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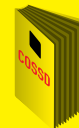
PRODUCT CATALOGUE

for



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ONLY THRU TUBING SOLUTIONS OFFERS THE SPECIALIZED DOWNHOLE EQUIPMENT AND SERVICES TO DELIVER THE RESULTS YOU NEED, RIGHT WHEN YOU NEED THEM.

When it comes to your downhole operations, there's too much on the line to trust just anyone. You need the people who understand the field better—and have the tools designed to outperform the rest. You need the downhole specialists.

TTS focuses on downhole operations exclusively, and delivers specialized service to shale regions across the globe. Our teams work alongside clients to not only plan the best course of action for every well scenario, but also to choose ideal equipment from our inventory of high-performance, proprietary tools. And we do it all 24/7. It's why our customers can expect the most effective solutions done the right way, the first time, every time.

SOLUTIONS

MILLING ASSEMBLY

DESCRIPTION

TTS' rugged milling BHA is designed to withstand the demanding side loading stresses associated with working in horizontal wells. From top to bottom, this tool string was engineered to reach TD.

KEY FEATURES

- +Versatile BHA Components
- +Proprietary Equipment
- +Rugged Design

- +Hydraset Jar
- +Hydraulic Disconnect
- +Circulating Sub
- +XRV-Extended Reach Tool

SYSTEM COMPONENTS

- +Coiled Tubing Connector
- +Back Pressure Valve

- +Titan Motor
- +Carbide Mill

BYPASSING PERFORATING SYSTEM

DESCRIPTION

The patented Bypassing Perforator allows the operation of tools below the perforator, the perforator itself, and then below the perforator again in a single run. This system is typically run with a motor for toe prep operations to provide a means of milling/cleaning to bottom prior to and after perforating.

KEY FEATURES

- +Single Trip Flow-Thru/Perforate/Flow-Thru
- +Coiled Tubing Connector
- +Proven Perforating Technology
- +Back Pressure Valve

SYSTEM COMPONENTS

- +Coiled Tubing Connector
- +Hydraulic Disconnect
- +Circulating Sub
- +XRV-Extended Reach Tool
- +Titan Motor
- +Carbide Mill
- +Back Pressure Valve
- +Hydraset Jar
- +Bypassing Perforator
- +Titan Motor
- +Carbide Mill

ZIPP SYSTEM

DESCRIPTION

The ZIPP System utilizes a specially designed perforator and packer to accomplish a multiple zone completion in a single trip in hole. Once the packer is set at the desired depth, the perforator is activated allowing the abrasive fluids to penetrate the formation in preparation for fracing. While maintaining pressure through the deployed equipment, the fracturing process is initiated through the annulus of the well. This process allows each zone to be isolated, perforated and fraced while all the equipment is still downhole.

KEY FEATURES

- +Single Trip Perforating and Fracturing
- +Multiple Zone Capability
- +Proven Perforating Technology
- +Stage Specific Frac Placement
- +Proven Abrasive Perforating Technology
- +No Additional Clean Out Runs
- +Coiled Tubing or Threaded Pipe Applications

SYSTEM COMPONENTS

- +Coiled Tubing Connector
- +Back Pressure Valve
- +Hydraulic Disconnect
- +ZIPP Perforator
- +XRV-Extended Reach Tool
- +ZIPP Packer

TTS PRODUCTS

IT TAKES THE RIGHT TOOLS TO BRING BETTER PERFORMANCE TO EVERY DOWNHOLE PROJECT. TTS DELIVERS.

Whatever downhole scenario you face, TTS has the products to help get the job done. With the largest on-hand inventory of downhole tools in our market, we have greater access to the products you need on demand. We continuously work to improve upon our existing tool designs so you can be certain that any TTS product used on your project is optimized for the best possible downhole solution.

Along with custom engineering and 24/7 response, we're standing ready with the quality-engineered tools and expert field engineers to keep you on track, every time.

E-WRENCH & E-VISE

Incorporating Bluetooth technology for wireless communication, the E-Wrench & E-Vise provide accurate torque measurement when assembling tools in the shop or in the field. Audible and visual indicators alert users when targeted torque is reached—preventing over and under torquing equipment. E-Wrench and E-Vise are the total torque solution to increase accuracy and reduce overall operational risk.

E-WRENCH

E-VISE

ABRASIVE CUTTING AND PERFORATING TECHNOLOGY

Using an abrasive sand-laden fluid for cutting and perforating operations is a much safer alternative to tools that utilize explosives or chemicals. Precise zone targeting can be achieved with optional orienting capabilities, and there are no minimal standoff requirements for a successful job.

SLOTING TOOL

ABRASIVE PERFORATORS

HIGH VELOCITY ABRASIVE CUTTER

M-50 PACKER

MILLING AND CLEANOUT SERVICES

TTS' rugged downhole motors are built to handle the demanding conditions of horizontal wells. Every motor and mill/bit selection is specifically fit for each job to ensure the greatest chances for success.

PHASE SEPARATOR

2 – BLADED UNDERREAMER

ALL METAL MOTOR

BIT THRUSTER

BITS – TSP, ROLLER CONE, DIAMOND

CARBIDE MILLS

F5 DOWNHOLE MOTOR

TTS PDC BITS

TITAN DOWNHOLE MOTOR

WASH & PIPE SHOES

COILED TUBING CONVEYED SUPPORT TOOLS

TTS has a complete suite of built for purpose support tools designed with horizontal applications in mind. Whether it's standard motor head assembly components or more specific operational tools, we have the right products to get the job done safely and efficiently.

ANTI-ROTATION ROLL-ON CONNECTOR

BACK PRESSURE FLOAT VALVE

BOOT BASKET

BOW SPRING CENTRALIZER

DUAL CIRCULATING SUB

DUAL FLAPPER BACK PRESSURE VALVE

EXTERNAL SLIP TYPE COILED TUBING CONNECTOR

HYDRASET CT JAR

HYDRAULIC DISCONNECT

HYDRAULIC SETTING TOOL

HZ IMPACT JAR

LOCKABLE SWIVEL

MOTOR HEAD ASSEMBLY

NIPPLE LOCATOR

SAFETY UNION

TORQUE THRU SEALED KNUCKLE JOINT

VENTURI JET JUNK BASKET

WEIGHT BAR

XRV PLUS

DIMPLE COILED TUBING CONNECTOR

VIBRATION ISOLATION TOOL

GAUGE CARRIER

RUNNING AND RETRIEVAL SERVICES

No two fishing jobs are alike and our fishing experience is second to none. We have all the tools and knowledge required to retrieve lost or stuck equipment downhole.

CONTINUOUS TUBING OVERSHOT

OVERSHOT PACK-OFF SUB

CUTTING OVERSHOT

PUMP-THRU ROPE SPEAR

DEPLOYMENT BAR

PUMP-THRU WIRE GRAB

GS SPEAR

SERIES 10, 20, 70, 150 OVERSHOTS

JDC OVERSHOT

SNUBBING AND TUBING ACCESSORY EQUIPMENT

TTS carries a large line of equipment for snubbing operations from bit subs to landing profiles and flow control equipment.

PROFILE NIPPLE

RELIEF VALVE

PUMP-OFF BIT SUB

SLIDING SLEEVE BIT SUB

PUMP-OFF CHECK VALVE

SNUBBING BACK PRESSURE VALVE

PUMP-THRU LOCK

WASH TOOL ACCESSORIES

There are several different tools available to help maintain and remove buildup inside a cased well. TTS carries a huge variety of wash nozzles and spinning wash tools to aide in cleaning a well.

BACK PRESSURE VALVE

ROLL-ON CONNECTOR

WASH NOZZLE

SEALED KNUCKLE JOINT

PUMP-OFF WASH NOZZLE

SPINNING WASH TOOL

E-COIL EQUIPMENT

TTS' E-Coil equipment provides both downhole and surface connection points for logging or evaluation equipment run on coiled tubing equipped with cable.

CABLEHEAD

SURFACE BULKHEAD

SERVICES

WE'VE GOT DOWNHOLE OPERATIONS COVERED THROUGH OUR RANGE OF SPECIALIZED SERVICES.

MILLING CLEANOUT SERVICES

TTS offers a wide array of common mills and bits, including specialized designs like Twister Mills and Carbide Insert Mills. In highly deviated wells, the use of an XRV™ (Extended Reach Vibratory Tool) allows access to greater depths by reducing friction lock caused by helical buckling. These, along with a rugged motor designed to handle harsh conditions in horizontal wells, simplify the process of milling plugs, valves, concrete, etc.

ABRASIVE CUTTING AND PERFORATING

Thru Tubing Solutions' Plug and Perf System with orienting capabilities allows operators to set a plug and then divert flow to abrasively perforate in one trip downhole. Because safety is a priority at TTS, we're proud of the fact that our abrasive cutting and perforating jobs are safer than alternatives, like explosives. In addition, our plug and perf systems do not require minimal standoff as with chemical and mechanical devices.

FISHING AND RETRIEVAL SERVICES

The TTS team has performed retrieval operations in virtually every possible scenario. Collapsed coiled tubing can even be fished utilizing a patented Flat Catch Cutting Overshot. In jobs where the possibility of getting stuck is probable, TTS' line of HydraSet™ Jars are invaluable. They are designed to require minimal set-down weights and can be reset hydraulically—making them ideal for repeated operation in horizontal applications.

In addition to the many services available, TTS carries the largest on-hand inventory of coiled tubing and snubbing tools, offering a full line of downhole equipment.