# Evercore ISI

# Energy | MLPs & Pipelines

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#### Recent Notes

OKE 4Q Earnings – Ready For Anything	Feb. 26 <sup>th</sup>
MPLX – Northeast G&P Deep Dive	Feb. 28 <sup>th</sup>

# How Would a Utility Investor Value Midstream Stocks

In this note we attempt to value our coverage universe of 11 stocks from the perspective of a utility investor. This by no means is perfect, for instance we are using consensus EPS numbers for 2020 which would need to be adjusted/normalized for inconsistencies in depreciation, intangibles, income taxes etc. Having said that we think this is a good starting point for a generalist/utility investor to compare and contrast relative valuation of midstream names to utilities. Of our four top picks, **ET, MMP** and **EPD** screen favorably versus peers on a total shareholder return potential basis utilizing a target Price to Earnings (P/E) valuation approach consistent with how we value Evercore ISI covered utilities.

Our coverage universe screens well versus utilities on multiple metrics. As we stated in our launch note on 02/04/19, current average dividend yield for our covered stocks is 6.3%, which is almost double that of Evercore ISI covered electric/gas utilities of 3.2% (see Exhibit 1 within). Projected dividend growth of midstream names is also materially higher than utilities. In Exhibit 2 within we show average expected 2020 leverage of 4.2x for our stocks, which is half a turn lower than the average utility (but this may be warranted given the different risk profiles of the two groups). Finally on a forward price to earnings (P/E) basis our coverage universe trades at an average of 17.2x, which is 1.5x lower than utilities. As we stated earlier we compute the forward P/E for stocks in our coverage universe by dividing current price by consensus 2020 EPS. Note, we have adjusted consensus EPS for companies structured as MLPs for taxes at 21% (average 2018 effective tax rate of the C-Corps in our coverage universe). See Exhibit 3 within for additional detail.

**Our proprietary DDM shows midstream fair value 1.3x below utilities on a Forward P/E basis.** Our utility dividend discount model (DDM) computes fair valuation for an average utility at 17.7x on 2020 P/E. Utilizing the same tool and adjusting the inputs to reflect the characteristics of our midstream coverage universe we arrive at fair valuation for our stocks of 16.4x 2020 P/E (1.3x below utilities). For valuing midstream stocks through our DDM we use a higher cost of capital, higher payout ratio, higher initial growth (but lower terminal growth) versus utilities. See Exhibit 4 within for our assumptions and additional detail.

Valuing midstream stocks like utilities on forward P/E. Not perfect, but it's a start. Evercore ISI covered utilities trade at 18.6x on 2020P/E (see Exhibit 6). This would suggest a *relative* trading valuation for our coverage universe of 17.3x (1.3x lower as we stated earlier; implicitly assuming midstream valuations converge to current utility trading multiples). Utilizing 17.3x as our baseline multiple we assigned premium/discounts to companies in our coverage universe in accordance with a relative ranking system based upon balance sheet, cash flow quality, return on capital, growth and asset/basin exposure (outlined on Exhibit 7). Of our top picks ET, MMP and EPD screen favorably versus peers. See Exhibit 5 within for more detail.

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Divi	dend Yield		DPS	6 Growth	
Ticker	Dividend Yiel	d	Ticker	DPS Growth	·
DCP	9.7%		KMI	21.7%	
ET	8.1%		PAA	12.0%	
MPLX	7.8%		WMB	10.0%	
MMP	6.5%		OKE	10.0%	
EPD	6.3%		TRP	8.7%	
ENB	6.0%		ENB	7.0%	
WMB	5.5%	Dividend yield 311	ET	6.0%	DPS growth rate
OKE	5.2%	bps above average	MPLX	5.9%	222 bps higher than
PAA	5.1%	utility dividend yield of 3.2%,	MMP	5.0%	utility growth rate of 5.8%
TRP	5.0%	/	EPD	2.3%	0.070
KMI	4.1%		DCP	0.0%	
				$\frown$	·
Average	6.3%	)	Average	8.0%	_

# Exhibit 1: Midstream Dividend Yield & Dividend Growth vs. Utilities

Note: ET, MPLX and WMB are '19 - '21 CAGRs, due to equity issuances in order to fund dropdowns and/or merger. The rest are '18 – '21 CAGRs. Source: Evercore ISI Research, Factset, Company Reports

# Exhibit 2: MLP Leverage vs. Utilities

			Leverage		
Ticker	Name	2018E	2019E	2020E	
TRP	TC Energy	6.0x	5.4x	5.1x	
WMB	Williams Companies	5.1x	4.8x	4.7x	
ET	EnergyTransfer	4.7x	4.6x	4.6x	
DCP	DCP Midstream	4.9x	4.9x	4.5x	
KMI	Kinder Morgan	4.9x	4.5x	4.3x	
ENB	Enbridge	5.0x	4.8x	4.2x	
OKE	ONEOK	3.8x	4.6x	3.9x	
MPLX	MPLX	3.6x	3.6x	3.7x	
EPD	Enterprise Products Partners	3.7x	3.8x	3.7x	
PAA	Plains All American Pipeline	3.4x	3.5x	3.7x	
MMP	Magellan Midstream Partners	3.1x	3.6x	3.3x	0.6x lower than the average '20E utility leverage of 4.8x
Average	)	4.4x	4.4x (	4.2x	

Source: Evercore ISI Research, Factset, Company Reports

		Consenus	P/E Multiple	
Ticker	Price	'20 EPS	'20E	
WMB	\$27.4	\$1.11	24.7x	
OKE	\$65.9	\$3.54	18.6x	
KMI	\$19.7	\$1.09	18.0x	
MMP	\$61.5	\$3.52	17.5x	
EPD	\$27.8	\$1.63	17.0x	
DCP	\$32.2	\$1.89	17.0x	
ENB	C\$49.5	C\$3.0	16.7x	
PAA	\$23.6	\$1.52	15.5x	
TRP	C\$59.4	C\$3.9	15.4x	
MPLX	\$33.2	\$2.21	15.0x	
ET	\$15.0	\$1.14	13.1x	8% discount to utility '20E P/E Multiple of 18.6x
Average			17.2x	

# Exhibit 3: Midstream 2020E Consensus EPS and P/E Multiple vs. Utilities

Note: EPS for MLPs have been adjusted downward for taxes at 21% (average effective tax rate of the C-Corps). Source: Evercore ISI Research, Factset, Company Reports

# Exhibit 4: Fair Value Using Our Proprietary Dividend Discount Model (DDM)

# Utility Forward P/E - 17.7x

#### Midstream Forward P/E – 16.4x

Growth Assumptions	Base Case	Growth Assumptions	Base Case
Year 1 to 5 Rate Base Growth	5.25%	Year 1 to 5 Rate Base Growth	7.00%
Yr 6-10 RB Grwth	3.50%	Yr 6-10 RB Grwth	5.00%
Yr 11 fwd and Terminal Growth	2.50%	Yr 11 fwd / Terminal Growth	2%/1%
Terminal Value (beyond 35 years)	Yes	Terminal Value (beyond 35 years)	Yes
35 Year Average Payout Ratio - Implied	71%	35 Year Average Payout Ratio - Implied	100%
ROE and Ke Assumptions	Base Case	ROE and Ke Assumptions	Base Case
Yr 1 ROE	9.75%	Yr 1 ROE	12.00%
Annual ROE Fade (+/-)	-0.10%	Annual ROE Fade (+/-)	-0.10%
Final ROE	9.25%	Final ROE	10.00%
		Veere Until LT Spread	20
Years Until LT Spread	5	Years Until LT Spread	20
Years Until LT Spread Implied Annual Ke Change (+/-)	5 0.24%	Implied Annual Ke Change (+/-)	-0.04%
	-		

Source: Evercore ISI Research, Factset, Company Reports

# Exhibit 5: DDM Implied Target Price & Total Shareholder Return

Ticker	Rating	Current Price	Target EV/ EBITDA Multiple	Premium/ (Discount) Baseline Multiple	P/E '20E Baseline Multiple	P/E '20E Target Multiple	'20E Consensus EPS	Implied Target Price	Implied Price Return	Current Div Yield	Implied Total Return
MPLX	Outperform	\$33.2	11.5x	5%	17.3x	18.1x	\$2.2	\$40.0	20.6%	7.8%	28.4%
ET	Outperform	\$15.0	9.9x	-10%	17.3x	15.6x	\$1.1	\$18.0	20.2%	8.1%	28.3%
MMP	Outperform	\$61.5	13.0x	18%	17.3x	20.4x	\$3.5	\$72.0	17.1%	6.5%	23.6%
TRP	In Line	C\$59.4	11.3x	2%	17.3x	17.7x	C\$3.9	C\$68.0	14.5%	5.0%	19.5%
PAA	In Line	\$23.6	11.5x	5%	17.3x	18.1x	\$1.5	\$27.0	14.3%	5.1%	19.4%
EPD	Outperform	\$27.8	12.3x	11%	17.3x	19.3x	\$1.6	\$31.0	11.6%	6.3%	17.9%
ENB	In Line	C\$49.5	11.5x	5%	17.3x	18.1x	C\$3.0	C\$54.0	9.1%	6.0%	15.0%
OKE	In Line	\$65.9	12.3x	11%	17.3x	19.3x	\$3.5	\$68.0	3.2%	5.2%	8.5%
DCP	In Line	\$32.2	10.0x	-9%	17.3x	15.7x	\$1.9	\$30.0	-6.9%	9.7%	2.8%
KMI	Outperform	\$19.7	10.8x	-2%	17.3x	16.9x	\$1.1	\$18.0	-8.8%	4.1%	-4.8%
WMB	Outperform	\$27.4	11.8x	7%	17.3x	18.5x	\$1.1	\$21.0	-23.4%	5.5%	-17.9%
Average	1								6.5%	6.3%	12.8%

Note: Highlighted names denote our top picks. Source: Evercore ISI Research, Factset, Company Reports

Exhibit 6:	Evercore ISI Covered Utility Comp Sheet & Debt Metrics

		3/3/19	ISI	Shares	Market	2018	2018	ISI E	PS Estima	ate	P.	/E Multiple	)	'17-'20
icker	Company Name	Price	Rating	Out	Cap	Div Yld	Payout	2018	2019	2020	2018	2019	2020	EPS Grow
		A 4 0 7 5 0	<u>.</u>	170		0.404	500/	7 70	0.05	0.05				10.00
IEE	NextEra Energy, Inc.	\$187.56	Outperform	476	89,293	2.4%	58%	7.70	8.25	9.05	24.4x	22.7x	20.7x	10.69
VEC	WEC Energy Group	\$76.03	In Line	317	24,094	2.9%	67%	3.32	3.52	3.72	22.9x	21.6x	20.4x	5.8
NM	PNM Resources, Inc.	\$44.79	In Line	80	3,584	2.4%	54%	1.95	2.15	2.22	23.0x	20.8x	20.2x	4.65
MS	CMS Energy Corp	\$54.10	Outperform	283	15,305	2.6%	61%	2.33	2.49	2.68	23.3x	21.7x	20.2x	7.39
EE	Ameren Corp	\$70.93	In Line	245	17,407	2.6%	54%	3.37	3.25	3.55	21.1x	21.9x	20.0x	7.89
EL	Xcel Energy Inc	\$54.92	In Line	511	28,085	2.7%	61%	2.47	2.62	2.80	22.3x	21.0x	19.6x	6.9%
11	NiSource Inc	\$26.91	In Line	357	9,603	2.9%	60%	1.30	1.30	1.39	20.7x	20.7x	19.3x	4.3%
S	Eversource Energy	\$69.74	In Line	318	22,174	2.9%	62%	3.25	3.45	3.65	21.5x	20.2x	19.1x	5.5%
VRG	Evergy	\$55.03	Outperform	216	11,860	2.0%	40%	2.78	2.67	2.90	19.8x	20.6x	19.0x	11.19
TE	DTE Energy Co	\$122.90	In Line	181	22,280	2.9%	57%	6.30	6.20	6.55	19.5x	19.8x	18.8x	5.49
GR	Avangrid Inc.	\$48.71	In Line	310	15,087	3.6%	79%	2.21	2.25	2.60	22.0x	21.6x	18.7x	5.79
EP	American Electric Power Co Inc	\$81.40	In Line	494	40,189	3.1%	64%	3.95	4.10	4.35	20.6x	19.9x	18.7x	5.89
GE	OGE Energy Corp	\$42.43	In Line	200	8,505	3.2%	64%	2.12	2.13	2.27	20.0x	19.9x	18.7x	5.7%
D	Consolidated Edison Inc	\$82.66	Underperform	316	26,111	3.5%	67%	4.28	4.00	4.45	19.3x	20.7x	18.6x	2.6%
NW	Pinnacle West Capital Corp	\$92.78	In Line	113	10,442	3.0%	61%	4.54	4.85	5.00	20.4x	19.1x	18.6x	4.8%
IE	Hawaiian Electric Industries, Inc.	\$38.43	Underperform	109	4,192	3.2%	67%	1.85	1.92	2.07	20.8x	20.0x	18.5x	<b>11.7</b> %
UK	Duke Energy Corp	\$89.53	In Line	710	63,558	4.1%	77%	4.75	5.00	5.25	18.8x	17.9x	17.1x	4.7%
)	Dominion Resources Inc	\$74.79	In Line	655	48,976	4.5%	82%	4.05	4.20	4.40	18.5x	17.8x	17.0x	6.9%
NP	CenterPoint Energy Inc	\$30.17	In Line	434	13,094	3.7%	70%	1.58	1.68	1.78	19.1x	18.0x	17.0x	9.2%
RE	Sempra Energy	\$121.26	Outperform	270	32,719	3.0%	66%	5.40	6.05	7.25	22.5x	20.0x	16.7x	10.2%
E	FirstEnergy Corp	\$40.90	Outperform	537	21,971	3.5%	56%	2.59	2.60	2.50	15.8x	15.7x	16.4x	-6.6%
0	Southern Company Inc	\$49.98	Underperform	1,024	51,159	4.8%	78%	3.07	3.00	3.10	16.3x	16.6x	16.1x	1.29
PL	PPL Corp	\$32.26	In Line	704	22,722	5.1%	68%	2.40	2.47	2.54	13.5x	13.0x	12.7x	4.29
IX	Edison International	\$61.31	In Line	327	20,048	3.9%	59%	4.10	4.50	4.90	15.0x	13.6x	12.5x	3.19
CG	PG&E Corp	\$17.91	In Line	517	9,259	0.0%	0%	3.85	4.05	4.35	4.7x	4.4x	4.1x	5.7%
	ed Group Average (Excludes PCG for					3.3%	64%				19.4x	18.8x	17.5x	5.8
egulate	ed Group Average (Excluding Stocks	PPL, EIX, a	and PCG)			3.2%	64%				20.6x	19.9x	(18.6x	
egulate	d Group Max (Excludes PCG for Div Val	ues)				5.1%	82%				24.4x	22.7x	20.7x	11.79
equiate	d Group Min (Excludes PCG for Div Valu	les)				2.0%	40%				4.7x	4.4x	4.1x	-6.69

		De	bt/EBITDA	
Ticker	Company Name	2018	2019	2020
		5.04	E Ov	F 0.4
WEC D	WEC Energy Group	5.0x	5.6x	5.9x
D DTE	Dominion Resources Inc	6.3x 5.0x	5.6x 5.6x	5.5x 5.8x
FE	DTE Energy Co	5.0x 5.3x		5.8x 5.0x
	FirstEnergy Corp		4.9x	
OGE ES	OGE Energy Corp	3.9x	4.0x	4.0x
-	Eversource Energy	5.2x	5.5x	5.5x
DUK SRE	Duke Energy Corp	6.1x	6.4x	6.3x
SRE XEL	Sempra Energy	6.5x	5.5x	4.9x
	Xcel Energy Inc	4.8x 4.6x	5.3x	5.4x
-	CMS Energy Corp	4.6x 4.1x	5.0x	4.9x
NEE NI	NextEra Energy, Inc. NiSource Inc	4.1x 12.6x	3.4x 5.8x	3.6x 5.7x
AGR	Avangrid Inc.	12.0x 3.4x	5.8x 4.7x	4.5x
AGR	Avaligito inc. American Electric Power Co Inc	3.4x 4.9x	4.7x 5.0x	4.5x 5.1x
PNM	PNM Resources, Inc.	4.9x 5.8x	5.0x 5.6x	5.1x 5.5x
		5.8x 4.0x	5.6X 4.3x	5.5x 4.3x
AEE SO	Ameren Corp	4.0x 5.9x	4.3X 5.4X	4.3x 5.3x
EVRG	Southern Company Inc	5.9x 4.2x	5.4x 4.7x	5.3x 4.9x
PNW	Evergy Binnada West Canital Carn	4.2x 3.8x	4.7x 4.0x	4.9x 4.0x
PPL	Pinnacle West Capital Corp PPL Corp	5.6x 5.4x	4.0x 5.5x	4.0x 5.6x
ED	Consolidated Edison Inc	5.4x 4.7x	5.5x 4.3x	4.2x
HE		4.7x 3.9x	4.3x 3.5x	4.2x 3.5x
⊓⊑ CNP	Hawaiian Electric Industries, Inc. CenterPoint Energy Inc	3.9x 4.1x	3.5x 4.2x	3.5x 4.3x
	Edison International	4.1x 3.7x	4.2x 3.4x	4.5x 3.5x
	PG&E Corp	3.7x 3.7x	3.4x 3.3x	3.5x 3.3x
-00	r Gae Oup	3.7X	3.3X	5.5X
Regulat	ed Group Average (Excludes PCG for Div Values)	5.1x	4.8x	4.8x
Regulate	d Group Max (Excludes PCG for Div Values)	12.6x	6.4x	6.3x
Regulate	d Group Min (Excludes PCG for Div Values)	3.4x	3.3x	3.3x

Source: Evercore ISI Research, Factset, Company Reports

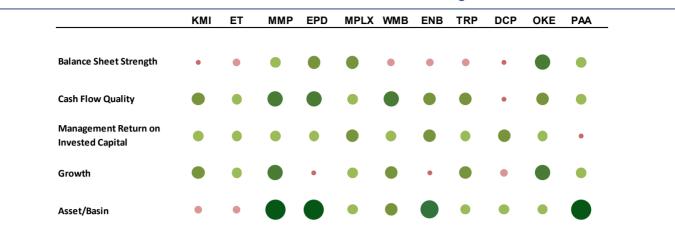


Exhibit 7: Valuation Matrix Positioning

Source: Evercore ISI Research

**Valuation Framework** - We utilized a relative-ranking framework (as shown above) to arrive at a target EV/EBITDA multiple to drive our target prices. Companies have been assigned a premium/discount to our baseline EV/EBITDA multiple in accordance with a relative ranking system that consisted of:

- **Balance Sheet Strength.** Each company was ranked proportionate to its assessed balance sheet strength, including gross leverage, distribution coverage and relative scale (EBITDA).
- Cash Flow Quality. We examined each company's relative amount of commodity-exposure, volumetric- risk and counterparty risk.
- Management Return on Invested Capital. Our ranking of the consequence of management's total spend on the business both organic and inorganic.
- **Growth.** The three year expected forward CAGR of each company in terms of EBITDA and distribution growth per share.
- Asset/Basin. Our qualitative assessment of the name's asset and basin exposure.

Exhibit 8:	Model and PT Revisions
EXHIDIL O.	

Ticker	Rationale
MPLX	We are lowering our 2020E EBITDA by >\$100MM to \$4.1B primarily due to lower expected volumes from the northeast. <b>Our target price is now \$39, rating remains Outperform.</b>

Source: Evercore ISI Research, Company Reports

			Mkt Cap	Тах		EBITDA (mm)						Target	Target	Price	Div	Total
Ticker	Name	Rating	(mm)	Status	2017A	2018E	2019E	2020E	2021E	CAGR	Current Px	Multiple	Price	Return	Yield	Return
ET	Energy Transfer	Outperform	\$39,238	K-1	\$7,320	\$9,419	\$10,383	\$10,798	\$11,202	11.2%	\$14.98	9.90x	\$18.00	20.2%	8.1%	28.3%
MMP	Magellan Midstream Partners	Outperform	\$14,047	K-1	\$1,303	\$1,391	\$1,468	\$1,658	\$1,686	6.7%	\$61.50	13.00x	\$74.00	20.3%	6.5%	26.8%
MPLX	MPLX	Outperform	\$26,344	K-1	\$2,004	\$3,562	\$3,959	\$4,088	\$4,485	22.3%	\$33.18	11.50x	\$39.00	17.5%	7.8%	25.3%
KMI	Kinder Morgan	Outperform	\$44,685	1099	\$7,198	\$7,568	\$7,655	\$8,027	\$8,107	3.0%	\$19.74	10.75x	\$23.00	16.5%	4.1%	20.6%
EPD	Enterprise Products Partners	Outperform	\$60,634	K-1	\$5,615	\$7,223	\$7,261	\$7,916	\$8,374	10.5%	\$27.78	12.25x	\$32.00	15.2%	6.3%	21.5%
WMB	Williams Companies	Outperform	\$33,217	1099	\$4,531	\$4,500	\$5,039	\$5,456	\$5,816	6.4%	\$27.43	11.75x	\$31.00	13.0%	5.5%	18.6%
DCP	DCP midstream	In-line	\$4,619	K-1	\$1,017	\$1,087	\$1,172	\$1,346	\$1,438	9.0%	\$32.23	10.00x	\$34.00	5.5%	9.7%	15.2%
PAGP*	Plains GP Holdings	In-line	\$3,698	1099	NM	NM	NM	NM	NM	NM	\$23.19	NM	\$25.00	7.8%	5.2%	13.0%
PAA	Plains All American Pipeline	In-line	\$17,162	K-1	\$2,082	\$2,684	\$2,742	\$2,799	\$2,933	8.9%	\$23.62	11.50x	\$25.00	5.8%	5.1%	10.9%
TRP	TC Energy	In-line	C\$54,776	1099	C\$7,377	C\$7,875	C\$9,044	C\$9,808	C\$9,965	7.8%	C\$59.41	11.25x	C\$60.00	1.0%	5.0%	6.0%
OKE	ONEOK	In-line	\$27,113	1099	\$1,987	\$2,448	\$2,596	\$3,238	\$3,603	16.0%	\$65.87	12.25x	\$65.00	-1.3%	5.2%	3.9%
ENB	Enbridge	In-line	C\$100,098	1099	C\$10,317	C\$12,849	C\$13,237	C\$13,998	C\$15,239	10.2%	C\$49.51	11.50x	C\$48.00	-3.0%	6.0%	2.9%
Averag	9									10.6%		11.35x				16.3%

#### Exhibit 9: Target Price & Ratings

Note; PAGP DPS is the economic equivalent of PAA but is taxed as a corporation. Source: Evercore ISI Research, Company Reports, Factset

**DPS Growth** 

**Cash Flow Breakdown** 

	Lev	erage				Coverage							
						Ticker	Name	2018E	2019E	2020E	2021E		
Ticker	Name	2018E	2019E	2020E	2021E	TRP	TC Energy	1.8x	2.0x	2.1x	2.0x		
MMP	Magellan Midstream Partners	3.1x	3.6x	3.3x	3.3x	KMI	Kinder Morgan	2.7x	2.2x	1.9x	1.8x		
OKE	ONEOK	3.8x	4.6x	3.9x	3.5x	ET	Energy Transfer	1.5x	1.8x	1.7x	1.7x		
MPLX	MPLX	3.6x	3.6x	3.7x	3.6x	WMB	Williams Companies	2.0x	1.7x	1.7x	1.7x		
EPD	Enterprise Products Partners	3.7x	3.8x	3.7x	3.7x	EPD	Enterprise Products Partners	1.6x	1.5x	1.6x	1.6x		
PAA	Plains All American Pipeline	3.4x	3.5x	3.7x	3.7x	ENB	Enbridge	1.6x	1.5x	1.5x	1.6x		
ENB	Enbridge	5.0x	4.6x	4.5x	4.1x	PAA	Plains All American Pipeline	2.0x	1.8x	1.7x	1.6x		
DCP	DCP Midstream	4.9x	4.9x	4.5x	4.3x								
KMI	Kinder Morgan	4.9x	4.5x	4.3x	4.3x	OKE	ONEOK	1.4x	1.3x	1.5x	1.5x		
ET	Energy Transfer	4.7x	4.6x	4.6x	4.6x	DCP	DCP Midstream	1.1x	1.2x	1.4x	1.5x		
WMB	Williams Companies	5.1x	4.8x	4.7x	4.6x	MPLX	MPLX	1.5x	1.5x	1.4x	1.5x		
TRP	TC Energy	6.0x	5.4x	5.1x	5.0x	MMP	Magellan Midstream Partners	1.3x	1.3x	1.4x	1.3x		
Average	e	4.4x	4.4x	4.2x	4.0x	Average	•	1.6x	1.6x	1.6x	1.6x		

# Exhibit 10: Ranked Financial Position

#### **Price to DCF/Share**

Ticker	Name	2018E	2019E	2020E	2021E	Ticker	Name	2018E	2019E	2020E	2021E	CAGR*
MMP	Magellan Midstream Partners	12.6x	11.8x	10.4x	10.2x	KMI	Kinder Morgan	\$0.78	\$1.00	\$1.25	\$1.41	21.7%
OKE	ONEOK	14.7x	14.2x	11.1x	9.7x	PAA	Plains All American Pipeline	\$1.20	\$1.34	\$1.51	\$1.69	12.0%
ENB	Enbridge	11.1x	10.8x	10.2x	9.2x	WMB	Williams Companies	\$1.42	\$1.52	\$1.68	\$1.84	10.0%
EPD	Enterprise Products Partners	10.1x	10.7x	9.7x	9.1x	OKE	ONEOK	\$3.25	\$3.58	\$3.93	\$4.33	10.0%
PAA	Plains All American Pipeline	9.5x	9.5x	9.3x	8.8x	TRP	TC Energy	C\$2.70	C\$2.93	C\$3.18	C\$3.47	8.7%
TRP	TC Energy	12.3x	10.1x	9.0x	8.8x	ENB	Enbridge	C\$2.68	C\$2.95	C\$3.17	C\$3.29	7.0%
WMB	Williams Companies	9.5x	10.2x	9.2x	8.5x	ET	Energy Transfer	\$1.10	\$1.30	\$1.38	\$1.46	6.0%
KMI	Kinder Morgan	9.0x	8.7x	8.0x	7.8x	MPLX	MPLX	\$2.49	\$2.65	\$2.81	\$2.97	5.9%
MPLX	MPLX	9.0x	8.5x	8.3x	7.5x	MMP	Magellan Midstream Partners	\$3.87	\$4.06	\$4.27	\$4.48	5.0%
ET	Energy Transfer	4.2x	6.5x	6.2x	5.9x	EPD	Enterprise Products Partners	\$1.73	\$1.77	\$1.81	\$1.85	2.3%
DCP	DCP Midstream	7.2x	6.5x	5.3x	4.9x	DCP	DCP Midstream	\$3.12	\$3.12	\$3.12	\$3.12	0.0%
Average	9	10.0x	9.8x	8.7x	8.2x	Average	9					7.4%

#### **Trading EV/EBITDA Multiples**

#### Ticker Company Name 2018E 2019E 2020E 2021E Ticker Name Fee Based Non Fee Based ENB Enbridge 13.6x 13.2x 12.4x 11.4x ENB Enbridge 98% 2% 97% WMB Williams Companies 3% MMP Magellan Midstream Partners 13.0x 12.3x 10.9x 10.7x EPD TRP TC Energy 96% 4% Enterprise Products Partners 12.0x 12.0x 11.0x 10.4x ONEOK KMI Kinder Morgan 90% 10% OKE 14.7x 13.9x 11.1x 10.0x PAA Plains All American Pipeline 10.8x 10.6x 10.4x 9.9x MPLX MPLX 90% 10% Energy Transfer 88% ET 12% KMI Kinder Morgan 10.6x 10.4x 10.0x 9.9x TC Energy PAA Plains All American Pipeline 85% 15% TRP 12.2x 10.7x 9.8x 9.7x WMB Williams Companies 12.4x 11.1x 10.3x 9.6x MMP Magellan Midstream Partners 85% 15% MPLX MPLX 11.3x 10.2x 9.9x 9.0x OKE ONEOK 84% 16% Enterprise Products Partners EPD 78% 22% DCP DCP Midstream 11.1x 10.3x 8.9x 8.4x DCP DCP Midstream 60% 40% 9 9 x ΕT Energy Transfer 9 0 x 87x 84x 12.0x 11.2x 10.2x 85% 15% Average 9.6x Average

Note: ET, MPLX, and WMB are '19-'21 CAGRs, due to equity issuance in order to fund dropdowns and/or merger. Source: Evercore ISI Research, Company Reports



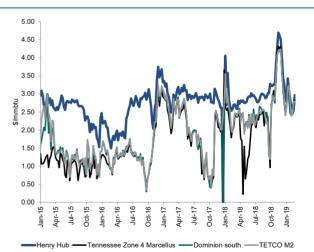
# Exhibit 11: Major Domestic Natural Gas Hubs and Prices

Source: Bloomberg, Evercore ISI Research

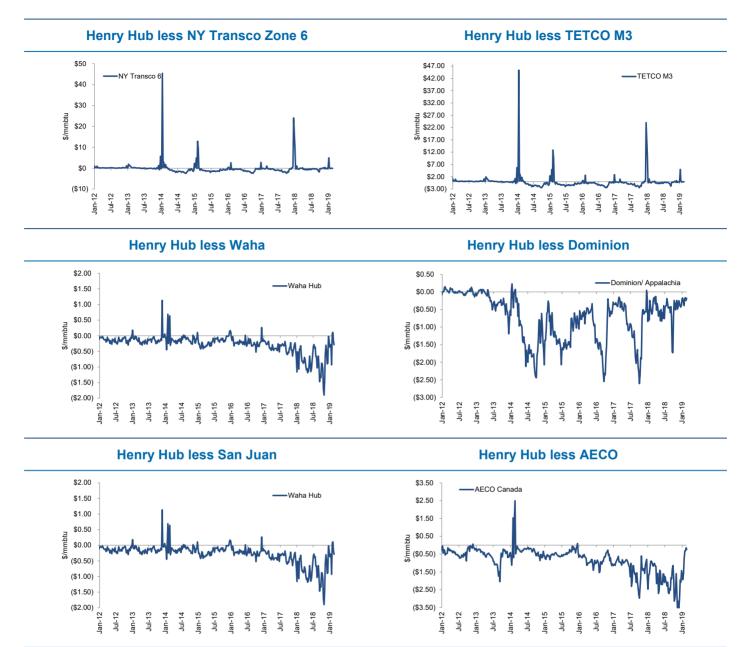
#### **Natural Gas Prices**

(US\$/mmbtu)	This Week 1-Mar-19	2019 YTD Avg Price	4Q18 Avg Price	2018 Average Price
Futures				
NYMEX NG Front Month	\$2.85	\$2.92	\$3.72	\$3.07
NYMEX NG 12 Month Strip	\$2.99	\$2.89	\$3.05	\$2.90
North Am Markets				
Henry Hub	\$2.97	\$2.89	\$3.76	\$3.1
NY Transco 6	\$2.96	\$4.60	\$3.68	\$3.45
New York City Gate	\$2.91	\$3.46	\$3.53	\$3.30
North East Average	\$3.62	\$4.52	\$4.28	\$3.8
Dominion/ Appalachia	\$2.79	\$2.92	\$3.72	\$3.0
Chicago City Gate	\$2.92	\$2.77	\$3.63	\$2.9
Dawn Ontario, Canada	\$2.78	\$2.67	\$3.56	\$2.9
Midcon Average	\$2.94	\$2.72	\$3.51	\$2.8
PGE Citygate	\$4.26	\$5.41	\$4.54	\$3.3
Cal Border Average	\$4.22	\$6.00	\$4.30	\$3.04
SOCAL Border	N/A	N/A	\$3.20	\$2.4
Permian Basin	\$1.00	\$1.51	\$1.73	\$1.7
AECO Canada	\$2.73	\$1.95	\$1.20	\$1.1
San Juan Basin	\$2.68	\$2.62	\$2.81	\$2.2
Rockies Opal	\$4.00	\$5.29	\$4.04	\$2.6
Appalachian Markets				
TETCO M2	\$2.78	\$2.74	\$3.26	\$2.5
TETCO M3	\$2.91	\$3.46	\$3.53	\$3.3
TCO Pool	\$2.79	\$2.70	\$3.47	\$2.8
TN Zone 4 - Marcellus	\$2.83	\$2.69	\$3.27	\$2.3
Dominion South	\$2.79	\$2.64	\$3.27	\$2.6





Source: Bloomberg, Evercore ISI Research



Source: Bloomberg, Evercore ISI Research

Terminal	Train Number	Operator	Baseload nameplate capacity per Train (Bcf/d)	Peak nameplate capacity per Train (Bcf/d)	Timing of Expansion/ Build Out	Location
Sabine Pass	Train 1	Cheniere Energy	0.593	0.690	Feb-16	LA
Sabine Pass	Train 2	Cheniere Energy	0.593	0.690	Aug-16	LA
Sabine Pass	Train 3	Cheniere Energy	0.593	0.690	Jan-17	LA
Sabine Pass	Train 4	Cheniere Energy	0.593	0.690	Aug-17	LA
Cove Point	Train 1	Dominion Energy	0.692	0.757	Feb-18	MD
Sabine Pass	Train 5	Cheniere Energy	0.593	0.690	Dec-18	LA
Corpus Christi	Train 1	Cheniere Energy	0.596	0.659	Dec-18	TX
Completed			4.251	4.866		
Elba Island	Trains 1-6	Kinder Morgan	0.198	0.216	Q1'19	GA
Cameron	Train 1	Sempra LNG	0.593	0.657	Q1'19	LA
Corpus Christi	Train 2	Cheniere Energy	0.596	0.659	Q2'19	TX
Freeport	Train 1	Freeport LNG	0.659	0.713	Q2'19	TX
Cameron	Train 2	Sempra LNG	0.593	0.657	Q2'19	LA
Elba Island	Trains 7-10	Kinder Morgan	0.132	0.144	Q3'19	GA
Freeport	Train 2	Freeport LNG	0.659	0.713	Q4'19	TX
Cameron	Train 3	Sempra LNG	0.593	0.657	Q4'19	LA
Freeport	Train 3	Freeport LNG	0.659	0.713	Q2'20	TX
Corpus Christi	Train 3	Cheniere Energy	0.596	0.659	Q2'21	TX
Golden Pass LNG		Qatar Petroleum, ExxonMobil	2.000	2.000	2022	ТΧ
Driftwood LNG Term	inal	Tellurian, C. Souki, Total	4.000	4.000	2023	LA
Under Construction	/Commissioning		11.275	11.789		
Sabine Pass	Train 6	Cheniere Energy	0.690	0.690	Proposed	LA
Port Aurthor		Sempra LNG	1.776	1.776	Proposed	TX
Cameron	Trains 4-5	Sempra LNG	1.461	1.461	Proposed	LA
Magnolia LNG		LNG Ltd	1.054	1.054	Proposed	LA
Lake Charles LNG		Lake Charles LNG Export Co	2.200	2.200	Proposed	LA
Delfin FLNG		Fairwood Group	1.580	1.580	Proposed	GOM
Proposed			8.761	8.761		
Total			24.287	25.416		

# Exhibit 12: Current Expansion, New Build, and Proposed US LNG Export Facilities

Source: EIA, Evercore ISI Research

	4047	0047	2047	4047	0047	4040	0040	2040	4040	0040	4040	0040	2040	4040	0040
	1Q17	2Q17	3Q17	4Q17	2017	1Q18	2Q18	3Q18	4Q18	2018	1Q19	2Q19	3Q19	4Q19	2019
Supply (billion cubic feet per day)															
Total Dry Gas Production	65.6	66.1	67.4	67.6	66.7	79.1	81.2	85.0	87.9	83.3	89.4	90.2	90.4	90.8	90.2
LNG Gross Imports	0.4	0.2	0.4	0.1	0.3	0.3	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2
LNG Gross Exports	0.0	0.0	0.0	0.0	0.0	2.6	2.8	2.9	3.5	3.0	4.1	4.3	5.5	6.5	5.1
Pipeline Gross Imports	8.1	7.4	7.4	7.6	7.6	8.7	7.6	7.5	7.1	7.8	8.3	6.6	6.1	7.0	7.0
Pipeline Gross Exports	4.8	4.4	4.1	3.8	4.3	7.0	6.2	7.0	8.0	7.1	8.9	7.8	7.5	8.1	8.1
Supplemental Gaseous Fuels	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Net Inventory Withdrawals	18.8	-10.1	-9.8	7.3	1.5	18.3	-8.8	-8.3	2.7	1.0	14.5	-12.5	-9.6	3.1	-1.1
Total Supply	88.2	59.3	61.4	78.9	71.9	97.0	71.3	74.6	86.6	82.4	99.7	72.5	74.4	86.7	83.3
Balancing Item	0.5	0.8	-0.3	-1.7	-0.2	0.5	-0.6	-0.5	-2.3	-0.7	-0.2	-1.0	0.0	-1.1	-0.6
Total Primary Supply	88.7	60.1	61.1	77.3	71.8	97.5	70.7	74.0	84.4	81.6	99.5	71.5	74.3	85.6	82.7
Consumption (billion cubic feet per day)															
Residential	25.5	7.6	3.7	17.3	13.5	25.7	8.0	3.4	16.7	13.5	26.0	7.6	3.5	16.7	13.5
Commercial	14.4	6.1	4.5	11.1	9.0	15.3	6.6	4.6	10.8	9.3	15.3	6.8	4.6	10.5	9.3
Industrial	21.7	19.3	18.9	21.4	20.3	24.3	21.8	21.2	23.7	22.7	24.8	22.1	21.5	24.4	23.2
Electric Power	20.1	21.1	27.8	20.7	22.4	24.9	27.6	37.8	25.7	29.0	25.4	27.6	37.1	26.0	29.0
Lease and Plant Fuel	4.0	4.0	4.1	4.1	4.0	4.6	4.7	4.9	5.1	4.8	5.2	5.2	5.2	5.2	5.2
Pipeline and Distribution Use	3.0	2.0	2.0	2.6	2.4	2.6	1.9	2.0	2.3	2.2	2.7	2.0	2.2	2.6	2.4
Vehicle Use	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	88.7	60.1	61.1	77.3	71.8	97.5	70.7	74.0	84.4	81.6	99.5	71.5	74.3	85.6	82.7

Exhibit 13: EIA Short Term Energy Outlook for Domestic Natural Gas

Source: EIA, Evercore ISI Research

Terminal	Operator	MBPD	Timing	Location
Mont Belvieu Frac IX	EPD	85	Completed 2018	Mont Belvieu
Fractionator VI	ET (Lone Star NGL)	150	Q1'19	Mont Belvieu
Mont Belvieu Frac Train 6	TRGP	100	Early Q2'19	Mont Belvieu
Robstown Fractionator	EPIC Midstream	100	Q1'20	Corpus Christ
Fractionator VII	ET (Lone Star NGL)	150	Q1'20	Mont Belvieu
Mont Belvieu Frac Train 7	TRGP	110	Q1'20	Mont Belvieu
MB-4 fractionator	OKE	125	Q1'20	Mont Belvieu
Mont Belvieu Frac Train 8	TRGP	110	Q2'20	Mont Belvieu
Fractionator	Permico Energia LLC	300	Q4'20	Corpus Christ
Sweeny Hub Expansion	PSX	300	Q4'20	Sweeny, TX
Mont Belvieu Frac	EPD	300	2020	Mont Belvieu
MB-5 fractionator	OKE	125	Q1'21	Mont Belvieu
Total		1,955		

# Exhibit 14: Incremental Fractionation Capacity Set to Come Online In the US

Source: Evercore ISI Research

# Exhibit 15: Ethylene Cracking Projects Set to Come Online By Early 2020s

Start-up Date (ISD)	Status	Project Type	Company	Plant Name	City	State	Capacity (MMIbs/y)	Ethane Demand (Mb/d)
1/1/2020	Under Construction	Greenfield	Westlake & Lotte Chemical	LACC	Lake Charles	LA	2200	57
5/1/2019	Under Construction	Greenfield	Formosa Plastics	Point Comfort #3	Point Comfort	тх	3500	90
12/1/2018	Under Construction	Greenfield	Shintech	Plaquemine Ethylene Plant-1	Plaquemine	LA	1100	29
12/1/2019	Under Construction	Brownfield	DowDuPont	Freeport LHC9 Expansion	Freeport	тх	1100	28
7/1/2020	Under Construction	Greenfield	Shell Chemical Company	Monaca, PA	Monaca	PA	3300	86
12/31/2020	Under Construction	Greenfield	Bayport Polymers	Port Arthur	Port Arthur	тх	2205	57
9/1/2018	Under Construction	Greenfield	Sasol	Lake Charles	Westlake	LA	3300	86
Incremental Eth	nane Demand (mb	pd)						43

Source: Bloomberg, Evercore ISI Research

Terminal	Owner	LPG Loading Capacity mb/d	Timing of Expansion/ Build Out	Location
Freeport	PSX	200.0	Completed	Gulf Coast
Enterprise Hydrocarbon Terminal	EPD	545.0	Completed	Gulf Coast
Galena Park	TRGP	233.3	Completed	Gulf Coast
Marcus Hook	ET	*60.0	Completed	East Coast
Nederland	ET	200.0	Completed	Gulf Coast
Ferndale	Petrogas	30.0	Completed	Pacific Northwest
Buckeye Texas Hub	BPL	*21.0	Completed	Gulf Coast
Riverside	ENLK	*9.0	Completed	Gulf Coast
Chesapeake (import facility)	DCP	NA	Completed	East Coast
Ider Construction/Planned				
Ridley Island Propane Export Terminal	AltaGas/Royal Vopak	40.0	Q2'19	BC
Enterprise Hydrocarbon Terminal	EPD	175.0	H2'19	Gulf Coast
Galena Park	TRGP	116.7	2019/2020	Gulf Coast
Prince Rupert	Pembina	25.0	2020	BC
Vopak Pacific Canada	Royal Vopak	40.0	2022	BC
Kitimat Marine Terminal	Pacific Traverse Energy	40.0	2022/2023	BC

# Exhibit 16: LPG Exports By Terminal & Company

Note: \* denotes average LPG export in 2018. Source: Company Reports, RBN Energy

# Exhibit 17: Current Expansion, New Build, and Proposed Incremental NGL Pipeline Capacity in the United States

12312018       Expansion       Stand Hills       DCP       Y-Grade       Permian       PADD 3 (Permian)       ML Belvieu, TX       1         1211/2019       Expansion       Southerm Hills       DCP       Y-Grade       DJ Basin       PADD 2 (D) Basin       Mt Belvieu, TX       1         1211/2019       New Build       Mariner East ET/Sunoco       Propane       Butane       Scio, OH       PADD 1       Marcus Hook, PA       12         1011/2020       New Build       Shin Oak       EPD       Y-Grade       Bernan       PADD 3 (Permian)       Mt Belvieu, TX       42         1011/2020       New Build       Grand Prix       TRGP       Y-Grade       Bernan       PADD 3       Marcus Hook, PA       12         1011/2020       New Build       Grand Prix       TRGP       Y-Grade       Bernan       PADD 3       Marcus Hook, PA       12         101/2021       New Build       Grand Prix       TRGP       Y-Grade       Permian       PADD 3       Marcus Hook, PA       11         101/2021       Proposed       Arbuckle II       OKE       Y-Grade       Velma, OK       PADD 3       Mt Belvieu, TX       14         101/2021       Proposed       Arbuckle II       OKE       Y-Grade       Velma,	Start-up Date	Status	Name	Owner	Primary	Secondary	Origin	Origin PADD	Destination	Capacity
12/12/301         Expansion         Suthern Hills         DCP         Y-Grade         DL Basin         PAD 2 (DL Basin)         ML Belvieu, TX         12/12/12/12/12/12/12/12/12/12/12/12/12/1	3/1/2020	Expansion	West Texas	OKE	Y-Grade		Lea County, NM	PADD 3 (Permian)	Arbuckle Pipe	80
12312181       Expansion       Sterling III       OKE       Y-Grade       Putity       Meddord, OK       PADD 2 (Conway)       Mit Belvieu, TX       Mit 101/2020         101/12020       New Build       Mariner East 2 ET/Sunoco       Propane       Butane       Scio, OH       PADD 1       Marcus Hook, PA       11         101/12020       New Build       Shin Oak       EPD       Y-Grade       Permian       PADD 3 (Permian)       Mit Belvieu, TX       44         101/12020       New Build       Grand Prix       TROP       Y-Grade       Hughes County, PADD 2       North TX       44         101/12020       New Build       Grand Prix       TROP       Y-Grade       Volrad, OK       PADD 3 (Permian)       Mit Belvieu, TX       44         101/12020       Proposed       Arbuckk II       OKE       Y-Grade       Volrad, OK       PADD 2       North TX       44         101/12021       Proposed       Arbuckk II       OKE       Y-Grade       Volrad, OK       PADD 1       Marcus Hook, PA       11         101/12021       Proposed       Arbuckk II       OKE       Y-Grade       Volrad, OK       PADD 2       Morcus Hook, PA       11         101/12021       Proposed       Fronk Rang       APC / DCP / EPD	12/31/2018	Expansion	Sand Hills	DCP	Y-Grade		Permian	PADD 3 (Permian)	Mt. Belvieu, TX	60
10/1/2020       New Build       Mariner East       ET/Sunoco       Propane       Butane       Scio, OH       PADD 1       Marcus Hook, PA       11         10/1/2019       New Build       Mariner East 2       ET/Sunoco       Propane       Butane       Scio, OH       PADD 1       Marcus Hook, PA       22         11/1/2020       New Build       EPIC NGL       EPIC / Grade Pipeline LP       Y-Grade       Benedum, TX       PADD 3       Corpus Christ, TX       44         (1/2019       New Build       Grand Prix       TROP       Y-Grade       Permian       PADD 3       Mit Belvieu, TX       44         (4/2019       New Build       Grand Prix       TROP       Y-Grade       Permian       PADD 2       North TX       14         (4/2019       New Build       Grand Prix       TROP       Y-Grade       Velma, OK       PADD 1       Marcus Hook, PA       14         (4/2019       New Build       Grand Prix       TROP       Y-Grade       Velma, OK       PADD 2       Monacu, TX       44         (1/2020       Proposed       Mariner East 2. Sunoco       LPG       Scio, OH       PADD 1       Marcus Hook, PA       14         (1/2020       Proposed       Falocin       RDS       Elhane	12/1/2019	Expansion	Southern Hills	DCP	Y-Grade		DJ Basin	PADD 2 (DJ Basin)	Mt. Belvieu, TX	9
9/1/2019     New Build     Marine Fast 2     ET/Sunoco     Propane     Butane     Scio, OH     PADD 1     Marcus Hock, PA     22       6/1/2019     New Build     Shin Oak     EPO     Y-Grade     Permian     PADD 3     Corpus Christi, TX     65       6/1/2019     New Build     Grand Prix     TROP     Y-Grade     Highes County, PADD 2     North TX     14       6/1/2019     New Build     Grand Prix     TROP     Y-Grade     Verma, OK     PADD 3     (Permian)     Marcus Hock, PA     44       6/1/2019     New Build     Grand Prix     TROP     Y-Grade     Verma, OK     PADD 2     (Conway)     Mt. Belvieu, TX     44       6/1/2019     New Build     Grand Prix     TROP     Y-Grade     Verma, OK     PADD 2     (Conway)     Mt. Belvieu, TX     44       3/1/2020     Proposed     Arbuckle II     OKE     Y-Grade     Verma, OK     PADD 2     (Conway)     Mt. Belvieu, TX     14       3/1/2020     Proposed     Dixie     EPD     Propare     Hatiesburg, MS     PADD 3     Mt. Belvieu, TX     16       3/1/2020     Proposed     Troo Range     APC / DC / DC / PD     V-Grade     Verlma, OK     PADD 3     Mt. Belvieu, TX     16       12/1/2020     <	12/31/2018	Expansion	Sterling III	OKE	Y-Grade	Purity	Medford, OK	PADD 2 (Conway)	Mt. Belvieu, TX	60
Gif 2019       New Build       Shin Oak       EPD       Y-Grade       Permian       PADD 3 (Permian)       Mt. Belvieu, TX       St         1/1/2020       New Build       EPIC NGL       EPIC NGL       EPIC V Grade Pipeline LP       Y-Grade       Beneduum, TX       PADD 3       Corpus Christi, TX       44         6/1/2019       New Build       Grand Prix       TRGP       Y-Grade       North TX       PADD 3       Mt. Belvieu, TX       44         6/1/2019       New Build       Grand Prix       TRGP       Y-Grade       Permian       PADD 3       Mt. Belvieu, TX       44         6/1/2019       New Build       Grand Prix       TRGP       Y-Grade       Velma, OK       PADD 2       Conway       Mt. Belvieu, TX       44         3/1/2020       Proposed       Arbuckle II       OKE       Y-Grade       Velma, OK       PADD 2       Conway       Mt. Belvieu, TX       44         3/1/2020       Proposed       Dixia       EPD       Propare       Hatterieu, TX       54         3/1/2020       Proposed       Texas Express       APC / DCP / ENB / PD       Y-Grade       Weld County, CD PADD 3       Mt. Belvieu, TX       10         5/1/2019       Proposed       Front Rang       APC / DCP / ENB / PD	10/1/2020	New Build	Mariner East	ET/Sunoco	Propane	Butane	Scio, OH	PADD 1	Marcus Hook, PA	100
11/12020       New Build       EPIC NGL       EPIC Y Grade PY-Grade       Benedum, TX       PADD 3       Corpus Christi, TX       44         6/12019       New Build       Grand Prix       TRGP       Y-Grade       Hughes County, PADD 2       North TX       11         6/12019       New Build       Grand Prix       TRGP       Y-Grade       Proposed       North TX       44         6/12019       New Build       Grand Prix       TRGP       Y-Grade       Velma, OK       PADD 3       (Eelvieu, TX       44         6/12019       New Build       Grand Prix       TRGP       Y-Grade       Velma, OK       PADD 2       (Conway)       ML Belvieu, TX       44         9/12020       Proposed       Arbuckle II       OKE       Y-Grade       Velma, OK       PADD 2       Monaca, PA       11         9/12019       Proposed       Falcon       RDS       Ethane       Houston, PA       PADD 2       Monaca, PA       11         12/12020       Proposed       Forot Range       RP/ IOD / FDP       Y-Grade       Weld County, CD PADD 4       Stellytown, TX       14         12/12020       Proposed       Simpatico       Permico Energia       Y-Grade       Copus Christi, TX       PADD 3       ML Belvieu, TX	9/1/2019	New Build	Mariner East 2	ET/Sunoco	Propane	Butane	Scio, OH	PADD 1	Marcus Hook, PA	27
6/1/2019       New Build       Grand Prix       TRGP       Y-Grade       North TX       PADD 2       North TX       Hughes County,         6/1/2019       New Build       Grand Prix       TRGP       Y-Grade       North TX       PADD 3       (Mt. Belvieu, TX       44         6/1/2019       Proposed       Arbuckle II       OKE       Y-Grade       Velma, OK       PADD 2       (Conway)       Mt. Belvieu, TX       44         11/1/2018       Proposed       Arbuckle II       OKE       Y-Grade       Velma, OK       PADD 2       (Conway)       Mt. Belvieu, TX       44         11/1/2018       Proposed       Arbuckle II       OKE       Y-Grade       Velma, OK       PADD 2       (Conway)       Mt. Belvieu, TX       44         11/1/2020       Proposed       Folcon       RDS       Ethane       Houston, PA       PADD 3       Mt. Belvieu, TX       45         6/1/2019       Proposed       Foront Range       APC / DCP / ENB / EPD       Y-Grade       Skellytown, TX       PADD 3       Mt. Belvieu, TX       45         6/1/2019       Proposed       Companero       Permico Energia       EI/P Mix       Y-Grade       Opus Christi, TX       PADD 3       Mt. Belvieu, TX       43         12/1/2020	6/1/2019	New Build	Shin Oak	EPD	Y-Grade		Permian	PADD 3 (Permian)	Mt. Belvieu, TX	550
6/1/2019       New Build       Grand Prix       TRGP       Y-Grade       North TX       PADD 3       Mt. Belvieu, TX       44         6/1/2019       New Build       Grand Prix       TRGP       Y-Grade       Permian       PADD 3 (Permian)       33         3/1/2020       Proposed       Mariner East 2-Sunoco       LPG       Scio, OH       PADD 2 (Convay)       Mt. Belvieu, TX       44         3/1/2021       Proposed       Arbuckle II       OKE       Y-Grade       Velma, OK       PADD 3       Mt. Belvieu, TX       44         3/1/2020       Proposed       Arbuckle II       OKE       Y-Grade       Velma, OK       PADD 3       Mt. Belvieu, TX       43         3/1/2020       Proposed       Falcon       RDS       Ethane       Houston, PA       PADD 3       Mt. Belvieu, TX       43         3/1/2020       Proposed       Fornt Range       APC / DC / EMS / EPD       Y-Grade       Stellytown, TX       PAD 3       Mt. Belvieu, TX       44         12/1/2020       Proposed       Fornt Range       APC / DC / EMS / Propa       Permica       Permica       PAD 3       Mt. Belvieu, TX       44         12/1/2020       Proposed       Simpatico Dont Energia       Y-Grade       Corpus Christi, TX       PAD 3 <td>1/1/2020</td> <td>New Build</td> <td>EPIC NGL</td> <td>EPIC Y Grade Pipeline LP</td> <td>Y-Grade</td> <td></td> <td>Benedum, TX</td> <td>PADD 3</td> <td>Corpus Christi, TX</td> <td>440</td>	1/1/2020	New Build	EPIC NGL	EPIC Y Grade Pipeline LP	Y-Grade		Benedum, TX	PADD 3	Corpus Christi, TX	440
Sif // 2019       New Build       Grand Prix       TRGP       Y-Grade       Permian       PADD 3 (Permian)       30         3/1/2020       Proposed       Árbuckle II       OKE       Y-Grade       Velma, OK       PADD 2 (Conway)       Mt. Belvieu, TX       44         3/1/2021       Proposed       Mariner East 2-Sunoco       LPG       Scio, OH       PADD 1       Marcus Hook, PA       11         3/1/2021       Proposed       Arbuckle II       OKE       Y-Grade       Velma, OK       PADD 2 (Conway)       Mt. Belvieu, TX       14         3/1/2020       Proposed       Falcon       RDS       Ethane       Houtischurg, MS       PADD 3       Mt. Belvieu, TX       14         3/1/2020       Proposed       Front Range       APC / DCP / EPD       Y-Grade       Skellytown, TX       PADD 3       Mt. Belvieu, TX       14         12/1/2020       Proposed       Simpatico       Permice Energia       Y-Grade       Permian       PADD 3       Mt. Belvieu, TX       14         12/1/2020       Proposed       Simpatico       Permice Energia       Y-Grade       Corpus Christi, TX       PADD 3       Mt. Belvieu, TX       12         12/1/2020       Proposed       Orbit Gulf       ET       Ethane       Corpus Christ	6/1/2019	New Build	Grand Prix	TRGP	Y-Grade		Hughes County,	PADD 2	North TX	150
3/1/2020       Proposed       Ärbückle II       OKE       Y-Grade       Velma, OK       PADD 2 (Conway)       Mt. Belvieu, TX       44         11/1/2018       Proposed       Mariner East 2-Sunoco       LPG       Scio, OH       PADD 1       Marcus Hook, PA       11         3/1/2021       Proposed       Abuckle II       OKE       Y-Grade       Velma, OK       PADD 2 (Conway)       Mt. Belvieu, TX       11         3/1/2020       Proposed       Dixie       EPD       Propane       Hattiesburg, MS       PADD 2       Monaca, PA       11         3/1/2020       Proposed       Falcon       RDS       Ethane       Houston, PA       PADD 3       Mt. Belvieu, TX       11         3/1/2020       Proposed       Front Range       APC / DCP / EPD       Y-Grade       Weld County, CO       PADD 4       Skeliytown, TX       11         12/1/2020       Proposed       Companero       Permica       Permica       Corpus Christi, TX       20       11         12/1/2020       Proposed       Simpatico Mont Permica Energia       E/Hane       Propane       Corpus Christi, TX       PADD 3       Mt. Belvieu, TX       21         12/1/2020       Proposed       North Dakota       ANDX       Y-Grade       Mt. Belvieu, TX <td>6/1/2019</td> <td>New Build</td> <td>Grand Prix</td> <td>TRGP</td> <td>Y-Grade</td> <td></td> <td>North TX</td> <td>PADD 3</td> <td>Mt. Belvieu, TX</td> <td>450</td>	6/1/2019	New Build	Grand Prix	TRGP	Y-Grade		North TX	PADD 3	Mt. Belvieu, TX	450
11/1/2018       Proposed       Mariner East 2- Sunoco       LPG       Scio, OH       PADD 1       Marcus Hook, PA       14         3/1/2021       Proposed       Arbuckle II       OKE       Y-Grade       Velma, OK       PADD 2       Mt. Belvieu, TX       14         3/1/2020       Proposed       Dixle       EPD       Propane       Hattesburg, MS       PADD 3       Mt. Belvieu, TX       16         3/1/2020       Proposed       Facion       RDS       Ethane       Houston, PA       PADD 3       Mt. Belvieu, TX       16         6/1/2019       Proposed       Front Rang       APC / DCP / EPD       Y-Grade       Weld County, CO       PADD 3       Mt. Belvieu, TX       10         12/1/2020       Proposed       Simpatico Mnet Permico Energia       E/P Mix       Y-Grade       Orgus Christi, TX       PADD 3       Mt. Belvieu, TX       11         12/1/2020       Proposed       Simpatico Mnet Permico Energia       E/P Mix       Y-Grade       Orgus Christi, TX       PADD 3       Mt. Belvieu, TX       12         12/1/2020       Proposed       Örbit Gulf       ET       Ethane       Mt. Belvieu, TX       PADD 3       (Intrastate)       11         12/1/2020       Proposed       North Backot ANDX       Y-Grade	6/1/2019	New Build	Grand Prix	TRGP	Y-Grade		Permian	PADD 3 (Permian)		300
3/1/2021       Proposed       Arbuckle II       OKE       Y-Grade       Velma, OK       PADD 2 (Conway)       Mt. Belvieu, TX       10         3/1/2020       Proposed       Dixie       EPD       Propane       Hattiesburg, MS       PADD 3       Mt. Belvieu, TX       10         6/1/2019       Proposed       Texas Express       APC / DC / EPD       Y-Grade       Weld County, CD       PADD 3       Mt. Belvieu, TX       10         6/1/2019       Proposed       Gompanero       Permico Energia       Y-Grade       Weld County, CD       PADD 3       Mt. Belvieu, TX       10         12/1/2020       Proposed       Simpatico       Permico Energia       Y-Grade       Permian       PADD 3       Mt.Belvieu, TX       10         12/1/2020       Proposed       Simpatico       Permico Energia       EI/P Mix       Y-Grade       Corpus Christi, TX       PADD 3       Mtagorda, TX       10         12/1/2020       Proposed       Örbit Gulf       ET       Ethane       Mt. Belvieu, TX       PADD 3       Mtrastate)       11         12/1/2020       Proposed       New Burgos       NuStar       LPG       Ethane       Mt. Belvieu, TX       PADD 3       Mtrastate)       11         12/1/2019       Proposed	3/1/2020	Proposed	Arbuckle II	OKE	Y-Grade		Velma, OK	PADD 2 (Conway)	Mt. Belvieu, TX	400
S/1/2019     Proposed     Dixle     EPD     Propane     Hattlesburg, MS     PADD 3     Mt. Belvieu, TX     State       S/1/2020     Proposed     Faicon     RDS     Ethane     Houston, PA     PADD 2     Monaca, PA     11       S/1/2019     Proposed     Frant Range     APC / DCP / EPD     Y-Grade     Skellytown, TX     PADD 3     Mt. Belvieu, TX     53       S/1/2020     Proposed     Front Range     APC / DCP / EPD     Y-Grade     Weld County, CP     PADD 3     Mt. Belvieu, TX     11       12/1/2020     Proposed     Simpatico Mont Permico Energia     E/P Mix     Y-Grade     Permian     PADD 3     Mt. Belvieu, TX     11       12/1/2020     Proposed     Simpatico Mont Permico Energia     E/P Mix     Y-Grade     Corpus Christi, TX     PADD 3     Mt. Belvieu, TX     12       12/1/2020     Proposed     Örbit Gulf     ET     Ethane     Propane     Corpus Christi, TX     PADD 3     Mt. Belvieu, TX     12       12/1/2020     Proposed     North Dakota     ANDX     Y-Grade     Edinburg, TX     PADD 3     Itamatipas, MX     11       12/1/2019     Proposed     North Dakota     ANDX     Y-Grade     McKenzie County, TX     PADD 3     Gorpus Christi, TX       12/1/2019 <td< td=""><td>11/1/2018</td><td>Proposed</td><td>Mariner East 2</td><td>-Sunoco</td><td>LPG</td><td></td><td>Scio, OH</td><td>PADD 1</td><td>Marcus Hook, PA</td><td>150</td></td<>	11/1/2018	Proposed	Mariner East 2	-Sunoco	LPG		Scio, OH	PADD 1	Marcus Hook, PA	150
3/1/2020       Proposed       Falcon       RDS       Ethane       Houston, PA       PADD 2       Monaca, PA       100         6/1/2019       Proposed       Texas Express       APC / DCP / ENB / EPD       Y-Grade       Skellytown, TX       PADD 3       Mt. Belvieu, TX       92         6/1/2019       Proposed       Companero       Permico Energia       Y-Grade       Weld County, CO       PADD 3       Mt. Belvieu, TX       11         12/1/2020       Proposed       Simpatico       Permico Energia       Y-Grade       Permian       PADD 3       Mtagorda, TX       11         12/1/2020       Proposed       Simpatico Mont       Permico Energia       E/P Mix       Y-Grade       Corpus Christi, TX       PADD 3       Mtagorda, TX       11         12/1/2020       Proposed       Orbit Guif       ET       Ethane       Proposed       Corpus Christi, TX       PADD 3       Mtagorda, TX       11         12/1/2019       Proposed       New Burgos       NuStar       LPG       Ethane       Mt. Belvieu, TX       PADD 3       (Intrastate)       10         3/1/2019       Proposed       North Dakota       ANDX       Y-Grade       Stally Count, TX       PADD 3       (Eagle Ford)       Tamaulipas, MX       10 <t< td=""><td>3/1/2021</td><td>Proposed</td><td>Arbuckle II</td><td>OKE</td><td>Y-Grade</td><td></td><td>Velma, OK</td><td>PADD 2 (Conway)</td><td>Mt. Belvieu, TX</td><td>10</td></t<>	3/1/2021	Proposed	Arbuckle II	OKE	Y-Grade		Velma, OK	PADD 2 (Conway)	Mt. Belvieu, TX	10
6/1/2019       Proposed       Texas Express APC / DCP / ENB / EPD       Y-Grade       Skellytown, TX       PADD 3       Mt. Belvieu, TX       10         6/1/2019       Proposed       Front Range       APC / DCP / EPD       Y-Grade       Weld County, CO       PADD 4       Skellytown, TX       10         12/1/2020       Proposed       Companero       Permico Energia       Y-Grade       Permian       PADD 3 (Permian)       Corpus Christi, TX       30         12/1/2020       Proposed       Simpatico Mont Permico Energia       EI/P Mix       Y-Grade       Corpus Christi, TX       PADD 3       Mt. Belvieu, TX       22         12/1/2020       Proposed       Örbit Gulf       ET       Ethane       Mt. Belvieu, TX       PADD 3       Mt. Belvieu, TX       22         12/1/2020       Proposed       Notth Dakota       ANDX       Y-Grade       Corpus Christi, TX       PADD 3 (Intrastate)       10         6/1/2019       Proposed       Notth Dakota       ANDX       Y-Grade       Sidney, MT       PADD 4 (Williston)       Stark County, ND       24         12/1/2019       Proposed       Sand Hills       DCP       Y-Grade       Permian       PADD 3 (Permian)       Mt. Belvieu, TX       10         12/1/2019       Proposed       Sand	3/1/2019	Proposed	Dixie	EPD	Propane		Hattiesburg, MS	PADD 3	Mt. Belvieu, TX	90
Front Range       APC / DCP / EPD       Y-Grade       Weld County, CO       PADD 4       Skellytown, TX       Mathematical Strength         12/1/2020       Proposed       Companiero       Permico Energia       Y-Grade       Permian       PADD 3 (Permian)       Corpus Christi, TX       33         12/1/2020       Proposed       Simpatico       Permico Energia       E/P Mix       Y-Grade       Corpus Christi, TX       PADD 3       Matagorda, TX       11         12/1/2020       Proposed       Simpatico       Memico Energia       Ethane       Proposed       Corpus Christi, TX       PADD 3       Matagorda, TX       11         12/1/2020       Proposed       Örbit Gulf       ET       Ethane       Proposed       Corpus Christi, TX       PADD 3 (Intrastate)       Mt. Belvieu, TX       22         12/1/2019       Proposed       Noth Dakota       ANDX       Y-Grade       McKenzie County, TP ADD 3 (Eagle Ford)       Tamaulipas, MX       10         12/1/2019       Proposed       VelociFrac       SIMP       Ethane       La Salle County, TP ADD 4 (Williston)       Bushcon, KS       22         12/1/2018       Proposed       Sauth Hills       DCP       Y-Grade       Condensate       Fox Creek, AB       Canada       11         10/1/2018 <td>3/1/2020</td> <td>Proposed</td> <td>Falcon</td> <td>RDS</td> <td>Ethane</td> <td></td> <td>Houston, PA</td> <td>PADD 2</td> <td>Monaca, PA</td> <td>10</td>	3/1/2020	Proposed	Falcon	RDS	Ethane		Houston, PA	PADD 2	Monaca, PA	10
12/1/2020       Proposed       Companero       Permico Energia       Y-Grade       Permian       PADD 3 (Permian)       Corpus Christi, TX       33         12/1/2020       Proposed       Simpatico       Permico Energia       E/P Mix       Y-Grade       Corpus Christi, TX       PADD 3       Matagorda, TX       11         12/1/2020       Proposed       Simpatico       Mont Permico Energia       Ethane       Proposed       Corpus Christi, TX       PADD 3       Mt. Belvieu, TX       22         12/1/2020       Proposed       Örbit Gulf       ET       Ethane       Mt. Belvieu, TX       PADD 3 (Intrastate)       11         6/1/2019       Proposed       North Dakota       ANDX       Y-Grade       McKenzie County, RD 2 (Williston)       Stark County, ND       21         12/1/2019       Proposed       Sand Hills       DCP       Y-Grade       Permian       PADD 3 (Permian)       Mt. Belvieu, TX       10         12/1/2019       Proposed       Sand Hills       DCP       Y-Grade       Permian       PADD 3 (Permian)       Mt. Belvieu, TX       10         10/1/2018       Proposed       Sand Hills       DCP       Y-Grade       Condensate       Fox Creek, AB       Canada       11         10/1/2018       Proposed	6/1/2019	Proposed	Texas Express	APC / DCP / ENB / EPD	Y-Grade		Skellytown, TX	PADD 3	Mt. Belvieu, TX	90
12/1/2020       Proposed       Simpatico       Permico Energia       E/P Mix       Y-Grade       Corpus Christi, TX       PADD 3       Matagorda, TX       11         12/1/2020       Proposed       Simpatico Mont Permico Energia       Ethane       Propane       Corpus Christi, TX       PADD 3       Mt. Belvieu, TX       22         12/31/2020       Proposed       Örbit Gulf       ET       Ethane       Mt. Belvieu, TX       PADD 3 (Intrastate)       11         6/1/2019       Proposed       New Burgos       NuStar       LPG       Edinburg, TX       PADD 3 (Eagle Ford)       Tamaulipas, MX       10         3/1/2019       Proposed       North Dakota       ANDX       Y-Grade       McKenzie County,       PADD 4 (Williston)       Stark County, ND       10         12/1/2019       Proposed       VelociFrac       SNMP       Ethane       La Salle County, TX       PADD 3 (Permian)       Mt Belvieu, TX       10         10/1/2018       Proposed       Southern       ENB       Natural       Diluent       Chicago, IL       PADD 2       Edmonton, Alberta       10         10/1/2018       Proposed       Vantage       Pembina Pipeline       Ethane       North Dakota       PADD 2       Kankakee County, IL       10         10/1	6/1/2019	Proposed	Front Range	APC / DCP / EPD	Y-Grade		Weld County, CO	PADD 4	Skellytown, TX	10
12/1/2020       Proposed       Simplatico Mont Permico Energia       Ethane       Propane       Corpus Christi, TX       PADD 3       Mt. Belvieu, TX       22         12/3/2020       Proposed       Örbit Gulf       ET       Ethane       Mt. Belvieu, TX       PADD 3       Intrastate)       11         5/1/2019       Proposed       New Burgos       NuStar       LPG       Edinburg, TX       PADD 3 (Eagle Ford)       Tamaulipas, MX       11         3/1/2019       Proposed       North Dakota       ANDX       Y-Grade       Sidney, MT       PADD 4 (Williston)       Stark County, ND       72         12/1/2019       Proposed       VelociFrac       SIMP       Ethane       La Salle County, TX       PADD 4 (Williston)       Bushton, KS       22         TBD       Proposed       VelociFrac       SIMP       Ethane       La Salle County, TX       PADD 3 (Permian)       Mt. Belvieu, TX       11         10/1/2018       Proposed       Southern       ENB       Natural       Diluent       Cordensate       Fox Creek, AB       Canada       11         10/1/2018       Proposed       Votopia West       KMI       Diluent       Harrison, OH       PADD 2       Kankakee County, IL       62         TBD       Proposed	12/1/2020	Proposed	Companero	Permico Energia	Y-Grade		Permian	PADD 3 (Permian)	Corpus Christi, TX	30
12/31/2020       Proposed       Örbit Gulf       ET       Ethane       Mt. Belvieu, TX       PADD 3 (Intrastate)       11         6/1/2019       Proposed       New Burgos       NuStar       LPG       Edinburg, TX       PADD 3 (Eagle Ford)       Tamaulipas, MX       10         3/1/2019       Proposed       North Dakota       ANDX       Y-Grade       McKenzie County,       PADD 2 (Williston)       Stark County, ND       24         12/1/2019       Proposed       Elk Creek       OKE       Y-Grade       Sidney, MT       PADD 4 (Williston)       Bushton, KS       24         12/1/2018       Proposed       VelociFrac       SIMP       Ethane       La Salle County, TX       PADD 3 (Permian)       Mt. Belvieu, TX       10         10/1/2018       Proposed       Sand Hills       DCP       Y-Grade       Condensate       Fox Creek, AB       Canada       11         10/1/2018       Proposed       Southern       ENB       Natural       Diluent       Harrison, OH       PADD 2       Kankakee County, IL       92         110       BD       Proposed       Vodosboro to       Southcross Energy       Y-Grade       Woodsboro, TX       PADD 2       Kankakee County, IL       92         12/1/2019       Repurposed	12/1/2020	Proposed	Simpatico	Permico Energia	E/P Mix	Y-Grade	Corpus Christi, TX	PADD 3	Matagorda, TX	17
6/1/2019       Proposed       New Burgos       NuStar       LPG       Edinburg, TX       PADD 3 (Eagle Ford)       Tamaulipas, MX       10         3/1/2019       Proposed       North Dakota       ANDX       Y-Grade       McKenzie County,       PADD 2 (Williston)       Stark County, ND       22         12/1/2019       Proposed       Elk Creek       OKE       Y-Grade       Starkey, MT       PADD 4 (Williston)       Bushton, KS       22         12/1/2019       Proposed       Sand Hills       DCP       Y-Grade       Permian       PADD 3 (Permian)       Mt Belvieu, TX       10         10/1/2018       Proposed       Southern       ENB       Natural       Diluent       Chicago, IL       PADD 2       Kankakee County, IL       9         110       Proposed       Southern       ENB       Natural       Diluent       Chicago, IL       PADD 2       Kankakee County, IL       9         121/1/2018       Proposed       Vooisa West       KMI       Diluent       Chicago, IL       PADD 2       Kankakee County, IL       9         121/1/2018       Proposed       Vooisa West       KMI       Diluent       Harrison, OH       PADD 2       Kankakee County, IL       9         121/1/2019       Repurposed	12/1/2020	Proposed	Simpatico Mont	Permico Energia	Ethane	Propane	Corpus Christi, TX	PADD 3	Mt. Belvieu, TX	25
3/1/2019       Proposed       North Dakota       ANDX       Y-Grade       McKenzie County,       PADD 2 (Williston)       Stark County, ND         12/1/2019       Proposed       Elk Creek       OKE       Y-Grade       Sidney, MT       PADD 4 (Williston)       Bushon, KS       24         TBD       Proposed       VelociFrac       SIMP       Ethane       La Salle County, TX PADD 3       Corpus Christi, TX       10         10/1/2018       Proposed       Sand Hills       DCP       Y-Grade       Permian       PADD 3 (Permian)       Mt. Belvieu, TX       10         10/1/2018       Proposed       Southern       ENB       Natural       Diluent       Chicago, IL       PADD 2       Kankakee County, IL       52         TBD       Proposed       Southern       ENB       Natural       Diluent       Harrison, OH       PADD 2       Kankakee County, IL       52         TBD       Proposed       Vantage       Permbina Pipeline       Ethane       North Dakota       PADD 2 (Williston)       Vantage Pipeline       24         TBD       Proposed       Woodsboro to       Southcross Energy       Y-Grade       Woodsboro, TX       PADD 3       Robstown, TX         12/1/2019       Repurposed       White Clifts       Y-Grade	12/31/2020	Proposed	Orbit Gulf	ET	Ethane		Mt. Belvieu, TX	PADD 3 (Intrastate)		17
12/1/2019       Proposed       Elk Creek       OKE       Y-Grade       Sidney, MT       PADD 4 (Williston)       Bushton, KS       24         TBD       Proposed       VelociFrac       SMMP       Ethane       La Salle County, TX       PADD 3 (Permian)       Mt. Belvieu, TX       Mt. Belvieu, TX       10         TBD       Proposed       Sand Hills       DCP       Y-Grade       Permian       PADD 3 (Permian)       Mt. Belvieu, TX       10         10/1/2018       Proposed       Southern       ENB       Natural       Diluent       Chicago, IL       PADD 2       Edmonton, Alberta       12         TBD       Proposed       Vantage       Pembina Pipeline       Ethane       Noth Dakota       PADD 2 (Williston)       Vantage Pipeline       24         TBD       Proposed       Vantage       Pembina Pipeline       Ethane       Noth Dakota       PADD 2 (Williston)       Vantage Pipeline       24         TBD       Proposed       Woodsboro to       Southcross Energy       Y-Grade       Woodsboro, TX       PADD 3       Robstom, TX       24         T2/1/2019       Repurposed       White Cliffs       Y-Grade       McKenzie County, PADD 3 (Eagle Ford)       Tamaulipas, MX       32         T2/1/2018       Repurposed	6/1/2019	Proposed	New Burgos	NuStar	LPG		Edinburg, TX	PADD 3 (Eagle Ford)	Tamaulipas, MX	108
TBD       Proposed       VelociFrac       SNMP       Ethane       La Salle County, TX PADD 3       Corpus Christi, TX         TBD       Proposed       Sand Hills       DCP       Y-Grade       Permian       PADD 3 (Permian)       Mt. Belvieu, TX       10         10/1/2018       Proposed       Permbina       Permbina Pipeline       Y-Grade       Condensate       Fox Creek, AB       Canada       11         10/1/2018       Proposed       Southern       ENB       Natural       Diluent       Chicago, IL       PADD 2       Edmonton, Alberta       92         TBD       Proposed       Voodsboro to       Southcross Energy       Y-Grade       Woodsboro, TX       PADD 3       Robstown, TX       92         TBD       Proposed       Woodsboro to       Southcross Energy       Y-Grade       Woodsboro, TX       PADD 3       Robstown, TX       92         T2/1/2019       Repurposed       White Cliffs       Y-Grade       McKenzie County, PADD 3 (Eagle Ford)       Williams County, ND       94         6/1/2018       Repurposed       Cherry Creek       OKE       Y-Grade       McKenzie County, PADD 3 (Eagle Ford)       Tamaulipas, MX       92         6/1/2018       Repurposed       Cortin (Main)       KMI       G3 & C4       E/P	3/1/2019	Proposed	North Dakota	ANDX	Y-Grade		McKenzie County,	PADD 2 (Williston)	Stark County, ND	1
Proposed         Sand Hills         DCP         Y-Grade         Permian         PADD 3 (Permian)         Mt. Belvieu, TX         Mt           10/1/2018         Proposed         Pembina         Pembina         Pienbina         Pienbina <td< td=""><td>12/1/2019</td><td>Proposed</td><td>Elk Creek</td><td>OKE</td><td>Y-Grade</td><td></td><td>Sidney, MT</td><td>PADD 4 (Williston)</td><td>Bushton, KS</td><td>240</td></td<>	12/1/2019	Proposed	Elk Creek	OKE	Y-Grade		Sidney, MT	PADD 4 (Williston)	Bushton, KS	240
10/1/2018       Proposed       Pembina       Pembina       Pienbina       Diluent       Condensate       Fox Creek, AB       Canada       Fox Creek, AB       Canada       Fox Creek, AB       Canada       Fox Creek, AB       Pienbina       Pienbina<	TBD	Proposed	VelociFrac	SNMP	Ethane		La Salle County, TX	PADD 3	Corpus Christi, TX	
TBD     Proposed     Southern     ENB     Natural     Diluent     Chicago, IL     PADD 2     Edmonton, Alberta     Set       TBD     Proposed     Utopia West     KMI     Diluent     Harrison, OH     PADD 2     Kankakee County, IL     Set       TBD     Proposed     Vantage     Pembina Pipeline     Ethane     North Dakota     PADD 2     Kankakee County, IL     Set       TBD     Proposed     Woodsboro to     Southcross Energy     Y-Grade     Woodsboro, TX     PADD 4 (DJ Basin)     Setson, TX       12/1/2018     Repurposed     White Cliffs     Y-Grade     McKenzie County, PADD 2 (Williston)     Williams County, ND     Set       12/1/2018     Repurposed     Cherry Creek     OKE     Y-Grade     McKenzie County, PADD 3 (Eagle Ford)     Tamaulipas, MX     Set       12/1/2018     Repurposed     Cochin (Main)     KMI     C3 & C4     E/P Mix     Fort     Canada     Windsor, Ontario     Set       18D     Repurposed     Centennial     MPLX, EPD     Purity     Y-Grade     Bourbon, IL     PADD 2     Beaumont, TX     24       7/1/2018     Under     South Grand     TRP     Diluent     C3 & C4     E/P Mix     Fort     Canada     Fort Saskatchewan, AB	TBD	Proposed	Sand Hills	DCP	Y-Grade		Permian	PADD 3 (Permian)	Mt. Belvieu, TX	10
TBD     Proposed     Utopia West     KMI     Diluent     Harrison, OH     PADD 2     Kankakee County, IL     Section       TBD     Proposed     Vantage     Pembina Pipeline     Ethane     North Dakota     PADD 2 (Williston)     Vantage Pipeline     2       TBD     Proposed     Woodsboro to     Southcross Energy     Y-Grade     Woodsboro, TX     PADD 3     Robstown, TX       12/1/2019     Repurposed     White Cliffs     Y-Grade     McKenzie County, PADD 2 (Williston)     Williams County, ND     Section       2/1/2019     Repurposed     Cherry Creek     OKE     Y-Grade     McKenzie County, PADD 2 (Williston)     Williams County, ND     Section       6/1/2018     Repurposed     Burgos     NuStar     LPG     Edinburg, TX     PADD 3 (Eagle Ford)     Tamaulipas, MX     Canada       TBD     Repurposed     Cochin (Main)     KMI     C3 & C4     E/P Mix     Fort     Canada     Windsor, Ontario     TBD       TBD     Repurposed     Centennial     MPLX, EPD     Purity     Y-Grade     Bourbon, IL     PADD 2     Beaumont, TX     24       7/1/2018     Under     South Grand     TRP     Diluent     Edmonton, AB     Canada     Fort Saskatchewan, AB	10/1/2018	Proposed	Pembina	Pembina Pipeline	Y-Grade	Condensate	Fox Creek, AB	Canada		180
TBD     Proposed     Vantage     Pembina Pipeline     Ethane     North Dakota     PADD 2 (Williston)     Vantage Pipeline     2       TBD     Proposed     Woodsboro to     Southcross Energy     Y-Grade     Woodsboro, TX     PADD 3     Robstown, TX       12/1/2019     Repurposed     White Cliffs     Y-Grade     DJ Basin     PADD 4 (DJ Basin)     Villiams County, ND     Southcross Energy       12/1/2019     Repurposed     Cherry Creek     OKE     Y-Grade     McKenzie County, PADD 2 (Williston)     Williams County, ND     Southcross Energy       12/1/2019     Repurposed     Burgos     NuStar     LPG     Edinburg, TX     PADD 3 (Eagle Ford)     Tamaulipas, MX     Southscrontario       TBD     Repurposed     Cochin (Main)     KMI     C3 & C4     E/P Mix     Fort     Canada     Windsor, Ontario     South Grand     TRP     Diluent     Edmonton, AB     Canada     Fort Saskatchewan, AB	TBD	Proposed	Southern	ENB	Natural	Diluent	Chicago, IL	PADD 2	Edmonton, Alberta	9
TBD       Proposed       Woodsboro to       Southcross Energy       Y-Grade       Woodsboro, TX       PADD 3       Robstown, TX         12/1/2019       Repurposed       White Cliffs       Y-Grade       DJ Basin       PADD 4 (DJ Basin)       Southcross Energy       Y-Grade       DJ Basin       PADD 4 (DJ Basin)       Southcross Energy       Y-Grade       DJ Basin       PADD 4 (DJ Basin)       Southcross Energy       Southcross Energy       Y-Grade       DJ Basin       PADD 4 (DJ Basin)       Southcross Energy       Y-Grade       McKenzie County, PADD 2 (Williston)       Williams County, ND       Southgrass       Southgras       Southgrass	TBD	Proposed	Utopia West	KMI	Diluent		Harrison, OH	PADD 2	Kankakee County, IL	9
12/1/2019     Repurposed     White Cliffs     Y-Grade     DJ Basin     PADD 4 (DJ Basin)     Secondary       12/1/2019     Repurposed     Cherry Creek     OKE     Y-Grade     McKenzie County, PADD 2 (Williston)     Williams County, ND     Secondary       12/1/2018     Repurposed     Burgos     NuStar     LPG     Edinburg, TX     PADD 3 (Eagle Ford)     Tamaulipas, MX     Secondary       TBD     Repurposed     Cochin (Main)     KMI     C3 & C4     E/P Mix     Fort     Canada     Windsor, Ontario     Secondary       TBD     Repurposed     Centennial     MPLX, EPD     Purity     Y-Grade     Bourbon, IL     PADD 2     Beaumont, TX     24       7/1/2018     Under     South Grand     TRP     Diluent     Edmonton, AB     Canada     Fort Saskatchewan, AB	TBD	Proposed	Vantage	Pembina Pipeline	Ethane		North Dakota	PADD 2 (Williston)	Vantage Pipeline	26
12/1/2019     Repurposed     Cherry Creek     OKE     Y-Grade     McKenzie County, PADD 2 (Williston)     Williams County, ND       6/1/2018     Repurposed     Burgos     NuStar     LPG     Edinburg, TX     PADD 3 (Eagle Ford)     Tamaulipas, MX     Control       TBD     Repurposed     Cochin (Main)     KMI     C3 & C4     E/P Mix     Fort     Canada     Windsor, Ontario     Contario       TBD     Repurposed     Centennial     MPLX, EPD     Purity     Y-Grade     Bourbon, IL     PADD 2     Beaumont, TX     20       7/1/2018     Under     South Grand     TRP     Diluent     Edmonton, AB     Canada     Fort Saskatchewan, AB	TBD	Proposed	Woodsboro to	Southcross Energy	Y-Grade		Woodsboro, TX	PADD 3	Robstown, TX	
6/1/2018     Repurposed     Burgos     NuStar     LPG     Edinburg, TX     PADD 3 (Eagle Ford)     Tamaulipas, MX     C       TBD     Repurposed     Cochin (Main)     KMI     C3 & C4     E/P Mix     Fort     Canada     Windsor, Ontario     C       TBD     Repurposed     Centennial     MPLX, EPD     Purity     Y-Grade     Bourbon, IL     PADD 2     Beaumont, TX     20       7/1/2018     Under     South Grand     TRP     Diluent     Edmonton, AB     Canada     Fort Saskatchewan, AB	12/1/2019	Repurposed	White Cliffs		Y-Grade		DJ Basin	PADD 4 (DJ Basin)		90
TBD     Repurposed     Cochin (Main)     KMI     C3 & C4     E/P Mix     Fort     Canada     Windsor, Ontario     C3       TBD     Repurposed     Centennial     MPLX, EPD     Purity     Y-Grade     Bourbon, IL     PADD 2     Beaumont, TX     20       7/1/2018     Under     South Grand     TRP     Diluent     Edmonton, AB     Canada     Fort Saskatchewan, AB	12/1/2019	Repurposed	Cherry Creek	OKE	Y-Grade		McKenzie County,	PADD 2 (Williston)	Williams County, ND	50
TBD         Repurposed         Centennial         MPLX, EPD         Purity         Y-Grade         Bourbon, IL         PADD 2         Beaumont, TX         20           7/1/2018         Under         South Grand         TRP         Diluent         Edmonton, AB         Canada         Fort Saskatchewan, AB	6/1/2018	Repurposed	Burgos	NuStar	LPG		Edinburg, TX	PADD 3 (Eagle Ford)	Tamaulipas, MX	3
7/1/2018 Under South Grand TRP Diluent Edmonton, AB Canada Fort Saskatchewan, AB	TBD	Repurposed	Cochin (Main)	KMI	C3 & C4	E/P Mix	Fort	Canada	Windsor, Ontario	70
	TBD	Repurposed	Centennial	MPLX, EPD	Purity	Y-Grade	Bourbon, IL	PADD 2	Beaumont, TX	20
Incremental Permian Y-Grade Capacity to USGC by YE2020 19	7/1/2018	Under	South Grand	TRP	Diluent		Edmonton, AB	Canada	Fort Saskatchewan, AB	
	ncremental F	ermian Y-Grad	e Capacity to US	GC by YE2020						192

Source: Platts, Evercore ISI Research

	Owner	Capacity (mb/d)	Expected Completion
SXL-Permian Express III	ET/Sunoco	300	1Q18
Midland-to-Sealy	EPD	540	2Q18
Sunrise Expansion	PAA	500	4Q18
Cactus II	PAA	585	3Q19
Gray Oak	PSX/ANDV/ENB	900	4Q19
EPIC Pipeline	EPIC Midstream	440	3Q19
Permian Gulf Coast (PGC) Pipeline	ET/MMP/MPLX/DK	600	2Q20
Jupiter Pipeline	Jupiter Midstream	1000	3Q20
PAA/XOM JV	XOM/PAA	1000	3Q20

# Exhibit 18: Incremental Planned Permian Crude Oil Pipelines

Note: does not include possible conversion of EPD NGL lines to crude service, which could provide as much as 650 mbpd additional crude service. Source: Rystad, Company Reports, Evercore ISI Research

# Exhibit 19: Existing and Proposed US Crude Export Terminals

Terminal	Owner	Loading Capacity mb/d	Completion	Ability to Fully Load VLCC	Location
Louisiana Offshore Oil Port (LOOP)	LOOP LLC	857	Feb-18	Yes	Port Fourchon, LA
Seaway	EPD/ENB	840	Jun-18	No	Texas City, TX
Ingleside Energy Center	Moda Midstream	1,920	Dec-18	No	Ingleside,TX
Completed		3,617			
Offshore Texas Crude Oil Export Terminal	EPD	2,040	Proposed	Yes	Texas City, TX
Texas COLT Offshore Loading Terminal	ENB, KMI and Oiltanking	2,000	2021/222	Yes	Freeport, TX
Texas Gulf Terminals	Trafigura	500	H2'20	Yes	Corpus Christi, TX
PLT Pipeline Extension	Tallgrass Energy	NA	Q3'21	NA	St. James, LA
Lone Star Ports	The Carlyle Group and The Berry Group	NA	H2'20	No	Corpus Christi, TX
Jupiter Offshore Loading Terminal (JOLT)	Juniper Midstream	1,000	Early 2021	Yes	Brownsville, TX
Harbor Island	MMP and others	NA	NA	NA	Corpus Christi, TX
South Texas Gateway Terminal	BPL, PSXP, ANDV	NA	H2'19	No	Ingleside,TX
MidwayTerminal	Vitol/Hilcorp	NA	NA	No	Corpus Christi
Flint Hills Resources Ingleside Terminal	Flint Hills Resources	NA	NA	No	Ingleside,TX
Announced/Prososed (where loading cap	acity has been identified)	5,540			
Total		9,157			

Source: Company Reports, RBN Energy, Morningstar

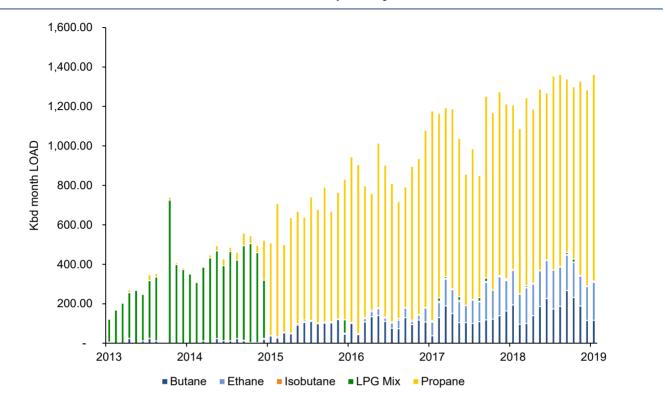
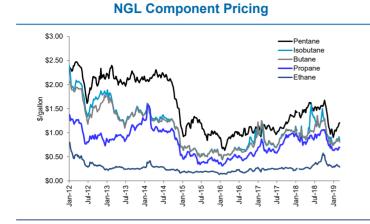


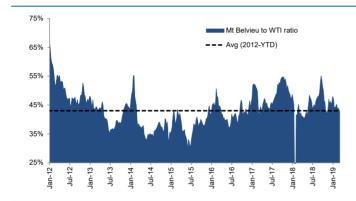
Exhibit 20: US LPG Exports By Product

Source: Clipper Data, Evercore ISI Research

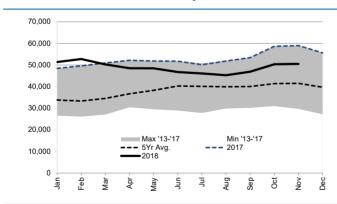


# Exhibit 21: Major Domestic NGL Hubs and Prices

# Mont Belvieu to WTI Ratio



# DOE Ethane / Ethylene Stocks



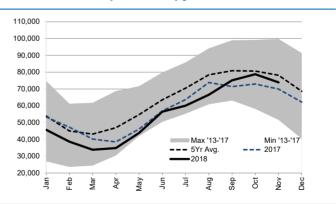
#### Source: Bloomberg, Evercore ISI Research



## **NGL Component Pricing**

This Week 1-Mar-19	2019 YTD Avg Price	4Q18 Avg Price	2018 Average Price
\$1.21	\$1.09	\$1.38	\$1.43
\$0.29	\$0.31	\$0.38	\$0.33
\$0.81	\$0.82	\$1.06	\$1.02
\$0.85	\$0.84	\$1.09	\$1.10
\$0.69	\$0.66	\$0.89	\$0.88
	1-Mar-19 \$1.21 \$0.29 \$0.81 \$0.85	\$1.21 \$1.09 \$0.29 \$0.31 \$0.81 \$0.82 \$0.85 \$0.84	1-Mar-19         Price         Price           \$1.21         \$1.09         \$1.38           \$0.29         \$0.31         \$0.38           \$0.81         \$0.82         \$1.06           \$0.85         \$0.84         \$1.09

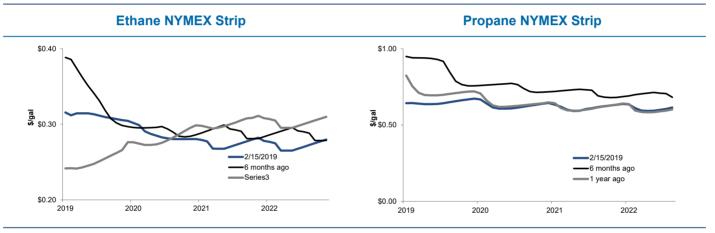
# **DOE Propane / Propylene Stocks**



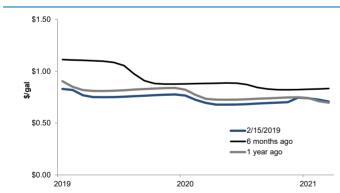
	2017A	2018	1Q19	2Q19	3Q19	4Q19	2019
Ethane	\$0.25	\$0.27	\$0.30	\$0.29	\$0.30	\$0.31	\$0.30
Propane	\$0.77	\$0.84	\$0.79	\$0.72	\$0.72	\$0.74	\$0.74
Butane	\$0.92	\$0.94	\$0.91	\$0.83	\$0.84	\$0.86	\$0.86
Isobutane	\$0.91	\$0.95	\$0.92	\$0.84	\$0.85	\$0.87	\$0.87
Natural Gasoline	\$1.13	\$1.27	\$1.24	\$1.19	\$1.29	\$1.18	\$1.22

# Exhibit 22: Current NYMEX Strip Pricing, NGL Barrel Components (\$/gallon)

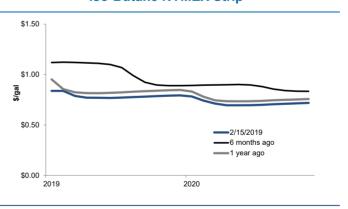
Source: Bloomberg, Evercore ISI Research



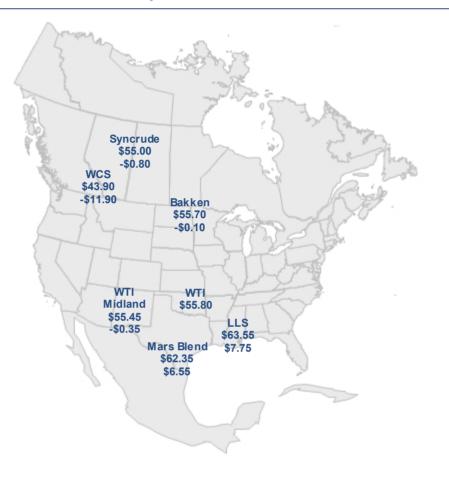
# **Butane NYMEX Strip**



# iso-Butane NYMEX Strip



Source: Bloomberg, Evercore ISI Research



#### Exhibit 23: Major Crude Hubs and Prices

Source: Evercore ISI Energy Research, Bloomberg

#### TIMESTAMP

#### (Article 3(1)e and Article 7 of MAR)

Time of dissemination: March 03 2019 09:40

#### **ANALYST CERTIFICATION**

The analysts, Daniel Walk, Durgesh Chopra, Greg Gordon, primarily responsible for the preparation of this research report attest to the following: (1) that the views and opinions rendered in this research report reflect his or her personal views about the subject companies or issuers; and (2) that no part of the research analyst's compensation was, is, or will be directly related to the specific recommendations or views in this research report.

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#### **Ratings Definitions**

#### **Current Ratings Definition**

Evercore ISI's recommendations are based on a stock's total forecasted return over the next 12 months. Total forecasted return is equal to the expected percentage price return plus gross dividend yield. We divide our stocks under coverage into three primary ratings categories, with the following return guidelines:

Outperform- the total forecasted return is expected to be greater than the expected total return of the analyst's coverage universe In Line- the total forecasted return is expected to be in line with the expected total return of the analyst's universe

Underperform- the total forecasted return is expected to be less than the expected total return of the analyst's universe

**Coverage Suspended**- the rating and target price have been removed pursuant to Evercore ISI policy when Evercore is acting in an advisory capacity in a merger or strategic transaction involving this company and in certain other circumstances.\*

Rating Suspended- Evercore ISI has suspended the rating and target price for this stock because there is not sufficient fundamental basis for determining, or there are legal, regulatory or policy constraints around publishing, a rating or target price. The previous rating and target price, if any, are no longer in effect for this company and should not be relied upon.\*

\*Prior to October 10, 2015, the "Coverage Suspended" and "Rating Suspended" categories were included in the category "Suspended."

FINRA requires that members who use a ratings system with terms other than "Buy," "Hold/Neutral" and "Sell" to equate their own ratings to these categories. For this purpose, and in the Evercore ISI ratings distribution below, our Outperform, In Line, and Underperform ratings can be equated to Buy, Hold and Sell, respectively.

#### **Historical Ratings Definitions**

Prior to March 2, 2017, Evercore ISI's recommendations were based on a stock's total forecasted return over the next 12 months:

**Buy-** the total forecasted return is expected to be greater than 10% **Hold-** the total forecasted return is expected to be greater than or equal to 0% and less than or equal to 10% **Sell** -the total forecasted return is expected to be less than 0%

On October 31, 2014, Evercore Partners acquired International Strategy & Investment Group LLC ("ISI Group") and ISI UK (the "Acquisition") and transferred Evercore Group's research, sales and trading businesses to ISI Group. On December 31, 2015, the combined research, sales and trading businesses were transferred back to Evercore Group in an internal reorganization. Since the Acquisition, the combined research, sales and trading businesses have operated under the global marketing brand name Evercore ISI.

#### ISI Group and ISI UK:

Prior to October 10, 2014, the ratings system of ISI Group LLC and ISI UK which was based on a 12-month risk adjusted total return:

Strong Buy- Return > 20% Buy- Return 10% to 20% Neutral - Return 0% to 10% Cautious- Return -10% to 0% Sell- Return<-10% For disclosure purposes, ISI Group and ISI UK ratings were viewed as follows: Strong Buy and Buy equate to Buy, Neutral equates to Hold, and Cautious and Sell equate to Sell.

#### **Evercore Group:**

Prior to October 10, 2014, the rating system of Evercore Group was based on a stock's expected total return relative to the analyst's coverage universe over the following 12 months. Stocks under coverage were divided into three categories:

Overweight- the stock is expected to outperform the average total return of the analyst's coverage universe over the next 12 months. Equal-Weight- the stock is expected to perform in line with the average total return of the analyst's coverage universe over the next 12 months. Underweight - the stock is expected to underperform the average total return of the analyst's coverage universe over the next 12 months. Suspended- the company rating, target price and earnings estimates have been temporarily suspended.

For disclosure purposes, Evercore Group's prior "Overweight," "Equal-Weight" and "Underweight" ratings were viewed as "Buy," "Hold" and "Sell," respectively.

#### **Ratings Definitions for Portfolio-Based Coverage**

Evercore ISI utilizes an alternate rating system for companies covered by analysts who use a model portfolio-based approach to determine a company's investment recommendation. Covered companies are included or not included as holdings in the analyst's Model Portfolio, and have the following ratings:

**Long**- the stock is a positive holding in the model portfolio; the total forecasted return is expected to be greater than 0%. **Short**- the stock is a negative holding in the model portfolio; the total forecasted return is expected to be less than 0%. **No Position**- the stock is not included in the model portfolio.

**Coverage Suspended**- the rating and target price have been removed pursuant to Evercore ISI policy when Evercore is acting in an advisory capacity in a merger or strategic transaction involving this company, and in certain other circumstances; a stock in the model portfolio is removed. **Rating Suspended** - Evercore ISI has suspended the rating and/or target price for this stock because there is not sufficient fundamental basis for determining, or there are legal, regulatory or policy constraints around publishing, a rating or target price. The previous rating and target price, if any, are no longer in effect for this company and should not be relied upon; a stock in the model portfolio is removed.

Stocks included in the model portfolio will be weighted from 0 to 100% for Long and 0 to -100% for Short. A stock's weight in the portfolio reflects the analyst's degree of conviction in the stock's rating relative to other stocks in the portfolio. The model portfolio may also include a cash component. At any given time the aggregate weight of the stocks included in the portfolio and the cash component must equal100%.

Stocks assigned ratings under the alternative model portfolio-based coverage system cannot also be rated by Evercore ISI's Current Ratings definitions of Outperform, In Line and Underperform.

FINRA requires that members who use a ratings system with terms other than "Buy," "Hold/Neutral" and "Sell," to equate their own ratings to these categories. For this purpose, and in the Evercore ISI ratings distribution below, our Long, No Position and Short ratings can be equated to Buy, Hold and Sell respectively.

#### Evercore ISI rating (as of 03/03/2019)

Coverage Universe			Investment Banking Services I Past 12 Months				
Ratings	Count	Pct.	Ratings	Count	Pct.		
Buy	367	52	Buy	243	66		
Hold	277	39	Hold	138	50		
Sell	40	6	Sell	18	45		
Coverage Suspended	18	3	Coverage Suspended	13	72		
Rating Suspended	8	1	Rating Suspended	5	63		

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