Egypt's West Mediterranean Sea A New Opportunity

Øystein Lie MC Project Manager London, October 2015



A Clearer Image | www.pgs.com

Outline



Introduction

- Activities in the East Mediterranean Sea
- Egypt's West Mediterranean Sea
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- Summary
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250km

PGS in East Mediterranean





Zohr Discovery

- 30Tcf, the largest gas discovery in the Mediterranean
- 1,450m, water depth
- 4,131m, total well depth
- 630m HC column in Miocene carbonates
- Satellite structure of the Eratosthenes High
- Biogenic gas charged from Tertiary source
 - Can a new giant be discovered elsewhere in Egypt?



OLIGO-MIOCENET

Bertello et.al., 2014

Egypt's West Mediterranean Sea





Regional 2D Line

- Regional geosection showing the main sequences in the Hinge Zone and the Herodotus Basin.
- Based on Legacy 2D data.







Lead Types



Pre-Salt Structures



Pre-Salt Structures



- Zohr discovery in Pre-Messinian structure (Carbonate)
- Expected to be charged laterally by biogenic gas
- Pre Messininan structures in Egypt's West Med:
 - Similar temperature window, thus similar window of biogenic gas generation
 - Lateral charge possible due to long distance unconformities
 - Sealed by Messinian Salt
 - Need denser seismic data grid to assess the area



Basin floor fans and turbidites of Late Miocene age sourced from Nile Delta.

- Sub-salt sandstone reservoirs
- Possible extension towards west and north

New Geophysical program plan





Summary



- Exciting times in the East Mediterranean with the 30 Tcf Zohr discovery in Egypt's Shorouk deep water exploration block.
- A new exploration opportunity in Egypt's West Mediterranean Sea.
 - New MC2D data to be acquired in an area of 80,000 sq.km
 - Identified sub-salt structures
 - Reprocessing of legacy 2D data ongoing
 - Data assessment and exploration block delineations
 - Licensing round in 2017 (Tentatively)

Acknowledgements



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250km

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