

Welcome Back to Boom-Bust Oil Prices



Presentation to the New York Energy Forum May 16, 2017

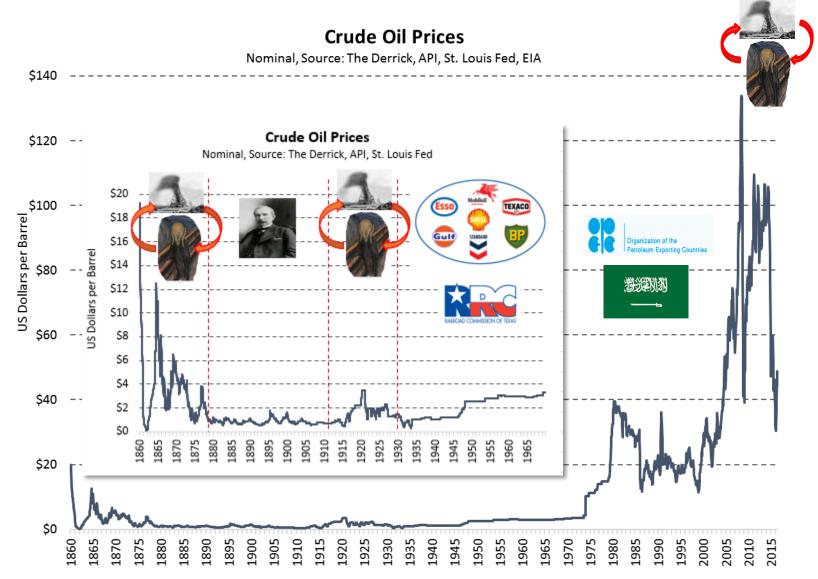
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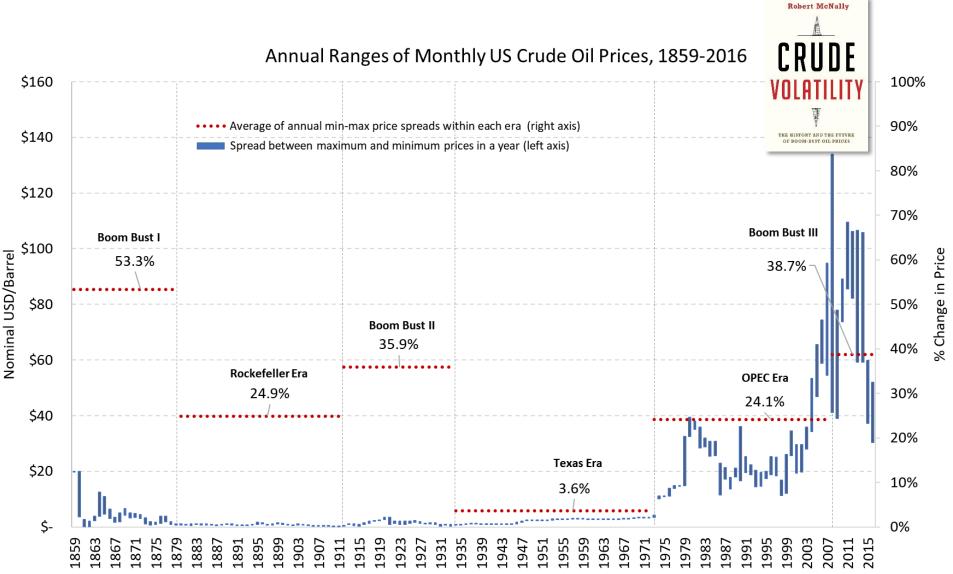
<u>Unbalanced Market + No Swing Producer = Boom and Bust Price Cycles</u>

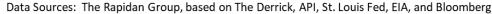
Standard Oil, Texas Railroad Commission, Seven Sisters & OPEC regulated wellhead supply to stabilize prices





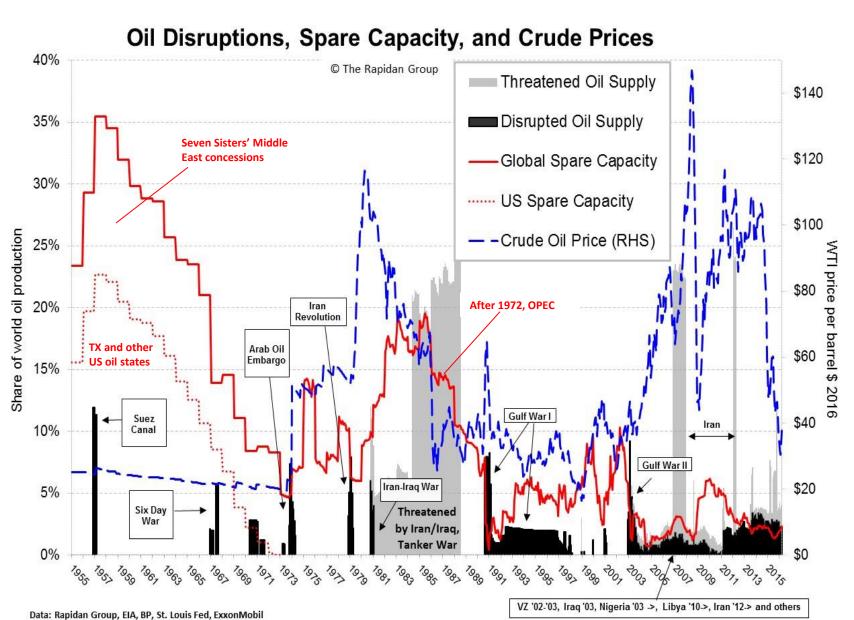
Exited OPEC Era and Returned to Boom-Bust in 2008 (not 2014)





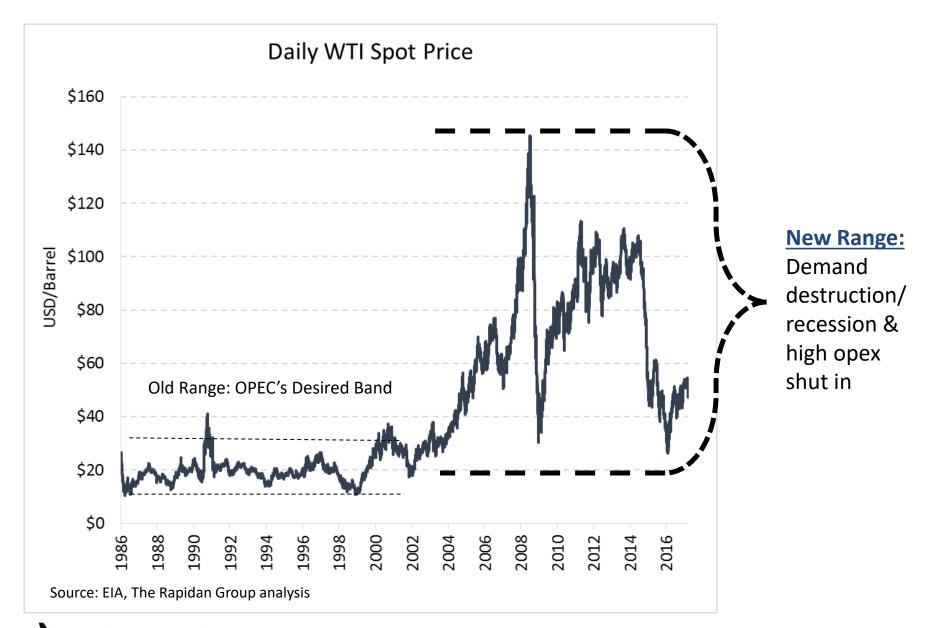


No Spare Capacity, No Peace





Like the Texas Railroad Commission, OPEC Lost Control Amidst a Boom



At Best We Have an Emergency, Ad Hoc Cartel

Emergency cartels popped up after busts since 1861

Remarks by Saudi Arabian Energy Minister Khalid al-Falih, CERAWeek, March 7, 2017:

time around, we made it clear that we will not bear the burden of "free rides," and both groups are reinforcing one another through voluntary management of their production. All of us realize that such an expanded network of producers with a larger share of global production is the only way to achieve a constructive, stable market for all. Having said this, OPEC remains an important catalyst to the stability and sustainability of the market, which remain the Organization's highest priorities and have brought its members into greater alignment than at any time in recent memory. But history has also demonstrated that intervention in response to structural shifts is largely ineffective, and I believe we've learned that lesson. That's why Saudi Arabia does not support OPEC intervening to alleviate the impacts of long-term structural imbalances, as opposed to addressing short-term aberrations such as financial crises, economic recessions, unforeseen supply disruptions, or the like. As for the current agreement, it is keeping with Saudi Arabia to a restrict seeking a collaborative framework of production management for a restrict

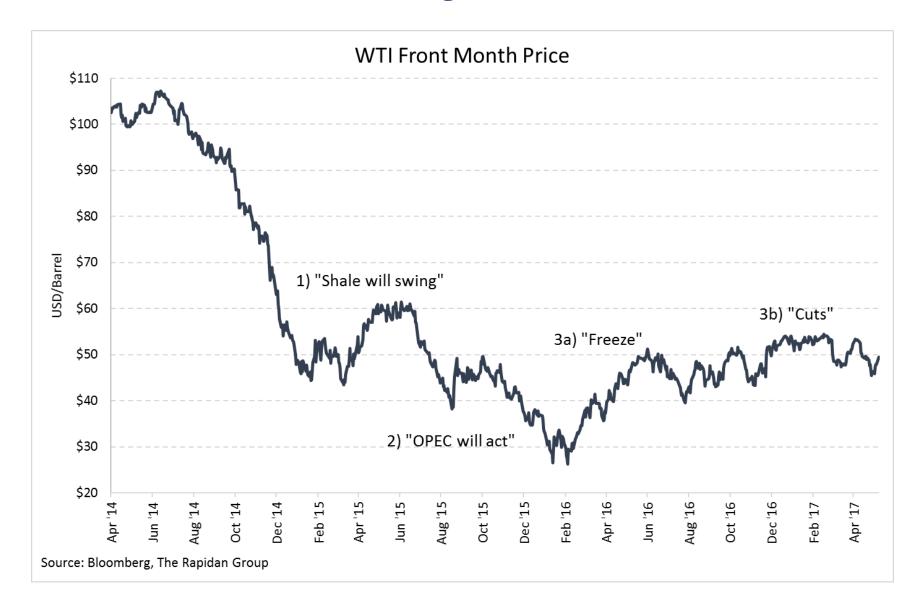
http://www.reuters.com/article/ceraweek-saudi-speech-idUSL2N1GK132

the aim of accelerating rebalancing, and then allowing the free market to v

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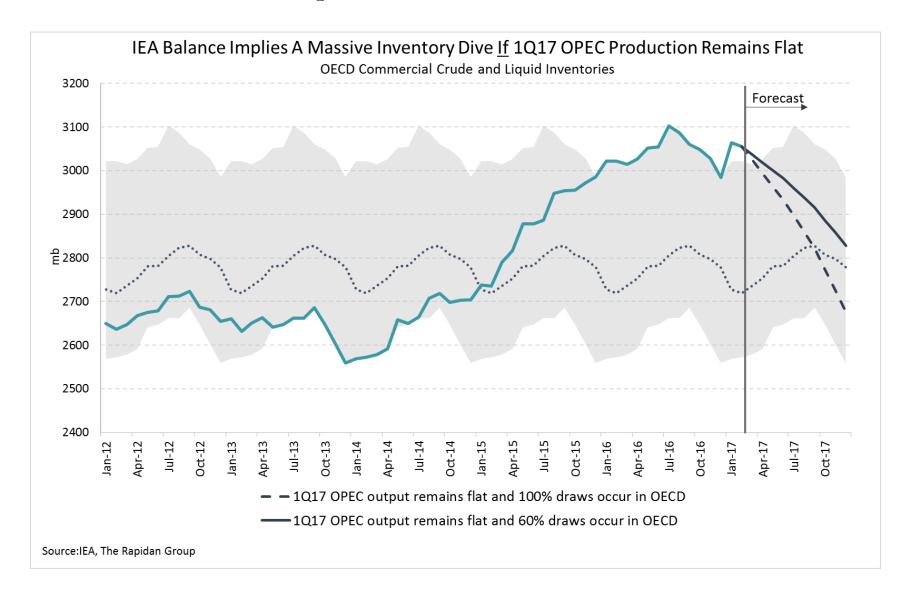


Three Rebalancing Rallies Peter Out





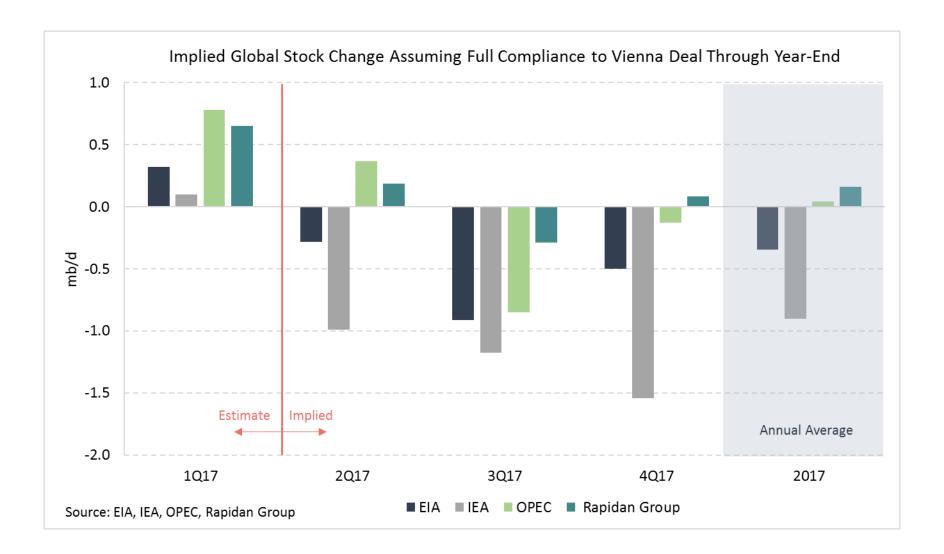
The Consensus Expects Massive 2H17 OECD Stock Draws





IEA and EIA See Big Stock Draws if Vienna Group Sticks to Deal

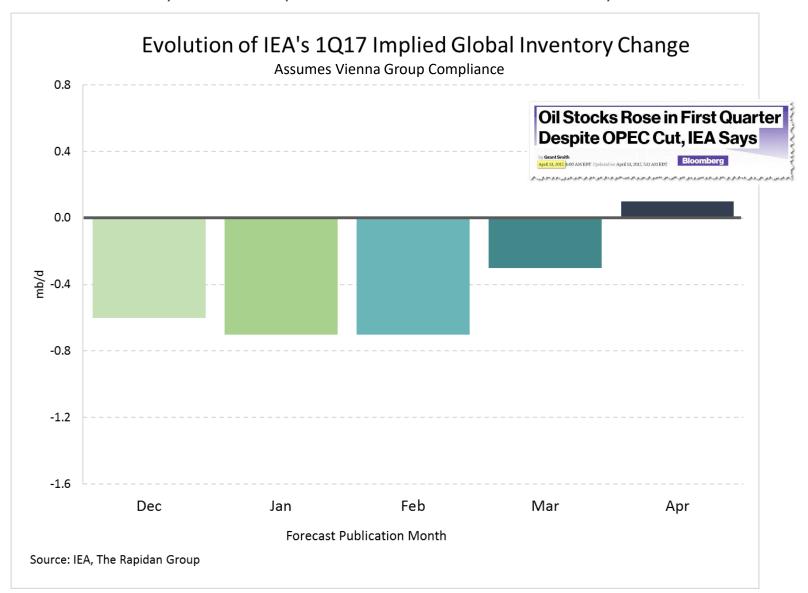
OPEC and The Rapidan Group, not so much





Instead of Drawing Heavily, 1Q17 Stocks Increased

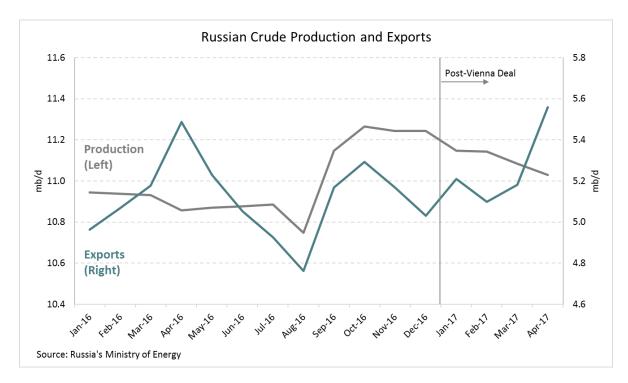
Partly due to an export tsunami OPEC unleashed late last year





Vienna Group Production Compliance Good if Uneven So Far, but Easier Options are Exhausted and Exports Still High

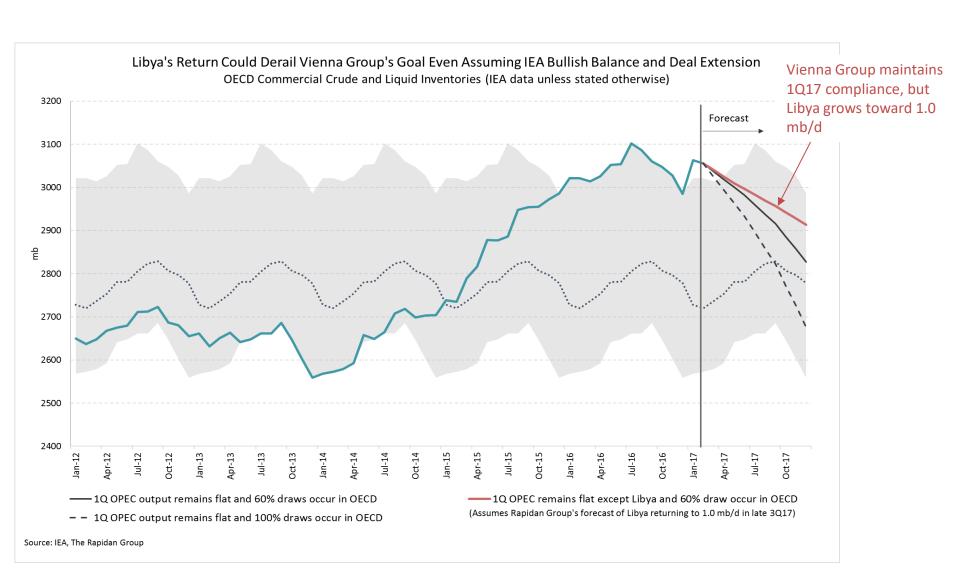
- Bring forward field maintenance
- Run down internal stocks
- Seasonal (cold weather) production declines





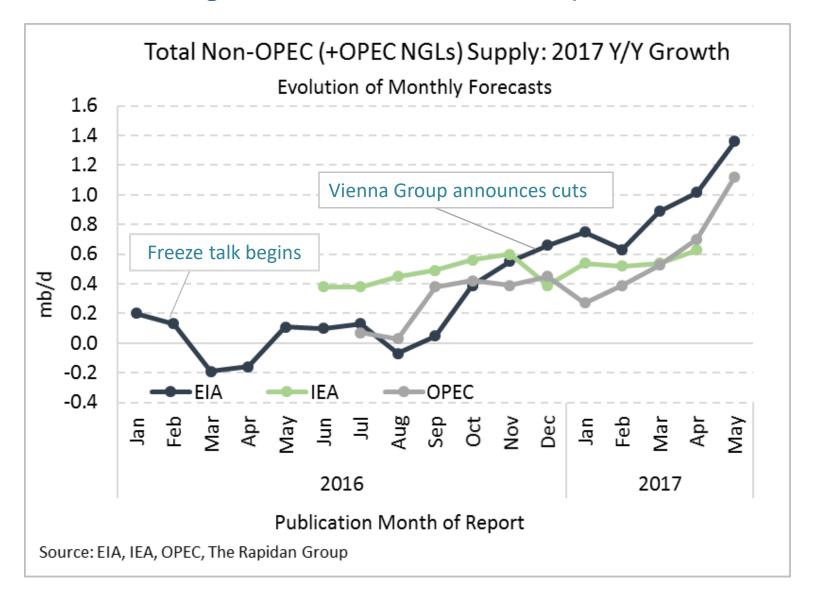


Returning (Exempted) Libyan and Nigerian Production



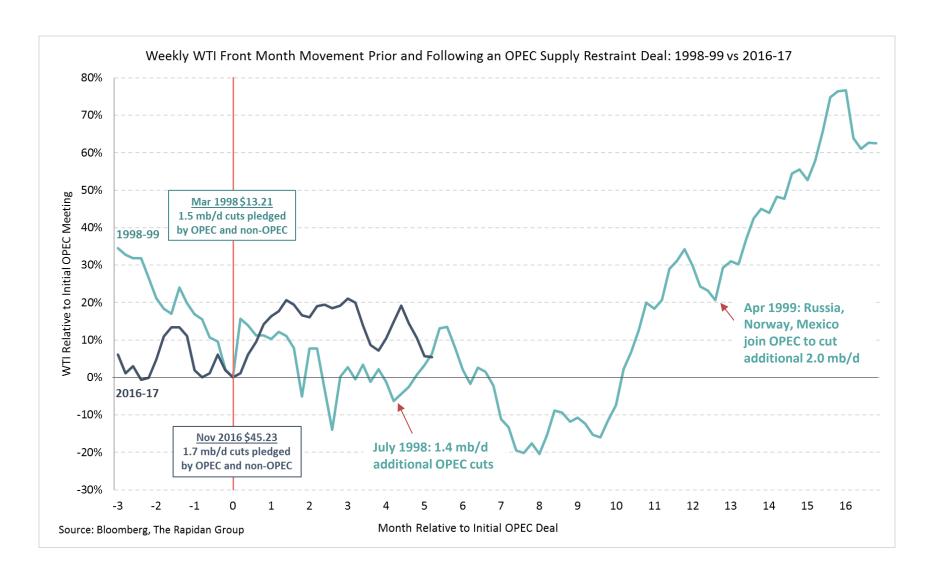


Soaring Non-OPEC Production, Mostly US Shale



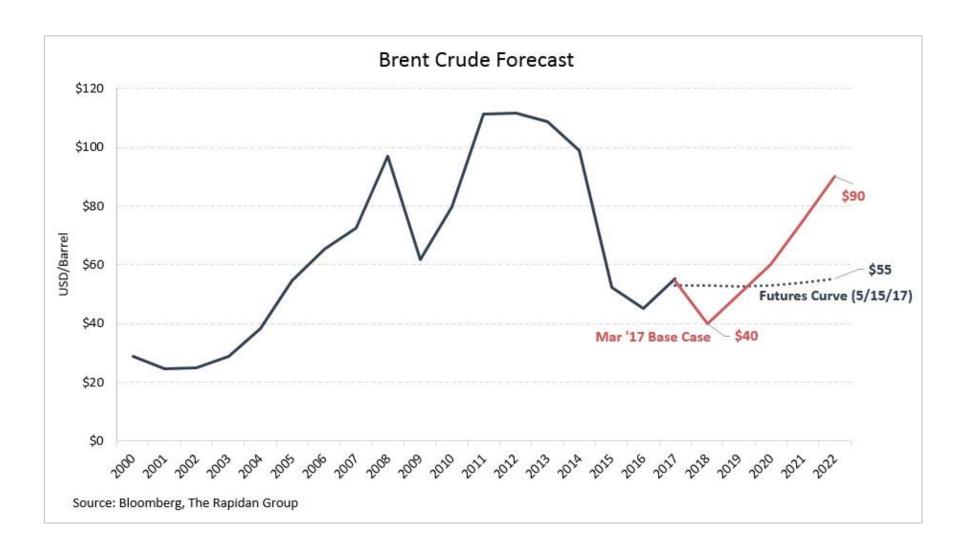


1998-1999 Took >12 Months & Two Rounds of Cuts to Induce Sustainable Rally





Oversupply Triggers Bust, but Subsequent Underinvestment and Robust Demand Spark Price Boom





<u>CONCLUSIONS</u>

"Lord Make Me Bullish, But Not Yet"

- We are ~10 years into history's third boom-bust era
- Saudi Arabia/OPEC neither talking nor acting like swing producer needed to ensure price stability when fundamentals structurally unbalanced
- Current crude rally expected on (prolonged) Vienna Group extension and seasonal, visible stock draws
- But a sustainable rally requires big stock draws in 2H17, which the consensus expects but for which skepticism is warranted
- Prolonged inventory glut likely to strain Vienna Group cohesion, trigger another down leg before boom phase starts

