What is claimed is:

1. A well barrier and disconnect system for use during drilling operations in wellbore environments, the well barrier and disconnect system comprising:

a liner hanger coupling a drilling assembly and a valve with a liner hanger running tool; and

a control mechanism to set the liner hanger into the wellbore casing and disconnect the liner hanger running tool from the liner hanger, the valve, and the drilling assembly.

2. The well barrier and release system of claim 1, wherein the control mechanism comprises a shifter and a sleeve used to open and close the valve in response to disconnecting the liner hanger running tool from the liner hanger and retrieving the liner hanger running tool, and, optionally, wherein the valve comprises a ball valve that is moveable in response to at least one of a mechanical and an electromechanical force.

3. The well barrier and release system of claim 1, wherein the valve comprises a valve seat for receiving a ball and the valve seat having an internal diameter less than the internal diameter of the casing liner.

4. The well barrier and release system of claim 1, wherein the valve comprises a flapper seat biased in the closed position by a spring, wherein the flapper seat is held in the open position by an extension of the liner hanger running tool and moveable in response to retrieval of the liner hanger running tool.

5. The well barrier and release system of claim 1, wherein the liner hanger is one of an expandable liner hanger, a conventional liner hanger, or a packer, and, optionally,

wherein the control mechanism is further configured to perform one of:

expand the expandable liner hanger to expand against downhole well casing; or

anchor the conventional liner hanger or packer with a section of downhole well casing.

6. A well barrier and disconnect device for use during drilling operations in wellbore environments, the well barrier and disconnect device comprising:

a valve having a liner hanger, the liner hanger coupling the valve and a drilling assembly with a liner hanger running tool; and

a control mechanism to set the liner hanger into the wellbore casing and disconnect the liner hanger running tool from the liner hanger, the valve, and the drilling assembly.

7. The well barrier and release device of claim 6, wherein the valve comprises a valve seat for receiving a ball and the valve seat having an internal diameter less than the internal diameter of the casing liner and, optionally, wherein the valve comprises a ball valve that is moveable in response to at least one of a mechanical or an electromechanical force.

8. The well barrier and release device of claim 6, wherein the valve comprises a valve seat for receiving a ball and the valve seat having an internal diameter less than the internal diameter of the casing liner.

9. The well barrier and release device of claim 6, wherein the valve comprises a flapper seat biased in the closed position by a spring, wherein the flapper seat is held in the open position by an extension of the liner hanger running tool and moveable in response to retrieval of the liner hanger running tool.

10. The well barrier and release device of claim 6, wherein the liner hanger is one of an expandable liner hanger, a conventional liner hanger, or a packer.

11. The well barrier and release device of claim 10, wherein the mechanism is further configured to perform one of: expand the expandable liner hanger to expand against downhole

well casing; or anchor the conventional liner hanger or packer with a section of downhole well casing.

12. A method of using a well barrier and disconnect system during drilling operations in wellbore environments, the method comprising:

using a liner hanger; a valve; and a drilling assembly coupled to a liner hanger running tool during drilling operations; and

performing in response to an indication that the wellbore environment is on uncontrollable losses or in the event of a well control issue:

setting the liner hanger into the downhole well casing;

closing a valve that is connected below the liner hanger; and

disconnecting the liner hanger running tool from the liner hanger, valve, and drilling assembly.

13. The method of claim 12, further comprising closing the valve prior to disconnecting the liner hanger running tool from the liner hanger, valve, and drilling assembly.

14. The method of claim 12, wherein closing the valve comprises performing one of:

dropping a ball into the valve;

retrieving an extension pipe to close a flapper valve;

or maneuvering a ball valve between an open and closed position.

15. The method of claim 12, further comprising performing one of:

expanding the liner hanger against the downhole well casing;

or anchoring the liner hanger into a section of downhole well casing.