I claim:

1. A recirculation sub for placement above a bottom hole assembly, comprising:

a housing having a first passage extending therethrough from an uphole to a downhole end and extending in the direction of a longitudinal axis thereof and at least one lateral port in a wall that defines said housing;

an internal assembly configured in a first position to pass all fluid entering said passage uphole end through said passage and in a second position to enable a recirculation flow between said port and the bottom hole assembly using fluid delivered at said passage uphole end.

2. The recirculation sub of claim **1**, wherein:

said lateral port is selectively blocked.

3. The recirculation sub of claim **1**, wherein:

said passage is selectively blocked to through flow from said uphole to said downhole end.

4. The recirculation sub of claim **3**, wherein:

said internal assembly comprises a movable member with a flow path therethrough to close said passage when said flow path is obstructed by an object.

5. The recirculation sub of claim **4**, wherein:

said movable member obstructing at least one lateral passage in a first position and opening said lateral passage in a second position.

6. The recirculation sub of claim **5**, wherein:

said movable member responsive to applied pressure on said object when said object blocks said flow path.

7. The recirculation sub of claim **5**, wherein:

said lateral passage is substantially aligned with said lateral port.

8. The recirculation sub of claim **7**, wherein:

said lateral passage ends with a gap to said lateral port, said gap in communication with said passage.

9. The recirculation sub of claim **8**, wherein:

said lateral passage further comprises a device for reducing fluid pressure in said gap.

10. The recirculation sub of claim **9**, wherein:

said device comprises a fluid nozzle.

11. The recirculation sub of claim **10**, wherein:

said at least one lateral passage comprises a plurality of passages each with a fluid nozzle and each with a gap to a substantially aligned lateral port.

12. The recirculation sub of claim **10**, wherein:

said movable member moves in tandem with a sleeve that selectively blocks said lateral port.

13. The recirculation sub of claim **12**, wherein:

movement of said movable member to said second position opens said lateral passage and opens said lateral port by moving said sleeve.

14. The recirculation sub of claim **13**, wherein:

said sleeve locks to said housing after being moved away from said lateral port.

15. The recirculation sub of claim **14**, wherein:

said sleeve is releasably secured to said housing by a breakable member.

16. The recirculation sub of claim **4**, wherein:

said movable member moves in tandem with a sleeve that selectively blocks said lateral port.

17. The recirculation sub of claim **16**, wherein:

movement of said movable member from a first to a second position opens a lateral passage aligned with said lateral port and opens said lateral port by moving said sleeve.

18. The recirculation sub of claim **2**, wherein:

said internal assembly comprises a movable member with a flow path therethrough to close said passage when said flow path is obstructed by an object.

19. The recirculation sub of claim **18**, wherein:

said movable member obstructing at least one lateral passage in a first position and opening said lateral passage in a second position.

20. The recirculation sub of claim **19**, wherein:

said lateral passage substantially aligned and terminating before said lateral port to define a gap in communication with said passage;

said movable member moving a sleeve to uncover said lateral port when moving to its said second position;

said lateral passage further comprises a flow responsive device to reduce pressure in said gap for inducing recirculation flow between said lateral port and the bottom hole assembly.

I claim:

1. A recirculation sub for placement above a bottom hole assembly, comprising:

a housing having a first passage extending therethrough from an uphole to a downhole end and extending in the direction of a longitudinal axis thereof and at least one lateral port in a wall that defines said housing;

an internal assembly configured in a first position to pass all fluid entering said passage uphole end through said passage and in a second position to enable a recirculation flow between said port and the bottom hole assembly using fluid delivered at said passage uphole end;

said internal assembly further comprising a movable member obstructing at least one lateral passage in said first position and opening said lateral passage in said second position, said second position of said movable member opening said lateral port that had been closed in said first position of said movable member;

said lateral passage is substantially aligned with said lateral port.

2. The recirculation sub of claim 1, wherein:

said first passage is selectively blocked to through flow from said uphole to said downhole end.

3. The recirculation sub of claim 2, wherein:

said movable member comprises a flow path therethrough to close said first passage when said flow path is obstructed by an object.

4. The recirculation sub of claim 3, wherein:

said movable member responsive to applied pressure on said object when said object blocks said flow path.

5. The recirculation sub of claim 1, wherein:

said lateral passage ends with a gap to said lateral port, said gap in communication with said passage.

6. The recirculation sub of claim 5, wherein:

said lateral passage further comprises a device for reducing fluid pressure in said gap.

7. The recirculation sub of claim 6, wherein:

said device comprises a fluid nozzle.

8. The recirculation sub of claim 7, wherein:

said at least one lateral passage comprises a plurality of passages each with a fluid nozzle and each with a gap to a substantially aligned lateral port.

9. A recirculation sub for placement above a bottom hole assembly, comprising:

a housing having a first passage extending therethrough from an uphole to a downhole end and extending in the direction of a longitudinal axis thereof and at least one lateral port in a wall that defines said housing;

an internal assembly configured in a first position to pass all fluid entering said passage uphole end through said passage and in a second position to enable a recirculation flow between said port and the bottom hole assembly using fluid delivered at said passage uphole end;

said lateral port is selectively blocked.

10. A recirculation sub for placement above a bottom hole assembly, comprising:

a housing having a first passage extending therethrough from an uphole to a downhole end and extending in the direction of a longitudinal axis thereof and at least one lateral port in a wall that defines said housing;

an internal assembly configured in a first position to pass all fluid entering said passage uphole end through said passage and in a second position to enable a recirculation flow between said port and the bottom hole assembly using fluid delivered at said passage uphole end;

said passage is selectively blocked to through flow from said uphole to said downhole end;

said internal assembly comprises a movable member with a flow path therethrough to close said passage when said flow path is obstructed by an object;

said movable member obstructing at least one lateral passage in said first position and opening said lateral passage in said second position;

said lateral passage is substantially aligned with said lateral port;

said lateral passage ends with a gap to said lateral port, said gap in communication with said passage;

said lateral passage further comprises a device for reducing fluid pressure in said gap;

said device comprises a fluid nozzle;

said movable member moves in tandem with a sleeve that selectively blocks said lateral port.

11. The recirculation sub of claim 10, wherein:

movement of said movable member to said second position opens said lateral passage and opens said lateral port by moving said sleeve.

12. The recirculation sub of claim 11, wherein:

said sleeve locks to said housing after being moved away from said lateral port.

13. The recirculation sub of claim 12, wherein:

said sleeve is releasably secured to said housing by a breakable member.

14. A recirculation sub for placement above a bottom hole assembly, comprising:

a housing having a first passage extending therethrough from an uphole to a downhole end and extending in the direction of a longitudinal axis thereof and at least one lateral port in a wall that defines said housing;

an internal assembly configured in a first position to pass all fluid entering said passage uphole end through said passage and in a second position to enable a recirculation flow between said port and the bottom hole assembly using fluid delivered at said passage uphole end;

said passage is selectively blocked to through flow from said uphole to said downhole end;

said internal assembly comprises a movable member with a flow path therethrough to close said passage when said flow path is obstructed by an object;

said movable member moves in tandem with a sleeve that selectively blocks said lateral port.

15. The recirculation sub of claim 14, wherein:

movement of said movable member from a first to a second position opens a lateral passage aligned with said lateral port and opens said lateral port by moving said sleeve.

16. A recirculation sub for placement above a bottom hole assembly, comprising:

a housing having a first passage extending therethrough from an uphole to a downhole end and extending in the direction of a longitudinal axis thereof and at least one lateral port in a wall that defines said housing;

an internal assembly configured in a first position to pass all fluid entering said passage uphole end through said passage and in a second position to enable a recirculation flow between said port and the bottom hole assembly using fluid delivered at said passage uphole end;

said lateral port is selectively blocked;

said internal assembly comprises a movable member with a flow path therethrough to close said passage when said flow path is obstructed by an object.

17. A recirculation sub for placement above a bottom hole assembly, comprising:

a housing having a first passage extending therethrough from an uphole to a downhole end and extending in the direction of a longitudinal axis thereof and at least one lateral port in a wall that defines said housing;

an internal assembly configured in a first position to pass all fluid entering said passage uphole end through said passage and in a second position to enable a recirculation flow between said port and the bottom hole assembly using fluid delivered at said passage uphole end;

said lateral port is selectively blocked;

said internal assembly comprises a movable member with a flow path therethrough to close said passage when said flow path is obstructed by an object;

said movable member obstructing at least one lateral passage in said first position and opening said lateral passage in said second position.

18. The recirculation sub of claim 17, wherein:

said lateral passage substantially aligned and terminating before said lateral port to define a gap in communication with said passage;

said movable member moving a sleeve to uncover said lateral port when moving to its said second position;

said lateral passage further comprises a flow responsive device to reduce pressure in said gap for inducing recirculation flow between said lateral port and the bottom hole assembly.