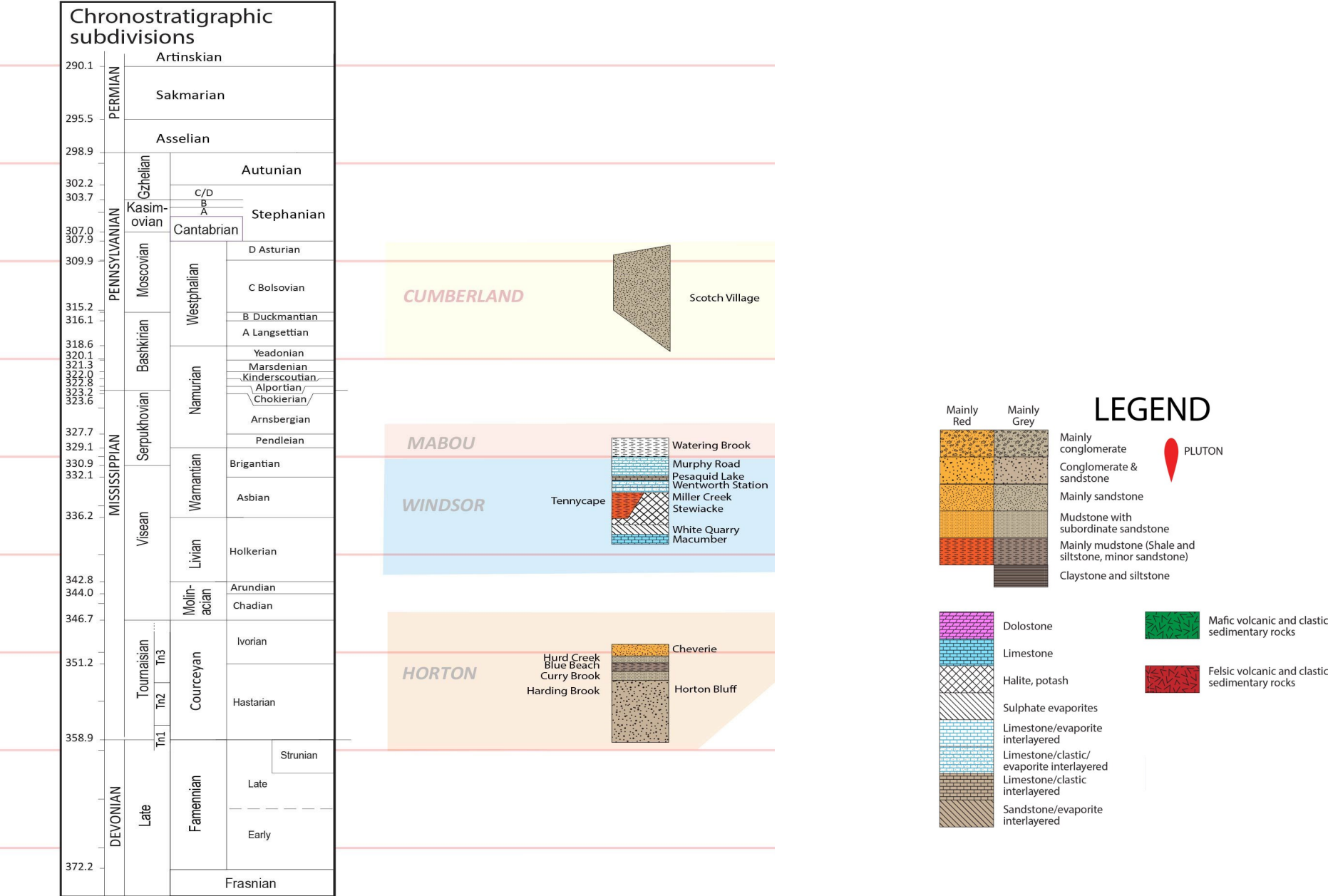
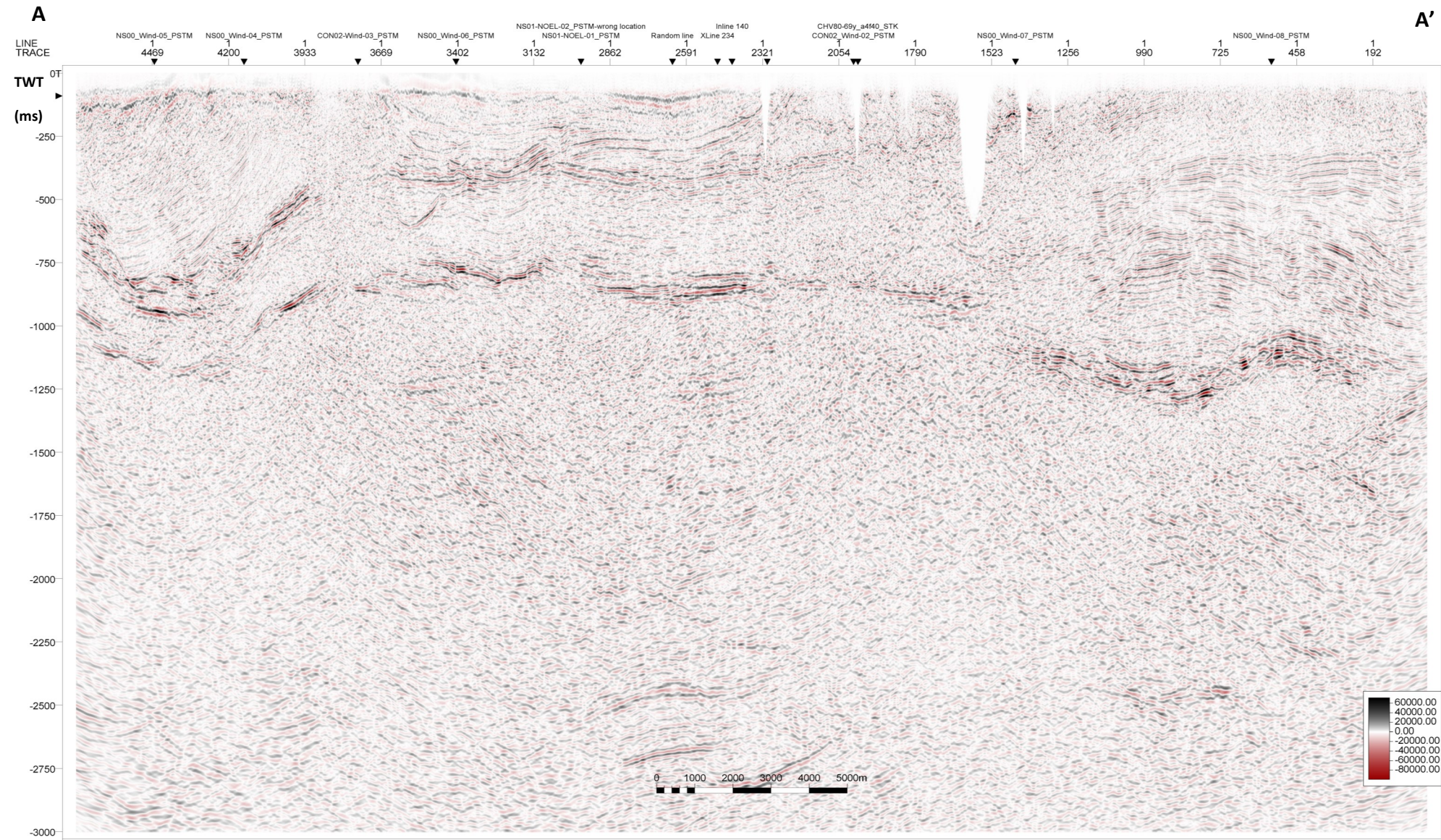


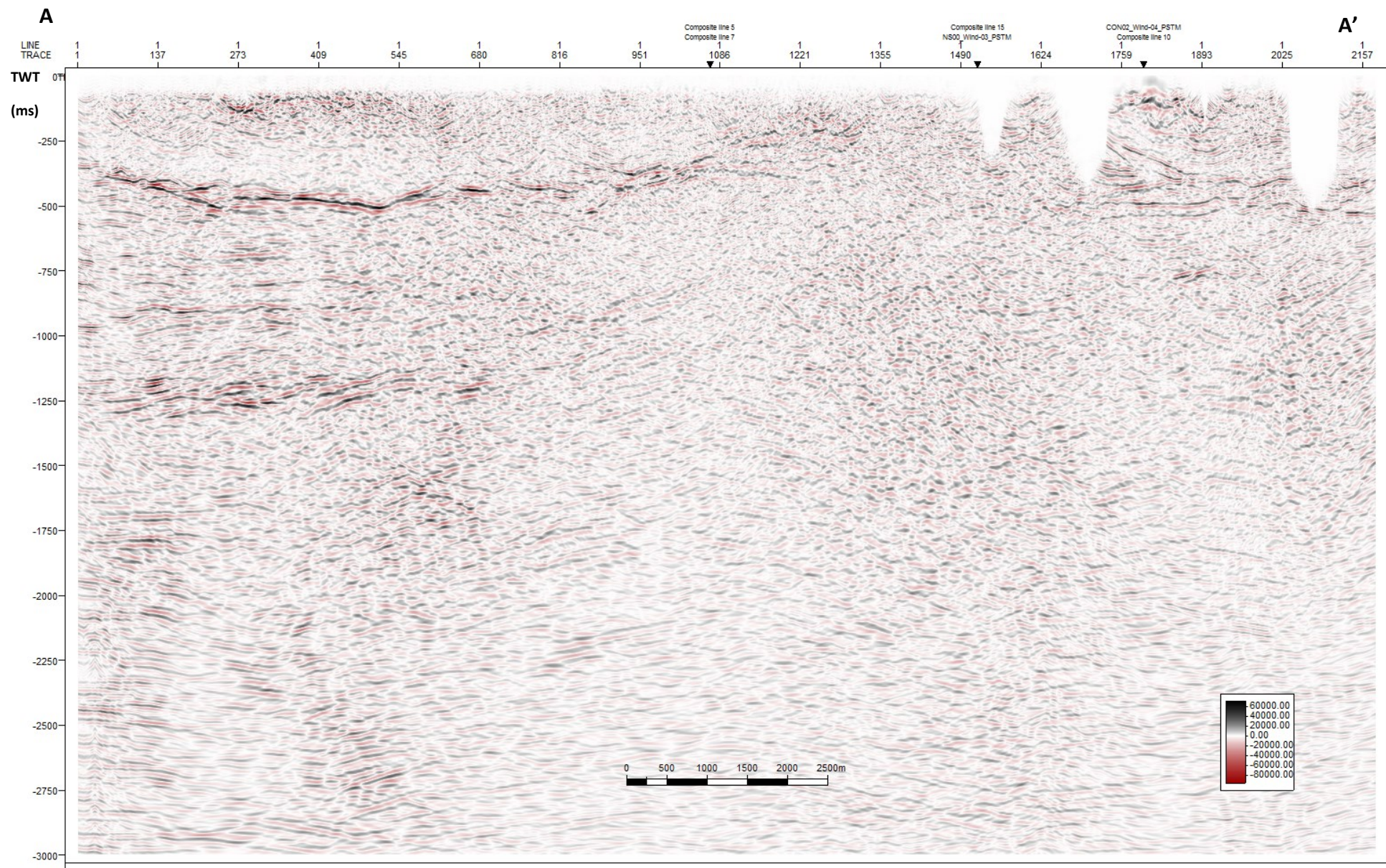
Seismic Interpretation in the Windsor Basin

Created by: Helen Cen (Department of Energy, Nova Scotia)

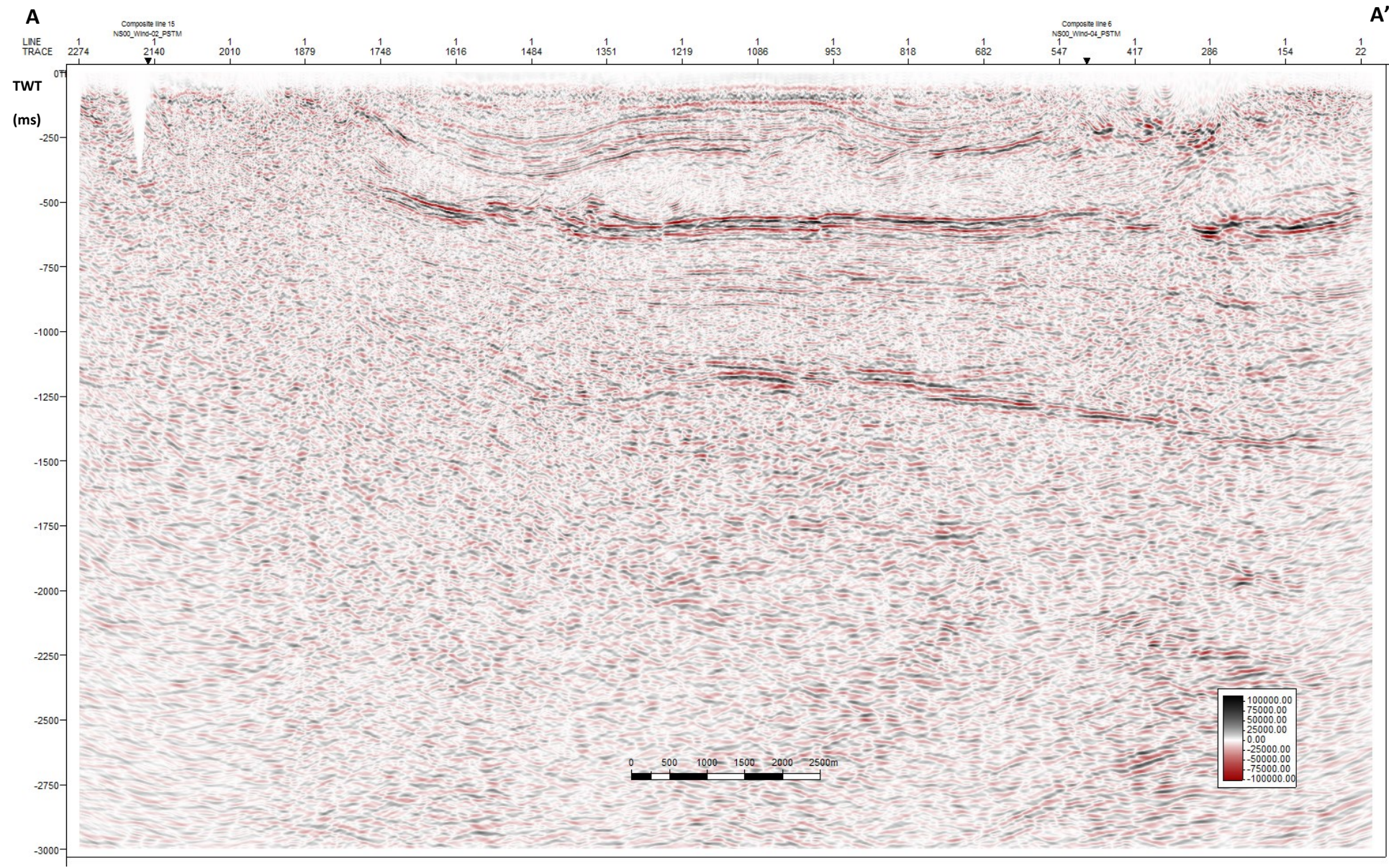




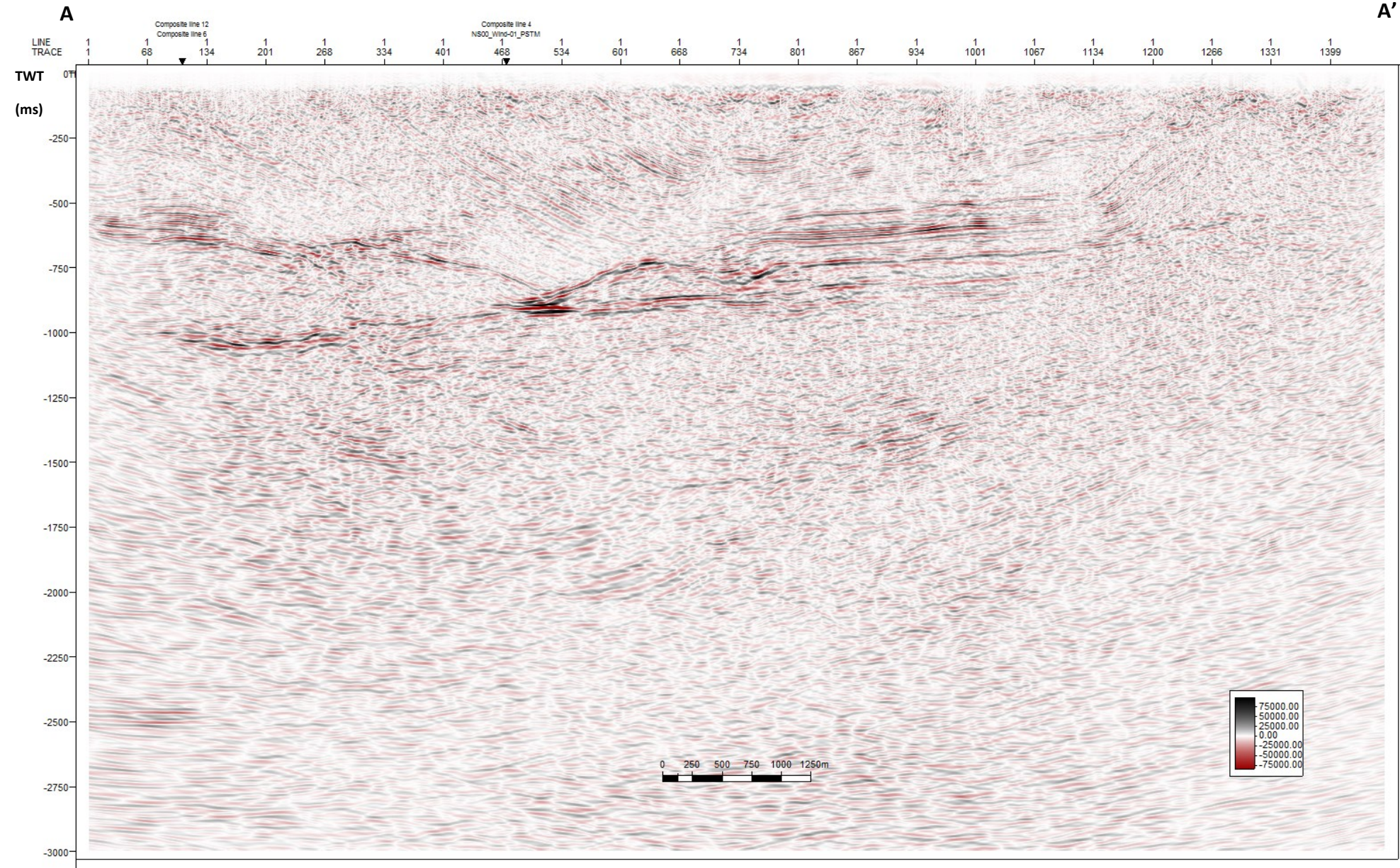
Uninterpreted seismic line NS00-WIND-01



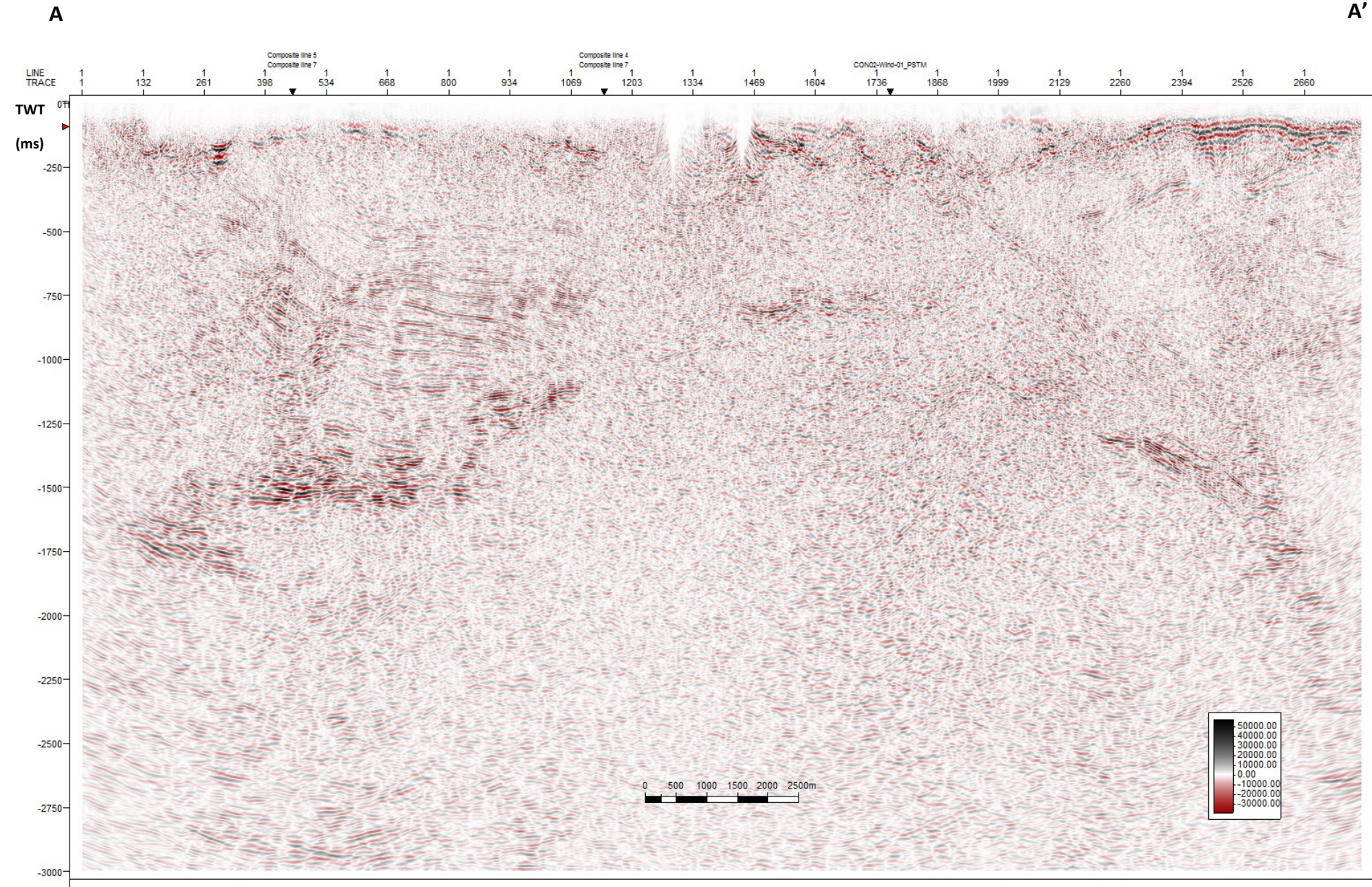
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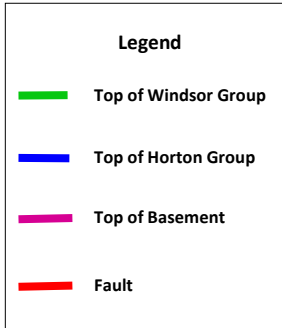
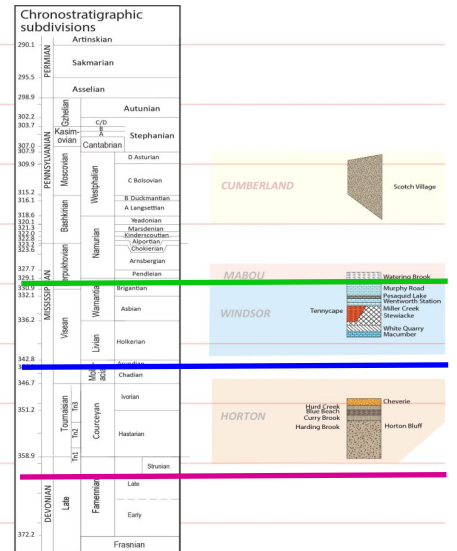
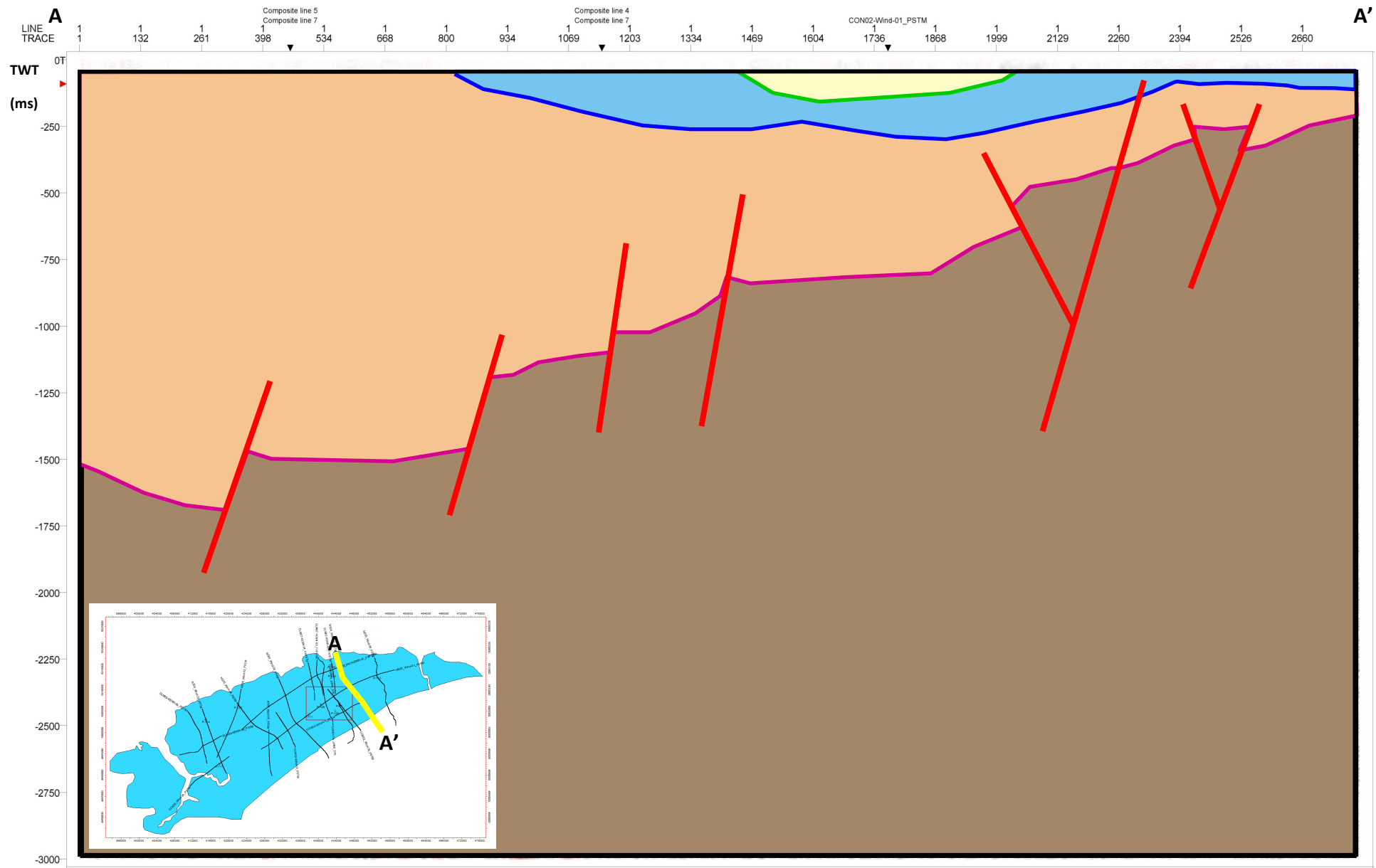
Uninterpreted seismic line NS00-WIND-03



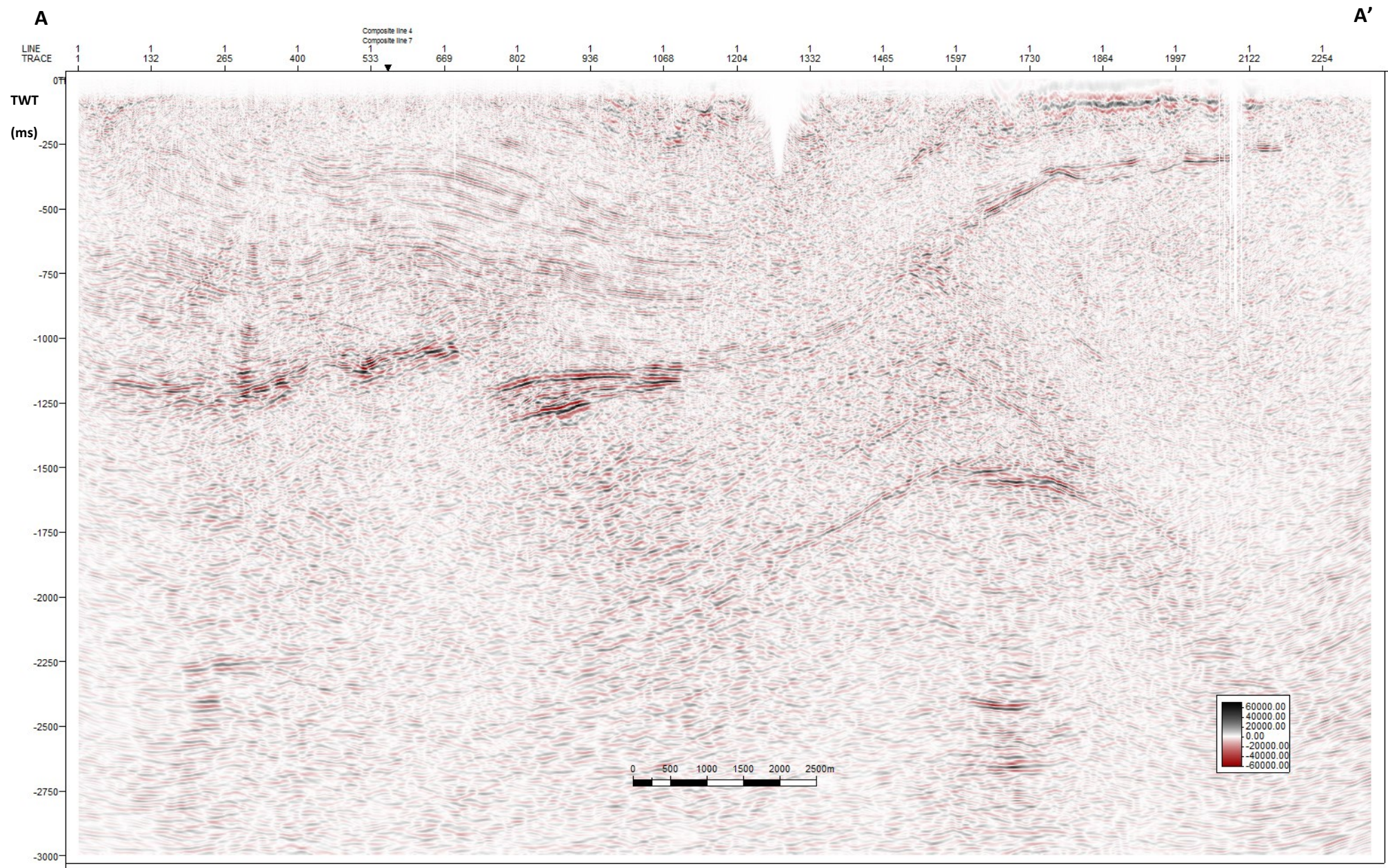
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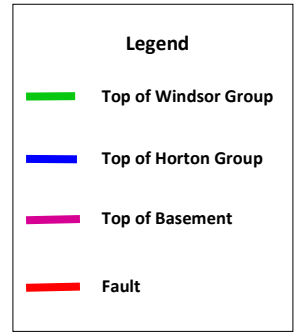
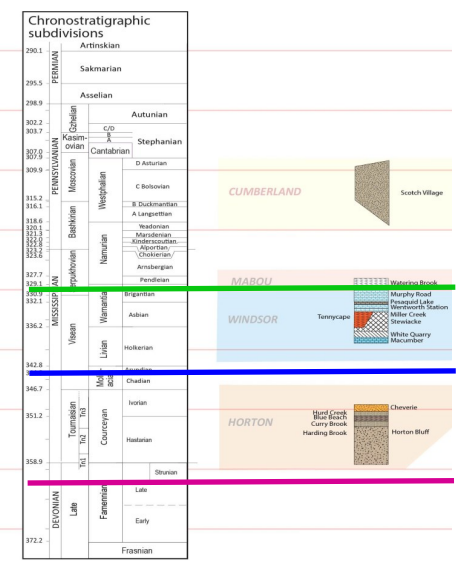
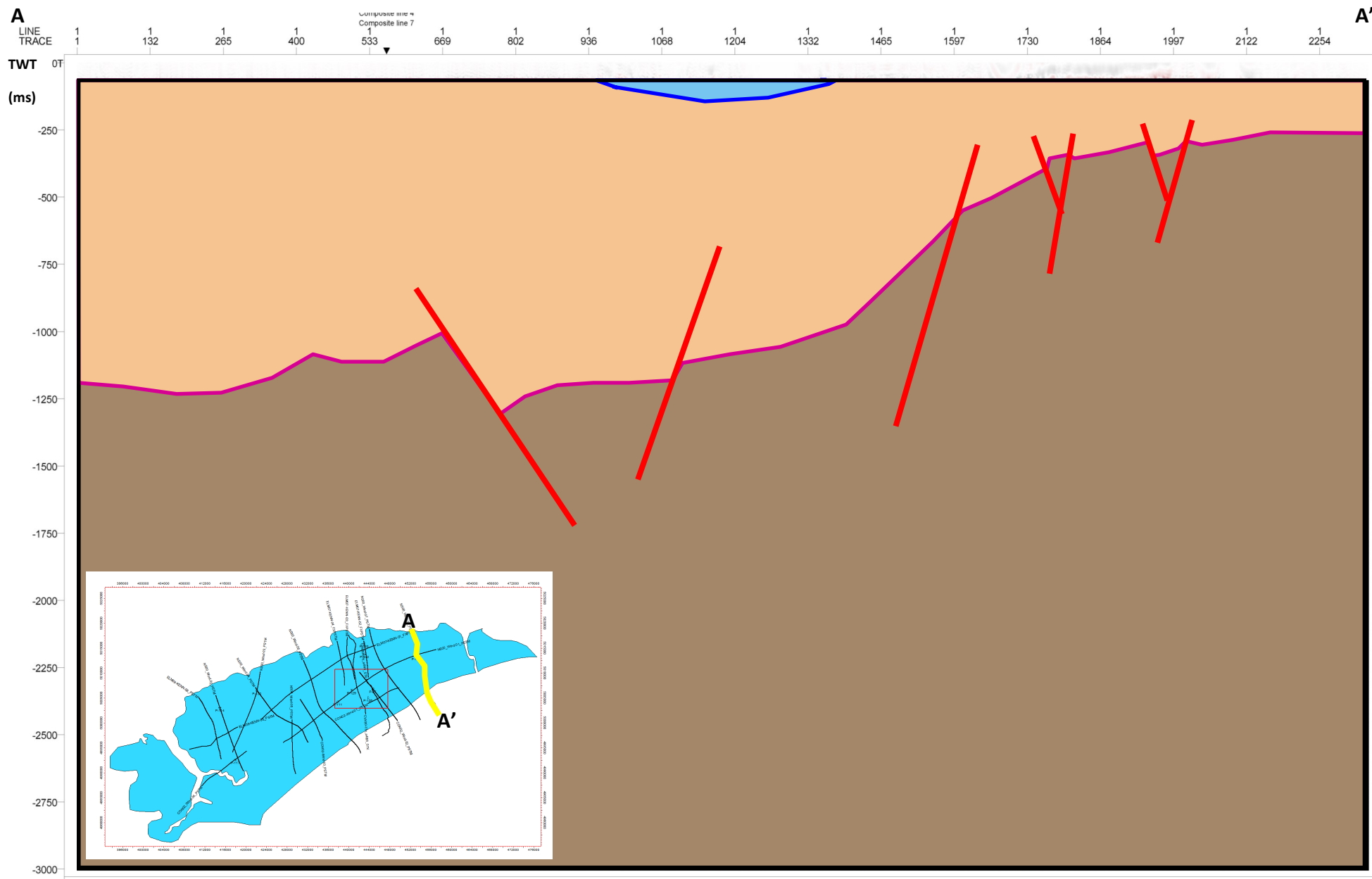
Uninterpreted seismic line NS00-WIND-07



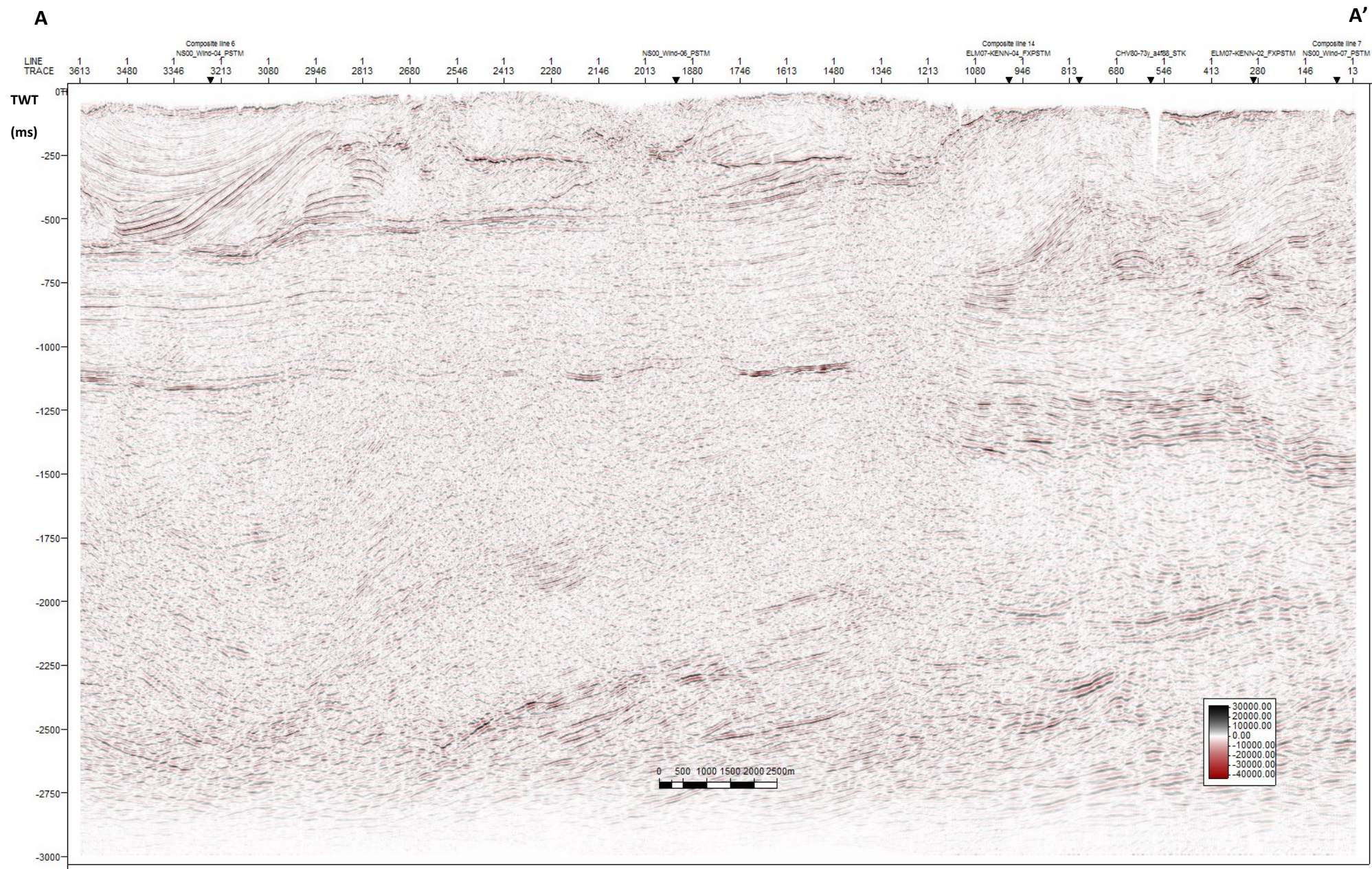
Interpreted Seismic Line NS00-WIND-07 clearly showing the basin was stepping down northward (from A' to A) which was a typical geometry of the half graben. The whole basin was controlled by the high angle basement related normal faults(NSDOE, 2016).



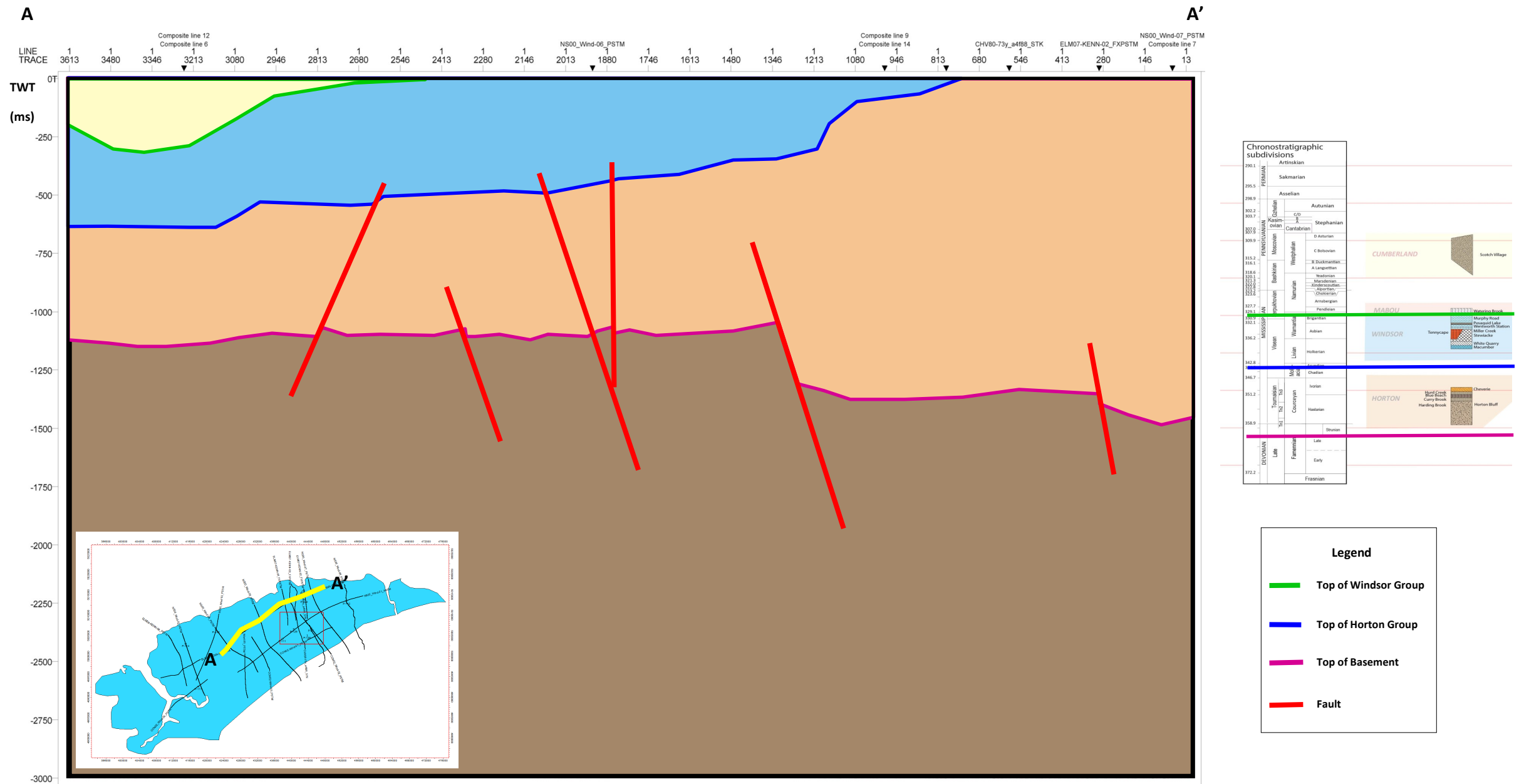
Uninterpreted seismic line NS00-WIND-08



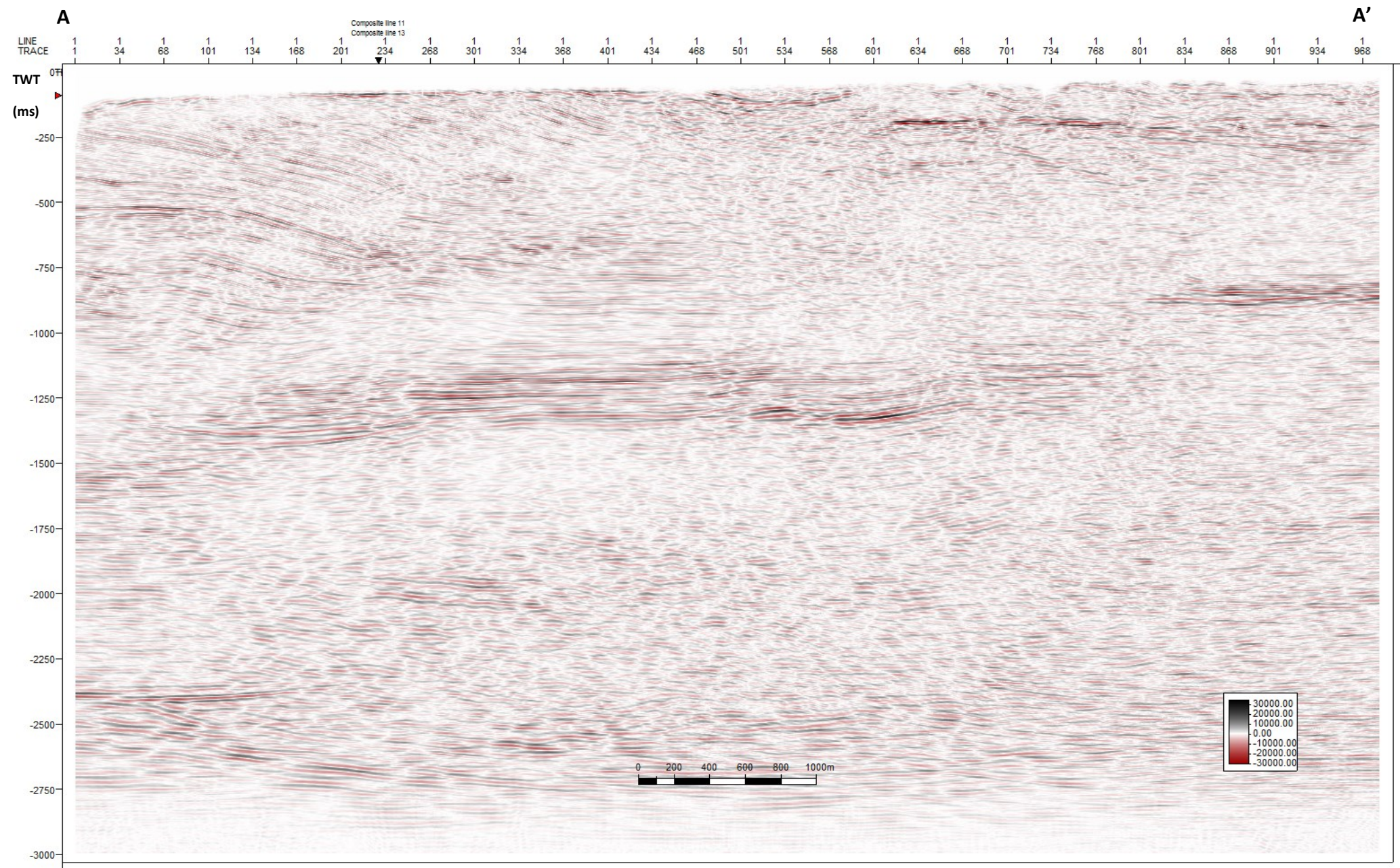
Interpreted Seismic Line NS00-WIND-08 showing the whole basin was stepping down from south to north (A'-A) . The succession of the Horton Group became thicker northward. The succession of the Windsor Group were missing due to non deposition or subsequent erosion (NSDOE, 2016).



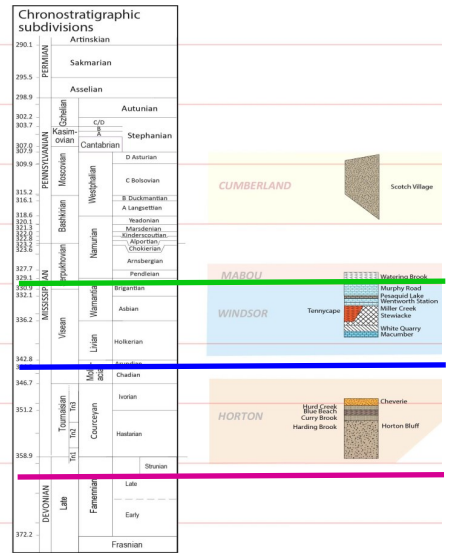
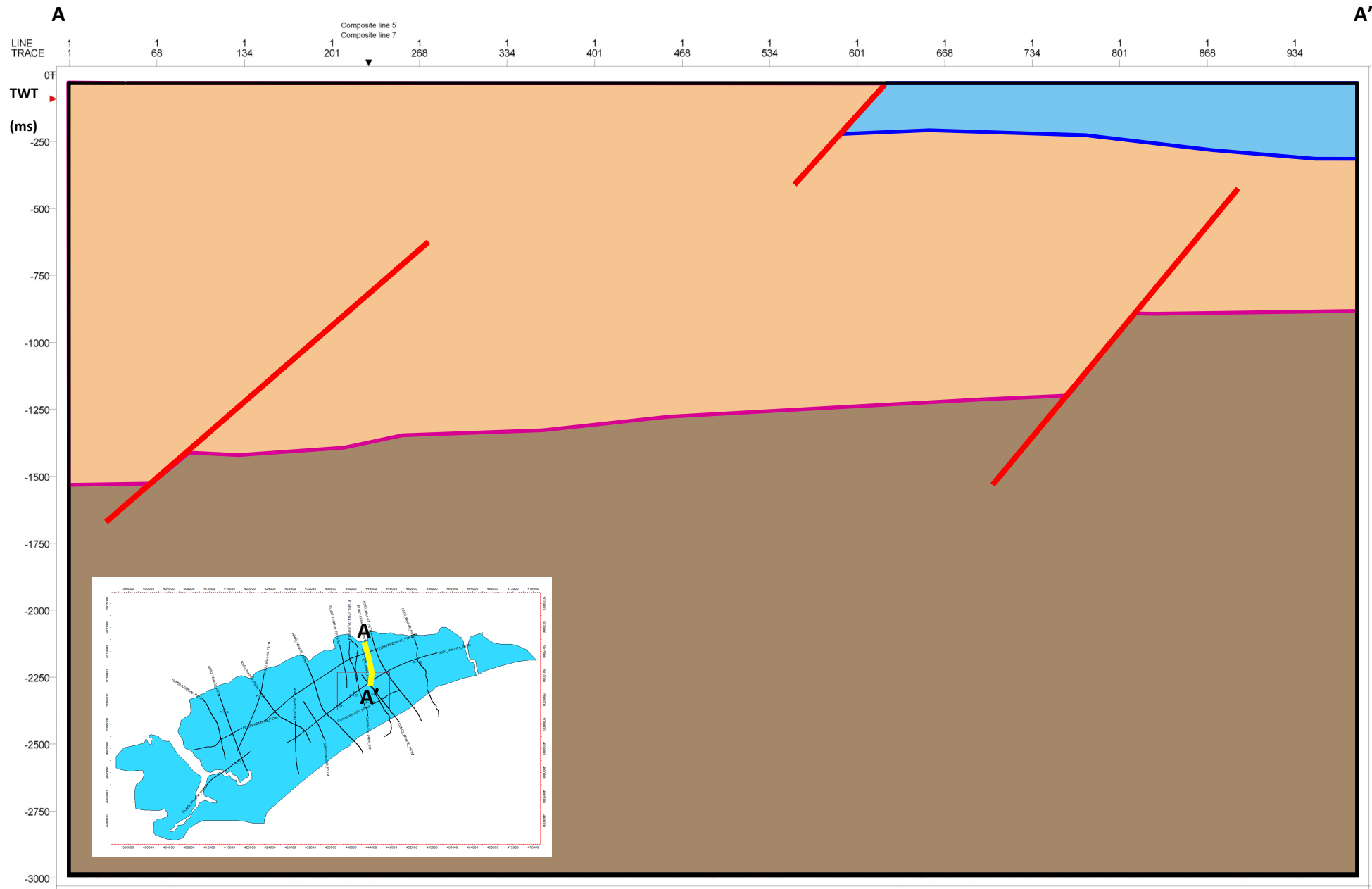
Uninterpreted seismic line ELM07-KENN-01



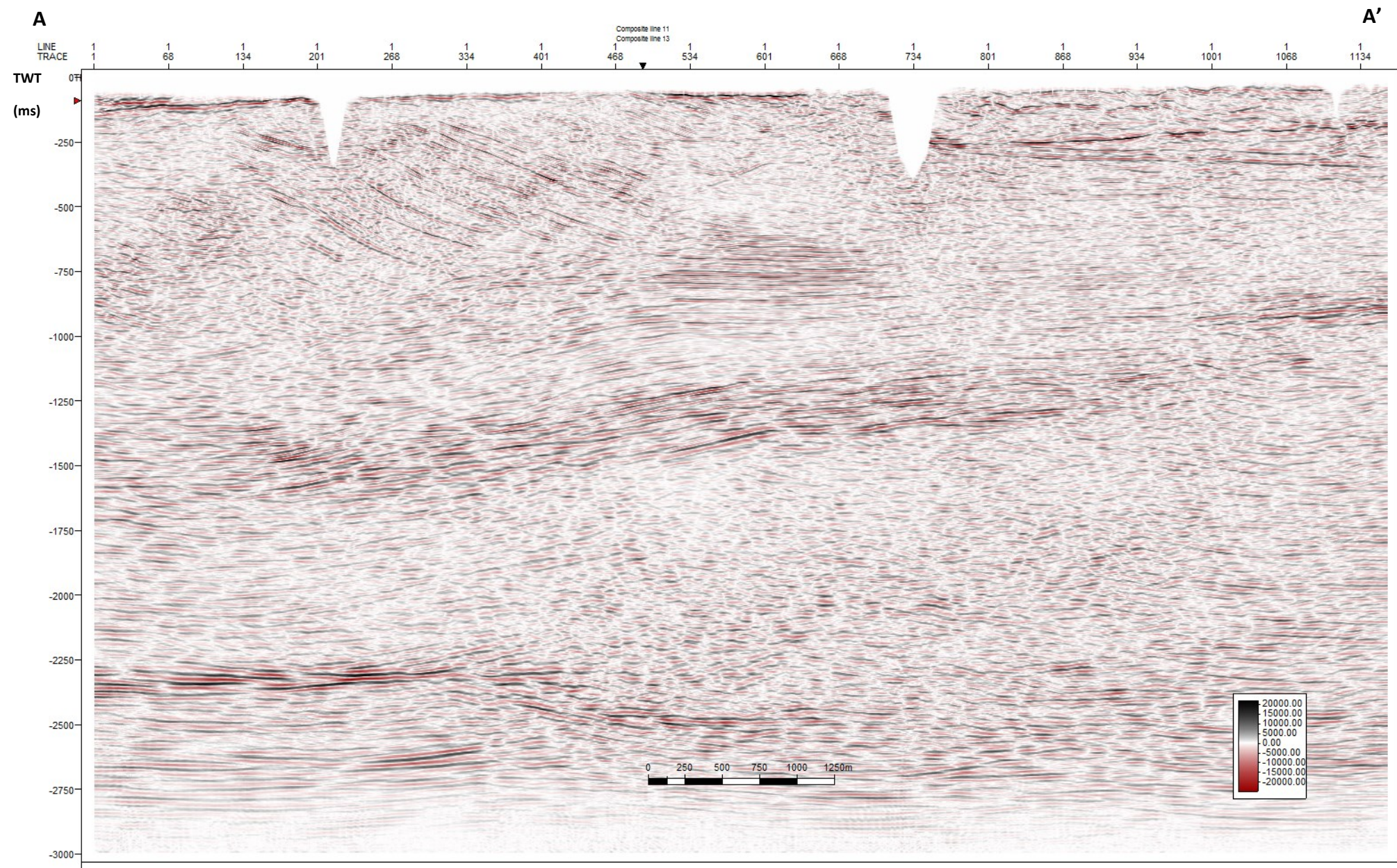
Interpreted Seismic Line ELM07-KENN-01 showing the thickness variation of the Horton and Windsor Groups from southwest to northeast (A-A') along the shoreline. The basin was deepening to the north-east. Parallel, planar seismic reflections within the Horton Group indicated the stratigraphic package of the Horton Group was preserved well. Incoherent and chaotic seismic reflections within the Windsor Group might indicate the succession of Windsor Group were locally highly deformed (NSDOE, 2016).



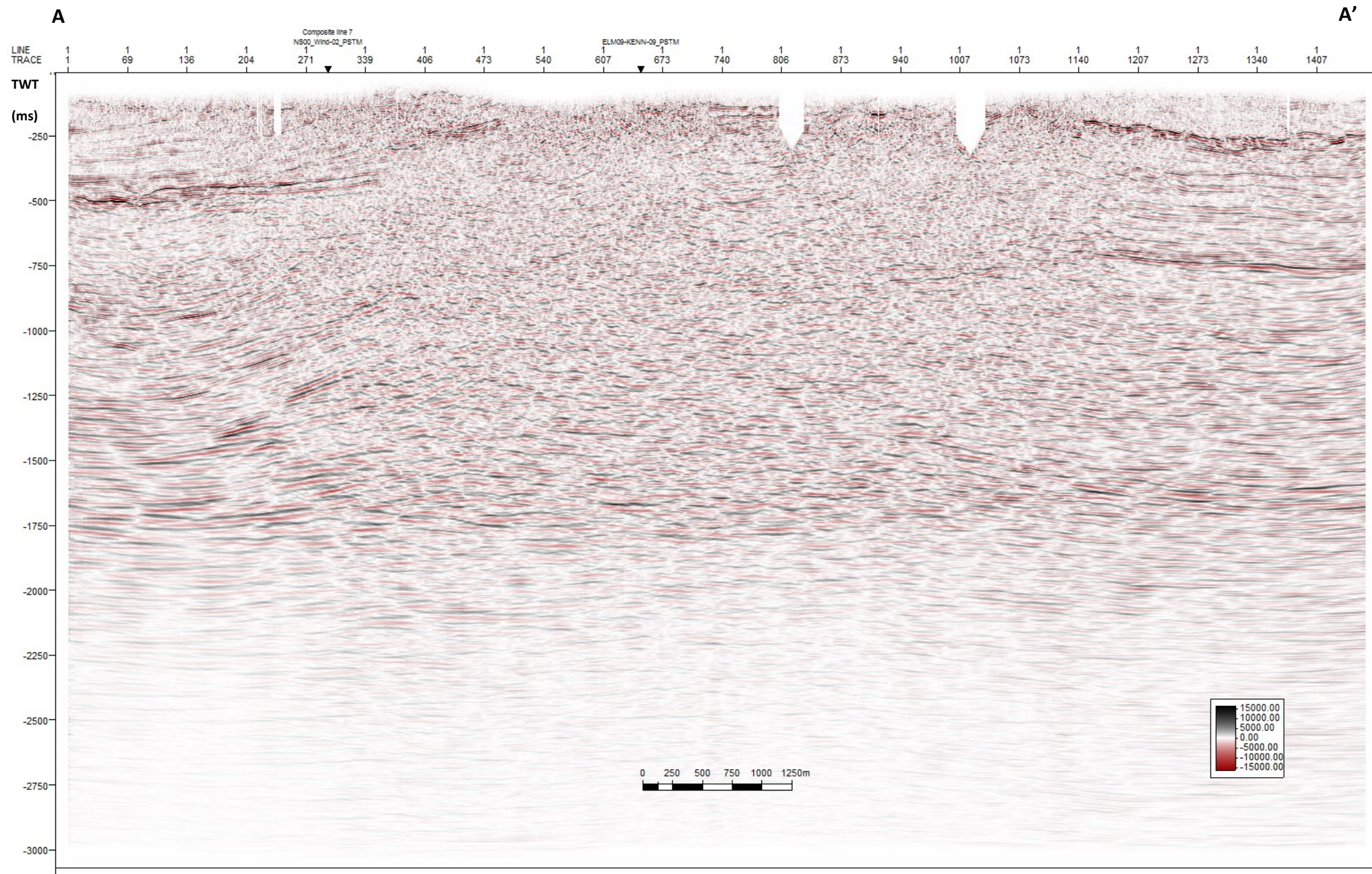
Uninterpreted seismic line ELM07-KENN-02



Interpreted Seismic Line ELM07-KENN-02 showing the typical stratigraphic structure of the Windsor Basin. The structure was dominated by graben/half graben with major basement-related normal faults. The whole basin was stepping down northward (from A' to A). The thickness of the Horton Group dramatically increased from south to north (NSDOE, 2016).



Uninterpreted seismic line ELM07-KENN-03



Uninterpreted seismic line ELM07-KENN-08

