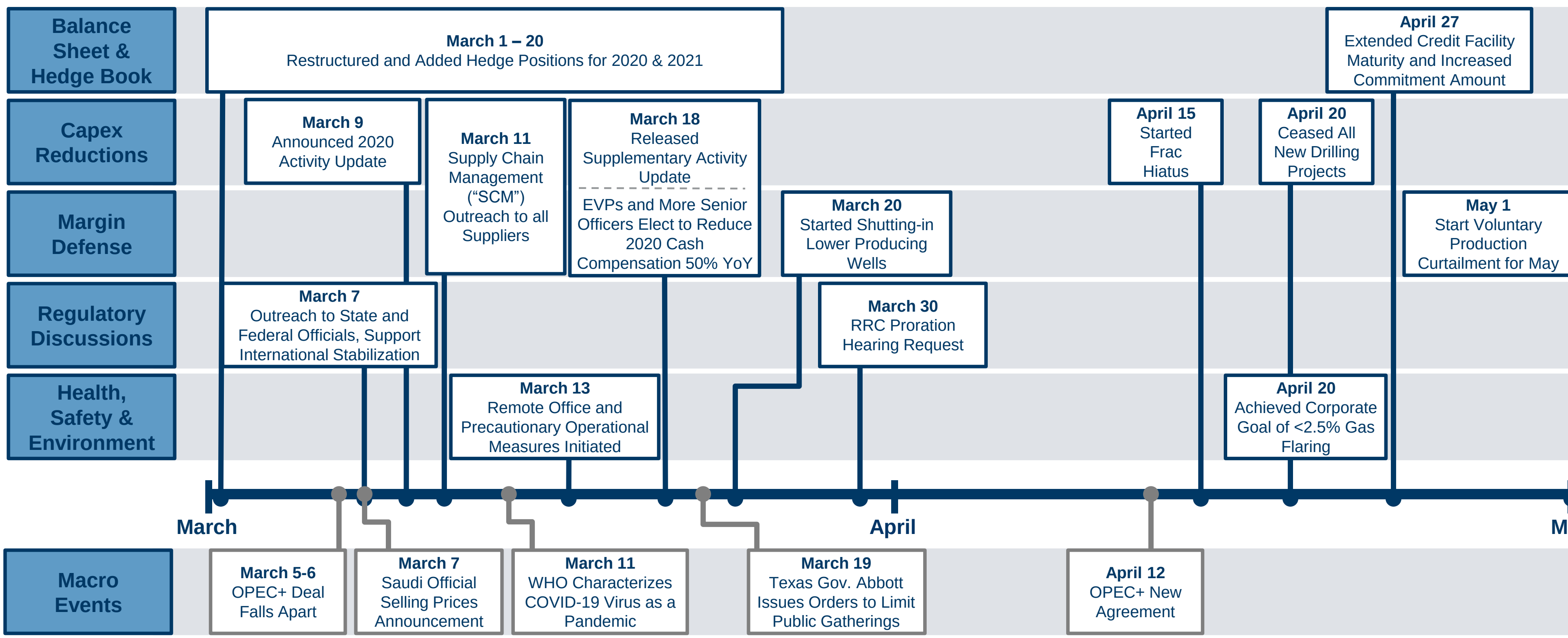
- Simultaneous supply and demand shocks struck the oil market in 1Q20
  - April global oil demand destruction from COVID-19 estimated at ~30%[1]
  - Significant production increases from Saudi Arabia, Russia and other producers
- Parsley's corporate agility and short cycle capital projects enhance adaptability
  - Swift action reinforced the resiliency of business model should lower oil prices persist for 12-18 months

Parsley Responded Decisively on Multiple Fronts…



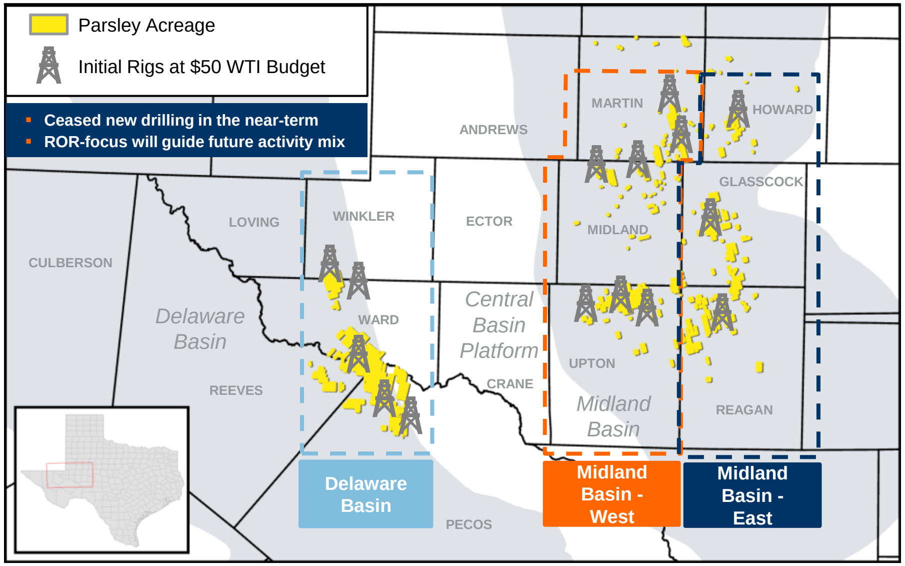
…to Adapt to Rapidly Changing Market Dynamics

(1) IEA April Oil Market Report - https://www.iea.org/reports/oil-market-report-april-2020.

Reducing Capital Spend – Activity Reductions

- Lowered 2020 capital budget to less than $700 million
  - 1Q20 capex of $379 million comprises >50% of full-year budget
- Capital allocation guided by Rate of Return focus
  - Investment decision based on unhedged economics
- 2020 capital program suspended with regional oil prices below $20 per barrel
  - Ceased new drilling; frac hiatus began in April
- Stabilized activity poised to resume when oil market fundamentals are more constructive
  - Lower activity levels allow further focused on high-grading returns

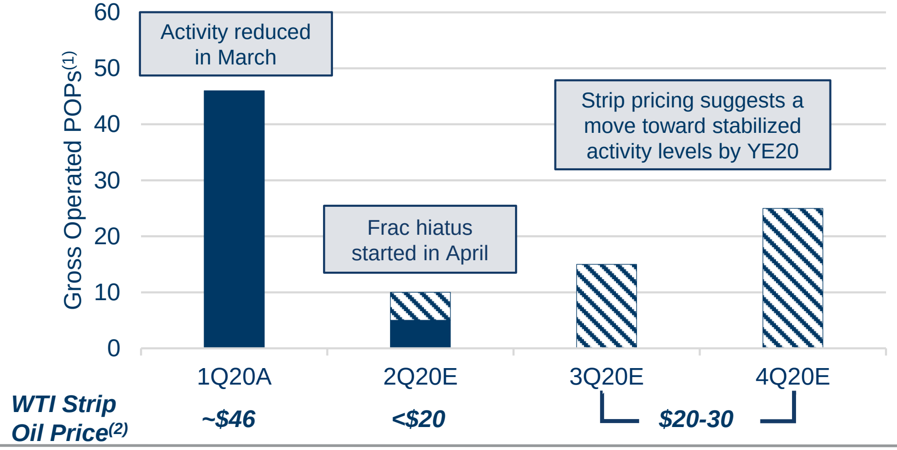
High-Grading Drilling Activity at Lower Oil Prices



2020 Activity Plans Remain Dynamic

		Initial Budget	Shutdown Sensitivity	Stabilized Activity
Base Case Oil Price		$50 WTI	<$20 WTI	~$30 WTI
Rigs		15 Rigs	Idled Rigs	4-5 Rigs
Frac Crews		4-5 Crews	Frac Hiatus	1-2 Crews
Quarterly POPs		45-50	0-10	15-25
Activity Breakdown	Midland West	~45%	N/A	~60%
	Midland East	~20%	N/A	~10%
	Delaware	~35%	N/A	~30%

Deferring Near-Term Completion Activity

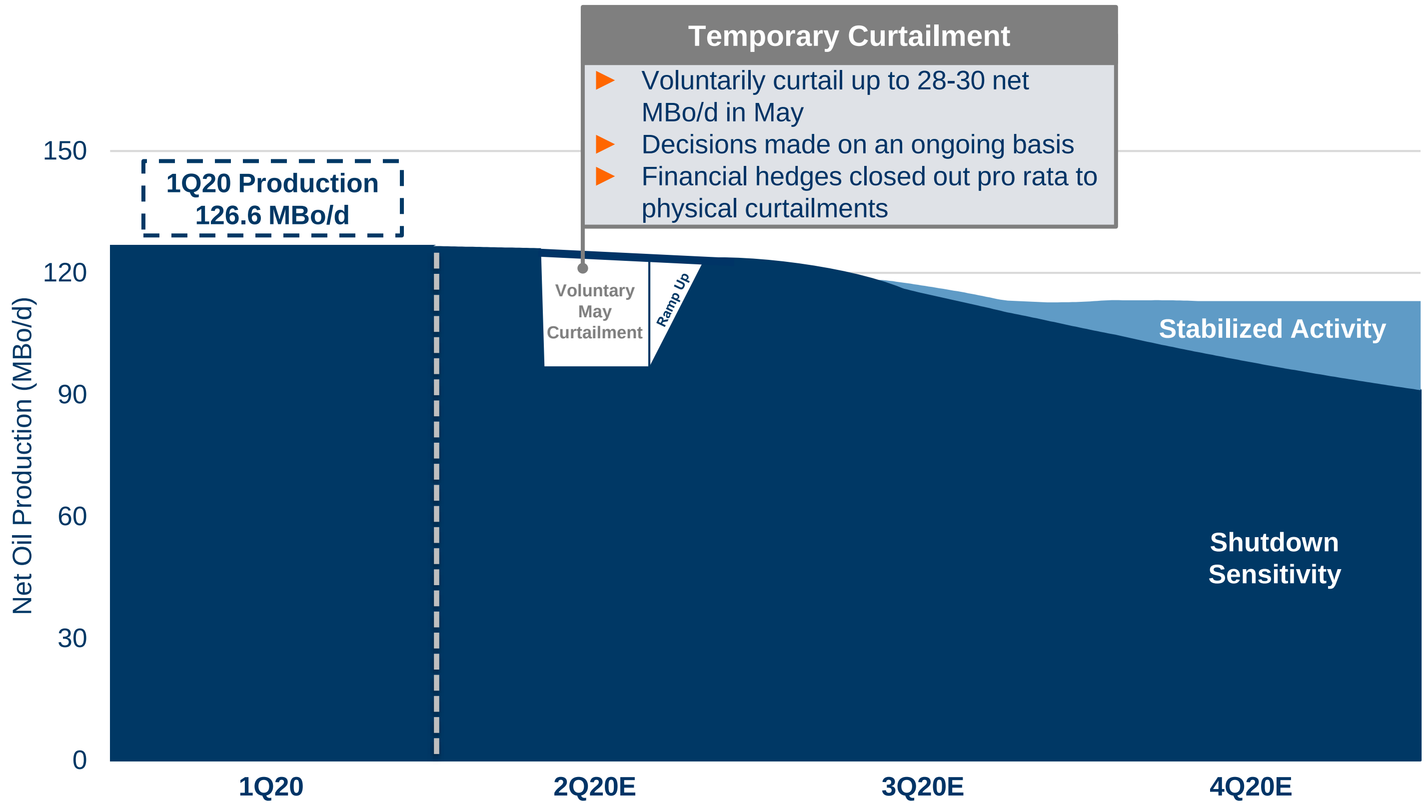


(1) Wells placed on production. Includes wells placed on production by Jagged Peak Energy Inc. ("Jagged Peak") between January 1, 2020 and January 10, 2020; (2) As of 5/1/2020.

Enduring with Relevance

- 2020 activity plans remain flexible pending market dynamics, but expect to **endure** with **relevance** in any scenario
  - Targeting at least \$300 million in free cash flow[1] in 2020 via Stabilized Activity model
  - Expecting to exit 2020 with healthy leverage, ample scale, and a shallower oil base decline
  - Reduced maintenance capital[4] increases visibility to sustained free cash flow[1] profile in 2021

Illustrative View of Possible 2020 Activity Plans



Stabilized Activity[2]

- Baseline capex program
- POP completed wells
- Complete DUC[3] wells
- Remaining 2020 capex ~\$300 MM
- 4Q20 annualized maintenance capital[4] \$550-\$650 MM

Shutdown Sensitivity

- No incremental capex
- "PDP blowdown" for remainder of 2020
- 4Q20 annualized maintenance capital[4] \$400-\$500 MM

(1) Free cash flow is a non-GAAP financial measure and is defined as net cash provided by operating activities before changes in operating assets and liabilities, net of acquisitions and acquisition and non-cash restructuring costs related to the acquisition of Jagged Peak, less accrual-based development capital expenditures. The Company is unable to present a reconciliation of forward-looking free cash flow because components of the calculation, including changes in working capital accounts, are inherently unpredictable. Additionally, estimating the most directly comparable GAAP measure with the required precision necessary to provide a meaningful reconciliation is extremely difficult and could not be accomplished without unreasonable effort; (2) Stabilized activity refers to an oil price environment of \$20-\$30 for the remainder of the year. In the event of continued market volatility and uncertainty, Parsley may change its capital plans accordingly. (3) Wells drilled but uncompleted. (4) Defined as the estimated annual capital investment required to hold 4Q20E oil production volumes flat for one year.

Activity Reductions – Voluntary Production Curtailment

- Expect to temporarily curtail up to 28-30 net MBo/d in May 2020
- Voluntary shut-in decisions driven by free cash flow analysis, shape of curve, and ESG initiatives
  - ~90% of operated volumes have variable lifting costs <$3/Boe
- Collaborative effort across multiple disciplines to ensure efficient and responsible production management
- Adjusting hedge volumes to align with anticipated curtailments

Proactive Curtailment Strategy for May 2020

Higher Unit Operating Cost ←→ Lower Unit Operating Cost

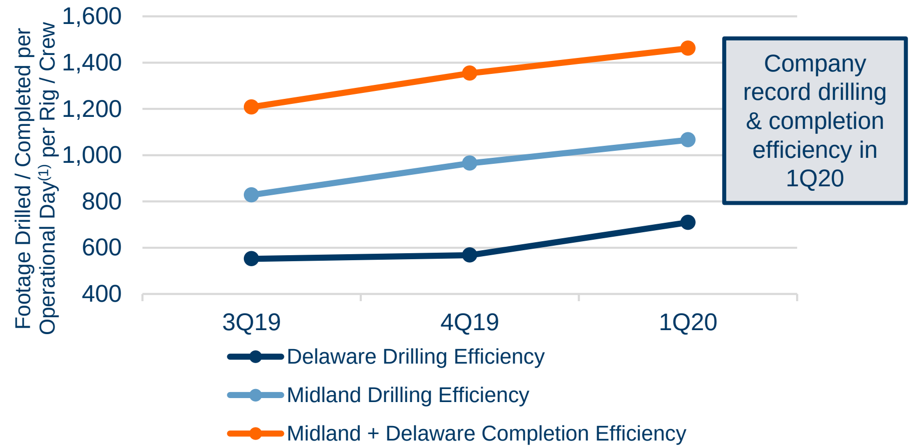
	Vertical Wells	Older Hz Wells	Gas-Flaring Wells	Remaining Production Volumes
May Production Curtailment (Net)	~1 MBo/d	~0.5 MBo/d	~4.5 MBo/d	~23 MBo/d
Methodology	Shut-ins	Shut-ins	Shut-ins	POP deferrals, volume management, and shut-ins
Rationale	Variable costs above estimated revenue	Variable costs above estimated revenue	ESG initiatives	Protect free cash flow
Estimated Duration	Dependent on oil price	Dependent on oil price	Various midstream solutions in process (1-3 months)	Dependent on contango(1) slope and oil price

(1) As used in this presentation, contango refers to a state where each future month price is higher than the subsequent month price.

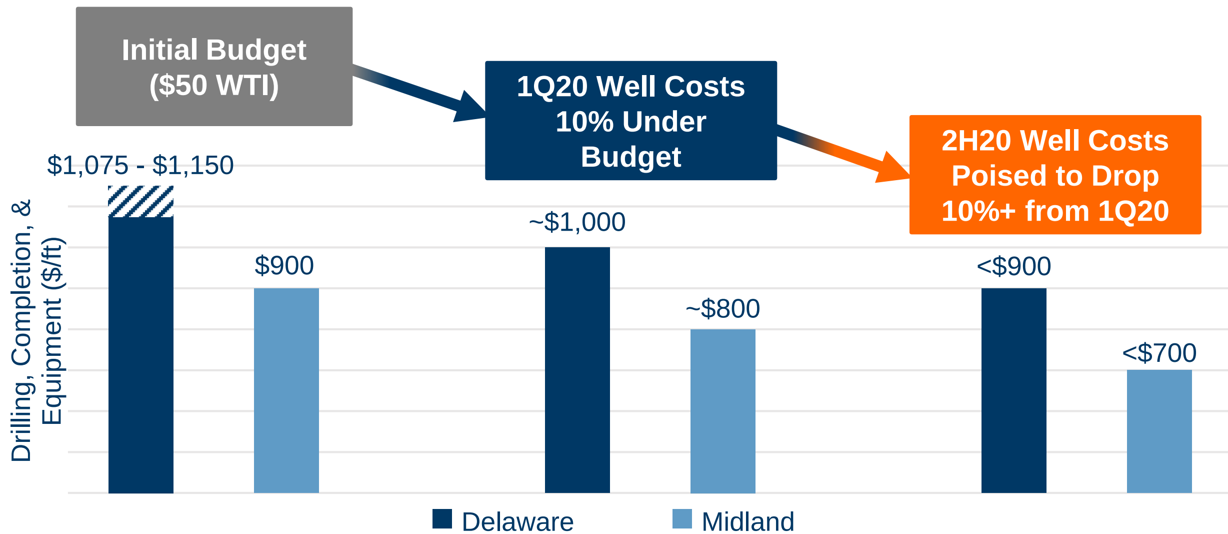
Reducing Capital Spend – Lower Well Costs

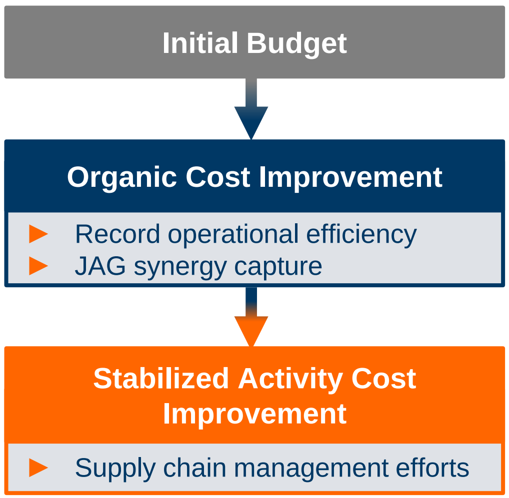
- Organic cost improvements in 1Q20 driven by cohesive integration efforts and sustained operational efficiency gains
- Comprehensive supplier outreach yielded price reductions across all spend categories
  - Positive feedback and significant participation from incumbent suppliers, limiting risk to supplier quality
  - No new activity commitments
- Anticipate 2H20 well costs to be 20%+ below initial 2020 budget

Defending and Extending Efficiency Gains[2]



Well Costs Recalibrating Lower





(1) Operational days measured as days equipment is active. Does not include mobilization or other idle time; (2) "Drilling efficiency" is measured based on drilled feet per operational day; "completion efficiency" is measured based on stimulated lateral length per operational day.

Margin Defense – Flowing Low Cost Barrels

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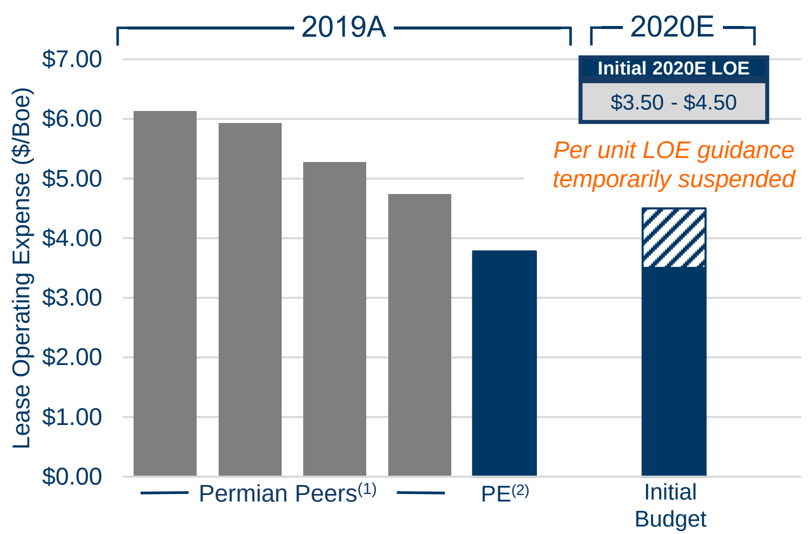
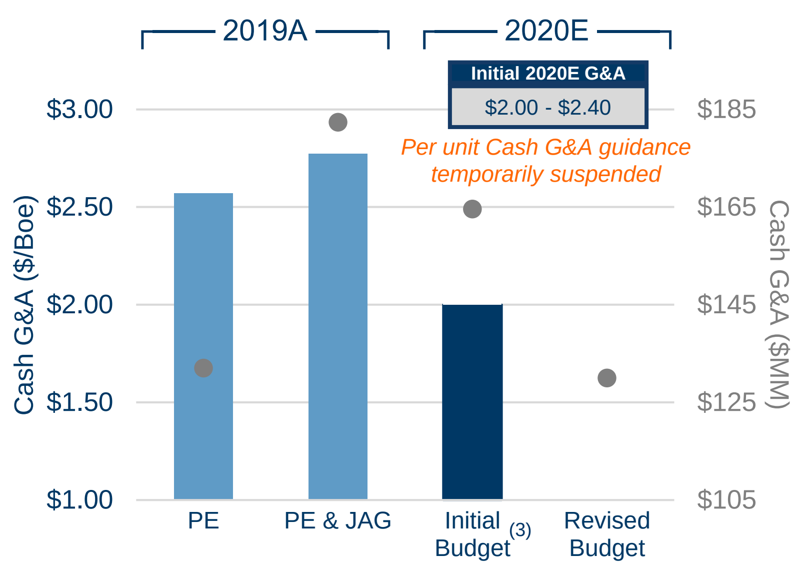
Low cost operators offer differentiation in a lower commodity price environment

- **LOE –** Maintaining a vigilant focus on costs to support margins:
  - Comprehensive supply chain management outreach secured reductions in key spend categories
  - Quickly moved to shut-in ~400 higher unit cost vertical and horizontal wells
  - Integrated water handling system helps reduce operating costs
- **G&A –** Attacking overhead costs from multiple angles:
  - Expedient integration of Jagged Peak helped accelerate timeline for synergy capture
  - EVPs and more senior officers elected to reduce respective 2020 cash compensation by at least 50% YoY

Defending Peer-Leading Lease Operating Expense



Reducing Cash General & Administrative Overhead



(1) Peers include CXO, FANG, PXD, and WPX; (2) Pro forma for acquisition of Jagged Peak; (3) Cash G&A ($MM) initial budget calculated using the midpoints of initial guidance ranges as of 2/19/2020.

Margin Defense – Advantaged Marketing Position

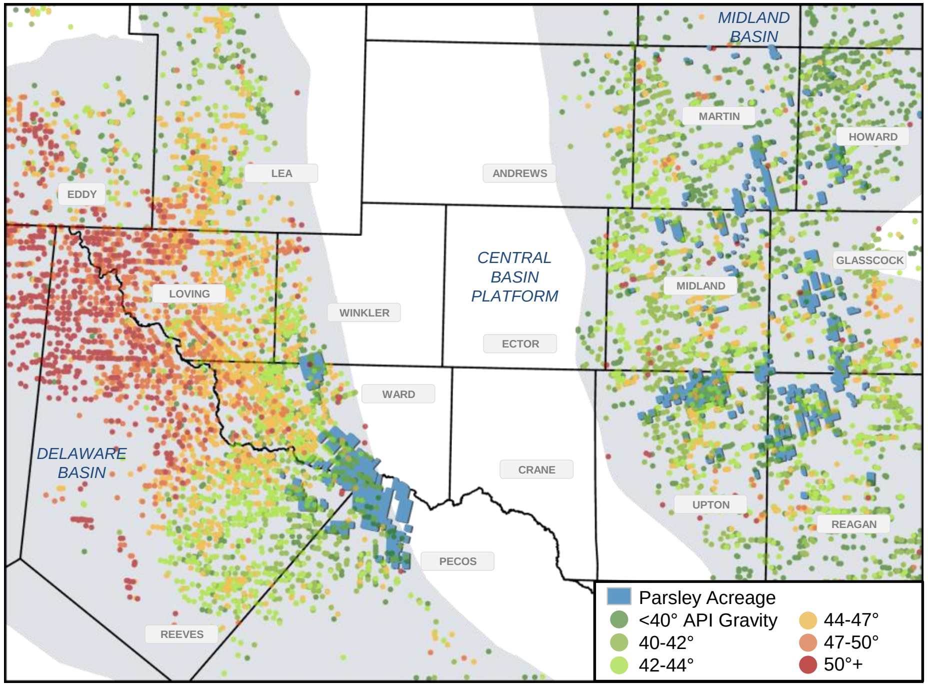
Marketing strategy centered around two guiding principles: **dependability** and **diversification**

- Parsley aims to insulate cash flow from regional oil price dislocations through proactive diversification
  - Sales contracts provide exposure to MEH, Brent and Midland benchmarks in 2020-2021
  - Broad portfolio marketing approach mitigates takeaway risk associated with an individual hub, pipeline, or port
  - Amended select firm transport agreements in 4Q19, reducing 2020 MVC exposure
  - Future upstream capital allocation decisions will not be motivated by midstream considerations

Marketing Flexibility and Strength

		Initial Budget	Shutdown Sensitivity	Stabilized Activity
Rigs		15 Rigs	Idled Rigs	4-5 Rigs
4Q20 FT w/ MVCs (MBo/d)		140 (Gross)	115 (Gross)	115 (Gross)
4Q20 FT w/o MVCs (MBo/d)		65 (Gross)	65 (Gross)	65 (Gross)
2020E Deficiency Payment[3]		$0	~$7 million	~$2 million
Oil Market	Midland	~45%	~25%	~35%
Oil Market	MEH	~40%	~55%	~50%
Oil Market	Brent	~15%	~20%	~15%

Permian API Gravity Sweet Spot[1]



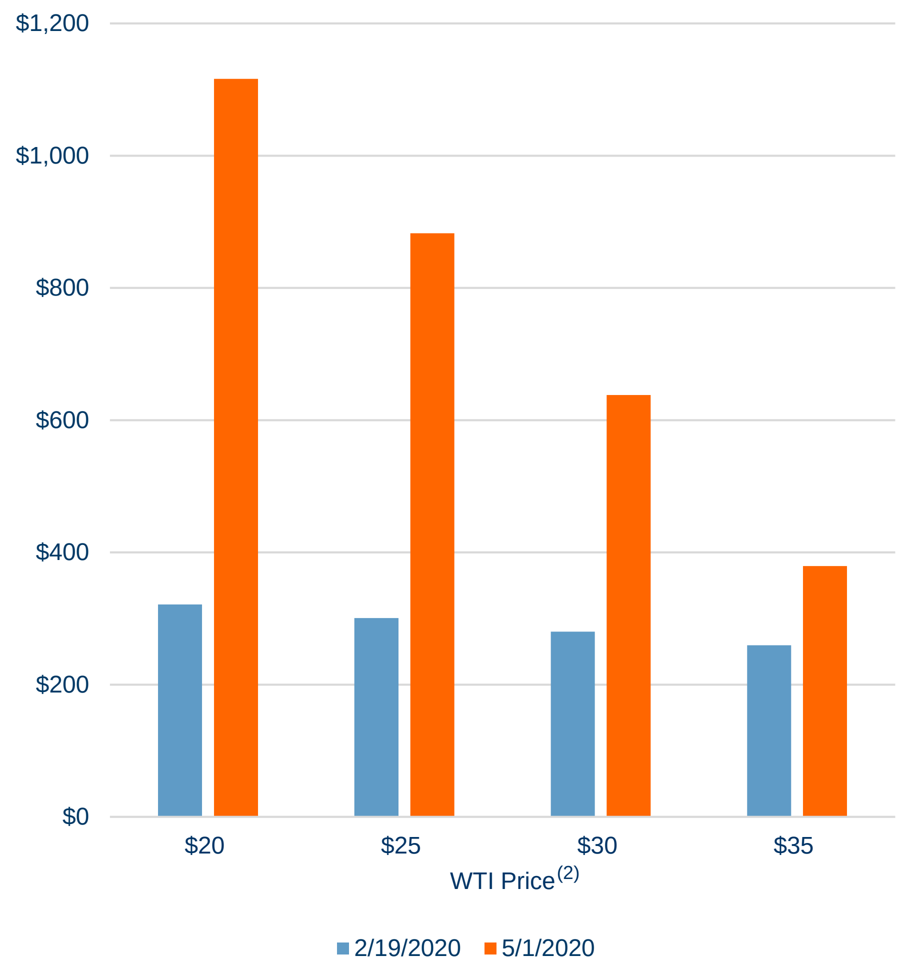
- Favorable oil quality with tight API gravity range across acreage footprint
  - Produced oil volumes register a weighted average API gravity of ~41°
  - Sales volumes not subject to WTL or WTS discounts[2]

(1) IHS. Horizontal wells only; (2) West Texas Light (WTL) Midland is defined as crude with an API gravity between 44.1° and 49.9° with a sulphur content less than 0.40%. West Texas Sour (WTS) is defined as crude with an API gravity between 30.0° and 38.0° with a sulphur content less than 2.50%. (3) Parsley does not expect to incur any firm transportation-related deficiency expenses as a result of voluntary production curtailments in May 2020. 2020E deficiency payments shown do not reflect voluntary production curtailments beyond May 2020.

Balance Sheet Defense – Bolstering Hedge Position

- Proactively managed hedge position during March and April, providing added protection against a prolonged downturn in oil prices
  - Restructured 2020 hedges, affording greater price certainty in a more volatile oil price environment
  - 82% of 2Q20 oil hedges comprised of swaps and two-way collars
  - Moved aggressively to protect 2021 cash flow through new swap positions above $40/Bbl
- Continue to align hedges with regional price exposure (settlements on Midland, MEH, Brent pricing)
- Current mark-to-market net value of ~$900 million at a flat $25 WTI oil price(2)

2Q20-4Q21 Net Hedge Settlements ($MM)(1)



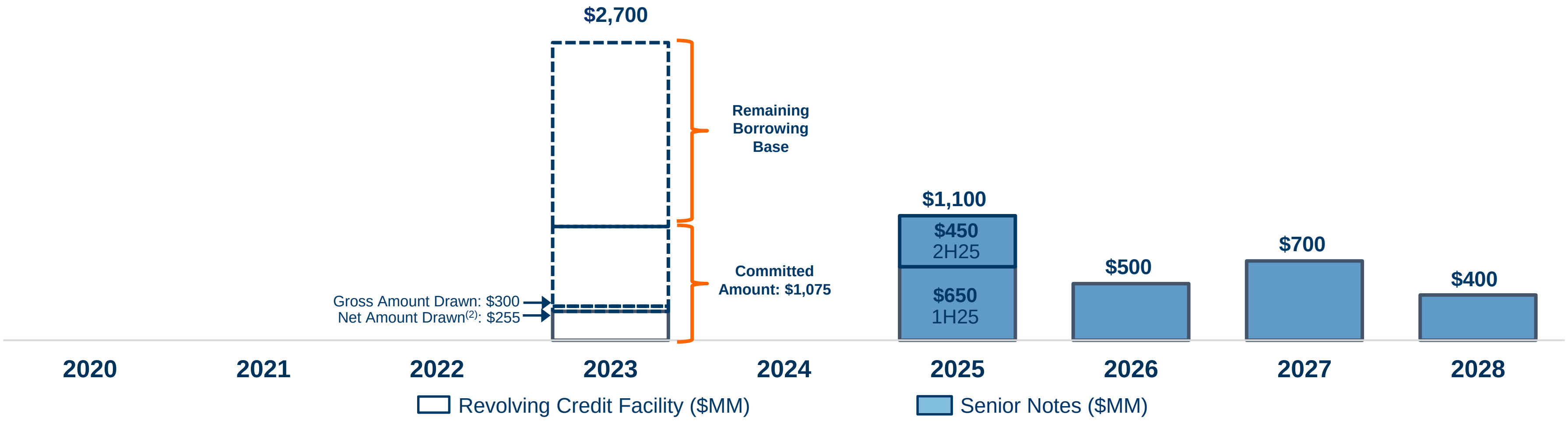
(1) Includes hedge settlements deferred premiums. Does not include impacts of rollfactor swaps; (2) Assumes flat WTI price, forward differentials as of 5/1/2020 for Brent, Magellan East Houston, and Midland benchmarks, and natural gas strip pricing as of 5/1/2020.

Strong, Flexible Financial Position

Maintains Healthy Leverage Profile with Ample Borrowing Capacity

- Large cash flow base and ample liquidity in a prolonged downturn scenario
  - Recently reaffirmed $2.7 billion borrowing base
  - Increased the elected commitment amount from $1.0 billion to $1.075 billion
- Increased scale and production levels accelerate path to an Investment Grade credit profile in stabilized oil price environment
  - Fitch Ratings recently initiated Investment Grade rating of BBB- with stable outlook
  - S&P reaffirmed BB rating in April 2020
  - Recently refinanced $400MM of senior notes at 4.125% interest rate, resulting in annual savings of nearly $9 million
- Restructured hedge position helps keep leverage profile healthy in a lower price environment

Favorable Debt Maturity Schedule[1]



(1) Debt outstanding as of 3/31/2020. Pro forma for amendment to the Company's revolving credit agreement announced 4/28/2020; (2) Net amount drawn on revolving credit facility reflects $300MM drawn net of $45MM of cash on hand as of 3/31/2020.

Revised 2020 Guidance Summary

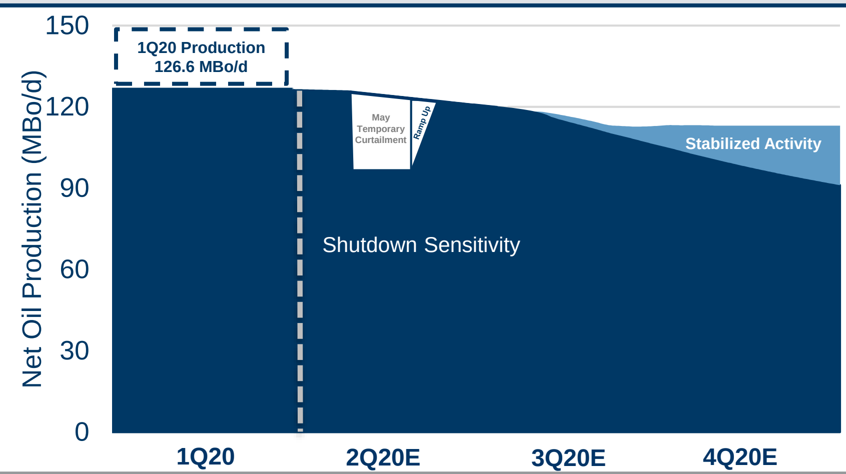
	Prior 2020 Guidance	Revised 2020 Guidance
Capital Program		
Total Development Expenditures ($MM)	$1,600 - $1,800	<$700
Drilling, Completion, & Equipment ($MM)	$1,500 - $1,650	<$650
Other ($MM)[1]	$100 - $150	~$50
Production		
Net Oil Production (MBo/d)	125-133	*Guidance on production temporarily suspended*
Net Production (MBoe/d)	200-210	
Activity		
Gross Operated Horizontal POPs[2]	~180-190	*Guidance on activity levels temporarily suspended*
Midland Basin (% of Total)	~65%	
Delaware Basin (% of Total)	~35%	
Average Lateral Length	9,500’ - 10,000'	
Gross Operated Lateral Footage (000's)	1,710' - 1,900'	
Average Working Interest	~90%	
Unit Costs		
Lease Operating Expenses ($/Boe)	$3.50 - $4.50	*Guidance on unit costs temporarily suspended*
Cash G&A ($/Boe)	$2.00 - $2.40	
Production & Ad Valorem Taxes (% of Total Revenue)	6.0% - 7.0%	

2020 Guidance Highlights[3]

Budgeting at $20-$30 for the remainder of 2020

- Suspending production, activity, and unit cost guidance given the challenging operating environment
- Preserve stable free cash flow[4] profile and protect balance sheet
  - Generate at least $300 million of free cash flow[4]
  - Maintain healthy leverage profile[5]
- 4Q20 Maintenance Capital[6] of $550-$650 million at stabilized activity
- Allocate capital based on prevailing market conditions
  - Incremental investment decisions will be evaluated based on unhedged returns
  - Short-cycle projects and contractual flexibility increase corporate agility

2020 Capital Program Remains Flexible



Prior guidance as of 2/19/2020. Revised guidance as of 5/4/2020; Base case budget assumes $20-$30 pricing. (1) Other capital expenditures includes non-operated activity, water infrastructure, gas gathering infrastructure, and geological/geophysical; (2) Wells placed on production. 2020 guidance includes wells placed on production by Jagged Peak between 1/1/2020 and 1/10/2020; (3) Except as otherwise stated, all estimates, projections and/or guidance contained in this press release are based on $20-$30 WTI oil price per barrel for the remainder of 2020. If the WTI oil price trades either below or above this range during all or a portion of the remainder of 2020, investors are cautioned that these estimates, projections and/or guidance would be materially impacted; (4) Free cash flow is a non-GAAP financial measure and is defined as net cash provided by operating activities before changes in operating assets and liabilities, net of acquisitions and acquisition and non-cash restructuring costs related to the acquisition of Jagged Peak, less accrual-based development capital expenditures. The Company is unable to present a reconciliation of forward-looking free cash flow because components of the calculation, including changes in working capital accounts, are inherently unpredictable. Additionally, estimating the most directly comparable GAAP measure with the required precision necessary to provide a meaningful reconciliation is extremely difficult and could not be accomplished without unreasonable effort; (5) Net leverage ratio calculated as net debt divided by trailing twelve months EBITDAX; (6) Defined as the estimated annual capital investment required to hold 4Q20E oil production volumes flat for one year.

Supplementary Slides

Hedge Position

Open Crude Oil Derivatives Positions

	2Q20	3Q20	4Q20	1Q21	2Q21	3Q21	4Q21
CUSHING							
Swaps - Cushing (MBbls/d)[1]	**11.0**	**11.0**	**11.0**				
Swap Price ($/Bbl)	$57.87	$57.87	$57.87				
MIDLAND							
Three Way Collars - Midland (MBbls/d)[2]		**4.6**	**13.8**				
Short Call Price ($/Bbl)		$55.00	$51.65				
Long Put Price ($/Bbl)		$40.00	$35.66				
Short Put Price ($/Bbl)		$30.00	$25.66				
Put Spreads - Midland (MBbls/d)[3]	**3.3**						
Long Put Price ($/Bbl)	$50.00						
Short Put Price ($/Bbl)	$40.00						
Two Way Collars - Midland (MBbls/d)[4]	**6.6**	**6.5**	**6.5**				
Short Call Price ($/Bbl)	$48.00	$48.00	$48.00				
Long Put Price ($/Bbl)	$43.00	$43.00	$43.00				
Swaps - Midland (MBbls/d)[1]	**21.5**	**12.5**	**3.3**	**5.0**	**5.0**	**5.0**	**5.0**
Swap Price ($/Bbl)	$31.83	$29.69	$32.60	$40.50	$40.50	$40.50	$40.50
MAGELLAN EAST HOUSTON ("MEH")							
Three Way Collars - MEH (MBbls/d)[2]	**7.9**	**10.8**	**24.1**	**13.3**	**13.2**	**2.4**	**2.4**
Short Call Price ($/Bbl)	$55.00	$55.00	$51.22	$64.38	$64.38	$55.00	$55.00
Long Put Price ($/Bbl)	$40.00	$40.00	$37.23	$53.13	$53.13	$40.00	$40.00
Short Put Price ($/Bbl)	$30.00	$30.00	$27.23	$43.13	$43.13	$30.00	$30.00
Put Spreads - MEH (MBbl/d)[3]	**8.2**	**29.3**	**29.3**				
Long Put Price ($/Bbl)	$50.00	$36.11	$36.11				
Short Put Price ($/Bbl)	$40.00	$26.11	$26.11				
Swaps - MEH (MBbls/d)[1]	**35.8**	**29.0**	**15.7**	**52.0**	**52.0**	**52.0**	**52.0**
Swap Price ($/Bbl)	$29.58	$35.24	$39.28	$40.74	$40.74	$40.74	$40.74
BRENT							
Two Way Collars - Brent (MBbls/d)[4]	**3.3**	**6.5**	**6.5**				
Short Call Price ($/Bbl)	$52.10	$52.30	$52.30				
Long Put Price ($/Bbl)	$47.10	$47.30	$47.30				
Swaps - Brent (MBbls/d)[1]	**7.9**	**11.2**	**6.3**	**22.0**	**22.0**	**22.0**	**22.0**
Swap Price ($/Bbl)	$44.81	$41.77	$47.40	$44.46	$44.46	$44.46	$44.46
Total Hedged Volumes (MBbls/d)	**105.6**	**121.4**	**116.5**	**92.3**	**92.2**	**81.4**	**81.4**
Premium Realization ($MM)[5]	**$8.1**	**$7.3**	**$7.3**	**($2.0)**	**($2.0)**	**($0.7)**	**($0.7)**
Fixed Future Settlements ($MM)[6]	**$16.7**						

Hedging Strategy

- More swaps, fewer three-way collars
- Align hedges with regional price exposure
- Support capital structure and leverage objectives. Expect net settlement gains of ~$700 million through 2021 at strip oil prices[9].

Open Basis and Rollfactor Derivatives Positions

	2Q20	3Q20	4Q20
BASIS SWAPS:			
Midland-Cushing Basis Swaps (MBbls/d)[7]	**18.9**	**14.0**	**14.0**
Basis Differential ($/Bbl)	$ (1.00)	$ (1.44)	$ (1.44)
ROLLFACTOR SWAPS:			
Rollfactor Swaps (MBbls/d)[8]	**12.1**	**35.9**	**35.9**
Basis Differential ($/Bbl)	$ (2.44)	$ (2.44)	$ (2.44)

Open Natural Gas Derivatives Positions

	2Q20	3Q20	4Q20
WAHA			
Swaps - Waha (MMBtu/d)[1]	**48,242**	**48,152**	**48,152**
Swap Price ($/MMBtu)	$ 0.70	$ 0.90	$ 0.86

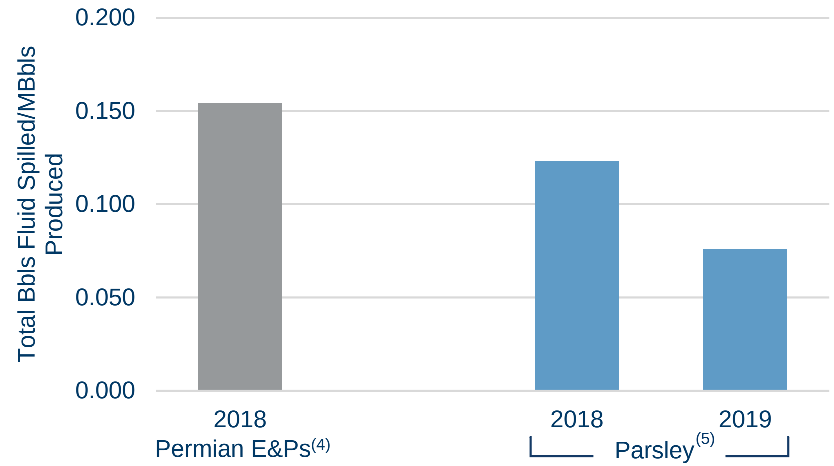
Hedge positions as of 5/1/2020. Prices represent the weighted average price of contracts scheduled for settlement during the period; (1) Parsley receives the swap price; (2) When the reference price (Midland, MEH, or Brent) is at or above the short call price, Parsley receives the short call price. When the reference price is between the long put price and the short put price, Parsley receives the long put price. When the reference price is below the short put price, Parsley receives the reference price plus the difference between the short put price and the long put price; (3) When the reference price is above the long put price, Parsley receives the reference price. When the reference price is between the long put price and the short put price, Parsley receives the long put price. When the reference price is below the short put price, Parsley receives the reference price plus the difference between the short put price and the long put price; (4) When the reference price is above the short call price, Parsley receives the short call price. When the reference price is between the short call price and the put price, Parsley receives the reference price. When the reference price is below the put price, Parsley receives the put price; (5) Premium realizations represent net premiums paid (including deferred premiums), which are recognized as income or loss in the period of settlement; (6) Dollar value of expected net settlements from monetization of certain MEH and Midland swap contracts. Monetized swap contracts have been eliminated by offsetting swaps and are not represented in the chart above. (7) Swaps that fix the basis differentials representing the index prices at which Parsley sells its oil and gas produced in the Permian Basin less the WTI Cushing price; (8) These positions hedge the timing risk associated with Parsley's physical sales. Parsley generally sells crude oil for the delivery month at a sales price based on the average reference price during that month, plus an adjustment calculated as a spread between the weighted average prices of the delivery month, the next month, and the following month during the period when the delivery month is the first month; (9) Strip pricing as of 5/1/2020.

Committed to ESG Leadership

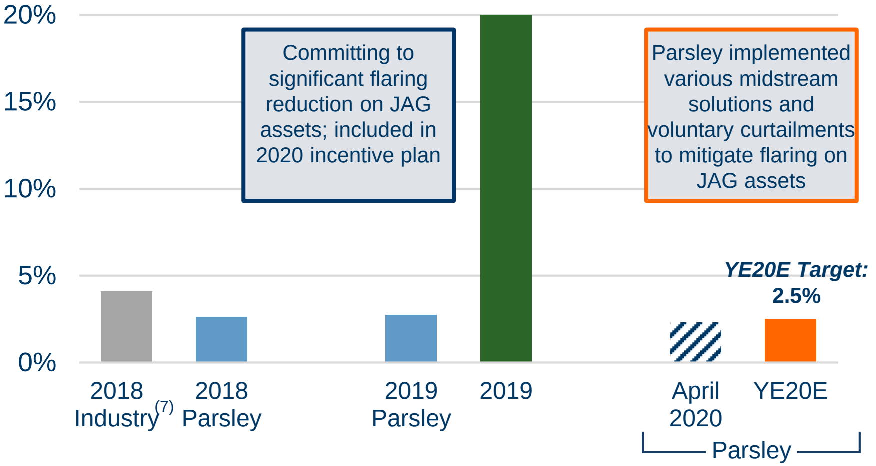
PARSLEY

- Conducted materiality assessment following the Global Reporting Initiative (GRI) framework of topic identification, stakeholder feedback, prioritization, and senior leader validation
- Reported data includes metrics on emissions, flaring, spills, and safety
- Improved significantly in recent years
  - 62% reduction in Total Fluid Spill Rate (2016-2019)[(1)]
  - 15% reduction in Flaring Intensity (2016-2019)[(2)]
  - 19% reduction in GHG Emissions Intensity (2016-2019)[(3)]

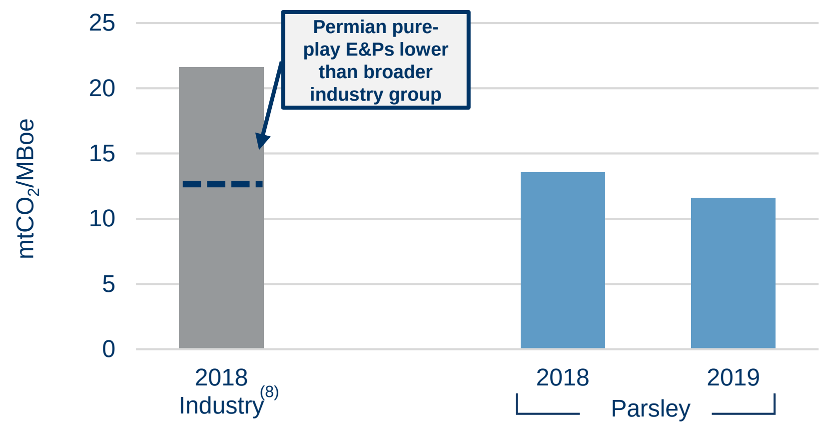
Total Fluid Spill Rate[(1)]



Flared Gas Volumes[(5)]



GHG Emissions Intensity[(3)]



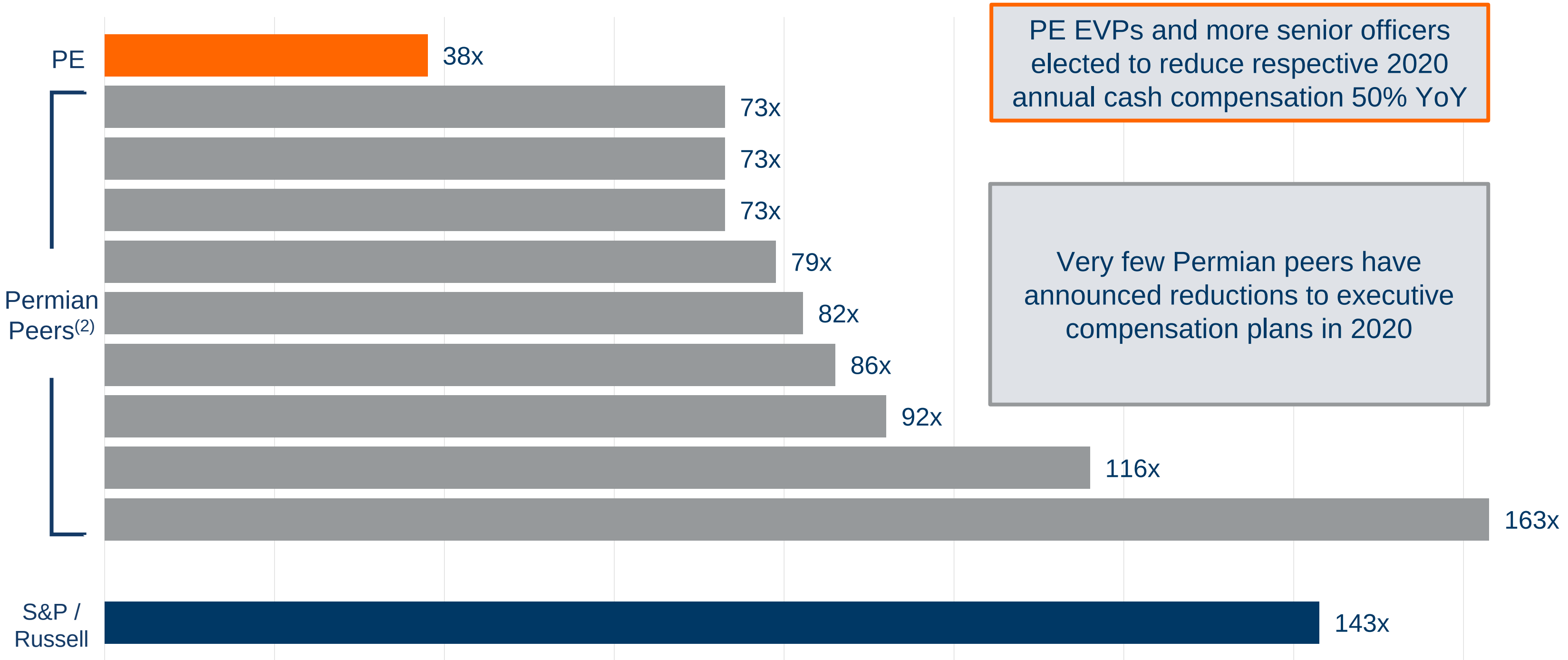
(1) Calculated as the total Bbls of fluid spilled divided by MBbls produced; (2) Calculated as MCF flared divided by MBOE production; (3) Scope 1 greenhouse gas (“GHG”) emissions, calculated as mtCO2 divided by MBOE production; (4) Source: Permian Basin Petroleum Association’s “2018 HSE Benchmarking Survey”; (5) Parsley records all spills that leave the primary container (well, flowline, gathering line, truck or facility piping, vessels, tanks, etc.) regardless of volume. This includes spills that are reportable to a regulatory agency and non-reportable spills; (6) Represents the percentage of Permian gas production flared. Includes flared gas from completions, well testing, tank emissions, and gas shut-ins and curtailments; (7) Source: Rystad Energy. Reflects median of following companies: Admiral Permian Resources, APA, BP, BTA Oil Producers, Capitan Energy, CDEV, COP, CPE, CrownQuest, CRZO, CVX, CXO, Discovery Natural Resources, DVN, ECA, Endeavor Energy Resources, EOG, EPEG, FANG, Fasken Oil and Ranch, Hunt Oil, JAG, LPI, Mewbourne Oil Company, MRO, MTDR, NBL, OXY, PDC, PXD, QEP, RDS, Sable Permian Resources, SM, Surge Energy, WPX, XEC, and XOM; (8) Source: company reports. Companies include BP, COP, CVX, DVN, EOG, FANG, HES, MRO, NBL, OXY, and PXD.

Committed to ESG Leadership

- Attacking overhead costs from multiple angles
  - EVPs and more senior officers elected to reduce respective 2020 cash compensation by at least 50% YoY
- Significant insider ownership aligns incentives with public shareholders
  - Parsley insiders own over 20% of Parsley's equity, more than 6x next closest Permian peer(2)

Leading by Example on Executive Compensation

2019 CEO Pay Ratio(1)



2020 Plans

PE EVPs and more senior officers elected to reduce respective 2020 annual cash compensation 50% YoY

Very few Permian peers have announced reductions to executive compensation plans in 2020

(1) CEO Pay Ratio is defined as the CEO's total annual compensation divided by the total annual compensation of the median employee; (2) Peers include COP, CXO, EOG, FANG, NBL, OXY, PXD, WPX, and XEC.

Sources: Company filings, Bloomberg, FactSet; https://www.bloomberg.com/graphics/ceo-pay-ratio/

JAG Synergy Scorecard Update

- Stock-for-stock, low-premium transaction ensured synergies accrue to all shareholders
  - Modest premium was materially below present value of estimated G&A synergies(1)
- Integration success aligns with go-forward incentive plan for all Parsley employees

	JAG Acquisition Commentary (October 2019)	Integration Progress (May 2020)
Primary Synergy Remains on Track		
General & Administrative and Operational	▶ Austin-based company with a single management team ▶ **G&A and operational synergies** expected to be realized in near term ▪ ~$25mm in 2020 and $40-50mm in 2021+ ▪ PV-10 of ~$250-$300 million(1)	▶ Expedient closing helps de-risk synergy capture ▶ Transition of operational staff concluded in 1Q20 ▪ Identified full-time need for ~20% of JAG employees including field personnel ▪ Denver office closed in 2Q20
Additional Synergies In Process		
Capital Efficiency Gains	▶ Well cost savings based on applying Parsley cost metrics to Jagged Peak inventory	▶ Operational teams have been fully integrated ▶ Achieved 1Q20 Delaware well costs 10% below initial budget
Contiguous Acreage	▶ Land synergies driven by extending laterals and eliminating lease line buffers	▶ Four to six wells expected to be drilled on adjacent acreage over the next 12 months(2)
Development Pace Flexibility	▶ Expanded footprint and increased scale allows for schedule optimization ▶ Enhances ability to return capital to shareholders	▶ Possess commercial flexibility to further moderate activity if less equipment is needed
Water Infrastructure	▶ Potential to expand ongoing Parsley water infrastructure-related strategic initiatives	▶ Integration of JAG water infrastructure assets on track
Cost of Capital	▶ Accelerates progress toward investment grade credit profile and helps facilitate opportunistic debt refinancing in the future	▶ Refinanced $400mm of senior notes at 4.125% ▶ Fitch initiated with Investment Grade credit rating of BBB- (Feb 2020) ▶ S&P upgrade to BB (Jan 2020) ▶ Moody's rating of Ba2 (Oct 2019)

(1) PV-10 is defined as the present value of future cash flows utilizing a 10% discount rate. PV-10 range reflects estimated 10-year low and high end synergy total (2) Under a stabilized activity scenario.

Margin Defense – Parsley Water Company

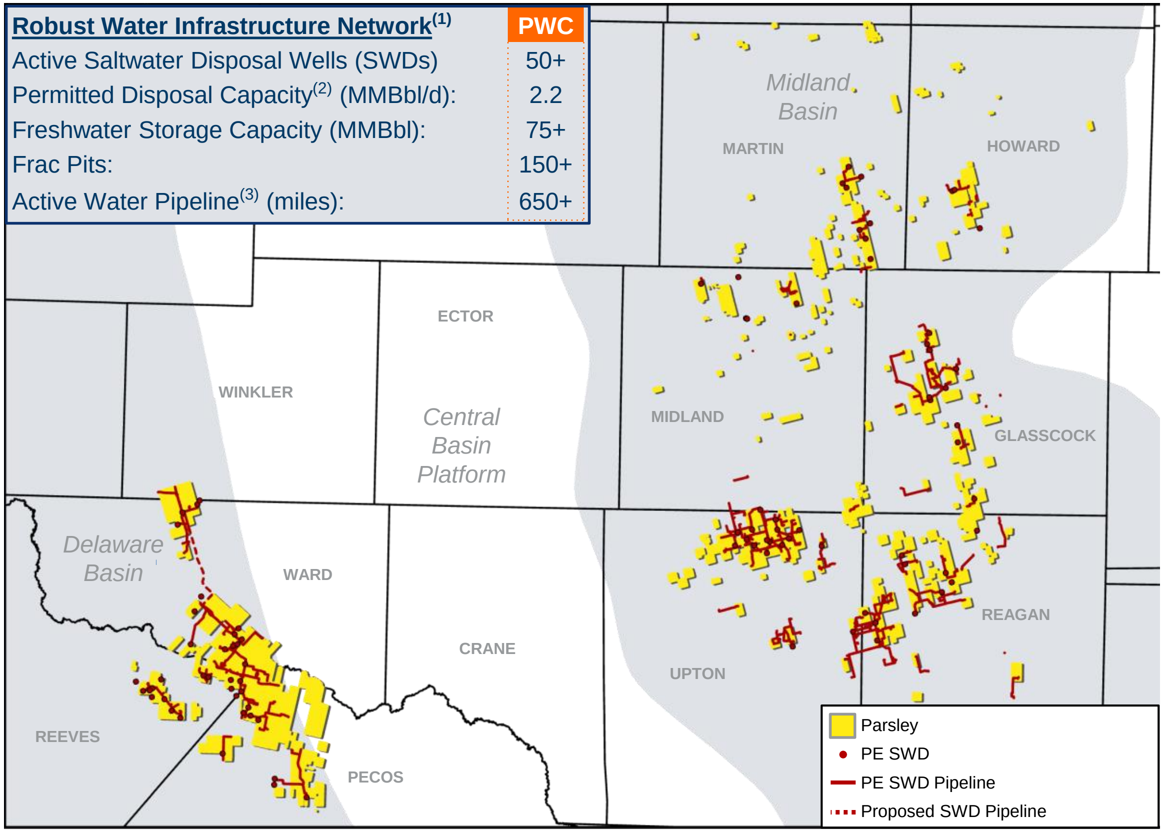
Dedicated Internal Water Team

PWC continues to aid in capital and operating cost efficiencies:

- **Increased Accountability:**
  - Water-focused internal management team
  - Internal segment reporting increases performance management
- **Lower Costs:**
  - Evaluating more permanent power tie-ins
  - Establishing more efficient business processes
  - Assessing recycling opportunities
- **Higher Asset Utilization:**
  - New storage level metering system
  - Improved forecasting and planning

Water Assets Overview

Robust Water Infrastructure Network[1]	PWC
Active Saltwater Disposal Wells (SWDs)	50+
Permitted Disposal Capacity[2] (MMBbl/d):	2.2
Freshwater Storage Capacity (MMBbl):	75+
Frac Pits:	150+
Active Water Pipeline[3] (miles):	650+



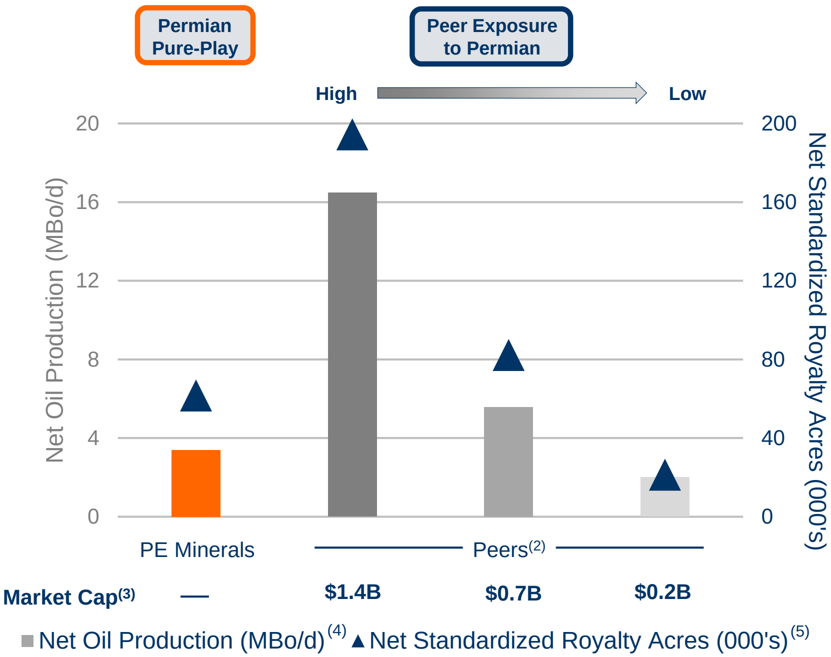
(1) As of 3/31/2020; (2) Includes existing and permitted operated SWDs; (3) Includes fresh water and produced water pipelines.

Margin Defense – Minerals Ownership

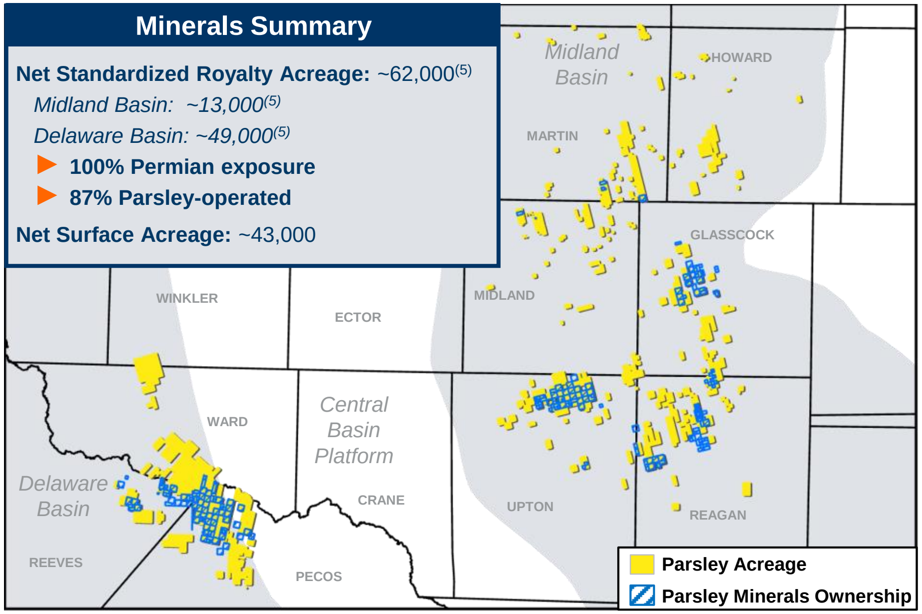
PARSLEY

- Minerals ownership enhances Parsley's sustainable free cash flow profile(1)
  - Adds high margin production without any associated capex or operating expenses and limited exposure with reduced development
  - Surface ownership can generate secondary cash flow stream, offering additional upside
  - High degree of Parsley operatorship improves visibility of development and cash flow timing
- Group of several public mineral companies provides more valuation markers for asset class

Comparable Public Minerals Companies



Parsley Minerals Ownership



(1) Free cash flow is a non-GAAP financial measure and is defined as net cash provided by operating activities before changes in operating assets and liabilities, net of acquisitions and acquisition and non-cash restructuring costs related to the acquisition of Jagged Peak, less accrual-based development capital expenditures; (2) Public filings. Peers include FLMN, MNRL, and VNOM; (3) Market capitalization for peers calculated using closing prices as of 5/01/2020 and is not pro forma for pending transactions; (4) 4Q19 oil production attributable to Parsley's minerals ownership. Peer production period based on latest reported quarterly figures and is not pro forma for pending transactions; (5) Royalty ownership standardized to a 12.5%, or 1/8th, royalty interest and is not pro forma for pending transactions.

Free Cash Flow (Outspend) & Discretionary CFPS Reconciliations

Free Cash Flow (Outspend):

Unaudited, in thousands	Three Months Ended March 31, 2020	Three Months Ended March 31, 2019
Net cash provided by operating activities	$385,943	$213,059
Net change in operating assets and liabilities, net of acquisitions	(32,659)	57,958
Acquisition costs related to the acquisition of Jagged Peak	14,425	-
Restructuring costs related to the acquisition of Jagged Peak (excluding non-cash)	30,018	-
Total discretionary cash flow	$397,727	$271,017
Development of oil and natural gas properties	($281,871)	($352,650)
Additions to oil and natural gas properties - change in capital accruals	(96,893)	(53,654)
Total accrual-based development capital expenditures	($378,764)	($406,304)
Free cash flow (outspend)	**$18,963**	**($135,287)**

Discretionary Cash Flow per Share:

Unaudited, in thousands	Three Months Ended March 31, 2020	Three Months Ended March 31, 2019
Net cash provided by operating activities	$385,943	$213,059
Net change in operating assets and liabilities, net of acquisitions	(32,659)	57,958
Acquisition costs related to the acquisition of Jagged Peak	14,425	-
Restructuring costs related to the acquisition of Jagged Peak (excluding non-cash)	30,018	-
Total discretionary cash flow	$397,727	$271,017
Discretionary cash flow per diluted share	$0.99	$0.86
Weighted average common shares outstanding, class A	366,064	278,794
Weighted average common shares outstanding, class B	35,199	36,403
Adjusted weighted average commong shares outstanding (1)	401,263	315,197

(1) PE Units (and a corresponding number of shares of Class B common stock) can be exchanged for Class A common stock at an exchange ratio of one share of Class A common stock for each PE Unit (and corresponding share of Class B common stock) exchanged. As such, assumes the exchange of all outstanding PE Units (and corresponding shares of Class B common stock) for shares of Class A common stock.

Net Debt Reconciliation

Unaudited, in thousands	Three Months Ended March 31, 2020
Revolving Credit Agreement due October 2023	$300,000
5.375% senior unsecured notes due 2025	650,000
5.250% senior unsecured notes due 2025	450,000
5.875% senior unsecured notes due 2026	500,000
5.625% senior unsecured notes due 2027	700,000
4.125% senior unsecured notes due 2028	400,000
Total Debt	$3,000,000
Less: cash and cash equivalents	$45,274
Net Debt	**$2,954,726**

Note: Net Debt as of 3/31/2020; amendment to the Revolving Credit Agreement announced 4/28/2020 extended the maturity date to October 2023.