

Criteria to Determine Lower Cretaceous Jurassic Boundary

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Summary

Several cores in the Willisden Green, Gilby and Medicine River areas were used in a pool re-designation case presented in 1995 (Decision 2005-009) and Decision D95 -10 (Hillcrest/Truax decision). Both decisions were based on a multi-disciplinary approach. The change in pool designation from Gilby Basal Mannville A3a to Jurassic was established in Decision 2005-009. However, significant emphasis was placed on criteria that was established during the application case of D95-10. The criteria discussed in Decision D95-10 included mineralogy, presence of coal, sulphide mineralization palynology, geophysical log signature and trace fossils.

More recently, a pool delineation application to redesignate the Lower Mannville C Pool to Rock Creek was filed in the Wilson Creek Field in 2009. Over several months, amongst other issues, the determination of the above noted criteria from distinguishing Lower Mannville and Jurassic strata was debated.

Cores presented will re-examine the criteria utilized in determining the Lower Cretaceous Jurassic Boundary in the complex geology presented between the lower Mannville and Jurassic strata.

References

Decision D 95-10: Hillcrest Resources Limited – Application to Determine the Base of Mannville in Township 40, Range 5, West of the 5th Meridian, issued August 30, 1995

Decision 2005-009: Provident Energy Ltd. Application for a Change in Pool Designation February 2005

Decision 2009-050: Nexxtep Resources Ltd. Pool Delineation Application: Redesignation of the Lower Mannville C Pool to Rock Creek