

# EXPLORATION GEOSCIENCES TECHNICAL STUDIES: UK

## ZECHSTEIN PROSPECT EVALUATION

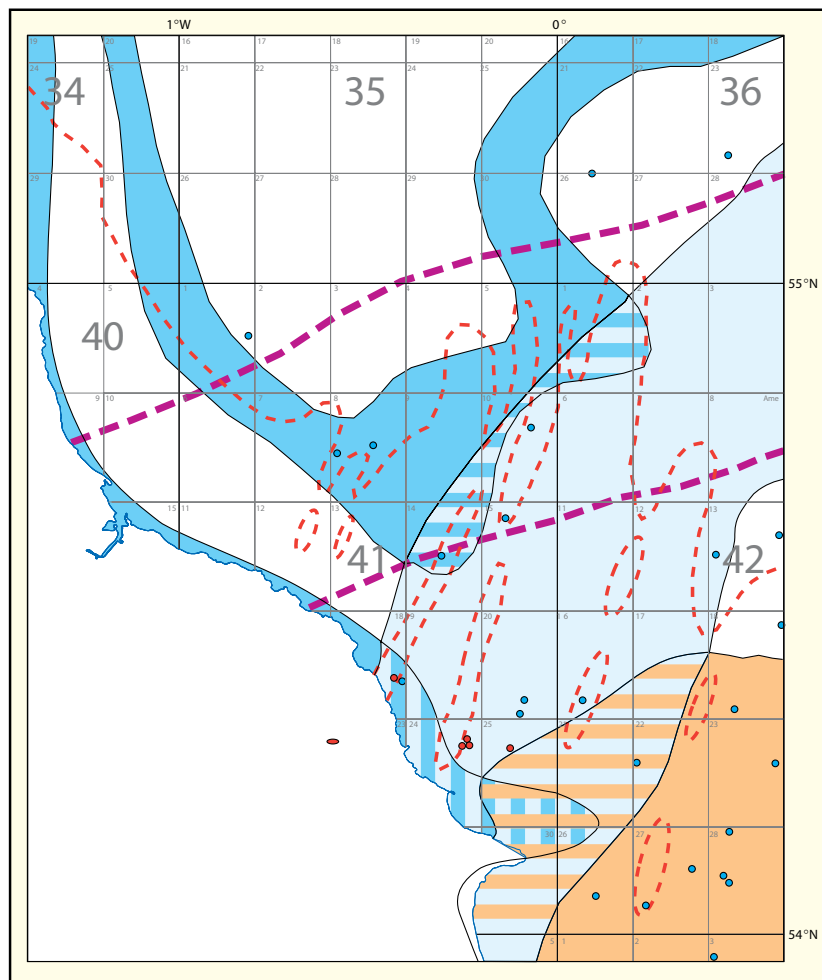
UKCS QUADS 34, 35, 40, 41 & 42

As the UK rapidly becomes more dependent on imported gas we are pleased to deliver, an 'off the shelf' complete and unique evaluation of the potential of a new gas play located offshore Yorkshire where Zechstein carbonate reservoirs offer real opportunity. This is a proven play concept with a 66% success rate on valid structures.

Over 6,000 km of seismic data have been analysed together with 28 wells and onshore UK and foreign (Polish) analogues are also provided. Three development cases are considered from wellhead to end-user and a number of economic analyses are presented.

The results show there are:

- Over 50 leads mapped across two UK quadrants of which 4 prospects have the potential to hold in excess of 200 bcf sales gas.
- At least 8 project areas with the opportunity to achieve rates of return in excess of 20%



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## Contents:

### Geology

Over 100 graphic and text slides are included covering:

- Basin Stratigraphy
- Diagenesis
- Z1, Z2 and Z3 Carbonates
- Observation from Polish Fields
- Polish Exploration Techniques
- Known Discoveries
- Reservoir Data
  - test data
  - facies maps
  - palaeogeography
  - core data and interpretation
  - isochore maps
- Source Rocks
- Prospects
- Reserves
- Play Maps
- Summary

### Geophysics

Over 140 graphic and text slides are included covering.

- Introduction and Regional Setting
- Database
  - Seismic
  - Wells
  - Seismic ties
- Interpretation and Mapping

- Results and Seismic Examples :
  - Prospect locations
  - Structural elements map and description
  - Carboniferous subcrop maps
  - Example discoveries and seismic well ties
  - Seismic examples of structural styles
  - Seismic examples of specific prospects
  - Examples of stratigraphic traps
- Regional TWT Structure Map
- Conclusion

### Development Plan, Engineering and Economics

85 slides consider conceptual development plans, engineering and economics in sufficient detail to indicate the commercial viability of the prospects described in the geology and geophysics sections.

- Engineering Issues
  - Environment
  - HSE
- Exploration Risk and Approach
- Development Plan
  - reserves, well development programme and productivity
  - pipeline details and routing
  - landfall options
  - onshore processing facilities
  - capex and opex
  - commercial assumptions and economics
- Conclusions

**Engineering Appendix** - a separate engineering annex provides more background details on design, cost estimates and economic valuations.

### Commercial Details

The report was completed in 2002

The cost of the report, exclusive of any tax, delivery or customs duties is **£30,000**

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