ABSTRACT

A system for sealing a wellhead, the system comprising: a wellhead housing for connecting to a well string casing, the wellhead housing being annularly disposed about a central axis comprising: a primary sealing surface disposed within the wellhead housing; a reference surface extending below the primary sealing surface; and a secondary sealing surface extending below the reference surface; a wellhead connector annularly disposed about the central axis having disposed therein a connector sealing surface; and a secondary seal ring annularly disposed about the central axis and comprising: a ring seal surface for sealing contact with the connector sealing surface; and an extension extending below the ring seal surface and having disposed thereon a sealing land extending from a lower portion of the extension for sealing contact with the wellhead housing. A system for sealing a wellhead, the system comprising: a wellhead housing annularly disposed about a central axis comprising: a primary sealing surface disposed within the wellhead housing; a secondary sealing surface extending below the primary sealing surface; and a lever point; and a wellhead connector annularly disposed about the central axis and having disposed therein a connector sealing surface; and a secondary seal ring annularly disposed about the central axis and comprising: a ring seal surface for sealing contact with the connector sealing surface; a sealing land for sealing contact with the wellhead housing; and a lever contact point for engagement with the lever point about which compressive forces imposed by the wellhead housing and the wellhead connector generate a moment which energizes the sealing land.

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