



# Conestrama 3D Survey

## Contra Costa and San Joaquin Counties, California

### Acquisition Parameters (Eagle Geophysical)

Acquired	January 1999
Survey Size	232.026 sqmi
Recording System	Opseis Eagle
Sample Rate	2 ms
Record Length	5 seconds
Nominal Fold	30
Source	3 lb Dynoseis @ 20'
Source Spacing	220'
Source Line Interval	1760'
Source Line Orientation	N-S

### Patch & Box Dimensions

Channels	
Spread	8 lines x 120 channels
Patch	9,240 x 26,180 feet
Group Interval	220'
Receiver Line Interval	1320'
Receiver Line Orientation	E-W
Receiver Array	4 point podded
Bin Size	110 x 110'

### 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