



Productos y Servicios

México 2017



¿Quiénes Somos?

- ROS, es una empresa transnacional cuya función es la integración de empresas internacionales y nacionales con intereses en el mercado del petróleo en México y en el mundo. Nuestro objetivo es innovar el negocio del petróleo a través de alianzas para proporcionar servicios y/o bienes al Cliente consolidando asociaciones con fabricantes y empresas que garanticen precio y calidad.

Nuestra Meta

- Promover el interés de las empresas norteamericanas en México a través de la integración de alianzas con empresas mexicanas, generándoles experiencia y una introducción viable en el mercado para mitigar los riesgos involucrados en los retos actuales.
- Integración de empresas para el desarrollo de proyectos petroleros.
- Integrar criterios de licitación en un plan que promueva el interés entre los miembros del consorcio y se manifieste en productividad.



CONTENIDO

- Aditivos para Fluidos de Perforación.
- Herramientas de Perforación.
- Servicio Integral a BOP's (Surf – Sub. MUX & Convencionales)
- Servicio Integral a Tensionadores de Pistón y Cable.
- Servicio Integral de Seguridad Física a Instalaciones

Aditivos para Fluidos de Perforación.

Somos distribuidores de una gama de productos químicos para la industria petrolera y otros sectores, con distribución y puntos de venta en distintas ciudades en el País, y gracias a esta red de distribución podemos mejorar los precios contra el mercado actual.



PRODUCT BULLETIN

TROL-STAR LV



TROL-STAR LV modified starch is a high-quality, easily mixed dry product designed to control fluid loss without contributing to an increase in viscosity.

APPLICATIONS TROL-STAR LV controls fluid loss and provides viscosity in freshwater, seawater, KCl and salt muds. Forming a thin, resilient, low-permeability filter cake TROL-STAR LV minimizes the potential for differential sticking and the invasion of filtrate/mud solids into permeable formations.

TROL-STAR LV generates less viscosity than regular PAC products. The viscosity generated will depend on the solids concentration, salinity and makeup-water chemistry.

TROL-STAR LV is an anionic starch which will encapsulate exposed clay and shale drill cuttings and the borehole walls. This protective polymer “envelope” inhibits the dispersion of shale cuttings and restricts fluid interactions with exposed shale.

- ADVANTAGES**
- Economical alternative to low viscosity PAC and CMC
 - Easily mixed
 - Effective in low concentrations for controlling fluid loss without viscosity increases
 - Encapsulates shale particles to inhibit swelling and dispersion
 - Resists bacterial attack, requiring no biocides or preservatives
 - Applicable in most water-based mud systems
 - Environmentally acceptable

TYPICAL USE

Typical Amounts of TROL-STAR LV Added to fluid system			
Drilling Application/Desired Results	lb/100 gal	lb/bbl	kg/m ³
Normal fluid loss treatment	1.7 – 5	0.75 – 2	2 – 6
Saltwater systems	2.4 – 7.2	1 – 3	2.85 – 8.6
Add TROL-STAR LV at the hopper or mixing system as required			

TYPICAL PROPERTIES

Physical appearance	White free-flowing powder
Specific gravity	1.5 – 1.6
pH (1% solution)	6.5 – 8.0

PACKAGING TROL-STAR LV is packaged in 50-lb (22.7-kg) multi-wall bags and in 5 gallon (18.9L) buckets

PRODUCT BULLETIN

PAC-STAR DHV



PAC-STAR DHV polyanionic cellulose is a high-quality, readily dispersible water-soluble polymer designed to control fluid loss and increase viscosity in water-base muds.

APPLICATIONS PAC-STAR DHV controls fluid loss and provides viscosity in freshwater and seawater drilling fluid system.

PAC-STAR DHV forms a thin, resilient, low-permeability filter cake minimizing the potential for formation sloughing and the invasion of filtrate and mud solids into permeable formations.

- ADVANTAGES**
- Readily mixing and effective in low concentrations for controlling fluid loss and building viscosity
 - Encapsulates shale particles to inhibit swelling and dispersion
 - Resists bacterial attack, requiring no biocides or preservatives
 - Functions over a wide range of salinity, hardness and pH levels
 - Applicable in all water-base fluids, ranging from low-solids, non-dispersed polymer systems to high-density, dispersed systems

TYPICAL USE

Typical Amounts of PAC-STAR DHV Added to fluid system	
Normal fluid-loss treatment range	0.25 – 1 lb/bbl (0.71 – 2.85 kg/m ³)
PAC-STAR DHV is effective in low concentrations and should be added directly to hopper or feeder. PAC-STAR DHV does not clump or form “fish eyes”	

TYPICAL PROPERTIES

Physical appearance	Beige, free-flowing granules
Specific gravity	1.5 – 1.6
pH (1% solution)	6.5 – 8.0

PACKAGING PAC-STAR DHV is packaged in 50-lb (22.7kg) multi-wall bags

PRODUCT BULLETIN



PAC-STAR DLV

PAC-STAR DHV polyanionic cellulose is a high-quality, readily dispersible water-soluble polymer designed to control fluid loss, with a minimal increase in viscosity in water-base drilling fluids.

APPLICATIONS PAC-STAR DLV is used where fluid loss control is required, without affecting the beneficial rheological properties of the drilling fluid.

PAC-STAR DLV is also effective in flooded reverse drilling where low viscosity fluids are required.

- ADVANTAGES**
- Disperses quickly and produces minimal viscosity increase while providing fluid loss control
 - Encapsulates shale particles to inhibit swelling and dispersion
 - Resists bacterial attack, requiring no biocides or preservatives
 - Functions over a wide range of salinity, hardness and pH levels in most mud systems
 - Effective in low concentrations for controlling fluid loss and building viscosity

TYPICAL USE

Typical Amounts of PAC-STAR DLV Added to fluid system	
Normal fluid-loss treatment range	0.25 – 1 lb/bbl (0.71 – 2.85 kg/m ³)
Saltwater systems	1 – 3 lb/bbl (2.85 – 8.6 kg/m ³)
PAC-STAR DLV can be added quickly at the hopper or mixing system or directly to open tanks having reasonable mixing capability	

TYPICAL PROPERTIES

Physical appearance	Tan, free-flowing powder
Specific gravity	1.5 – 1.6
pH (1% solution)	6.5 – 8.0

PACKAGING PAC-STAR DLV is packaged in 50-lb (22.7kg) multi-wall bags

PRODUCT BULLETIN

SODA ASH



SODA ASH is used to condition and soften make-up water and raise pH, allowing drilling fluid additives to mix more efficiently.

APPLICATIONS SODA ASH treats out hardness due to calcium in make-up water and raise pH

- ADVANTAGES**
- Effective in eliminating calcium ions as insoluble calcium carbonate
 - Provides a favourable environment for the performance of bentonite and polymer products

TYPICAL USE

Typical Amounts of SODA ASH Added to fluid system	
Hardness and pH levels of make-up water should be checked prior to addition of SODA ASH	
SODA ASH should always be added prior to the addition of bentonite or polymer to the fluid system	
SODA ASH should not be added at the same time as other drilling fluid components	
When treating make-up water pH ranges should be maintained between 8.5–9.5	
For best results mix into make-up water at the hopper	1 – 2 lb/100 gallons (1.2 – 2.4 kg/m ³)
Use as required to remove calcium ions but do not add in excess as some polymers begin to hydrolyze over a pH of 10.	

TYPICAL PROPERTIES

Physical appearance	White powder
Bulk density (lb/ft ³)	57 – 65
pH (5% solution)	11.5

PACKAGING SODA ASH is packaged in 50-lb (22.7kg) multi-wall bags

PRODUCT BULLETIN

STAR-DRILL 2000



STAR-DRILL 2000 is a 50 % active synthetic polymer developed for use in freshwater and saltwater base drilling fluids.

STAR-DRILL 2000 is a unique dispersion grade liquid PHPA that resists freeze/thaw degradation and phase separation.

APPLICATIONS STAR-DRILL 2000 viscosifies rapidly and exhibits excellent hole-cleaning characteristics under low shear rates. It provides easy solids deposition in settling pits when used in core drilling.

STAR-DRILL 2000 used alone or with KCL or substitutes will stabilize active shales by encapsulating the drilled cuttings and inhibiting formation swelling.

STAR-DRILL 2000 creates thicker, stronger drill foams improving the cuttings-carrying capacity of the fluid and resisting water inflows.

- ADVANTAGES**
- Concentrated polymer content with longer shelf life than other liquid polymers
 - Stabilizes clay, shale and mudstone formations
 - Compatible with most drilling fluids additives
 - Excellent all-round lubricant
 - Can be used with foam to help stabilize loose formations and improve cuttings carrying
 - Can act as a flocculant

TYPICAL USE

Typical Amounts of STAR-DRILL 2000 Added to fluid system			
Drilling Application/Desired Results	qt/100 gal	pint/bbl	L/m ³
Freshwater / Stabilizing water sensitive formations	0.6	0.6	1.5
Reducing torque & pump pressure / Increasing hole stability	1.0	0.75	2.25
Low-Solids, Non-Dispersed (LSND)	0.3	0.3	0.75
3% KCl drilling system	1.2	1	3
Injection liquid in air/foam application	0.3 – 0.6	0.3 – 0.6	0.75 – 1.5
Flocculant	.01 – .05 ppb (.03 – 0.14 kg/m ³)		

TYPICAL PROPERTIES

Physical appearance	White, liquid dispersion
Viscosity	200 – 500 cP
Specific gravity	1.06 – 1.08
pH (1% solution)	6.5 – 7.5
Flash point	248°F (120°C)

PACKAGING STAR-DRILL 2000 is packaged in 5 gallon (18.9L) buckets

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ROS MEXICO distribuidor autorizado de North Star Fluid Solutions

IMPORTANT: The information contained herein supersedes all previous versions, and is believed to be accurate and reliable. For the most up to date information, please visit www.northstarfluids.com. NorthStar Fluid Solutions accepts no responsibility for the results obtained through the application of this information. All weights are approximate. NorthStar Fluid Solutions reserves the right to update information without notice.

PRODUCT BULLETIN

STAR-DRILL DRY



STAR-DRILL DRY is a high molecular-weight polymer designed for cuttings encapsulation and shale stabilization developed for use in low solids to weighted muds in fresh and salt make-up water.

STAR-DRILL DRY acts as a viscosifier, friction reducer, and flocculant.

APPLICATIONS

Clear-water fluids STAR-DRILL DRY may be used in clear-water, solids-free drilling fluids. STAR-DRILL DRY enhances solids removal by flocculating low-gravity solids and increasing viscosity while providing cuttings encapsulation and improved wellbore stability.

Low-Solids, Non-Dispersed (LSND) fluids In reduced-bentonite systems, STAR-DRILL DRY extends bentonite to increase viscosity, flocculates drill solids for more efficient removal and encapsulates cuttings while improving wellbore stability.

Weighted fluids STAR-DRILL DRY can be used in weighted fluids for cuttings encapsulation, improved wellbore stability, viscosity and improved filter cake integrity.

Sweeps Viscous STAR-DRILL DRY sweeps are effective for periodic hole cleaning to help clear accumulated cuttings and maintain a clean hole.

ADVANTAGES

- Excellent cuttings encapsulation that limits cuttings dispersion
- Improved shale stabilization
- Coats and lubricates solids to aid in preventing balling on the bit, stabilizers and BHA
- Enhances the removal of drill solids

TYPICAL USE

Typical Amounts of STAR-DRILL DRY Added to fluid system			
Drilling Application/Desired Results	lb/100 gal	lb/bbl	kg/m ³
Polymer mud systems	0.6 – 2.4	0.25 – 1	0.71 – 2.85
Mix STAR-DRILL DRY slowly into the active mud system to prevent "fish eyes" or premix at higher concentrations in a separate pit or chemical barrel, then blend into the active mud system			
For sweeps, mix STAR-DRILL DRY directly in the active system at the suction pit or premix a high concentration in a separate pit and wait for the polymer to fully yield before pumping			

TYPICAL PROPERTIES

Physical appearance	White, granular powder
Specific gravity	1.25 – 1.40
pH (1% solution)	7.7
Activity	100%
Nature of charge	Anionic

PACKAGING

STAR-DRILL DRY is packaged in 55-lb (25-kg) multi-wall, paper sacks OR 5 gallon (18.9L) buckets weighing 27.5-lb (12.48-kg)

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PRODUCT BULLETIN

STAR-DRILL LIQUID



STAR-DRILL LIQUID is a high-molecular-weight, anionic liquid polymer designed to provide cuttings encapsulation and shale stabilization, and also acting as a viscosifier, friction reducer and flocculent.

STAR-DRILL LIQUID can be used in both fresh and saline make up water.

APPLICATIONS STAR-DRILL LIQUID polymer systems provide excellent cuttings encapsulation and improved wellbore stability in fresh, weighted, KCl or NaCl enhanced fluids.

Clear-water fluids. STAR-DRILL LIQUID may be used in clear-water, solids-free drilling fluids. It increases viscosity and removes solids by flocculation.

Low-Solids, Non-Dispersed (LSND). In reduced-bentonite fluids, STAR-DRILL LIQUID acts as a bentonite extender to increase viscosity, flocculates drill solids for more efficient removal.

STAR-DRILL LIQUID viscous sweeps are effective for periodic hole cleaning.

- ADVANTAGES**
- Provides excellent cuttings encapsulation and limits cuttings dispersion
 - Provides improved shale stabilization
 - Enhances the removal of drill solids
 - Mixes and yields easily
 - Aids in preventing balling on the bit, stabilizers and bottom-hole assemblie by coating and lubricating solids

TYPICAL USE

Typical Amounts of STAR-DRILL LIQUID Added to fluid system			
Drilling Application/Desired Results	qt/100 gal	pint/bbl	L/m ³
Typical concentrations	1.75 – 7	0.75 – 3	2.1 – 8.5
Freshwater / Stabilizing water sensitive formations	1	1	2.5
Reducing torque & pump pressure / Increasing hole stability	1.5	1.25	3.75
Low-Solids, Non-Dispersed (LSND)	0.5	0.5	1.25
3% KCl drilling system	2	1.75	5
Injection liquid in air/foam application	0.5 – 1	0.5 – 1	1.25 – 2.5

TYPICAL PROPERTIES

Physical appearance	Cream colored liquid
Viscosity (typical)	~ 500 cP
Specific gravity	1.07 – 1.10
pH (1% solution)	8.0 – 9.0
Flash point	>200°F (93.3°C)
Pour point	-20° F (-28.9° C)

PACKAGING STAR-DRILL LIQUID is packaged in 5 gallon (18.9L) buckets

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PRODUCT BULLETIN

STAR-GEL XTRA



STAR GEL XTRA viscosifier is a premium ultra-fine grind bentonite blended with special extenders, producing a product that will yield more than twice as much viscosity as API Wyoming bentonite.

STAR GEL XTRA is an easily mixed bentonite for freshwater and extended bentonite systems.

APPLICATIONS STAR-GEL XTRA is used to rapidly build mud viscosity and provide superior hole cleaning, as well as to help control lost circulation, formation sloughing and promote hole stability in unconsolidated formations. Typical uses are in:

- Potable-water wells
- Mineral exploration (coring and rotary drilling)
- Horizontal directional drilling
- Construction
- Gel-foam air drilling operations

ADVANTAGES

- 93 % passing through 200 mesh grind specification ensures rapid hydration with limited mixing equipment
- Yields more quickly than API-standard bentonite
- Non-toxic and proven suitable for use in drilling potable water wells
- Increased penetration rates due to lower solids content than standard API bentonite systems
- Transportation and storage costs are reduced due to lower treatment requirements as compared to API bentonite

TYPICAL USE

Typical Amounts of STAR-GEL XTRA Added to fluid system			
Drilling Application/Desired Results	lb/100 gal	lb/bbl	kg/m ³
Normal drilling	15 – 25	6 – 11	15 – 30
In gravel or other poorly consolidated formations	25 – 40	12 – 18	35 – 50
Lost-circulation control	35 – 45	15 – 20	40 – 45
Added to freshwater mud to improve hole-cleaning properties, increase hole stability and develop filter cakes	5 – 10	2 – 5	6 – 14

TYPICAL PROPERTIES

Physical appearance	Light tan, gray-green powder
Specific gravity	2.3 – 2.5
Approximate yield	220 bbl/ton

PACKAGING STAR-GEL XTRA is packaged in 50-lb (22.7 kg), multi-wall bags at 70 per pallet

PRODUCT BULLETIN

TROL-STAR HV



TROL- STAR HV is a combination of high-quality, water-soluble bio polymers designed to control fluid loss and increase viscosity in water-base muds.

TROL- STAR HV provides immediate viscosity and fluid loss control in both fresh and saline water.

APPLICATIONS TROL-STAR HV controls fluid loss and provides viscosity in freshwater, seawater, KCl and salt muds.

Forming a thin, resilient, low-permeability filter cake TROL-STAR HV minimizes the potential for differential sticking and the invasion of filtrate/mud solids into permeable formations.

- ADVANTAGES**
- Effective in low concentrations for controlling fluid loss and building viscosity
 - Encapsulates shale particles to inhibit swelling and dispersion
 - Functions over a wide range of salinity, hardness and pH levels
 - Applicable in all water-base fluids, ranging from low-solids, non-dispersed polymer systems to high-density, dispersed systems

TYPICAL USE

Typical Amounts of TROL-STAR HV Added to fluid system			
Drilling Application/Desired Results	lb/100 gal	lb/bbl	kg/m ³
Normal fluid loss treatment	1.2 – 2.5	0.5 – 1	1.5 – 3.0
Add TROL-STAR HV slowly at the hopper or mixing system to prevent clumping or “fish eyes”			
TROL-STAR HV is biodegradable and may require the use of biocides if the drilling fluid will be circulated for long periods.			

TYPICAL PROPERTIES

Physical appearance	White to beige free-flowing powder
Specific gravity	1.5 – 1.6
pH (1% solution)	6.5 – 8.0

PACKAGING TROL-STAR HV is packaged in 50-lb (22.7-kg) multi-wall bags and in 5 gallon (18.9L) buckets

PRODUCT BULLETIN

TROL-STAR LV



TROL-STAR LV modified starch is a high-quality, easily mixed dry product designed to control fluid loss without contributing to an increase in viscosity.

APPLICATIONS TROL-STAR LV controls fluid loss and provides viscosity in freshwater, seawater, KCl and salt muds. Forming a thin, resilient, low-permeability filter cake TROL-STAR LV minimizes the potential for differential sticking and the invasion of filtrate/mud solids into permeable formations.

TROL-STAR LV generates less viscosity than regular PAC products. The viscosity generated will depend on the solids concentration, salinity and makeup-water chemistry.

TROL-STAR LV is an anionic starch which will encapsulate exposed clay and shale drill cuttings and the borehole walls. This protective polymer “envelope” inhibits the dispersion of shale cuttings and restricts fluid interactions with exposed shale.

- ADVANTAGES**
- Economical alternative to low viscosity PAC and CMC
 - Easily mixed
 - Effective in low concentrations for controlling fluid loss without viscosity increases
 - Encapsulates shale particles to inhibit swelling and dispersion
 - Resists bacterial attack, requiring no biocides or preservatives
 - Applicable in most water-based mud systems
 - Environmentally acceptable

TYPICAL USE

Typical Amounts of TROL-STAR LV Added to fluid system			
Drilling Application/Desired Results	lb/100 gal	lb/bbl	kg/m ³
Normal fluid loss treatment	1.7 – 5	0.75 – 2	2 – 6
Saltwater systems	2.4 – 7.2	1 – 3	2.85 – 8.6
Add TROL-STAR LV at the hopper or mixing system as required			

TYPICAL PROPERTIES

Physical appearance	White free-flowing powder
Specific gravity	1.5 – 1.6
pH (1% solution)	6.5 – 8.0

PACKAGING TROL-STAR LV is packaged in 50-lb (22.7-kg) multi-wall bags and in 5 gallon (18.9L) buckets

Herramientas de Perforación.

Introduciéndonos en el mercado de herramientas, contamos con una cantidad de soluciones para las problemáticas mas comunes en la región sur de México.

Ofreciendo no solo herramientas, si no también asistencia técnica para optimizar los recursos de nuestro cliente con el equipo que ofrezca la mejor solución, como:

- Geometría del Pozo
- Eficiencia en Limpieza del Pozo
- Reducción de Torque.
- Etc.



Torque Reduction Sub (TRS)



The Torque and Vibration Reduction (TRS) Subs has been designed by Paradigm Drilling Services as a solution to the problem of excessive torque encountered in short radius high build section horizontal and high angle wells.

The TRS is an integral drill string component consisting of a short one piece mandrel utilising proprietary bearing technology to support a non rotating one piece sleeve. Tools can be positioned between the connections of the drill pipe and spaced appropriately to cover the build section of the wellbore. The use of these tools can reduce drilling torque by significant amounts (25-35%) and is also effective at reducing string transmitted vibration. Through a collaboration of in-house drilling experience and analysis using well-simulation software, Paradigm have determined that the majority of side load (therefore torque loss) encountered in high build wells occurs over the build section itself. Dogleg severity is the most important factor in determining the spacing of the subs, therefore, placing TRS tools as recommended from the well analysis (for example every second or third tool joint) to cover the build section for the duration of the bit run, will significantly reduce torque levels and associated casing wear.

The tools lift the tool joint off the casing wall and provides an engineered bearing within the mandrel so the drill-string rotates freely within the well bore with a minimum effective coefficient of friction over the highest side loading interval, and the minimum of rubbing contact against the casing.

Applications

The TRS's are designed to reduce parasitic torque in high angle and horizontal wells. They can also protect casing when used for Through Tubing Rotary Drilling (TTRD). Paradigm utilises Sysdrill® and when provided with the proposed well trajectory can optimise numbers and placement of TRS's.

Features & Benefits

- Reduces drill string wear and fatigue
- Minimizes torque and drag
- Minimizes casing wear
- Increases ROP
- Dampens vibration
- Enhances drilling efficiency

Cuttings Bed Agitator (CBA)



The PDS Cuttings Bed Agitator (CBA) subs are a derivation of PDS's patented enhanced performance drill pipe design. This technology enhances cuttings bed removal in horizontal and ERD wells and has been used successfully in over 500 ERD wells around the world. The use of a centre gauge ring with Diamond Backed wear protection offers a number of benefits. The smooth surface of the flat diamond discs (25% diamond by weight) reduces torque in the string. It also offers vastly higher wear protection than conventional hard banding. With gauge ring being 25x more wear resistant than Tungsten Carbide.

Many other similar tools have the blades as the largest OD of the tool but this causes them to create a large contact area with similar torque effects as those seen with Stabilisers. In addition when drilling hard formation with chert or conglomerate the blades contacting the formation as the primary wear area leads to high redress / DBR costs. The CBA subs offer protection of the tool joints either side, with the wear being taken on the diamond protected gauge ring.

The CBA's can be spaced out in the string to ensure continuous cuttings transport and are both cost effective and, for remote / international locations the diamond backed wear protection can be replaced by a trained technician without the need for grinders, hard banding machines etc. All that is required is an oxy acetylene torch.

Features / Benefits

- Integral Cuttings Blades design field based on PDS Enhanced Performance Drillpipe
- Proven cuttings bed lifting capability
- Short body length allows subs to be racked back as part of a stand
- One piece body offers high rigidity and better performance in compression
- Enhanced gauge protection
- Cuttings at surface in reduced number of bottoms up
- Increased size of cuttings at surface (+14%)
- No measured increase in ECD's
- Reduction in torque/drag and pick up weight
- Reduce/eliminate wiper trips and backreaming
- Eliminate differential sticking
- Minimal tool wear (+750 rotating hours)

Rimador de Perforación con Revestimiento de Diamante



El "Gopher" o Rimador de Perforación con Aletas Revestidas de Diamante BDR (Diamond Bladed Drilling Reamer - BDR) ha sido diseñado para ofrecer muchos de los beneficios de desempeño de los escariadores de rodillos - BDR ha sido diseñado para ofrecer muchos de los beneficios de desempeño de los escariadores de rodillos - "estabilización de punto" de bajo torque (75-80% de menor contacto con la superficie comparado con los estabilizadores convencionales), remoción de mini severidades de pata de perro o recortes de pequeño tamaño y reduce Torque/stick-slip, a través del uso de la tecnología de insertos de diamante 'Domed Diamond Insert' (DDI). El BDR logra estos objetivos al mismo tiempo que evita los riesgos de fallas en los rodillos y flexión debidos al desgaste y la consecuente pérdida de los rodillos lo cual ha causado que muchos operadores no utilicen dichos escariadores.

El BDR emplea DDIs diseñados específicamente para esta aplicación y se nos provee por parte de los mejores proveedores de accesorios de corte y de perforación con diamante. El material DDI premium utilizado en el BDR maximiza la eficiencia de corte y aumenta en gran medida la longevidad de la herramienta.

Debido a la composición de la matriz de diamantes exclusiva de los DDIs, estos son más resistentes al daño y a la rotura, comparados con los Insertos de Carburo de Tungsteno (TCI) o PDC convencionales. Los insertos del DDI no presentan efecto magnético y pueden ser instalados tanto en cuerpos de acero como en cuerpos no magnéticos.

Características y Beneficios

El BDR generalmente se provee en una configuración basada en Sarta; sin embargo, también están disponibles versiones que corren directamente por arriba de la barrena para proporcionar soporte de escariado radial y lineal.

El área de contacto de escariado del BDR es al menos 50% mayor que el ofrecido por las herramientas rimadoras de rodillos líderes del mercado, asegurando la eficiente remoción de camas de recorte, mejorando dramáticamente la estabilización, optimizando y suavizando la forma del agujero y, debido a la geometría de las herramientas Cerca de la Barrena y En la Barrena, proporcionando la máxima exactitud direccional.

La Sarta BDR puede ser colocada en la parte superior del ensamblaje BHA para proporcionar capacidades de escariado normal y revertido en caso de requerirse al sacar del agujero.

Los canales de bypass de fluidos han sido diseñados para proporcionar la máxima área de flujo y activar el soporte de limpieza del agujero en la capacidad de escariado, a través de modificaciones de geometría que mejoran la entrega de velocidad y turbulencia a lo largo de la aleta para asegurar así una limpieza del agujero consistente en todo momento.

Servicio Integral a BOP's

(Surf-Sub. MUX & Convencionales)

En ROS, entendemos el impacto económico y operacional que representa el área de Prevención de Brotes.

Es por eso que gracias al personal capacitado ofrecemos un servicio Integral para ofrecer al cliente la seguridad de operar con un equipo critico en condiciones optimas y de calidad, garantizando "CERO DOWNTIME" y la seguridad de la instalación.

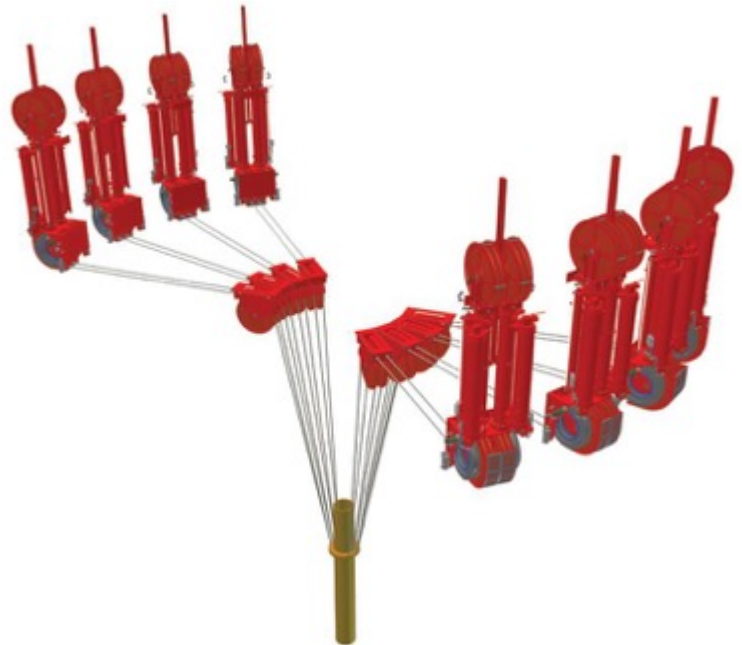


Servicios

- Asesoría para la Optimización de procedimientos operativos para la reducción de DOWNTIME.
- Elaboración de Procedimientos Operativos y de Manutención a la Medida, con enfoque de seguridad.
- Comisionamiento durante adquisición, reparaciones mayores, etc.
- Evaluación de Riesgos y Administración de bienes.
- Elaboración, Supervisión y Asesoría de Proyectos de Mantenimiento en Astilleros.
- Servicio de Manutención Preventiva y de reparación de los equipos de Prevención de Brotes (En Sitio o en Taller).
- Servicio Integral de Mantenimiento y Reparación:
 - ✓ Control y Administración de Inventario.
 - ✓ Proveduría de Material de Reparación
 - ✓ Planes de Mantenimiento conforme a API STD53.
 - ✓ Asesoría 24 horas.
 - ✓ Supervisión y/o Ejecución de pruebas Funcionales e hidrostáticas conforme a API STD 53.
 - ✓ Elaboración de Estadística de Fallas.
- Capacitación a personal operativo para el Mantenimiento y Operación de Preventores y equipos relacionados a la operación del mismo.
 - Hydril, Shaffer y/o Cameron.

Servicio Integral a Tensionadores de Pistón y Cable

Al igual que los Preventores, ofrecemos una serie de servicios para el correcto funcionamiento de los tensionadores.



SERVICIOS

- Capacitación a personal operativo para el Mantenimiento y Operación de Preventores y equipos relacionados a la operación del mismo.
- Asesoría para la Optimización de procedimientos operativos para la reducción de DOWNTIME.
- Elaboración de Procedimientos Operativos y de Manutención a la Medida, con enfoque de seguridad.
- Comisionamiento durante adquisición, reparaciones mayores, etc.
- Evaluación de Riesgos y Administración de bienes.
- Elaboración, Supervisión y Asesoría de Proyectos de Mantenimiento en Astilleros.
- Servicio de Manutención Preventiva y de reparación de los (En Sitio o en Taller).
- Servicio Integral de Mantenimiento y Reparación:
 - ✓ Control y Administración de Inventario.
 - ✓ Proveeduría de Material de Reparación
 - ✓ Planes de Mantenimiento conforme a PROVEEDOR.
 - ✓ Asesoría 24 horas.
 - ✓ Supervisión y/o Ejecución de pruebas Funcionales e hidrostáticas conforme a PROVEEDOR.
 - ✓ Monitoreo Tonelada Milla

Servicio Integral de Seguridad Física a Instalaciones.

Uno de los retos mas fuertes hoy en día es mantener nuestras instalaciones seguras para garantizar una operación continua durante 24 horas y brindar tranquilidad al personal laborando en instalaciones remotas.

Hoy en día, el CCTV es solamente una pieza de un servicio que puede o no ofrecer una solución a la intrusión y vandalismo no deseado.

Es por eso que en ROS, ofrecemos una Solución Integral con filosofía de inteligencia militar optimizando así el uso de los sistemas tecnológicos de punta en el mercado.



Soluciones:

- Evaluación de Vulnerabilidades.
- Creación de Concepto de Seguridad.
- Suministro e Integración de tecnologías de Seguridad.
- Central de Control y Monitoreo.
- Elaboración de Protocolos para Respuesta a Emergencia.
- Capacitación a personal.



CONTACTO

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