Claims

1. A method for removing a plug positioned to block fluid flow through a passageway in a downhole tubular positioned in a subterranean wellbore, the plug isolated from fluid in the passageway by at least one cover, the method comprising the steps of:

actuating an electronic rupture disc assembly to open a fluid bypass to the plug; and

substantially degrading the plug using a fluid,

wherein the passageway extends longitudinally through the downhole tubular.

2. The method as in claim 1, further comprising the step of actuating a second electronic rupture disc assembly to allow the fluid to flow into contact with the plug.

3. The method as in claim 2, further comprising the step of actuating a third electronic rupture disc assembly to move a moveable member into contact with at least a portion of the cover.

4. A method as in any preceding claim, wherein a rupture disc of the rupture disc assembly is initially positioned to block fluid flow along the fluid bypass between the plug and the rupture disc.

5. A method as in any preceding claim, further comprising the step of supplying electric power to the electronic rupture disc assembly.

6. A method as in claim 2, wherein a second rupture disc of the second rupture disc assembly is initially positioned to block fluid flow between the fluid bypass and a fluid supply.

7. A method as in claim 6, wherein the fluid bypass fluidly connects the plug and a fluid supply.

8. A method as in claim 7, further comprising the step of flowing a fluid from an enclosed fluid supply carried on the downhole tubular through the fluid bypass and into contact with the plug.

9. A method as in claim 3, further comprising the step of delaying actuation of the third electronic rupture disc assembly until substantial degradation of the plug.

10. A method as in claim 3, wherein a third rupture disc of the third rupture disc assembly initially isolates a high pressure chamber, and wherein fluid in the high pressure chamber maintains the moveable member in an initial position.

11. A method as in claim 10, wherein the step of actuating the third rupture disc assembly further comprises the step of flowing fluid from the high pressure chamber and thereby moving the moveable member into contact with at least a portion of the cover.

12. A method as in claim 11, wherein the step of moving the moveable member further includes sliding a sleeve longitudinally along the passageway and substantially removing the cover from the passageway.

13. An apparatus for use in a subterranean wellbore and for removing a degradable plug from a passageway extending along a downhole tubular, the degradable plug for blocking fluid flow through the passageway, the apparatus comprising:

a fluid chamber having a degrading fluid therein for degrading the plug;

a first electronic rupture disc assembly having a first rupture disc for selectively blocking flow from the fluid chamber; and

a second electronic rupture disc assembly having a second rupture disc for selectively blocking flow of the degrading fluid into contact with the degradable plug.

14. An apparatus as in claim 13, wherein the degradable plug is initially fluidly isolated, wherein the apparatus comprises at least one cover protecting the plug from fluid.

15. An apparatus as in claim 13, wherein at least one of the first and second rupture discs selectively block flow through a fluid bypass extending between the plug and the fluid chamber.

16. An apparatus as in claim 13, further comprising a movable member operable to substantially remove the cover from the passageway.

17. An apparatus as in claim 16, wherein the movable member is retained in an initial position by a high pressure fluid in a high pressure chamber and further comprising a third electronic rupture disc assembly having a third rupture disc for selectively blocking flow of the high pressure fluid from the high pressure chamber.

18. A method for removing a degradable barrier plug positioned to block fluid flow through a passageway in a downhole tubular positioned in a subterranean wellbore, the degradable barrier plug substantially isolated from fluid in the passageway by at least one cover, the method comprising the steps of:

actuating a first electronic rupture disc assembly to open a fluid bypass to the degradable plug;

substantially degrading the degradable barrier plug; and then

actuating a second electronic rupture disc assembly to allow a movable member to remove at least a portion of the cover substantially out of the passageway.

Claims

1. A method for removing a plug positioned to block fluid flow through a passageway in a downhole tubular positioned in a subterranean wellbore, the plug isolated from a fluid in the passageway by at least one cover, the method comprising: actuating a first electronic rupture disc assembly to open a fluid bypass to the plug, thereby allowing the fluid to flow into the fluid bypass; actuating a second electronic rupture disc assembly to allow the fluid to come into contact with the plug; substantially degrading the plug using the fluid; and actuating a third electronic rupture disc assembly to move a moveable member into contact with at least a portion of the cover.

2. A method as in claim 1, wherein the passageway extends longitudinally through the downhole tubular.

3. A method as in claim 1, wherein a first rupture disc of the first electronic rupture disc assembly is initially positioned to block fluid flow along the fluid bypass between the plug and the first rupture disc.

4. A method as in claim 1, further comprising supplying electric power to the first electronic rupture disc assembly.

5. A method as in claim 1, wherein a second rupture disc of the second electronic rupture disc assembly is initially positioned to block fluid flow between the fluid bypass and a fluid supply.

6. A method as in claim 5, wherein the fluid bypass fluidly connects the plug and the fluid supply.

7. A method as in claim 6, wherein the fluid supply is an enclosed fluid supply carried on the downhole tubular, and the method further comprising flowing the degrading fluid from the enclosed fluid supply through the fluid bypass and into contact with the plug.

8. A method as in claim 1, further comprising delaying actuation of the third electronic rupture disc assembly until substantial degradation of the plug.

9. A method as in claim 1, wherein the third electronic rupture disc assembly initially isolates a high pressure chamber, and wherein a high pressure fluid in the high pressure chamber maintains the moveable member in an initial position.

10. A method as in claim 9, wherein actuating the third electronic rupture disc assembly further comprises flowing the high pressure fluid from the high pressure chamber and thereby moving the moveable member into contact with the at least the portion of the cover.

11. A method as in claim 10, wherein moving the moveable member further includes sliding a sleeve longitudinally along the passageway and substantially removing the cover from the passageway.

12. An apparatus for use in a subterranean wellbore and for removing a degradable plug from a passageway extending along a downhole tubular, the degradable plug for blocking fluid flow through the passageway, the apparatus comprising: a fluid chamber having a degrading fluid therein for degrading the plug; a first electronic rupture disc assembly positioned along a fluid bypass having a first rupture disc for selectively blocking flow of the degrading fluid from the fluid chamber through the fluid bypass; and a second electronic rupture disc assembly positioned along the fluid bypass having a second rupture disc for selectively blocking the degrading fluid flowing through the fluid bypass.

13. An apparatus as in claim 12, wherein the degradable plug is initially fluidly isolated.

14. An apparatus as in claim 13, further comprising a cover protecting the degradable plug from the degrading fluid.

15. An apparatus as in claim 12, further comprising a movable member operable to substantially remove a cover from the passageway.

16. An apparatus as in claim 15, wherein the movable member is retained in an initial position by a high pressure fluid in a high pressure chamber and further comprising a third electronic rupture disc assembly having a third rupture disc for selectively blocking flow of the high pressure fluid from the high pressure chamber.

17. A method for removing a degradable barrier plug positioned to block fluid flow through a passageway in a downhole tubular positioned in a subterranean wellbore, the degradable barrier plug substantially isolated from a fluid in the passageway by at least one cover, the method comprising the steps of: actuating a first electronic rupture disc assembly to open a fluid bypass to the degradable plug; substantially degrading the degradable barrier plug; and then actuating a second electronic

rupture disc assembly to allow a movable member to remove at least a portion of the cover substantially out of the passageway.