# **IPAA Leaders in Industry Luncheon**

"Trees Don't Grow to the Sky"
U.S. Deal Flow in the Current Oil Price Environment

January 7, 2015

William A. Marko
Managing Director
Jefferies LLC

#### **Jefferies Energy Group Has a Leading Global Market Share**

- In last 6 years, completed 230 transactions for more than \$325 Billion
- Our practice is the largest dedicated to oil and gas by any Bank in the world
  - Focus on upstream, midstream and service

Energy

- 35 technical professionals, we go deeper technically than anyone

August 2014



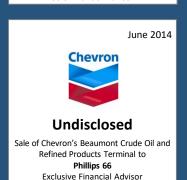


Committee of KMP and KMR











Sole Financial Advisor







#### Running at the Redline Now a Thing of the Past

- In September 2014 I discussed the fact that industry was running at full speed
  - Rig count plateauing about 1,900
  - Oil price at ± \$90/Bbl and natural gas price at \$4.00 per MMBtu
  - Vast majority of companies running as many rigs as possible limited by people, capital, execution capability
- Many companies complaining about capital efficiency and the need to do better
  - Still challenged by execution efficiency
  - Have more acreage than they can possibly ever drill
- It felt like we were heading to a bubble
- Now the bubble has burst

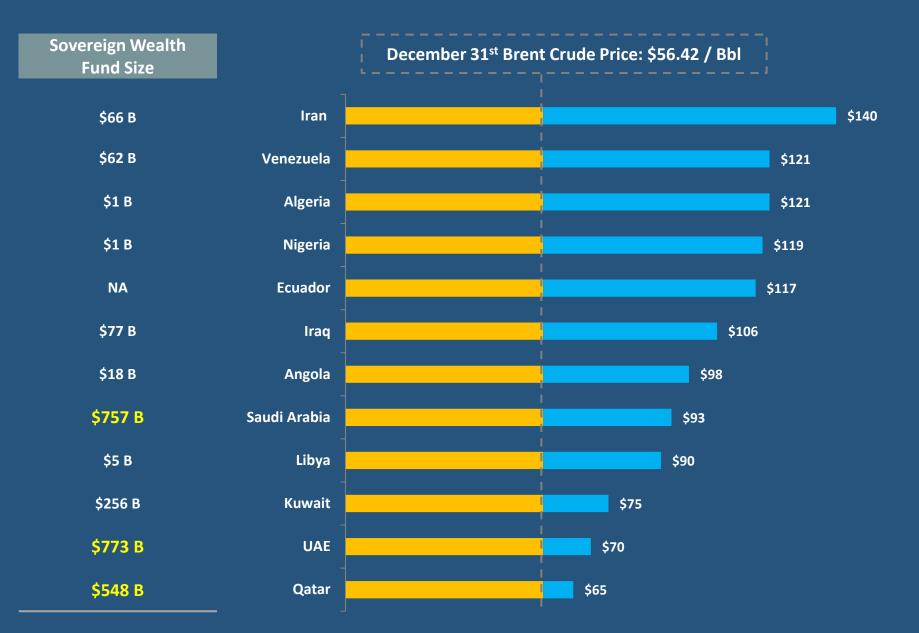
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#### Oil Price Uncertainty – Fasten Your Seatbelts, it is Going to be a Bumpy Ride

- Saudi Arabia defending its market share inside and outside of OPEC
  - It can hold its breath for a long time
  - This also hurts Russia, Venezuela, Iran, which is not a bad thing
- We are now participants in a grand experiment to see how much U.S. production changes based on the level at which pricing stabilizes
  - Will depend upon how quickly companies live within cash flow
  - Will also depend upon how and where rigs are cut and how long it takes for production to be impacted
- Prepare to live in \$60-70/Bbl oil in the near term
- Hopeful long term is \$70-80/Bbl oil
- Absent any disruptions in Middle East or wild swings in Chinese or other demand

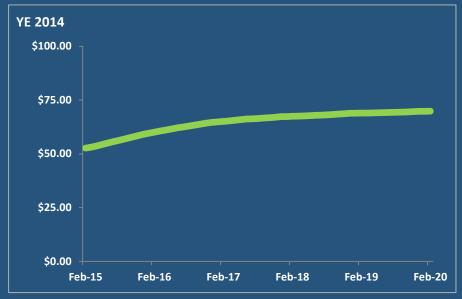
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### **Estimated Oil Price Needed to Balance Budgets**



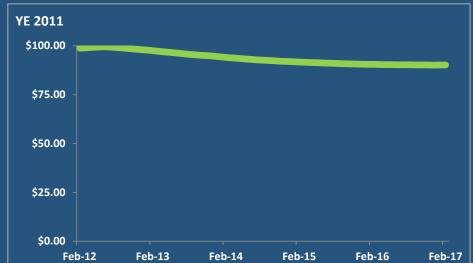


# Falling Oil Price Should Not Have Been a Big Surprise But the Current Size of the Fall Certainly Is









#### Natural Gas Price Weakness – The One-Two Punch

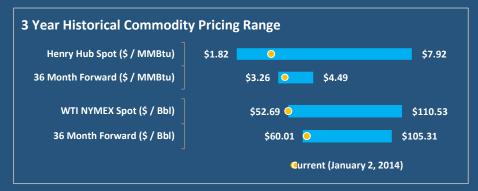
- Natural gas is not necessarily the safe port in the storm
- Price has broken through \$3.00 per MMBtu
- We were fortunate last year with a very cold winter and record high storage draws
- Still a great deal of potential supply
  - New wells in Utica dry gas
  - Potential from SCOOP, Haynesville, more Marcellus, other areas
- Industry continues to improve efficiencies so cost of supply decreasing in the best areas
- One potential bright spot Some near term demand increases
  - Switching from coal for power generation
  - First LNG exports in 2015 with more to follow
  - Natural gas fed manufacturing starting to come online
  - Feels like we live in \$3.00 4.00 per MMBtu and hope for +\$4.00 per MMBtu in the future

#### **Energy Supply Sources**

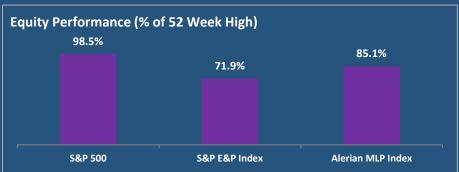
- ARC Test to be used when considering choices and the best choices adhere to all three premises
- Affordable
- Reliable
- Clean
- Good Examples
  - Natural gas switching from coal for power generation
  - Solar/wind with natural gas supplemented power generation
- Bad Examples
  - Germany pushing solar and wind while shutting in nukes, banning fracking and increasing coal use for power generation
  - Solar or wind powered automobiles

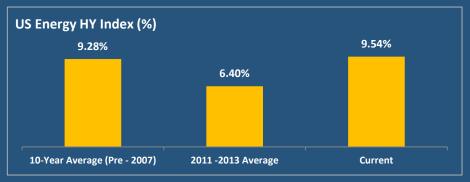
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#### **Market Update**









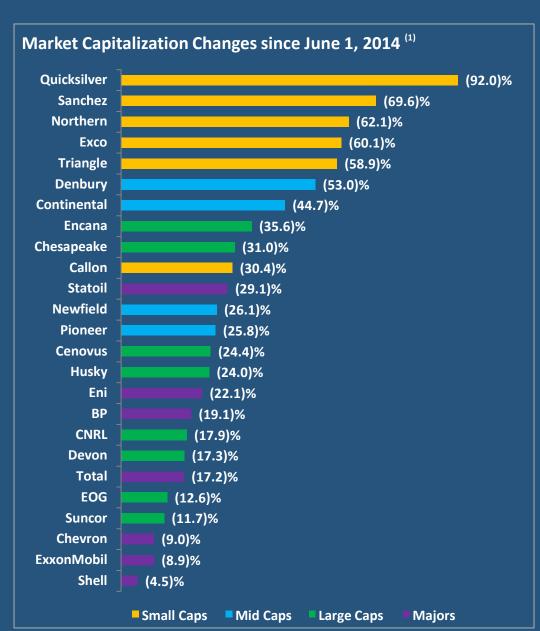
- NYMEX WTI spot trading below \$60 for the first time in over five years and the range of price expectations amongst buyers / investors has widened
  - Driven by oversupplied markets and weak demand, despite backdrop of highly elevated geopolitical tensions
- Forward expectations for gas prices remained relatively stable over the past few years
- M&A activity was in full rebound in 2014, prior to recent downturn, where recent volatility has
  resulted in a significant slow down

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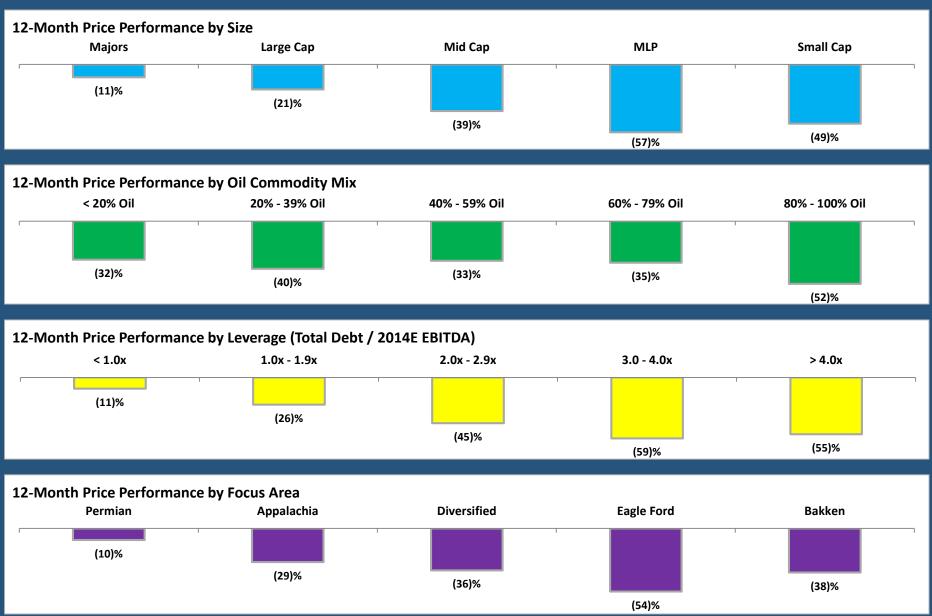
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#### Collapsing Oil Prices Have Triggered a Sell-Off in Oil and Gas Equities

- WTI has fallen by nearly 50% since June 1;
   \$327 B removed from the market value of largest 40 companies over the same period
- Industry implications anticipated behavior in the event of prolonged weakness
  - Tighter capital discipline: more project deferrals, JVs with cost carries, opex cuts
  - Exploration: budgets reduced in 2015, notably on frontier; focus shift to mature, lower-risk plays
  - Tight oil: rigs dropped in new or marginal plays, retrenchment to sweet-spots to maintain production growth
  - M&A: a flush of assets onto an opportunityrich market; potential for distressed sellers
     / countercyclical buyers



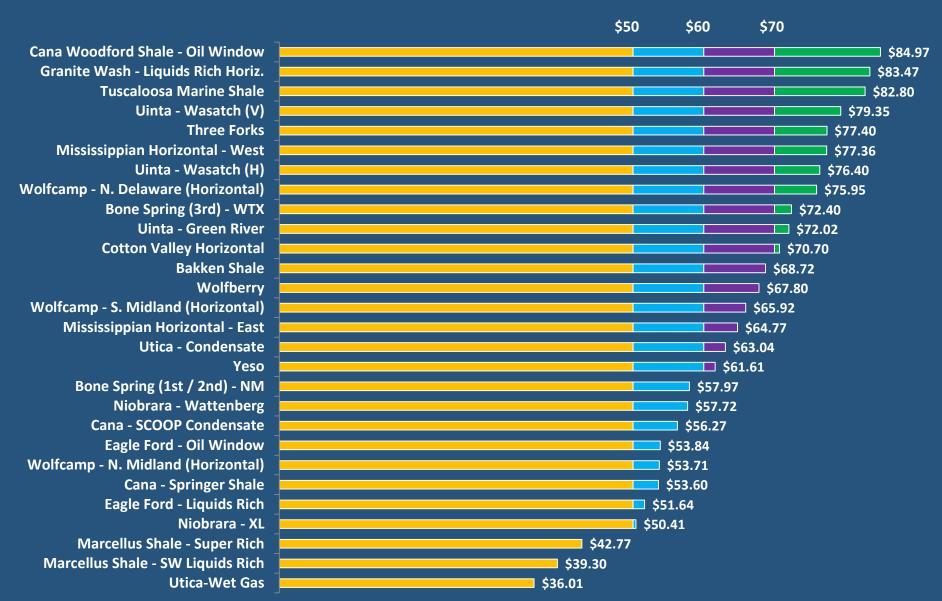
#### Recent E&P Market Performance (1)



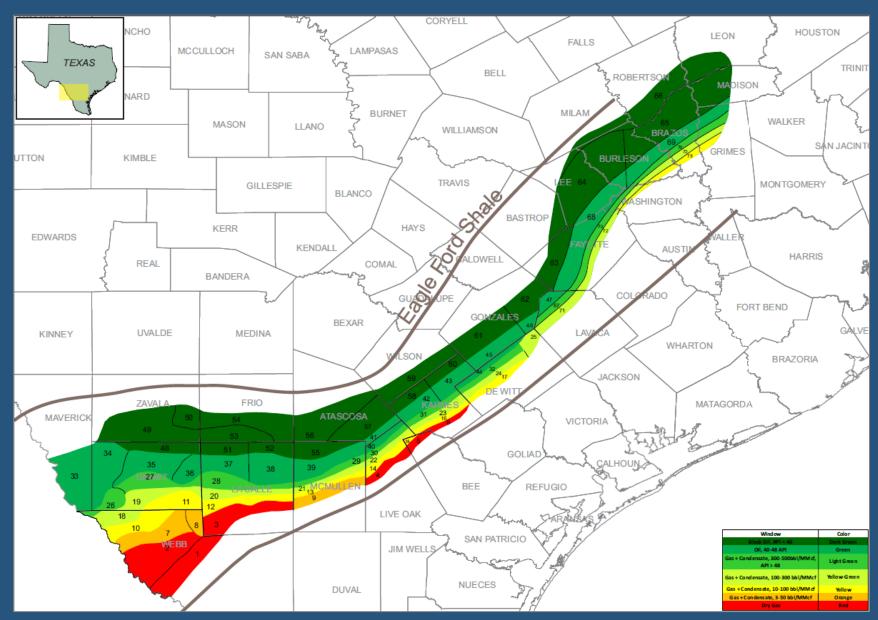
## **2015 E&P Capital Spending Outlook**

Company	2014	2015E	Change
Atlas Resource Partners	\$ 190	\$ 200	5%
Clayton Williams Energy	389	400	3%
Energy XXI	705	680	(4%)
Energen Resources	1,350	1,300	(4%)
Total SA	26,000	25,000	(4%)
PDC Energy	637	557	(13%)
ConocoPhillips	16,875	13,500	(20%)
Rosetta Resources	1,200	950	(21%)
Stone Energy	895	700	(22%)
Concho Resources	2,600	2,000	(23%)
Sanchez Energy	1,150	875	(24%)
Apache	5,440	4,000	(26%)
Halcón Resources	1,100	775	(30%)
Antero Resources	3,700	2,400	(35%)
Swift Energy	395	250	(37%)
Continental Resources	4,550	2,700	(44%)
Oasis Petroleum	1,425	800	(47%)
Breitburn Energy	375	200	(50%)
Denbury Resources	1,100	550	(50%)
Goodrich Petroleum	350	175	(50%)
LINN Energy	1,550	730	(53%)

#### WTI Oil Breakeven Price @ \$3.60 / MMBtu Natural Gas (\$ / Bbl)



#### **Eagle Ford Type Curve Map**



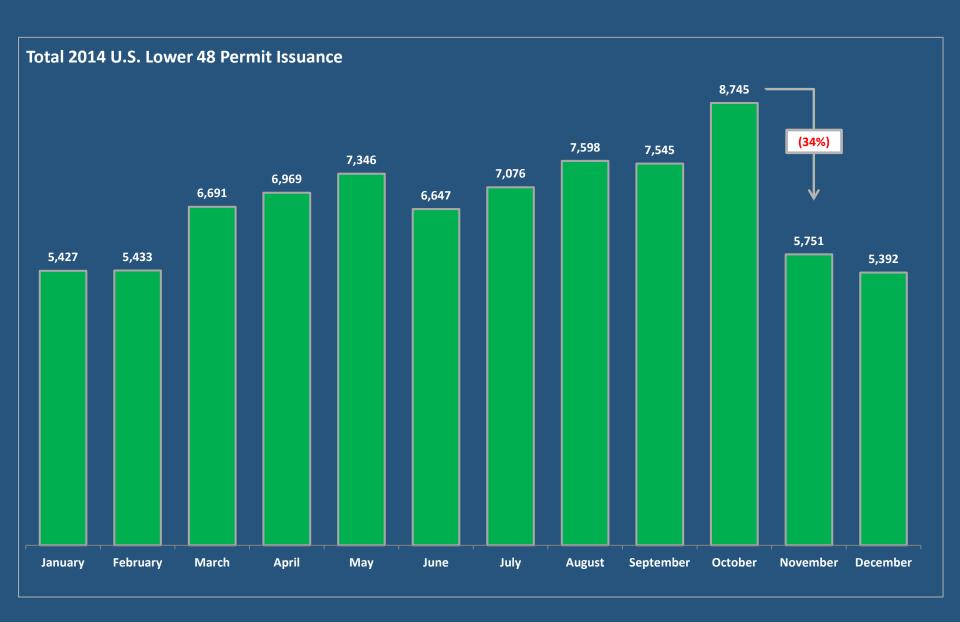
### **High Disparities in Eagle Ford Costs**

**Execution is the Paramount Consideration, Especially Today** 

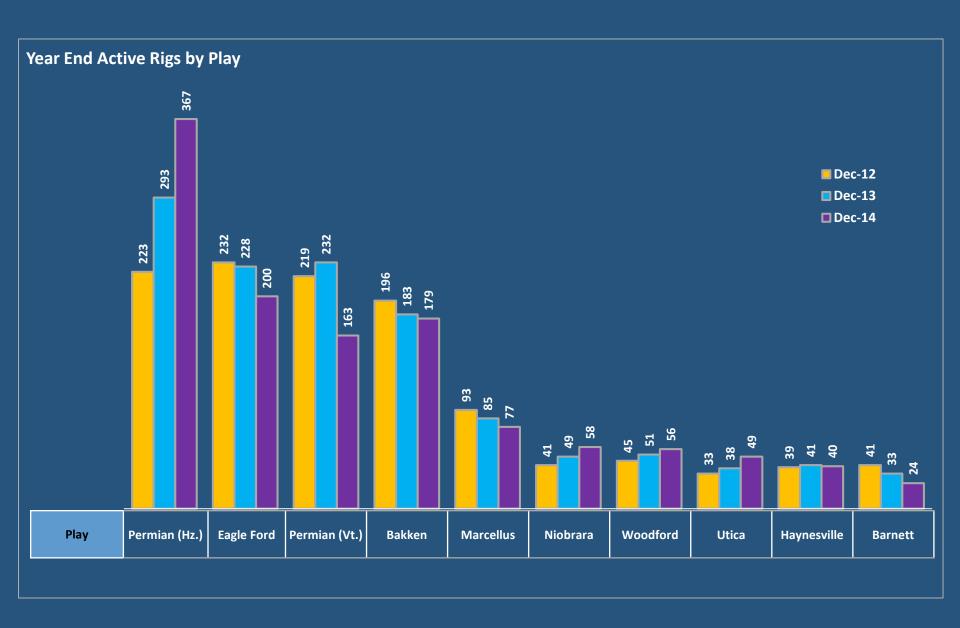


Source: Publicly available information.

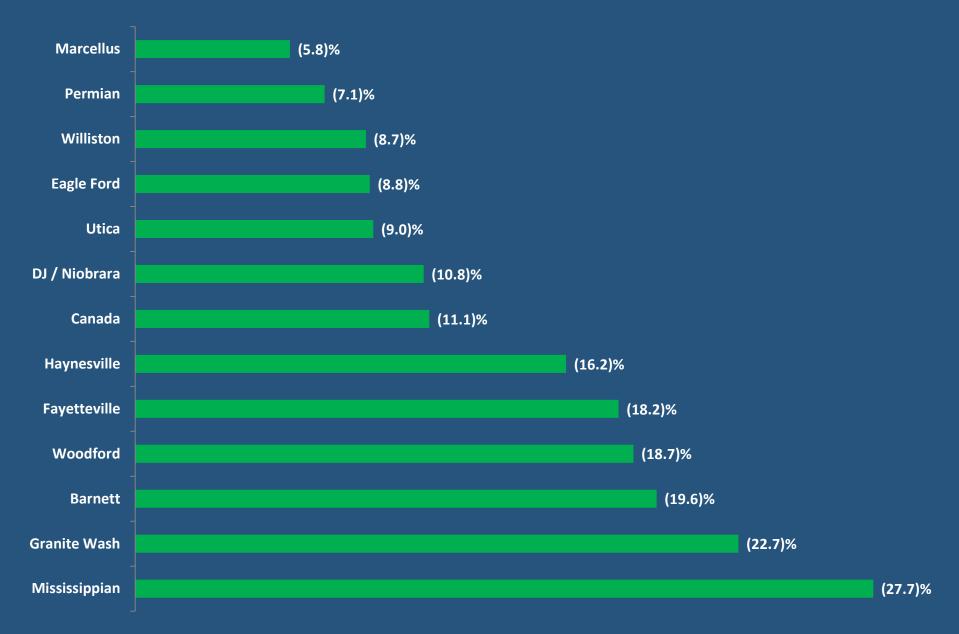
#### Most Recent Permitting Data Suggests a Structural Downward Shift in Activity



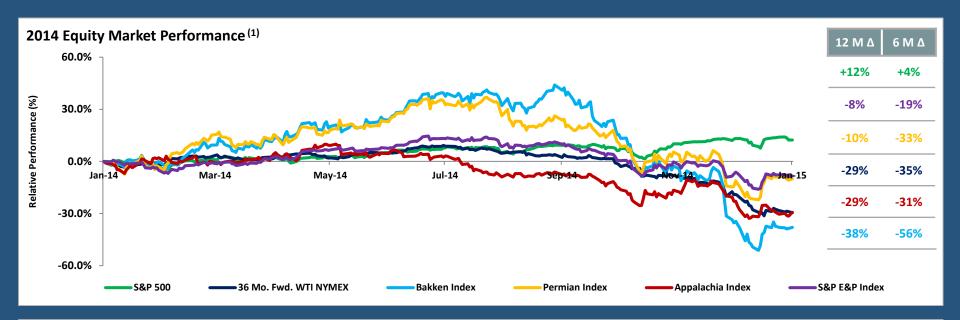
### Impact of New Oil Pricing Environment Not Fully Reflected in Current Rig Counts

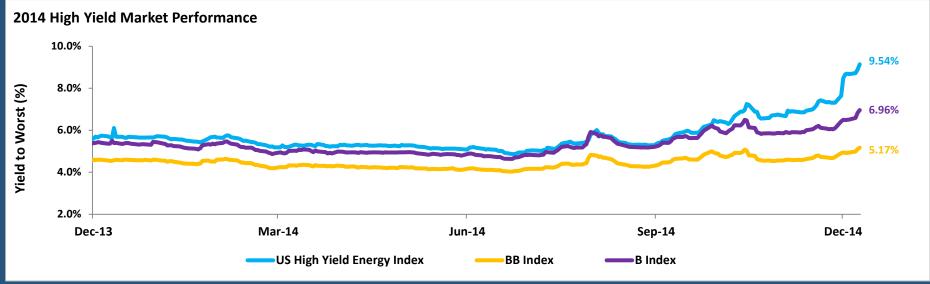


## 2015E vs. 2014 Rig Count by Basin



### 2014 E&P Capital Markets Environment



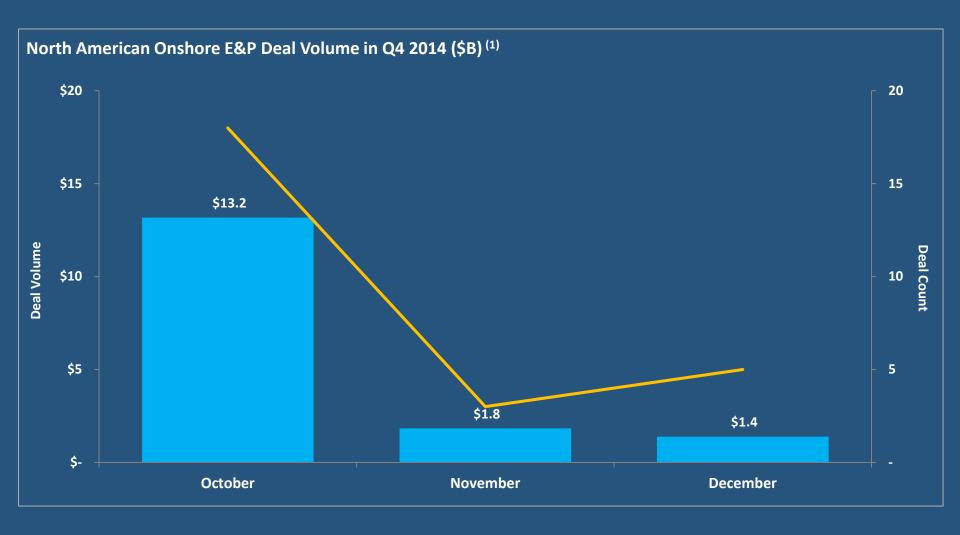


#### **E&P M&A Market Review**

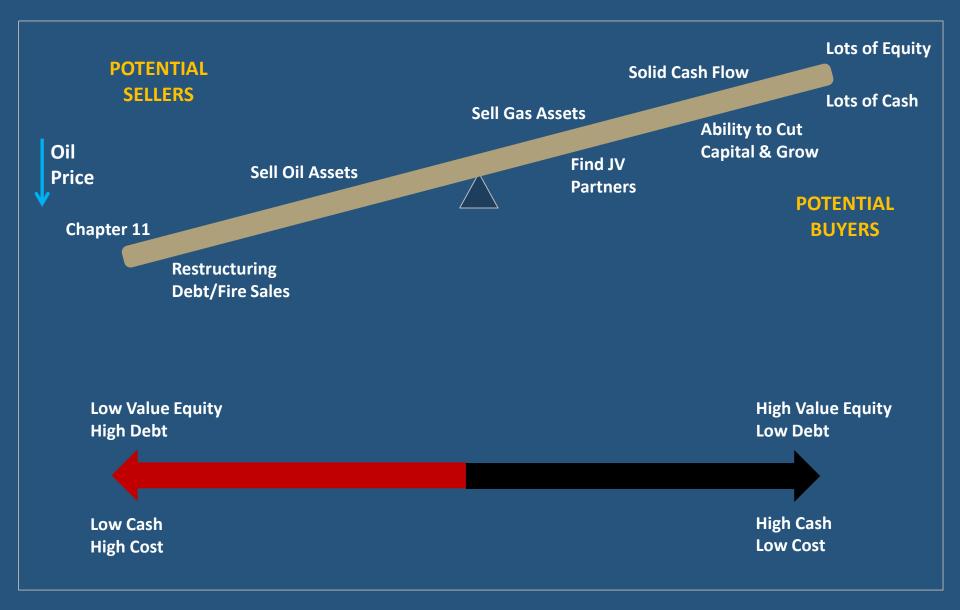


- Prior to recent downturn, M&A set for full rebound in 2014, but oil price collapse has halted activity
- M&A activity driven by portfolio reshaping
- Focus had also shifted to transactions with more production and less drilling risk
- Current M&A market "frozen" by volatility in commodity prices and cost of capital
- Buyers less affected by current weakness likely to take advantage of "buyers" market

### **E&P M&A Market Review**



## **Deal Flow Hunters and Prey**



#### What Does All This Mean for U.S. Upstream Deal Flow?

- Big private equity are geared up to hunt for opportunities
  - More than \$50 B in equity raised
  - Combined with leverage this provides more than \$100 B in purchasing power
- Could be an opportune time for the majors for mergers or major acquisitions
  - Generally have lots of cash
  - Historically have completed mergers in low price environments
  - They are wrestling with execution of what they already own, and they will focus on costs
- Most companies will need to live within available cash flows
  - Large capital program reductions
  - Pressure on how to manage big portfolios
- Internationals renewing interest in North America
  - Seeking acquisitions that come with people (corporate or asset)
  - Some still interested in JVs with top tier operators
  - Many have said they are looking for "bargains"

#### What Does All This Mean for U.S. Upstream Deal Flow? (Cont'd)

- Watch for capitulation by sellers
  - Most desperate may need to sell oil properties at the bottom
  - Sellers will hold out as long as possible while considering uses of asset sale funds (service debt, reinvest capital)
  - If natural gas price does not remain too weak, could be a good time to sell natural gas assets
- Buyers will need to be very disciplined and focused in order to most effectively screen and evaluate deals
  - Know the strengths and weaknesses and areas of most competitiveness
  - Move fast in a briskly changing environment
  - Be able to sort through a seemingly endless number of opportunities to clearly identify the most attractive
- Companies should be prepared for an "open window" in M&A markets
- Private capital markets are least impacted by recent events especially longer hold periods –
   don't have to live quarter to quarter