

2023 Capitalization Rate Study Pipelines - Incorporated

Final

Completed: April 28, 2023

Yield Capitalization Rate Conclusion Industry: Pipelines - Incorporated 2023 Assessment Year

Capital Structure [1] Equity Debt	60.00% 40.00%	
Equity Cost of Capital		Weighting
Capital Asset Pricing Model - Ex Post [2]	13.46%	48%
Capital Asset Pricing Model - Ex Ante [2]	11.52%	12%
3 Stage Dividend Discount Model - Dividends [3]	12.06%	20%
3 Stage Dividend Discount Model - Earnings [3]	14.14%	<u>20%</u>
Weighted Average	13.08%	100%
Selected Cost of Equity	13.08%	- =
Debt Cost of Capital		Weighting
A - Mergent's - Avg. YTM of A Rated Corporate Bonds [4]	5.12%	0%
Baa - Mergent's - Avg. YTM of Baa Rated Corporate Bonds [4]	5.59%	60%
Ba - Avg. of MTDOR Debt Study, Bloomberg and Capital IQ	7.04%	40%
B - Avg. of MTDOR Debt Study, Bloomberg and Capital IQ	9.15%	<u>0%</u>
Weighted Average	6.17%	100%
Selected Cost of Debt	6.17%	_

Weighted Average Cost of Capital (WACC)

Source of	Capital		Marginal Tax	Pre-tax Cost of	After-tax Cost
Capital	Structure	Cost of Capital	Rate	Capital	of Capital
Equity	60.00%	13.08%		7.85%	7.85%
Debt	40.00%	6.17%	24.00%	2.47%	1.88%
WACC	100.00%			10.32%	9.72%
WACC (Round	ded)				9.75%

Notes

- [1] From worksheet: Capital Structure
- [2] From worksheet: Capital Asset Pricing Model Summary
- [3] From worksheet: Yield Equity Summary [4] January 2023, Mergent Bond Record

Direct Capitalization Rate Conclusion Industry: Pipelines - Incorporated 2023 Assessment Year

Capital Structure [1]

Equity 60.00% Debt 40.00%

Equity Capitalization Rate [2]

NOI After-tax 6.34% GCF 10.83%

Debt Capitalization Rate [3]

Calculated Current Yield 5.06%

NOI After-tax Direct Capitalization Rate							
Source of Capital	Capital Structure	Capitalization Rate	Marginal Tax Rate	Pre-tax Capitalization Rate	After-tax Capitalization Rate		
Equity	60.00%	6.34%		3.80%	3.80%		
Debt	40.00%	5.06%	24.00%	2.02%	1.54%		
Total	100.00%			5.83%	5.34%		
Total (Rounded)					5.35%		

GCF Direct Capitalization Rate							
Source of Capital	Capital Structure	Capitalization Rate	Marginal Tax Rate	Pre-tax Capitalization Rate	After-tax Capitalization Rate		
Equity	60.00%	10.83%		6.50%	6.50%		
Debt	40.00%	5.06%	24.00%	2.02%	1.54%		
WACC	100.00%			8.52%	8.04%		
Total (Rounded)					8.05%		

Notes:

- [1] From worksheet: Capital Structure
 [2] From worksheet: Direct Equity Summary
- [3] From worksheet: Calculated Current Yield

Selection of Guideline Companies Industry: Pipelines - Incorporated 2023 Assessment Year

Screening Requirements:

The universe of companies is all companies listed in Value Line under the Oil-Gas Distribution industry.

Companies were then selected using the following screening criteria:

- 1. Engaged primarily in providing midstream transportation services.
- 2. Incorporated as a corporation (not a partnership).
- 3. Actively traded on an American exchange.
- 4. Headquartered / incorporated in the United States
- 5. No significant merger & acquisition activity during the year.

			Actively		Consider as			
			traded on an		Potential	Not Engaged	Use as	
Company	Midstream	Not a	American	Incorporated	Guideline	in Material	Guideline	
Ticker	transportation	partnership	exchange	in U.S.	Company	M&A Activity	Company	Note
AM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
CLNE	No				No			
ENB.TO			No		No			[2]
ENLC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
INT	No				No			
KMI	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
LNG	No				No			
OKE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
PPL.TO			No		No			[2]
TRP				No	No			
WMB	Yes	Yes	Yes	Yes	Yes	Yes	Yes	[1]

- [1] WMB's acquisition activity during the year was not significant enough to warrant exclusion from GPC selection
- [2] Though there are interlisted ticker symbols that trade on an American exchange, the ticker listed here is not

Support for Capital Structure Industry: Pipelines - Incorporated 2023 Assessment Year

(\$ and Shares Outstanding In Millions, Except Per Share Amounts)

A	В	С	D	E	F	G	н		J	K	L	M	N
					End of					Total			
					Year					Common,			1
					Closing					Preferred, LT			1
Ticker		Industry	Financial	Shares	Stock	MV Common	MV Preferred	MV Long Term	PV of Operating	Debt, & Op		%	% Debt &
Symbol	Company	Group	Strength	Outstanding	Price	Stock	Stock	Debt	Leases	Leases	% Common	Preferred	Op Leases
		Value Line	Value Line	10-K	Yahoo	ExF	10-K	10-K	10-K	G+H+I+J	G/K	H/K	(I+J)/K
							Note [1]	Note [2]					
AM	Antero Midstream Corp.	OILGAS	C++	479	10.79	5,164	0	3,239	0	8,403	61%	0%	39%
ENLC	EnLink Midstream LLC	OILGAS	C+	469	12.30	5,768	0	4,386	92	10,247	56%	0%	44%
KMI	Kinder Morgan Inc.	OILGAS	В	2,248	18.08	40,638	0	30,070	287	70,995	57%	0%	43%
OKE	ONEOK Inc.	OILGAS	B+	447	65.70	29,378	0	12,721	80	42,179	70%	0%	30%
WMB	Williams Cos.	OILGAS	В	1,219	32.90	40,091	35	21,569	173	61,868	65%	0%	35%
All Comp	anies					121,040	35	71,984	633	193,692	62%	0%	37%
Averag	je										62%	0%	38%
Media	า										61%	0%	39%
Trimm	ed Average										61%	0%	39%
High											70%	0%	44%
Low											56%	0%	30%
Say											60%		40%

Notes:

[1] Market value of preferred stock assumed to equal book value

[2] Market value of debt is fair value of long term debt from 10-K notes

MCA 15-1-210, rationale for changes to guideline companies:

2023 - No changes made to guideline companies

		Median	
Current Year	61%	0%	39%
Prior Year	53%	0%	47%
2 Years Prior	49%	0%	51%
3 Year Average	54%	0%	46%

Capital Asset Pricing Model (CAPM) Industry: Pipelines - Incorporated 2023 Assessment Year

$k_e = R_f + \beta x ERP$

	Ex Post	Ex Ante
k _{e=} Cost of Equity	13.46%	11.52%
R _f = Risk Free Rate	4.14%	4.14%
3 = Beta	1.30	1.30
ERP = Equity Risk Premium (Rm - Rf)	7.17%	5.68%
$R_m = Market Rate of Return$	11.31%	9.82%

Risk Free Rate Measures (R_f):

The Value Line Investment Survey: Selection & Opinion ^[1]	
January 6, 2023 Page 1465	
Selected Yields on Taxable U.S. Treasury Securities as of 12/27/22	
10-year	3.84%
30-year	3.93%
U.S. government securities, Treasury constant maturities, Nominal, December 30, 2022	
10-year	3.88%
20-year	4.14%
30-year	3.97%
Risk Free Rate Selected	4.14%

Notes

- [1] "Value Line Selection & Opinion", Value Line (January 6, 2023)
- [2] https://www.federalreserve.gov/datadownload/Choose.aspx?rel=H.15

Ex Post - Equity Risk Premium Measures (ERP = Rm - Rf)

Kroll, 2023 Cost of Capital Navigator

		$\underline{R_{m}}$	$\underline{K_f}$	<u>ERP</u>
ERP "Historical" - Ex Post	Arithmetic Avg.	11.31%	4.14%	7.17%
ERP "Supply-side" - Ex Post	Arithmetic Avg.	10.49%	4.14%	6.35%
Ex Post Equity Risk Premium Selecte	d	11.31%	4.14%	7.17%

Capital Asset Pricing Model (CAPM)
Industry: Pipelines - Incorporated
2023 Assessment Year

$k_e = R_f + \beta x ERP$

Fy An	to - Fauity	Rick Pr	amium M	laseurae l	(ERP = Rm	- Rf\
	te - ⊑aaitv	KISK FI	emmum iv	neasures i	(ERF - RIII	- KI)

OOR 3 Stage Dividend Growth Model, S & P 500, See Exhibit	_	_	
	R_m	R_{f}	<u>ERP</u>
ERP - Ex Ante	8.81%	4.14%	4.67%
Kroll, 2023 Cost of Capital Navigator			
	R_m	R_{f}	<u>ERP</u>
ERP "Conditional" - Ex Ante	9.50%	3.50%	6.00%
Damodaran Implied ERP (Jan 1, 2023)			
	R_{m}	$R_{\rm f}$	<u>ERP</u>
Implied Premium - Ex Ante - Trailing 12 month, with adjusted payout	8.99%	3.88%	5.11%
Implied Premium - Ex Ante - Trailing 12 month cash yields	9.82%	3.88%	5.94%
Implied Premium - Ex Ante - Average CF yield last 10 years	9.73%	3.88%	5.85%
Implied Premium - Ex Ante - Net cash yield	9.56%	3.88%	5.68%
Implied Premium - Ex Ante - Normalized earnings and payout	8.71%	3.88%	4.83%
	R _m	$R_{\rm f}$	<u>ERP</u>
<u>Average</u>	9.30%		5.44%
Median	9.50%		5.68%
High	9.82%		6.00%
Low	8.71%		4.67%
Ex Ante Equity Risk Premium Selected	9.82%	4.14%	5.68%

Support for Beta Selection in CAPM Industry: Pipelines - Incorporated 2023 Assessment Year

Α	В	С	D	Е
Ticker		Industry	Financial	
Symbol	Company	Group	Strength	Beta
		Value Line	Value Line	Value Line
AM	Antero Midstream Corp.	OILGAS	C++	1.10
ENLC	EnLink Midstream LLC	OILGAS	C+	1.55
KMI	Kinder Morgan Inc.	OILGAS	В	1.10
OKE	ONEOK Inc.	OILGAS	B+	1.45
WMB	Williams Cos.	OILGAS	В	1.15
Average				1.27
Median				1.15
Trimmed A	Average			1.23
High				1.55
Low				1.10
Say				1.30

Inflation & Real Growth Industry: Pipelines - Incorporated 2023 Assessment Year

				Nomina	Growth
Α	В	С	D	E	F
Source Description	Inflation (CPI)	Real Growth (GDP)	Nominal Growth	Low	High
Livingston Survey ^[1]	2.55%	1.97%	4.52%		
Survey of Professional Forecasters ^[2]	2.44%	1.96%	4.40%		
Congressional Budget Office ^[3]	2.30%	1.80%	4.10%		
Average	2.43%	1.91%	4.34%		
Median	2.44%	1.96%	4.40%		
High	2.55%	1.97%	4.52%		
Low	2.30%	1.80%	4.10%		
Selected	2.45%	2.00%	4.45%	4.10%	4.52%

Inflationary Trend	l Factors					
Year	Dec. CPI-U Index	Percent Change From Previous	Dec. to Dec. Conversion Factor	Annual Avg. CPI-U Index	Percent Change From Previous	Annual Conversion Factor
	Note [5]	Note [6]	Note [7]	Note [5]	Note [6]	Note [7]
2011	225.672	2.9%	1.3152	224.939	3.1%	
2012	229.601	1.7%	1.2927	229.594	2.0%	
2013	233.049	1.5%	1.2735	232.957	1.4%	1.2563
2014	234.812	0.8%	1.2640	236.736	1.6%	1.2362
2015	236.525	0.7%	1.2548	237.017	0.1%	1.2347
2016	241.432	2.0%	1.2293	240.007	1.2%	1.2194
2017	246.524	2.1%	1.2039	245.120	2.1%	1.1939
2018	251.233	1.9%	1.1814	251.107	2.4%	1.1655
2019	256.974	2.2%	1.1550	255.657	1.8%	1.1447
2020	260.474	1.3%	1.1394	258.811	1.2%	1.1308
2021	278.802	6.6%	1.0645	270.970	4.5%	1.0800
2022	296.797	6.1%	1.0000	292.655	7.4%	1.0000

Notes

[1] Federal Reserve Bank of Philadelphia The Livingston Survey December 16, 2023 Table 3 Inflation Rate and Real GDP mean

https://www.philadelphiafed.org/research-and-data/real-time-center/livingston-survey

[2] Federal Reserve Bank of Philadelphia Survey of Professional Forecasters February 10, 2023 Table 8 and Table 9 Average over next 10-Year mean

https://www.philadelphiafed.org/surveys-and-data/real-time-data-research/survey-of-professional-forecasters

[3] The Budget and Economic Outlook: 2023 To 2033, Table B-1

https://www.cbo.gov/about/products/budget-economic-data#4

[5] Historical Consumer Price Index for All Urban Consumers (CPI-U): U.S. city average, all items, index averages (1982-84=100, unless otherwise noted)

https://www.bls.gov/cpi/tables/supplemental-files/historical-cpi-u-202212.pdf

[6] (Row year - Previous Year) / Row Year

[7] Most current year / Row year

3 Stage Dividend Discount Model (DDM) Industry: Pipelines - Incorporated 2023 Assessment Year

$$k_e = (D_1 / P_0) + g$$

k_e = Cost of Equity

D₁ = Expected Dividend

P₀ = Current Price Per Share

g = Sustainable Long-Term Growth

Α	В	С	D	E	F	G	Н	
		2022	2023 Est		Sustainable	Sustainable		Cost of Equity
		Year End Stock	Div'ds Decl'd per	Expected Equity	Long-Term	Long-Term	Cost of Equity	Earnings
Ticker	Company	Price	sh	Payout Yield	Growth Rate [1]	Growth Rate [1]	Dividend Growth	Growth
		Yahoo	Value Line	D/C	Dividends	Earnings	E+F	E+G
		P_{o}	D ₁	D ₁ /P ₀	g	g	k _e	k _e
AM	Antero Midstream Corp.	10.79	0.94	8.71%	11.10%	14.31%	19.81%	23.02%
ENLC	EnLink Midstream LLC	12.30	0.45	3.66%	2.75%	7.03%	6.41%	10.69%
KMI	Kinder Morgan Inc.	18.08	1.15	6.36%	7.78%	8.91%	14.14%	15.27%
OKE	ONEOK Inc.	65.70	4.05	6.16%	5.10%	9.28%	11.26%	15.44%
WMB	Williams Cos.	32.90	1.76	5.35%	5.43%	6.36%	10.78%	11.71%
Average							12.48%	15.23%
Median							11.26%	15.27%
Timmed A	Average						12.06%	14.14%
High							19.81%	23.02%
Low							6.41%	10.69%
Selected							12.06%	14.14%

Implied Sustainable LTG: 6.10%

8.41%

Notes:

[1] From worksheet: DDM Sustainable Long-Term Growth

Support for DDM - Short Term Growth Rate Calculations Industry: Pipelines - Incorporated 2023 Assessment Year

Α	В	С	D	E	F	G
		End of Year	Div'ds Decl'd	Expected	Div'ds Decl'd	
		Closing Stock	per sh	Dividend	per sh	Short-Term
Ticker	Company	Price	2023 Est	Yield	2025-2027 Est	Growth Rate
		Yahoo	Value Line	D/C	Value Line	Note [1]
AM	Antero Midstream Corp.	10.79	0.94	8.71%	1.35	12.82%
ENLC	EnLink Midstream LLC	12.30	0.45	3.66%	0.45	0.00%
KMI	Kinder Morgan Inc.	18.08	1.15	6.36%	1.50	9.26%
OKE	ONEOK Inc.	65.70	4.05	6.16%	4.75	5.46%
WMB	Williams Cos.	32.90	1.76	5.35%	2.10	6.06%

Α	В	С	D	E
		Earnings per	Earnings per	
		share	share	Short-Term
Ticker	Company	2023 Est	2025-2027 Est	Growth Rate
		Value Line	Value Line	Note [1]
AM	Antero Midstream Corp.	0.85	1.35	16.67%
ENLC	EnLink Midstream LLC	0.65	0.85	9.35%
KMI	Kinder Morgan Inc.	1.25	1.70	10.79%
OKE	ONEOK Inc.	4.20	5.80	11.36%
WMB	Williams Cos.	1.85	2.30	7.53%

<u>Notes</u>

[1] 4 year compound annual growth rate (CAGR) - 3 periods

Support for DDM - Sustainable Long Term Growth Industry: Pipelines - Incorporated 2023 Assessment Year

Dividend	Growth Rate								Stage 1				
Ticker	Company	Year End Stock Price	Expected Short-Term Dividend Growth Rate	Expected Long-Term Growth Rate	Expected Dividend Yield	Internal Rate of Return	Implied Sustainable Long-Term Growth Rate (g)	Initial Investment	D_1	D_2	D_3	D ₄	D ₅
		Yahoo	Note [1]	Note [2]	D ₁ /P ₀	Ke = IRR of D ₁ :D ₅₀₀	g = IRR - Div. Yield		·	-	,	-	ŭ
AM	Antero Midstream Corp.	10.79	12.82%	4.45%	8.71%	19.81%	11.10%	(10.79)	0.94	1.06	1.20	1.35	1.52
ENLC	EnLink Midstream LLC	12.30	0.00%	4.45%	3.66%	6.41%	2.75%	(12.30)	0.45	0.45	0.45	0.45	0.45
KMI	Kinder Morgan Inc.	18.08	9.26%	4.45%	6.36%	14.14%	7.78%	(18.08)	1.15	1.26	1.37	1.50	1.64
OKE	ONEOK Inc.	65.70	5.46%	4.45%	6.16%	11.26%	5.10%	(65.70)	4.05	4.27	4.50	4.75	5.01
WMB	Williams Cos.	32.90	6.06%	4.45%	5.35%	10.78%	5.43%	(32.90)	1.76	1.87	1.98	2.10	2.23

Earnings	Growth Rate		Stage 1										
Ticker	Company	Year End Stock Price	Expected Short-Term Earnings Growth Rate	Expected Long-Term Growth Rate	Expected Dividend Yield		Implied Sustainable Long-Term Growth Rate (g)	Initial Investment	D ₁	D_2	D_3	D₄	D ₅
						Ke = IRR of	g = IRR - Div.				•	·	
		Yahoo	Note [1]	Note [2]	D_1/P_0	D ₁ :D ₅₀₀	Yield						
AM	Antero Midstream Corp.	10.79	16.67%	4.45%	8.71%	23.02%	14.31%	(10.79)	0.94	1.10	1.28	1.49	1.74
ENLC	EnLink Midstream LLC	12.30	9.35%	4.45%	3.66%	10.69%	7.03%	(12.30)	0.45	0.49	0.54	0.59	0.64
KMI	Kinder Morgan Inc.	18.08	10.79%	4.45%	6.36%	15.27%	8.91%	(18.08)	1.15	1.27	1.41	1.56	1.73
OKE	ONEOK Inc.	65.70	11.36%	4.45%	6.16%	15.44%	9.28%	(65.70)	4.05	4.51	5.02	5.59	6.23
WMB	Williams Cos.	32.90	7.53%	4.45%	5.35%	11.71%	6.36%	(32.90)	1.76	1.89	2.03	2.19	2.35

Notes:
[1] From worksheet: DDM Short Term Growth Rate Calculations

[2] From worksheet: Inflation & Real Growth

Support for DDM - Sustainable Long Term Growth Industry: Pipelines - Incorporated 2023 Assessment Year

Dividend	idend Stage 2													Stage 3				
Ticker	D ₆	D ₇	D ₈	D ₉	D ₁₀	D ₁₁	D ₁₂	D ₁₃	D ₁₄	D ₁₅	D ₁₆	D ₁₇	D ₁₈	D ₁₉	D ₂₀	D ₂₁	D ₂₂	D ₅₀₀
AM	1.71	1.92	2.16	2.42	2.72	3.05	3.42	3.84	4.31	4.84	5.44	6.11	6.85	7.69	8.64	9.02	9.42	10,292,100,328
ENLC	0.45	0.45	0.45	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.47	0.47	0.47	0.47	0.49	0.51	560,484,078
KMI	1.79	1.95	2.12	2.31	2.51	2.74	2.98	3.25	3.54	3.86	4.20	4.58	4.99	5.43	5.92	6.18	6.46	7,053,841,737
OKE	5.28	5.56	5.86	6.18	6.51	6.86	7.23	7.62	8.04	8.47	8.92	9.41	9.91	10.45	11.01	11.50	12.01	13,117,978,079
WMB	2.36	2.50	2.65	2.81	2.97	3.15	3.34	3.54	3.75	3.97	4.21	4.46	4.73	5.01	5.31	5.54	5.79	6,320,647,971

Earnings	Stage 2															Stage 3		
Ticker	D_{6}	D ₇	D_8	D_9	D ₁₀	D ₁₁	D ₁₂	D ₁₃	D ₁₄	D ₁₅	D ₁₆	D ₁₇	D ₁₈	D ₁₉	D ₂₀	D ₂₁	D ₂₂	D ₅₀₀
AM	2.02	2.34	2.71	3.14	3.64	4.21	4.88	5.66	6.55	7.59	8.79	10.19	11.81	13.68	15.85	16.55	17.29	18,879,178,848
ENLC	0.70	0.76	0.83	0.91	0.99	1.08	1.18	1.28	1.40	1.53	1.67	1.82	1.98	2.16	2.35	2.46	2.57	2,803,036,213
KMI	1.91	2.11	2.33	2.57	2.84	3.13	3.46	3.82	4.21	4.65	5.13	5.66	6.25	6.90	7.61	7.95	8.31	9,069,546,987
OKE	6.91	7.66	8.49	9.42	10.45	11.59	12.85	14.25	15.80	17.52	19.43	21.55	23.90	26.50	29.39	30.70	32.07	35,019,122,526
WMB	2.53	2.71	2.91	3.12	3.35	3.60	3.86	4.14	4.44	4.77	5.12	5.49	5.90	6.33	6.79	7.09	7.41	8,090,595,259

Support for Yield Capitalization Rate - Debt Rating Industry: Pipelines - Incorporated 2023 Assessment Year

Α	В	С	D	E	F
Ticker		Industry	Financial	Moody's Long Term	Yield to
Symbol	Company	Group	Strength	Rating	Maturity
		Value Line	Value Line	Moodys.com	
AM	Antero Midstream Corp.	OILGAS	C++	Ba2	7.04%
ENLC	EnLink Midstream LLC	OILGAS	C+	Ba1	7.04%
KMI	Kinder Morgan Inc.	OILGAS	В	Baa2	5.59%
OKE	ONEOK Inc.	OILGAS	B+	Baa3	5.59%
WMB	Williams Cos.	OILGAS	В	Baa2	5.59%
All Comp	panies				
Averag	е				6.17%
Median	1				5.59%
Trimme	ed Average				6.07%
High					7.04%
Low					5.59%
Say					6.17%

Support for Direct Capitalization - Equity Capitalization Rates Industry: Pipelines - Incorporated 2023 Assessment Year

Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R
		End of Year Closing					Ke Estimate -	Ke	VL Historic	VL Est		VL Est	Ke Estimate - Cash Flow	Ke Estimate Cash		Book	
Ticker		Stock	VL Historic		VL Historic	VL Est P/E					VL Historic		(Hist.		Market Value		
Symbol	Company	Price	EPS	VL Est EPS		Ratio	(Hist. P/E)	•	Per Share			Ratio	P/CF)	P/CF)	of Equity	of Equity	MTBR
		Yahoo	Value Line	Value Line	C/D	C/E	1/F	1/G	Value Line	Value Line	C/J	C/K	1/L	1/M	Price x Shrs	Value Line	P/Q
AM	Antero Midstream Corp.	10.79	0.68	0.85	15.87	12.69	6.30%	7.88%	0.92	1.15	11.73	9.38	8.53%	10.66%	5,164	2,287	2.26
ENLC	EnLink Midstream LLC	12.30	0.75	0.65	16.40	18.92	6.10%	5.28%	1.30	2.00	9.46	6.15	10.57%	16.26%	5,768	1,324	4.36
KMI	Kinder Morgan Inc.	18.08	1.12	1.25	16.14	14.46	6.19%	6.91%	2.11	2.35	8.57	7.69	11.67%	13.00%	40,638	30,742	1.32
OKE	ONEOK Inc.	65.70	3.83	4.70	17.15	13.98	5.83%	7.15%	4.76	5.30	13.80	12.40	7.25%	8.07%	29,378	6,015	4.88
WMB	Williams Cos.	32.90	1.82	1.85	18.08	17.78	5.53%	5.62%	2.88	3.65	11.42	9.01	8.75%	11.09%	40,091	11,423	3.51
Average	9				16.73	15.57	5.99%	6.57%			11.00	8.93	9.35%	11.82%	_		3.27
Median					16.40	14.46	6.10%	6.91%			11.42	9.01	8.75%	11.09%			3.51
Trimme	d Average				16.57	15.41	6.04%	6.56%			10.87	8.70	9.28%	11.58%			3.37
High					18.08	18.92	6.30%	7.88%			13.80	12.40	11.67%	16.26%			4.88
Low					15.87	12.69	5.53%	5.28%			8.57	6.15	7.25%	8.07%			1.32
Say					15.	77	6.3	4%			9.2	3	10.8	83%			2.55

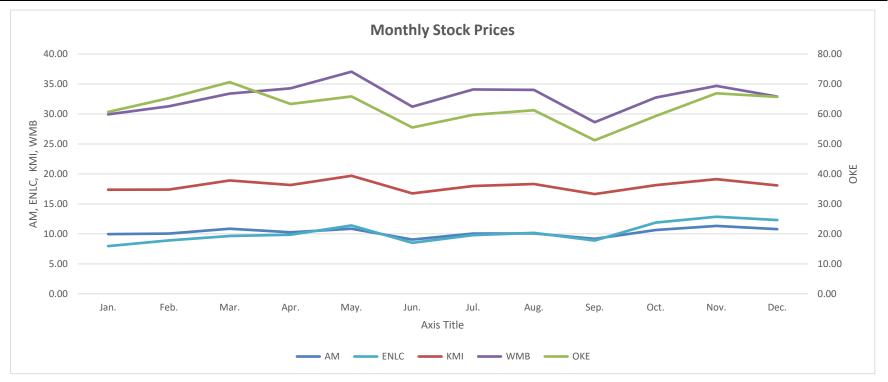
Support for Direct Capitalization - Debt Capitalization Rate Industry: Pipelines - Incorporated 2023 Assessment Year

(\$ in Millions)

Α	В	С	D	E	F	G	Н	I	J
		Current Year	Previous Year	Previous Year	Current Year	Current Year	Average	Current Yield	MTBR
Ticker	Company	Interest Exp.	MV LT Debt	BV LT Debt	MV LT Debt	BV LT Debt	MV LT Debt	Current field	
	Source	10-K	10-K	10-K	10-K	10-K	(D+F)/2	(C/H)	(F/G)
AM	Antero Midstream Corp.	190	3,288	3,123	3,239	3,361	3,263	5.82%	0.96
ENLC	EnLink Midstream LLC	245	4,520	4,364	4,386	4,724	4,453	5.50%	0.93
KMI	Kinder Morgan Inc.	1,513	37,775	33,320	30,070	31,788	33,923	4.46%	0.95
OKE	ONEOK Inc.	676	15,643	13,643	12,721	13,621	14,182	4.77%	0.93
WMB	Williams Cos.	1,167	27,768	23,675	21,569	22,554	24,669	4.73%	0.96
	All Companies	3,791			71,984	76,048	80,490	4.71%	0.95
Average									0.95
Mediar	4.77%	0.95							
Trimm	5.00%	0.95							
High	5.82%	0.96							
Low								4.46%	0.93
Say								5.06%	0.95

Support of Stock Price - From YAHOO Finance Industry: Pipelines - Incorporated 2023 Assessment Year

		End of Period Closing Stock Price											
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Α	В	С	D	Е	F	G	Н	I	J	K	L	M	N
Ticker	Company	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
AM	Antero Midstream Corp.	9.95	10.04	10.87	10.27	10.86	9.05	10.06	10.07	9.18	10.65	11.33	10.79
ENLC	EnLink Midstream LLC	7.96	8.90	9.65	9.87	11.40	8.50	9.80	10.16	8.89	11.88	12.86	12.30
KMI	Kinder Morgan Inc.	17.36	17.40	18.91	18.15	19.69	16.76	17.99	18.32	16.64	18.12	19.12	18.08
OKE	ONEOK Inc.	60.68	65.30	70.63	63.33	65.85	55.50	59.74	61.23	51.24	59.32	66.92	65.70
WMB	Williams Cos.	29.94	31.28	33.41	34.29	37.06	31.21	34.09	34.03	28.63	32.73	34.70	32.90



Maintenance Capital Expenditures Estimate Based on Guideline Companies Industry: Pipelines - Incorporated 2023 Assessment Year

(\$ In Millions)

Α	В	C	D	E	F	G	н	ı	J	K	i L
							Average				
					Average	Depreciation	Life of			Replacement	RC as % of
Ticker	Company	Inflation	PP&E, Gross	PP&E, Gross	PP&E	Expense	Assets			Cost (RC)	Depreciation
			Current Year	Previous Year		Current Year		Note [1]	Note [1]	Note [1]	
		MTDOR (CPI)	10-K, Notes	10-K, Notes	(D+E)/2	10-K	F/G	C*H	1/(1+C)^H	G*I/(1-J)	K/G
AM	Antero Midstream Corp.	2.45%	4,149	3,661	3,905	132	30	0.73	0.49	187	141.83%
ENLC	EnLink Midstream LLC	2.45%	11,331	10,720	11,025	639	17	0.42	0.66	792	123.81%
KMI	Kinder Morgan Inc.	2.45%	56,011	54,445	55,228	1,905	29	0.71	0.50	2,683	140.85%
OKE	ONEOK Inc.	2.45%	25,015	23,821	24,418	626	39	0.96	0.39	979	156.40%
WMB	Williams Cos.	2.45%	47,057	44,184	45,621	1,498	30	0.75	0.48	2,143	143.07%
Average										141.19%	
Median											141.83%
Trimmed Average											
High											156.40%
Low											123.81%
Selected					•		•			•	141.19%

<u>Notes</u>

[1] Cornell, B. & Gerger, R. (2017). Estimating Terminal Values with Inflation: The Inputs Matter-It Is Not a Formulaic Exercise. Business Valuation Review, Volume 36, Number 4, 117-123.