



OESG

11—Wireline logging

Features

Wireline logging involves lowering a variety of tools into an oil or gas well on an electric cable in order to gather measurements that can be used to characterise the geology. Some logging takes place before the protective casing is installed (open-hole logging) and some afterwards (cased-hole logging).

Advantages

The various wireline logging methods are used identify the presence of hydrocarbons and give an indication of whether or not oil or gas is present in commercial quantities. They measure rock porosity, water and hydrocarbon saturation levels, and the vertical extent of the target formation.

Benefits

By taking a range of measurements using wireline tools, it is possible to determine whether or not it is economically justifiable to complete and produce a well—if not, allowing companies to abandon their plans before mobilising additional hydraulic fracturing equipment and avoiding the attendant disruption to local communities.

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