

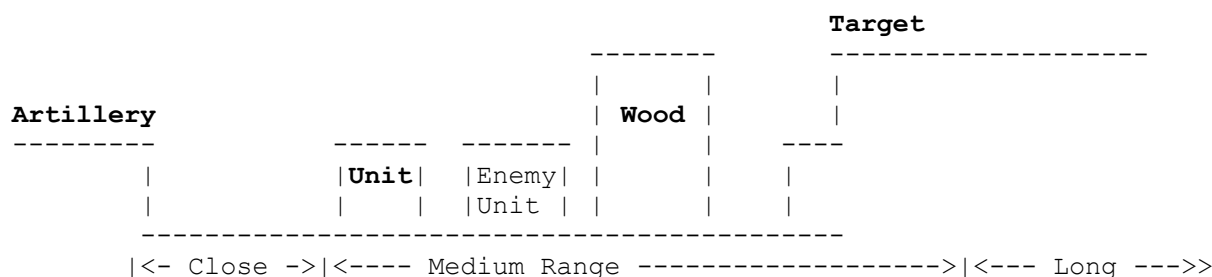


### Effect of terrain features:

All units, mounted, foot, artillery or command, are deemed to be one level high. Otherwise, the height of all terrain features must be agreed to by the players before the game. For example, woods could be two or three levels high, hills two, three or four levels high, a village one level high, hedge rows zero levels high, etc.

### An example:

A friendly artillery unit on a one level contour wishes to fire overhead at an enemy target on a two level hill opposite. A quick check of the artillery unit's zone of fire reveals that there is a friendly foot unit, an enemy foot unit and a small wooded area in the artillery unit's zone of fire thus:



### Effect of units in-between:

- A friendly artillery unit can only fire over a friendly unit if that **friendly unit is more than 9 cm away from the friendly artillery firing**
- A friendly artillery unit can only fire over a friendly unit if that **friendly unit is more than 9 cm away from the enemy target unit being fired at**
- A friendly artillery unit **can fire over any enemy unit at any time**

Continuing the above example, a quick check is made and it is found that the friendly unit in-between is more than 9 cm away from the friendly artillery unit wishing to fire, and that same friendly unit in-between is more than 9 cm away from the intended enemy target. The enemy unit in-between can be fired over at any time.

### Effect of the contours on which the artillery and target are standing:

- The contour on which a **friendly artillery unit is standing** only counts for a **depressed shot** if that **artillery unit is more than 2 cm** away from the edge of the contour being shot over. If less than 2 cm from the edge being shot over, then the contour does not affect the shot
- The contour on which a **friendly artillery unit is standing** has no affect on a **level shot or an elevated shot**
- The contour on which an **enemy target unit is standing** only counts for an **elevated shot** if the **target unit is more than 2 cm** away from the edge of the contour being shot over. If less than 2 cm from the edge of the contour being shot over, then the contour does not affect the shot
- The contour on which an **enemy target unit is standing** has no affect on a **level shot or a depressed shot**

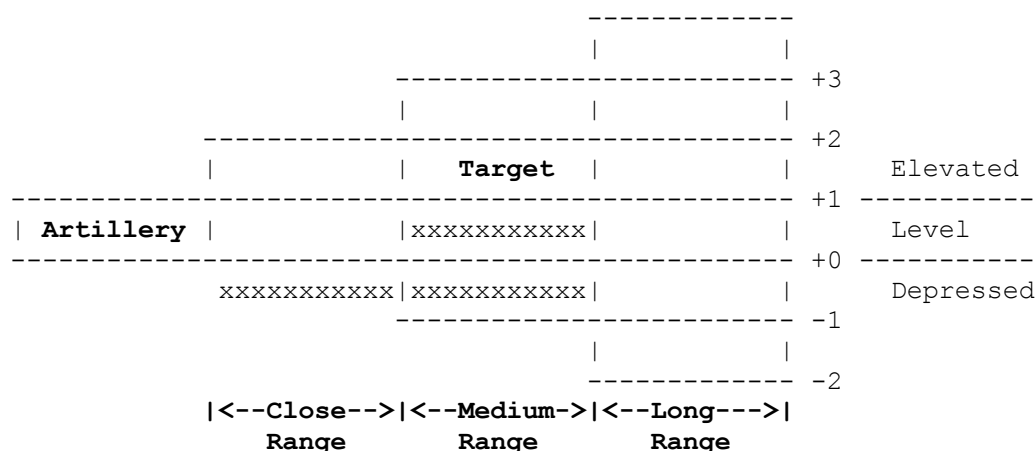
Continuing the example of an elevated shot above, a quick check is made and it is found that the enemy target unit is less than 2 cm from the edge of the contour on which it is standing. Therefore, that contour does not count for an elevated shot.

### Using the overhead fire diagram:

First, the **top** of any unit and/or terrain feature in-between the artillery firing and the target is determined thus:

- 1) The friendly unit in-between is one level high but is standing one level lower than the artillery. Thus, the **top** of the unit is at the same level as the artillery, i.e. level +0
- 2) The enemy unit in-between is one level high but is standing one level lower than the artillery. Thus, the **top** of the unit is at the same level as the artillery, i.e. level +0
- 3) The small wood in-between is two levels high but is standing one level lower than the artillery. Thus, the **top** of the small wood is one level higher than the artillery, i.e. level +1
- 4) The contour on which the target is standing is two levels high but is only one level higher than the artillery. Thus, the **top** of the contour is one level higher than the artillery, i.e. level +1. However, as noted, this contour does not count for overhead fire purposes.

The **top** of these units and features are noted on the overhead firing diagram thus (xxxxxxxxxxxx) :



### Step 4

Then, to determine whether the target is an eligible target or not, the player must trace a line **from** the **artillery box** through various boxes **into** the **target box** where the target is standing thus:

- 1) The player must first trace a number of boxes **horizontally only, then,**
- 2) The player must trace a line number of boxes **diagonally only**

When tracing a line diagonally:

- A line can **only** then be traced **diagonally up** through the boxes, **or,**
- A line can **only** then be traced **diagonally down** through the boxes

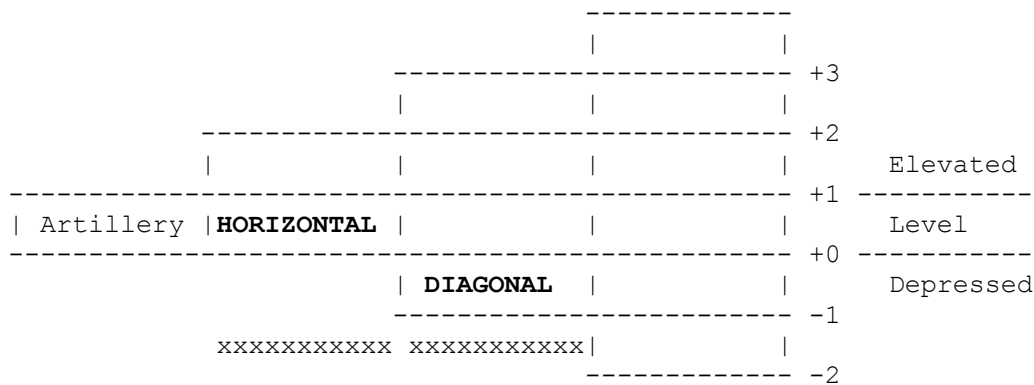
When tracing a line:

- A line **cannot be traced** into or through any box that is obscured by other units and/or terrain features (those previously noted by xxxxxxxxxxxx on the diagram)

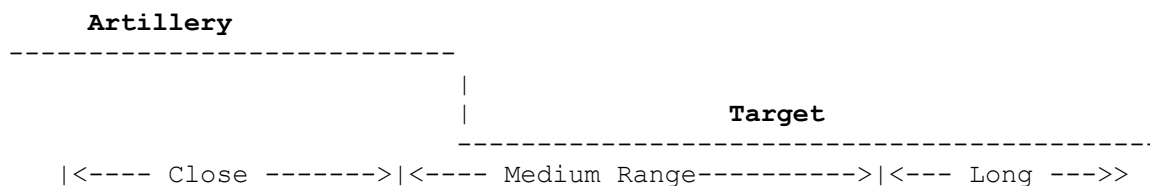
The target is an **eligible target** for overhead fire if such a line can be traced from the artillery box into the target's box in the manner described above.

Continuing the previous example, the player traces a line one box horizontally first, and then traces a line diagonally up through two boxes as shown on the diagram below:



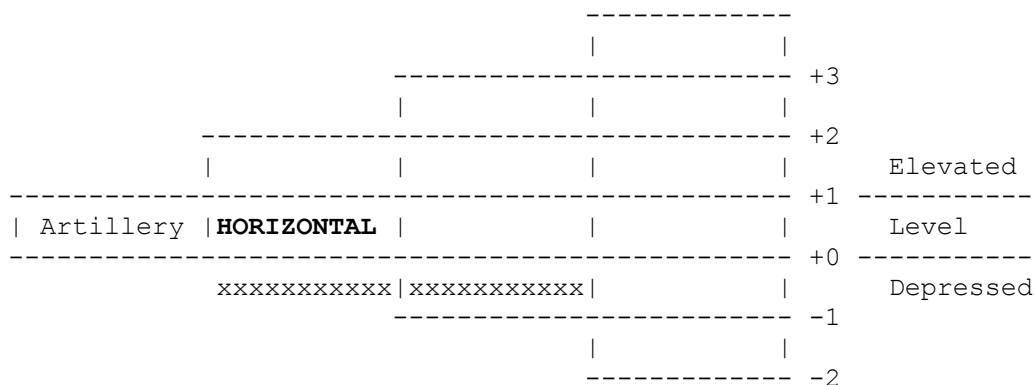


Another example: A friendly artillery unit wishes to fire at an enemy target from a hill thus:



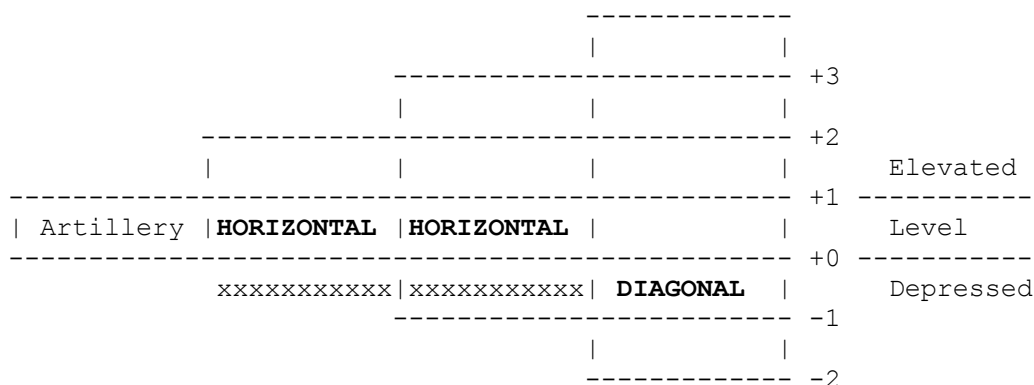
First: The target is lower than the firer thus the shot is a medium range *depressed* shot.

Next: A check is made and it is found that the artillery firing is over 2 cm from the edge being shot over. Thus, the contour level *counts* for firing purposes. The contour on which the friendly artillery is standing is both at short range *and* at medium range. The top of this contour is at level 0, and is noted on the diagram thus (xxxxxxxxxxxx):

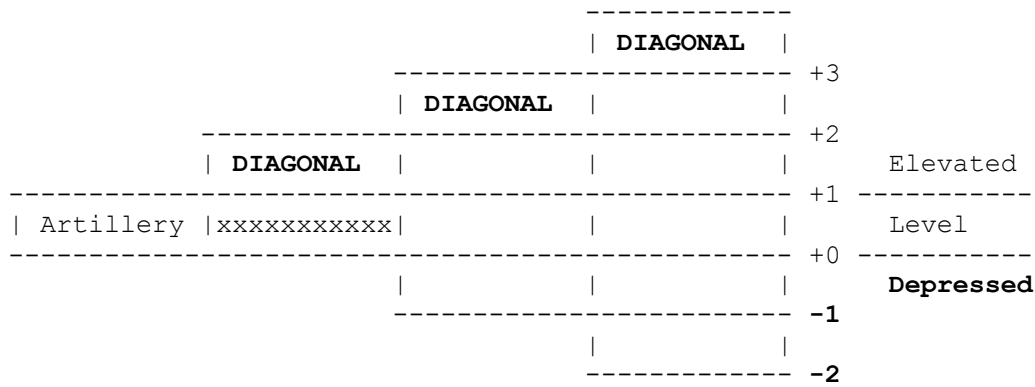


Next: The artillery can trace a line one box horizontally, but no boxes diagonally down at medium range as shown. Thus, the target unit is **obscured by the contour** and so the artillery cannot fire at this target.

However, if the artillery unit moved back to take a long range shot, then the target could be hit because a horizontal line and then a diagonally down line can be traced to level -1 and long range thus:



Another example: If an artillery unit had a one level high terrain feature at close range, then that artillery unit could only fire overhead at target that is two levels higher at medium range or three levels higher at long range thus:



**Finally**

I hope this all makes sense. Remember, these are only guidelines. If you don't like them then don't use them – make up your own.

*Trevor Raymond*

***Mini-Nap 2: Artillery Overhead Fire Guidelines***

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(Exodus 20:15 - "Thou shall not steal.")