



Meriwether Lewis

Courtesy of Independence National Historical Park



Location Map

# Lewis and Clark in Montana Pompeys Pillar

*Bob Bergantino and Ginette Abdo*



MBMG



William Clark

Courtesy of Independence National Historical Park

Lewis and Clark split the expedition into two exploring parties at Travelers Rest near present-day Lolo, Montana on July 3, 1805. They planned to rejoin at the mouth of the Yellowstone River. Clark's party included Sacagawea and little Jean Baptiste. One of Clark's objectives was to explore the Yellowstone River. About 25 miles southwest of present-day Billings, Montana, Clark's party built dugout canoes; they launched them on July 24. By mid-afternoon on July 25, the canoes had traveled more than 50 miles down river to the northeast:

*... at 4 P M arrived at a remarkable rock Situated in an extensive bottom on the Stard. Side of the river & 250 paces from it. this rock ... I shall Call Pompy's Tower is 200 feet high and 400 paces in secumprance and only accessable on one Side which is from the N.E. the other parts of it being a perpendicular Clift of lightish Coloured gritty rock ...*

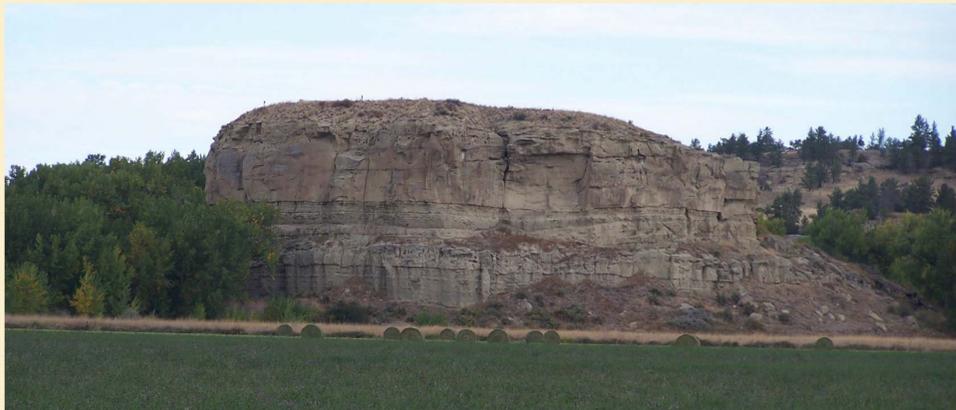


Photo by Ginette Abdo, MBMG

Clark likely named this feature for Jean Baptiste Charbonneau, nicknamed Pomp. In the first edition of the History of the Lewis and Clark Expedition (1814), however, the name became Pompeys Pillar. The pillar was proclaimed a National Monument in 2001.

The height of the pillar is about 130 feet, substantially lower than Clark's estimated 200 feet. Its base is oval-shaped, about 370 feet by 480 feet, and is nearly 400 yards around.

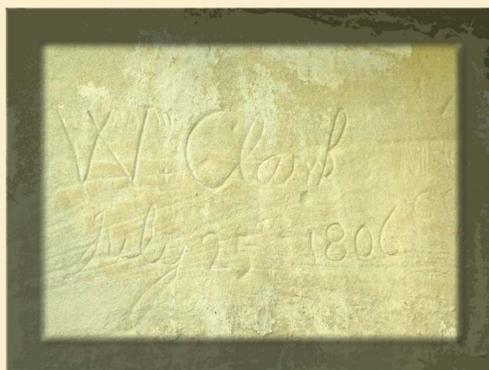


Photo by Ginette Abdo, MBMG

*The natives have ingraved on the face of this rock the figures of animals &c. near which I marked my name and the day of the month & year.*

W.R. Plywell, with the Stanley Expedition (1873), photographed Pompeys Pillar from the cliffs north of the river. Today trees obscure the Pillar from this site.

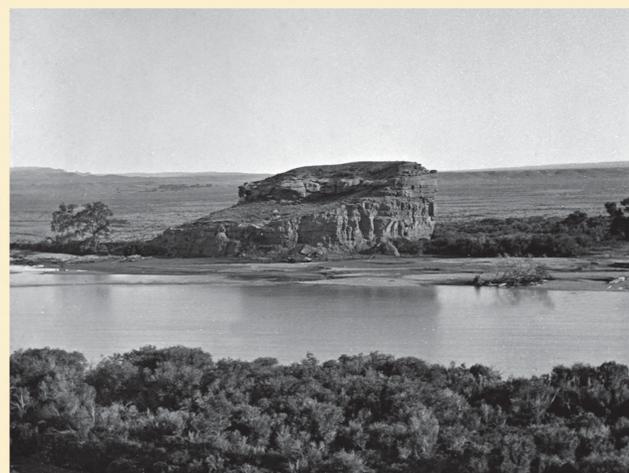


Photo (no. 106-YX-36) courtesy of the National Archives

## How did the Pillar Form?

About 65 million years ago, during the Late Cretaceous Period . . .



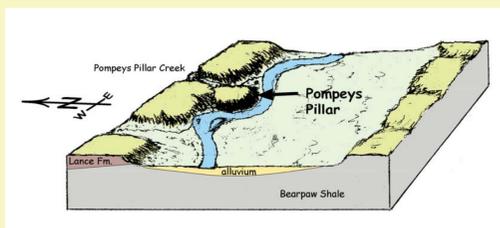
Photo by Ginette Abdo, MBMG

*... rivers flowing eastward from the rising Rocky Mountains carried sand, silt, and clay to a shallow sea just east of present-day Montana. The sand and silt those rivers deposited here became, with time and compaction, the lightish Coloured gritty rock that Clark described. Geologists call this the Lance Formation.*

## Several million years ago . . .

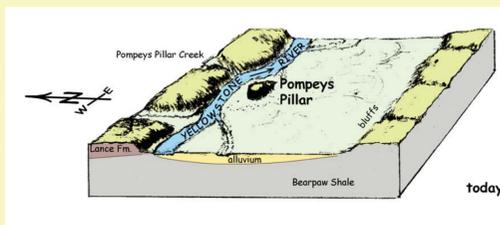
. . . the Yellowstone River meandered over its floodplain much as it does now, gradually cutting its valley deeper. What is now Pompeys Pillar was once part of the cliffs north of the river.

A meander began to eat into the cliff north of the present Pillar, forming a low neck. Pompeys Pillar Creek also cut into the weak rock there.



Diagrams by Bob Bergantino, MBMG

Then, likely during a flood, the river breached the low neck, separating the Pillar from the cliffs north of the river, isolating it on the south side.



. . . the rib of a fish . . .

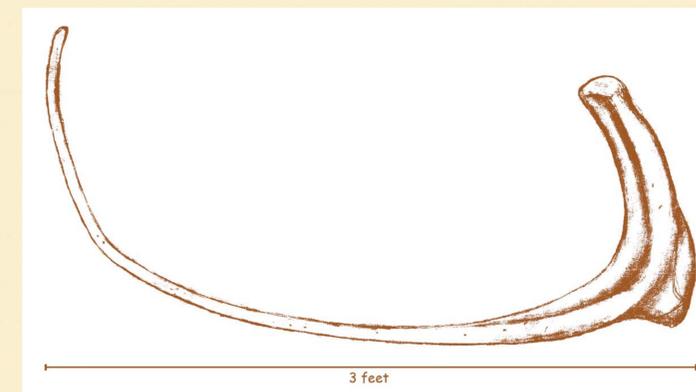
About 6 miles downriver from Pompeys Pillar 40 bighorn sheep crowded the cliff north of the river. The canoes landed and Clark climbed the cliff. Near the top Clark found a bone protruding from the soft rock.



Rocky cliff that Clark may have climbed.

Photo by Ginette Abdo, MBMG

*... I employed my Self in getting pieces of the rib of a fish which was Semented within the face of the rock this rib is [about 3] inches in ~~thame~~ Secumpherance about the middle . . . it is 3 feet in length tho a part of the end appears to have been broken off. I have Several pieces of this rib the bone is neither decayed nor petrified but very rotten.*



Reconstruction of the "rib of a fish" from Clark's description and a small sketch he made on a map of this area —Bob Bergantino, MBMG

The bone is from a terrestrial dinosaur — perhaps a Triceratops or Tyrannosaurus. The rock that held this bone is part of the Lance Formation (Cretaceous). Dinosaurs were not recognized as a distinct group of animals until 1840.