

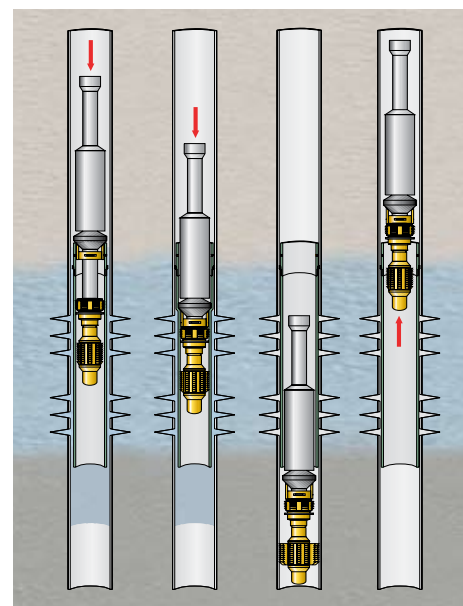
Expand Your Production Options With EXPatch™ Casing Cladding

Baker Oil Tools EXPatch™ Casing Cladding Systems

let you selectively line lengths of existing wellbore casing. As a result, you can tailor the clad length to fit your specific application. Short clad lengths may be used to blank off shorter sections of casing such as perforations for water shutoff applications or as remediation for shifted or parted casing. Inversely, long clads may be used in situations such as in corroded casing support for either drilling or production applications. This flexibility gives you the ability to adjust the cladding length to fit your exact wellbore application.

Sealing Capabilities

EXPatch uses FORMlock technology to create a definitive anchor/sealing section with the host casing.



Cased-hole water shutoff application

How EXPatch™ Casing Cladding Expands Your Production Options

• In Cased-Hole Completions

EXPatch™ Casing Cladding can blank off perforations in short sections to minimize water inflow. In long sections it can repair damaged or corroded casing.

• In Sand-Control Completions

Used with Baker's EXPress™ Expandable Screens and FORMpac™ Open-Hole Packers, the FORMpac creates a definitive mechanical fluid flow barrier which allows selective blank off of a wellbore section when EXPatch Casing Cladding is placed between the packers.

Features and Benefits

- Maintain maximum ID after clad placement
- Clad can be run in variable lengths to fit application
- Setting mechanism does not rely on integrity of surrounding medium to place clad
- Uses FORMlock™ technology to create anchor/seal



Using the adjustable cone option with the EXPatch™ System results in a wellbore cladding of minimal or zero annulus. Shown here is a slice of 5.5-in. x 6.0-in. cladding expanded in 7.0-in., 23-lb/ft casing, using the adjustable cone to provide metal-to-metal patch with zero annulus.

Cased-Hole Clad Application

In a typical cased-hole water shutoff application, an EXPatch Clad sized to shut off the desired length of perforations is placed in the well with the running/expansion tool at the desired setting depth. The expansion system is activated, which expands the clad to the ID of the casing wall. The running/expansion tool is retrieved from the well.

Cased-Hole EXPatch™ System Specifications for Solid Cone Expansions

EXPatch™ Clad

Parent Casing				Pre-Expansion				Post-Expansion	
OD (in.)	Weight (ft/lb)	Normal ID (in.)	Drift (in.)	Max. Hanger OD (in.)	Csg. Min. ID/Hanger OD (in.)	Clad OD (in.)	Clad ID (in.)	OD (in.)	ID (in.)
9-5/8	40.0	8.835	8.679	8.650	.079	7.625	6.969	8.658	8.002
9-5/8	43.5	8.755	8.599	8.570	.072	7.625	6.969	8.571	7.915
9-5/8	47.0	8.681	8.525	8.495	.067	7.625	6.969	8.491	7.835
9-5/8	53.5	8.535	8.379	8.350	.055	7.625	6.969	8.334	7.678
7-5/8	33.7	6.765	6.640	6.070	.592	6.000	5.500	6.650	6.150
7-5/8	39.0	6.625	6.500	6.070	.440	6.000	5.500	6.500	6.000
7.0	20.0	6.456	6.331	6.070	.311	6.000	5.500	6.381	5.881
7.0	23.0	6.366	6.241	6.070	.214	6.000	5.500	6.241	5.741
7.0	26.0	6.276	6.151	6.070	.117	6.000	5.500	6.151	5.651
7.0	29.0	6.184	6.059	5.763	.325	5.750	5.250	6.059	5.559
7.0	32.0	6.094	5.969	5.763	.227	5.750	5.250	5.969	5.469
5-1/2	14.0	5.012	4.887	4.773	.175	4.500	4.000	4.948	4.448
5-1/2	15.5	4.950	4.825	4.642	.239	4.500	4.000	4.881	4.381
5-1/2	17.0	4.892	4.767	4.642	.177	4.500	4.000	4.819	4.319
5-1/2	20.0*	4.788	4.653	4.642	.054*	4.500	4.000	4.696	4.196

*Due to the small clearance between 5.50-in., 20-lb casing and the EXPatch™ hanger, a long drift assembly simulating the tools being run is required for this casing weight. Casing ID range is 4.696 in. minimum to 4.868 in. maximum with drift of 4.653 in. Hanger OD is 4.642 in.

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