Mine Bell Signs

by Ted Bobrink

Bell signals have been used in shaft mining since the mid-1800's. Anv mine worked from a vertical or inclined shaft used bell signals to communicate with the hoist engineer on top. Bell signals were used to lift or lower miners, lift ore, and move material to and from the surface. The first mine bell signal signs were made of wood, but probably did not last long in a wet mine. Porcelainized steel was later used as well as painted tin until the 1920's when cloth and paper became common.

Early mine bell signs are very rare and highly prized. Condition is not a prime factor because they were used in harsh environments. Porelain signs command the highest prices followed by tin, and then cloth or paper.

Each state had its own set of signal rules so the signs may vary considerably. I have found that bell signs from Colorado. Arizona, Montana, California, and Nevada tend to be the most common (in order). Some signs will be found with the name of the state mine inspector printed at the bottom. The name can be used to find out the approximate date of the sign.

HOISTING & STATION SEALS AT ONE IN SHAFT SOUTH EUREKA MINING CO.

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BELL TO HOIST SIDE
          LIVER
           STOP
                     IF IN MOTION.
                    WITH ORE OR WASTE FROM CHUTE.
          HOIST
 & I BELL TO HOIST SKIP WITH HEN RUN SLOWER THAN WITH ORE.
 & 3 & | BELL TO HOIST SKIP VERY SLOW
 £3 £ 2
                LOWER
                            TO NEXT LEVEL
20505
                            TWO LEVELS & SCT.
                             FROM STATION TO CHUTE
                HOIST
                             TO NEXT LEVEL OR FROM CHUTE TO STATION
25251
                             TWO LEVELS & SCT.
 9 | 8 |
                             TO THE NEXT CHUTE & SCT.
                LOWER
              READY TO BLAST. ENGINEER MUST SHAKE SHIP OR BUCKET
TO INDICATE THAT HE IS READY TO HOIST WHEN GIVEN THE SIGNAL
1200 LEVEL 3 & 3 BELLS
                            2400 - IST. WHIZE LEVEL 5 & 4 BELLS
1300
             384
                            2600 - 2ng.
                                                   5 & 5
1500
             483
                            2800 - 3es.
1700
                            3000 - 4TM. ..
1800
             4 & 5
                            3200 - 5 m.
                                                   5 . 8
 000
             5 & 1
                             3400 - 6TM.
2000
             5 . 2
                             3600 - 7TM.
2200
CALLING THE DIFFERENT LEVELS BY TELEPHONE WILL BE RUNG AS
THE LEVELS ARE INDICATED ABOVE, FOR EXAMPLE (1200 LEVEL)
3 & 3 BELLS ON THE TELEPHONE WILL CALL THE 1200 LEVEL.
SUPERINTENDENTS OFFICE I LONG & I SHORT BELL
MASTER MECHANIC ...
ENGINEER
                           2
 SAW-MILL
 SIGPTENDER
 SOUTH EURENA MING. CO.
                                           WM H. SCHMAL.
     SUTTER CREEK. CAL.
                                              SUPERMIENDENT.
            MARCH 151. 1916.
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