North Dakota Geological Survey
Geologic Investigations No. 171

Reservoirs of the Bakken Petroleum System: A Core-based Perspective

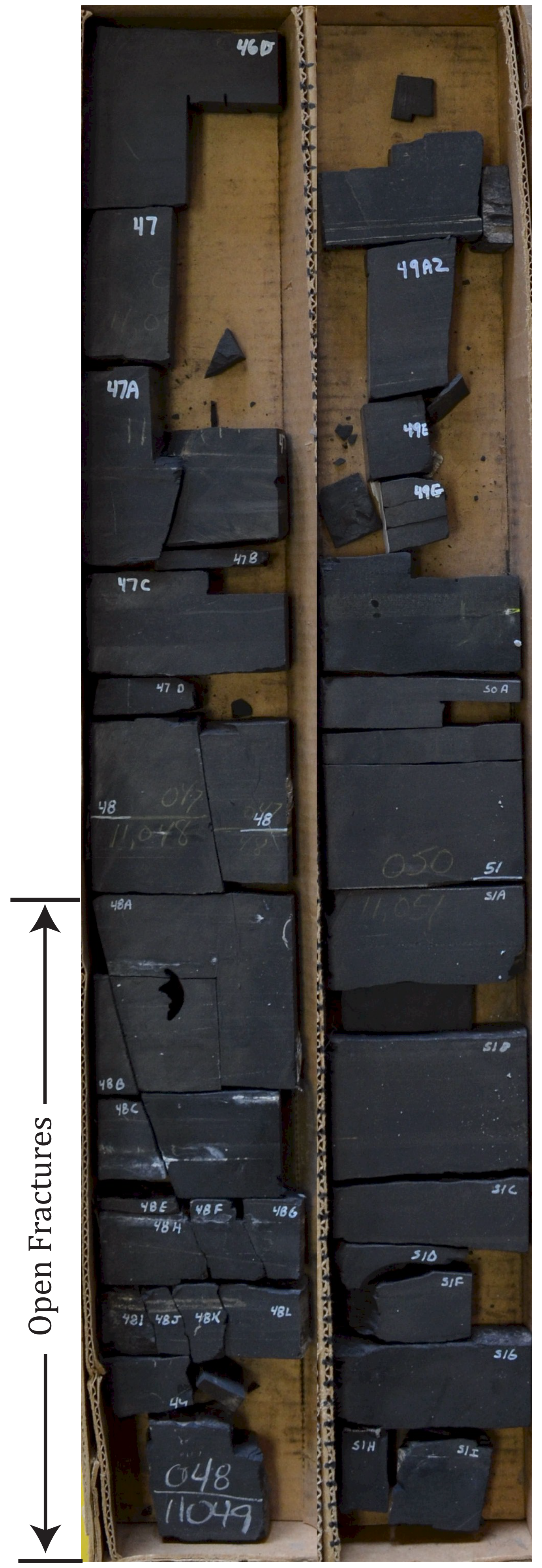
Julie A. LeFever[1], Richard D. LeFever[2], and Stephan H. Nordeng[1]
[1]North Dakota Geological Survey, [2]University of North Dakota

Sheet 3

Edward C. Murphy, State Geologist
Lynn D. Helms, Director Dept. of Mineral Resources
2013

33-007-01185-0000
SWSW Sec. 5, T143N, R99W
Texaco, Inc.
#5-1 Texaco Thompson Unit

11046.5

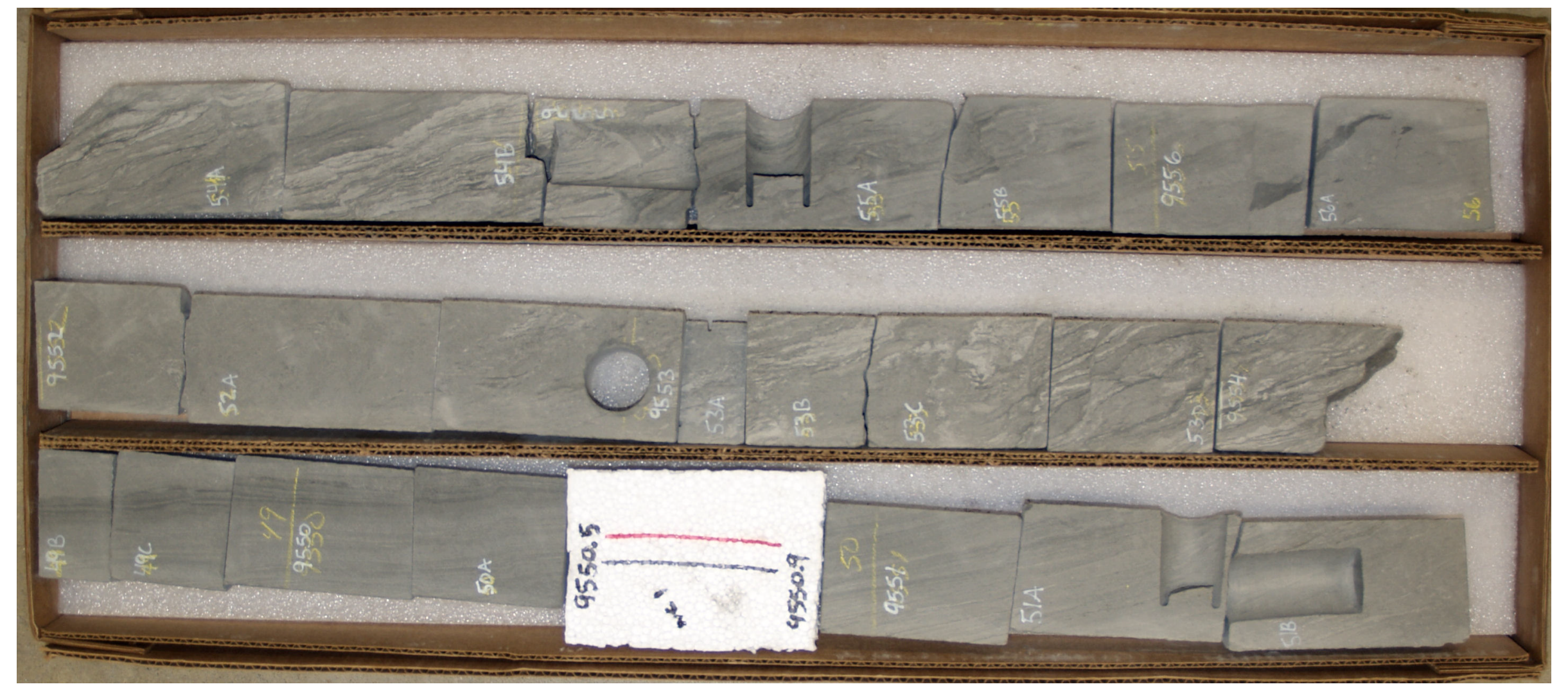

Open Fractures

11052

Upper Member
of the Bakken Formation

33-061-00520-0000
NWNW Sec. 10, T152N, R90W
EOG Resources, Inc.
#1-10H Hoff

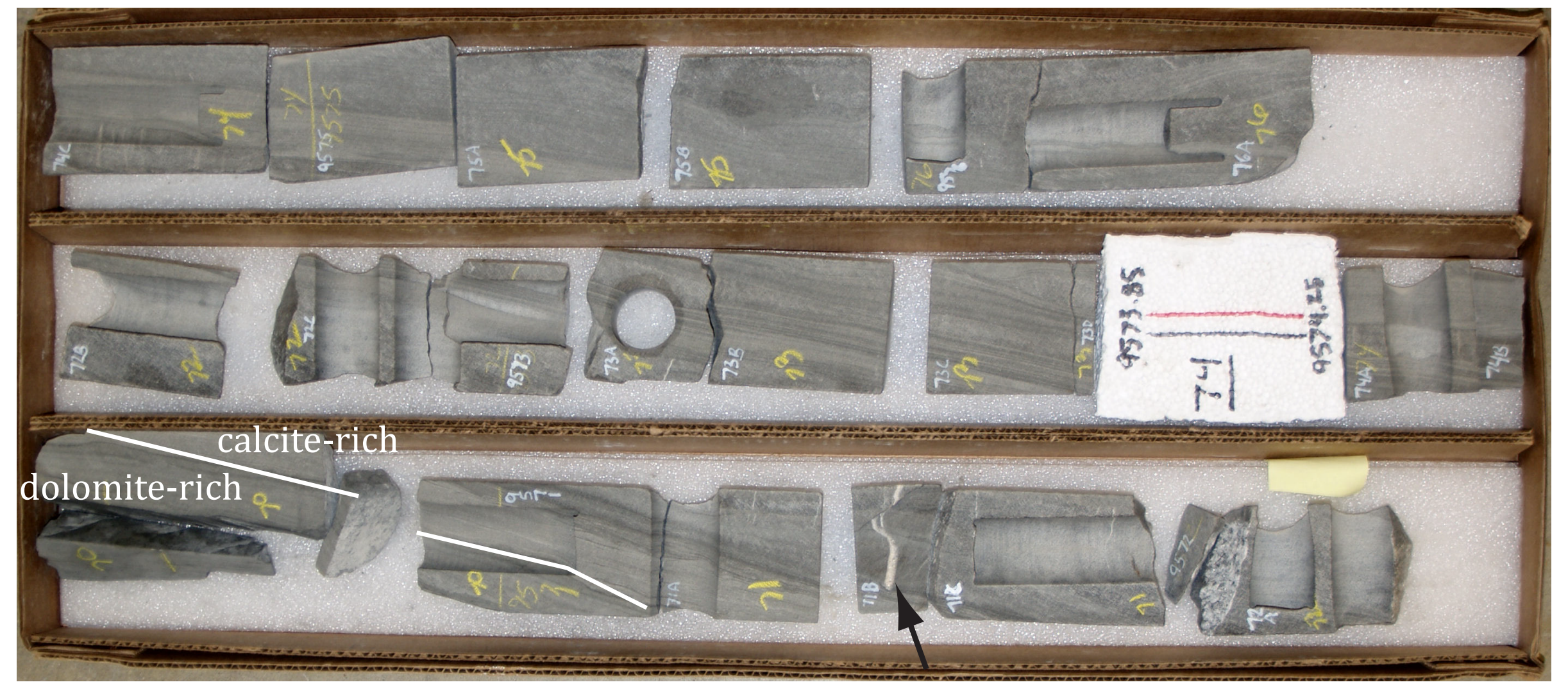
9556



9549.5

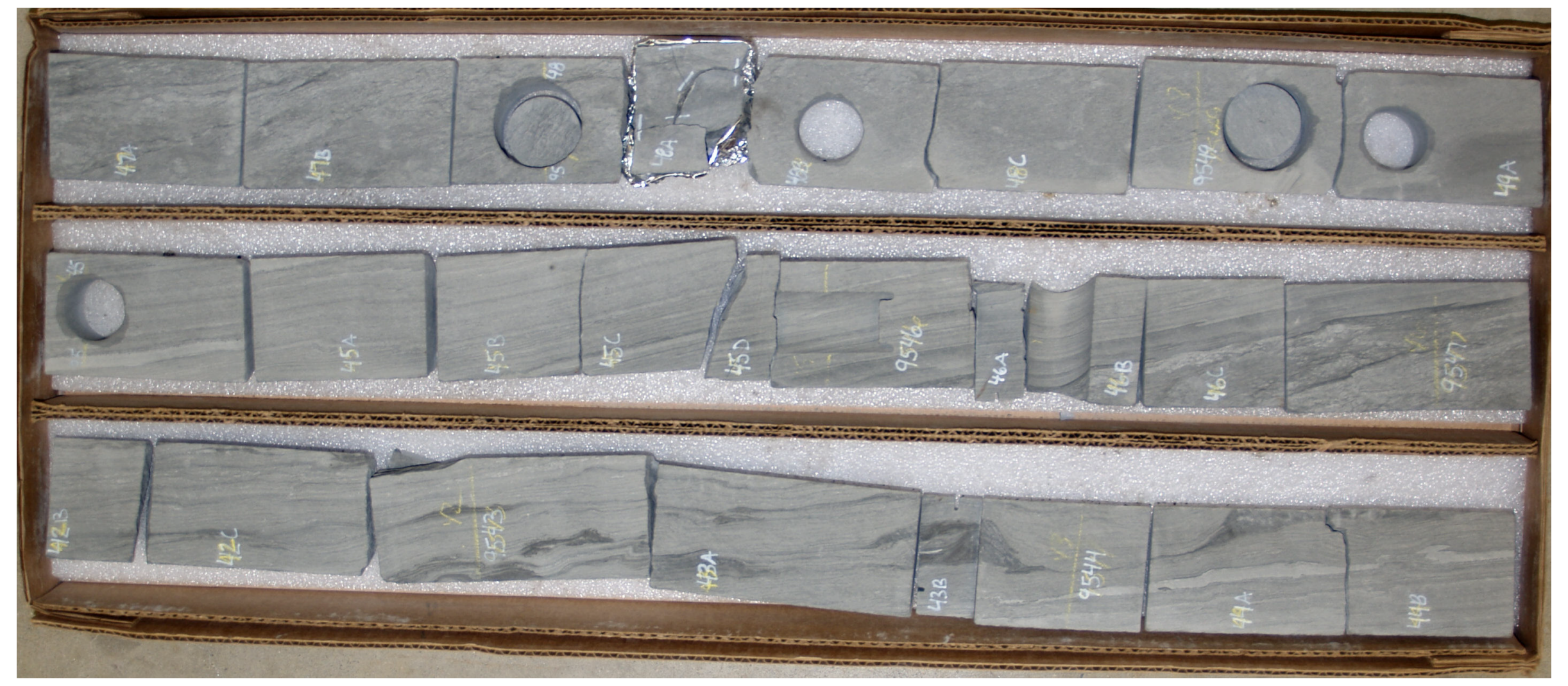
L3 - Calcite-cemented interbedded siltstone and sandstone.
The change from dolomitic sandstone to calcareous sandstone marks the base of the reservoir.

(TVD - 9251.1)
9576


calcite-rich
dolomite-rich
V-shaped Fractures

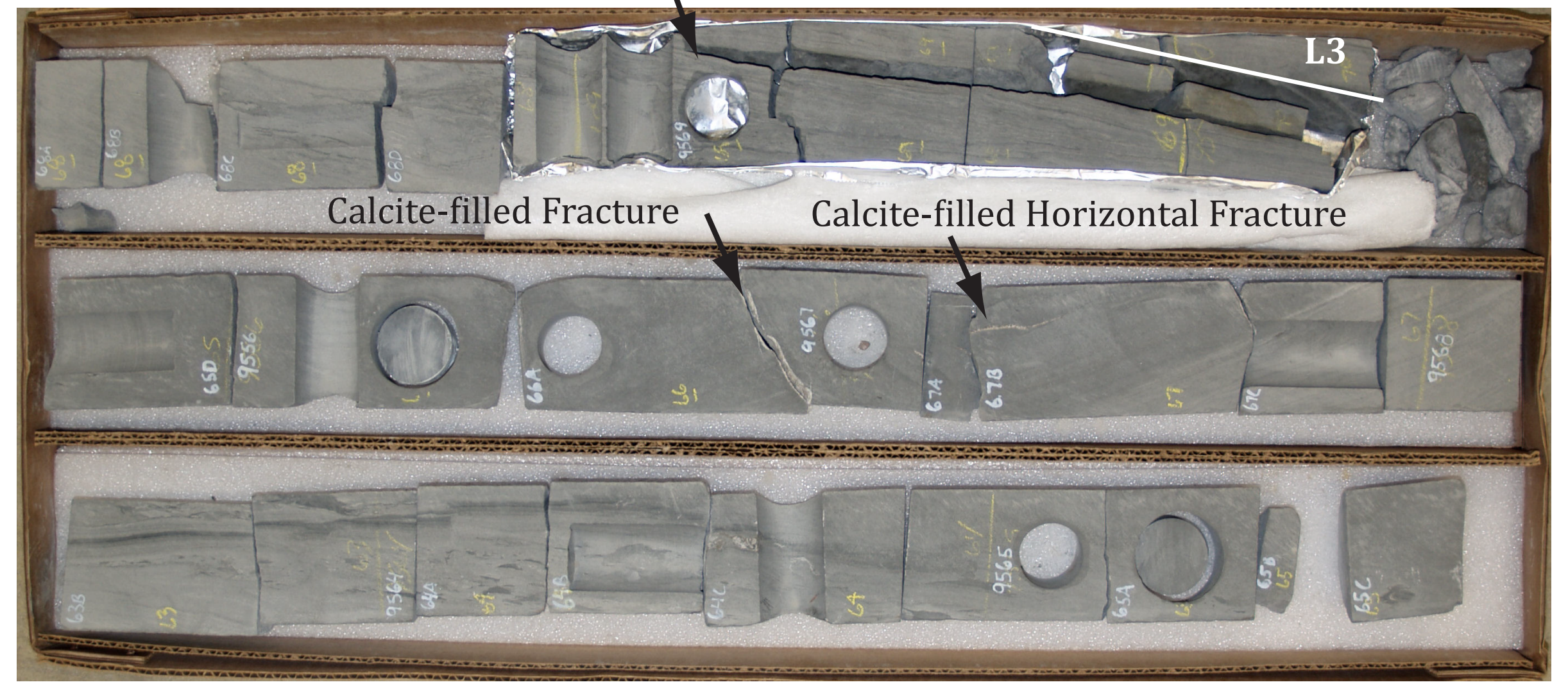
9569

9549.5



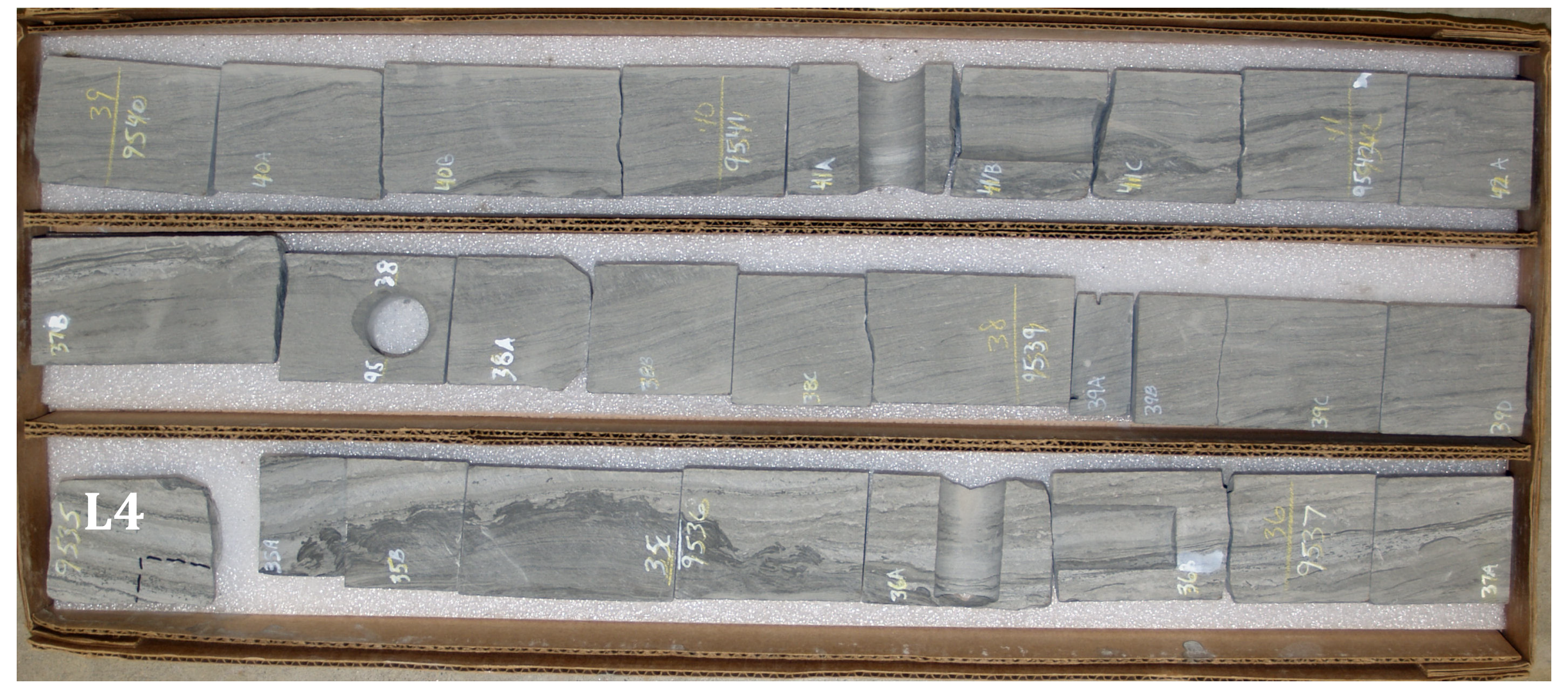
9542.5

9569


Open Fracture
L3
Calcite-filled Fracture
Calcite-filled Horizontal Fracture

9563.5

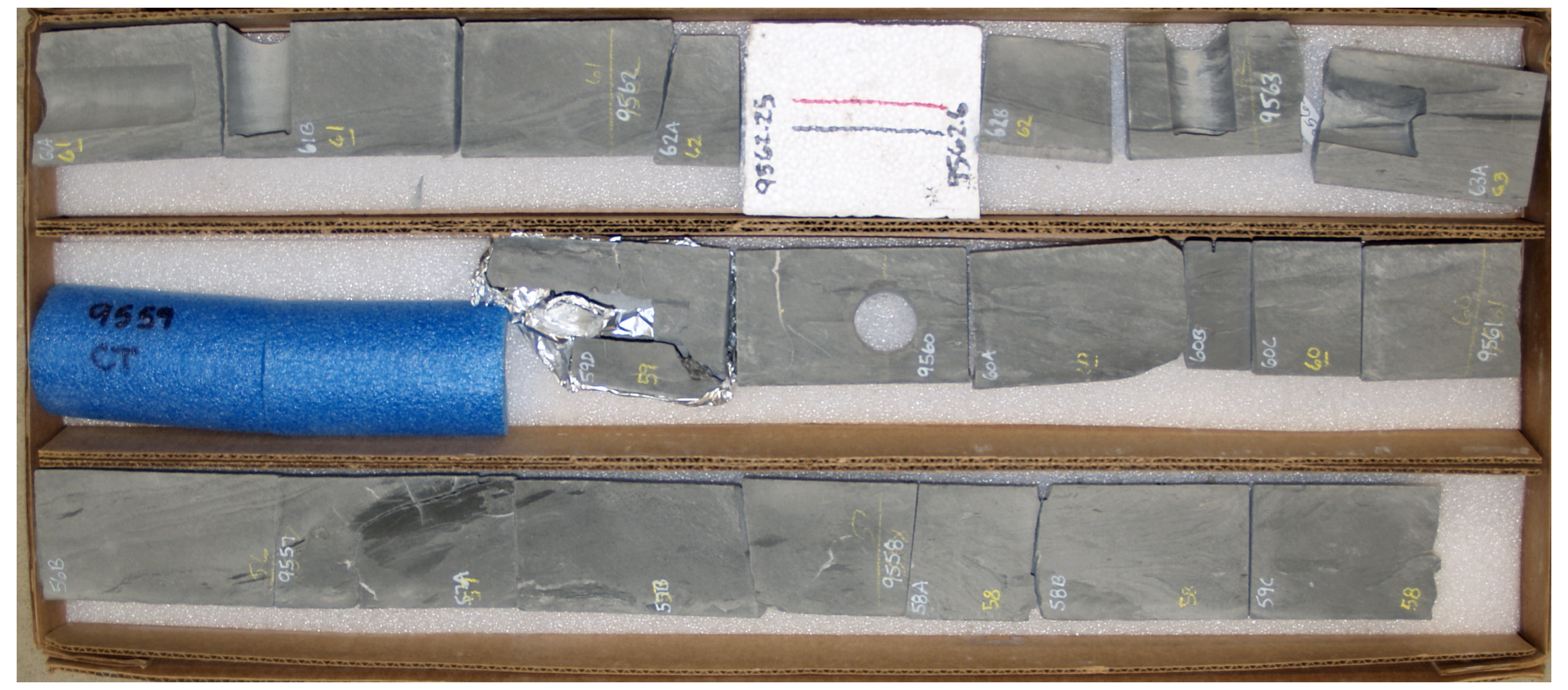
9542.5



9535
(TVD - 9245.3)

Lithofacies 4 - Algal-rich dolomitic siltstone to sandstone.

9563.5

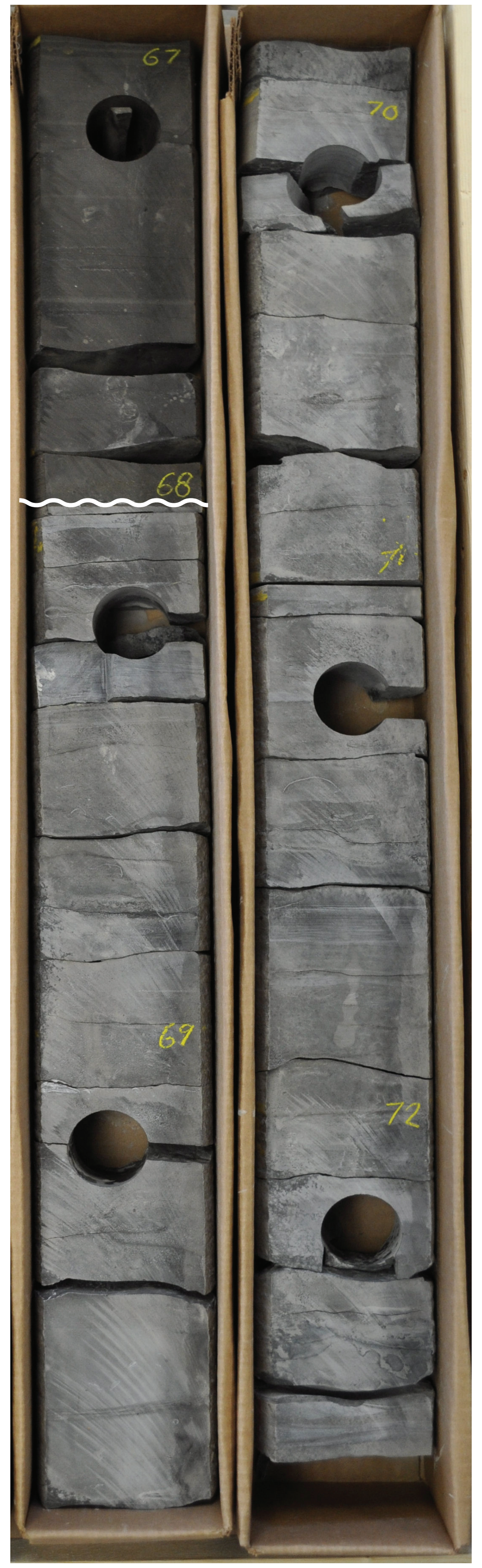


9556

Middle Member (lithofacies 4 - 3) - Core is cut on the build-section (87°-88°).

33-025-00868-0000
SESW Sec. 14, T141N, R96W
Anschutz Exploration Corporation
#24-14H Sadowsky

11047

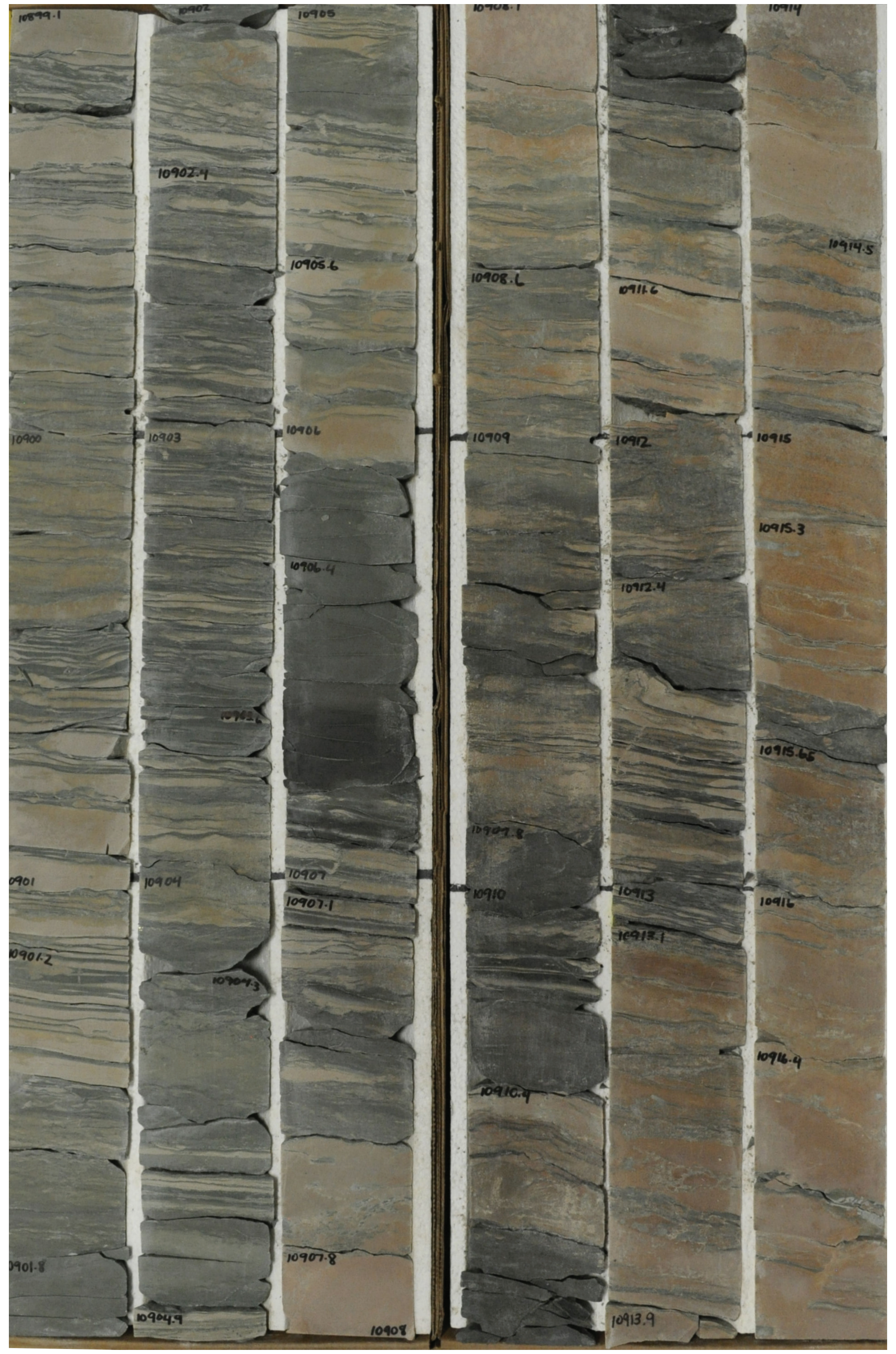


11072.6

Upper and Pronghorn Member
of the Bakken Formation

33-025-01453-0000
NESE Sec. 27, T145N, R95W
Denbury Onshore, LLC.
#43-27WNH Johnson

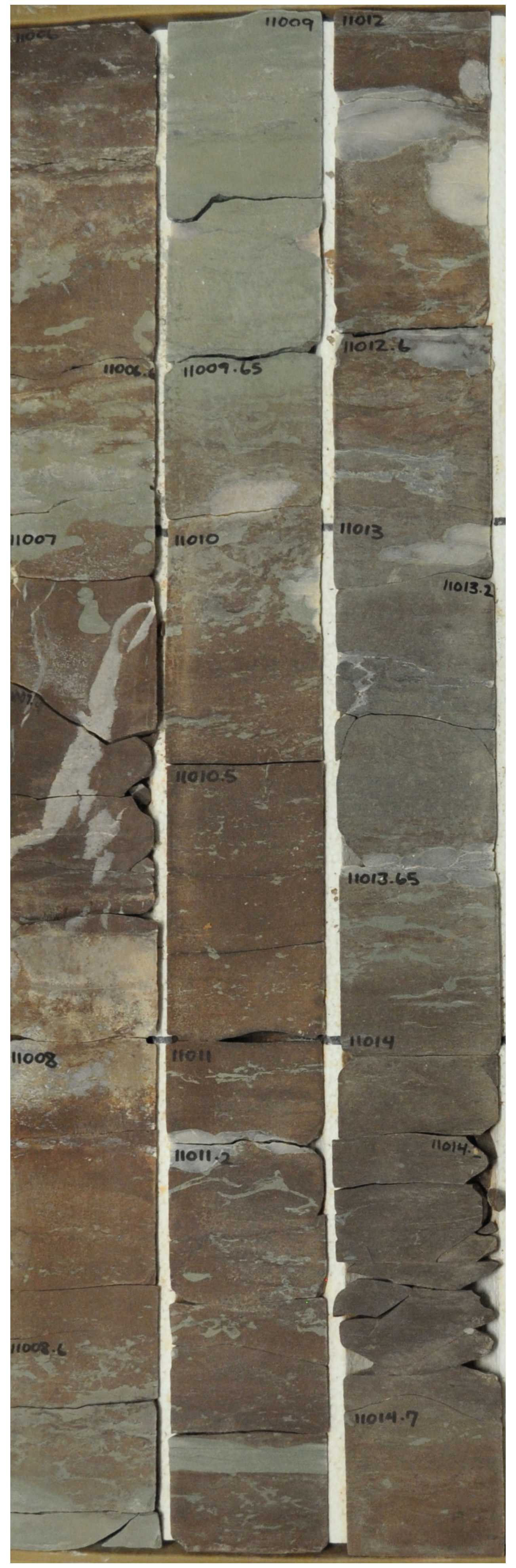
10899.1



10916

Three Forks member 5 ("bench 1")

11006



11015

Three Forks member 2 ("bench 3")