Southern North Sea – UK – 2013

SNS2013M 3D

Modern 3D seismic data in an exciting frontier exploration zone

Extending 3D coverage to the north of the Southern North Sea gas province and frontier acreage on the Mid North Sea High, this modern dataset provides a new tool to expand understanding of the geological framework and hydrocarbon potential.

The main petroleum system is characterized by a Carboniferous source rock and individual Carboniferous to Lower Permian fluvio-deltaic reservoir sandstones, sealed by Zechstein evaporites. Additional post-salt discoveries are situated in Triassic sandstones, typically onlapping on Zechstein diapirs.

The introduction of a new 3D dataset over the Mid North Sea High provides an invaluable tool to research new sub- and supra-salt plays to the north of the main Permian basin and to better characterize the existing leads, including Carboniferous structures and an inferred Permian carbonate play.
### SURVEY SUMMARY

**Type:** 3D  
**Geometry:** Standard  
**Size:** 1,520 sq. km  
**Acquisition year:** 2013  
**Completion of processing:** 2014  
**Water depth:** 72 m  
**Shooting direction:** 34/214  
**Vessel:** Pacific Explorer

### ACQUISITION PARAMETERS

- **Number of streamers:** 6  
- **Streamer length:** 6,000 m  
- **Streamer separation:** 100 m  
- **Shot interval:** 18.75 m  
- **Record length:** 7,000 ms  
- **Source depth:** 6 m  
- **Sample rate:** 2.0 ms  
- **Bin dimensions (Acquisition):** 6.25 x 25 m  
- **Bin dimensions (Processing):** 12.5 x 12.5 m  
- **Fold:** 80

### PROCESSING AND DELIVERABLES

**Processing:** High resolution radon demultiple, Full bandwidth processing, Optimal shallow water demultiple, Kirchhoff prestack time migration (PSTM)

**Time products:** 3D anisotropic Kirchhoff pre-stack time migration