

## Volunteer Extended Consolidated

## Mathinna

The above property occupies an area of 18 acres some 60 chains south of the New Golden Gate Co's shaft and on the east side of Black Horse Gully.

After a somewhat extensive examination of the Mathinna Goldfield both on surface and underground I have come to the conclusion that there are practically parallel belts of auriferous reef-bearing country, which as a rule are very much disturbed near the surface. The reefs are consequently irregular in themselves, but once the reef channels are located there are probabilities for successive formations being found to very great depths.

The locality where this property is situated is characteristic of the field, though, no far as can be seen, the rocks adjacent to the reefs are perhaps more regular than is usually seen so near the surface. This reef has a strike of approximately SE and NW and it is in the same auriferous and continuous belt of country as the New Golden Gate Co's property. This being so, it is, I consider, an excellent prospect for the expenditure of the necessary amount of capital to thoroughly exploit the ground. I saw prospects washed from different parts of the reefs and they gave very good results indeed. The gold is somewhat fine and distributed well through the quartz and there are no complex materials to be dealt with so far as I could see.

So far as surface investigations go there is little to suggest the existence of such large bodies of quartz in the locality. Some five to six chains up the slope of the hill to the south east of the present workings a reef outcrop has been opened in several places by shafts and open trenches. It appears to have been small and not worked to any great extent nor was it traced far enough to meet with the reef now being opened up. As a matter of fact there appears to have been little or no surface indication of the spot where the reef now under notice was discovered.

Just under the surface a little above the bed of the gully a large reef formation was cut into for some 25 feet in width, not all solid quartz but all crushing material, consisting of masses of quartz and numerous spurs with slate and sandstone. This was driven across and an adit put into the hill for 50ft. Subsequently a shaft was sunk vertically for about 10ft when another more regular reef was met with underlying east and averaging 9 inches in width. At 26ft south and at this point (only some 50 ft vertically from the surface), the water was met with which accounts for the level being driven at such a shallow depth. This reef is very regular in its dip and strike and there are great probabilities of its connection with the main reef channel when seen at a greater depth. A cross cut 50ft west intersected a rubbly reef 12 ft wide which evidently is the continuation of the large reef seen at surface.

On the east of the reef a short drive was being put in and at the time of my visit quartz was showing in the bottom of the drive which promised to be of importance.

As before stated all the reefs met with showed gold and some excellent prospects obtained.

It will be seen that there are large and smaller bodies of quartz already opened up with evidence of others coming in, but what the property requires is to be equipped with a plant capable of getting to a greater depth, and whilst further developing those already at hand, to find lower reef formations. For this purpose I would suggest the advisability of sinking a shaft some little distance up the slope of the hill to the east of the present workings.

The property presents splendid facilities for economical work, and with the prospects I saw, and the favourable probabilities to follow when systematically opened up, warrants me in saying that as a surface show, it is one of the best I have seen for some time, and I hope the capital will be forthcoming to develop it.