CLAIMS

1. An assembly configured to be disposed within a well at an intersection of a parent bore of the well and a lateral bore of the well, the assembly comprising:

a junction having a mainbore leg and a lateral leg;

a passage in the mainbore leg configured to receive a flowing fluid;

a port in the junction in fluid communication with the passage such that the flowing fluid in the passage creates a suction at the port to draw debris in the well through the port and into the passage; wherein the said assembly further comprising a debris chamber disposed in the junction, the debris chamber being in fluid communication with the passage and configured to receive the debris passing through the port; and wherein the debris chamber having a plurality of baffles to assist in collecting debris that passes through the port.

2. The assembly of claim 1 further comprising:

a debris chamber disposed in the junction, the debris chamber being in fluid communication with the passage and configured to receive the debris passing through the port;

wherein the debris chamber is removable from the junction following landing of the junction.

3. The assembly of claim 1 further comprising:

a debris chamber in fluid communication with the passage and configured to receive the debris passing through the port;

wherein the debris chamber has a cross-sectional area that is larger than a cross-sectional area of the passage.

4. The assembly of claim 1 further comprising a debris chamber in fluid communication with the passage, the debris chamber having a spring loaded door positioned proximate an upstream side of the debris chamber, the door movable between an open position and a closed position, wherein:

the door is positioned in the open position when flow is present thereby allowing fluid and debris to enter the debris chamber; and the door is positioned in the closed position when flow ceases thereby reducing the loss of collected debris from the debris chamber.

5. The assembly of any of claims 1 - 4 further comprising:

a completion deflector positioned in the mainbore of the well, the completion deflector having a deflection surface oriented to allow diversion of the lateral leg into the lateral bore;

wherein the port is oriented to allow collection of debris from the deflection surface as the mainbore leg is landed in the completion deflector.

6. The assembly of any of claims 1 - 5, wherein the port is positioned in a liner of the junction disposed in the mainbore leg.

7. An assembly configured to be disposed within a well at an intersection of a parent bore of the well and a lateral bore of the well, the assembly comprising:

a junction having a mainbore leg and a lateral leg;

a first passage disposed at least partially in the lateral leg;

a second passage disposed at least partially in the mainbore leg; and

a valve assembly fluidly coupled to the first passage to selectively divert fluid from the first passage to the second passage.;

wherein the valve assembly comprises:

a valve seat positioned in the first passage;

a diverter port positioned upstream of the valve seat, the diverter port capable of providing fluid communication between the first passage and the second passage;

a first slidable sleeve configured to cover the diverter port when the slidable sleeve is positioned in a first position;

a first ball deployable into the first passage to engage the first slidable sleeve and move the first slidable sleeve into a second position, the first slidable sleeve in the second

position contacting the valve seat and at least partially uncovering the diverter port to allow diversion of fluid from the first passage to the second passage;

second slidable sleeve positioned in a first position upstream of the first slidable sleeve;

a second ball deployable into the first passage to engage the second slidable sleeve and move the second slidable sleeve into a second position, the second slidable sleeve in the second position contacting the first slidable sleeve, either the second ball or the second slidable sleeve preventing fluid communication through the diverter port when the second slidable sleeve is in the second position;

a catch chamber fluidly coupled to and disposed downstream of the first passage, the catch chamber configured to receive the first slidable sleeve, the first ball, the second slidable sleeve, and the second ball when a force is exerted on the second ball sufficient to release the first slidable sleeve within the first passage;

a port in the mainbore leg in fluid communication with the second passage such that the flowing fluid in the second passage creates a suction at the port to draw debris in the well through the port and into the second passage.

8. The assembly of claim 7, wherein the valve assembly comprises:

a valve seat positioned in the first passage;

a diverter port positioned upstream of the valve seat, the diverter port capable of providing fluid communication between the first passage and the second passage;

a slidable sleeve configured to cover the diverter port when the slidable sleeve is positioned in a first position; and

a ball deployable into the first passage to engage the slidable sleeve and move the slidable sleeve into a second position, the slidable sleeve in the second position contacting the valve seat and at least partially uncovering the diverter port to allow diversion of fluid from the first passage to the second passage.

9. The assembly of claim 7, wherein the valve assembly comprises:

a valve seat positioned in the first passage;

a diverter port positioned upstream of the valve seat, the diverter port capable of providing fluid communication between the first passage and the second passage;

a first slidable sleeve configured to cover the diverter port when the slidable sleeve is positioned in a first position;

a first ball deployable into the first passage to engage the first slidable sleeve and move the first slidable sleeve into a second position, the first slidable sleeve in the second position contacting the valve seat and at least partially uncovering the diverter port to allow diversion of fluid from the first passage to the second passage;

a second slidable sleeve positioned in a first position upstream of the first slidable sleeve; and

a second ball deployable into the first passage to engage the second slidable sleeve and move the second slidable sleeve into a second position, the second slidable sleeve in the second position contacting the first slidable sleeve, either the second ball or the second slidable sleeve preventing fluid communication through the diverter port when the second slidable sleeve is in the second position.

10. The assembly of any of claims 7 to 9 further comprising:

a collection port in the mainbore leg in fluid communication with the second passage such that fluid flowing in the second passage creates a suction at the collection port to draw debris in the well through the collection port and into the second passage.

11. The assembly of any of claims 7 to 9 further comprising:

a collection port in the mainbore leg in fluid communication with the second passage such that fluid flowing in the second passage creates a suction at the collection port to draw debris in the well through the collection port and into the second passage; and

a debris chamber disposed in the junction in fluid communication with the second passage and configured to receive the debris passing through the collection port.

12. The assembly of any of claims 7 to 9 further comprising:

a collection port in the mainbore leg in fluid communication with the second passage such that fluid flowing in the second passage creates a suction at the collection port to draw debris in the well through the collection port and into the second passage; and

a debris chamber in fluid communication with the second passage and configured to receive the debris passing through the collection port;

wherein the debris chamber has a cross-sectional area that is larger than a cross-sectional area of the second passage.

13. The assembly of any of claims 7 to 9 further comprising:

a collection port in the mainbore leg in fluid communication with the second passage such that fluid flowing in the second passage creates a suction at the collection port to draw debris in the well through the collection port and into the second passage; and

a debris chamber in fluid communication with the second passage and configured to receive the debris passing through the collection port;

wherein the debris chamber includes a plurality of baffles to assist in collecting debris that passes through the collection port.

14. The assembly of any of claims 7 to 9 further comprising:

a collection port in the mainbore leg in fluid communication with the second passage such that fluid flowing in the second passage creates a suction at the collection port to draw debris in the well through the collection port and into the second passage;

a completion deflector positioned in the mainbore of the well, the completion deflector having a deflection surface oriented to allow diversion of the lateral leg into the lateral bore;

wherein the collection port is oriented to allow collection of debris from the deflection surface as the mainbore leg is landed in the completion deflector.

15. A method for completing a well having a mainbore and a lateral bore, the method comprising:

positioning a junction having a mainbore leg and a lateral leg in the well, the mainbore leg having a collection port in fluid communication with a passage in the mainbore leg;

flowing fluid through the passage to create a suction at the collection port; and collecting debris from the well through the collection port;

wherein flowing fluid through the passage in the mainbore leg further comprises:

diverting fluid flowing through a passage in the lateral leg to the passage in the mainbore leg.

16. The method of claim 15 further comprising:

positioning a completion deflector in the mainbore of the well, the completion deflector having a deflection surface oriented to allow diversion of the lateral leg into the lateral bore;

wherein collecting debris from the well further comprises collecting debris from the deflection surface of the completion deflector;

landing the mainbore leg in the completion deflector following the collection of debris from the deflection surface.