

CLAIMS

What is claimed is:

1. A surface casing head for installation within an installed conductor system including a diverter, the surface casing head comprising:

an outer tubular member insertable through the diverter and including an annular recess;

an inner tubular member at least partially disposed within and moveable relative to the outer tubular member; and

a sleeve ring rotatably coupled to the inner tubular, the sleeve ring comprising a snap ring that is displaceable between an extended position and a retracted position;

wherein in the extended position, at least a portion of the snap ring is received within the annular recess and the outer tubular member is axially immovable relative to the inner tubular member; and

wherein in the retracted position, no portion of the snap ring is received within the annular recess and the outer tubular member is axially moveable relative to the inner tubular member.

2. The surface casing head of claim 1, wherein the outer tubular member further comprises:

an inner surface forming a shoulder;

an outer surface;

a throughbore extending between the shoulder and the outer surface; and

an indicator pin disposed within the throughbore, the indicator pin biased such that it does not extend beyond the outer surface when any load applied thereto is less than a preselected value and displaceable to extend beyond the outer surface when a load applied thereto exceeds the preselected value.

3. The surface casing head of claim 2, wherein the indicator pin comprises:

a housing disposed in the throughbore;

a pin member disposed within the housing and displaceable relative to the housing; and

a biasing member disposed between the pin member and housing, the biasing member displacing the pin member such that the pin member does not extend beyond the outer surface when any load applied to the pin member is less than the preselected value.

4. The surface casing head of claim 3, wherein the biasing member is a spring.
5. The surface casing head of claim 1, wherein the sleeve ring further comprises an annular body with an outer surface and an inner surface including threads rotatably coupled with mating threads on the inner tubular member, whereby the sleeve ring is axially moveable relative to the inner tubular member.
6. The surface casing head of claim 1, further comprising a threaded landing ring rotatably coupled to and axially moveable relative to the inner tubular member, the threaded landing ring including an outer surface forming a shoulder.
7. The surface casing head of claim 6, further comprising a segmented landing ring including a body and a plurality of segments disposed therein, each segment actuatable to extend at least in part from the body, whereby the segments form a shoulder adapted to engage the shoulder of the threaded landing ring.
8. A well bore casing system comprising:
 - a conductor system comprising a conductor;
 - a segmented landing ring supported on the conductor, the segmented landing ring comprising a body and a plurality of segments disposed therein, each segment actuatable to extend at least in part from the body, whereby the segments form a shoulder; and
 - an outer casing string disposed at least in part within the conductor system, the outer casing string comprising:
 - an inner tubular member; and
 - a threaded landing ring threadably coupled to the inner tubular and engageable with the shoulder.
9. The well bore casing system of claim 8, wherein the segmented landing ring further comprises an annular body with a flange and an axially facing surface engaging an end of the conductor system, wherein the flange extends around the periphery of the body and bounds the axially facing surface.

10. The well bore casing system of claim 8, wherein the threaded landing ring includes an outer surface forming a shoulder adapted to engage the shoulder of the segmented landing ring.

11. The well bore casing system of claim 8, wherein the outer casing string further comprises an outer tubular member disposed about the inner tubular member and axially moveable relative to the inner tubular member.

12. The well bore casing system of claim 11, wherein the conductor system comprises a diverter and wherein the outer casing string is insertable through the diverter.

13. The well bore casing system of claim 11, wherein the outer tubular member comprises an outer surface and an inner surface forming a shoulder; and

wherein the outer casing string further comprises an indicator pin disposed in a bore extending between the shoulder and the outer surface, the indicator pin biased such that the indicator pin does not extend beyond the outer surface when any load applied thereto is less than a preselected value and displaceable to extend beyond the outer surface when a load applied thereto exceeds the preselected value.

14. The well bore casing system of claim 8, further comprising a sleeve ring rotatably coupled to the inner tubular, the sleeve ring comprising:

a snap ring that is displaceable between an extended position and a retracted position;

wherein in the extended position, at least a portion of the snap ring is received within the annular recess and the outer tubular member is axially immovable relative to the inner tubular member; and

wherein in the retracted position, no portion of the snap ring is received within the annular recess and the outer tubular member is axially moveable relative to the inner tubular member.