

were altogether the reasons for placing the canal where it now is, had its effect among other considerations; but the governing object and the one we sought most laboriously to gain, was to place the canal, while all other circumstances were equal, in the position which would admit of the most economical construction.

*Answer to query 17.* I would refer to my previous answers to the 4th and 8th interrogatories, as furnishing a proper answer to this interrogatory.

*Answer to query 18.* The width of the Monococy Aqueduct is 20 ft. its length 512 ft. There is no place in the canal below the point of rocks where the width is less than 50 ft. The least width of the canal as constructed or planned between the point of rocks and Harper's ferry is 50 ft. This occurs where there are rocky points and difficult passes; the one side of the canal is then generally made perpendicular, by which means the water section is preserved. The least inclination given to a wall on the outside of the canal bank is 3 inches to the foot lateral, though the majority of the walls slopes with an inclination of one to two, with an angle of 45.

*Answer to query 19.* I have not at present the means of answering what proportion of the canal below the point of rocks is constructed partly in the water, but several miles are constructed in this situation. The walls vary in perpendicular height, from 15 to 60 ft. It has been contemplated to construct in like manner between the point of rocks and Harper's ferry, about 2 miles, and the walls will vary from 15 to 20 ft. in height. I am not aware from personal examination, of the extent of canal, similarly situated between Harper's ferry and Cumberland, but have heard and seen it estimated at 40 or 45; the walling will probably range from 15 to 30 feet in height.

ALFRED CRUGER.

STATE OF MARYLAND,

Frederick Co. Sc.

On this 30th day of January 1833, personally appeared Alfred Cruger, and made oath that the matters and things