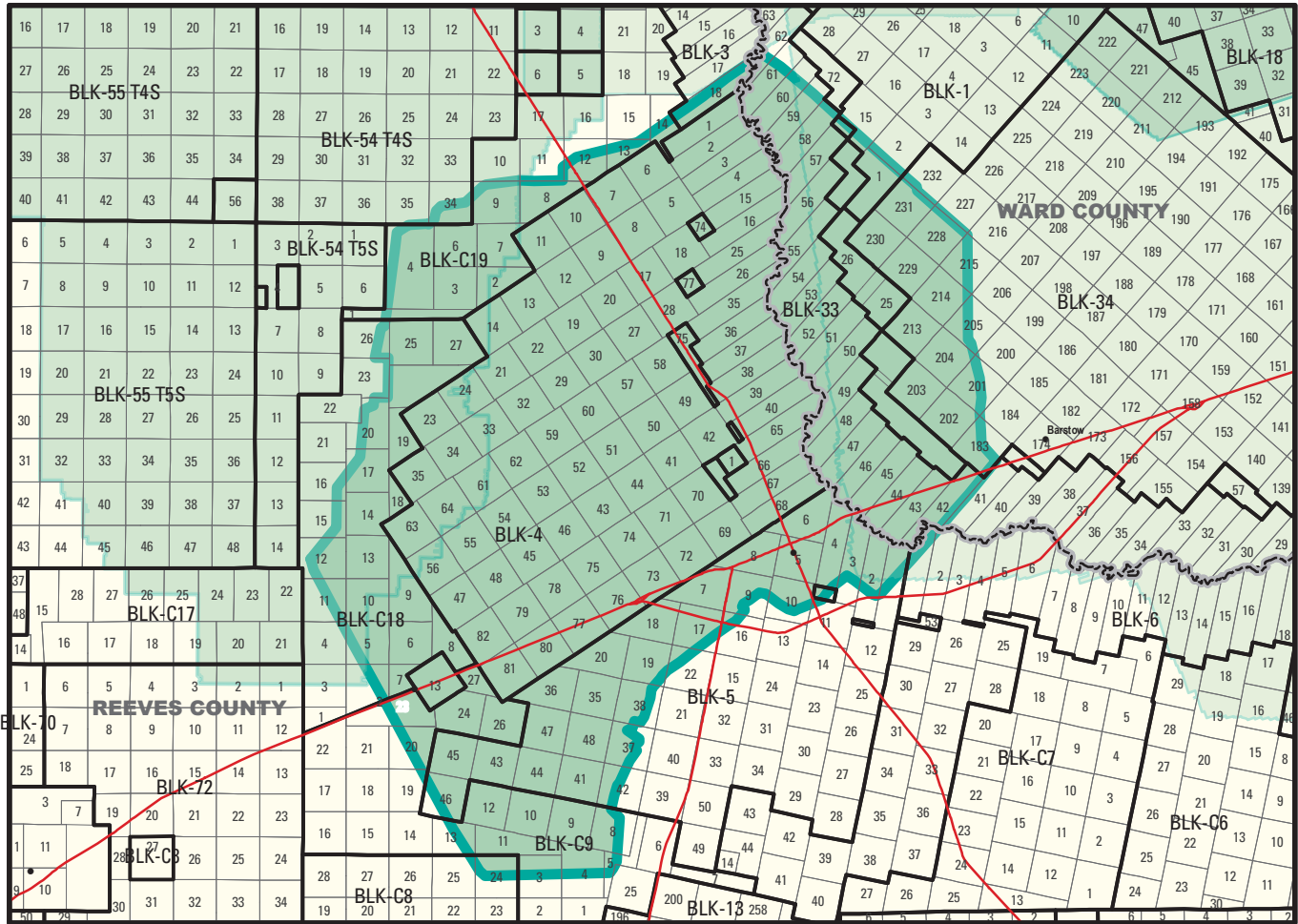


PecosHE 3D

Texas Permian Basin Land 3D
Reeves County, Ward County



Key Highlights

Wide-azimuth and long-offset recording geometry to ensure precision in the statics and velocity fields

Broadband processing with relative amplitude preservation

Vector High Fidelity (VHF) - Frequency enhancement for additional random noise attenuation and improved illumination of thin-bed stratigraphy

Anisotropic Kirchhoff pre-stack migration

PecosHE 3D

Acquisition Parameters

Energy source	Vibroseis
Source interval	200 ft
Source line spacing	600 ft
Source density	232.32 VP/mi ²
Receiver interval	200 ft
Receiver line spacing	1,000 ft
Receiver density	139.9 stations/mi ²
Recording patch	34 lines × 166 traces = 5,644 channels
Patch size	33,000 × 33,000 ft
Half-patch size	16,500 × 16,500 ft
Subsurface bins	100 × 100 ft
Record length	5.0 sec @ 1 ms
Sample rate	1 ms
Nominal fold - all offsets	470
Survey size	Approximately 181 mi ²

Pre-Stack Time Processing (PreSTM)

Loading/Reformat/Geometry/QC
Trace editing/Noise attenuation
3-D refraction modeling
SC deconvolution
SC residual statics - multiple iterations
SC amplitude corrections - multiple iterations
Velocity analysis - multiple iterations
5D interpolation
PreSTM
Residual velocity analysis
Filters/Noise suppression
Vector High Fidelity (VHF)