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Patent Search

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Abstract:

GRIPPER BLOCK FOR COILED TUBING INJECTOR WITH VARIABLE TUBING SIZE CAPABILITY FOR MOVING ELONGATED OBJECTS A method for a flex layer is positioned b gripper plate and the block body to allow the gripping surface of the gripper plate to move relative to the block body to which it is attached. The gripper block is made of a block body that can be connected to a gripper chain in an injector apparatus, a gripper plate with arcuate and angled gripping surfaces for engaging tubing of various diameters, and the gripper block. Without the requirement for a roller link chain or other chains in addition to the multifunctional links, the chain loops are constructed of multifunctional links that transfer drive while simultaneously serving as carriers for replacement gripper blocks or as the carriers and gripper blocks combined. A gripper assembly for a coiled tubing injector consists of a gripper block with a gripper key and a channel designed to grab a tubular component and a carrier with a chain drive couple to the coiled tubing injector. The technology offers a better gripper system to accommodate coiled tubular injector tubing of various sizes. To provide a lateral surface around the receptacle, a clamp is attached to it. FIG.1

Complete Specification

Description:GRIPPER BLOCK FOR COILED TUBING INJECTOR WITH VARIABLE TUBING SIZE CAPABILITY FOR MOVING ELONGATED OBJECTS

Technical Field

[0001] The embodiments herein generally relate to a method for gripper block for coiled tubing injector with variable tubing size capability for moving elongated objects.

Description of the Related Art

[0002] The method where for many years, various downhole operations, such as completions, washing, circulating, production, production enhancement, cementing, inspecting, and logging, have been carried out using reeled or coiled tubing. The forces required in employing the tubing reel as a winch drum would cause the tubing to rupture. The industry-accepted method is to remove tubing as needed from the reel and pass it through a curved guide arch, or "gooseneck," so that it shares a vertex with the wellbore. It is possible to insert and retrieve coiled tubing from a wellbore that extends through a subterranean clay formation without first building a sophisticated drilling rig or another facility at the well site where the wellbore is located. The links, rollers, and gripper blocks that make up drive chains are typically made of metal. Typically, sprockets powered by motors like reversible hydraulic motors drive these drive chains. The vast bitumen and heavy oil reserves in the Alberta oil sands have been under development, but now everything is moving more quickly.

[0003] The ability to accommodate different tubing diameters without having to change gripper blocks is one of these improvements. Others include designs aimed at increasing the load carrying capacity of gripper blocks, which eliminates or limits scarring and distortion of the tubing caused by gripper block engagement. The stress poses no threat to the integrity of the tubing because it is negligible in contrast to the weight and payload carried by the tubing in the wellbore. The coil tubing system contains a coil tubing injector that is located above the wellbore and has two endless chains on which several gripper assemblies are mounted. Changes in

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