

Field Verification of Rig Devices for Oil and Gas Well Drilling Operations

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Field Verification of Rig Devices for Oil and Gas Well Drilling Operations

1 Scope

This document contains field verification procedures for critical drilling rig devices used in drilling operations. Its purpose is to promote and maintain the quality and consistency of field verification processes for device management and operational capabilities.

The critical drilling rig devices addressed in this recommended practice are for:

- a) surface-applied rotary torque;
- b) make-up torque;
- c) hook load;
- d) rotational speed;
- e) block position;
- f) pressure; and
- g) pump rate.

This recommended practice does **NOT** address the following:

- accuracy requirements;

NOTE Accuracy requirements for a given application are determined by the operator, drilling contractor, and/or service company.

- device calibration or actions to correct accuracy issues (in respect to results of field verification and accuracy requirements);

NOTE Field verification can be performed after the corrective action to check if the corrective action resolves the accuracy issue.

- the frequency and/or trigger events for field verification.

NOTE Results from field verification can be used to determine the frequency and trigger events.

These procedures apply to rotary drilling rigs. Special considerations may have to be made for floating, slant, other nontraditional fixed rigs, and workover rigs.

2 Normative References

The following referenced document is indispensable for the application of this recommended practice. For a dated reference, only the edition cited applies. For an undated reference, the latest edition of the referenced standard applies (including any addenda/errata).

API Specification Q2, *Quality Management System Requirements for Service Supply Organizations for the Petroleum and Natural Gas Industries*