

CLAIMS

What is claimed is:

1. A riser telescoping joint, comprising:
 - a tube;
 - an alignment ring circumferentially coupled to the tube and comprising a mortise channel extending along a length of the alignment ring; and
 - a gooseneck conduit assembly removably attachable to the alignment ring, the gooseneck conduit assembly comprising:
 - a gooseneck conduit extending radially from the tube; and
 - a tenon projecting from a rear face of the gooseneck conduit and capable of interlocking with the mortise channel to laterally secure the gooseneck conduit assembly to the tube.
2. The riser telescoping joint of claim 1, wherein the tenon comprises an isosceles trapezoidal cross-section.
3. The riser telescoping joint of claim 1, wherein a width of the tenon increases with proximity to a top of the rear face.
4. The riser telescoping joint of claim 1, wherein a width of the mortise channel decreases with proximity to a bottom end of the tube.
5. The riser telescoping joint of claim 1, further comprising a support collar coupled to and extending radially from the tube, the support collar comprises a plurality of clamps each retaining an end of one of a plurality of auxiliary fluid lines extending along the tube.
6. The riser telescoping joint of claim 5, wherein the interlocking of the tenon and the mortise channel guide the gooseneck conduit into alignment with one of the auxiliary fluid lines.
7. The riser telescoping joint of claim 1, wherein the gooseneck conduit assembly further comprises a locking mechanism, the locking mechanism comprising a primary lock, the primary lock comprising: a locking member movable between an extended position wherein the gooseneck conduit assembly is longitudinally secured to the tube and a retracted

position wherein the gooseneck conduit assembly is free to move longitudinally along the tube.

8. The riser telescoping joint of claim 7, wherein the locking mechanism comprises a secondary lock, the secondary lock comprising a pin movable between a first position wherein the pin locks the locking member in the extended position and a second position wherein the locking member is free to retract.

9. A system, comprising:

a telescoping joint; comprising:

an alignment ring circumferentially coupled to a tube of the telescoping joint, the alignment ring comprising a longitudinal mortise channel unobstructed vertically by the alignment ring; and

a gooseneck conduit assembly coupled to the alignment ring, the gooseneck conduit assembly comprising:

a gooseneck conduit; and

a tenon that slidingly engages sides of the mortise channel to secure the gooseneck conduit assembly to the alignment ring.

10. The system of claim 9, further comprising at least one of:

a surface platform;

a riser; and

a blow-out preventer coupled to the riser.

11. The system of claim 9, further comprising a support collar circumferentially coupled to the tube, the support collar comprising a plurality of clamps each retaining an end of one of a plurality of auxiliary fluid lines extending along the tube, wherein the tenon slidingly engages the mortise channel to align the gooseneck conduit with one of the auxiliary fluid lines.

12. The system of claim 9, wherein the gooseneck conduit assembly comprises a primary lock, the primary lock comprising a locking member that retractably extends to engage sides of a locking channel of the alignment ring to secure the gooseneck conduit assembly to the telescoping joint.

CLAIMS

What is claimed is:

1. A system, comprising:
 - a telescoping joint (130), comprising:
 - an alignment ring (316) circumferentially coupled to a tube of the telescoping joint (130), the alignment ring (316) comprising a longitudinal mortise channel (304); and
 - a gooseneck conduit assembly (154) coupled to the alignment ring (316), the gooseneck conduit assembly (154) comprising:
 - a gooseneck conduit (156); and
 - a tenon (306) that slidingly engages sides of the mortise channel (304) to secure the gooseneck conduit assembly (154) to the alignment ring (316).
2. The system of claim 1, further comprising at least one of:
 - a surface platform (126);
 - a riser (122); and
 - a blow-out preventer (112) coupled to the riser (122).
3. The system of claim 1, wherein the tenon (306) comprises an isosceles trapezoidal cross-section.
4. The system of claim 1, wherein a width of the tenon (306) increases with proximity to a top of a rear face (318) of the gooseneck conduit (156).
5. The system of claim 1, wherein a width of the mortise channel (304) decreases with proximity to a bottom end of the tube.
6. The system of claim 1, further comprising a support collar (150) coupled to and extending radially from the tube, the support collar (150) comprises a

plurality of clamps (412) each retaining an end of one of a plurality of auxiliary fluid lines (152) extending along the tube.

7. The system of claim 6, wherein the interlocking of the tenon (306) and the mortise channel (304) guide the gooseneck conduit (156) into alignment with one of the auxiliary fluid lines (152).

8. The system of claim 1, wherein the gooseneck conduit assembly (154) further comprises a locking mechanism, the locking mechanism comprising a primary lock (618), the primary lock comprising: a locking member (408) movable between an extended position wherein the gooseneck conduit assembly (154) is longitudinally secured to the tube and a retracted position wherein the gooseneck conduit assembly (154) is free to move longitudinally along the tube.

9. The system of claim 8, wherein the primary lock comprises a hydraulic cylinder (612) coupled to the locking member (408), the hydraulic cylinder (612) operable to move the locking member (408) between the retracted position and the extended position.

10. The system of claim 8, wherein the locking mechanism comprises a secondary lock (308), the secondary lock (308) comprising a pin (604) movable between a first position wherein the pin (604) locks the locking member (408) in the extended position and a second position wherein the locking member (408) is free to retract.