



Drilling Bead Recovery
Solid Lubricant Separation



Basic Description

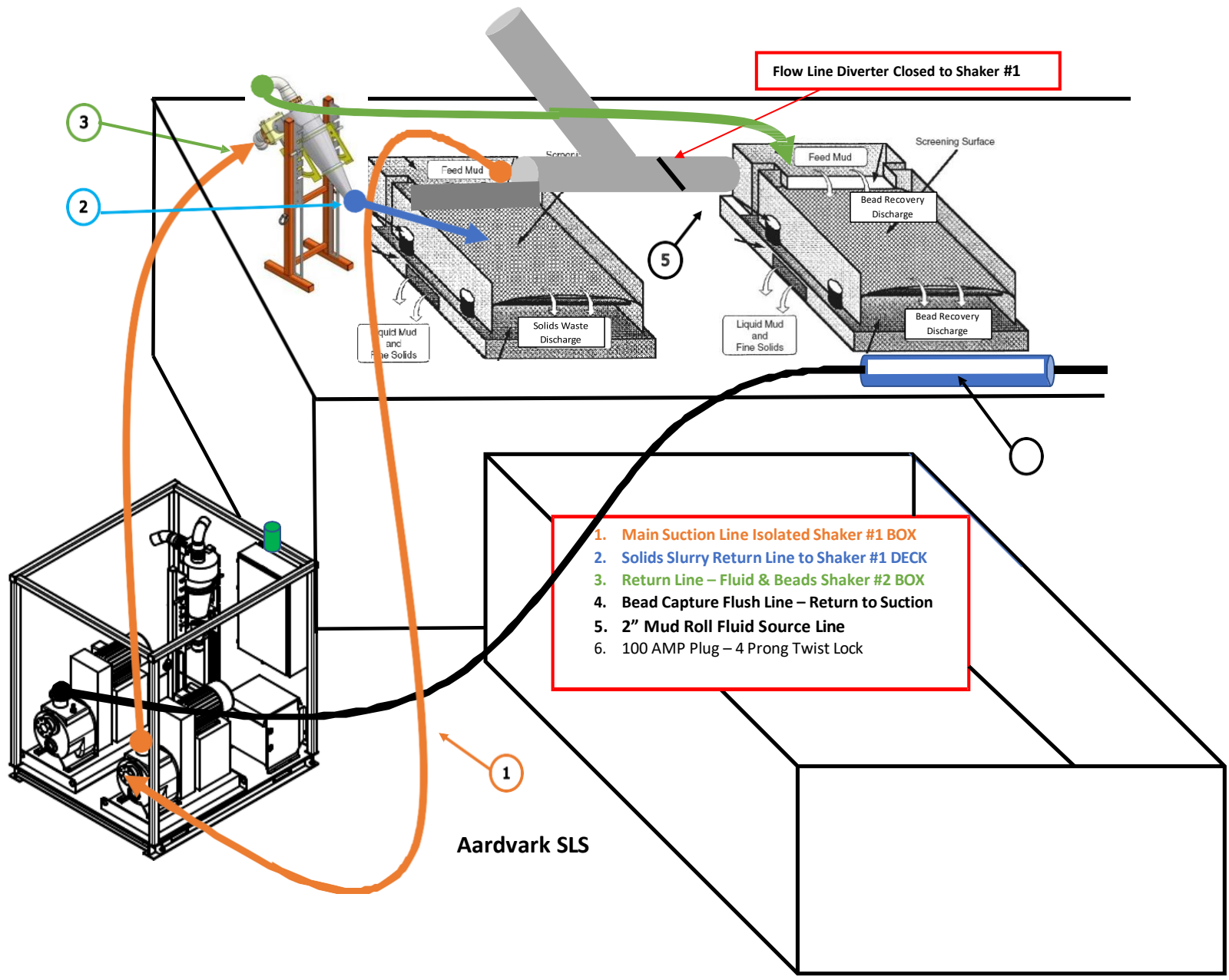
- Real Time Processing “**BEFORE**” solids control takes place
- Utilizes existing rig equipment (shakers)
- OBM, WBM, Brines
- Fasy Setup and teardown
- Automated Fluid Control & Pumping Systems
- Intelligent Variable Speed Performance Control
- Operational/Fault Indicating Lights
- Default Spill Control & Automated Safety Controls
- Small Operational Footprint
- Fast Setup & Teardown – Component Placement System
- Ease of Use ON/OFF Simplicity
- Small Footprint



How it works

- Lubricating beads are added to the system at suction compartment and pumped down hole.
- The flowline volume to header box is isolated, before entering onto shaker beds.
- Full volume of drilling fluid is captured and is sent to the hydrocyclone(s) for processing.
- The different densities of the lubricating beads and drilled solids allow them to be separated by the hydrocyclone(s).
- The "overflow" retains the beads along with the "clean" fluid which is then returned to to a single shaker to remove the lubricating beads.
- The lubricating beads are then collected off the end of the shaker into a small tank where they are slurried and pumped back to the suction compartment where they are then sent back downhole.
- The "underflow" stream retains the drill cuttings down to approximately 40 microns.
- The "underflow" of mixed solids and fluid is returned directly onto the other shakers for solids removal and fluid collection back to the active system.
- With this system all fluids are processed normally by the shakers and subsequent solids control equipment.

SLS Basic Setup



Isolated Suction & Volume Control

- Flowline header box is isolated and not allowed to flow onto shaker.
- Float probes are utilized for communication & level control between rig pumps and bead recovery pumps.
- Suction inlets are inserted below fluid level.
- Gas detection devices are unaffected.



Control Panel



Hydrocyclone Stand

Bead Return Tank

