



Genuine
Geoprobe®



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Geoprobe®

Geoprobe[®] Macro-Core[®] MC5



Geoprobe[®] Macro-Core[®] MC5

Geoprobe[®] DT22 Dual Tube



Geoprobe[®] Macro-Core[®] MC5

Geoprobe[®] DT22 Dual Tube

A Comparison



Genuine
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Geoprobe® Macro-Core® MC5

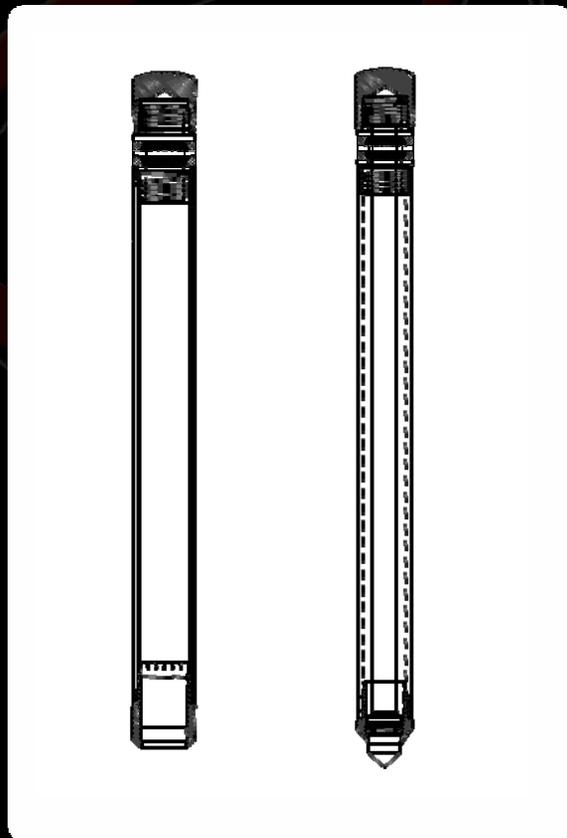
&

Geoprobe® Standard Macro-Core®

MC5 and Standard Macro-Core[®]

Before we compare the Macro-Core[®] with the DT22 Dual Tube, let's first look at the difference between the MC5 and Standard Macro-Core[®].

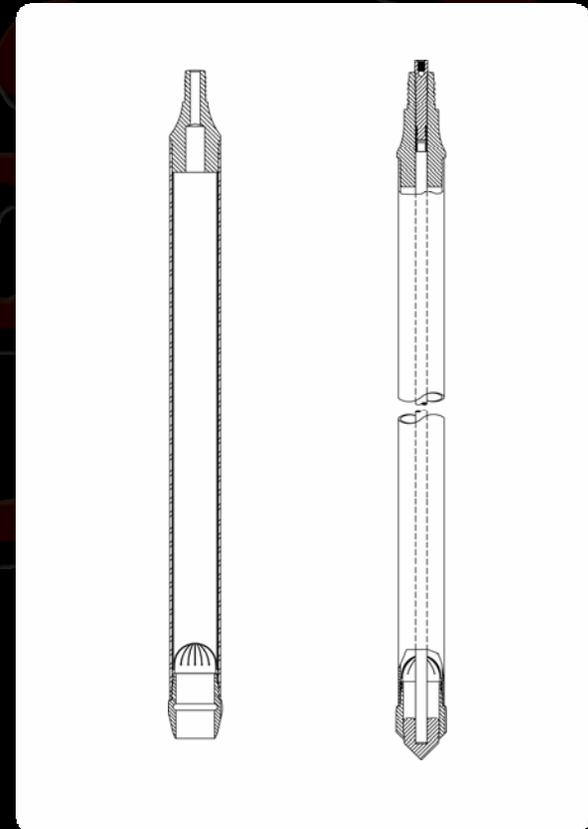
MC5 and Standard Macro-Core[®]



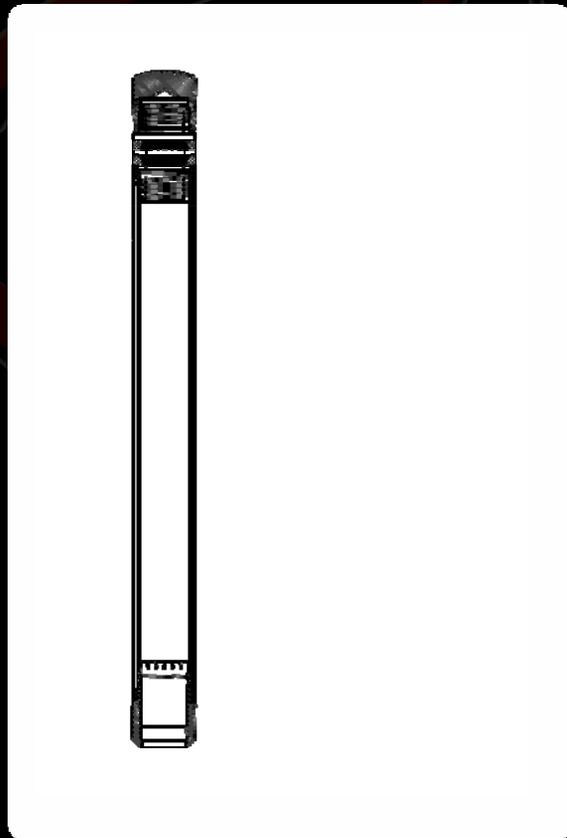
MC5



Standard



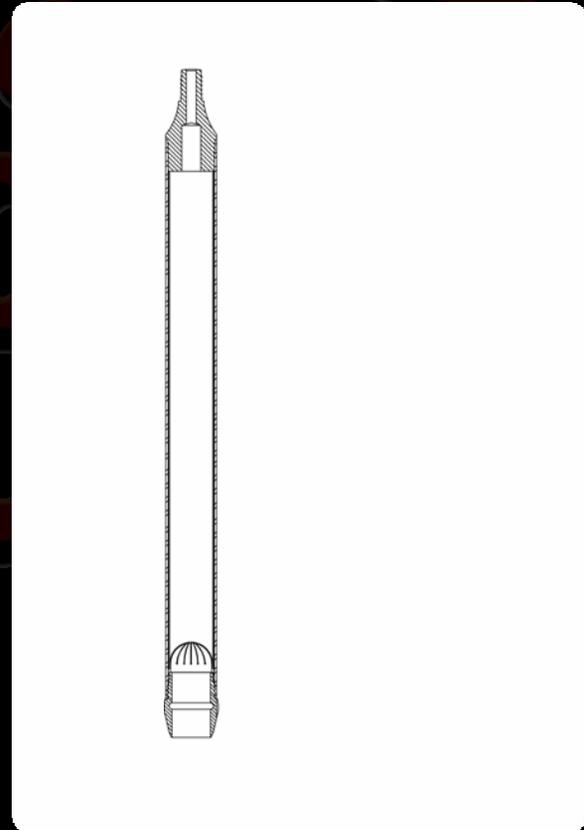
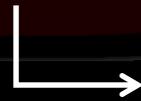
Both can be run as an open sampler



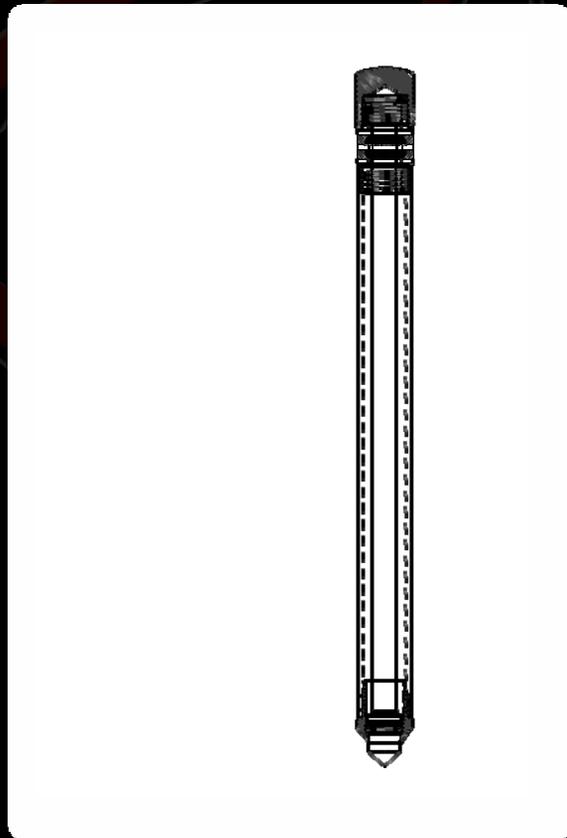
MC5



Standard



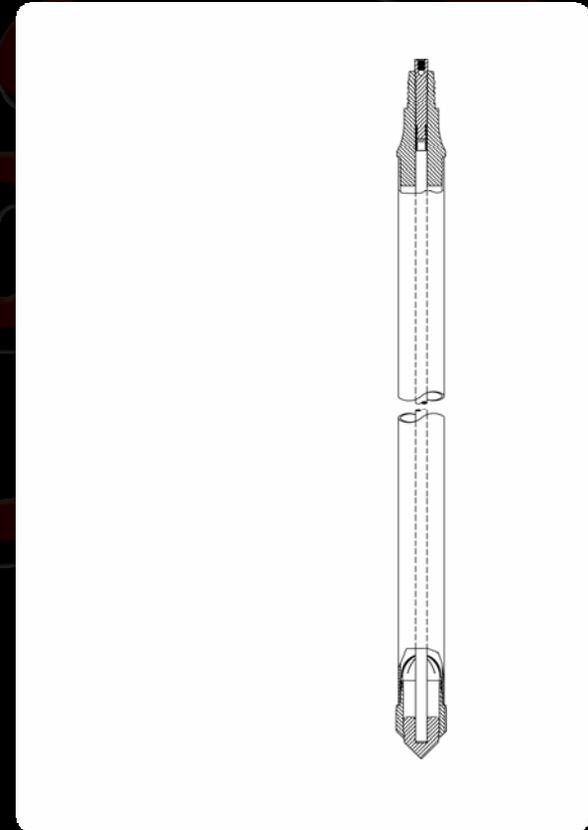
Both can be run closed to insure that you are not sampling slough.



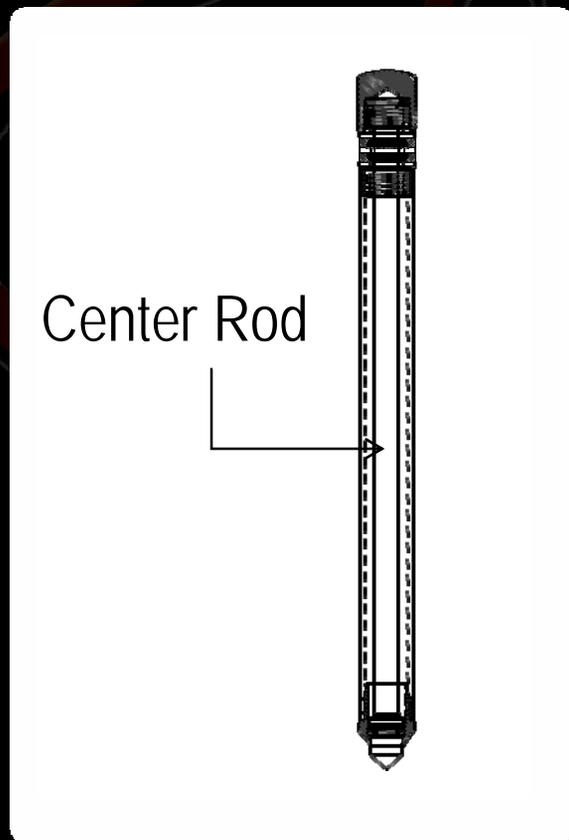
MC5



Standard

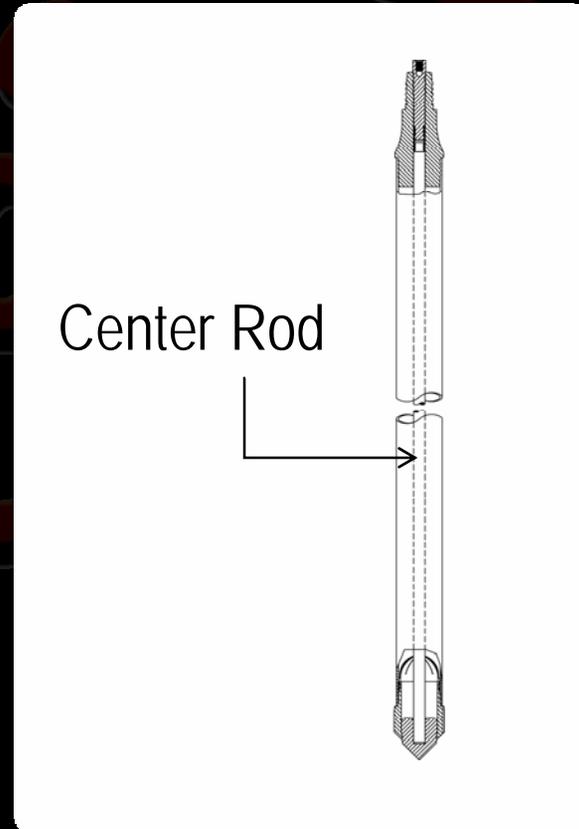


The center rod holds the point in place

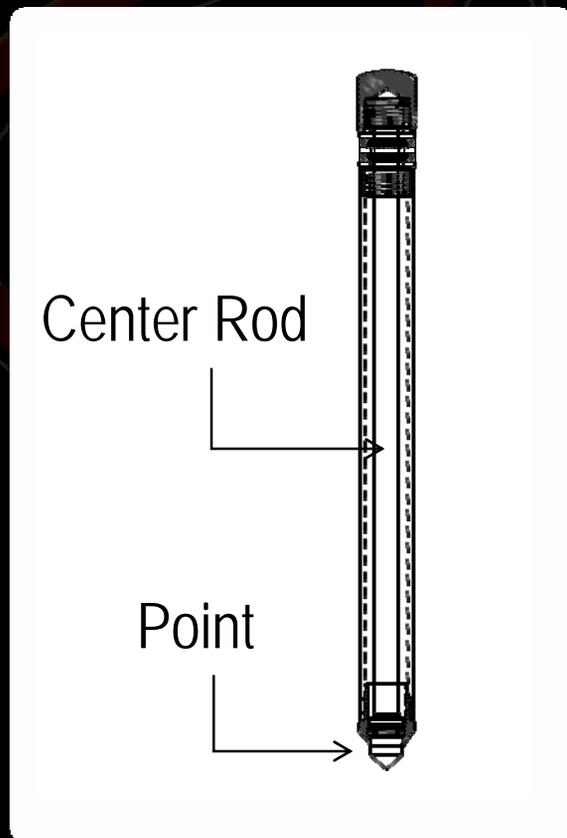


MC5

Standard

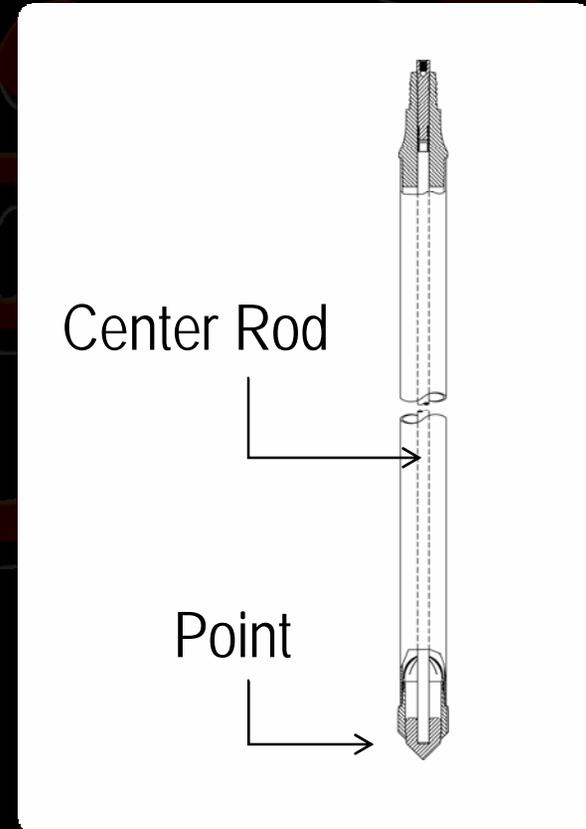


The center rod holds the point in place and the point seals off the cutting shoe, which does not allow soil to enter.

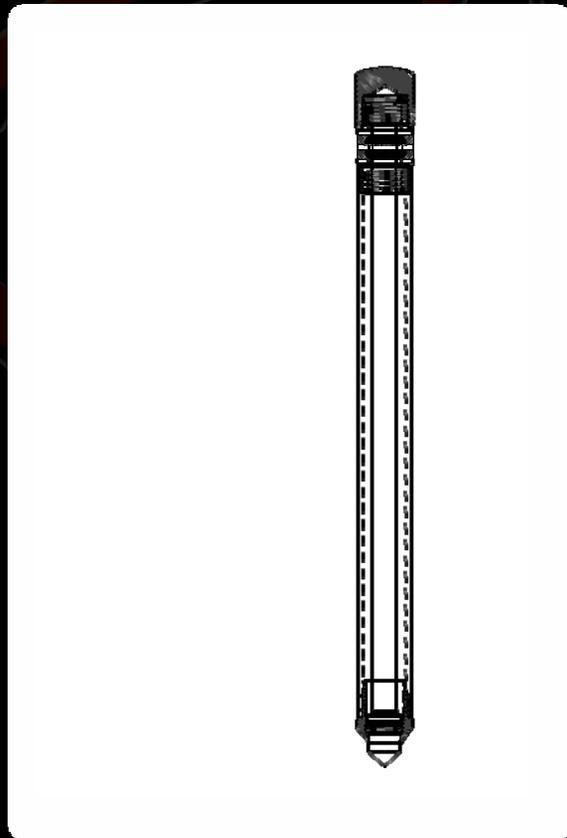


MC5

Standard



But only the MC5 can be run as a discrete sampler.



MC5



Genuine
probe®

Geoprobe[®] Macro-Core[®] MC5



Geoprobe[®] Macro-Core[®] MC5

To get a comparison with the Geoprobe[®] DT22 Dual Tube System, let's assume we are to drive our Macro-Core[®] MC5 discretely to 10' below ground surface (bgs).

Geoprobe[®] Macro-Core[®] MC5

When we reach 10' bgs, we are to collect a soil sample from 10' – 15' bgs.

Geoprobe[®] Macro-Core[®] MC5

Here is how it would look using the
Geoprobe[®] Macro-Core[®] MC5 1.25-inch
Light-Weight Center Rod Soil Sampling
System.

Assemble MC5 Sampler with 1.25-inch
Light-Weight Center Rod



Assemble MC5 Sampler with 1.25-inch Light-Weight Center Rod



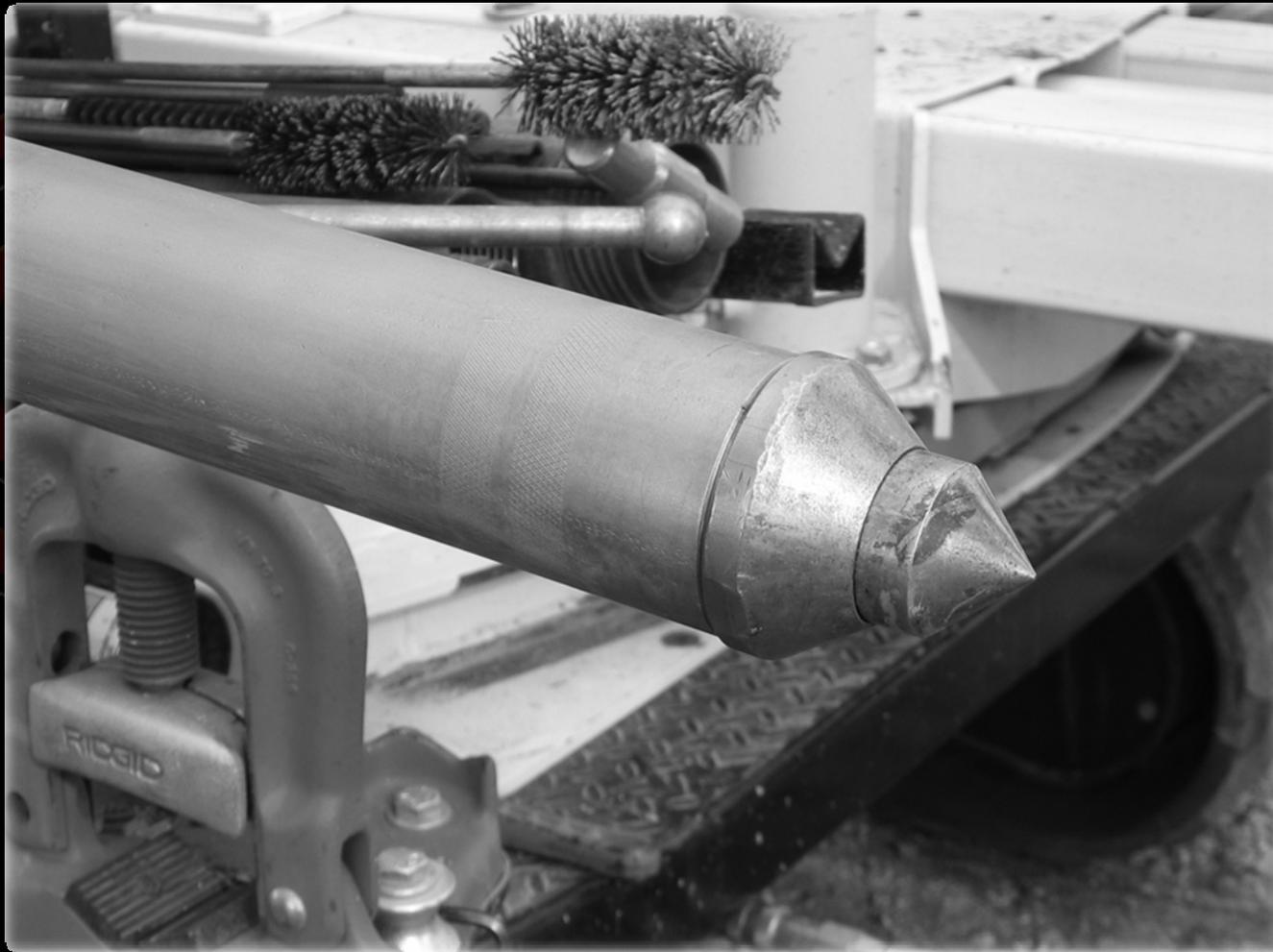
Assemble MC5 Sampler with 1.25-inch Light-Weight Center Rod



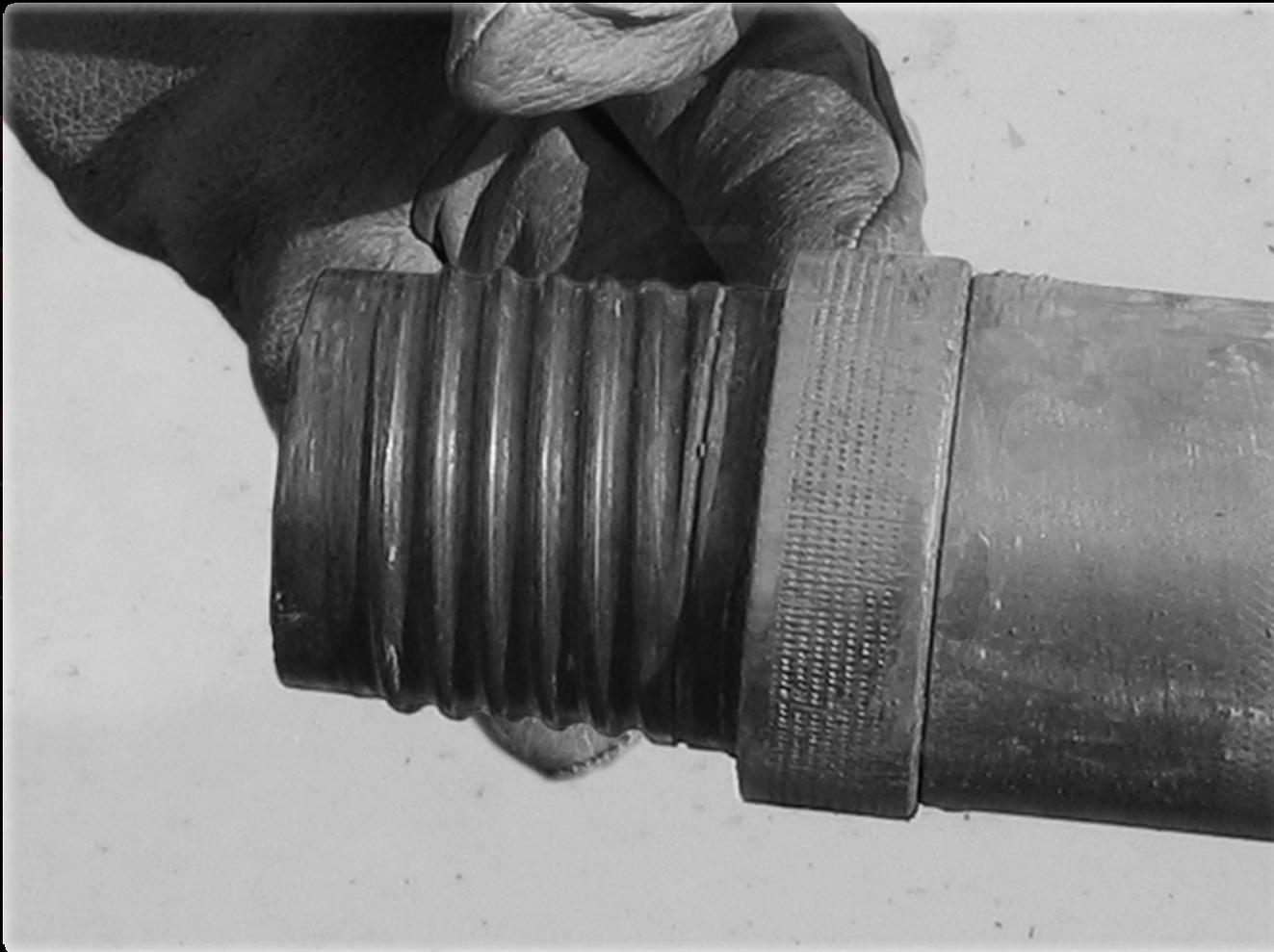
Assemble MC5 Sampler with 1.25-inch Light-Weight Center Rod



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Assemble MC5 Sampler with 1.25-inch Light-Weight Center Rod

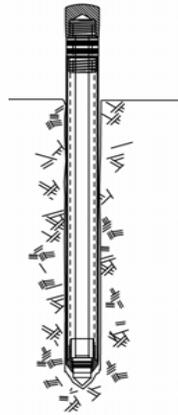


Assembled MC5
Sampler is driven
to the first interval
(5').

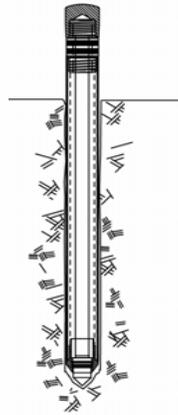
The logo for Geoprobe is centered on the slide. It features the word "Genuine" in a smaller, italicized, serif font above the word "Geoprobe" in a larger, bold, serif font. A registered trademark symbol (®) is located to the right of "Geoprobe". The entire logo is enclosed within a dark red, horizontally-oriented oval border.

Genuine
Geoprobe®

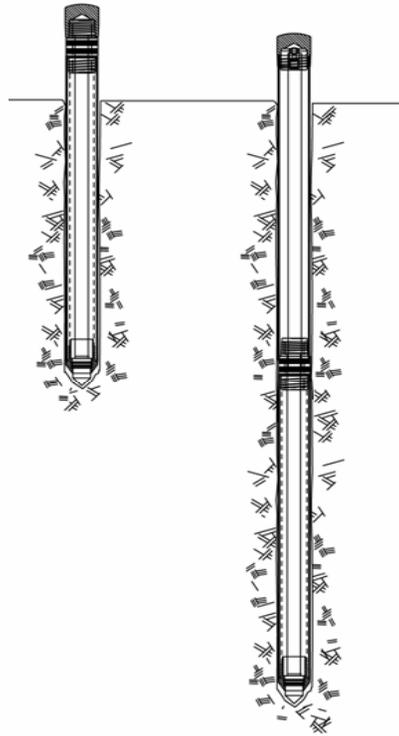
Assembled MC5
Sampler is driven
to the first interval
(5').



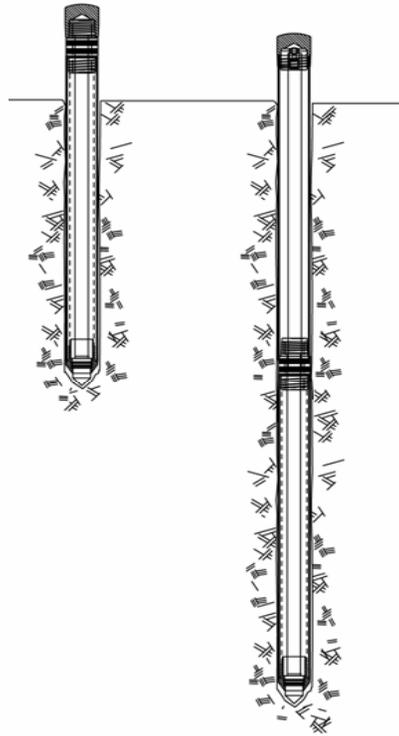
A 2.25-inch probe rod and 1.25-inch Light-Weight Center Rod are added and the tool string is advanced to 10'.



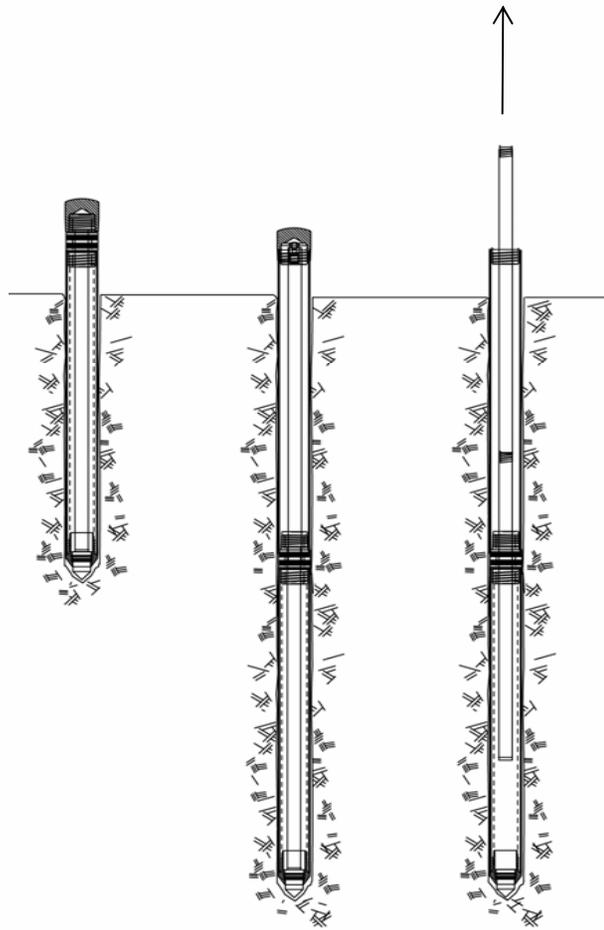
A 2.25-inch probe rod and 1.25-inch Light-Weight Center Rod are added and the tool string is advanced to 10'.



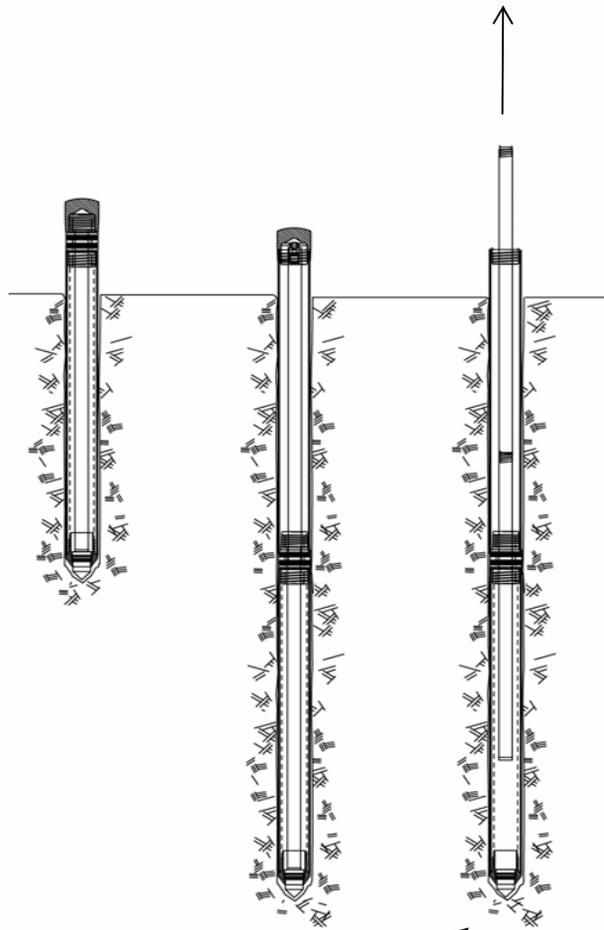
Once the sampling interval is reached, the 1.25-inch Light-Weight Center Rod string is removed.



Once the sampling interval is reached, the 1.25-inch Light-Weight Center Rod string is removed.

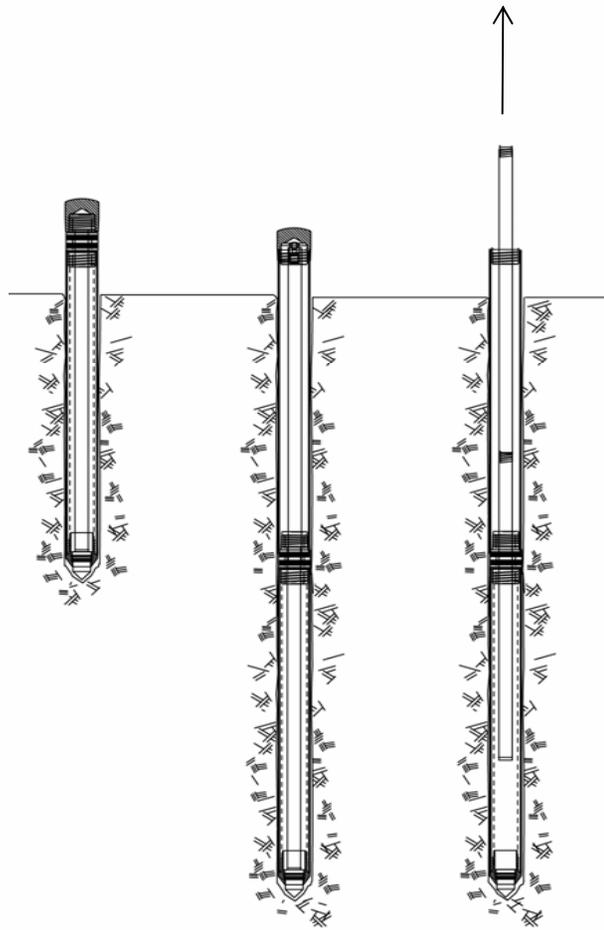


Once the sampling interval is reached, the 1.25-inch Light-Weight Center Rod string is removed.

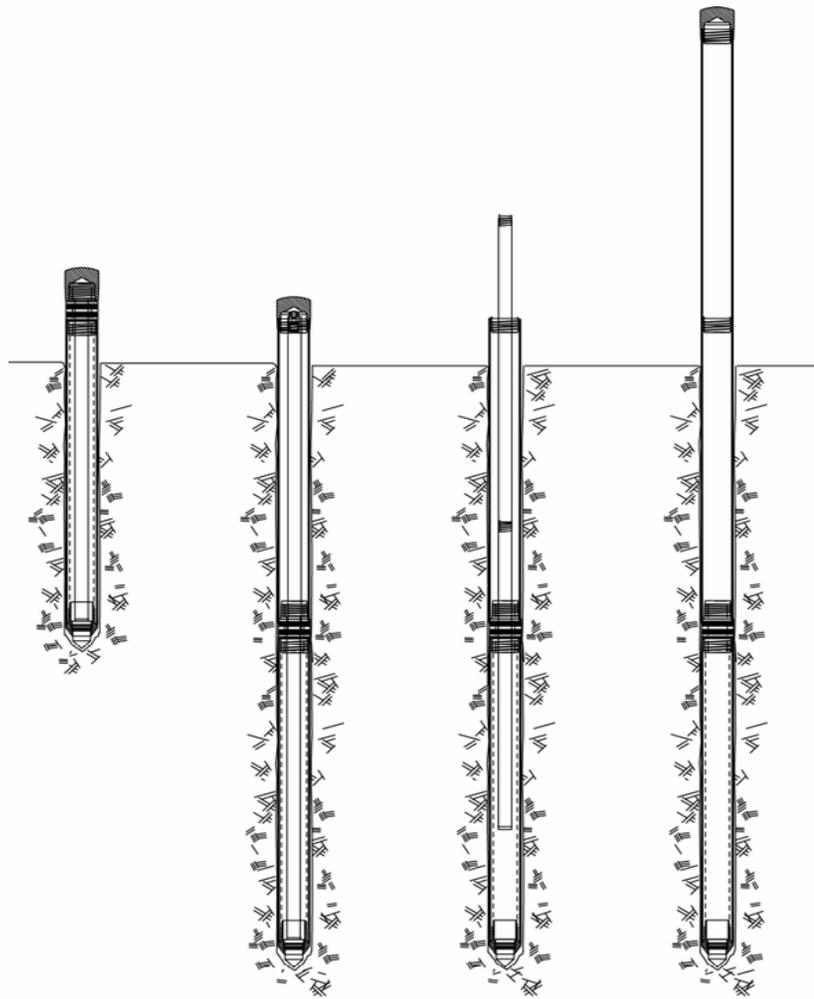


Note: No weight on the point anymore.

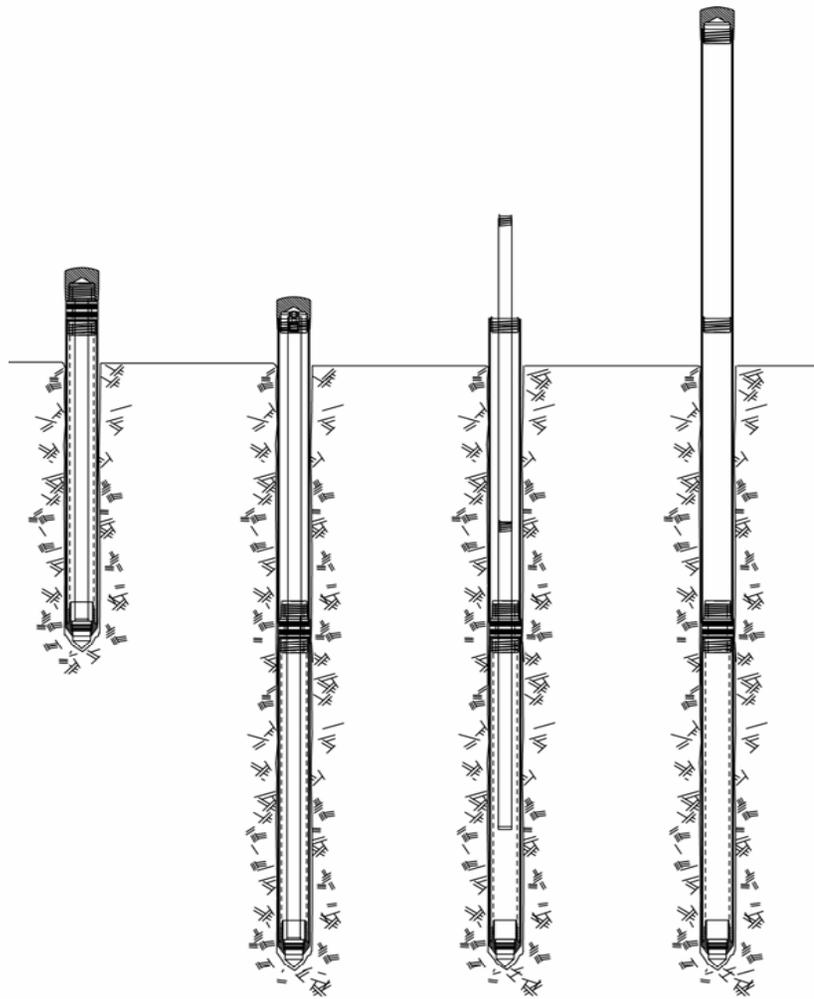
A 2.25-inch probe rod is added to the tool string.



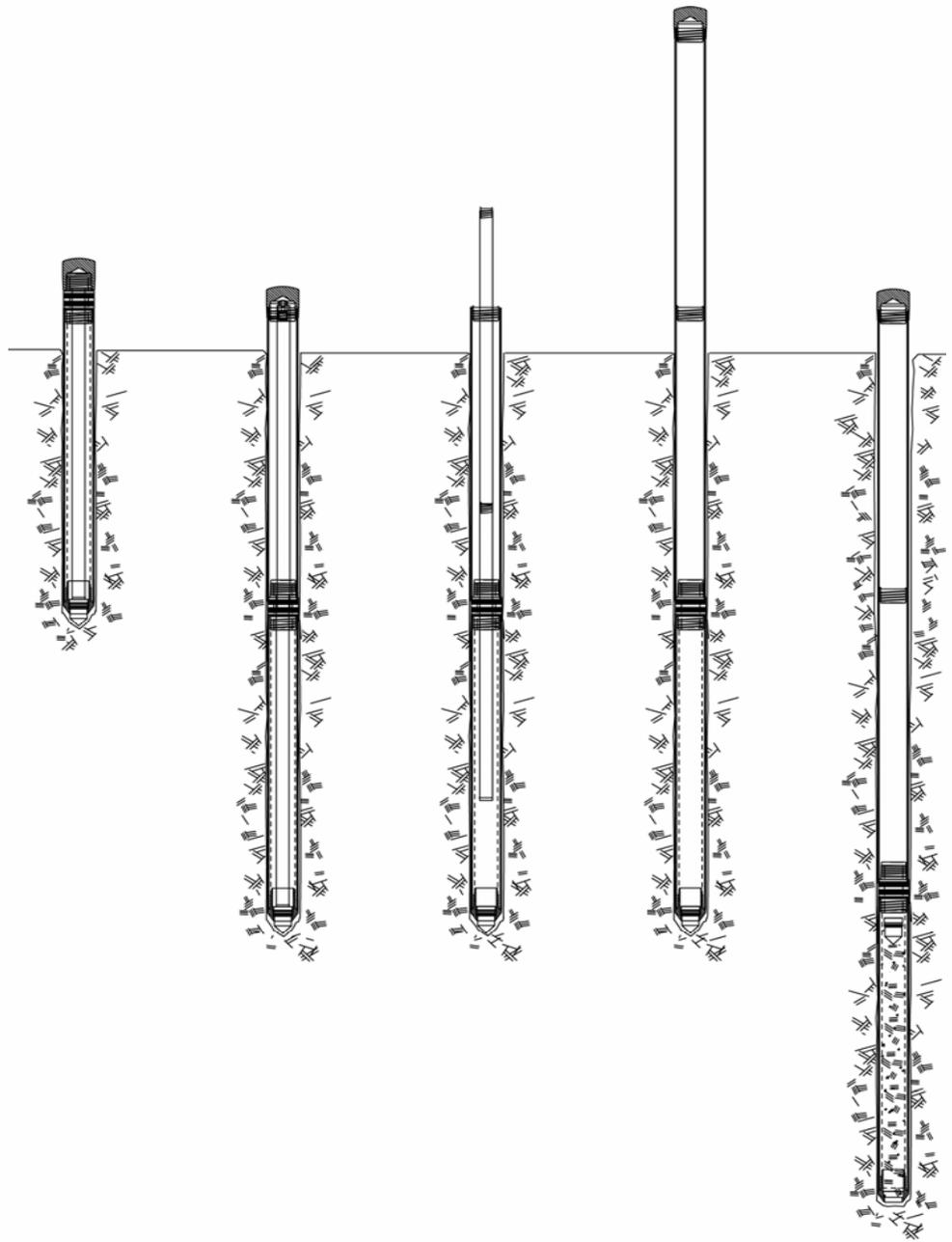
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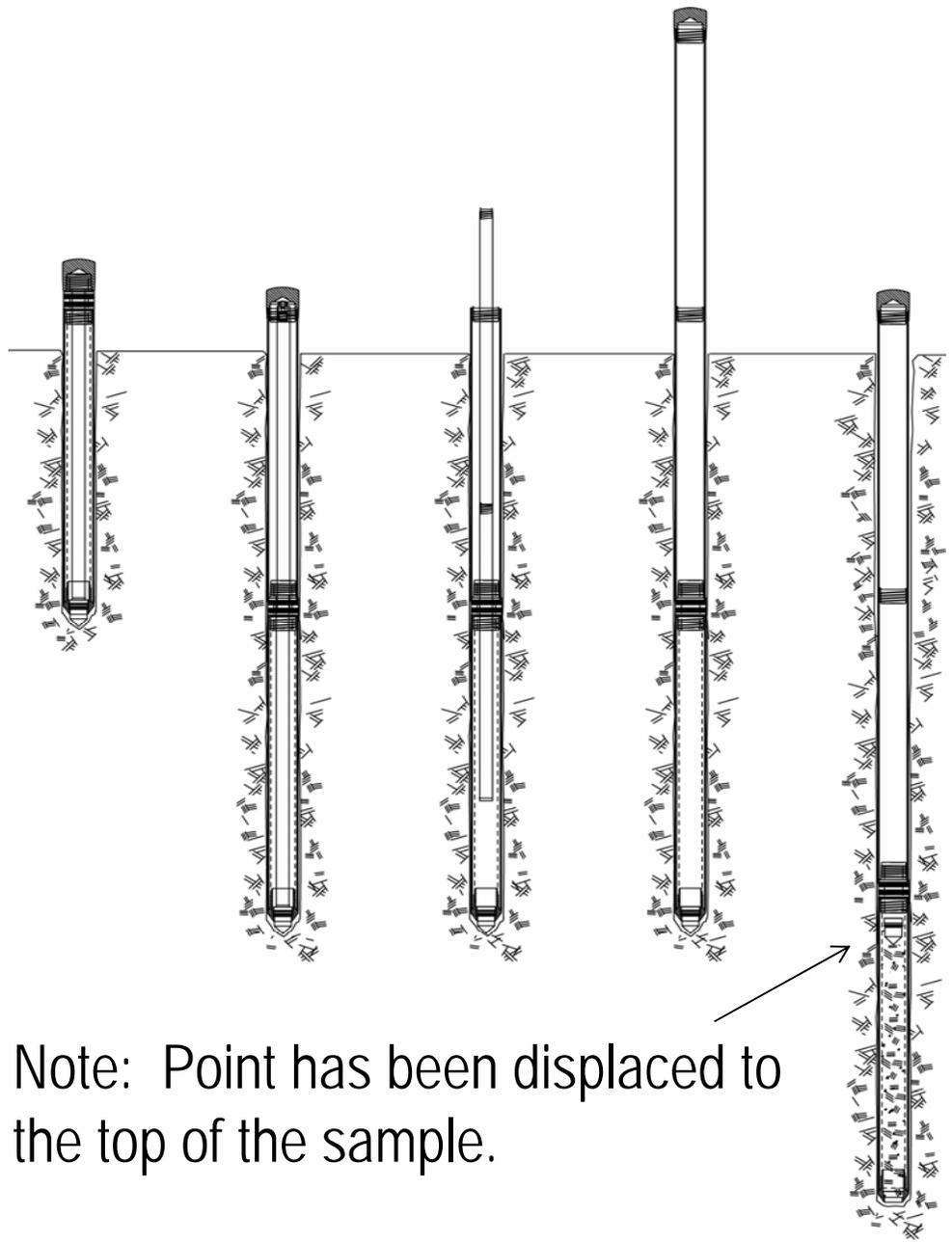
The tool string is advanced and a soil core is collected in the liner.



The tool string is advanced and a soil core is collected in the liner.

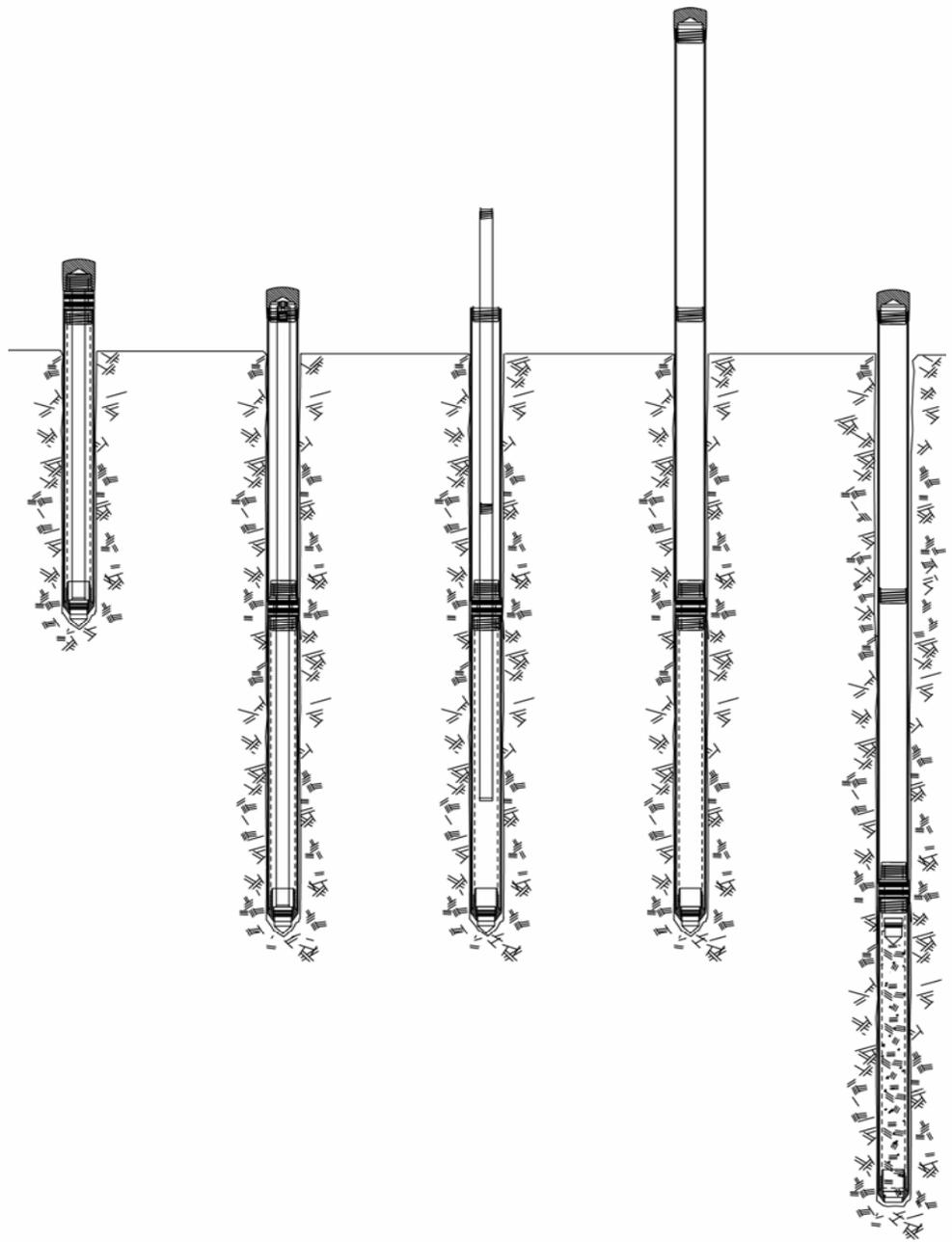


The tool string is advanced and a soil core is collected in the liner.



Note: Point has been displaced to the top of the sample.

The tool string is removed to retrieve the soil core.



The tool string is removed to retrieve the soil core.



The tool string is removed to retrieve the soil core.



The tool string is removed to retrieve the soil core.



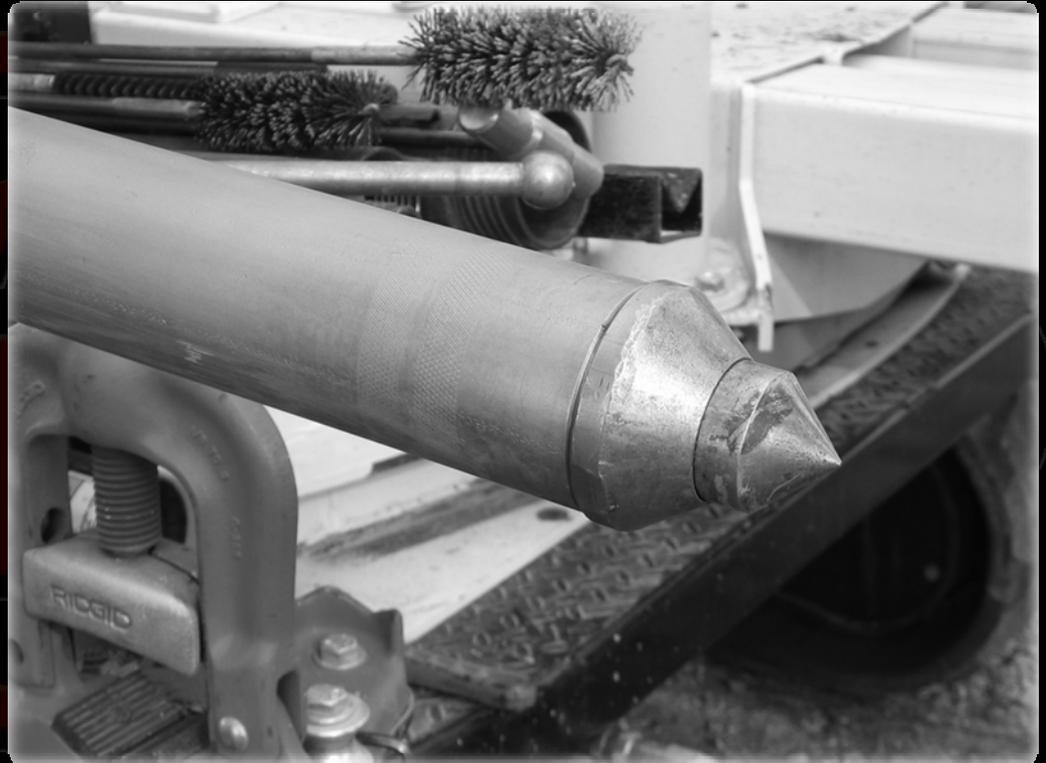
If you needed to continue sampling, you would need to re-assemble your sample tube with liner, point,



If you needed to continue sampling, you would need to re-assemble your sample tube with liner, point, and inner rod.



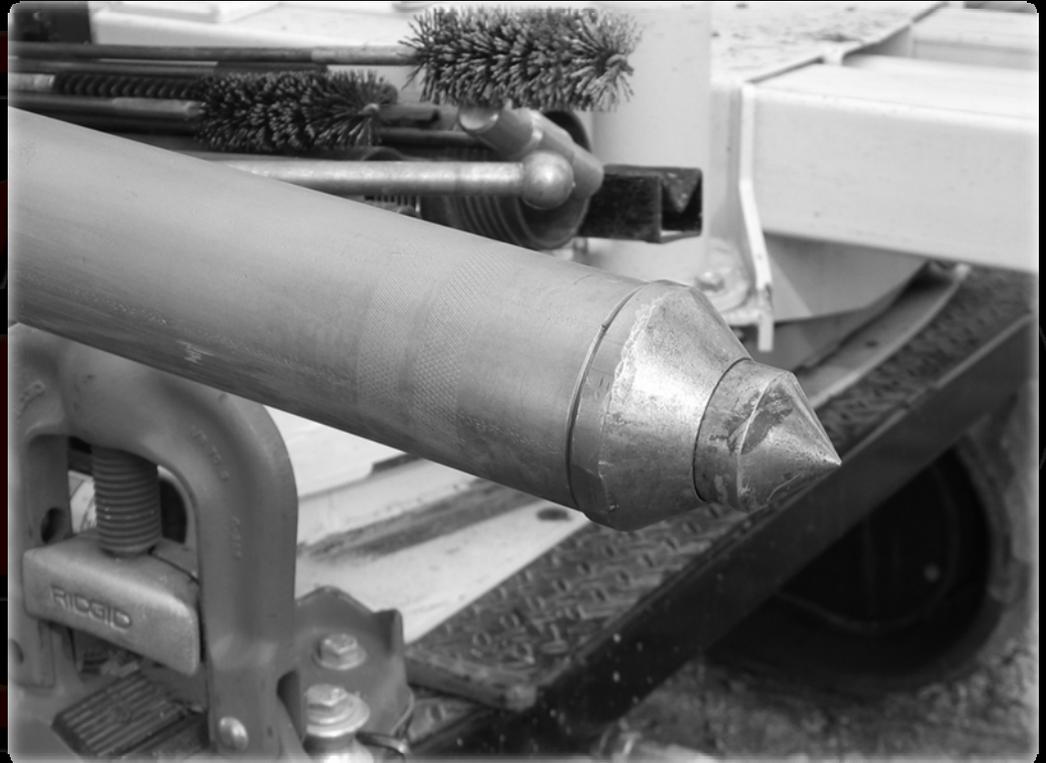
By doing this, you insure that you are not sampling slough on your next push.



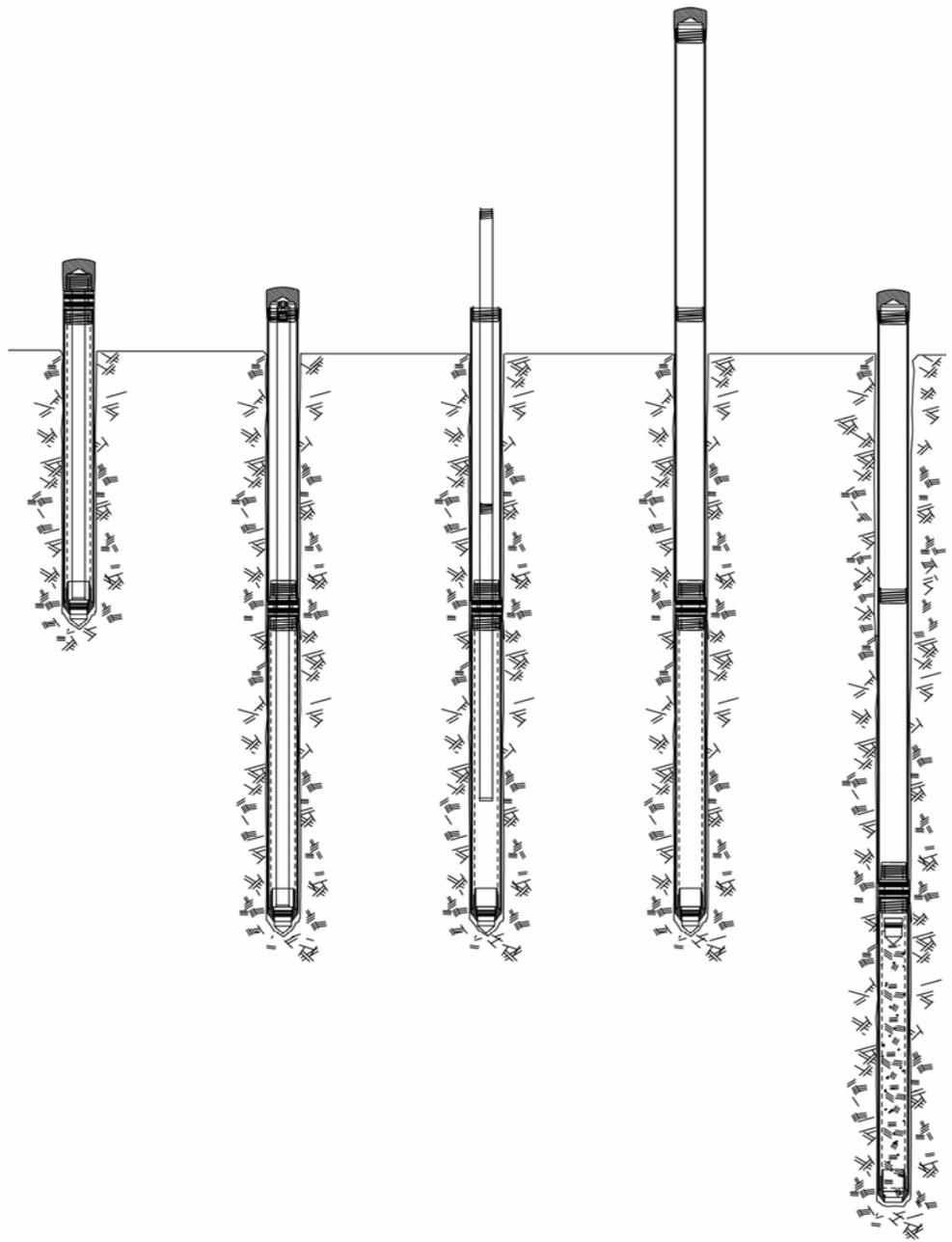
Send the
assembled
sample tube
down,



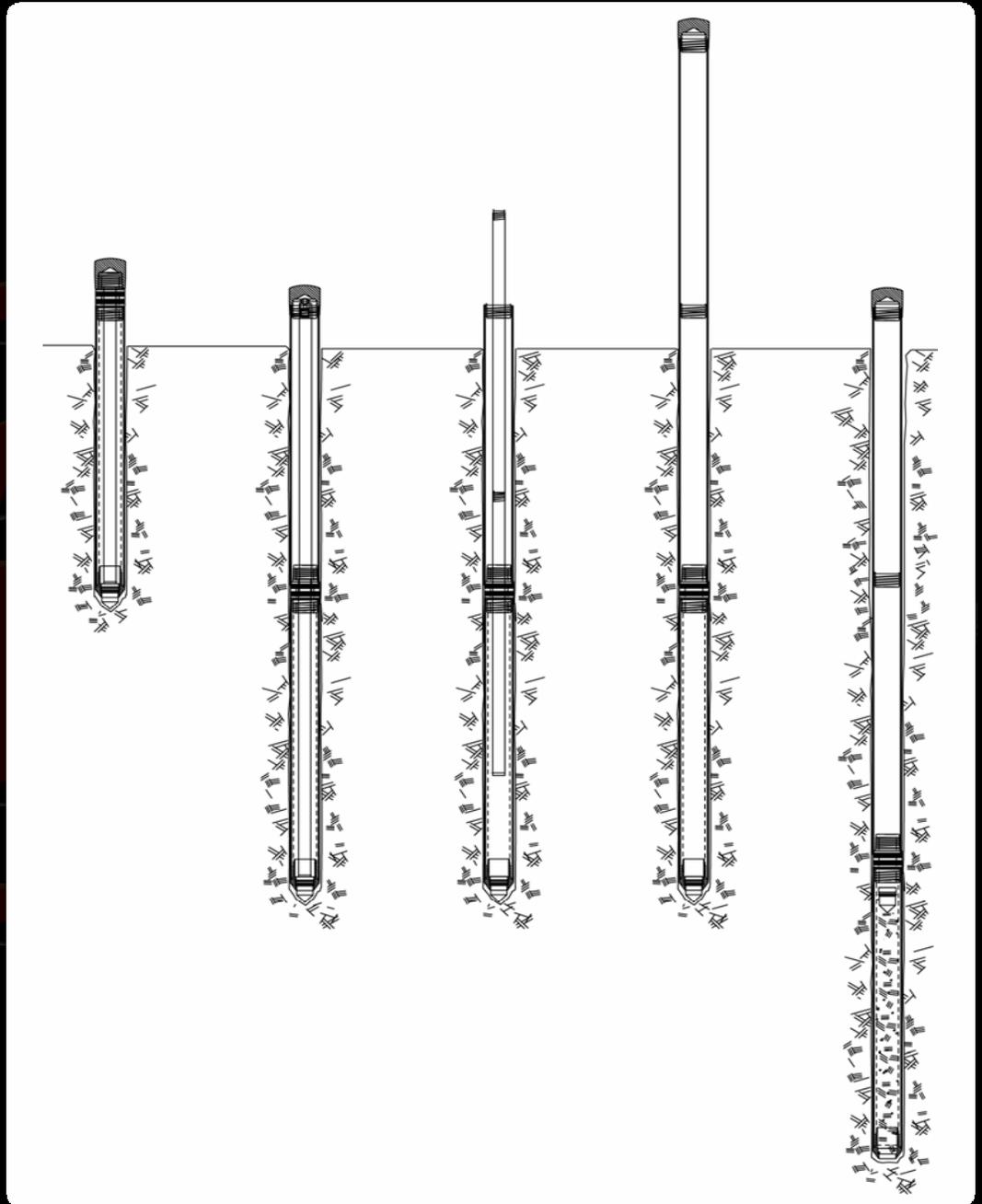
Send the assembled sample tube down, adding inner and outer rod as you lower the sample tube.



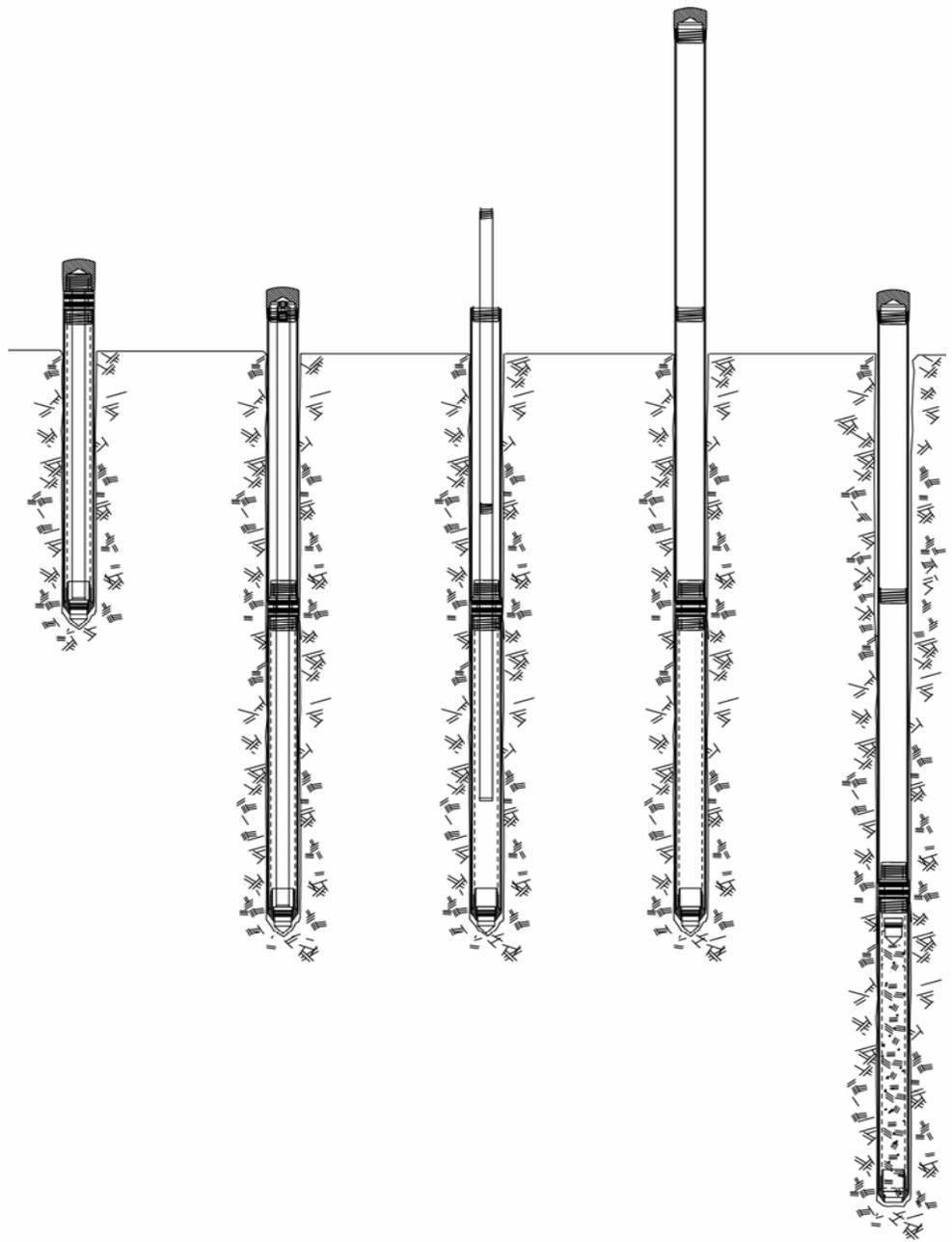
When you reach
the previous
interval (in our
example – 15'),



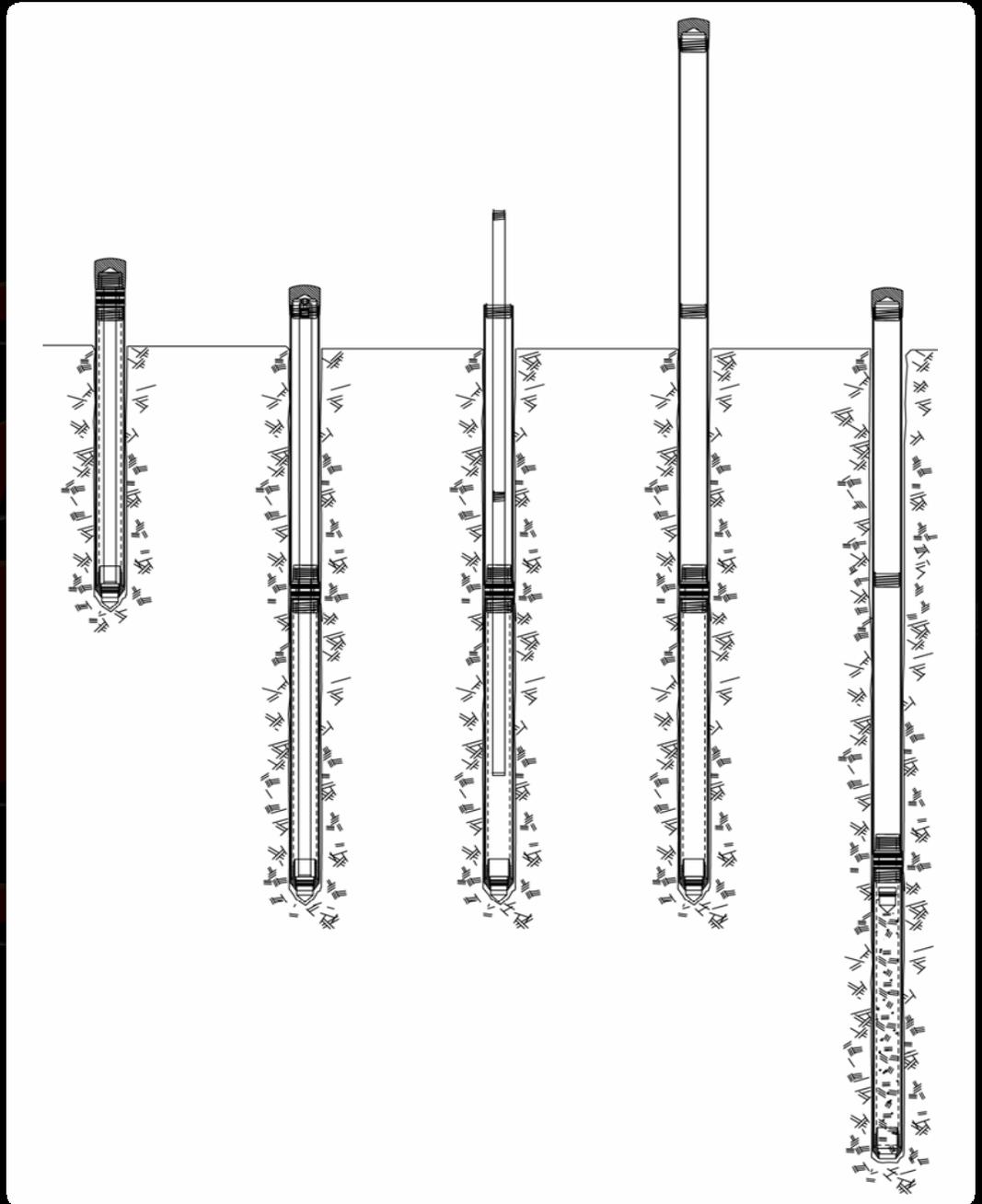
When you reach the previous interval (in our example – 15'), you can either drive discretely to a new interval by adding inner and outer rods,



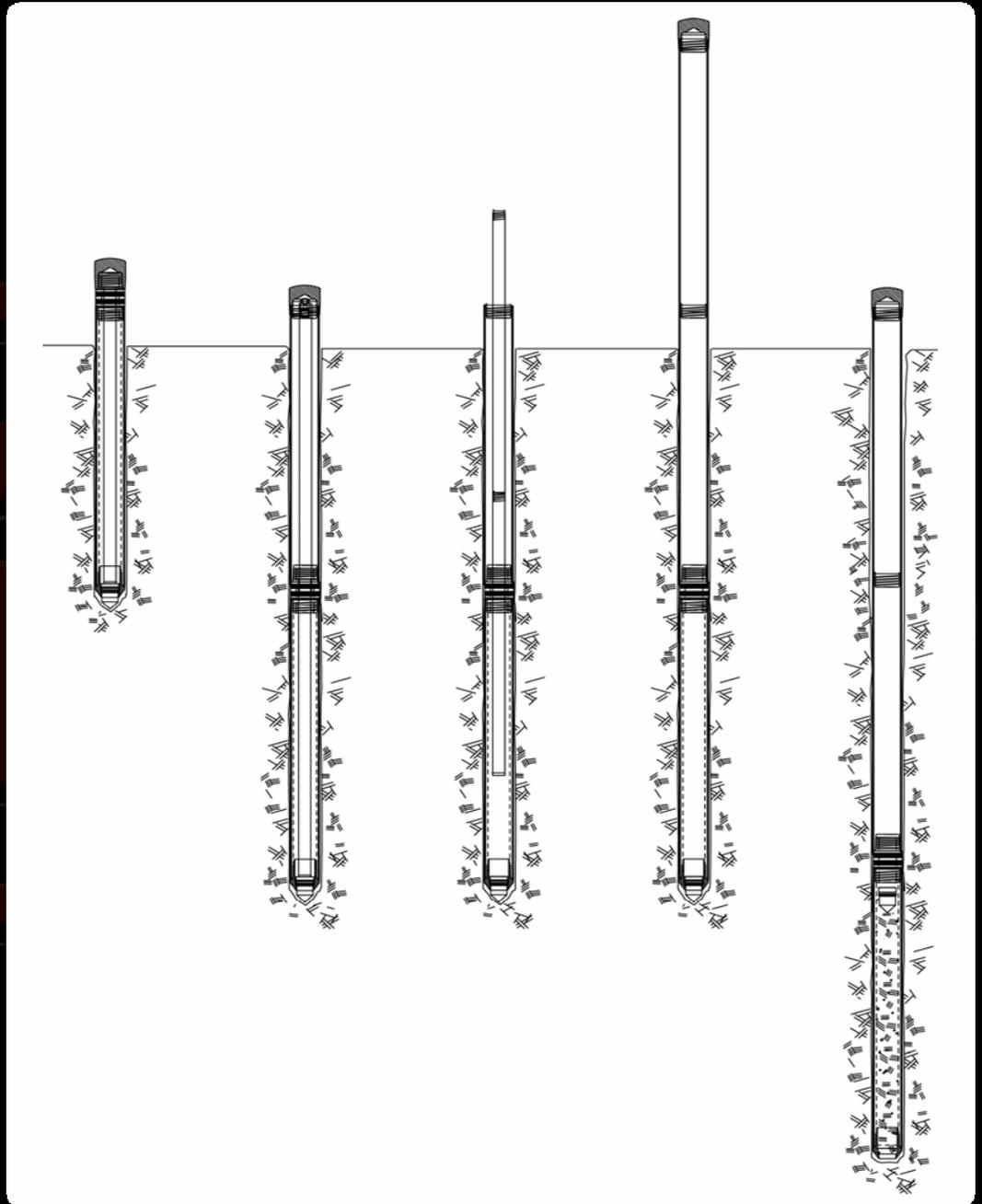
or you can
remove the inner
rods and point
and do continuous
sampling.



With the Macro-Core[®] system you have to remove the entire tool string every time you want to retrieve your soil sample.



With the
Geoprobe[®] DT22
Dual Tube Soil
Sampling System,
you only remove
the inner string of
rods to retrieve
your soil sample...



Geoprobe[®] DT22 Dual Tube



Geoprobe® DT22 Dual Tube

Let's see how the DT22 Dual Tube system would handle a similar situation:

Geoprobe® DT22 Dual Tube

Let's see how the DT22 Dual Tube system would handle a similar situation: this time, we will assume we are to drive discretely to 5' below ground surface (bgs).

Geoprobe® DT22 Dual Tube

When we reach 5' bgs, we are to collect a soil sample from 5' – 10' bgs.

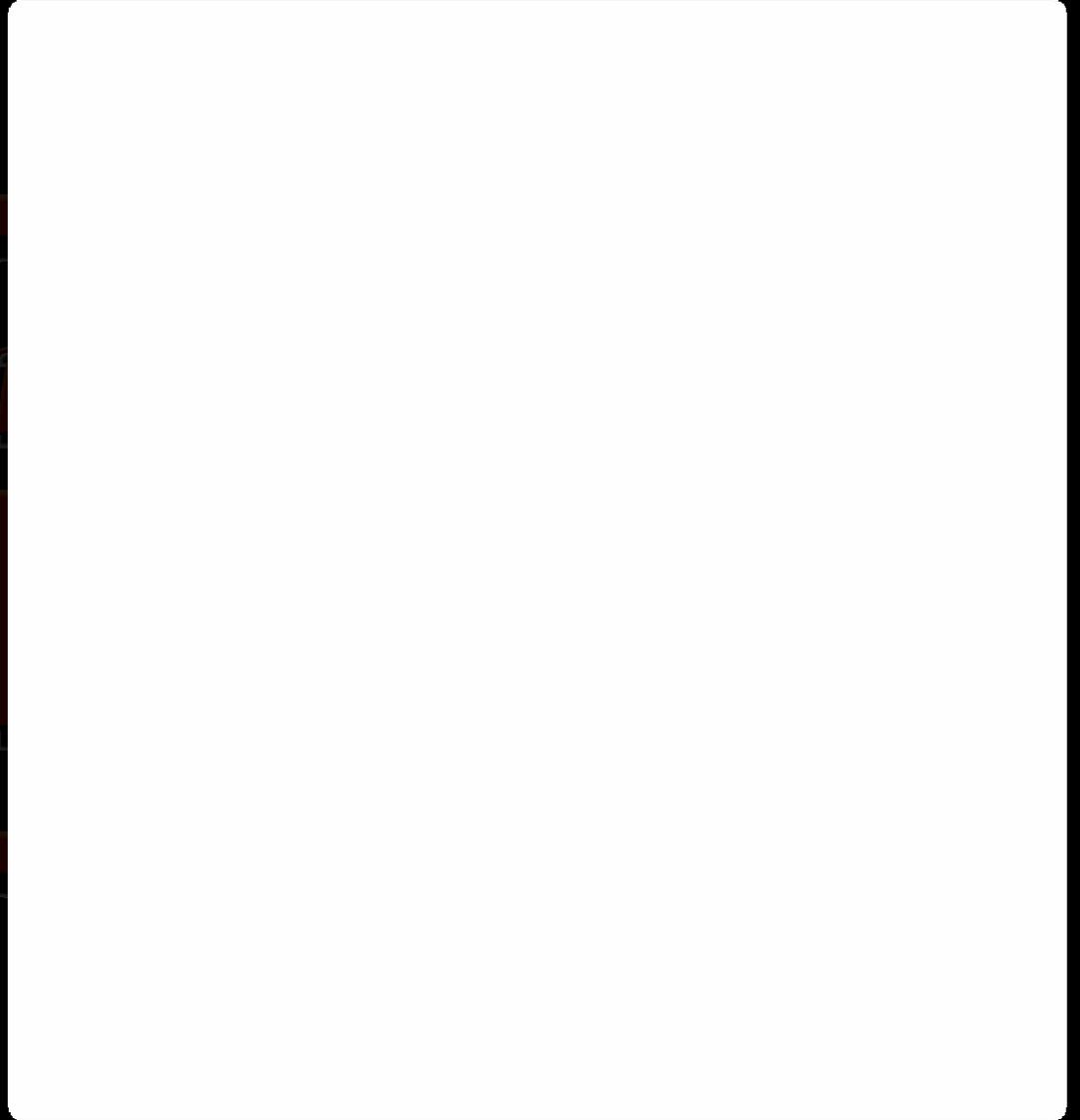
Geoprobe® DT22 Dual Tube

Here is how it would look using the
Geoprobe® DT22 Dual Tube Soil
Sampling System.

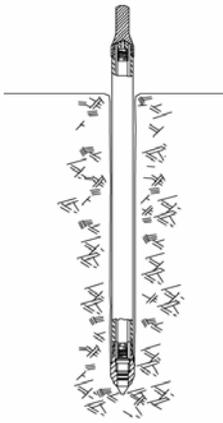
Assembled outer casing and inner rod string using 1.25-inch Light-Weight Center Rod with DT22 Solid Drive Tip is driven to 5'.

The logo for Geoprobe is centered in the background. It features the word "Genuine" in a smaller, italicized font above the word "Geoprobe" in a larger, bold, sans-serif font. A registered trademark symbol (®) is located to the right of "Geoprobe". The entire logo is enclosed within a dark, horizontal oval border.

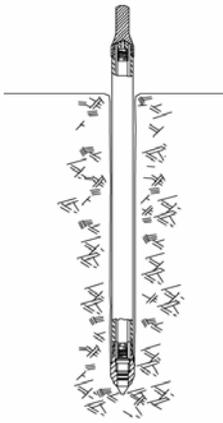
Assembled outer casing and inner rod string using 1.25-inch Light-Weight Center Rod with DT22 Solid Drive Tip is driven to 5'.



Assembled outer casing and inner rod string using 1.25-inch Light-Weight Center Rod with DT22 Solid Drive Tip is driven to 5'.



The solid tip is removed by retrieving the inner rod string.



The solid tip is removed by retrieving the inner rod string.



A sample liner,



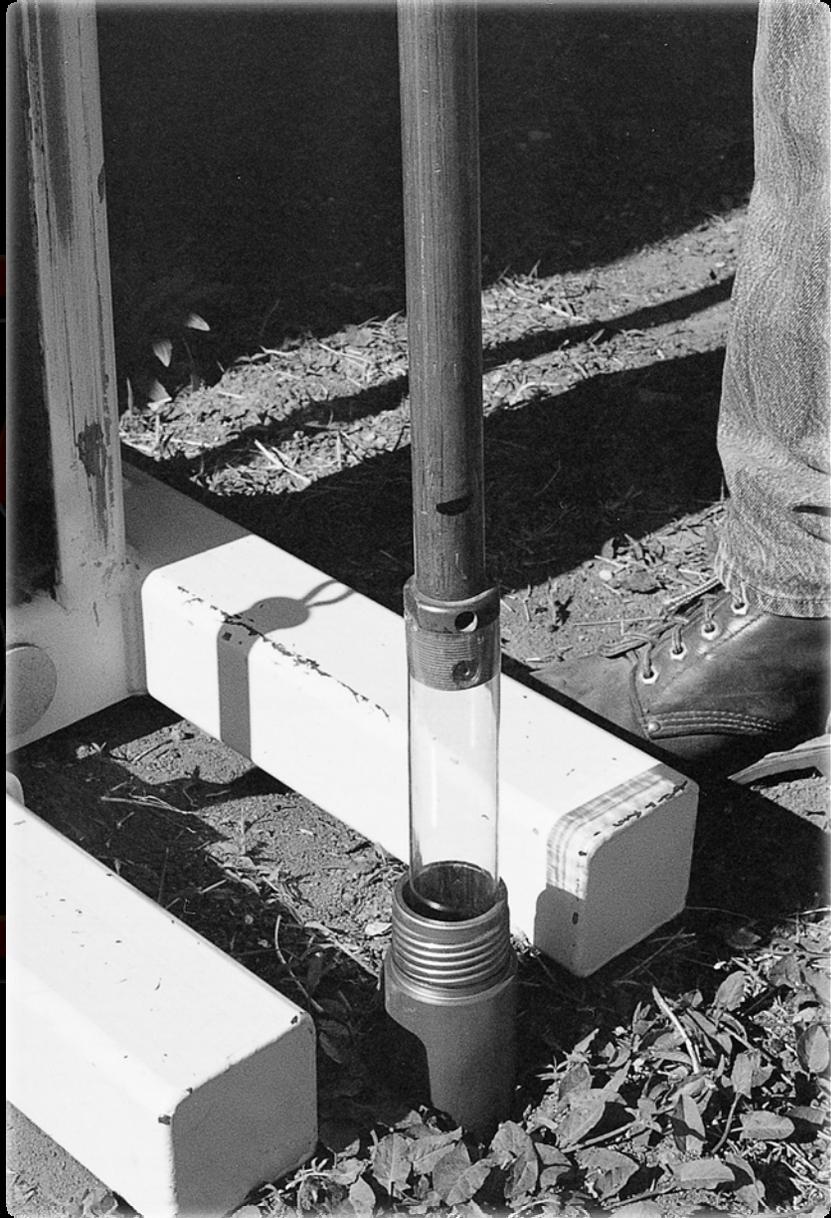
Gen
Geop

A sample liner,
drive head,

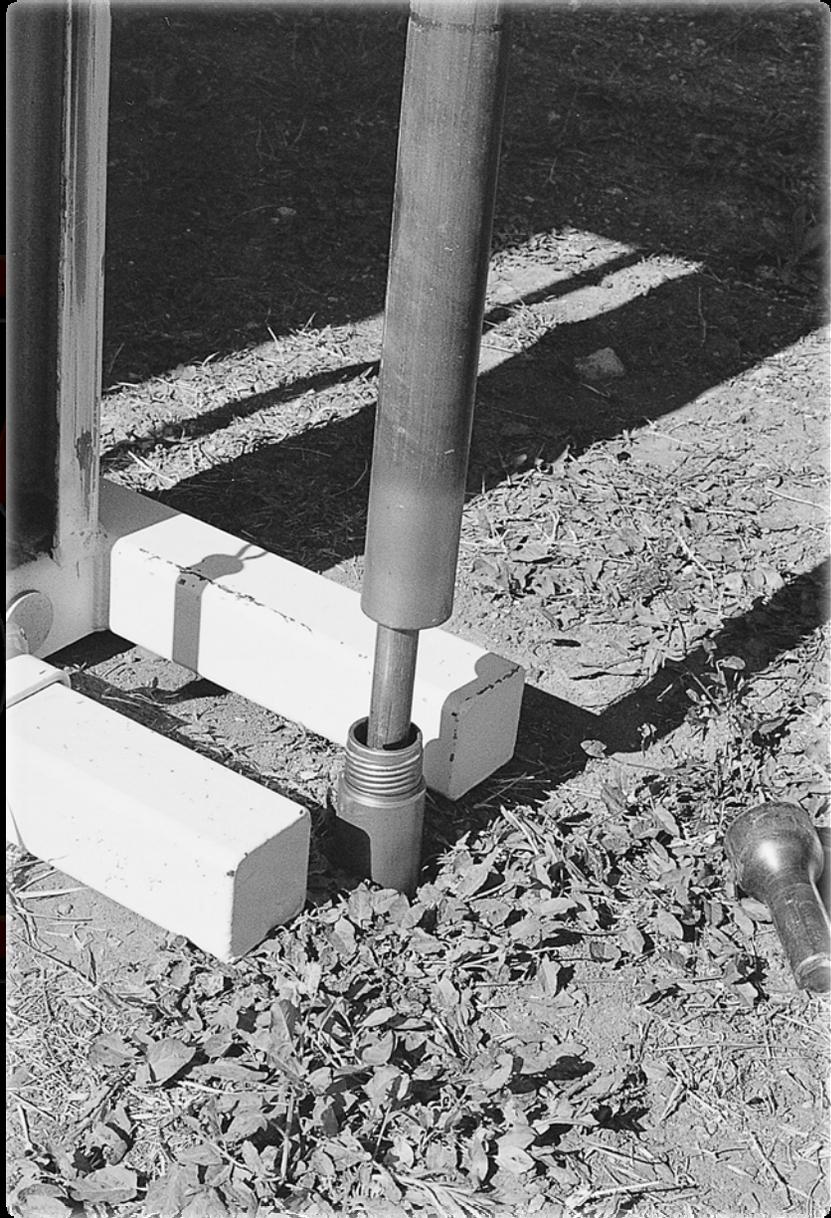


Gen
Geop

A sample liner,
drive head, and
inner rod are
placed inside the
casing.



The outer casing
section,

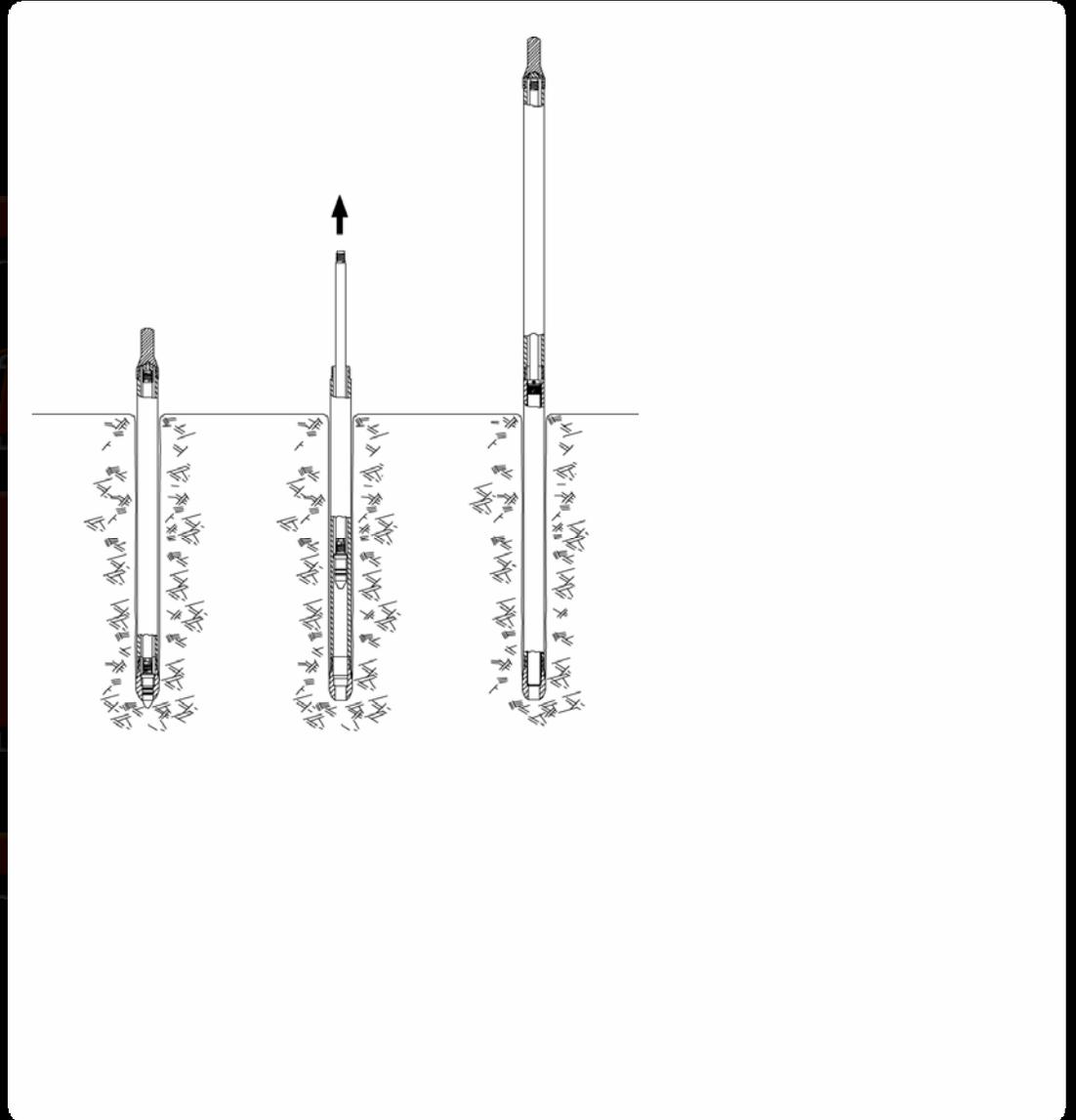


Genu
Geop

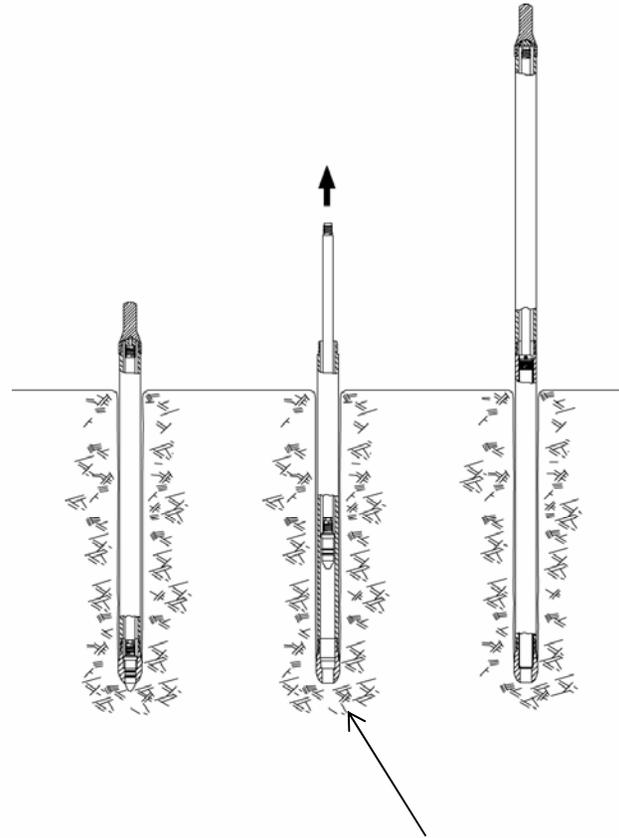
The outer casing section, a drive bumper, and a drive cap are also added to the tool string.



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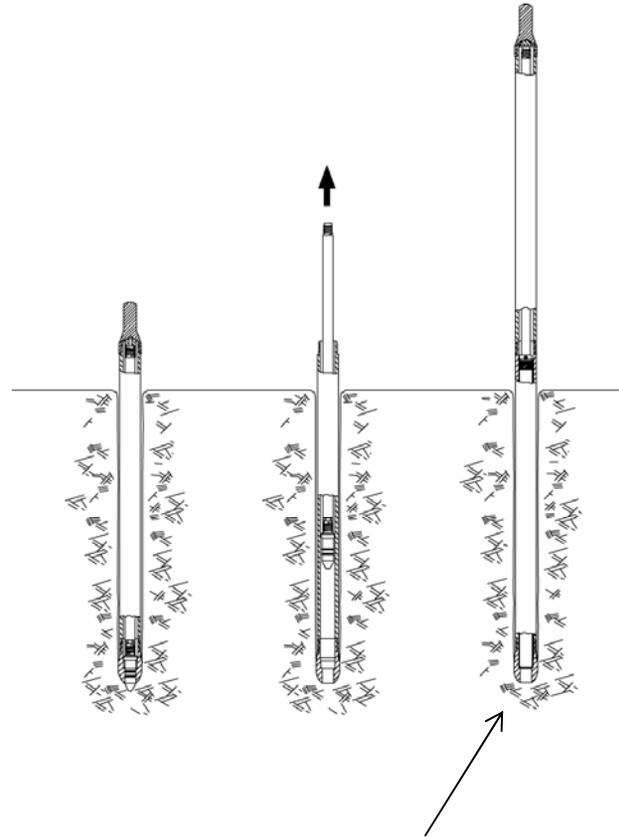


The outer casing section, a drive bumper, and a drive cap are also added to the tool string.



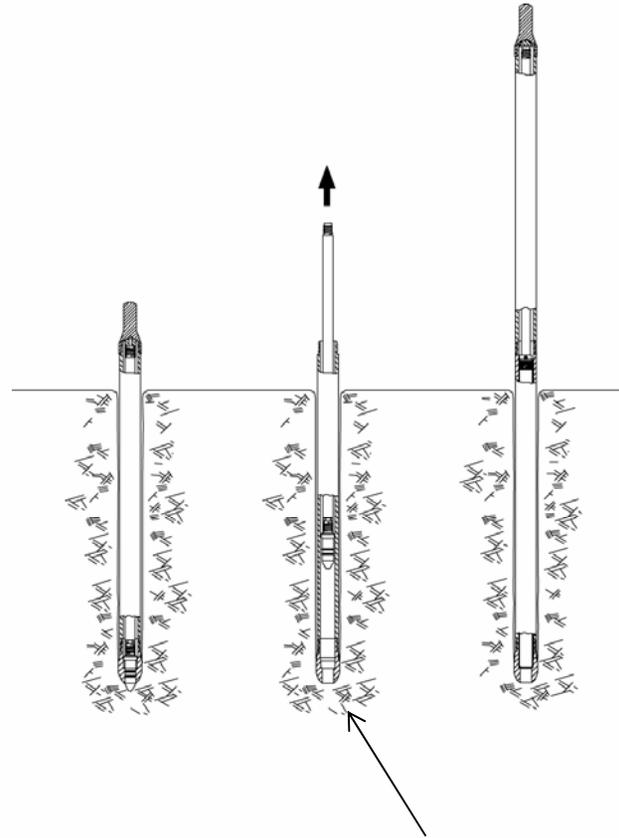
Note: Shoe is open (no point).

The outer casing section, a drive bumper, and a drive cap are also added to the tool string.



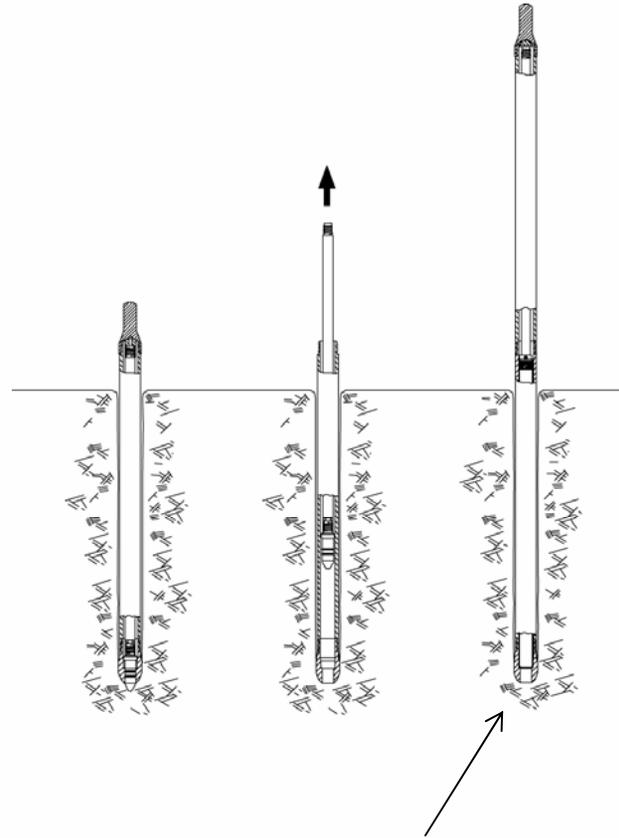
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The outer casing section, a drive bumper, and a drive cap are also added to the tool string.



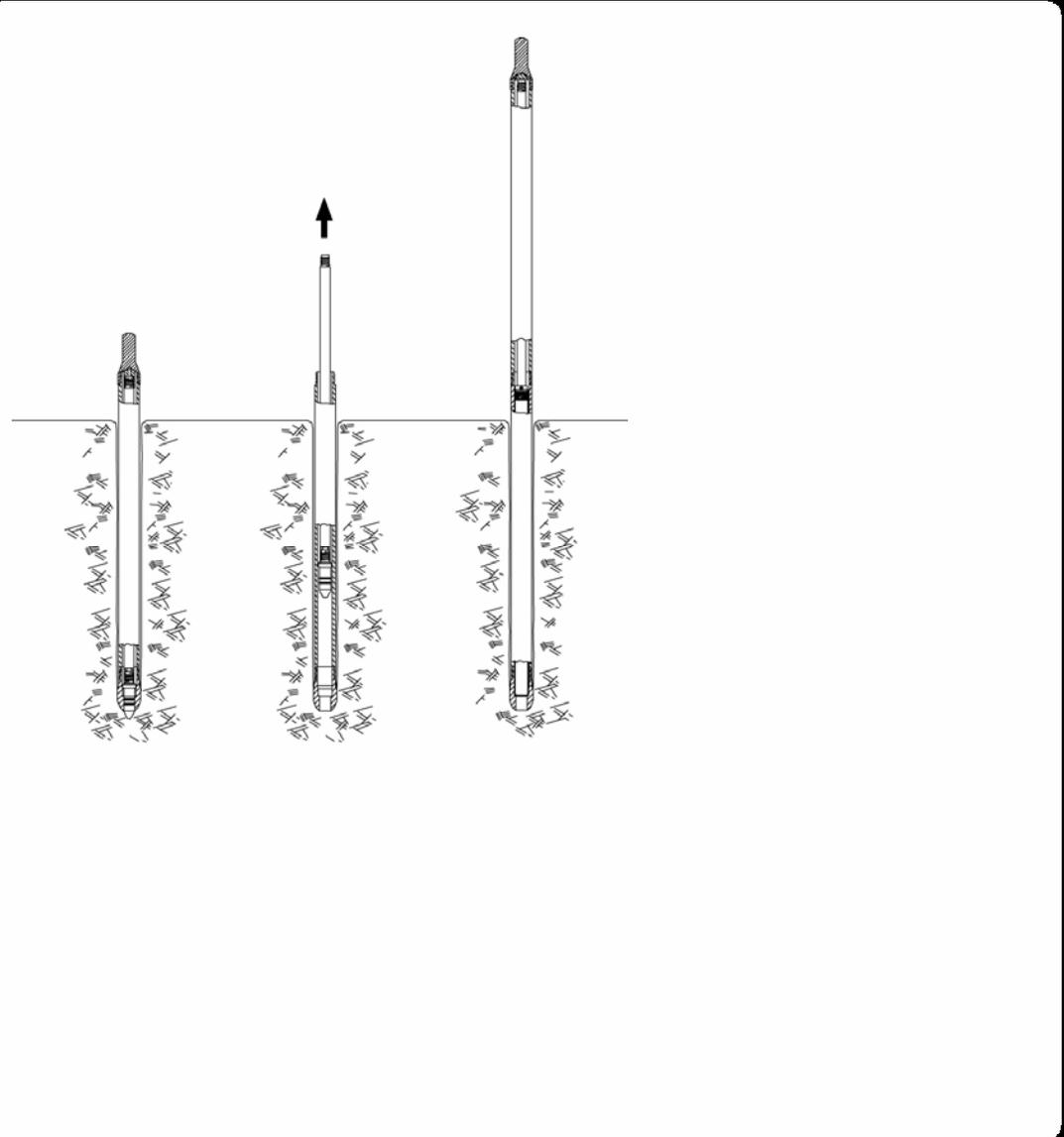
Note: Shoe is open (no point).

The outer casing section, a drive bumper, and a drive cap are also added to the tool string.

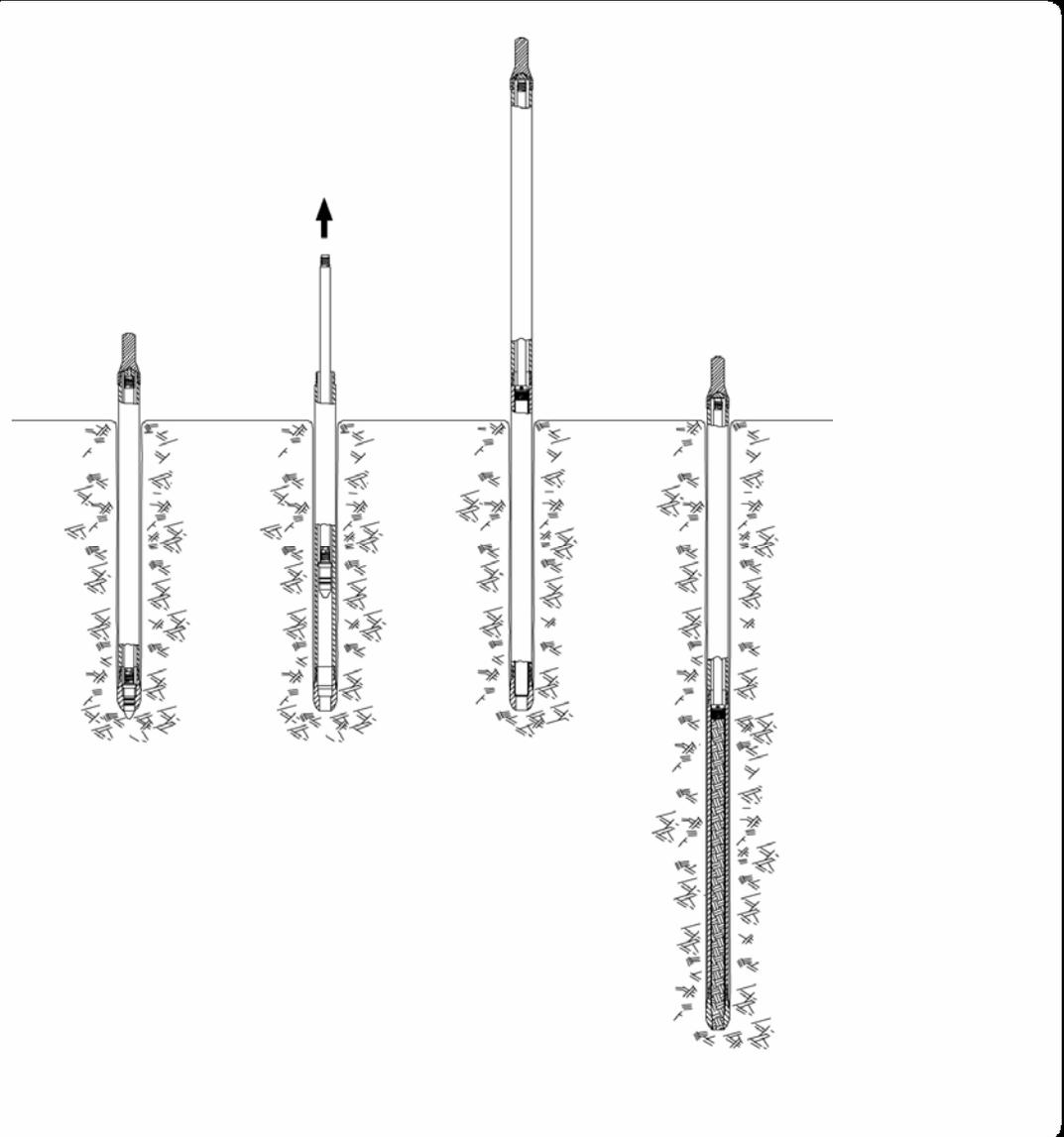


Note: Shoe is open (no point).

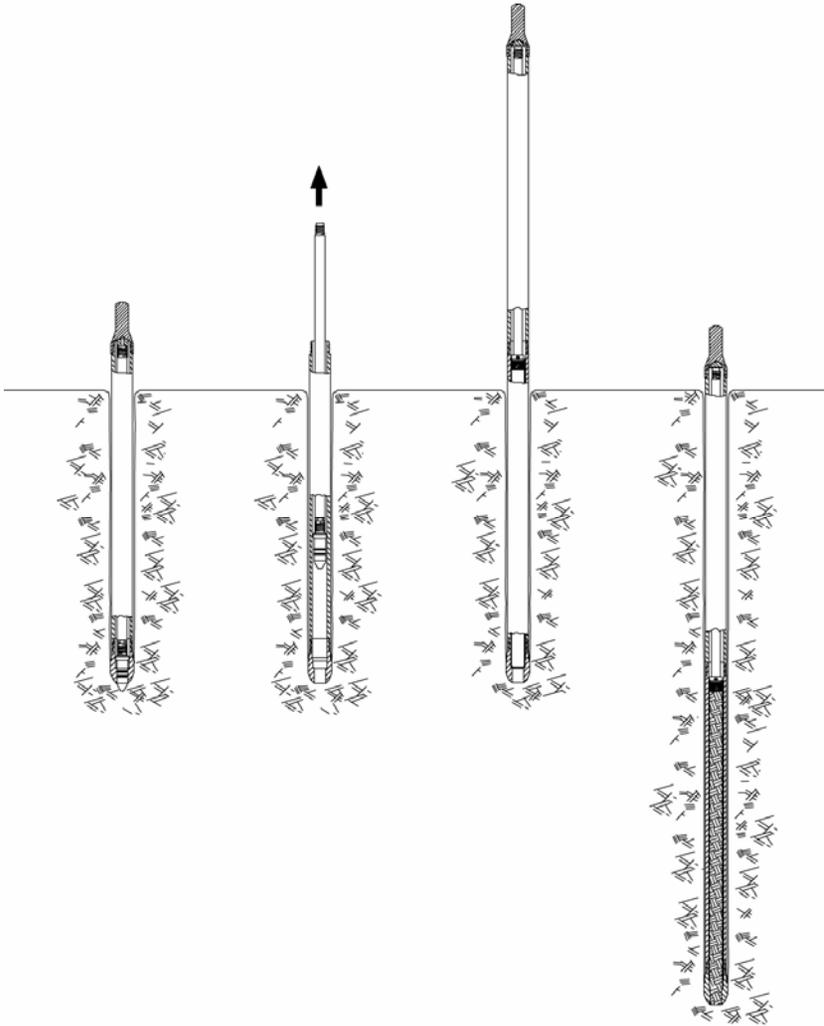
The tool string is now driven to collect the soil core.



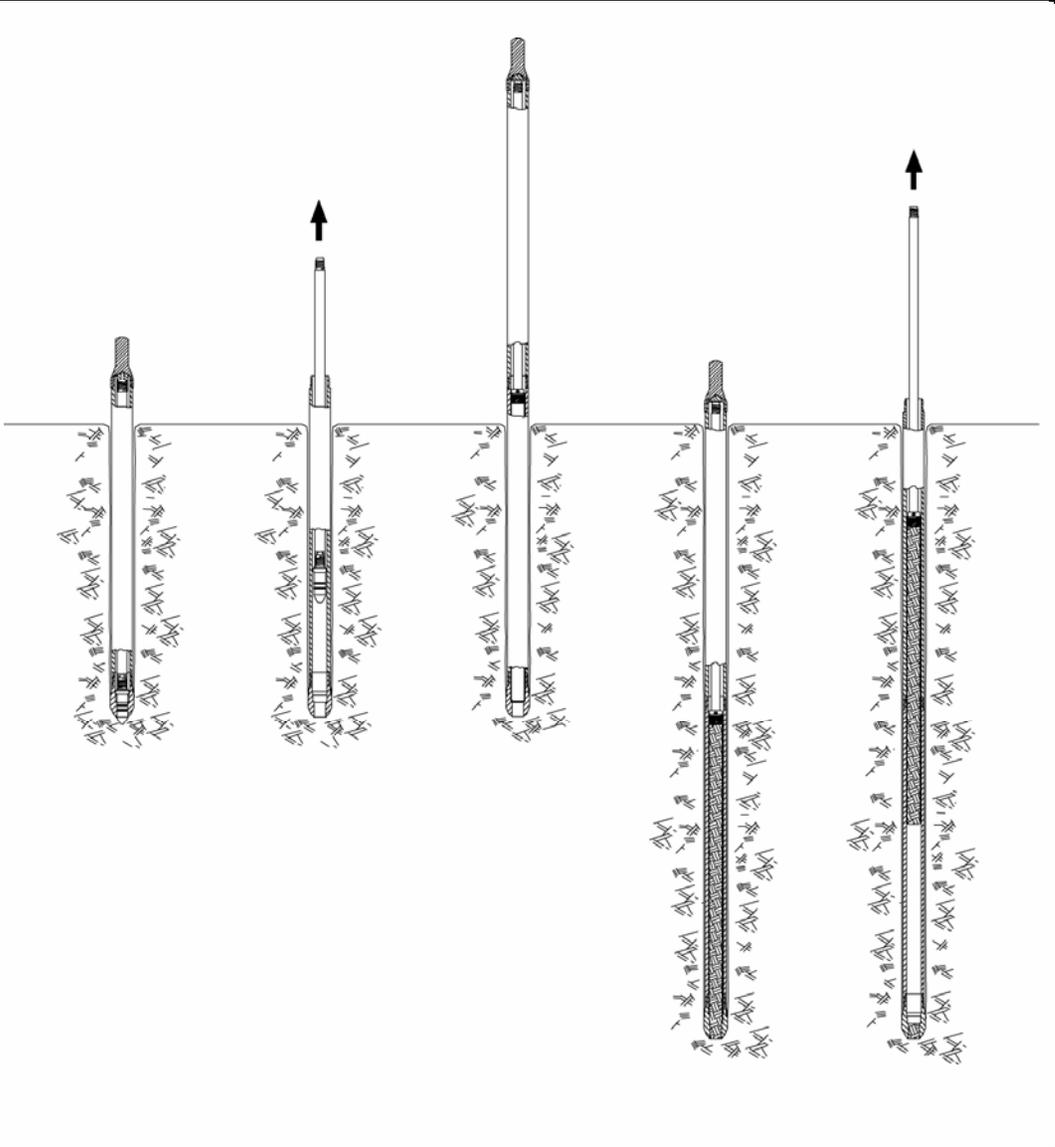
The tool string is now driven to collect the soil core.



The inner rod
and liner are
then retrieved
from the outer
casing.



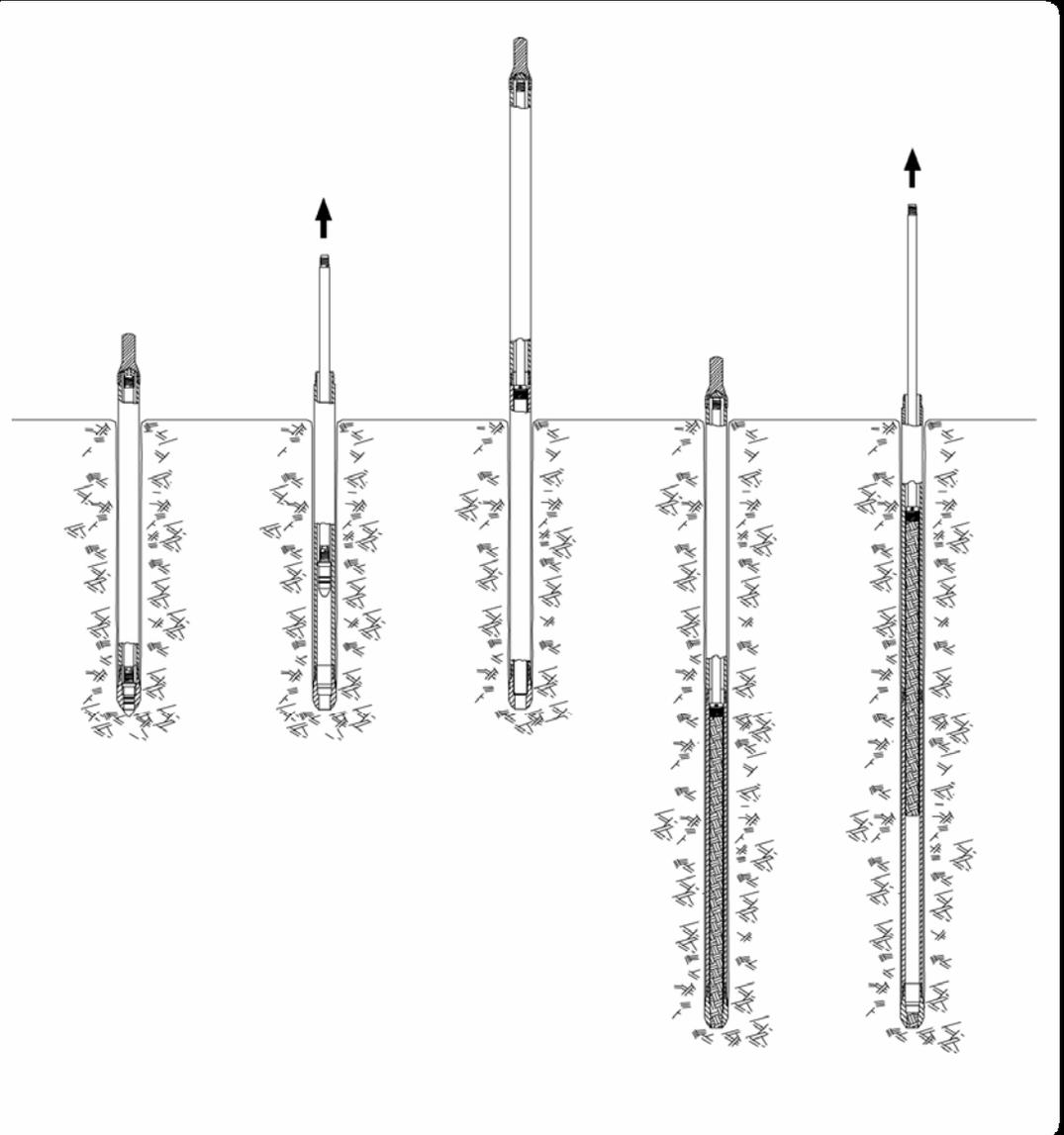
The inner rod and liner are then retrieved from the outer casing.



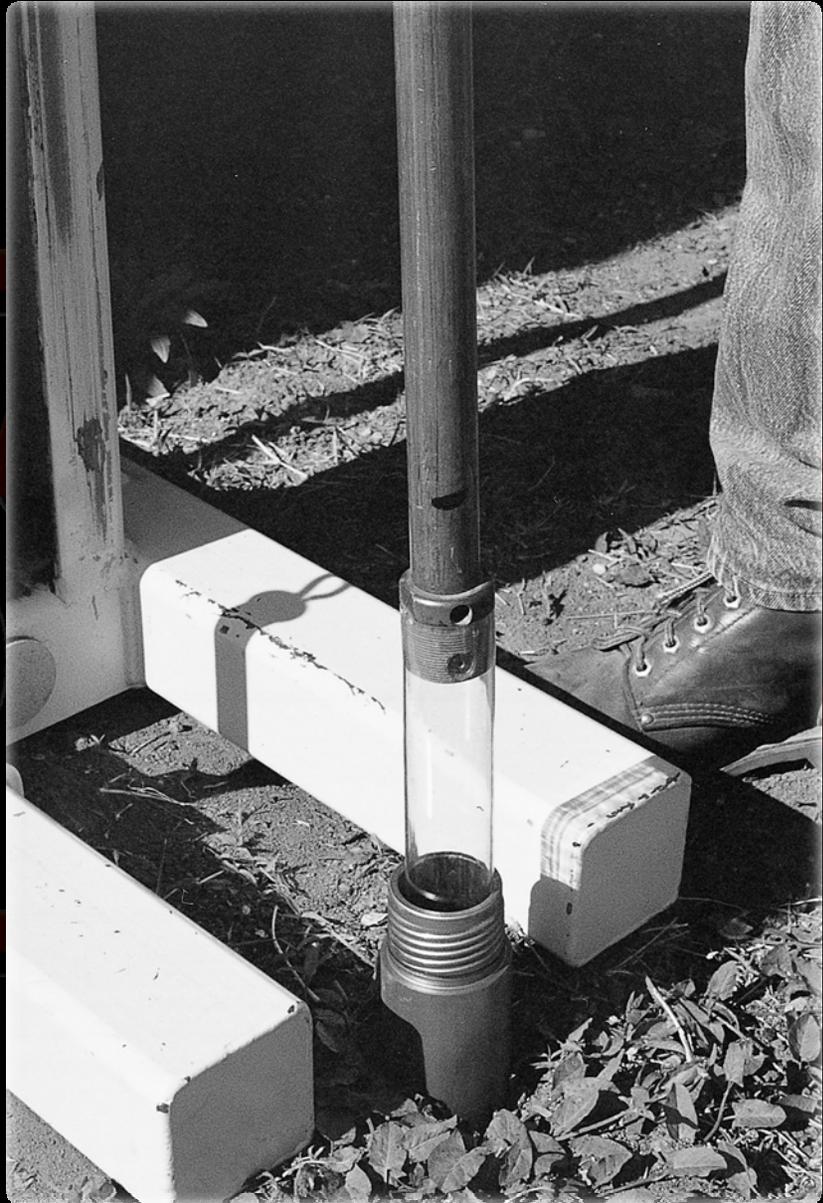
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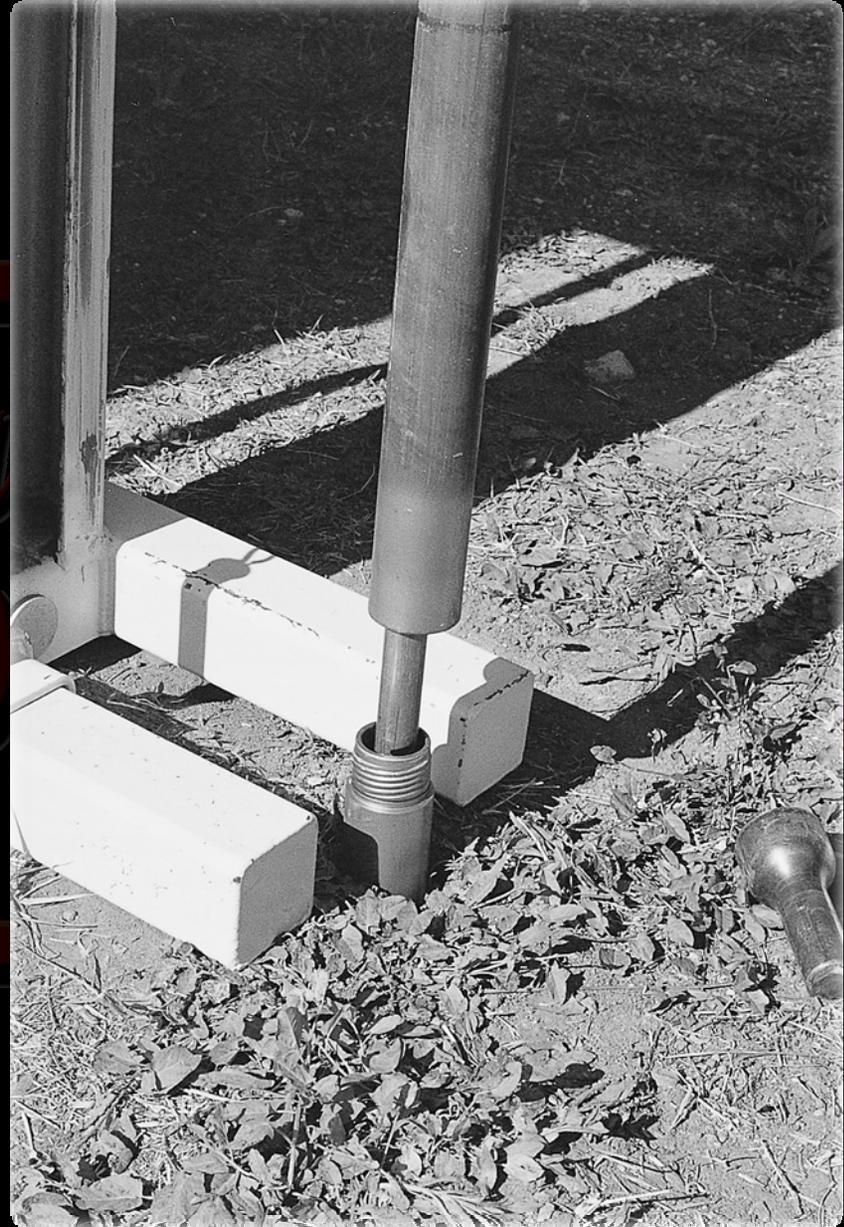
At this point, you
have a cased
hole with no
slough.



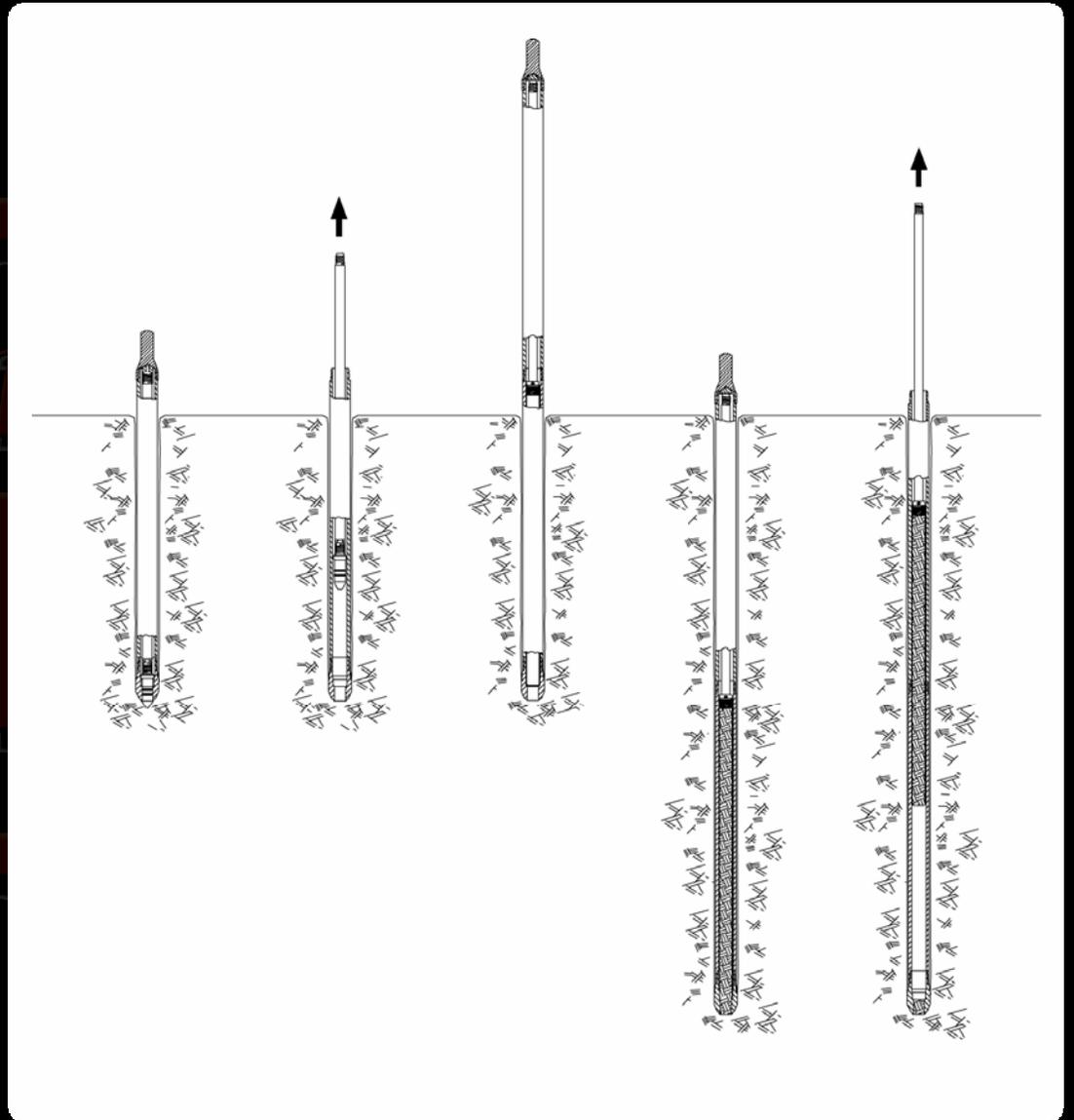
You could do continuous core sampling at this time, by sending down a new liner attached to the inner rods.



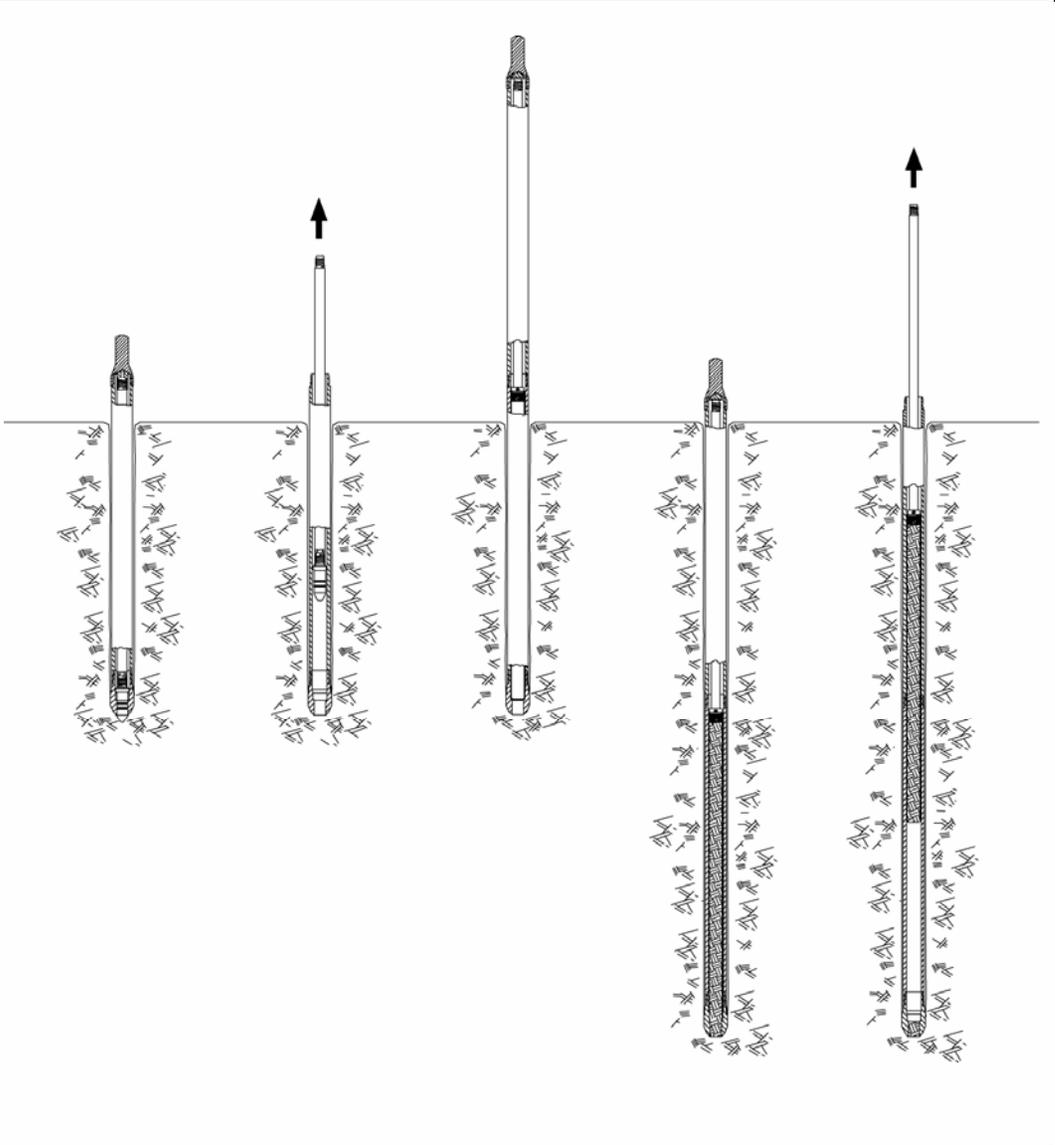
Or you could send down the solid point attached to the inner rods and drive to a new interval for another discrete sample.



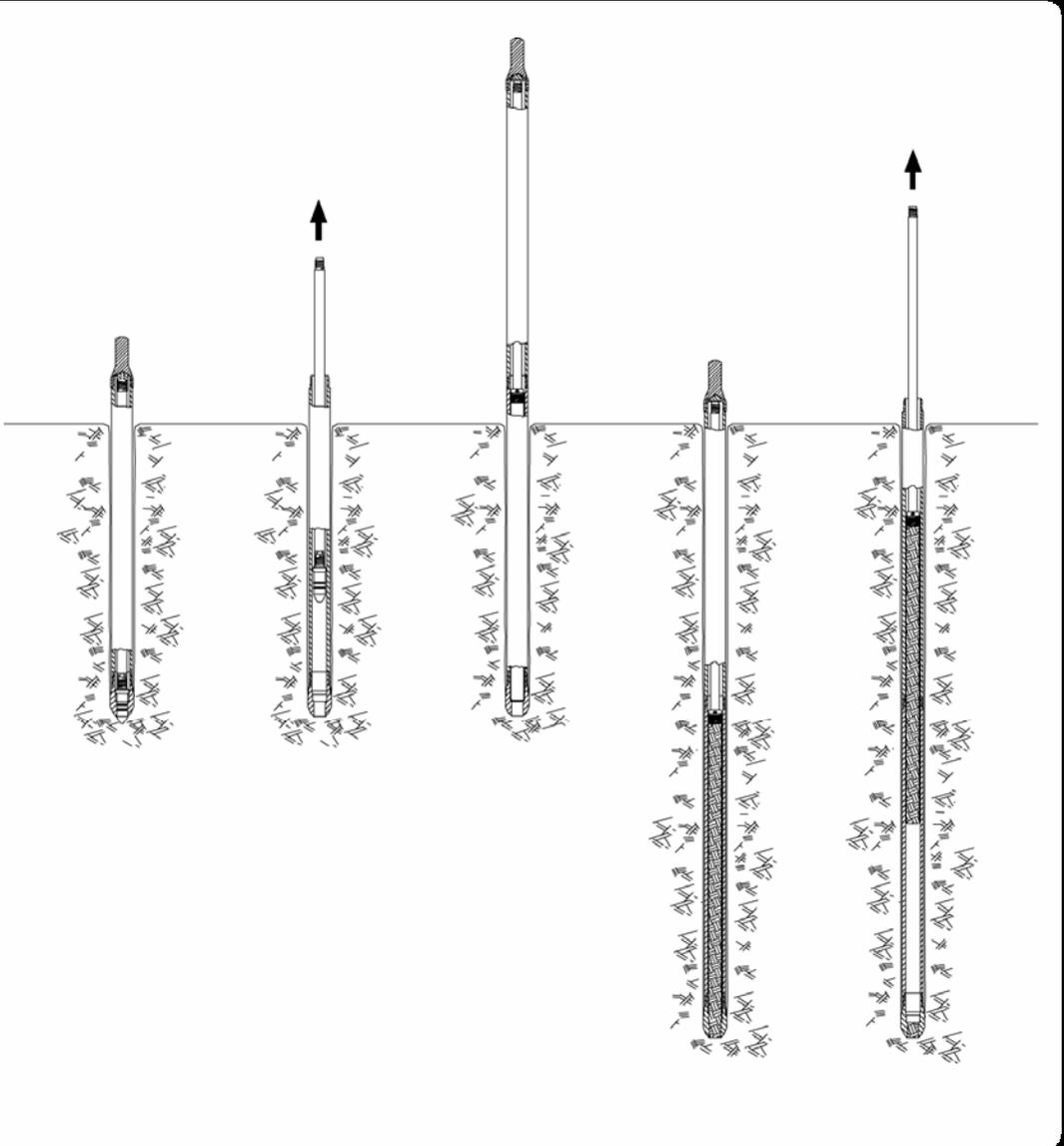
Another option you have with the DT22 System, is the ability to install a Geoprobe® Prepacked Screen Well during retrieval.



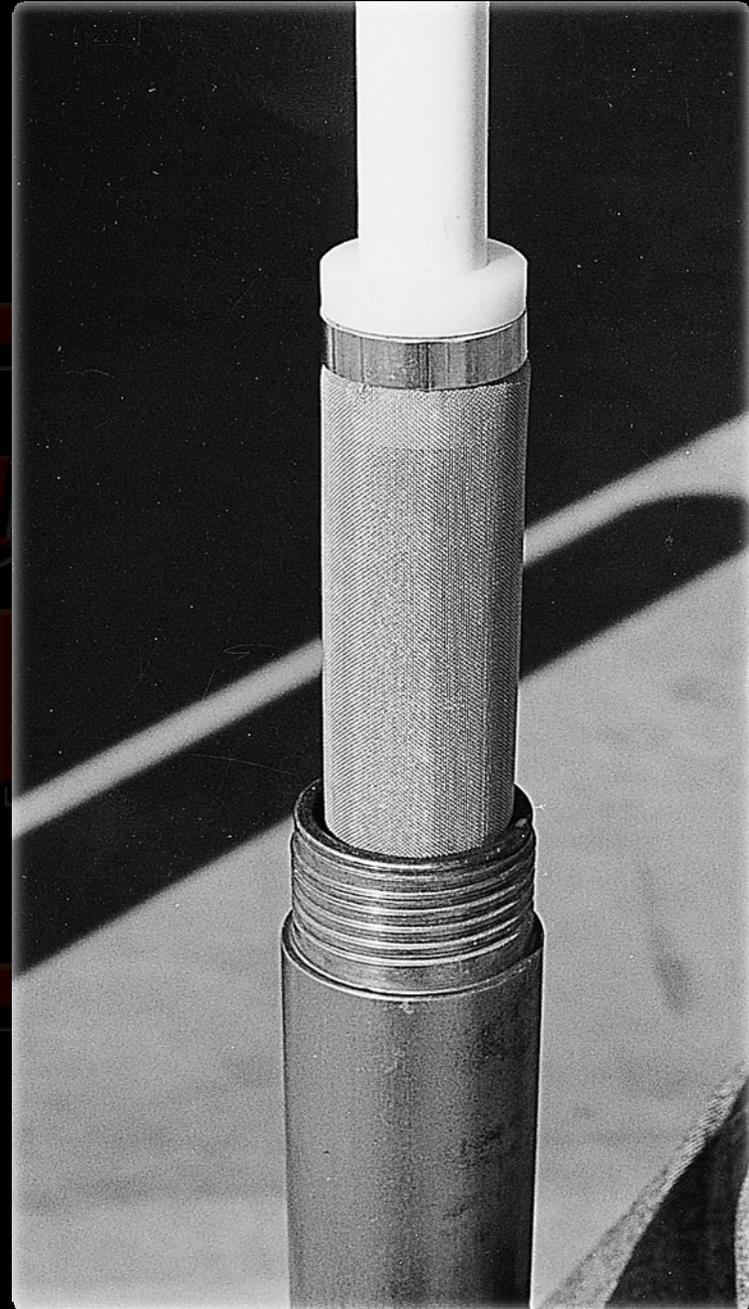
An expendable shoe holder and expendable shoe allow the operator to collect soil cores as casing is driven to depth.



When sampling is complete, the inner rods are removed.



This leaves an open casing through which a set of prepacked screens is lowered on the leading end of a PVC riser string.







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Geoprobe[®] Systems



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Geoprobe[®] Systems

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