



CERTIFICATE OF APPROVAL

This is to certify that the following product has been approved by Fearnley Procter and an NS-1™ Technical Review Committee.

Date of Approval: 1/5/2011

Cert/NS-1™ Approval Number: 0047/11-2

Valid Until: 30/4/2013

Reviewed Against: General Requirements of

Review Number: FP FZE 515

Fearnley Procter NS-1™ Quality and Inspection Requirements for New and Refurbished Drilling and Well Completion Equipment, Edition 2 – January 2006

03.35.01.1110 Kelly Valves, Upper and Lower, Low Alloy Steel, Non-Sour Service Rev 02 November 2004

Candidate: **Don Mashburn Inc.** 103, Turn Row, Lafayette, LA 70508

Product: **15000 psi Kelly Valve Sub (DMV-337/Kit 1)**

NS-1™ LEVEL 2 PRODUCT APPROVAL

Scope:

A Level 2 Design Review was performed on 15000 psi Kelly Valve Sub (DMV-337/Kit 1) against the requirement of Fearnley Procter NS-1™ 03.35.01.1110 Kelly Valves, Upper and Lower, Low Alloy Steel, Non-Sour Service Rev 02 November 2004, and that the product was designed with consideration to catastrophic failure avoidance. Evaluations are conducted based on failure modes more commonly observed when equipment is used for purposes for which they were designed.

The DMV-337/Kit 1 is made up of a body component and a valve kit component. The valve kit (Kit 1) locates inside the body.

The following drawings were reviewed under this approval:

8.5 OD 1PC 15k Full Bore DMI-337 Layout (337-NS1-LO Rev B)

8.5 OD 1PC 15k Full Bore Kelly Valve Body (DM-337-NS1 Page 1 & 2 Rev A)

Any changes/revisions to the essential design stated in the supplied drawings above by Don Mashburn and documented in FP Inc. Job Report 382 Rev 0 will render the product "unapproved" subject to Fearnley Procter review of the changes.

Approved By:

A handwritten signature in black ink, appearing to read "Kevin Fearnley", is written over a dotted line.

Kevin Fearnley
(Chairman NS-1™ Technical Review Committee)