#### **IPAA**

# A&D Market Update



June 28, 2016

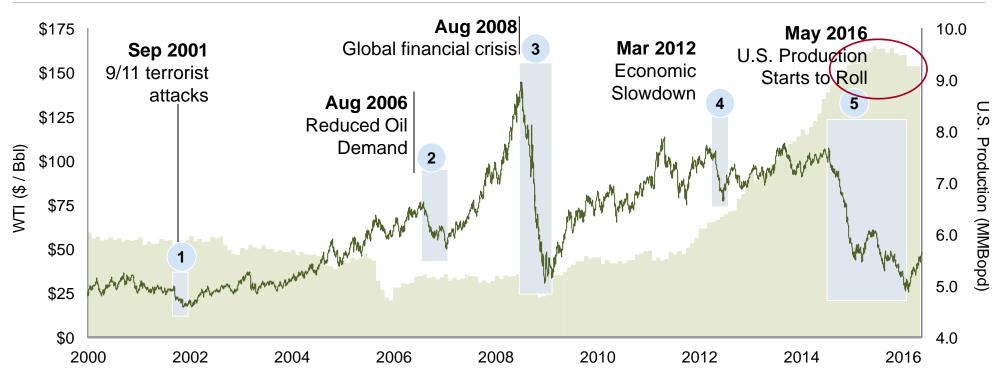
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## How Did We Get Here?

#### WTI Oil Price – 2000 to Present

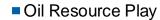


Event	1 9/11 Attacks	2 Reduced Demand	3 Global Financial Crisis	4 Economic Slowdown	5 Oversupply			
Oil price decline	38%	32%	69%	29%	75%			
Decline Period	~2 months	5-6 months	5-6 months	2-4 months	22 months			
Recovery	~1 year	~6 months	~1-2 years	~2 months	?			
Source: Bloomberg as of 06/24/2016, EIA.								

**RBC** Capital Markets Richardson Barr

#### Where Are We Headed?

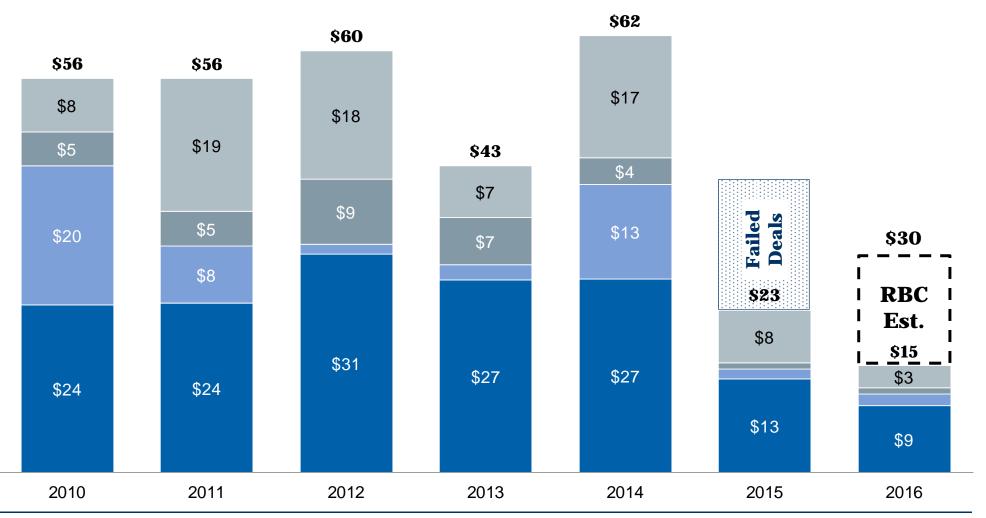
#### Annual U.S. E&P Onshore A&D Activity (\$B) <sup>(1)</sup>



Gas Resource Play

Conventional Oil

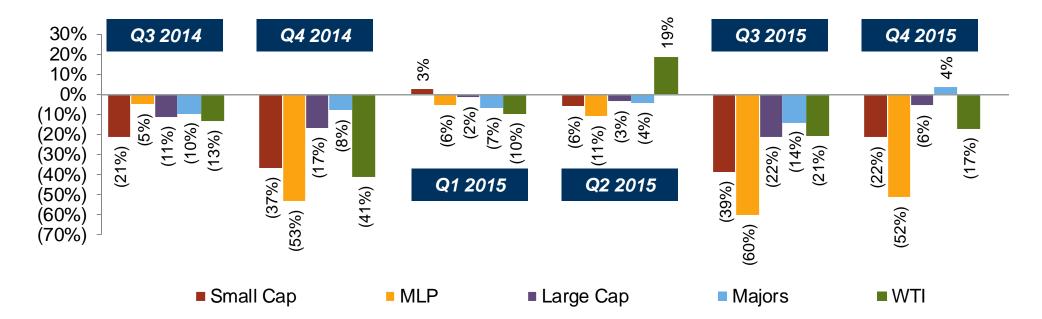




Source: RBC Richardson Barr internal database, public filings, company press releases.
(1) Includes onshore U.S. asset transactions greater than \$20 million.

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## Public Company Value Destruction (Q3 2014 – Q4 2015)



Market Value Gain / (Loss)							
Total %							
(\$315 B)	(31%)						
(\$555 B)	(48%)						
(\$154 B)	(74%)						
(\$22 B)	(94%)						
(\$1 Trillion)							
	Total (\$315 B) (\$555 B) (\$154 B) (\$22 B)						

# Publics Have Issued Equity, Sold Assets And Cut Dividends...

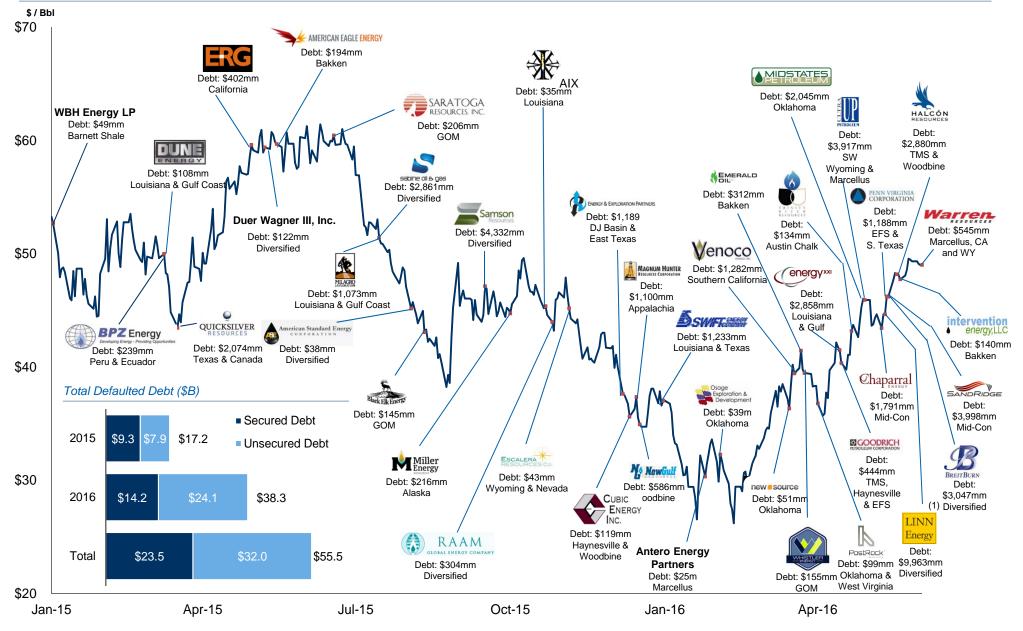
Tools enlisted to protect and/or enhance capital structure expected to remain prevalent during 2H 2016



As of 06/22716.
Based on FactSet data and RBC estimates.
Source: Bloomberg, Dealogic.

# ...But For Many E&Ps, It Was Not Enough To Avoid Bankruptcy

#### WTI Crude Oil 2015 – 2016 Performance vs Reported Bankruptcies



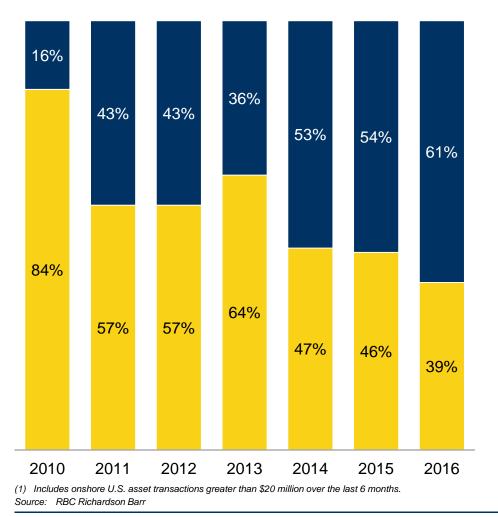
5 Source: Public disclosure, Haynes Boone LLC, FactSet as of June 2, 2016.

(1) Debt as of 3/31/2016 , adjusted for pro-forma events.

# Private Equity Filling The Void Left By Ailing Publics

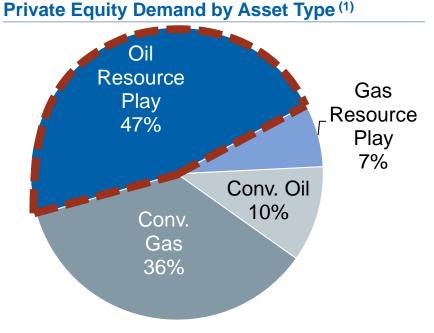
#### Annual U.S. E&P Onshore A&D Demand

Private Equity / Private – Publics



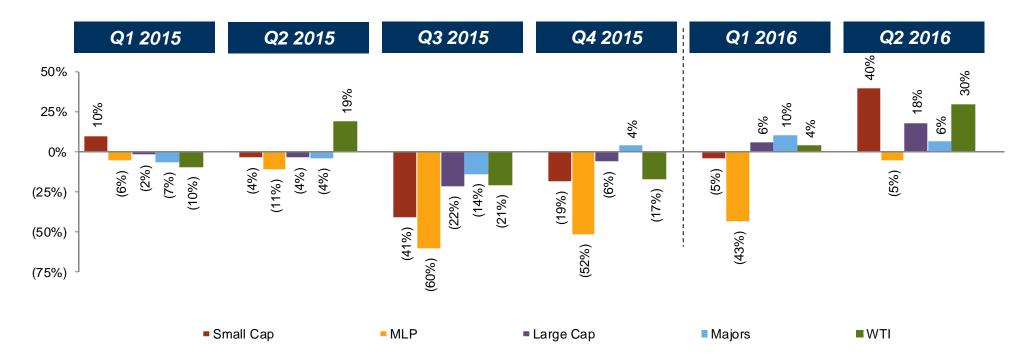
#### **RBC Commentary**

- Private Equity becoming increasingly acquisitive during the present downturn
- Prior to 2015, Private Equity nearly exclusively focused on acquiring conventional assets
- Private Equity becoming acquirers of core assets in the most sought after resource plays



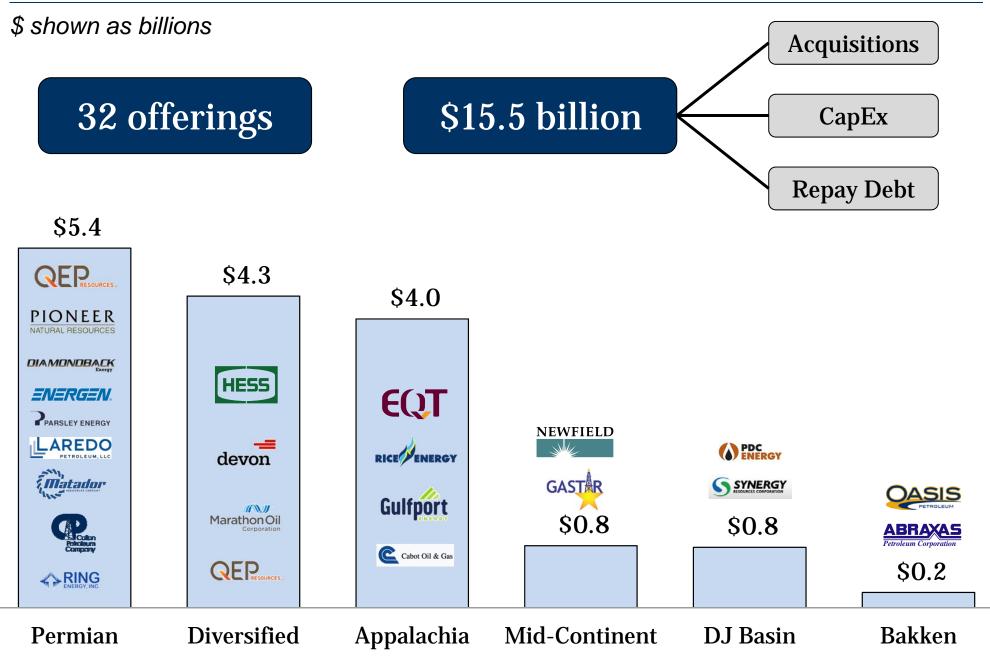
#### RBC Capital Markets Richardson Barr

### Publics Now On The Way Back



Market Value Gain / (Loss) YTD						
	Total	%				
Majors	\$126.2 B	5%				
Large Caps	\$84.1 B	17%				
Small Caps	\$7.9 B	36%				
MLPs	(\$0.8 B)	(9%)				
E&P Universe	\$217 Billion					

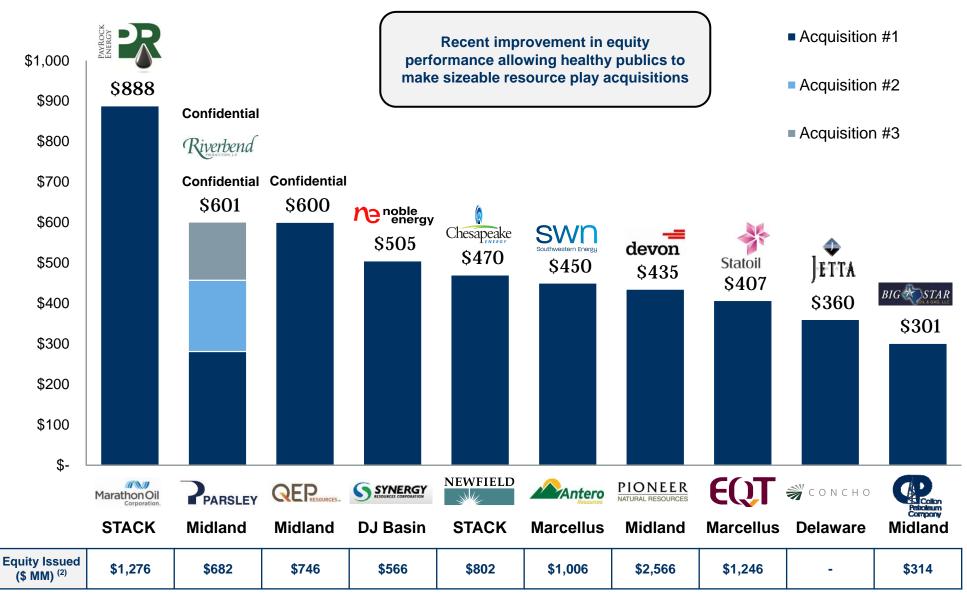
# Equity Markets Continue To Be Open For E&Ps...



Source: Dealogic and Public filings.

# ...As A Result, Publics Focused on Strategic Core Acquisitions

#### Overview of Public Acquisitions YTD (\$ MM) <sup>(1)</sup>



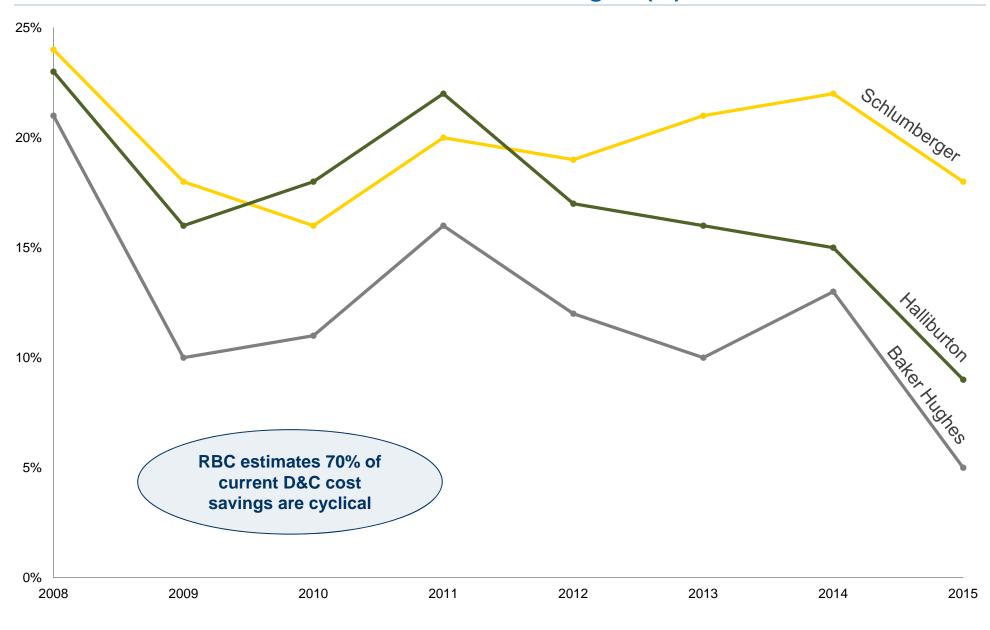
(1) Includes onshore U.S. asset transactions greater than \$100 million since 01/01/16 on which a public company was the buyer; logos above bar chart represent seller(s), logos below the bar chart represent buyer.

(2) Represents equity issued during 2016YTD.

Source: Public filings.

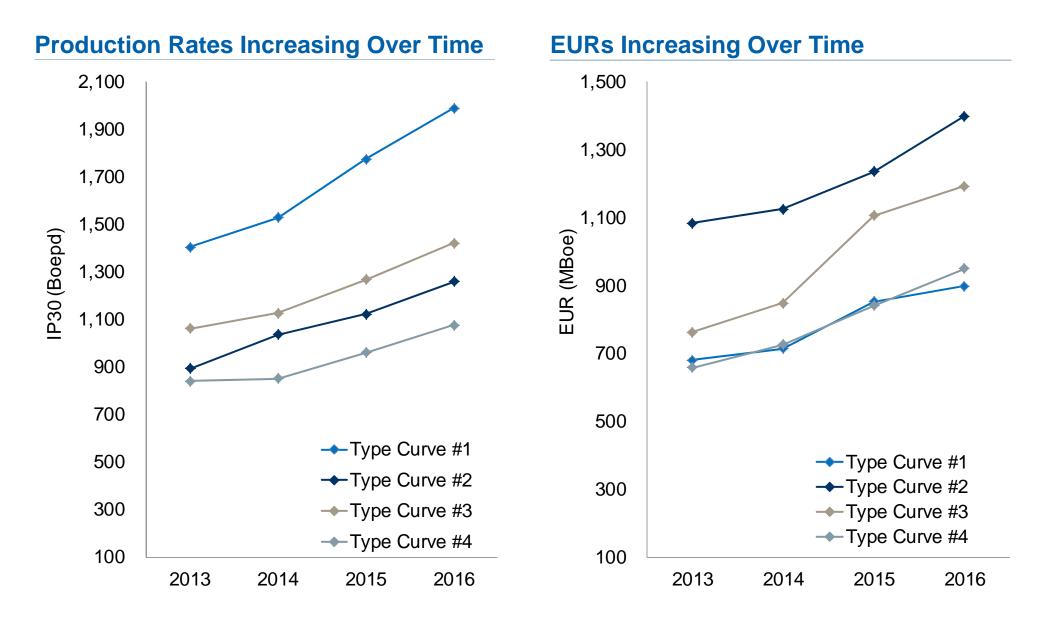
### Service Costs Have Decreased Dramatically...

Service Costs Have Come Down – OFS Global Margins (%)

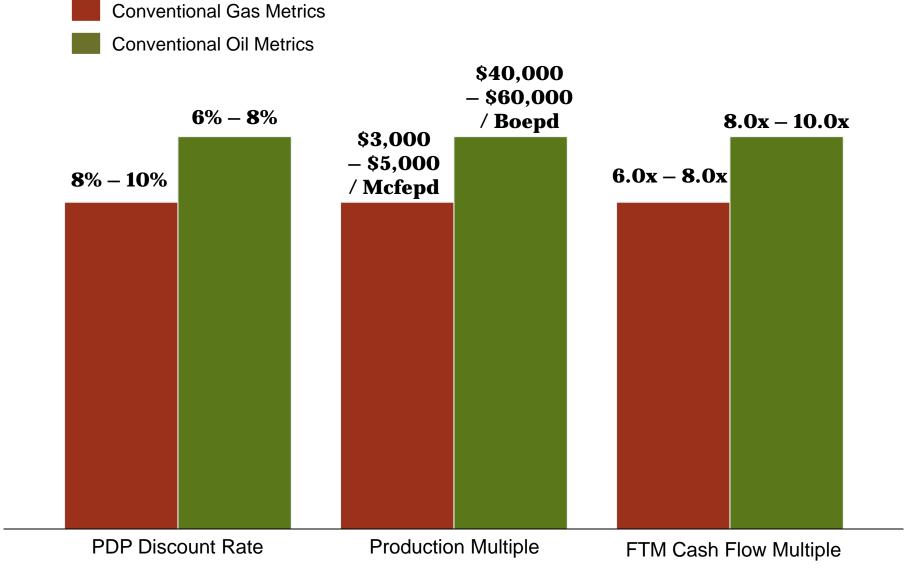


Source: Schlumberger February 2016 Investor Presentation.

### ...And Companies Have Become More Efficient



### Conventional Valuations Supported By Private Equity Demand



### It's All About The Benches!

Midland Basin	Delaware Basin	SCOOP / STACK Eagle Ford		DJ Basin	Bakken	
Formation	Formation	Formation	Formation	Formation	Formation	
Yates	Rustler	Osw ego	Escondido	Pierre	Kibbey	
Seven Rivers	Salado	Atoka	Olmos	Sussex	Charles	
Queen	Bell Canyon	Morrow	San Miguel	Shannon	Mission Canyon	
Grayburg	Cherry Canyon	Chester	Anacacho	Pierre	Lodgepole Limestone	
San Andres	Brushy Canyon	Goddard (Springer)	Austin Chalk	Niobrara A	Low er Virden	
Glorieta	Victoria Park	Upper Meramec	Upper Eagle Ford	Niobrara B	Upper Bakken Shale	
Clearfork	Avalon	Low er Meramec	Low er Eagle Ford	Niobrara C	Middle Bakken	
Upper Spraberry	1st Bone Spring	Osage	Buda	Fort Hayes Limestone	Low er Bakken	
Middle Spraberry	2nd Bone Spring	Kinderhook	Del Rio	Codell	Proghorn	
Jo Mill	3rd Bone Spring	Woodford	Georgetow n	Carlile	Upper Three Forks	
Low er Spraberry Shale	Upper Wolfcamp	Hunton	Edw ards	Greenhorn	Low er Three Forks	
Dean	Middle Wolfcamp	Sylvan	Glen Rose	Graneros	Birdbear	
Wolfcamp A	Low er Wolfcamp	Viola	Rodessa	J Sand	Duperow	
Wolfcamp B	Upper Pennsylvannian	Simpson	Pearsall	Skull Creek	Souris River	
Wolfcamp C	Strawn	Arbuckle	Sligo	Dakota Sand	Daw son Bay	
Wolfcamp D / Cline	Atoka		Hosston		-	

Benches Current Development	5	6	4	3	2	2
Benches Prospective	4+	3+	3+	3	3	2

### How Does That Translate Into Core Acreage Values?



## Net Asset Value Is The Driver

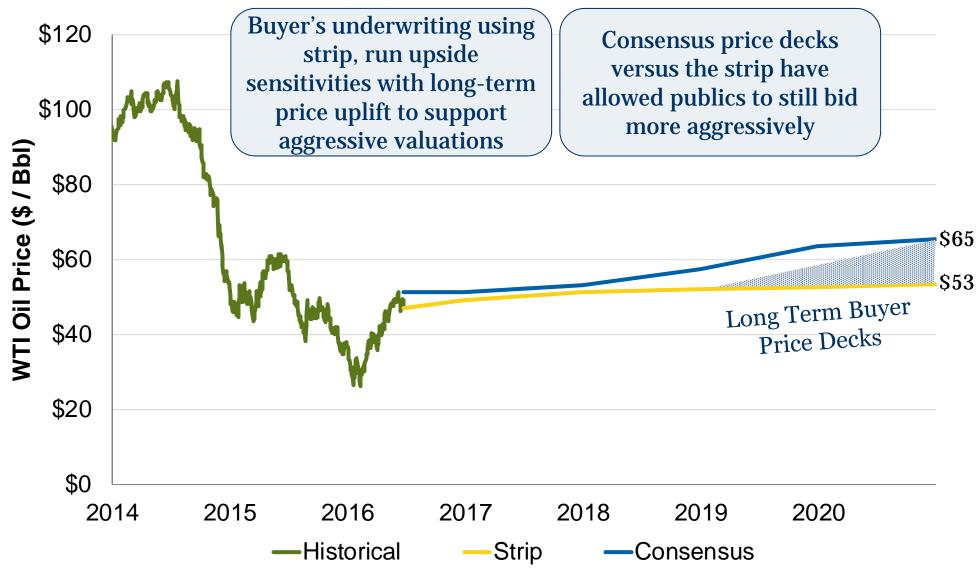
#### Northern Midland Basin Example NAV

#### 2016 NAV Summary

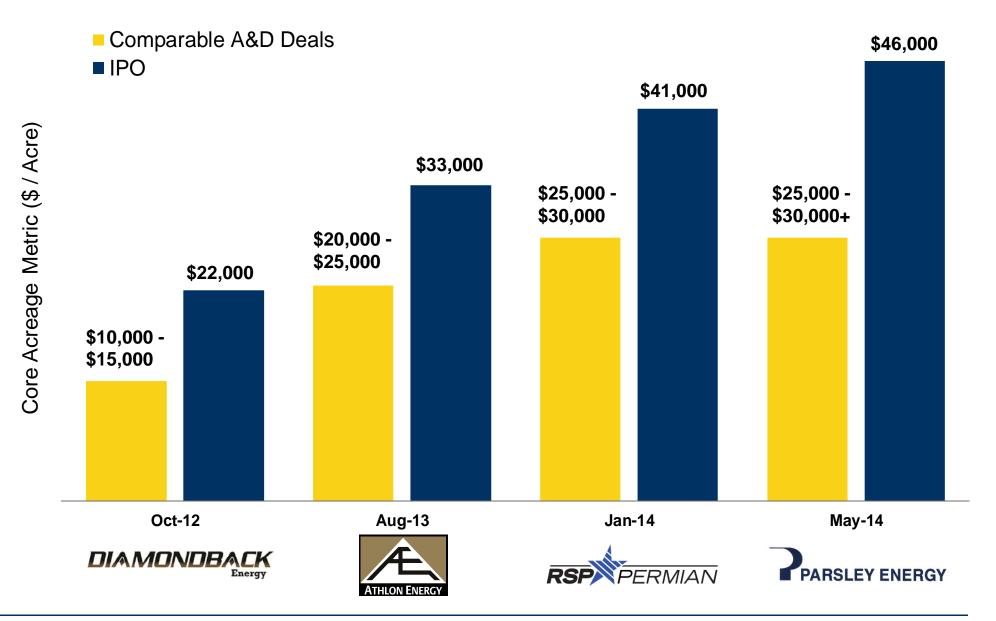
Category	Locations	Implied Valuation at Various Discount Rates							
Calegory	per DSU	PV <sub>8</sub>	<b>PV</b> <sub>10</sub>	<b>PV</b> <sub>12</sub>	<b>PV</b> <sub>15</sub>	PV <sub>20</sub>	<b>PV</b> <sub>25</sub>	<b>PV</b> <sub>30</sub>	<b>PV</b> <sub>35</sub>
PDP	-	$\checkmark$	$\checkmark$						
PDNP	-			$\checkmark$	$\checkmark$	)			
Wolfcamp B Locations	8				$\checkmark$	$\checkmark$	$\checkmark$		
Lower Spraberry Locations	10				$\checkmark$	$\checkmark$	$\checkmark$		
Wolfcamp A Locations	8					$\checkmark$	$\checkmark$	$\checkmark$	)
Middle Spraberry Locations	8						$\checkmark$	$\checkmark$	$\checkmark$
Total	34								
Jo Mill	???								
Wolfcamp D / Cline	???								
Upper / Lower Wolfcamp B	???								

# How Are Oil Prices Affecting Deal Making?

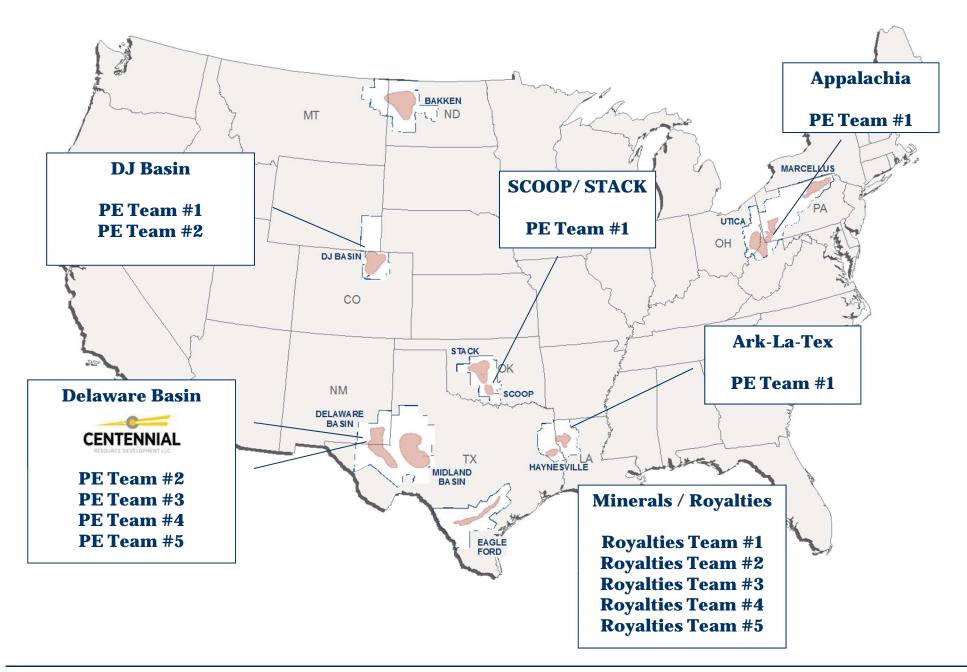




### Attractive Arbitrage In IPO Market vs A&D In Midland Basin



### Numerous IPO Candidates Over Next ~12 Months



# What To Expect During 2H 2016



6 Oil price stability (fingers crossed!!!)

### Select RBC Richardson Barr Transactions

#### \$500+ Million



#### \$100 - \$500 Million



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