



Contribution ID: 1034

Type: **Poster Presentation**

Estimating sub-core permeability using multiple coreflooding experiments

Wednesday, 15 May 2024 16:10 (1h 30m)

Coreflooding experiments are used regularly for reservoir rock characterization and have been developing in recent years. Investigation of sub-core phenomenon has been a topic of wide interest and estimating sub-core permeability distribution $k(x,y,z)$ is important for that, and also for constructing accurate coreflooding models. This work presents a method for estimating permeability, combining data from multiple coreflooding experiments including different flowrates and fraction of injected fluids. Furthermore, the estimation accuracy considering a large number of physical parameters was studied. The method is shown to significantly improve the estimation accuracy in comparison to methods that incorporate data only from a single experiment which was studied in our previous work.

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References

Conference Proceedings

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Session Classification: Poster

Track Classification: (MS01) Porous Media for a Green World: Energy & Climate