

# THE AUSTIN ADVANTAGE

STRATEGIC BLASTING  
FOR CONVEYOR  
INSTALLATION 50 FEET  
FROM PLANT



## GENERAL INFORMATION

**Location:** Eagle Materials Located in Battletown, Kentucky

**Industry:** Surface Aggergate Mine

**Products Used:** E\*STAR Dets, Hydromite 4100S , Eagle 340 Cast Boosters

**Project Lead:** George King Technical Rep

**Author:** Dirk Carolan, Technial Services Rep

## THE GOALS

1. Don't hit the plant
2. Do the project in one blast

## THE HISTORY

Austin Powder has a long history of working with Eagle Materials at this Quarry.



## CUSTOMER CHALLENGE

The company could not move the plant and asked Austin Powder to blast a 50' x 80' slot 45' deep. The slot is for a new conveyor reaching up from the lower bench. Part of the plant was moved but still required the blast to be 50ft from the remainder of the plant.

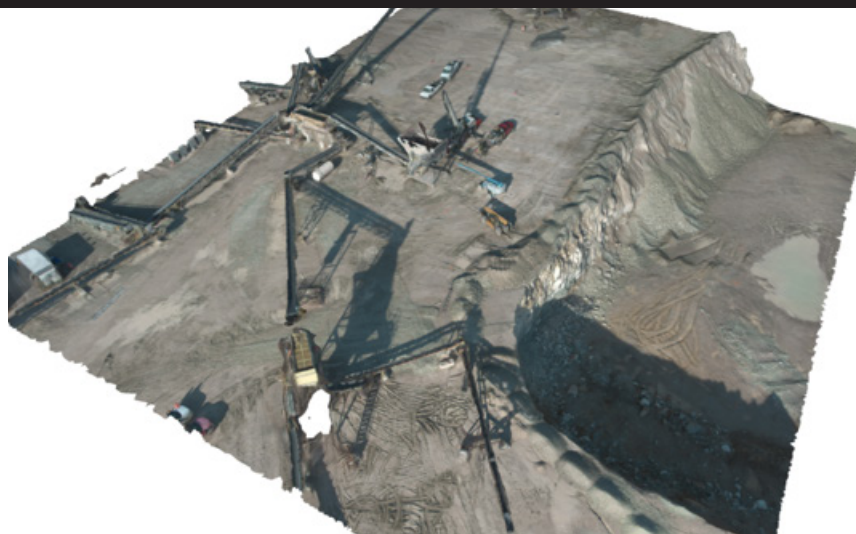
## THE AUSTIN SOLUTION

George King, Technical Services Representative, started with a 3D model of the bench with the plant in it. He then looked at a hole diameter that the drilling contractor could drill. From there, he determined a pattern of a 10 x 10 with holes ranging from 7 degrees on the sides to vertical in the center. The next step was a Risk Assessment of the job. All parties agreed on the risk, and a plan of action was created.

The blast was designed in Paradigm and staked out using RTK GPS. Once the pattern was drilled, it was surveyed a second time for drilled position and boretraked for deviation. A load plan was designed based on the drill log and actual hole data. Part of the Risk Assessment was that the blast would be covered or matted with heavy screenings to help hold the blast down.

## THE OUTCOME

The blast results were better than the company could have hoped for. All goals were met and the plant was intact.



**AUSTIN POWDER**