GOLD-BEARING MISPICKEL VEINS OF MARMORA.

allowed 50 per cent. for depreciation in the quality of the mispickel. The following results were obtained by careful assay:

Hawkeye ore from three shafts, mixed mispiekel—Gold, \$753.48; silver, \$15.71. Total, \$769.19.

Gatliny five-acre lot.—From one shaft quartz—Gold, \$200.93; silver, \$3.14. Total, \$204.07 per ton.

Gatling Company.—From three shafts, mixed mispickel—Gold, \$351.63 ; silver, \$21.91. Total, \$373.54.

Gatling Company.-O'Neil Shaft, third vein-Gold, \$376.64; silver, \$7.85. Total, \$384.49.

Tuttle Property.—Surface quartz—Gold, \$125.48; silver, \$4.70. Total, \$130.18.

Average-First-class quartz and pure mispickel,		\$372	29	
Deduct \$ ton for gaugue in bulk, leaving .		74	46	
" I ton for inferior mispickel, leaving		37	23	
" for loss in reduction \$7 23, leaving.		30	00	
Or net yield of one in treatment \$30 per ton				

Or net yield of ore in treatment \$30 per ton.

F. W. Dahne, Esq., who dressed a lot of this ore sent to Swansea, says: "The ore I treated contained, before dressing, 2½ ounces of gold to the ton (2240 pour.

Captain Benjaminmer, who examined these mines for Messrs. John Taylor & Sons, of London, carefully sampled the ores from the different openings, and had his samples assayed by Professor Chapman, of University College, Toronto, who obtained the following as the average of a number of assays, gold counted at \$20.66 per ounce troy :

Sample No. 19, Gold \$88.65 per ton of 2000 pounds. 4.4 No. E. 44 24.87 44 44 44 .. 44 44 No. F. 36.60 " \$ 6 44 . No. G. 24.74 Average, \$31.21.

The amount of silver in these samples never exceeded $\frac{1}{4}$ onnce per ton.

TESTS ON A LARGER SCALE.

Two barrels of average ore treated at Balbach's works, in Newark, N. J., yielded :

From East Vein--Gold, \$23.76; silver, \$4.07. Total, \$27.83 per ton of 2000 pounds.

From O'Neil Shaft.-Gold, \$25.62; silver, \$4.39. Total, \$30.01 per ton.

Four barrels of ore sent to Messrs. Richardson & Co., Swansea,

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