



AN ENGINEERED DESIGN SOLUTION

Centralising under-reamed sections



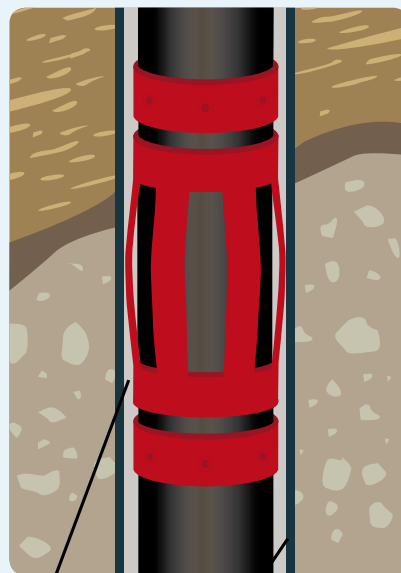
The key factor regarding good cement sheaths remains centralisation. Stand-off in an enlarged hole will now play a major role in the success of the cement job.

The best way to achieve good stand-off performance is via a spring bow centraliser. The **Centek S2** single piece bow spring centraliser is robust enough to withstand virtual complete compression in the previous set casing, yet once clear of that restriction it must expand out to the open hole diameter of the drilled under-reamed section.

Permanent set is a key factor and must be avoided to achieve the desired results. It would perhaps be unwise to run a centraliser, designed predominately for vertical sections, in a long and demanding well with various build sections to overcome. A standard type bow spring centraliser is not designed for such applications.

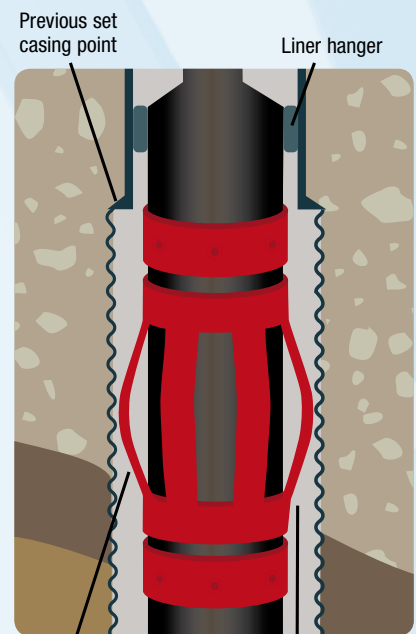
To achieve a high stand-off factor in the open hole, the actual size on surface would be prohibitive to actually placing the centraliser in the previous casing. Should it be squeezed down sufficiently the effect on drag could also be a major concern on RIH.

- **Maximised Stand Off in enlarged U/R section**
- **Strong yet flexible to withstand the loads applied on RIH**
- **Enhances the cement operations**
- **Enhances getting to bottom**



Centraliser compressed

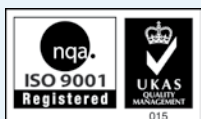
Previous set casing (TDP)



Centraliser expanded to gauge

Under reamed open hole section

CENTEK – BRINGING ENGINEERING INNOVATION TO THE INDUSTRY



Centek Centraliser

AN ENGINEERED DESIGN SOLUTION

SIZE CHART (INCHES)

5" x 7"

5" x 7 1/2"

5 1/2" x 7 1/2"

5 1/2" x 8"

7" x 9"

7" x 9 1/4"

7 5/8" x 9"

7 5/8" x 9 1/4"

7 5/8" x 9 1/2"

7 5/8" x 9 7/8"

9 5/8" x 12"

9 5/8" x 12 1/4"

9 5/8" x 13 1/4"

9 5/8" x 13 1/2"

9 5/8" x 14 3/4"

10 3/4" x 13 1/4"

11 3/4" x 14 3/4"

13 3/8" x 17 1/2"

13 5/8" x 17 1/2"

16" x 19 1/2"

16" x 20"

The **Centek S2 TUR** model addresses all these issues. The unit is robust as it is of a single piece construction with no welds or interlocking devices. The units are heat treated to achieve the desired designed parameters such as flexibility and stand-off. Units must be flexible to compress fully, must not set on RIH and must expand to the designed diameter of the well. The **Centek S2 TUR** is a tool now recognised as the leader in its field for under-reamed sections.

By having acceptable drag conditions when passing through the previous set casing, low drag conditions in the open hole and maximising stand-off in an enlarged annulus the **Centek S2 TUR** is the perfect aid to getting to bottom and enhancing the cement job.



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