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Please read this entire page. It concerns all 7%" & 9%" Vented Thru-tubing Bridge Plugs

Read this page before proceeding to NeoProducts' Recommended Best Practices for 7%" & 95%" T-TBPs.

Whenever running a 75% or 95% Neo vented metal petal thru-tubing bridge plug (NeoT-TBP) it is essential that WL operators be aware of the following:

Whenever running a 7%" or 9%" Neo vented T-TBP at service temperatures below 235° F, the metal petal basket can be destroyed if two much cmt slurry weight is placed atop the basket. The following operations are recommended when service temperatures are below 275° F.

When plugging-back in 7%" or 9%" csg using a vented T-TBP and WL dump bailing operations, the first dumped batch of cmt slurry must protect the metal petal basket. It must develop strength and bond to the csg before a second cmt slurry batch can be placed atop the first cmt slurry batch. It is mandatory that the first cmt dump run must be set and capable of supporting the weight of subsequent cmt slurry dump runs.

- 1. The 1st dump run should be 1-2 gallons of ceramic bridging aggregate or 20/40 mesh sand. Dump the aggregate/sand from 5 10 ft above the top on the vented T-TBP.
- Locate the bottom of the cmt slurry bailer 3 ft above the metal petal basket and dump 3-5 gallons of 17 ppg NeoSuperSlurry atop the aggregate/sand,
- 3. If you do not accelerate the strength development and bonding of your cmt slurry to csg you must wait on cement <u>before GIH with a 2nd NeoSuperSlurry cmt dump run</u> as follows:
 - a. WOC 5 hrs if the temp at the basket is above 275° F, or
 - b. WOC 6 hrs if the temp at the basket is between 251°-275° F, or
 - c. WOC 7 hrs if the temp at the basket is between 226°-250° F, or
 - d. WOC 8 hrs if the temp at the basket is between 215°-225° F, or
 - e. WOC 9 hrs if the temp at the basket is between 201°-214° F, or
 - f. WOC 10 hrs if the temp at the basket is between 176°-200° F, or
 - g. WOC 15 hrs if the temp at the basket is between 161°-175° F, or
 - h. WOC 20 hrs if the temp at the basket is between 70°-160° F.

NeoProducts recommends that WL companies always load out with multiple Neo Accelerator Modifier Packs (P/N 0101-225-017) whenever dumping cmt slurry at service temperatures below 225° F.

- 4. If you accelerate the strength development of your cmt slurry, Neo Accelerator Modifier Packs can reduce WOC times by ~2-6 hrs, for example:
 - i. WOC 6 hrs if the temp at the basket is between 215°-225° F, or
 - ii. WOC 7 hrs if the temp at the basket is between 200°-214° F, or
 - iii. WOC 8 hrs if the temp at the basket is between 175°-199° F, or
 - iv. WOC 10 hrs if the temp at the basket is between 161°-174° F. or
 - v. WOC 12 hrs if the temp at the basket is between 150°-160° F, or
 - vi. WOC 15 hrs if the temp at the basket is between 70°-149° F.



Non-Explosive Deploye	d <mark>Neo</mark> T-TBF
Run-In Procedures with	NeoRT

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Contact NeoProducts for more details on the subject matter above.

Non-explosive Deployed NeoThru-TubingBridgePlug (NeoT-TBP) with the use of the NeoReleaseTool (NeoRT) Run-In Procedures

Document # DRI-0163-0000NE

GENERAL RECOMMENDED PLUG-BACK OPERATIONS

Recommended Operations to Maintain Static Wellbore Conditions

The operations below were strictly followed for many decades of high success rate Thru-tubing Plug-back Operations. Many WL operators are unaware of or have chosen to not perform these critical operations.

Maintaining static wellbore conditions during Thru-Tubing Plug-back Operations is critical.

These are recommended procedures that will maintain a relatively static shut-in tubing pressure (SITP) and overall wellbore pressure when making multiple wireline (WL) & Slickline (SL) runs in and out of the well

- 1. Perform the lubricator pressure test using the appropriate water solution e.g., fresh water, brackish water, or weighted brine.
 - a. Use a 25% glycol/water solution if there is gas below the Master Valve (MV).
 - b. The pressure test should be at least 250 psi above the SITP.
- 2. Once the lubricator pressure test is finished, reduce the lubricator pressure to be 50-100 psig above the SITP.
- 3. Slowly crack open the MV and allow pressure equalization. Record the lubricator/wellhead SITP.
- 4. Descend into the well.
- 5. Monitor, record and adjust the wellhead pressure throughout descent and ascent operations. This must be done during every RIH until the plug is pressure tested.
 - a. Record the SITP before and after opening the MV on every RIH. Call this the recent SITP.
 - b. Maintain a constant wellhead pressure equal to the recent SITP ± 50 psig for that RIH.
 - i. Wellhead pressure can increase due to descending line displacement while RIH, bleed off wellhead pressure at the surface to maintain recent SITP \pm 50 psig,
 - ii. Wellhead pressure can decrease due to ascending line displacement while coming out of the hole (COOH). Pump 25% glycol water solution into the wellhead to maintain the recent SITP \pm 50 psig,
- 6. Perform a pressure test when and as instructed.

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Non-Explosive Deployed NeoT-TBP Run-In Procedures with NeoRT

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Due Diligence

Thru-tubing plug-back operations can have a high success rate if the following principals are practiced:

- Read these recommended procedures prior to handling and running the plug.
- Use NeoSuperSlurry Cement Kits to achieve the desired long-term hydraulic isolation in the wellbore.
- If the plug is to be run in a sour/corrosive environment, special preparations and/or a specially designed plug may be necessary. Contact NeoProducts for more details.
- Set the plug at the desired depth.
- <u>Locate the bottom of the first bailer run approximately 5 ft above the top of the plug and dump 1-2 gallons of ceramic aggregate from that location.</u>
- Locate the bottom of the 2nd bailer run approximately 3 4 ft above the bailer stop and dump 3 5 gallons of cmt slurry atop the ceramic aggregate.
- WOC until the slurry is set (approximately 5 6 hrs) before dumping the second run of cement slurry. For 7-5/8" & 9-5/8" NeoT-TBPs, please refer to the first page or also Appendix A at the end of this document for special notes on dumping cement atop the 7-5/8" or 9-5/8" NeoT-TBP.
- Locate the bottom of the 3rd bailer run approximately 1-2 ft above the previously dumped cement and dump 4-5 gallons of cmt slurry.
- WOC an additional 3 hrs before GIH to make the remaining dump runs for the desired overall cmt plug length. This will allow the cement slurry to support all subsequent runs of cement.
- There is no sliding vent port that needs to get closed on the NeoT-TBPs, not including the 9-5/8" NeoT-TBPs. The 9-5/8" NeoT-TBPs do have the sliding vent port that does need to get closed.
- Wait a minimum of 18-24 hours after the last dump bailer run <u>before pressure testing the cement plug.</u>

The following well information and contingency preparations should be reviewed and recorded. Fill in the information below before running the **Neo**T-TBP in the well. Determine the following depths and write them in their space below;

a. the depth from the bottom of the plug to the top of the nearest perforations below the set plug _____.

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b.	the approximate depth from the CCL on the toolstring to the nearest casing collar below
	the CCL
C.	the approximate depth from the bottom of the plug to the next casing collar below the
	plug
d.	the approximate depth from the top of the plug to the bottom of the nearest existing
	perforations above the plug
e.	the approximate depth from the top of the plug to the bottom of the future nearest
	perforations above the plug .

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CAUTION

If mishandled the **Neo**T-TBP could prematurely eject and cause serious personal injury. Never stand in line with the long axis of the setting sleeve when loaded with a plug. ALWAYS HANDLE **Neo**T-TBPs WITH CAUTION.

Preparing the NeoReleaseTool:

1. Locate the NeoReleaseTool and place it on a clean, flat surface in order to prep the tool [see Figure 1].



Figure 1: NeoReleaseTool Ready to be Prepped for Service

2. Locate the #2 Parker Plug at the top of the NeoReleaseTool and remove the #2 Parker Plug as shown below in Figure 2.



Figure 2: Removal of #2 Parker Plug

3. Locate the pipe plug near the center of the NeoReleaseTool and remove the pipe plug as shown below in Figure 3.

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Figure 3: Removal of Pipe Plug

4. Insert a pump-in fixture into the bronze tandem sub where the pipe plug was removed in step 3 [see Figure 4].



Figure 4: Pump-in Fixture threaded onto Tandem Sub

5. Connect the Enerpac Pump to the pump-in fixture with use of the quick connect. With the tool in the vertical position, slowly pump hydraulic fluid into the NeoReleaseTool. Pump until you see the hydraulic

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fluid flowing out of the hole at the top of the NeoReleaseTool where the #2 Parker Plug used to be. [see Figure 5].

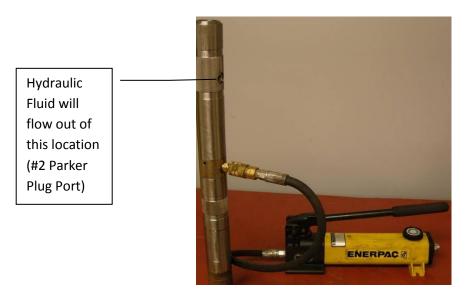


Figure 5: Enerpac Hydraulic Pump Connected to the Pump-in Fixture

- 6. Once the hydraulic fluid is flowing out of the #2 Parker Plug port, thread the #2 Parker Plug back into the NeoReleaseTool.
- 7. Flip the tool upside down and continue pumping hydraulic fluid until the fluid begins to weep out of the two small weep holes shown below in Figure 8. At this point, test fire the NeoReleaseTool by applying 300-350 mA to the tool for 3 seconds.
- 8. Locate the bottom of the NeoReleaseTool and attach it to the top of the Non-Explosive Neo Thru-Tubing Bridge Plug shown in Figure 6.

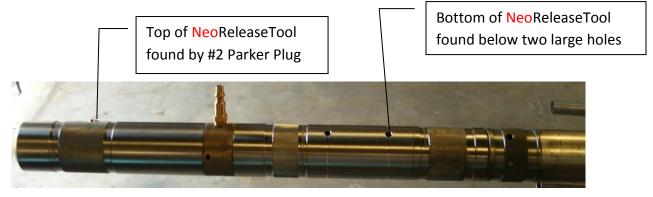


Figure 6: NeoReleaseTool Attached to Non-Explosive Neo Thru-Tubing Bridge Plug

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9. Connect the Enerpac hydraulic pump to the pump-in fixture and begin slowly pumping hydraulic fluid into the NeoRelaseTool shown in Figure 7.



Figure 7: Enerpac Hydraulic Pump Connected to the Pump-in Fixture

10. Pump the hydraulic fluid until the fluid begins to weep out of the two small weep holes shown below in Figure 8. (Note: the large holes also shown in the figure below are not the weep holes. The small weep holes are located above these large holes)

Small weep holes located just below Part Number and above the large holes



Figure 8: Small Weep Holes

11. Once the hydraulic fluid has wept from the two weep holes, the NeoReleaseTool is now holding the plug in place and the pin can be removed from the Non-explosive Neo Thru-Tubing Bridge Plug.

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12. Locate the pin on the Non-Explosive Neo Thru-Tubing Bridge Plug (found near the connection of the NeoReleaseTool to the NeoT-TBP) and tap the pin out with a hammer shown below in Figures 9 and 10.



Figure 9: Tapping out Pin on Non-Explosive Neo Thru-Tubing Bridge Plug



Figure 10: Tapping out Pin on Non-Explosive Neo Thru-Tubing Bridge Plug

13. Remove the Pump-In Fixture from Figure 4 and insert the pipe plug.

The **Neo**RT and non-explosive deployed **Neo**T-TBP are now ready to be run in the hole. Make up the **Neo**RT & **Neo**T-TBP to the CCL.

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Non-Explosive Deployed Nec	T-TBP
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Please confirm that the NeoT-TBP you are using is the correct size for your casing size. There is a label on the PVC tube that the NeoT-TBP is shipped in that shows the size and serial number of the NeoT-TBP.

The NeoT-TBP comes shipped as a vented plug. If you would like to make your NeoT-TBP a non-vented plug, simply thread the 1/4" NPT Pipe Plug that is supplied with your NeoT-TBP into the thread found on the bottom of the plug on the bull nose.

The following recommendations will help to achieve a successful plug-back. Although some of these recommendations might not be feasible, it is important that the Project Engineer be aware of their importance.

- a. If the well has a column of fluid to the surface and a positive shut-in tubing pressure, monitor and record the SITP before opening the Tree Master Valve prior to every run in the well. Successful plug-back projects require stable pressure maintenance at the plug setting depth throughout the plug-back project.
- b. Wells with a gas cap are much less sensitive to pressure maintenance during plug-back operations. A positive shut-in tubing pressure with a gas cap is common and not a serious concern.
- c. Determine if one of the following deleterious elements is present at the plug setting depth:

- oil - natural gas - scale

- condensate - paraffin - salt deposits

Contact NeoProducts for consultation if any one of these damaging elements is present near the plug setting depth. Their presence can reduce or eliminate the bond between cement and casing. Oil and condensate will retard cement to the point where it takes weeks to set. When oil and/or condensate is present at the plug setting depth, dump 10 ppg NeoCasingCleaner to displace the hydrocarbon and remove the oil coating from the csg.

- d. If the well is on gas lift, bleed all pressure off the casing and tubing. If possible, pump brine into the well. Allow the well to stabilize for at least 24 hours prior to running the plug.
- e. Generally, it takes days for a wellbore to achieve pseudo-equilibrium. Fluid entering the wellbore and gas "percolating" into the wellbore can induce channels in a cement plug. Therefore, shut the well in and allow it to stabilize for at least 24 hours prior to running the plug. This will help to minimize the fluid and gas movement during plug-back operations.
- f. Run a stiff full length drift down to the plug setting depth. The drift should have the same run-in diameter and length as the dump bailer tool string.

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RECOMMENDED PLUG-BACK OPERATIONS

KEEP THE SITP PRESSURE STATIC THROUGHOUT THE ENTIRE PLUG-BACK PROJECT

- 1. Inspect the wellhead upon arrival at the wellsite. Record the SITP. Pressure up the lubricator using brine or glycol/water to the SIP prior to opening the swab valve on every run throughout the entire plug-back project. Do this on every run.
- 2. Make a dummy gauge run. Include thermometers to measure the temperature at plug setting depth. Identify and record the top of fluid level. POOH.

CAUTION

The NeoT-TBP is spring loaded in the setting sleeve. IF MISHANDLED, THE PLUG COULD PREMATURELY EJECT AND CAUSE SERIOUS INJURY. Never stand in-line with the setting sleeve when loaded with a plug.

ALWAYS HANDLE NeoT-TBPs WITH CAUTION

- 3. Whenever the well deviation at the plug setting depth is greater than 30° run one or two bow spring centralizers at the bottom of the Neo T-TBP Setting Sleeve.
- 4. Regardless of deviation always run one or two bow spring centralizers and a minimum of 150 pounds of weight bars above 7-5/8" and 9-5/8" Neo T-TBPs.
- 5. Run the NeoReleaseTool and NeoT-TBP in the hole. Once you are at depth, locate the **Neo**T-TBP below the setting depth and slowly pull up, then;
 - a. Locate the bottom end of the NeoT-TBP at the depth that is one foot below the location where you want the cmt plug to begin,
 - b. Send dc power down the line, slowly increase the current to 450-500 milliamps, hold for 3-4 seconds, remove power, wait 30 seconds.
 - c. Repeat step b two more times (wait 30 seconds between repeats),

Note: Increased wireline length will affect line resistance. Additional voltage may need to be applied at surface to reach desired voltage at the tool head.

d. The bottom end of the plug will extend one foot out the end of the Setting Sleeve. The top of the metal-pedal platform is now located at the point where you want the cmt plug to begin,

e. Slowly pull up the toolstring 20' and stop,

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- f. The end of the setting sleeve is now above the **Neo**BailerStop,
- g. Slowly descend onto the **Neo**BailerStop, (If setting a 7-5/8" or 9-5/8" **Neo**T-TBP, do not descend onto the **Neo**BailerStop at this step. Continue pulling up the toolstring to surface)
- h. For all plug sizes except for the 7-5/8" and 9-5/8" NeoT-TBP, slack off 50-100 pounds onto the NeoBailerStop, you have now verified that the plug has been deployed and is in place,
- i. Pick up to pick-up wgt, log off and determine/confirm the depth of the NeoBailerStop, the bottom of the cmt plug will be 1' 2' below the NeoBailerStop.
- i. POOH
- k. Skip to Step #7 if all of these steps were completed successfully.
- 6. For all plug sizes except for the 7-5/8" and 9-5/8" NeoT-TBP, if you were not able to slack off onto the NeoBailerStop and your NeoT-TBP has not been properly ejected, refer back to your previously recorded distances to know where the closest set of perforations below you are located.
 - a. Continue lowering the NeoT-TBP until you have reached the perforations and the plug's lower anchors are able to catch onto the perforations,
 - b. Slowly pull up the toolstring 20' and stop,
 - c. The end of the setting sleeve is now above the NeoBailerStop,
 - d. Slowly descend onto the NeoBailerStop,
 - e. Slack off 50-100 pounds onto the **Neo**BailerStop, you have now verified that the plug has been deployed and is in place in the perforations,
 - f. Pick up to pick-up wgt, log off and determine/confirm the depth of the NeoBailerStop, the bottom of the cmt plug would be 1' 2' below the NeoBailerStop. POOH

Do not slack off weight again throughout the remainder of the project.

7. Make up the dump bailer system to dump bridging material. Strap the entire CCL/bailer assembly to be certain that you can accurately locate the bottom of the bailer approximately 10 feet above the top of the plug. GIH with enough bridging material to fill 1 - 2 feet of casing volume. (If dumping bridging material on a 7-5/8" or 9-5/8" NeoT-TBP, dump 1-2 gallons of bridging material onto the basket) Locate the bailer 10 feet above the top of the plug and dump the bridging material. POOH.

NOTE: Review the dimensional details of the plug in Table 1 and the casing. Verify that the bailer can be placed in the annular gap between the plug and the ID of the casing. If it cannot, cement and bridging material should be dumped within 1-2 feet above the top of the plug.

The OD of the bailer must be less than ½ X (Csg ID minus 1.38")

8. Make up the dump bailer to dump the cement slurry. The bailer diameter should not be less than

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- 1.69" (4.3cm). Strap the entire CCL/bailer assembly.
 - a. Fill the bailer with **Neo**SuperSlurry, a 17 ppg expanding High Shear Bond cement slurry, and GIH,
 - b. Reduce the rate of descent to 15 fpm (9,000 fph) once the bottom of the bailer is with 50 feet of the Vent Valve,
 - c. Descend until the bailer is 1'-2' above the NeoBailerStop, see Table 1.
 - d. Dump the slurry,
 - e. Wait 2 minutes, pick up 3 feet. Wait 2 minutes, then
 - f. POOH.

WOC until the slurry is set (approximately 5 - 6 hrs) before dumping the second run of cement slurry.

REFER TO <u>APPENDIX A</u> FOR SPECIAL NOTES ON DUMPING CEMENT ATOP THE 7-5/8" or 9-5/8" NeoT-TBP.

For 7-5/8" and 9-5/8" NeoT-TBPs, once this initial slurry is set, proceed to tagging the plug by slowly descending onto the bailer stop or cement slurry. Slack off 50 pounds to ensure that the plug is at the desired location.

- 9. Redress the dump bailer.
 - a. Fill the bailer with NeoSuperSlurry, and GIH.
 - b. Reduce the rate of descent to 15 fpm (9,000 fph) once the bottom of the bailer is with 30 feet of the Vent Valve.
 - c. Descend until the bailer bottom is 1-2 feet above the top of cmt,
 - d. Dump the slurry.
 - e. Wait 2 minutes, pick up 5 feet, wait 2 minutes, then
 - f. POOH.
- 10. For vented NeoT-TBPs, repeat bailer runs until the cmt is within 12 inches to 18 inches of the vent valve. For non-vented NeoT-TBPs, there is no need to worry about the vent port and you can continue dumping cement
- 11. For vented NeoT-TBPs, the initial cmt plug is now in place. Wait at least 8 hours after the last dump bailer run before dumping the remaining recommended cement slurry.
- 12. Make up the dump bailer system needed to dump the remainder of the cement plug.
- 13. Fill the bailer with cmt. GIH, locate the bottom of the bailer 1-3 feet above the top of cmt. Dump the slurry. Dump as much NeoSuperSlurry as needed to achieve the desired plug length.
- 14. <u>Maintain static well conditions in the well. Wait at least 18-24 hours after the last bailer run before producing the well or performing a pressure test.</u>

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Non-Explosive Deployed NeoT-TBP Run-In Procedures with NeoRT

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Appendix A:

Please read this entire page. It concerns all 7%" & 9%" Vented Thru-tubing Bridge Plugs

Whenever running a 7%" or 9%" Neo vented metal petal thru-tubing bridge plug (NeoT-TBP) it is essential that WL operators be aware of the following:

Whenever running a 7%" or 9%" **Neo** vented T-TBP at service temperatures below 235° F, the metal petal basket can be destroyed if two much cmt slurry weight is placed atop the basket. The following operations are recommended when service temperatures are below 275° F.

When plugging-back in 7%" or 9%" csg using a vented T-TBP and WL dump bailing operations, the first dumped batch of cmt slurry must protect the metal petal basket. It must develop strength and bond to the csg before a second cmt slurry batch can be placed atop the first cmt slurry batch. It is mandatory that the first cmt dump run must be set and capable of supporting the weight of subsequent cmt slurry dump runs.

- 1. The 1st dump run should be 1-2 gallons of ceramic bridging aggregate or 20/40 mesh sand. Dump the aggregate/sand from 5 10 ft above the top on the vented T-TBP.
- 2. Locate the bottom of the cmt slurry bailer 3 ft above the metal petal basket and dump 3-5 gallons of 17 ppg NeoSuperSlurry atop the aggregate/sand,
- 3. If you do not accelerate the strength development and bonding of your cmt slurry to csg you must wait on cement <u>before GIH with a 2nd NeoSuperSlurry cmt dump run</u> as follows:
 - a. WOC 5 hrs if the temp at the basket is above 275° F, or
 - b. WOC 6 hrs if the temp at the basket is between 251°-275° F, or
 - c. WOC 7 hrs if the temp at the basket is between 226°-250° F, or
 - d. WOC 8 hrs if the temp at the basket is between 215°-225° F, or
 - e. WOC 9 hrs if the temp at the basket is between 201°-214° F, or
 - f. WOC 10 hrs if the temp at the basket is between 176°-200° F, or
 - g. WOC 15 hrs if the temp at the basket is between 161°-175° F, or
 - h. WOC 20 hrs if the temp at the basket is between 70°-160° F.

NeoProducts recommends that WL companies always load out with multiple Neo Accelerator Modifier Packs (P/N 0101-225-017) whenever dumping cmt slurry at service temperatures below 225° F.

- 4. If you accelerate the strength development of your cmt slurry, Neo Accelerator Modifier Packs can reduce WOC times by ~2-6 hrs, for example:
 - vii. WOC 6 hrs if the temp at the basket is between 215°-225° F, or
 - viii. WOC 7 hrs if the temp at the basket is between 200°-214° F, or
 - ix. WOC 8 hrs if the temp at the basket is between 175°-199° F, or
 - x. WOC 10 hrs if the temp at the basket is between 161°-174° F, or
 - xi. WOC 12 hrs if the temp at the basket is between 150°-160° F, or
 - xii. WOC 15 hrs if the temp at the basket is between 70°-149° F.

Contact NeoProducts for more details on the subject matter above.



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Run-In Procedures with NeoRT	

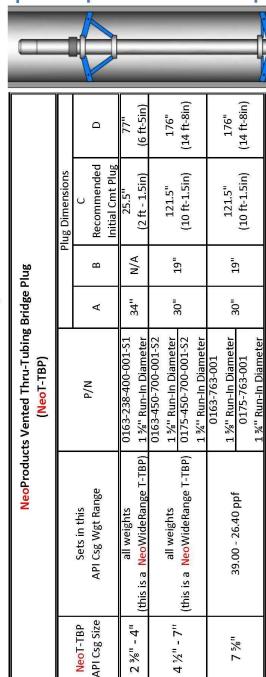
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NeoT-TBP Dimensions (Vented & Non-Vented*

Recommended

Cement Plug TOC Initial



want the bottom of your cmt plug. Fire the release tool and the top of the Metal-Petal-Platform will be at the desired depth. The top of sleeve. In order to accurately place the Metal-Petal-Platform you must position the bottom of the plug 1 ft below the depth where you The NeoT-TBP is placed in a spring loaded Setting Sleeve. When the plug is deployed it slides 12" - 18" out the bottom of the Setting he Metal-Petal-Platform establishes the bottom of the cmt plug.

Where to Position the NeoT-TBP to Accurately Place the Bottom of the Initial Cmt Plug

Top of Metal

Petal Platform

** NeoProducts makes custom length and custom casing diameter NeoT-TBPs (contact NeoProducts for more information)

* Non-vented NeoT-TBPs have the same dimensions as the Vented NeoT-TBPs shown above, and they are available off the shelf

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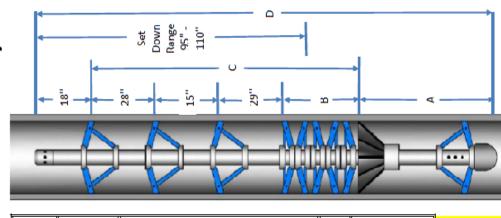


Non-Explosive Deployed NeoT-TBP Run-In Procedures with NeoRT

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9-%" NeoT-TBP Dimensions (Vented & Non-Vented*)

Neo Products Vented Thru-Tubing Bridge Plug (NeoT-TBP)



_	_		_				
_							
		۵			180" (15 ft)		
	Plug Dimensions	C Recommended	Initial Cmt Plug		**** 18" (1 ft-6 in)		tial Cmt Plug
	_	8			55"		of the Ini
		۷			35.75"		Bottom
		N/d		0200-963-001 2" Run-in Diameter	0213-963-001 2 %" Run-In Diameter	0225 963 001 2 ¼" Run-In Diameter	BP to Accurately Place the
		Sets in this API Csg Wgt Range			53.50 - 36.00 ppt		Where to Position the NeoT-TBP to Accurately Place the Bottom of the Initial Cmt Plug
		leoT TBP			%6		

ileeve, in order to accurately place the Metal-Petal-Platform you must position the bottom of the plug 1 it below the depth where you want the bottom of your cmt plug. Fire the release tool and the top of the Metal Petal Platform will be at the desired depth. The top of he Metal-Petal-Platform establishes the bottom of the omt plug,

he NeoT-TBP is placed in a spring loaded Setting Sleeve. When the plug is deployed it slides 12" - 18" out the bottom of the Setting

Non-vented NeoT-TBPs have the same dimensions as the Vented NeoT-TBPs shown above, and they are available off the shelf

** NeoProducts makes custom length and custom casing diameter NeoT-TBPs (contact NeoProducts for more information)

*** 9-5/8" NeoT-TBPs will have the Sliding Vent System (no Tortuous Path). The sliding vent is located ~ 1" above Dimension C. **** There should only be approxximately 4.5-6 gallons of initial cement placed atop the basket. This cement must cure before

adding any additional cement weight on the plug. See special 9-5/8" notes from NeoProducts.

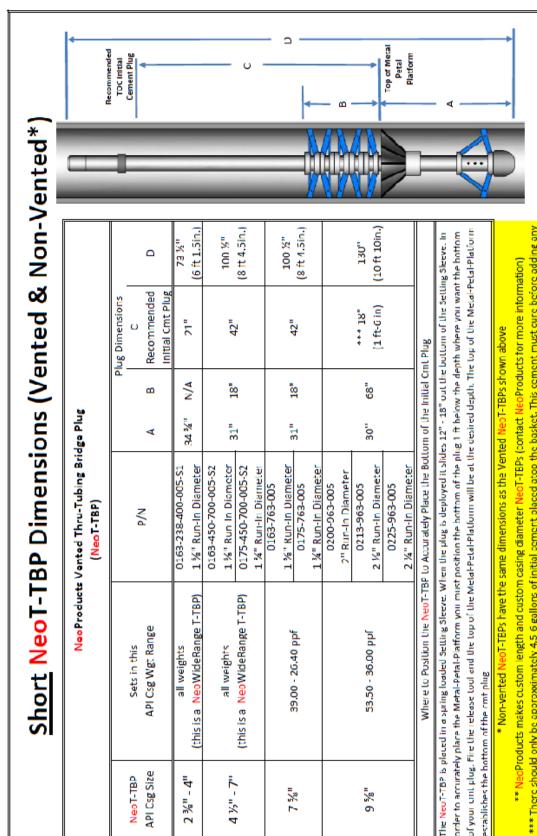
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Non-Explosive Deployed NeoT-TBP Run-In Procedures with NeoRT

API Csg 9 NeoT T

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				₫.	Plug Dimensions	
NeoT-TBP	Sets in this	N/ 8			O	
API Csg Size	API Csg Wgt Range		٧	8	Recommended	٥
					Initial Cmt Plug	
11/11/20	all weights	0163-238-400-005-51	343/11	1/14	1111	73 1/4
78 - 4	(this is a NeoWideRange T-TBP)	1 %" Run-In Diameter		N/A	71	(6 ft 1.5
		0163-450-700-005-S2				
11/2 11/21 V	all weights	1 %" Run In Diameter	1110	101	"42"	100 %
	(this is a NeoWideRange T-TBP)	0175-450-700-005-52	10	97	7	(8 ft 4.5
		1 ¼" Run-In Diameter				
		0163-763-005				
1 5/11	30.00.00.00.00	1 %" Kun-In Diameter	= 10	101	1101	100 ½
20	33.00 - 20.40 ppr	0175-763-005		10	74	(8 ft 1.5
		1 ¾" Run-In Diameter				
		0200-963-005				
		7" Run-In Diameter				
		0213-963-005			*** 18"	130"
9 78	ldd 00.08 - 0c.86	2 1/8" Run-In Dismeter	30	8	(1 ft-G in)	(10 ft 10
		0225-963-005				
		2 ¼" Run-In Diameter				
	Where to Position the NeoT-TBP to Accurately Place the Bottom of the Initial Cmt Plug	P to Accurately Place the Botto	orn of the Ir	illial Cr	nt Plug	

T-TBPs have the same dimensions as the Vented NeoT-TBPs shown above * Non-vented Neo

*** There should only be approxximately 4.5 6 gallons of initial cement placed atop the basket. This cement must cure before adding any ** NeoProducts makes custom length and custom casing diameter NeoT-TBPs (contact NeoProducts for more information) additional cement weight on the plug. See special 9-5/8" notes from NeoProducts

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Neo Products Vented Thru-Tubing Bridge Plug (NeoT-TBP)

Non-Explosive Deployed NeoT-TBP

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establishes the bottom of the smt plug