



P&A The growth sector in Global Oil and Gas?

2/4 M

Tim Croucher

Wells Excellence and Decommissioning Manager

2/4 X

2/4 FTP

2/4 Q

ConocoPhillips Norway

2/4 C



2/4Z



Cautionary Statement

The following presentation includes forward-looking statements. These statements relate to future events, such as anticipated revenues, earnings, business strategies, competitive position or other aspects of our operations, operating results or the industries or markets in which we operate or participate in general. Actual outcomes and results may differ materially from what is expressed or forecast in such forward-looking statements. These statements are not guarantees of future performance and involve certain risks, uncertainties and assumptions that may prove to be incorrect and are difficult to predict such as oil and gas prices; operational hazards and drilling risks; potential failure to achieve, and potential delays in achieving expected reserves or production levels from existing and future oil and gas development projects; unsuccessful exploratory activities; unexpected cost increases or technical difficulties in constructing, maintaining or modifying company facilities; international monetary conditions and exchange controls; potential liability for remedial actions under existing or future environmental regulations or from pending or future litigation; limited access to capital or significantly higher cost of capital related to illiquidity or uncertainty in the domestic or international financial markets; general domestic and international economic and political conditions, as well as changes in tax, environmental and other laws applicable to ConocoPhillips' business and other economic, business, competitive and/or regulatory factors affecting ConocoPhillips' business generally as set forth in ConocoPhillips' filings with the Securities and Exchange Commission (SEC). We caution you not to place undue reliance on our forward-looking statements, which are only as of the date of this presentation or as otherwise indicated, and we expressly disclaim any responsibility for updating such information.

Use of non-GAAP financial information – This presentation may include non-GAAP financial measures, which help facilitate comparison of company operating performance across periods and with peer companies. Any non-GAAP measures included herein will be accompanied by a reconciliation to the nearest corresponding GAAP measure on our website at *www.conocophillips.com/nongaap*.

Cautionary Note to U.S. Investors – The SEC permits oil and gas companies, in their filings with the SEC, to disclose only proved, probable and possible reserves. We use the term "resource" in this presentation that the SEC's guidelines prohibit us from including in filings with the SEC. U.S. investors are urged to consider closely the oil and gas disclosures in our Form 10-K and other reports and filings with the SEC. Copies are available from the SEC and from the ConocoPhillips website.





P&A

The growth sector in Global Oil and Gas?

Multiple millions of wells around the globe is either still producing or shut in pending P&A

2,400 wells will be plugged in the North Sea over the coming decade

In 2014, over 1.1 million active oil and gas wells in the USA and > 1,7 million by the end of 2015





NOROG PAF Seminar - 17th October 2019



'Shaping the Next Wave in Well Plugging and Abandonment"

Focus Areas included:

- Stakeholder Hopes / Concerns / Risks
- Uncertainties around wellbore conditions
- How to Achieve "Technical Limit"
- The Regulators Perspective
- New Technologies / Techniques / Materials
- Barrier Verification



Priorities going forward included:

- Raise the awareness of the criticality of the P&A sector regarding environmental prudence
- Involve sub-surface expertise early in the P&A process
- The need for international standards for qualification of plugging materials
- Design new wells for effective final P&A
- Improved QA for verification of cement plugs
- More focus on data to improve Risk Assessment modelling
- A strong need for developing and maintaining P&A professionals



Current PACE members (aiming for 10 more by Q4 2020)





Current P&A Drivers

Prescriptive standards designed to cover all wells, including necessary safety factors for a very broad spectrum of well types.



The Game Changer?

Experience and knowledge gained over the last decade offers an alternative approach to P&A design and execution



Future Risk Based P&A —

Establish and manage P&A Strategy Well specific P&A Design - multi functional risk assessment to determine plugging strategy





Future P&A Improvement Opportunities - Rig based P&A Solutions





Future P&A Improvement Opportunities - Rigless P&A Solutions





Future P&A Improvement Opportunities - Hybrid P&A Solutions







P&A Is **THE** growth sector in Global Oil and Gas

