CLAIMS

1. A packer for a well, comprising:

a body having a tubular shape;

an upper sealing element, a middle sealing element, and a lower sealing element disposed around the body;

a first prop upward of the middle sealing element and downward of the upper sealing element;

a second prop downward of the middle sealing element and upward of the lower sealing element, wherein the first prop is configured to wedge under the upper sealing element to push the upper sealing element outward, and wherein the second prop is configured to wedge under the lower sealing element to push the lower sealing element outward;

an upper cone slidably disposed around the body; and

an upper slip,

wherein the upper cone is configured to move upward to outwardly deploy the upper slip.

2. The packer of claim 1, wherein one or both of the first and second props are configured to compress the middle sealing element to outwardly expand the middle sealing element.

3. The packer of claim 2, wherein the first prop includes a flat downward surface.

4. The packer of any of claims 2 or 3, wherein the second prop include a flat upward surface.

5. The packer of any of claims 1-4, further comprising an upper anti-extrusion ring disposed upward of the upper sealing element and configured to resist and/or prevent upper axial extrusion of the upper sealing element.

6. The packer of any of claims 1-5, further comprising a lower anti-extrusion ring disposed downward of the lower sealing element and configured to resist and/or prevent lower axial extrusion of the lower sealing element.

7. The packer of any of claims 5 or 6, wherein the anti-extrusion ring includes a plastic, non-metallic or metal material.

8. The packer of any of claims 1-7, wherein the first and/or second prop includes plastic or metal material.

9. The packer of any of claims 1-8, wherein the sealing element includes an elastic material.

10. The packer of any of claims 1-9, further comprising an upper and/or lower backup ring disposed outwardly adjacent the upper sealing element and/or lower sealing element, respectively.

11. The packer of claim 10, wherein the upper and/or lower backup ring includes at least one of Teflon, wire mesh, thermal-plastic or other non-metallic material.

12. The packer of any of claims 10 or 11, further comprising an upper and/or lower support shoe disposed outwardly adjacent the upper and/or lower backup ring, respectively.

13. The packer of claim 12, wherein the upper and/or lower support shoe includes metal.

14. The packer of any of claims 1-13, wherein the upper cone includes an upper pushing face configured to limit upward movement of the upper sealing element.

15. The packer of any of claims 1-14, further comprising a lower cone slidably disposed around the body and a lower slip, wherein the lower cone is configured to move upward to push against the lower sealing element or the lower anti-extrusion ring, wherein the lower slip is configured to move upward relative to the lower cone to be outwardly deployed.

16. A method for setting a well packer according to any one of claims 1-15, comprising:

propping an upward sealing element to create a first propped seal point; and

propping a downward sealing element to create a second propped seal point.