



# Merlin 3D Survey

## Glenn County, California

### Acquisition Parameters

Acquired	
Survey Size	15.287 sqmi
Recording System	
Sample Rate	2 Milliseconds
Record Length	
Nominal Fold	31
Source	
Source Spacing	165 feet
Source Line Interval	1650 ( Dual Brick )
Source Line Orientation	N-S

### Patch & Box Dimensions

Channels	1260
Spread	10 lines x 126 channels
Patch	8910 feet x 20,625 feet
Group Interval	165 feet
Receiver Line Interval	990 feet
Receiver Line Orientation	E-W
Receiver Array	
Bin Size	82.5 x 82.5 feet

### Generalized Processing Sequence

- 1) Reformat
- 2) Geometry Definition & Application
- 3) Q.C. Surveying/Positioning Data
- 4) Display Field Records & Edit
- 5) 3D Refraction Statics (if necessary)
- 6) Spherical Divergence & Gain Correction
- 7) Surface Consistent Amplitude Correction
- 6) Deconvolution
- 7) Binning of Data
- 8) Regional Velocity Analysis ( 1 mile grid )
- 9) Initial Stacks
- 10) Structural Velocity Analysis ( 1 mile grid )
- 11) 3-D NMO Correction & Stack
- 12) 3-D Surface Consistent Residual Statics
- 13) Velocity Refinement
- 14) Second Iteration of 3-D Surface Consistent Residual Statics
- 15) 3-D DMO Correction
- 16) Velocity Analysis ( ½ mile grid )
- 17) Final Stack
- 18) One Pass Migration
- 19) Final Filtering & Scaling