

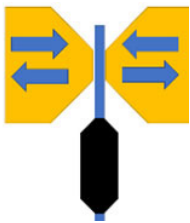
# Spring Assisted Sucker Rod Stripper (SRS)

## HIGHLIGHTS

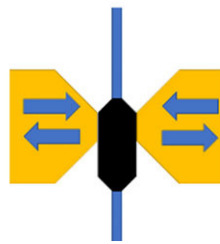
- Brand New Patent Pending Design
- Ability to Retro-fit existing Double E Rod wiping tables
- USA designed and manufactured
- Ability to wipe guided rods without damaging rod guides or wiping rubbers
- Enables operators to run in hole faster by centralizing rod string through the table



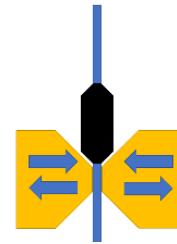
## PULLING RODS: OPERATIONAL BENEFITS



- Stripper rubber wipes the sucker rod OD clean like the traditional Double E SRS when pulling rods out of the well

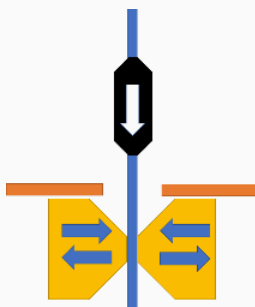


- When a rod guide comes through the table, the wiping rubbers bounce outward, wiping the OD of the rod guide as it passes through the table
- The spring force is easily and quickly adjustable to operators' preference



- This design will pro-long the life of rod stripper rubbers and enable operators to wipe guided rods with ease

## RUNNING RODS: OPERATIONAL BENEFITS



- When running guided rods into the well, most operators slow down to prevent the edge of the rod guides from crashing into the top of the table

- With this new design, the guided rods are centralized by the spring loaded wiping rubbers and allow the operator to run in hole much quicker without worrying about the rod guide making contact with the table

# Case History:

## Successful Field Trial of Spring Assisted SRS in Rod Pulling Applications

### BACKGROUND



Our company initiated a field trial in collaboration with McCumber Well Service in Thermopolis, WY to assess the effectiveness of a newly developed spring-assisted Sucker Rod Stripper (SRS) in rod pulling applications for oil and gas wells

equipped with pump jacks. The primary focus was on improving the efficiency and cleanliness of the rod pulling process, particularly in dealing with oil and paraffin residues on the rods.

### OBJECTIVE

The objective of the field trial was to evaluate the performance of the spring-assisted SRS in wiping rods of oil and paraffin during both the rod pulling and reinstallation processes, with special attention given to its impact on sucker rods that had rod guides.

### FIELD TRIAL DETAILS

The field trial was conducted in a working oil and gas well where rod pulling and reinstallation operations were part of the regular maintenance routine. The spring-assisted SRS was integrated into the existing rod pulling system for comprehensive testing.

### OPERATOR FEEDBACK

The operator expressed extremely high satisfaction with the performance of the spring-assisted SRS, highlighting its substantial benefits in terms of cleanliness, safety, and operational speed. The SRS's impact on rod guide handling was particularly praised, as it not only reduced wear on equipment but also contributed to a more efficient and streamlined workflow.

### KEY FINDINGS

- 1. Effective Cleaning of Rods:** The spring-assisted SRS demonstrated exceptional effectiveness in wiping the rods clean of oil and paraffin residues when running rod guides.
- 2. Efficient Handling of Rod Guides:** The operator reported that the spring-assisted SRS significantly improved the handling of the sucker rods guides. During the unscrewing of rods, leaving the SRS activated prevented oil and paraffin from splattering, keeping both the equipment and personnel cleaner. Most operators pull guided rods wet without wiping them due to the damage the guided rods cause to the wiping rubbers.
- 3. Centralization of Rods:** The spring-assisted SRS proved invaluable when running guided rods back into the well. It facilitated the centralization of rods, preventing the rod guides from crashing into the top opening of the SRS. This not only enhanced safety but also reduced the wear and tear on the brake system of the rig.
- 4. Enhanced Operational Speed:** The operator noted a significant increase in operational speed, particularly when dealing with guided rods. The ability to keep the spring-assisted SRS activated while running in hole for faster rod movement, reducing downtime and improving overall efficiency.

**“ THAT’S AWESOME! ”**  
**Rick B**  
 Operations Manager, McCumber

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