



Geochemical Analyses of Oils and Gases, Naval Petroleum Reserve No. 3, Teapot Dome Field, Natrona County, Wyoming: Usgs Open-File Report 2005-1275 (Paperback)

By Kristin Dennen

Bibliogov, United States, 2013. Paperback. Book Condition: New. 241 x 185 mm. Language: English . Brand New Book ***** Print on Demand *****.Initial results of this study confirm the presence of two different oil compositions at the Teapot Dome field, 1) oils from Cretaceous reservoirs and 2) oil from the Pennsylvanian Tensleep Sandstone reservoir. Cretaceous oils are less mature, show more evidence of secondary biodegradation and have a mixed terrestrial and marine kerogen source. Moreover, Cretaceous oils can be separated into three different groups, Upper Cretaceous sandstone reservoirs, Upper Cretaceous shale reservoirs, and lower Cretaceous Sandstone reservoirs. The Upper Cretaceous sandstone reservoirs, the Shannon Sandstone and the Second and Third Wall Creek Sands show differences related to gas production, gas-reinjection effects and steam flood effects. The Pennsylvanian Tensleep oil is more mature, less biodegraded, has higher a sulfur content, shows evidence of water washing, and has a marine kerogen source. Hydrocarbon degradation in the Cretaceous sandstone reservoirs varies along the length of the highly fractured Teapot Dome anticlinal structure--the main trap for hydrocarbons in the Teapot Dome field--which is divided into two domes by an east-west trending fault system. The least degraded samples occur in the southern dome, where reservoirs...

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