

nothing discovered, I shall sink the Winze. There is some particles of lead and blende to be seen in the Crosscut, but very little, and not a single trace of silver to be seen any where in the mine. Notwithstanding, I would still recommend, that the Sump Shaft, Winze B, and Gallery X, be sunk and driven twenty fathoms, respectively, so as to give the mine a thorough trial.

I have seventeen men working underground, one drawing wood with the horse, carpenter, smith and assistant, cook and cook's mate, are all.

The winter is very mild. The coldest day was the 22d ultimo, when the thermometer indicated 22 below zero.

#### FOURTH REPORT.

February 14th, 1849.

##### MAIN LAND.

GALLERY X.—Nearly all quartz rock, five feet thick, thinly speckled with galena, blende, iron pyrites and copper pyrites; and sometimes the spar is tingled green, blue, and red. No silver to be seen. It is extremely compact, and very full of cavities, which make it highly expensive for driving.

WINZE A.—As I intimated in my last report, as soon as the plat, &c., was complete, we commenced to sink, [as I took four men from Gallery X, and Winze B, I arranged the men in the following order—Gallery X, 4; Winze A, 6; Winze B, 6; to pursue the cavity by a gallery; two, sometimes one, has to bring firewood;] and the bottom is nearly all calcarous spar, with a little blende, and occasionally a speck of galena.

WINZE B.—This is the deepest point in all the works, and directly under from where the native silver was taken, about ten fathoms, to the south of Winze A, it is from the brace seven fathoms in depth. It has hitherto been sunk downright, and having cut the foot well, we are now sinking on the course of the lode. It is inclining westerly, (a little.) Six men sunk five feet, this last fortnight. More trap than common, and a little blende to be seen in the spars, but no silver to be seen in any part of the mine.

GALLERY PURSUING THE CAVITY.—Quartz and calcarous