



Torstein Hole, SVP US Onshore & Andy Winkle, VP Marcellus

Onshore operator commitments



- 1 Safe operations
- Minimizing our environmental footprint
- 3 Earning trust
- 4 Always improving



Premium portfolio in core plays



Bakken

- ~ 290 000 net acres
- Concentrated liquids drilling
- Production 50 200 boepd



Eagle Ford

- ~ 59 000 net acres
- Liquids ramp-up
- Production 37 700 boepd

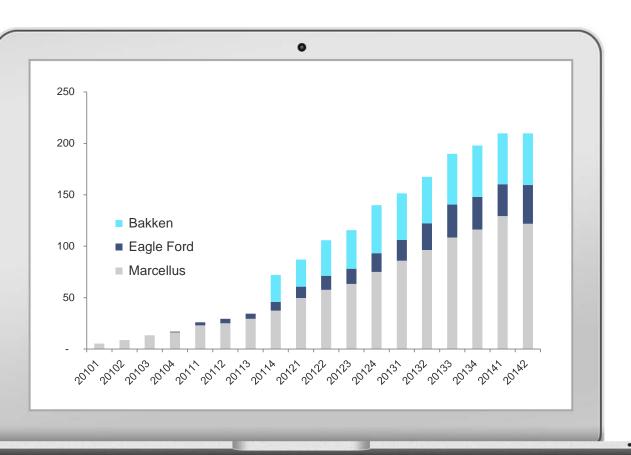


Marcellus

- ~ 605 000 net acres
- Production 121 900 boepd



Long-term production growth



2013 Eagle Ford operator

2012 Marcellus operator

2011 Bakken operator

2010 Eagle Ford

2008 Marcellus JV



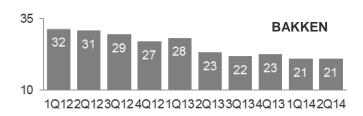
Increased value (US onshore well manufacturing)

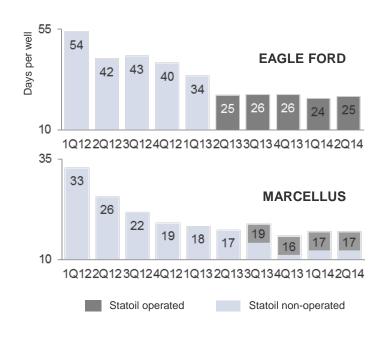
Total well cost ~ 90% of upstream capex, 25% to 50% reduced drilling cost, 30% to 50% reduced drilling time

Further total well cost reduction potential ~15% by 2016

Upside from **new technology** development

Drilling time reductions per well from 2012 to 2013:







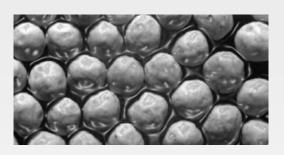
The way forward



Continuous focus on cost, efficiency and optimisation of operations



Fast-track identification, development and implementation of short-term technology upsides



Prioritised development of potential game-changing technologies

High performance / automated rigs

- Advanced ancillary drilling services;
- Remote monitoring of well / facility performance

SHORT - MEDIUM - LONGER TERM

- Choke management
- Refracturing
- Emissions, water and waste Management

- Non-aqueous fracturing systems
- Cost-effective gas injection EOR technologies
- Advanced proppants

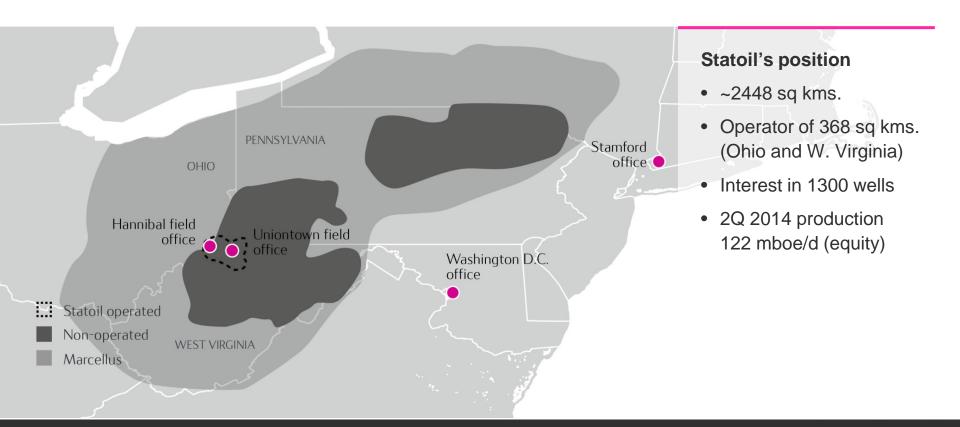


The Marcellus: an onshore giant

One of the largest gas fields in the world

• 14*10⁶ M cubic meters (500 tcf)

- Production 420 M cubic meters/day
- Forecast 840 M cubic meters/day by 2030





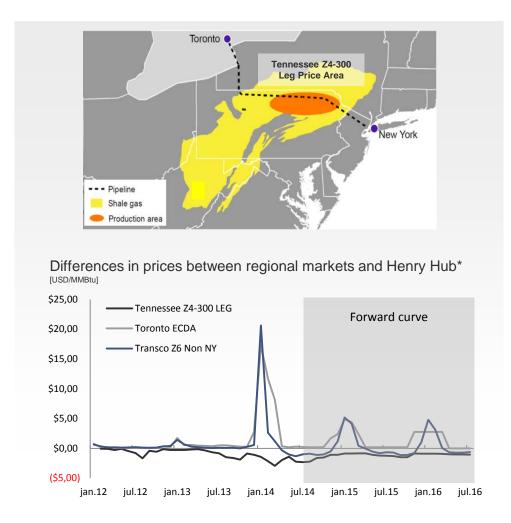
Midstream: capturing value in the US market

Secured access from northern Marcellus production area to premium markets in Toronto and New York

- Pipeline capacity of 320 000 MMBtu/day¹⁾ to Toronto region since Nov-2012
- Pipeline capacity of 205 000 MMBtu/day²⁾ to New York City since Nov-2013

Exploring new mid- and downstream opportunities for Southern Marcellus

- · Sales of gas liquids
- New pipeline options to reach premium markets





¹⁾ Equivalent to ~ 55,000 boe/d and 0.32 bcf/d



²⁾ Equivalent ~ 35,000 boe/d and 0.2 bcf/d



