

WELLSITE GEOLOGY

19 - 21 Aug 2015 / Bandung, Indonesia

In this three day course, the practice of Well Site Geology (WSG) will be addressed. The wellsite geologist acts as the link between the drilling supervisor, rig personnel and the company's office. As such, his responsibilities incorporate all geological activities on the rig. One of his main duties is to obtain as much geological information of the drilled well as possible and report that information in a clear way. After completing this course, the participants will be able to perform the basic well site geological duties.



INSTRUCTOR :
Mr. D. (DICK) STEGERS

has working experience of deep subsurface at the Dutch Geological Survey (TNO) and

Amsterdam Petroleum Geoscience. He completed his Masters on 'Structural and Sedimentary Geology, Basin analysis and surface processes' at the Free University Amsterdam. At TNO he was responsible for the evaluation of license applications. He executed several studies, including: regional 3D-modeling of the sandy facies of the Slochteren Formation; seismic study of the Carboniferous in the northern Dutch offshore; geothermal analysis of the West-Netherlands Basin; stratigraphic research of the sedimentary development of the Upper Jurassic in the Terschelling Basin, including core descriptions and well log analysis. He is currently involved with geological and seismic research and as a wellsite geologist at Amsterdam Petroleum Geoscience.

Course Content:

- Duties and responsibilities of wellsite geologist
- Supervision of the mud logging
- Cuttings/Coring
- Wireline/MWD-logging
- Testing
- Communication and reporting

WHO SHOULD ATTEND?

Well- site geologists, drilling and operations engineers and other staff involved in the acquisition and use of wellsite (geological) data.

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COURSE AGENDA

DAY 1

Supervision of the mudlogging

One of the most important jobs on the drillsite is mudlogging. The mudloggers are responsible for essential sources of information like cutting descriptions and accumulation of samples. They also observe critical parameters like H₂S-detection and mud flow levels. The wellsite geologist supervises the mudloggers.

Cuttings/Coring

The only direct link with the drilled geology is the rock itself. This can be obtained by cuttings or by coring. The cuttings are described by the mudlogger, and give the best indication of the currently drilled interval. Coring is often done in the reservoir interval, as it gives opportunities for obtaining sedimentological data, specified interval plugging, thin sections and more.

DAY 2

Wireline/MWD-logging

Usually a Measured-While-Drilling-tool (MWD) is added in the bottomhole assembly to obtain direct measurements of the geological sections, giving valuable information to the WSG for further evaluation. Extra information can be extracted by running extra logs including Gamma Ray, Sonic, Density and Resistivity.

Testing

Several test might be performed, during drilling operations. Common tests are Formation Integrity Tests (FIT), Wireline Formation Tests (RFT/WFT) and drill stem tests. While the former is mainly performed to determine the maximum pressure for further drilling, the latter ones are executed for formation evaluations.

DAY 3

Communication and reporting

As the WSG is the main link between office and rigsite personnel, communication is very important. As such, different documents have to be prepared during and after drill operations to support communication, including: Daily Reports, Master Logs and the Final Well Report.

Final part of the course : Summary and reconciliation.



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