



LIBERIA (PSTM)

MULTI-CLIENT 2D SURVEY, 9,382 km

ACQUISITION PARAMETERS

Acquisition Date: August 2000-January 2001
Data Acquired By: COOGC
Shooting Orientation: 2D, Strike & Dip
Recording Instrument: Syntrak 24-bit RDA
Streamer Type: Digital Syntrak
Streamer Positioning: DGPS
Airgun Source: 3680 cubic inches
Gun Depth: 7.5 ± 1.5 meters
Shotpoint Interval: 37.5 meters
Group Interval: 25 meters
Recording Channels: 288
Streamer Depth: 9 ± 1.5 meters
Streamer Length: 7200 meters
Record Length: 10 seconds
Sample Interval: 2 milliseconds
Nominal Fold: 96

PROCESSING SEQUENCE

- Data processing performed by: Geophysical Development Corporation – Oct 2001
- Resample 2ms to 4ms – output tape
- Spherical divergence
- Radon using water velocity (water bottom time >500ms)
- Velocity analysis every 2km
- Radon using water velocity (water bottom time >500ms) – output tape
- Deconvolution – single design gate, 31 traces averaged for operator design, 320ms operator, 32ms gap
- Velocity analysis every 2km after initial Kirchhoff migration
- Kirchhoff pre-stack time migration (32 offsets)- output tape
- Velocity analysis every 1km
- Stack - output raw migration
- Time-variant filtering, FX deconvolution and relative amplitude scaling applied to migration-output processed migration
- Angle Stack processing performed by TGS-Imaging, Houston Texas (2009)
- Input Radon gathers from 2001 processing
- Kirchhoff pre-stack time migration
- Residual velocity and ETA
- Angle stack mutes (Near: 0-18 Mid: 18-36 Far: 36-53 degrees)
- dB gain correction – output angle stacks

AVAILABLE DELIVERABLES

- Raw field data/shot ordered (SEGD)
- Field data with 2D geometry (no XYs)/shot ordered (SEGY)
- Radon de-multiple (no XYs)/shot ordered (SEGY)
- Pre stack time migrated CDP gathers without NMO (12.5m, 36 fold)
- CDP gathers only on velocity locations (every 1 km)
- Raw migration
- Processed migration
- Processed migration-structure enhancement
- Angle stacks (near, mid and far – created 2009)
- Stacking velocities (ASCII)
- Migration velocities (ASCII)
- Gravity and magnetic data
- Processed source-receiver navigation -UKOOA
- Post stack navigation - UKOOA
- Workstation-ready tapes available in SMT, Landmark, and Geoquest
- Interpretation report (hard copy of report and electronic copy of interpretation)

