

**THE MARKET AND THE MINES**

Let us hear no more of an unresponsive market. A market that will respond forty thousand dollars' worth to a bucketful of lime rock is anything but stagnant. The boom in Tintic Central this week suggested this problem: If a showing of lime adds \$40,000 to the value of a mine, what would it be worth with a showing of ore? Recent events suggest that a piece of galena no bigger than a hen's egg would put Central shares on a level with Colorado and Sioux and Iron Blossom. This is no joke. Under ordinary circumstances so much excitement over a mere geological discovery would be funny, but the circumstances in this case are extraordinary. The Tintic Central, be it known, is situated south and east of the Iron Blossom on a bed of porphyry. Porphyry, in that part of Tintic, is synonymous with poverty. The ore found has always been developed in the lime strata. A change from lime to porphyry has been regarded as fatal to the chances of the miner. The Tintic Central's porphyry bed bites into the corner of the Iron Blossom and from this expert have drawn the inference that the Iron Blossom section of the Colorado ore channel must end abruptly, or be deflected to the west, when the porphyry contact is reached. Lime in the Tintic Central shaft is a tip to the experts to revise their theories.

Reports from Tintic are to the effect that the Central passed out of the porphyry and into the lime at a depth of 430 feet. This indicates that East Tintic, instead of being divided into perpendicular zones of lime and porphyry, is a limestone basin whose hollows have been filled with masses of eruptive rock. And in a region whose lime is impregnated with metals such a condition means that the possibilities of finding ore are limited only by the thickness of the porphyry overflow. Further development at the Tintic Central may demonstrate such a geological condition and in that even the properties along the Colorado-Sioux lime belt and those to the east will look for bedded veins instead of fissures; prospecting will assume a more intelligent and definite character and the question of extra lateral rights will loom large on the horizon. Mines like the Colorado, Sioux and Iron Blossom, having the rim, or apex, of the westward curve of the lime basin, may claim the ore in that stratum as far as it dips under their east side lines.

The Nevada Consolidated, according to some statisticians, has swiped the title of the Utah Consolidated as the world's cheapest copper producer. It will be noted, however, that the Nevada company will have to introduce further economies before it will get down to the cost record made by

the Utah Consolidated in its younger days when it was marketing metal for a trifle more than five cents a pound. The Nevada Consolidated produces at a cost of 6 1/2 cents. The Utah Copper company, using similar methods but having more surface waste to contend with, is making copper for 8 1/2 cents, or thereabouts. For the present the Utah Consolidated is saying nothing. When the International smelter is finished the Consolidated may have an announcement to make.

It is good for the eyes, after dwelling long and fixedly upon the monotonous performances of the stock exchange, to turn aside and gaze for a time on the mining interests which live, move and have their being beyond the haunts of bulls and bears. There is much food for reflection in the developments which are taking place in the less known parts of the state. Poorly garrisoned as they are these outposts of industry are as necessary to the continued welfare of the mining business as the favorites of the market place. A mine to be thoroughly successful must develop a new pound of ore for every pound taken out in the process of exploitation. In like manner a mining field is a success only when it has a new producing mine ready every time an old one is worked out. It would have fared ill with Utah if it had had no Silver King to take the place of the Ontario and no Columbus Consolidated to substitute for the Emma mine. The prospectors in the younger districts of the state are preparing the reserve mines against the day when the Silver King, Columbus Consolidated and other standbys of today will be empty shells.

Some prospectors keep burrowing away silently year after year and are mentioned only casually until Fortune smiles and the record of the past is unrolled to the public gaze. But there is usually more or less periodicity about the development of new properties. For a term of months or years the shallow shafts, tunnels and trenches will mould and crumble. Then some mysterious influence stirs the moribund companies, money is forthcoming for a thousand mining projects and the hills echo again with the ring of hammer on drill and the boom of the blast. Reports published recently mark the present year as one of the fruitful ones for the prospects. It has been a long time since so much work was in progress in undeveloped fields.

One of the quiet and persistent prospects is that of the Tornado Mining company over in Basin district, Grand county. The stock is held by a few people and is not for sale. The president, M. I. Fowler, lives on the ground and goes to work every day with his miners. There is in sight on the surface a vein eight feet wide which runs as high as \$40 in gold to a ton. To reach

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