

Durham RanchSCAN | Niobrara

PROGRAM OVERVIEW

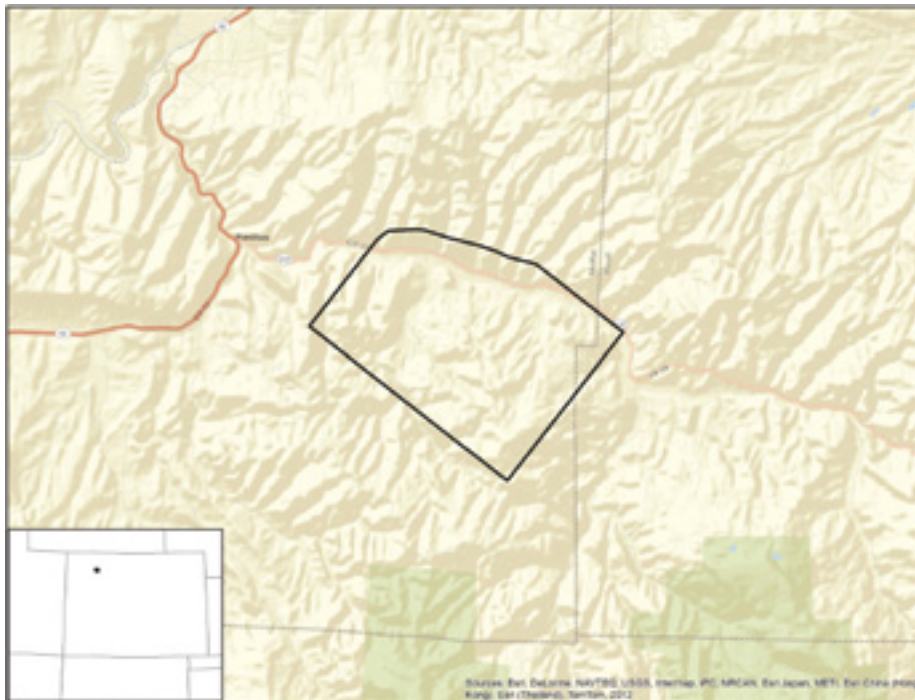
The earliest of ION's 3D ResSCANS™ programs, Durham RanchSCAN, is a multi-client seismic survey in Moffat County, Colorado (near Craig) and comprises approximately 26 square miles. Located on the Southern margin of the Sand Wash Basin, this survey has been designed to provide high-quality structural imaging and rock property prediction over the Waddle Creek oilfield.

PROGRAM OBJECTIVES

- Provide high quality structural imaging for geo-hazard avoidance
- Better characterize rock properties and natural fracture systems
- Establish what seismic attributes impact drilling and completion decisions
- Better understand key geologic drivers, maximize production and minimize development costs



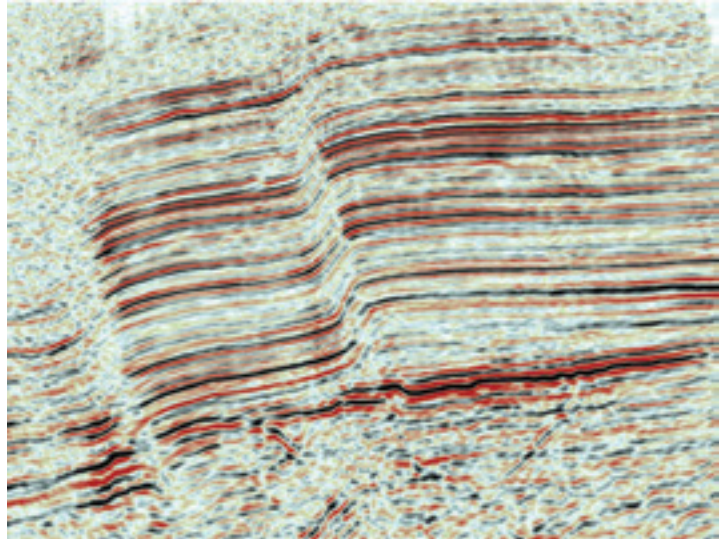
● ION's 3D ResSCANS



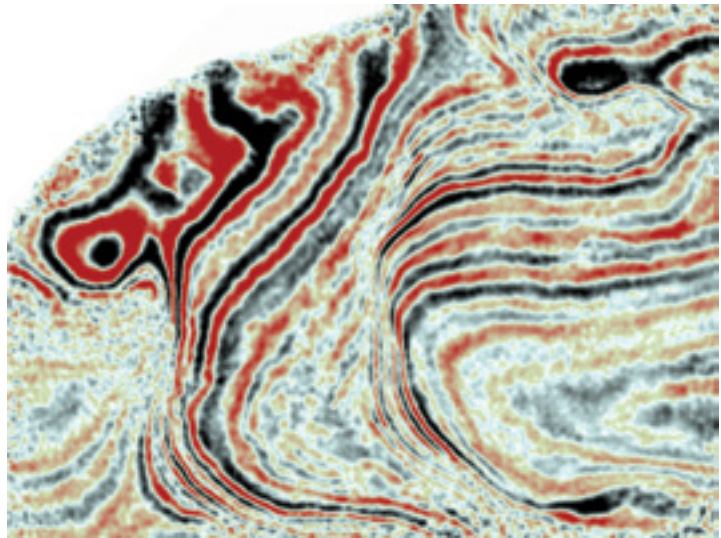
Durham Ranch 3D Survey Map

KEY ACQUISITION PARAMETERS:

- Receiver line interval: 495 ft.
- Receiver group interval: 165 ft.
- Shot line interval: 495 ft.
- Shot point interval: 165 ft.
- Bin size: 82.5 x 82.5 ft.
- Nominal fold: ~110



Durham Ranch P- wave data example with anisotropic OVT PSTM.



Durham Ranch time slice example with anisotropic OVT PSTM.

ABOUT ResSCAN™

ResSCAN programs are 3D multicomponent imaging and characterization programs designed to help E&P companies better understand conventional and unconventional reservoirs to maximize production. Unlike traditional P-wave surveys, ION's seismic approach provides enhanced key rock property insights away from the well bore. The workflow integrates upfront geological, petrophysical, and rock physics analysis to establish which seismic attributes best predict key reservoir properties and impact drilling and completions engineering decisions. The enhanced imaging and seismic attribute analyses enable operators to evaluate and address key challenges associated with geohazard identification and avoidance, reservoir characterization, and completions effectiveness.

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