



Artificial Lift Services

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# MudShark™ Extended Dip Tube BHA Solids Separator

## USE IN WELLS TO:

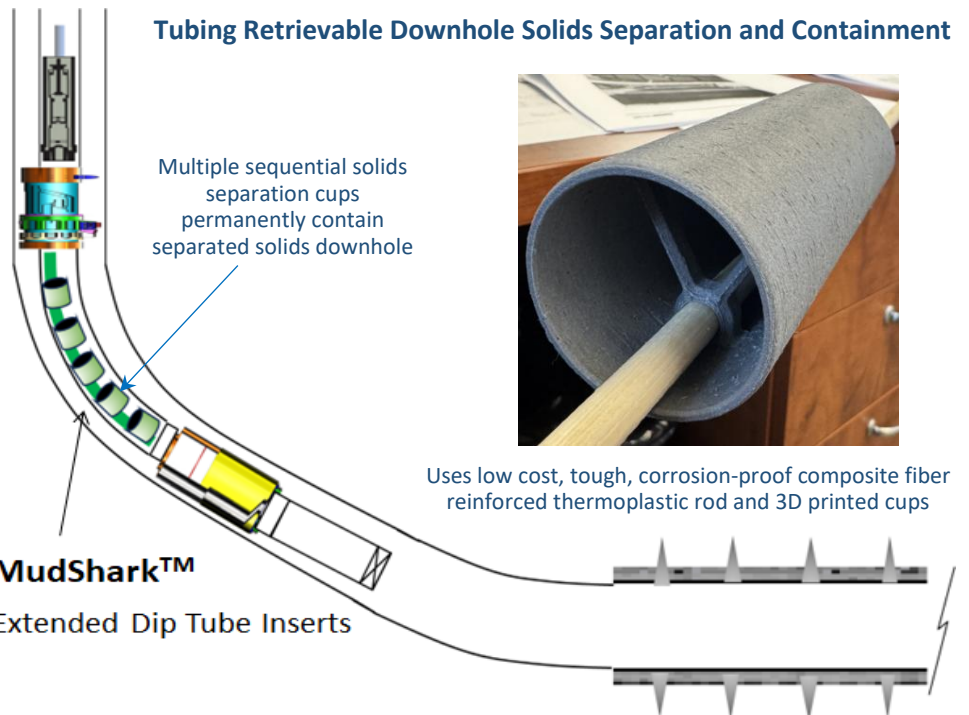
- Maximize sucker rod pumping performance with solids laden produced fluids and using **Extended Dip Tube BHA's**
- Use in combination with **WhaleShark™** gas separator, **SharkNET™** self-cleaning solids filtering system, **SharkGUT™** horizontal solids separator, **SandShark™** pump solids fallback protection system, **SharkTAC™** tubing anchor and **Q2-Flow™+SandTwister™** pump
- Maximize sucker rod pump and rod run-life and reliability
- Reduce solids related stuck pump risks and to avoid pump start-up issues after a shut down

## VALUE FEATURES:

- Patent pending design that uniquely “busts up” solids slugs and then separates solids
- Protects the sucker rod pump from damaging solids
- Engineered for Extended Dip Tube BHA systems
- Innovative eccentric fiber reinforced thermoplastic cups, mounted on a 3/8” fiber reinforced thermoplastic rod, separate, capture and retain solids “out of harm’s way”
- Sucker rod pumping cyclical flow improves separation efficiency (during the downstroke when the standing valve is closed, solids settle into the cups)
- Minimal pressure loss across cups (28 cups per insert)
- Multiple **MudShark™** inserts can be run by inserting one into each Extended Dip Tube tubing joint for increasing the downhole solids containment capacity
- Optional reverse flow control valve

## MudShark™ Insert Specifications

Series Model Name	20	25	30
For Tubing Size, in [mm]	2-3/8 [60.3]	2-7/8 [73.0]	3.5 [88.9]
Cup Outside Diameter, in [mm]	1.2 [30.5]	1.7 [43.2]	2.0 [50.8]
Length, feet [m]	30.0 [9.1]	30.0 [9.1]	30.0 [9.1]
Temperature Rating, °F [°C]	280 [138]	280 [138]	280 [138]
Tensile Rating, lbf [daN]	10,000 [4,450]	10,000 [4,450]	10,000 [4,450]
Solids Capacity/Insert, bbls [m³]	0.06 [0.01]	0.1 [0.014]	0.13 [0.02]
Material	Nylon 6-6 thermoplastic, glass fiber filled		
Surface Treatment	None		



A fully engineered, multi-staged sequential solids separation system designed to safeguard sucker rod pumps for when using **Extended Dip Tube BHA** configurations. The **MudShark™** delivers the industry’s highest-performance downhole solution for mitigating risks from problematic produced solids, significantly extending pump run life—and it’s the only solids separation system compatible with **Extended Dip Tube BHA** setups. They simply insert into standard tubing joints and hang off in the tubing coupling (using the API gap between pins).

This innovative, one-of-a-kind low risk system actively separates, isolates and traps solids that bypass a downhole gas separator. Single-stage solids separators (e.g., desanders) frequently underperform in gassy, slugging flow regimes, especially with concentrated solids slugs or at deviated angles. In contrast, multi-stage sequential separation provides superior efficiency and effectiveness using the entire length of the Extended Dip Tube tubing interval.

Fiber-reinforced thermoplastics enable cost-effective manufacturing and complete corrosion resistance. Their ultra-high strength supports greater separation surface area and increased downhole solids containment capacity.