TECHNOLOGY CERTIFICATE

Certificate no.: <2020-1141>

Initial date: <28.01.2021>

Valid until: <28.01.2021 + 4 yrs>

This is to certify that

Enhanced Kick Detection (EKD) system

as detailed in /1/ has been qualified in accordance with DNV-RP-A203 Technology Qualification /2/. DNV GL considers the EKD system to be qualified and able to detect and recognize gain or loss of 5 GPM while drilling provided that the conditions and requirements stated below and in /3/ are met.

Owner: Enhanced Drilling AS

Name: Enhanced Kick Detection (EKD) System as further detailed in /1/

Description: The Enhanced Kick Detection (EKD) system enables rapid kick detection in drilling operations

and gives the driller information regarding fluid gains and losses in operation as further

detailed in /1/.

Use: The EKD system comprises a pump system connected to the riser topside on a floating drilling

unit. The pump reduces the level in the riser to below the bell nipple and pumps fluid returns from the riser to the flow line in a separate conduit, bypassing the bell nipple. A set of pressure sensors are installed on a flow spool located between the upper flex joint and the telescopic joint and a flow meter is installed in the mud return line, providing vital data to the EKD control system. The system can recognize gain or loss of 5 GPM while drilling, with reference to /3/ for

precise specification.

Conditions: The conditions of validity of this certificate are detailed in /3/, the main ones being:

Rig movement: Up to 5m heave with 13 second period.

Instrument error: Less than +/- 3 GPM

Trend duration: Max 5 minutes to determine loss or gain

Detect limit while static: 1GPM gain or loss

Detect limit while drilling: 5GPM gain or loss

Involvement: DNV GL has been involved in the qualification process as required according to /4/, and

reviewed the acceptance criteria detailed in /3/.

Verification, Conformance with stated acceptance criteria and context requirements /3/ shall be verified for

certification: delivery and operation. Products can be subjected to certification according to /5/.

DNV·GL

Reference DNV-RP-A203, Technology Qualification, July 2019 /2/ documents: INV1519-7040-T007, Qualification Test report Rev.01, 2021-01-21 /3/ DNVGL-SE-0160, Technology qualification management and verification, 2015 /4/ DNVGL-OS-E101, 2018, Drilling Facilities /5/ DNV GL shall not be held liable for undiscovered failure modes or causes or for missing qualification activities. <Høvik 28.01.2021> for DNV GL AS Hallvard Thune Uglane Jan Olav Moen

Project Manager

INV1496-7000-T025 Rev.03, "Qualification Basis, EKD System"

/1/

Engineer