

HHS PACKING REPLACEMENT

1. Identify tubing head bottom connection and tubing sizes
2. Identify cable size and style. i.e., #2 Round, 4 Flat.
3. Turn off all power to the wellhead submersible pump according to the company lock out/tag out policy.
4. Bleed off all annulus pressure between surface casing and production tubing or kill the well with water.
5. Slowly loosen and remove the (8) 3/4" X 4-1/2" packing gland bolts, being cautious of any trapped pressure.
6. Remove the 2 halves of the split top packing gland ring.
7. Remove the (3) sections of the top packing ring.
8. Remove the (3) rubber packing rings.
9. Remove the (3) sections of the thin bottom plate and inspect the electrical cable for any abrasion.

Note: This area is where we sometimes see some pinching causing the insulation of the power cable to fail resulting in an electrical short and premature pump failure.

10. Clean the tubing head bowl and tubing within the packing area and inspect for any damage such as corrosion or electrolysis.
11. Grease the bowl and tubing OD in the packing area. Any good grade of grease will work but **DO NOT USE PIPE DOPE** because it will dry out causing premature packing adjustment or failure.
12. Grease each of the (3) rubber packing rings and install them around the tubing and ESP cable without the armor jacket.
13. Install the (3) sections of the top packing ring.
14. Install the **directional split top packing gland**. The bottom of the ring has a step that will engage with the step on the top packing ring.
15. Install the (8) packing gland bolts and tighten evenly in a pattern as you would the lug nuts of a wheel. There is no torque rating for this, but you will see the grease extruding through the splits in the top packing ring as it energizes the rubber packing rings. You may need to adjust the packing again in the next 24-48 hours as the packing settles into place.
16. You should now be ready to pressure test the new packing if required.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	2145-0000-001	4-1/2" 8rd LTC Model "HHS" ESP Tubing Head Body	1
2	2100-0238-004	2-3/8" Model "HHS" Slip	1
3	2100-0238-101	2-3/8" Model "HHS" Bottom Plate #1 ROUND	1
4	2100-0238-121	2-3/8" Model "HHS" Top Plate #1 ROUND	1
5	2100-0238-111	2-3/8" Model "HHS" Pacloff Rubber, #1 Round	3
6	2100-0000-111	Model "HHS" ESP Tubing Head Top Gland Piece	2
7	2100-0000-075	Model "HHS" Bolt Set (8 per Set)	1

