



PRODUCTION TECHNOLOGIES

FLATPAK
&
ARMORPAK



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FLATPAK

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FlatPak™ is CJS's patented method of encapsulating coiled tubing and electric umbilical strings to convey and actuate down hole pumps for artificial lift. FlatPak features an innovative design incorporating multiple coiled tubing strings or electrical conduits into one uniform body using a high strength thermoplastic jacket. FlatPak's versatility makes it the ideal, low-cost solution for a wide range of operations.



While hydraulic pump systems require multiple strings, FlatPak reduces cost and complexity by combining all tubing conduits into one uniform body. To date, CJS has installed hundreds of thousands of feet of FlatPak into wells ranging from 1,500 to 8,000 feet deep. Historically, FlatPak has conveyed a large variety of pumps while demonstrating exceptional resilience to wear.



ArmorPak is CJS's patent pending "all steel" coiled tubing umbilical intended to install hydraulic and electric pumps to greater true vertical depths at higher reservoir pressure and temperature. ArmorPak is intended for use in pumping and cleanout applications previously validated by conventional coiled tubing or jointed tubing applications.



ArmorPak, like FlatPak, can be configured to include injection capillary conduits along with data transmission cables that are installed in the production tubing side of the umbilical. When a closed loop hydraulic circuit is required to power a downhole pump such as HydraPak PCP or HydraPak HSP, installing a third tube into the hydraulic side of the dual umbilical permits injection and receipt of hydraulic motor fluid through the concentric side to power the pump.



ArmorPak is manufactured in Canada by CJS. CJS incorporates specialized processes and manufactured equipment combining a novel suspension system used in the coiled tubing injector to offer this product line. Additional developments connected to ArmorPak include a specialized stripper and blow out prevention system to facilitate live well ArmorPak installation.



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