



Disclaimer

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All figures in US\$ unless otherwise specified.



INFO GEOSCIENCES TECHNOLOGY AND SERVICES, HOUSTON TX

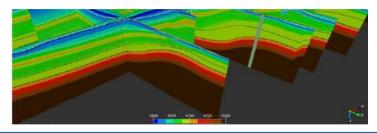
Seismic Reprocessing VMM-18, 2021

Objectives:

- ✓ Time to depth conversion and derived properties
- ✓ Estimation of elastic properties through inversion of seismic amplitudes and characterization of reservoir properties
- ✓ Seismic reprocessing of the 3D volume
- ✓ Seismic inversion and reservoir estimators in 3D cube

<u>Technical Team</u>:

- ✓ Info Geosciences technicians.: Miguel Bosch / Raul Colmenares / Adriana Moreno
- ✓ NSE: Arturo Lara / Juan F. Arminio

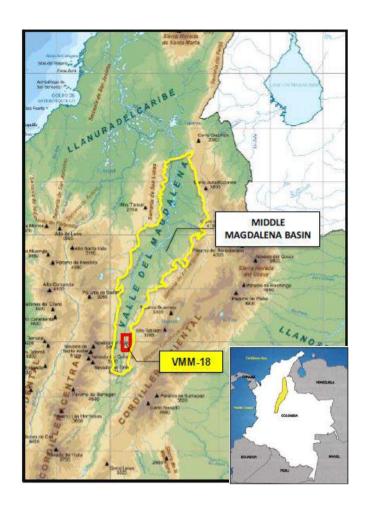




Regional Geology and Location of VMM-18 and seismic and well data

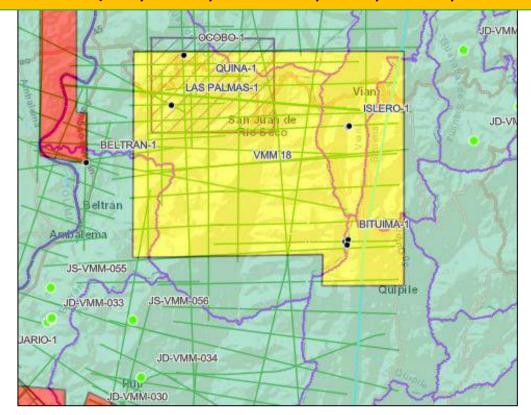


VMM-18 Location; Seismic & Well data



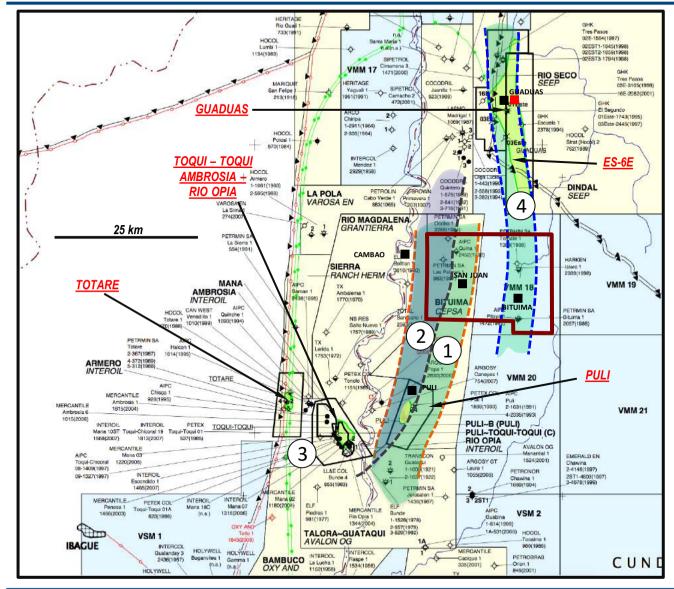
Seismic reprocessing 2021 database available:

- 25 2D-Seismic lines (~400 km)
- 60 km² 3D-cube 2013
- Wells: Quina; Ocobo; Las Palmas; Islero; Beltran; Bituima





Oilfields, Play Trends and Infrastructure



Oilfield



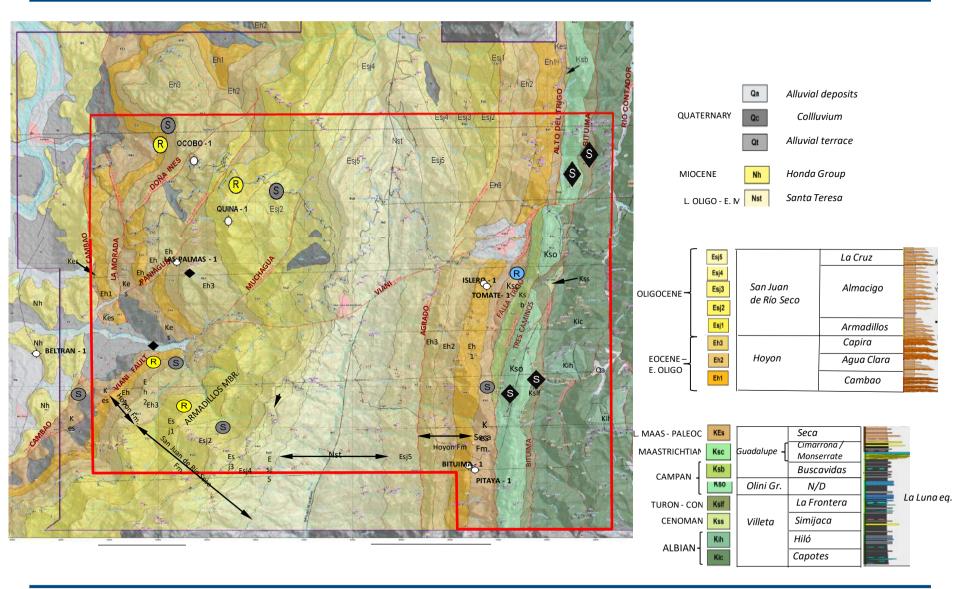
- GUADUAS DELIVERY POINT
- TOWN

Play trends

- Puli type thrust play: light oil in Guadalupe sands
- Sub thrust play: light / medium oil in Paleogene sands
- Toqui Toqui-type shallow thrusts play medium oil in Tertiary clastics
- Guaduas type
 heavy and light oil
 in fractured Cimarrona
 carbonates

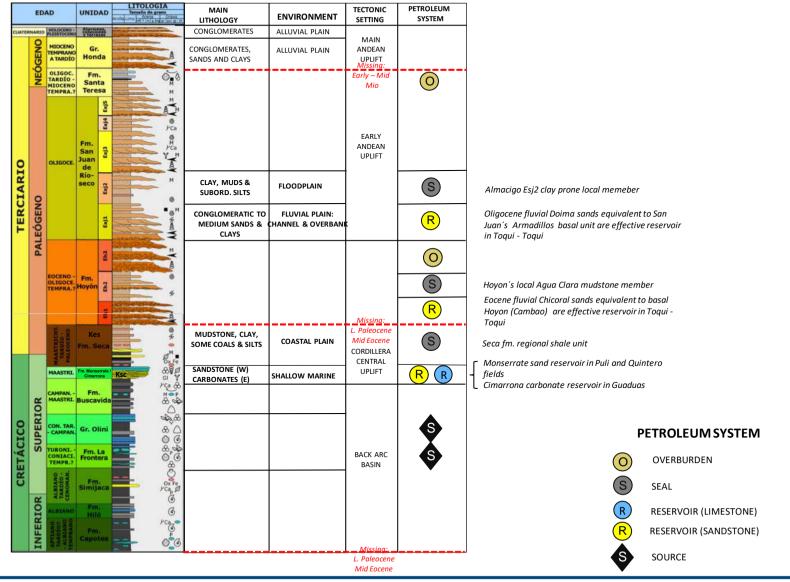


VMM-18: Surface Geological Map



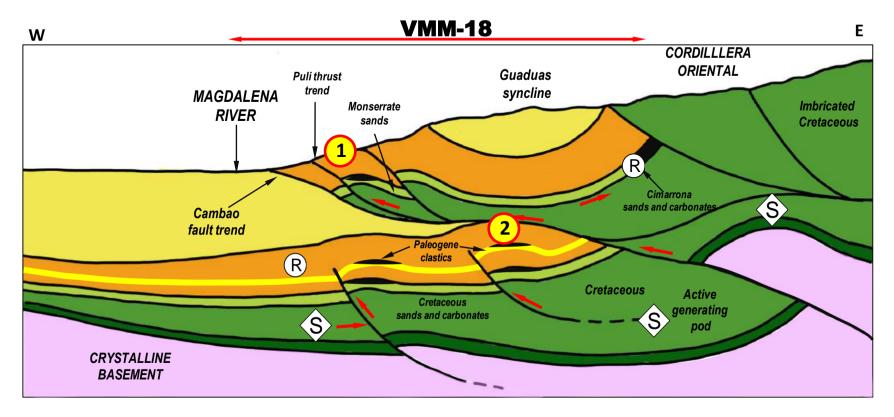


Stratigraphy of the Southern VMM





Structure & Play concepts of the Southern VMM



VMM-18 Block is an attractive asset with three main prospects and leads located in the Puli and Dindal-Rio Seco proven hydrocarbon trend of the VMM basin

- 1 Hercules & Hercules Norte Prospects
- Cigarra Prospect > Sub thrust play (light/medium oil in Paleogene sands)

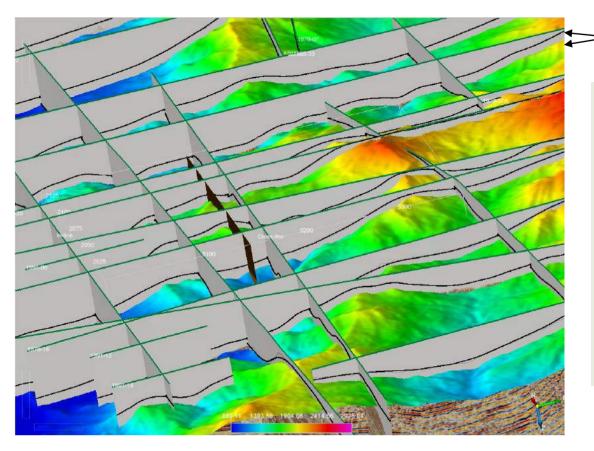


Seismic Reprocessing activities

- ✓ Review and upload of seismic data.
- ✓ Review and treatment of well data.
- ✓ Review of vertical adjustments
- ✓ Interpretation of relevant horizons for the elaboration of the seismic velocity model.
- ✓ Elaboration of the prior model of compressional wave velocities (Vp).
- ✓ Characterization of elastic, density and reservoir properties based on available well information.
- ✓ Elaboration of the prior model of shear wave velocity (Vs) and mass density.
- ✓ Transformation of the vertical dimension from time to depth of the seismic.
- ✓ Seismic reprocessing of the 3D volume, starting from field data until PSTM migration.
- ✓ Inversion of data from 2D seismic lines and 3D seismic volume for the estimation of elastic properties and mass density.
- ✓ Estimation of lithology and porosity.
- ✓ Analysis of seismic sensitivity to fluids.
- ✓ Time-to-depth transformation of elastic and reservoir properties.



Seismic 2D: vertical adjustment



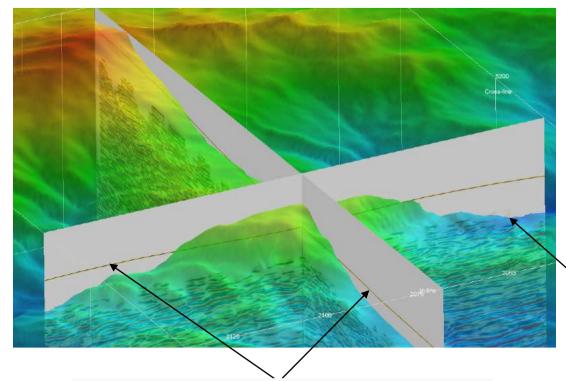
Landmark in seismic is not consistent with elevation map

• The nominal datum of 1800m-msl, the nominal replacement velocity of 3400 m/s are inconsistent with the actual elevations of the wells, seismic surface and digital elevation map of the area.

The seismic sections in time and depth have a vertical position difference with the elevation map, which required a detailed study, analysis and correction.



3D Cube Vertical Adjustment



Surface elevation is very smoothed compared to the real one

Terrain elevations in the 3D cube show two problems:

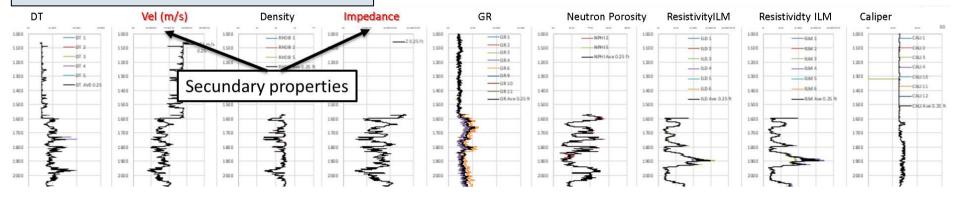
- The surface elevation profile was exaggeratedly smoothed for seismic processing
- There is an average downward shift of the actual elevation map.

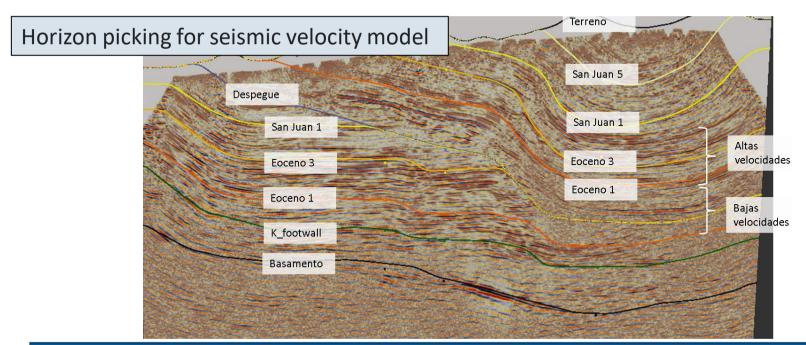
On average the true elevations are displaced down from respect to the used in the processing



Seismic Reprocessing Process

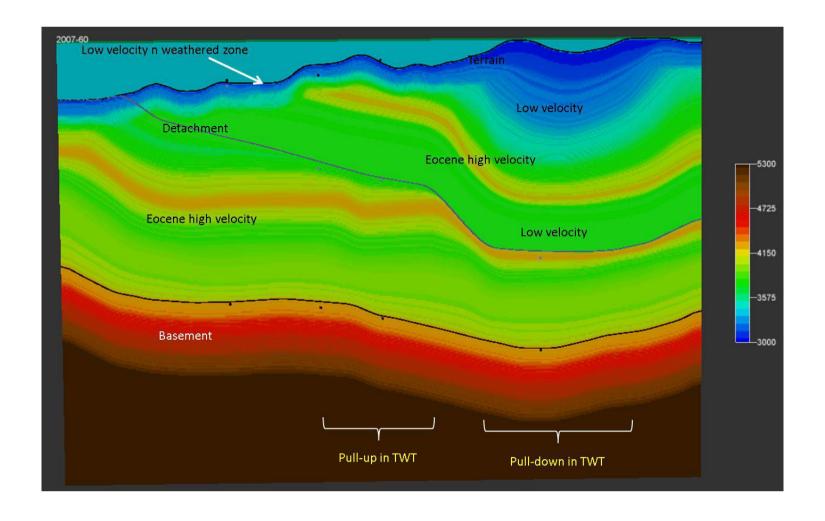
Well data compilation & treatment







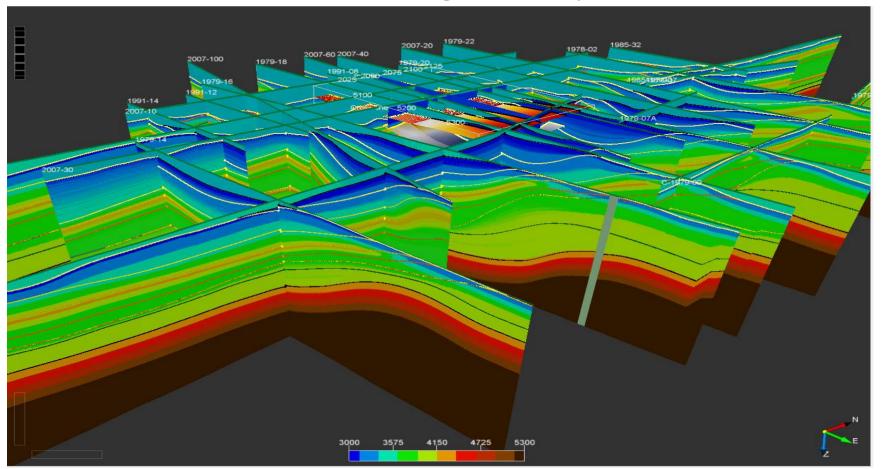
Seismic Velocity Model 2D-3D





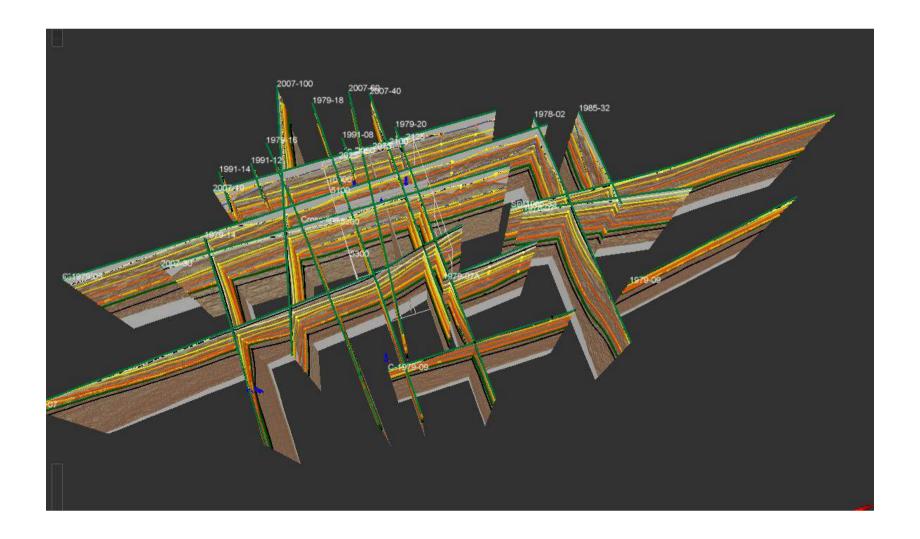
Seismic Velocity Model Extrapolation

2D &3D seismic integrated velocity model



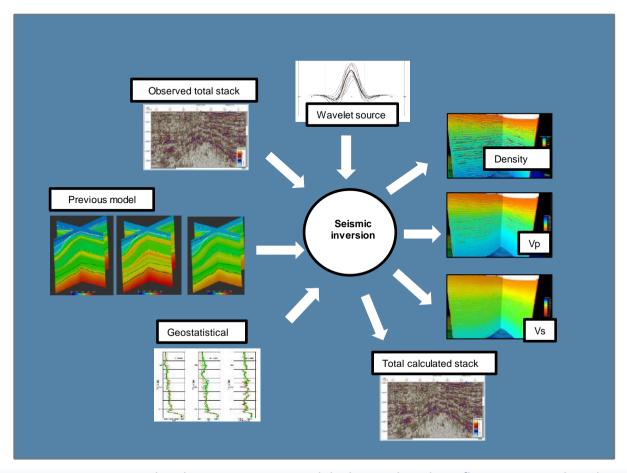


Time to Depth conversion PSTM 2D & 3D cube





Elastic Inversion of Seismic Data

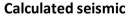


The seismic inversion estimates the elastic parameter models that explain the reflectivity in total stacking, or various stacks by incidence angle ranges. The seismic calculated from the estimated model reproduces the observed seismic, except for residuals due to noise or anomalous amplitudes of the processing. The inversion was calibrated by validating the source wavelet in pilot tests, and the spatial covariance of the properties in the well was characterized

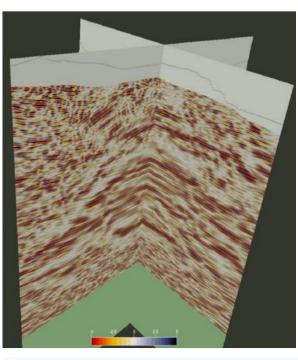


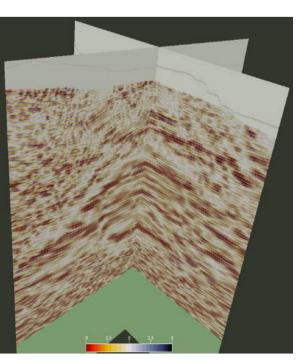
Seismic inversion Vp, Vs & Density (3D)

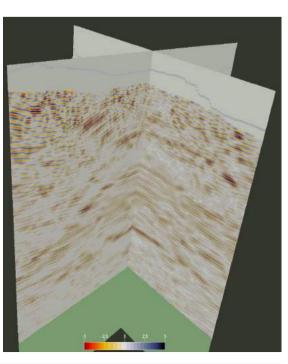
Observed seismic



Residual seismic





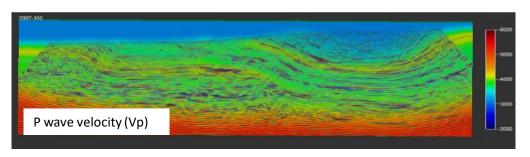


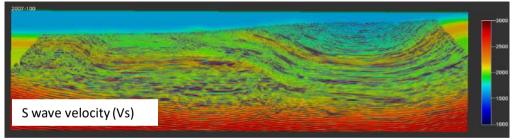
The seismic calculated from the estimated properties reproduces the observed seismic, leaving noise and anomalous amplitudes in the residue.

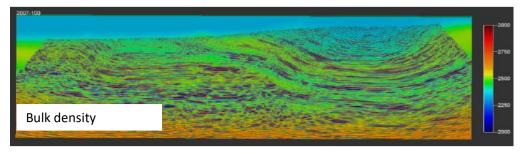
A source wavelet with a dominant frequency of 35Hz and zero phase in SEG standard polarity was used - positive impedance contrasts produce negative reflections



Seismic Inversion - Estimated Properties







The seismic inversion technique allows estimating the elastic properties of the medium that explain the observed seismic reflections. The reflectivity is calculated by the well-known Zoeppritz formula; an advanced estimation algorithm is used taking into account the previous information on the elastic properties and the source seismic wavelet.

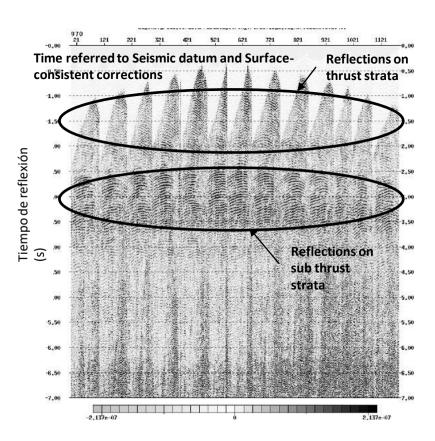


Pre-stack Signal Enhancement Process

a) Raw shot example

Receptor # for shot 970 Time referred to shot Tiempo de reflexión Surface waves Decay of the amplitude of 4.50 reflections with time Noise

b) After pre-stacking process



Pre-stacking data preparation in common shot domain corrects for time shifts due to surface and retains the signal from primary reflections while attenuating other recorded components: such as surface waves and ambient noise.

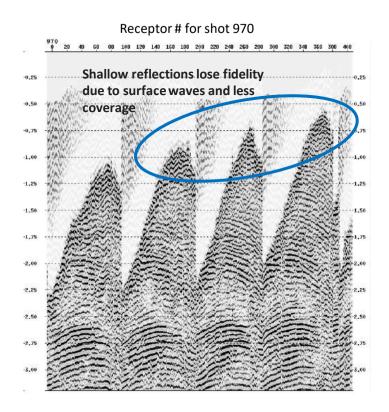


Pre-stack Signal Enhancement Process

a) Raw shot example

Receptor # for shot 970 Surface waves and noise mask reflections Topography effect Tiempo de reflexión on reflector

b) After pre-stacking process

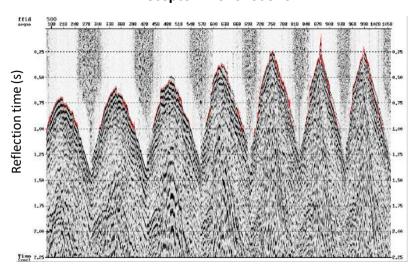


Pre-stacking data preparation in common shot domain corrects for time shifts due to surface and retains the signal from primary reflections while attenuating other recorded components: such as surface waves and ambient noise.



Time Correction for Terrain Elevation and Shallow Layer Velocities

Receptor # for shot 970



First arrival selection

An algorithm based on the energy arrival time is used for the automatic selection of the first arrivals for all shots.

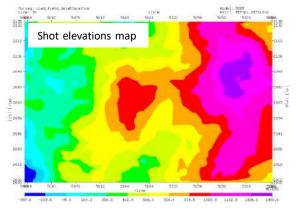
This selection is the basis for a refraction analysis that allows estimating the velocities of the first two layers of the soil and removing effects close to the source and receiver.

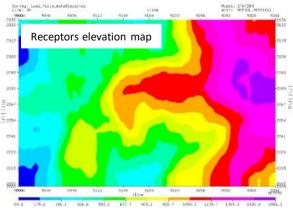
These first arrivals, together with the data of elevations and positions of receivers and shots are used for the joint estimation of the following time corrections:

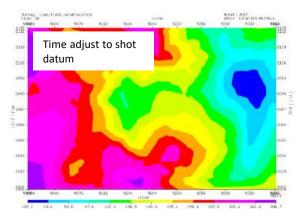
- By receiver elevation
- By elevation shot
- By receptor soil layer
- Per ground layer shot

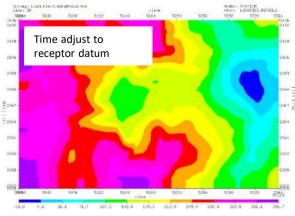


Time Correction for Terrain Elevation and Shallow Layer Velocities









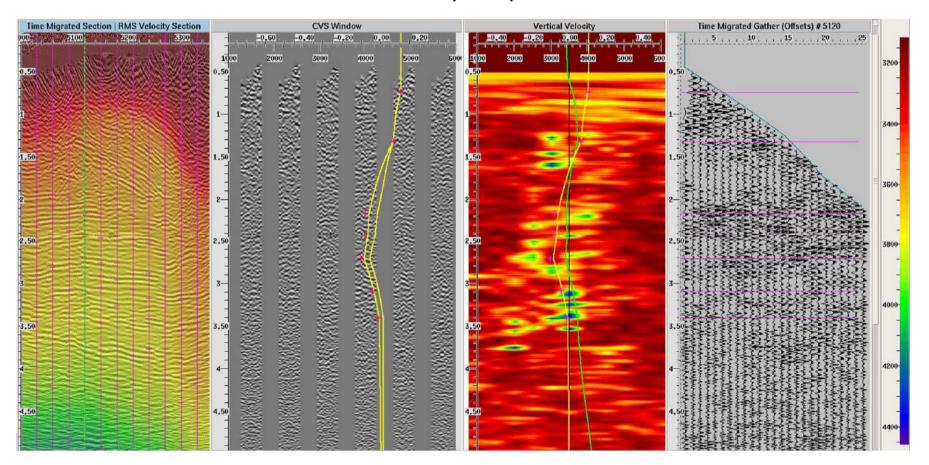
The elevations of receivers and shots to the seismic datum are calculated according to their elevation, using:

- The seismic DATUM is set at 1800 m above sea level The replacement seismic wave velocity is taken at 3400 m/s
- The elevations and the corresponding time corrections in receiver and shot are presented in the graphs of this sheet.



3D cube: Migration pre & post stack

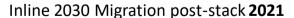
Velocity analysis



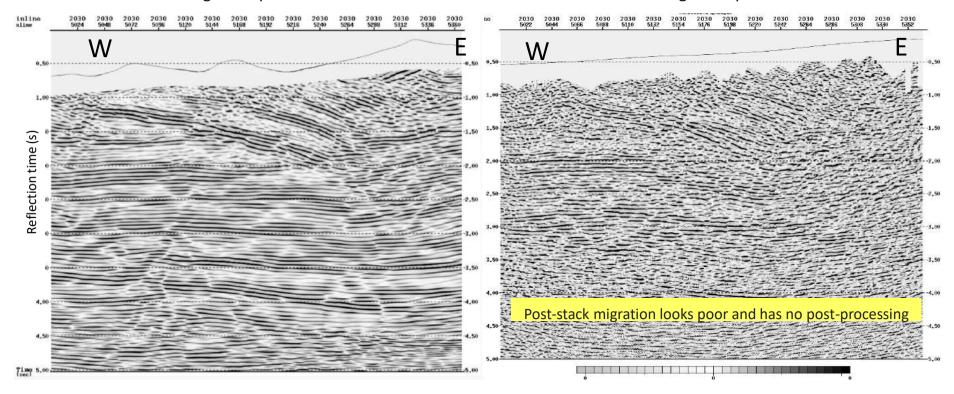
Residual velocity analysis module for Geodepth migration (ECHOSParadigm)



Comparison between 2021 & 2014 Reprocessing (Post-stack migrated sections)



Inline 2030 Migration post-stack 2014





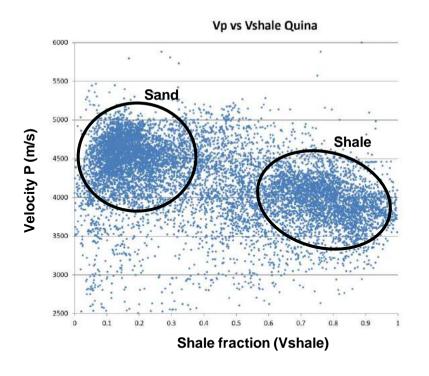
Seismic Inversion Results for Vp, Vs and Density (3D)

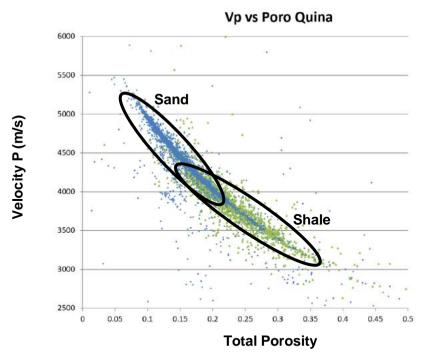
S-Wave velocity (Vs) P-Wave velocity (Vp) **Bulk Density**



Lithology & Porosity plots

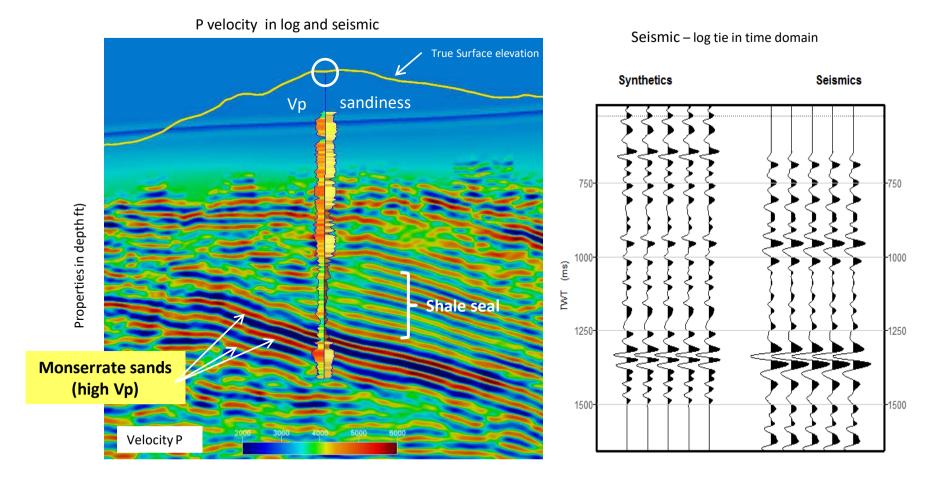
The sands in this area are characterized by a higher seismic velocity than shale, as well as lower porosity, higher acoustic impedance and density than clays. This allows to discriminate sands and clays from the properties estimated with the investment





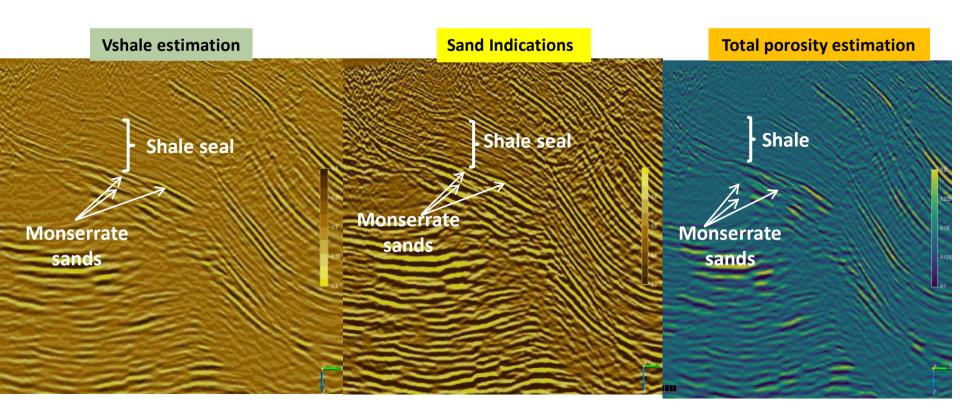


Well Quina (Inline 2067)





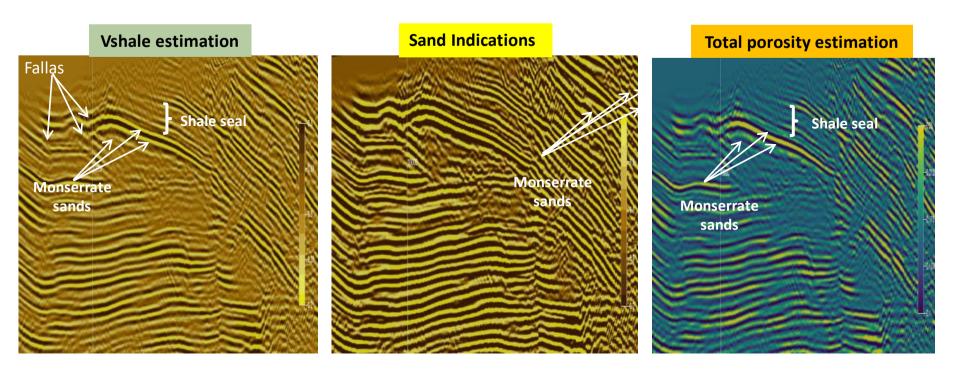
Reservoir Properties Characterization



Hercules Prospect (line 2007-100)



Reservoir Properties Characterization

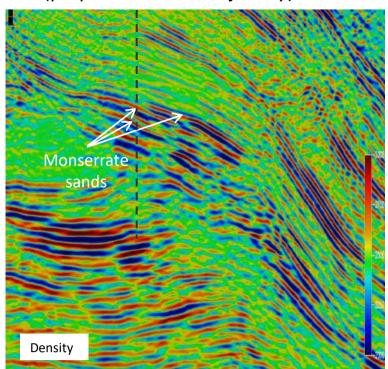


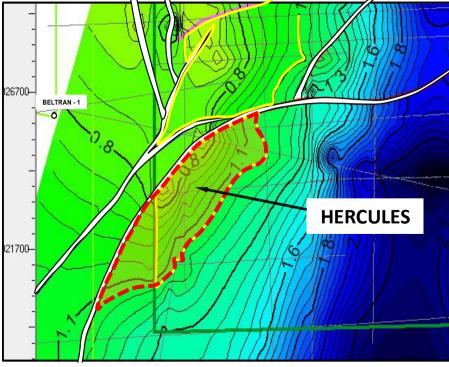
Hércules Norte (line 1979-18)



Hercules Prospect

Hercules-1 (proposed vertical trajectory)





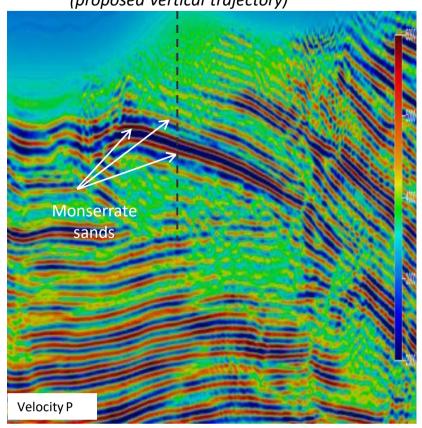
Maximum closure 4586 acres

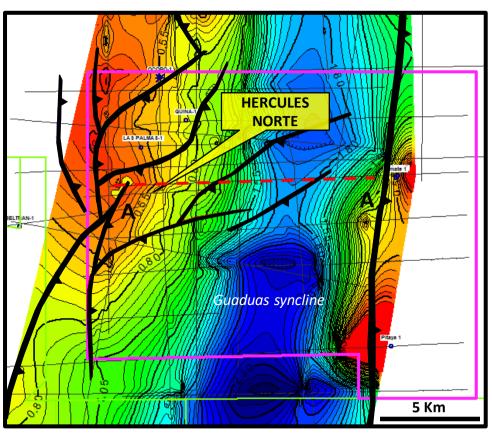


Hercules Norte Prospect

Hercules Norte-1

(proposed vertical trajectory)

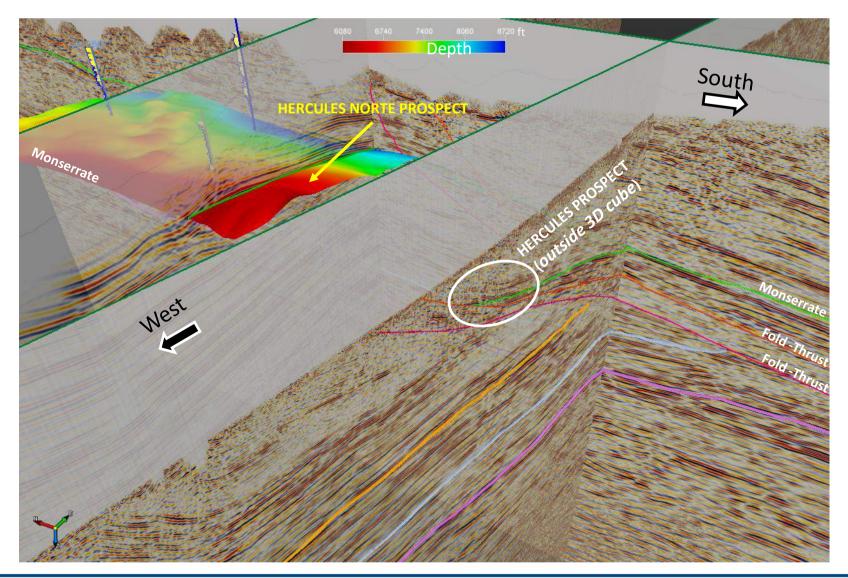




Maximum closure 5200 acres

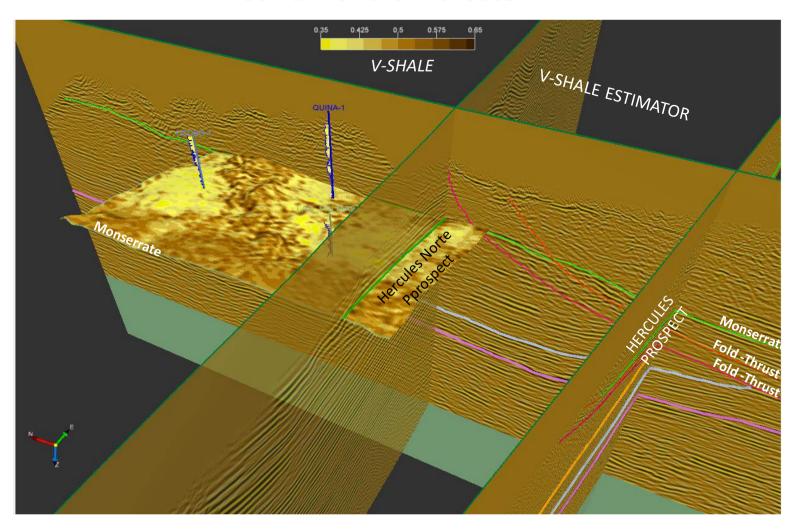


Hercules Norte Prospect / Partial 3D View





Sand – Shale Indicator





Cigarra Sub Thrust @ Monserrate Formation

Cigarra-1

(Vert. Trajectory)

