CLAIMS

1. A method comprising:

moving a first tubular member relative to a second tubular member, such that a first end of the first tubular member enters and axially overlaps with a second end of the second tubular member;

rotating the first tubular member relative to the second tubular member, such that a first threading and a second threading on the first tubular member engages with a third threading and a fourth threading on the second tubular member, respectively; and

connecting the first tubular member to the second tubular member, such that a first curvilinear surface on the first tubular member between the first and second threading contacts a second curvilinear surface on the second tubular member between the third and fourth threading;

wherein a contact radial force between the first and second curvilinear surfaces form an annular seal between the first and second tubular members; and

wherein both the first and second curvilinear surfaces are curvilinear at the area point where the contact radial force is applied.

2. The method of claim 1, wherein rotating the first tubular member relative to the second tubular member comprises displacing lubricant between the first end and the second end into at least one of a first recess on the first tubular member between the first thread and the first curvilinear surface and a second recess on the second tubular member between the fourth thread and the second curvilin- ear surface.

3. The method of claim 1, wherein the contact radial force comprises a compressional force between the first and second curvilinear surfaces.

4. The method of claim 1, wherein connecting the first tubular member to the second tubular member comprises contacting the first curvilinear surface to the second curvilinear surface at a contact point closer to the first and third threads than to the second and fourth threads.

5. The method of claim 1, wherein connecting the first tubular member to the second tubular member comprises contacting the first curvilinear surface to the second curvilinear surface at a contact point axially centered between the first and second threads.

6. A connection having a curvilinear center seal, the connection comprising:

a first tubular member having a first thread set and a second thread set and a first curvilinear surface disposed axially between the first and second thread sets; and

a second tubular member having a third thread set and a fourth thread set and a second curvilinear surface disposed axially between the third and fourth thread sets;

wherein the first tubular member and the second tubular member connect when the first thread set engages with the third thread set and the second thread set engages with the fourth thread set to result in radial force between the first curvilinear surface and the second curvilinear surface; and

wherein both the first and second curvilinear surfaces are curvilinear at the area point where the radial force is applied.

7. The connection of claim 6, wherein the first and third thread sets comprise wedge thread geometries, the second and fourth thread sets comprise wedge thread geometries, or the first, second, third, and fourth thread sets have wedge thread geometries.

8. The connection of claim 6, wherein the first, second, third, and fourth thread sets comprise square threads, wedge threads, variable pitch threads, or combinations thereof.

9. The connection of claim 6, wherein a geometry of the first and second curvilinear surfaces comprise an elliptical curve, a circular curve, a toroidal curve, a varying-radius curve, or curve combinations thereof.

10. The connection of claim 6, wherein the first and second curvilinear surfaces comprise a curve radius between 0.5 inches to 50 inches.

11. The connection of claim 6, wherein the first and second curvilinear surfaces are symmetrical when the first and second tubular members connect.

12. The connection of claim 6, wherein the first and second curvilinear surfaces are asymmetrical when the first and second tubular members connect.

13. The connection of claim 6, wherein the first and second curvilinear surfaces each have different curve geometries.

14. The connection of claim 6, wherein the area where the radial force is applied is approximately axially centered between the first and second thread sets when the first and second tubular members connect.

15. The connection of claim 6, wherein the area where the radial force is applied is closer to the first and third thread sets than to the second and fourth thread sets when the first and second tubular members connect.