VELOCITIES, MIGRATION, DMO AND VELOCITY MODEL BUILDING

17 - 21 MARCH 2014 | KUALA LUMPUR
Course Description
Velocity is one of the most important parameters that can be derived from seismic data. Velocity values are indicative for layer identification and thus convey rock properties. Moreover, velocities relate the seismic measurements that are in (two-way) traveltime to the end product of seismic data processing, i.e. the depth picture of the subsurface that can be obtained via migration or seismic imaging.

New developments in acquisition geometries enable the determination of velocities with greater accuracy and also requires taking into account anisotropy. The relationships between elastic constants and velocities are explained; this includes the phenomenon of anisotropy. In the end it is the wave equation that describes all wave propagation phenomena. Different types of velocities play a role during the processing sequence; stacking and migration being the most important ones. Migration or seismic imaging is the typical end product of conventional seismic data processing. The process of migration, whereby a proper image in time or depth of the subsurface is obtained, is directly related with the velocity model that both serves as input for the migration process as well as is the result of such a migration. Therefore migration and velocity model building are intimately related processes. DMO (dip moveout) can be considered as an intermediate process; it contains elements of migration and can be used in velocity model building. The implementation of migration is characterized by a multitude of methods and algorithms; there is also a variety of methods to build a velocity model. By the same token there is a number of DMO algorithms.

This course gives an overview of all aspects of velocity that one encounters during seismic data processing, of the migration principles, methods and algorithms, of the velocity model building principles and methods as well as of the different DMO algorithms. In addition VSP data acquisition and processing will be discussed. During and at the end of the course, a number of representative case studies and examples will be shown to illustrate the material covered during this course.

By participating in this 5 day training course, participants will get a full understanding and appreciation of:
- The different types of velocity and corresponding methods for their measurement, especially interval velocities and their relationship with rock properties and prestack depth migration.
- Become familiar with the different methods of migration and their subsequent implementation.
- Judge the strong and weak points of each algorithm and select their proper parameters.
- Select and apply the method that is most appropriate for velocity model building based on the data, pre-processing results, geological information and stated objectives.

The following topics will be discussed in this 5 day training course:
1. Developments in acquisition geometries and their impact on seismic data processing
2. Elastic constants, rock physics and wave propagation velocities
3. The wave equation and its applications
4. Anisotropy, specifically velocity anisotropy
5. Overview of the seismic data processing practice
6. Velocity analysis, stacking and stacking velocities
7. Migration or seismic imaging: methods and algorithms
8. DMO: principle and applications
9. Velocity model building: methods and algorithms
10. VSP: acquisition, processing and application for velocity determination
11. Case studies/Examples:
   - Tomography
   - Full wave inversion
   - Velocity model building
   - Parametric velocity estimation

Learning methods and tools:
This course includes theory, practicalities, exercises and case studies/examples; a handout that covers all course material will be made available.

Who Should Attend
Geologists and petrophysicists who need to understand how the various types of velocity information can be derived from seismic data and who need to understand how subsurface images are generated.
1. Developments in acquisition geometries and hardware
   - Acquisition geometries
   - Acquisition parameters
   - Spatial sampling
   - Arrays and point receivers
   - Data partitioning and offset vector tiling (OVT)
   - New developments in receivers:
     - MEMS (micro electro-mechanical system) devices
     - Dual-sensor cables - GeoStreamer (PGS)
     - Variable depth streamer – Broadseis (CGGVeritas)
     - ObliQ – sliding notch acquisition (Schlumberger)
     - UniQ – point receivers (WesternGeco)
     - Isometrix – multi-sensor towed streamer (WesternGeco)
   - New developments in sources:
     - Low-frequency and high-frequency vibrators
     - Productivity enhancement for vibrator seismic (e.g. Slip sweep)
     - Time and depth distributed source – geosource (pgs)
     - Low frequency sources
     - Simultaneous sources (blended seismic)
   - New developments in acquisition geometries:
     - Multi-azimuth (MAZ) and full-azimuth (FAZ) marine seismic
     - Coil shooting
     - Long offsets

2. Stress-strain relationships and elastic constants
   - Deformation and the strain tensor
   - Traction and the stress tensor
   - Stress-strain relations: Hooke’s law
   - Symmetry properties of the strain tensor, stress tensor and strain-stress tensor
   - The equation of motion and the wave equation
   - Definitions of elastic constants
   - Relationships between elastic constants

3. The wave equation, wave phenomena, rock physics and the Gassmann equation
   - The acoustic wave equation
   - The elastic wave equation
   - P-waves and S-waves
   - The boundary conditions
   - Rock properties
   - The Gassmann equation to calculate effects of fluid substitution

4. Anisotropy
   - Introduction and definition of anisotropy
   - The stress tensor, the Voigt notation and symmetries
   - Plane wave solutions and the Christoffel equations
   - Phase velocity and group velocity
   - Relationship between Wave surface and Slowness surface
   - Measurement of group velocity and phase velocity
   - Raytracing, reflection and transmission in anisotropic media
   - Shear-wave splitting
   - Definitions pertaining to anisotropy
   - Transverse isotropy (TI):
     - Angle dependency of velocities in VTI (Vertical TI) media
     - Thomsen’s notation for weakly anisotropic media
     - Crack and fracture properties
     - VTI parameters for finely layered media (Backus averaging)
     - Angle dependency of reflection and transmission coefficients
     - HTI (Horizontal TI) and TTI (Tilted TI) media and azimuthal anisotropy
     - Anisotropy from seismic survey design and processing

5. Overview of data processing
   - The processing sequence
   - Various types of velocities: definition and way of measurement
   - Stacking velocities: behaviour and determination
   - Signal analysis and deconvolution
   - Principles of blended data processing

6. Velocity analysis
   - Definitions of various types of velocity
   - Traveltom expressions for paraxial rays
   - Velocities and wavefront curvatures
   - Stacking, moveout analysis and stacking velocity
   - The normalized crosscorrelation coefficient NCC
   - Semblance, differential semblance and the eigenvalue method
   - NMO stretch
   - Coherency inversion for stacking and velocity model building
   - Relationships between stacking, dmo and time migration
   - The common-reflection-surface (CRS) stack
   - Analytical time-depth relationships

7. Migration or imaging
   - Migration, modelling and inversion
   - Geometric approach to migration
   - Examples
   - Resolution before and after migration
   - Aliasing
   - Ray definitions
   - The Dix equations
   - Definition of time migration and depth migration
   - The acoustic wave equation
   - Factorization of the wave equation
   - Forward and inverse wavefield extrapolation in depth
   - Migration principles; the imaging conditions
   - Migration of various data sets:
     - Shot profile migration
     - Survey sinking or redatuming
     - Zero-offset data migration
   - Migration algorithms:
     - (k,f)-migration (Stolt)
     - Phase-shift migration (Gazdag)
     - Phase-shift-plus-interpolation (PSPI) migration
     - Split-step-Fourier (SSF) migration
     - Extended split-step Fourier (ESSF) migration

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8. DMO (dip moveout) and PSI (pre-stack imaging)
- Definition, effects, objective
- The DMO impulse response
- DMO coverage; regularization; DMO and inverse DMO
- PSI (pre-stack imaging) and EOM (equivalent offset migration)
- Algorithms
- Generalized data mapping

9. Velocity model building
- Minimal data sets and common image gathers – CIG’s
- Iterative velocity model building with CIG’s
- The migration conditions
- Migration and traveltime inversion
- Migration and demigration
- Normal incidence wavefront curvature and stacking velocity
- Velocity model parameterization

- Velocity model building methods:
  - Coherency inversion or model based stack
  - Map migration
  - Dynamic map migration (dmm) or curvature inversion
  - Stereotomography
  - Traveltime inversion (tti)
  - Traveltime inversion in the migrated domain (timd)
  - Tomographic velocity model building
  - Depth focusing analysis (dfa)
  - Common focus panel (cfp) analysis
  - Full waveform inversion (fwi)

10. VSP seismic
- VSP acquisition geometries
- The processing sequence for VSP data:
  - Wavefield decomposition
  - Deconvolution
  - Migration
- VSP data matching with surface seismic and with well data

11. Case studies – Examples
- Tomography
- Full wave inversion
- Velocity model building
- Parametric velocity estimation

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- Shell Eastern Petroleum
- Shell MDS (Malaysia)
- Shell Saudi
- Sime Darby Plantation Sdn Bhd
- Singapore Petroleum Co.
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