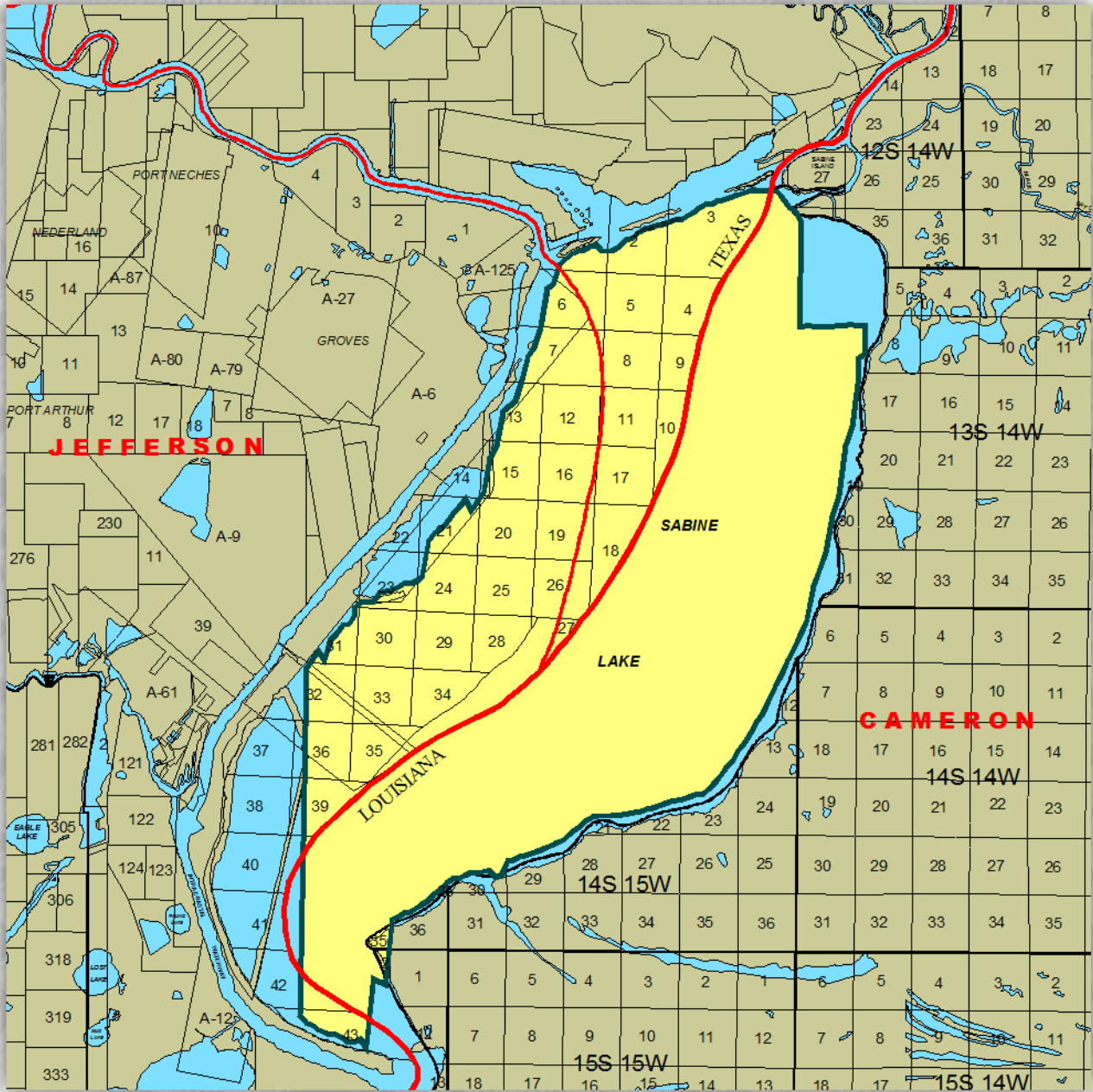
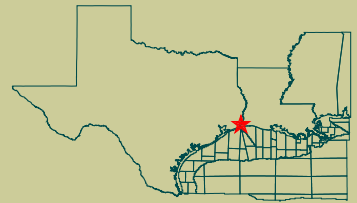


Sabine Lake

Texas/Louisiana Gulf Coast

75.0942 mi²



Geophysical Pursuit 3-D Surveys

GEOPHYSICAL



PURSUIT, INC.

3501 Allen Parkway
Houston, Texas 77019
(713) 529-3000

2895 Highway 190
Suite 227
Mandeville, LA 70471
(985) 727-6720

Sabine Lake

Texas/Louisiana Gulf Coast

75.0942 mi²



Acquisition Parameters

Contractor: Western Geophysical (#321, 374 & 375) – Sep-Dec 1997
Acquisition Patch: 2 Rx line x 180ch Inline swath
Receiver Lines: N/S @ 2640ft
Receiver Interval: 220ft
Source Lines: N/S @ 220ft
Source Interval: 110ft
Energy Source: air gun; 1500in³ & 640in³
Bin Size: 55 x 110 ft
Nominal Fold: 96
Average Far Offset: 19,800ft
Recording System: Sercel 368 / OpSeis Eagle
Record Length: 8 seconds @ 2ms/4ms
Available: May 1998

Processing: 1998 PoSTM by Western Geophysical

1. Convert, demultiplex & resample to 4ms
2. Geometry verification & trace edits
3. Spherical divergence compensation
4. Instrument response removal
5. Surface consistent deconvolution
6. Zero phase deconvolution
7. Preliminary velocity analysis @ 1 mile
8. Surface consistent residual reflection statics – 1st pass
9. Zone anomaly processor
10. Post statics velocity analysis @ ½ mile
11. Surface consistent residual reflection statics – 2nd pass
12. Surface Consistent Amplitude Compensation (SCAC)
13. Residual Amplitude Analysis Compensation (RAAC)
14. Noise attenuation (CMP ZAP)
15. DMO velocity analysis @ ½ mile
16. 3D Kirchhoff DMO stack
17. Deconvolution
18. 3D Random Noise Attenuation (FXY decon RNA)
19. 3D FXY cross line interpolation to 55 x 55 ft bins
20. RAAC
21. Modified Residual PostStack Time Migration
22. Time variant filter & scaling

Available Products:

- A. Geometry Gathers
- B. PostStack Time Migration Volume

PreStack Time Migration (Feb 2004 - TriCon)

1. Trace edit of dead or noisy traces
2. Geometry definition and verification
3. Spherical divergence correction
4. Surface consistent spiking deconvolution (240 ms operator)
5. Refraction statics correction
6. Initial velocity analysis (2mi grid)
7. 3D surface consistent residual statics
8. Second velocity analysis (½mi grid)
9. CDP consistent trim statics (max shift of 2 samples)
10. Whole trace balance
11. PreStack migrated velocity analysis (½mi grid)
12. Kirchhoff PreStack curved-ray migration
13. Residual migrated velocity analysis (½mi grid)
14. Normal move out correction
15. Mute
16. Stack

Available Products:

- A. KPrSTM stack volumes
 - a. RAW
 - b. AGC
 - c. RAP
- B. KPrSTM gathers – RAW w/ NMO

PreStack Time Migration (Apr 2004 - GeoCenter)

1. Geometry application/QC
2. Trace edit and QC
3. Spherical divergence correction
4. Surface consistent gain correction
5. Surface consistent deconvolution
6. Surface wave attenuation for low velocity noise
7. Datum static (vel 6000ft/sec)
8. Residual Statics (dual pass)
9. Gain correction offset term
10. Kirchhoff PreStack Time Migration (4th order)
11. Radon multiple attenuation
12. Normal moveout correction
13. Mute
14. Stack

Available Products:

- A. Final KPrSTM stack volume
- B. PrSTM NMO corrected gathers + PRT w/o mute

