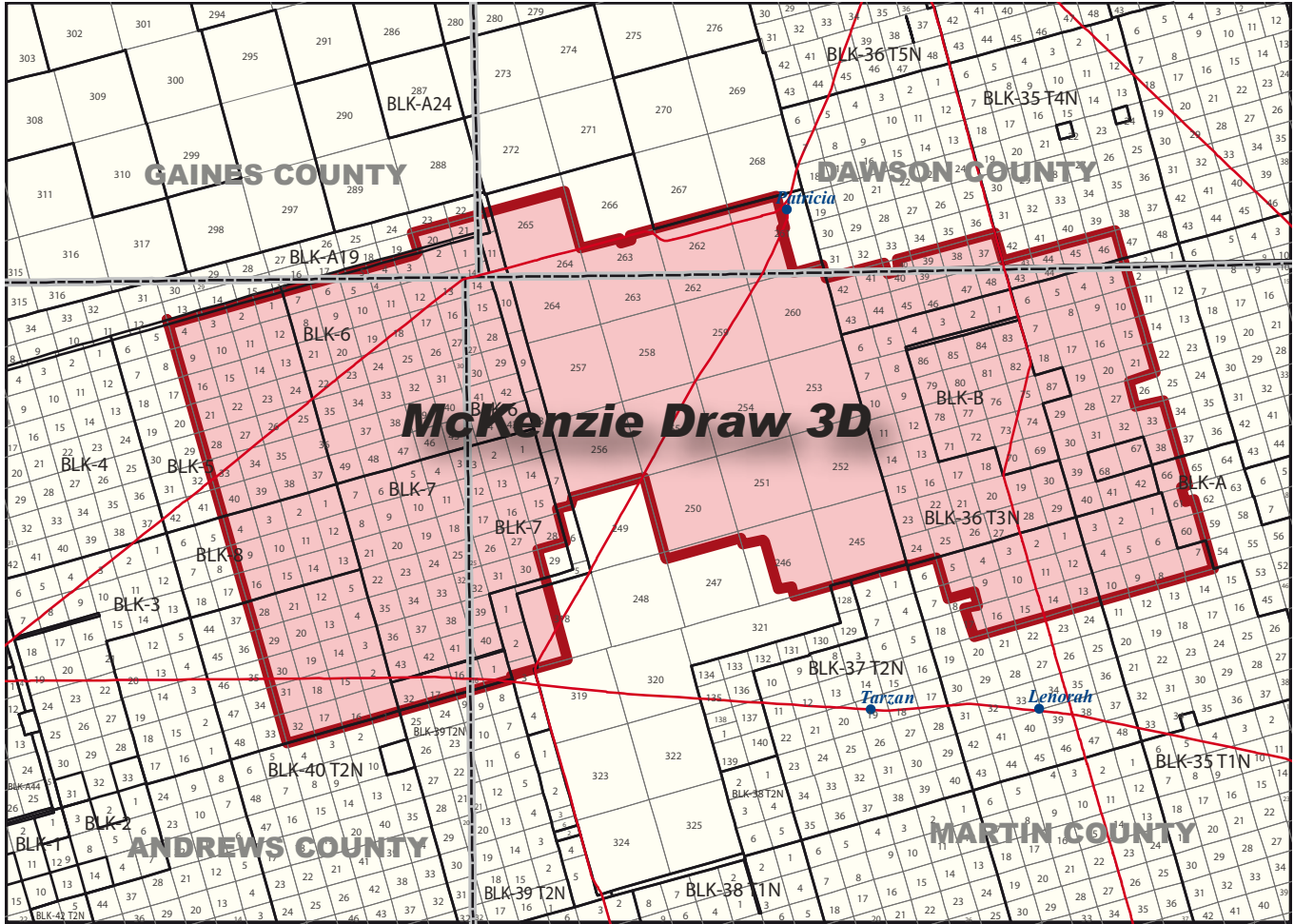




McKenzie Draw 3D

Texas Permian Basin Land 3D

Martin County, Andrews County, Dawson County, Gaines 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

Simultaneous Source Acquisition

McKenzie Draw 3D

Acquisition Parameters

Energy source	Vibroseis
Source interval	41.25 ft
Source line spacing	825 ft
Source density	819 VP/mi ²
Receiver interval	82.5 ft
Receiver line spacing	825 ft
Receiver density	409 stations/mi ²
Recording patch	42 lines × 512 traces = 21,504 channels
Patch size	33,825 × 42,157 ft
Sweep	2 - 90 Hz
Subsurface bins	20.6 × 41.25 ft
Record length	5.0 sec @ 1 ms
Sample rate	1 ms
Nominal fold – all offsets	546 (4,368 at 82.5' bins)
Survey size	Approximately 412 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)