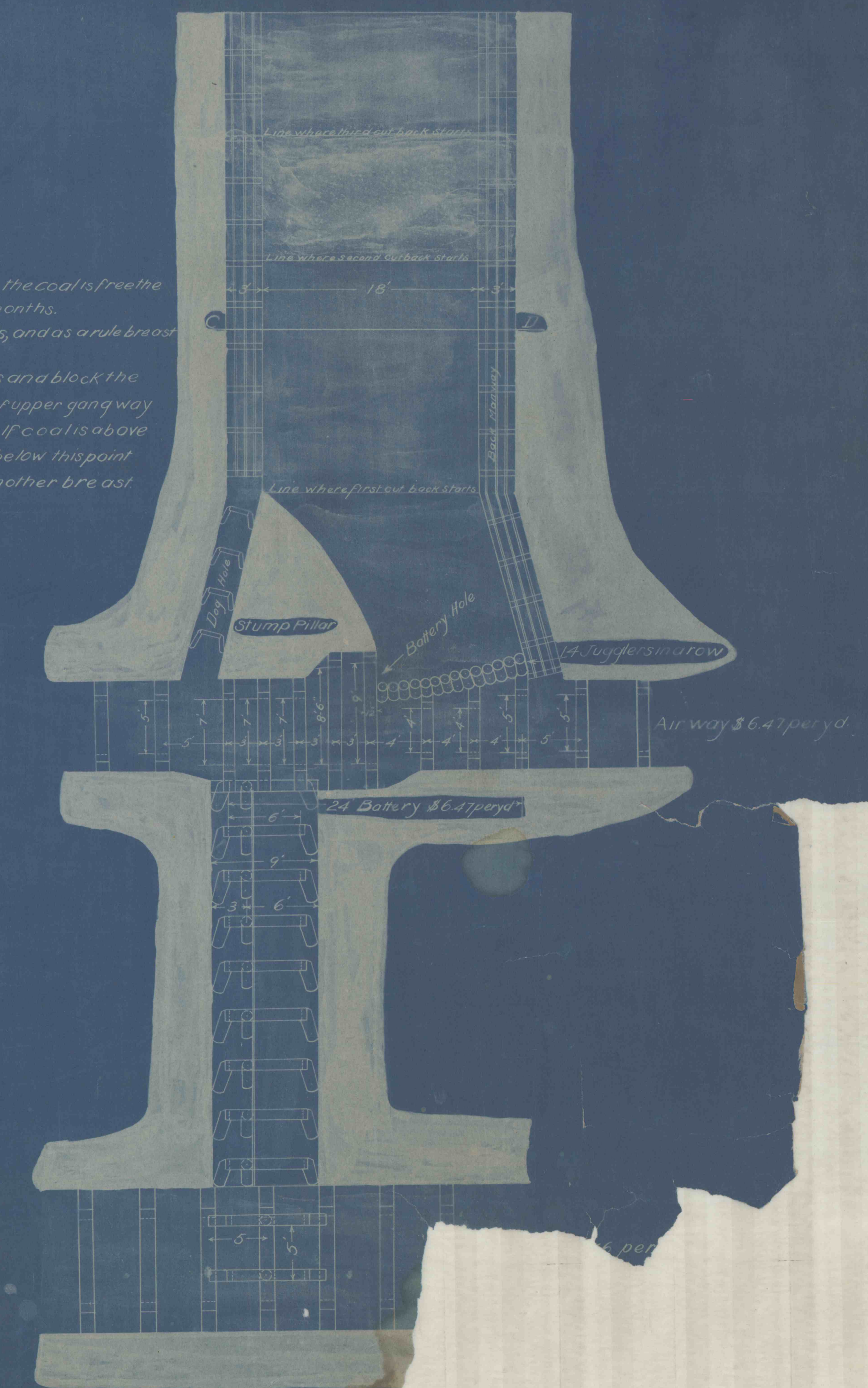
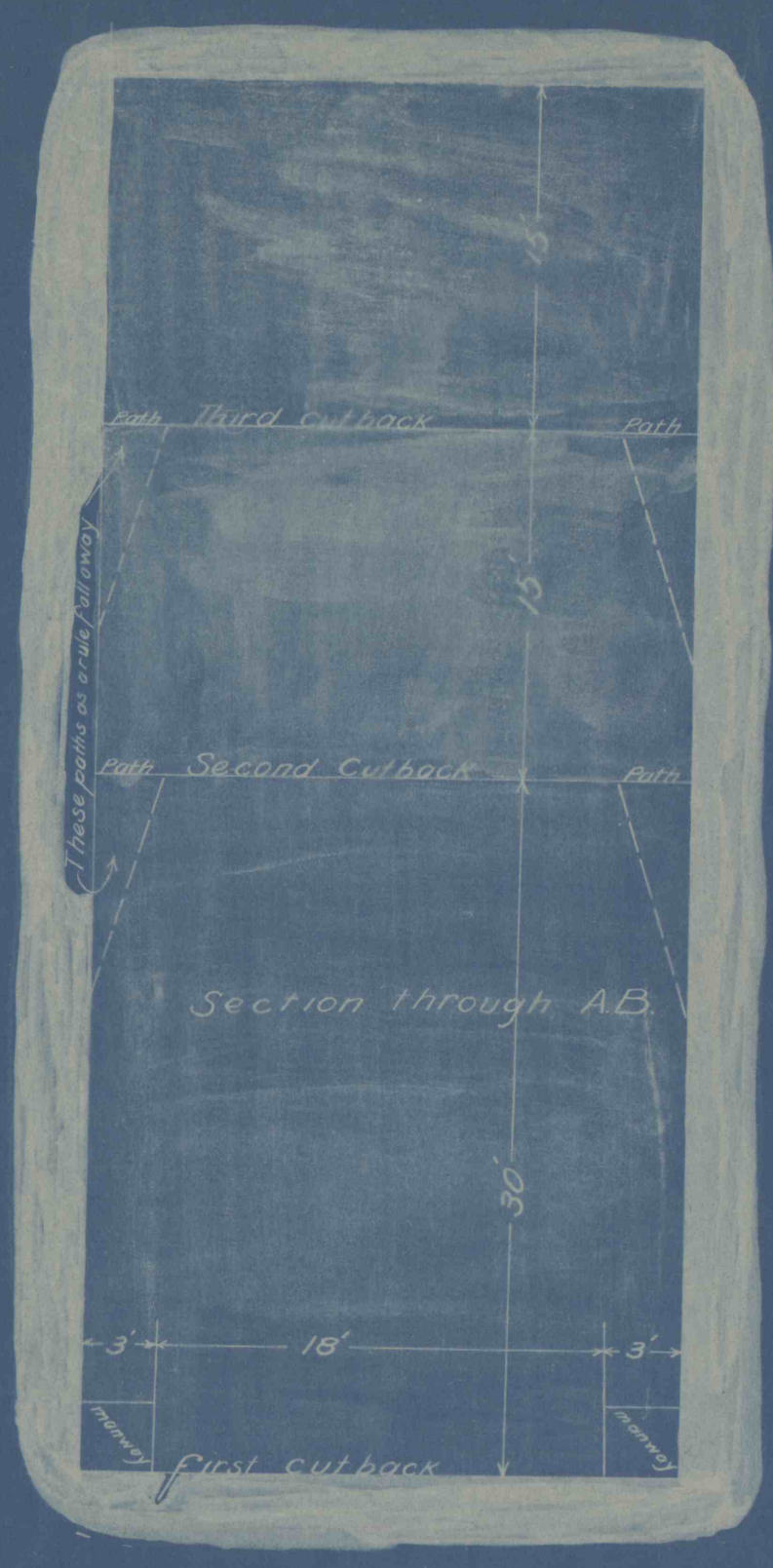




Plan Showing Cut Back
 IN NO. 62 BREAST
 East Mammoth Vein No. 10 Shaft
 Scale 1/4" = 1' Oct 11th. 09
 W. B. Richards Eng.

Red — Shows coal obtained from first operation
 Blue — Shows coal obtained from second operation and first cut back
 Brown — Shows coal obtained from third operation and second cut back
 Green — Shows coal obtained from fourth operation and third cut back



At 21' above the Battery first cut back is made. Where the coal is free the breast runs, and they sometimes load from them for six months. Where coal is hard have to pull in about three cut backs, and as a rule breast usually run after 3rd cut back. When all the coal is loaded from breast and top rock falls and block the battery. A chute is driven up in each rib, to within 50' of upper gang way. At this point a heading is driven to connect next chute. If coal is above this point a battery is put in and a breast opened. If coal is below this point come down 50', and put in a battery and open another breast. This system is continued until all the coal is mined out.