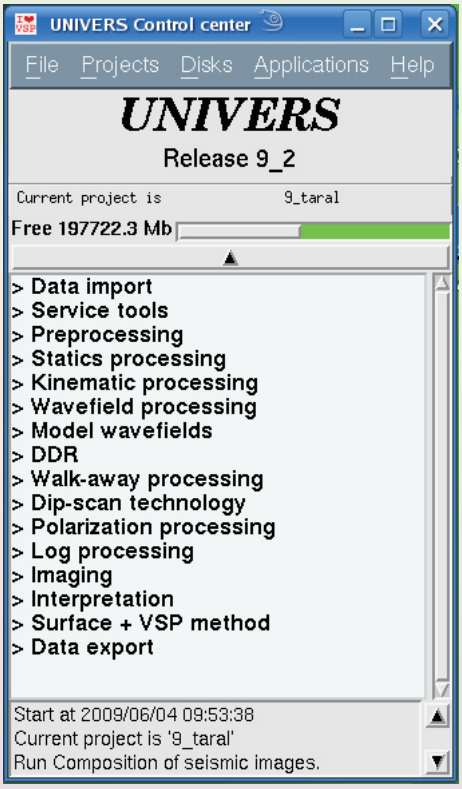
UNIVERS seismic processing and interpretation software



General procedures

- Model based geometry designing
- Preprocessing of LOG data
- POLYCOR static correction
- Signal processing
  - noise attenuation
  - model based iterative wave separation
  - filtering
  - polarization
  - correlation of seismic events
  - signature and statistically consistent deconvolution
- Velocity inversion
- Anisotropy estimations
- Absorption estimations
- Ray modeling and migration
- Finite-difference modeling and vector migration
- Inversion
- Interpretation

Services

- Check shot VSP
- Zero offset and far offset VSP
- 2D VSP (walkaway), 3D VSP
- 2D+VSP, 3D+VSP combined observations
- Surface 2D, 3D processing
- Anisotropy applications
- Absorption applications

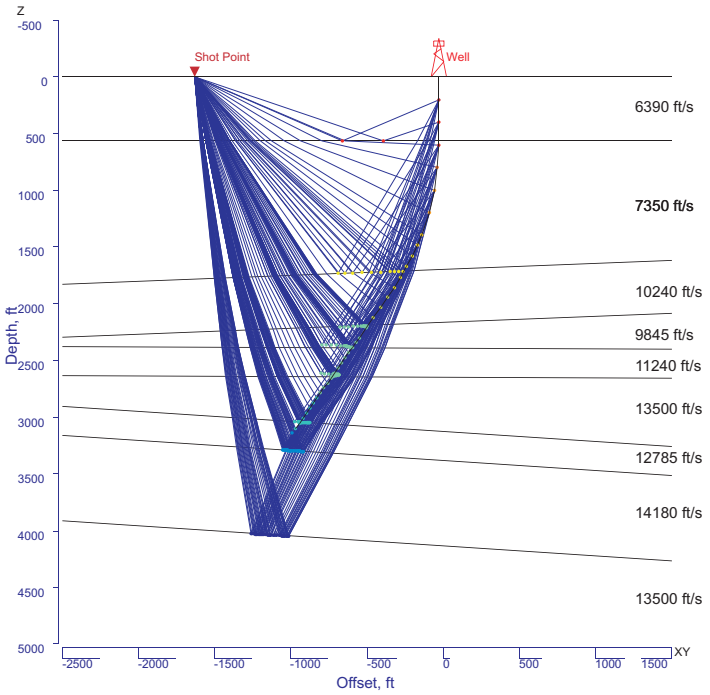
System platform

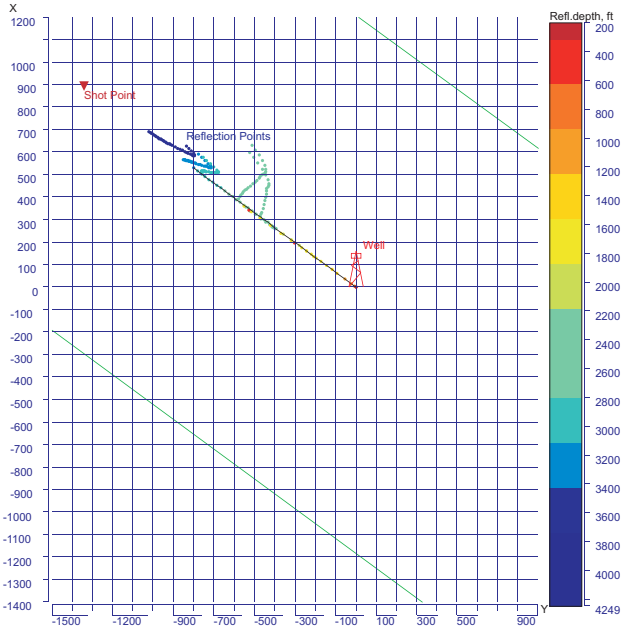
- Linux (IA32, AMD64), Solaris (SPARC) — main processing
- MS Windows XP — field processing and report graphics preparation
- Simple maintenance
- No need for special 3rd party software

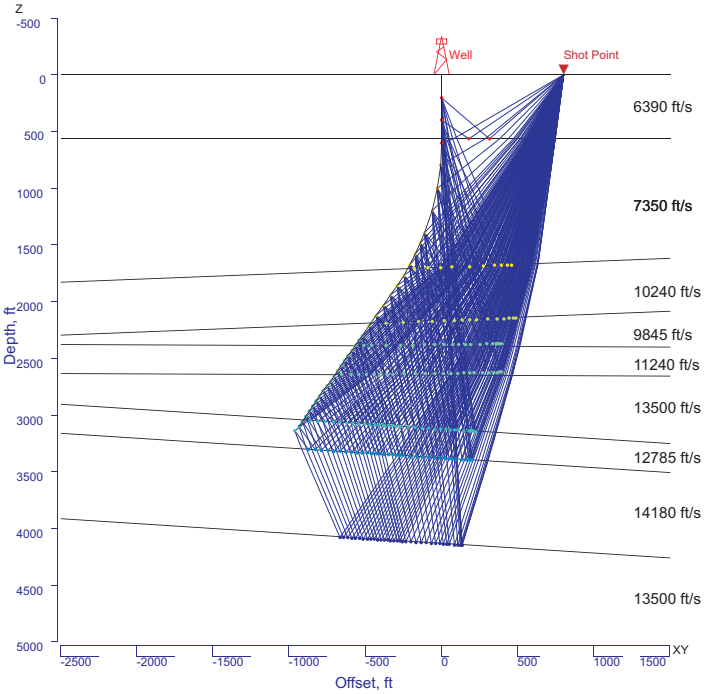
Acquisition system design

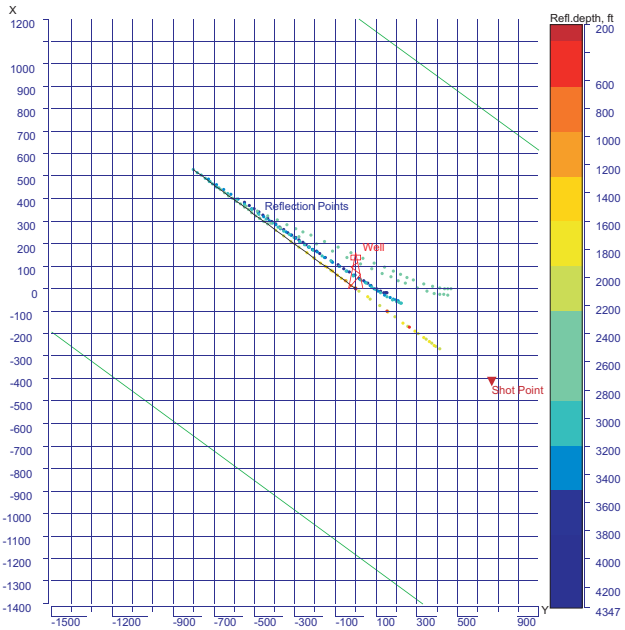
Features:

- Based on 3D velocity model
- Both ray tracing and synthetic seismic modeling
- Monotype and converted P/S reflections
- Arbitrary vertical slice and X-Y plane view



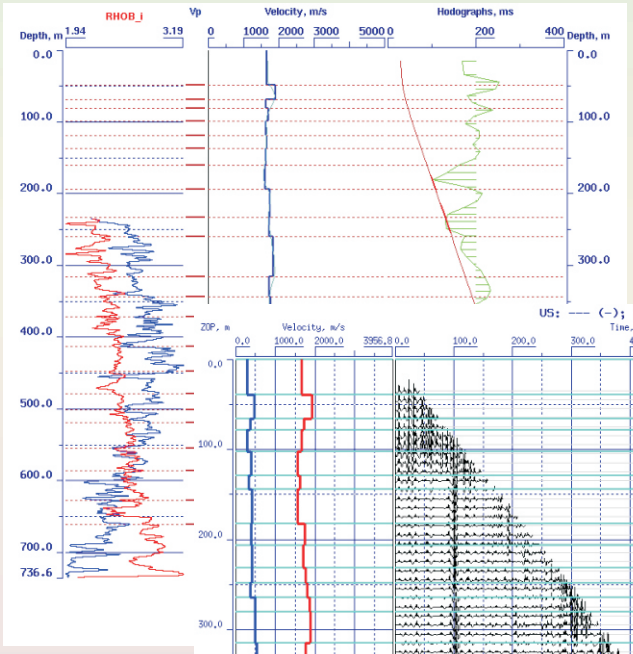




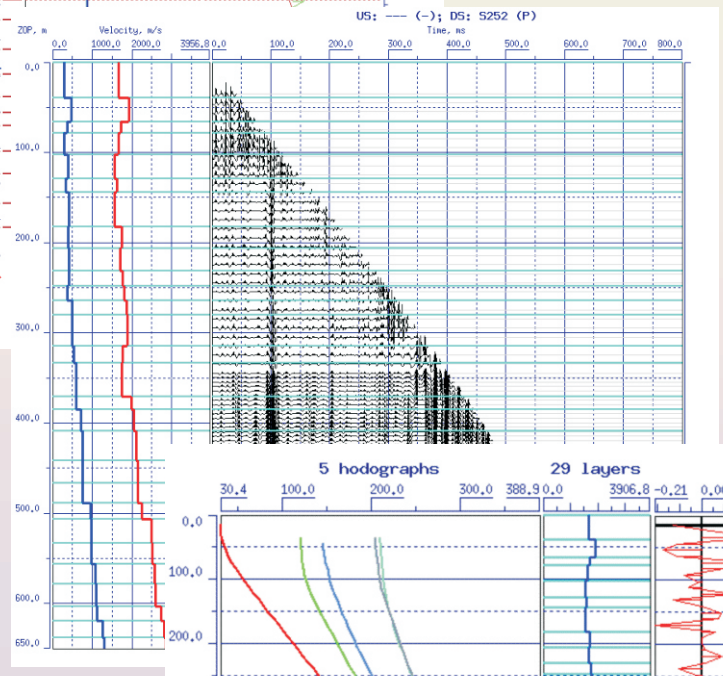


Velocity model operations

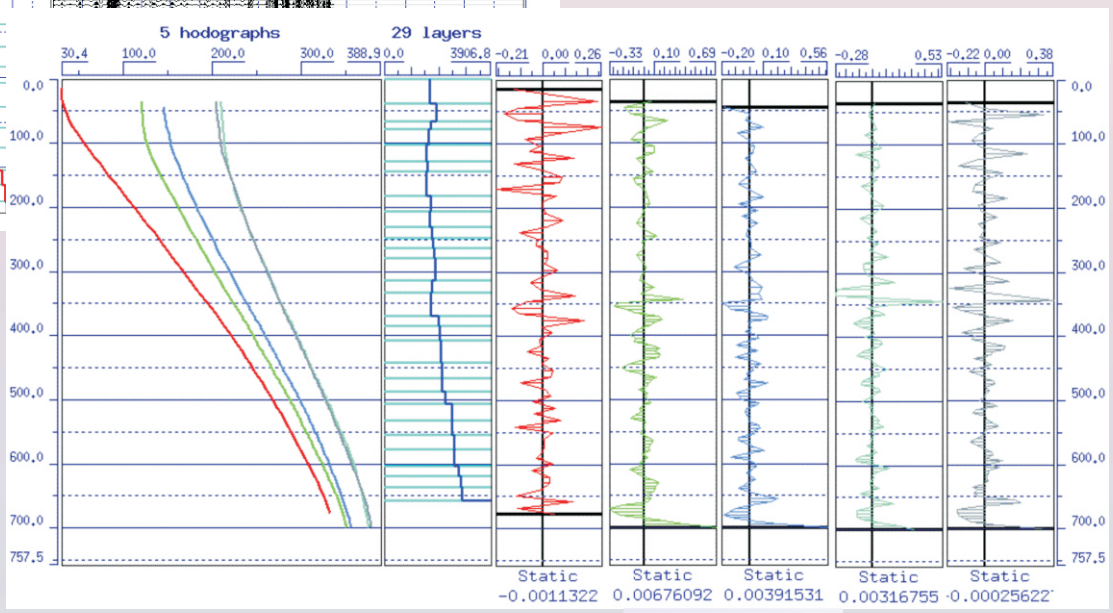
Layering and zero offset velocity model tuning



Shear velocity tuning



Inverse kinematic problem solution for multiple offsets



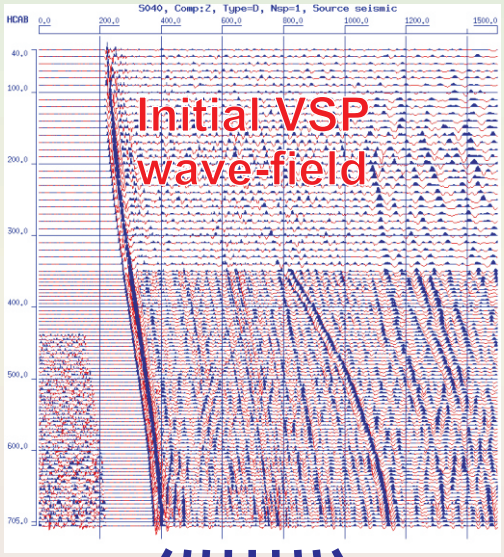
Further objectives:

Automatic wave separation
Imaging
Tie to LOG and CMP data
2D velocity model
3D velocity model

Automatic wave separation

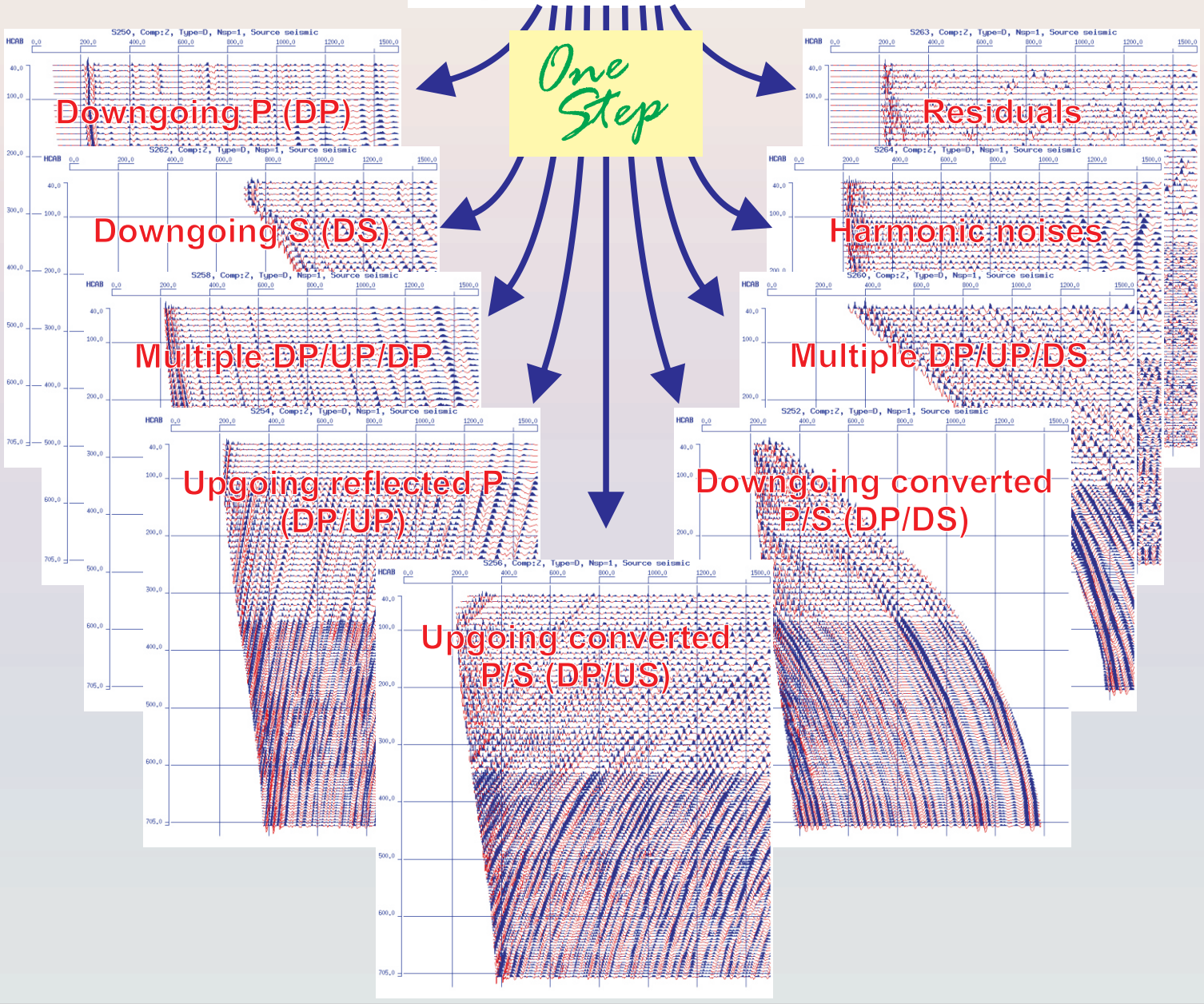
Specifics:

- Model-based
- 3C
- Adaptive
- Iterative
- Noise aware
- 2D/3D VSP

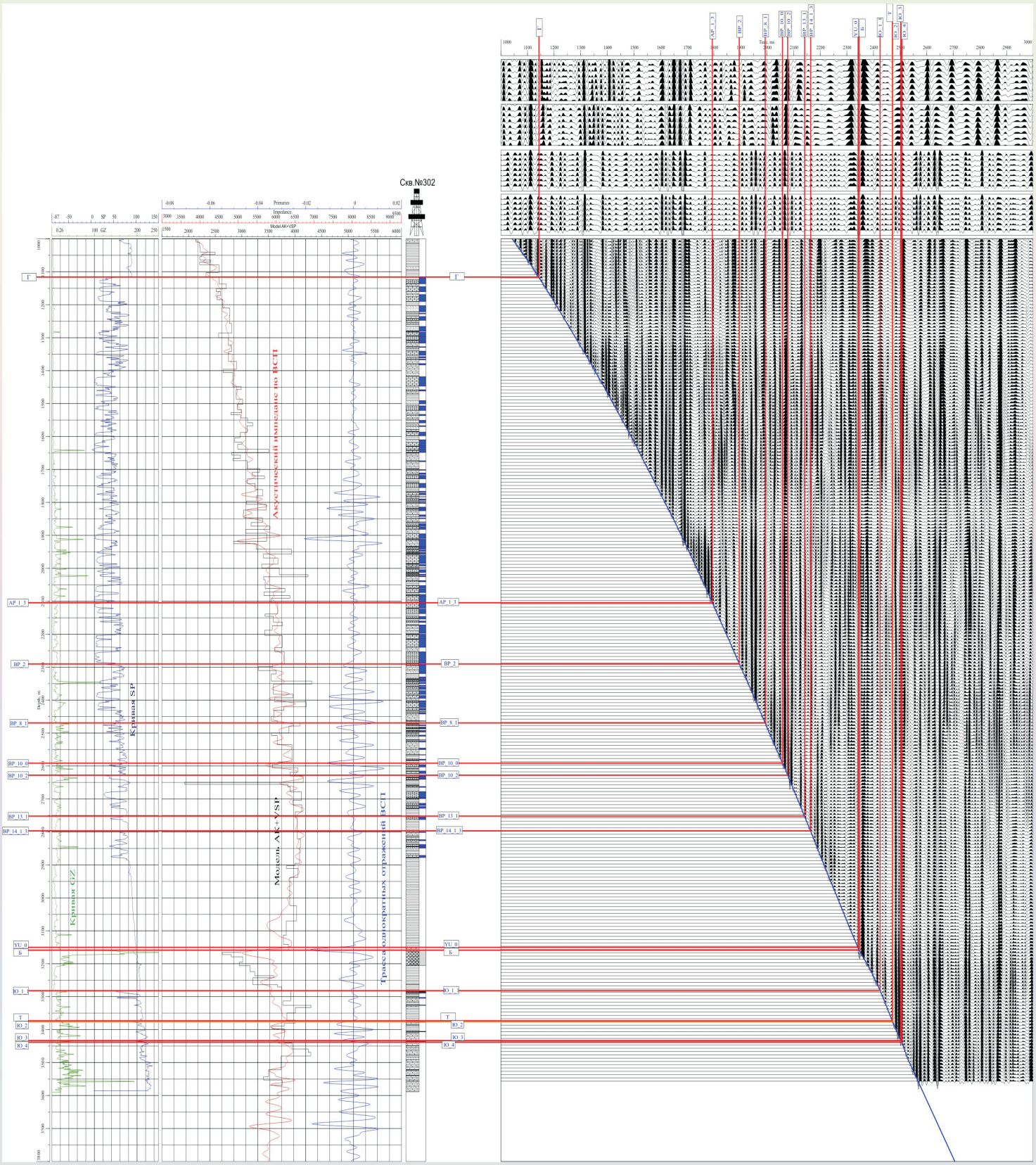


Your benefits:

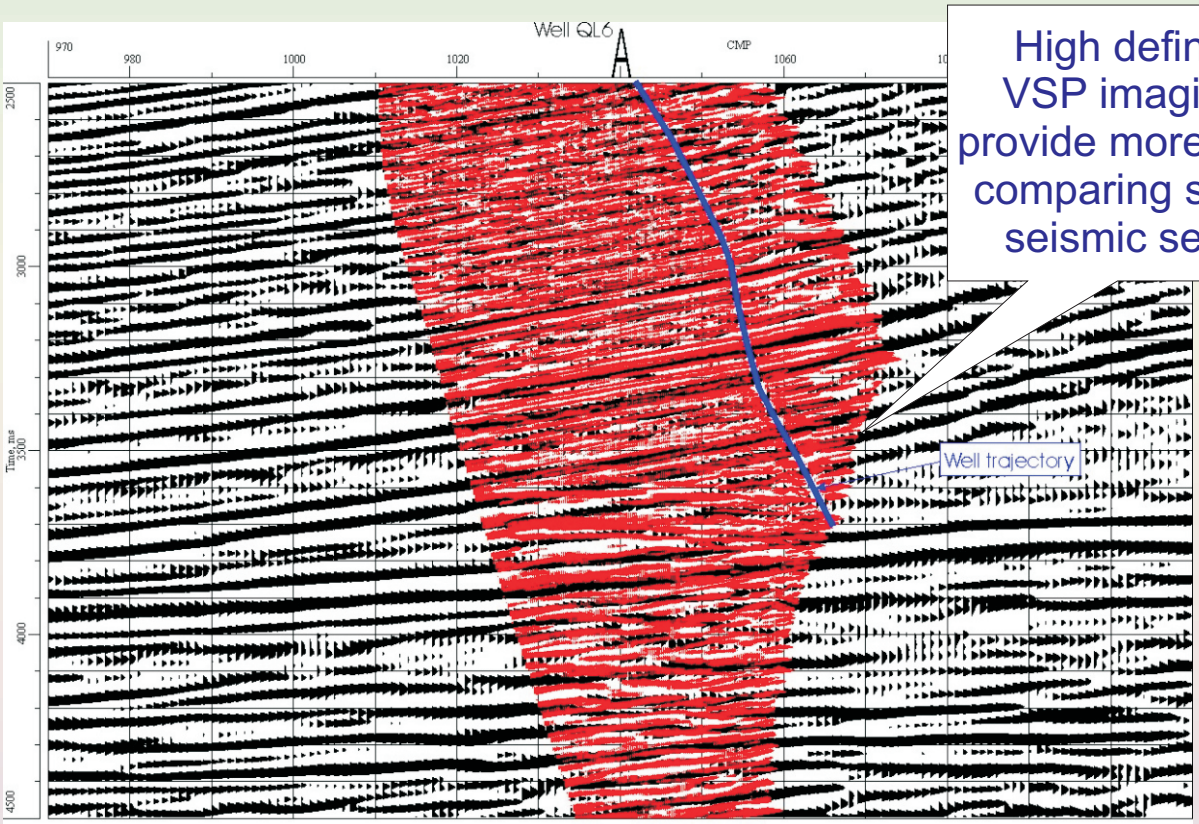
- Precise wave separation
- Easy to use
- Fast processing
- Ultimate results
- Model check



Precise tie of CMP section to LOG via VSP



Imaging and interpretation



High definition VSP imaging to provide more details comparing surface seismic section

VSP seismic image (P-waves) superimposed over CDP image in the time scale

Horizons correlation, map composition with horizons and their attributes