THE ZINC AND LEAD DEPOSITS 13

of north) and crosscuts driven east and west, making a total underground footage of 1816.6 feet.

The north and south drifts are driven on the strike of a very strong vein cutting the slates at right angle to the strike and dipping 78 degrees to the west. The vein is faulted but in no place does it show any material narrowing. Several veins intersect the main trunk system and wherever sampled carry the same general zinc and lead contents. The main vein on the 100 foot level is robbed to a considerable extent of its values by leaching and I confidently look for higher values on the 200 foot The ore at the bottom of level. the main shaft shows less leaching than at the 100 foot level and the blende has a lighter color.

This development "blocked out" above the 100 foot level in two veins a large amount of ore of an average value of \$10 per ton and accounted for a very large amount of probable and possible ore. The main vein was drifted on in ore for 87G feet before turning to the east to break through to "air," and showed an average width of twelve feet of From end to end of this 870 ore. feet the ore body was continuous with here and there some very rich bodies extending over considerable areas. The average metal contents of the 870 feet together with the shaft, as proven by channel cuts. was 8 per cent metallic zinc and 4 per cent metallic lead-exclusive of the rich spots in the vein, or 13.33 1-3 per cent of 60 per cent zinc con-