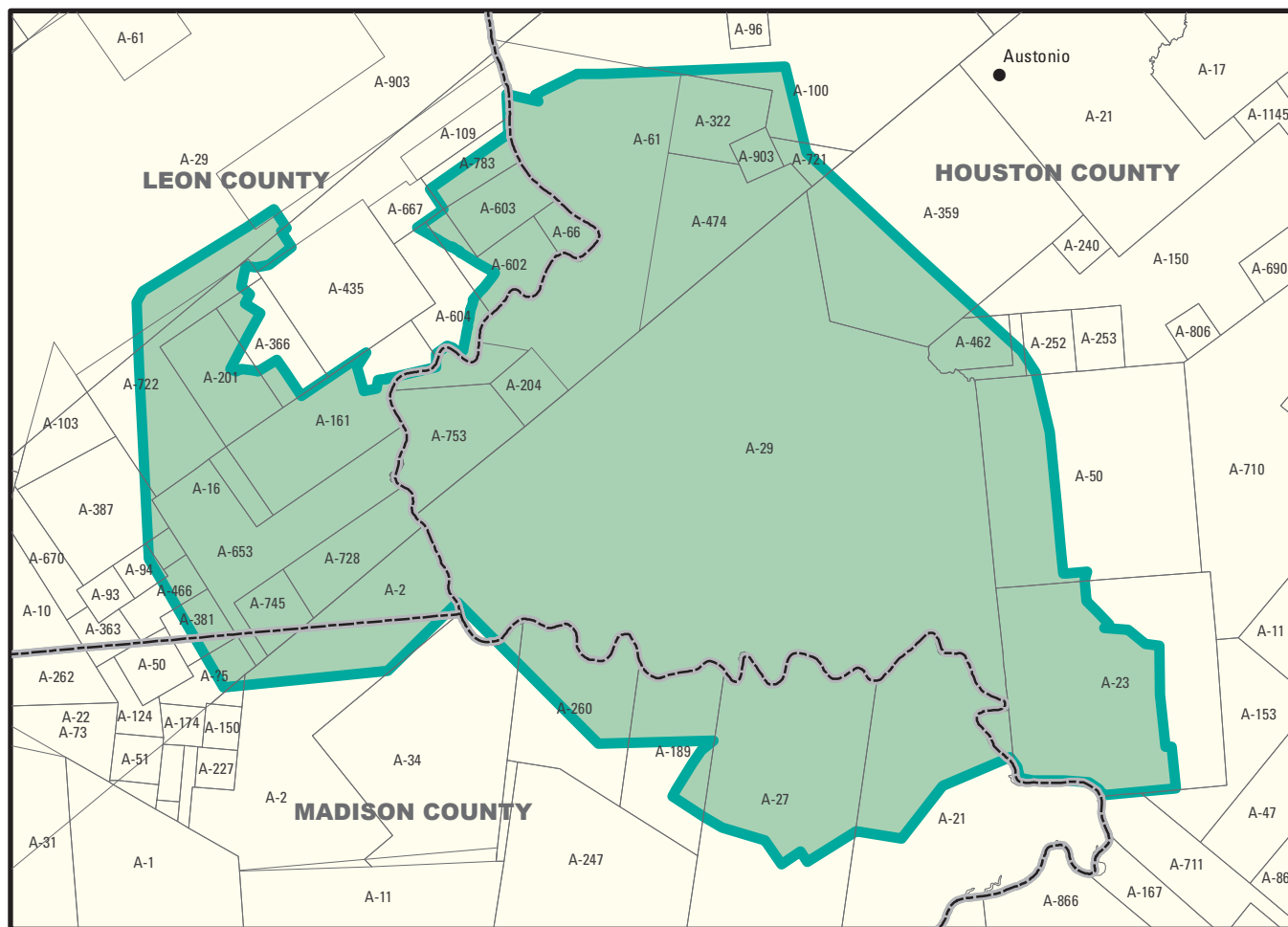




# HokieHD 3D

Texas Land 3D

Houston County, Leon County, Madison 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

## HokieHD 3D

### Acquisition Parameters

Energy source	Vibroseis
Source interval	165 ft
Source line spacing	1650 ft
Source density	204.8 VP/mi <sup>2</sup>
Receiver interval	165 ft
Receiver line spacing	825 ft
Receiver density	102.4 stations/mi <sup>2</sup>
Recording patch	34 lines × 166 traces = 5,644 channels
Patch size	27,225 × 27,225 ft
Half-patch size	13,612.5 × 13,612.5 ft
Subsurface bins	82.5 × 82.5 ft
Record length	6.0 sec @ 1 ms
Sample rate	1 ms
Nominal fold - all offsets	141
Survey size	Approximately 80 mi <sup>2</sup>

### 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)