

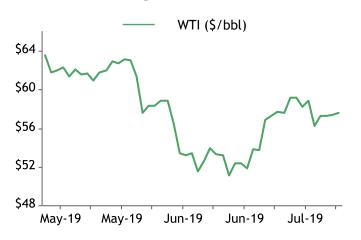
State of the E&P Market

July 10, 2019

By: Jeff Knupp

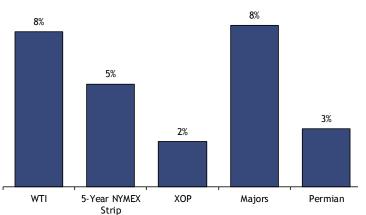
What a Difference a Month Makes

Oil Bouncing Back

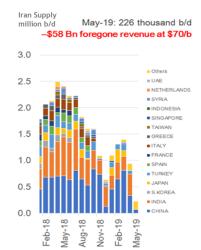


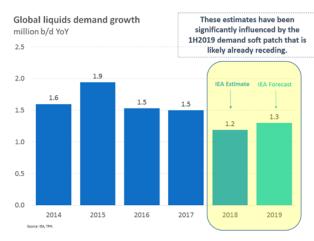
Market Recovering, too

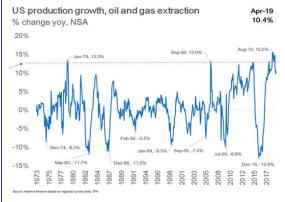
Total Return Since June 1, 2019

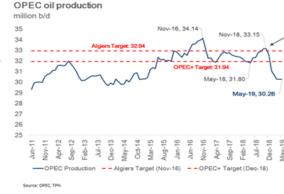


Supply/Demand Fundamentals











Apathy is at an All-Time High

(\$ in millions unless otherwise noted)

Investor Sentiment Today

- Frustrated with underperformance
- Energy not relevant in growth indices (<1%)
- The "New World" (RETURNS >> GROWTH) likely here to stay

The Optimal E&P Company

1 Scale: >\$5Bn

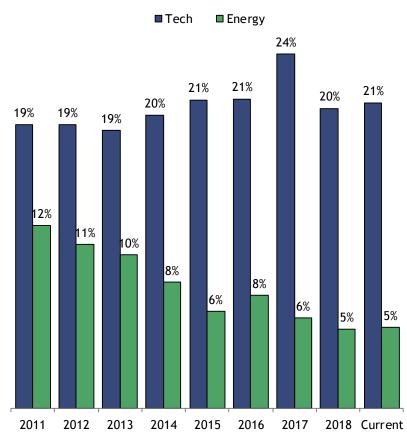
2 Slow Growth: ~10%

3 CF+: Paying Dividend

BS: <1.5x debt/EBITDA

S&P Energy Weightings

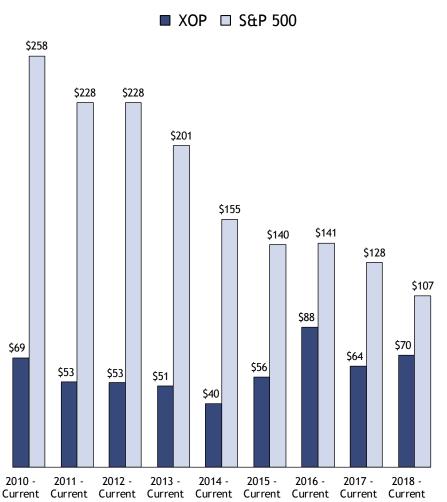
Energy Weighting in the S&P Halved in ~5 Years





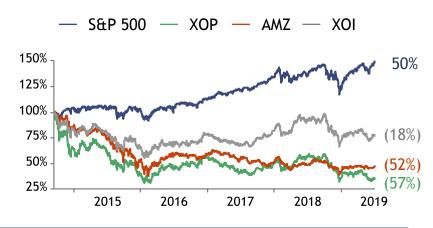
Why Are Investors So Angry?

E&P vs. S&P Current Value of \$100 Invested at T=0



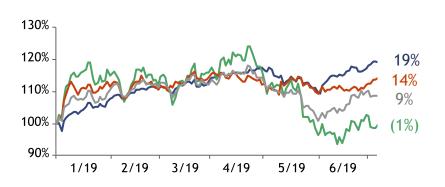
Relative Equity Performance

Indexed to September 2014



Relative Equity Performance

Indexed to January 2019





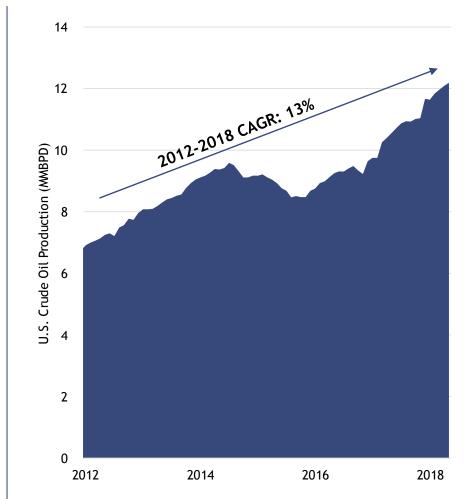
US E&P: Are We Efficient, or Just Destroying Capital?

Market Comparison⁽¹⁾

	2012	2019 ⁽²⁾
Combined EV (\$Bn)	\$517	\$526
Combined EBITDA (\$Bn)	\$120	\$102
Combined G&A (\$Bn)	\$71	\$94
US Production (MMbbl/d)	6.5	12.45
Oil Price	\$94.18	\$55.42
Rig Count ⁽³⁾	1,879	940

Upstream companies generated cumulative cash flows of (\$114Bn) from 2012-2018

US Production Growth Chart





Source: FactSet, Bloomberg.

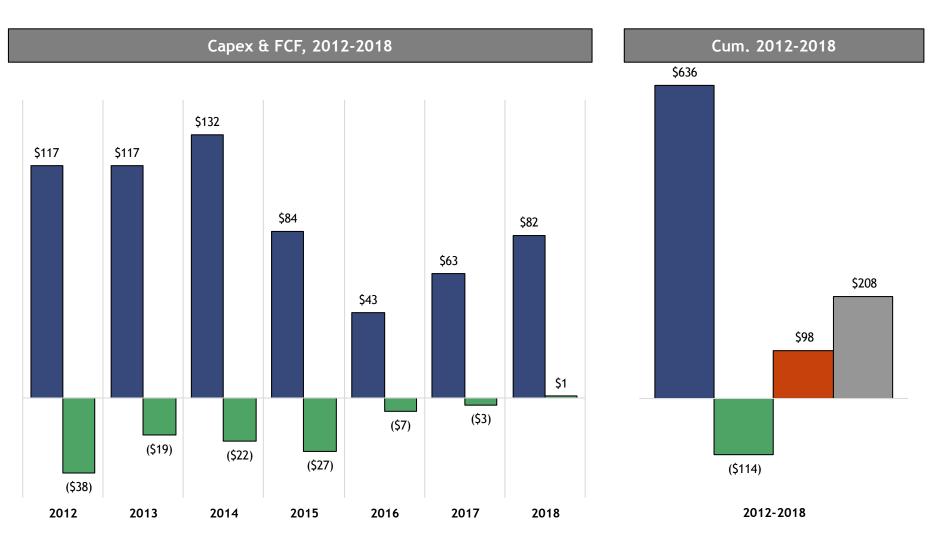
^{(1) 53} public companies: CPE, CDEV, XEC, CXO, FANG, ESTE, HK, JAG, LPI, MTDR, PE, PXD, COP, EOG, OXY, APA, CRC, CRZO, CLR, DNR, DVN, ECA, HES, MRO, MUR, NBL, PDCE, QEP, SM, WPX, CHK, CRK, GPOR, RRC, CHAP, CLR, DVN, MRO, ROAN, AR, COG, CNX, MR, EQT, SWN, NOG, OAS, WLL, EPE, MGY, PVAC, SBOW, BCEI, XOG, HPR, and SRCI.

²⁾ EIA 2019 forecast as of June 2019.

³⁾ TPH Research horizontal and vertical rigs.

Growth at Any Cost (2012-2018)

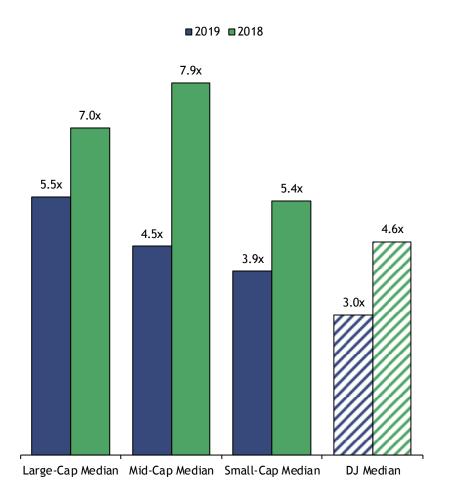
■ Capex (\$Bn) ■ FCF (\$Bn) ■ U.S. Upstream ECM (\$Bn) ■ U.S. Upstream DCM (\$Bn)



Valuations Today (vs. a Year Ago)

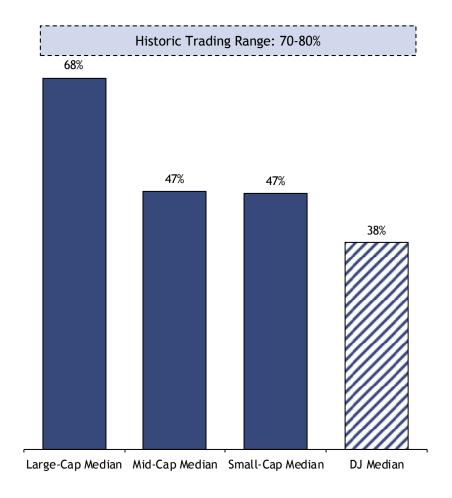
Assets Are Cheap

EV/EBITDA: June 2018 vs. June 2019



Disconnect with NAV

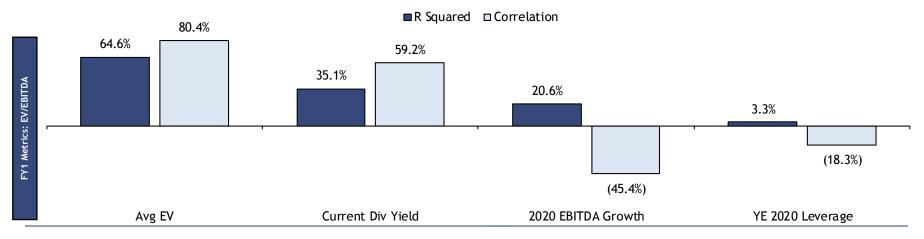
Market Cap as a % of NAV(1)



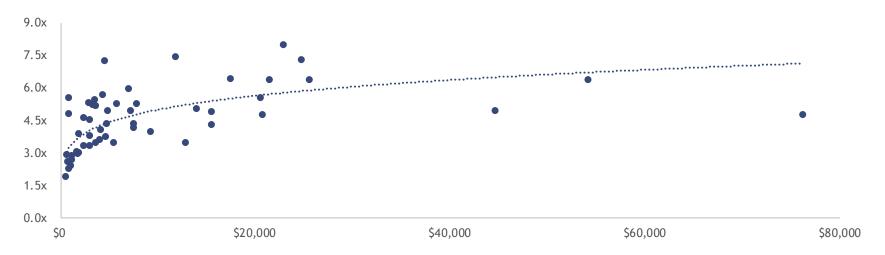
What's Driving Valuations Today

Summary of Factor Relationships with Valuation

Correlation with EV/EBITDA for SMID and Large Cap E&Ps



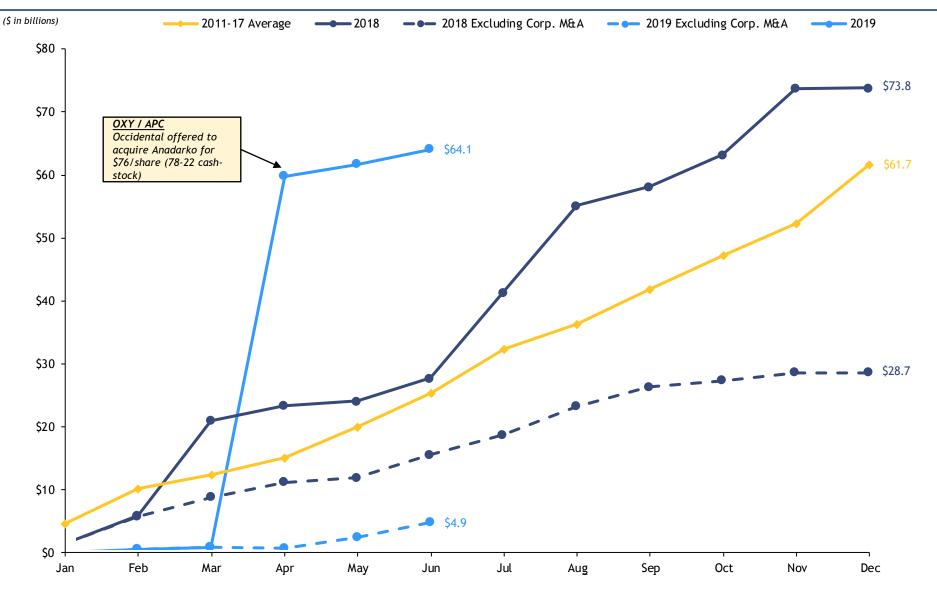
EV/EBITDA vs. EV





M&A Activity Nearing All-Time Lows

Cumulative Transaction Volume (\$Bn)

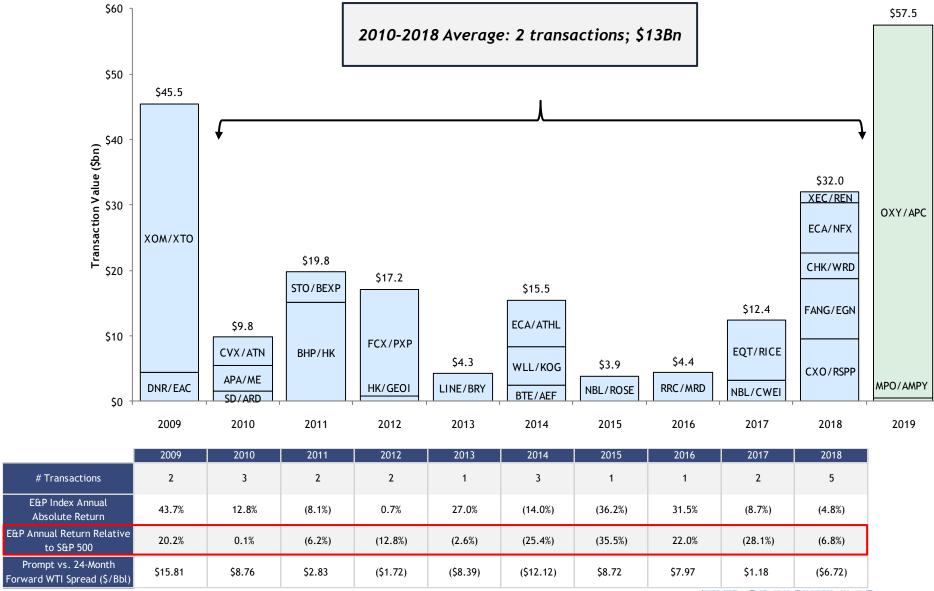


Source: IHS, Dealogic.

Note: U.S. resource transactions greater than \$50 million.

Upstream Corporate M&A Activity

Public-to-public Transactions Since 2009

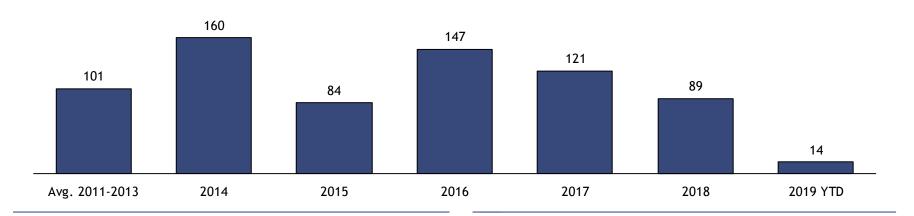


Source: IHS and Dealogic.

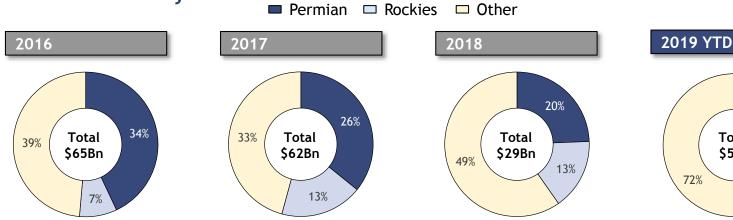
Note: Excludes transactions that announced but failed to close.

Bread & Butter A&D Grinding to a Halt

Transaction Activity by Year (# of Deals)



E&P Transactions by Basin





Total

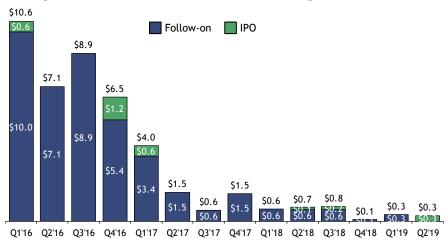
\$5Bn

22%

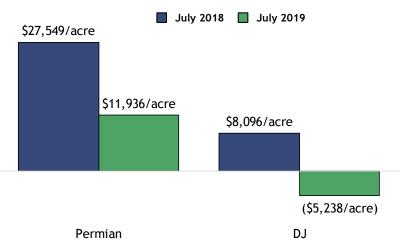
7%

Why is the Market in Gridlock?

Capital Markets have Dried Up





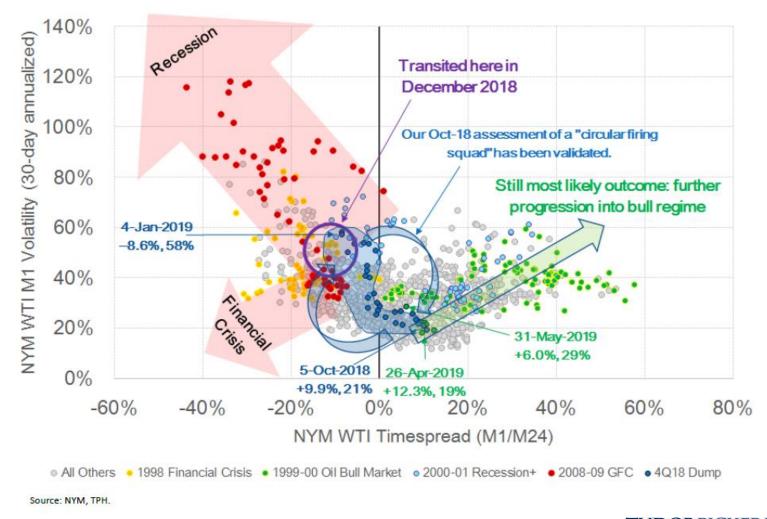


- Buyer's limited ability to fund
- Market not valuing long-term inventory
- Cash is precious
- Sellers not distressed yet (like 2015-16)
- Bid-Ask spreads still significant
- Corporate M&A makes sense...but it's hard

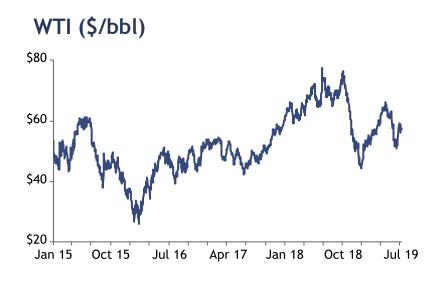
The Bull Case for Oil...It's Simple

NYM crude oil vol and structure in five environments

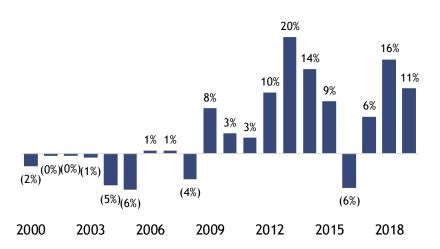
Weekly averages: Feb. 2, 1996 through May 31, 2019



The Bull Case for Oil...Simplified



Year Over Year U.S. Oil Production



Takeaways

- Remember, this is a CYCLICAL business
- It's all about **VOLATILITY**
- Global Demand: growth rate slowing; but not contracting
- U.S. Supply: nearly impossible to sustain recent growth



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