Geo-Drilling Events database
Webportal hosted by EBN
Planning new wells involves careful screening of the reservoir for potential drilling hazards. This database provides a better understanding of Geo-Drilling Events (GDEs) and hazards in the Dutch subsurface. GDEs are those events for which a significant geological component contributed to the cause of the incident. This database provides a better understanding of Geo-Drilling Events (GDEs), geothermal events, and hazards in the Dutch subsurface.

Information in the database
- Around 1100 on- and offshore wells have been analyzed in a detailed manner.
- The database currently contains 2200 wells of which approximately 700 on- and offshore wells have been analyzed in a detailed manner.

The database consists of 3 parts:
- Geo-Drilling hazards (interpretations)
- Geo-Drilling events (observations)
- Generic well data

The database contains information on drilling events from existing wells. This database is freely accessible for operators active in the Dutch subsurface.

For questions contact info@nlog.nl or exploration@ebn.nl

Learnings from data analysis by EBN
From Data to Information
Geo-Drilling Events database
Webportal hosted by EBN (available in 2019)

The Hydrocarbon Show (HCS) database provides a systematic overview of hydrocarbon shows based on drilling data, well test data and sidetrack wells. This information is compiled probabilistically and is an essential base for drilling the Dutch subsurface. The HCS database contains information on hydrocarbon shows in all stratigraphic units and is compiled using well test and core data from the Dutch subsurface. The database is compiled probabilistically and includes estimates of the reservoir rock volume. This information is used for exploration purposes and to assist in well planning, including geothermal wells.

Information in the database
- The database currently contains 1600 wells of which approximately 350 on- and offshore wells have been analyzed in a detailed manner.

The database consists of 3 parts:
- Geo-geological events (interpretations)
- Geo-geological hazards (observations)
- Generic well data

The database contains information on drilling events from existing wells. This database is freely accessible for operators active in the Dutch subsurface.

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Figure 2a. Map view of the GDE database in the spotfire analysis tool. The observed GDE types are indicated as colored spheres for which additional information is available, b. Regional selection of GDEs’ plotted by their GDE depth (TVD).

Figure 3. Integrated visualization of HC show test data with seismic- and well log data (gamma ray).

Figure 1b. Distribution of interpreted geological hazards while drilling in the Netherlands.

Figure 4a. Map view of the HCS database in the analysis tool. Each stratigraphic interval is classified and hazards in the Dutch subsurface are indicated as colored spheres for which additional information is available, b. Regional selection of HCS plotted by their stratigraphic group.