

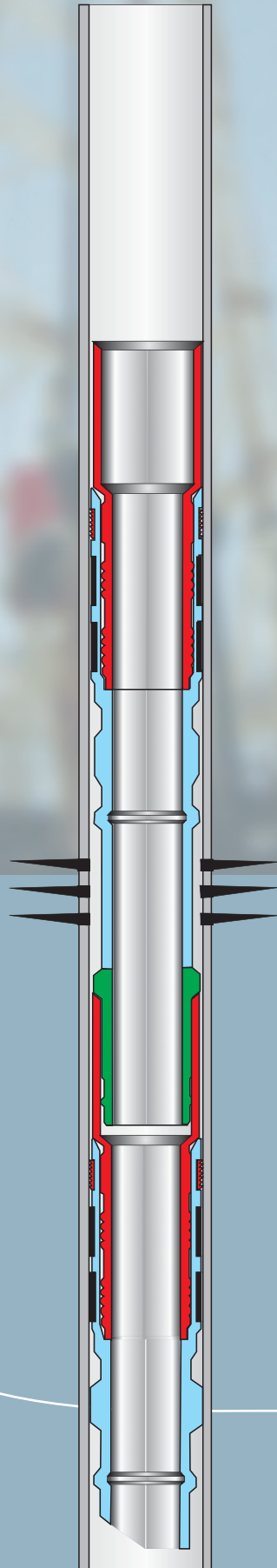
ENGINEERING INNOVATION WORLDWIDE

2T-XPatch™

Two-Trip Expandable Isolation System



OIL TOOLS



TIW® 2T-XPatch™ System

The TIW 2T-XPatch™ System is a two trip straddle packer (scab liner) system providing operators the ability to isolate – with conventional tubulars – casing defects in virtually any desired length string or the largest inside diameter found in the industry today. The 2T-XPatch™ System is used for remedial operations to isolate damaged casing or old perforations where a robust liner top seal is needed. The system's smooth full opening I.D. permits the passage of future service tools through the patch, reducing the possibilities of hang-up.

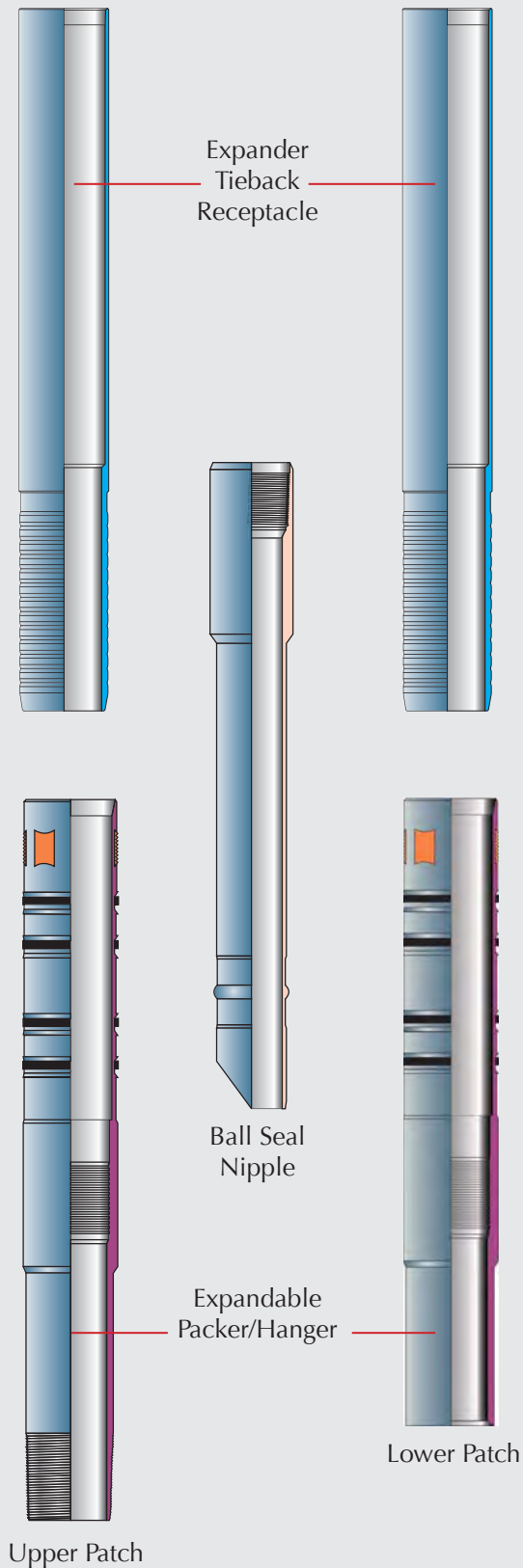
The 2T-XPatch™ System can be run, when hydraulically set with conventional surface pumps, in any type of wellbore inclination including high angle, horizontal, monobore or slim hole and is available to run in any type of downhole conditions including high pressure and geothermal environments. The TIW 2T-XPatch™ System requires minimal surface equipment to run and is available in most conventional tubing/casing sizes, resulting in tremendous cost savings for operators when remedial patch operations are required.

Flexibility

The system's unique design includes conventional tie back capabilities that allow a lower patch to be run simply as a liner. The system can then be tied back with a seal nipple as a full string tie-back to the surface or as a "stubbytie-back" when run with the Upper Patch. The Upper Patch also includes tieback capabilities that allow multiple patches to be run and "stacked" as desired.

Seal Technology

Utilizing elastomer seals and expandable metal technology, the 2T-XPatch™ System employs TIW's proven Metal-to-Metal Ball Seal Mandrels that not only expand the patch but provide a permanent leak-proof seal across corroded sections of pipe, perforations or any other type of leak an operator wishes to isolate in the well bore. The pressure integrity of the patch equals that of the liner run.



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