

EXPAND-O-LIZER® ES (EXTREME SERVICE) UNDERREAMED

CHALLENGE: A major operator in the Norwegian sector had experienced wellhead seal face damage caused by a competitors centralizers during the deployment of the 18.625" casing string. DHP was tasked with supplying a solution for this application, an underreamed centralizer with a low enough start/run force to avoid damaging the wellhead but still capable of enough restoring force to centralize the casing string when downhole.

TEST OBJECTIVES:

- To pass an 18.625" (25.000" O.D.) Expand-O-Lizer ES unit through a multi bowl wellhead to confirm what, if any, damage this action causes when running an 18.625" casing string.
- Pass an 18.625" (25.000" O.D.) Expand-O-Lizer ES unit through a single bowl wellhead to confirm what, if any, damage this action causes when running an 18.625" casing string.

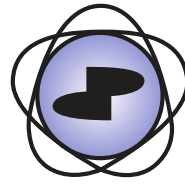
PERFORMANCE:

Multi Bowl Wellhead Seal Bore Test

The Expand-O-Lizer ES after (14) passes of the multi bowl wellhead. The Xylan coating has worn at the contact points with the wellhead (the coating can be seen on the wellhead picture overleaf) which was expected and deemed inconsequential.



For further information on this tool and proposed applications, please contact your local DHP representative. Specifications may be liable to change without prior notice.



The multi bowl wellhead sealing area (19.750") after (14) passes with the Expand-O-Lizer ES, The wellhead was then inspected by a wellhead representative with no damage noted.



Single Bowl Wellhead Seal Bore Test

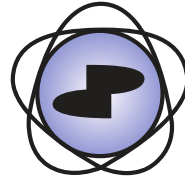
Expand-O-Lizer ES fully inserted into the wellhead bowl sealing area. The blades are compressed from a start OD of 25.000" to the 20.060" ID of the sealing area.



The wellhead sealing area after (14) passes with the Expand-O-Lizer ES. The sealing area is unmarked.



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DOWNHOLE
PRODUCTS

The Expand-O-Lizer ES was dimensionally checked after the test and found to have lost 1" from start OD of 25.000" down to 24.000"

(DHP always designed for this inch loss in OD for all Expand-O-Lizer ES applications). As underreamed applications become more of a necessity, to overcome the challenges faced by operators, the need for reliable fit for purpose products to centralize in the underreamed section can often lead these operators to become focused on claims of high restoring forces and manageable start/run forces.

DHP recognises that while these needs are indeed important to the success of an underreamed cementing operation, maintaining the integrity of the wellhead seals these centralizers pass through can be overlooked ,which can be a costly oversight.

The new improved radii non welded bows of an Expand-O-Lizer ES ensure excellent stand-off once in place downhole, safe in the knowledge that there will be no nasty surprises when landing off future casing hangers in the wellhead.

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