[0019] A bridge racker crane also mounted in the upper part of the derrick removes tubular stands from the auxiliary tubular racking station and transports them to either the top drive, or to another tubular racking station in the derrick. Using the auxiliary tubular racking station, the offline stand building operation is advantageously uninterrupted when the bridge racker crane is unavailable due to its need to participate in the simultaneously occurring drilling operations.

[0019a] According to a first aspect of the present invention, there is provided a system for drilling. Said system comprises a drilling deck; a drilling structure disposed with said drilling deck; a primary tubular advancing station having a well center and disposed with said drilling structure for advancing a first tubular to said well center; an auxiliary tubular handling station for handling a second tubular; said drilling deck having a preparation hole positioned with said auxiliary tubular handling station for receiving the second tubular; an auxiliary tubular handling device for positioning the second tubular in a substantially vertical position above said preparation hole; an auxiliary tubular racking station elevated above said auxiliary tubular handling station for holding the second tubular from said auxiliary tubular handling station, wherein the second tubular is received in said preparation hole, positioned in a substantially vertical position above said preparation hole or held in said auxiliary tubular racking station while the first tubular is independently and simultaneously advanced through said primary tubular advancing station to said well center; and a bridge racker crane configured to move the second tubular between said auxiliary tubular racking station and said well center; wherein said auxiliary tubular handling device is configured to directly position the second tubular with said auxiliary tubular racking station; and wherein said auxiliary tubular handling device operates independently of said bridge racker crane.

[0019b] According to a second aspect of the present invention, there is provided another system for drilling. Said system comprises a drilling deck; a drilling structure disposed with said drilling deck; a primary tubular advancing station having a well center and disposed with said drilling structure for advancing a first tubular to said well center; an auxiliary tubular handling station for handling a second tubular; an auxiliary tubular handling device for positioning the second tubular in a substantially vertical position; a first tubular racking station elevated above said auxiliary tubular handling station for holding the second tubular from said auxiliary tubular handling station, wherein the second tubular is positioned in a substantially vertical position above said drilling deck and held in said first tubular racking station while the first tubular is advanced through said primary tubular advancing station to said well center; and a bridge racker crane is configured to move the second tubular between said first tubular racking station and said well center; wherein said auxiliary tubular handling device is configured to directly position the second tubular with said first tubular racking station; and wherein said auxiliary tubular handling device operates independently of said bridge racker crane.

[0019c] According to a third aspect of the present invention, there is provided yet another system for drilling. Said system comprises a drilling deck; a primary tubular advancing station having a well center and configured for advancing a first tubular onto said drilling deck and to said well center; an auxiliary tubular handling station configured for moving a second tubular onto said drilling deck; a stand arm configured for positioning the second tubular in a substantially vertical position; a first tubular racking station above said auxiliary tubular handling station configured for holding the second tubular, wherein the second tubular is moved onto said drilling deck and positioned in a substantially vertical position above said drilling deck and held in said first tubular racking station while the first tubular is advanced onto said drilling deck and to said well center; and

a bridge racker crane configured to move the second tubular between said first tubular racking station and said well center, wherein said stand arm is configured to operate independent of said bridge racker crane.

BRIEF DESCRIPTION OF THE DRAWINGS

[0020] A better understanding of the present invention can be obtained with the following detailed descriptions of the various disclosed embodiments in the drawings:

[0021] **FIG. 1** is an elevational view of the present invention on an exemplary embodiment of a drilling rig.

[0022] **FIG. 2** is a section plan view taken along line 2-2 of FIG. 1 showing the catwalk, the primary tubular advancing station, the primary tubular handling station, and the auxiliary tubular handling station.

[0023] **FIG. 2A** is a plan view showing the stand arm, the preparation hole, and the auxiliary tubular racking station in alternative locations relative to each other as compared with FIG. 2 and the other drawings.