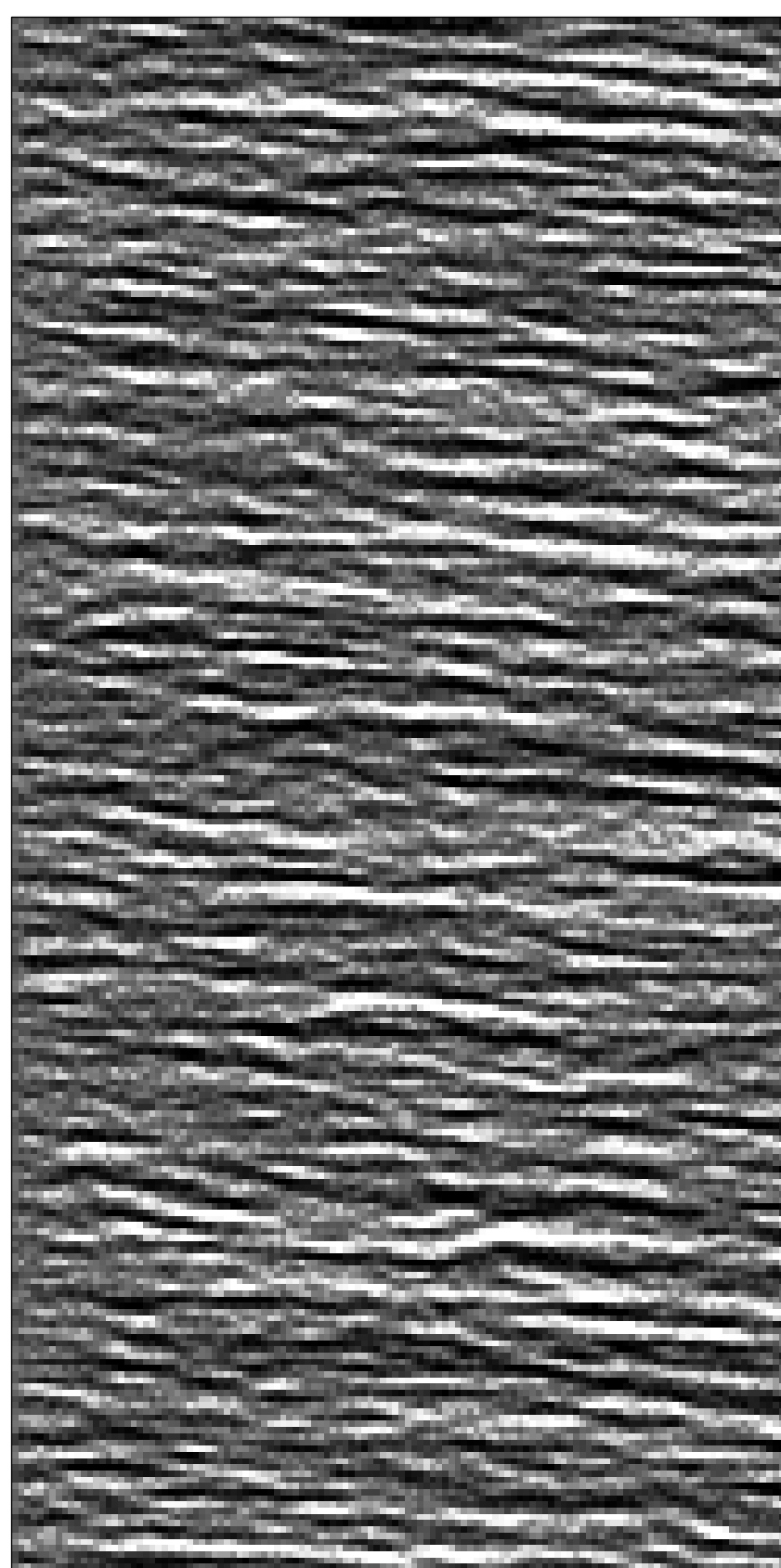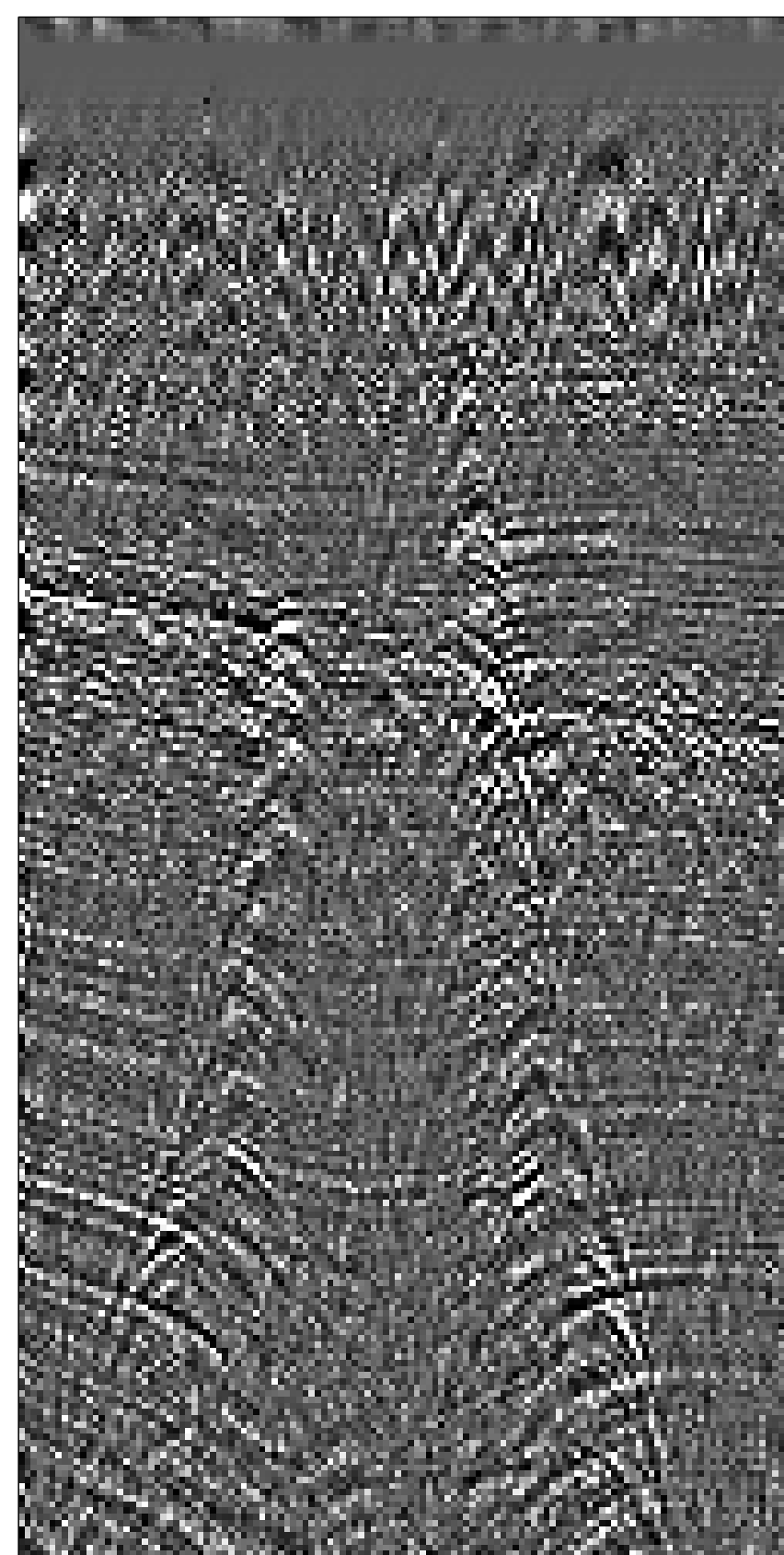Training Image   Synthesized Image   TI * PEF