

Thermometrical experiments in a well when no water in it. see a mention of Dr. Hales's experiment in Muller's *Sand's Diet-vol's Thermometrical*.

Depth at which the thermometer was suspended	state of mercury at that depth.	state of mercury in open air at same time
13. feet.	60.	85.
14.	58 $\frac{3}{4}$	85
15.	58 $\frac{1}{2}$	85.
65.	58	85.

Altitude of the sun by observation at different hours of the day, and the angle he makes with Willis's mountain at the same hours.

June 26.	altitude	L with W's mount	Sep. 22.	altitude	L with W's mount	Dec. 11.	altitude	L with W's mount
11 - m.			H. m.			H. m.		
4 - 40. A.M.	0 - 35	121° - 6' East	sun in S. 45'	21 below	91° - 54'			
5 - 0	4 - 2	117 - 52	6 - 0	2 - 3	89 - 42			
5 - 30	9 - 8	113 - 40	6 - 30	7 - 45	85			
6 - 5	15 - 35	108 - 46	7 - 0	13 - 36	80 - 15			
6 - 30	20 - 35	105 - 10	7 - 30	19 - 21	75 - 12			
7 - 0	26 - 23	101 - 4	8 - 0	25 -	69 - 45			
7 - 35	33 - 20	96 - 7	8 - 30	30 - 27	63 - 48			
8 - 0	38 - 35	92 - 16	9 - 5	36 - 27	55 - 57			
8 - 30	44 - 38	87 - 22	9 - 30	40 - 15	49 - 51			
9 - 0	50 - 35	81 - 57	10 - 0	46 - 24	41 - 24			
9 - 30	56 - 39	75 - 16	10 - 30	47 - 51	31 - 33			
10 - 0	59 - 5	71 - 43	11 - 0	50 - 15	21 - 12			
10 - 30	67 - 41	55 - 31	11 - 35	51 - 48	7 - 18			
11 - 0	69 - 26	50 - 13	12.	51 - 54	2 - 45 W.			
11 - 37	74 - 5	25 - 22						
12 - 0	75 - 26	1 - 12						

Note my watch was set the day before by the passage of the sun over the meridian and not near to the equator of 2 m. In the day after she has 907. 26 minutes low water at 12. 40 which may occur in the above month at the supposed noon

Attempts to fix the latitude of the place by observations of the sun, moon and stars.

June 26	37 - 58 - 0
July 4	38 - 32 - 50
5	38 - 10 - 50
6	37 - 59 - 50
7	38 - 7 - 50
8	38 - 3 - 50
10	38 - 4 - 50