




Wise Petrochemical Solutions & Development

WPSD a provider of special chemicals which are designed for Oil & Gas industry covering a wide range in upstream and downstream used in drilling operation mud, drag reducers for hydrocarbons transfer.

WPS as an exclusive partner of Norwegian Well Innovation (WI) provides special services including Monobore completion for oil and gas wells and special design wireline tractor for deep hole services



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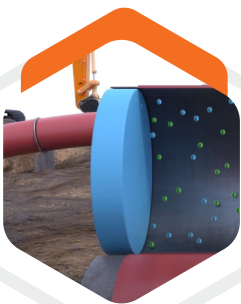
Asphaltene Dissolver

WPSD's Asphaltene Dissolver (WPS_021) is an oil soluble, water dispersible mixture of surface active ingredients, co-solvent, dispersant and activated aromatic solvents, especially designed to disperse and prevent difficult Asphaltene deposits.



Asphaltene Inhibitor

WPSD's Asphaltene inhibitor (WPS_023) is a powerful special asphaltene inhibitor/dispersant which is a complex formulation of special complex organic based compositions in solvents engineered to avoid asphaltene agglomeration and deposition. WPS_023 is designed to prevent asphaltene deposition from downhole equipment, flow lines, dehydrators and other surface production facilities. In the petroleum industry, asphaltenes are known to form deposits which can clog well formations, flow lines, and surface facilities. Changes in pressure, temperature and shear rate may cause asphaltene precipitation and deposition. Asphaltenes can build up in many places along the production system, from inside the structures to pumps, tubing, wellbores, safety valves and etc. Asphaltene deposits can cause production problems for field operations and may even cause safety issues.



Corrosion Inhibitor

WPSD's corrosion inhibitor (WPS_011) aid is an organic acid. This aid is a very heavy material and is not used too often in HCL at temperatures below 200°F. It is not a stand-alone acid corrosion inhibitor; and it is used with HCL, HCL-HF, and HCL-Acetic acids. Reductions in corrosion can be in the range of 40 to 90%, depending on the type of metal exposed. Corrosion intensifier may be used with corrosion inhibitor to limit high temperature corrosion rates on J_55, N_13, .80 Cr and coiled tubing. This aid is used to inhibit corrosion for the temperatures up to 300°F. The recommended concentration is 60-10 gal/Mgal of aid in HCL acid.



Demulsifier

WPSD's Demulsifier (WPS_008) is a totally organic liquid formulation of surfactants and dispersants in a petroleum solvent, for the demulsification of water in oil and oil in water, capable of performance at room temperature, but with improved speed and percentage of oil removed when applied at temperatures near 65 deg. C (150 deg. F). This Product destabilizes the oilwater interface that surrounds each water particle in the emulsion, replaces the emulsifier molecules (if any), and allows the water to coalesce. Our Product is a completely combustible, non-abrasive, non-ash-forming treatment which will improve the quality of the fuel it is added to.



H2S Scavenger

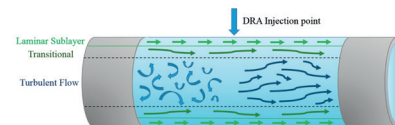
WPSD's H2S scavenger (WPS_030) is a proven inhibitor aid for use in hydrochloric acid in treating sour wells which contain hydrogen sulfide gas. H2S may be present in stimulation fluids due to the dissolution of sulfide scale (mainly Iron Sulfide) or contact with sour well fluids. This chemical is a sulfide complexing agent which is designed to control sulfide cracking of tubular and precipitation of free sulfur when acidizing oil and gas wells that contain hydrogen sulfide or iron sulfide deposits. It is often used in conjunction with other iron controlling agents. Normal concentration range for this additive is 0.5 to 3.0 volume percent (5 to 30 gallons per 1000 gallons acid).



Chemicals Products



Drag Reducing Agent



WPSD's DRA (WPS_003) is injected in crude oil and refined products pipelines, in order to reduce frictional pressure, drop followed by throughput increase. DRA is an excellent alternative for increasing the capacity of existing pipelines. Frictional pressure drop reduction due to DRA injection increases operational safety of all pipelines, especially old ones. It also leads to decrease in energy consumption and maintenance costs of equipment such as pumps and turbines. Some exclusive reasons and advantages of DRA implementation are described as bellow:

1. Increase the pipeline's transportation capacity by reducing frictional pressure drop.
2. In older pipelines or pipelines affected by corrosion attacks, where the pipeline operator wishes to keep the throughput constant, but there is a danger of the pipeline burst, the operating pressure can be reduced to a safe level without decrease throughput by the use of DRA.
3. The oil industry is volatile and subject to increases and decreases in demand for crude oil, therefore, the only sensible alternative today to a permanent installation of new pipelines and/ or loops is to use DRA. The DRA and its injection system can be installed quickly to increase throughput of the existing pipeline. It can be also be stopped when throughput requirements fall.
4. DRA usage will reduce demurrage cost through facilitating refinery loading and unloading operation.
5. DRA injection in pipelines lead to reduction in capital costs and maintenance costs by switching off pumps and pump stations, eliminating pipeline loops, obviating the need to install new pipelines and etc.
6. Considering the effect of DRA injection before designing and constructing pipelines will reduce the pipeline diameter and thickness and in result investment costs and energy consumption

Loss Circulation Material

WPSD' Loss circulation material (WPS_042 , WPS_045, WPS_047 , WPS_049) : WPS_042 is a highly effective non invasive fluid designed to address issue of reservoir damage and wellbore instability and its available in three sizes, fine, medium and coarse. It reduces dynamic filtration loss, prevents hole instability, prevents in permeability impairment and increases well productivity. Mud from the previous section containing WPS_042 can be used to drill production zones without worrying about pore throat blocking due to dispersed solid WPS_045 is a blend of cellulose fibers and flaky lost circulation materials used in water_base, synthetic/oil_base and work over fluids improving borehole stability by preventing seepage loss and other losses. It enhances particle size distribution and seals depleted sands with minimal adverse effects on rheology and filtration control properties. WPS_045 are strong and resilient; they will not readily disintegrate during circulation. WPS_045 products are available in three different size ranges namely: Fine, Medium, Coarse WPS_047 is a quick performing blend of hard cellulose fibers, strong flaky Lost Circulation Materials and binding synthetic polymers. This Product differ itself from conventional LCMs by forming high strength structure inside the fractures. WPS_047 not only cure the severe lost circulation but also strengthen the loss zone which enable further drilling operation up to target depth of section.

MONOBORE D.H.C SYSTEM PRODUCTS

WPSD's company is the exclusive sales, marketing and operation agent of all Well Innovation AS company's products in the GCC. Well Innovation AS is an independent technology development and investment company, focusing on the energy sector.

Since the start..up in 2005, Well Innovation has been involved in development and commercialization of over 200 technology projects.

Current available technologies:

- * Sucker Rod Sensor :
- * Production optimization and reduced maintenance
- * Liner Hanger systems :
- * Extreme environment 7" Liner system (ISO V14310 0)
- * Field proven in >40 wells in the Middle East
- * 14" Liner system ready for second field testing (ISO V14310 0)
- * Plug Valve:
- * Pending field testing in the Middle East

Well Innovation is developing a state of the art "Cased Hole Intervention Tool Package" building on our competence gained through years of developing Downhole Wireline Tools. The patented package solves the common challenges associated with wireline conveyance and reduces NPT.



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**We are specialists in design
and commercialization of
your missing piece**

