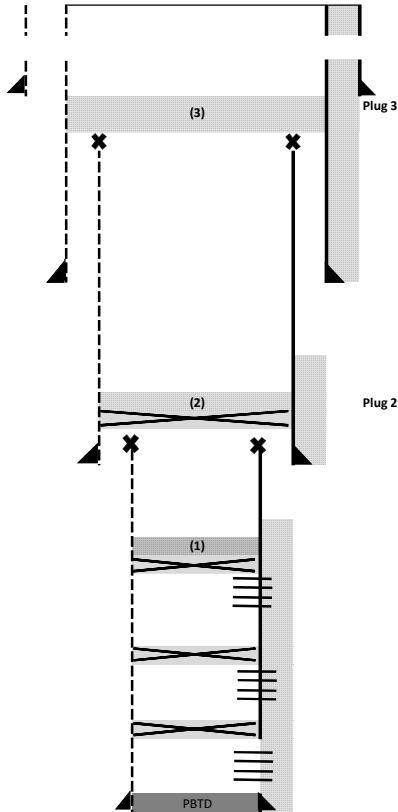


MC 20 Well A 001 Option 1

MD	TVD
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A-1 P&A Scenario:
 Pull Completion (Quantum packer is retrieval or drillable-see as built schematic. Leave everything below EZSV. Everything below EZSV appears to be proper barrier). Cut and pull



MD	TVD
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WD	479
RKB	69.5
RKB to ML	548.5
Cut point 30" x 16"	563.5

30" shoe	875
Top of Plug	698.5
Bottom of plug	898.5
10-3/4" cut point	898.5

TOC (annulus)	548.5
16" shoe	1529

TOC (annulus)	3595
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TOC (wellbore)	3900
Bridge Plug	3950
7" cut point	4000
10-3/4" shoe	4095

TOC (annulus)	8470	
TOC (wellbore)	8870	
Bridge Plug	8920	
L Top Perf	8970	8499
L Base Perf	9012	8538

EZSV	9018	
L-1 Top Perf	9126	8643
L-1 Base Perf	9146	8662

CIBP	9235	
Tubing cut	9240	
M Sand Top Perf	9553	
M Sand Base Perf	9885	
7" shoe	9970	9424
TD	9976	9424

Requirement: BSSE	Leak Path Addressed	Testing/Verification Requirements
Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	wellbore to seafloor	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (3) Cut and pull 10-3/4" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.	10-3/4" x 16" annulus	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Possible Alt. Compliance - set plug deeper, may leave excessive cement in BOP stack		

PLUG 3 IS A COMBINATION BARRIER FOR:
 250.1715.a.(8) A well with casing:
 AND
 250.1715.a.(4) A casing stub where the stub end is within the casing

Plug (2) Cut and pull 7" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing: (ii) A cement retainer or bridge plug set at least 50 to 100 feet above the stub end with at least 50 feet of cement on top of the retainer or bridge plug; or	7" x 10-3/4" annulus	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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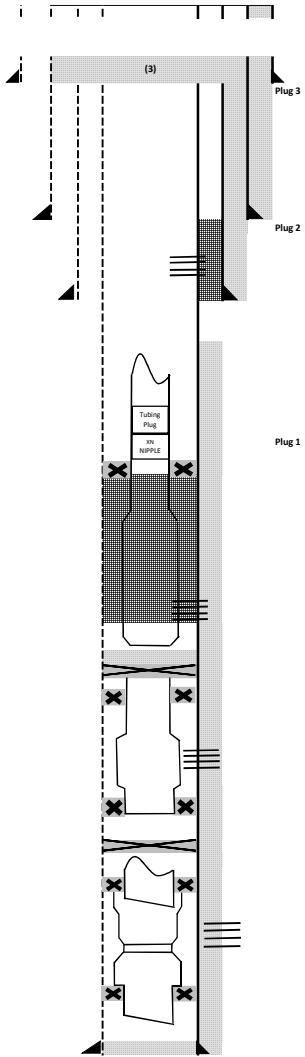
Plug (1) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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MC 20 Well A 001 Option 3

MD TVD

A-1 P&A Scenario option 3:
 M and L-1 Sands previously abandoned with bridge plugs and cement.
 Squeeze L Sand perf.
 Install tubing plug in XN landing nipple @ 8794 ft MD
 Cut 2-7/8" tubing @ ~8694 ft MD (~ 100 ft above tubing plug)
 Pull tubing.

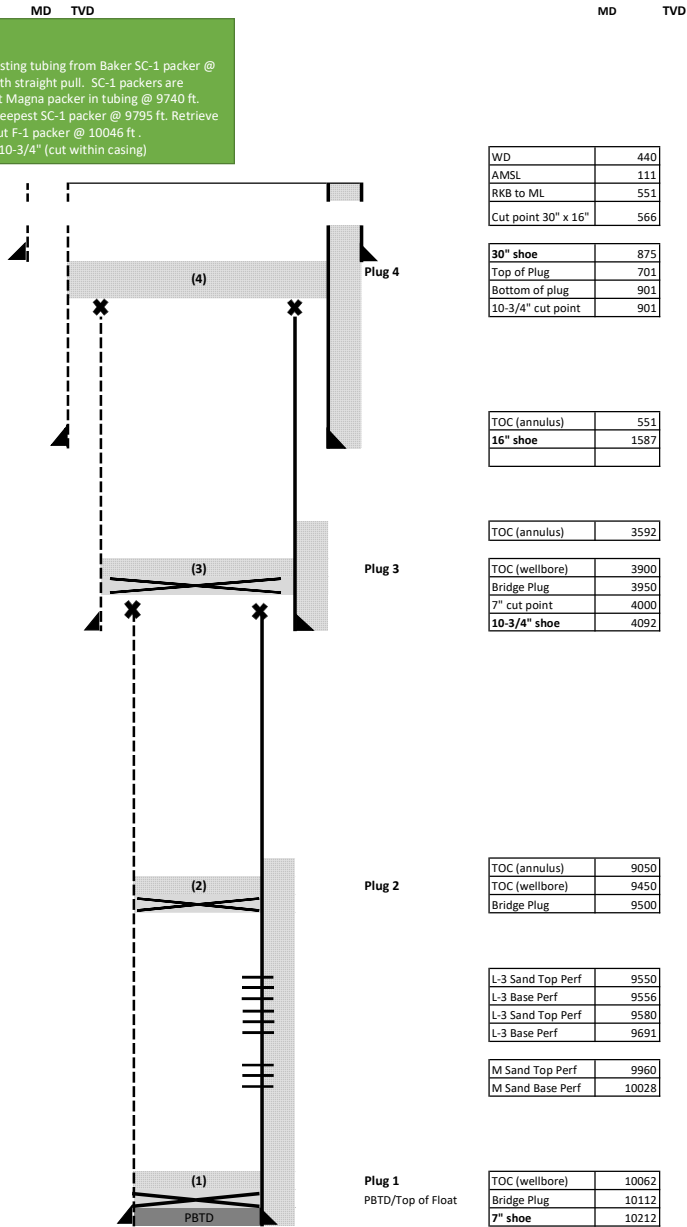
Assumptions: See embedded Notes



MD	TVD
WD	479
RKB	70
RKB to ML	549
Cut point	
30"x16"x10-3/4"x7"	564
30" shoe	889
Top of Plug	699
Bottom of plug	849
7" x 10-3/4" cut	849
TOC (annulus)	549
16" shoe	1529
Perforate 7" casing, squeeze cement to B annulus	
TOC (annulus)	3585
10-3/4" shoe	4095
TOC (annulus)	8470
2-7/8" tubing cut point	8694
Tubing Plug XN Nipple	8794
Quantum packer	8841
Top of screen	8956
L Sand Top Perf	8970
L Sand Base Perf	9012
TOC	8930
EZSV	9018
Quantum Packer	9023
Top of screen	9118
L-1 Sand Top Perf	9126
L-1 Sand Base Perf	9146
Sump packer	9150
CIBP	9235
Tubing cut	9240
SC-1 Perf	9295
M Sand Top Perf	9553
M Sand Base Perf	9885
Baker F-1 packer	9898
7" shoe/TD	9976
	9424

Requirement: BSSE	Leak Path Addressed	Testing/Verification Requirements
30"x16"x10-3/4"x7" Sever 250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.		
Plug [3] BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7" Wellbore	Allow for sufficient WOC. tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug [3] Cut and pull 7" & 10-3/4" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing (8) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.	10-3/4" x 16" annulus (C annulus) and 7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC. tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug [2] BSSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 feet long set in the annular space.	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC
Plug [1] Land tubing plug in X landing nipple, 47 ft above packer	L-sand perfs through 2-3/8" tubing	Allow for sufficient WOC. Pressure test.
Squeeze cement through L-Sand Perforations	Isolation of L sands	

A-2 P&A Scenario:
 Pull Completion: Unsting tubing from Baker SC-1 packer @ 9279 ft & 9712 ft with straight pull. SC-1 packers are retrievable. Mill out Magna packer in tubing @ 9740 ft. Straight pull from deepest SC-1 packer @ 9795 ft. Retrieve SC-1 packer. Drill out F-1 packer @ 10046 ft. Cut and pull 7" and 10-3/4" (cut within casing).



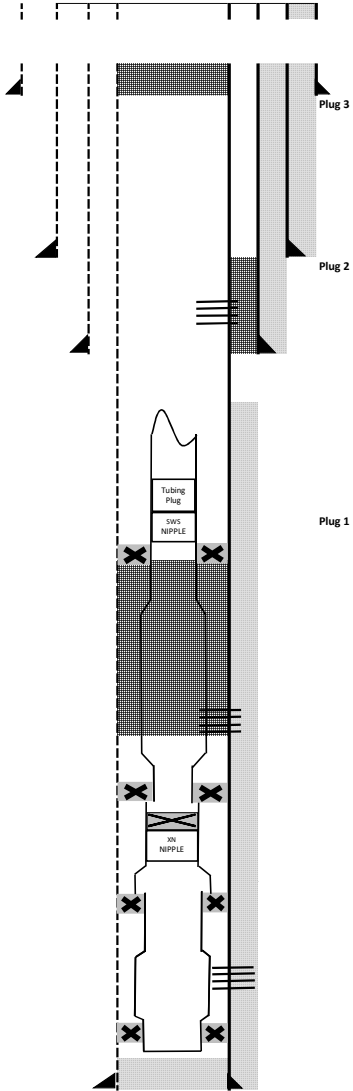
Requirement: BSSE	Leak Path Addressed	Testing/Verification Requirements
Plug (4) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	wellbore to seafloor	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (4) Cut and pull of 10-3/4" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.	10-3/4" x 16" annulus	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
PLUG 4 IS A COMBINATION BARRIER FOR: 250.1715.a.(8) A well with casing: AND 250.1715.a.(4) A casing stub where the stub end is within		
Plug (3) Cut and pull of 7" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing: (iii) A cement retainer or bridge plug set at least 50 to 100 feet above the stub end with at least 50 feet of cement on top of the retainer or bridge plug; or	7" x 10-3/4" annulus	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (2) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (1) BSEE: 250.420.b.(3) ...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.	Possible failure of wellbore cement below float collar	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

MD TVD

A-2 P&A Scenario option 2:

M Sands previously abandoned with bridge plug.
 Squeeze L-3 Sand perfs.
 Install tubing plug in SWS nipple@ 9241 ft MD
 Cut 2-7/8" tubing @ ~9141 ft MD (~ 100 ft above tubing plug)
 Pull tubing.

Assumptions: See embedded Notes



MD TVD

WD	479
RKB	54
RKB to ML	533
Cut point 30"x16"x10- 3/4"x7"	548

30" shoe	890
Top of Plug	683
Bottom of plug	833

TOC (annulus)	533
16" shoe	1589

TOC (annulus)	3592
10-3/4" shoe	4092

TOC (annulus)	9050
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2-7/8" tubing cut point	9141
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Tubing Plug	9241
XN Nipple	9241
Baker SC-1 Packer	9279

L-3 Sand Top Perf	9550
L-3 Sand Base Perf	9601

Baker SC-1 Packer	9712
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Bridge Plug	9740
XN Nipple	10261

Baker SC-1 Packer	9795
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Top of screen	10524
M Sand Top	9960
M Sand Base	10028

Baker F-1 Packer	10046
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PBTD/TOF	10112
7" shoe/TD	10212

Requirement: BSSE Leak Path Addressed Testing/Verification Requirements

This option does not consider 10-3/4" x 16" possible leak path.

This option does not address **250.420.b(3)**...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.

250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.	N/A	
Plug (3) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

Plug (2) Perforate 7" casing, squeeze cement to B annulus BSSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline:	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC
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Plug (1) Tubing plug set in SWS nipple.	L-3 -sand perfs through 2-3/8" tubing	Allow for sufficient WOC. Pressure test.
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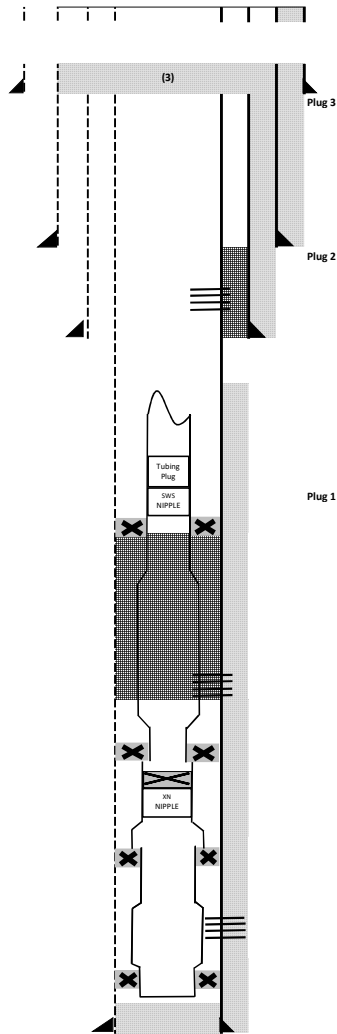
Squeeze cement through L-3 Sand Perforations	Isolation of L-3 Sands	
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MD TVD

A-2 P&A Scenario option 2:

M Sands previously abandoned with bridge plug.
 Squeeze L-3 Sand perfs.
 Install tubing plug in SWS nipple @ 9241 ft MD
 Cut 2-7/8" tubing @ ~9141 ft MD (~100 ft above tubing plug)
 Pull tubing.

Assumptions: See embedded Notes



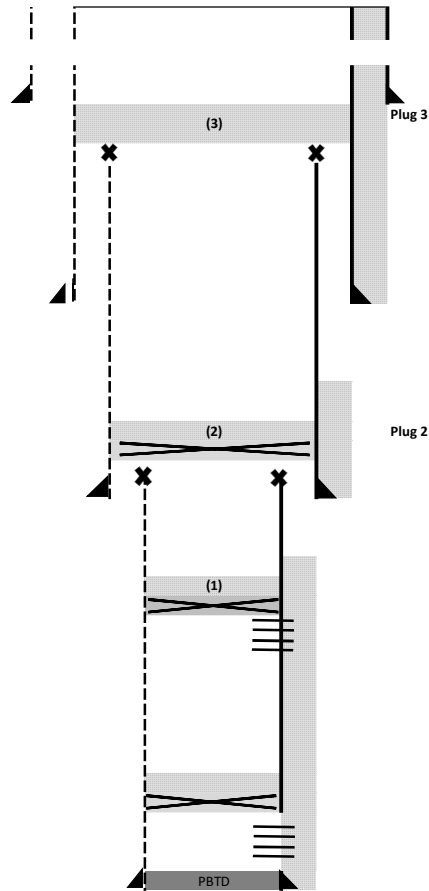
MD	TVD
WD	479
RKB	54
RKB to ML	533
Cut point 30"x16"x10-3/4"x7"	548
30" shoe	890
Top of Plug	683
Bottom of plug	833
7" x 10-3/4" cut	833
TOC (annulus)	533
16" shoe	1589
TOC (annulus)	3592
10-3/4" shoe	4092
TOC (annulus)	9050
2-7/8" tubing cut point	9141
Tubing Plug	9241
XN Nipple	9241
Baker SC-1 Packer	9279
L-3 Sand Top Perf	9550
L-3 Sand Base Perf	9691
Baker SC-1 Packer	9712
Bridge Plug	9740
XN Nipple	10261
Baker SC-1 Packer	9795
Top of screen	10524
M Sand Top	9960
M Sand Base	10028
Baker F-1 Packer	10046
PBTD/TOF	10112
7" shoe/TD	10212

Requirement: BSSE	Leak Path Addressed	Testing/Verification Requirements
This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment		
30"x16"x10-3/4"x7" Sever 250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.		
Plug (3) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7" wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (3) Cut and pull 7" & 10-3/4" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing (ii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.	10-3/4" x 16" annulus (C annulus) and 7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (2) Perforate 7" casing, squeeze cement to B annulus BSSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline:	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC
Plug (1) Tubing plug set in SWS nipple.	L-3 sand perfs through 2-3/8" tubing	Allow for sufficient WOC. Pressure test.
Squeeze cement through L-3 Sand Perforations	Isolation of L-3 sands	

MD TVD

A-3 P&A Scenario:
 Pull Completion. EZSV previously set as barrier above M-Sands. Setting depth does not abide by 250.1715.a(3). EZSV is set 184 ft above upper perf. Regulatory depth for bridge plug is no more than 100 ft above upper-most perf. 15 bbls of cement squeezed below EZSV. Does EZSV need to be reset? As-built schematic shows permanent packer @ 8388 ft and production packer @ 8247 ft. No indication of manufacturer. These will likely have to be milled.

Assumptions: See embedded Notes



MD TVD

9.5 ppg CaCl2 left in hole

WD	479
RKB	54
RKB to ML	533
Cut point 30" x 16"	548

30" shoe	815
Top of Plug	683
Bottom of plug	883
10-3/4" cut point	883

TOC (annulus)	533
16" shoe	1529

TOC (annulus)	3450
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TOC (wellbore)	3750
Bridge Plug	3800
7" cut point	3850
10-3/4" shoe	3950

TOC (annulus)	7848
TOC (wellbore)	8248
Bridge Plug	8298
J Top Perf	8348
J Base Perf	8375

TOC	9972
EZSV	10080
Tubing cut	
M Sand Top Perf	10264
M Sand Base Perf	10327
7" shoe	12040

Requirement: BSSE **Leak Path Addressed** **Testing/Verification Requirements**

Plug (3) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	wellbore to seafloor	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (3) Cut and pull 10-3/4" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom	10-3/4" x 16" annulus	
Possible Alt. Compliance - set plug deeper, may leave excessive cement in BOP stack		

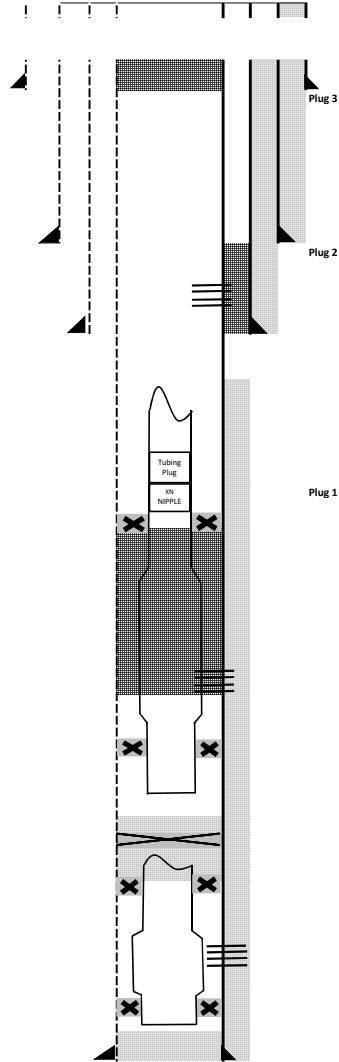
PLUG 3 IS A COMBINATION BARRIER FOR:
 250.1715.a.(8) A well with casing;
 AND
 250.1715.a (4) A casing stub where the stub end is within the casing

Plug (2) Cut and pull 7" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing: (ii) A cement retainer or bridge plug set at least 50 to 100 feet above the stub end with at least 50 feet of cement on top of the retainer or bridge plug;	7" x 10-3/4" annulus	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (1) BSSE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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MD TVD

A-3 P&A Scenario option 2:
 M Sands previously abandoned with EZSV and cement.
 Squeeze J Sand perfs.
 Install tubing plug in XN landing nipple @ 8204 ft MD
 Cut 2-7/8" tubing @ ~8104 ft MD (~100 ft above tubing plug)
 Pull tubing.
 Assumptions: See embedded Notes



MD TVD

WD	479
RKB	54
RKB to ML	533
Cut point 30"x16"x10- 3/4"x7"	548

30" shoe	815
Top of Plug	683
Bottom of plug	833

TOC (annulus)	533
16" shoe	1595

TOC (annulus)	3450
10-3/4" shoe	3950

TOC (annulus)	7848
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2-7/8" tubing cut point	8104
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Tubing Plug	8204
XN Nipple	8204
Production Packer	8247

J Sand Top Perf	8348
J Sand Base Perf	8375

Perm Packer	8388
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XN Nipple	10261
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EZSV	10880
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Baker SC-1 packer	10104
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Top of screen	10253
M Sand Top	10264
M Sand Base	10327

Baker F-1 packer	10340
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P8TD/TOF	10667
7" shoe/TD	12048

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

This option does not consider 10-3/4" x 16" possible leak path.
 This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.

250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.	N/A	
Plug (1) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

Plug (2) Perforate 7" casing, squeeze cement to B annulus BSEE: 250.1715(a)(8) An annular space that communicates with open hole and extends to the mudline:	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC
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Plug (1) Tubing plug set in XN landing nipple.	J-sand perfs through 2-7/8" tubing	Allow for sufficient WOC. Pressure test.
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Squeeze cement through J Sand Perforations	J sand perfs to wellbore	
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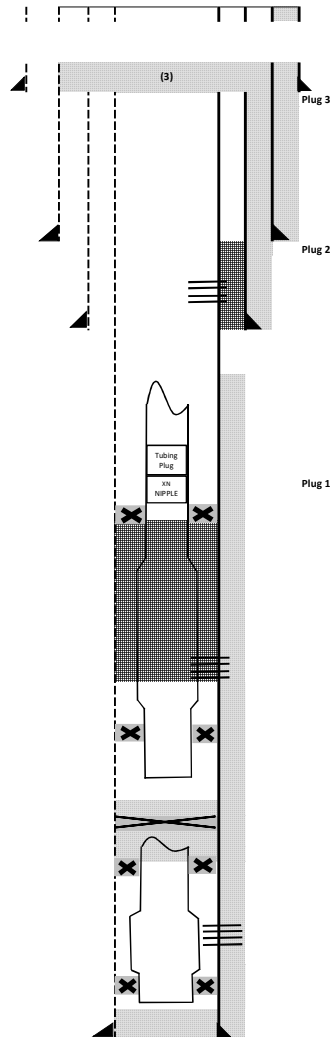
A-3 As Built well schematic indicates: 20 ft of cement pumped above tubing plug 4 bbis above EZSV 15 bbis below EZSV	M sand perfs through 2-7/8" tubing	
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MD TVD

A-3 P&A Scenario option 3:

M Sands previously abandoned with EZSV and cement.
 Squeeze J Sand perfs.
 Install tubing plug in XN landing nipple @ 8204 ft MD
 Cut 2-7/8" tubing @ ~8104 ft MD (~100 ft above tubing plug)
 Pull tubing.

Assumptions: See embedded Notes



WD	479
RKB	54
RKB to ML	533
Cut point 30"x16"x10-3/4"x7"	548

30" shoe	815
Top of Plug	683
Bottom of plug	833
7" x 10-3/4" cut	833

TOC (annulus)	533
16" shoe	1595

TOC (annulus)	3450
10-3/4" shoe	3950

TOC (annulus)	7848
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2-7/8" tubing cut point	8104
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Tubing Plug	8204
XN Nipple	8204
Production Packer	8247

J Sand Top Perf	8348
J Sand Base Perf	8375

Perm Packer	8388
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XN Nipple	10261
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EZSV	10880
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Baker SC-1 packer	10104
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Top of screen	10253
M Sand Top	10264
M Sand Base	10327

Baker F-1 packer	10340
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PBTD/TOF	10667
7" shoe/TD	12048

Requirement: BSSE	Leak Path Addressed	Testing/Verification Requirements
<p>30"x16"x10-3/4"x7" Sever 250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud</p>		
<p>Plug (3) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</p> <p>Plug (3) Cut and pull 7" & 10-3/4" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing (B) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.</p>	7" Wellbore	<p>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</p> <p>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</p>
<p>Plug (2) Perforate 7" casing, squeeze cement to B annulus BSSE: 250.1715(b)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.</p>	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC
<p>Plug (1) Tubing plug set in XN landing nipple.</p>	J-sand perfs through 2-7/8" tubing	Allow for sufficient WOC. Pressure test.
Squeeze cement through J Sand Perforations	Isolation of J sands	
<p>A-3 As Built well schematic indicates: 10% of cement pumped above tubing plug 4 bbis above EZSV 15 bbis below EZSV</p>	M sand perfs through 2-7/8" tubing	

MD TVD

A-4 P&A Scenario:

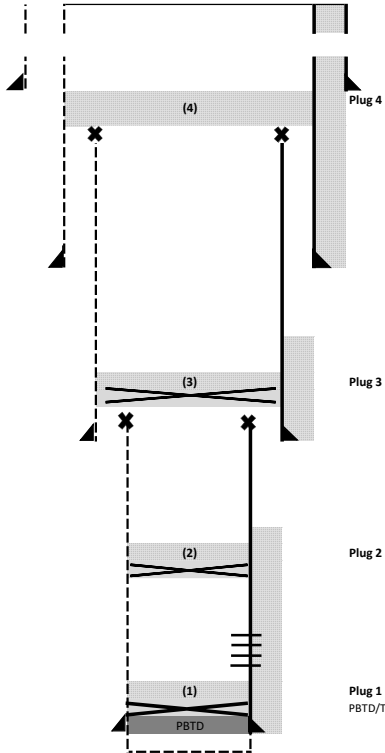
Unsting tubing from Baker SC-1 packer @ 9585 ft.
 Retrieve SC-1 packer.
 Cut tubing above deep-set perm packer.
 Pull 2-7/8" tubing.
 Retrieve/drill out packer.

Cut and pull 9-5/8" and 13-3/8" (cut within casing)

Assumptions: See embedded Notes

9.9 ppg CaCl2 left in hole

MD TVD



WD	440
AMSL	111
RKB to ML	551
cut point 30" x 20"	566

30" shoe	815
Top of Plug	701
Bottom of plug	901
13-3/8" cut point	901

TOC (annulus)	551
20" shoe	1590

TOC (annulus)	3000
TOC (wellbore)	3300
Bridge Plug	3350
9-5/8" cut point	3400
13-3/8" shoe	3500

TOC (annulus)	9298
TOC (wellbore)	9698
Bridge Plug	9748

M Sand Top Perf	9798	9031
M Sand Base Perf	9981	9166

TOC (wellbore)	11355
Bridge Plug	11405
9-5/8" shoe	11564
TD	14232

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

Plug (4) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	wellbore to seafloor	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (4) Cut and pull of 13-3/8" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.	13-3/8" x 20" annulus	
Possible Alt. Compliance - set plug deeper, may leave excessive cement in BOP stack		

PLUG 4 IS A COMBINATION BARRIER FOR:
 250.1715.a.(8) A well with casing:
 AND
 250.1715.a.(4) A casing stub where the stub end is within

Plug (3) Cut and pull of 9-5/8" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing: (ii) A cement retainer or bridge plug set at least 50 to 100 feet above the stub end with at least 50 feet of cement on	9-5/8" x 13-3/8" annulus	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (2) BSSE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified	isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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BSSE: 250.420.b.(3) For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment	Possible failure of wellbore cement below float collar	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (1) BSSE: 250.1715(a)(2) Open hole below casing: (ii) A bridge plug set 50 ft to 100 ft above the shoe with 50 ft of cement on top of the bridge plug, for expected or known lost circulation.		
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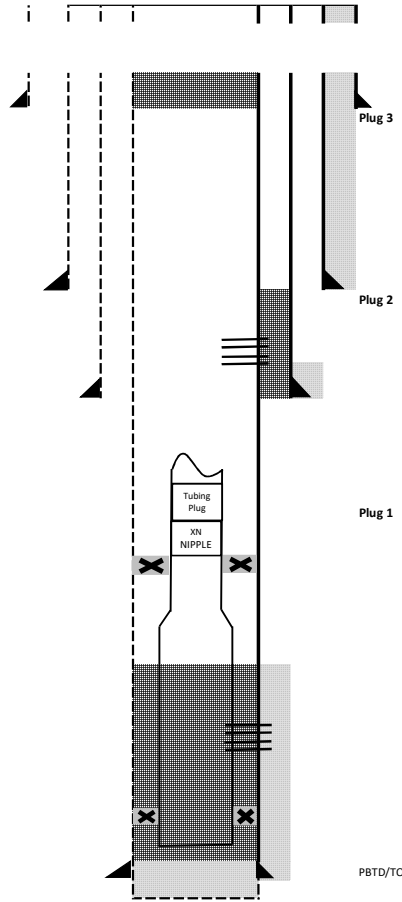
PLUG 1 IS A COMBINATION BARRIER FOR:
 250.1715.a.(2) Open hole below casing:
 AND
 250.420.b.(3) Final casing string with mechanical and cement

MD TVD

A-4 P&A Scenario option 2:

Squeeze M-sand perfs.
 Install tubing plug@ XN Nipple (9521 ft MD)
 Cut tubing @ ~9421 ft MD (~ 100 ft above tubing plug)
 Pull tubing.

Assumptions: See embedded Notes



MD	TVD
WD	479
RKB	52
RKB to ML	531
Cut point 30"x16"x10-3/4"x7"	546
30" shoe	815
Top of Plug	681
Bottom of plug	831
TOC (annulus)	531
20" shoe	1590
TOC (annulus)	3000
13-3/8" shoe	3500
2-7/8" Tubing Cut point	9421
Tubing Plug	9521
XN Nipple	9521
Baker SC-1 packer	9585
TOC (annulus)	9298
M Sand Top Perf	9798
M Sand Base Perf	9984
packer	11405
9-5/8" shoe	11564
TD	14232

Requirement: BSSE **Leak Path Addressed** **Testing/Verification Requirements**

This option does not consider 10-3/4" x 16" possible leak path.

This option does not address **250.420.b(3)**...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or

250.1716.(a) To what depth must I remove wellheads and casings?
 Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.

N/A

Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.
 All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (2) Perforate 7" casing, squeeze cement to B annulus BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline:	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (1) Tubing plug in XN Nipple @ 9521 ft MD.	M-sand perfs through 2-7/8" tubing	Allow for sufficient WOC. Pressure test.
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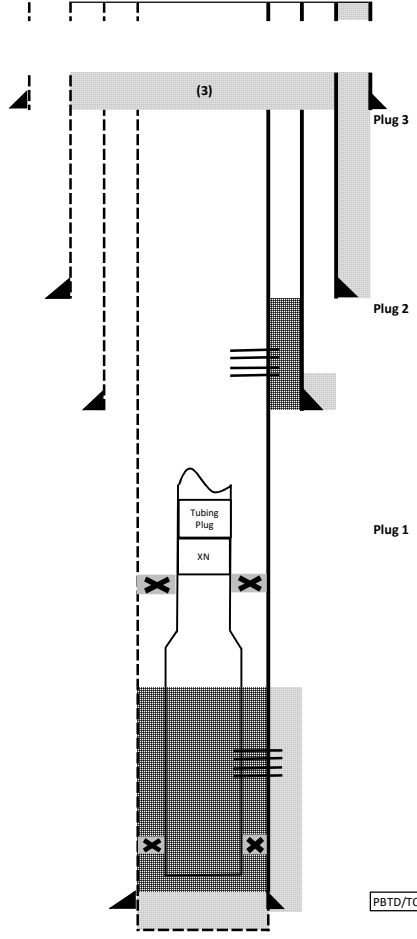
Squeeze cement through M Sand Perforations	Isolation of M sands	
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MD TVD

A-4 P&A Scenario option 3:

Squeeze M-sand perfs.
 Install tubing plug@ XN Nipple (9521 ft MD)
 Cut tubing @ ~9421 ft MD (~ 100 ft above tubing plug)
 Pull tubing.

Assumptions: See embedded Notes



WD	479
RKB	52
RKB to ML	531
Cut point	
30" x16" x10-3/4" x7"	546

30" shoe	815
Top of Plug	681
Bottom of plug	831
7" x 10-3/4" cut	831

TOC (annulus)	531
20" shoe	1590

TOC (annulus)	3000
13-3/8" shoe	3500

2-7/8" Tubing Cut point	9421
Tubing Plug	9521
XN Nipple	9521

Baker SC-1 packer	9585
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TOC (annulus)	9298
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M Sand Top Perf	9798
M Sand Base Perf	9984

packer	11405
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PBTD/TOF	9-5/8" shoe	11564
	TD	14232

Requirement: BSSE Leak Path Addressed Testing/Verification Requirements

This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment

<p>30"x20"x13-3/8"x9-5/8" Sever</p> <p>250.1716.(a) To what depth must I remove wellheads and casings?</p> <p>Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.</p>		
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<p>Plug (3)</p> <p>BSEE: 250.1715(a)(8) A well with casing:</p> <p>A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</p>	9-5/8" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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<p>Plug (3)</p> <p>Cut and pull 7" & 10-3/4"</p> <p>BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing</p> <p>(iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.</p>	13-3/8" x 20" annulus (C annulus) and 9-5/8" x 13-3/8" annulus (B annulus)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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<p>Plug (2)</p> <p>Perforate 7" casing, squeeze cement to B annulus</p> <p>BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline:</p> <p>A cement plug at least 200 ft long set in the annular space.</p>	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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<p>Plug (1)</p> <p>Tubing plug in XN Nipple @ 9521 ft MD.</p>	M-sand perfs through 2-7/8" tubing	Allow for sufficient WOC time. Pressure test.
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Squeeze cement through M Sand Perforations	Isolation of M sands	
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A-5 P&A:

The A-5 well was abandoned as per BSEE regulations. The well was drilled to a TD of 8813 ft MD/7478 ft TVD, however 7" production casing was never set.)

Requirement: BSSE	Addressed via:	Notes:
<p>250.1715 How must I permanently plug a well? (a)(2) Open hole below casing: You must... (iii) A bridge plug set 50 feet to 100 feet above the shoe with 50 feet of cement on top of the bridge plug, for expected or known lost circulation conditions</p>	<p>EZSV set in 10-3/4" casing @ 3612 ft MD ~99ft of cement pumped on top of bridge plug</p>	
<p>(a) (3) A perforated zone that is currently open and not previously squeezed or isolated: You must.... (B) A casing bridge plug set 50 to 100 feet above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug;</p>	<p>Perforations in 10-3/4" casing (996ft - 1000ft) Retainer set @ 989 ft, ~7 ft above upper-most perf, with 259 ft of cement pumped on top of retainer</p>	
<p>(8) A well with casing: You must... A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mud line.</p>	<p>259 ft of cement pumped on top of retainer in 10-3/4" casing (smallest casing string)</p>	
<p>250.1716.a. (a) Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.</p>	<p>10-3/4" x 16" x 30" cut at 60 ft BML</p>	<p>*According to A-5 As Built schematic, casings could not be pulled after cut.</p>

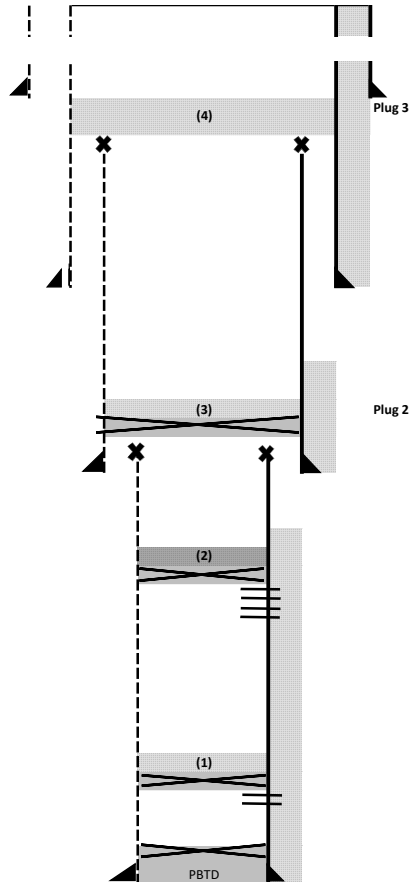
MD TVD

A-6 P&A Scenario:
 Pull Completion. Bridge plug previously set as barrier above wireline formation test perf and set within 50-100 ft of the perforation (250.1715.a(3)). However, bridge plug will need to be removed in order to install a proper barrier to abide by 250.420.b.(3).
 Bridge plug to be set @ ~ 12,497 ft MD (PBDT). Assuming PBDT is top of float, there is ~ 83 ft of cement below the float.

Baker F-1 Sump Packer @ 10,854 ft MD. Drillable.
 Unsting from Baker SC-1 packer @ 10,554 ft MD. SC-1 packer is retrievable.

10.5 ppg CaCl2 left in hole

MD TVD



WD	479
RKB	53
RKB to ML	532
Cut point 30"x16"	547

30" shoe	875
Top of Plug	682
Bottom of plug	882
10-3/4" cut point	882

TOC (annulus)	532
16" shoe	1595

TOC (annulus)	3025
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TOC (wellbore)	3325
Bridge Plug	3375
7" cut point	3425
10-3/4" shoe	3525

TOC (annulus)	10270
TOC (wellbore)	10670
Bridge Plug	10720
N Top Perf	10770
N Base Perf	10839

TOC (wellbore)	10979
Bridge Plug	11029
WL formation test per	11079

Bridge plug	12497
PBDT/TOF	12497
7" shoe	12580

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

<p>Plug (4) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</p>	wellbore to seafloor	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
<p>Plug (4) Cut and pull 10-3/4" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.</p>	10-3/4" x 16" annulus	
excessive cement in BOP stack (historical West Auriga BHP to BP)		

PLUG 4 IS A COMBINATION BARRIER FOR:

250.1715.a.(8) A well with casing;
 AND
 250.1715.a (4) A casing stub where the stub end is within the casing

<p>Plug (3) Cut and pull 7" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing: (ii) A cement retainer or bridge plug set at least 50 to 100 feet above the stub end with at least 50 feet of cement on top of the retainer or bridge plug;</p>	7" x 10-3/4" annulus	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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<p>Plug (2) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug</p>	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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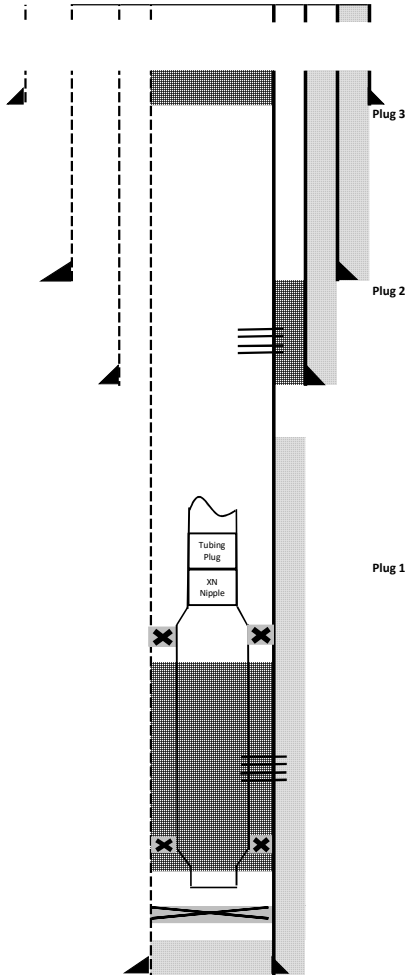
<p>Plug (1) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug</p>	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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<p>Deepest Bridge Plug BSEE: 250.420.b.(3) ...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.</p>	Possible failure of wellbore cement below float collar	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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MD TVD

A-6 P&A Scenario option 2:
 Squeeze N-sand perfs.
 Install tubing plug in XN landing nipple @ 10542 ft MD
 Cut and pull 2-7/8" tubing 100 ft above tubing plug.
 Assumptions: See embedded Notes

MD TVD



WD	479
RKB	53
RKB to ML	532
Cut point 30"x16"x10- 3/4"x7"	547

30" shoe	875
Top of Plug	682
Bottom of plug	832

TOC (annulus)	532
16" shoe	1595

TOC (annulus)	532
10-3/4" shoe	3525

TOC (annulus)	10270
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Top of tubing	10442
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Tubing Plug	10542
XN Nipple	10542

Baker SC-1 packer	10554
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N Sand Top Perf	10770
N Sand Base Perf	10839

Baker F-1 Sump Packer	10854
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Bridge plug	11025
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PBTD/TOF	12497
7" shoe/TD	12580

Requirement: BSSE Leak Path Addressed Testing/Verification Requirements

This option does not address 250.420.b(3) ...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These

30"x16"x10-3/4"x7" Sever 250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud		
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Plug (3) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (3) Cut and pull 7" & 10-3/4" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.	10-3/4" x 16" annulus (C annulus) and 7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

Plug (2) Perforate 7" casing, squeeze cement to B annulus BSSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC, tag up with agreed upon weight. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (1) Land tubing plug in X landing nipple @ 10542 ft MD.	N-sand perfs through 2-7/8" tubing	Allow for sufficient WOC time. Pressure Test
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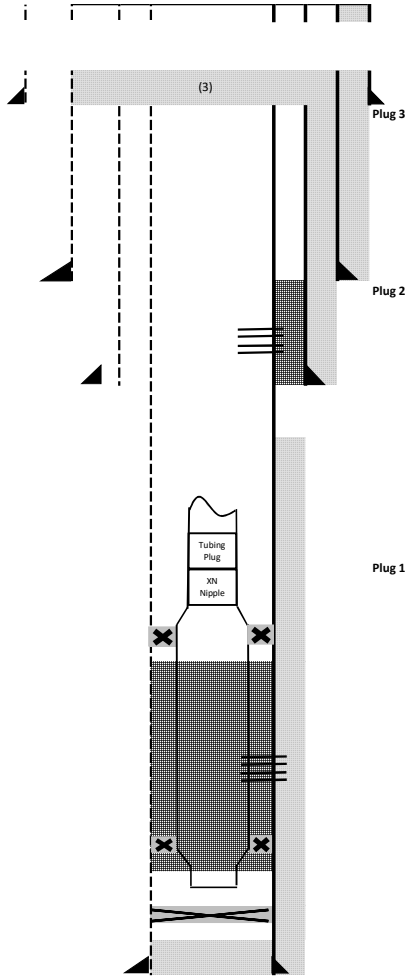
Squeeze cement through N Sand Perforations	Isolation of N sands	
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MD TVD

A-6 P&A Scenario option 3:

Squeeze N-sand perfs.
 Install tubing plug in XN landing nipple @ 10542 ft MD
 Cut and pull 2-7/8" tubing 100 ft above tubing plug.

Assumptions: See embedded Notes



MD TVD

WD	479
RKB	53
RKB to ML	532
Cut point	
30"x16"x10-3/4"x7"	547

30" shoe	875
Top of Plug	682
Bottom of plug	832
7" x 10-3/4" cut	832

TOC (annulus)	532
16" shoe	1595

TOC (annulus)	532
10-3/4" shoe	3525

TOC (annulus)	10270
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Top of tubing	10442
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Tubing Plug	10542
XN Nipple	10542

Baker SC-1 packer	10554
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N Sand Top Perf	10770
N Sand Base Perf	10839

Baker F-1 Sump Packer	10854
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Bridge plug	11025
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PBD/TOF	12497
7" shoe/TD	12580

Requirement: BSSE Leak Path Addressed Testing/Verification Requirements

This option does not consider 10-3/4" x 16" possible leak path.

This option does not address **250.420.b(3)**...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or

250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.	N/A	
Plug (3) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

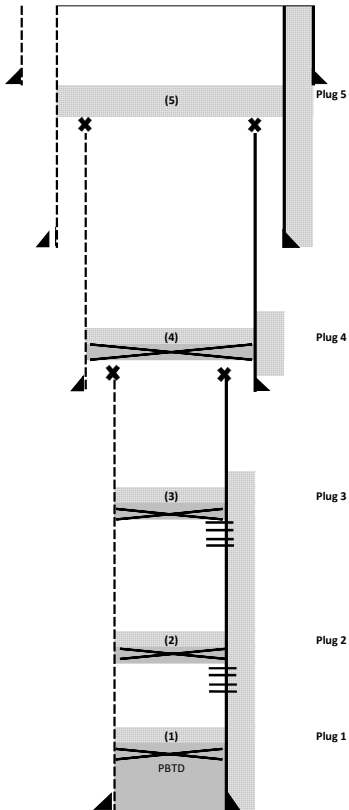
Plug (2) Perforate 7" casing, squeeze cement to B annulus BSSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC, tag up with agreed upon weight. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (1) Land tubing plug in X landing nipple, 12 ft above packer	N-sand perfs through 2-7/8" tubing	Allow for sufficient WOC time. Pressure Test
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Squeeze cement through N Sand Perforations	Isolation of N sands.	
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A-7 P&A Scenario:
 Pull Completion:
 Cut and pull 2-7/8" tubing from above Baker DB packer @ 8200.
 Retrieve/drill out packer.
 Drill out cement and CIBP @ ~9200 ft MD.
 Cut tubing above sump packer set @ 9491 ft MD.
 Unset from Baker SC-1 packer @ 9238 ft MD and pull completion.
 Drill out sump packer.
 Assumptions: See embedded Notes

MD TVD



MD TVD

WD	479
RKB	53
RKB to ML	532

30" shoe	890
Top of Plug	682
Bottom of plug	882
10-3/4" cut point	882

TOC (annulus)	532
16" shoe	1590

TOC (annulus)	3100
TOC (wellbore)	3400
Bridge Plug	3450
7" cut point	3500
10-3/4" shoe	3600

TOC (annulus)	8896
TOC (wellbore)	8908
Bridge Plug	8958
L-1 Sand Top Perf	9008
L-1 Sand Base Perf	9022

TOC (wellbore)	9296
Bridge Plug	9346
M Sand Top Perf	9396
M SandBase Perf	9476

TOC (wellbore)	11140
Bridge Plug	11190
PBTD	no indication of PBTD on schematic
7" shoe	11290

Requirement: BSSE Leak Path Addressed Testing/Verification Requirements

Plug (5) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	wellbore to seafloor	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (5) Cut and pull of 1 3/8" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end. Possible Alt. Compliance - set plug deeper, may leave excessive cement in BOP stack	10-3/4" x 16" annulus	

PLUG 5 IS A COMBINATION BARRIER FOR:
 250.1715.a.(8) A well with casing:
 AND
 250.1715.a (4) A casing stub where the stub end is within the casing

Plug (4) Cut and pull of 7" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing: (B) A cement retainer or bridge plug set at least 50 to 100 feet above the stub end with at least 50 feet of cement on top of the retainer or bridge plug; or	7" x 10-3/4" annulus	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (3) BSSE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug	isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (2) BSSE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug	isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (1) BSSE: 250.420.b.(3) ... For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.	Possible failure of wellbore cement below float collar (PBTD)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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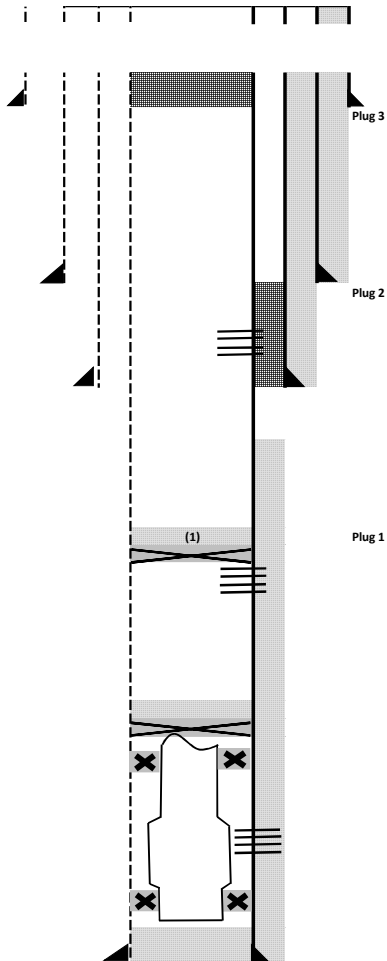
PLUG 1 IS A COMBINATION BARRIER FOR:
 250.1715.a.(2) Open hole below casing:
 AND
 250.420.b.(3) Final casing string with mechanical and cement

MD TVD

A-7 P&A Scenario option 2:

M Sands previously abandoned with CIBP and cement.
 Cut and pull 2-7/8" tubing above Baker DB packer @ 8200 ft MD.
 Retrieve/drill out Baker DB packer.
 Set bridge plug with 50 ft of cement above L-1 Sand perfs.

Assumptions: See embedded Notes



WD	479
RKB	53
RKB to ML	532
Cut point 30"x16"x10- 3/4"x7"	547
30" shoe	890
Top of Plug	682
Bottom of plug	832

TOC (annulus)	532
16" shoe	1593

TOC (annulus)	3100
10-3/4" shoe	3600

TOC (annulus)	8508
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TOC (wellbore)	8908
CIBP	8958
L-1 Sand Top Perf	9008
L-1 Sand Base Perf	9022

TOC	9150
CIBP	9200

Baker SC-1 Packer	9238
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Top of screen	9387
M Sand Top	9396
M Sand Base	9476

Sump Packer	9491
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7" shoe/TD	11290
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MD TVD

Requirement: BSSE Leak Path Addressed Testing/Verification Requirements

This option does not consider 10-3/4" x 16" possible leak path.

This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or

<p>250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.</p>	N/A	
<p>Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</p>	7" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

<p>Plug (2) Perforate 7" casing, squeeze cement to B annulus BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 feet long set in the annular space.</p>	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC
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<p>Plug (1) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug</p>	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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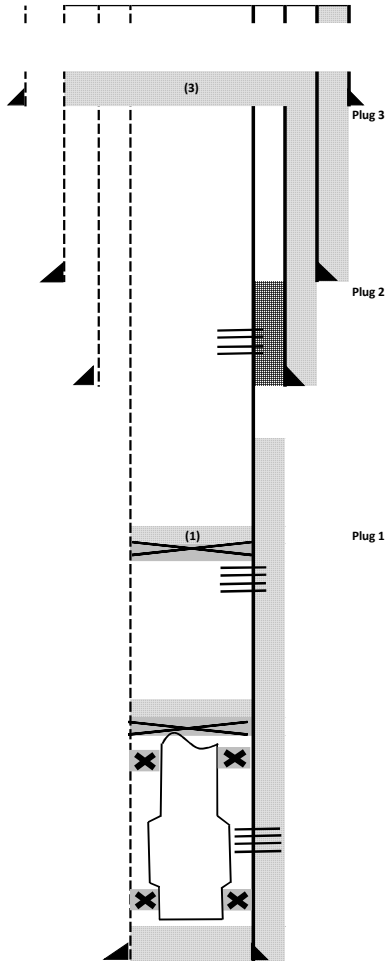
<p>A-7 As Built well schematic indicates: 50 ft of cement pumped above CIBP</p>	Isolation of M Sands	
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MD TVD

A-7 P&A Scenario option 2:
 M Sands previously abandoned with CIBP and cement.
 Cut and pull 2-7/8" tubing above Baker DB packer @ 8200 ft MD.
 Retrieve/drill out Baker DB packer.
 Set bridge plug with 50 ft of cement above L-1 Sand perfs.

Assumptions: See embedded Notes

MD TVD



WD	479
RKB	53
RKB to ML	532
Cut point 30"x16"x10- 3/4"x7"	547

30" shoe	890
Top of Plug	682
Bottom of plug	832
7" x 10-3/4" cut	832

TOC (annulus)	532
16" shoe	1593

Perforate 7" casing, squeeze cement to B annulus

TOC (annulus)	3100
10-3/4" shoe	3600

TOC (annulus)	8508
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TOC (wellbore)	8908
CIBP	8958
L-1 Sand Top Perf	9008
L-1 Sand Base Perf	9022

TOC	9150
CIBP	9200

Baker SC-1 Packer	9238
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Top of screen	9387
M Sand Top	9396
M Sand Base	9476

Sump Packer	9491
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7" shoe/TD	11290
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Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or

<p>30"x16"x10-3/4"x7" Sever</p> <p>250.1716.(a) To what depth must I remove wellheads and casings?</p> <p>Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.</p>		
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<p>Plug (3)</p> <p>BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</p>	7" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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<p>Plug (3)</p> <p>Cut and pull 7" & 10-3/4"</p> <p>BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing</p> <p>(iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.</p>	10-3/4" x 16" annulus (C annulus) and 7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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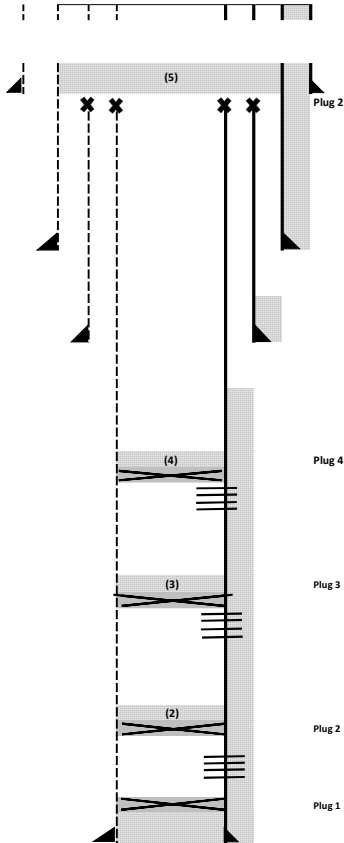
<p>Plug (2)</p> <p>BSSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline:</p> <p>A cement plug at least 200 feet long set in the annular space.</p>	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC
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<p>Plug (1)</p> <p>BSSE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated</p> <p>(iii) If perforated zones are isolated from the hole below, you may use plugs specified</p> <p>(B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug</p>	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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<p>A-7 As Built well schematic indicates: 50 ft of cement pumped above CIBP</p>	Isolation of M Sands	
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MD TVD

A--8 P&A Scenario option 1:
 Pull entire completion above L-1 Test perf.
 Pull 2-7/8" tubing from Baker SC-1 packer @ 8086 ft MD.
 Retrieve SC-1 packer.
 Pull 8" gauge screen.
 Retrieve Baker F-1 packer @ 8275 ft MD.
 Drill out cement plug @ 8930 ft MD.
 Retrieve Baker SC-1 packer @ 9109 ft MD.
 Pull 8" gauge screen.
 Retrieve Baker F-1 packer @ 9305 ft MD.
 Drill out EZSV @ 9470 ft MD.
 Drill out cement below EZSV.
 Retrieve Baker F-1 packer @ 9617 ft MD.
 Assumptions: See embedded Notes



MD TVD

WD	479
RKB	53
RKB to ML	532
Cut point 30"x16"x10-3/4"x7"	547
30" shoe	890
Top of Plug	682
Bottom of plug	832
7" x 10-3/4" cut point	832

TOC (annulus)	532
16" shoe	1620

TOC (annulus)	3015
10-3/4" shoe	3515

TOC (annulus)	7720
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TOC (wellbore)	8120
Bridge Plug	8170
J Sand Top Perf	8220
J Sand Base Perf	8260

TOC	9164
Bridge Plug	9214
L Sand Top Perf	9264
L Sand Base Perf	9290

TOC	9375
Bridge Plug	9480

L-1 Sand Test Top Perf	9530
L-1 Sand Test Base Perf	9602

Bridge Plug	10796
P8TD/TOF	10796
7" shoe/TD	10885
	9950

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

<p>30"x16"x10-3/4"x7-5/8" Sever 250.1715.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.</p>		
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<p>Plug (5) BSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</p>	N/A	<p>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</p>
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<p>Plug (5) Cut and pull 7-5/8" & 10-3/4" BSE: 250.1715(a)(4) A casing stub where the stub end is within the casing (B) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.</p>	<p>10-3/4" x 16" (C) annulus 7" x 10-3/4" (B)annulus</p>	<p>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</p>
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PLUG 5 IS A COMBINATION BARRIER FOR:
 250.1715.a.(8) A well with casing;
 AND
 250.1715.a.(4) A casing stub where the stub end is within the casing
 AND
 250.1715.a.(7) A subsea well with unsealed annulus

<p>Plug (4) BSE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (ii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug</p>	Isolation of perforations	<p>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</p>
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<p>Plug (2) BSE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug</p>	Isolation of perforations	<p>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</p>
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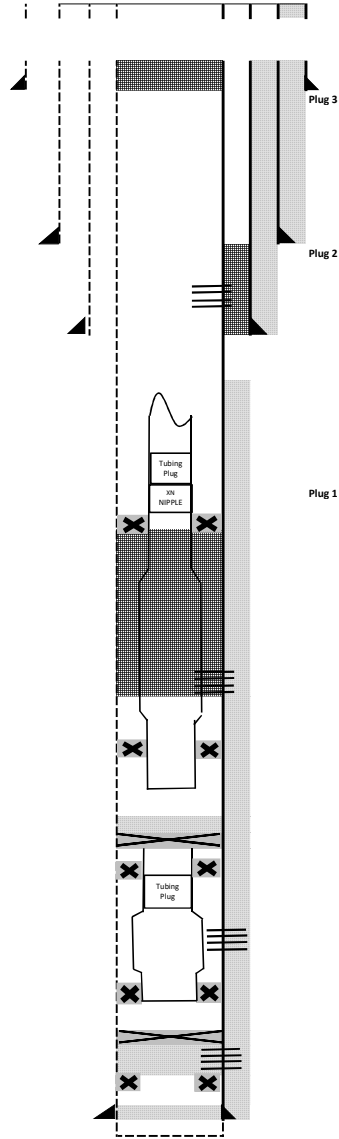
<p>Plug (2) BSE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug</p>	Isolation of perforations	<p>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</p>
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<p>Plug (1) BSE: 250.420.b.(1) For the float casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment</p>	Possible failure of wellbore cement below float collar	<p>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</p>
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MD TVD

A-8 P&A Scenario option 1:

L-1 and L Sands previously abandoned with bridge plugs and cement.
 Squeeze J Sand perfs.
 Install tubing plug in XN landing nipple @ 8075 ft MD
 Cut 2-7/8" tubing @ ~7975 ft MD (~100 ft above tubing plug)
 Pull tubing.



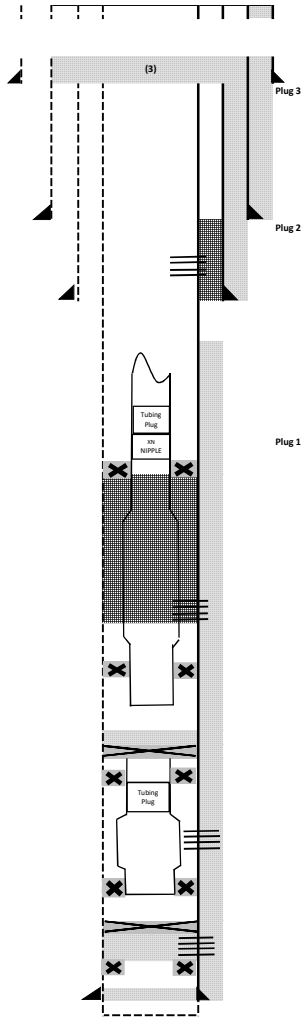
MD	TVD
WD	479
RKB	53
RKB to ML	532
Cut point 30"x16"x10- 3/4"x7"	547
30" shoe	890
Top of Plug	682
Bottom of plug	832
TOC (annulus)	532
16" shoe	1620
TOC (annulus)	3015
10-3/4" shoe	3515
TOC (annulus)	7720
2-7/8" tubing cut point	7975
Tubing Plug	8075
XN Nipple	8075
Baker SC-1 packer	8086
Top of screen	8203
J Sand Top Perf	8220
J Sand Base Perf	8260
Baker F-1 packer	8275
TOC	8930
CIBP	9089
Baker SC-1 packer	9109
Top of screen	9257
L Sand Top Perf	9264
L Sand Base Perf	9290
Baker F-1 packer	9617
EZSV	9470
L-1 Test Top Perf	9530
L-1 Test Base Perf	9602
Baker F-1 packer	9617
7" shoe	10875
TD	10885

Requirement: BSSE	Leak Path Addressed	Testing/Verification Requirements
This option does not consider 10-3/4" x 16" possible leak path.		
This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or		
250.1716(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.	N/A	
Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (2) Perforate 7" casing, squeeze cement to B annulus BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC
Plug (1) Land tubing plug in X landing nipple, 11 ft above packer	J-sand perfs through 2-3/8" tubing	Allow for sufficient WOC. Pressure test.
Squeeze cement through J- Sand Perforations	Isolation of J sand perfs	
A-8 As Built Schematic indicates L-1 sand was watered out. It also indicates that 31 sacks of class H cement were squeezed below the bridge plug set @ 9089 ft MD	L sand perfs through 2-7/8" tubing	

MD TVD

A-8 P&A Scenario option 3:
 L-1 and L Sands previously abandoned with bridge plugs and cement.
 Squeeze J Sand perfs.
 Install tubing plug in XN landing nipple @ 8075 ft MD
 Cut 2-7/8" tubing @ ~7975 ft MD (~100 ft above tubing plug)
 Pull tubing.

Assumptions: See embedded Notes



WD	479	
RKB	53	
DKB to ML	532	
Cut point	30"x16"x10-3/4"x7"	547

30" shoe	890
Top of Plug	682
Bottom of plug	832
7" x 10-3/4" cut	832

TOC (annulus)	532
16" shoe	1620

TOC (annulus)	3015
10-3/4" shoe	3515

TOC (annulus)	7720
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2-7/8" tubing cut point	7975
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Tubing Plug	8075
XN Nipple	8075
Baker SC-1 packer	8086

Top of screen	8203
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J Sand Top Perf	8220
J Sand Base Perf	8260

Baker F-1 packer	8275
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TOC	8930
CIBP	9089

Baker SC-1 packer	9109
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Top of screen	9257
L Sand Top Perf	9264
L Sand Base Perf	9290

Baker F-1 packer	9617
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E2SV	9470
L-1 Test Top Perf	9530
L-1 Test Base Perf	9602
Baker F-1 packer	9617

7" shoe	10875
TD	10885

This option does not address 250.420.b(3). For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These

30"x16"x10-3/4"x7" Sewer 250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud		
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Plug (3) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (3) Cut and pull 7" & 10-3/4" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing (8) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.	10-3/4" x 16" annulus (C annulus) and 7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (2) Perforate 7" casing, squeeze cement to B annulus BSSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC
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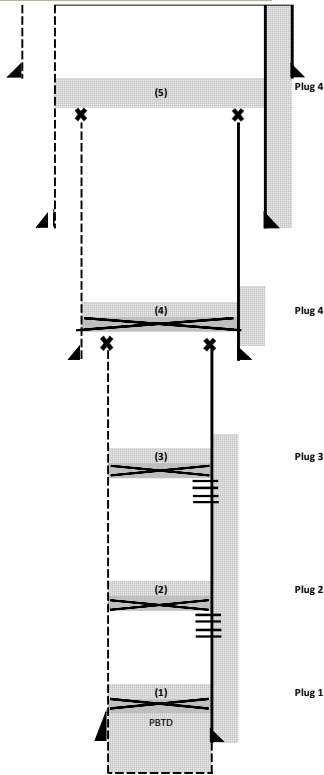
Plug (1) Land tubing plug in X landing nipple, 11 ft above packer	J-sand perfs through 2-3/8" tubing	Allow for sufficient WOC. Pressure test.
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Squeeze cement through J- Sand Perforations	Isolation of J perfs	
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A-8 As Built Schematic indicates L-1 sand was watered out. It also indicates that 21 sacks of class H cement were squeezed below the bridge plug set @ 9089 ft MD	L sand perfs through 2-7/8" tubing	
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MD TVD

A-9 P&A Scenario:
 Pull Completion:
 Unstring tubing from Baker SC-1 packer @ 7803 ft. Retrieve SC-1 packer.
 Pull tubing from Baker F-1 packer @ 7986. F-1 packer is drillable.
 250.420.b was not originally abided by. In order to satisfy the requirement drill through cement retainer @ 8015 ft MD and cement supposedly placed across J Sand Test Perfs. Install bridge plug above PBTD with 50 ft of cement above bridge plug.
 7" and 10-3/4" (cut within casing)
 Assumptions: See embedded Notes



MD TVD

WD	479
RRB	53
RRB to ML	532

30" shoe	890
Top of Plug	682
Bottom of plug	882
10-3/4" cut point	882

TOC (annulus)	532
16" shoe	1590

TOC (annulus)	3120
TOC (wellbore)	3420
Bridge Plug	3470
7" cut point	3520
10-3/4" shoe	3620

TOC (annulus)	7540
TOC (wellbore)	7830
Bridge Plug	7880
J Sand Top Perf	7930
J Sand Base Perf	7969

TOC (wellbore)	7940
Bridge Plug	7990
J Sand Test Top Perf	8040
J Sand Test Base Perf	8084
	9166

TOC (wellbore)	8510
Bridge Plug	8560
PBTD	8560
7" shoe	8640

TD	8647
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Requirement: BSE

Leak Path Addressed

Testing/Verification Requirements

<p>Plug (5) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</p>	wellbore to seafloor	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
<p>Plug (5) Cut and pull of 13-3/8" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end. Possible Alt. Compliance - set plug deeper, may leave excessive cement in BOP stack</p>	13-3/8" x 20" annulus	

PLUG 5 IS A COMBINATION BARRIER FOR:
 250.1715.a.(8) A well with casing:
 AND
 250.1715.a.(4) A casing stub where the stub end is within

<p>Plug (4) Cut and pull of 7" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing: (i) A cement retainer or bridge plug set at least 50 to 100 feet above the stub end with at least 50 feet of cement on top of the retainer or bridge plug; or</p>	7" x 10-3/4" annulus	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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<p>Plug (3) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (ii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug</p>	isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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<p>BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug</p>	isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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<p>Plug (1) BSEE: 250.420.b.(3) ...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.</p>	Possible failure of wellbore cement below float collar (PBTD)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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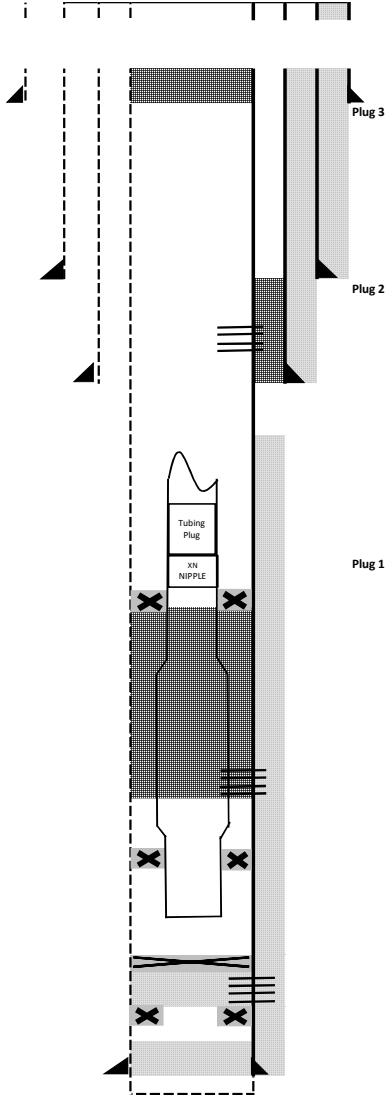
<p>Plug (1) BSEE: 250.1715.a.(2) Open hole below casing... (ii) A bridge plug set 50 feet to 100 feet above the shoe with 50 feet of cement on top of the bridge plug, for expected or known lost circulation conditions</p>	Possible failure of wellbore cement below float collar (PBTD)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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PLUG 1 IS A COMBINATION BARRIER FOR:
 250.1715.a.(2) Open hole below casing:
 AND
 250.420.b.(3) Final casing string with mechanical and cement

MD TVD

MD TVD

A-9 P&A Scenario option 2:
 Squeeze J Sand perfs.
 Install tubing plug in XN landing nipple@ 7792
 Cut tubing @ ~7692ft MD (~100 ft above tubing plug)
 Pull tubing.
 Assumptions: See embedded Notes



WD	479
RKB	53
RKB to ML	532
Cut point 30"x16"x10- 3/4"x7"	547

30" shoe	890
Top of Plug	682
Bottom of plug	832

TOC (annulus)	532
16" shoe	1590

TOC (annulus)	3120
10-3/4" shoe	3620

TOC (annulus)	7430
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2-7/8" tubing cut point	7692
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Tubing Plug	7792
XN Nipple	7792
BH SC-1 packer	7803

J Sand Top Perf	7930
J Sand Base Perf	7969

BH F-1 Sump Packer	7986
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Retainer	8015
J Sand Test Top Pe	8040
J Sand Test Base Pe	8084

PBTD/TOF	8560
7" shoe	8640
TD	8647

Requirement: BSSE Leak Path Addressed Testing/Verification Requirements

This option does not consider 10-3/4" x 16" possible leak path.
 This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or

250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line. Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	N/A 7" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (2) Perforate 7" casing, squeeze cement to B annulus BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline:	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC time.
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Plug (1) Tubing plug set in XN landing nipple.	J-sand perfs through 2-7/8" tubing	Allow for sufficient WOC. Pressure test.
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Squeeze cement through J Sand Perforations	Isolation of J Sand Perfs	
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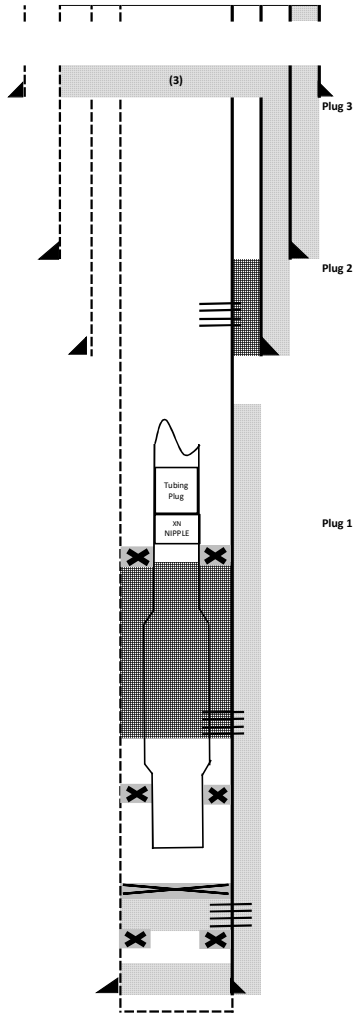
J Sand Test Perfs indicated WET as per A-9 as built well		
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MD TVD

A-9 P&A Scenario option 3:

Squeeze J Sand perfs.
 Install tubing plug in XN landing nipple@ 7792
 Cut tubing @ ~7692ft MD (~ 100 ft above tubing plug)
 Pull tubing.

Assumptions: See embedded Notes



MD TVD

WD	479
RKB	53
RKB to ML	532
Cut point	
30"x16"x10-3/4"x7"	547

30" shoe	890
Top of Plug	682
Bottom of plug	832
7" x 10-3/4" cut	832

TOC (annulus)	532
16" shoe	1590

TOC (annulus)	3120
10-3/4" shoe	3620

TOC (annulus)	7430
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2-7/8" tubing cut point	7692
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Tubing Plug	7792
XN Nipple	7792
BH SC-1 packer	7803

J Sand Top Perf	7930
J Sand Base Perf	7969

BH F-1 Sump Packer	7986
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Retainer	8015
J Sand Test Top Perf	8040
J Sand Test Base Pt	8084

PBTD/TOF	8560
7" shoe	8640
TD	8647

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

This option does not address **250.420.b(3)**...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment

30"x16"x10-3/4"x7" Sever 250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud		
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Plug (3) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (3) Cut and pull 7" & 10-3/4" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.	10-3/4" x 16" annulus (C annulus) and 7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (2) Perforate 7" casing, squeeze cement to B annulus BSSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7" x 10-3/4" annulus (B annulus)	
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Plug (1) Tubing plug set in XN landing nipple.	J sand perfs through 2-7/8" tubing	Pressure test
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Squeeze cement through J Sand Perforations	Isolation of J sand perfs	Allow for sufficient WOC. Pressure test.
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J Sand Test Perfs indicated WET as per A-9 as built well	Isolation of J Sand Test perfs	
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MD TVD

A-10 P&A Scenario:
 Pull Completion (Unsting tubing from Baker SC-1 packer @ 9741 ft with straight pull). * Cut and pull 7" and 10-3/4" (cut within casing)
 Assumptions: See embedded Notes
 *Can SC-1 packer be retrieved? Drillable? Cut and pull tubing below packer with 8" gauge screen

MD TVD

WD	440
AMSL	111
RKB to ML	551

30" shoe	875
Top of Plug	701
Bottom of plug	901
10-3/4" cut point	901

16" shoe	1587
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TOC (annulus)	3282
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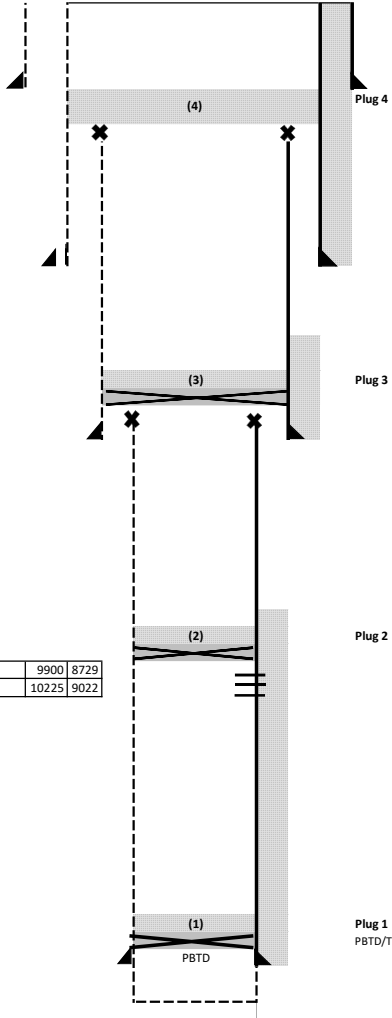
TOC (wellbore)	3500
Bridge Plug	3550
7" cut point	3600
10-3/4" shoe	3782

TOC (annulus)	9400
TOC (wellbore)	9800
Bridge Plug	9850
L-3 Sand Top Perf	9900
L-3 Sand Base Perf	9980

TOC (wellbore)	12030
Bridge Plug	12080
7" shoe	12160

TD	12180	10835
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L-3 Sand Formation	9900	8729
L-3 Sand Formation	10225	9022



Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

Plug (4) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	wellbore to seafloor	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (4) Cut and pull of 10-3/4" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.	10-3/4" x 16" annulus	
Possible Alt. Compliance - set plug deeper, may leave excessive cement in BOP stack		

PLUG 4 IS A COMBINATION BARRIER FOR:
 250.1715.a.(8) A well with casing;
 AND
 250.1715.a.(4) A casing stub where the stub end is within

Plug (3) Cut and pull of 7" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing: (ii) A cement retainer or bridge plug set at least 50 to 100 feet above the stub end with at least 50 feet of cement on top of the retainer or bridge plug; or	7" x 10-3/4" annulus	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (2) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (1) BSEE: 250.1715(a)(2) Open hole below casing: (iii) A bridge plug set 50 ft to 100 ft above the shoe with 50 ft of cement on top of the bridge plug, for expected or known lost circulation.	Possible failure of wellbore cement below float collar	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (1) BSEE: 250.420.b.(3) ...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.	Possible failure of wellbore cement below float collar	

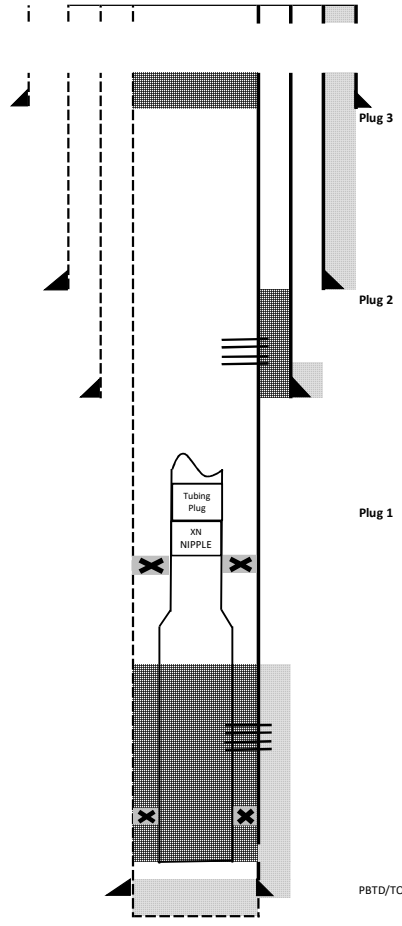
PLUG 1 IS A COMBINATION BARRIER FOR:
 250.1715.a.(2) Open hole below casing;
 AND
 250.420.b.(3) Final casing string with mechanical and

MD TVD

A-10 P&A Scenario option 2:

Squeeze L-3-sand perfs.
 Install tubing plug@ X Nipple (9708 ft MD)
 Cut tubing @ ~9608 ft MD (~ 100 ft above tubing plug)
 Pull tubing.

Assumptions: See embedded Notes



MD TVD

WD	440
AMSL	111
RKB to ML	551
Cut point 30"x16"x10-3/4"x7"	566

30" shoe	875
Top of Plug	701
Bottom of plug	851

TOC (annulus)	551
16" shoe	1587

TOC (annulus)	3282
10-3/4" shoe	3782

2-7/8" Tubing Cut point	9606
Tubing Plug	9706
X Nipple	9706
Baker SC-1 packer	9741

TOC (annulus)	9400
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L-3 Sand Top Perf	9900	8729
L-3 Sand Base Perf	9980	8799

Baker F-1 sump packel	9999
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PBTD/TOF	12080
7" shoe	12160
TD	12180

Requirement: BSSE **Leak Path Addressed**

This option does not consider 10-3/4" x 16" possible leak path.

This option does not address **250.420.b(3)**...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion

Testing/Verification Requirements

250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.	N/A	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

Plug (2) Perforate 7" casing, squeeze cement to B annulus BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (1) Tubing plug in X Nipple @ 9706 ft MD.	L-3 sand perfs through 2-7/8" tubing	Pressure test
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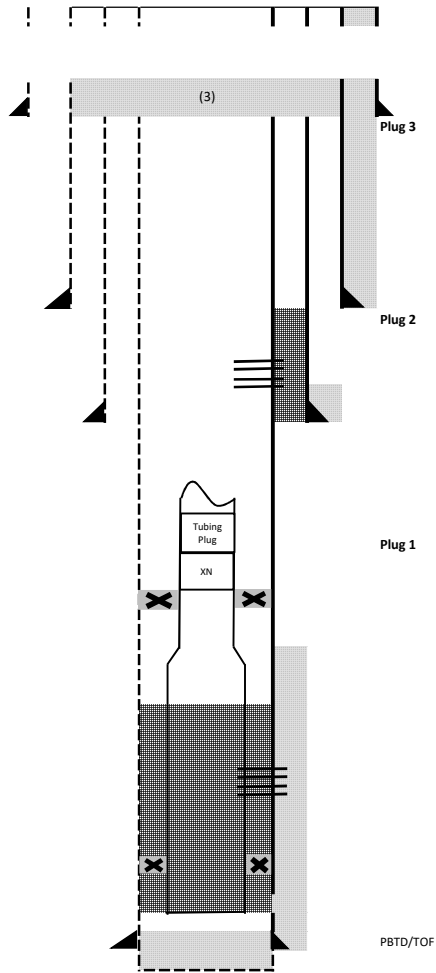
Squeeze cement through L-3 Sand Perforations	Isolation of L-3 perforations	Allow for sufficient WOC time. Pressure test.
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MD TVD

A-10 P&A Scenario option 3:

Squeeze L-3 sand perfs.
 Install tubing plug@ X Nipple (9708 ft MD)
 Cut tubing @ ~9608 ft MD (~ 100 ft above tubing plug)
 Pull tubing.

Assumptions: See embedded Notes



WD	440
AMSL	111
RKB to ML	551
Cut point 30"x16"x10-3/4"x7"	566

30" shoe	875
Top of Plug	701
Bottom of plug	851
7" x 10-3/4" cut	851

TOC (annulus)	551
16" shoe	1587

Perforate 7" casing, squeeze cement to B annulus

TOC (annulus)	3282
10-3/4" shoe	3782

2-7/8" Tubing Cut point	9608
Tubing Plug	9708
X Nipple	9708

Baker SC-1 packer	9741
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TOC (annulus)	9400
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L-3 Sand Top Perf	9900	8729
L-3 Sand Base Perf	9980	8799

Baker F-1 sump packer	9999
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PBDT/TOF	12080
7" shoe	12160
TD	12180

MD TVD

Requirement: BSSE Leak Path Addressed Testing/Verification Requirements

This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or

30"x16"x10-3/4"x7" Sever 250.1716-(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.		
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Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (3) Cut and pull 7" & 10-3/4" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.	10-3/4" x 16" annulus (C annulus) and 7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (2) Perforate 7" casing, squeeze cement to B annulus BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (1) Tubing plug in X Nipple @ 9706 ft MD.	L-3 sand perfs through 2-7/8" tubing	Pressure test
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Squeeze cement through L-3 Sand Perforations	Isolation of L-3 perforations	Allow for sufficient WOC time. Pressure test.
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MD TVD

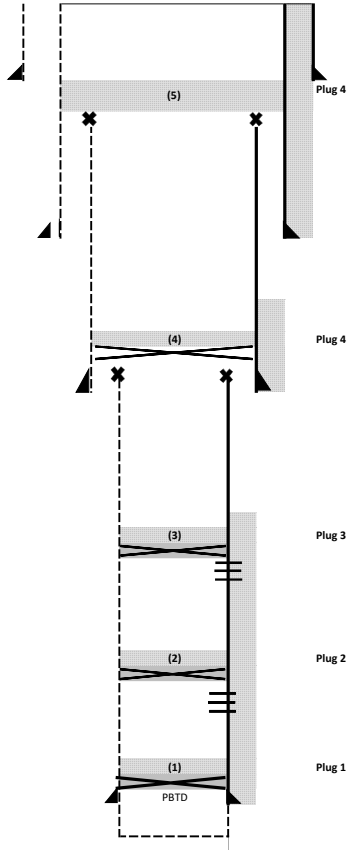
A-11 P&A Scenario:

Pull Completion (Unstring tubing from Comp-Set II HP packers @ 7860 ft, 8394 ft, and 8583 ft MD and retrieve packers).

Drill out cement above and below EZSV set @ 8800 ft. Unseat Baker SC-1 packer @ 9226 ft MD. Pull tubing and 8 gauge 3-1/2" OD screen (8507 ft - 8582 ft) and drill out Baker F-1 packer set @ 9479 ft MD.

Cut and pull 7" and 10-3/4" (cut within casing).

Assumptions: See embedded Notes



MD	TVD
WD	440
AMSL	111
RKB to ML	551
30" shoe	890
Top of Plug	701
Bottom of plug	901
10-3/4" cut point	901
16" shoe	1588
TOC (annulus)	3110
TOC (wellbore)	3410
Bridge Plug	3460
7" cut point	3510
10-3/4" shoe	3610
J Sand Top	8070
J Sand Base	8130
TOC (annulus)	8010
TOC (wellbore)	8410
Bridge Plug	8460
K Sand Top Perf	8510
K Sand Base Perf	8574
TOC (wellbore)	9284
Bridge Plug	9334
M Sand Top Perf	9384
M Sand Base Perf	9456
TOC (wellbore)	10217
Bridge Plug	10267
7" shoe	10317
TD	10322
	9912

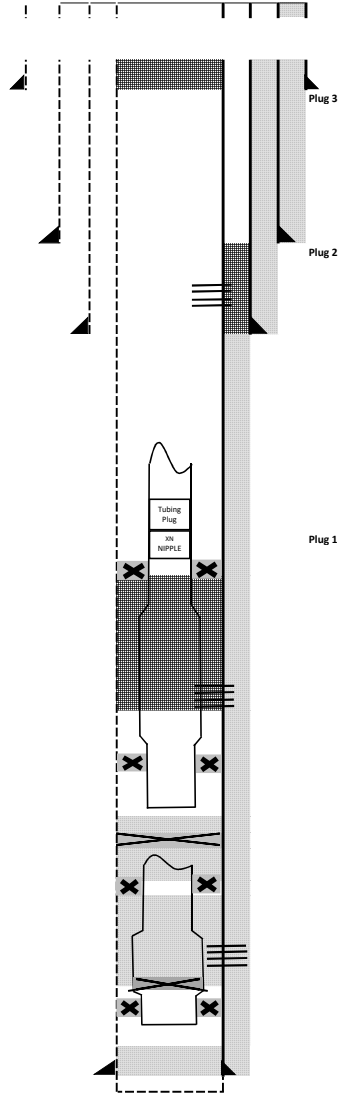
Requirement: BSSE	Leak Path Addressed	Testing/Verification Requirements
Plug (5) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	wellbore to sealfloor	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (5) Cut and pull of 10-3/4" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.	10-3/4" x 16" annulus	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Possible Alt. Compliance - set plug deeper, may leave excessive cement in BOP stack		
PLUG 4 IS A COMBINATION BARRIER FOR: 250.1715.a.(8) A well with casing; AND 250.1715.a.(4) A casing stub where the stub end is within		
Plug (4) Cut and pull of 7" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing: (iii) A cement retainer or bridge plug set at least 50 to 100 feet above the stub end with at least 50 feet of cement on top of the retainer or bridge plug; or	7" x 10-3/4" annulus	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (3) BSSE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (2) BSSE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (1) BSSE: 250.1715(a)(2) Open hole below casing: (iii) A bridge plug set 50 ft to 100 ft above the shoe with 50 ft of cement on top of the bridge plug, for expected or known lost circulation.	Possible failure of wellbore cement below float collar	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (1) BSSE: 250.420.b.(3) ...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.	Possible failure of wellbore cement below float collar	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
PLUG 1 IS A COMBINATION BARRIER FOR: 250.1715.a.(2) Open hole below casing; AND 250.420.b.(3) Final casing string with mechanical and		

MD TVD

A-3 P&A Scenario option 2:

M Sands previously abandoned with EZSV and cement.
 Squeeze J Sand perfs.
 Install tubing plug in XN landing nipple @ 8204 ft MD
 Cut 2-7/8" tubing @ ~104 ft MD (~100 ft above tubing plug)
 Pull tubing.

Assumptions: See embedded Notes



MD	TVD
WD	479
RKB	70
RKB to ML	549
Cut point 30"x16"x10-3/4"x7"	564
30" shoe	890
Top of Plug	699
Bottom of plug	849
TOC (annulus)	549
16" shoe	1588
Perforate 7" casing, squeeze cement to B annulus	
TOC (annulus)	3110
10-3/4" shoe	3610
TOC (annulus)	8010
2-7/8" tubing cut point	8287
Tubing Plug	8387
X Nipple	8387
Comp-set II HP Packer	8394
K Sand Top Perf	8510
K Sand Base Perf	8574
Comp Perm II packer	8583
TOC	8750
EZSV	8800
Cement below EZSV	8850
2-7/8" tubing cut	9000
Baker SC-1 packer	9226
M Sand Top	9384
M Sand Base	9456
Bridge plug	9450
Baker F-1 packer	9479
PBTD/TDF	10217
7" shoe	10317
TD	10322
	9912

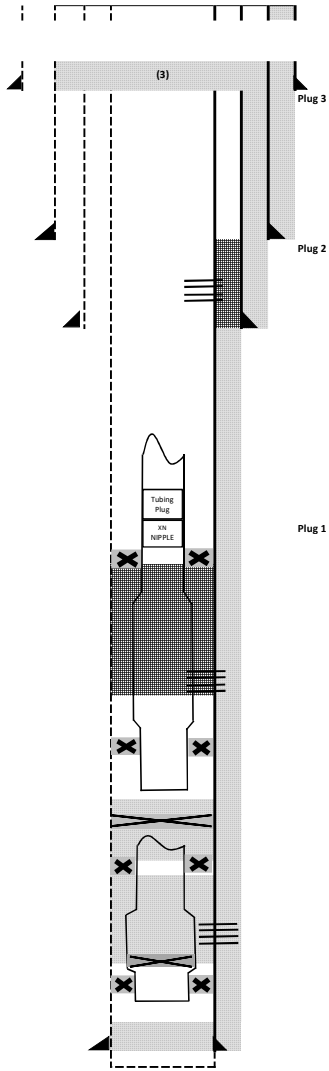
Requirement: BSSE	Leak Path Addressed	Testing/Verification Requirements
This option does not consider 10-3/4" x 16" possible leak path.		
This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.		
250.1716.(a) To what depth must I remove wellheads and casings?	N/A	
Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.		
Plug (3) BSEE: 250.1715.(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7" Wellbore	Allow for sufficient WOC. Tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c(1) and (2)
Plug (2) Perforate 7" casing, squeeze cement to B annulus BSEE: 250.1715.(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC
Plug (1) Tubing plug set in X landing nipple.	K-sand perfs thru 2-7/8" tubing	Allow for sufficient WOC. Pressure test.
Squeeze cement through K Sand Perforations	Isolation of K sand perfs	Allow for sufficient WOC. Pressure test.
A-11 As Built well schematic indicates: 50 ft of cement pumped above EZSV 50 ft of cement pumped below EZSV	M sand perfs through 2-7/8" tubing	
A-11 As Built well schematic (2001) indicates that M perfs were squeezed previously.		

MD TVD

A-3 P&A Scenario option 3:

M Sands previously abandoned with EZSV and cement.
 Squeeze J Sand perfs.
 Install tubing plug in XN landing nipple @ 8204 ft MD
 Cut 2-7/8" tubing @ ~8104 ft MD (~100 ft above tubing plug)
 Pull tubing.

Assumptions: See embedded Notes



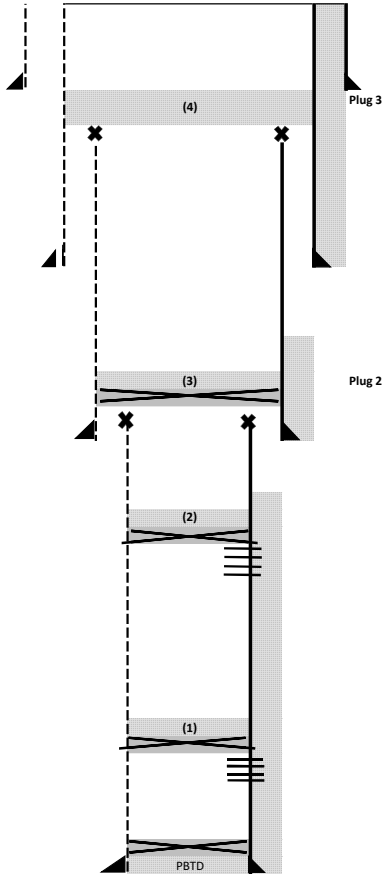
WD	479
RKB	70
RKB to ML	549
Cut point 30" x 16" x 10-3/4" x 7"	564
30" shoe	890
Top of Plug	699
Bottom of plug	849
7" x 10-3/4" cut	849
TOC (annulus)	549
16" shoe	1588
TOC (annulus)	3110
10-3/4" shoe	3610
TOC (annulus)	8010
2-7/8" tubing cut point	8287
Tubing Plug XN Nipple	8387
Comp-set II HP Packer	8394
K Sand Top Perf	8510
K Sand Base Perf	8574
Comp Perm II packer	8583
TOC	8750
EZSV	8800
Cement below EZSV	8850
2-7/8" tubing cut	9000
Baker SC-1 packer	9226
M Sand Top	9384
M Sand Base	9456
Bridge plug	9450
Baker F-1 packer	9479
PBTD/TOF	10217
7" shoe	10317
TD	10322
	9912

Requirement: BSSE	Leak Path Addressed	Testing/Verification Requirements
<p>This option does not address 250.420.b(3). For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or</p>		
<p>30"x16"x10-3/4"x7" Sever 250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.</p>		
<p>Plug (3) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</p>	7" WellBore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
<p>Plug (3) Cut and pull 7" 8-10-3/4" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing (B) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.</p>	10-3/4" x 16" annulus (C annulus) and 7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
<p>Plug (2) Perforate 7" casing, squeeze cement to B annulus BSSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.</p>	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC
<p>Plug (1) Tubing plug set in X landing nipple.</p>	K-sand perfs thru 2-7/8" tubing	Allow for sufficient WOC. Pressure test.
Squeeze cement through K Sand Perforations	K-sand perfs to wellbore	Allow for sufficient WOC.
A-11 As Built well schematic indicates: 50 ft of cement pumped above EZSV 50 ft of cement pumped below EZSV	M sand perfs through 2-7/8" tubing	
A-11 As Built well schematic (2001) indicates that M perfs were squeezed previously.		

MD TVD

A-12 P&A Scenario:
 Pull Completion.
 Retrievable A-5 Dual packer @ 9204 ft.
 Unsting from SC-1 packer @ 9415 ft.
 SC-1 packer is retrievable. Unseat from sump packer @ 9579 ft. Drill out sump packer.
 Unsting from SC-1 packer @ 10480 ft with straight pull. Retrieve SC-1 packer. Cut and pull tubing. Drill out sump packer @ 10722 ft.
 Assuming 100 ft shoe track.

Assumptions: See embedded Notes



MD TVD

WD	479
RKB	53
RKB to ML	532

30" shoe	890
Top of Plug	682
Bottom of plug	882
10-3/4" cut point	882

TOC (annulus)	532
16" shoe	1600

TOC (annulus)	3215
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TOC (wellbore)	3515
Bridge Plug	3565
7" cut point	3615
10-3/4" shoe	3715

TOC (annulus)	9046
TOC (wellbore)	9446
Bridge Plug	9496
L Sand Top Perf	9546
L Sand Base Perf	9560

TOC (wellbore)	10542
Bridge Plug	10592
N Sand Top Perf	10642
N Sand Base Perf	10707

Bridge plug	11001
PBDT/TOF	11001
7-5/8" shoe	11101

Requirement: BSSE Leak Path Addressed Testing/Verification Requirements

Plug (4)
BSEE: 250.1715(a)(8) A well with casing:
 A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline. wellbore to sealfloor

Allow for sufficient WOC, tag up with agreed upon weight. Pressure test.
 All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

Plug (4) Cut and pull 10-3/4" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.	10-3/4" x 16" annulus	
Possible Alt. Compliance - set plug deeper, may leave excessive cement in BOP stack		

PLUG 4 IS A COMBINATION BARRIER FOR:
 250.1715.a.(8) A well with casing:
 AND
 250.1715.a(4) A casing stub where the stub end is within the casing

Plug (3) Cut and pull 7" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing: (ii) A cement retainer or bridge plug set at least 50 to 100 feet above the stub end with at least 50 feet of cement on top of the retainer or bridge plug.	7" x 10-3/4" annulus	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (2) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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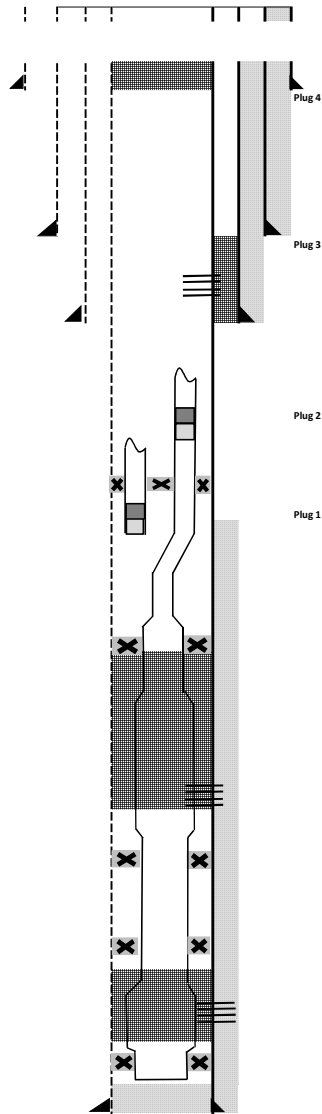
Plug (1) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Deepest Bridge Plug BSEE: 250.420.b.(3) ...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.	Possible failure of wellbore cement below float collar	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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MD TVD

A-12 P&A Scenario option 2:

No sand package has been previously squeezed.
 Squeeze N sand perfs.
 Squeeze L sand perfs.
 Set tubing plugs in both 2-3/8" tubing strings (well has dual strings up to 9222 ft MD).
 Cut both 2-3/8" tubing strings above tubing plugs.



WD	479
RKB	70
RKB to ML	549
Cut point	
30"x16"x10-3/4"x7"	564
30" shoe	890
Top of Plug	699
Bottom of plug	849

TOC (annulus)	549
16" shoe	1600

TOC (annulus)	3215
10-3/4" shoe	3715

TOC (annulus)	9046
2-3/8" Tubing Cut point (A-12)	9121

Tubing plug (A-12)	9171
XN Nipple (A-12)	9171

2-3/8" Tubing Cut Point (A-12D)	9165
A-S Dual packer	9204

Tubing plug (A-12D)	9215
XN Nipple (A-12D)	9215

Baker SC-1 packer	9415
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L Sand Top Perf	9546
L Sand Base Perf	9560

Sump Packer	9579
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Baker SC-1 packer	10480
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N Sand Top Perf	10642
N Sand Base	1070

Sump Packer	10722
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P&A/T&F	11001
7-5/8" shoe/TD	11101

Requirement: BSSE **Leak Path Addressed** **Testing/Verification Requirements**

This option does not consider 10-3/4" x 16" possible leak path.

This option does not address **250.420.b(3)**. For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These

250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.	N/A	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (4) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7-5/8" wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

Plug (2) Perforate 7" casing, squeeze cement to B annulus BSSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7-5/8" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC
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Plug (2) Tubing plug set in XN landing nipple in A-12 2-3/8" tubing	L Sand Perfs through 2-3/8" tubing	Pressure test
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Plug (1) Tubing plug set in XN landing nipple in A-12D 2-3/8" tubing	Tubing not connected to any perforations, but should there be insufficient cement across L Sand's this will prevent hydrocarbons coming up A-12D string	Pressure test
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Squeeze cement through L Sand Perforations	L Sand Perfs through 2-3/8" tubing	Allow for sufficient WOC. Pressure test.
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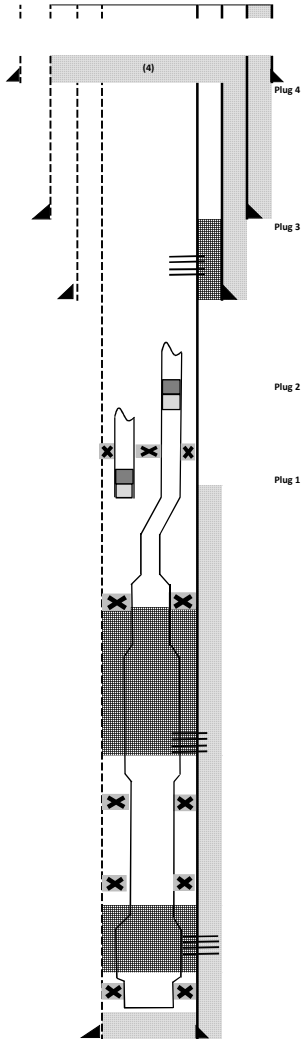
Squeeze cement through N Sand Perforations	N Sand Perfs through 2-3/8" tubing	Allow for sufficient WOC. Pressure test.
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MD TVD

A-12 P&A Scenario option 3:

No sand package has been previously squeezed.
 Squeeze N sand perfs.
 Squeeze L sand perfs.
 Set tubing plugs in both 2-3/8" tubing strings (well has dual strings up to 9222 ft MD).
 Cut both 2-3/8" tubing strings above tubing plugs.
 Pull tubing.

Assumptions: See embedded Notes



WD	479
RKB	75
RKB to ML	549
Cut point 30"x16"x10- 3/4"x7"	564

30" shoe	890
Top of Plug	699
Bottom of plug	849
7" x 10-3/4" cut	849

TOC (annulus)	549
16" shoe	1600

Perforate 7" casing, squeeze cement to B annulus

TOC (annulus)	3215
10-3/4" shoe	3715

TOC (annulus)	9046
2-3/8" Tubing Cut point (A-12)	9121

Tubing plug (A-12)	9171
XN Nipple (A-12)	9171

2-3/8" Tubing Cut Point (A-12D)	9165
A-5 Dual packer	9204

Tubing plug (A-12D)	9215
XN Nipple (A-12D)	9215

Baker SC-1 packer	9415
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L Sand Top Perf	9546
L Sand Base Perf	9560

Sump Packer	9579
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Baker SC-1 packer	10480
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N Sand Top Perf	10642
N Sand Base	1070

Sump Packer	10722
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PBTD/TOF	11001
7-5/8" shoe/TD	11101

MD TVD

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

This option does not address 250.420.b(3). For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment

<p>30"x16"x10-3/4"x7" Sever 250.1716.(a) To what depth must I remove wellheads and casings? (Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.</p> <p>Plug (4) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</p> <p>Plug (4) Cut and pull 7" & 10-3/4" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing (ii) A cement plug at least 200 feet long with the bottom of the plug set no more than 150 feet above the stub end.</p>	7-5/8" wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
<p>Plug (2) BSSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.</p>	7-5/8" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC

<p>Plug (2) BSSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.</p>	7-5/8" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC
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<p>Plug (2) Tubing plug set in XN landing nipple in A-12 2-3/8" tubing</p>	L Sand Perfs through 2-3/8" tubing	Pressure test
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<p>Plug (1) Tubing plug set in XN landing nipple in A-12D 2-3/8" tubing</p>	Tubing not connected to any perforations, but should there be insufficient cement across L Sand's this will prevent hydrocarbons coming up A-12D string	Pressure test
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Squeeze cement through L Sand Perforations	L Sand Perfs through 2-3/8" tubing	Allow for sufficient WOC. Pressure test.
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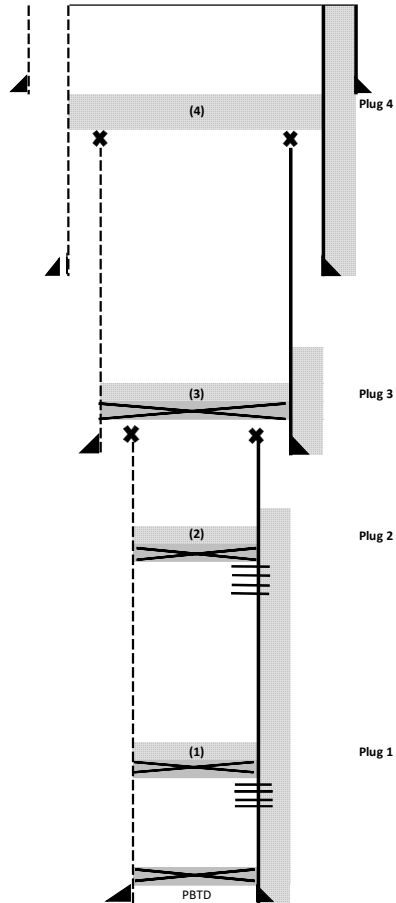
Squeeze cement through N Sand Perforations	N Sand Perfs through 2-3/8" tubing	Allow for sufficient WOC. Pressure test.
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MD TVD

A-13 P&A Scenario:
 Pull Completion.
 Baker "D" packer @ 6680 ft. Designated as a permanent packer. Drillable?
 Unsting cut tubing (tubing cut@ 9676) from SC-1 packer @ 9720 ft.
 SC-1 packer is retrievable. Unseat from sump packer @ 10056 ft. Drill out sump packer.

Assuming 100 ft shoe track.

Assumptions: See embedded Notes



MD TVD

WD	479
RKB	53
RKB to ML	532

30" shoe	890
Top of Plug	682
Bottom of plug	882
10-3/4" cut point	882

TOC (annulus)	532
16" shoe	1590

TOC (annulus)	3092
TOC (wellbore)	3392
Bridge Plug	3442
7" cut point	3492
10-3/4" shoe	3592

TOC (annulus)	6244	
TOC (wellbore)	6644	
Bridge Plug	6694	
H Sand Top Perf	6744	6501
H Sand Base Perf	6750	6505

TOC (wellbore)	9872	
Bridge Plug	9922	
N Sand Top Perf	9972	9379
N Sand Base Perf	10040	9441

Bridge plug	10069
PBDT/TOF	10069
7" shoe	10169

Requirement: BSSE Leak Path Addressed Testing/Verification Requirements

Plug (4) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	wellbore to seafloor	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (4) Cut and pull 10-3/4" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end. Possible Alt. Compliance - set plug deeper, may leave excessive cement in BOP stack	10-3/4" x 16" annulus	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

PLUG 4 IS A COMBINATION BARRIER FOR:

250.1715.a.(8) A well with casing;
 AND
 250.1715.a (4) A casing stub where the stub end is within the casing

Plug (3) Cut and pull 7" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing: (ii) A cement retainer or bridge plug set at least 50 to 100 feet above the stub end with at least 50 feet of cement on top of the retainer or bridge plug;	7" x 10-3/4" annulus	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (2) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (1) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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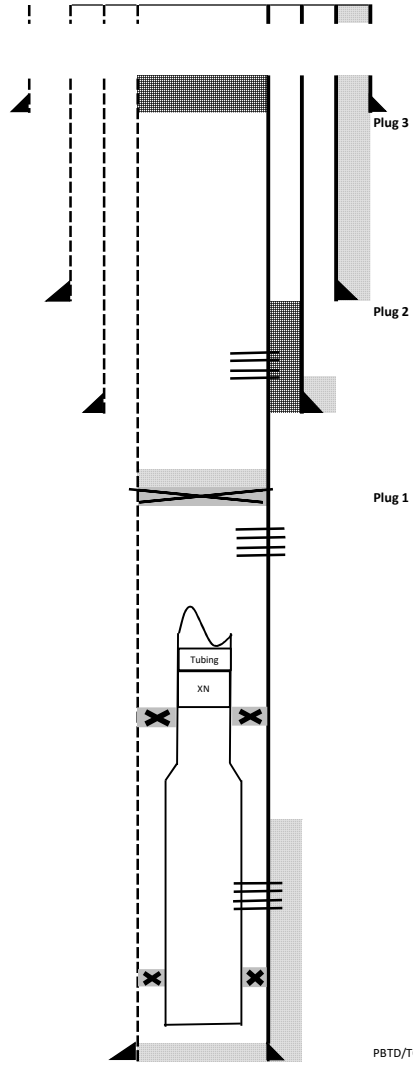
Deepest Bridge Plug BSEE: 250.420.b.(3) ...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.	Possible failure of wellbore cement below float collar	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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MD TVD

A-13 P&A Scenario option 2:

Cut tubing above Baker D Model packer @ 6680ft MD
 Pull tubing
 Retrieve Baker D Model packer, pull tubing.
 Install bridge plug with cement above upper most H perf.

Assumptions: See embedded Notes



WD	479
AMSL	53
RKB to ML	532
Cut point 30"x16"x10-3/4"x7"	547

30" shoe	890
Top of Plug	682
Bottom of plug	832

TOC (annulus)	532
16" shoe	1590

TOC (annulus)	3092
10-3/4" shoe	3592

TOC	6644
Bridge Plug	6694

H Sand Top Perf	6744
H Sand Base Perf	6750

2-7/8" Tubing Cut point	9676
Cement	9677
Tubing Plug	9687
LN Nipple	9687

Baker SC-1 packer	9720
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TOC (annulus)	9472
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N Sand Top Perf	9972
N Sand Base Perf	10040

Bakersump packer	10056
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PBTD/TOF	10069
7" shoe/TD	10169

MD TVD

Requirement: BSSE **Leak Path Addressed**

This option does not consider 10-3/4" x 16" possible leak path.

This option does not address **250.420.b(3)**...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment

Testing/Verification Requirements

250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.	N/A	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

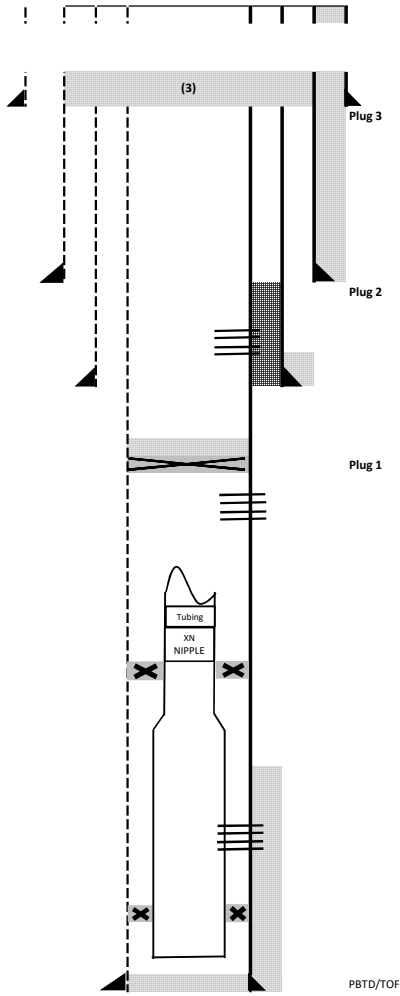
Plug (2) Perforate 7" casing, squeeze cement to B annulus BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (1) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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MD TVD

A-13 P&A Scenario option 3:
 Cut tubing above Baker D Model packer @ 6680ft MD
 Pull tubing
 Retrieve Baker D Model packer, pull tubing.
 Install bridge plug with cement above upper most H perf.
 Assumptions: See embedded Notes

MD TVD



WD	479
AMSL	53
RKB to ML	532
Cut point 30"x16"x10-3/4"x7"	547

30" shoe	890
Top of Plug	682
Bottom of plug 7" x 10-3/4" cut	832

TOC (annulus)	532
16" shoe	1590

TOC (annulus)	3092
10-3/4" shoe	3592

TOC	6644
Bridge Plug	6694

H Sand Top Perf	6744
H Sand Base Perf	6750

2-7/8" Tubing Cut point	9676
Cement	9677
Tubing Plug	9687
LN Nipple	9687

Baker SC-1 packer	9720
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TOC (annulus)	9472
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N Sand Top Perf	9972
N Sand Base Perf	10040

Bakersump packer	10056
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PBD/TOF	10069
7" shoe/TD	10169

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These

30"x16"x10-3/4"x7" Sever

250.1716.(a) To what depth must I remove wellheads and casings?

Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.

<p>Plug (3) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</p>	7" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
<p>Plug (3) Cut and pull 7" & 10-3/4" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.</p>	10-3/4" x 16" annulus (C annulus) and 7-5/8" x 10-3/4" (B annulus)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

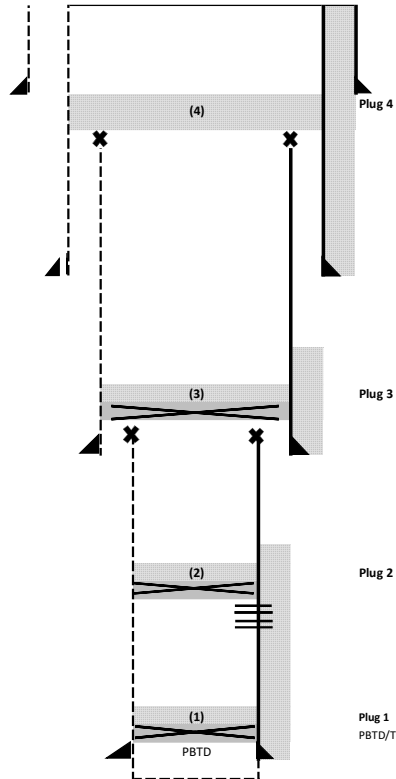
<p>Plug (2) Perforate 7" casing, squeeze cement to B annulus BSSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline:</p>	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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<p>Plug (1) BSSE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug</p>	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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MD TVD

A-14 P&A Scenario:
 Pull Completion.
 Unsting tubing from SC-1 packer @ 8311 ft with straight pull.
 SC-1 packer is retrievable. Unseat from sump packer @ 8670 ft. Pull tubing. Drill out sump packer

Assumptions: See embedded Notes



MD	TVD
WD	479
RKB	53
RKB to ML	532
30" shoe	890
Top of Plug	682
Bottom of plug	882
10-3/4" cut point	882
TOC (annulus)	532
16" shoe	1590
TOC (annulus)	3080
TOC (wellbore)	3380
Bridge Plug	3430
7" cut point	3480
10-3/4" shoe	3580
TOC (annulus)	8046
TOC (wellbore)	8446
Bridge Plug	8496
L Sand Top Perf	8546
L Sand Base Perf	8656
TOC (wellbore)	9109
Bridge plug	9159
7" shoe	9259
TD	9280

Requirement: BSSE	Leak Path Addressed	Testing/Verification Requirements
Plug (4) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	wellbore to seafloor	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (4) Cut and pull 10-3/4" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.	10-3/4" x 16" annulus	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Possible Alt. Compliance - set plug deeper, may leave excessive cement in BOP stack		

PLUG 4 IS A COMBINATION BARRIER FOR:
 250.1715.a.(8) A well with casing;
 AND
 250.1715.a (4) A casing stub where the stub end is within the casing

Plug (3) Cut and pull 7" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing: (ii) A cement retainer or bridge plug set at least 50 to 100 feet above the stub end with at least 50 feet of cement on top of the retainer or bridge plug;	7" x 10-3/4" annulus	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (2) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (1) BSEE: 250.420.b.(3) ...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.	Possible failure of wellbore cement below float collar	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (1) BSEE: 250.1715(a)(2) Open hole below casing: (iii) A bridge plug set 50 ft to 100 ft above the shoe with 50 ft of cement on top of the bridge plug, for expected or known lost circulation.		Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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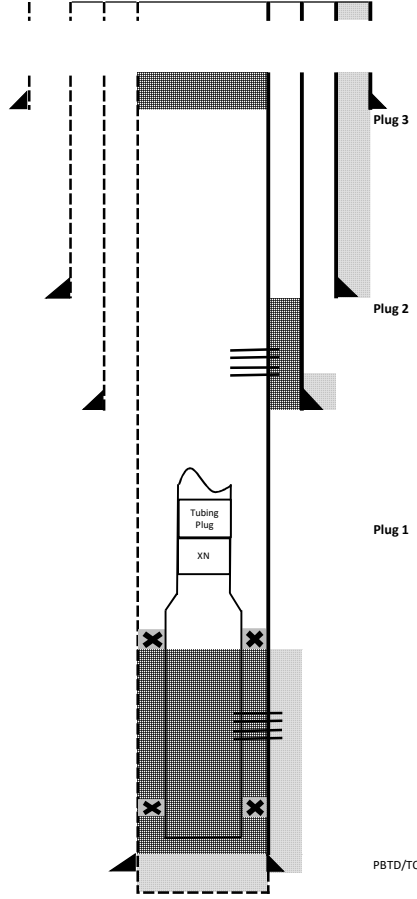
PLUG 1 IS A COMBINATION BARRIER FOR:
 250.1715.a.(2) Open hole below casing;
 AND
 250.420.b.(3) Final casing string with mechanical and

MD TVD

A-14 P&A Scenario option 2:

Squeeze L-sand perms.
 Install tubing plug@ XN Nipple (8272 ft MD)
 Cut tubing @ ~8,172 ft MD (~ 100 ft above tubing plug)
 Pull tubing.

Assumptions: See embedded Notes



WD	479
RKB	53
RKB to ML	532
Cut point 30"x16"x10-3/4"x7"	547

30" shoe	890
Top of Plug	682
Bottom of plug	832

TOC (annulus)	532
16" shoe	1590

Perforate 7" casing, squeeze cement to B annulus

TOC (annulus)	3080
10-3/4" shoe	3580

2-3/8" Tubing Cut point	8172
Tubing Plug	8272
XN Nipple	8272

TOC (annulus)	8046
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L Sand Top Perf	8546
L Sand Base Perf	8656

Sump Packer	8670
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7" shoe	9259
TD	9280

MD TVD

Requirement: BSSE **Leak Path Addressed**

This option does not consider 10-3/4" x 16" possible leak path.

This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or

Testing/Verification Requirements

250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.	N/A	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

Plug (2) Perforate 7" casing, squeeze cement to B annulus BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC.
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Plug (1) Tubing plug in XN Nipple @ 8272 ft MD.	L-sand perms through 2-3/8" tubing	Pressure test
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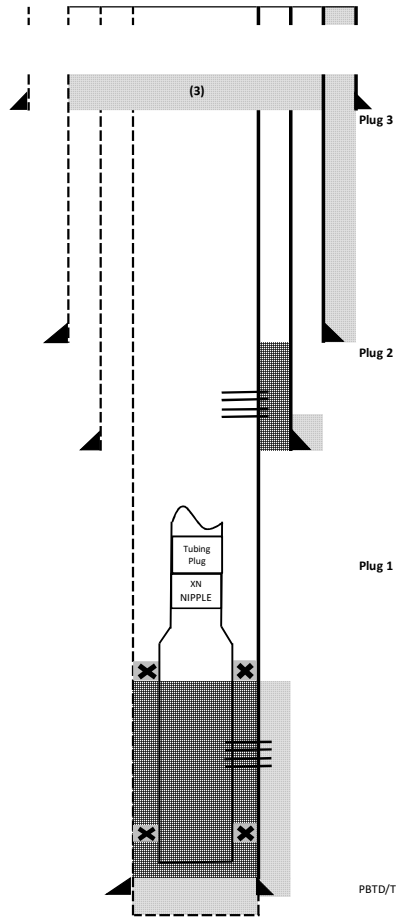
Squeeze cement through L Sand Perforations	Isolation of L-sand perms	Allow for sufficient WOC. Pressure test
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MD TVD

A-14 P&A Scenario option 3:

Squeeze L-sand perfs.
 Install tubing plug @ XN Nipple (8272 ft MD)
 Cut tubing @ ~8,172 ft MD (~ 100 ft above tubing plug)
 Pull tubing.

Assumptions: See embedded Notes



WD	479
RKB	53
RKB to ML	532
Cut point 30"x16"x10-3/4"x7"	547

30" shoe	890
Top of Plug	682
Bottom of plug	882
7" x 10-3/4" cut point	882

TOC (annulus)	532
16" shoe	1590

TOC (annulus)	3080
10-3/4" shoe	3580

2-3/8" Tubing Cut point	8172
Tubing Plug	8272
XN Nipple	8272

TOC (annulus)	8046
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L Sand Top Perf	8546
L Sand Base Perf	8656

Sump Packer	8670
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7" shoe	9259
TD	9280

MD TVD

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.

<p>30"x16"x10-3/4"x7" Sever 250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.</p>		
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<p>Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</p>	wellbore to seafloor	
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<p>Plug (3) Cut and pull 7" & 10-3/4" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.</p>	10-3/4" x 16" annulus (C annulus) and 7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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<p>Plug (2) Perforate 7" casing, squeeze cement to B annulus BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.</p>	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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<p>Plug (1) Tubing plug in XN Nipple @ 8272 ft MD.</p>	L-sand perfs thru 2-3/8" tubing	Allow for sufficient WOC. Pressure test.
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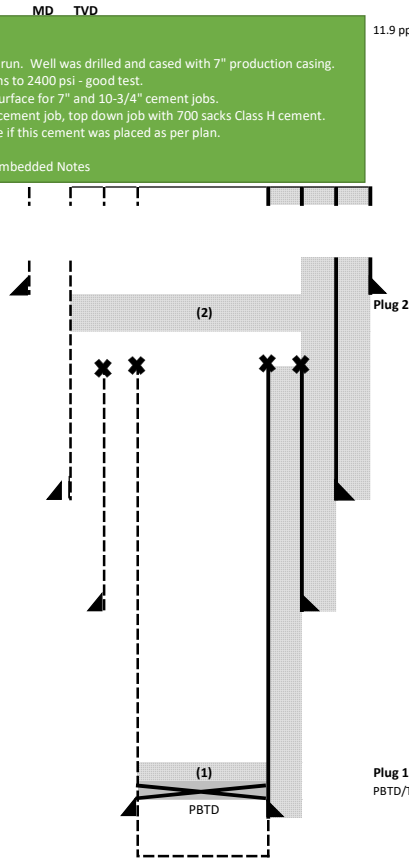
Squeeze cement through L Sand Perforations	Isolation of L Sand perfs	Allow for sufficient WOC. Pressure test.
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A-15 P&A Scenario:

No completion ever run. Well was drilled and cased with 7" production casing. Casing tested 30 mins to 2400 psi - good test. Cement returns to surface for 7" and 10-3/4" cement jobs. Lost returns on 16" cement job, top down job with 700 sacks Class H cement. Unable to determine if this cement was placed as per plan.

Assumptions: See embedded Notes

11.9 ppg mud left in hole



WD	479
RKB	53
RKB to ML	532
Cut point 30"x16"x10-3/4"x7"	547

30" shoe	890
Top of Plug	682
Bottom of plug	882
7" x 10-3/4" cut point	1000

TOC (annulus)	532	
16" shoe	1620	1619

TOC (annulus)	532	
10-3/4" shoe	3725	3655

TOC (wellbore)	11874	
Bridge Plug	11924	
7-5/8" shoe	12011	10539

TD	12080	10599
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Plug 1
PBTD/Top of Float

MD TVD

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

Allow for sufficient WOC, tag up with agreed

<p>30"x16"x10-3/4"x7" Sever 250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.</p>	N/A	
<p>Plug (2) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</p>	7" wellbore	Allow for sufficient WOC, tag up with agreed upon weight. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
<p>Plug (2) Cut and pull 7" & 10-3/4" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.</p>	7" x 10-3/4" annulus 10-3/4" x 16" annulus	Allow for sufficient WOC, tag up with agreed upon weight. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

PLUG 2 IS A COMBINATION BARRIER FOR:

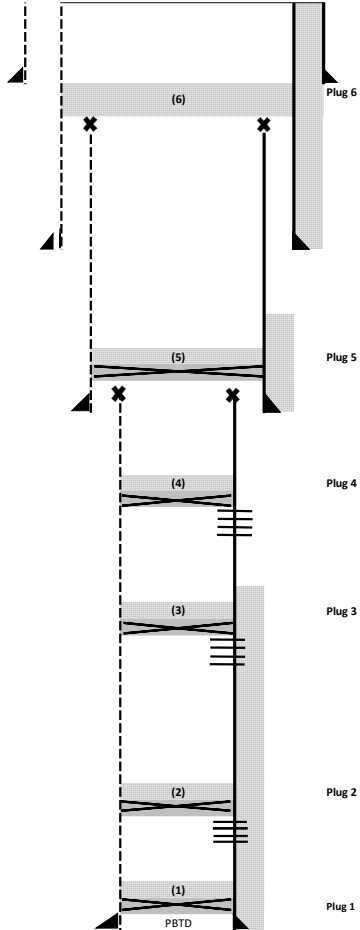
250.1715.a.(8) A well with casing:
 AND
 250.1715.a.(4) A casing stub where the stub end is within the casing

<p>Plug (1) BSSE: 250.420.b.(3) ...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.</p>	Possible failure of wellbore cement below float collar	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
<p>Plug (1) BSSE: 250.1715(a)(2) Open hole below casing: (iii) A bridge plug set 50 ft to 100 ft above the shoe with 50 ft of cement on top of the bridge plug, for expected or known lost circulation.</p>		Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

PLUG 1 IS A COMBINATION BARRIER FOR:

250.1715.a.(2) Open hole below casing:
 AND
 250.420.b.(3) Final casing string with mechanical and cement

A-1G P&A Scenario:
 Pull Completion.
 Retrievable A-5 Dual packer @ 9539 ft.
 Unsting from SC-1 packer @ 9654 ft.
 SC-1 packer is retrievable. Unseat from SC-1 packer @ 9929 ft.
 Retrieve SC-1 packer.
 Cut and pull tubing above sump packer @ 10996 ft MD.
 Drill out sump packer.
 Pull tubing below packer.
 Drill out deep-set sump packer @ 11385 ft MD.
 Assumptions: See embedded Notes



	MD	TVD
WD		479
RKB		42
RKB to ML		521
30" shoe		890
Top of Plug		671
Bottom of plug		871
10-3/4" cut point		871
TOC (annulus)		521
16" shoe		1600
TOC (annulus)		3215
TOC (wellbore)		3515
Bridge Plug		3565
7" cut point		3615
10-3/4" shoe		3715
TOC (wellbore)		9710
Bridge Plug		9760
M Sand Top Perf		9810
M Sand Base Perf		9904
TOC (wellbore)		10680
Bridge Plug		10730
O Sand Top Perf		10780
O Sand Base Perf		10970
TOC (wellbore)		11120
Bridge Plug		11170
P Sand Top Perf		11220
P Sand Base Perf		11367
Bridge plug		11454
PBTD/TOF		11454
7-5/8" shoe		11554

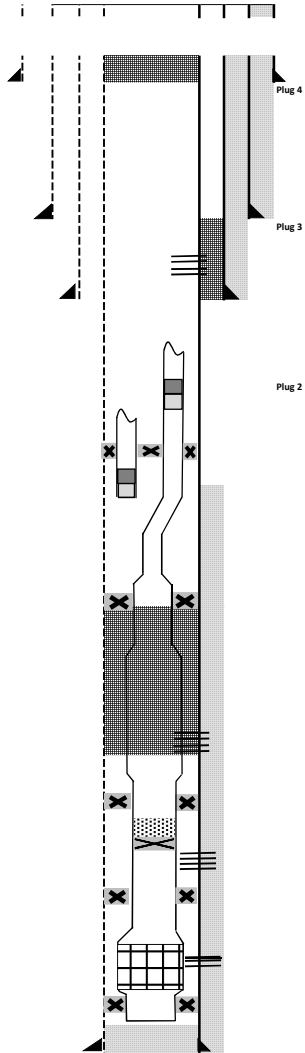
Requirement: BSSE	Leak Path Addressed	Testing/Verification Requirements
Plug (6) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	wellbore to sealfloor	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (6) Cut and pull 10-3/4" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.	10-3/4" x 16" annulus	
Possible Alt. Compliance - set plug deeper, may leave excessive cement in BOP stack		
PLUG 6 IS A COMBINATION BARRIER FOR: 250.1715.a.(8) A well with casing; AND 250.1715.a.(4) A casing stub where the stub end is within the casing		
Plug (5) Cut and pull 7" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing: (ii) A cement retainer or bridge plug set at least 50 to 100 feet above the stub end with at least 50 feet of cement on top of the retainer or bridge plug.	7" x 10-3/4" annulus	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (4) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (3) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (2) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Deepest Bridge Plug 1 BSEE: 250.420.b.(3) ...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.	Possible failure of wellbore cement below float collar	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

MD TVD

A-16 P&A Scenario option 2:

P and O sand package have been previously squeezed.
 A-16 D tubing has been previously abandoned with a CIBP and cement.
 Set tubing plug in A-16 2-3/8" tubing string @9521 ft MD.
 Cut both 2-3/8" tubing strings above plugs.
 Pull tubing.

Assumptions: See embedded Notes



MD TVD

WD	479
RKB to ML	42
Cut point	521
30" x 48" x 10-3/4" x 7"	536

30" shoe	890
Top of Plug	871
Bottom of plug	821

TOC (annulus)	521
16" shoe	1600

TOC (annulus)	3215
10-3/4" shoe	3715

TOC (annulus)	9310
2-3/8" Tubing Cut point (A-12)	9471

Tubing plug (A-16D)	9521
X LN Nipple (A-16D)	9521

2-3/8" Tubing Cut point (A-15)	9490
A-S Dual packer	9539

10 ft of cement	9540
CIBP w/in tubing (A-16)	9550

Baker SC-1 packer	9654
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M Sand Top Perf	9810
M Sand Base Perf	9904

SC-1 Packer	9929
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10 ft of cement	10690
CIBP	10700
O Sand Top Perf	10780
O Sand Base Perf	10970

SC-1 Packer	10996
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P Sand Top Perf	11220
P Sand Base	11367

Sump Packer	11385
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P8TD/TDP	11454
7-5/8" shoe/TD	11554

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

This option does not consider 10-3/4" x 16" possible leak path.
 This option does not address 250.420.b(3) ...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement.

250.1716.(a) To what depth must I remove wellheads and casing? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.	N/A	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (4) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7-5/8" wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

Plug (3) Perforate 7" casing, squeeze cement to B annulus. BSSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7-5/8" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC
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Plug (2) Tubing plug set in X landing nipple in A-16 2-3/8" tubing	M Sand Perfs through 2-3/8" tubing	Pressure test
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A-16 tubing previously abandoned with installed CIBP and cement on top.	Tubing not connected to any perforations, but should there be insufficient cement across M Sand's this will prevent hydrocarbons coming up A-16 string	Pressure test
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Squeeze cement through M Sand Perforations	M Sand Perfs through 2-3/8" tubing	Allow for sufficient WOC. Pressure test.
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A-16 As Built and P&A Schematic indicate that the P sands have been previously abandoned.	O Sand Perfs through 2-3/8" tubing	
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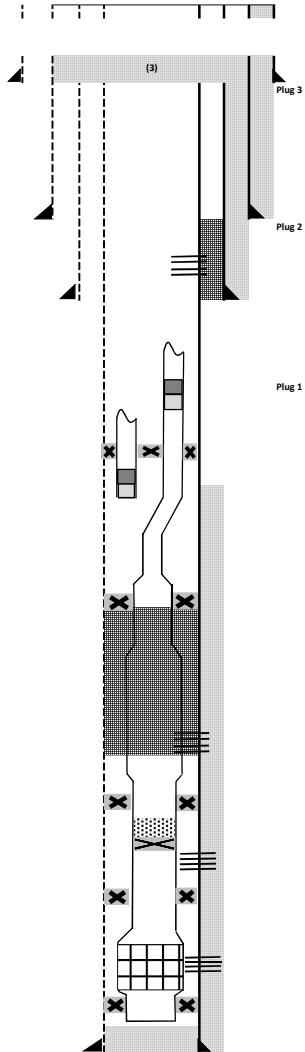
A-16 As Built and P&A Schematic indicate that the P sands have been previously abandoned. Only P&A schematic shows a plug within the tubing.	P Sand Perfs through 2-3/8" tubing	
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MD TVD

A-16 P&A Scenario option 3:

P and O sand package have been previously squeezed.
A-16 D tubing has been previously abandoned with a CIBP and cement.
Set tubing plug in A-16 2-3/8" tubing string @9521 ft MD.
Cut both 2-3/8" tubing strings above plugs.
Pull tubing.

Assumptions: See embedded Notes



WD	479
RKB	42
RKB to ML	521
Cut point 30"x16"x10- 3/4"x7"	536

30" shoe	890
Top of Plug	671
Bottom of plug	821

TOC (annulus)	521
16" shoe	1600

TOC (annulus)	3215
10-3/4" shoe	3715

TOC (annulus)	9310
2-3/8" Tubing Cut point (A-12)	9471

Tubing plug (A-16D)	9521
X LN Nipple (A-16D)	9521

2-3/8" Tubing Cut Point (A-16)	9490
A-5 Dual packer	9539

10 ft of cement CIBP w/in tubing (A-16)	9540
	9550

Baker SC-1 packer	9654
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M Sand Top Perf	9810
M Sand Base Perf	9904

SC-1 Packer	9929
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10 ft of cement	10690
CIBP	10700
O Sand Top Perf	10780
O Sand Base Perf	10970

SC-1 Packer	10996
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P Sand Top Perf	11220
P Sand Base	11367

Sump Packer	11385
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PBTD/TOF	11454
7-5/8" shoe/TD	11554

MD TVD

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

This option does not address 250.420 b(3). For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These

30"x16"x10-3/4"x7" Sever 250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.		
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Plug (3) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7-5/8" wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c(1) and (2)
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Plug (3) Cut and pull 7" & 10-3/4" BSSE: 250.1715(a)(9) A casing stub where the stub end is within the casing (8) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.	10-3/4" x 16" annulus (C annulus) and 7-5/8" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c(1) and (2)
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Plug (2) Perforate 7" casing, squeeze cement to B annulus BSSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7-5/8" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC
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Plug (1) Tubing plug set in X landing nipple in A-16 2-3/8" tubing	M Sand Perfs through 2-3/8" tubing	Pressure test
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A-16 tubing previously abandoned with installed CIBP and cement on top.	Tubing not connected to any perforations, but should there be insufficient cement across M Sand's this will prevent hydrocarbons coming up A-16 string	Pressure test
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Squeeze cement through M Sand Perforations	M Sand Perfs through 2-3/8" tubing	Allow for sufficient WOC. Pressure test.
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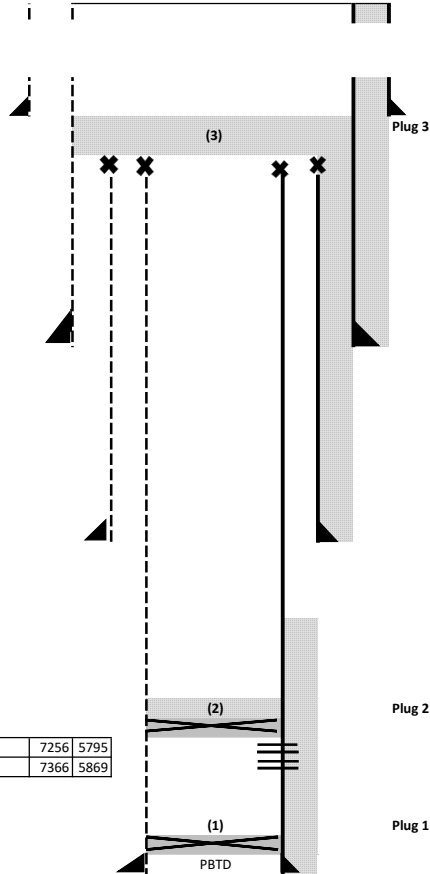
A-16 As Built and P&A Schematic indicate that the P sands have been previously abandoned.	O Sand Perfs through 2-3/8" tubing	
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A-16 As Built and P&A Schematic indicate that the P sands have been previously abandoned. Only P&A schematic shows a plug within the tubing.	P Sand Perfs through 2-3/8" tubing	
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MD TVD

A-17 P&A Scenario Option 1:
 Pull entire Completion.
 Cut and pull 2-3/8" tubing @ ~6480 ft (above Baker FH packer). Retrieve packer.
 Unsting 2-3/8" tubing from Baker SC-1 packer @ 7139 ft with straight pull. Retrieve packer.
 Cut and pull 2-3/8" tubing and screen from ~7200 ft MD (above Baker sump packer). Drill out sump packer.

Assumptions: See embedded Notes



MD	TVD	
WD	479	
RKB	53	
RKB to ML	532	
Cut point 30"x16"x10-3/4"x7-5/8"	547	
30" shoe	890	
Top of Plug	682	
Bottom of plug	882	
10-3/4" cut point	882	
TOC (annulus)	532	
16" shoe	1590	
TOC (annulus)	532	
10-3/4" shoe	3580	
TOC (annulus)	5628	
TOC (wellbore)	7159	
Bridge Plug	7209	
F Sand Top Perf	7259	5795
F Sand Base Perf	7269	5802
Bridge Plug	8845	
PBTD/TOF	8845	
7-5/8" shoe/TD	8966	6948

Requirement: BSSE **Leak Path Addressed** **Testing/Verification Requirements**

250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.	N/A	
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Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline	wellbore to seafloor	Allow for sufficient WOC, tag up with agreed upon weight. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (3) Cut and pull 7-5/8" & 10-3/4" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end. Possible Alt. Compliance - set plug deeper, may leave excessive cement in BOP stack	10-3/4" x 16" annulus 7-5/8" x 10-3/4" annulus	Allow for sufficient WOC, tag up with agreed upon weight. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

PLUG 3 IS A COMBINATION BARRIER FOR:
 250.1715.a.(8) A well with casing:
 AND
 250.1715.a.(4) A casing stub where the stub end is within the casing
 AND
 250.1715.a(7) A subsea well with unsealed annulus

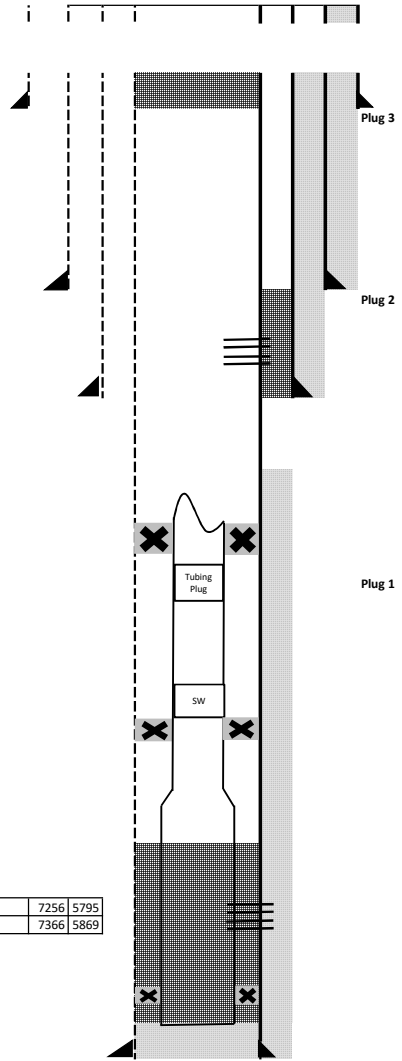
Plug (2) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug	isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (1) BSEE: 250.420.b.(3) ...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.	Possible failure of wellbore cement below flow collar	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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MD TVD

A-17 P&A Scenario option 2:

Squeeze F-sand perfs.
 Install tubing plug ~100 ft below pulled FH packer @ 6580
 Cut tubing @ ~6480 ft MD (~ 100 ft above FH packer)
 Pull tubing.
 Assumptions: See embedded Notes



MD TVD

WD	479
RKB	53
RKB to ML	532
Cut point 30"x16"x10-3/4"x7"	547

30" shoe	891
Top of Plug	682
Bottom of plug	832

TOC (annulus)	532
16" shoe	1603

TOC (annulus)	532
10-3/4" shoe	3283

TOC (annulus)	5628
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2-3/8" tubing cut point	6480
Baker FH packer	6580

Tubing Plug	6680
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SW Nipple	7094
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Production packer	7139
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F Sand Top	7256	5795
F Sand Base	7366	5869

F Sand Top Perf	7259	5795
F Sand Base Perf	7269	5802

Sump Packer	7274
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PBTD/TOF	8845	
7-5/8" shoe/TD	8966	6948

Requirement: BSSE Leak Path Addressed Testing/Verification Requirements

This option does not consider 10-3/4" x 16" possible leak path.

This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or

250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.	N/A	
Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7-5/8" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

Plug (2) Perforate 7" casing, squeeze cement to B annulus BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7-5/8" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC.
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Plug (1) Tubing plug ~100 ft below retrieved FH packer	F-sand perfs through 2-3/8" tubing	Allow for sufficient WOC time. Pressure test.
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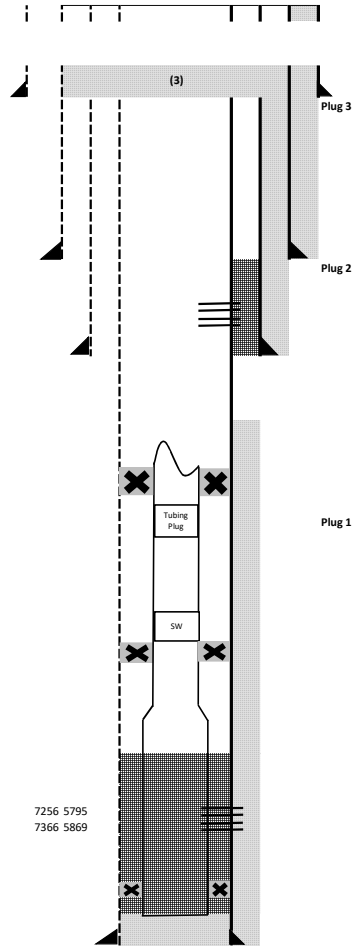
Squeeze cement through L Sand Perforations	Isolation of F Sand Perfs	Allow for sufficient WOC time. Pressure test.
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MD TVD

A-17 P&A Scenario option 3:

Squeeze F-sand perfs.
 Install tubing plug ~100 ft below pulled FH packer @ 6580
 Cut tubing @ ~6480 ft MD (~ 100 ft above FH packer)
 Pull tubing.
 Assumptions: See embedded Notes

MD TVD



F Sand Top 7256 5795
 F Sand Base 7366 5869

WD	479
RKB	53
RKB to ML	532
Cut point: 30"x16"x10- 3/4"x7"	547

30" shoe	891
Top of Plug	682
Bottom of plug	832
7" x 10-3/4" cut	832

TOC (annulus)	532
16" shoe	1603

TOC (annulus)	532
10-3/4" shoe	3283

TOC (annulus)	5628
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2-3/8" tubing cut point	6480
Baker FH packer	6580

Tubing Plug	6680
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SW Nipple	7094
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Production packer	7139
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F Sand Top Perf	7259	5795
F Sand Base Perf	7269	5802

Sump Packer	7274
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PBTD/TOF	8845	
7-5/8" shoe/TD	8966	6948

Requirement: BSSE **Leak Path Addressed** **Testing/Verification Requirements**

This option does not address **250.420.b(3)**...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These

30"x16"x10-3/4"x7" Sever
250.1716.(a) To what depth must I remove wellheads and casings?
 Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.

Plug (3) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7-5/8" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (3) Cut and pull 7" & 10-3/4" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing (III) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.	10-3/4" x 16" annulus (C annulus) and 7-5/8" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

Plug (2) Perforate 7" casing, squeeze cement to B annulus BSSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7-5/8" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC time.
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Plug (1) Tubing plug ~100 ft below retrieved FH packer	F-sand perfs through 2-3/8" tubing	Allow for sufficient WOC time. Pressure test.
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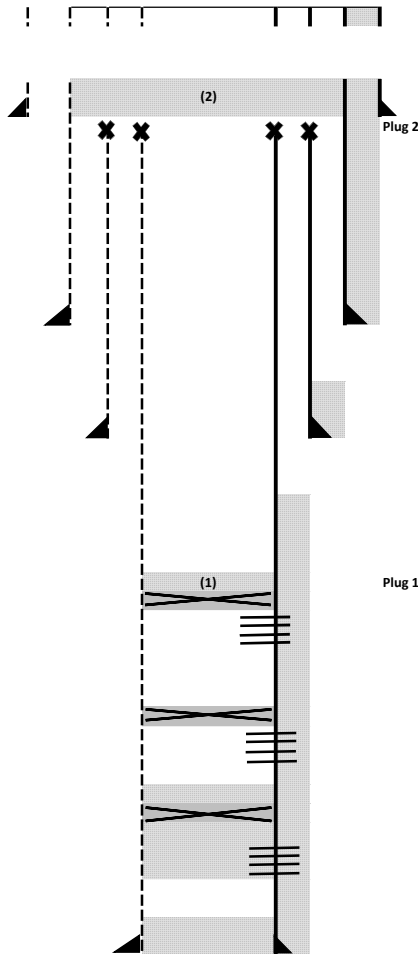
Squeeze cement through F Sand Perforations	Isolation of F sand perfs	Allow for sufficient WOC time. Pressure test.
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MD TVD

A-17 P&A Scenario option 1:

Pull entire completion above L-3 Test perf.
 Pull 2-7/8" tubing from Baker SC-1 packer @ 9883.
 Retrieve SC-1 packer.
 Pull 8" gauge screen.
 Drill out Baker F1 packer.

Assumptions: See embedded Notes



WD	479
RKB	53
RKB to ML	532
Cut point	
30"x16"x10-3/4"x7"	547

30" shoe	891
Top of Plug	682
Bottom of plug	832
7" x 10-3/4" cut point	832

TOC (annulus)	532
16" shoe	1607

TOC (annulus)	2760
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10-3/4" shoe	3260
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TOC (annulus)	9510
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TOC (wellbore)	9910	
Bridge Plug	9960	
L-3 Sand Top Perf	10010	8750
L-3 Sand Base Perf	10056	8794

EZSV	10084
L-3 Test Top Perf	10088
L-3 Test Base Perf	10100

Cement above	10935
EZSV	11040
Cement below	11462
N-3 Sand Top	11080
N-3 Sand Base	11126

PBTD/TOF	10084	8817
7-5/8" shoe/TD	11219	9950

MD TVD

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or

30"x16"x10-3/4"x7-5/8" Sever 250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.		
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Plug (2) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	N/A	
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Plug (2) Cut and pull 7-5/8" & 10-3/4" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.	10-3/4" x 16" (C) annulus 7-5/8" x 10-3/4" (B)annulus	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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PLUG 2 IS A COMBINATION BARRIER FOR:
 250.1715.a.(8) A well with casing;
 AND
 250.1715.a (4) A casing stub where the stub end is within the casing;
 AND
 250.1715.a(7) A subsea well with unsealed annulus

Plug (1) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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A-18 As Built well schematic indicates that L-3 Test sand is v		
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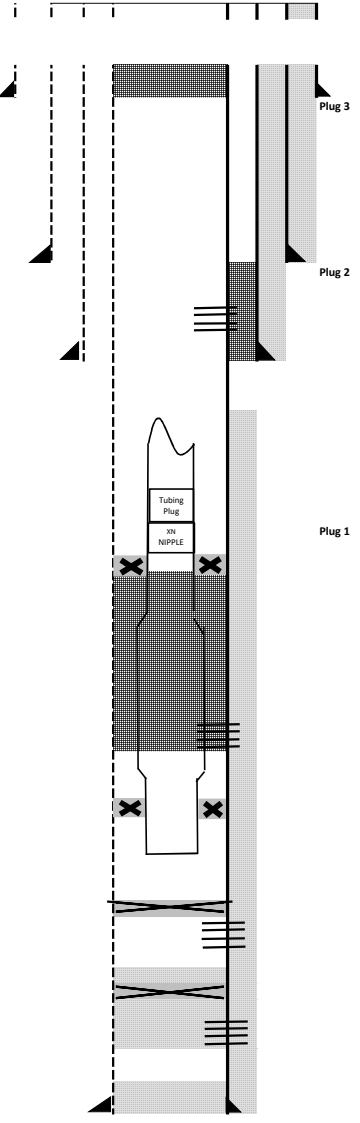
A-18 As Built well schematic indicates: 25 sks of cement pumped above EZSV 100 sks of cement were pumped below EZSV Assumptions: Class H cement (1.05 ft ³ /sk), 7-5/8" casing with avg .435" WT = .249 ft ³ /ft capacity. Depths associated with calculations		
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MD TVD

A-17 P&A Scenario option 2:

Squeeze L-3 Sand perfs.
 Install tubing plug in XN landing nipple@ 9872
 Cut tubing @ ~9772 ft MD (~ 100 ft above tubing plug)
 Pull tubing.

Assumptions: See embedded Notes



	MD	TVD
WD		479
RKB		53
RKB to ML		532
Cut point 30"x16"x10- 3/4"x7"		547
30" shoe		891
Top of Plug		682
Bottom of plug		832
TOC (annulus)		532
16" shoe		1607
Perforate 7" casing, squeeze cement to B annulus		
TOC (annulus)		2760
10-3/4" shoe		3260
TOC (annulus)		9510
2-3/8" tubing cut point		9772
Tubing Plug		9872
XN Nipple		9872
BH SC-1 packer		7139
L-3 Sand Top Perf	10010	8750
L-3 Sand Base Perf	10056	8794
BH F-1 Sump Packer		10066
EZSV		10084
L-3 Test Top Perf		10088
L-3 Test Base Perf		10100
Cement above		10935
EZSV		11040
Cement below		11462
N-3 Sand Top		11080
N-3 Sand Base		11126
P8TD/TOF	10084	8817
7-5/8" shoe/TD	11219	9950

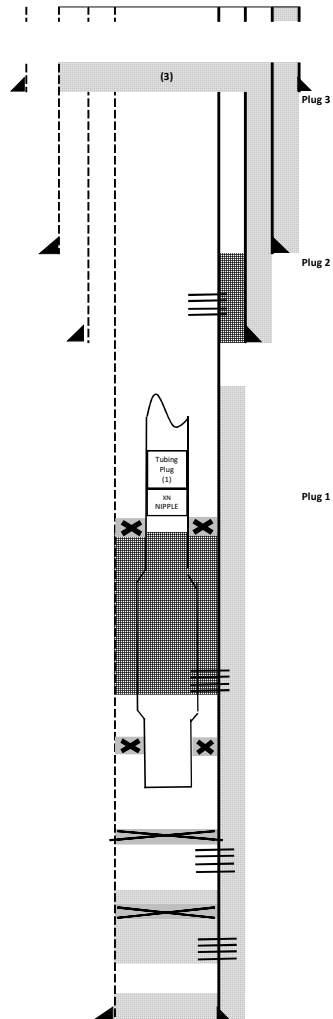
Requirement: BSSE	Leak Path Addressed	Testing/Verification Requirements
This option does not consider 10-3/4" x 16" possible leak path.		
This option does not address 250.420.b(3). For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or		
250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.	N/A	
Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7-5/8" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (2) Perforate 7" casing, squeeze cement to B annulus BSEE: 250.1715(e)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 feet long set in the annular space.	7-5/8" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC time.
Plug (1) Tubing plug set in XN landing nipple.	L-3 sand perfs through 2-3/8" tubing	Allow for sufficient WOC time. Pressure test.
Squeeze cement through L Sand Perforations	Isolation of L Sand Perfs	Allow for sufficient WOC time. Pressure test.
A-18 As Built well schematic indicates that L-3 sand is wet		
A-18 As Built well schematic indicates: 25 sks of cement pumped above EZSV 100 sks of cement were pumped below EZSV Assumptions: Class H cement (1.05 ft ³ /sk), 7-5/8" casing with avg. 435" WT = .249 ft ³ /ft capacity. Depths associated with calculations		

MD TVD

A-17 P&A Scenario option 3:

Squeeze F sand perfs
 Install tubing plug ~100 ft below pulled FH packer @ 6580
 Cut tubing @ ~6490 ft MD (~100 ft above FH packer)
 Pull tubing.

Assumptions: See embedded Notes



WD	479	
RKB	53	
RKB to ML	532	
Cut point 30"x16"x10- 3/4"x7"	547	
30" shoe	890	
Top of Plug	682	
Bottom of plug	882	
7" x 10-3/4" cut point	882	
TOC (annulus)	532	
16" shoe	1607	
Perforate 7" casing, squeeze cement to B annulus		
TOC (annulus)	2760	
10-3/4" shoe	3260	
TOC (annulus)	9510	
2-3/8" tubing cut point	9772	
Tubing Plug XN NIPPLE	9872	
BH SC-1 packer	7139	
L-3 Sand Top Perf	10010	8750
L-3 Sand Base Perf	10056	8794
BH F-1 Sump Packer	10066	
EZSV	10084	
L-3 Test Top Perf	10088	
L-3 Test Base Perf	10100	
Cement above	10935	
EZSV	11040	
Cement below	11462	
N-3 Sand Top	11080	
N-3 Sand Base	11126	
P&A/T&F	10084	8817
7-5/8" shoe/TD	11219	9950

MD TVD

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

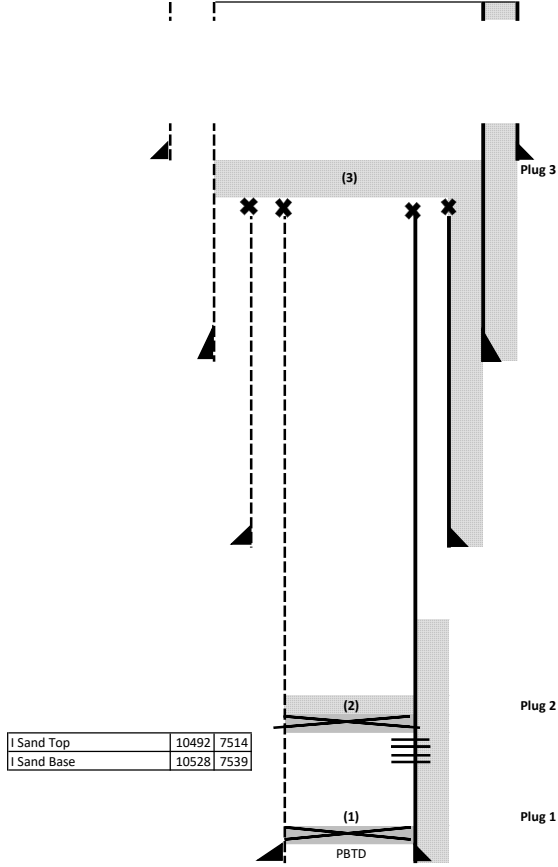
This option does not address 250.420.b(3). For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment.

30"x16"x10-3/4"x7" Sever 250.1716.(4) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.		
Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	wellbore to seafloor	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (3) Cut and pull 7" & 10-3/4" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing (B) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.	10-3/4" x 16" annulus (C annulus) Also addresses 7-5/8" x 10-3/4" annulus (this could eliminate 200ft cement squeeze behind 7" casing)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (2) Perforate 7" casing, squeeze cement to B annulus BSEE: 250.1715(a)(4) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 feet long set in the annular space.	7-5/8" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC time.
Plug (1) Tubing plug set in XN landing nipple.	L-3 -sand perfs through 2-3/8" tubing	Allow for sufficient WOC time. Pressure test.
Squeeze cement through L Sand Perforations	Isolation of L-3 Sand Perfs	Allow for sufficient WOC time. Pressure test.
A-18 As Built well schematic indicates that L-3 sand is wet		
A-18 As Built well schematic indicates: 25 sks of cement pumped above EZSV 100 sks of cement were pumped below EZSV Assumptions: Class H cement (1.05 ft ³ /sk), 7-5/8" casing with avg. 435" WT = .249 ft ³ /ft capacity. Depths associated with calculations	N-3 Sand thru 2-3/8" tubing	Pressure test before beginning intervention operations

MD TVD

A-19 P&A Scenario Option 1:
 Pull entire Completion.
 Cut and pull 2-3/8" tubing @ ~6480 ft (above Baker FH packer). Retrieve packer.
 Unsting 2-3/8" tubing from Baker SC-1 packer @ 7139 ft with straight pull. Retrieve packer.
 Cut and pull 2-3/8" tubing and screen from ~7200 ft MD (above Baker sump packer). Drill out sump packer.

Assumptions: See embedded Notes



MD TVD

WD	479
RKB	53
RKB to ML	532
Cut point 30"x16"x10-3/4"x7"	547

30" shoe	908
Top of Plug	682
Bottom of plug	882
10-3/4" cut point	882

TOC (annulus)	532
16" shoe	1626

TOC (annulus)	532
10-3/4" shoe	4350

TOC (annulus)	8200
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TOC (wellbore)	10381	
Bridge Plug	10431	
I Sand Top Perf	10481	7504
I Sand Base Perf	10514	7526

Bridge Plug	10593	
PBTD/TOF	10593	
7" shoe/TD	10680	7639

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.	N/A	
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Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	wellbore to seafloor	Allow for sufficient WOC, tag up with agreed upon weight. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (3) Cut and pull 7"- & 10-3/4" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end. Possible AIL Compliance - set plug deeper, may leave excessive cement in BOP stack	10-3/4" x 16" annulus 7" x 10-3/4" annulus	Allow for sufficient WOC, tag up with agreed upon weight. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

PLUG 3 IS A COMBINATION BARRIER FOR:

250.1715.a.(8) A well with casing:
 AND
 250.1715.a.(4) A casing stub where the stub end is within the casing
 AND
 250.1715.a(7) A subsea well with unsealed annulus

Plug (2) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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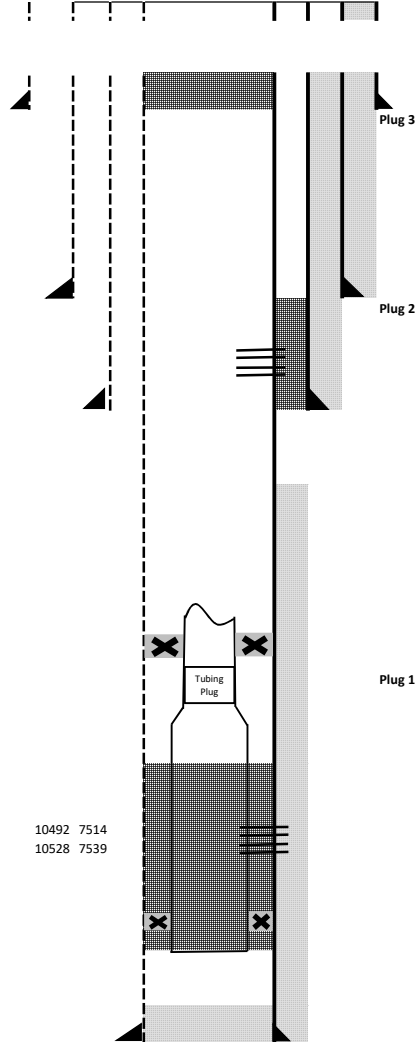
Plug (1) BSEE: 250.420.b.(3) ...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.	Possible failure of wellbore cement below float collar	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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MD TVD

A-19 P&A Scenario option 2:

Squeeze I-sand perfs.
 Install tubing plug ~100 ft below production packer @ 10322
 Pull tubing @ ~10322 ft MD (utilize upward force)
 Pull tubing.

Assumptions: See embedded Notes



MD TVD

WD	479
RKB	53
RKB to ML	532
Cut point 30"x16"x10-3/4"x7"	547

30" shoe	908
Top of Plug	682
Bottom of plug	832

TOC (annulus)	532
16" shoe	1626

TOC (annulus)	532
10-3/4" shoe	4305

TOC (annulus)	8200
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Top of tubing	10322
Production packer	10322

Tubing Plug	10422
Top of screen	10471

I Sand Top Perf	10481	7504
I Sand Base Perf	10514	7526

Sump Packer	10519
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PBTD/TOF	10593	
7" shoe/TD	10680	7639

I Sand Top 10492 7514
 I Sand Base 10528 7539

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

This option does not consider 10-3/4" x 16" possible leak path.

This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment

250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.	N/A	
Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

Plug (2) Perforate 7" casing, squeeze cement to B annulus BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC time.
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Plug (1) Land tubing plug in X landing nipple, 100 ft below production packer 49' ft above 8" gauge screen	I-sand perfs through 2-7/8" tubing	Allow for sufficient WOC time. Pressure test.
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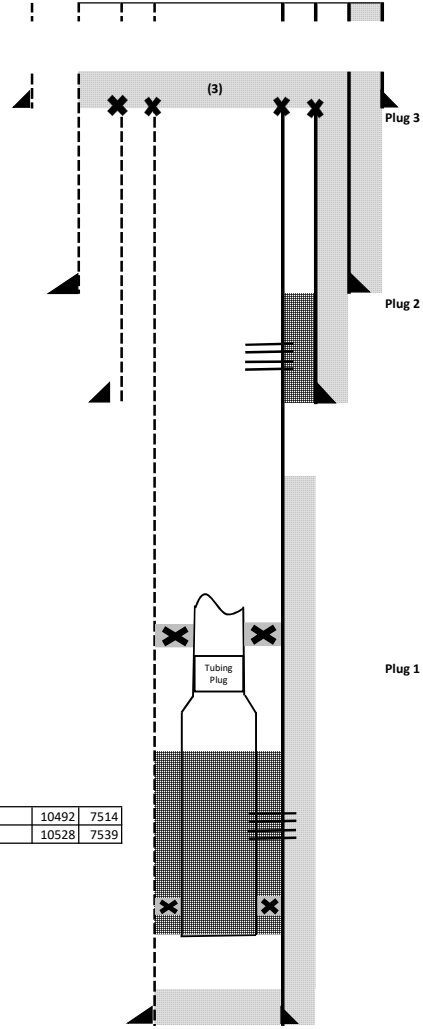
Squeeze cement through I Sand Perforations	Isolation of I Sand perfs	Allow for sufficient WOC time. Pressure test.
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MD TVD

A-19 P&A Scenario option 3:

Squeeze I-sand perfs.
 Install tubing plug ~100 ft below production packer @ 10322
 Pull tubing @ ~10322 ft MD (utilize upward force)
 Pull tubing.

Assumptions: See embedded Notes



WD	479
RKB	53
RKB to ML	532
Cut point 30"x16"x10- 3/4"x7"	547

30" shoe	908
Top of Plug	682
Bottom of plug	832
7" x 10-3/4" cut	832

TOC (annulus)	532
16" shoe	1626

TOC (annulus)	532
10-3/4" shoe	4305

TOC (annulus)	8200
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Top of tubing	10322
Production packer	10322

Tubing Plug	10422
Top of screen	10471

I Sand Top	10492	7514
I Sand Base	10528	7539

I Sand Top Perf	10481	7504
I Sand Base Perf	10514	7526

Sump Packer	10519
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PBTD/TOF	10593	
7" shoe/TD	10680	7639

MD TVD

Requirement: BSSE Leak Path Addressed Testing/Verification Requirements

This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment

30"x16"x10-3/4"x7" Sever 250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.		
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Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	wellbore to seafloor	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (3) Cut and pull 7" & 10-3/4" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.	10-3/4" x 16" annulus (C annulus) Also addresses 7-5/8" x 10-3/4" annulus (this could eliminate 200ft cement squeeze behind 7" casing)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (2) Perforate 7" casing, squeeze cement to B annulus BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC time.
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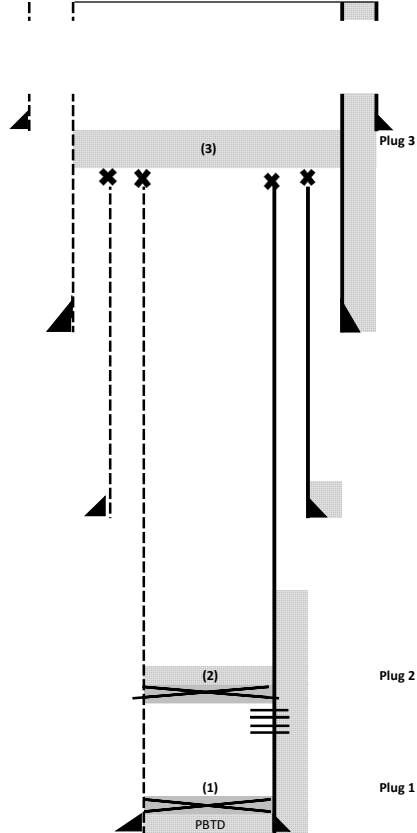
Plug (1) Land tubing plug in X landing nipple, 100 ft below production packer . 49' ft above 8" gauge screen	I-sand perfs through 2-7/8" tubing	Allow for sufficient WOC time. Pressure test.
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Squeeze cement through L Sand Perforations	Isolation of L Sand Perfs	Allow for sufficient WOC time. Pressure test.
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MD TVD

A-20 P&A Scenario Option 1:
 Pull entire Completion.
 Pull 2-3/8" tubing @ ~14091 ft (SLB Quantum packer). Retrieve packer.
 Cut tubing above sump packer @ 14,214 ft.
 Drill out sump packer.

Assumptions: See embedded Notes



WD	479
RKB	128
RKB to ML	607
Cut point 30"x16"x10-3/4"x7"	622

30" shoe	904
Top of Plug	757
Bottom of plug	957
10-3/4" cut point	957

TOC (annulus)	607
16" shoe	1632

TOC (annulus)	4565
10-3/4" shoe	5065

TOC (annulus)	13656
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TOC (wellbore)	14056	
Bridge Plug	14106	
K Sand Top Perf	14156	7570
K Sand Base Perf	14209	7599

Bridge Plug	14272	
PBTD/TOF	14272	
7-5/8" shoe/TD	14370	7689

MD TVD

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.	N/A	
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Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	wellbore to seafloor	Allow for sufficient WOC, tag up with agreed upon weight. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (3) Cut and pull 7"- & 10-3/4" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end. Possible Alt. Compliance - set plug deeper, may leave excessive cement in BOP stack	10-3/4" x 16" annulus 7" x 10-3/4" annulus	Allow for sufficient WOC, tag up with agreed upon weight. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

PLUG 3 IS A COMBINATION BARRIER FOR:

250.1715.a.(8) A well with casing;
 AND
 250.1715.a.(4) A casing stub where the stub end is within the casing
 AND
 250.1715.a(7) A subsea well with unsealed annulus

Plug (2) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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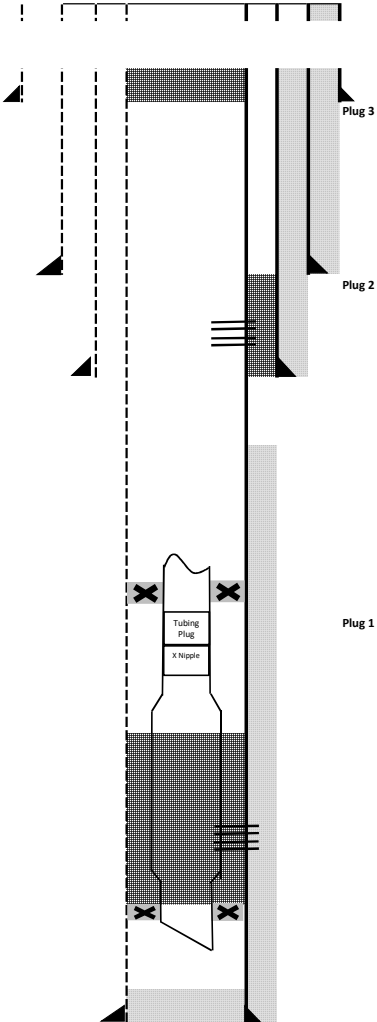
Plug (1) BSEE: 250.420.b.(3) ...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.	Possible failure of wellbore cement below float collar	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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MD TVD

A--20 P&A Scenario option 2:

Squeeze K-sand perfs.
 Install tubing plug in X Nipple @ 14,106 ft, ~15 ft below production packer @ 14091 ft
 Pull tubing @ ~14091 ft MD (utilize upward force)
 Pull tubing.

Assumptions: See embedded Notes



WD	479
RKB	128
RKB to ML	607
Cut point 30"x16"x10- 3/4"x7"	622

30" shoe	904
Top of Plug	757
Bottom of plug	907

TOC (annulus)	607
16" shoe	1632

TOC (annulus)	4565
10-3/4" shoe	5065

TOC (annulus)	13656
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Top of tubing	14091
Production packer	14091

Tubing Plug	14106
X Nipple	14106

K Sand Top Perf	14156	7570
K Sand Base Perf	14209	7599

Sump Packer	14214
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PBTD/TOF	14272	
7-5/8" shoe/TD	14370	7689

MD TVD

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

This option does not consider 10-3/4" x 16" possible leak path.

This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or

250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.	N/A	
Plug (3) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7-5/8" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

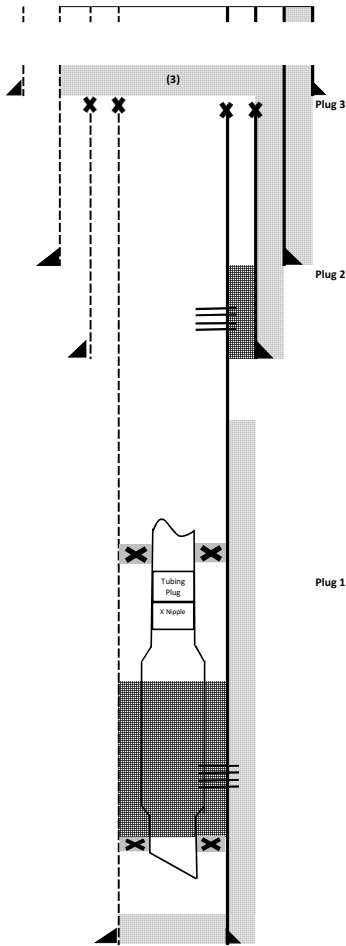
Plug (2) Perforate 7-5/8" casing, squeeze cement to B annulus BSSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7-5/8" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC time.
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Plug (1) Land tubing plug in X landing nipple, 15 ft below production packer. 44" ft above 8" gauge screen	K-sand perfs through 2-7/8" tubing	Allow for sufficient WOC time. Pressure test.
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Squeeze cement through K Sand Perforations	Isolation of K Sand Perfs	Allow for sufficient WOC time. Pressure test.
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MD TVD

A-20 P&A Scenario option 3:
 Squeeze K-sand perfs.
 Install tubing plug in X Nipple @ 14,106 ft , ~15 ft below production packer @ 14091 ft
 Pull tubing @ ~14091 ft MD (utilize upward force)
 Assumptions: See embedded Notes



WD	479
RKB	128
RKB to ML	607
Cut point 30"x16"x10-3/4"x7"	622

30" shoe	904
Top of Plug	757
Bottom of plug	907
7-5/8" x 10-3/4" cut point	907

TOC (annulus)	607
16" shoe	1632

TOC (annulus)	4565
10-3/4" shoe	5065

TOC (annulus)	13656
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Top of tubing	14091
Production packer	14091

Tubing Plug	14106
X Nipple	14106

K Sand Top Perf	14156	7570
K Sand Base Perf	14209	7599

Sump Packer	14214
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PBTD/TOF	14272	
7-5/8" shoe/TD	14370	7689

MD TVD

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

This option does not address 250.420.b(3). For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.

30"x16"x10-3/4"x7" Sever 250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.		
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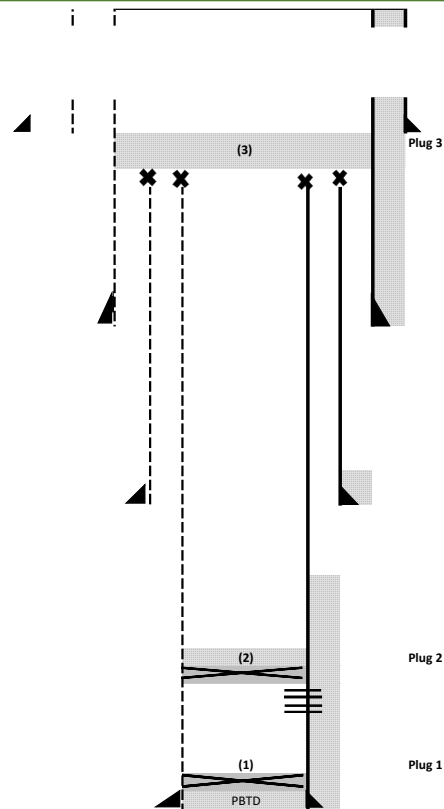
<p>Plug (3) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</p>	wellbore to seafloor	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
<p>Plug (3) Cut and pull 7" & 10-3/4" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.</p>	10-3/4" x 16" annulus (C annulus) and 7-5/8" x 10-3/4" (B annulus)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

<p>Plug (2) Perforate 7-5/8" casing, squeeze cement to B annulus BSSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.</p>	7-5/8" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC time.
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<p>Plug (1) Land tubing plug in X landing nipple, 15 ft below production packer, 44" ft above 8" gauge screen</p>	K-sand perfs thru 2-7/8" tubing	Allow for sufficient WOC time. Pressure test.
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Squeeze cement through K Sand Perforations	Isolation of K Sand Perfs	Allow for sufficient WOC time. Pressure test.
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A-21 P&A Scenario Option 1:
 Pull entire Completion.
 Pull 2-3/8" tubing @ ~7786 ft MD (Hydrow packer). Tubing can be unstung with ~35k upward force
 Retrieve Hydrow packer.
 Retrieve 7" SLB Quantum packer @ 8420 ft MD.
 Cut and pull tubing and screen above sump packer @ 8630 ft.
 Drill out sump packer
 Assumptions: See embedded Notes



WD	479
RKB	128
RKB to ML	607
Cut point 30"x16"x10-3/4"x7"	622

30" shoe	902
Top of Plug	757
Bottom of plug	957
10-3/4" cut point	957

TOC (annulus)	607
16" shoe	1615

TOC (annulus)	3325
10-3/4" shoe	3825

TOC (annulus)	7350
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TOC (wellbore)	8482	
Bridge Plug	8532	
I Sand Top Perf	8582	7030
I Sand Base Perf	8624	7062

Bridge Plug	8736	
PBTD/TOF	8736	
7" shoe/TD	8845	7228

MD TVD

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.	N/A	
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Plug (3) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline	wellbore to seabloor	Allow for sufficient WOC, tag up with agreed upon weight. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (3) Cut and pull 7- & 10-3/4" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end. Possible Alt. Compliance - set plug deeper, may leave excessive cement in BOP stack	10-3/4" x 16" annulus and 7" x 10-3/4" annulus	Allow for sufficient WOC, tag up with agreed upon weight. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

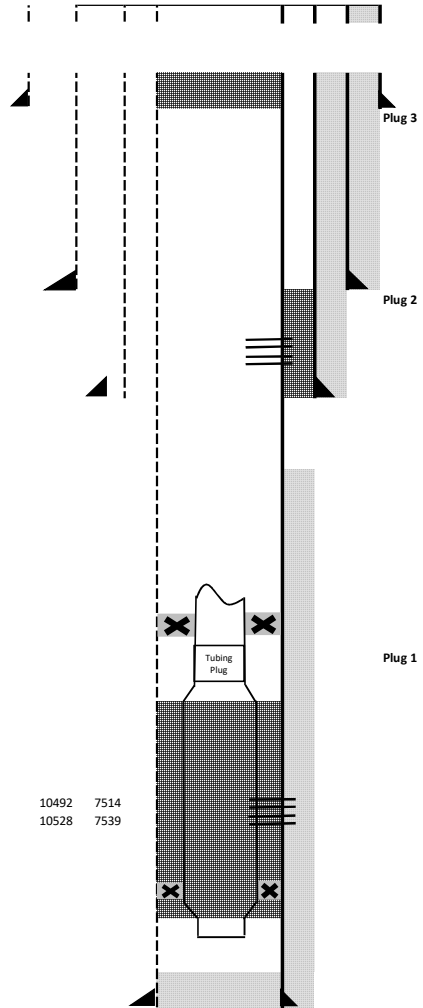
PLUG 3 IS A COMBINATION BARRIER FOR:

 250.1715.a.(8) A well with casing;
 AND
 250.1715.a (4) A casing stub where the stub end is within the casing
 AND
 250.1715.a(7) A subsea well with unsealed annulus

Plug (2) BSSE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug	isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (1) BSSE: 250.420.b.(3) ...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.	Possible failure of wellbore cement below float collar	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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MD TVD
A-21 P&A Scenario option 2:
 Squeeze I-sand perfs.
 Install tubing plug ~15 ft below production packer in X landing nipple @ 8435 ft MD
 Pull tubing from 7" (WFD) Hydrow packer @ ~7786 ft MD (utilize upward force of Retrieve 7" Hydrow packer
 Assumptions: See embedded Notes



I Sand Top 10492 7514
 I Sand Base 10528 7539

MD TVD

WD	479
RKB	128
RKB to ML	607
Cut point	
30"x16"x10-3/4"x7"	622
30" shoe	902
Top of Plug	757
Bottom of plug	907

TOC (annulus)	607
16" shoe	1615

Perforate 7" casing, squeeze cement to B annulus

TOC (annulus)	607
10-3/4" shoe	3825

TOC (annulus)	7350
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Top of tubing	8419
Production packer	8420

Tubing Plug	8435
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Top of screen	8570
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I Sand Top Perf	8582	7030
I Sand Base Perf	8624	7062

Sump Packer	8630
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EOT	8636
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PBTD/TOF	8736	
7" shoe/TD	8845	7228

Requirement: BSSE **Leak Path Addressed** **Testing/Verification Requirements**
 This option does not consider 10-3/4" x 16" possible leak path.

This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or

250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.	N/A	
Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

Plug (2) Perforate 7" casing, squeeze cement to B annulus BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline:	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC time.
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Plug (1) Land tubing plug in X landing nipple, 100 ft below production packer - 49' ft above 8" gauge screen	I-sand perfs through 2-7/8" tubing	Allow for sufficient WOC time. Pressure Test.
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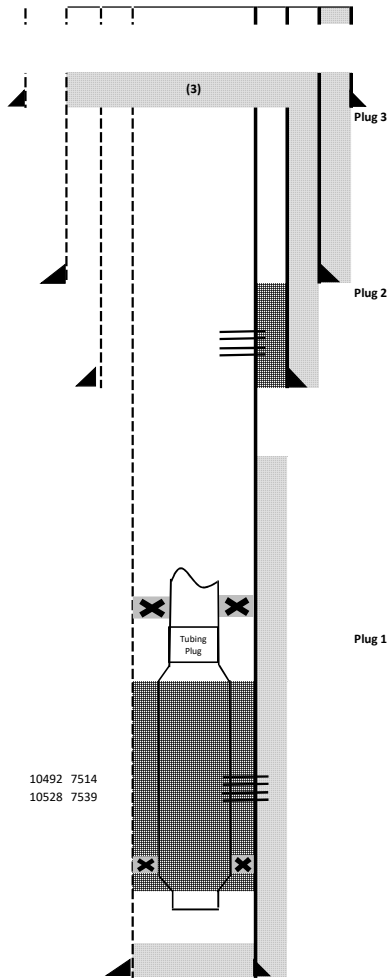
Squeeze cement through I Sand Perforations	Isolation of I Sand Perfs	Allow for sufficient WOC time. Pressure Test.
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MD TVD

A-21 P&A Scenario option 3:

Squeeze I-sand perfs.
 Install tubing plug ~15 ft below production packer in X landing nipple @ 8435 ft MD
 Pull tubing from 7" (WFD) Hydrow packer @ ~7786 ft MD (utilize upward force of Retrieve 7" Hydrow packer)

Assumptions: See embedded Notes



I Sand Top 10492 7514
 I Sand Base 10528 7539

MD TVD

WD	479
RKB	128
RKB to ML	607
Cut point	
30"x16"x10-3/4"x7"	622

30" shoe	902
Top of Plug	757
Bottom of plug	772
7" x 10-3/4" cut point	772

TOC (annulus)	607
16" shoe	1615

TOC (annulus)	607
10-3/4" shoe	3825

TOC (annulus)	7350
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Top of tubing	8419
Production packer	8420

Tubing Plug	8435
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Top of screen	8570
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I Sand Top Perf	8582	7030
I Sand Base Perf	8624	7062

Sump Packer	8630
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EOT	8636
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PBD/TOF	8736	
7" shoe/TD	8845	7228

Requirement: BSSE Leak Path Addressed Testing/Verification Requirements

This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or

30"x16"x10-3/4"x7" Sever
250.1716.(a) To what depth must I remove wellheads and casings?
 Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.

Plug (3) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	wellbore to seafloor	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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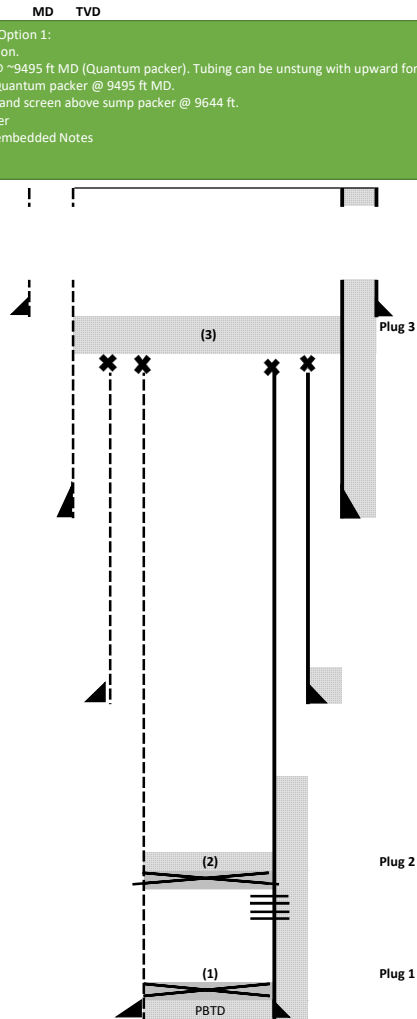
Plug (3)
 Cut and pull 7" & 10-3/4"
 BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing
 and
 (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.

Plug (2) Perforate 7" casing, squeeze cement to B annulus BSSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC time.
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Plug (1) Land tubing plug in X landing nipple, 100 ft below production packer .49' ft above 8" gauge screen	I-sand perfs through 2-7/8" tubing	Allow for sufficient WOC time. Pressure test.
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Squeeze cement through I Sand Perforations	Isolation of I Sand Perfs	Allow for sufficient WOC time. Pressure test.
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A-22 P&A Scenario Option 1:
 Pull entire Completion.
 Pull 2-3/8" tubing @ ~9495 ft MD (Quantum packer). Tubing can be unstung with upward force
 ReRetrieve 7" SLB Quantum packer @ 9495 ft MD.
 Cut and pull tubing and screen above sump packer @ 9644 ft.
 Drill out sump packer
 Assumptions: See embedded Notes



WD	479
RKB	70
RKB to ML	549
Cut point 30"x16"x10-3/4"x7"	564

30" shoe	909
Top of Plug	699
Bottom of plug	899
10-3/4" cut point	899

TOC (annulus)	549
16" shoe	1625

TOC (annulus)	3372
10-3/4" shoe	3872

TOC (annulus)	9122
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TOC (wellbore)	9522
Bridge Plug	9572
I Sand Top Perf	9622 7462
I Sand Base Perf	9638 7473

Bridge Plug	9708
PBTD/TOF	9708
7" shoe/TD	9790 7582

MD TVD

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.	N/A	
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Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudli	wellbore to seafloor	Allow for sufficient WOC, tag up with agreed upon weight. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (3) Cut and pull 7-" & 10-3/4" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end. excessive cement in BOP stack (historical West Aunga BHP to BP)	10-3/4" x 16" annulus 7" x 10-3/4" annulus	Allow for sufficient WOC, tag up with agreed upon weight. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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PLUG 3 IS A COMBINATION BARRIER FOR:
 250.1715.a.(8) A well with casing:
 AND
 250.1715.a (4) A casing stub where the stub end is within the casing
 AND
 250.1715.a(7) A subsea well with unsealed annulus

Plug (2) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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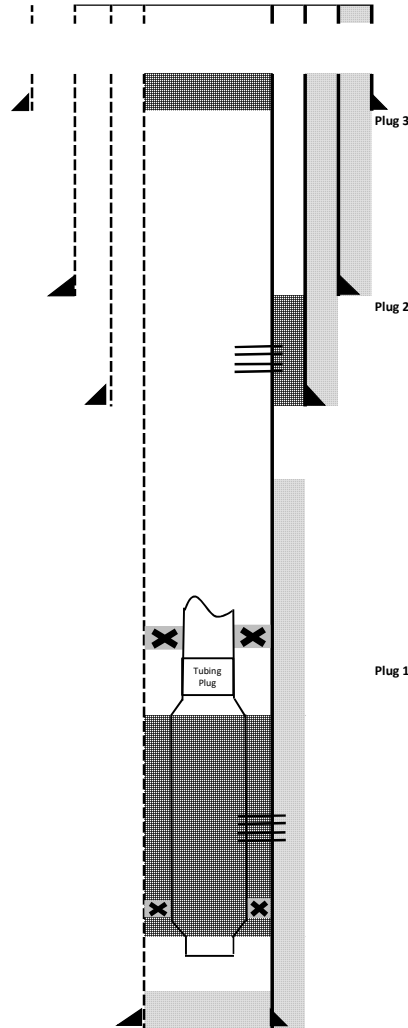
BSEE: 250.420.b.(3)For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.	Possible failure of wellbore cement below float collar	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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MD TVD

A-22 P&A Scenario option 2:

Squeeze I-sand perfs.
 Install tubing plug ~100 ft below production @ 9595 ft MD
 Pull tubing from 7" SLB Quantum packer @ ~9495 ft MD (utilize upward force)

Assumptions: See embedded Notes

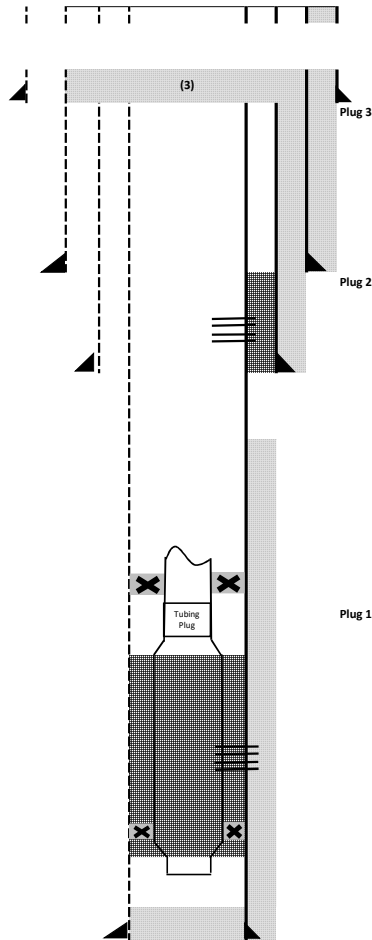


	MD	TVD
WD	479	
RKB	70	
RKB to ML	549	
Cut point		
30"x16"x10-3/4"x7"	564	
30" shoe	909	
Top of Plug	699	
Bottom of plug	849	
TOC (annulus)	549	
16" shoe	165	
TOC (annulus)	3372	
10-3/4" shoe	3872	
TOC (annulus)	9122	
Production packer	9495	
Flapper valve	9520	
Tubing Plug	9595	
Top of screen	9614	
I Sand Top Perf	9622	7462
I Sand Base Perf	9638	7473
Sump Packer	9644	
PBTD/TOF	9708	
7" shoe/TD	9790	7582

Requirement: BSSE	Leak Path Addressed	Testing/Verification Requirements
This option does not consider 10-3/4" x 16" possible leak path.		
This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or		
250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.	N/A	
Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (2) Perforate 7" casing, squeeze cement to B annulus BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC time.
Plug (1) Land tubing plug in X landing nipple, 100 ft below production packer. 49' ft above 8" gauge screen	I-sand perfs through 2-7/8" tubing	Allow for sufficient WOC time. Pressure test.
Squeeze cement through I Sand Perforations	Isolation of I Sand Perfs	Allow for sufficient WOC time. Pressure test.

MD TVD

A-22 P&A Scenario option 3:
 Squeeze I-sand perfs.
 Install tubing plug ~100 ft below production @ 9595 ft MD
 Pull tubing from 7" SLB Quantum packer @ ~9495 ft MD (utilize upward force)
 Assumptions: See embedded Notes



MD TVD

WD	479
RKB	70
RKB to ML	549
Cut point 30"x16"x10- 3/4"x7"	564

30" shoe	909
Top of Plug	699
Bottom of plug	714
7" x 10-3/4" cut point	714

TOC (annulus)	549
16" shoe	1625

Perforate 7" casing, squeeze cement to B annulus

TOC (annulus)	549
10-3/4" shoe	3872

TOC (annulus)	9122
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Production packer	9495
Flapper valve	9520
Tubing Plug	9395

Top of screen	9614
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I Sand Top Perf	9622	7462
I Sand Base Perf	9638	7473

Sump Packer	9644
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PBTD/TOF	9708	
7" shoe/TD	9790	7582

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or

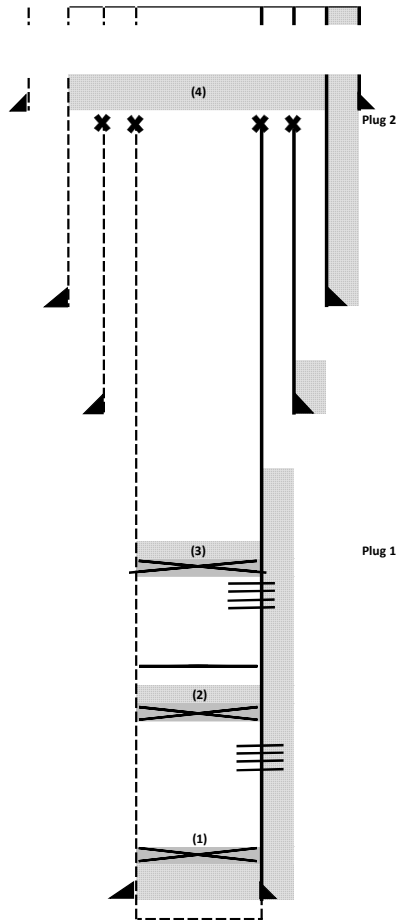
<p>30"x16"x10-3/4"x7" Sever 250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.</p> <p>Plug (3) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</p> <p>Plug (3) Cut and pull 7" & 10-3/4" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing (B) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.</p>	7" Wellbore	<p>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</p> <p>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</p>
<p>Plug (2) Perforate 7" casing, squeeze cement to B annulus BSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.</p>	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC time.
<p>Plug (1) Land tubing plug in X landing nipple, 100 ft below production packer. .49" ft above 8" gauge screen</p>	I-sand perfs through 2-7/8" tubing	Allow for sufficient WOC time. Pressure test.
Squeeze cement through I Sand Perforations	Isolation of I Sand Perfs	Allow for sufficient WOC time. Pressure test.

MD TVD

A-23 P&A Scenario option 1:

Pull entire completion above M-1 and N-1 perfs.
 Cut and Pull 2-7/8" tubing above gravel pack packer @ 10080 ft MD.
 Retrieve gravel pack packer.
 Pull 8" gauge screen.
 Drill out sump packer.
 Retrieve Quantum packer @ 10375 ft MD.
 Pull lower completion from sump packer @ 10615 ft MD.
 Drill out sump packer if not able to retrieve.

Assumptions: See embedded Notes



MD TVD

WD	479
RKB	70
RKB to ML	549
Cut point 30"x16"x10-3/4"x7"	564

30" shoe	907
Top of Plug	699
Bottom of plug	849
7" x 10-3/4" cut point	849

TOC (annulus)	549
16" shoe	1615

TOC (annulus)	3030
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10-3/4" shoe	3530
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TOC (annulus)	9703
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TOC (wellbore)	10103
Bridge Plug	10153
M-1 Sand Top Perf	10203
M-1 Sand Base Perf	10246
	9298

Cement above	10438
Bridge Plug	10488

N-1 Sand Top	10538
N-1 Sand Base	10608

Bridge Plug	10667
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PBTD/TOF	10667
7" shoe	10716
TD	10721
	9598

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

<p>30"x16"x10-3/4"x7-5/8" Sever 250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.</p>		
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<p>Plug (4) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</p>	wellbore to seafloor	<p>Allow for sufficient WOC, tag up with agreed upon weight. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</p>
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<p>Plug (4) Cut and pull 7" & 10-3/4" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.</p>	10-3/4" x 16" (C) annulus 7" x 10-3/4" (B)annulus	<p>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</p>
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PLUG 4 IS A COMBINATION BARRIER FOR:
 250.1715.a.(8) A well with casing;
 AND
 250.1715.a.(4) A casing stub where the stub end is within the casing
 AND
 250.1715.a(7) A subsea well with unsealed annulus

<p>Plug (3) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug</p>	Isolation of perforations	<p>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</p>
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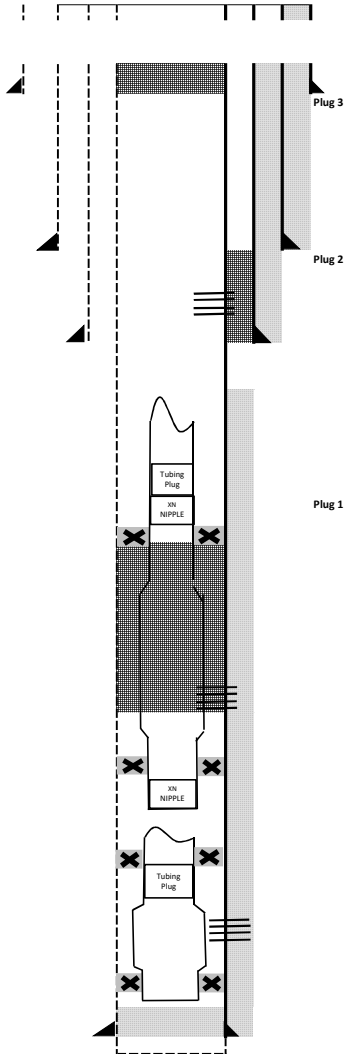
<p>Plug (2) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug</p>	Isolation of perforations	<p>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</p>
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<p>Plug (1) BSEE: 250.420.b.(3) ...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.</p>	Possible failure of wellbore cement below float collar	<p>Test as per bridge plug service company recommendations</p>
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MD TVD

A-23 P&A Scenario option 2:

N-1 Sands previously abandoned with tubing plug and cement.
 Squeeze M-1 Sand perfs.
 Install tubing plug in XN landing nipple @ 10033 ft MD
 Cut 2-7/8" tubing @ ~9933 ft MD (~100 ft above tubing plug)
 Pull tubing.



MD	TVD	
WD	479	
RKB	70	
RKB to ML	549	
Cut point	30"x16"x10-3/4"x7"	
	564	
30" shoe	907	
Top of Plug	699	
Bottom of plug	849	
TOC (annulus)	549	
16" shoe	1615	
TOC (annulus)	3030	
10-3/4" shoe	3530	
TOC (annulus)	9703	
2-7/8" tubing cut point	9933	
Tubing Plug	10033	
XN Nipple	10033	
Gravel Pack packer	10080	
M-1 Sand Top Perf	10203	9271
M-1 Sand Base Perf	10246	9298
Sump Packer	10252	
XN Nipple	10261	
Scoop	10374	
Cement above	10430	
EL bridge plug	10450	
Top of screen	10524	
N-1 Sand Top	10538	9482
N-1 Sand Base	10608	9526
Sump Packer	10615	
P8TD/TOF	10667	
7" shoe	10716	
TD	10721	9598

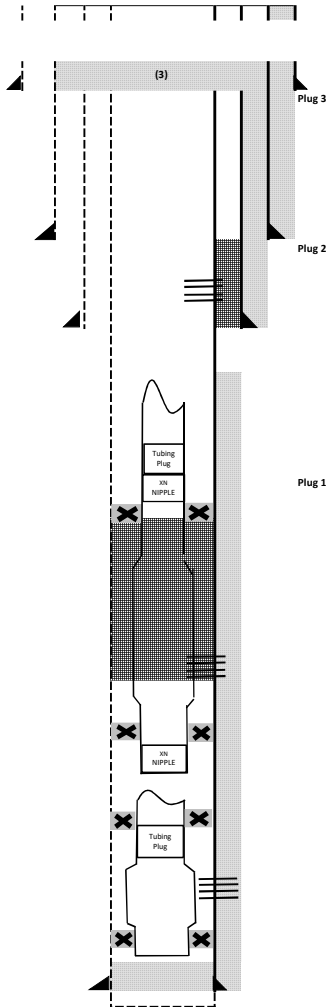
Requirement: BSSE	Leak Path Addressed	Testing/Verification Requirements
This option does not consider 10-3/4" x 16" possible leak path.		
This option does not address 250.420.b(3)... For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or		
250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.	N/A	
Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (2) Perforate 7" casing, squeeze cement to B annulus BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC
Plug (1) Tubing plug set in XN landing nipple.	L-3 sand perfs through 2-3/8" tubing	Allow for sufficient WOC. Pressure test.
Squeeze cement through M-1 Sand Perforations	Isolation of M-1 Sand Perfs	Allow for sufficient WOC. Pressure test.
A-23 As Built well schematic indicates: 20 ft of cement pumped above tubing plug	N-1 sand perfs through 2-7/8" tubing	

MD TVD

A-23 P&A Scenario option 3:

N-1 Sands previously abandoned with tubing plug and cement.
 Squeeze M-1 Sand perfs.
 Install tubing plug in XN landing nipple @ 10033 ft MD
 Cut 2-7/8" tubing @ ~9933 ft MD (~100 ft above tubing plug).
 Pull tubing.

Assumptions: See embedded Notes



MD	TVD
WD	479
RKB	70
RKB to ML	549
Cut point 30"x16"x10-3/4"x7"	564
30" shoe	907
Top of Plug	699
Bottom of plug	849
7" x 10-3/4" cut	849
TOC (annulus)	549
16" shoe	1615
TOC (annulus)	3030
10-3/4" shoe	3530
TOC (annulus)	9703
2-7/8" tubing cut point	9933
Tubing Plug	10033
XN Nipple	10033
Gravel Pack packer	10080
M-1 Sand Top Perf	10203 9271
M-1 Sand Base Perf	10246 9298
Sump Packer	10252
XN Nipple	10261
Scoop	10374
Cement above	10430
EL bridge plug	10450
Top of screen	10524
N-1 Sand Top	10538 9482
N-1 Sand Base	10608 9526
Sump Packer	10615
P&TD/TOF	10667
7" shoe	10716
TD	10721 9598

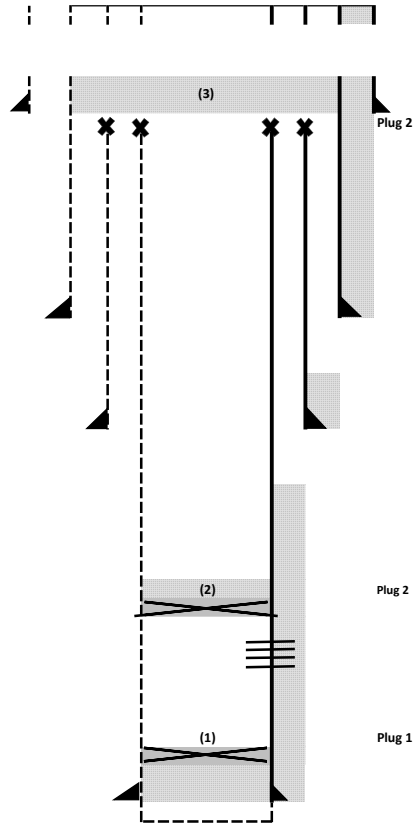
Requirement: BSSE	Leak Path Addressed	Testing/Verification Requirements
This option does not address 250.420.b(3). For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or		
30"x16"x10-3/4"x7" Sever 250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.		
Plug (3) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7" wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (3) Cut and pull 7" 8, 10-3/4" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.	10-3/4" x 16" annulus (C annulus) and 7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
Plug (2) Perforate 7" casing, squeeze cement to B annulus BSSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC
Plug (1) Tubing plug set in XN landing nipple.	M-1 -sand perfs through 2-3/8" tubing	Allow for sufficient WOC. Pressure test.
Squeeze cement through M-1 Sand Perforations	Isolation of M-1 Sand Perfs	Allow for sufficient WOC. Pressure test.
A-23 As Built well schematic indicates: 20 ft of cement pumped above tubing plug	N-1 sand perfs through 2-7/8" tubing	

MD TVD

A-24 P&A Scenario option 1:

Cut and pull completion above Comp-Set II HP Packer @ 7580 ft MD.
 Retrieve Comp-Set II HP Packer.
 Cut tubing above lower-most packer.
 Release from Comp-Set II HP Packer @ 8033 ft MD.
 Pull packer and tubing.
 Retrieve deepest Comp-Set II HP Packer @ 8240 ft MD.

Assumptions: See embedded Notes



WD	479
RKB	70
RKB to ML	549
Cut point 30"x16"x10-3/4"x7"	564

30" shoe	908
Top of Plug	699
Bottom of plug	849
7" x 10-3/4" cut point	849

TOC (annulus)	549
16" shoe	1622

TOC (annulus)	3683
10-3/4" shoe	4183

TOC (annulus)	7650
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Cement above	8050
Bridge Plug	8100

I Sand Top	8150
I Sand Base	8232

Bridge Plug	8277
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P8TD/TOF	8277	
7" shoe	8364	
TD	8375	6445

MD TVD

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

<p>30"x16"x10-3/4"x7-5/8" Sever 250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.</p>		
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<p>Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</p>	wellbore to seafloor	Allow for sufficient WOC, tag up with agreed upon weight. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
<p>Plug (3) Cut and pull 7" & 10-3/4" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.</p>	10-3/4" x 16" (C) annulus 7" x 10-3/4" (B) annulus	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

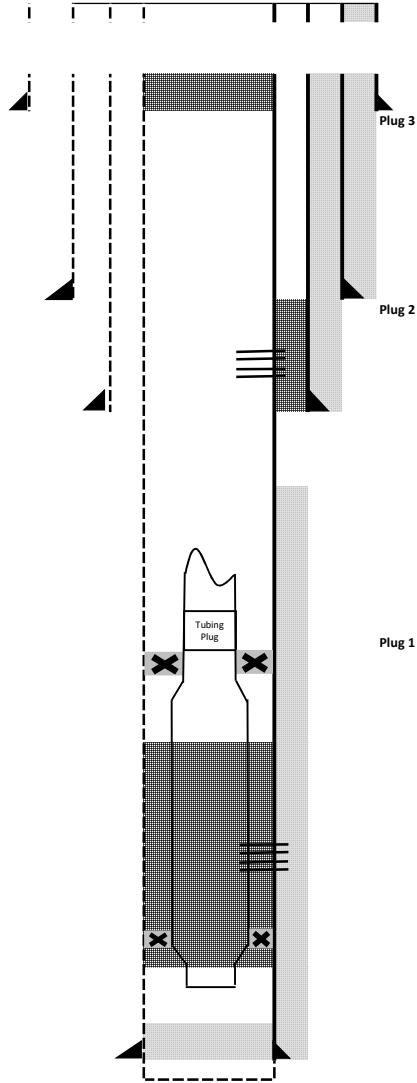
PLUG 3 IS A COMBINATION BARRIER FOR:
 250.1715 a.(8) A well with casing;
 AND
 250.1715 a (4) A casing stub where the stub end is within the casing
 AND
 250.1715.a(7) A subsea well with unsealed annulus

<p>Plug (2) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (ii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug</p>	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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<p>Plug (1) BSEE: 250.420.b.(3) ...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.</p>	Possible failure of wellbore cement below float collar	Test as per bridge plug service company recommendations
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MD TVD

A-24 P&A Scenario option 2:
 Squeeze I-sand perfs.
 Install tubing plug in X landing nipple @ 8032 ft MD just above Comp-set II HP production packer.
 Cut and pull tubing above Comp-set II HP packer @ ~7589 ft MD
 Retrieve Comp-set II HP packer and pull tubing attached
 Assumptions: See embedded Notes



MD TVD

WD	479
RKB	70
RKB to ML	549
Cut point 30"x16"x10-3/4"x7"	564

30" shoe	908
Top of Plug	699
Bottom of plug	849

TOC (annulus)	549
16" shoe	1622

TOC (annulus)	3683
10-3/4" shoe	4183

TOC (annulus)	7650
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2-7/8" tubing cut point	7932
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Tubing Plug	8032
Production packer	8033

Top of screen	8145
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I Sand Top Perf	8150	6278
I Sand Base Perf	8232	6339

Comp-Perm II packer	8240
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PBTD/TOF	8277	
7" shoe	8364	
TD	8375	6445

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

This option does not consider 10-3/4" x 16" possible leak path.
 This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or

250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.	N/A	
Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

Plug (2) Perforate 7" casing, squeeze cement to B annulus BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC
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Plug (1) Land tubing plug in X landing nipple, just above production packer . 113' ft above 8" gauge screen	i-sand perfs through 2-7/8" tubing	Allow for sufficient WOC time. Pressure test.
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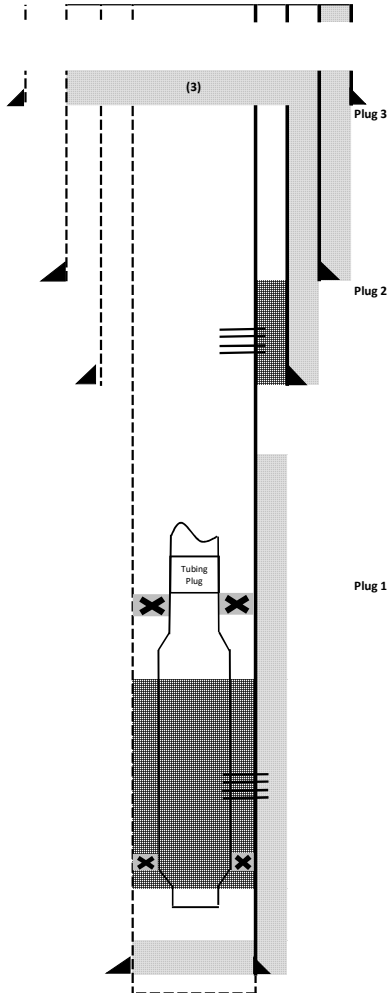
Squeeze cement through I Sand Perforations	Isolation of I Sand Perfs	Allow for sufficient WOC time. Pressure test.
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MD TVD

A-24 P&A Scenario option 3:

Squeeze I-sand perfs.
 Install tubing plug in X landing nipple @ 8032 ft MD just above Comp-set II HP production packer.
 Cut and pull tubing above Comp-set II HP packer @ ~7589 ft MD
 Retrieve Comp-set II HP packer and pull tubing attached

Assumptions: See embedded Notes



MD TVD

WD	479
RKB	70
RKB to ML	549
Cut point	
30"x16"x10-3/4"x7"	564
30" shoe	908
Top of Plug	699
Bottom of plug	849
7" x 10-3/4" cut	849

TOC (annulus)	549
16" shoe	1622

TOC (annulus)	3683
10-3/4" shoe	4183

TOC (annulus)	7650
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Tubing Plug	8032
Production packer	8033

Top of screen	8145
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I Sand Top Perf	8150	6278
I Sand Base Perf	8232	6339

Comp-Perm II packer	8240
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PBTD/TOF	8277	
7" shoe	8364	
TD	8375	6445

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These

<p>30"x16"x10-3/4"x7" Sever 250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.</p> <p>Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</p>	7" Wellbore	<p>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</p>
<p>Plug (3) Cut and pull 7" & 10-3/4" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.</p>	10-3/4" x 16" annulus (C annulus) and 7" x 10-3/4" annulus (B annulus)	<p>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</p>

<p>Plug (2) Perforate 7" casing, squeeze cement to B annulus BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.</p>	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC
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<p>Plug (1) Land tubing plug in X landing nipple, just above production packer . 113' ft above 8" gauge screen</p>	I-sand perfs through 2-7/8" tubing	Allow for sufficient WOC time. Pressure test.
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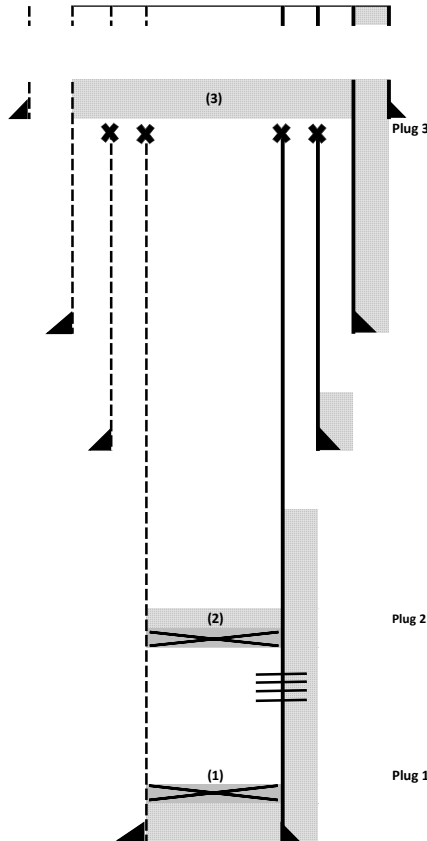
Squeeze cement through I Sand Perforations	Isolation of I Sand Perfs	Allow for sufficient WOC time. Pressure test.
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MD TVD

A-25 P&A Scenario option 1:

Cut and pull tubing Quantum Packer @ 11488 ft MD.
 Retrieve Quantum Packer.
 Cut tubing above sump packer @ 11708 ft MD.
 Drill out sump packer if necessary.

Assumptions: See embedded Notes



WD	479
RKB	70
RKB to ML	549
Cut point 30"x16"x10- 3/4"x7"	564

30" shoe	906
Top of Plug	699
Bottom of plug	849
7" x 10-3/4" cut point	849

TOC (annulus)	549
16" shoe	1625

TOC (annulus)	3983
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10-3/4" shoe	4483
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TOC (annulus)	11080
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Cement above	11480
Bridge Plug	11530

L Sand Top	11580
L Sand Base	11702

Bridge Plug	11755
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PBTD/TOF	11755
7" shoe/TD	11845

MD TVD

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

<p>30"x16"x10-3/4"x7-5/8" Sever 250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.</p>		
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<p>Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</p>	wellbore to seafloor	Allow for sufficient WOC, tag up with agreed upon weight. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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<p>Plug (3) Cut and pull 7" & 10-3/4" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.</p>	10-3/4" x 16" (C) annulus 7" x 10-3/4" (B)annulus	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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PLUG 3 IS A COMBINATION BARRIER FOR:

250.1715.a.(8) A well with casing;
 AND
 250.1715.a (4) A casing stub where the stub end is within the casing
 AND
 250.1715.a(7) A subsea well with unsealed annulus

<p>Plug (2) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug</p>	isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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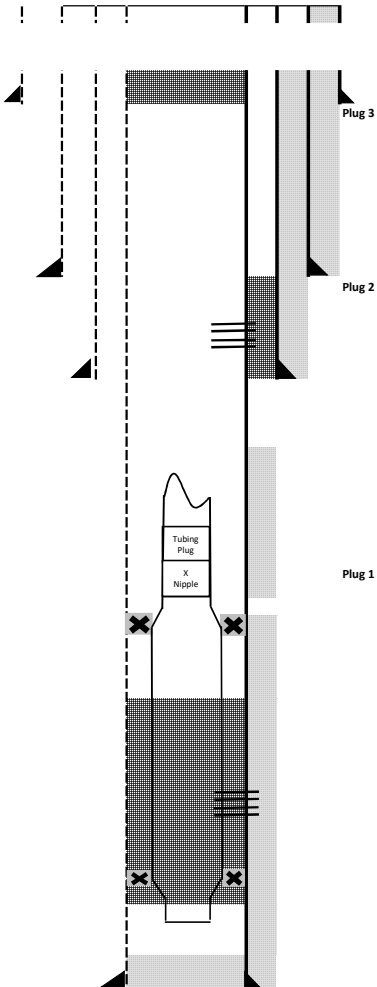
<p>Plug (1) BSEE: 250.420.b.(3) For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations.</p>	Possible failure of wellbore cement below float collar	Test as per bridge plug service company recommendations
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MD TVD

A-25 P&A Scenario option 2:

Squeeze L-sand perfs.
 Install tubing plug in X landing nipple @ 11444 ft MD, 40 ft above packer.
 Cut and pull tubing @ 100 ft above tubing plug.

Assumptions: See embedded Notes



WD	479
RKB	70
RKB to ML	549
Cut point 30"x16"x10- 3/4"x7"	564

30" shoe	906
Top of Plug	699
Bottom of plug	849

TOC (annulus)	549
16" shoe	1625

TOC (annulus)	3983
10-3/4" shoe	4483

TOC (annulus)	11080
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2-7/8" tubing cut point	11344
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Tubing Plug	11444
X Landing Nipple	11444

Production packer	11488
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Top of screen	11572
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L Sand Top Perf	11580	7598
L Sand Base Perf	11702	7676

Sump Packer	11708
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PBTD/TOF	11755
7" shoe/TD	11845

MD TVD

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

This option does not consider 10-3/4" x 16" possible leak path.

This option does not address 250.420.b(3). For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or

250.1716.(a) To what depth must I remove wellheads and casings?

Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.

N/A

Plug (3) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (2) Perforate 7" casing, squeeze cement to B annulus BSSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC
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Plug (1) Land tubing plug in X landing nipple, just above production packer. 128' ft above 8" gauge screen	L-sand perfs through 2-7/8" tubing	Allow for sufficient WOC time. Pressure test.
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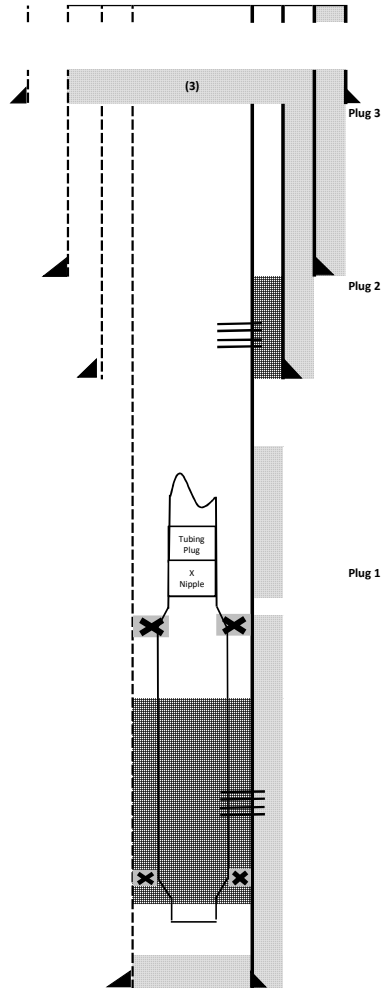
Squeeze cement through L Sand Perforations	Isolation of L Sand Perfs	Allow for sufficient WOC time. Pressure test.
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MD TVD

A-25 P&A Scenario option 3:

Squeeze L-sand perfs.
Install tubing plug in X landing nipple @ 11444 ft MD, 40 ft above packer.
Cut and pull tubing @ 100 ft above tubing plug.

Assumptions: See embedded Notes



WD	479
RKB	70
RKB to ML	549
Cut point 30"x16"x10- 3/4"x7"	564

30" shoe	906
Top of Plug	699
Bottom of plug	849
7" x 10-3/4" cut	849

TOC (annulus)	549
16" shoe	1625

TOC (annulus)	3983
10-3/4" shoe	4483

TOC (annulus)	11080
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2-7/8" tubing cut point	11344
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Tubing Plug	11444
X Landing Nipple	11444

Production packer	11488
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Top of screen	11572
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L Sand Top Perf	11580	7598
L Sand Base Perf	11702	7676

Sump Packer	11708
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PBDT/TOF	11755
7" shoe/TD	11845

MD TVD

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

This option does not address 250.420.b(3). For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers must be modified prior to or during completion or abandonment operations.

30"x16"x10-3/4"x7" Sever 250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.		
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Plug (3) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	7" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (3) Cut and pull 7" & 10-3/4" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.	10-3/4" x 16" annulus (C annulus) and 7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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Plug (2) Perforate 7" casing, squeeze cement to B annulus BSSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.	7" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC
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Plug (1) Land tubing plug in X landing nipple, just above production packer. 128' ft above 8" gauge screen	L-sand perfs through 2-7/8" tubing	Allow for sufficient WOC time. Pressure test.
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Squeeze cement through L Sand Perforations	Isolation of L Sand Perfs	Allow for sufficient WOC time. Pressure test.
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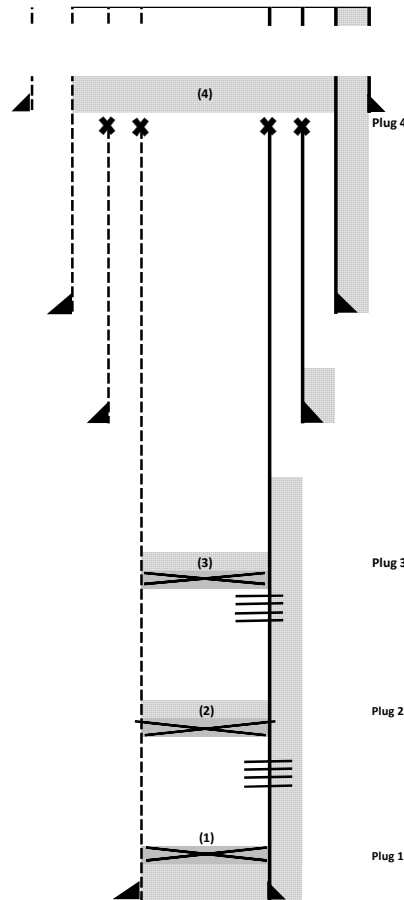
MD TVD

MD TVD

A-26 P&A Scenario option 1:

As built indicates there is no completion across M-1 sand perms.
 EOT is @~ 11970 ft MD.
 Cut 2-7/8" tubing above Hydrow 1 Packer @ 11950 ft MD.
 Pull tubing.
 Retrieve Hydrow 1 packer.
 Drill out cement and bridge plug @ 12180 ft MD.
 Set bridge plug @ PBTD 12383 ft MD.

Assumptions: See embedded Notes



WD	479
RKB	69
RKB to ML	548
Cut point 30"x16"x10- 3/4"x7"	563

30" shoe	908
Top of Plug	698
Bottom of plug	848
7" x 10-3/4" cut point	848

TOC (annulus)	548
16" shoe	1624

TOC (annulus)	3840
10-3/4" shoe	4340

TOC (annulus)	11572
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TOC (wellbore)	11972	
Bridge Plug	12022	
M-1 Sand Top Perf	12072	8319
M-1 Sand Base Perf	12084	8327

Cement above	12124
Bridge Plug	12174

N Sand Top	12194
N Sand Base	12278

PBTD/TOF	12383	
7" shoe/TD	12494	8589

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

<p>30"x16"x10-3/4"x7" Sever 250.1716-(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.</p>		
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<p>Plug (4) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</p>	N/A	
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<p>Plug (4) Cut and pull 7-5/8" & 10-3/4" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.</p>	<p>10-3/4" x 16" (C) annulus 7" x 10-3/4" (B)annulus</p>	<p>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</p>
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PLUG 4 IS A COMBINATION BARRIER FOR:
 250.1715.a.(8) A well with casing;
 AND
 250.1715.a (4) A casing stub where the stub end is within the casing
 AND
 250.1715.a(7) A subsea well with unsealed annulus

<p>Plug (3) BSSE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug</p>	Isolation of perforations	<p>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</p>
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<p>Plug (2) BSSE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug</p>	Isolation of perforations	<p>Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)</p>
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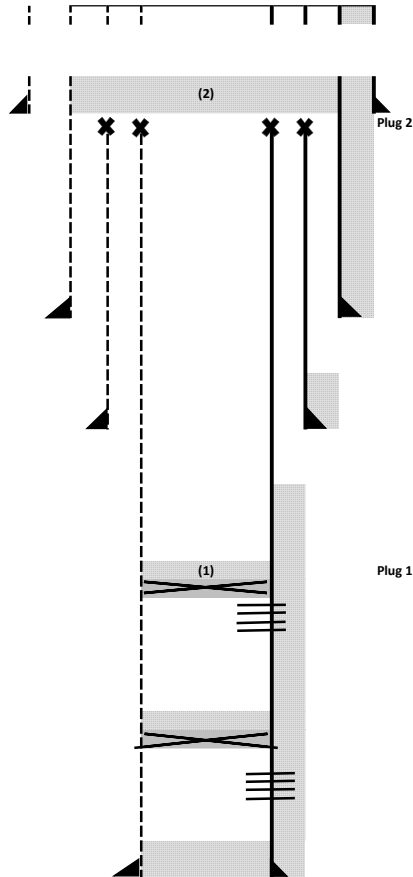
<p>Plug (1) BSSE: 250.420.b.(3) ...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations</p>	Possible failure of wellbore cement below float collar	<p>Test as per bridge plug service company recommendations</p>
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MD TVD

A-26 P&A Scenario option 2:

As built indicates there is no completion across M-1 sand perms.
 EOT is @~ 11970 ft MD.
 Cut 2-7/8" tubing above Hydrow 1 Packer @ 11950 ft MD.
 Pull tubing.
 Retrieve Hydrow 1 packer.

Assumptions: See embedded Notes



MD TVD

WD	479
RKB	69
RKB to ML	548
Cut point 30"x16"x10-3/4"x7"	563

30" shoe	908
Top of Plug	698
Bottom of plug	848
7" x 10-3/4" cut point	848

TOC (annulus)	548
16" shoe	1624

TOC (annulus)	3840
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10-3/4" shoe	4340
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TOC (annulus)	11572
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TOC (wellbore)	11972	
Bridge Plug	12022	
M-1 Sand Top Perf	12072	8319
M-1 Sand Base Perf	12084	8327

Cement above	12160
Bridge Plug	12180

N Sand Top	12194
N Sand Base	12278

PBTD/TOF	12383	
7" shoe/TD	12494	8589

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or

<p>30"x16"x10-3/4"x7" Sever 250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.</p>		
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<p>Plug (2) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</p>	N/A	
<p>Plug (2) Cut and pull 7-5/8" & 10-3/4" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing. (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.</p>	10-3/4" x 16" (C) annulus 7" x 10-3/4" (B)annulus	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

PLUG 2 IS A COMBINATION BARRIER FOR:
 250.1715 a.(8) A well with casing;
 AND
 250.1715 a (4) A casing stub where the stub end is within the casing
 AND
 250.1715.a(7) A subsea well with unsealed annulus

<p>Plug (1) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (iii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug</p>	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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<p>A-26 As Built well schematic indicates: 20ft of cement pumped on top of bridge plug.</p>		
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MC 20 Well A 027 Option 1

A-27 P&A:

The A-27 well was not abandoned as per all BSEE regulations. See below.
 The well was drilled to a TD of 13170 ft MD/9021 ft TVD and 7" production casing was never set.

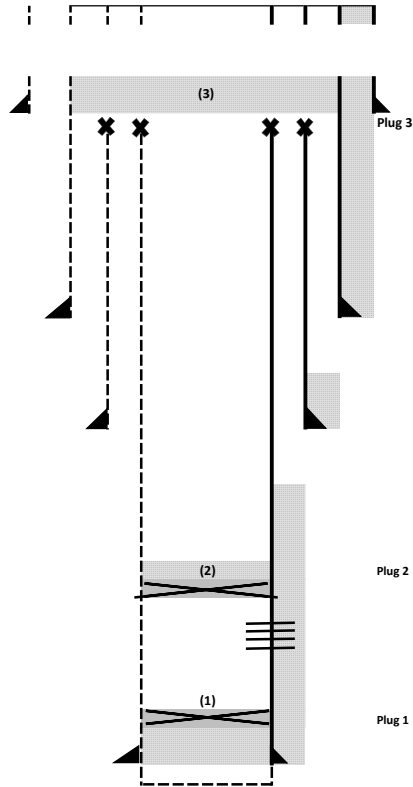
Requirement: BSSE	Addressed via:	Notes:
<p>250.1715 How must I permanently plug a well? (a)(2) Open hole below casing: You must... (iii) A bridge plug set 50 feet to 100 feet above the shoe with 50 feet of cement on top of the bridge plug, for expected or known lost circulation conditions</p>	<p>Cement retainer set in 10-3/4" casing @ 4317 ft MD ~93ft of cement pumped on top of bridge plug (see schematic for additional 4 balanced cement plugs set below the retainer)</p>	
<p>(8) A well with casing: You must... A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mud line.</p>	<p>150 ft balanced cement plug pumped in 10-3/4" casing (smallest casing string) @ ~118 ft to 268 ft BML</p>	
<p>250.1716.a. (a) Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.</p>	<p>This requirement has not been addressed</p>	<p>*According to A-27 As Built schematic, and operational steps, the casings were not removed.</p>

MD TVD

A-28 P&A Scenario option 1:

Cut 2-7/8" tubing above Quantum Packer @ 12900 ft MD.
 Pull tubing.
 Retrieve Quantum packer @ 12900 ft MD.
 Retrieve Quantum packer @ 13797 ft MD.
 Cut tubing above sump packer @ 13948 ft MD.
 Drill out sump packer.

Assumptions: See embedded Notes



MD TVD

WD	479
RKB	128
RKB to ML	607
Cut point 30"x16"x10-3/4"x7"	622

30" shoe	911
Top of Plug	757
Bottom of plug	907
7" x 10-3/4" cut point	907

TOC (annulus)	607
16" shoe	1628

TOC (annulus)	5493
10-3/4" shoe	5993

TOC (annulus)	13424
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Cement above	13824
Bridge Plug	13874

L-3 Sand Top	13924
L-3 Sand Base	13943

PBTD/TOF	14229
7-5/8" shoe	14320
TD	14325

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

<p>30"x16"x10-3/4"x7-5/8" Sever 250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.</p>		
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<p>Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</p>	N/A	
<p>Plug (3) Cut and pull 7-5/8" & 10-3/4" BSEE: 250.1715(a)(4) A casing stub where the stub end is within the casing. (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.</p>	10-3/4" x 16" (C) annulus 7-5/8" x 10-3/4" (B)annulus	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

PLUG 3 IS A COMBINATION BARRIER FOR:
 250.1715 a.(8) A well with casing;
 AND
 250.1715 a (4) A casing stub where the stub end is within the casing
 AND
 250.1715.a(7) A subsea well with unsealed annulus

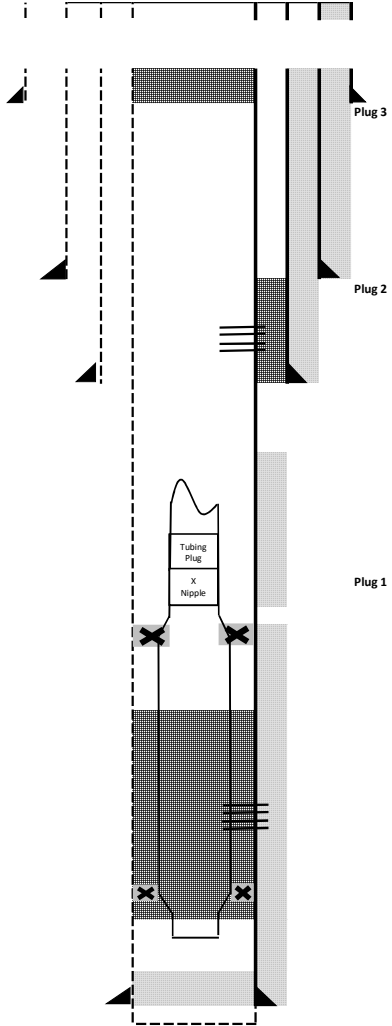
<p>Plug (2) BSEE: 250.1715(a)(3) A perforated zone that is currently open and not previously squeezed or isolated (ii) If perforated zones are isolated from the hole below, you may use plugs specified (B) A bridge plug set 50 to 100 ft above the top of the perforated interval and at least 50 feet of cement on top of the bridge plug</p>	Isolation of perforations	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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<p>Plug (1) BSEE: 250.420.b.(3) ...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or abandonment operations</p>	Possible failure of wellbore cement below float collar	Test as per bridge plug service company recommendations
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MD TVD

MD TVD

A-28 P&A Scenario option 2:
 Squeeze L-3 sand perfs.
 Install tubing plug in X landing nipple @ 13812 ft MD, 15 ft below packer.
 Cut and pull tubing above Quantum packer @ 12900 ft MD.
 Retrieve Quantum packer.
 Assumptions: See embedded Notes



WD	479
RKB	128
RKB to ML	607
Cut point 30"x16"x10- 3/4"x7"	622

30" shoe	911
Top of Plug	757
Bottom of plug	907

TOC (annulus)	607
16" shoe	1628

TOC (annulus)	5493
10-3/4" shoe	5993

TOC (annulus)	13424
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Top of 2-7/8" tubing ~	13807
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Tubing Plug X Landing Nipple	13812
X Landing Nipple	13812

Production packer	13797
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Top of screen	13918
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L-3 Sand Top Perf	13924	6397
L-3 Sand Base Perf	13943	6410

Sump Packer	13948
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P8TD/TOF	14229	
7-5/8" shoe	14320	
TD	14325	6703

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

This option does not consider 10-3/4" x 16" possible leak path.
 This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These barriers cannot be modified prior to or during completion or

250.1716.(a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line. Plug (3) BSEE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.	N/A	
	7-5/8" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)

Plug (2) Perforate 7" casing, squeeze cement to B annulus BSEE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 feet long set in the annular space.	7-5/8" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC
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Plug (1) Land tubing plug in X landing nipple, just above production packer . 106' ft above 8" gauge screen	L-3 sand perfs through 2-7/8" tubing	Allow for sufficient WOC time. Pressure test.
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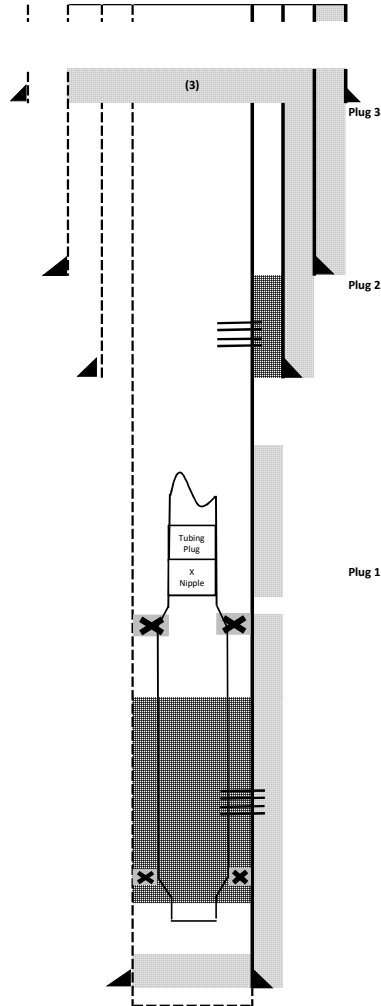
Squeeze cement through L-3 Sand Perforations	Isolation of L-3 Sand Perfs	Allow for sufficient WOC time. Pressure test.
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MD TVD

A-28 P&A Scenario option 3:

Squeeze L-3 sand perfs.
Install tubing plug in X landing nipple @ 13812 ft MD, 15 ft below packer.
Cut and pull tubing above Quantum packer @ 12900 ft MD.
Retrieve Quantum packer.

Assumptions: See embedded Notes



WD	479
RKB	128
RKB to ML	607
Cut point 30"x16"x10-3/4"x7"	622

30" shoe	911
Top of Plug	757
Bottom of plug	907
7" x 10-3/4" cut	907

TOC (annulus)	607
16" shoe	1628

TOC (annulus)	5493
10-3/4" shoe	5993

TOC (annulus)	13424
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Top of 2-7/8" tubing ~	13807
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Tubing Plug	13812
X Landing Nipple	13812

Production packer	13797
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Top of screen	13918
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L-3 Sand Top Perf	13924	6397
L-3 Sand Base Perf	13943	6410

Sump Packer	13948
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PBTD/TOF	14229	
7.5/8" shoe	14320	
TD	14325	6703

MD TVD

Requirement: BSSE

Leak Path Addressed

Testing/Verification Requirements

This option does not address 250.420.b(3)...For the final casing string (or liner if it is your final string), you must install one mechanical barrier in addition to cement to prevent flow in the event of a failure in the cement. A dual float valve, by itself, is not considered a mechanical barrier. These

<p>30"x16"x10-3/4"x7" Sever 250.1716. (a) To what depth must I remove wellheads and casings? Unless the District Manager approves an alternate depth under paragraph (b) of this section, you must remove all wellheads and casings to at least 15 feet below the mud line.</p>		
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<p>Plug (3) BSSE: 250.1715(a)(8) A well with casing: A cement surface plug at least 150 feet long set in the smallest casing that extends to the mud line with the top of the plug no more than 150 feet below the mudline.</p>	7-5/8" Wellbore	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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<p>Plug (3) Cut and pull 7-5/8" & 10-3/4" BSSE: 250.1715(a)(4) A casing stub where the stub end is within the casing (iii) A cement plug at least 200 feet long with the bottom of the plug set no more than 100 feet above the stub end.</p>	10-3/4" x 16" annulus (C annulus) and 7-5/8" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC, tag up with agreed upon weight. Pressure test. All cement jobs must be designed to abide by regulation 250.420.c.(1) and (2)
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<p>Plug (2) Perforate 7" casing, squeeze cement to B annulus BSSE: 250.1715(a)(6) An annular space that communicates with open hole and extends to the mudline: A cement plug at least 200 ft long set in the annular space.</p>	7-5/8" x 10-3/4" annulus (B annulus)	Allow for sufficient WOC
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<p>Plug (1) Land tubing plug in X landing nipple, just above production packer. .106' ft above 8" gauge screen</p>	L-3 sand perfs through 2-7/8" tubing	Allow for sufficient WOC time. Pressure test.
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Squeeze cement through L-3 Sand Perforations	Isolation of L-3 Sand Perfs	Allow for sufficient WOC time. Pressure test.
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