

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Hoisting, Rotation and Pipehandling Equipment

with type designation(s)
350 Ton Hydraulic Casing Elevator, ASD 350T, 30"-36"

Issued to

Forum US, Inc.
Broussard LA, United States

is found to comply with

DNVGL-OS-E101 – Drilling plant, Edition July 2015
DNV-OSS-201 - Verification for Compliance with Norwegian Shelf Regulations - Ch.2 Sec.7
DRILL (N), October 2014

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **2021-04-07**.

Issued at **Houston** on **2016-04-08**

for **DNV GL**

DNV GL local station: **Houston - Systems & Components**

Approval Engineer: **Kairy Otero**

Brandon D Caraway
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Job Id: **262.1-012327-2**
Certificate No:

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AS.

Reference Standards

-API Specification 8C, Drilling and Production Hoisting Equipment (PSL 1 and PSL 2), Fifth Edition
-NORSOK STANDARD R-002, Lifting Equipment, Edition 2, September 2012

Product description

350 Ton Hydraulic Casing Elevator, ASD 350T, Frame Size: 30" – 36".

Application/Limitation

Minimum Design Temperature	: -45°F	-43°C
Maximum Design Temperature	: 212 °F	100 °C
Maximum Load Rating	: 350 Tons	317 Tonnes
Service	: Standard Marine Environment	

Type Approval documentation

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Tests carried out

Prototype tested per API 8C, Alternative Design Verification Testing, ref. FET-11-001 Rev.B

Holloway Houston Test Certificate # H379272-1-1P, dated 2011-09-22.

Marking of product

For the traceability to this Type Approval Certificate, the products marking shall:

1. Be reviewed and approved by the DNV GL local surveyor.
2. Identify and differentiate each production unit.
3. Establish traceability to product design and fabrication documentation.
4. Be in accordance with DNVGL-OS-E101 and API 8C

Periodical assessment

For retention of Type Approval, DNV GL's surveyor shall perform a survey every second year in accordance with DNV Standard for Certification 1.2.

Other conditions/comments

1. Testing, NDE and other quality control requirements to be carried out to the satisfaction of DNV GL's local surveyor.
2. All welding procedures to be reviewed/accepted by DNV GL's local surveyor.
3. Ref. PP146716

END OF CERTIFICATE