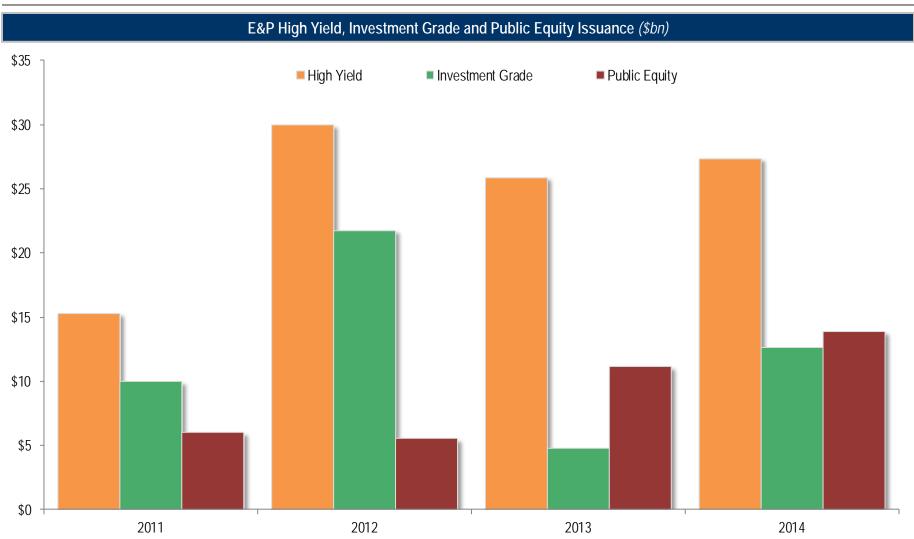
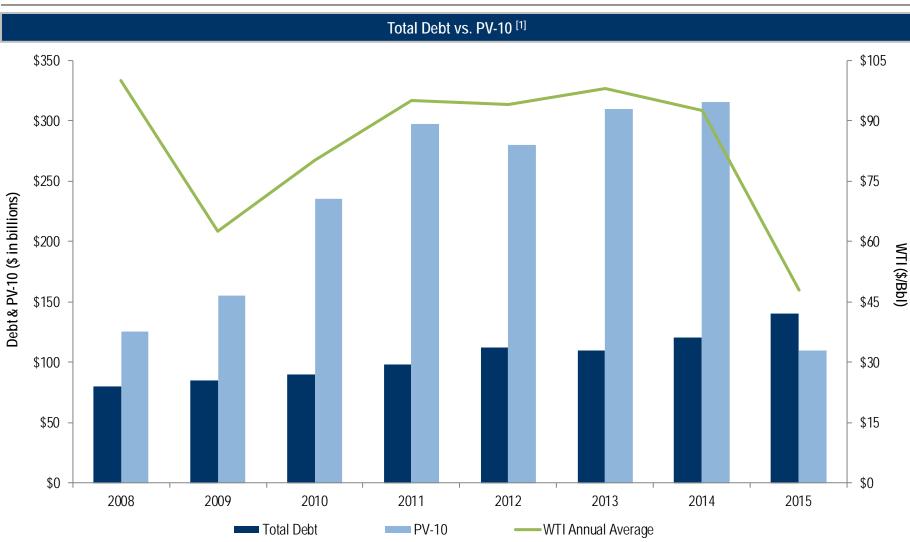
# IPAA: Managing Debt in Troubled Times – Surviving 2016

KeyBanc Capital Markets

# Public Capital Markets E&P Issuance



# U.S. Oil & Gas – Eroding Asset Coverage



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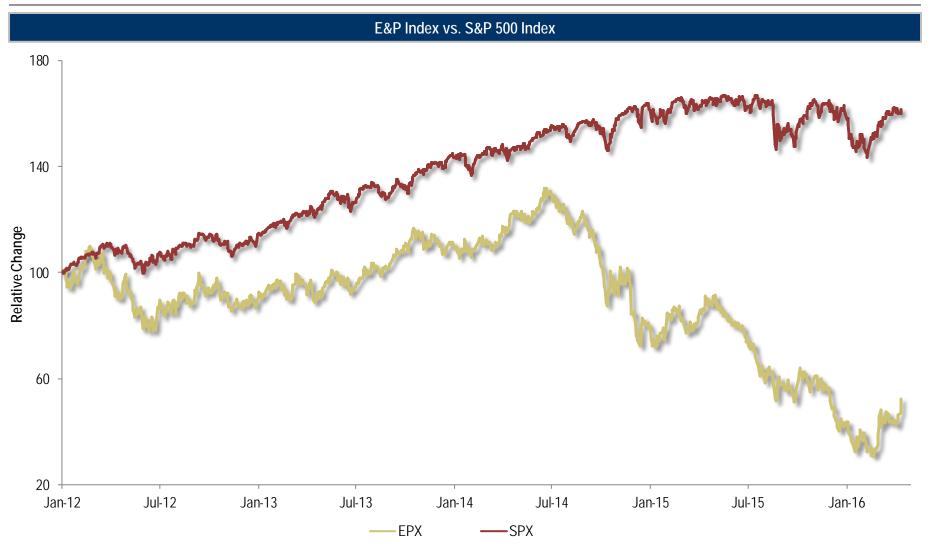
#### U.S. Oil & Gas - Cash Flow Based Leverage



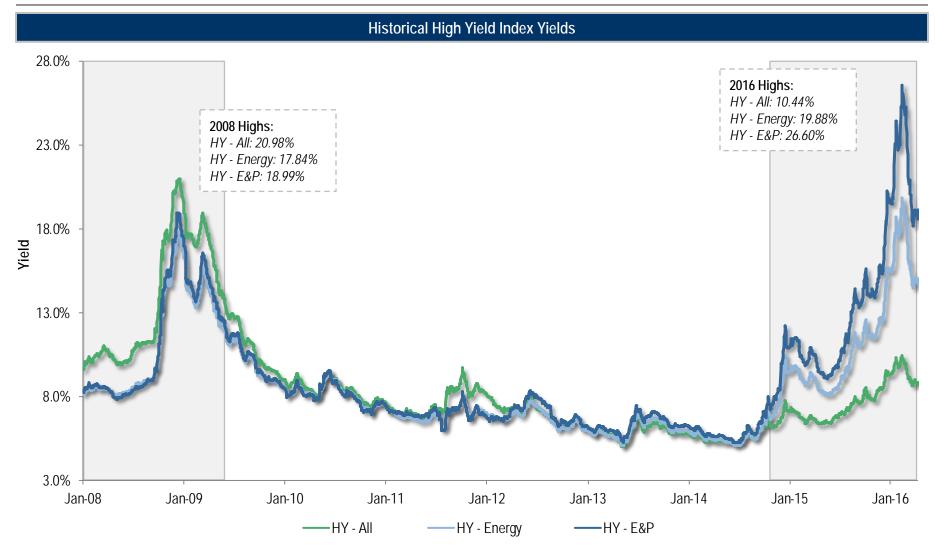
KeyBanc Capital Markets [1] Debt/TTM EBITDA is an aggregate of 48 Large, Mid, Small, and Micro cap companies

[2] Q4 2015 Debt numbers are a mix of actuals and holding debt constant. 2016 and 2017 debt numbers assume no change from Q4 2015; Q4 2015 EBITDA numbers are a mix of actuals and Bloomberg estimates, 2016 and 2017 are Bloomberg estimates; Source: EnerCom

## E&P Equity Market Performance



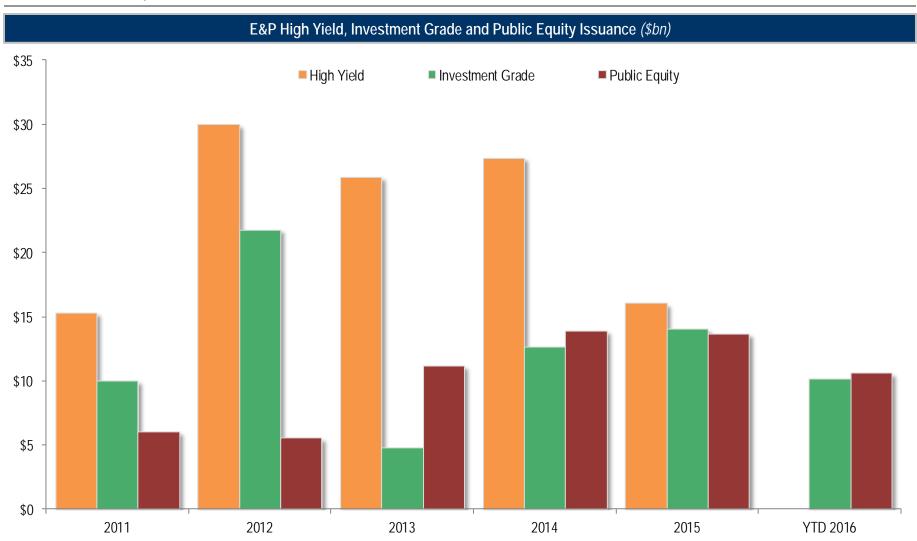
# E&P High Yield Market Performance



# Select Producer Trading Levels

			As of 7/15/2014		As of 11/	30/2014	As of 2/11/2016		As of 4/14/2016	
	Amount	Ratings	Price	YTW	Price	YTW	Price	YTW	Price	YTW
Newfield Exploration 5.625% Sr Notes due '24	\$1,000	Ba3 / BB+	109.625	4.223%	100.875	5.489%	79.063	9.331%	97.719	5.979%
Antero Resources 5.375% Sr Notes due '21	\$1,000	Ba3 / BB	103.813	4.270%	93.438	6.817%	76.688	11.126%	97.250	5.965%
Concho Resources 5.500% Sr Notes due '23	\$1,550	Ba2 / BB+	106.500	4.122%	98.000	5.805%	83.000	8.756%	98.875	5.698%
Range Resources 5.000% Sr Sub Notes due '23	\$750	B1 / BB+	105.250	3.580%	99.125	5.151%	73.563	10.469%	90.000	6.840%
Diamondback Energy 7.625% Sr Notes due '21	\$450	B2 / BB-	109.500	5.454%	103.938	6.335%	96.313	8.482%	104.856	6.043%
Gulfport Energy 7.750% Sr Notes due '20	\$600	B2 / B+	109.000	5.140%	99.000	7.963%	86.000	11.695%	102.250	6.767%
Rice Energy 6.250% Sr Notes due '22	\$900	B3 / B-	102.875	5.487%	91.000	7.875%	71.375	13.293%	97.500	6.761%
SM Energy 5.000% Sr Notes due '24	\$500	B3 / B+	101.688	4.649%	87.000	6.948%	41.000	20.527%	71.000	10.578%
Oasis Petroleum 6.875% Sr Notes due '23	\$400	Caa1 / B+	110.438	5.084%	89.000	8.798%	46.000	23.005%	82.500	10.566%
Whiting Petroleum 5.750% Sr Notes due '21	\$1,048	Caa2 / B	111.188	3.270%	93.000	7.150%	43.000	27.650%	77.500	11.938%
Denbury Resources 5.500% Sr Sub Notes due '22	\$1,250	Caa3 / CCC+	101.250	5.245%	87.000	7.846%	17.000	50.012%	52.375	19.143%
Approach Resources 7.000% Sr Notes due '21	\$230	Caa3 / CCC	104.500	5.928%	84.000	10.439%	17.000	59.900%	50.000	24.624%
Chesapeake Energy 5.750% Sr Notes due '23	\$384	Caa3 / CC	110.313	4.075%	104.500	4.781%	13.000	56.543%	44.181	21.707%
Bonanza Creek Energy 6.750% Sr Notes due '21	\$500	Ca/CC	106.625	3.921%	90.000	8.884%	29.000	41.521%	29.000	41.522%

# **E&P Public Capital Issuance**



KeyBanc Capital Markets Sources: Bloomberg, Morgan Markets

# E&P Universe: Distressed Exchanges, Missed Coupons, Defaults & Bankruptcies

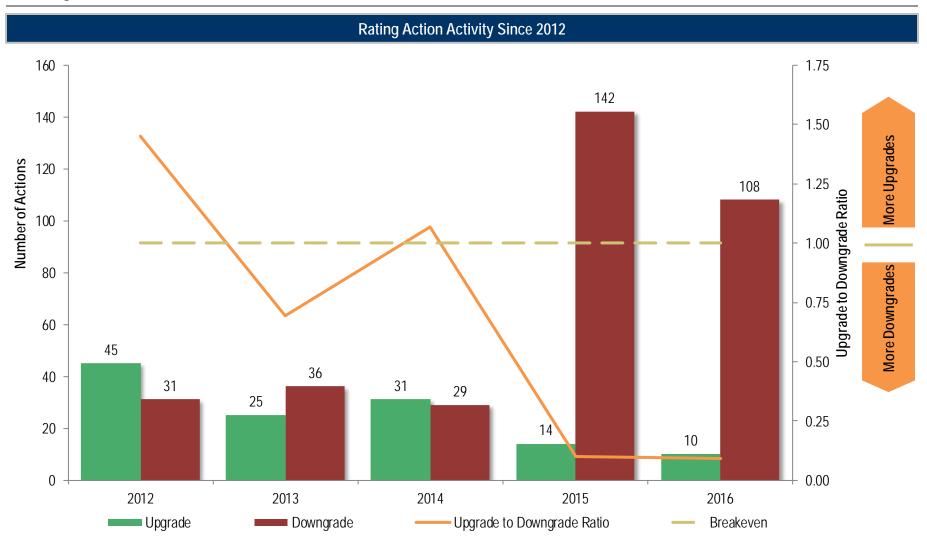
E&P Defaults and Distressed Exchanges									
	2014	2016							
	Volume (\$mm)	Count	Volume (\$mn	n) Count	Volume (\$mm)	Count			
Defaults	\$0.0	0	\$10,628.7	14	\$7,443.4	4			
Distressed Exchanges	\$0.0	0	\$13,201.8	17	\$1,496.8	6			

Missed Coupon Payments								
Issuer	Delayed Debt Payment	Auditor Going Concern Qualification						
SandRidge Energy	2/16/2015	$\checkmark$						
Chaparral Energy	3/1/2016	$\checkmark$						
Midstates Petroleum	4/1/2016	$\checkmark$						
Ultra Petroleum	4/1/2016	$\checkmark$						
Goodrich Petroleum		$\checkmark$						
Penn Virginia		$\checkmark$						

Filed Chapter 11							
Issuer	Filing Date						
Quicksilver Resources	3/17/2015						
American Eagle Energy	5/8/2015						
Saratoga Resources	6/18/2015						
Sabine Oil & Gas	7/15/2015						
Samson Resources	9/17/2015						
Swift Energy	12/13/2015						
Magnum Hunter	12/17/2016						
Venoco	3/18/2016						
Energy XXI	4/14/2016						

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### Rating Actions in the E&P Sector



KeyBanc Sources: Bloomberg, Dealogic Capital Markets

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# Spring BB Redetermination Season – Lender & Borrower Requests

- While the number of issuers seeking covenant relief is relatively small (but increasing), a number of common elements across the requests have emerged
- In exchange for covenant relief (principally leverage and coverage), pricing across the grid has markedly increased with lenders seeking additional protective provisions, including anti-cash hoarding and reductions in various investment & debt baskets

		Denbury <sup>[1]</sup>	Gulfport	Legacy	CRC	Eclipse	Private	Clayton Williams
	Amendment Date:	2/17/16	2/19/16	2/19/16	2/23/16	2/24/16	3/1/16	3/8/16
	BB Reduction:	\$1.6 to \$1.5bn	-	\$900 to \$725mm	\$3.0 to \$2.3bn	-	\$295 to \$280mm	\$450 to \$100mm
	Covenant Relief:							
	Leverage	х		х	х			x
	Interest Coverage	Х		Х	Х	Х		x
uests	Current Ratio							
Borrower Requests	<u>Spending / Basket Approval:</u> CapEx				х			
rrow	Bond Repurchase	х		х	X			
Bo	Debt / Lien Incurrence		Х	X	X	Х		X
	<u>Other Requests:</u> LC Limit Increase					Х		
	General Requests:							
	Pricing Grid Increase	75.0 bps	-	50.0 bps	75.0 bps	50.0 bps	-	75.0 bps
sts	New Pricing Grid Range:	(200-300 bps)	(150-250 bps)	(200-300 bps)	(250-350 bps)	(200-300 bps)	(200-375 bps)	(225-325 bps)
Lender Requests	Mortgage Threshhold Increase	80% to 85%		85% to 90%	80% to 85%	80% to 90%		
r Re	Anti-Cash Hoarding	Х		Х	Х	Х		
ndel	Added Covenant(s)				Х			
Le	13 Week Cash Flow Reporting				Х			x
	Deposit Account Control Agmt.	х						x
	Basket Reductions / Eliminations			Х	Х	Х		X

# Spring BB Redetermination Season – Lender & Borrower Requests (cont'd)

		Private	Range	Whiting	Company A	Company B	Company C <sup>[1]</sup>
	Amendment Date:	3/15/16	3/17/16	3/25/16	In Market	In Market	In Market
	BB Reduction:	-	-	\$4.0 to \$2.75bn	~25%	~15% Increase	~15%
	Covenant Relief:						
	Leverage			х			х
	Interest Coverage					X	Х
Borrower Requests	Current Ratio						
Req	Spending / Basket Approval:						
wer	CapEx						
orro	Bond Repurchase						
ā	Debt / Lien Incurrence			Х	Х		Х
	Other Requests:						
	LC Limit Increase						
	General Requests:						
	Pricing Grid Increase	-	-	50.0 bps	50.0 bps	TBD	50.0 bps
sts	New Pricing Grid Range:	(175-275 bps)	(125-225 bps)	(200-300 bps)	(200-300 bps)	TBD	(175-275 bps)
due	Mortgage Threshhold Increase			80% to 90%		80% to 90%	75% to 90%
' Re	Anti-Cash Hoarding				Х	Х	Х
Lender Requests	Added Covenant(s)					х	
Le	13 Week Cash Flow Reporting						
	Deposit Account Control Agmt.			х		х	х
	Basket Reductions / Eliminations						

# Fallen Angels Join the High Yield Market

	R	ecent Rating Actions						
Fallen Angels								
\$mm	m Bonds Ratings							
Issuer	Outstanding	Previous	Current	July 2014	Current			
Moody's								
Anadarko Petroleum	\$17,257	Baa2 / BBB	Ba1 / BBB	125.082	98.712			
Canadian Oil Sands	\$1,962	Baa3 / BBB-	Ba3 / BBB-	112.250	97.786			
Cenovus Energy	\$6,075	Baa2 / BBB	Ba2 / BBB	102.250	88.637			
Continental Resources*	\$5,800	Baa3 / BBB-	Ba3/BB+	109.172	90.625			
Devon Energy*	\$9,425	Baa1 / BBB+	Ba2 / BBB	105.750	90.922			
Encana Corporation	\$6,012	Baa2 / BBB	Ba2 / BBB	116.600	87.405			
Hess	\$5,650	Baa2 / BBB	Ba1 / BBB-	134.012	100.605			
Marathon Oil	\$6,300	Baa1 / BBB	Ba1 / BBB-	116.316	94.428			
Murphy Oil	\$2,250	Baa3 / BBB	Ba3 / BBB-	110.535	80.614			
Southwestern Energy*	\$3,867	Baa3 / BBB-	B1 / BB+	116.490	84.729			
S&P								
Newfield Exploration	\$2,450	Ba1 / BBB-	Ba3/BB+	106.375	95.667			
	Issuers with 'B	BB' Rating and Negat	tive Outlooks					
\$mm	Bonds	Rati	ngs	Average B	ond Price			
Issuer	Outstanding	Current	Outlook	July 2014	Current			
Apache Corporation <sup>[1]</sup>	\$8,831	Baa3 / BBB	Negative	111.690	98.734			
Canadian Natural Resources <sup>[1]</sup>	\$11,462	Baa3 / BBB+	Negative	118.790	95.372			
ConocoPhillips	\$25,693	Baa2 / A	Negative	125.667	105.732			
Noble Energy	\$6,190	Baa3 / BBB	Negative	113.800	95.947			
Repsol Oil & Gas	\$1,854	Baa3 / BBB-	Negative	113.500	96.982			

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Sources: Bloomberg, Dealogic Note: \* Denotes a rating action by both Moody's and S&P [1] Given stable outlook from S&P

# Potential High Yield Supply on the Rise

		Outsta	anding High Yield Volume	(\$bn)						
\$400 ¬	<ul> <li>Outstanding from E&amp;P 'BBB' Issuers with Negative Outlook</li> <li>Outstanding E&amp;P Fallen Angels</li> <li>Outstanding High Yield E&amp;P</li> </ul>									
\$300 -										
\$200 -										
\$100 -										
\$0 +	2012	2013	2014	2015	YTD 2016					



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