



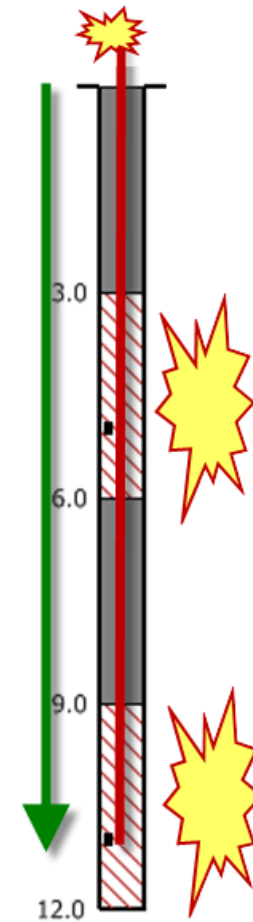
**SHOTPlus™**

SHOTPlus Standard  
Initiation Design with Detonating Cord

July 2017

# DOWNLINE OPTION

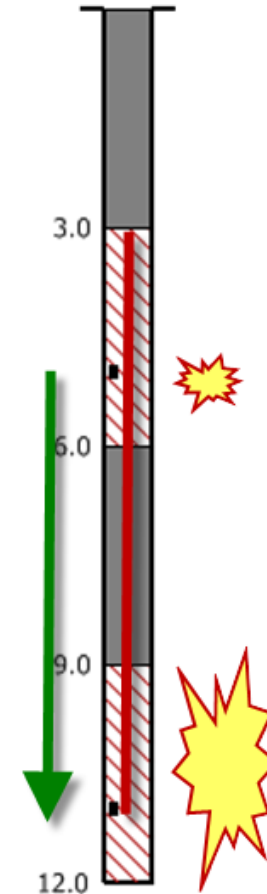
- Initiation from blasthole collar
- Cord directly initiates explosive decks with no delay
- Used for high energy cord and cord sensitive explosives



# IN-HOLE TRACE OPTIONS

## Top Down

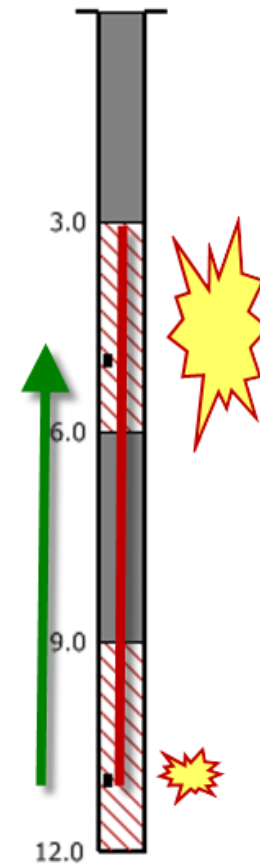
- Initiation of top deck by a delay detonator
- Cord initiates lower decks from top down
- Used for tracing of blastholes with high energy cord and cord sensitive explosives



# IN-HOLE TRACE OPTIONS

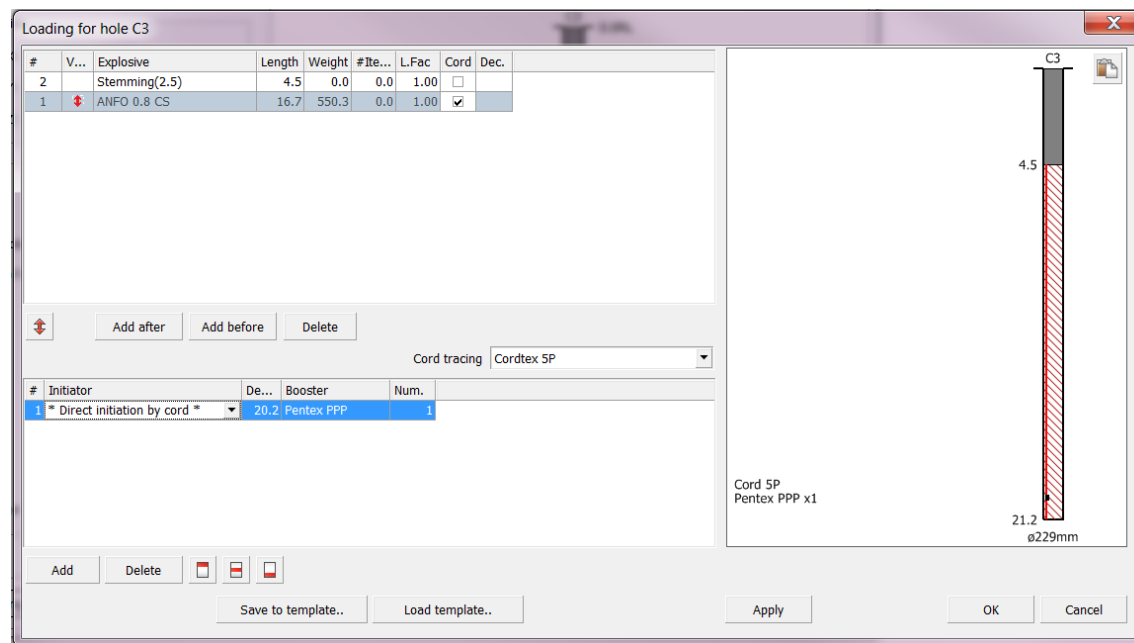
## Bottom up

- Initiation of lower deck by a delay detonator
- Cord initiates upper decks from bottom up
- Used for tracing of blastholes with high energy cord and cord sensitive explosives



# TRACING OPTIONS IN LOADING

- **Cord tracing** specifies **cord type** and turns on **deck tick box**
- Deck tick box specifies which **decks** are traced
- \*Direct initiation by cord\* specifies cord behaviour to directly initiate explosive column



# DIRECT CORD INITIATION

- Tick the Cord tracing option for all the decks to be directly initiated cord.

Loading for hole C3

#	V...	Explosive	Length	Weight	#It...	L.Fac	Cord	Dec.
2		Stemming(2.5)	4.5	0.0	0.0	1.00	<input checked="" type="checkbox"/>	
1	↓	ANFO 0.8 CS	16.7	550.3	0.0	1.00	<input checked="" type="checkbox"/>	

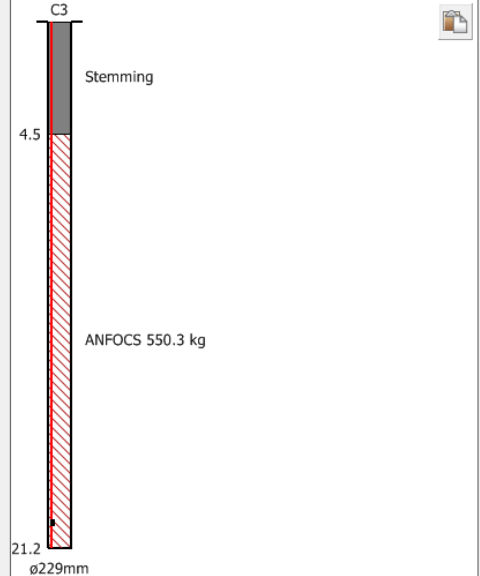
↑ Add after Add before Delete

Cord tracing Cordtex 5P

#	Initiator	De...	Booster	Num.
1	* Direct initiation by cord *	20.2	Pentex PPP	1

Add Delete

Save to template.. Load template.. Apply OK Cancel



C3

Stemming

4.5

ANFOCS 550.3 kg

21.2

ø229mm

# GENERAL RULES

- **Initiation** point needs to be specified
- Cord will **start** from this position if '**full deck**' is not ticked

Loading for hole C3

#	V...	Explosive	Length	Weight	#Ite...	L.Fac	Cord
2		Stemming(2.5)	4.5	0.0	0.0	1.00	<input type="checkbox"/>
1	↓	ANFO 0.8 CS	16.7	550.3	0.0	1.00	<input checked="" type="checkbox"/>

Cord tracing < No cord tracing >

#	Initiator	Depth	Booster	Num.
1	Exel MS (Millisecond det) ( 800ms)#17	18.0	Pentex PPP	1

MS 800ms 24m  
Pentex PPP x1

C3  
 4.5  
 21.2  
 ø229mm

# GENERAL RULES

- Cord **stops** at specified **depth** if full deck is not ticked

Loading for hole C3

#	V...	Explosive	Length	Weight	#It...	L.Fac	Cord	Dec.
4		Stemming(2.5)	4.5	0.0	0.0	1.00	<input type="checkbox"/>	
3		ANFO	4.0	135.1	0.0	1.00	<input type="checkbox"/>	
2		Stemming(2.5)	3.0	0.0	0.0	1.00	<input checked="" type="checkbox"/>	
1	↓	ANFO 0.8 CS	9.7	319.6	0.0	1.00	<input checked="" type="checkbox"/>	

↓ Add after Add before Delete

Cord tracing Cordtex SP

#	Initiator	Depth	Booster	Num.
2	* Direct initiation by cord *	6.0	Pentex PPP	1
1	Exel MS (Millisecond det) ( 800ms)#17	19.3	Pentex PPP	1

Add Delete

Save to template.. Load template.. Apply OK Cancel

C3

Cord init.  
Pentex PPP x1

4.5

8.5

11.5

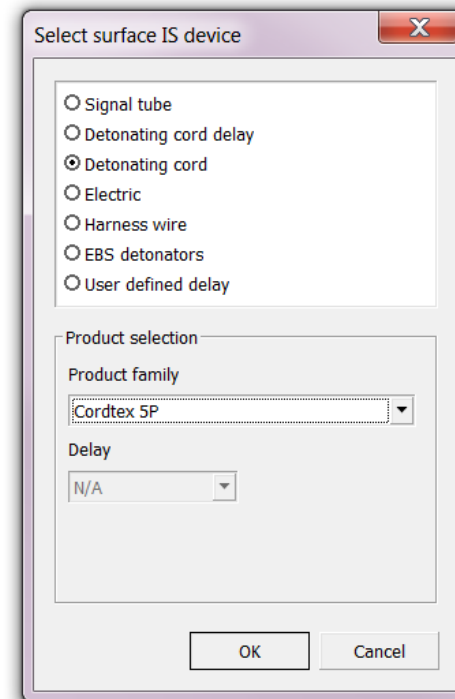
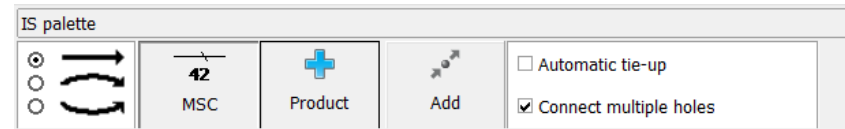
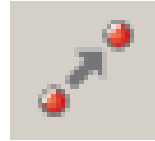
21.2  
ø229mm

MS 800ms 24m  
Pentex PPP x1



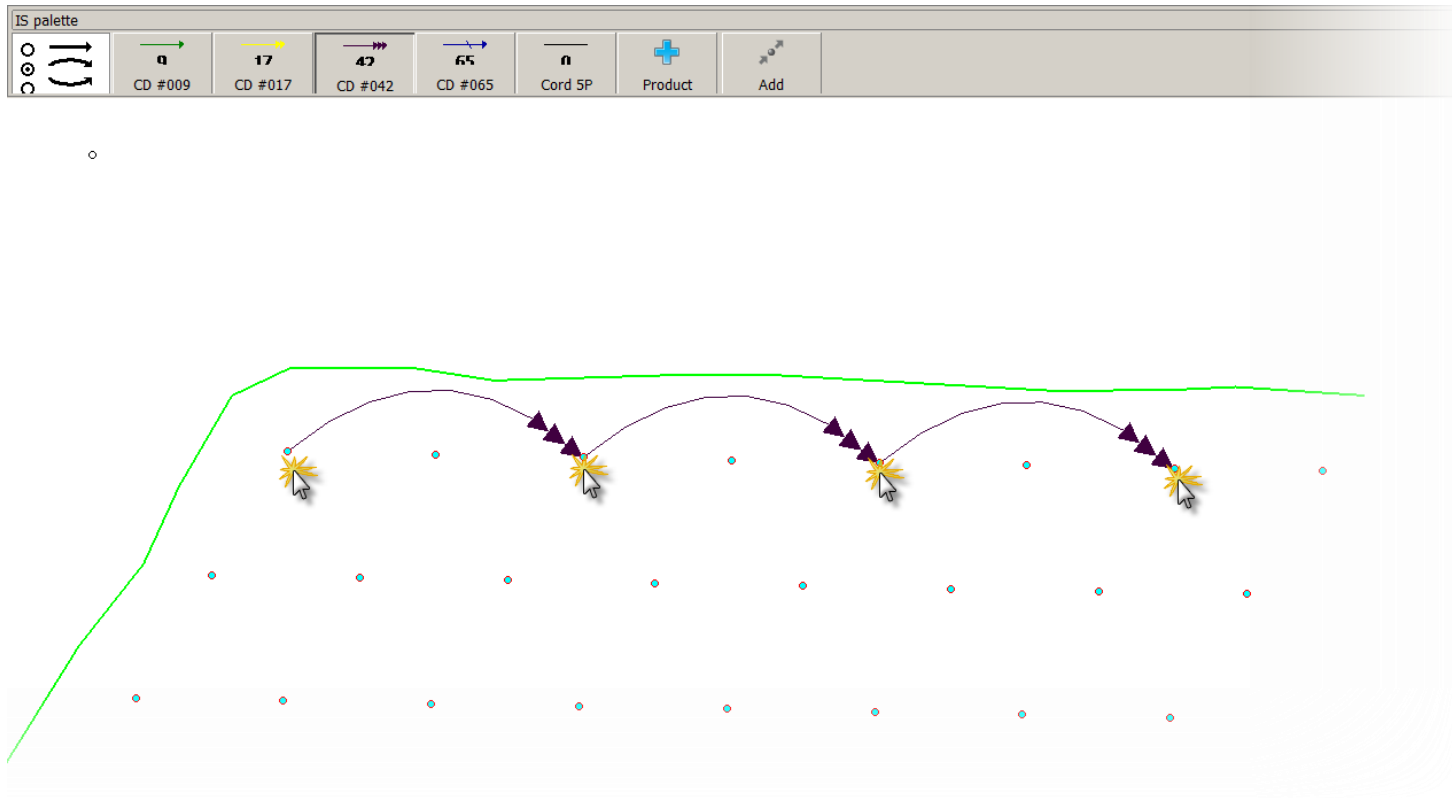
# SURFACE HOOK UP

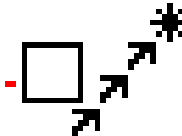
- Surface hook-up is performed with the Tie Tool
- Select cord products from the Tie Palette

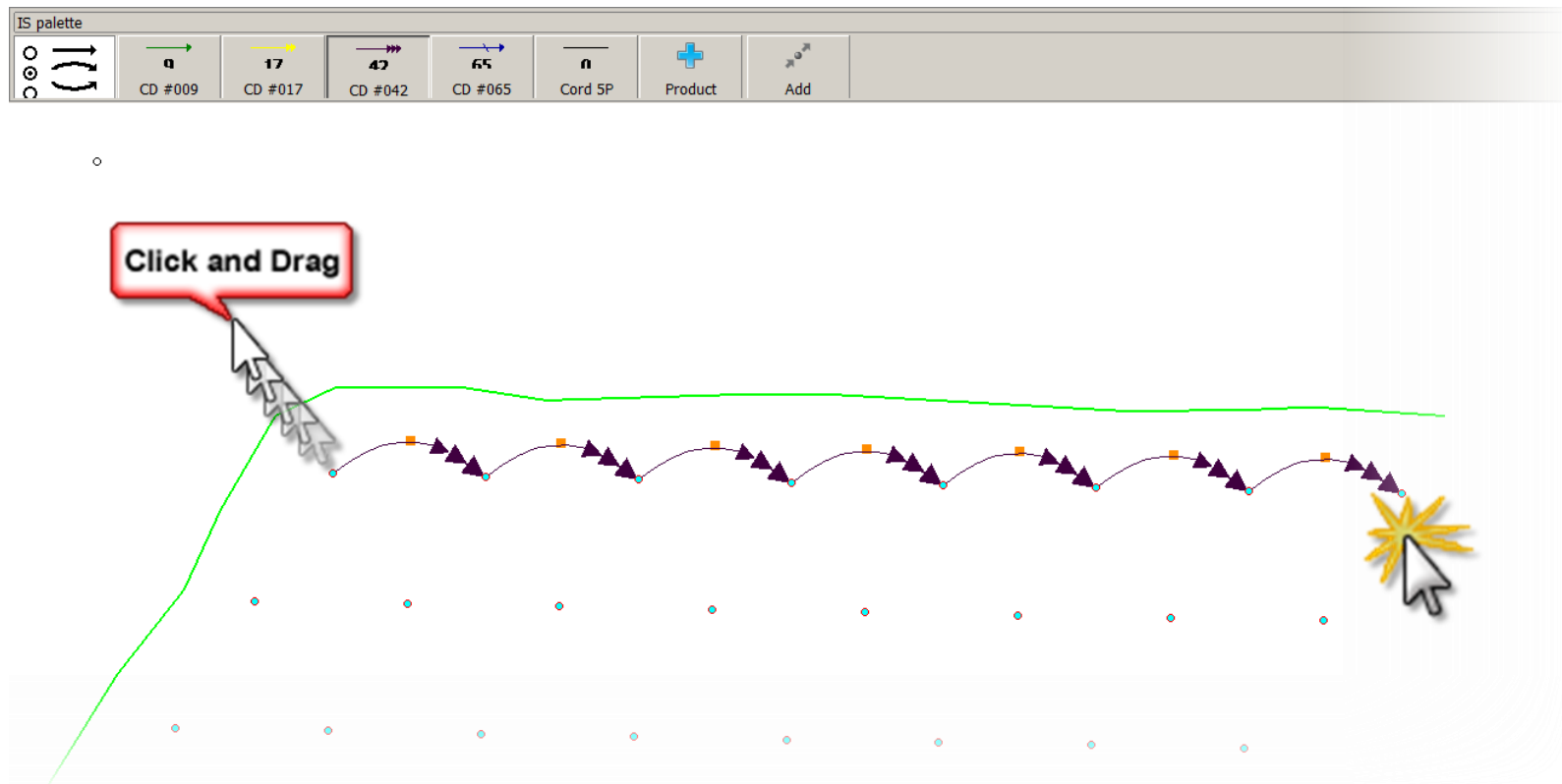


C2

- Applying ties – Point to Point 



- Applying ties – Row tie 



- Search radius for hook-up of non-aligned or V-echelon rows

