CLAIMS

1. A well system comprising:

a production tubing;

a sleeve;

a mount disposed between the sleeve and the production tubing;

a flow control device, wherein the flow control device is disposed ~~onto~~ between the production tubing and the sleeve; ~~and~~

a ball check valve disposed between the flow control device and the production tubing to restrict flow into the production tubing through a port in the flow control device, wherein the ball check valve comprises a housing and a ball, wherein a portion of the flow control device is disposed within the housing of the ball check valve; and

a conduit disposed between the sleeve and the production tubing, the conduit in fluid communication with a second flow control device.

2. The well system of claim 1, wherein the conduit extends along a circumference of the production tubing.

~~2. The well system of claim 1, wherein the ball creates a seal against the flow control device.~~

3. The well system of claim 1 ~~or 2~~, wherein the housing comprises an inlet, an outlet, and a check valve internal chamber.

4. The well system of claim 3, wherein the ball is disposed within the check valve internal chamber.

5. The well system of claim ~~3~~1, further comprising a gap disposed between the mount and the production tubing ~~wherein the inlet is disposed along a wall of the check valve internal chamber,~~

~~wherein the outlet is disposed along an opposing wall of the check valve internal chamber from the inlet~~.

6. The well system of ~~any of the previous claims~~claim 1, wherein the ball comprises a dissolvable material.

7. The well system of claim 6, ~~, and optionally,~~ wherein the dissolvable material comprises at least one material selected from the group consisting of an aluminum alloy, a magnesium alloy, a calcium alloy, and an aliphatic polyester material.

8~~7~~. The well system of claim 7~~6~~, wherein the ball further comprises at least one additional material selected from the group consisting of iron, copper, nickel, tin, tungsten, and ~~-~~carbon to increase a standard state reduction potential of the ball.

9~~8~~. The well system of ~~any of the previous claims~~claim 1, wherein the flow control device is an autonomous inflow control device.

10~~9~~. A method of controlling flow of fluids, comprising:

injecting a first fluid into a production tubing, wherein a flow control device is disposed ~~on~~ between a sleeve and the production tubing, wherein a ball check valve is disposed between the flow control device and the production tubing to restrict flow into the production tubing through a port in the flow control device, wherein a mount is disposed between the sleeve and the production tubing, ~~wherein the ball check valve comprises a housing and a ball; and~~

actuating the ball check valve, wherein a portion of the flow control device is disposed within a housing of the ball check valve; and

allowing fluid communication with a second flow control device via a conduit disposed between the sleeve and the production tubing~~wherein the actuating the ball check valve comprises displacing the ball within the housing, wherein the displacing the ball comprises of creating a seal that restricts the flow of the first fluid from the production tubing to the flow control device~~.

11. The method of claim 10, further comprising allowing fluid communication with the second flow control device via the conduit that is disposed along a circumference of the production tubing.

12. The method of claim 11, wherein the actuating the ball check valve comprises displacing a ball within the housing.

13. The method of claim 12, wherein the displacing the ball comprises creating a seal that restricts the fluid from flowing through the ball check valve to the flow control device.

~~10~~14. The method of claim 13~~9~~, further comprising breaking the seal when a second fluid flows from a subterranean formation to the flow control device and into the ball check valve.

~~11~~15. The method of claim ~~9 or 10~~12, wherein the ball comprises at least one material selected from the group consisting of polyurethane, natural rubber, rubber modified polymers, high impact polystyrene, and acrylic rubber.

~~12. The method of any of claims 9 to 11, wherein the ball comprises at least one material selected from the group consisting of an aluminum alloy, a magnesium alloy, a calcium alloy, and an aliphatic polyester material.~~

~~13. The method of claim 12, further comprising of injecting a dissolution fluid into the production tubing to contact the ball, wherein the dissolution fluid comprises an electrolyte.~~

~~14. The method of claim 13, wherein the ball dissolves due to galvanic corrosion in response to contact with the dissolution fluid, wherein the seal breaks.~~

~~15. The method of claim 13, wherein the dissolution fluid is a brine, water, oil, acid, or combination thereof.~~