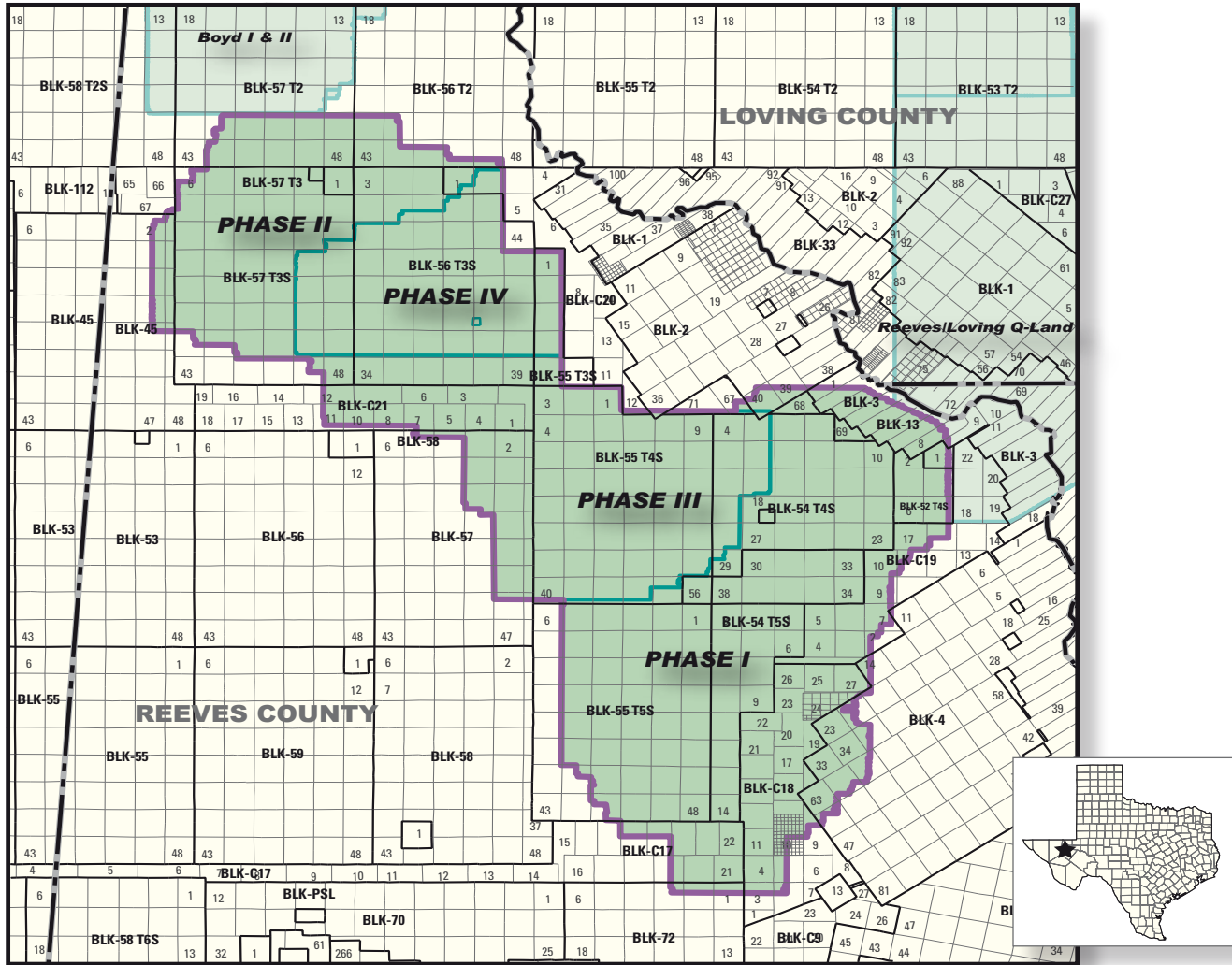


# North Reeves EMerge 1 Texas Land 3D



**PERMIAN BASIN / REEVES COUNTY  
KIRCHHOFF PRESTACK TIME MIGRATION**

**Multiclient Services**

For more details call:  
713 689 1000

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# North Reeves EMerge 1

## Acquisition Parameters

### Phases I and II

Recording System	Vision / 960 channel distributive system
Energy Source	Vibroseis
Spread Geometry	6 lines of 160 channels
Sweep Frequency	8/6-72 Hz; 6 dB; .5 Taper
Receiver Lines	220 ft intervals; 1540 ft apart; E/W
Source Lines	220 ft intervals; 1540 ft apart; N/S
Nominal Fold	3400%
Cell Size	110 x 110 ft
Average Far Offset	17,898 ft
Surveys Completed	1996

### Phases III and IV

Recording System	1008 channel distributive system
Energy Source	Vibroseis
Spread Geometry	6 lines of 168 channels
Sweep Frequency	6-80 Hz; 6 dB
Receiver Lines	220 ft intervals; 1540 ft apart; N/S
Source Lines	220 ft intervals; 1540 ft apart; E/W
Nominal Fold	3600%
Cell Size	110 x 110 ft
Average Far Offset	18,764 ft
Surveys Completed	1999

## Processing Flow - Poststack

Data initialization
Amplitude recovery / trace editing
3D refraction statics
Surface consistent deconvolution
Spectral balancing
Velocity analysis (1 mile grid)
Residual statics estimation
Time variant trace equalization
3D dip moveout correction
Normal moveout correction
Stack
FXZ deconvolution
3D modified residual migration
Zero phase correction
Final filtering / final scaling

## Processing Flow - EMerge 1

Data initialization
Amplitude recovery / trace editing
3D refraction statics
Noise attenuation
Surface consistent deconvolution
Velocity analysis
Surface consistent residual statics
Surface consistent amplitude correction
Kirchhoff prestack time migration for velocity analysis (0.5 mile grid)
Full volume Kirchhoff prestack time migration
Residual velocity analysis
Final stack
Poststack migration enhancement
Final filtering / scaling
Processing completed January 2008