

Unconventional Revolution and New Oil Price Environment

Rueil-Malmaison, France March 16th, 2015

This document, its content and any know-how, trade secret, database, business method, invention, copyrighted work or other intellectual property in it are the sole and exclusive property of Schlumberger Business Consulting or its licensors, unless otherwise agreed in the applicable agreement between you and Schlumberger Business Consulting. This document and its content have been developed and provided to you as part of the services delivered to you pursuant to the applicable agreement with Schlumberger Business Consulting. You should not use this document or its content for any purpose other than that for which Schlumberger Business Consulting has developed this document. This document contains confidential and proprietary information of Schlumberger Business Consulting. As such, no part of this document may be disclosed, disseminated, published, quoted, modified or reproduced outside your organization without the prior written approval from Schlumberger Business Consulting. Unless provided for otherwise in your agreement, Schlumberger Business Consulting does not provide any express or implied warranty as to any information, assertion or statement in this document or in connection with your use of the services or this document. Any reliance by you upon the content of this document is at your sole risk and expense.

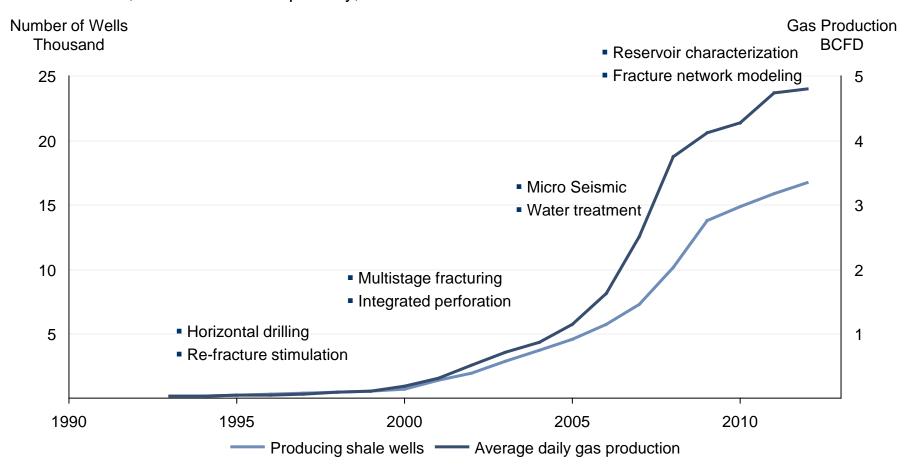
If you are not the intended recipient of this document, or an employee or agent responsible for delivering it to the intended recipient, you are hereby notified that any disclosure, copying, dissemination, distribution, modification or other use of this document or any of the information contained therein is strictly prohibited and unlawful. If you have received this document by error, please destroy it without delay.



US unconventional revolution has been driven by technology and price

EVOLUTION OF THE US SHALE GAS INDUSTRY: BARNET SHALE EXAMPLE

Thousand of Wells, Billion Cubic Feet per Day, 1990-2012

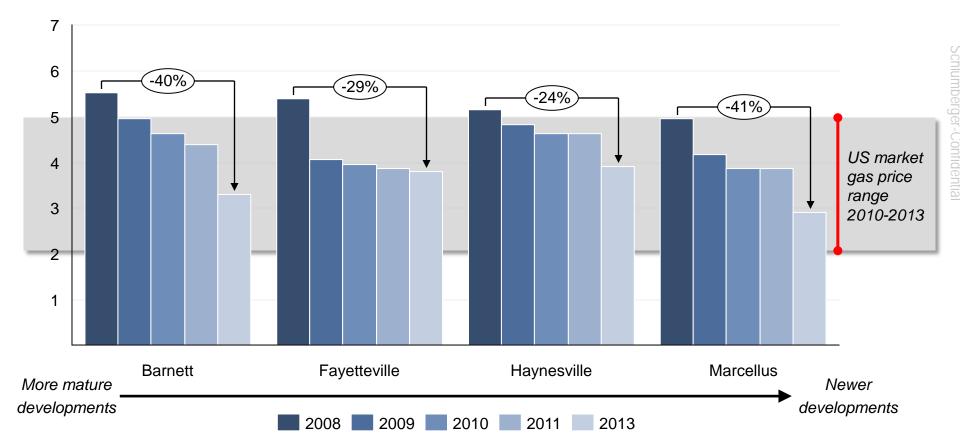


North America operators significantly improved their breakeven economics

BREAK EVEN PRICES IN MAJOR US SHALE GAS PLAYS

USD per Million Cubic Feet, 2008-2013

Breakeven price USD/MMCF

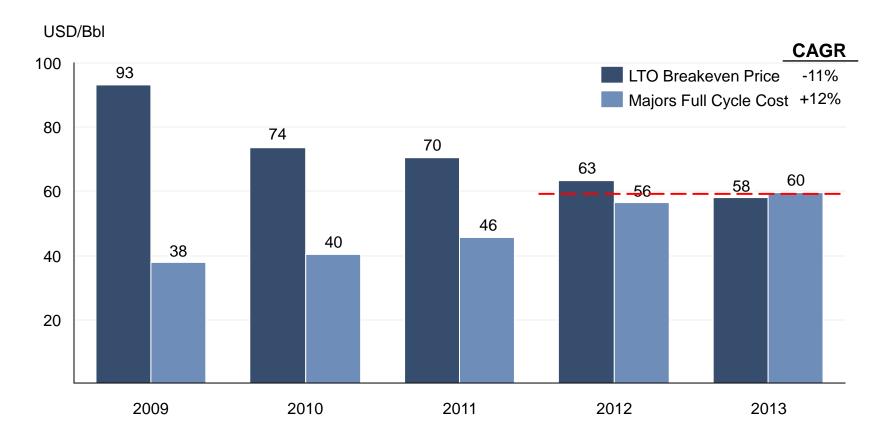


Source: SBC Analysis

Light Tight Oil (LTO) breakeven price have reached majors' full cycle cost

LTO BREAKEVEN PRICE¹ AND MAJORS FULL CYCLE COST²

USD per Barrel of Oil Equivalent, 2009-2013



- 1: F&D + Lifting costs. Pure unconventional NAM players
- 2: S&GA + F&D + Total Production + WACC. Majors

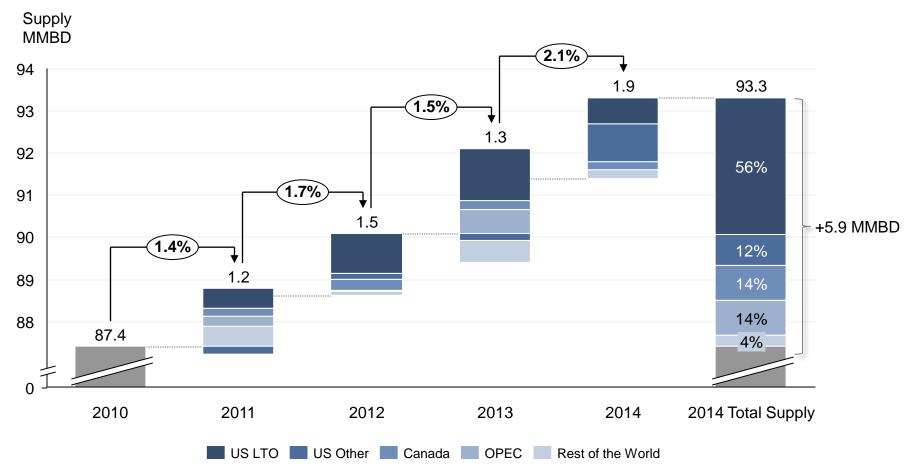
Source: Rystad; IHS; Evaluate Energy; Goldman Sachs

Schlumberger-Confident

2014 has seen the largest supply increase since 2010 mainly due to North America LTO

SUPPLY GROWTH BY SOURCE

Million Barrels per Day, Percentage of total increase, 2010-2014

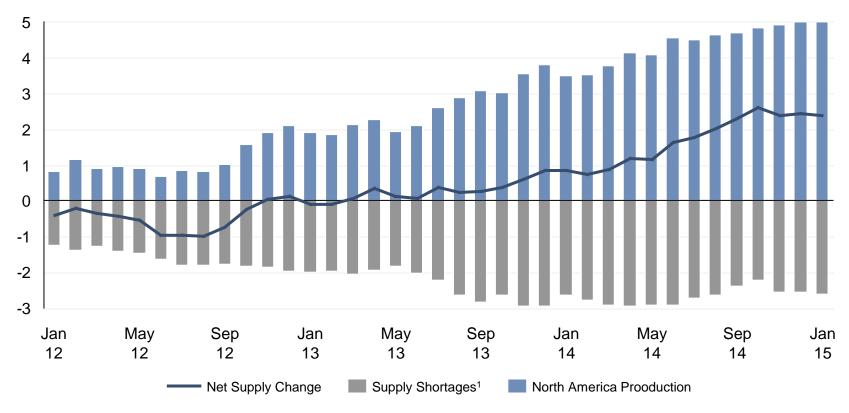


The increase in North America production outstripped supply shortages

WORLDWIDE NET SUPPLY CHANGE

Million barrels per day, 2012-2015

Net Supply Change MBD



1: Includes Iran, Libya, Sudan & South Sudan and Syria

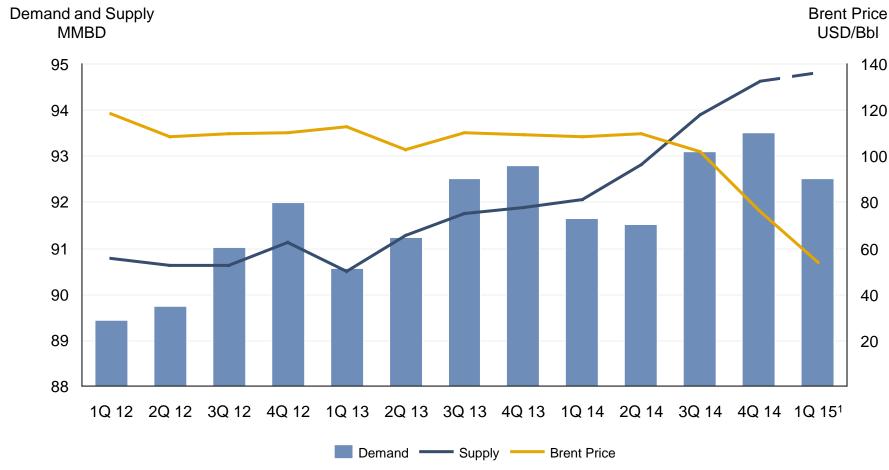
Note: vis-à-vis production change based on Jan 2011

Source: IEA Oil Market Reports; SBC Analysis

Supply exceeded demand which led to oil price drop

DEMAND AND SUPPLY IMBALANCE PRODUCED OIL PRICE DROP

Million Barrels per Day, USD per Barrel, 2012-2015



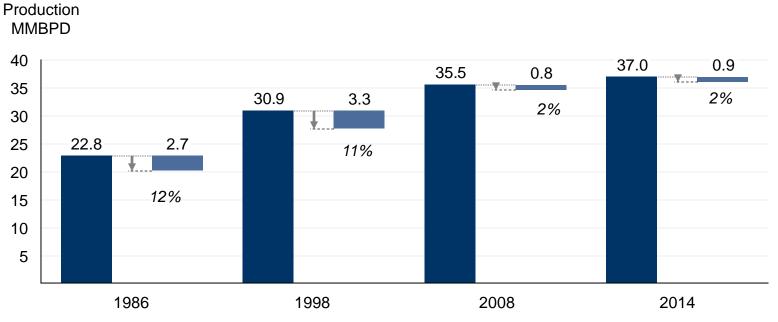
1: 1Q 15 Year-to-date price average - March 9th, 2015

Source: IEA Oil Market Reports; EIA Europe Brent Spot Price; SBC Analysis

Surplus is not as large as previous price crisis

SUPPLY AND DEMAND GAP IN PREVIOUS OIL PRICE CRISIS RELATIVE TO OPEC PRODUCTION

Million Barrels per Day, Percentage of OPEC Production, 1986-2014



Price decrease	65 to 21 USD/bbl	35 to 15 USD/bbl	144 to 44 USD/bbl	112 to 48 USD/bbl
	-68%	-58%	-70%	-57%
Months to recover ¹	12	7	14	??

OPEC Production Supply Surplus

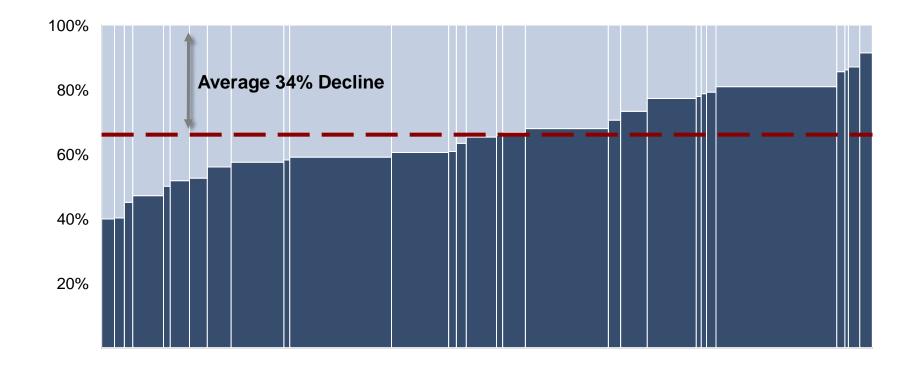
Source: IEA Oil Market Reports; SBC Analysis

^{1:} Time to reach 70% of peak price before a largely continuous downward trend

US operators have began to slash Capex

NORTH AMERICA CAPEX REDUCTIONS

Percentage, 2015 relative to 2014¹

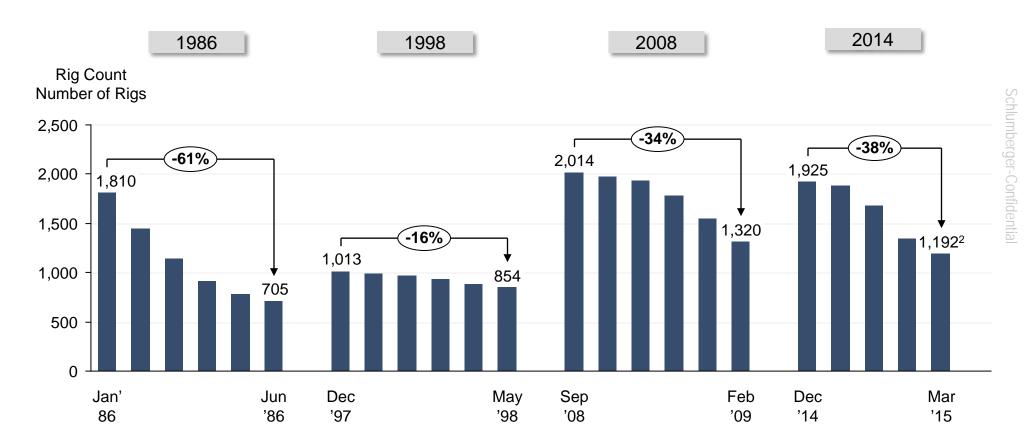


1: As of Q4, 2014 Source: IHS; SBC Analysis

Rig count activity decrease rate is the second largest compared to previous crisis

US ACTIVE RIG COUNT IN OIL PRICE CRISIS - FIRST 6 MONTHS OF CONTINUOUS DROP

Number of rigs¹, 1986 - 2015



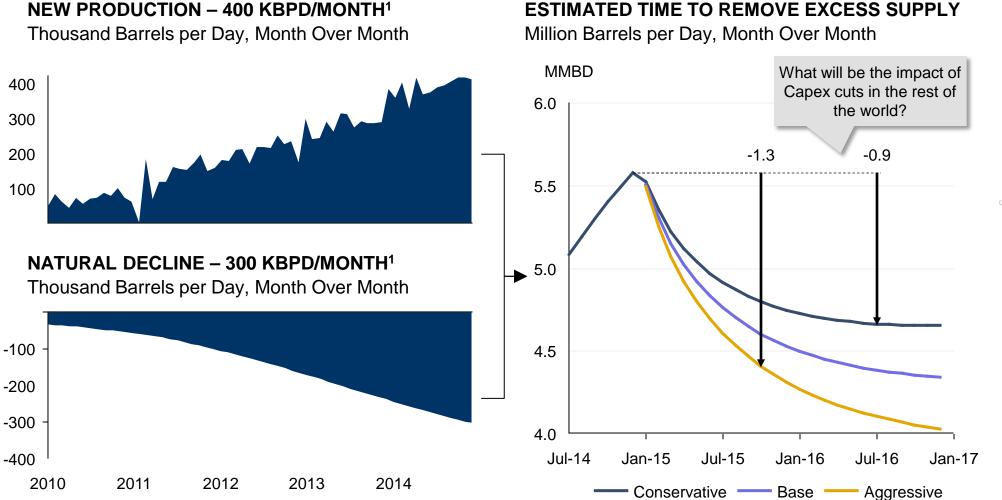
^{1:} US active rig counts includes all Oil & Gas Rigs; Monthly average rig count

Source: IHS; Baker Hughes North America Rotary Rig Count; SBC Analysis

^{2:} Rig count reported for the week of February 28 to March 6, 2015

Schlumberger-Confidential

Time to recovery depends mostly on North America LTO decline



1: Includes Niobara, Permian, Bakken and Eagle Ford Source: IEA; SBC Analysis