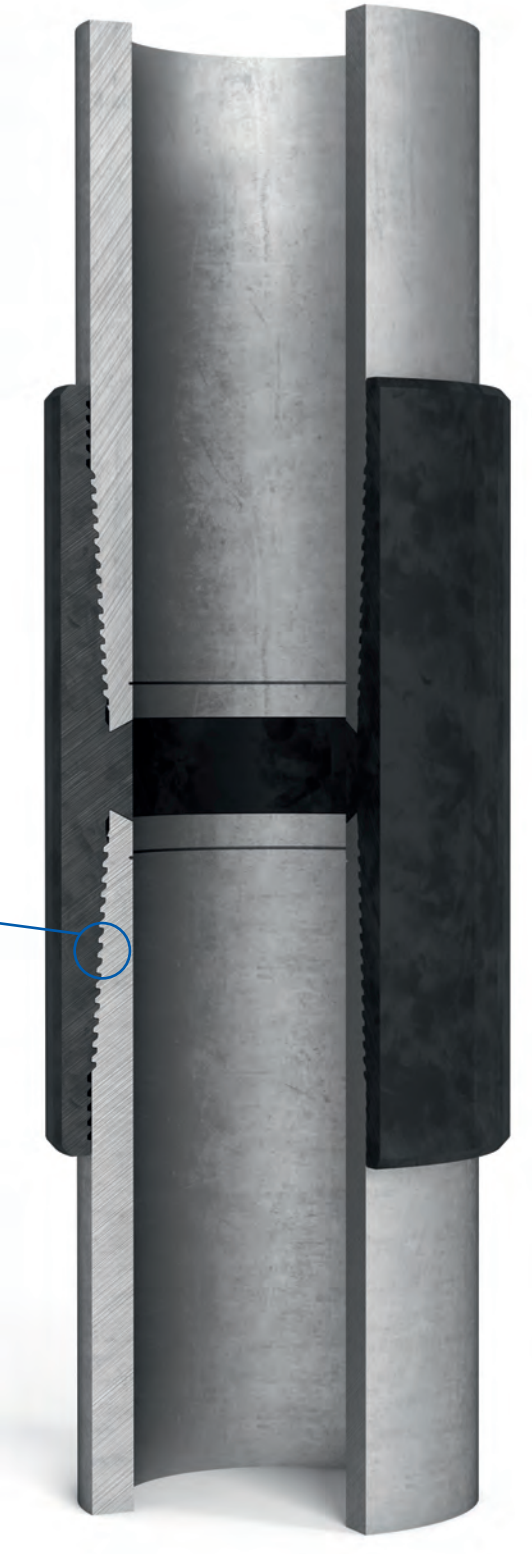
TAGRAS Oilfield Services Holding

TMC GROUP

HIGH STRENGTH HIGHLY SEALED CASING STRING TMC1-SRV2



- ✓ Thread pitch—0.25 in
- ✓ Seal – top – “metal-to-metal”.
- ✓ 4 threads per inch.

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Application

Casing strings TMC1-SRV2 are used to extract high viscosity oil by steam assisted gravity drainage (SAGD) which presupposes drilling two parallel horizontal wells to inject steam into the formation and cracking viscous oil as well as for oil extraction.

Unique design

This joint is characterized by high compression strength, tensile strength, bending strength and corresponds to the CAL IV requirements level which confirms that it can be used in the most severe conditions of oil production. Another special feature of the threaded joint TMC1-SRV2 is its capability of being assembled on the inclined support of the drilling rig.

Advantages of the threaded Joint

- On the pipe, the thread profile is cut and, in addition, a sealing abutment el ement is made which ensures joint geometrical interface of the threaded profile and the sealing unit on tw o toroidal surfaces “metal-to-metal”.
- In the entire interface of the threaded profile and sealing abutment elements, there is no gap between the outside surface of the seal on the pipe nippl e and in the collar bore. Geometry is sealed on the geometrical dimensions of the threaded profile angle interface, the nipple end and the toroidal seal.
- The joint allows considerable increase in the make-up torques and in the bearing capacity of the thr eaded joint as well as increases reliability when combined loads act cumulatively in the form of extension, compression and inner hydraulic pressure.
- The torque value is different from the minimum, optimum, and maximum Mkr. For 9.65×0.35 in. casing - Mkr = 30.978 lbsf-ft.

Strength Group	D	E	L	M
Ultimate tensile strength, σv, ksi, not less	95	99.93	109.9	125
Yield strength σv, ksi not less NOV	54.97 80.06	80.06 109.9	95 123.6	109.9 140
Percentage elongation, δ_5, %, not less	14,3	13,0	12,3	10,8