

# Flush-Bys

## Fact Sheet

Flush-bys typically repair sanded wells. The units are designed to pull free a progressive cavity pump or to unseat an insert pump. This design allows the unit to flush fluid down the tubing and clean any sand or waxes from the tubing intake and perforations. The pump can then be seated or landed, and the well put back into production.

### Problem—The Solids

When an oil well is completed, perforations are shot through the casing and into the producing zone. Below the perforation is the cellar—the space from the perforations to the bottom of the well. This space allows for buildup of solids to settle from the hydrocarbons to the bottom of the well without affecting the efficiency of the pump. Eventually the cellar becomes full. These solids will start to plug the tubing intake and drastically affect pump efficiency, if there is any efficiency at all.

### Solution—The Flush-By

Clean Harbors flush-by services improve well production:

- Convenient for maintenance to the well head such as repairing or changing drive units, stuffing boxes, packing leaks, polish rods, and broken rods
- Efficient when it comes to troubleshooting downhole problems such as damaged pumps or tubing strings
- Work well to assist with coil tubing cleanouts, hot oiling operations, and certain continuous rod operations with gripper assist units
- Easily space out pumps exactly to the recommended pump spacing to ensure maximum pump efficiency (due to their sensitive weight indicators)
- Capable of pulling polish rods up to 50 feet in length
- Capable of working on conventional and slant wells
- Flush wells, loads, and circulation work

Our fleet of flush-bys includes tandem tri-drives, tandem tandems, and tandems. Value-added features include units equipped with man-rider winch personnel hoisting equipment as well as two rod BOPs—one for stripping and one for well control. With access to a diverse range of tools, we can handle all of your flush-by needs, saving you time and money by quickly returning your wells to full pumping capacity.



## Health & Safety is Clean Harbors #1 Priority.

Health & Safety is Clean Harbors' #1 priority —companywide. Employees at all levels of the company share this philosophy and are committed to ensuring our safety goals are met on your sites and ours.

