



### Wamco Spacers Recommended Procedures:

Production is generally enhanced and gas interference discouraged by spacing the pump as near bottom as possible, without actually tagging/tapping. The WAMCO system is designed to accomplish this fine adjustment in a truly SAFE & EFFICIENT manner.

- Hang the rods off so that the down hole pump just barely tags/taps bottom, with no Spacer(s) installed. Stop the Pump Jack.
- Set and tighten the Top Rod Clamp.
- Measure up approx. 4” above the Stuffing Box and set your Lower/Safety Rod Clamp
- Operate the Pump Jack to raise the Rods off the stuffing box leaving sufficient space to install the Suitcase, and stop the Pump Jack.
- Install a Wamco Suitcase of a height approx. 4” higher than the total height of the Spacer(s) you intend to install on the Carrier Bar. Refer to the Suitcase Procedures during this operation.
- With the Suitcase in place, lower the rods and stop the Pump Jack, creating space between the Carrier Bar and the Top Rod Clamp to add your Wamco Spacers.
- Using the Wamco Handling Tool, install the Spacer(s) that you estimate are required to hold the pump off bottom when the fluids have been pumped down to their normal operating levels. Please refer to the basic Spacer recommendations below, for a guideline.
- The Spacers are always placed directly below the Top Rod Clamp and above any Rod Rotators and/or Load Cells installed with the opening on the Spacer at 90 degrees to the Rod Clamp bolts.
- Slowly raise the rod string to put a slight load on the spacers to keep the Wamco Spacer from moving while you install the Detent Pin into the Spacer.
- Ensure there is enough clearance between the Upper Rod Clamp and the Horses Head, when the Rods are raised. If not, the Spacer height may have to be reduced, or the cables lengthened.
- Operate the Pump Jack to raise the Rods.
- Stop the Pump Jack when you have enough clearance to remove the Suitcase. Remove the Suitcase and operate the Pump Jack, leaving your lower / Safety rod clamp in place.

Once the rods have been hung off in this manner, you can adjust the positioning of your pump from tagging, from the ground by using the Wamco Handling Tool and simply adding, removing, or changing the height/number of the Spacer(s).

## Wamco Spacers Recommended Procedures Con't:

With Wamco Polished Rod Spacers installed, you may easily and safely re-position your pump from the ground without moving clamps again. Some example scenarios in which you may adjust your spacing are as follows:

- ✓ Rod Stretch
- ✓ Adding “Jewelry” such as a Load cell rod rotator etc.
- ✓ Tapping bottom
- ✓ Adjusting height to operate above tap / tag
- ✓ Changes in fluid levels

Some Operators in very “gassy” fields consider it a cost effective to leave their wells “lightly tagging” all the time. After installing the Wamco Polished Rod Spacer System, the process of tagging bottom was made simple and safe enough for them to change their practice and operate off tap / tag.

Several factors affect the total height of the Spacer package required on an individual well. A good starting height, based on the API pumping unit size and average stroke, speed, pump size and rod string design, is recommended below:

- |                 |                                 |
|-----------------|---------------------------------|
| ➤ 40 or smaller | 2 – 3 inches                    |
| ➤ 57 – 80       | 2 – 4 inches                    |
| ➤ 114 – 160     | 4 – 8 inches (1 or 2 Spacers)   |
| ➤ 228 – 456     | 8 – 12 inches (2 or 3 Spacers)  |
| ➤ 640 – 912     | 10 – 18 inches (2 or 3 Spacers) |
| ➤ 912 – 1280    | 12 – 24 inches (2 to 4 Spacers) |

Space between the carrier bar and the bottom of the horse's head, when at the top of the stroke is the controlling factor determining the maximum total height of Wamco Spacers that can be installed on **any** pumping unit.

For pumping units API size 228 and larger 4" and 6" Spacers are considered "standard" and will satisfy most requirements on all. However due to changes in fluid level, 2 or more Spacers are generally recommended. Consider a configuration which will allow the most flexibility for adjusting or “tuning” your production.

The Wamco Spacer model numbering system is quite simple:

- Model W6150 denotes a 6" height, for use on a 150 (1 ½") polished rod
- Model W4125 denotes a 4" height, for use on a 125 (1 ¼") polished rod
- Model W3175 denotes a 3" height, for use on a 175 (1 ¾") polished rod

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