

TELEPHONE 869,

## MINING.

## EARLY MINING OPERATIONS ON THE COMSTOCK.

Written for the Engineering and Mining Journal by Dan do Quille. (CONCLUDED).

Tunnels also abounded in early days. They were run into the hills all over the country. Long after the sinking of round shafts was dropped the running of tunnels continued. They are to be seen of all lengths, from the more start of 10 or 20 ft., to such as are from 500 to 2,000 ft. When the big snow-storms of the winter of 1859-60 surprised the silver hunters, many of them took refuge in the tunnels they had commenced. By widening a portion of the tunnel a few feet inside of its mouth very comfortibly

quarters were made, as the ground was firm and dry. In the floors of many of these old tunnels shafts were sunk by the early prospectors, and these have cost the lives of many persons and rendered many more cripples for the remainder of their days. Persons-both mon and boys—urged on by curiosity, vonture back into the darkness of the old tunnels, and before they are aware of the presence of a shaft have made a fearful plunge of 50 or 100 ft. The discovery of persons so trappol has at times seemed almost miraculous. Several percens have been discovered by the merest chance and rescued, bittered and broken in limb, when almost at the last gash, and after they had heat all have of aver again speing the light the list gasp, and after they had lost all hope of ever again seeing the light of day.

After the first rush and excitement of prospecting was over, and the owners of mining claims settled down to the stendy work of developing the reins on which they had located, substantially timbored square shafes began to be seen, and soon all working shifts began to be mide with two or more compartments. At first there was a compartment for pumping and one for hoisting ; then soon followed three compariment shifts, two being for use in hoisting ore and waste rock. This, however, wis after steam hoisting and pumping machinery began to be set up pretty generally. The first steam machinery for hoisting and pumping wis erec'ed at the Onbir, where the first discovery of silver ore wis mide. As seen as man

The first steam machinery for hoisting and pumping wis erec of at the Ophir, where the first discovery of silver ore was mide. As soon as men from California obtained control of the mine they began to siak upon the vein, which was found to dip to the west. An incline was started which followed the dip of the vein. A donkey engine of 15 H. P. was set up at the top of the incline to do the heisting and run a pump, the column of of which was cally about four inches in diameter. To the old Gold Cañon placer miners this plant of machinery seemed very powerful, and they were never tired of admiring it. Listening to the puffing and wheezing little engine, and watching the creaking and spluttering pump, an admiring old Johnstowner one day said : "By mighty, with that air big steam ingin' these 'ere California fellers will purty soon tura old Sunrise Peak inside out. !"

The company timbered their incline in a substantial manner, I uid in it a track for lowering and hoisting ore care, and the depth being trilling, were able to bring out ore very rapidly, for they were working in the heart of the first boranzi ever opened on the Comstock. There was nothing to do but dig down the ore and shovel is into the curs. In much of the soft, decomposed silver ore one could see brightspangles of free gold. Such was much of the ore sacked for shipment.

The Mexican and other mines near the Ophie were opened by means of inclines that followed the dip of the vein, but at the Gould & Curry, where the rich ore was next found (about half a mile south of the Ophir), a tunnel 250 feet in length was run to the vein at a considerable depth beneath the croppings. Winzes were then suck upon the ore and drifts run along the vein, upon which chambers were opened in the bonance. Once the ore-chimney was found, drifts were run and winzes sunk with a tonishing rapidity. The mine was at first worked through tunnels. In all three rapidity. The mine was at first worked torough tunnels. In an three tunnels were run, the lowest being 2,000 feet long, and topping the vein at a depth of 425 feet. They did not begin sinking their first big working shaft until 1864. The Savage mine, which adjoins the Gould & Curry on the coult, was opened by means of a shaft. The bonenzi in the Gould & Curry was in the southern part of the claim, and had an inclination to the combrard, which at a depth of about 500 fr curried it into Savage ground.

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Curry was in the southern part of the claim, and had an inclination to the southward, which at a depth of about 500 fr. carried it into Savage ground. The southward pitch of the chimney being early observed, the Savage Com-rany had a pretty sure thing when they began sinking their shaft. Although they first began working the 1 de at Gold Hill by means of pits sunk in the rich, decomposed, gold-bharing quarks of the surface, they soon set to work at sinking large vertical shafts, using some power in hoist-ing and pumping. All the first engines were small, though then looked upon as being quite powerful enough for any work that would ever be done on the lode. When, in these early days, a few " cranks" talked of sinking to the depth of 1,000 feet on the lode, most mining men turned and walked away from them, not wishing to seem to countenance any such wild and away from them, not wishing to seem to countenance any such wild and ridiculous proposition.

In 1861 Superintendent Deidesheimer, of the Ophir, asked for an engine of 45 H. P., and 8-in. pump and improved hoisting apparatus. The officers of the company thought this terribly extravagant at first, and the stock-holdors said they might as well shu: down the mine at once "if all that came out of it was to go for machinery." They could not see the utility of such "tremendous power" as their superintendent said he must have. Had such michinery as the Ophir now poissasses been asked for every member of the company would have fallen in a faint at the more mention of it and its probable cost.

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