CLAIMS

What is claimed is:

1. A method, comprising:

positioning a completion assembly in a wellbore penetrating a subterranean formation, the completion assembly providing at least two fracturing assemblies;

conveying a frac plug through the completion assembly;

detecting a wireless signal provided by the frac plug with a sensor included in the fracturing assembly, the wireless signal comprising a digital code;

detecting the digital code provided by the frac plug with the at least two fracturing assemblies;

comparing the digital code detected with the at least two fracturing assemblies with a stored digital code;

actuating a sliding sleeve of the at least two fracturing assemblies based on detection of the wireless signal and thereby moving the sliding sleeve to expose one or more flow ports;

setting the frac plug in the wellbore downhole from the at least two fracturing assemblies;

after setting the frac plug in the wellbore, conveying a wellbore projectile through the completion assembly;

receiving the wellbore projectile with the frac plug, and thereby sealing the wellbore at the frac plug; and

injecting a fluid under pressure into the subterranean formation via the one or more flow ports;

wherein at least one of the at least two fracturing assemblies comprising:

at least one selected from a group comprising a counter that registers a count when the wireless signal is detected and a timer programmed with a predetermined time period, and an electronics module that compares the registered count with a count stored in the fracturing assembly or triggers the timer upon detecting the wireless signal having the digital code, wherein the electronics module controls actuation of the sliding sleeve based on the count or the predetermined time period; and

wherein, when the step of actuating the sliding sleeve is based on the predetermined time period, the actuation of the sliding sleeve comprises:

triggering operation of the timer after comparing the digital code; and

actuating at least one sliding sleeve of the sliding sleeves upon expiration of the predetermined time period.

2. The method of claim 1, wherein, when the step of actuating the sliding sleeve is based on the count, said actuation comprises:

registering a count in the fracturing assembly when the wireless signal is detected;

comparing the registered count with a count stored in the fracturing assembly; and

moving the sliding sleeve to expose one or more flow ports when the registered count and the stored count are same.

3 The method of claim 1, wherein injecting the fluid under pressure into the subterranean formation comes immediately after setting the frac plug.

4. The method of claim 1, further comprising transmitting a confirmation signal with the fracturing assembly to indicate receipt of the wireless signal from the frac plug.

5. The method of claim 1, further comprising drilling out the frac plug after one or more wellbore operations are completed.

6. The method of claim 1, wherein the frac plug is made of a degradable material, the method further comprising allowing the frac plug to degrade following one or more wellbore operations.

7. The method of claim 1, wherein the wireless signal is one of a magnetic signal, an electromagnetic signal, a temperature signal, and an acoustic signal.

8. A method, comprising:

positioning a completion assembly in a wellbore penetrating a subterranean formation, the completion assembly providing a plurality of fracturing assemblies;

conveying a frac plug through the completion assembly;

detecting a digital code provided by the frac plug with a sensor included in each fracturing assembly of the plurality of fracturing assemblies;

comparing the detected digital code with a digital code stored in each corresponding fracturing assembly;

actuating a sliding sleeve of at least one fracturing assembly of the plurality of fracturing assemblies and thereby moving the sliding sleeve to expose one or more flow ports when the detected digital code and the stored digital code are same;

setting the frac plug in the wellbore downhole from the at least one fracturing assembly;

after setting the frac plug in the wellbore, conveying a wellbore projectile through the completion assembly;

receiving the wellbore projectile with the frac plug, and thereby sealing the wellbore at the frac plug; and

injecting a fluid under pressure into the subterranean formation via the one or more flow ports; and, optionally;

the completion assembly defines at least one production interval in the wellbore, and at least two fracturing assemblies of the plurality of fracturing assemblies are positioned in the at least one production interval and the method further comprises actuating the sliding sleeves of the at least two fracturing assemblies simultaneously; and, optionally;

the completion assembly defines at least one production interval in the wellbore, and at least two fracturing assemblies of the plurality of fracturing assemblies are positioned in the at least one production interval and the method further comprises actuating the sliding sleeves of the at least two fracturing assemblies at different times.

9. The method of claim 8, wherein transmitting a digital code comprises transmitting a digital code using at least one of an RFID device and an NFC device.

10. The method of claim 8, wherein injecting the fluid under pressure into the subterranean formation comes immediately after setting the frac plug.

11. A system, comprising:

a completion assembly positioned in a wellbore penetrating a subterranean formation;

fracturing assemblies provided by the completion assembly, each fracturing assembly comprising:

a sliding sleeve that is actuated to move to an open position based on a wireless signal detected in the wellbore; and

a sensor that detects the wireless signal, the wireless signal comprising a digital code;

at least one fracturing assembly comprising:

at least one selected from a group comprising a counter that registers a count when the wireless signal is detected and a timer programmed with a predetermined time period; and

an electronics module that compares the registered count with a count stored in the fracturing assembly or triggers the timer upon detecting the wireless signal having the digital code, wherein the electronics module controls actuation of the sliding sleeve based on the count or the predetermined time period;

a frac plug that communicates the wireless signal and is set and secured in the wellbore downhole from the fracturing assembly; and

a wellbore projectile receivable by the frac plug to seal the wellbore at the frac plug and thereby isolate portions of the wellbore downhole from the frac plug; and wherein the wellbore projectile is conveyed through the completion assembly after the frac plug is set in the wellbore.

12. The system of claim 11, further comprising two or more fracturing assemblies, wherein the sliding sleeves of the two or more fracturing assemblies are actuated simultaneously.

13. The system of claim 11, further comprising two or more fracturing assemblies, wherein the sliding sleeves of the two or more fracturing assemblies are actuated at different times.