

for a height of nearly 500 feet. The southern shore of the river for several miles above High View is a rocky ridge which divides the Deep River channel from a long chain of lakes which starts from the south shore of the Ottawa about ten miles west of High View and cuts across to a point about three miles south of High View point. The surface of the country around this chain of lakes is heavily sand covered and these deposits extend south towards Chalk River. The lakes evidently indicate a former channel of the Ottawa which became choked up by sand subsequent to the glacial period.

The shore of the river opposite High View is indented by bays. The north shore of the main stream east from Oiseau rock continues in a bold range of hills for some miles eastward, and an old channel apparently followed a straight course from the deep bay eastward from High View. This channel evidently became choked up by great deposits of sand and gravel, thus diverting the stream past the east end of what is now known as the township of Buchanan, southward. The old channel thus blocked extended across the southern part of the townships of Sheen and Chichester, and probably reached the Culbute channel of the the Ottawa which flows along the north side of Allumette Island, below the Culbute Fall.

On both sides of the river opposite this place and for some miles to the east and west, the surface is covered with great deposits of sand and gravel, many feet in depth. In that part of the township of Chichester, north of the village of Chapeau, these sand ridges are well defined, continuing for several miles till they reach the foot of a bold ridge of granite and gneiss. This ridge is continuous from the foot of Deep River to the mouth of Rouge River about sixty miles below Ottawa city, and at one time undoubtedly formed the the north shore of the Ottawa River for this portion of its original course.

A great part of Allumette Island is occupied by these reddish granite sands. They form extensive ridges along the centre of the Island from east to west and they were at one time doubtless continuous with the broad areas north of the Culbute channel through which that channel has since been cut. The upper end of this channel for some miles is narrow and rocky, but the portion below the