

DEP SPECIFICATION

DESIGN A LOGGING PROGRAM

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DESIGN AND ENGINEERING PRACTICE

DEM1



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1. INTRODUCTION

1.1 SCOPE

This DEP specifies requirements and gives recommendations for designing a logging program. The purpose of this DEP is to ensure that data acquisition plans are captured in logging programs that are intrinsically safe. For this, best estimates of relevant data, including their uncertainty ranges pertinent to the planning of logging operations, are to be provided as input to well drilling, well intervention/workover and abandonment proposals. The logging programs support logging operations in newly drilled wells (exploration, appraisal, development wells) and in existing wells.

It is not in the scope of this document to specify which discipline(s) will provide the data relevant for planning of logging operations. This responsibility varies between regions and OUs, and is therefore, specified in the region or OU-specific governance.

This DEP covers the planning of a wide range of open hole and cased hole logging operations, e.g., electric wireline logging including conveyance assisted methodologies by pipe or tractor; slickline logging operations, e.g., pressure gauges or memory PLTs; through bit logging operations; tubing conveyed logging operations; MWD/LWD/FEWD operations.

The planning of logging operations resides with the Petrophysics Discipline Head, with the following exceptions excluded from this DEP:

- the provision of functional specifications for cased hole perforation activities as part of well completions which resides with the Production Technology Discipline Head;
- the planning of drill pipe recovery related operations, as well as the planning of cased hole perforation activities as part of well completions both of which reside with the Well Engineering Discipline Head, with input provided by subsurface disciplines (in particular the selection of the perforation intervals and the reference or tie-in log).
- the setting of plugs which resides with either the Production Technology Discipline Head or the Well Engineering Discipline Head depending on the nature of the plug.

This DEP contains mandatory requirements to mitigate process safety risks in accordance with Design Engineering Manual (DEM) 1 – Application of Technical Standards.

This is a revision of the DEP of the same number dated February 2014; see (1.5) regarding the changes.

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This DEP is intended for use in facilities related to oil and gas development or production. This DEP may also be applied in other similar facilities, e.g., mining or water projects.

When DEPs are applied, a Management of Change (MOC) process shall be implemented; this is of particular importance when existing facilities are to be modified.

If national and/or local regulations exist in which some of the requirements could be more stringent than in this DEP, the Contractor shall determine by careful scrutiny which of the requirements are the more stringent and which combination of requirements will be acceptable with regards to the safety, environmental, economic and legal aspects. In all cases, the Contractor shall inform the Principal of any deviation from the requirements of this DEP which is considered to be necessary in order to comply with national and/or local regulations. The Principal may then negotiate with the Authorities concerned, the objective being to obtain agreement to follow this DEP as closely as possible.