

CLAIMS

1. A completion assembly for completing a well, comprising:
 - a generally wye-shaped tubular junction fitting defining an uphole end, a main leg terminating at a downhole main end, and a lateral leg terminating at a downhole lateral end;
 - 5 a completion string connected to one of said main leg and said lateral leg of said junction fitting;
 - a completion tool assembly disposed within said completion string;
 - an anchoring device coupled to said junction fitting;
 - a setting tool at least partially disposed within and removably connected to said
 - 10 anchoring device; and
 - a working string carrying said completion tool assembly and said setting tool, said working string passing through the one of said main leg and said lateral leg of said junction fitting.
- 15 2. The completion assembly of claim 1 wherein said completion tool assembly further comprises:
 - at least one of the group consisting of a gravel packing tool, a cementing tool, a perforating tool, a crossover assembly, an isolation packer, a screen assembly, and a fracturing tool.
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3. The completion assembly of claim 1 or 2 further comprising:
 - a completion tool connector carried along said working string connecting said completion tool assembly to said working string.
- 25 4. The completion assembly of claim 3 wherein:
 - said completion tool connector includes a ratch-latch connection.
5. The completion assembly of any preceding claim wherein:
 - said anchoring device is connected to said uphole end of said junction fitting.
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6. The completion assembly of any preceding claim wherein:
 - said completion tool assembly is dimensioned so as to pass through the one of said main leg and said lateral leg of said junction fitting.

7. The completion assembly of any preceding claim further comprising:
a seal stinger connected to the other of said main end and said lateral end of said
junction fitting, said seal stinger dimensioned to be received within a completion deflector.
- 5 8. The completion assembly of any preceding claim wherein:
said anchoring device is a liner hanger.
9. The completion assembly of any preceding claim further comprising:
a length of casing connected between said junction fitting and said anchoring
10 device.
10. The completion assembly of any preceding claim wherein:
said completion string includes a filter assembly and a packer.
- 15 11. The completion assembly of any preceding claim wherein:
said completion string is a lateral completion string connected to said lateral leg of
said junction fitting.
12. A method for completing a well having a main wellbore and a lateral wellbore,
20 comprising:
running a completion tool assembly into one of said lateral wellbore and said main
wellbore concurrently with running and installing a junction fitting at an intersection of said
lateral wellbore and said main wellbore; and then
removing said completion tool assembly from said one of said lateral wellbore and
25 said main wellbore through said junction fitting.
13. The method of claim 12 further comprising:
running a completion string into said one of said lateral wellbore concurrently with
said running and installing said junction fitting.
- 30 14. The method of claim 12 or 13 further comprising:
coupling said junction fitting to an anchoring device;
disconnectably carrying said anchoring device by a setting tool;
carrying said setting tool and said completion tool assembly by a working string;
35 and

lowering said completion tool assembly and said junction fitting into said well via said working string.

15. The method of claim 14 further comprising:
5 passing said working string through a lateral leg of said junction fitting;
 running said completion tool assembly and a lateral completion string into said lateral wellbore concurrently with running and installing a junction fitting at said intersection of said lateral wellbore and said main wellbore; and then
 removing said completion tool assembly from said lateral wellbore through said
10 lateral leg of said junction fitting.
16. The method of claim 15 further comprising:
 setting said anchoring device within said main wellbore by said setting tool;
 disconnecting said setting tool from said anchoring device; then
15 selectively conveying said completion tool assembly within said lateral wellbore by said working string; and
 performing a completion operation by said completion tool assembly.
17. The method of any one of claims 12 to 16 wherein:
20 said completion tool assembly includes a gravel packing tool; and
 the method further comprises performing a gravel packing operation within said lateral wellbore by said completion tool assembly.
18. The method of any one of claims 12 to 17 wherein:
25 said completion tool assembly includes a cementing tool; and
 the method further comprises performing a cementing operation within said lateral wellbore by said completion tool assembly.
19. The method of claim 15 further comprising:
30 lowering a portion of said lateral completion string into said wellbore;
 lowering said completion tool assembly into said lateral completion string; then connecting said junction fitting to said lateral completion string; and then connecting a portion of said working string to said completion tool assembly through said junction fitting.

20. The method of claim 19 further comprising:
connecting said portion of said working string to said completion tool assembly
using a ratch-latch connection.

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21. The method of claim 19 or 20 further comprising:
disposing said setting tool within said anchoring device;
connecting said setting tool to said anchoring device; then
connecting said setting tool to said portion of said working string; and then coupling
10 said anchoring device to said junction fitting.

22. The method of any one of claims 19 to 21 further comprising:
connecting said anchoring device to said junction fitting with at least one length of
casing.

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23. The method of any one of claims 15 to 22 further comprising:
providing a filter assembly and a packer along said lateral completion string.

24. The method of any one of claims 15 to 23 further comprising:
20 positioning a completion deflector in said main wellbore;
deflecting said lateral completion string into said lateral wellbore by said
completion deflector; and
connecting said junction fitting to said completion deflector.

25 25. The method of any one of claims 15 to 24 further comprising:
connecting an upper completion string segment to said anchoring device.