

PHILLIPS COUNTY LANDFILL

Phillips County, Colorado
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Problem Statement:

In 2004 we upgraded from burning trash to our new bailing system. We needed an efficient way to haul our bails to the cell.

Discussion of Solution:

We discussed whether or not to use a truck with its own hydraulics or a trailer with a loader. We decided on a trailer as it would be more efficient in our application. The loader hauls the trailer to the cell, dumps the trailer, unhooks and stacks the bails all in one trip. The operator never has to leave the cab. To make it most efficient we built two trailers, one is being filled while the other is being dumped. This way the bailer never has to shut down.

Labor, Equipment, & Materials Used:

Two landfill employees

Normal shop tools and welder

We stripped down the old burner and used 65% of the metal to build the trailer frames (two trailers). We used two old truck axles for the main wheels. The only money spent was on the two small wheels and 35% of the metal was purchased.

Cost:

In the two trailers was \$2,000 in materials and about \$1,800 in labor.

Savings & Benefits:

Materials, labor, and engineering of the two trailers saved \$4,000 per trailer. By using the loader and trailers together we are saving more than 50% in haul time. We are saving in down time with the bailer. There is only one piece of equipment to maintain. Fuel cost is cut in half because trips are cut in half. Operation can be run efficiently with one person when necessary.





HAULING BAILS



STACKING BAILS