Abstract
Concretions were collected from several locations within southern Oregon and northern California. Most concretions were collected from the Blue Gulch Member of the Hornbrook Formation. Host mudrock samples adjacent to the concretions were also collected for geochemical analyses. Field relationships between the concretions and bedding planes were recorded.

Methods

Results and Discussion

The mudrock concretions in the Hornbrook are interpreted to have formed in an early diagenetic environment. Concretions in the Hornbrook are found oriented along bedding planes, and in some cases, predations in bed boundaries suggest that concretions are convoluted. The mudrock concretions in the Hornbrook can differ in their composition that would otherwise not be distinguishable between concretion and nearby mudrock.

Thin Sections

Concretions were studied with scanning electron microscope (SEM) and an optical microscope.

Concretions are rare in the Hornbrook Formation, with several small concretions scattered throughout the studied sections. Concretions are found in mudrock and form as cementing agents around evaporites and mudrock.

Concretions have been studied in the Hornbrook for concretions and nearby mudrock.

Acknowledgements

References

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Fieldwork

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