Appendix 1
Synthetic Seismograms for 20 Key Wells

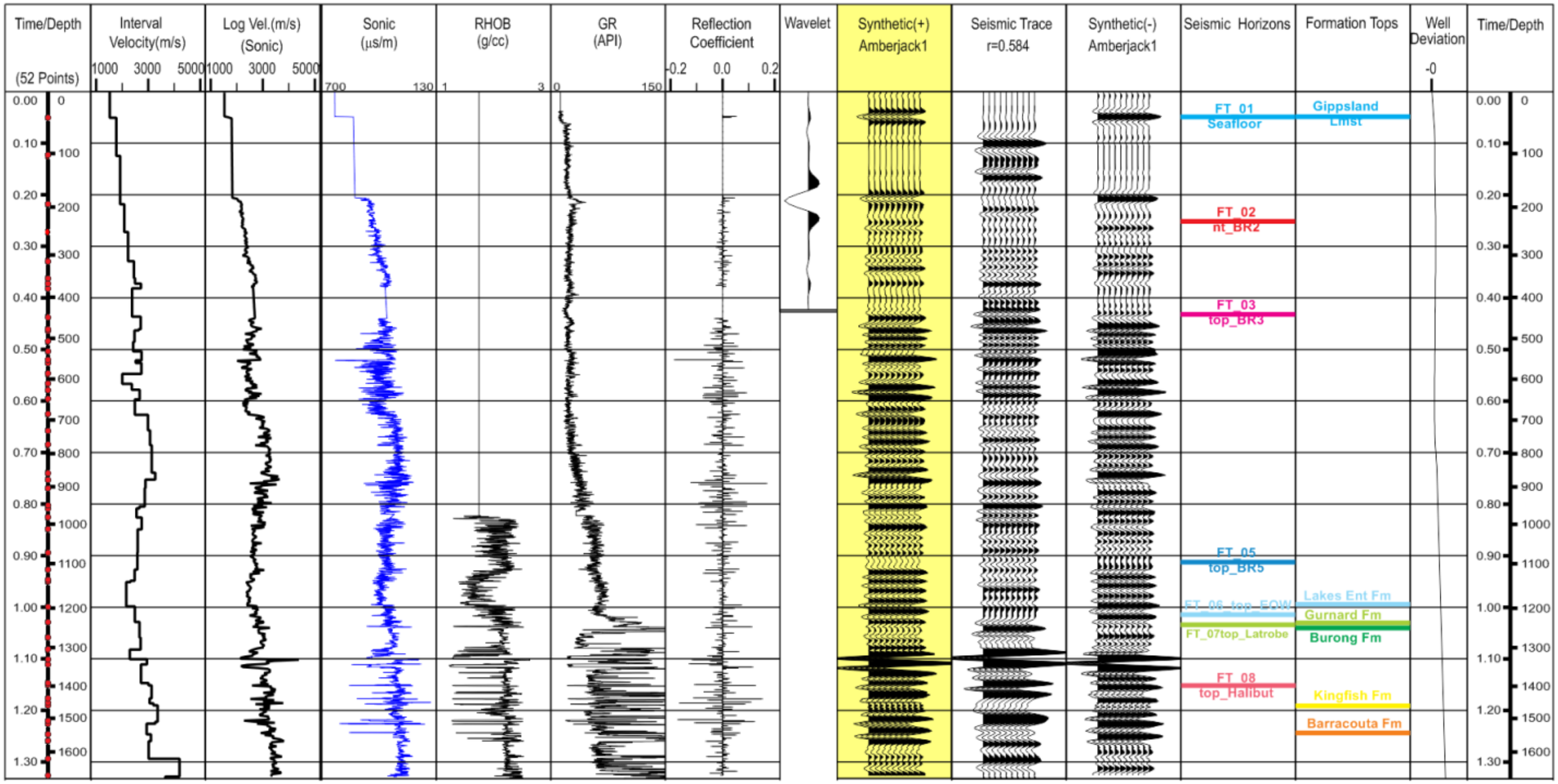


Figure A1.1. Amberjack-1 Synthetic Seismogram

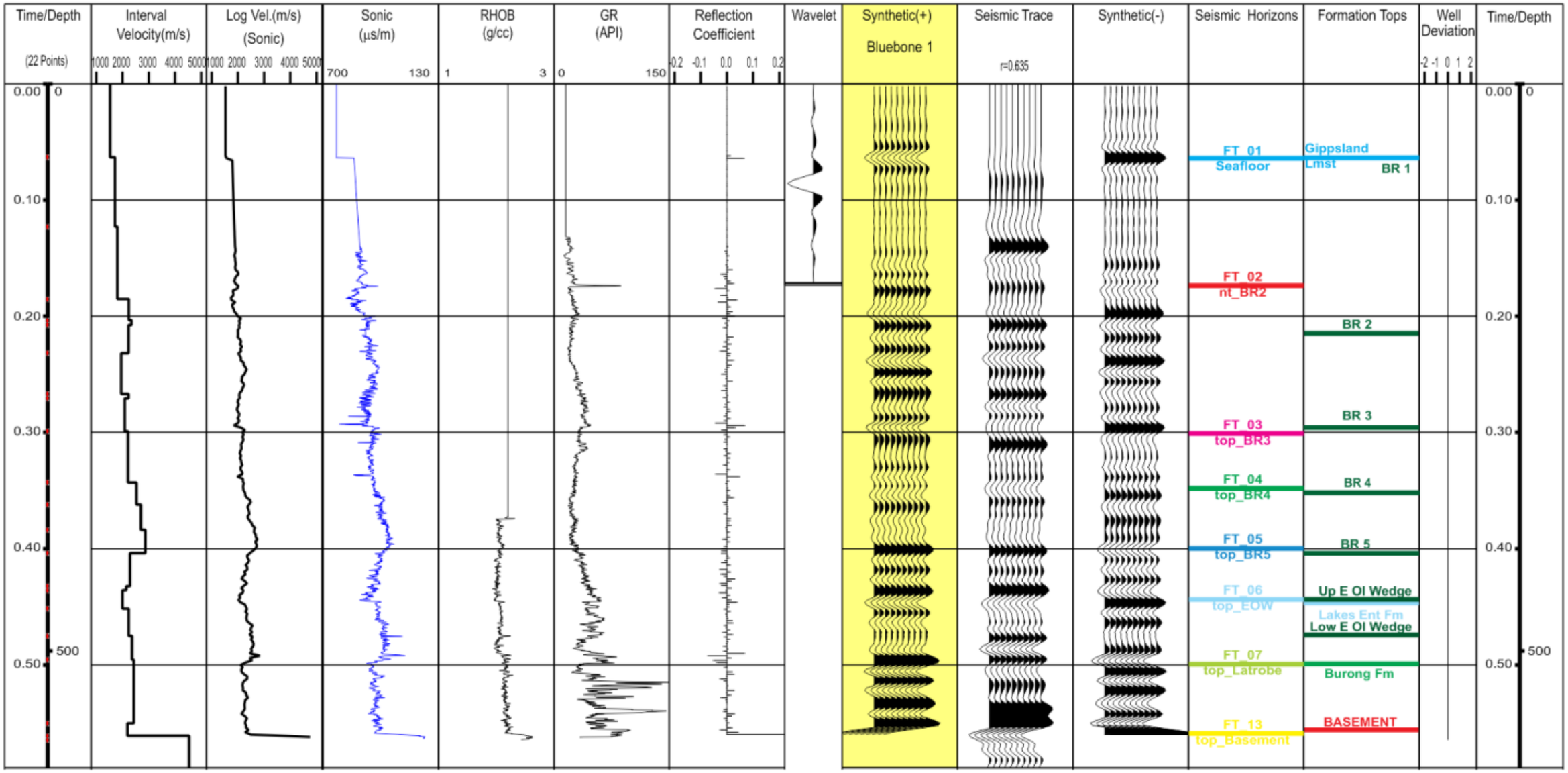


Figure A1.2. Bluebone-1 Synthetic Seismogram

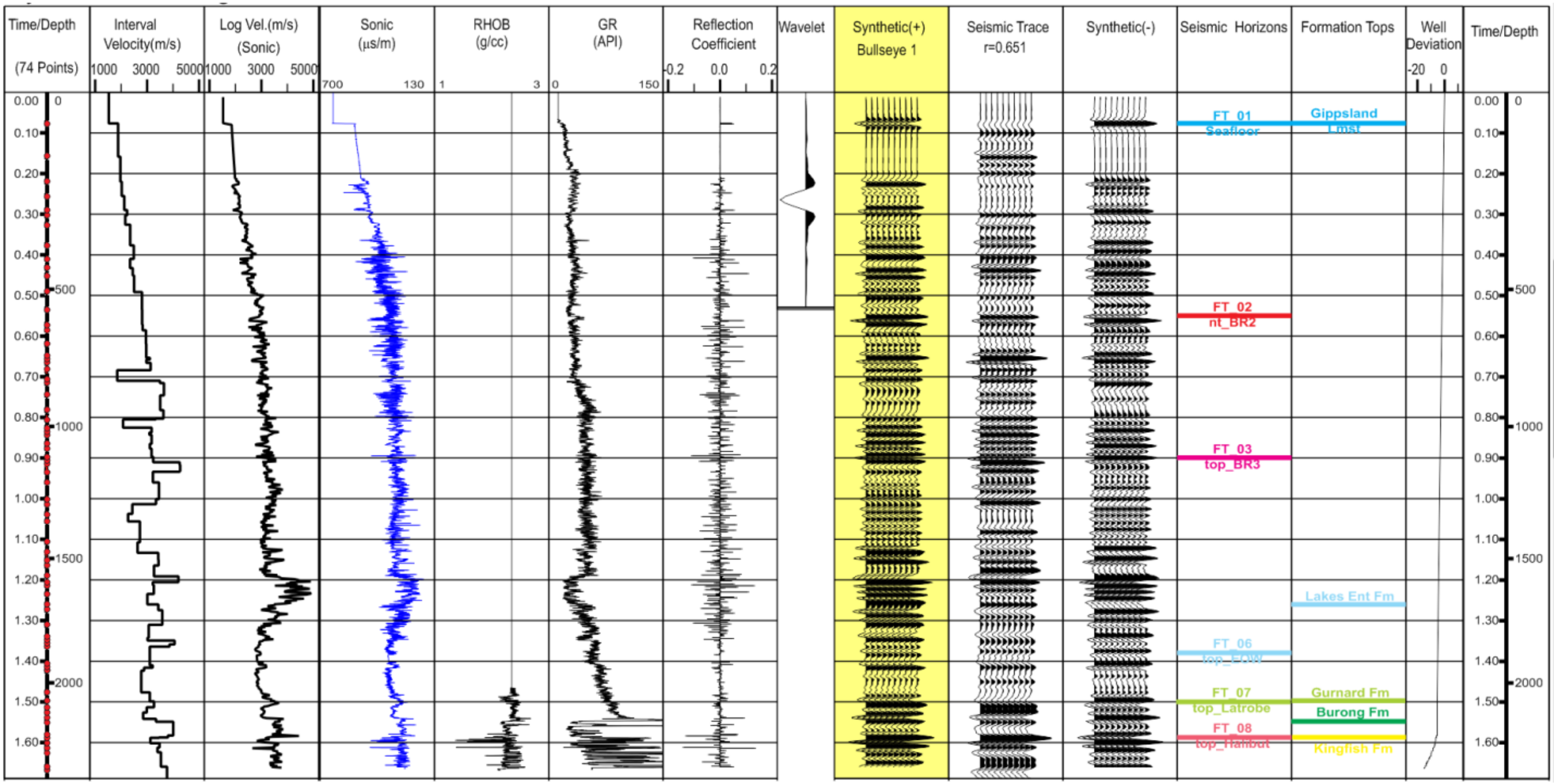


Figure A1.3. Bullseye-1 Synthetic Seismogram

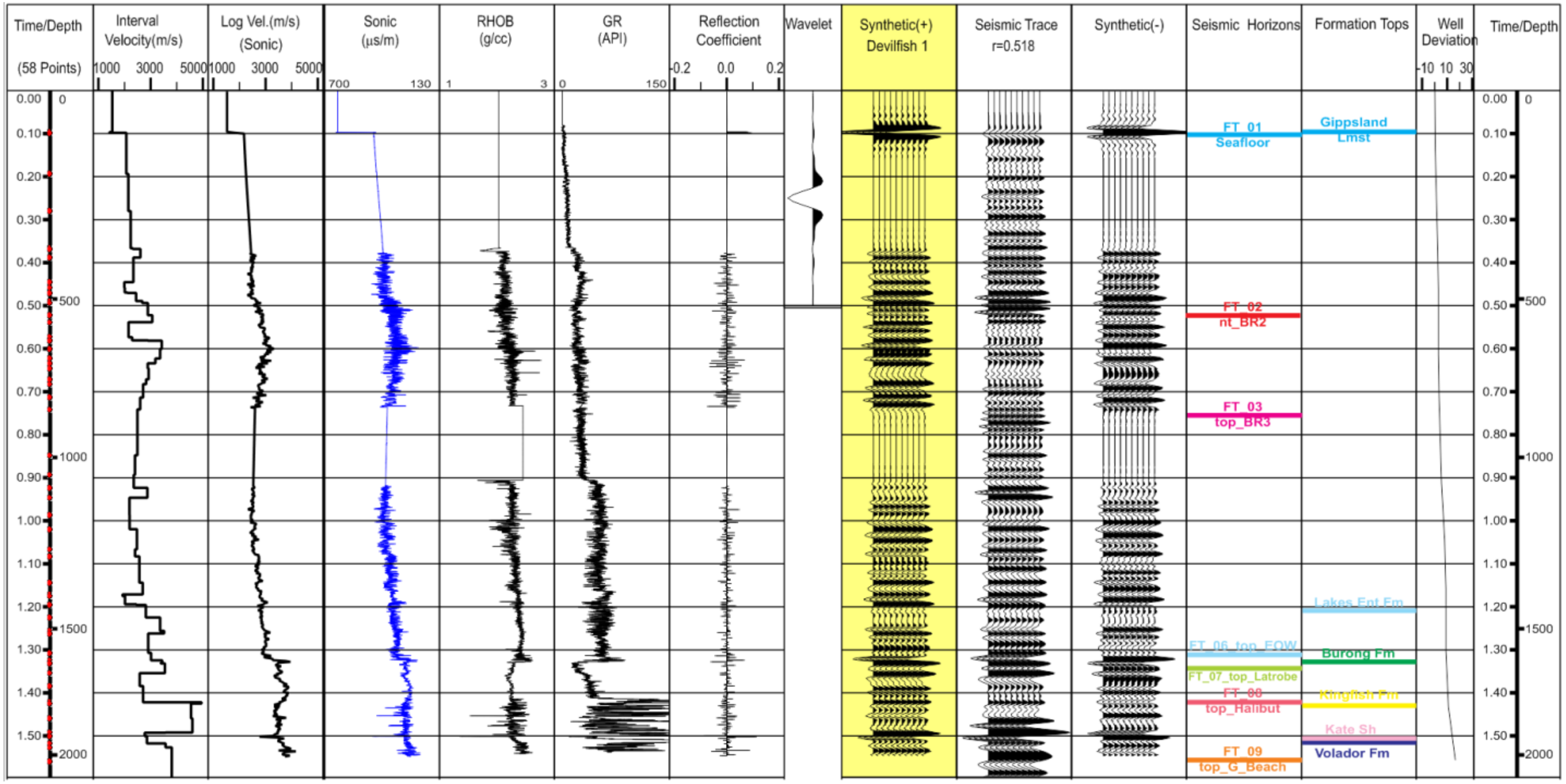


Figure A1.4. Devilfish-1 Synthetic Seismogram

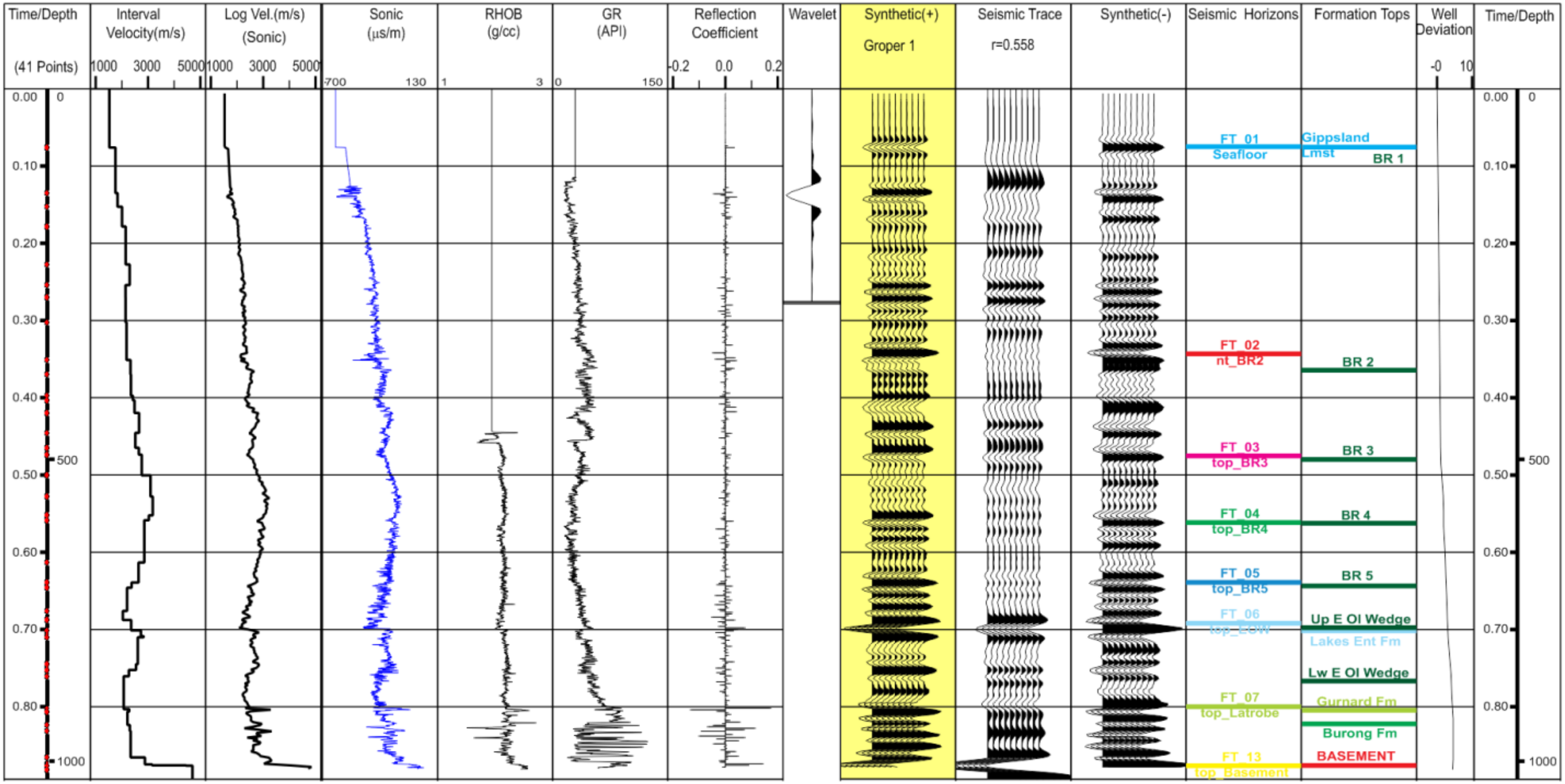


Figure A1.5. Groper-1 Synthetic Seismogram

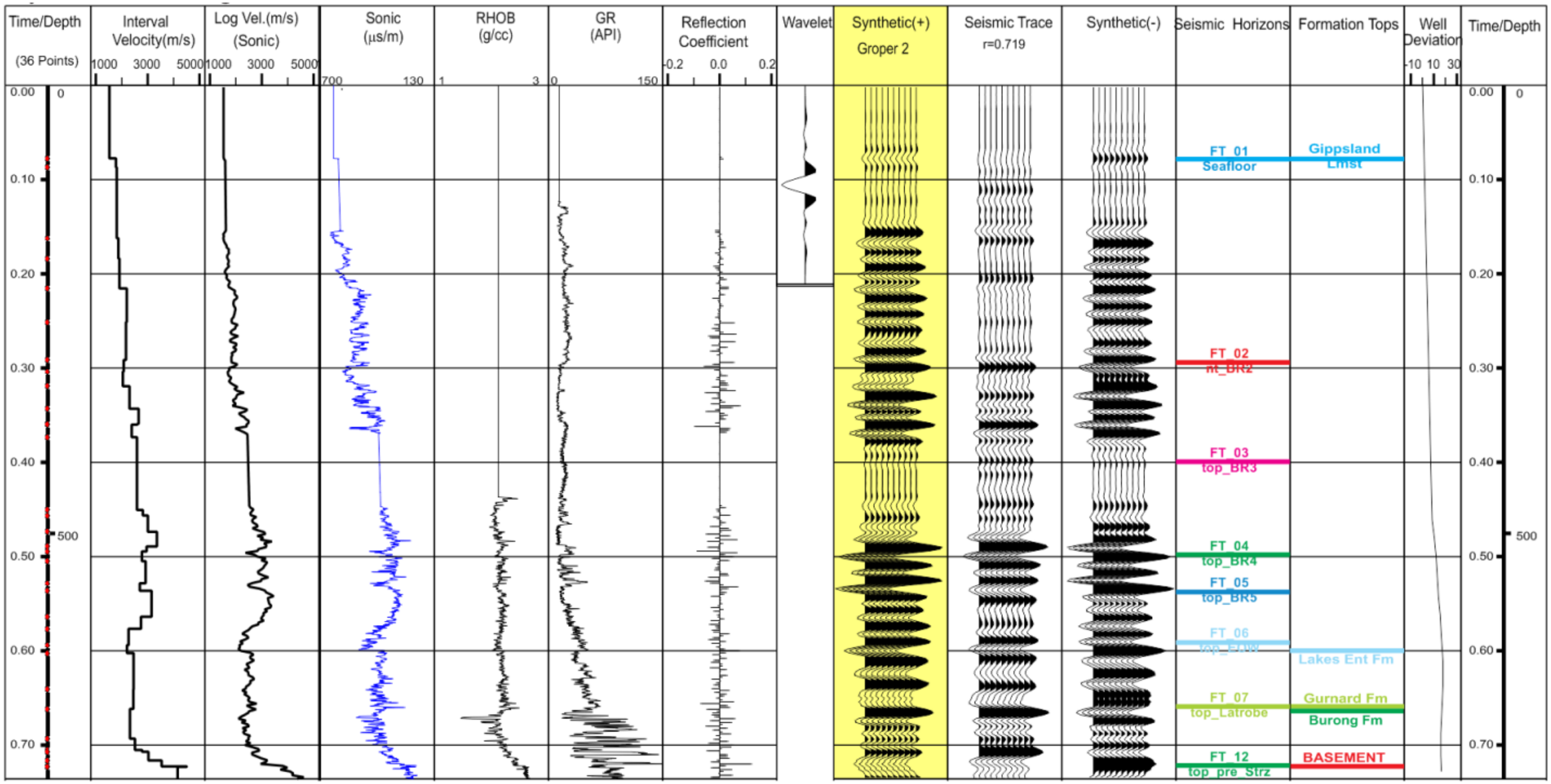


Figure A1.6. Groper-2 Synthetic Seismogram – note that the DPI10 seismic data show the presence of stratigraphy below the TD of this well and it is interpreted that the basement pick is in error

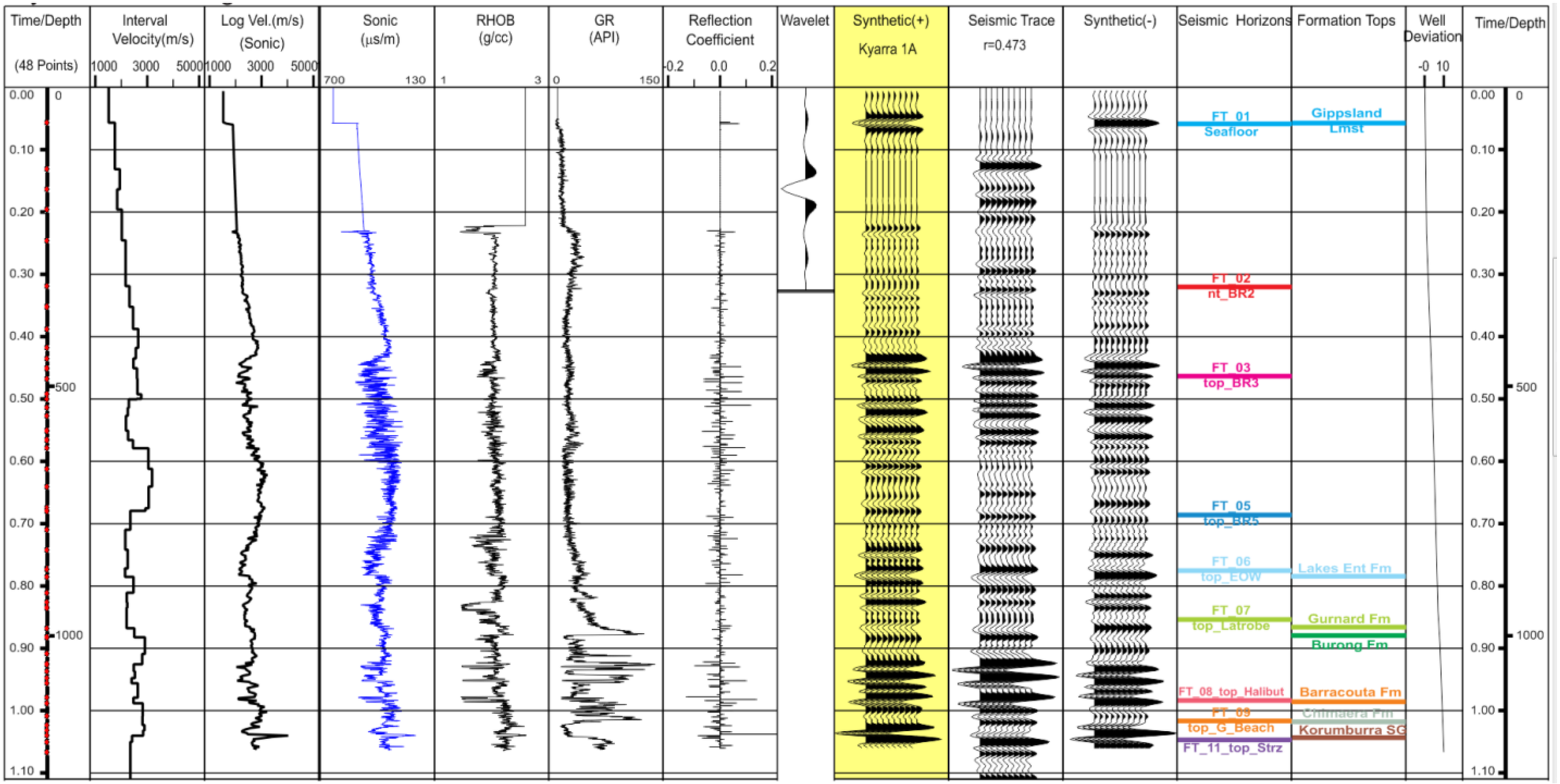


Figure A1.7. Kyarra-1A Synthetic Seismogram

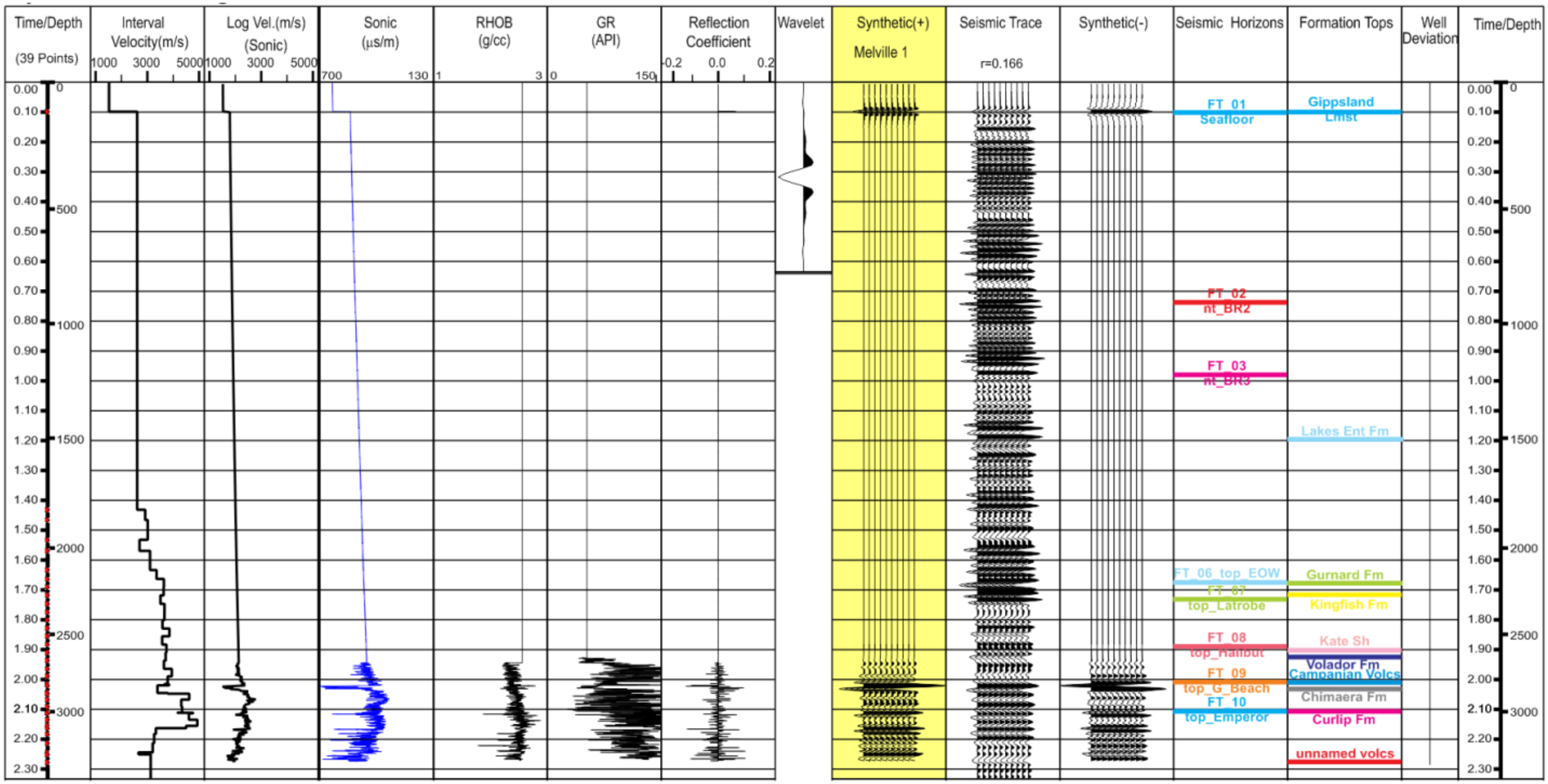


Figure A1.8. Melville-1 Synthetic Seismogram

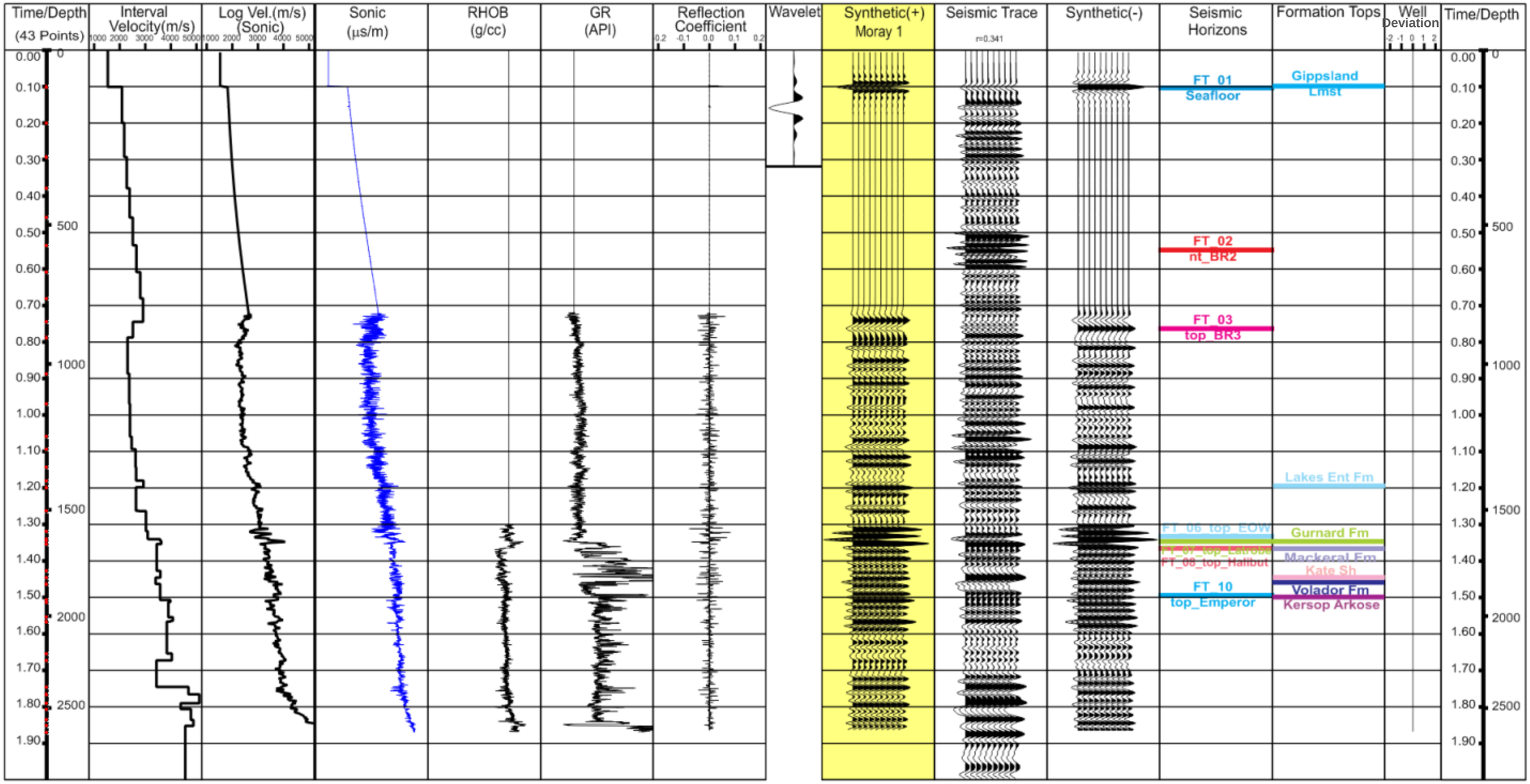


Figure A1.9. Moray-1 Synthetic Seismogram

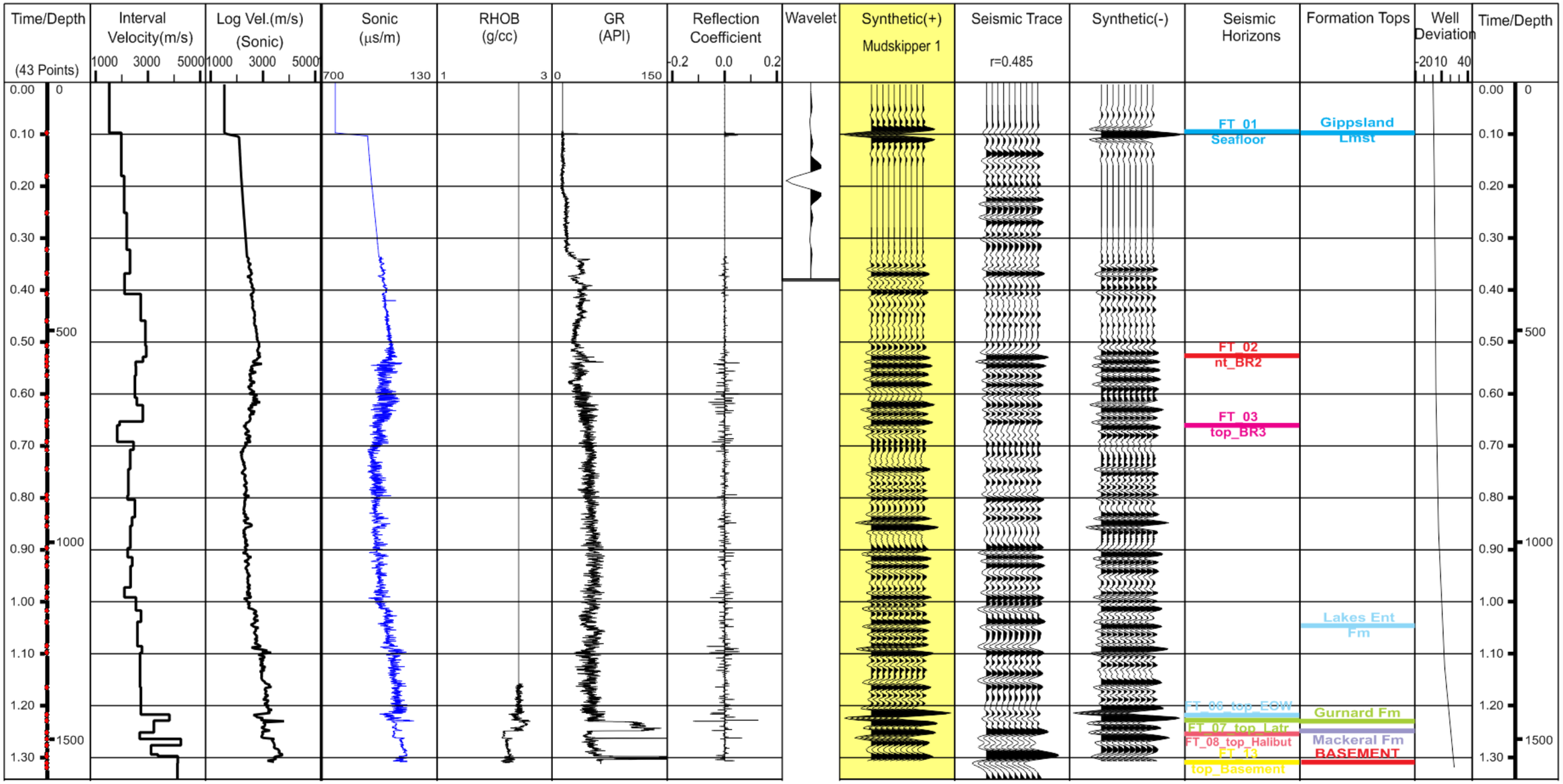


Figure A1.10. Mudskipper-1 Synthetic Seismogram

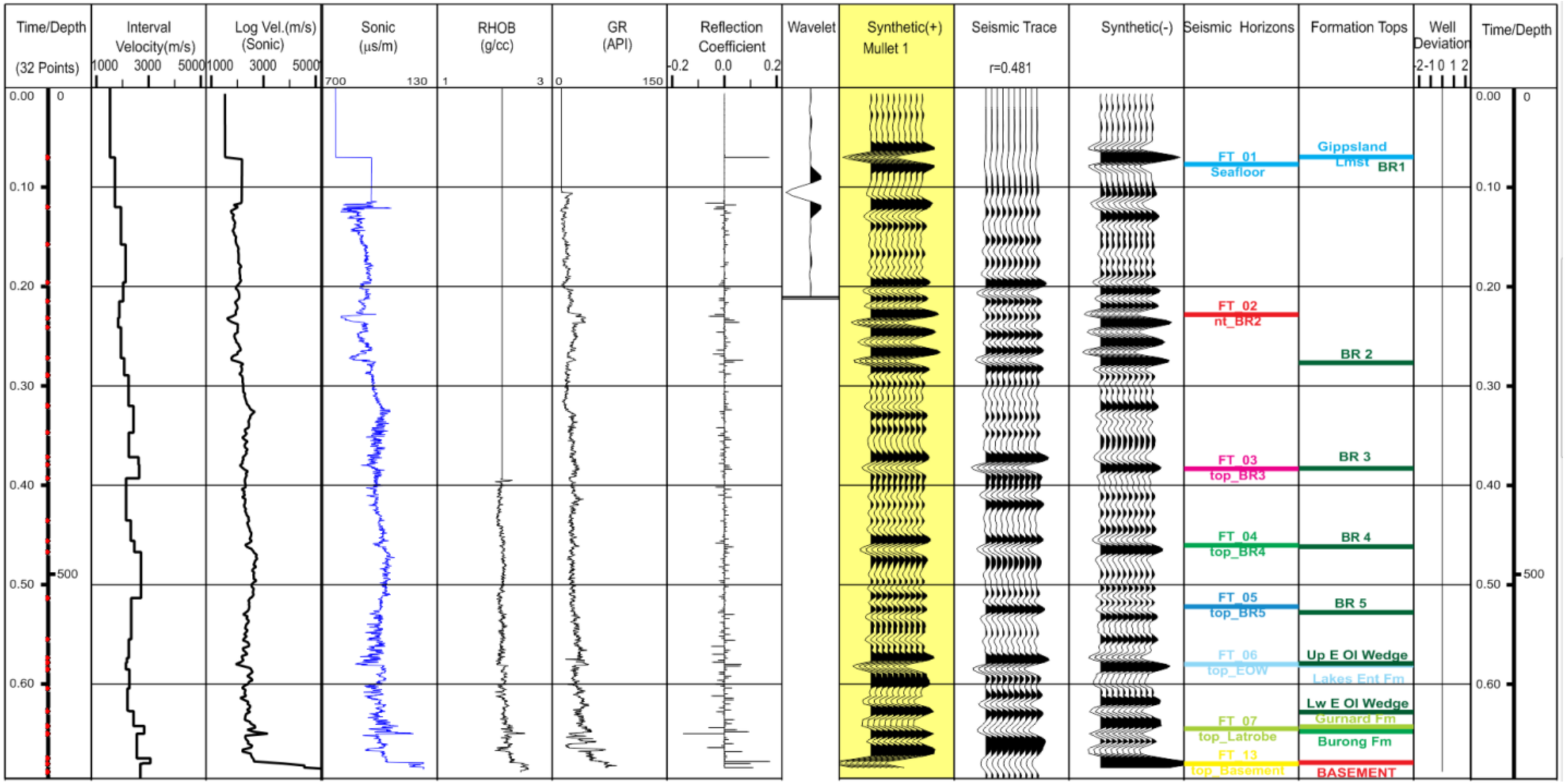


Figure A1.11. Mullet-1 Synthetic Seismogram

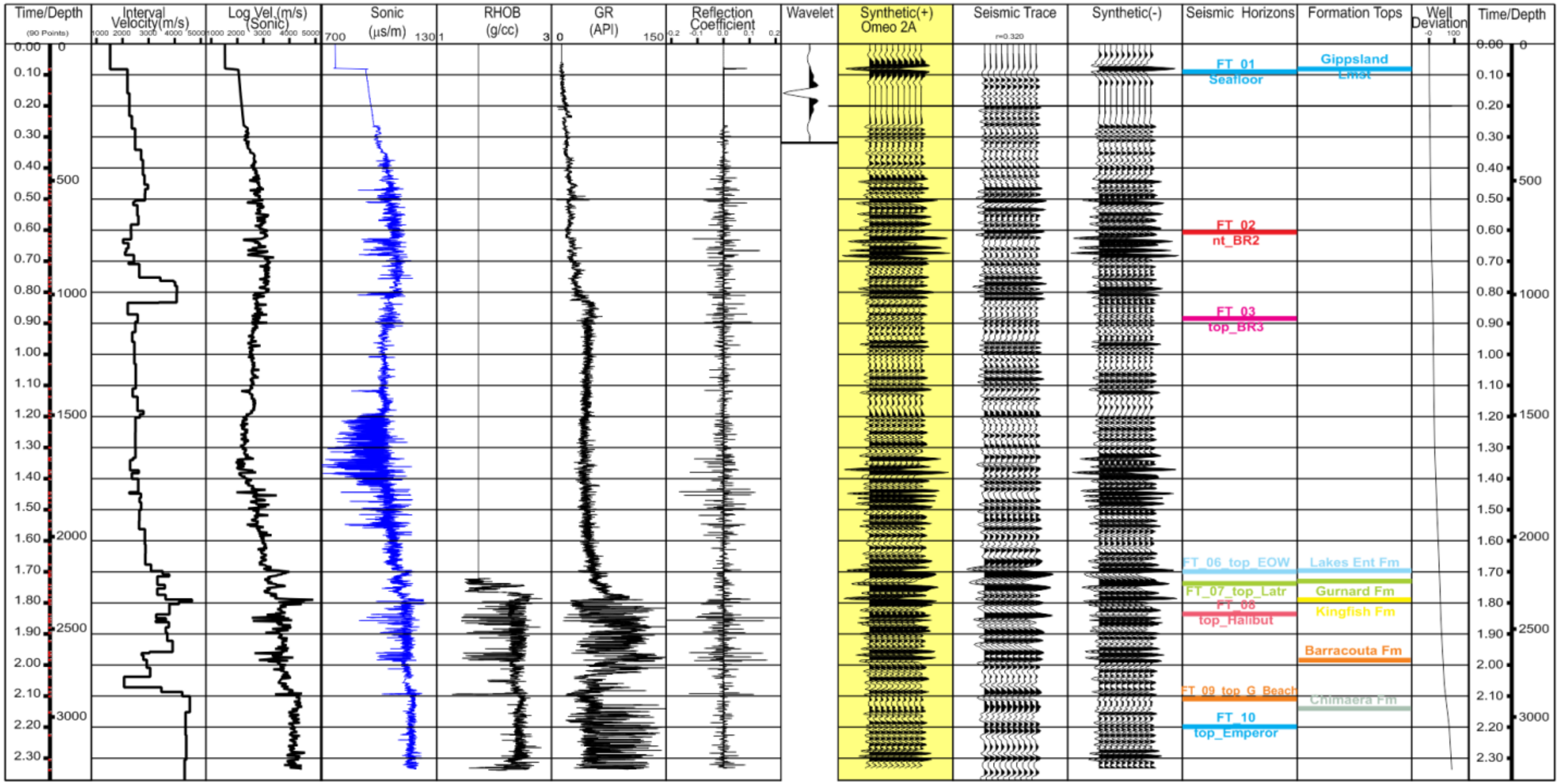


Figure A1.12. Omeo-2A Synthetic Seismogram

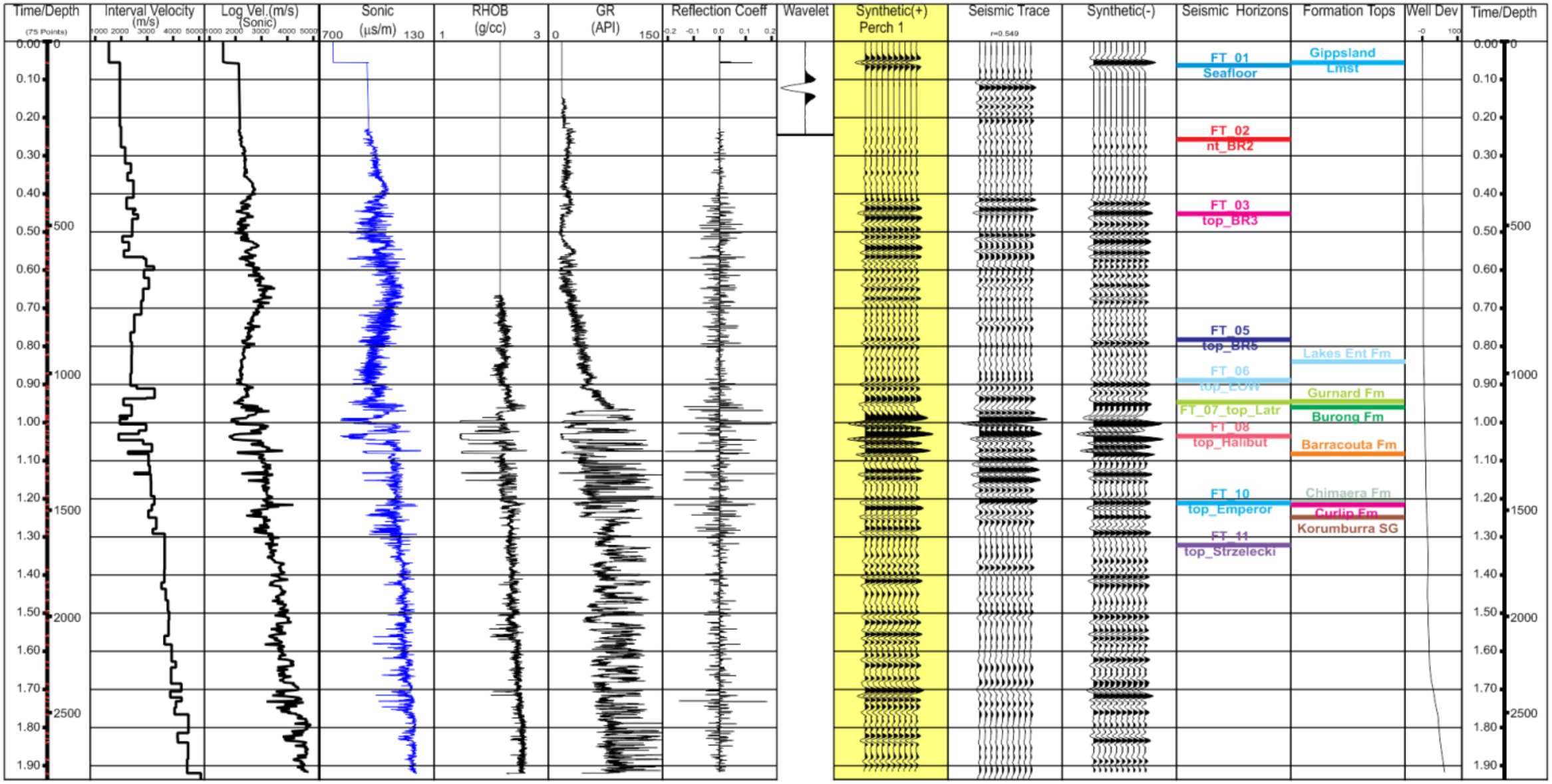


Figure A1.13. Perch-1 Synthetic Seismogram

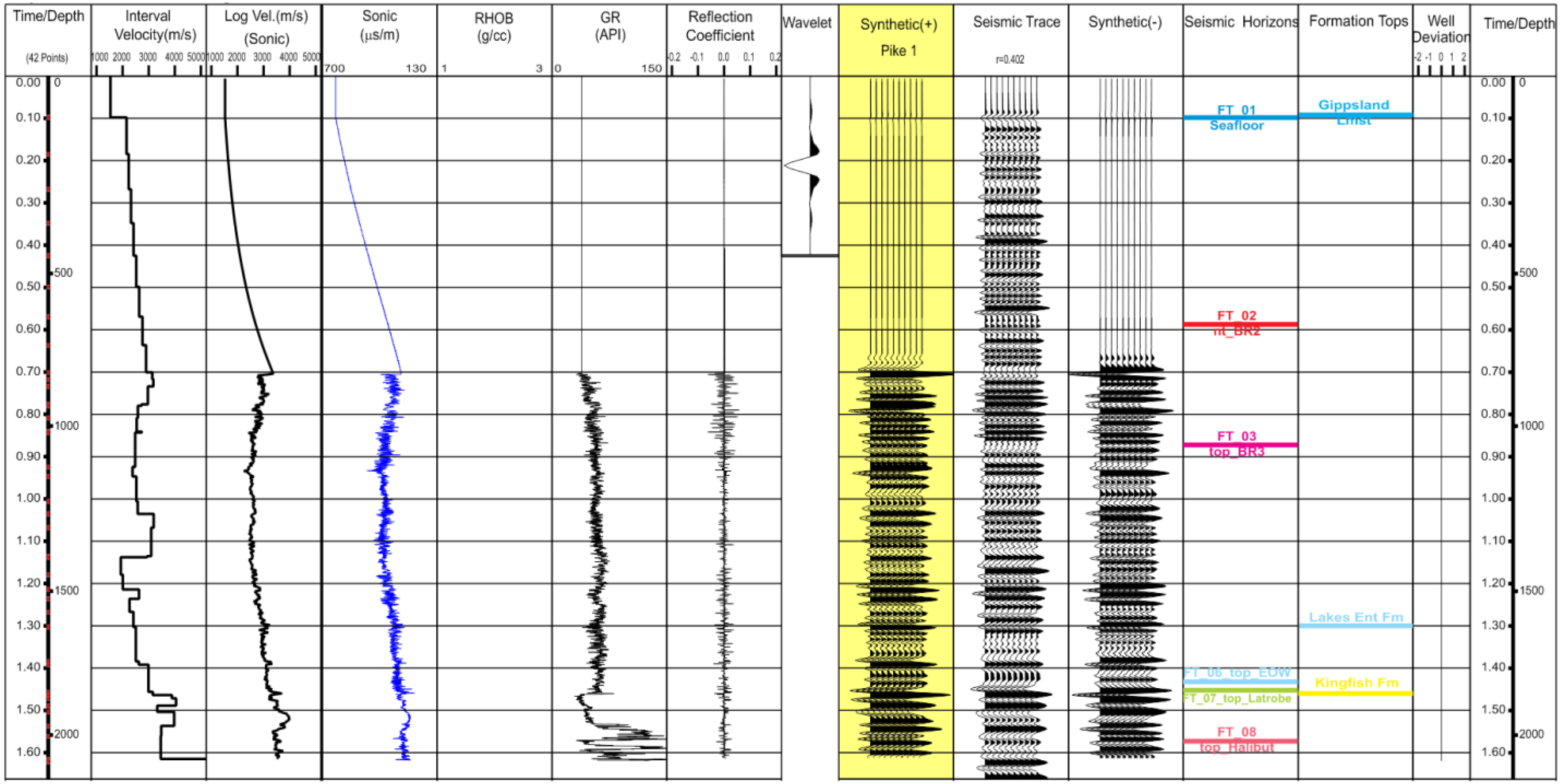


Figure A1.14. Pike-1 Synthetic Seismogram

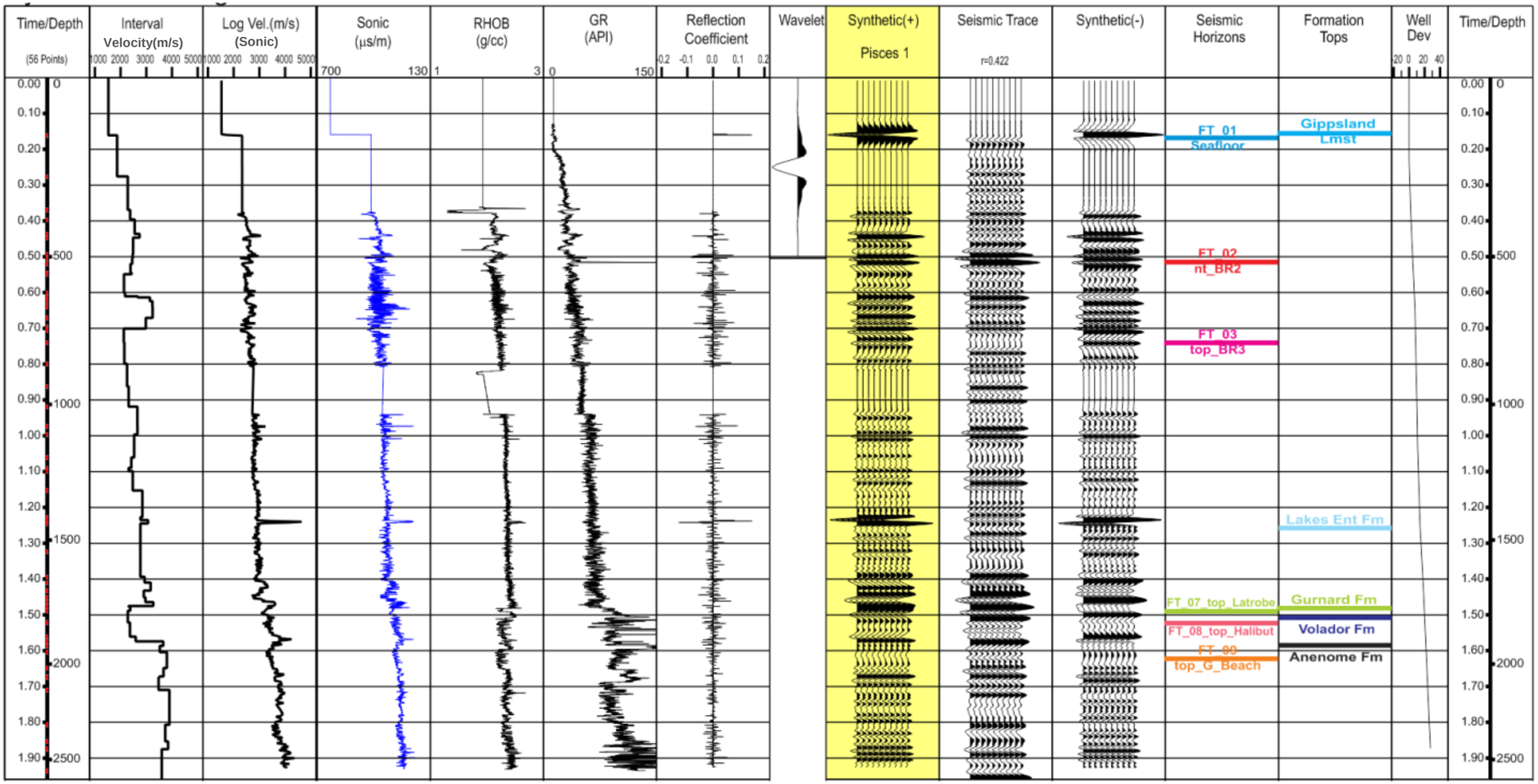


Figure A1.15. Pisces-1 Synthetic Seismogram

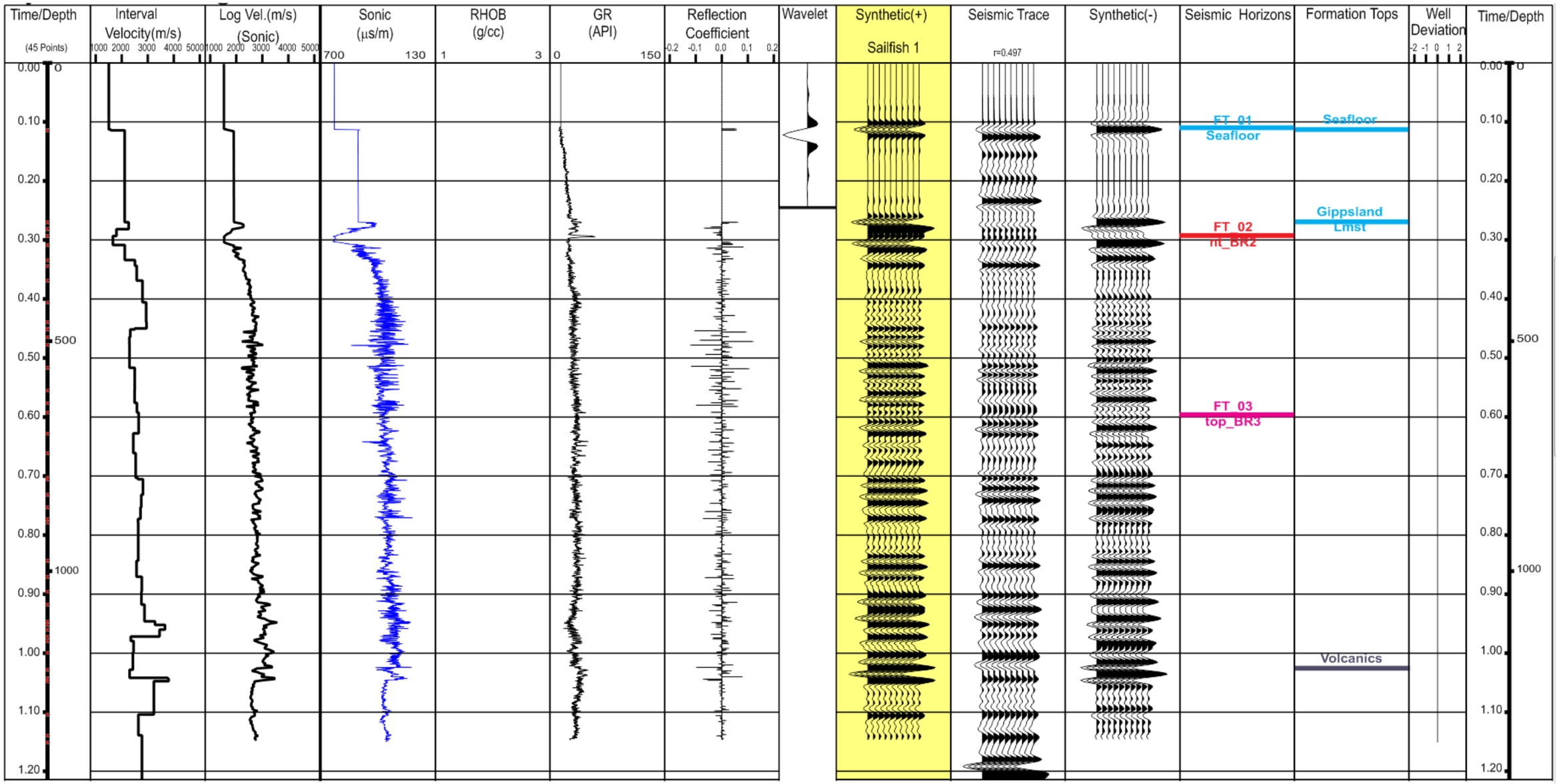


Figure A1.16. Sailfish-1 Synthetic Seismogram

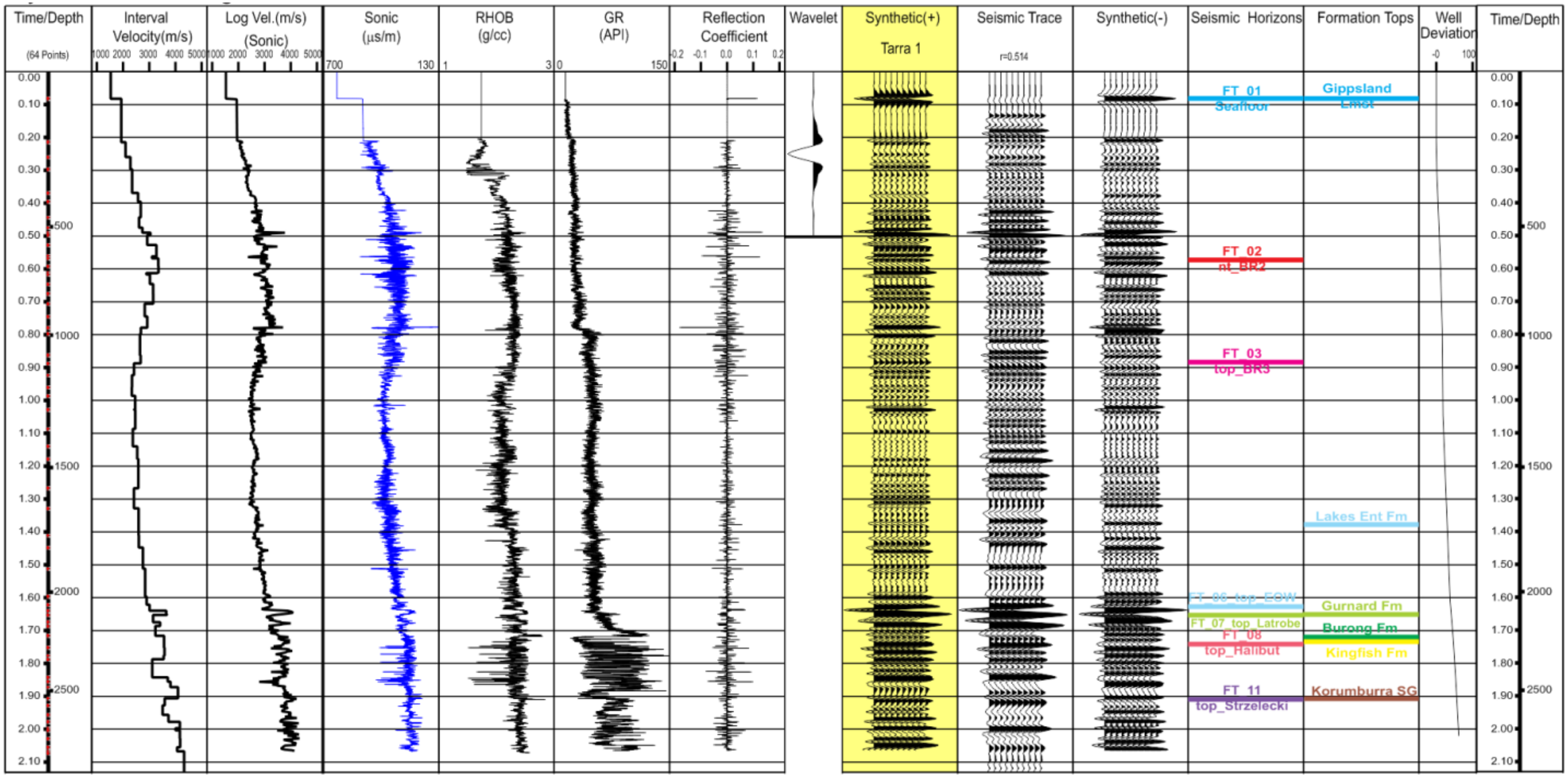


Figure A1.17. Tarra-1 Synthetic Seismogram

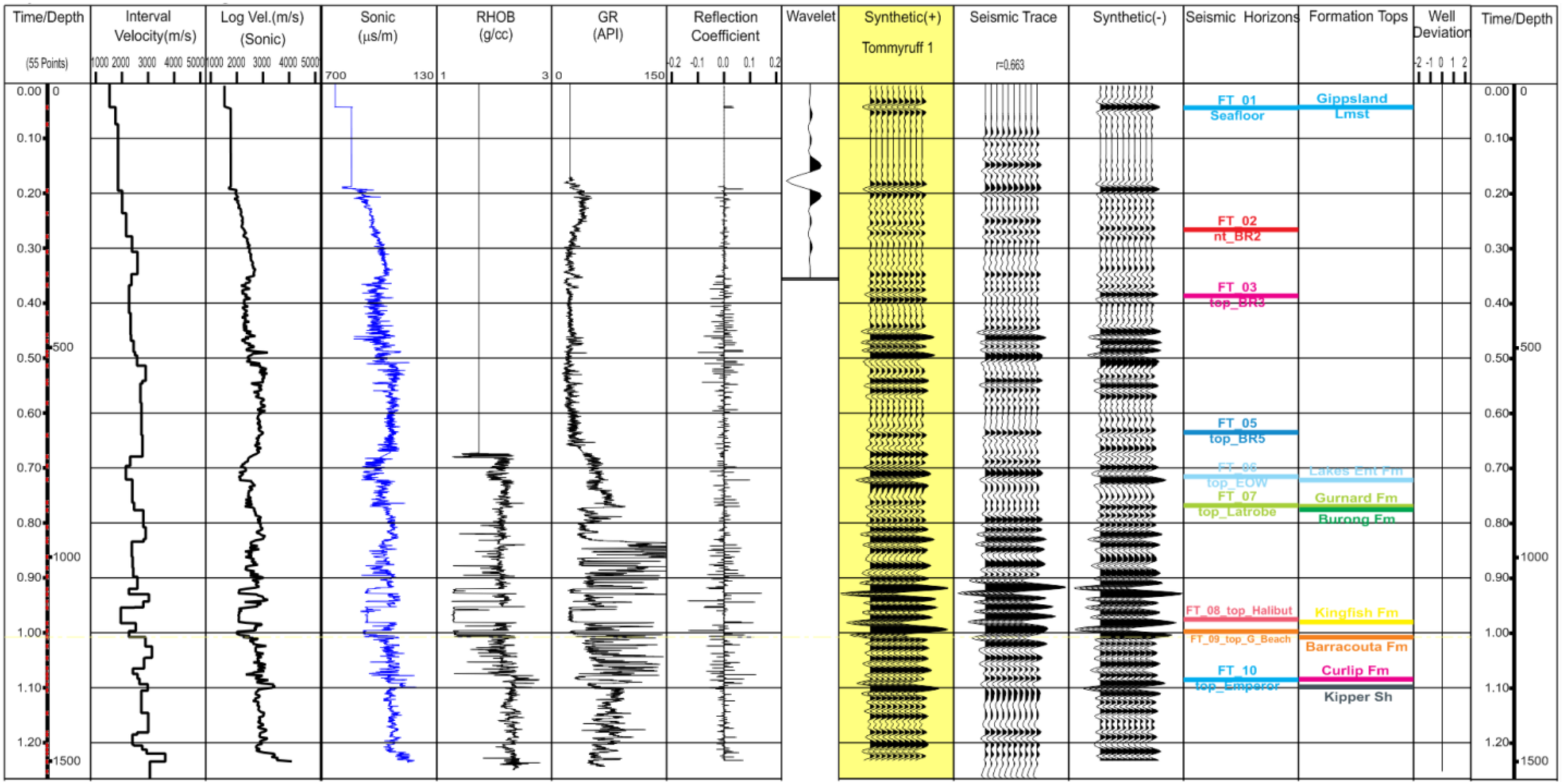


Figure A1.18. Tommyruff-1 Synthetic Seismogram

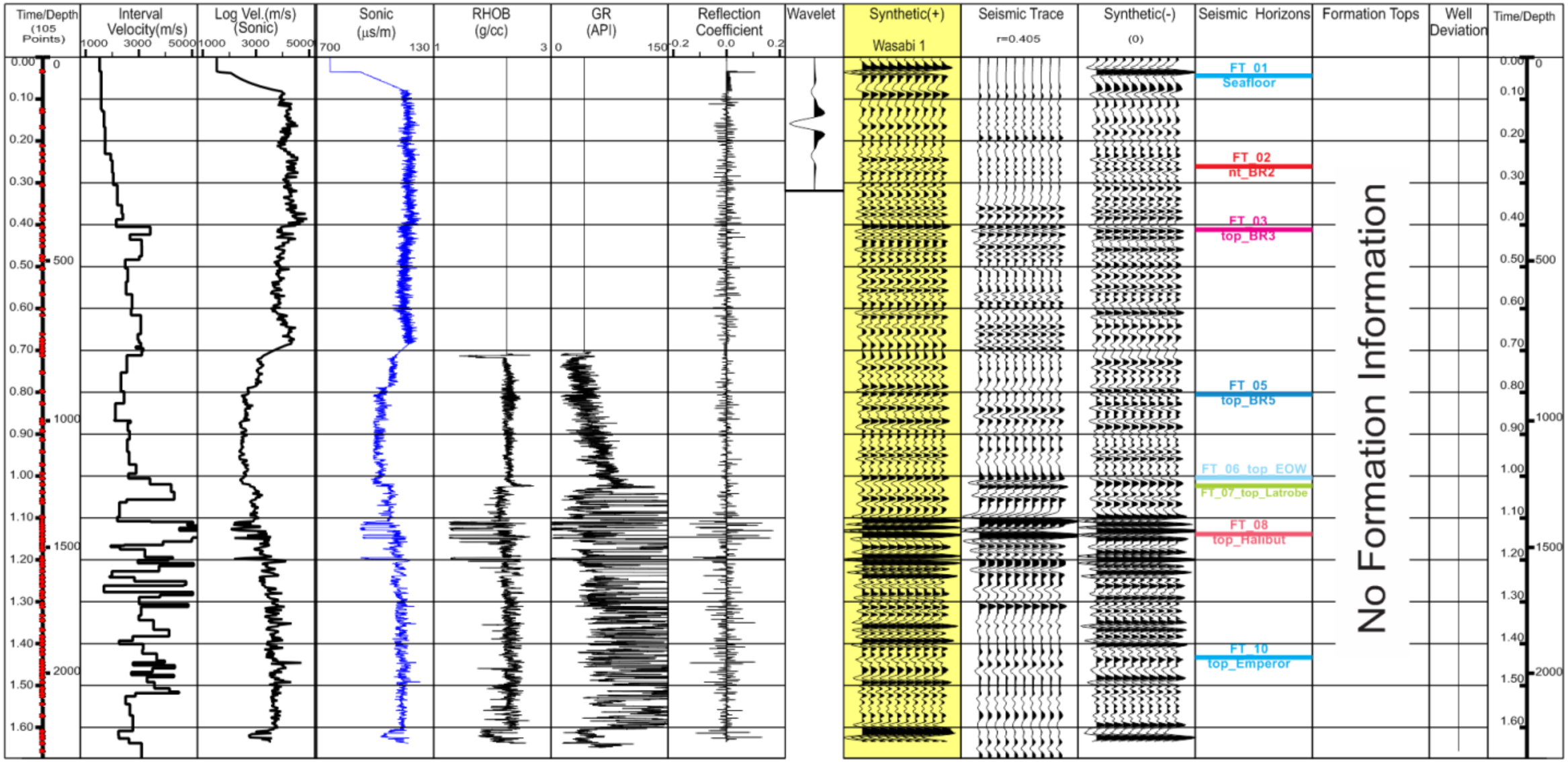


Figure A1.19. Wasabi-1 Synthetic Seismogram

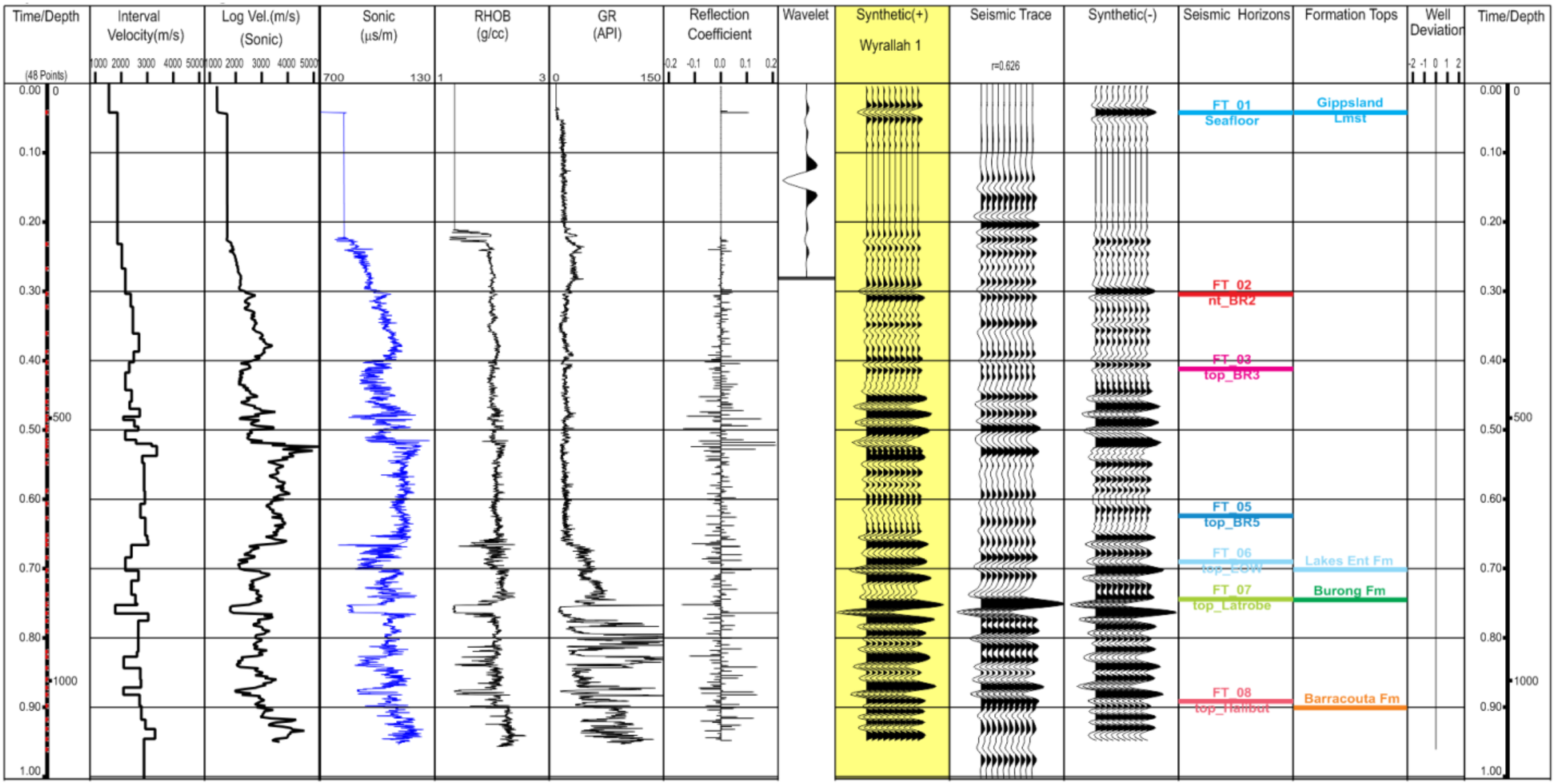


Figure A1.20. Wyrallah-1 Synthetic Seismogram

Appendix 2
Well Composites and Porosity/Permeability Data for 20 Key Wells

WELL	COMPOSITE	PORO-PERM
Amberjack-1		
Bluebone-1		1 value
Bullseye-1		No analyses
Devilfish-1		2 values
Groper-1		
Groper-2		
Kyarra-1A		
Melville-1		3 values
Moray-1		1 value
Mudskipper-1		3 values
Mullet-1		
Omeo-2A		No analyses
Perch-1		1 value
Pike-1		1 value
Pisces-1		No analyses
Sailfish-1		No analyses
Tarra-1		
Tommyruff-1		No analyses
Wasabi-1		No analyses
Wyrallah-1		No analyses

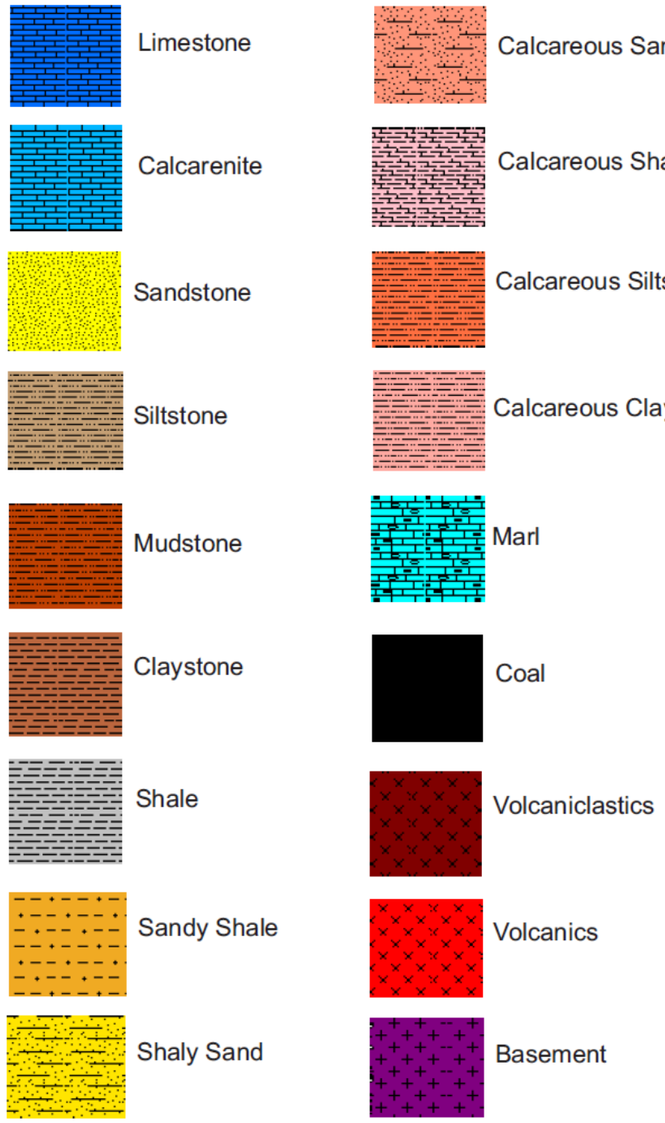
Listing of wells with composites (**green**) and porosity/permeability data sheets (**blue**). Limited porosity/permeability data are available in other wells as indicated by the number of values.

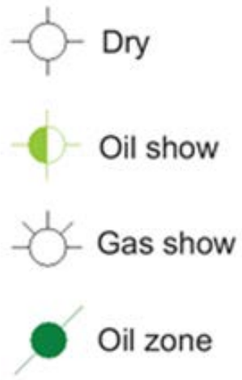
KEY TO COMPOSITES

ASPZ – Australian Spore Pollen Zonation

GSDZ – Gippsland Standard Dinocyst Zonation

TGZ – Taylor Gippsland Zonules





CSg – Cobia Subgroup

HSg – Halibut Subgroup

GBSg – Golden Beach Subgroup

ESg – Emperor Subgroup

Well: Amberjack-1
KB: 21m
Water depth: 37m MSL
TD: 1750m
Status: P&A
Shows: Minor O&G

Operator: BHP Petroleum Pty Ltd
Latitude: 38° 29' 33.44" S
Longitude: 147° 18' 55.05" E
Location: 5 km W Dolphin oil field, 17km offshore
Spud date: 04/05/1990
Completion date: 17/05/1990

Seismic reference for GDPI10 Survey
GDPI10-004

Play Type:
Evaluate the Top Latrobe 'Coarse Clastics' and Lower *N. asperus* and *M. diversus* sections

Reference

BHP Petroleum Pty Ltd Well Completion Report, PE902075
GA Petroleum Wells Database, Amberjack-1 Well Report

Logs
Gamma Ray, Caliper, SP, DT, RHOB

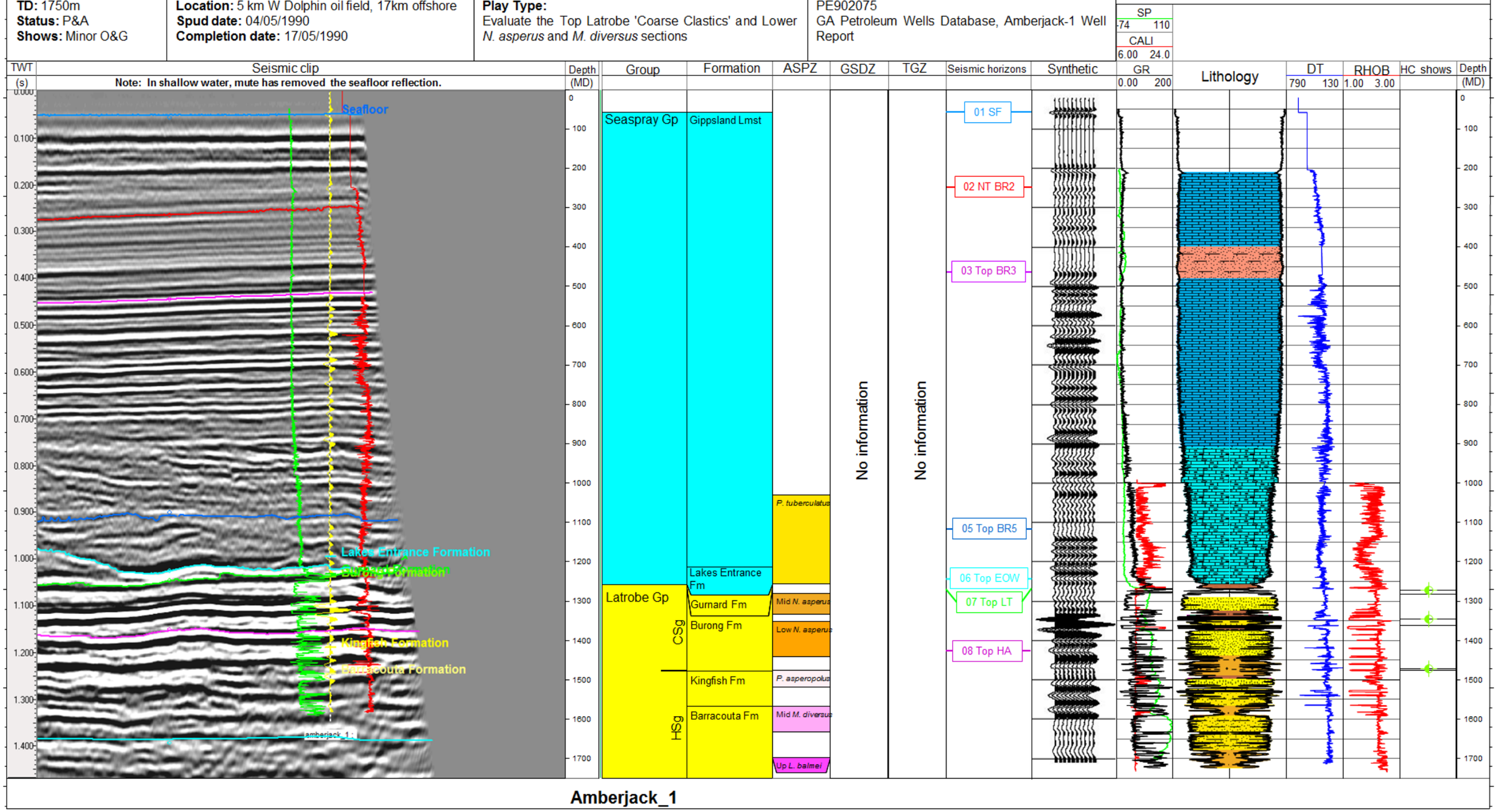
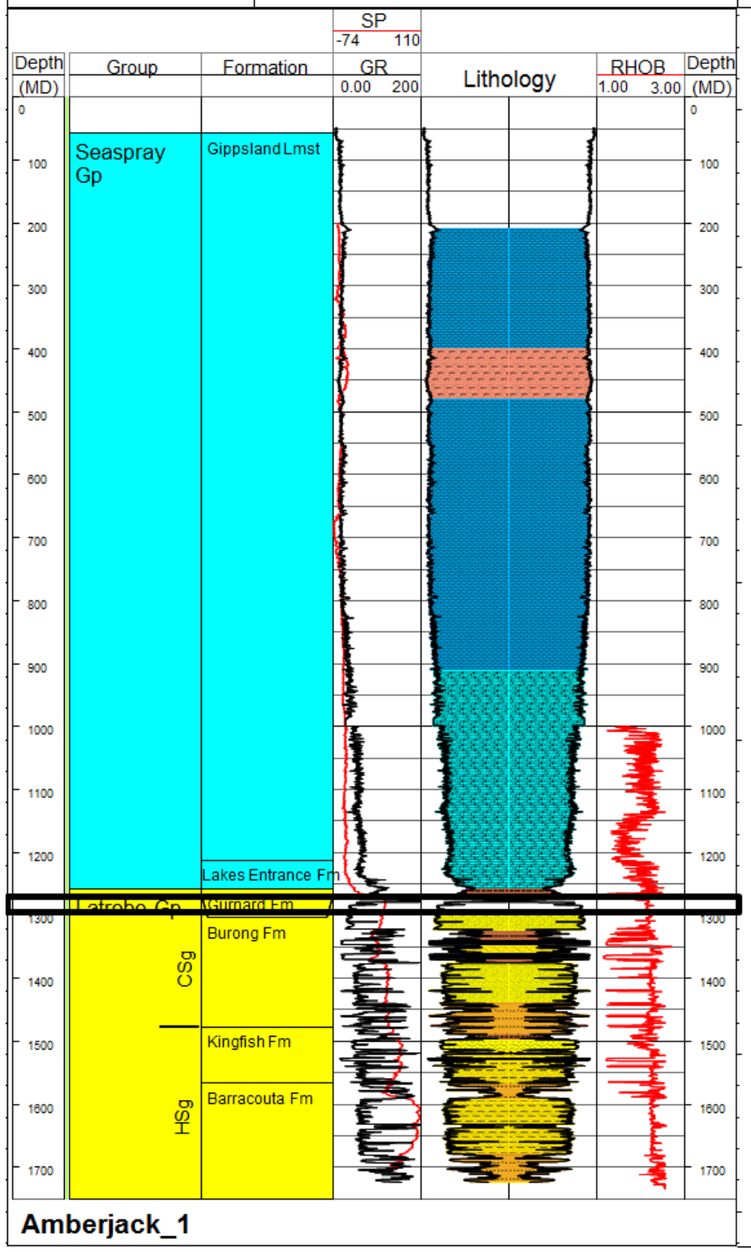


Figure A2.1. Amberjack-1 Well Composite. The TWT scale for the horizon panel is not equivalent to the depth scale in the remaining panels.

Well: Amberjack-1 **KB:** 21m **Water depth:** 37m MSL **TD:** 1750m **Status:** P&A **Shows:** Minor O&G	**Operator:** BHP Petroleum Pty Ltd **Latitude:** 38° 29' 33.44" S **Longitude:** 147° 18' 55.05" E **Location:** 5 km W Dolphin oil field, 17km offshore **Spud date:** 04/05/1990 **Completion date:** 17/05/1990	**Seismic reference for GDPI10 Survey** GDPI10-004 **Play Type:** Evaluate the Top Latrobe 'Coarse Clastics' and Lower *N.asperus* and *M.diversus* sections	**Reference** BHP Petroleum Pty Ltd Well Completion Report, PE902075 GA Petroleum Wells Database, Amberjack-1 Well Report	**Logs** Gamma Ray, SP, Lithology, RHOB



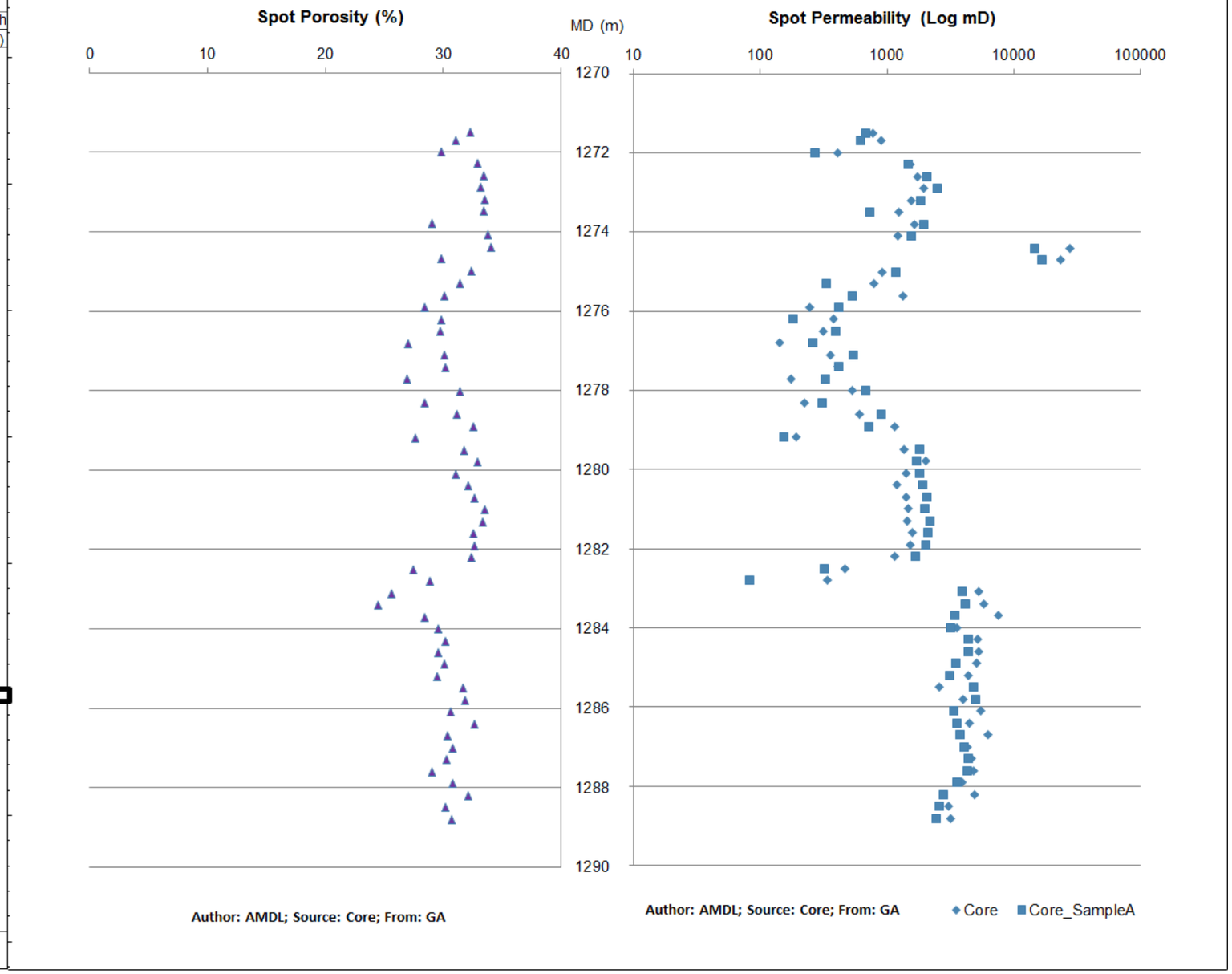


Figure A2.2. Amberjack-1 Porosity-Permeability Sheet. The black box overlaying the stratigraphic columns shows the interval where porosity/permeability measurements are available.

Well: Bluebone-1
KB: 9.4m
Water depth: 48.2m MSL
TD: 605m
Status: P&A
Shows: Dry

Operator: ESSO E&P Aus Ltd
Latitude: 39° 24' 24.296" S
Longitude: 147° 50' 52.740" E
Location: 32km N Flinders island, 21km S Mullet-1
Spud date: 26/09/1969
Completion date: 01/10/1969

Seismic reference for GDPI10 Survey
GDPI10-917 and GDPI10-045

Play Type:
Stratigraphic play - updip pinchout; onlapping Lakes Entrance Fm upper seal, impermeable granites and weather granite providing basal seal, targeting Latrobe Complex Sands as reservoir

Reference

ESSO E&P Aus Ltd Well Completion Report, OR_360
GA Petroleum Wells Database, Bluebone-1 Well Report

Logs
Gamma Ray, Caliper, SP, DT, RHOB

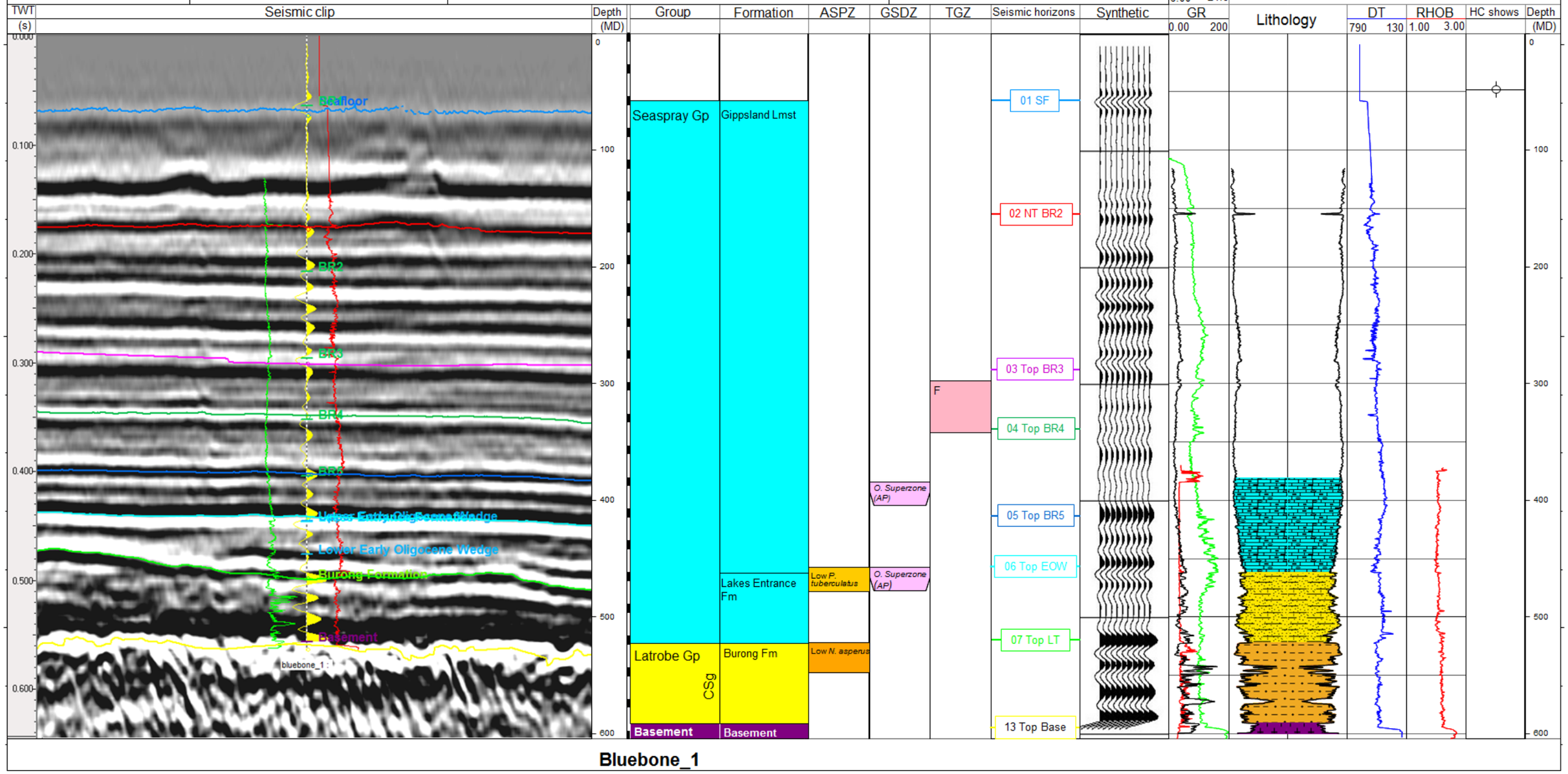


Figure A2.3. Bluebone-1 Well Composite. The TWT scale for the horizon panel is not equivalent to the depth scale in the remaining panels.

Well: Bullseye-1
KB: 9.7m
Water depth: 58.5m MSL
TD: 2368m
Status: P&A
Shows: Dry

Operator: ESSO Australia Ltd
Latitude: 38° 35' 29.352" S
Longitude: 147° 33' 59.466" E
Location: 19km SW Bream-2, 19km SE Dolphin-1
Spud date: 24/11/1973
Completion date: 05/12/1973

Seismic reference for GDPI10 Survey
GDPI10-906 and GDPI10-013

Play Type:
Structural trap; low relief, faulted anticline over the Latrobe Group with apparent hydrocarbon indicators

Reference

ESSO Australia Ltd Well Completion Report, W677
GA Petroleum Wells Database, Bullseye-1 Well Report

Logs
Gamma Ray, Caliper, SP, DT, RHOB

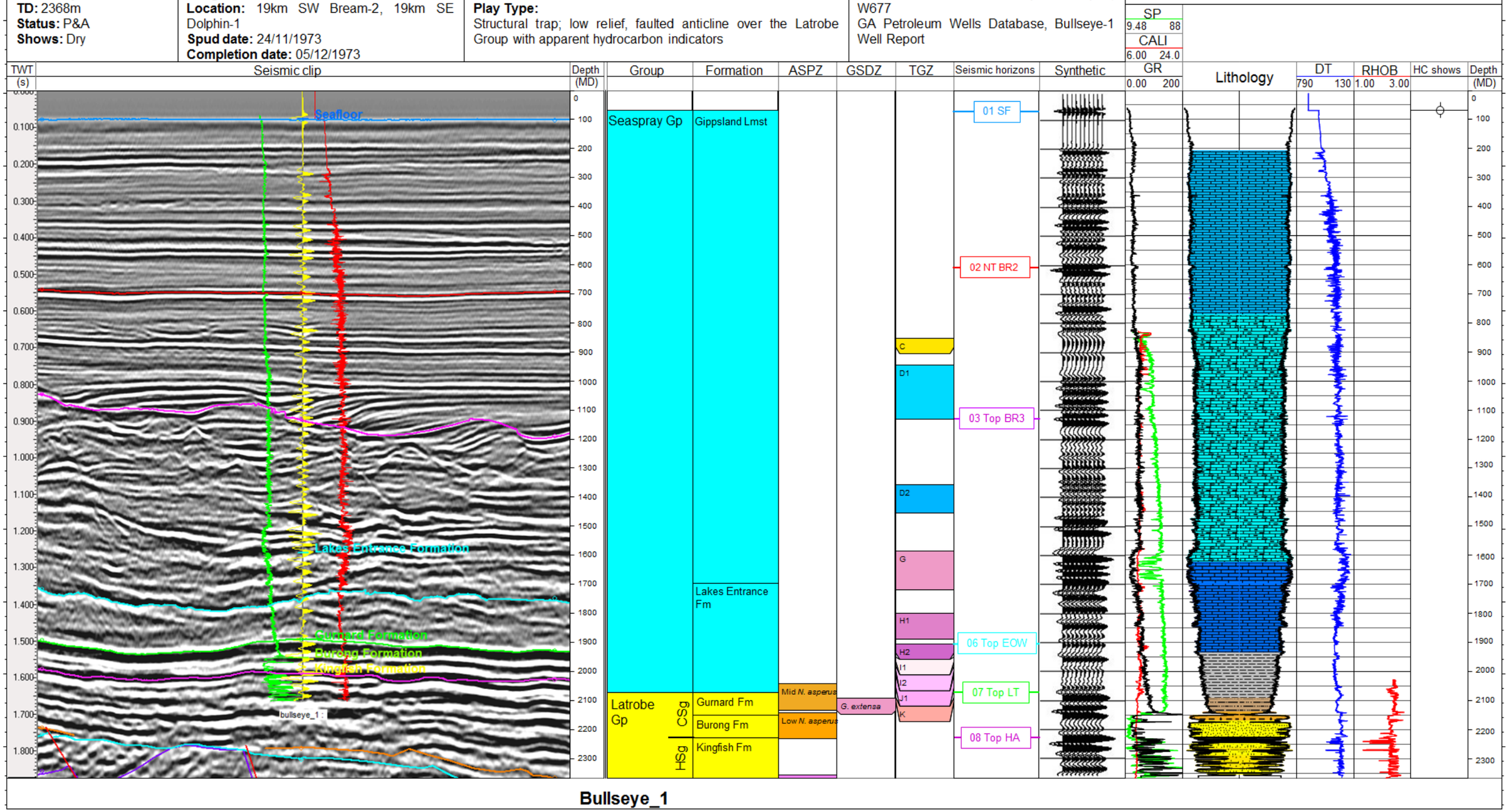


Figure A2.4. Bullseye-1 Well Composite. The TWT scale for the horizon panel is not equivalent to the depth scale in the remaining panels.

Well: Devilfish-1
KB: 28.4m
Water depth: 102.4m MSL
TD: 2058m
Status: P&A
Shows: Dry

Operator: SHELL Australia
Latitude: 38° 47' 58.21" S
Longitude: 147° 55' 10.54" E
Location:
Spud date: 10/04/1990
Completion date: 01/05/1990

Seismic reference for GDPI10 Survey
GDPI10-904 and GDPI10-028

Play Type:
Structural trap; downthrown fault trap at Top Latrobe Group; objective was barrier sandstones of the Latrobe Group

Reference

SHELL Australia Well Completion Report, W1026
GA Petroleum Wells Database, Devilfish-1 Well Report

Logs
Gamma Ray, Caliper, SP, DT, RHOB

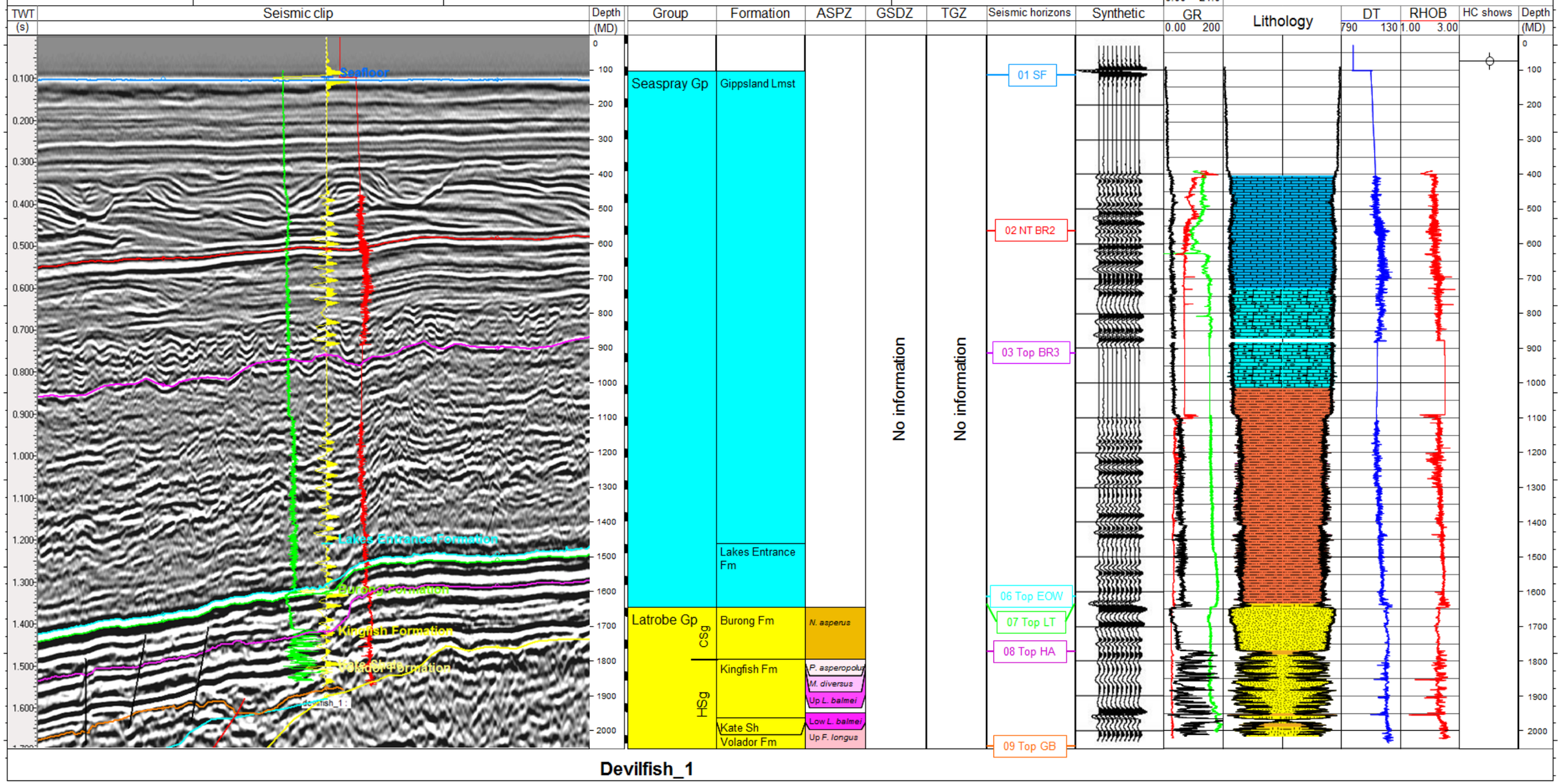


Figure A2.5. Devilfish-1 Well Composite. The TWT scale for the horizon panel is not equivalent to the depth scale in the remaining panels.

Well: Groper-1
KB: 10 mRT
Water depth: 59.7m MSL
TD: 1035.4m
Status: P&A
Shows: Dry

Operator: ESSO E&P Aus Ltd
Latitude: 38° 56' 20" S
Longitude: 147° 24' 56" E
Location: 42km SSE Perch-1; 74km SE Kingfish-3
Spud date: 18/12/1968
Completion date: 06/01/1969

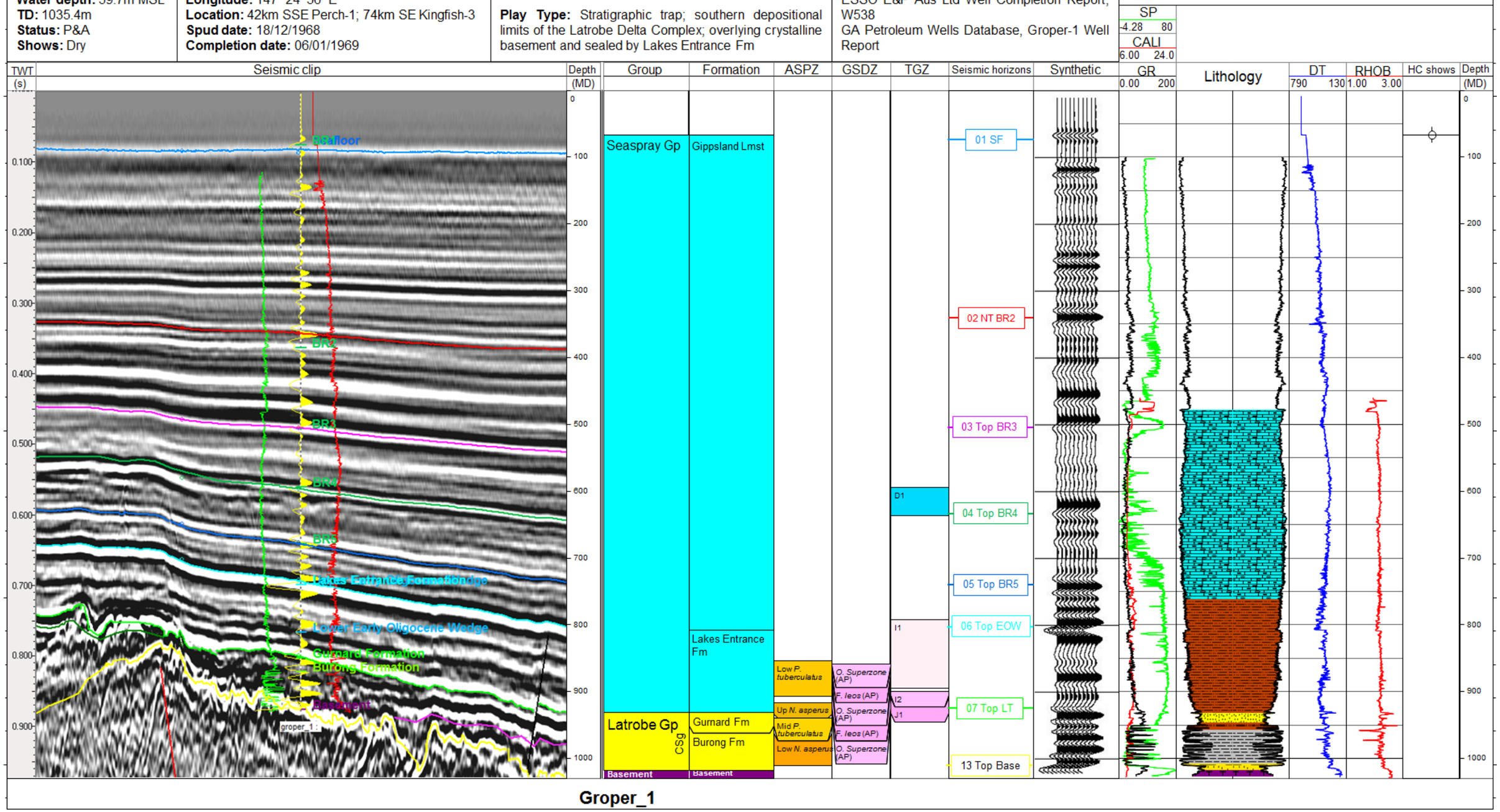
Seismic reference for GDPI10 Survey
GDPI10-914 and GDPI10-020

Play Type: Stratigraphic trap; southern depositional limits of the Latrobe Delta Complex; overlying crystalline basement and sealed by Lakes Entrance Fm

Reference

ESSO E&P Aus Ltd Well Completion Report, W538
GA Petroleum Wells Database, Groper-1 Well Report

Logs
Gamma Ray, Caliper, SP, DT, RHOB



Groper_1

Figure A2.6. Groper-1 Well Composite. The TWT scale for the horizon panel is not equivalent to the depth scale in the remaining panels.

Well: Groper-1 **KB:** 10 mRT **Water depth:** 59.7m MSL **TD:** 1035.4m **Status:** P&A **Shows:** Dry	**Operator:** ESSO E&P Aus Ltd **Latitude:** 38° 56' 20" S **Longitude:** 147° 24' 56" E **Location:** 42km SSE Perch-1; 74km SE Kingfish-3 **Spud date:** 18/12/1968 **Completion date:** 06/01/1969	**Seismic reference for GDPI10 Survey** GDPI10-914 and GDPI10-020 **Play Type:** Stratigraphic trap; southern depositional limits of the Latrobe Delta Complex; overlying crystalline basement and sealed by Lakes Entrance Formation	**Reference** ESSO E&P Aus Ltd Well Completion Report, W538 GA Petroleum Wells Database, Groper-1 Well Report	**Logs** Gamma Ray, SP, Lithology, RHOB

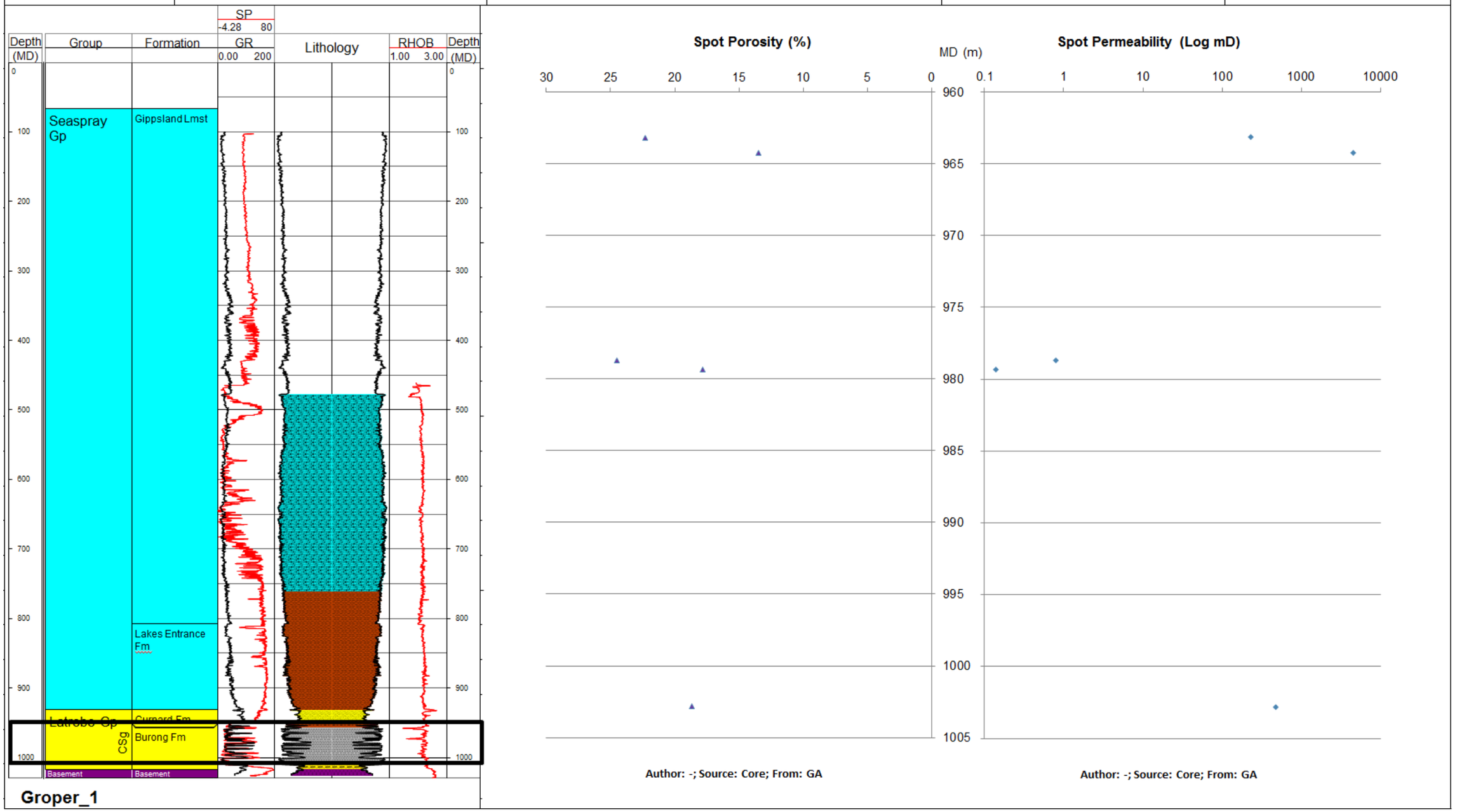


Figure A2.7. Groper-1 Porosity-Permeability Sheet. The black box overlaying the stratigraphic columns shows the interval where porosity/permeability measurements are available.

Well: Groper-2
KB: 9.4m
Water depth: 59.1m MSL
TD: 875m
Status: P&A
Shows: Dry

Operator: ESSO E&P Aus Ltd
Latitude: 38° 58' 39.93" S
Longitude: 147° 14' 12.83" E
Location: 43km offshore, 13km WSW Groper-1
Spud date: 09/09/1990
Completion date: 23/09/1990

Seismic reference for GDPI10 Survey
GDPI10-917 and GDPI10-017

Play Type: Stratigraphic trap; southern depositional limits of the Latrobe Delta Complex; overlying crystalline basement and sealed by Lakes Entrance Fm.

Reference

ESSO E&P Aus Ltd Well Completion Report, W558
GA Petroleum Wells Database, Groper-2 Well Report

Logs
Gamma Ray, Caliper, SP, DT, RHOB

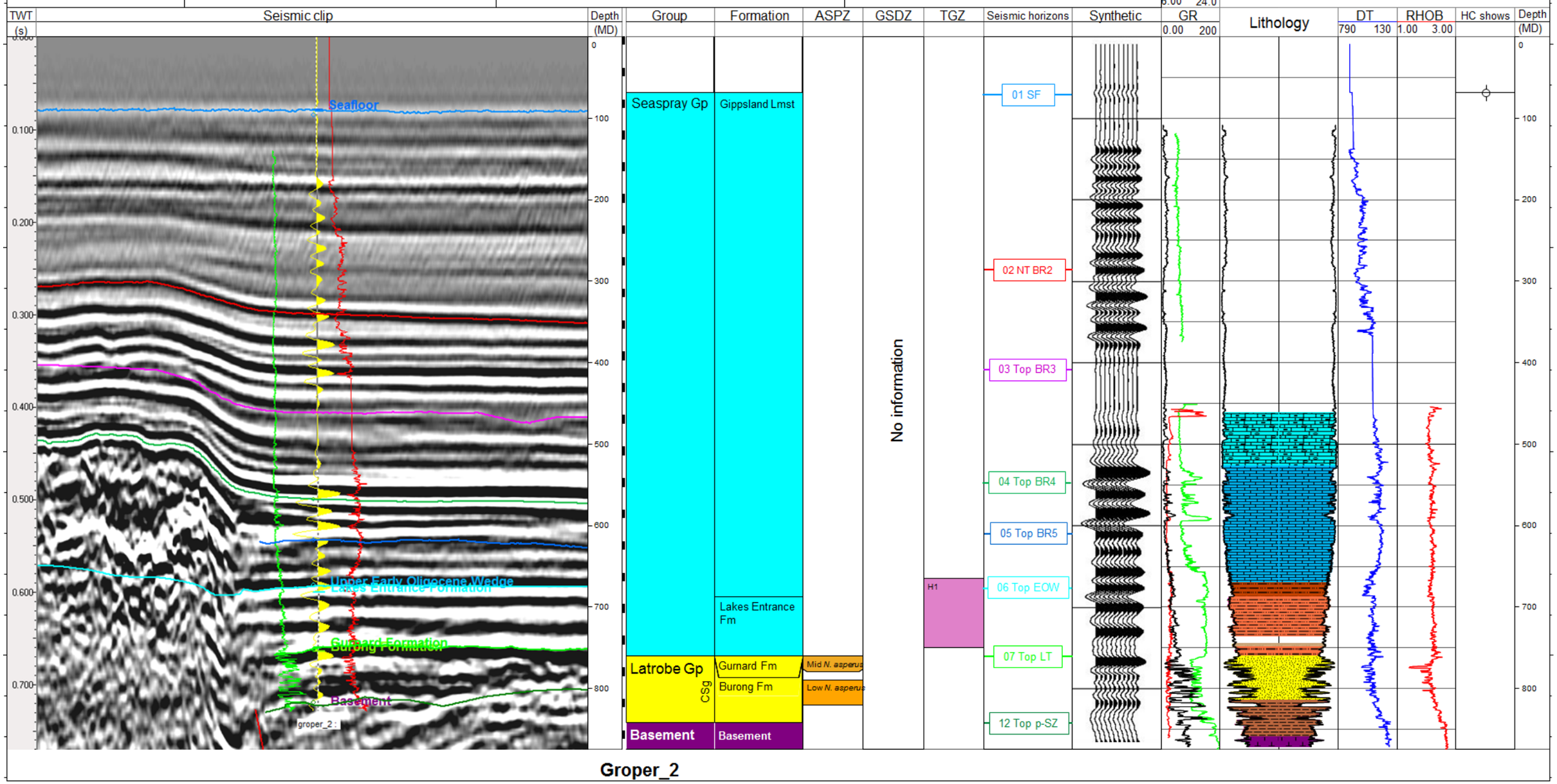


Figure A2.8. Groper-2 Well Composite. The TWT scale for the horizon panel is not equivalent to the depth scale in the remaining panels.

Well: Groper-2 **KB:** 9.4m **Water depth:** 59.1m MSL **TD:** 875m **Status:** P&A **Shows:** Dry	**Operator:** ESSO E&P Aus Ltd **Latitude:** 38° 58' 39.93" S **Longitude:** 147° 14' 12.83" E **Location:** 43km offshore, 13km WSW Groper-1 **Spud date:** 09/09/1990 **Completion date:** 23/09/1990	**Seismic reference for GDPI10 Survey** GDPI10-917 and GDPI10-017 **Play Type:** Stratigraphic trap; southern depositional limits of the Latrobe Delta Complex; overlying crystalline basement and sealed by Lakes Entrance Formation	**Reference** ESSO E&P Aus Ltd Well Completion Report, W558 GA Petroleum Wells Database, Groper-2 Well Report	**Logs** Gamma Ray, SP, Lithology, RHOB

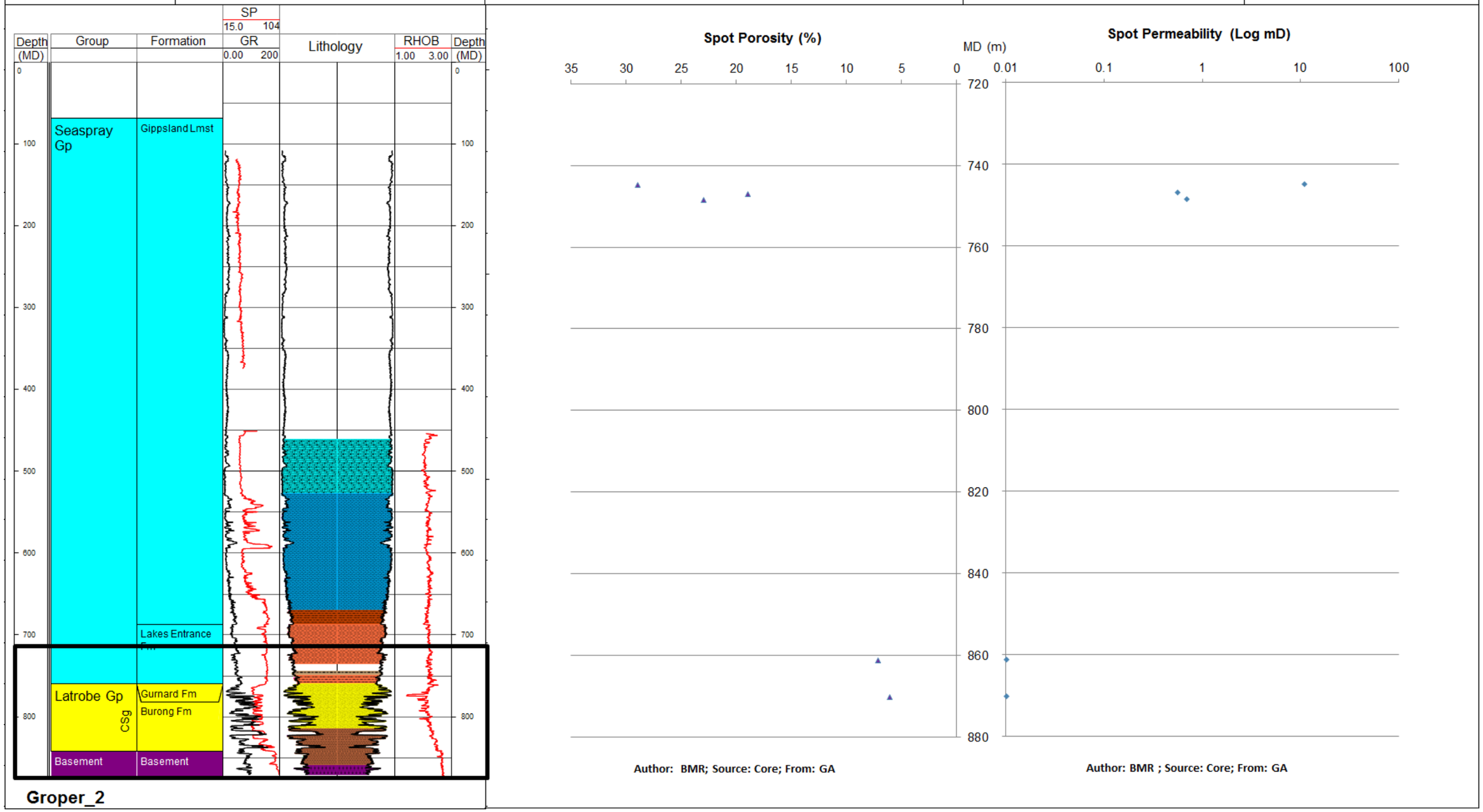


Figure A2.9. Groper-2 Porosity-Permeability Sheet. The black box overlaying the stratigraphic columns shows the interval where porosity/permeability measurements are available.

Well: Kyarra-1A
KB: 30.5m
Water depth: 43.5m MSL
TD: 1280m
Status: P&A
Shows: Dry

Operator: Aus Aquitaine Pet. Pty Ltd
Latitude: 38° 40' 52.532" S
Longitude: 147° 11' 12.228" E
Location: 20m WSW of Kyarra-1
Spud date: 16/02/1983
Completion date: 01/03/1983

Seismic reference for GDPI10 Survey
GDPI10-913 and GDPI10-007

Play Type: Stratigraphic trap; culmination formed by drag folding of Lake Cretaceous/Palaeocene to Miocene sediments situated on the folded up-thrown block of an E-W trending high angle reverse fault. Objective was a Latrobe Group deltaic sand body. Trap closure is independent of the fault.

Reference

Aus Aquitaine Pet. Pty Ltd Well Completion Report, W804
GA Petroleum Wells Database, Kyarra-1A Well Report

Logs
Gamma Ray, Caliper, SP, DT, RHOB

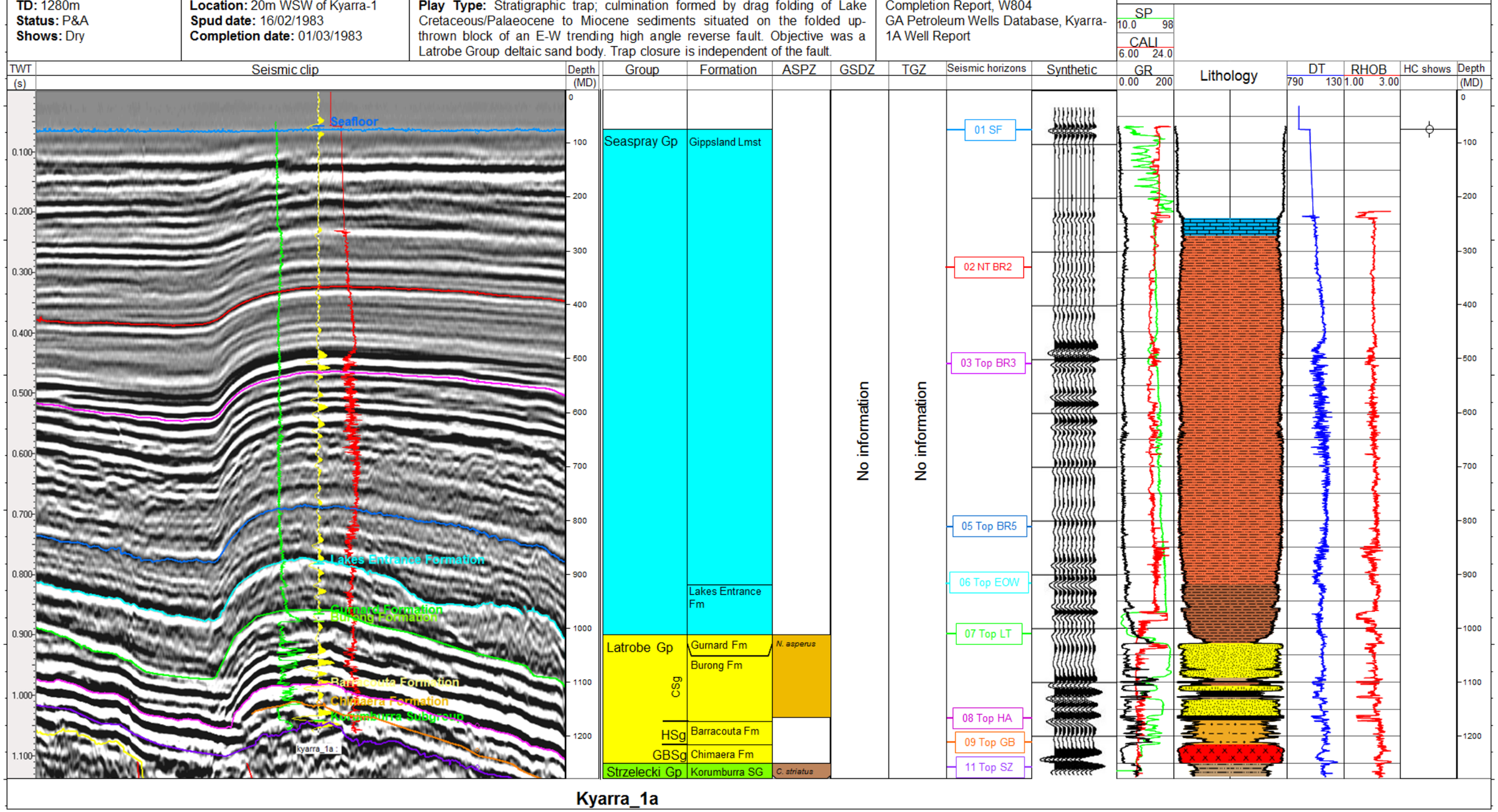
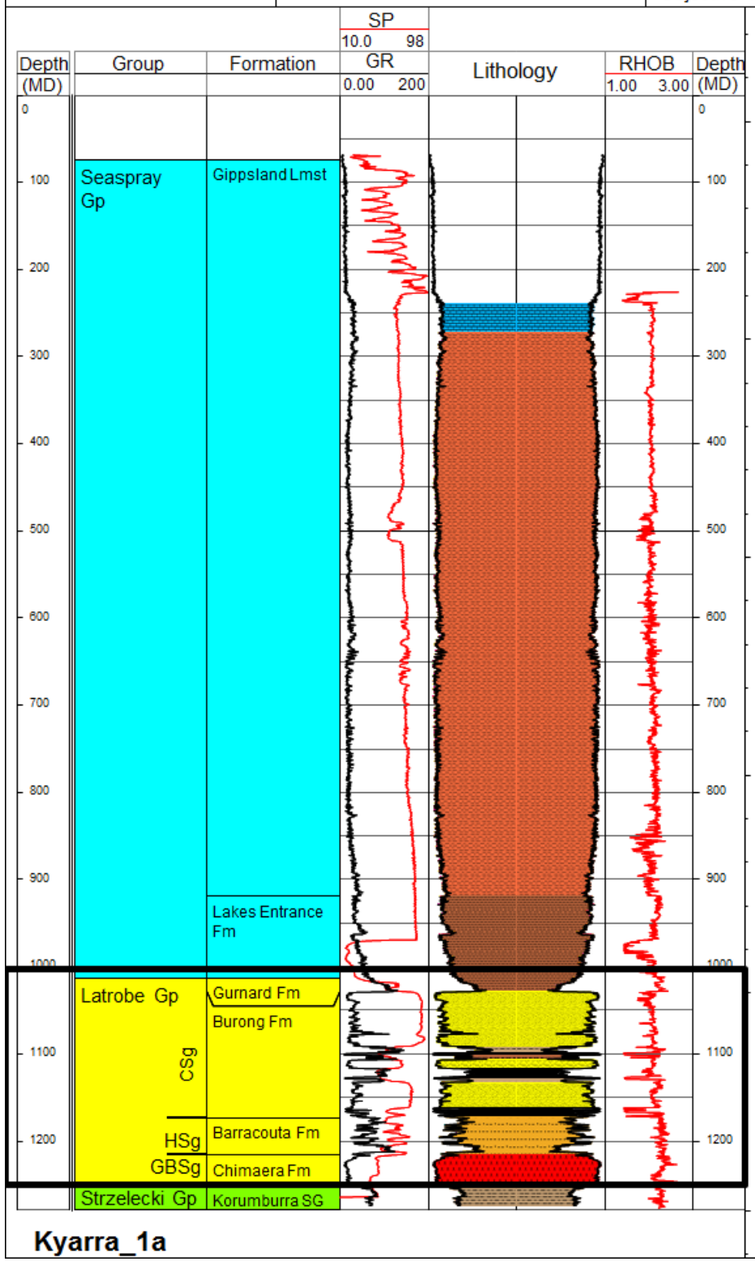


Figure A2.10. Kyarra-1A Well Composite. The TWT scale for the horizon panel is not equivalent to the depth scale in the remaining panels.

Well: Kyarra-1A **KB:** 30.5m **Water depth:** 43.5m MSL **TD:** 1280m **Status:** P&A **Shows:** Dry	**Operator:** Aus Aquitaine Pet. Pty Ltd **Latitude:** 38° 40' 52.532" S **Longitude:** 147° 11' 12.228" E **Location:** 20m WSW of Kyarra-1 **Spud date:** 16/02/1983 **Completion date:** 01/03/1983	**Seismic reference for GDPI10 Survey** GDPI10-913 and GDPI10-007 **Play Type:** Stratigraphic trap; culmination formed by drag folding of Lake Cretaceous/Paleocene to Miocene sediments situated on the folded up-thrown block of an E-W trending high angle reverse fault. Objective was a Latrobe Group deltaic sand body. Trap closure is independent of the fault.	**Reference** Aus Aquitaine Pet. Pty Ltd Well Completion Report, W804 GA Petroleum Wells Database, Kyarra-1A Well Report	**Logs** Gamma Ray, SP, Lithology, RHOB



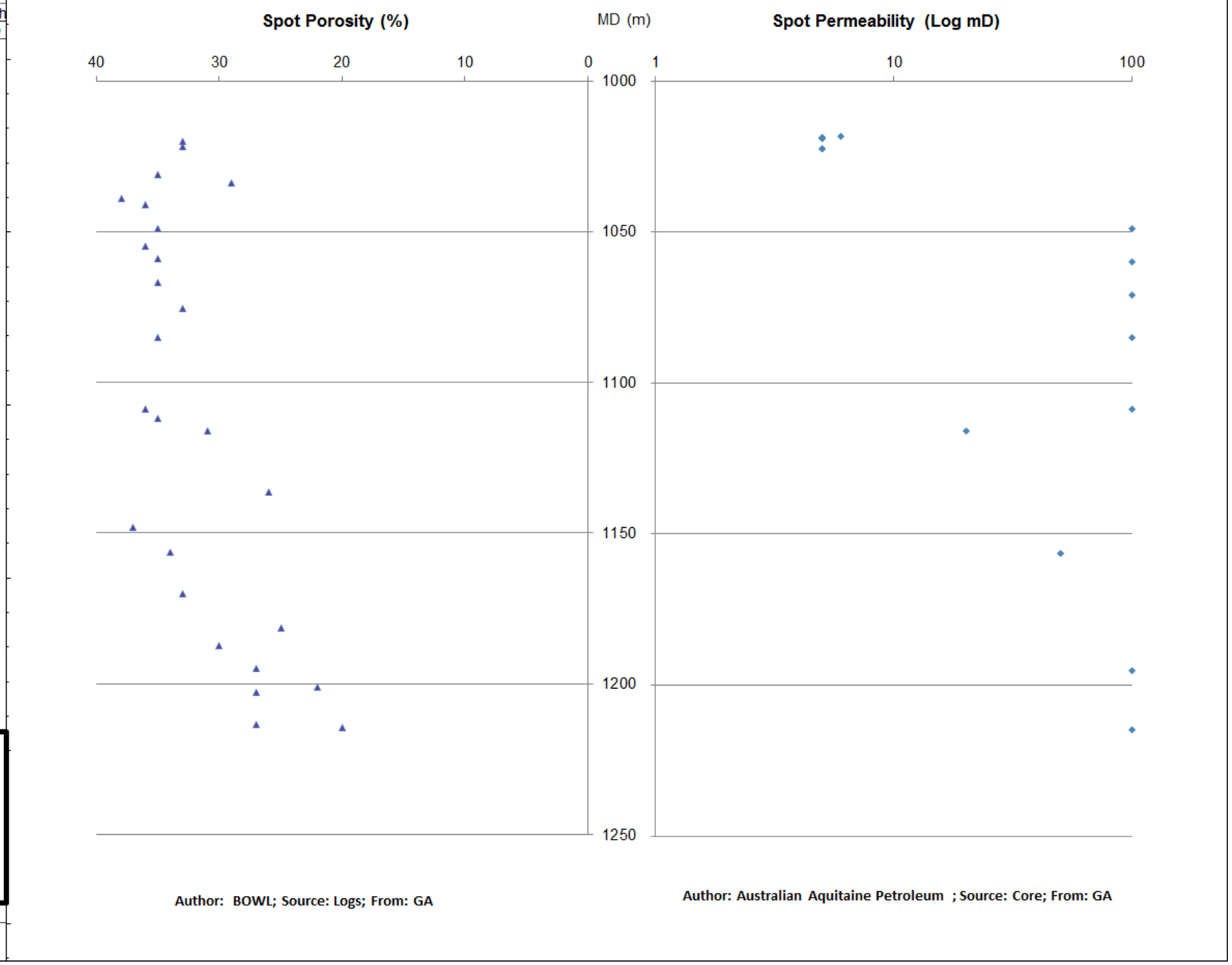


Figure A2.11. Kyarra-1A Porosity-Permeability Sheet. The black box overlaying the stratigraphic columns shows the interval where porosity/permeability measurements are available.

Well: Melville-1
KB: 25 mRT
Water depth: 75m MSL
TD: 3345m
Status: P&A
Shows: Dry

Operator: Bass Strait Oil Co Ltd
Latitude: 38° 40' 57.432" S
Longitude: 147° 59' 12.991" E
Location: 11km NNE Pike-1; 14km NNE Devilfish-1; 27km SW West Kingfish
Spud date: 17/10/2001
Completion date: 18/11/2001

Seismic reference for GDPI10 Survey
GDPI10-026

Play Type:
Test a culmination on the faulted anticline of the Melville Structure within the Golden Beach Subgroup, interpreted from seismic beneath the Latrobe Siliciclastics

Reference

Bass Strait Oil Co Ltd WCR Vol. 2, PE909971
GA Petroleum Wells Database, Melville-1A Well Report

Logs
Gamma Ray, SP, DT

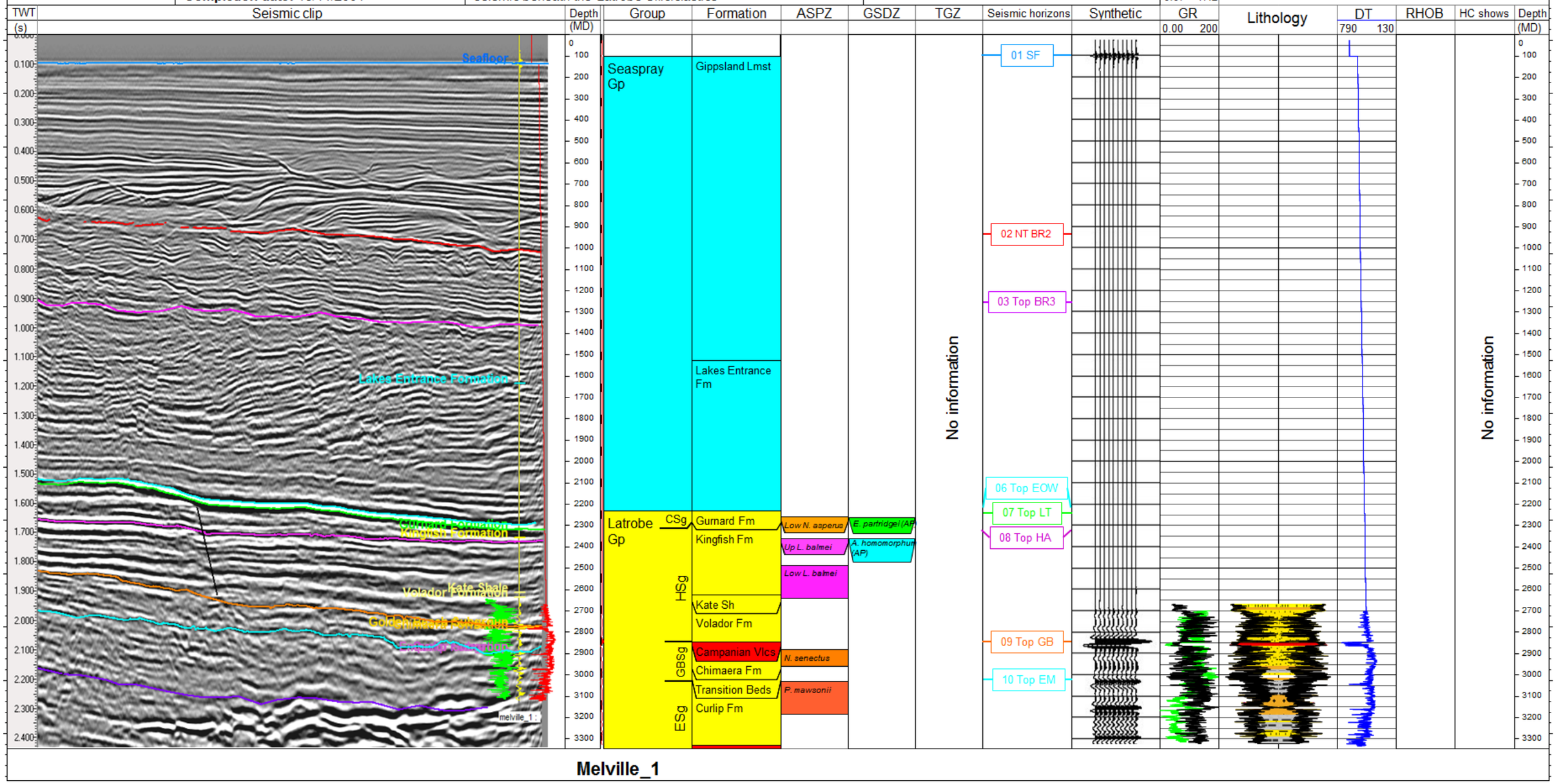


Figure A.2.12. Melville-1 Well Composite. The TWT scale for the horizon panel is not equivalent to the depth scale in the remaining panels.

Well: Moray-1
KB: 10m
Water depth: 75.5m MSL
TD: 2669.7m
Status: P&A
Shows: Dry

Operator: ESSO E&P Aus Inc
Latitude: 38° 51' 48.1" S
Longitude: 148° 03' 30.61" E
Location: 88km offshore; 196km from town of Sale
Spud date: 15/06/1972
Completion date: 09/07/1972

Seismic reference for GDPI10 Survey
GDPI10-903 and GDPI10-033

Play Type:
Top Latrobe-intra Latrobe fault dependent stratigraphic closure along a large south-bounding fault from Upper Cretaceous to Eocene units; upper sealing by Eocene sediments or by the fault

Reference

ESSO E&P Aus Inc Well Completion Report, W646
GA Petroleum Wells Database, Moray-1 Well Report

Logs
Gamma Ray, Caliper, SP, DT, RHOB

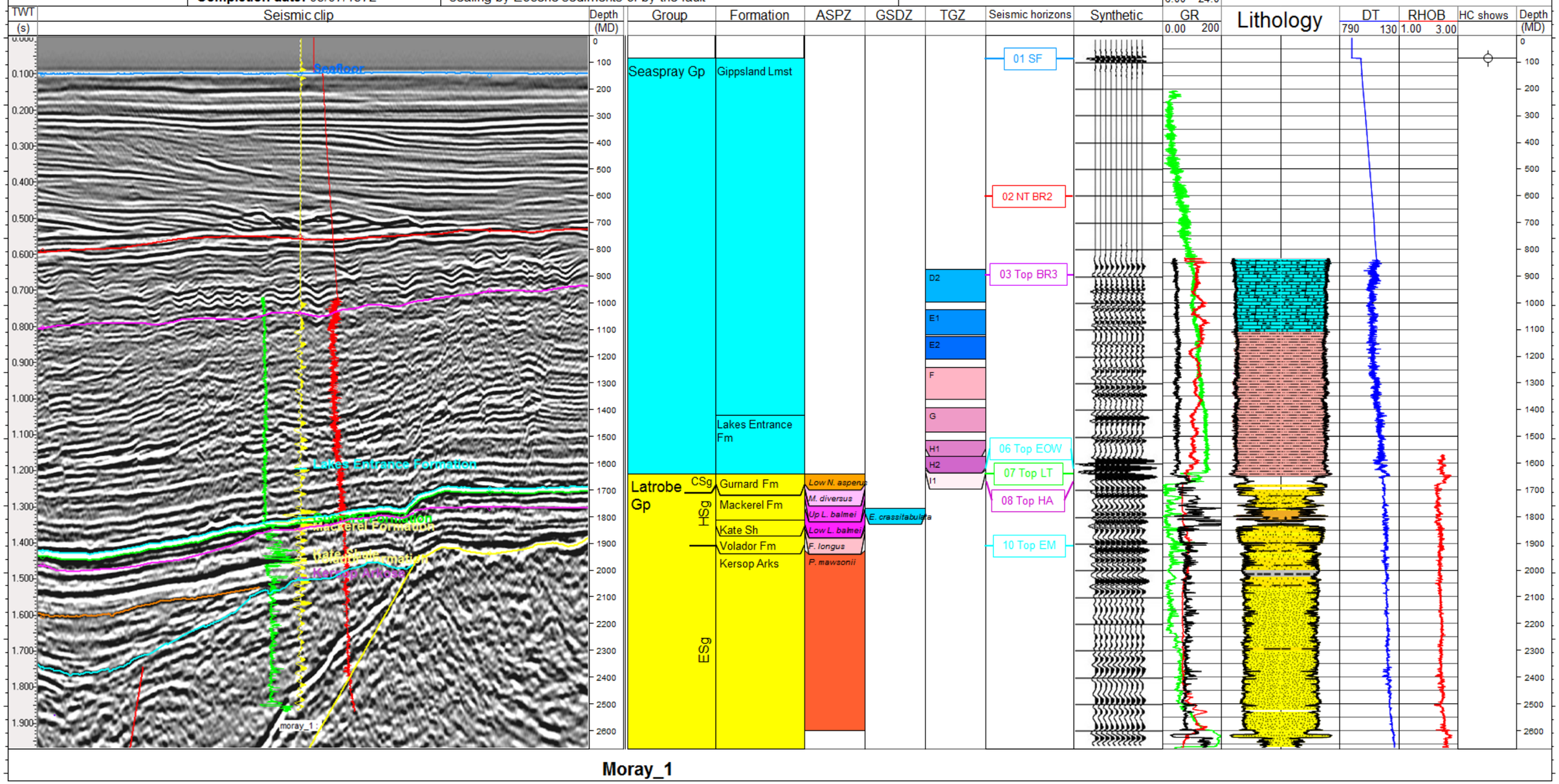


Figure A2.13. Moray-1 Well Composite. The TWT scale for the horizon panel is not equivalent to the depth scale in the remaining panels.

Well: Mudskipper-1
KB: 27m
Water depth: 74m MSL
TD: 1631m
Status: P&A
Shows: Dry

Operator: Petrofina Epl. Aus S.A.
Latitude: 38° 54' 31.6" S
Longitude: 148° 07' 58.2" E
Location: 35km S Kingfish oil field; 8.75km SSE Moray-1
Spud date: 11/06/1990
Completion date: 25/06/1990

Seismic reference for GDPI10 Survey
GDPI10-036

Play Type:
Stratigraphic trap; Maastrichtian pinchout in Latrobe Group overlying basement and top-sealed by transgressive Palaeocene sediments.

Reference

Petrofina Epl. Aus S.A Well Completion Report, W1032
GA Petroleum Wells Database, Mudskipper-1 Well Report

Logs
Gamma Ray, Caliper, SP, DT, RHOB

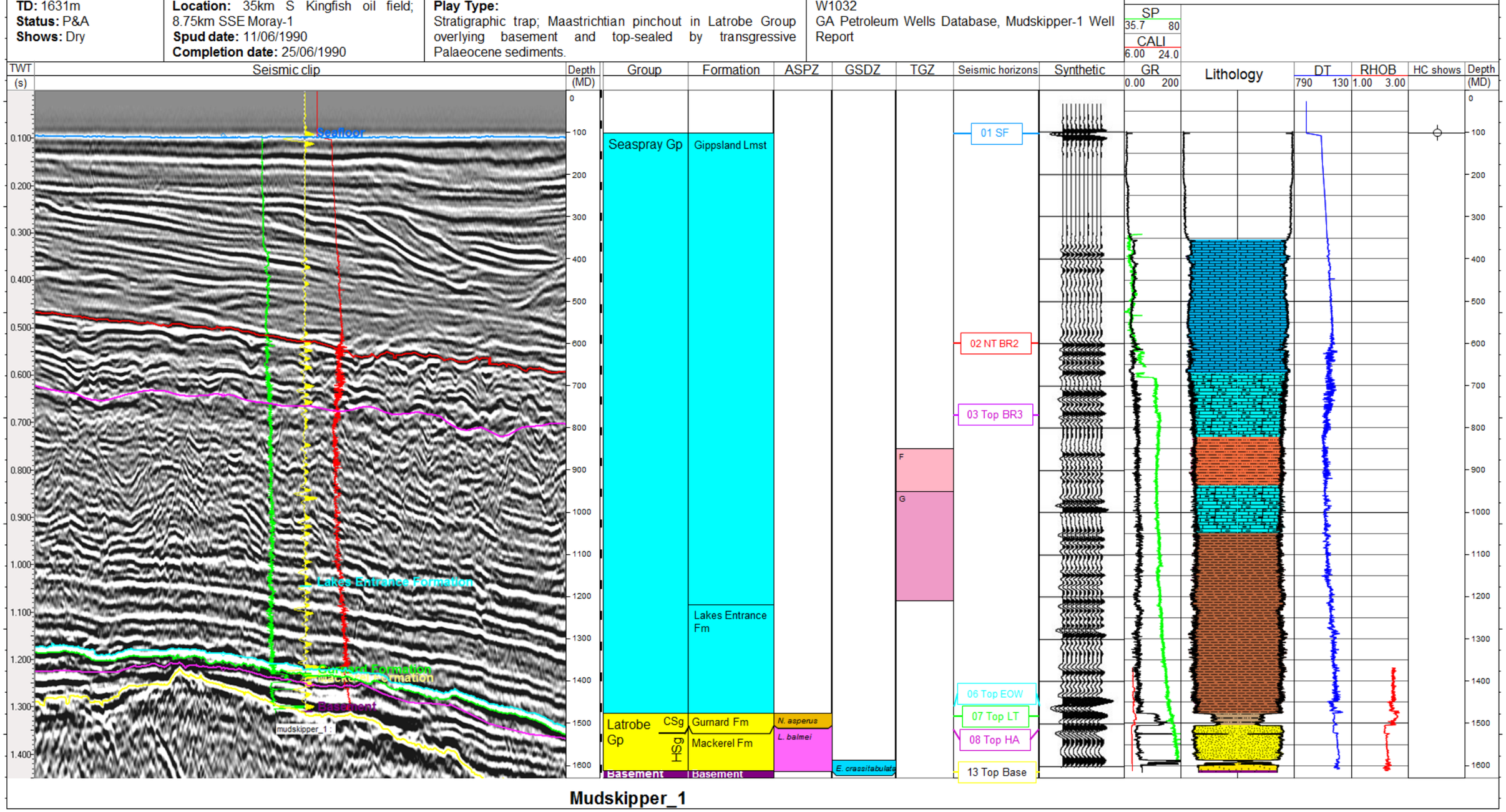


Figure A.2.14. Mudskipper-1 Well Composite. The TWT scale for the horizon panel is not equivalent to the depth scale in the remaining panels.

Well: Mullet-1
KB: 10 mRT
Water depth: 53m MSL
TD: 751m
Status: P&A
Shows: Dry

Operator: ESSO E&P Aus Inc
Latitude: 38° 13' 2 " S
Longitude: 147° 51' 22" E
Location: 50km SE Groper-1; 66km SSW Kingfish-3
Spud date: 09/01/1969
Completion date: 17/01/1969

Seismic reference for GDPI10 Survey
GDPI10-913 and GDPI10-039

Play Type:
Stratigraphic trap; southern depositional limits of the Latrobe Group, onlaps basement and sealed by Lakes Entrance Formation

Reference

ESSO E&P Aus Inc Well Completion Report, OR_341
GA Petroleum Wells Database, Mullet-1 Well Report

Logs
Gamma Ray, Caliper, SP, DT, RHOB

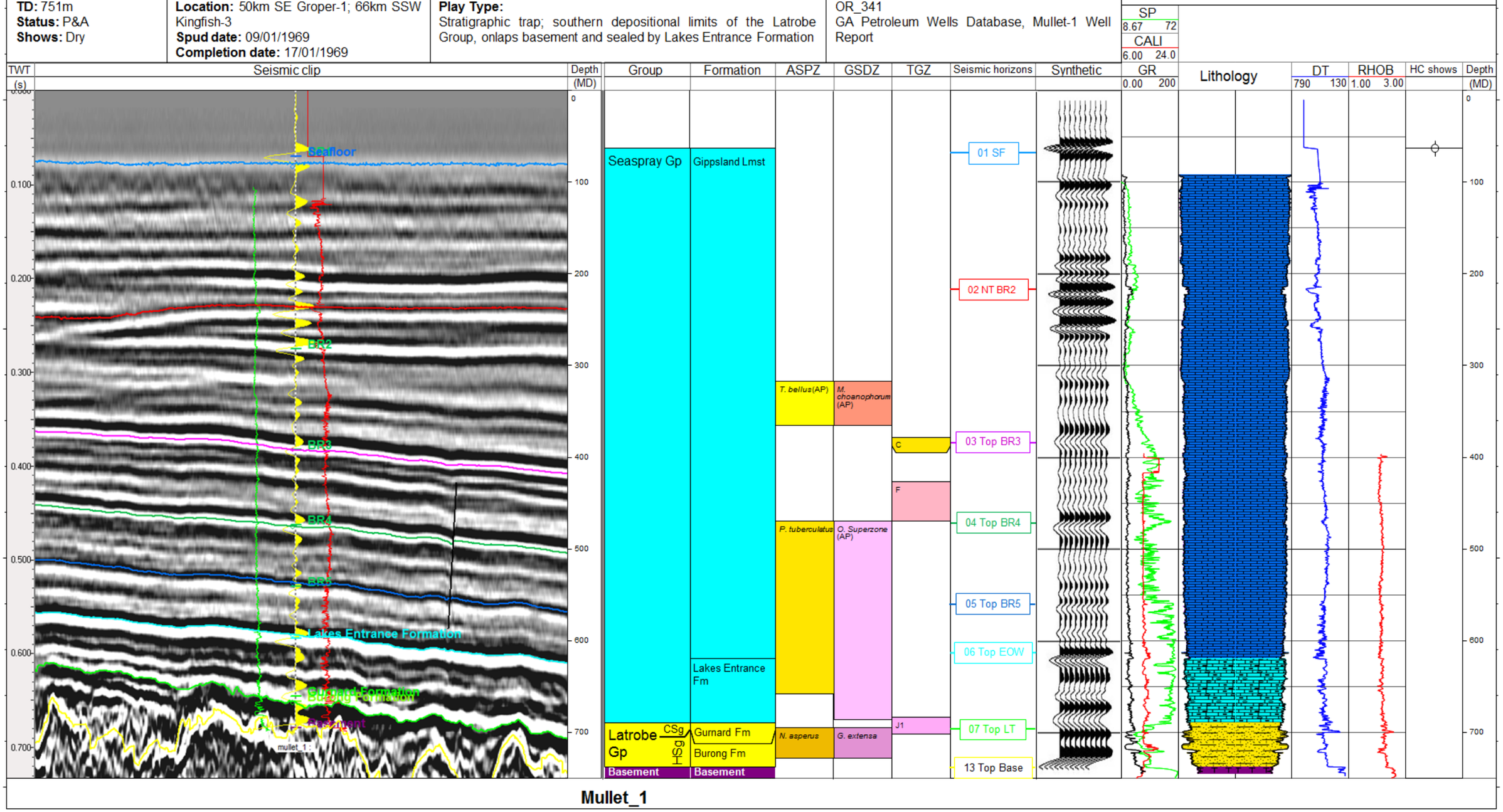


Figure A.2.15. Mullet-1 Well Composite. The TWT scale for the horizon panel is not equivalent to the depth scale in the remaining panels.

Well: Mullet-1 **KB:** 10 mRT **Water depth:** 53m MSL **TD:** 751m **Status:** P&A **Shows:** Dry	**Operator:** ESSO E&P Aus Inc **Latitude:** 38° 13' 2 " S **Longitude:** 147° 51' 22" E **Location:** 50km SE Groper-1; 66km SSW Kingfish-3 **Spud date:** 09/01/1969 **Completion date:** 17/01/1969	**Seismic reference for GDPI10 Survey** GDPI10-913 and GDPI10-039 **Play Type:** Stratigraphic trap; southern depositional limits of the Latrobe Group, onlaps basement and sealed by Lakes Entrance Formation.	**Reference** ESSO E&P Aus Inc Well Completion Report, OR_341 GA Petroleum Wells Database, Mullet-1 Well Report	**Logs** Gamma Ray, SP, Lithology, RHOB

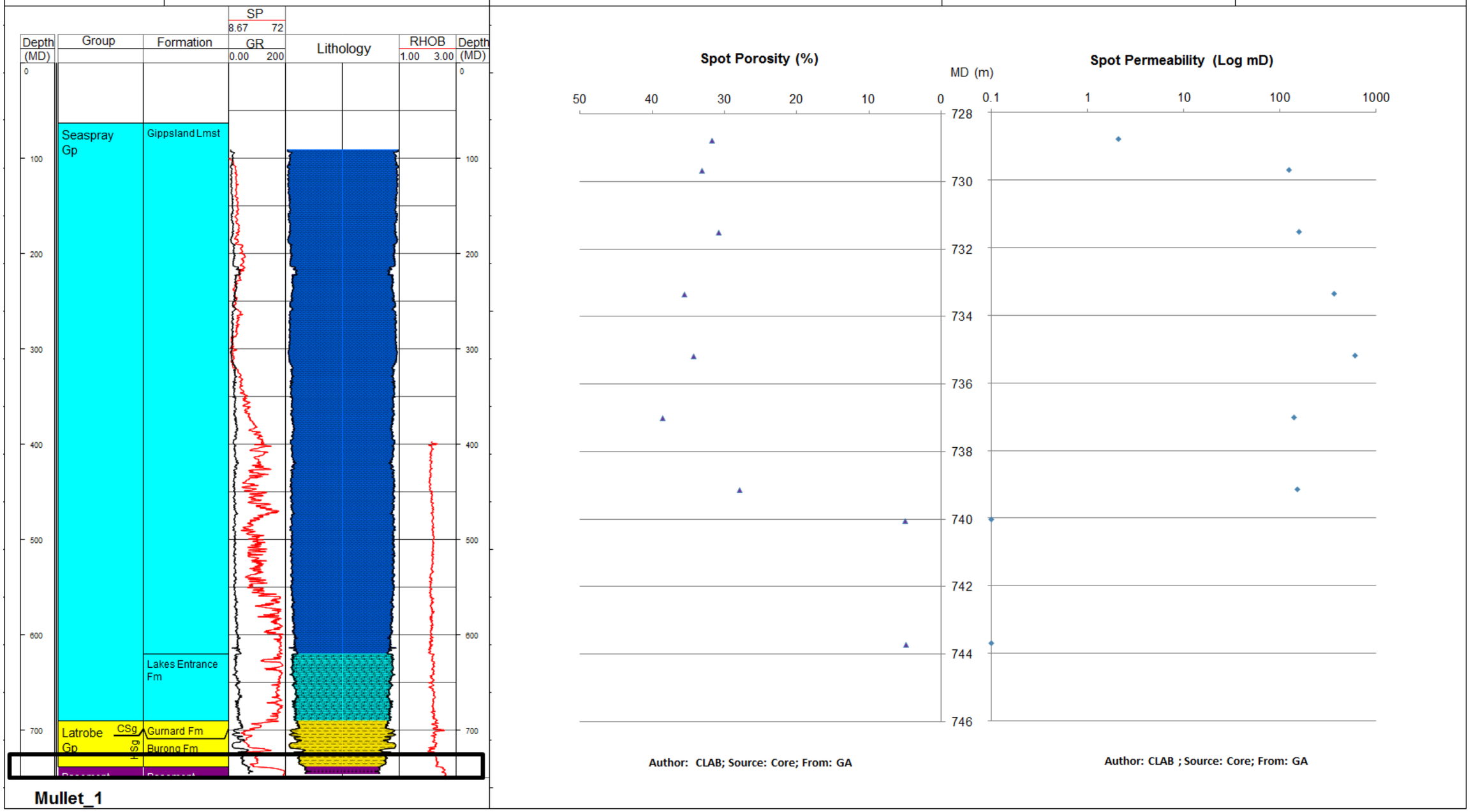


Figure A2.16. Mullet-1 Porosity-Permeability Sheet. The black box overlaying the stratigraphic columns shows the interval where porosity/permeability measurements are available.

Well: Omeo-2A
KB: 22m
Water depth: 62m MSL
TD: 3400m
Status: P&A
Shows: Dry

Operator: Elf Aquitaine Pet Aus Pty Ltd
Latitude: 38° 36' 21.864" S
Longitude: 147° 42' 38.364" E
Location: 30m from Omeo-2, 900m NW Omeo-1; 4km NNE Tarra-1
Spud date: 15/05/1985
Completion date: 24/06/1985

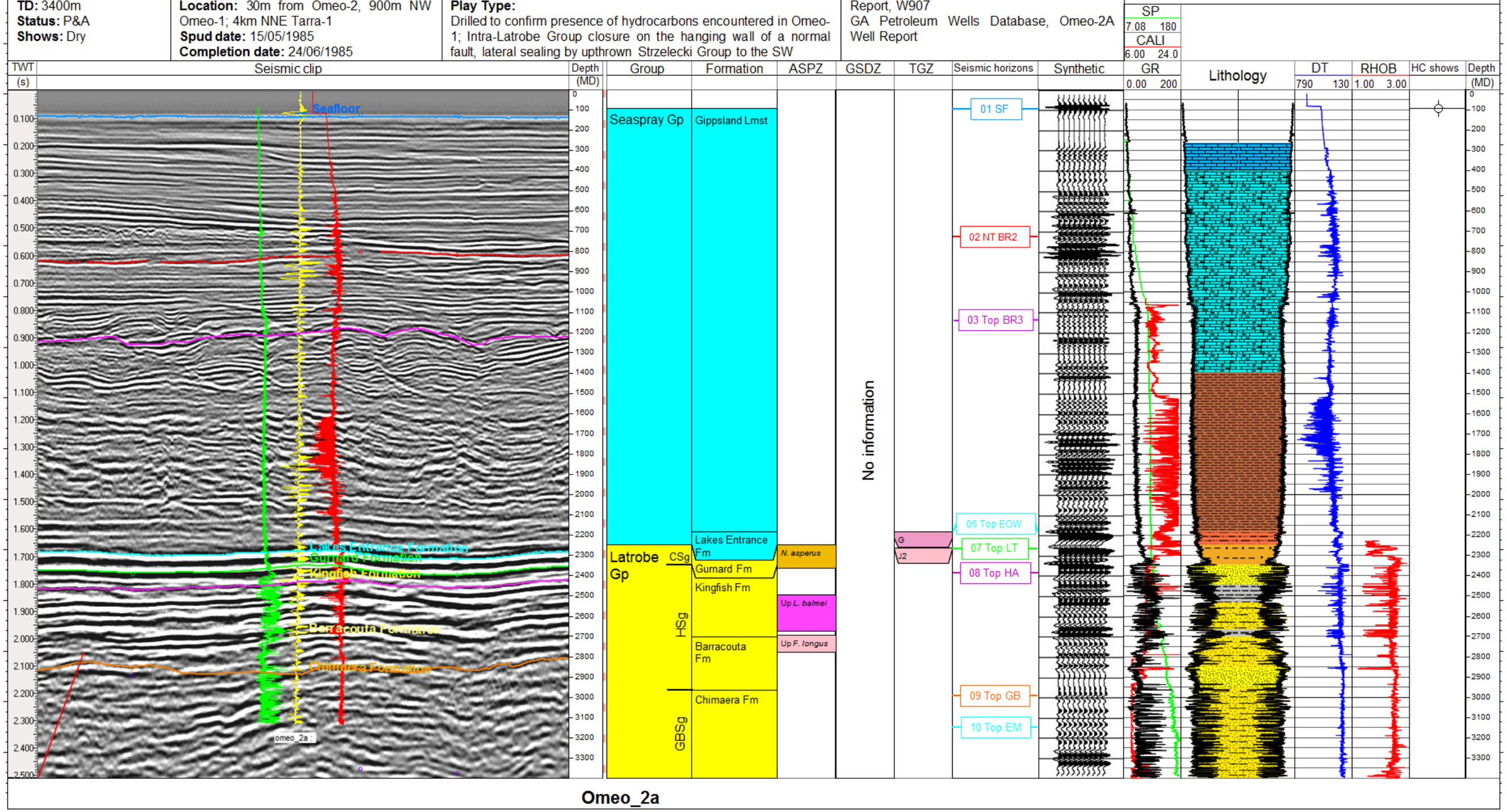
Seismic reference for GDPI10 Survey
GDPI10-904

Play Type:
Drilled to confirm presence of hydrocarbons encountered in Omeo-1; Intra-Latrobe Group closure on the hanging wall of a normal fault, lateral sealing by upthrown Strzelecki Group to the SW

Reference

Elf Aquitaine Pet Aus Pty Ltd Well Completion Report, W907
GA Petroleum Wells Database, Omeo-2A Well Report

Logs
Gamma Ray, Caliper, SP, DT, RHOB



Omeo_2a

Figure A2.17. Omeo-2A Well Composite. The TWT scale for the horizon panel is not equivalent to the depth scale in the remaining panels.

Well: Perch-1
KB: 9.4m RT
Water depth: 42m MSL
TD: 2866.9m
Status: P&A
Shows: Oil

Operator: ESSO E&P Aus Inc
Latitude: 38° 34' 37" S
Longitude: 147° 19' 24" E
Location: 10.4km SW Dolphin A-1
Spud date: 13/03/1968
Completion date: 02/05/1968

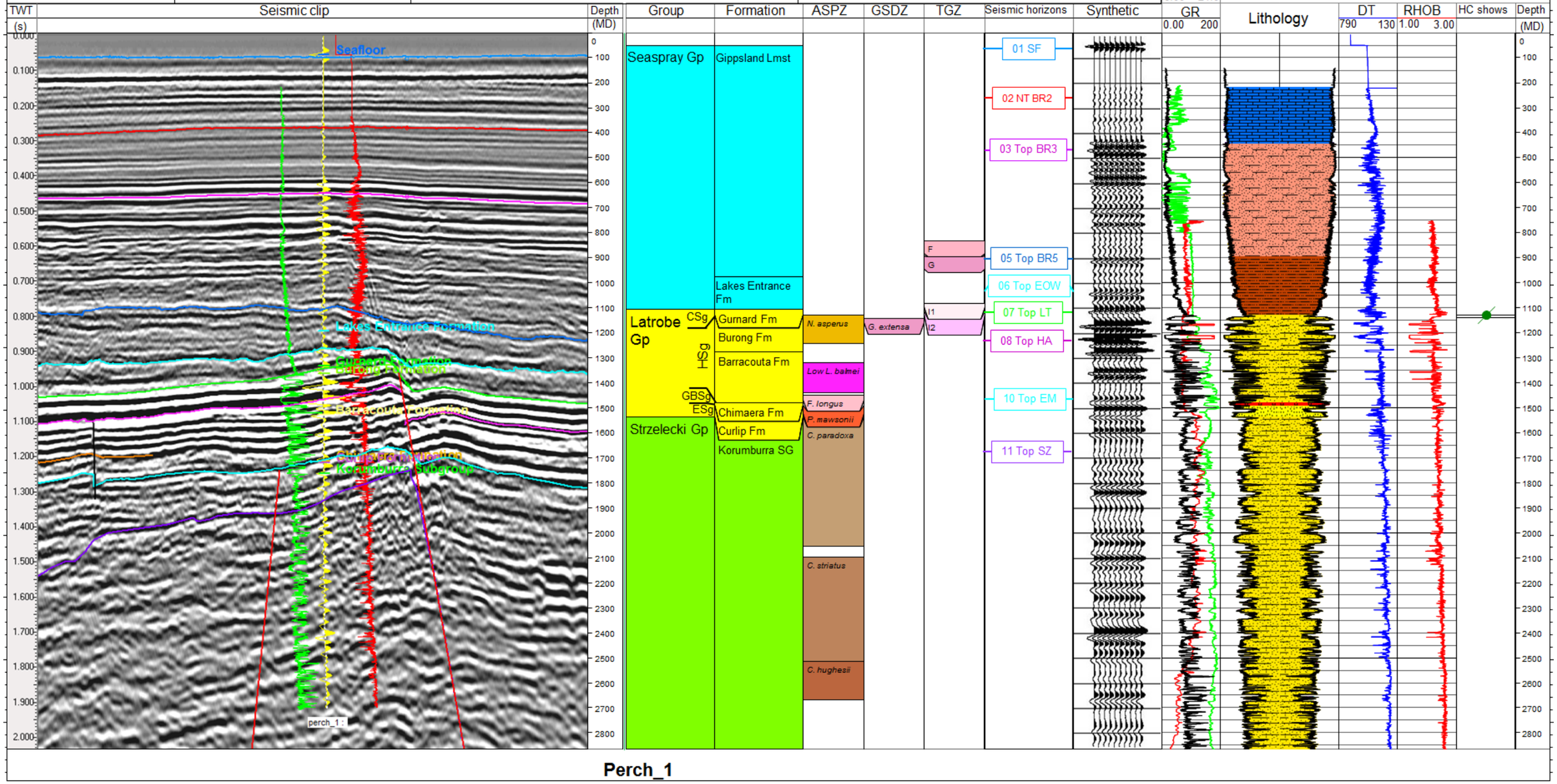
Seismic reference for GDPI10 Survey
GDPI10-007

Play Type:
Structural culmination along a major NE-SW trending faulted anticline; objective was Top Latrobe Complex sands

Reference

ESSO E&P Aus Inc Well Completion Report, W515
GA Petroleum Wells Database, Perch-1 Well Report

Logs
Gamma Ray, Caliper, SP, DT, RHOB



Perch_1

Figure A2.18. Perch-1 Well Composite. The TWT scale for the horizon panel is not equivalent to the depth scale in the remaining panels.

Well: Pike-1
KB: 9.7m
Water depth: 74m MSL
TD: 2134m
Status: P&A
Shows: Dry

Operator: ESSO Australia Ltd
Latitude: 38° 46' 29.054" S
Longitude: 147° 57' 00.726" E
Location: 16km NW Moray-1; 19km SSW Gurnard-1
Spud date: 16/07/1973
Completion date: 25/07/1973

Seismic reference for GDPI10 Survey
GDPI10-903 and GDPI10-028

Play Type:
Stratigraphic trap within Eocene sequences in Latrobe Group

Reference

ESSO Australia Ltd Well Completion Report, W671
GA Petroleum Wells Database, Pike-1 Well Report

Logs
Gamma Ray, Caliper, SP, DT, RHOB

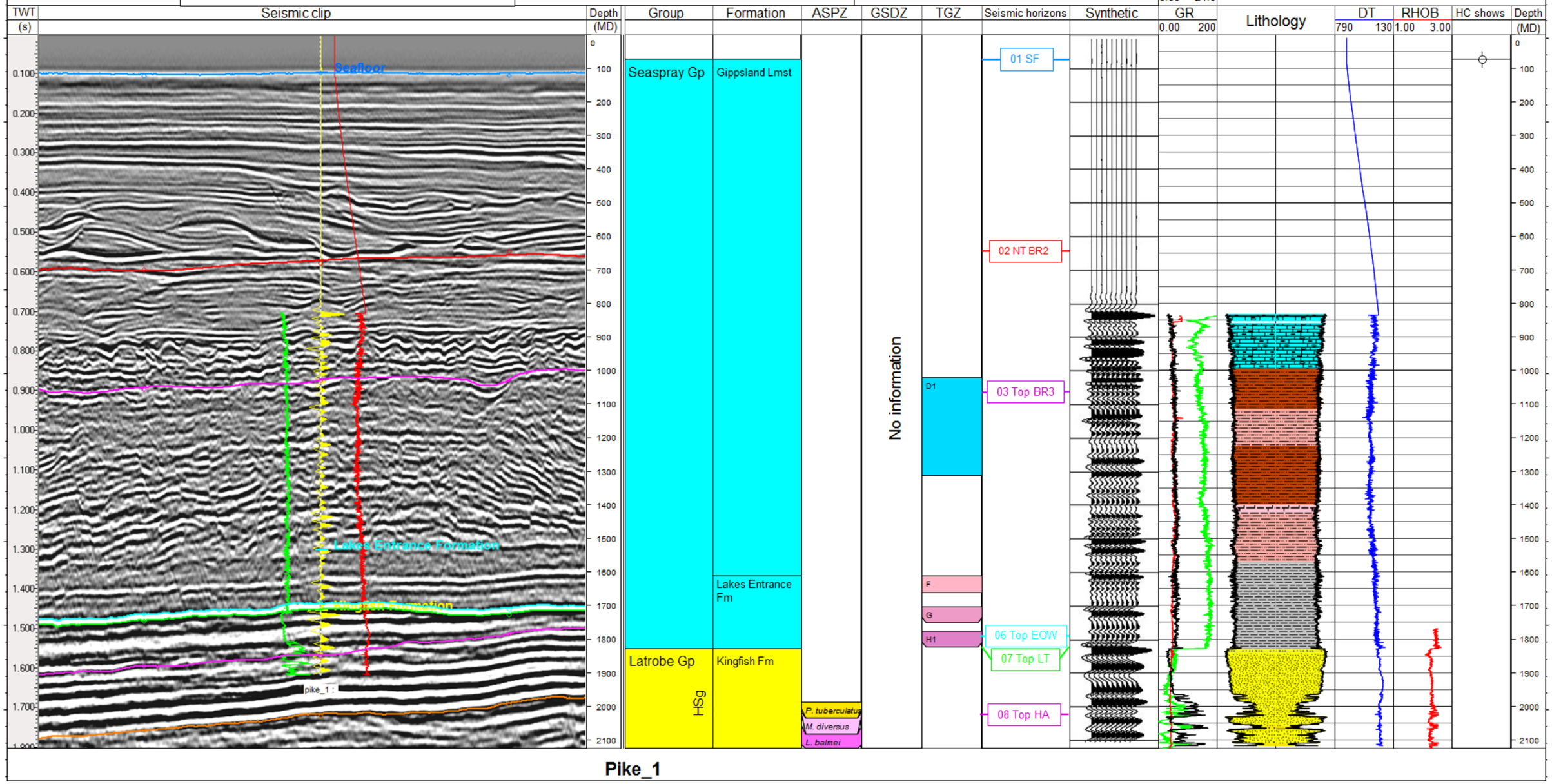


Figure A.2.19. Pike-1 Well Composite. The TWT scale for the horizon panel is not equivalent to the depth scale in the remaining panels.

Well: Pisces-1
KB: 22m
Water depth: 122m MSL
TD: 2580m
Status: P&A
Shows: Dry

Operator: Union Texas Australia, Inc
Latitude: 39° 03' 35.919" S
Longitude: 148° 30' 42.474" E
Location:
Spud date: 15/04/1982
Completion date: 11/05/1982

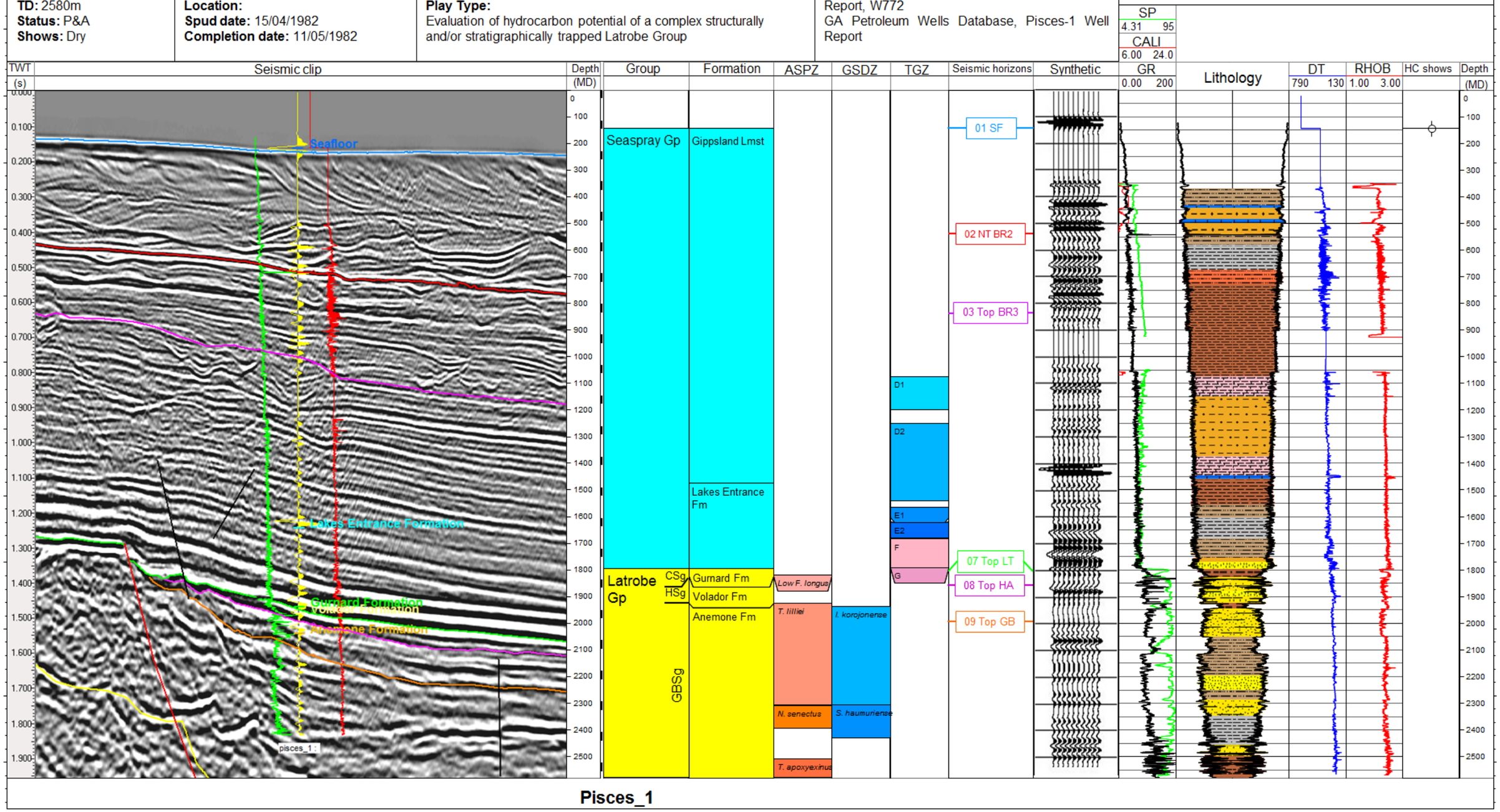
Seismic reference for GDPI10 Survey
GDPI10-901 and GDPI10-051

Play Type:
Evaluation of hydrocarbon potential of a complex structurally and/or stratigraphically trapped Latrobe Group

Reference

Union Texas Australia, Inc Well Completion Report, W772
GA Petroleum Wells Database, Pisces-1 Well Report

Logs
Gamma Ray, Caliper, SP, DT, RHOB



Pisces_1

Figure A2.20. Pisces-1 Well Composite. The TWT scale for the horizon panel is not equivalent to the depth scale in the remaining panels.

Well: Sailfish-1
KB: 10m
Water depth: 85m MSL
TD: 1422m
Status: P&A
Shows: Dry

Operator: NSW Oil and Gas Co
Latitude: 39° 27' 24.0" S
Longitude: 148° 37' 54.4" E
Location: Offshore Tasmania, 64km NE of Flinders Island
Spud date: 12/10/1971
Completion date: 05/11/1971

Seismic reference for GDPI10 Survey
GDPI10-907 and GDPI10-066

Play Type:
Evaluation of an interpreted biohermal reef in sedimentary section between 1219-1676 MSL.

Reference

NSW Oil and Gas Co Well Completion Report, OR_0344B
GA Petroleum Wells Database, Sailfish-1 Well Report

Logs
Gamma Ray, Caliper, SP, DT

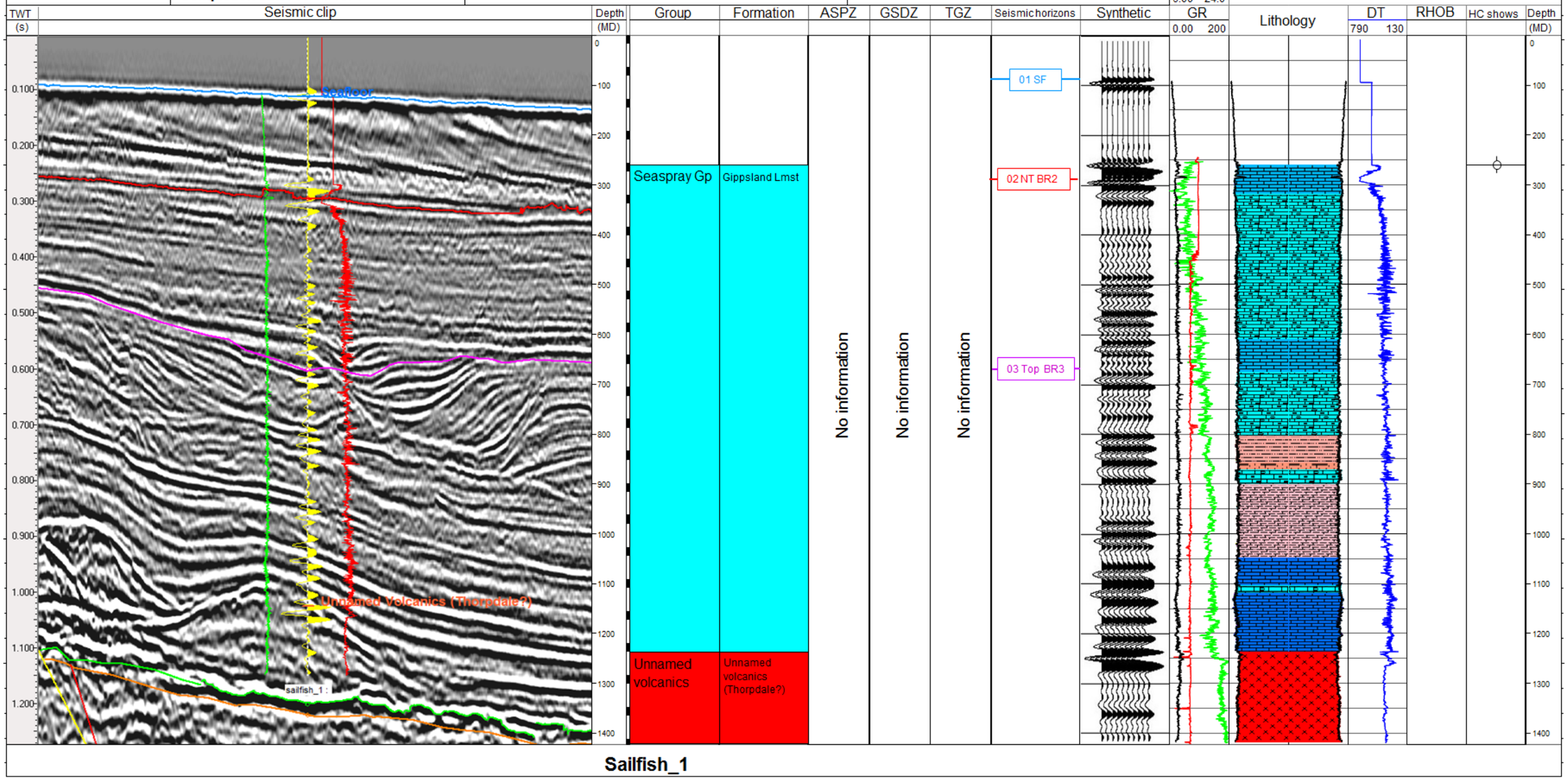


Figure A2.21. Sailfish-1 Well Composite. The TWT scale for the horizon panel is not equivalent to the depth scale in the remaining panels.

Well: Tarra-1
KB: 47.3m
Water depth: 62.5m MSL
TD: 2905m
Status: P&A
Shows: Minor gas

Operator: Aus Aquitaine Pet Pty Ltd
Latitude: 38° 38' 37.15" S
Longitude: 147° 42' 08.20" E
Location: 4km S Omeo-1 gas discovery
Spud date: 04/03/1983
Completion date: 21/04/1983

Seismic reference for GDPI10 Survey
GDPI10-905 and GDPI10-018

Play Type:
Evaluation of reservoir potential of the southern margin Strzelecki sediments.

Reference

Aus Aquitaine Pet Pty Ltd Well Completion Report, W806
GA Petroleum Wells Database, Tarra-1 Well Report

Logs
Gamma Ray, Caliper, SP, DT, RHOB

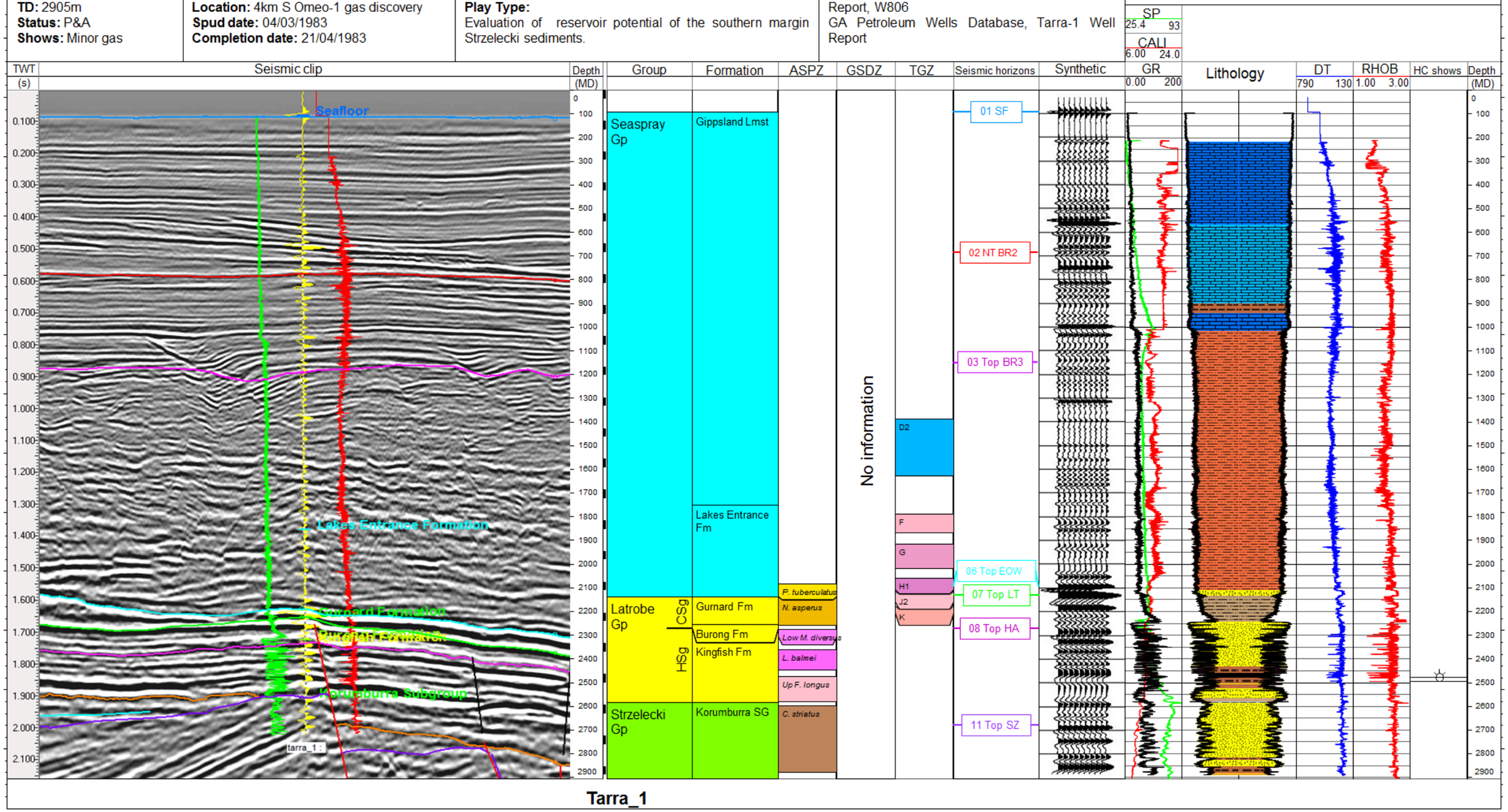


Figure A2.22. Tarra-1 Well Composite. The TWT scale for the horizon panel is not equivalent to the depth scale in the remaining panels.

Well: Tarra-1 **KB:** 47.3m **Water depth:** 62.5m MSL **TD:** 2905m **Status:** P&A **Shows:** Minor gas	**Operator:** Aus Aquitaine Pet Pty Ltd **Latitude:** 38° 38' 37.15" S **Longitude:** 147° 42' 08.20" E **Location:** 4km S Omeo-1 gas discovery **Spud date:** 04/03/1983 **Completion date:** 21/04/1983	**Seismic reference for GDPI10 Survey** GDPI10-905 and GDPI10-018 **Play Type:** Evaluation of reservoir potential of the southern margin Strzelecki sediments.	**Reference** Aus Aquitaine Pet Pty Ltd Well Completion Report, W806 GA Petroleum Wells Database, Tarra-1 Well Report	**Logs** Gamma Ray, SP, Lithology, RHOB

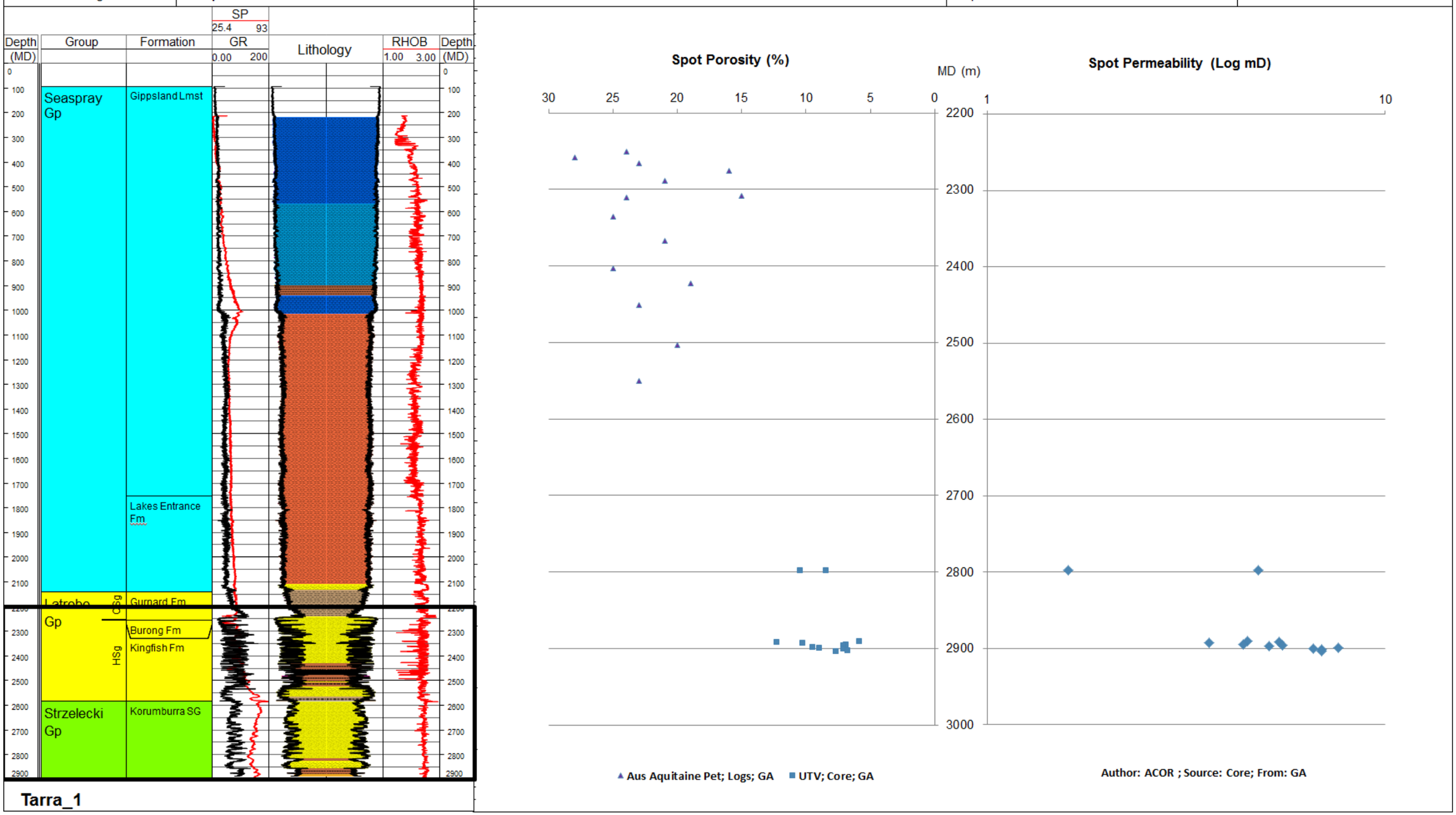


Figure A2.23. Tarra-1 Porosity-Permeability Sheet. The black box overlaying the stratigraphic columns shows the interval where porosity/permeability measurements are available.

Well: Tommyruff-1
KB: 21m
Water depth: 33m MSL
TD: 1550m
Status: P&A
Shows: Dry

Operator: BHP Petroleum Pty Ltd
Latitude: 38° 36' 47.4" S
Longitude: 147° 08' 33.7" E
Location: 9km NW Kyarra-1A; 16km SW Perch oil field
Spud date: 20/05/1990
Completion date: 29/05/1990

Seismic reference for GDPI10 Survey
GDPI10-912 and GDPI10-003

Play Type:
Evaluation of the Top Latrobe 'Coarse Clastics' and lower *N. Asperus* sands

Reference

BHP Petroleum Pty Ltd Well Completion Report, PE906426
GA Petroleum Wells Database, Tommyruff-1 Well Report

Logs
Gamma Ray, Caliper, SP, DT, RHOB

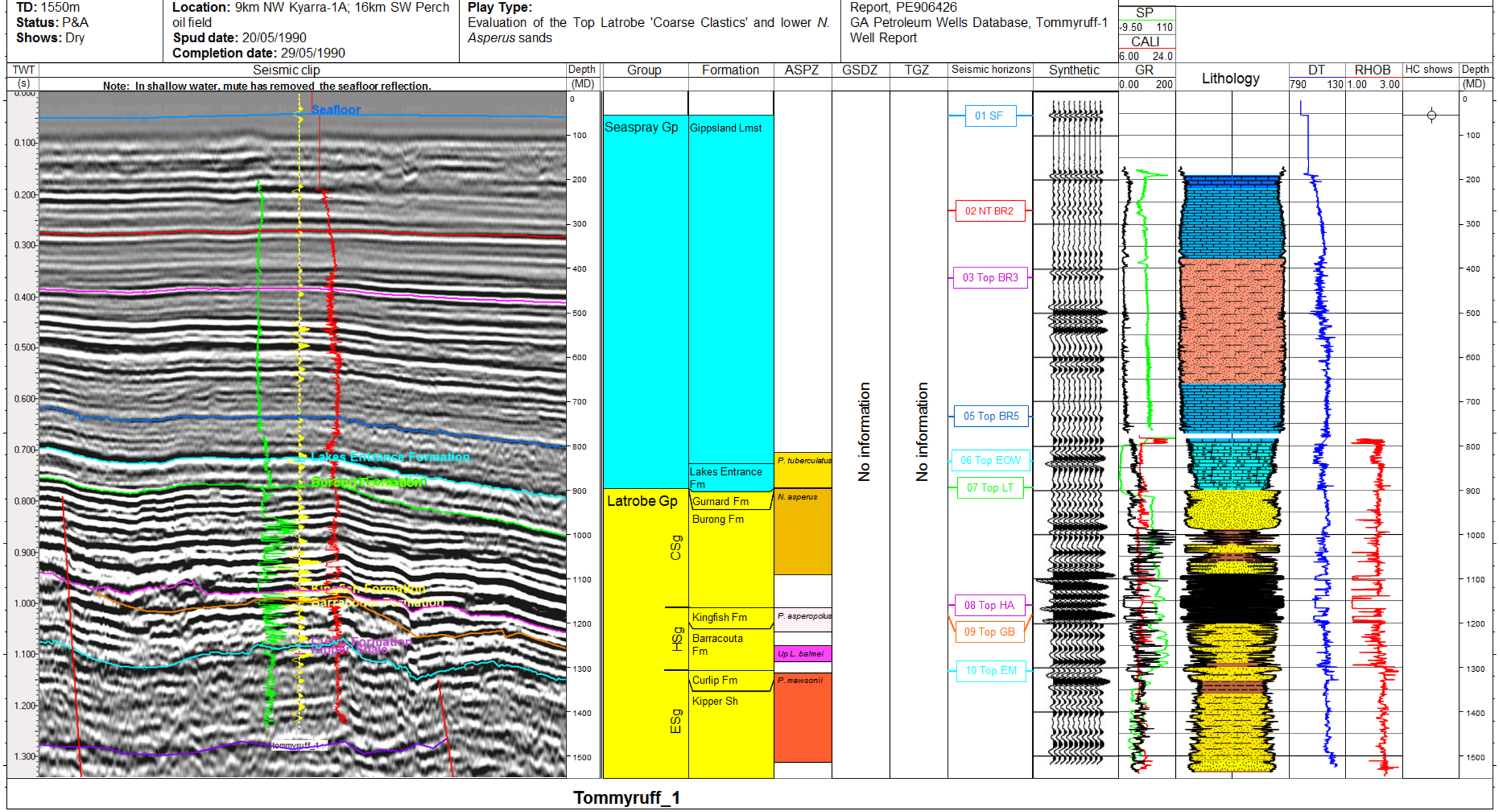


Figure A2.24. Tommyruff-1 Well Composite. The TWT scale for the horizon panel is not equivalent to the depth scale in the remaining panels.

Well: Wasabi-1
KB: 39m above AHD
Water depth: 27m below AHD
TD: 2313m MDRT
Status: P&A
Shows: Dry

Operator: Apache Northwest Pty Ltd
Latitude: 38° 29' 18.157" S
Longitude: 147° 15' 49.147" E
Location:
Spud date: 14/02/2008
Completion date: 06/03/2008

Seismic reference for GDPI10 Survey
GDPI10-002

Play Type:
Evaluation of Latrobe, Intra-Latrobe, *L. balmei* aged sands and Golden Beach formations [DIRECTIONAL EXPLORATION WELL]

Reference

Apache Northwest Pty Ltd Well Completion Report

Logs
Gamma Ray, DCVE, SP, DT, RHOB

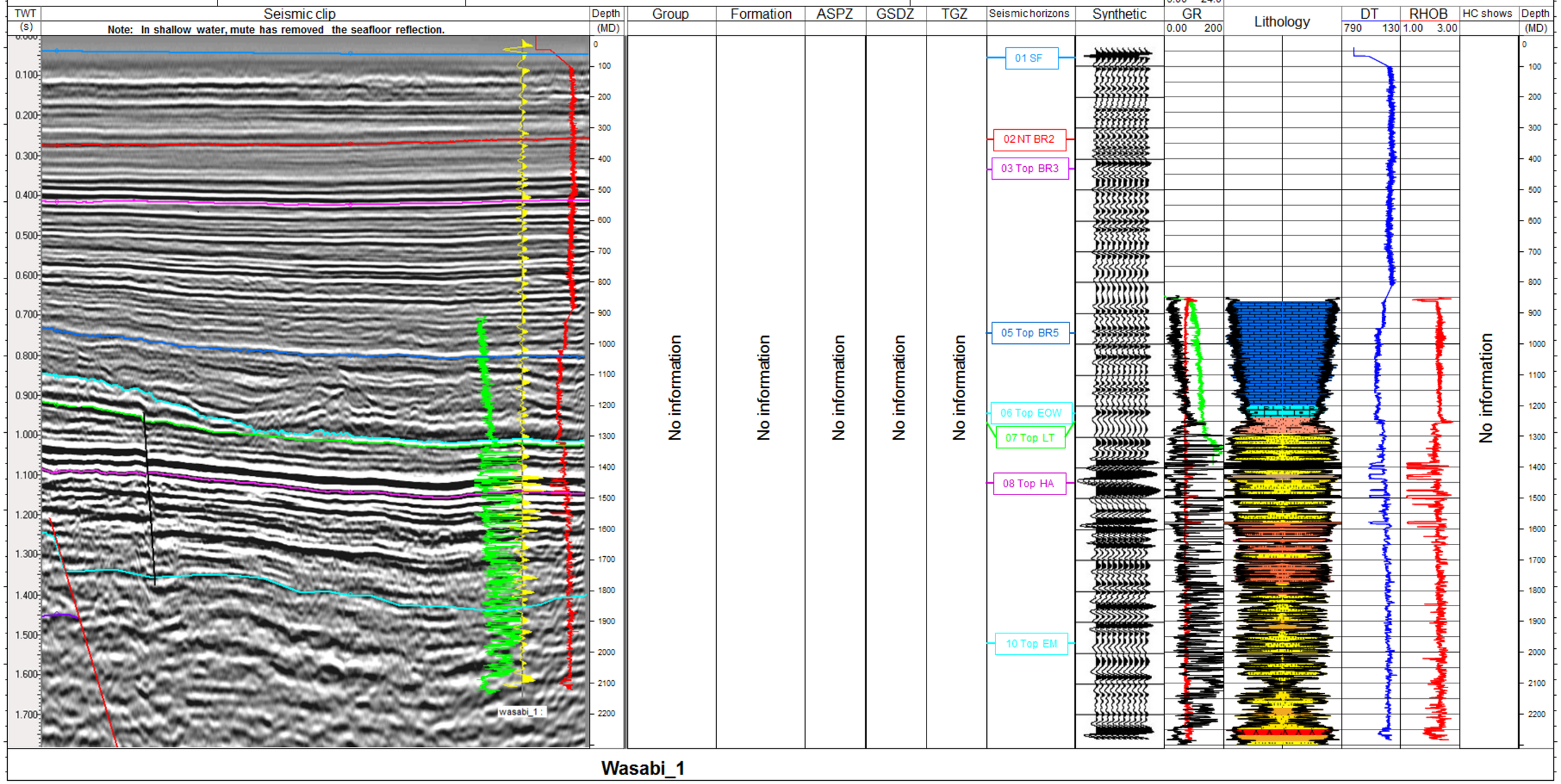


Figure A2.25. Wasabi-1 Well Composite. The TWT scale for the horizon panel is not equivalent to the depth scale in the remaining panels.

Well: Wyrallah-1
KB: 21m
Water depth: 32m MSL
TD: 1160m
Status: P&A
Shows: Dry

Operator: Aus Aquitaine Pet Pty Ltd
Latitude: 38° 40' 38.8" S
Longitude: 147° 05' 6.33" E
Location: 9km W Kyarra-1; 20km SW Perch-1
Spud date: 16/04/1984
Completion date: 27/04/1984

Seismic reference for GDPI10 Survey
GDPI10-914 and GDPI10-004

Play Type:
Testing a structural trap against a high angle reverse fault

Reference

Aus Aquitaine Pet Pty Ltd Well Completion Report, W864
GA Petroleum Wells Database, Wyrallah-1 Well Report

Logs
Gamma Ray, Caliper, SP, DT, RHOB

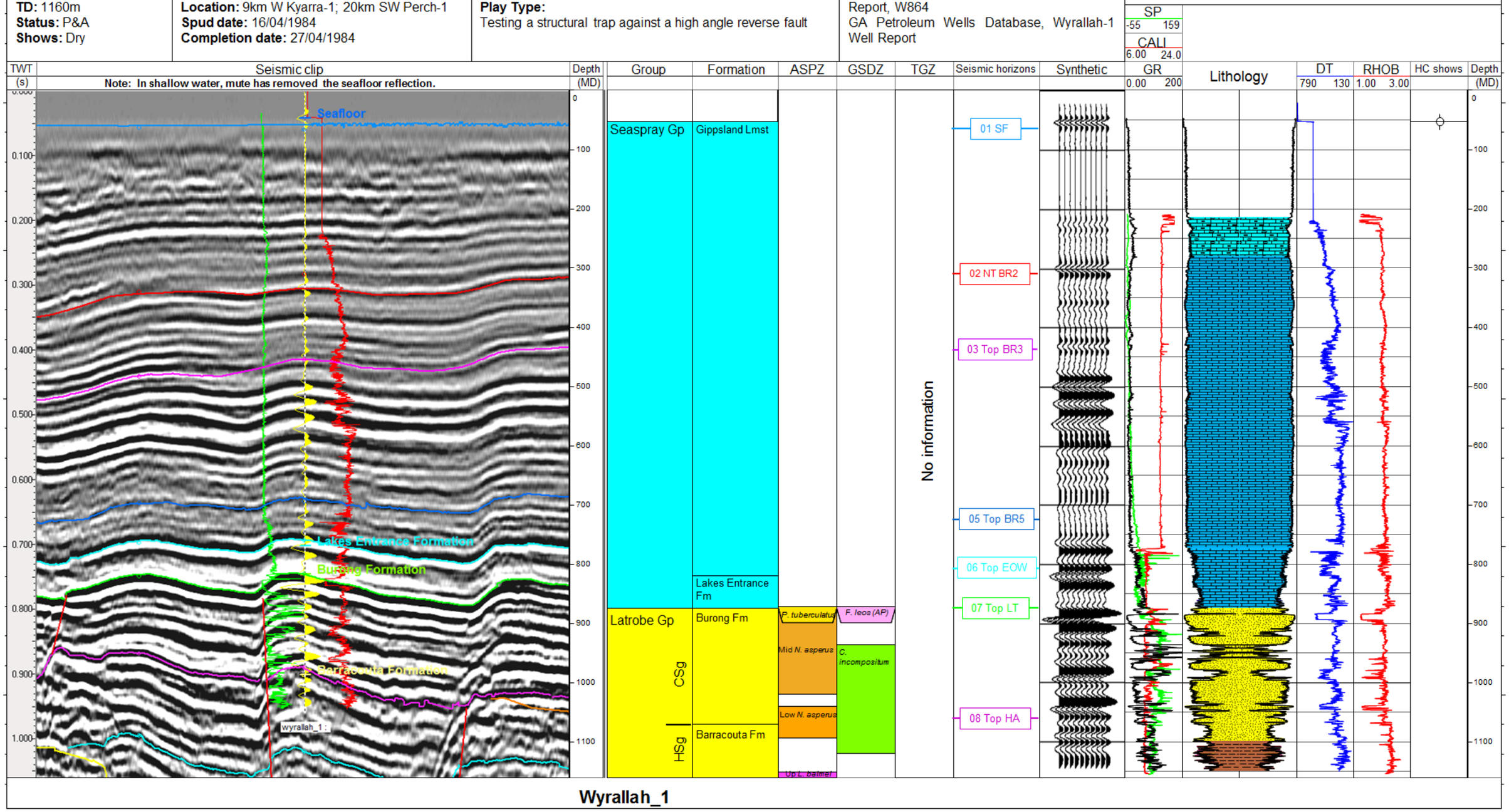


Figure A2.26. Wyrallah-1 Well Composite. The TWT scale for the horizon panel is not equivalent to the depth scale in the remaining panels.

Appendix 3
Formation Tops for 20 Key Wells

Group	Subgroup	Formation	Partridge, 2006	Amberjack-1			Bluebone-1 (#)					Bullseye-1 (*)						Devilfish-1 (*)						Groper-1 (#)					
				TWT (s)	Depth (mKB)	Depth (mSS)	TWT (s)	**TWT (s)**	Depth (mKB)	**Depth (mKB)**	Depth (mSS)	**Depth (mSS)**	TWT (s)	**TWT (s)**	Depth (mKB)	**Depth (mKB)**	Depth (mSS)	**Depth (mSS)**	TWT (s)	**TWT (s)**	Depth (mKB)	**Depth (mKB)**	Depth (mSS)	**Depth (mSS)**	TWT (s)	**TWT (s)**	Depth (mKB)	**Depth (mKB)**	Depth (mSS)	**Depth (mSS)**
Seaspray		Gippsland Formation	**Bassian Rise 1**	0.049	58	37	0.051	**0.064**	58.16	**58**	48.16	**48**	0.076		68		58		0.097		102.4		74.4		0.076	**0.076**	67	**67**	57	**57**
			Bassian Rise 2					**0.216**		**200**		**190**														**0.364**		**364**		**354**
			Bassian Rise 3					**0.296**		**282**		**272**														**0.479**		**508**		**498**
			Bassian Rise 4					**0.352**		**345**		**335**														**0.561**		**632**		**622**
			Bassian Rise 5					**0.404**		**416**		**406**														**0.641**		**744**		**734**
		Lakes Entrance Formation	**Upper Early Oligocene Wedge**	0.995	1213	1192	0.446	**0.445**	462.4	**461.8**	452.4	**451.8**	1.259	**1.480**	1697	**2048**	1687	**2038**	1.208	**1.323**	1461	**1637**	1433	**1609**	0.699	**0.699**	808	**807.7**	798	**797.7**
			Lower Early Oligocene Wedge					**0.446**		**495.3**		**485.3**														**0.767**		**893**		**883**
Latrobe	Cobia	Gurnard Formation		1.032	1259	1238							1.496		2072		2062								0.803		931		921	
		Burong Formation		1.039	1268	1247	0.499		522.4		512.4		1.547		2150		2140		1.328		1645		1617		0.822		952		942	
		Turrum Formation																												
	Halibut	Currajong Volcanics																												
		Flounder Formation																												
		Mackerel Formation																												
		Kingfish Formation		1.189	1477	1456							1.587		2230		2220		1.428		1795		1767							
		Barracouta Formation		1.245	1567	1546																								
		Kate Shale																	1.507		1964		1936							
		Volador Formation																	1.515		1975		1947							
	Golden Beach	Chimaera Formation																												
		Anemone Formation																												
	Emperor	Curlip Formation																												
		Kipper Shale																												
		Admiral Formation																												
		Kersop Arkose																												
Strzelecki	Korumburra																													
BASEMENT							0.556		591.3		581.3														0.876		1018		1008	
Volcanics of Uncertain Stratigraphic Age																														

(#) Wells that have formally-defined formation picks for Bassian Rise (BR) 1-5 and the Early Oligocene Wedge (EOW) (Partridge 2006)

(*) Wells that have only the EOW informally picked and interpreted via logs, and no information about BR 1-5 (Partridge 2006)

(**) Melville-1 EOW informally picked and interpreted via logs in Partridge 2002, from Melville-1 WCR Vol. 2

Wells that show two (2) sets of TWT (s), Depth (mKB) and Depth (mSS) are those that have formally defined or interpreted the BR 1-5 and/or the EOW. All other wells showing only one set of TWT (s), Depth (mKB) and Depth (mSS) only intersected established formations in the Gippsland Basin

Bolded values correspond to BR 1-5 and EOW data of Partridge 2006. Unbolded values correspond to established formations of the Gippsland Basin

Grey cells denote formations not intersected along borehole

Table A3.1. Formation tops picks at key wells

Group	Subgroup	Formation	Partridge, 2006	Groper-2 (*)						Kyarra-1A (*)						Melville-1 (**)						Moray-1 (*)					
				TWT (s)	**TWT (s)**	Depth (mKB)	**Depth (mKB)**	Depth (mSS)	**Depth (mSS)**	TWT (s)	**TWT (s)**	Depth (mKB)	**Depth (mKB)**	Depth (mSS)	**Depth (mSS)**	TWT (s)	**TWT (s)**	Depth (mKB)	**Depth (mKB)**	Depth (mSS)	**Depth (mSS)**	TWT (s)	**TWT (s)**	Depth (mKB)	**Depth (mKB)**	Depth (mSS)	**Depth (mSS)**
Seaspray		Gippsland Formation	**Bassian Rise 1**																								
			Bassian Rise 2																								
			Bassian Rise 3	0.078		69		59		0.057		74		43		0.099		100		75		0.099		85.5		75.5	
			Bassian Rise 4																								
			Bassian Rise 5																								
		Lakes Entrance Formation	**Upper Early Oligocene Wedge**	0.600	**0.593**	687	**680**	677	**670**	0.784	**0.850**	919	**995.5**	888	**964.5**	1.192	**1.678**	1525	**2214**	1500	**2189**	1.194	**1.336**	1422.5	**1625**	1412.5	**1615**
			Lower Early Oligocene Wedge																								
Latrobe	Cobia	Gurnard Formation		0.659		760		750		0.866		1013		982		1.688		2232		2207		1.345		1640		1630	
		Burong Formation		0.664		765		755		0.878		1028		997													
		Turrum Formation																									
	Halibut	Currajong Volcanics																									
		Flounder Formation																									
		Mackerel Formation																				1.367		1678		1668	
		Kingfish Formation														1.718		2286		2261							
		Barracouta Formation								0.987		1173		1142													
		Kate Shale														1.904		2626		2601		1.444		1813		1803	
		Volador Formation														1.921		2658		2633		1.458		1837		1827	
	Golden Beach	Chimaera Formation (includes "Campanian Volcanics" and "Transition Beds" In Melville-1)								1.017		1216		1185		2.021		2847		2822							
		Anemone Formation																									
	Emperor	Curlip Formation														2.106		3022		2997							
		Kipper Shale																									
		Admiral Formation																									
		Kersop Arkose																				1.497		1905		1895	
Strzelecki	Korumburra									1.042		1251		1220													
BASEMENT				0.723		842		832																			
Melville-1 TD Volcanics of Uncertain Stratigraphic Age																2.273		3330		3305							

Melville-1 TD Volcanics Campanian? Intrusives?
(Partridge 2002, from Melville-1 WCR V2)

(#) Wells that have formally-defined formation picks for Bassian Rise (BR) 1-5 and the Early Oligocene Wedge (EOW) (Partridge 2006)

(*) Wells that have only the EOW informally picked and interpreted via logs, and no information about BR 1-5 (Partridge 2006)

(**) Melville-1 EOW informally picked and interpreted via logs in Partridge 2002, from Melville-1 WCR Vol. 2

Wells that show two (2) sets of TWT (s), Depth (mKB) and Depth (mSS) are those that have formally defined or interpreted the BR 1-5 and/or the EOW. All other wells showing only one set of TWT (s), Depth (mKB) and Depth (mSS) only intersected established formations in the Gippsland Basin

Bolded values correspond to BR 1-5 and EOW data of Partridge 2006. Unbolded values correspond to established formations of the Gippsland Basin

Grey cells denote formations not intersected along borehole

Table A3.2. Formation tops picks at key wells

Group	Subgroup	Formation	Partridge, 2006	Mudskipper-1 (*)						Mullet-1 (#)						Omeo-2A (*)						Perch-1			Pike-1 (*)					
				TWT (s)	**TWT (s)**	Depth (mKB)	**Depth (mKB)**	Depth (mSS)	**Depth (mSS)**	TWT (s)	**TWT (s)**	Depth (mKB)	**Depth (mKB)**	Depth (mSS)	**Depth (mSS)**	TWT (s)	**TWT (s)**	Depth (mKB)	**Depth (mKB)**	Depth (mSS)	**Depth (mSS)**	TWT (s)	Depth (mKB)	Depth (mSS)	TWT (s)	**TWT (s)**	Depth (mKB)	**Depth (mKB)**	Depth (mSS)	**Depth (mSS)**
Seaspray		Gippsland Formation	**Bassian Rise 1**								**0.070**		**63**		**53**														
			Bassian Rise 2								**0.275**		**260**		**250**														
			Bassian Rise 3	0.097		101		74		0.070	**0.382**	63	**383**	53	**373**	0.081		84		61		0.056	52	42	0.097		84		74	
			Bassian Rise 4								**0.462**		**474**		**464**														
			Bassian Rise 5								**0.528**		**560**		**550**														
		Lakes Entrance Formation	**Upper Early Oligocene Wedge**	1.046	**1.215**	1220	**1448**	1193	**1421**	0.583	**0.583**	620	**619.3**	610	**609.3**	1.696	**1.680**	2182	**2181**	2159	**2158**	0.842	975	965	1.302	**1.450**	1611	**1810**	1601	**1601**
			Lower Early Oligocene Wedge								**0.631**		**672**		**662**														
Latrobe	Cobia	Gurnard Formation		1.230		1475		1448		0.646		690		680		1.733		2246		2223		0.942	1106	1096						
		Burong Formation								0.651		698		688								0.963	1129	1119						
		Turrum Formation																												
	Halibut	Currajong Volcanics																												
		Flounder Formation																												
		Mackerel Formation		1.249		1504.5		1477.5																						
		Kingfish Formation														1.791		2347		2324					1.455		1818		1808	
		Barracouta Formation														1.984		2701		2678		1.081	1277	1267						
		Kate Shale																												
		Volador Formation																												
	Golden Beach	Chimaera Formation														2.141		2964		2941		1.211	1480	1470						
		Anemone Formation																												
	Emperor	Curlip Formation																				1.216	1490	1480						
		Kipper Shale																												
		Admiral Formation																												
		Kersop Arkose																												
Strzelecki	Korumburra																					1.248	1538	1528						
BASEMENT				1.310		1612		1585		0.679		738		728																
Volcanics of Uncertain Stratigraphic Age																														

(#) Wells that have formally-defined formation picks for Bassian Rise (BR) 1-5 and the Early Oligocene Wedge (EOW) (Partridge 2006)

(*) Wells that have only the EOW informally picked and interpreted via logs, and no information about BR 1-5 (Partridge 2006)

(**) Melville-1 EOW informally picked and interpreted via logs in Partridge 2002, from Melville-1 WCR Vol. 2

Wells that show two (2) sets of TWT (s), Depth (mKB) and Depth (mSS) are those that have formally defined or interpreted the BR 1-5 and/or the EOW. All other wells showing only one set of TWT (s), Depth (mKB) and Depth (mSS) only intersected established formations in the Gippsland Basin

Bolded values correspond to BR 1-5 and EOW data of Partridge 2006. Unbolded values correspond to established formations of the Gippsland Basin

Grey cells denote formations not intersected along borehole

Table A3.3. Formation tops picks at key wells

Group	Subgroup	Formation	Partridge, 2006	Pisces-1			Sailfish-1			Tarra-1 (*)						Tommyruff-1			Wasabi-1			Wyrallah-1 (*)					
				TWT (s)	Depth (mKB)	Depth (mSS)	TWT (s)	Depth (mKB)	Depth (mSS)	TWT (s)	**TWT (s)**	Depth (mKB)	**Depth (mKB)**	Depth (mSS)	**Depth (mSS)**	TWT (s)	Depth (mKB)	Depth (mSS)	TWT (s)	Depth (mKB)	Depth (mSS)	TWT (s)	**TWT (s)**	Depth (mKB)	**Depth (mKB)**	Depth (mSS)	**Depth (mSS)**
Seaspray		Gippsland Formation	**Bassian Rise 1**	0.160	144	122	0.269	260	250	0.082		93		63		0.043	54	33	**No information**			0.042		53		32	
			Bassian Rise 2																								
			Bassian Rise 3																								
			Bassian Rise 4																								
			Bassian Rise 5																								
		Lakes Entrance Formation	**Upper Early Oligocene Wedge**	1.257	1475	1453				1.379	**1.637**	1752	**2110**	1722	**2080**	0.722	840	819				0.702	**0.717**	820	**840**	799	**819**
			Lower Early Oligocene Wedge																				**0.746**		**875**		**854**
Latrobe	Cobia	Gurnard Formation		1.482	1796	1774				1.654		2140		2110		0.769	897	876									
		Burong Formation								1.725		2256		2226		0.773	901	880				0.745		874		853	
		Turrum Formation																									
	Halibut	Currajong Volcanics																									
		Flounder Formation																									
		Mackerel Formation																									
		Kingfish Formation								1.734		2272		2242		0.981	1166	1145									
		Barracouta Formation														1.008	1198	1177				0.901		1071		1050	
		Kate Shale																									
		Volador Formation		1.508	1826	1804																					
	Golden Beach	Chimaera Formation																									
		Anemone Formation		1.585	1925	1903																					
	Emperor	Curlip Formation														1.084	1307	1286									
		Kipper Shale														1.099	1328	1307									
		Admiral Formation																									
		Kersop Arkose																									
Strzelecki	Korumburra									1.908		2583		2553													
BASEMENT																											
Volcanics of Uncertain Stratigraphic Age							1.025	1238	1228																		

Sailfish-1 TD Volcanics of unknown age; Gipps Fm picked from first seafloor returns (Sailfish-1 WCR)

(#) Wells that have formally-defined formation picks for Bassian Rise (BR) 1-5 and the Early Oligocene Wedge (EOW) (Partridge 2006)

(*) Wells that have only the EOW informally picked and interpreted via logs, and no information about BR 1-5 (Partridge 2006)

(**) Melville-1 EOW informally picked and interpreted via logs in Partridge 2002, from Melville-1 WCR Vol. 2

Wells that show two (2) sets of TWT (s), Depth (mKB) and Depth (mSS) are those that have formally defined or interpreted the BR 1-5 and/or the EOW. All other wells showing only one set of TWT (s), Depth (mKB) and Depth (mSS) only intersected established formations in the Gippsland Basin

Bolded values correspond to BR 1-5 and EOW data of Partridge 2006. Unbolded values correspond to established formations of the Gippsland Basin

Grey cells denote formations not intersected along borehole

Table A3.4. Formation tops picks at key wells

Appendix 4
Data Spreadsheets

HORIZON	Amberjack-1				Bluebone-1				Bullseye-1				Devilfish-1				Groper-1				Groper-2				Kyarra-1A				Melville-1				Moray-1				Mudskipper-1			
	TWT (s)	Depth (mKB)	Depth (mSS)	Phase	TWT (s)	Depth (mKB)	Depth (mSS)	Phase	TWT (s)	Depth (mKB)	Depth (mSS)	Phase	TWT (s)	Depth (mKB)	Depth (mSS)	Phase	TWT (s)	Depth (mKB)	Depth (mSS)	Phase	TWT (s)	Depth (mKB)	Depth (mSS)	Phase	TWT (s)	Depth (mKB)	Depth (mSS)	Phase	TWT (s)	Depth (mKB)	Depth (mSS)	Phase	TWT (s)	Depth (mKB)	Depth (mSS)	Phase	TWT (s)	Depth (mKB)	Depth (mSS)	Phase
FT_01_Seafloor	0.049	58	-37	trough	0.068	62	-52	trough	0.08	71	-61	trough	0.105	111	-83	trough	0.082	73	-63	trough	0.08	71	-62	trough	0.063	79	-48	trough	0.099	100	-75	trough	0.102	89	-79	trough	0.098	102	-75	trough
FT_02_NT_BR2	0.248	246	-225	peak	0.175	156	-146	peak	0.553	604	-594	peak	0.506	559	-530	peak	0.343	340	-331	peak	0.299	286	-276	peak	0.324	335	-304	peak	0.736	931	-906	peak	0.551	602	-592		0.528	600	-573	peak
FT_03_Top_BR3	0.432	460	-439	trough	0.301	287	-278	trough	0.899	1130	-1120	trough	0.759	911	-883	trough	0.477	505	-495	trough	0.405	413	-404	trough	0.466	512	-481	trough	0.991	1264	-1239	trough	0.763	895	-885	trough	0.665	775	-748	trough
FT_04_Top_BR4					0.348	340	-330	trough									0.564	636	-627	trough	0.5	548	-538	trough																
FT_05_Top_BR5	0.908	1111	-1090	peak	0.402	413	-403	peak									0.642	744	-735	peak	0.543	611	-602	peak	0.689	813	-783	peak												
FT_06_Top_EOW	1.016	1239	-1218	zero	0.441	458	-449	zero	1.383	1906	-1896	zero	1.305	1610	-1582	zero	0.694	802	-793	zero	0.593	679	-669	zero	0.779	914	-883	zero	1.675	2209	-2184	zero	1.331	1618	-1608	zero	1.221	1458	-1431	zero
FT_07_Top_Latrobe_Gr	1.036	1264	-1243	zero	0.499	522	-512	peak	1.495	2071	-2061	trough	1.324	1639	-1611	trough	0.802	929	-919	zero	0.66	761	-751	zero	0.86	1006	-975	zero	1.689	2235	-2210	zero	1.342	1635	-1625	zero	1.236	1485	-1458	zero
FT_08_Top_Halibut_SG	1.153	1421	-1400	zero					1.589	2234	-2224	peak	1.419	1778	-1748	peak									0.984	1169	-1139	zero	1.733	2313	-2288	peak	1.362	1671	-1661	zero	1.251	1509	-1482	peak
FT_09_Top_Golden_Beach_SG													1.553	2044	-2015	peak									1.017	1216	-1185	peak	2.022	2848	-2823	peak								
FT_10_Top_Emperor_SG																													2.107	3023	-2998	peak	1.501	1912	-1902	peak				
FT_11_Top_Strzelecki_Gr																									1.05	1261	-1231	peak												
FT_12_Top_Pre-Strzelecki_Gr																					0.722	842	-832	trough																
FT_13_Top_Basement					0.559	595	-585	trough									0.873	1013	-1003	trough																	1.316	1623	-1596	trough

HORIZON	Mullet-1				Omeo-2A				Perch-1				Pike-1				Pisces-1				Sailfish-1				Tarra-1				Tommyruff-1				Wasabi-1				Wyrallah-1			
	TWT (s)	Depth (mKB)	Depth (mSS)	Phase	TWT (s)	Depth (mKB)	Depth (mSS)	Phase	TWT (s)	Depth (mKB)	Depth (mSS)	Phase	TWT (s)	Depth (mKB)	Depth (mSS)	Phase	TWT (s)	Depth (mKB)	Depth (mSS)	Phase	TWT (s)	Depth (mKB)	Depth (mSS)	Phase	TWT (s)	Depth (mKB)	Depth (mSS)	Phase	TWT (s)	Depth (mKB)	Depth (mSS)	Phase	TWT (s)	Depth (mKB)	Depth (mSS)	Phase	TWT (s)	Depth (mKB)	Depth (mSS)	Phase
FT_01_Seafloor	0.077	69	-59	trough	0.093	99	-76	trough	0.062	58	-49	trough	0.1	87	-77	trough	0.172	155	-133	trough	0.113	95	-85	trough	0.087	98	-68	trough	0.042	53	-32	trough	0.048	76	-37	peak	0.052	63	-42	peak
FT_02_NT_BR2	0.231	217	-207	peak	0.605	725	-703	peak	0.262	254	-244	peak	0.571	645	-636	peak	0.514	541	-519	peak	0.295	286	-276	peak	0.579	695	-685	peak	0.271	271	-250	peak	0.261	258	-219	peak	0.305	305	-284	peak
FT_03_Top_BR3	0.383	383	-373	trough	0.885	1146	-1124	trough	0.449	467	-458	trough	0.873	1067	-1057	peak	0.756	833	-811	trough	0.604	673	-663	trough	0.888	1145	-1113	trough	0.384	409	-388	trough	0.415	431	-392	trough	0.416	442	-421	trough
FT_04_Top_BR4	0.464	476	-466	trough																																				
FT_05_Top_BR5	0.524	556	-546	peak					0.78	901	-892	peak																	0.635	731	-710	peak	0.803	967	-928	peak	0.629	725	-704	peak
FT_06_Top_EOW	0.58	616	-606	zero	1.681	2184	-2161	zero	0.891	1033	-1024	zero	1.438	1793	-1783	zero									1.629	2098	-2068	zero	0.716	833	-812	zero	1.01	1229	-1190	zero	0.694	811	-790	zero
FT_07_Top_Latrobe_Gr	0.651	698	-688	zero	1.734	2268	-2245	zero	0.948	1112	-1103	zero	1.452	1814	-1804	zero	1.475	1806	-1784	zero					1.654	2140	-2108	peak	0.739	896	-876	peak	1.021	1249	-1210	zero	0.747	876	-855	zero
FT_08_Top_Halibut_SG					1.8	2385	-2362	peak	1.037	1217	-1208	zero	1.567	2025	-2016	peak	1.519	1860	-1838	zero					1.736	2276	-2245	peak	0.975	1160	-1139	zero	1.141	1477	-1438	peak	0.892	1059	-1038	peak
FT_09_Top_Golden_Beach_SG					2.13	2995	-2971	peak									1.586	1999	-1977	peak									0.997	1185	-1164	peak								
FT_10_Top_Emperor_SG					2.2	3150	-3125	peak	1.21	1478	-1469	peak																	1.083	1305	-1284	peak	1.433	1972	-1933	peak				
FT_11_Top_Strzelecki_Gr									1.325	1672	-1662	peak													1.907	2581	-2580	trough												
FT_12_Top_Pre-Strzelecki_Gr																																								
FT_13_Top_Basement	0.679	739	-729	trough																																				

Figure A4.1. Horizons

REQUESTED HORIZONS	INTERPRETED HORIZONS
Seafloor	FrOG Tech 01 Seafloor
	FrOG Tech 02 Near Top Bassian Rise Unit 2
Mid-Miocene Marker	FrOG Tech 03 Top Bassian Rise Unit 3
	FrOG Tech 04 Top Bassian Rise Unit 4
Top Lakes Entrance Formation	FrOG Tech 05 Top Bassian Rise Unit 5
	FrOG Tech 06 Top Early Oligocene Wedge
Top of the Latrobe Group	FrOG Tech 07 Top Latrobe Group
	FrOG Tech 08 Top Halibut Subgroup
Top Cretaceous (near K-T boundary)	
Top of Golden Beach Sub-group	FrOG Tech 09 Top Golden Beach Subgroup
	FrOG Tech 10 Top Emperor Subgroup
Top of the Strzelecki Group	FrOG Tech 11 Top Strzelecki Group
	FrOG Tech 12 Top Pre-Strzelecki Group
Basement	FrOG Tech 13 Top Basement

Figure A4.2. Requested horizons vs interpreted horizons (Table 1.1)

(#) Wells that have formally defined formation picks for Bassian Rise (BR) 1-5 and the Early Oligocene Wedge (EOW) (Partridge 2006)

(*) Wells that have only the EOW informally picked and interpreted via logs, and no information about BR 1-5 (Partridge 2006)

(**) Melville-1 EOW informally picked and interpreted via logs in Partridge 2002, from Melville-1 WCR Vol. 2

Wells that show two (2) sets of TWT (s), Depth (mKB) and Depth (mSS) have formally defined or interpreted the BR 1-5 and/or the EOW. All other wells showing only one set of TWT (s), Depth (mKB) and Depth (mSS) only intersect established formations in the Gippsland Basin

Bolded values correspond to BR 1-5 and EOW data of Partridge 2002, 2006. Unbolded values correspond to established formations of the Gippsland Basin

Grey cells denote formations not intersected along borehole

Group	Subgroup	Formation	**Partridge, 2006**	**Amberjack-1**			**Bluebone-1 (#)**						**Bullseye-1 (*)**						**Devilfish-1 (*)**						**Groper-1 (#)**					
				TWT	Depth	Depth	TWT	**TWT**	Depth	**Depth**	Depth	**Depth**	TWT	**TWT**	Depth	**Depth**	Depth	**Depth**	TWT	**TWT**	Depth	**Depth**	Depth	**Depth**	TWT	**TWT**	Depth	**Depth**	Depth	**Depth**
				(s)	(mKB)	(mSS)	(s)	**(s)**	(mKB)	**(mKB)**	(mSS)	**(mSS)**	(s)	**(s)**	(mKB)	**(mKB)**	(mSS)	**(mSS)**	(s)	**(s)**	(mKB)	**(mKB)**	(mSS)	**(mSS)**	(s)	**(s)**	(mKB)	**(mKB)**	(mSS)	**(mSS)**
Seaspray		Gippsland Formation	**Bassian Rise 1**	0.049	58	37	0.051	**0.064**	58.16	**58**	48.16	**48**	0.076		68		58		0.097		102.4		74.4		0.076	**0.076**	67	**67**	57	**57**
			Bassian Rise 2					**0.216**		**200**		**190**														**0.364**		**364**		**354**
			Bassian Rise 3					**0.296**		**282**		**272**														**0.479**		**508**		**498**
			Bassian Rise 4					**0.352**		**345**		**335**														**0.561**		**632**		**622**
			Bassian Rise 5					**0.404**		**416**		**406**														**0.641**		**744**		**734**
		Lakes Entrance Formation	**Upper Early Oligocene Wedge**	0.995	1213	1192	0.446	**0.445**	462.4	**462**	452.4	**452**	1.259	**1.480**	1697	**2048**	1687	**2038**	1.208	**1.323**	1461	**1637**	1433	**1609**	0.699	**0.699**	808	**808**	798	**798**
			Lower Early Oligocene Wedge					**0.446**		**495**		**485**														**0.767**		**893**		**883**
Latrobe	Cobia	Gurnard Formation		1.032	1259	1238							1.496		2072		2062								0.803		931		921	
		Burong Formation		1.039	1268	1247	0.499		522.4		512.4		1.547		2150		2140		1.328		1645		1617		0.822		952		942	
		Turrum Formation																												
	Halibut	Currajong Volcanics																												
		Flounder Formation																												
		Mackerel Formation																												
		Kingfish Formation		1.189	1477	1456							1.587		2230		2220		1.428		1795		1767							
		Barracouta Formation		1.245	1567	1546																								
		Kate Shale																	1.507		1964		1936							
		Volador Formation																	1.515		1975		1947							
	Golden Beach	Chimaera Formation																												
		Anemone Formation																												
	Emperor	Curlip Formation																												
		Kipper Shale																												
		Admiral Formation																												
		Kersop Arkose																												
Strzelecki	Korumburra																													
BASEMENT							0.556		591.3		581.3														0.876		1018		1008	
Volcanics of Uncertain Stratigraphic Age																														

Figure A4.3. Formations

Group	Subgroup	Formation	Partridge, 2006	Groper-2 (*)						Kyarra-1A (*)						Melville-1 (**)						Moray-1 (*)					
				TWT (s)	**TWT (s)**	Depth (mKB)	**Depth (mKB)**	Depth (mSS)	**Depth (mSS)**	TWT (s)	**TWT (s)**	Depth (mKB)	**Depth (mKB)**	Depth (mSS)	**Depth (mSS)**	TWT (s)	**TWT (s)**	Depth (mKB)	**Depth (mKB)**	Depth (mSS)	**Depth (mSS)**	TWT (s)	**TWT (s)**	Depth (mKB)	**Depth (mKB)**	Depth (mSS)	**Depth (mSS)**
Seaspray		Gippsland Formation	**Bassian Rise 1**	0.078		69		59		0.057		74		43		0.099		100		75		0.099		85.5		75.5	
			Bassian Rise 2																								
			Bassian Rise 3																								
			Bassian Rise 4																								
			Bassian Rise 5																								
		Lakes Entrance Formation	**Upper Early Oligocene Wedge**	0.600	**0.593**	687	**680**	677	**670**	0.784	**0.850**	919	**996**	888	**965**	1.192	**1.678**	1525	**2214**	1500	**2189**	1.194	**1.336**	1423	**1625**	1413	**1615**
			Lower Early Oligocene Wedge																								
Latrobe	Cobia	Gurnard Formation		0.659		760		750		0.866		1013		982		1.688		2232		2207		1.345		1640		1630	
		Burong Formation		0.664		765		755		0.878		1028		997													
		Turrum Formation																									
	Halibut	Currajong Volcanics																									
		Flounder Formation																									
		Mackerel Formation																				1.367		1678		1668	
		Kingfish Formation														1.718		2286		2261							
		Barracouta Formation								0.987		1173		1142													
		Kate Shale														1.904		2626		2601		1.444		1813		1803	
		Volador Formation														1.921		2658		2633		1.458		1837		1827	
	Golden Beach	Chimaera Formation (includes "Campanian Volcanics" and "Transition Beds" In Melville-1)								1.017		1216		1185		2.021		2847		2822							
		Anemone Formation																									
	Emperor	Curlip Formation														2.106		3022		2997							
		Kipper Shale																									
		Admiral Formation																									
		Kersop Arkose																				1.497		1905		1895	
Strzelecki	Korumburra									1.042		1251		1220													
BASEMENT				0.723		842		832																			
Melville-1 TD Volcanics of Uncertain Stratigraphic Age																2.273		3330		3305							
																Melville-1 TD Volcanics Campanian? Intrusives? (Partridge 2002, from Melville-1 WCR V2)											

Figure A4.3. Formations *continued*

Group	Subgroup	Formation	Partridge, 2006	Mudskipper-1 (*)						Mullet-1 (#)						Omeo-2A (*)						Perch-1			Pike-1 (*)					
				TWT (s)	**TWT (s)**	Depth (mKB)	**Depth (mKB)**	Depth (mSS)	**Depth (mSS)**	TWT (s)	**TWT (s)**	Depth (mKB)	**Depth (mKB)**	Depth (mSS)	**Depth (mSS)**	TWT (s)	**TWT (s)**	Depth (mKB)	**Depth (mKB)**	Depth (mSS)	**Depth (mSS)**	TWT (s)	Depth (mKB)	Depth (mSS)	TWT (s)	**TWT (s)**	Depth (mKB)	**Depth (mKB)**	Depth (mSS)	**Depth (mSS)**
Seaspray		Gippsland Formation	**Bassian Rise 1**	0.097		101		74		0.070	**0.070**	63	**63**	53	**53**	0.081		84		61		0.056	52	42	0.097		84		74	
			Bassian Rise 2								**0.275**		**260**		**250**														
			Bassian Rise 3								**0.382**		**383**		**373**														
			Bassian Rise 4								**0.462**		**474**		**464**														
			Bassian Rise 5								**0.528**		**560**		**550**														
		Lakes Entrance Formation	**Upper Early Oligocene Wedge**	1.046	**1.215**	1220	**1448**	1193	**1421**	0.583	**0.583**	620	**619**	610	**609**	1.696	**1.680**	2182	**2181**	2159	**2158**	0.842	975	965	1.302	**1.450**	1611	**1810**	1601	**1601**
			Lower Early Oligocene Wedge								**0.631**		**672**		**662**														
Latrobe	Cobia	Gurnard Formation		1.230		1475		1448		0.646		690		680		1.733		2246		2223		0.942	1106	1096						
		Burong Formation								0.651		698		688								0.963	1129	1119						
		Turrum Formation																												
	Halibut	Currajong Volcanics																												
		Flounder Formation																												
		Mackerel Formation		1.249		1504.5		1477.5																						
		Kingfish Formation														1.791		2347		2324					1.455		1818		1808	
		Barracouta Formation														1.984		2701		2678		1.081	1277	1267						
		Kate Shale																												
		Volador Formation																												
	Golden Beach	Chimaera Formation														2.141		2964		2941		1.211	1480	1470						
		Anemone Formation																												
	Emperor	Curlip Formation																				1.216	1490	1480						
		Kipper Shale																												
		Admiral Formation																												
		Kersop Arkose																												
Strzelecki	Korumburra																					1.248	1538	1528						
BASEMENT				1.310		1612		1585		0.679		738		728																
Volcanics of Uncertain Stratigraphic Age																														

Figure A4.3. Formations *continued*

Group	Subgroup	Formation	Partridge, 2006	Pisces-1			Sailfish-1			Tarra-1 (*)						Tommyruff-1			Wasabi-1			Wyrallah-1 (*)					
				TWT	Depth	Depth	TWT	Depth	Depth	TWT	**TWT**	Depth	**Depth**	Depth	**Depth**	TWT	Depth	Depth	TWT	Depth	Depth	TWT	**TWT**	Depth	**Depth**	Depth	**Depth**
				(s)	(mKB)	(mSS)	(s)	(mKB)	(mSS)	(s)	**(s)**	(mKB)	**(mKB)**	(mSS)	**(mSS)**	(s)	(mKB)	(mSS)	(s)	(mKB)	(mSS)	(s)	**(s)**	(mKB)	**(mKB)**	(mSS)	**(mSS)**
Seaspray		Gippsland Formation	**Bassian Rise 1**	0.160	144	122	0.269	260	250	0.082		93		63		0.043	54	33	No information			0.042		53		32	
			Bassian Rise 2																								
			Bassian Rise 3																								
			Bassian Rise 4																								
			Bassian Rise 5																								
		Lakes Entrance Formation	**Upper Early Oligocene Wedge**	1.257	1475	1453				1.379	**1.637**	1752	**2110**	1722	**2080**	0.722	840	819				0.702	**0.717**	820	**840**	799	**819**
			Lower Early Oligocene Wedge																				**0.746**		**875**		**854**
Latrobe	Cobia	Gurnard Formation		1.482	1796	1774				1.654		2140		2110		0.769	897	876									
		Burong Formation								1.725		2256		2226		0.773	901	880				0.745		874		853	
		Turrum Formation																									
	Halibut	Currajong Volcanics																									
		Flounder Formation																									
		Mackerel Formation																									
		Kingfish Formation								1.734		2272		2242		0.981	1166	1145									
		Barracouta Formation														1.008	1198	1177				0.901		1071		1050	
		Kate Shale																									
		Volador Formation		1.508	1826	1804																					
	Golden Beach	Chimaera Formation																									
		Anemone Formation		1.585	1925	1903																					
	Emperor	Curlip Formation														1.084	1307	1286									
		Kipper Shale														1.099	1328	1307									
		Admiral Formation																									
		Kersop Arkose																									
Strzelecki	Korumburra									1.908		2583		2553													
BASEMENT																											
Volcanics of Uncertain Stratigraphic Age							1.025	1238	1228																		
							Sailfish-1 TD Volcanics of unknown age; Gipps Fm picked from first seafloor returns (Sailfish-1 WCR)																			

Figure A4.3. Formations *continued*

WELL	SPUD	GDPI10 TIE	DISTANCE FROM NEAREST GDPI10 LINE		TD	MAX AGE	TD FORMATION	KEY WELL	RATIONALE
amberjack -1	1990	NO	190 m NW	GDPI10-04	1750	Paleocene (Up. L. Balmei)	Barracouta	Yes	Location
bluebone-1	1969	YES		GDPI10-917	605	Eocene (Low N. asperus) above Basement	BASEMENT	Yes	BASEMENT Well
bullseye-1	1973	YES	<10 m away	GDPI10-906 and GDPI10-013	2386	Paleocene (A. hypercanthum)	Kingfish	Yes	Location
devilfish-1	1990	YES	<10 m away	GDPI10-028	2058	Maastrichtian (Up F. longus)	Volador	Yes	Location/stratigraphy
dolphin-1	1967	NO	610 m NE	GDPI10-907	2883.7	Campanian (N. senectus)	Chimaera	No	No checkshots
dolphin-2	1989	NO	720 m NE	GDPI10-907	1322	Unknown		No	Insufficient information and no seismic tie
dolphin-a3	1997	NO	720 m NE	GDPI10-907	1373	Unknown		No	Insufficient information and no seismic tie
groper-1	1969	YES		GDPI10-914 and GDPI10-020	1035.4	Eocene (Low N. asperus) above Basement	BASEMENT	Yes	BASEMENT Well
groper-2	1969	YES		GDPI10-917 and GDPI10-017	875	Eocene (Low N. asperus) above Basement	BASEMENT	Yes	BASEMENT Well
kyarra-1	1983	YES	<10 m away	GDPI10-913	210	see Kyarra-1a		No	see Kyarra 1A
kyarra-1a	1983	YES	<10 m away	GDPI10-913 and GDPI10-007	1280	Aptian/Albian (C. striatus)	Korumburra	Yes	Location/stratigraphy
melville-1	2001	NO	210 m NW	GDPI10-026	3345	Turonian (P. mawsonii)	Emperor SG	Yes	Location/stratigraphy
moray-1	1972	YES	<10 m away	GDPI10-033	2669.7	Turonian (P. mawsonii)	Kersop Arkose	Yes	Line tie/Stratigraphy
mudskipper-1	1990	YES		GDPI10-036	1631	Paleocene (E. crassitabulata) above Basement	BASEMENT	Yes	BASEMENT Well
mullet-1	1969	NO	25 m NW	GDPI10-039	751	Eocene (N. asperus) above Basement	BASEMENT	Yes	BASEMENT Well
omeo-1/ST1	1983	YES	<10 m away	GDPI10-904 and GDPI10-017	3379	Turonian (P. mawsonii)	Emperor SG	No	close to Omeo_2A
omeo-2	1985	YES	<10 m away	GDPI10-904	293	see Omeo-2a		No	see Omeo 2A
omeo-2a	1985	YES	<10 m away	GDPI10-904	3400	Maastrichtian (Up F. longus)	Chimaera	Yes	Line tie/Stratigraphy
palmer-1	1981	NO	270 m NE	GDPI10-909	1723	Turonian (P. mawsonii)		No	close to Perch 1/no tie
perch-1	1968	NO	16 m NW	GDPI10-007	2866.9	Aptian (C. hughesii)	Korumburra	Yes	near Line tie/Stratigraphy
perch-2	1985	NO	250 m SE	GDPI10-007	1321	Barremian (F. wonthaggiensis)		No	close to Perch 1/no tie
perch-3	1989	NO	615 m NW	GDPI10-007	1332	Eocene (Low N. asperus)		No	close to Perch 1/no tie
perch-4	1995	NO	650 m NW	GDPI10-007	2052	Unknown		No	close to Perch 1/no tie
pike-1	1973	YES	<10 m away	GDPI10-028	2134	Paleocene (L. Balmei)	Kingfish	Yes	Line tie
pisces-1	1982	NO	50 mNE	GDPI10-901	2580	Santonian (T.apoxyexinus)	Anenome	Yes	Location/stratigraphy
sailfish-1	1971	YES	<10 m away	GDPI10-907 and GDPI10-066	1422	Miocene	Unnamed volcanics	Yes	Location
tarra-1	1983	NO	35 m NE	GDPI10-905 and GDPI10-018	2905	Alb/Apt (C. striatus)	Korumburra	Yes	Stratigraphy
tommyruff-1	1990	NO	170 m SW	GDPI10-912	1550	Turonian (P. mawsonii)	Kipper Sh	Yes	Location/stratigraphy
wasabi-1	2008	NO	345 m SE	GDPI10-002	2125	NO INFORMATION		Yes	New well
wyrallah-1	1984	YES	<10 m away	GDPI10-914 and GDPI10-004	1160	Paleocene (Up L. Balmei)	Barracouta	Yes	Location

Figure A4.4. Key wells - basic data (Table 2.4)

WELL	KEY WELL	T/D-relationship	Synthetic	Formation tops 3D-GEO (Kingdom)	Formation tops DPI-WCR	Deviation Survey	Biostrat GA_Bug	Cali	DT	GR	RHOB	DRHO	SP	NPHI	ILD	MSFL	SFL	LLD	LLS	others
amberjack -1	Yes	GA	NO	Yes	Yes (1 only)	Yes	NO													
bluebone-1	Yes	unknown	NO	Yes	NO	Yes-vert	Yes	las												
bullseye-1	Yes	GA	NO	Yes	Yes	Yes	Yes													
devilfish-1	Yes	DPI_qc	NO	Yes	Yes	Yes	Yes													
dolphin-1	No	NO	NO	Yes	Yes	Yes	Yes													
dolphin-2	No	NO	NO	Yes	Yes	Yes-vert	NO													
dolphin-a3	No	NO	NO	Yes	Yes	Yes	NO													
groper-1	Yes	GA	NO	Yes	Yes	Yes	Yes													
groper-2	Yes	DPI_qc	NO	Yes	Yes	Yes	Yes													
kyarra-1	No	DPI_qc	NO	NO	NO	Yes	NO													
kyarra-1a	Yes	GA	NO	Yes	Yes	Yes	Yes													
melville-1	Yes	unknown	NO	Yes	Yes	Yes	NO	N/A	las	las	N/A									
moray-1	Yes	DPI_qc	NO	Yes	Yes	Yes	Yes													
mudskipper-1	Yes	GA	NO	Yes	Yes	Yes	Yes													
mullet-1	Yes	unknown	NO	Yes	Yes	Yes-vert	NO													
omeo-1/ST1	No	Yes	GA	Yes	Yes	Yes	Yes													
omeo-2	No	NO	NO	Yes	NO	NO	NO													
omeo-2a	Yes	GA	NO	Yes	Yes	Yes	Yes													
palmer-1	No	GA	NO	Yes	Yes	Yes	Yes													
perch-1	Yes	DPI_qc	NO	Yes	Yes	Yes	Yes													
perch-2	No	GA	NO	Yes	Yes	Yes	Yes													
perch-3	No	NO	NO	Yes	Yes	Yes	NO													
perch-4	No	NO	NO	NO	Yes	NO	NO			2 separate										
pike-1	Yes	GA	NO	Yes	Yes	Yes	Yes	las			las									
pisces-1	Yes	GA	NO	Yes	Yes	Yes	Yes													
sailfish-1	Yes	NO	NO	Yes	NO	Yes	NO				N/A									
tarra-1	Yes	DPI_qc	NO	Yes	Yes	Yes	Yes													
tommyruff-1	Yes	GA	NO	Yes	Yes	Yes	Yes													
wasabi-1	Yes	NO	NO	NO	NO	NO	NO	las	las	las	las									
wyrallah-1	Yes	GA	NO	Yes	Yes	Yes	Yes													

Figure A4.5. Key wells - Kingdom (Table 2.5)

WELL	KEY WELL	VIMP Reports	Checkshots spreadsheet	WCR
amberjack-1	Yes	VIMP79 (2003)	Yes	Yes
bluebone-1	Yes		supplied separately	Yes
bullseye-1	Yes	VIMP88 (2006)	Yes	Yes
devilfish-1	Yes	VIMP88 (2006)	Yes	Yes
dolphin-1	No	VIMP79 (2003)	No - none acquired	
dolphin-2	No	VIMP79 (2003)	No - none acquired	
dolphin-a3	No		No - none acquired	
groper-1	Yes	VIMP88 (2006)	Yes	summary
groper-2	Yes	VIMP88 (2006)	Yes	Yes
kyarra-1	No		Yes	
kyarra-1a	Yes	VIMP79 (2003), VIMP88 (2006)	Yes	Yes
melville-1	Yes		supplied separately	Yes
moray-1	Yes	VIMP79 (2003), VIMP88 (2006)	Yes	Yes
mudskipper-1	Yes	VIMP79 (2003), VIMP88 (2006)	Yes	Yes
mullet-1	Yes	VIMP88 (2006)	supplied separately	Yes
omeo-1/ST1	No	VIMP88 (2006)	No	Yes
omeo-2	No		No	
omeo-2a	Yes	VIMP88 (2006)	Yes	Yes
palmer-1	No	VIMP79 (2003)	Yes	Yes
perch-1	Yes	VIMP79 (2003)	Yes	summary
perch-2	No	VIMP79 (2003)	Yes	Yes
perch-3	No	VIMP79 (2003)	No	Yes
perch-4	No		No	Yes
pike-1	Yes	VIMP88 (2006)	Yes	Yes
pisces-1	Yes	VIMP79 (2003), VIMP88 (2006)	Yes	Yes
sailfish-1	Yes	VIMP88 (2006)	No - none acquired	Yes
tarra-1	Yes	VIMP88 (2006)	Yes	Yes
tommyruff-1	Yes	VIMP79 (2003)	Yes	Yes
wasabi-1	Yes		Supplied separately	Basic
wyrallah-1	Yes	VIMP88 (2006)	Yes	Yes

Figure A4.6. Key wells - extra data (Table 2.6)

CONSTRUCTION SURFACE	STRATIGRAPHIC SURFACE
FrOG Tech C01 Seafloor	FrOG Tech 01 Seafloor
FrOG Tech C02 Toplap	construction surface only
FrOG Tech C03 Downlap	FrOG Tech 02 Near Top Bassian Rise Unit 2
FrOG Tech C04 Mid Miocene	FrOG Tech 03 Top Bassian Rise Unit 3
FrOG Tech C05 Slump top	construction surface only
FrOG Tech C06 Slump Container	construction surface supplied supplied in Kingdom project
FrOG Tech C07 Near top Latrobe	FrOG Tech 07 Top Latrobe Group
FrOG Tech C08 Near Base Latrobe	FrOG Tech 11 Top Strzelecki Group
FrOG Tech C09 Basement	FrOG Tech 13 Top Basement

Figure A4.7. Surfaces (Table 7.1)

Appendix 5
Interpretation Extent of the 13 Seismic Horizons

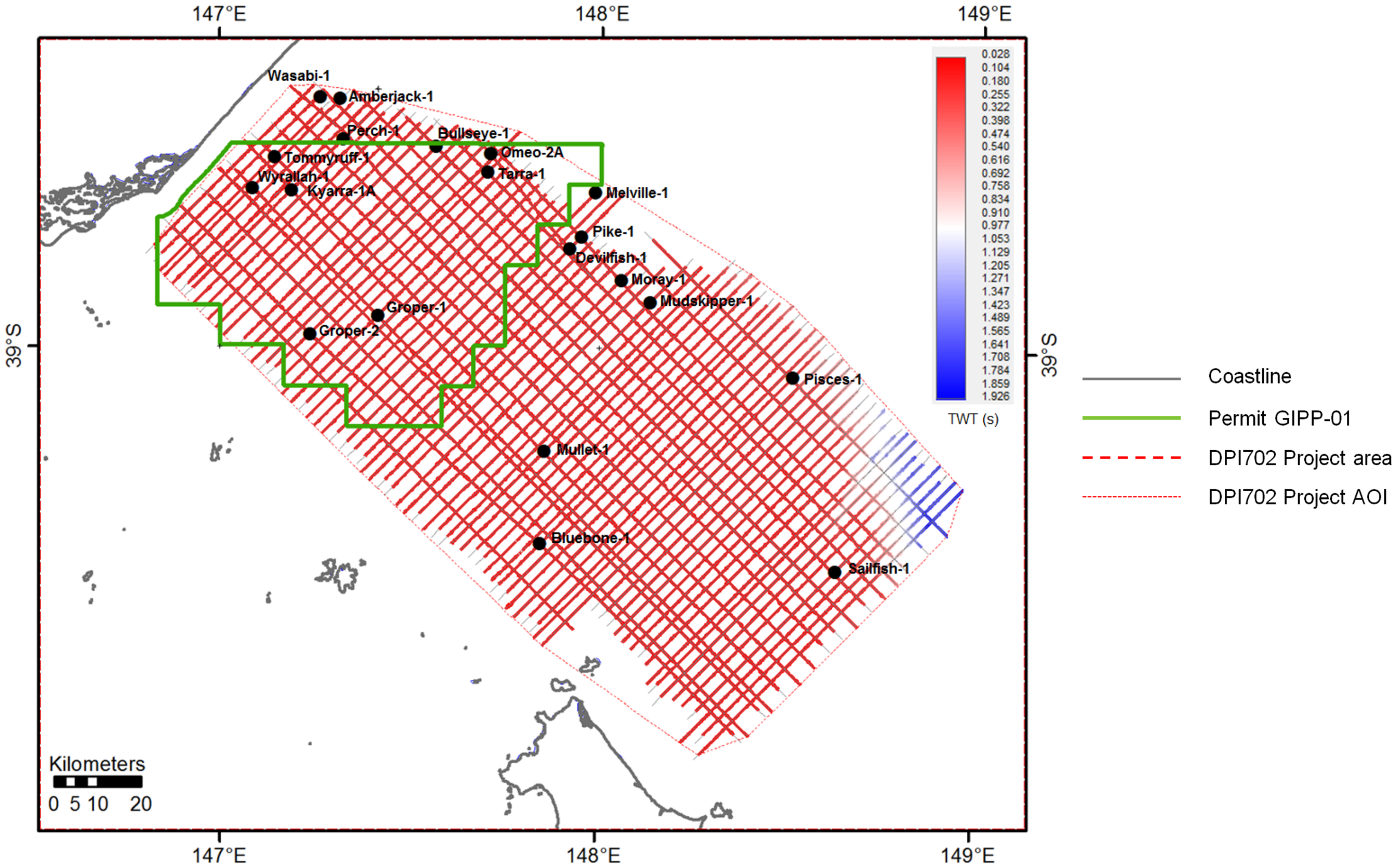


Figure A5.1. FT_01_Seafloor horizon extent

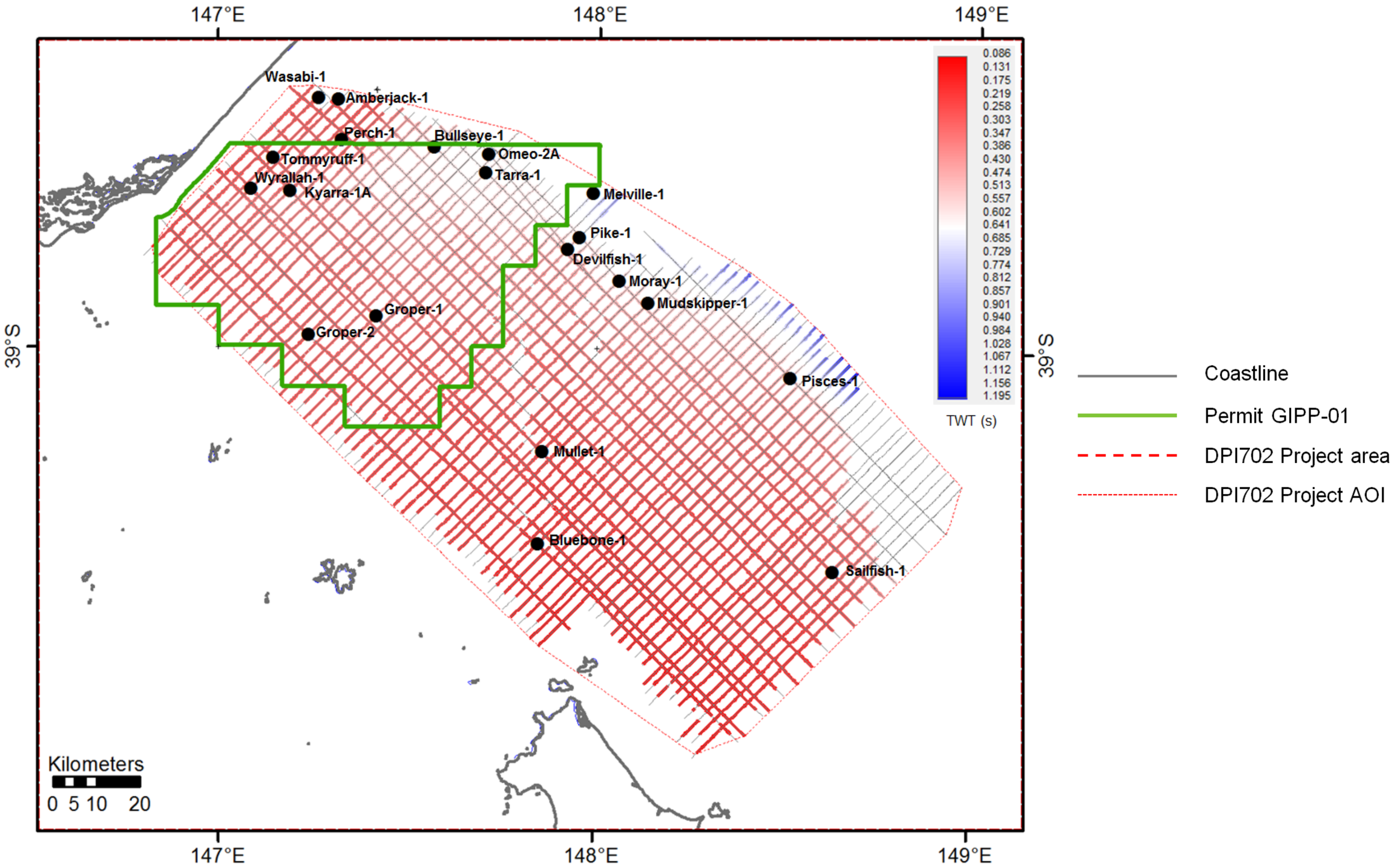


Figure A5.2. FT_02_NT_BR2 horizon extent

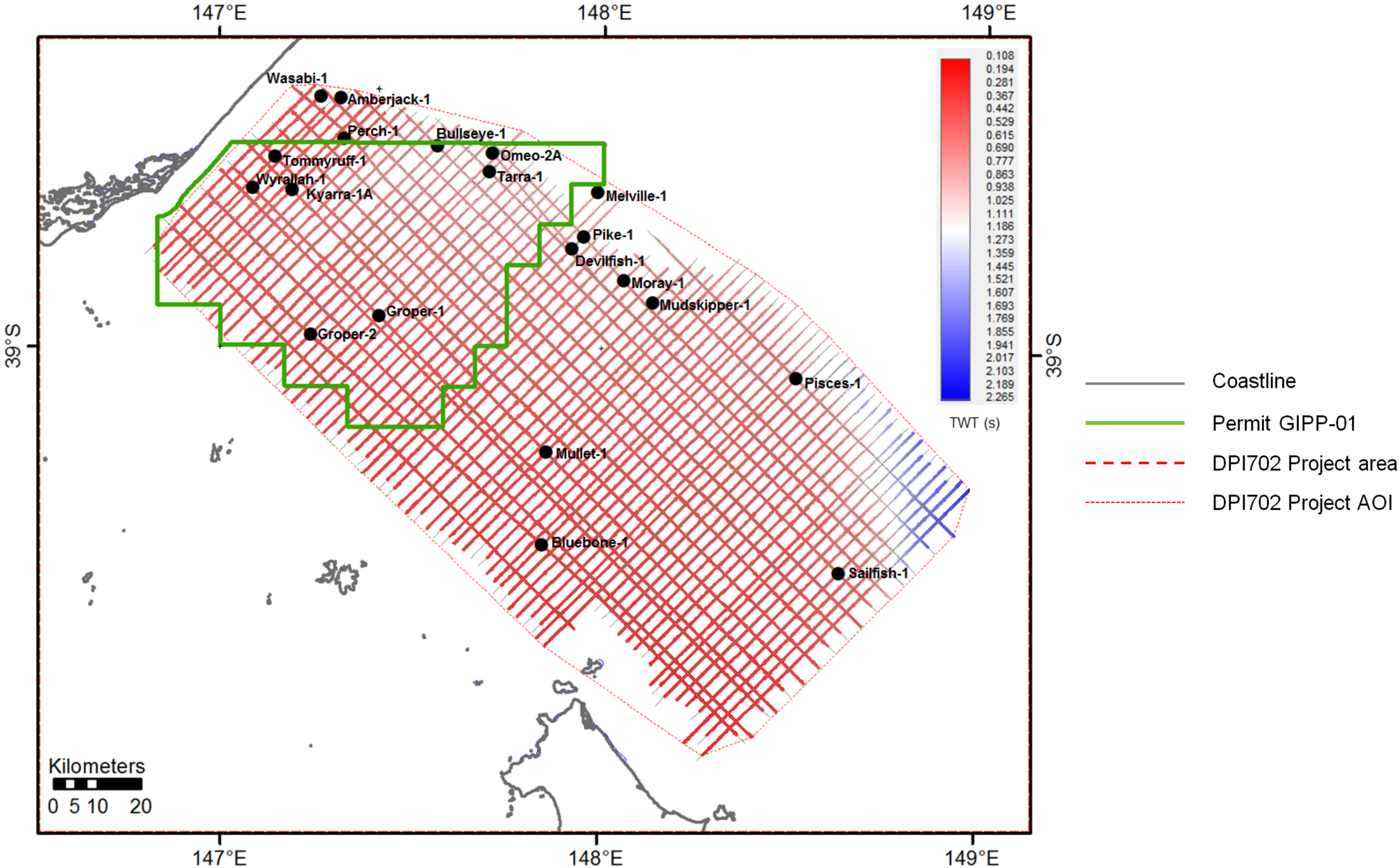


Figure A5.3. FT_03_Top_BR3 horizon extent

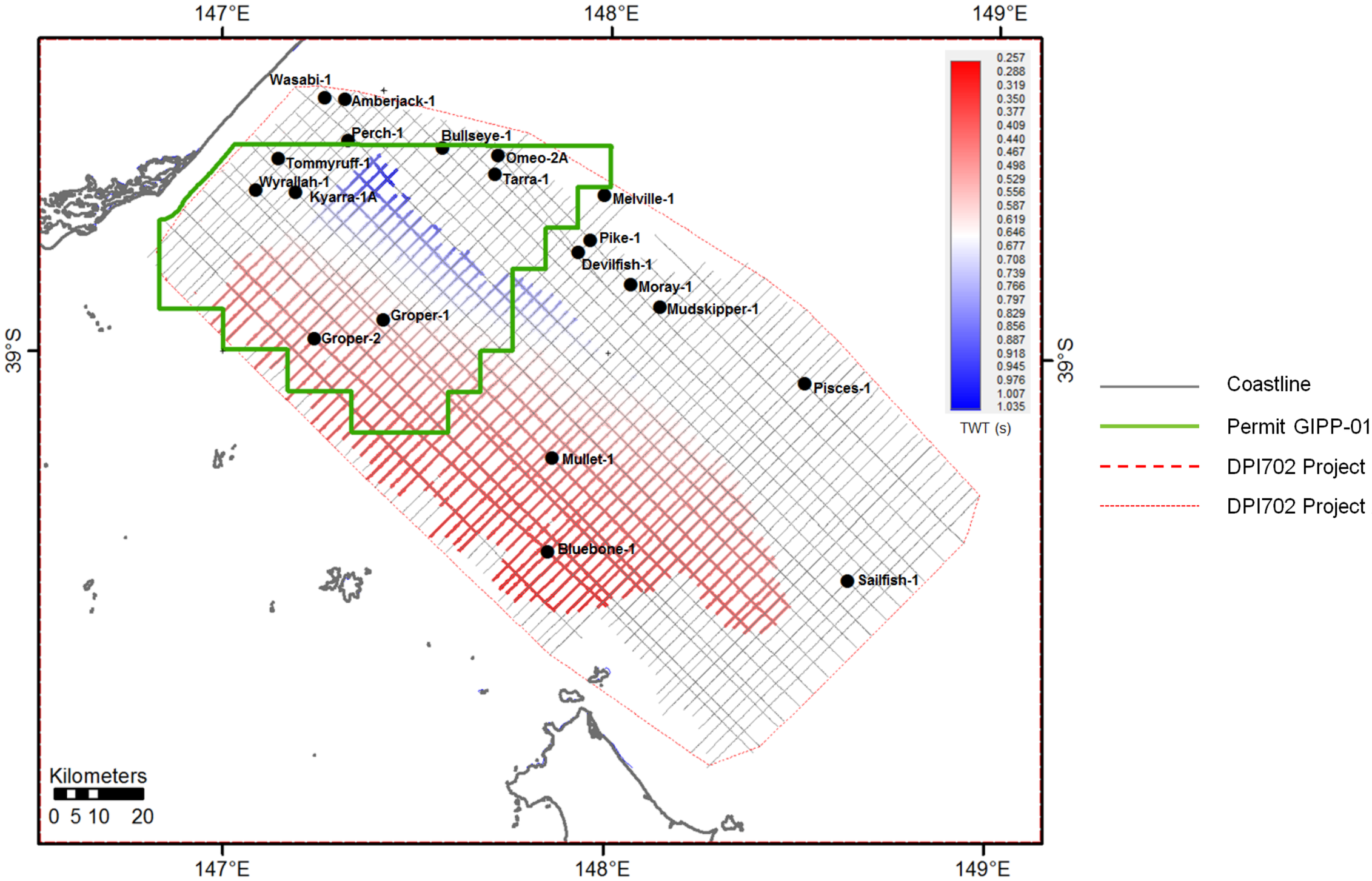


Figure A5.4. FT_04_Top_BR4 horizon extent

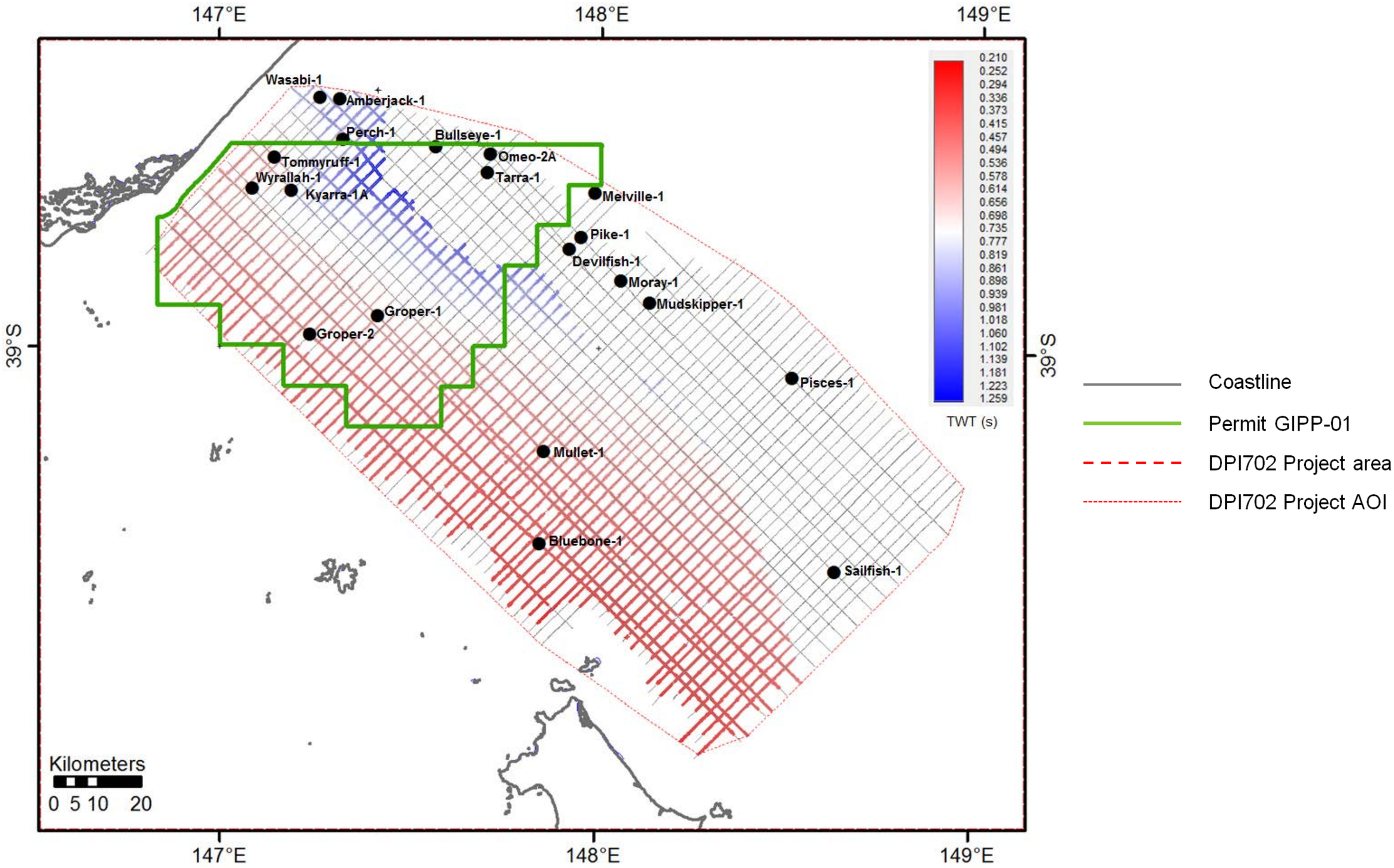


Figure A5.5. FT_05_Top_BR5 horizon extent

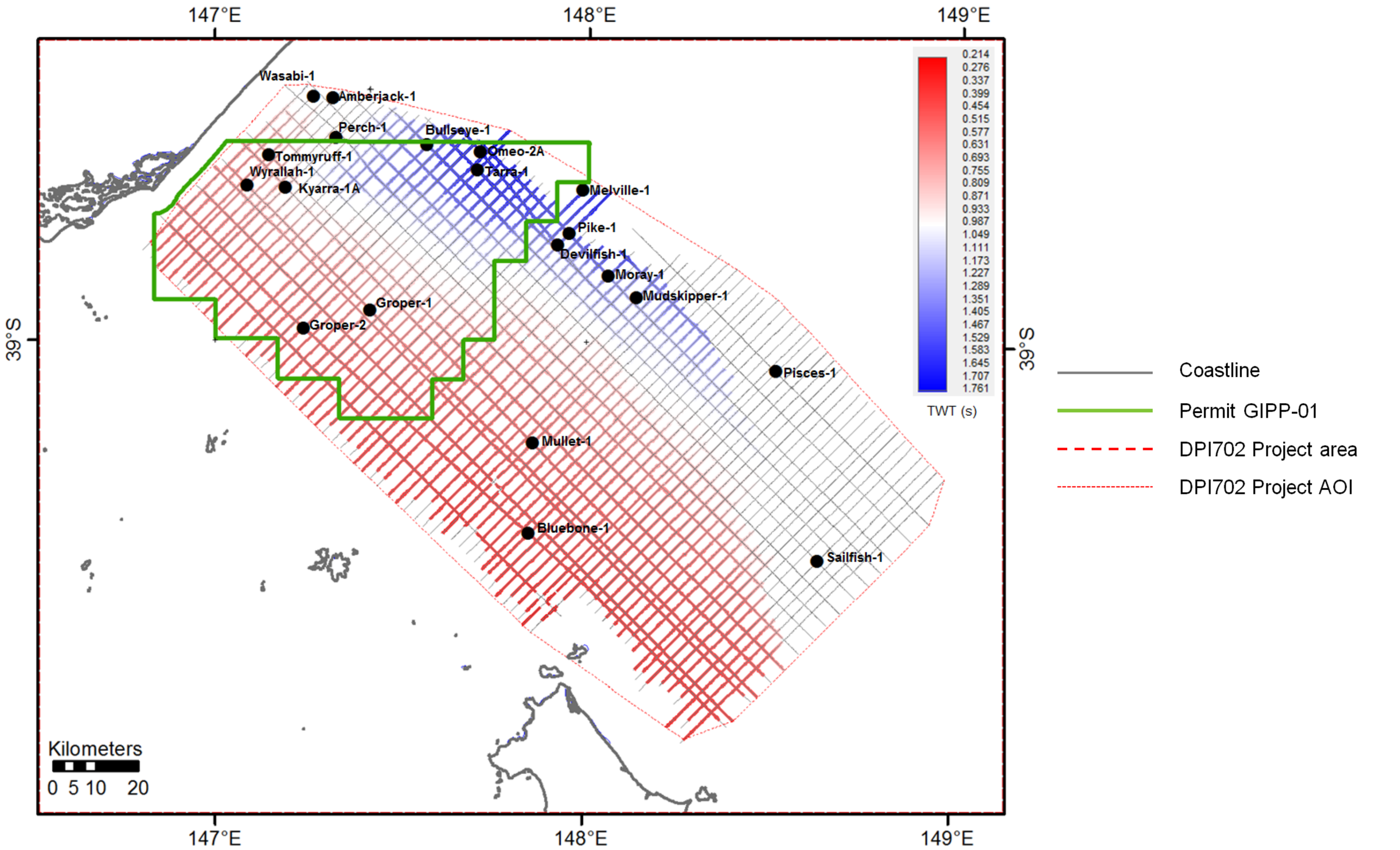


Figure A5.6. FT_06_Top_EOW horizon extent

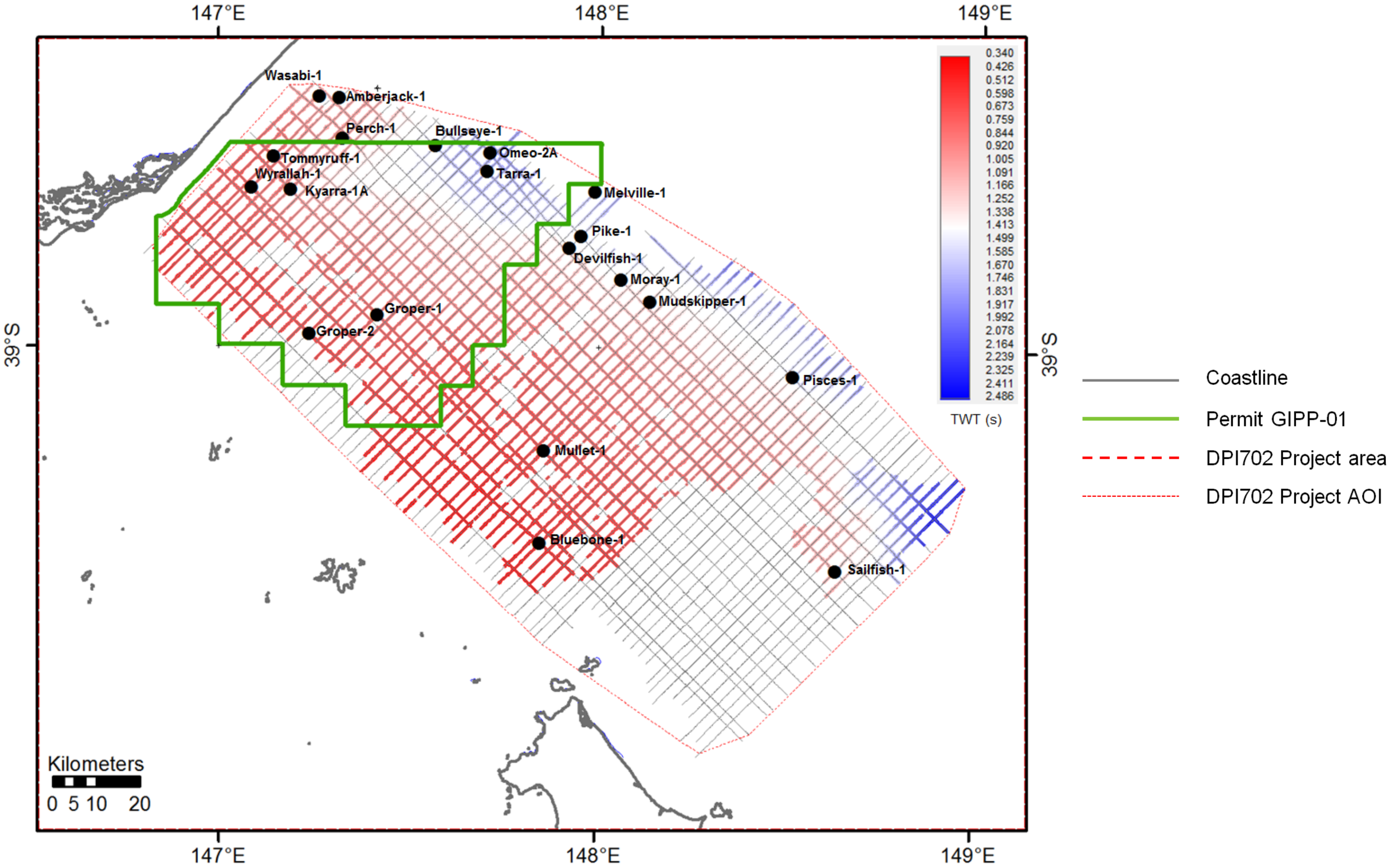


Figure A5.7. FT_07_Top_Latrobe_Gr horizon extent

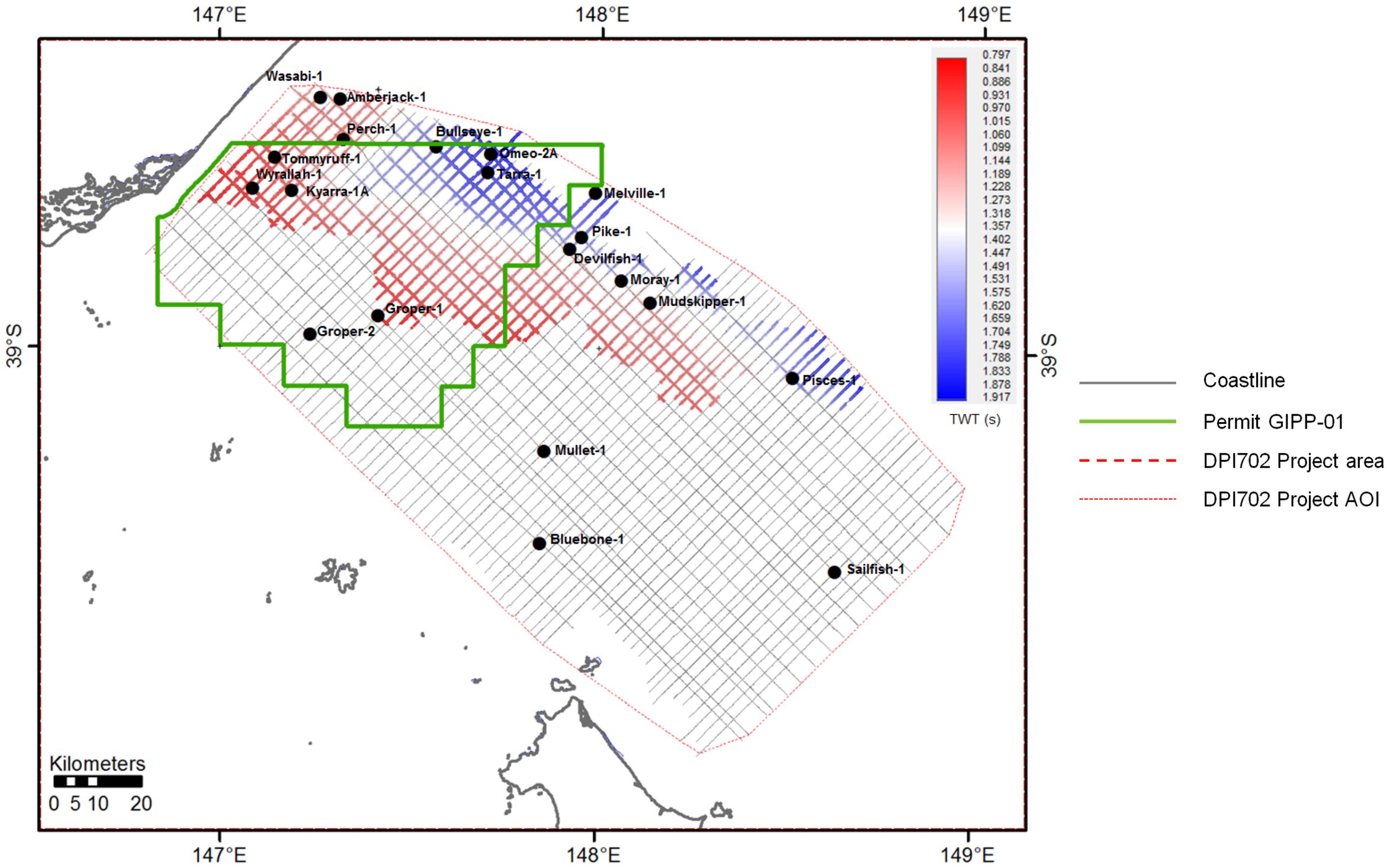


Figure A5.8. FT_08_Top_Halibut_SG horizon extent

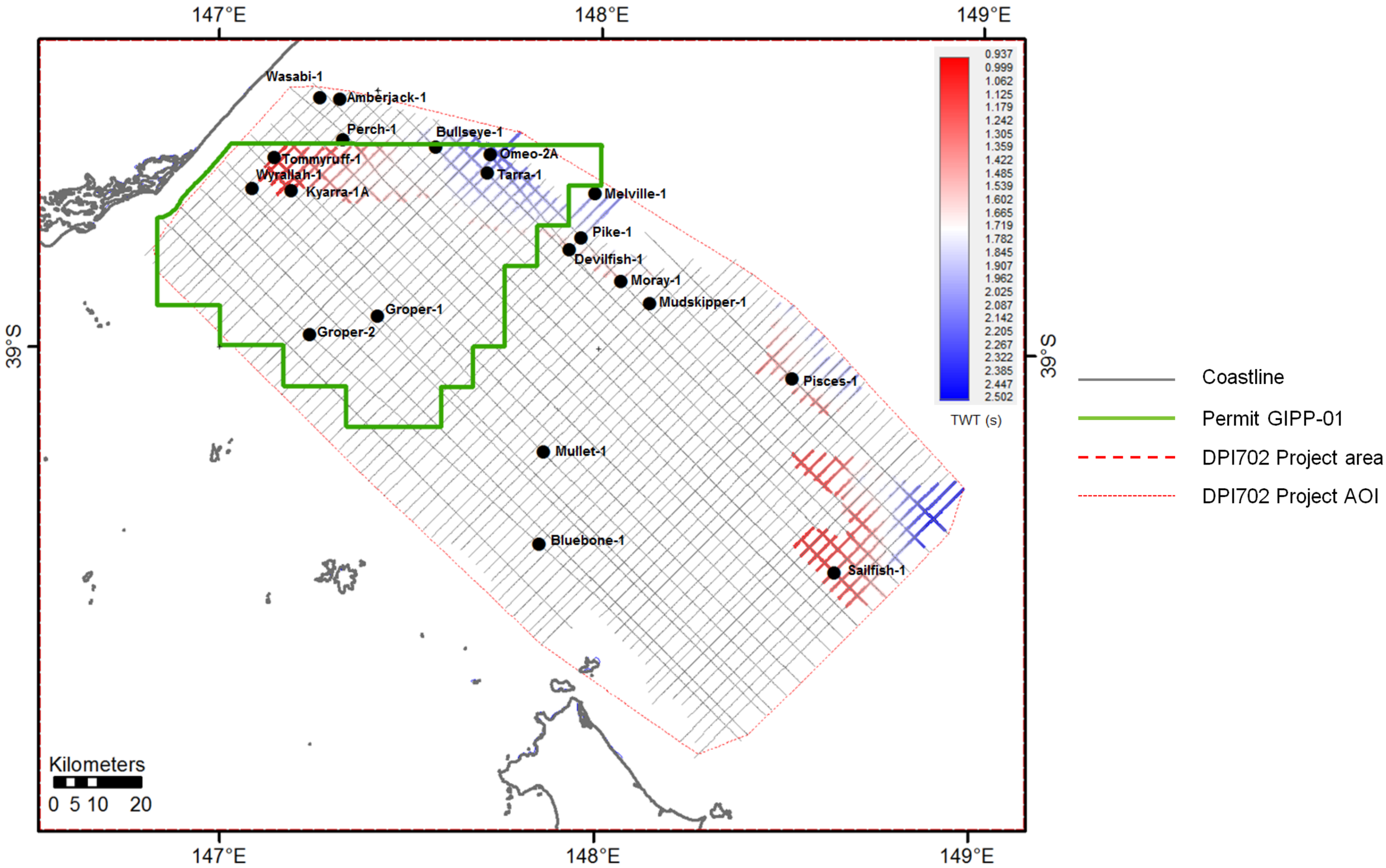


Figure A5.9. FT_09_Top_Golden_Beach_SG horizon extent

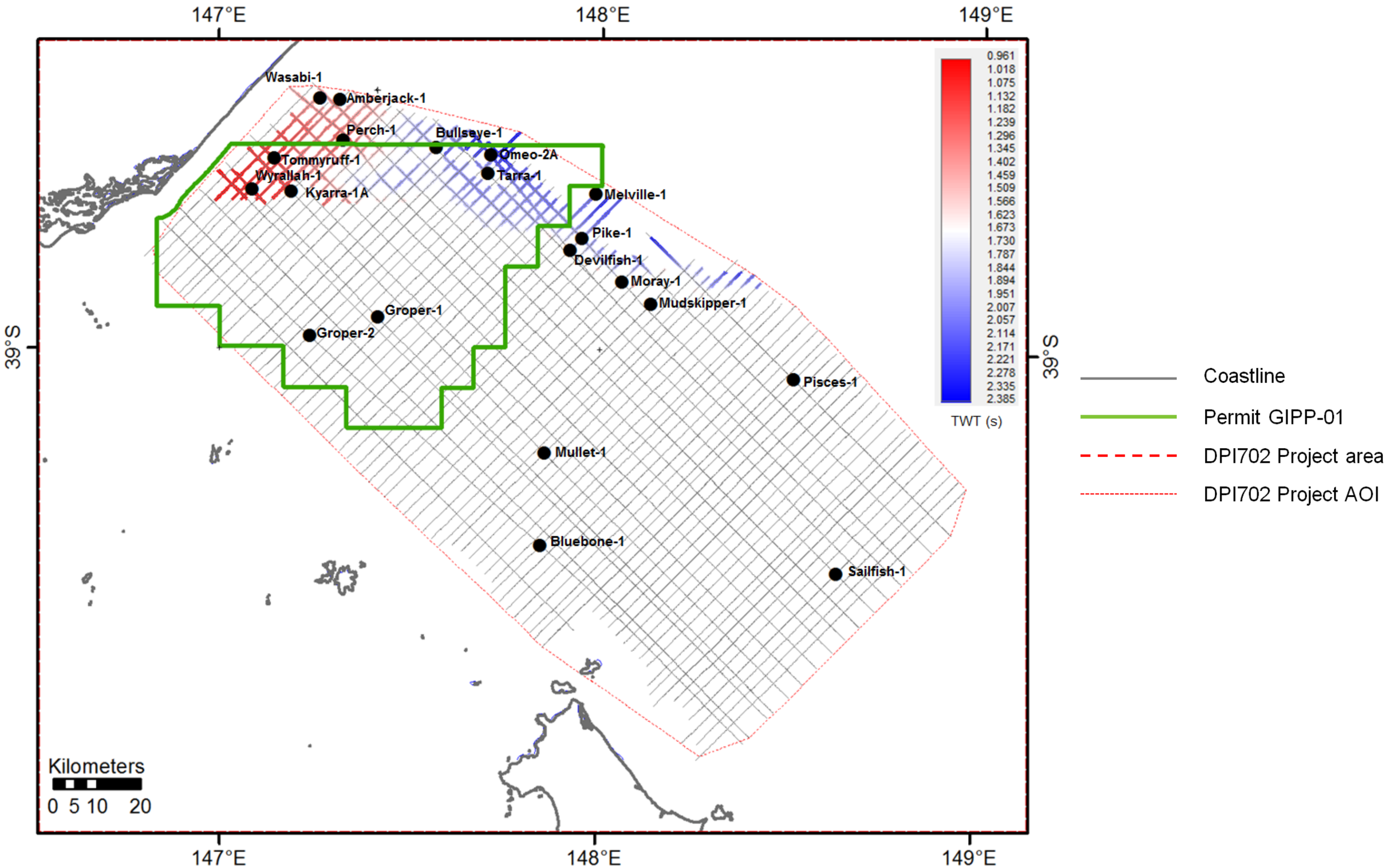


Figure A5.10. FT_10_Top_Emperor_SG horizon extent

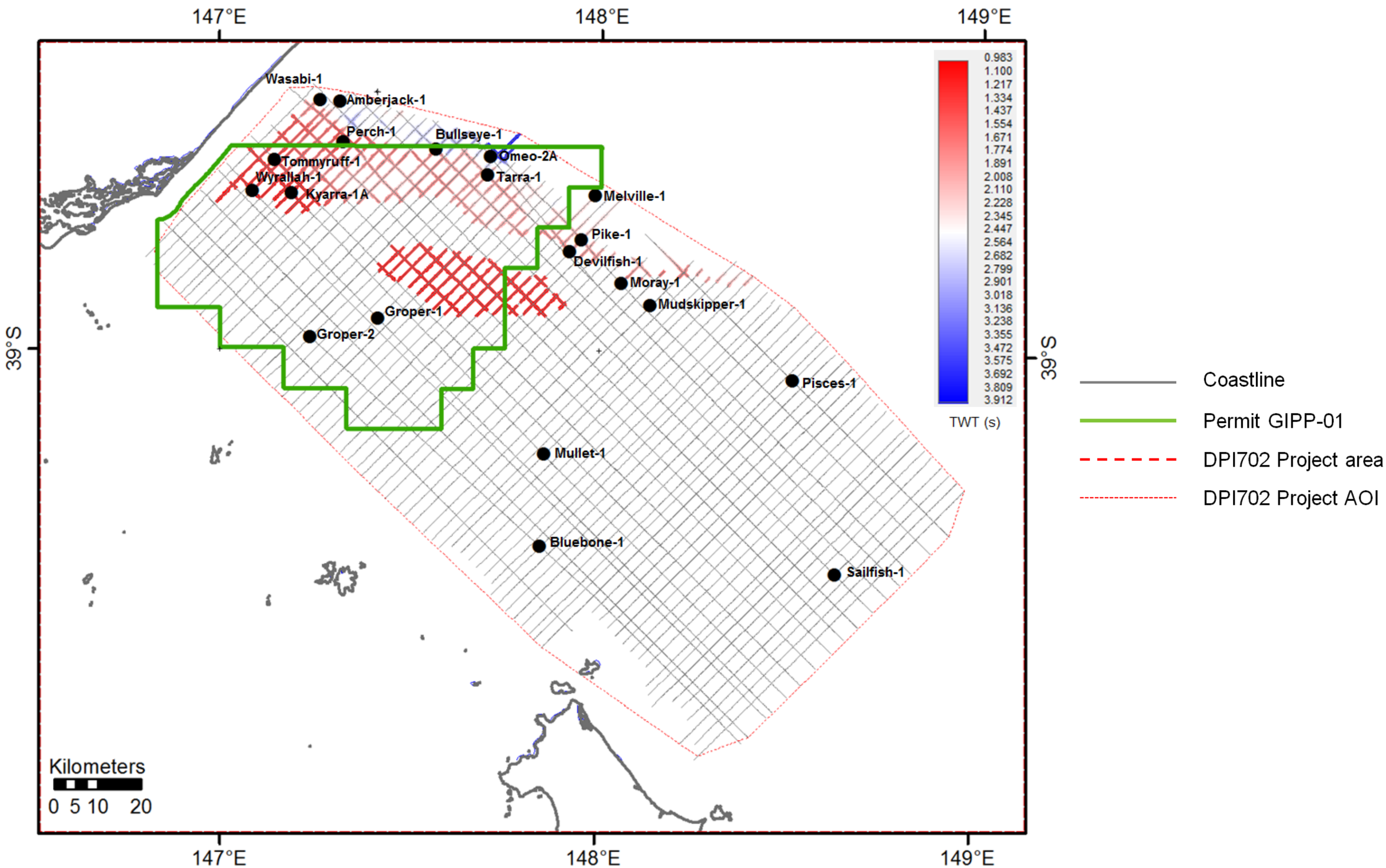


Figure A5.11. FT_11_Top_Strzelecki_Gp horizon extent

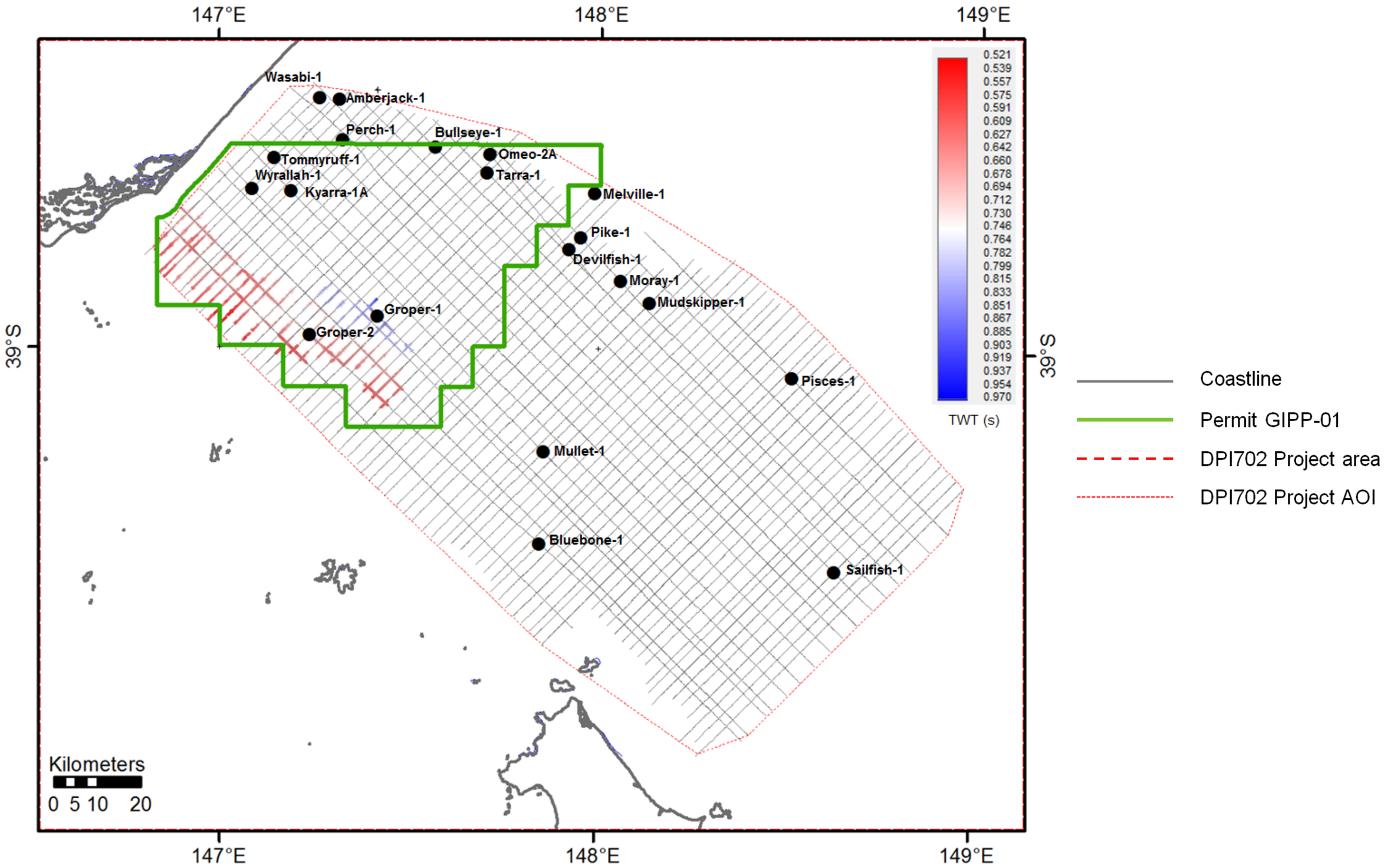


Figure A5.12. FT_12_Top_Pre-Strzelecki_Gp horizon extent

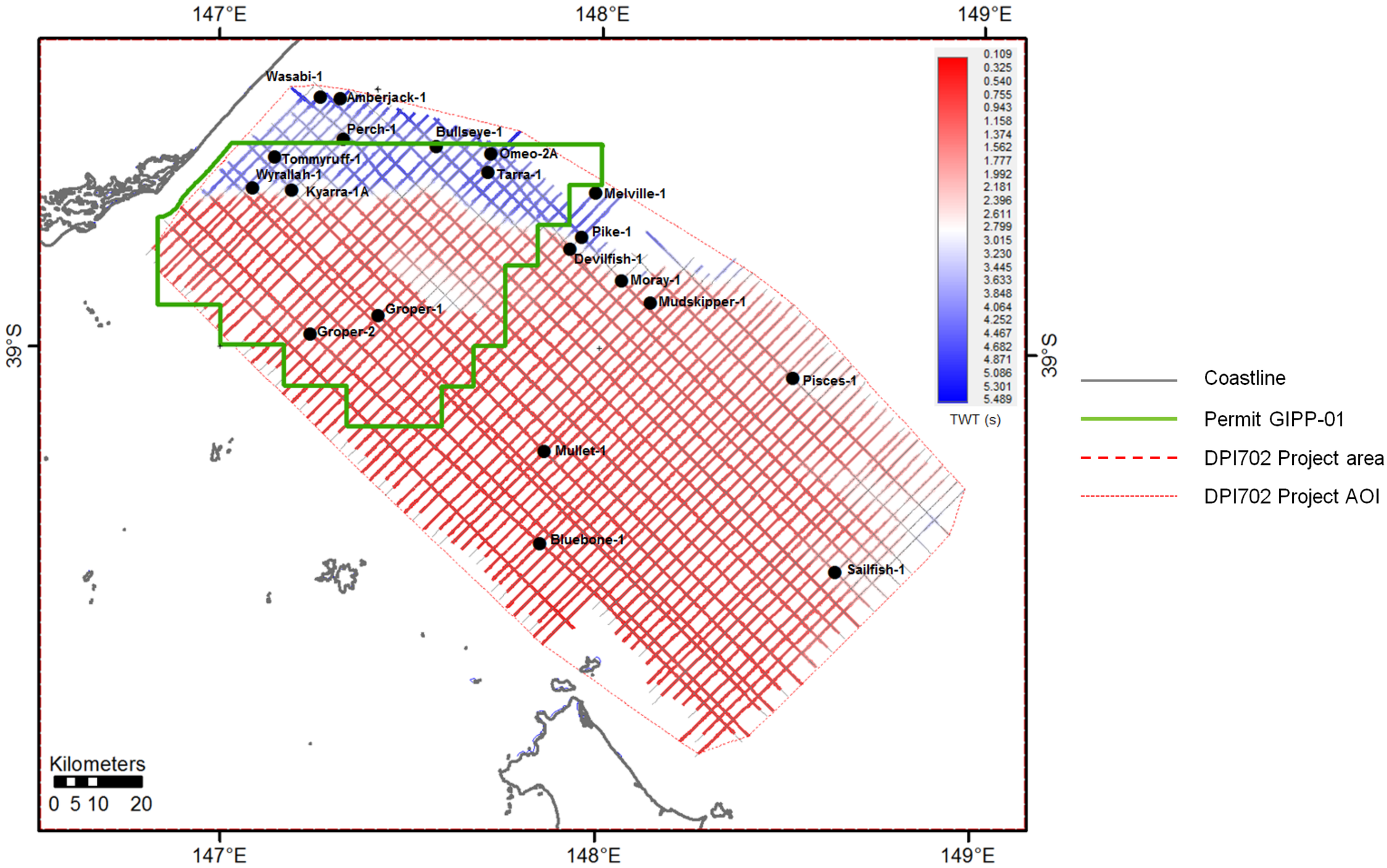


Figure A5.13. FT_13_Top_Basement horizon extent

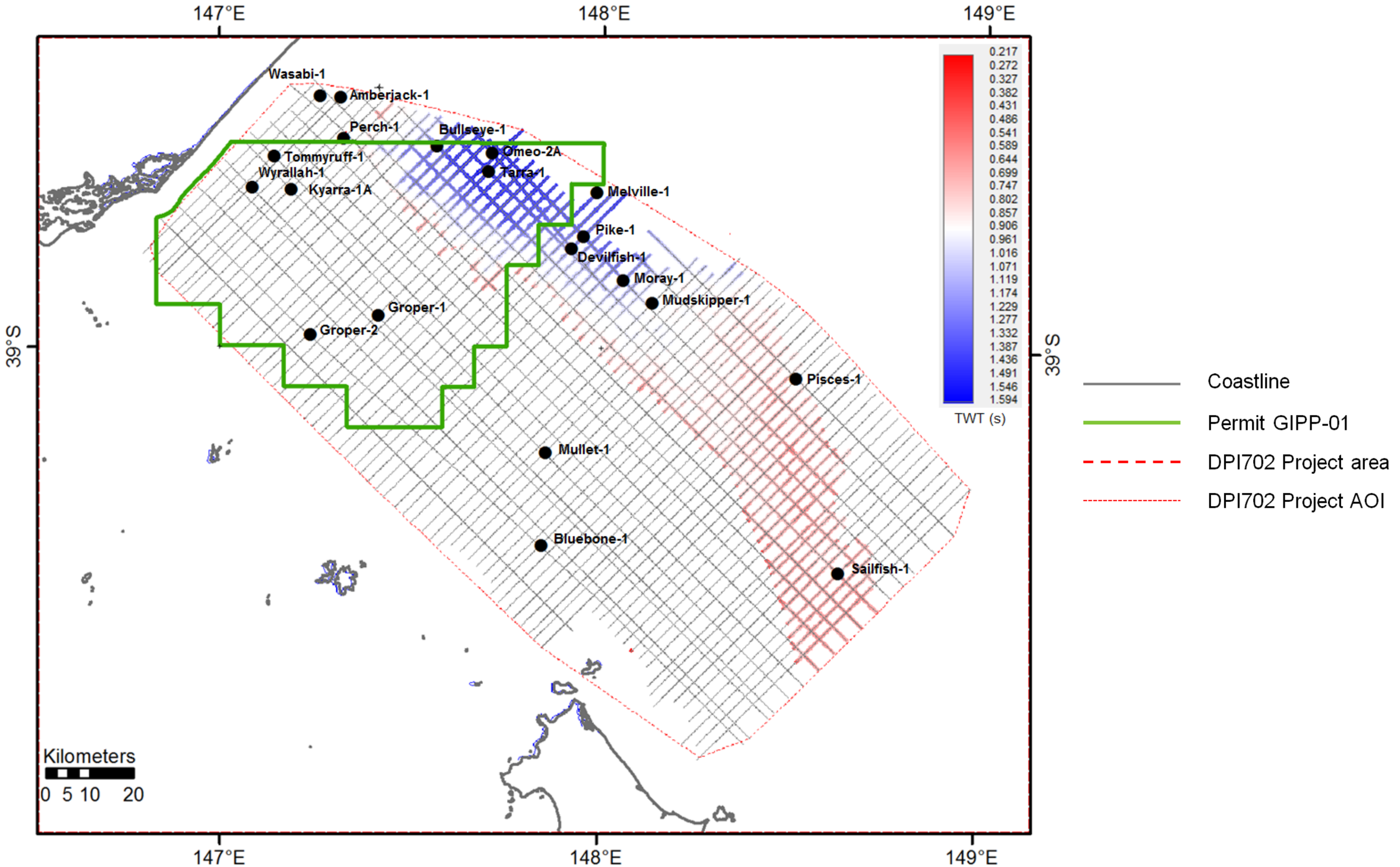


Figure A5.14. FT_C06_Slump_Container horizon extent – NOTE: This is a construction surface only but is included in the Kingdom project to show where slumping has occurred.

Appendix 6
Isochron/Isopach Input Grids

Isochron	Gridded Time Horizons Used (top T, bottom B)												
	FT_01	FT_02	FT_03	FT_04	FT_05	FT_06	FT_07	FT_08	FT_09	FT_10	FT_11	FT_12	FT_13
ft_iso_01_to_13_time_grid	T												B
ft_iso_01_to_top_br3_or_underlying_time_grid*	T		B	B	B								B
ft_iso_03_to_top_eow_or_underlying_time_grid*			T			B	B	B	B				B
ft_iso_06_to_base_eow_time_grid*						T	B					B	B
ft_iso_07_to_base_cobia_sg_time_grid*							T	B	B	B		B	B
ft_iso_07_to_base_latrobe_gr_time_grid*							T				B	B	B
ft_iso_08_to_base_golden_beach_sg_time_grid*								T		B	B		B
ft_iso_10_to_base_latrobe_gr_time_grid*										T	B		B
ft_iso_11_to_13_time_grid											T		B
ft_iso_12_to_13_time_grid												T	B

Isopach**	Gridded Depth Horizons Used (top T, bottom B)												
	FT_01	FT_02	FT_03	FT_04	FT_05	FT_06	FT_07	FT_08	FT_09	FT_10	FT_11	FT_12	FT_13
ft_iso_01_to_03_depth_grid_tied	T		B										
ft_iso_01_to_top_br3_or_underlying_depth_grid_tied*	T		B	B	B								B
ft_iso_03_to_top_eow_or_underlying_depth_grid_tied*			T			B	B	B	B				B
ft_iso_06_to_base_eow_depth_grid_tied*						T	B					B	B
ft_iso_07_to_base_cobia_sg_depth_grid_tied*							T	B	B	B		B	B
ft_iso_07_to_base_latrobe_gr_depth_grid_tied*							T				B	B	B
ft_iso_08_to_base_golden_beach_sg_depth_grid_tied*								T		B	B		B
ft_iso_10_to_base_latrobe_gr_depth_grid_tied*										T	B		B
ft_iso_11_to_13_depth_grid_tied											T		B
ft_iso_12_to_13_depth_grid_tied												T	B

(*) These isopachs/isochrons were calculated with a bottom surface that is a merged minimum depth surface of the noted (B) horizons.

(**) All isopachs are calculated from top and bottom horizons that have been corrected (tied) to fit horizon picks in wells.

Table A6 Isochron/Isopach input grids

Appendix 7
Maps of Interval Velocity for Isopachs and Average Velocity for Interpreted Surfaces.

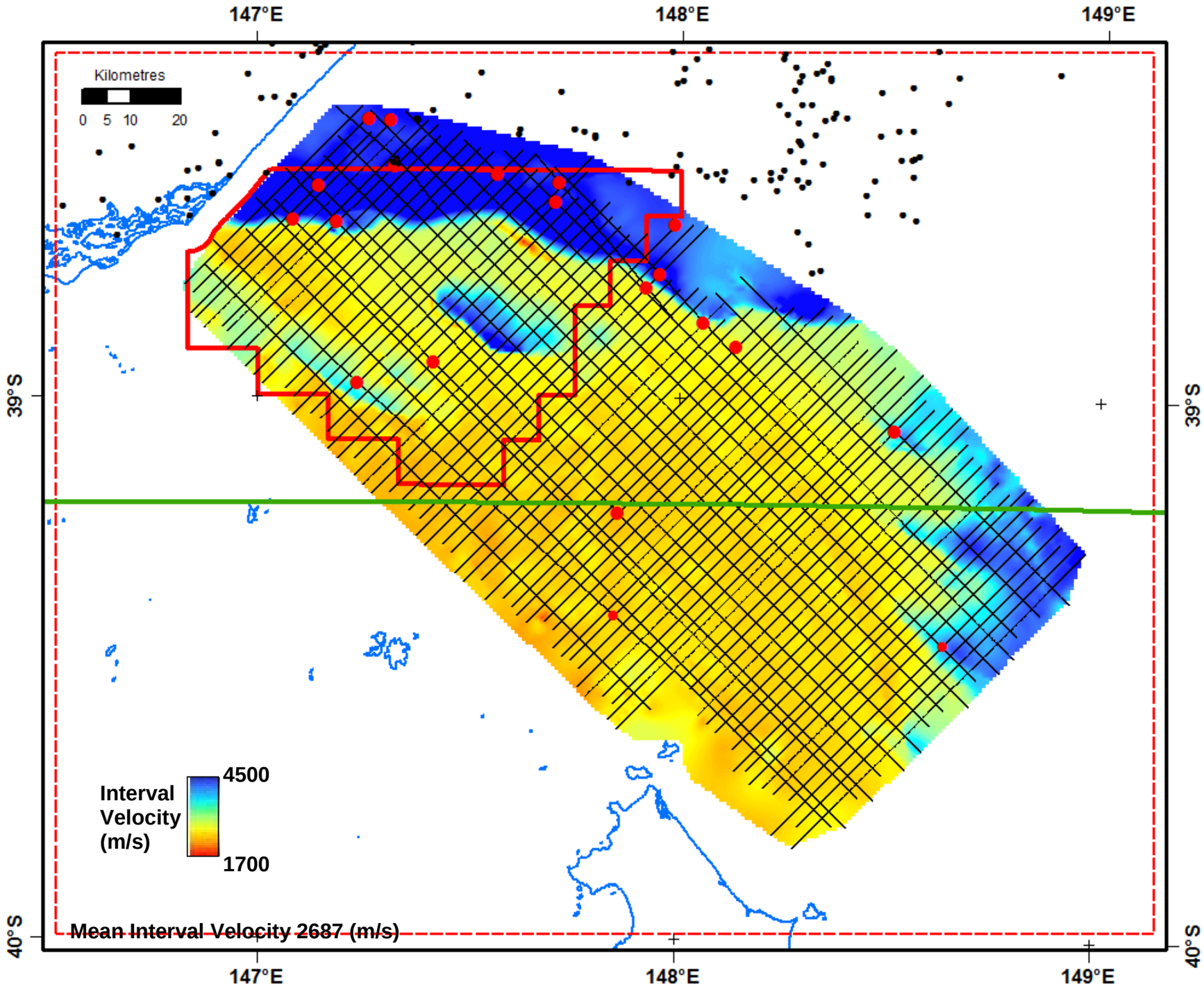


Figure A7.1. Variation of interval velocity for FrOG Tech 01 Seafloor to FrOG Tech 13 Top Basement (total sediment thickness).

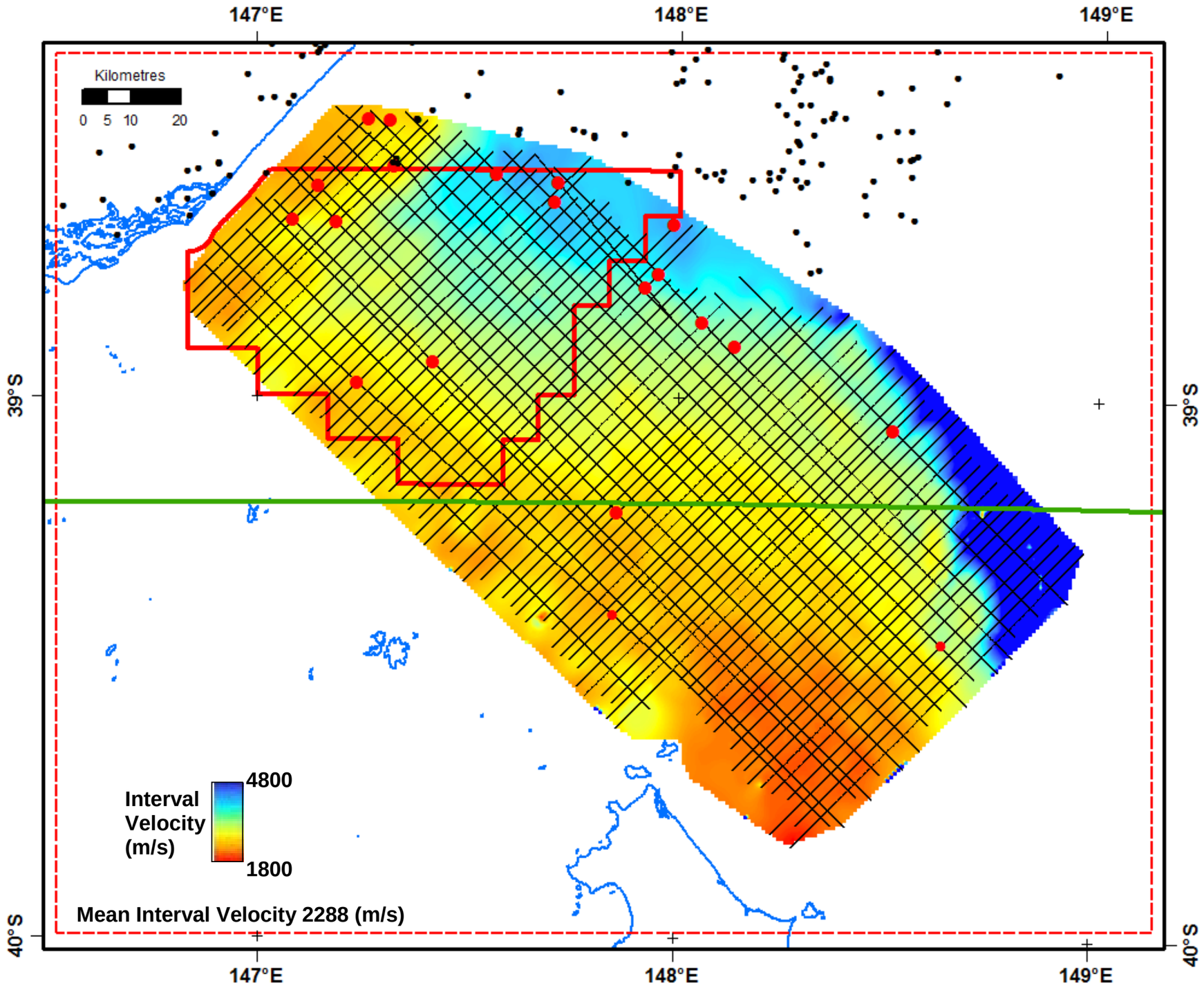


Figure A7.2. Variation of interval velocity for FrOG Tech 01 Seafloor to FrOG Tech 03 Top Bassian Rise Unit 3.

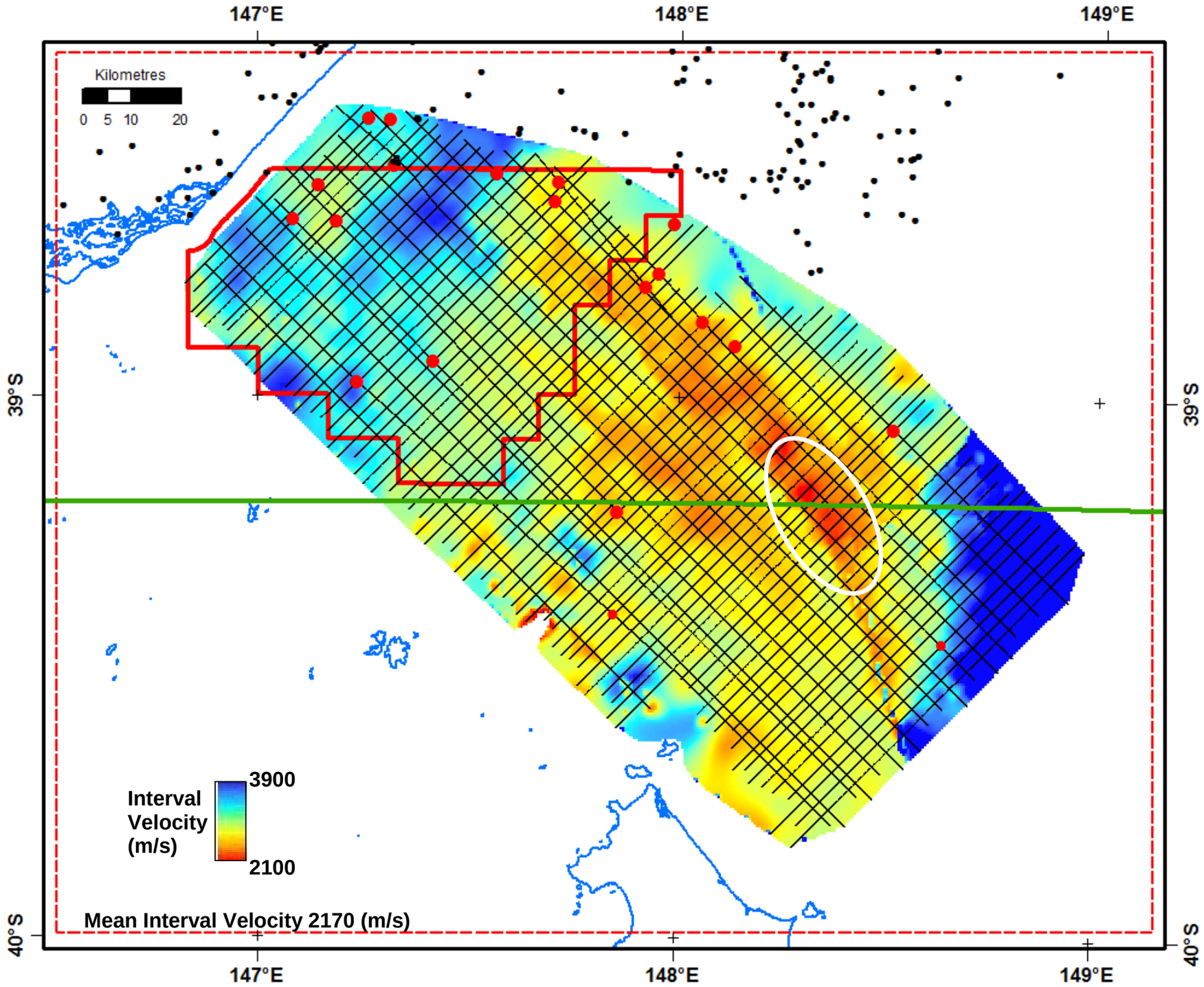


Figure A7.3. Variation of interval velocity for FrOG Tech 03 Top Bassian Rise Unit 3 to FrOG Tech 06 Top Early Oligocene Wedge. The low velocity areas (circled) are where the 06 horizon does not exist, so the isopach is artificially thick. These areas were clipped from the final grid.

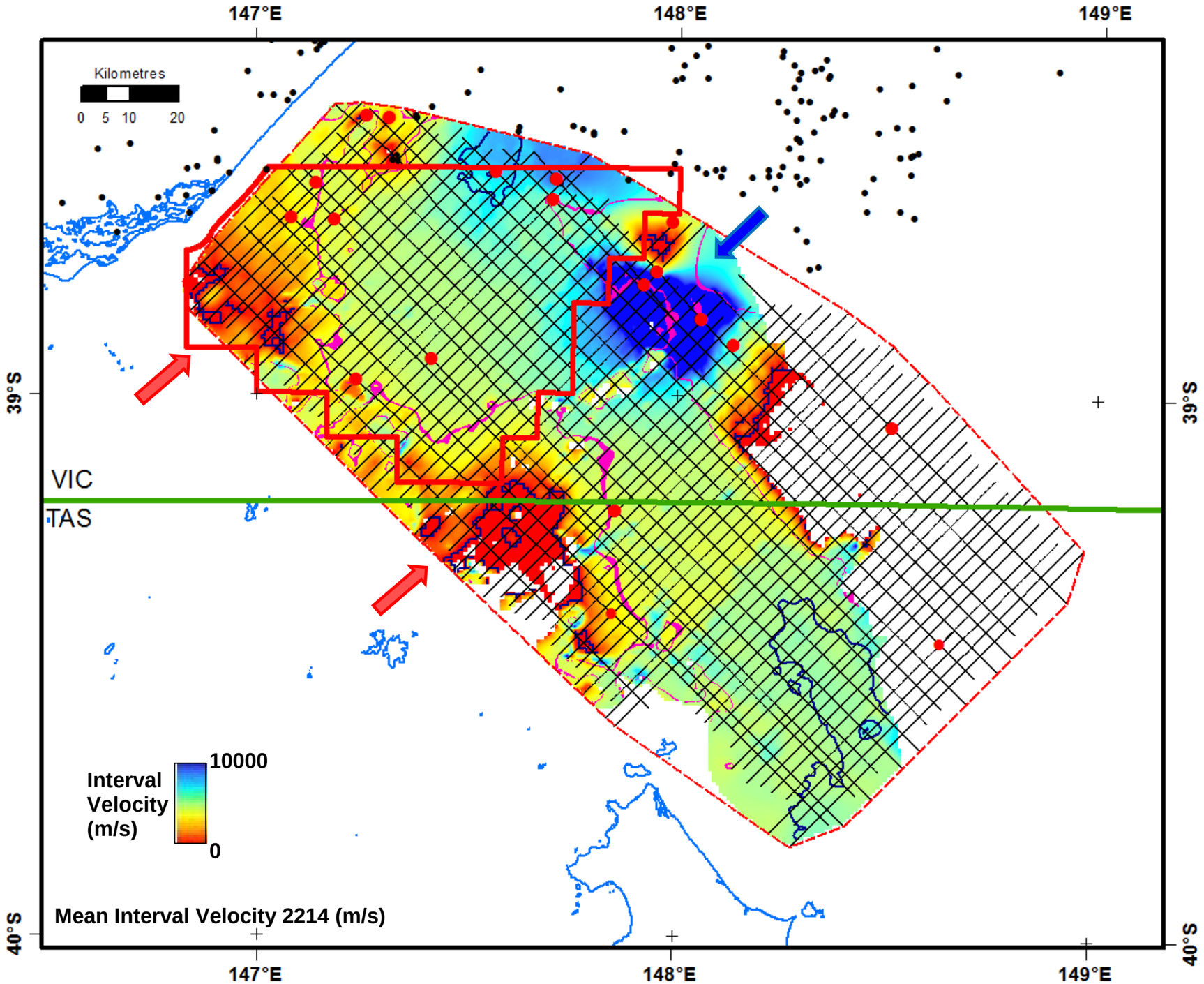


Figure A7.4. Variation of interval velocity for FrOG Tech 06 Top Early Oligocene Wedge to base EOW (composite horizon). Note that the anomalously low (<1750 m/s; red arrows) and high (>6500 m/s; blue arrow) interval velocity values generally occur where the interval thickness is less than 60 m (pink line). The interval reaches up to 80 m thick in the anomalously high (>6500 m/s) region.

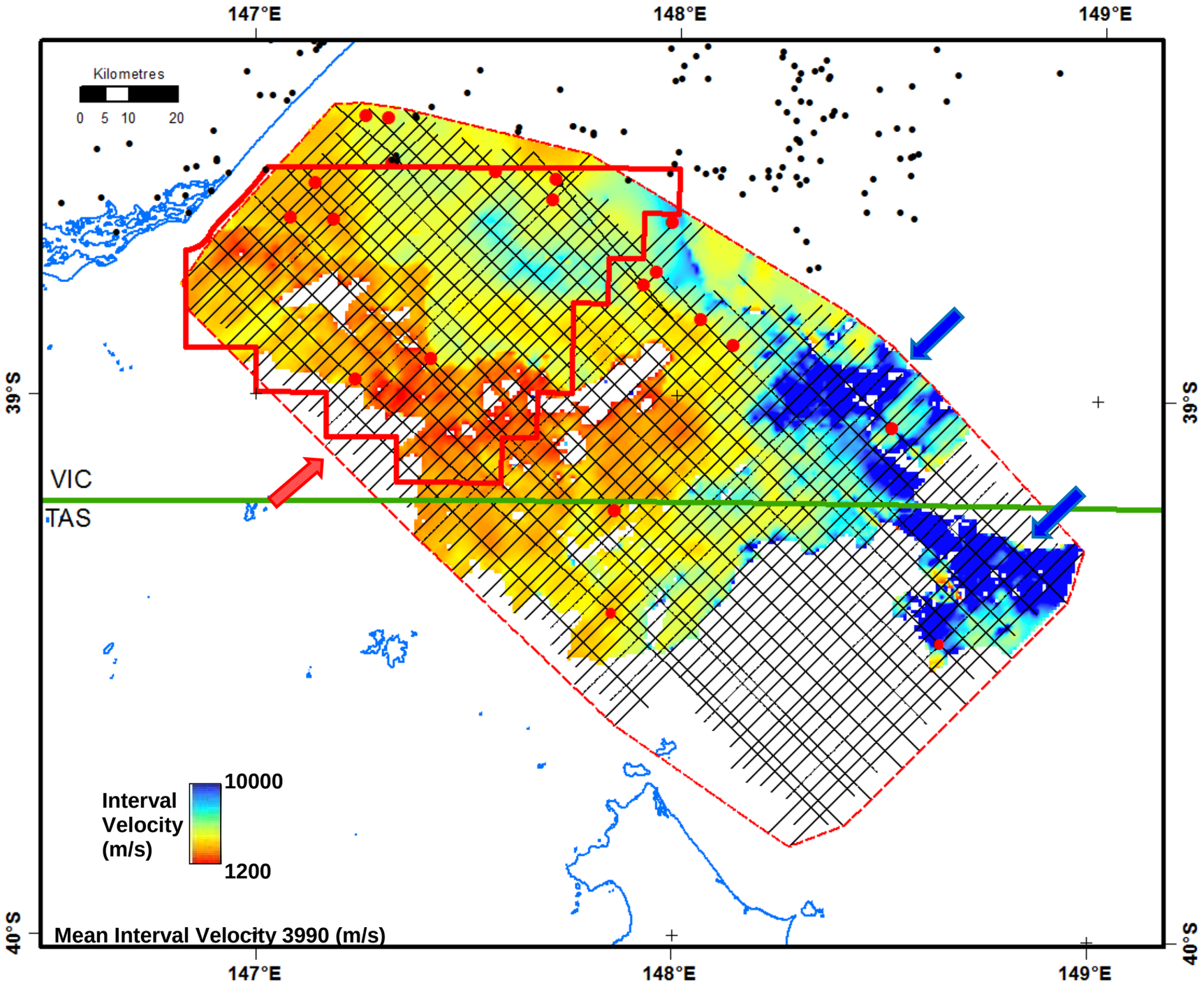


Figure A7.5. Variation of interval velocity for FrOG Tech 07 Top Latrobe Group to base Cobia (composite horizon). Note that the anomalously low (<1750 m/s; red arrow) interval velocity values generally occur where the interval thickness is less than 25 m. The interval reaches up to 120 m thick in the anomalously high (>6500 m/s; blue arrows) region.

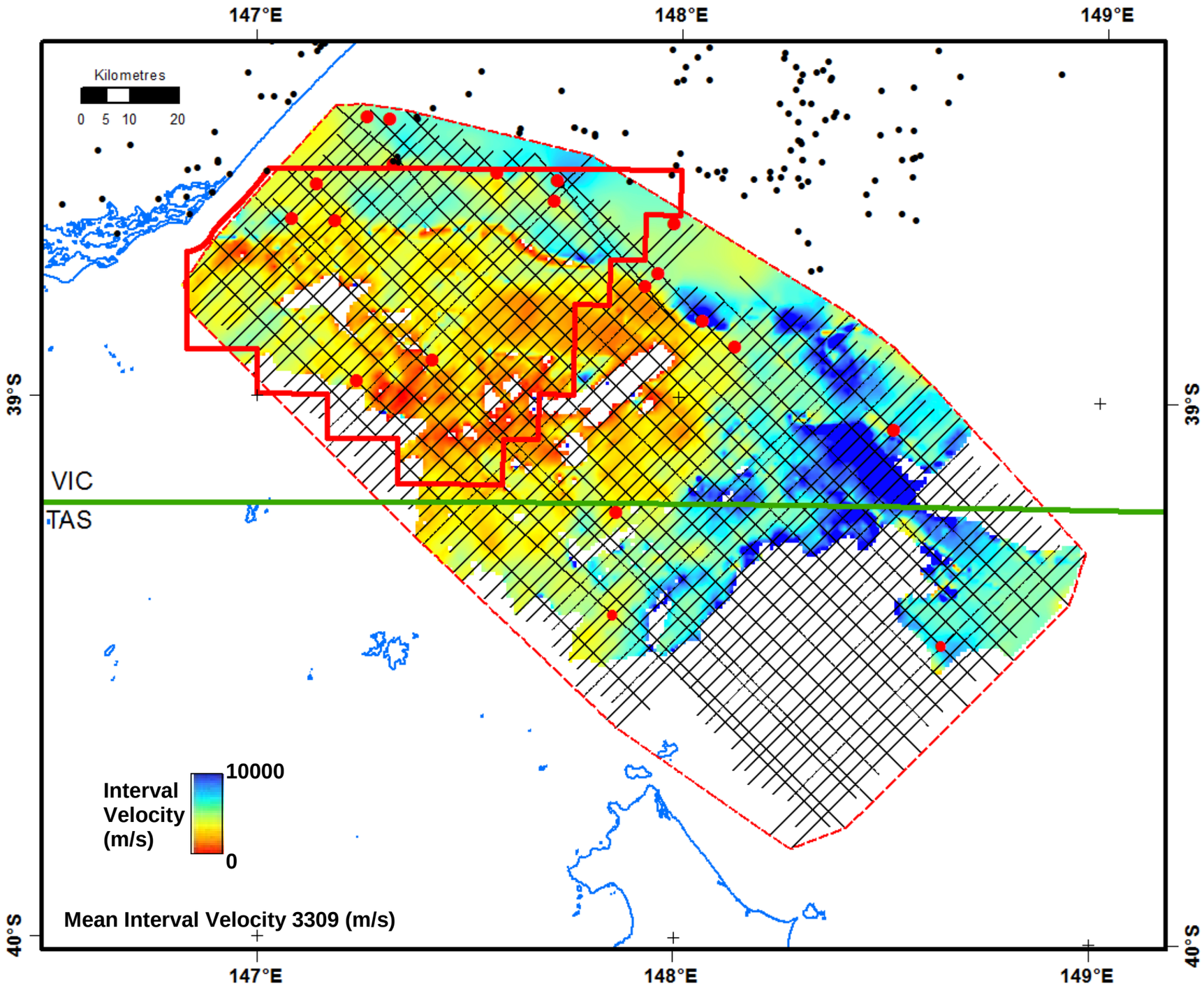


Figure A7.6. Variation of interval velocity for FrOG Tech 07 Top Latrobe Group to base Latrobe (composite horizon). Compared with the Cobia Formation only interval velocity map in Figure A7.5 note that the areas of anomalously low (<1750 m/s; red arrow, previous page) and anomalously high (>6500 m/s; blue arrows, previous page) interval velocity values are reduced in size.

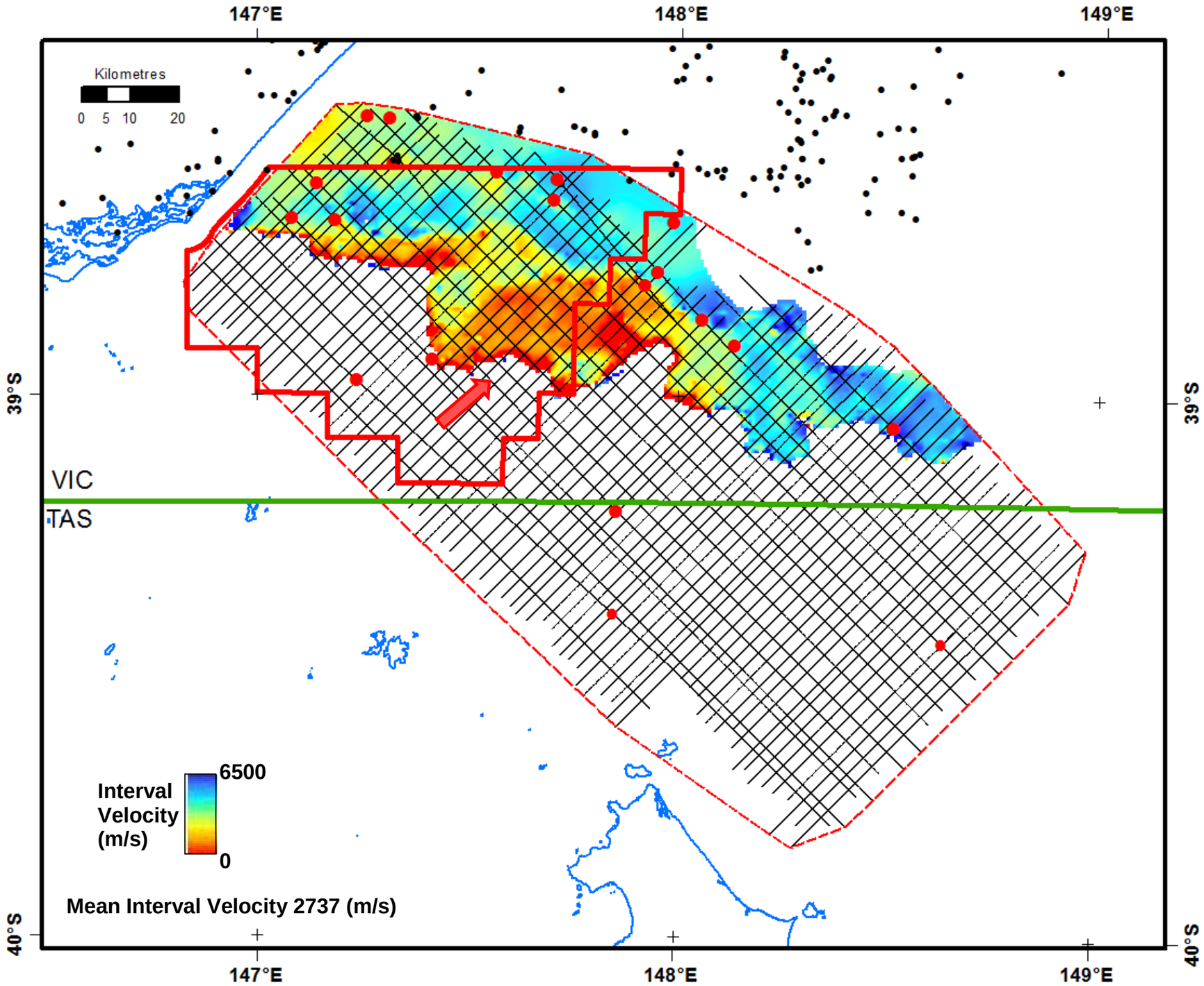


Figure A7.7. Variation of interval velocity for FrOG Tech 08 Top Halibut Subgroup to base Golden Beach (composite horizon). Note that the anomalously low (<1750 m/s; red arrow) interval velocity values generally occur where the interval thickness is less than 75 m, and/or around the edges of the grid.

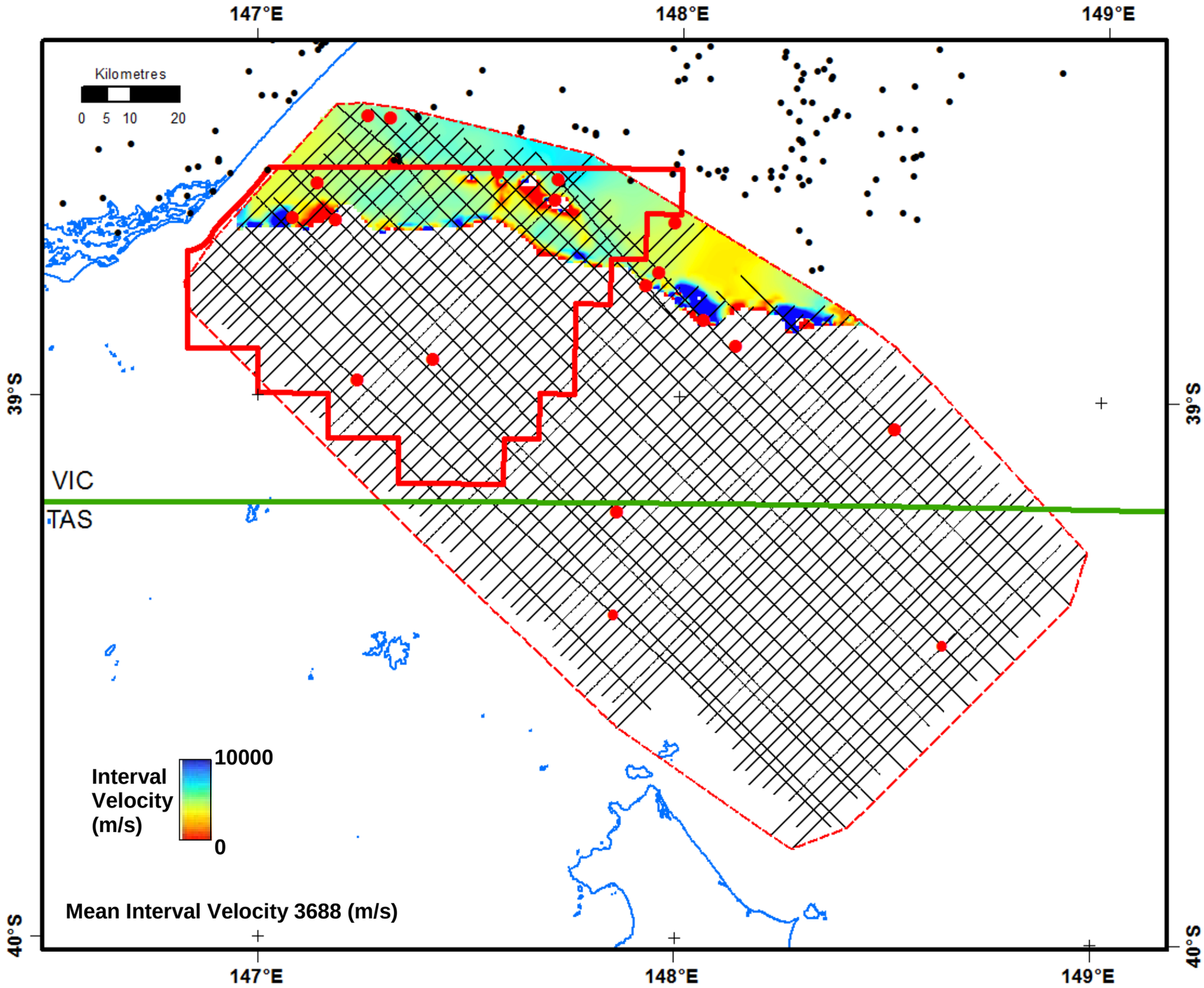


Figure A7.8. Variation of interval velocity for FrOG Tech 10 Top Emperor Subgroup to base Latrobe (composite horizon). Note that the anomalously low (<1750 m/s) and high (>6500 m/s) interval velocity values occur where the Emperor Subgroup is not interpreted confidently (or at all) within fault slivers north of the Foster Fault System (see Figure 6.8).

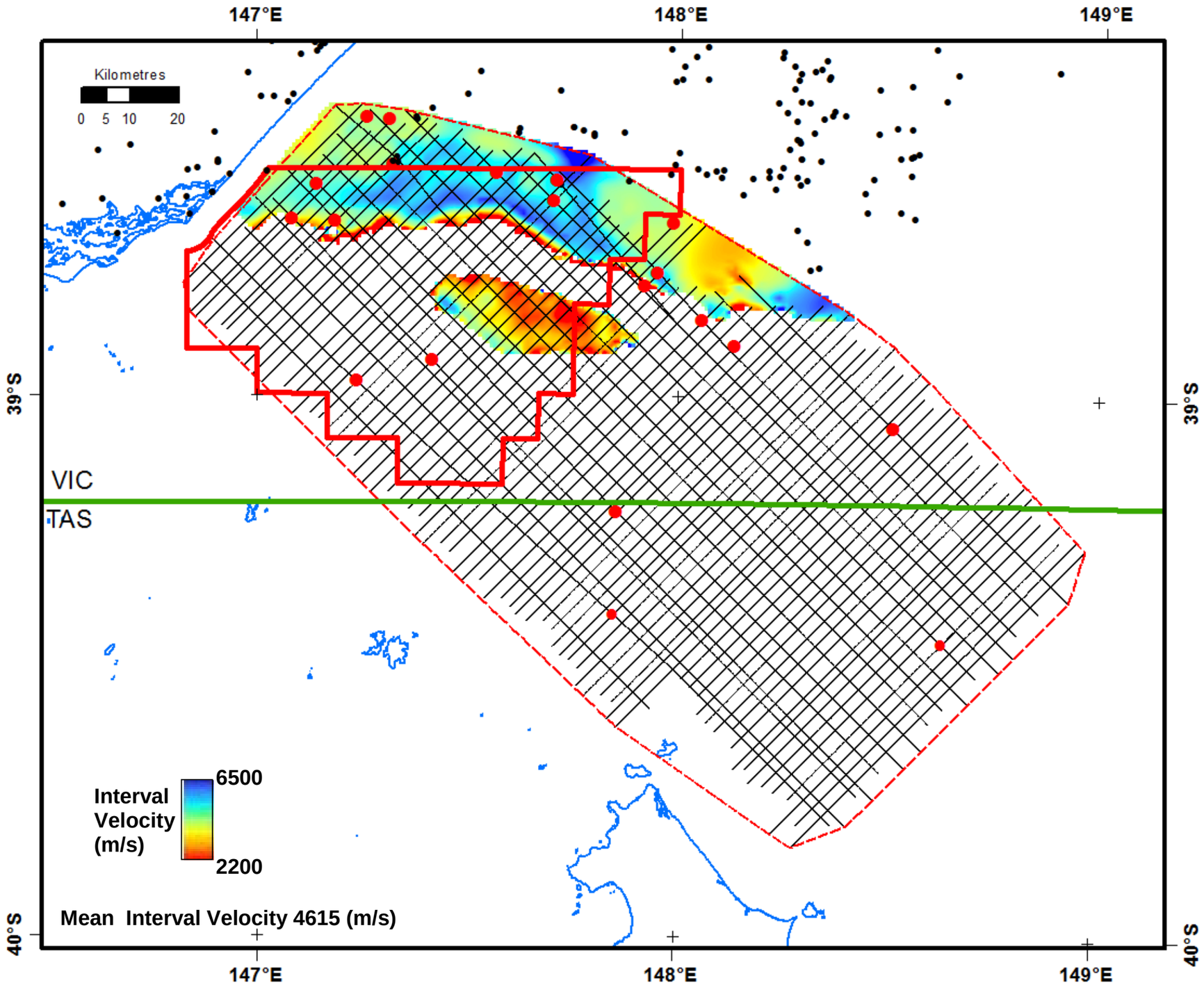


Figure A7.9. Variation of interval velocity for FrOG Tech 11 Top Strzelecki Group to FrOG Tech 13 Top Basement.

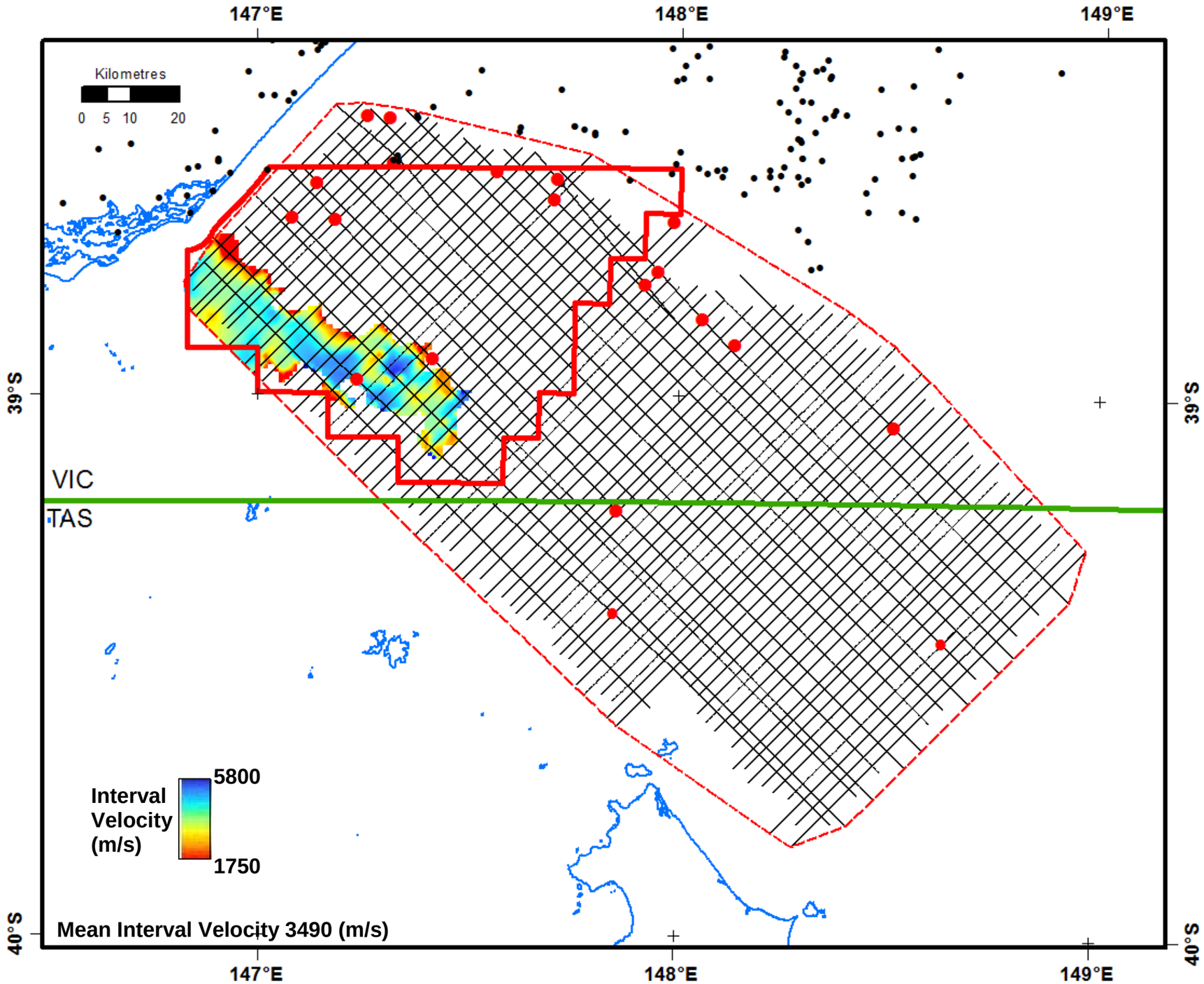


Figure A7.10. Variation of interval velocity for FrOG Tech 12 Top Pre-Strzelecki Group to FrOG Tech 13 Top Basement.

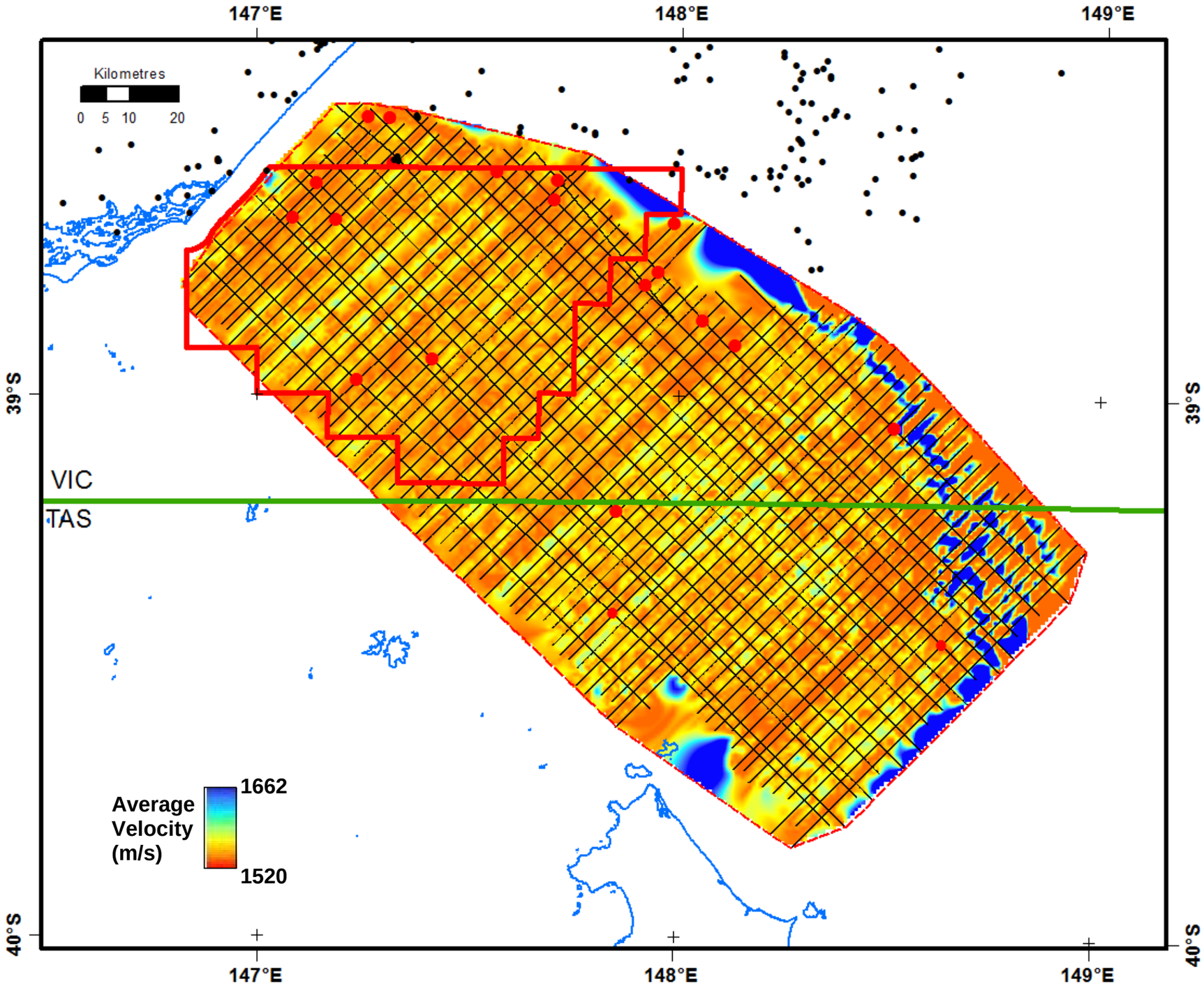


Figure A7.11. Variation of average velocity for FrOG Tech 01 Seafloor.

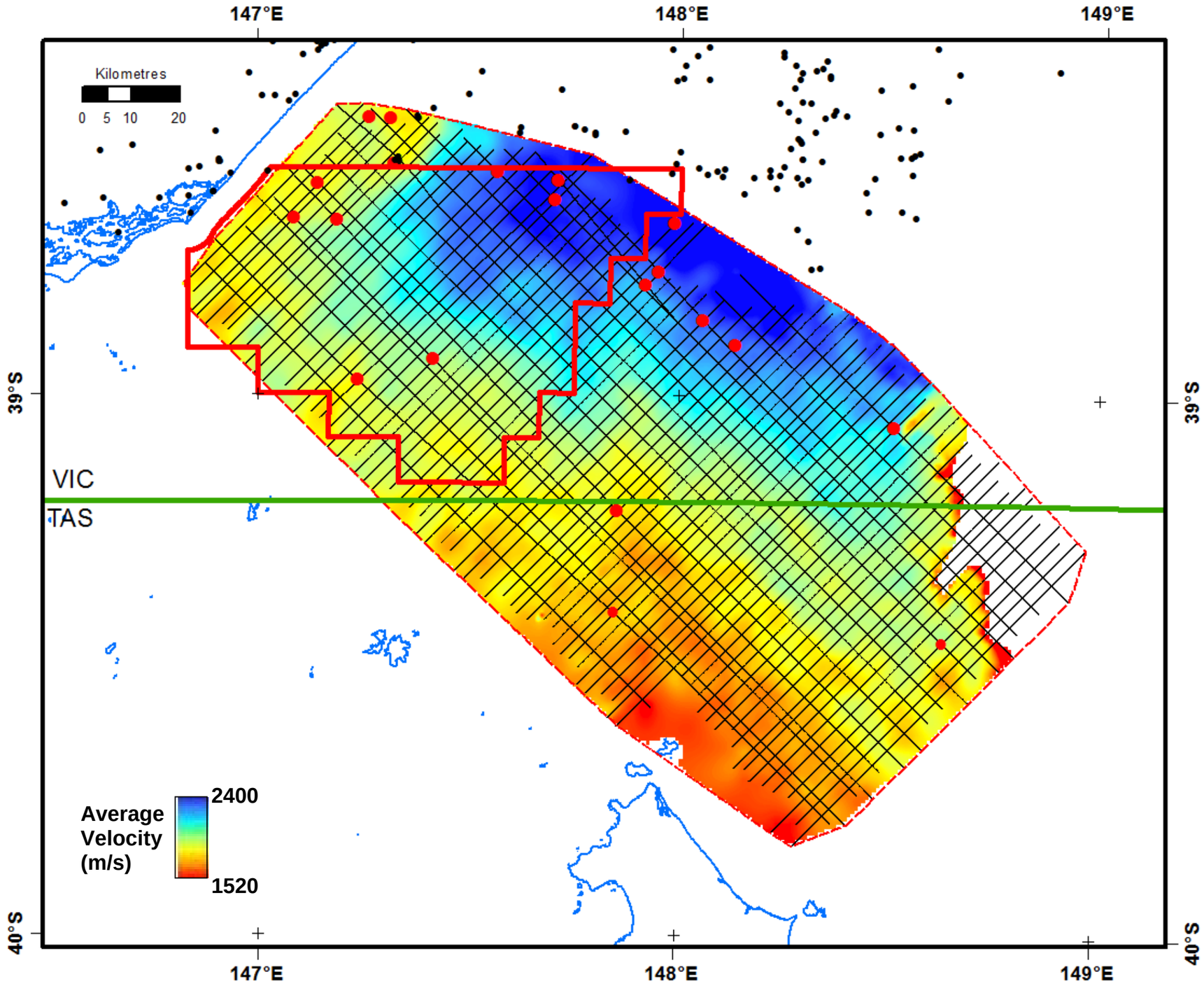


Figure A7.12. Variation of average velocity for FrOG Tech 02 Near Top Bassian Rise Unit 2.

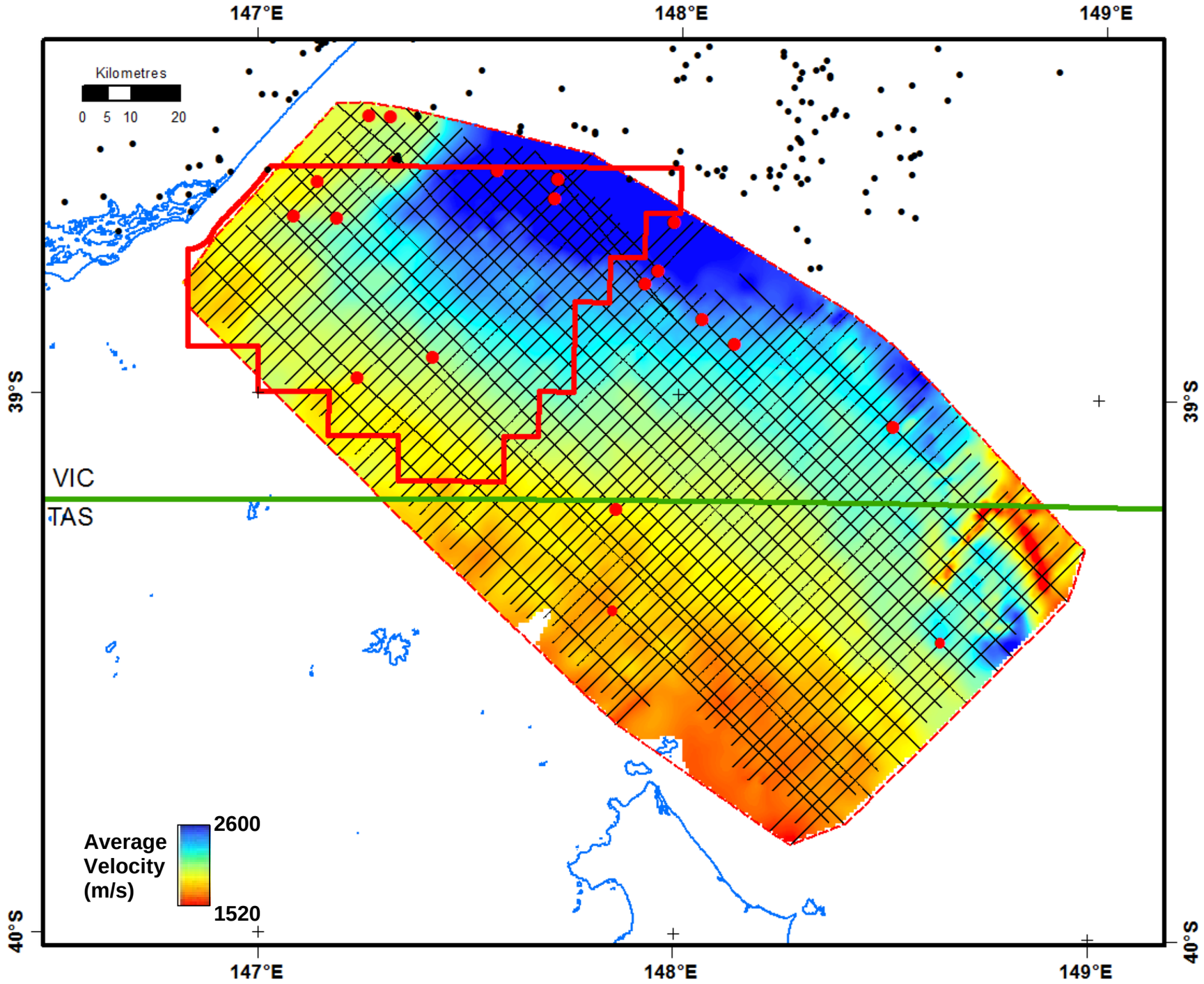


Figure A7.13. Variation of average velocity for FrOG Tech 03 Top Bassian Rise Unit 3.

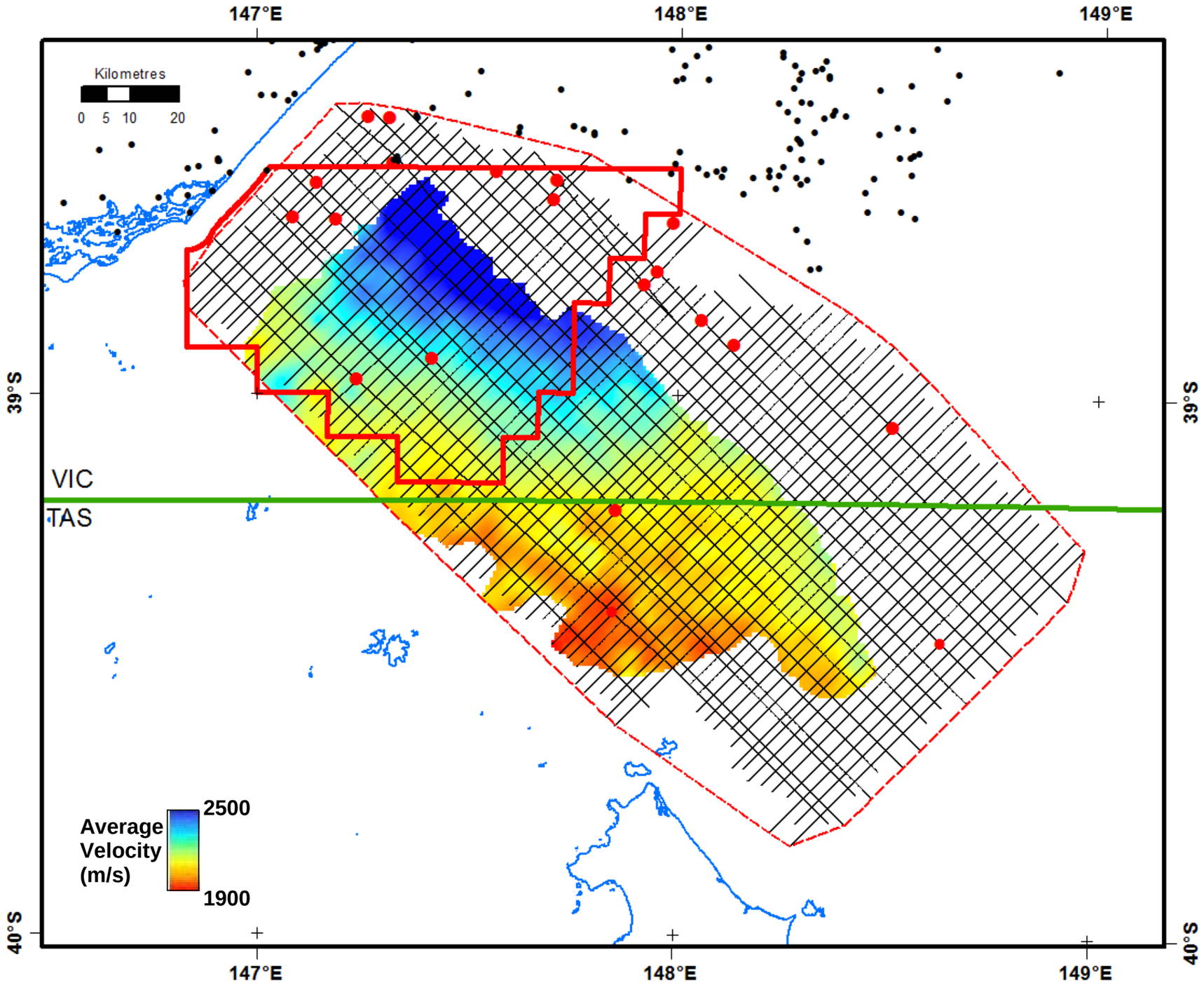


Figure A7.14. Variation of average velocity for FrOG Tech 04 Top Bassian Rise Unit 4.

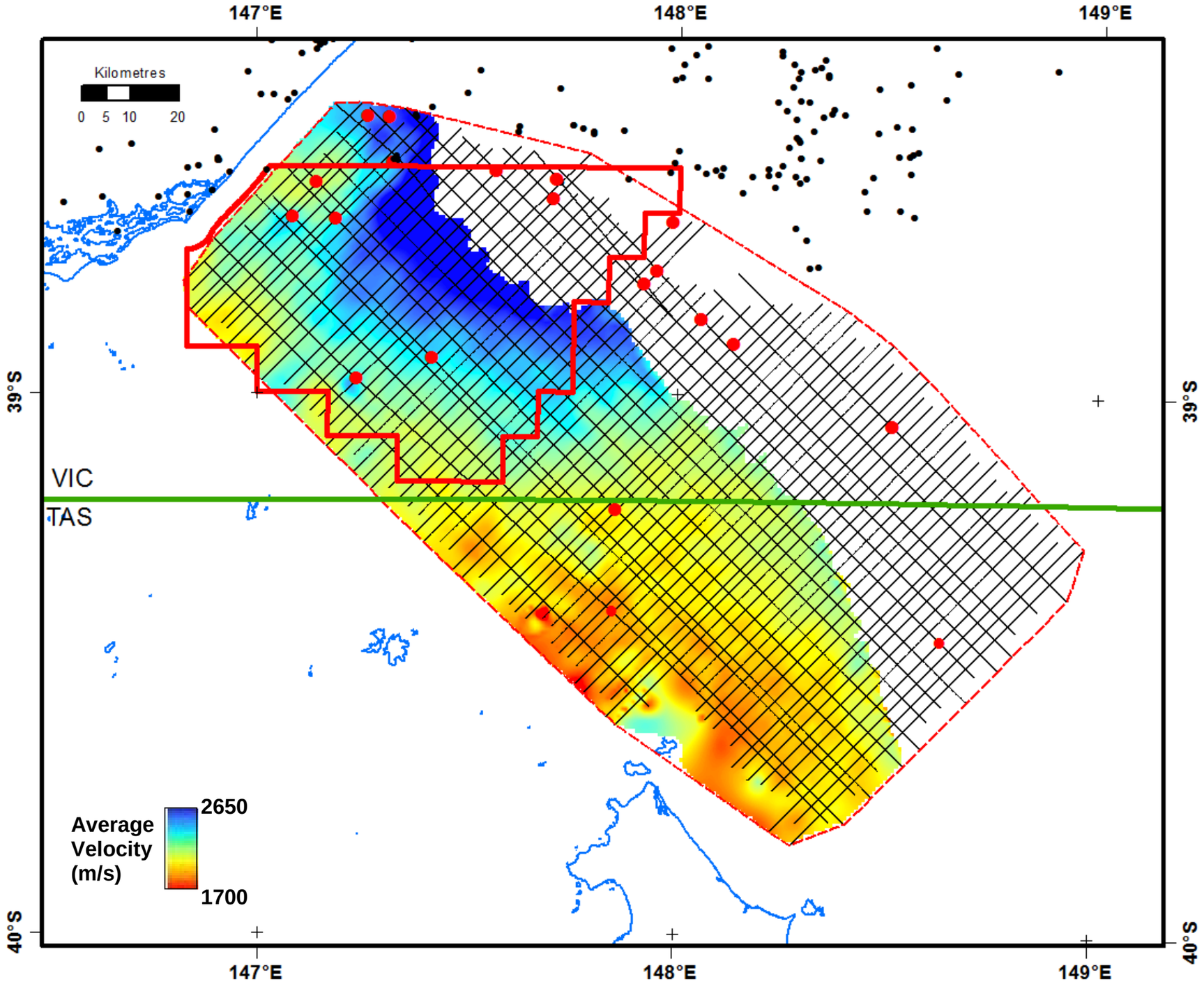


Figure A7.15. Variation of average velocity for FrOG Tech 05 Top Bassian Rise Unit 5.

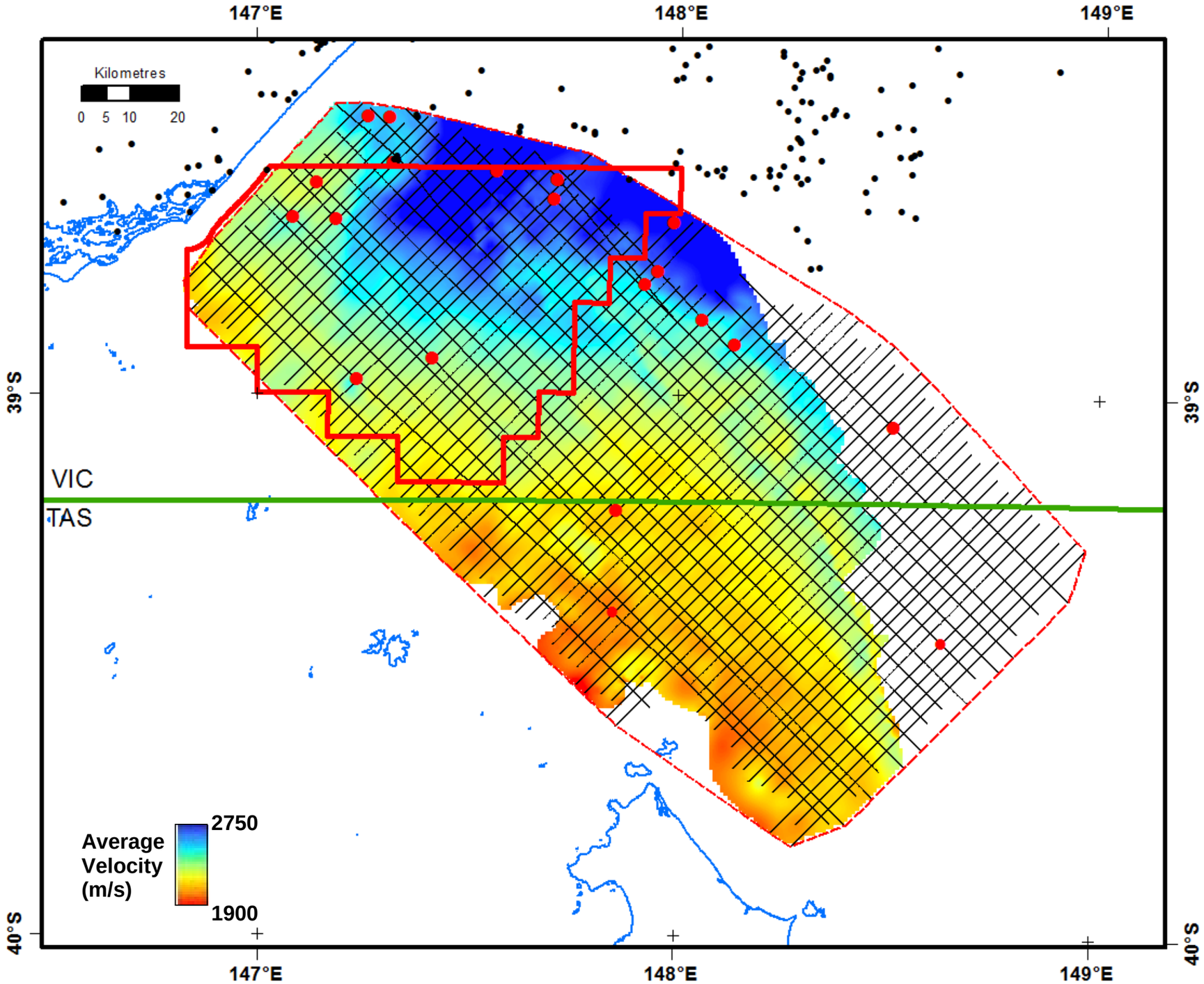


Figure A7.16. Variation of average velocity for FrOG Tech 06 Top Early Oligocene Wedge.

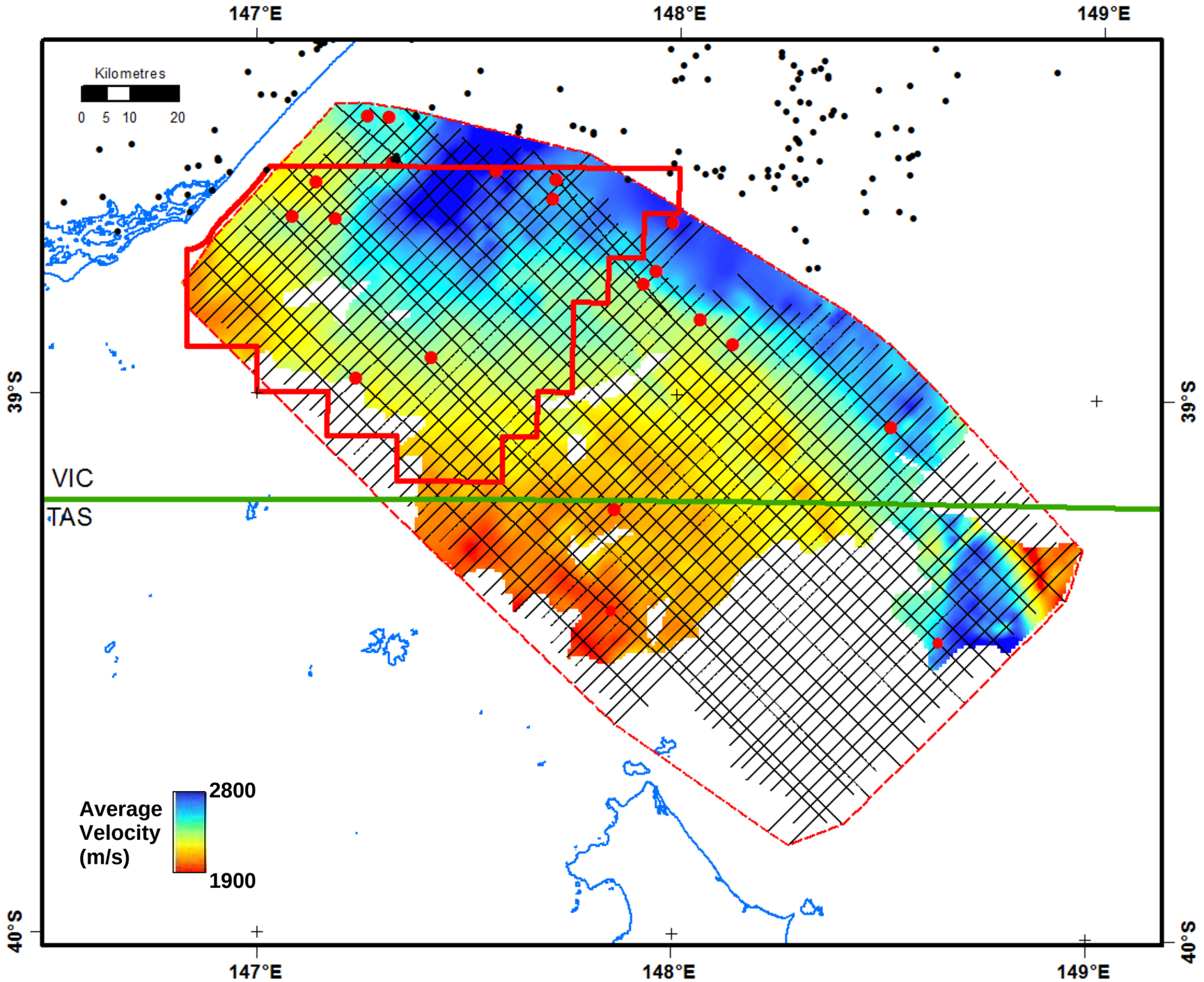


Figure A7.17. Variation of average velocity for FrOG Tech 07 Top Latrobe Group.

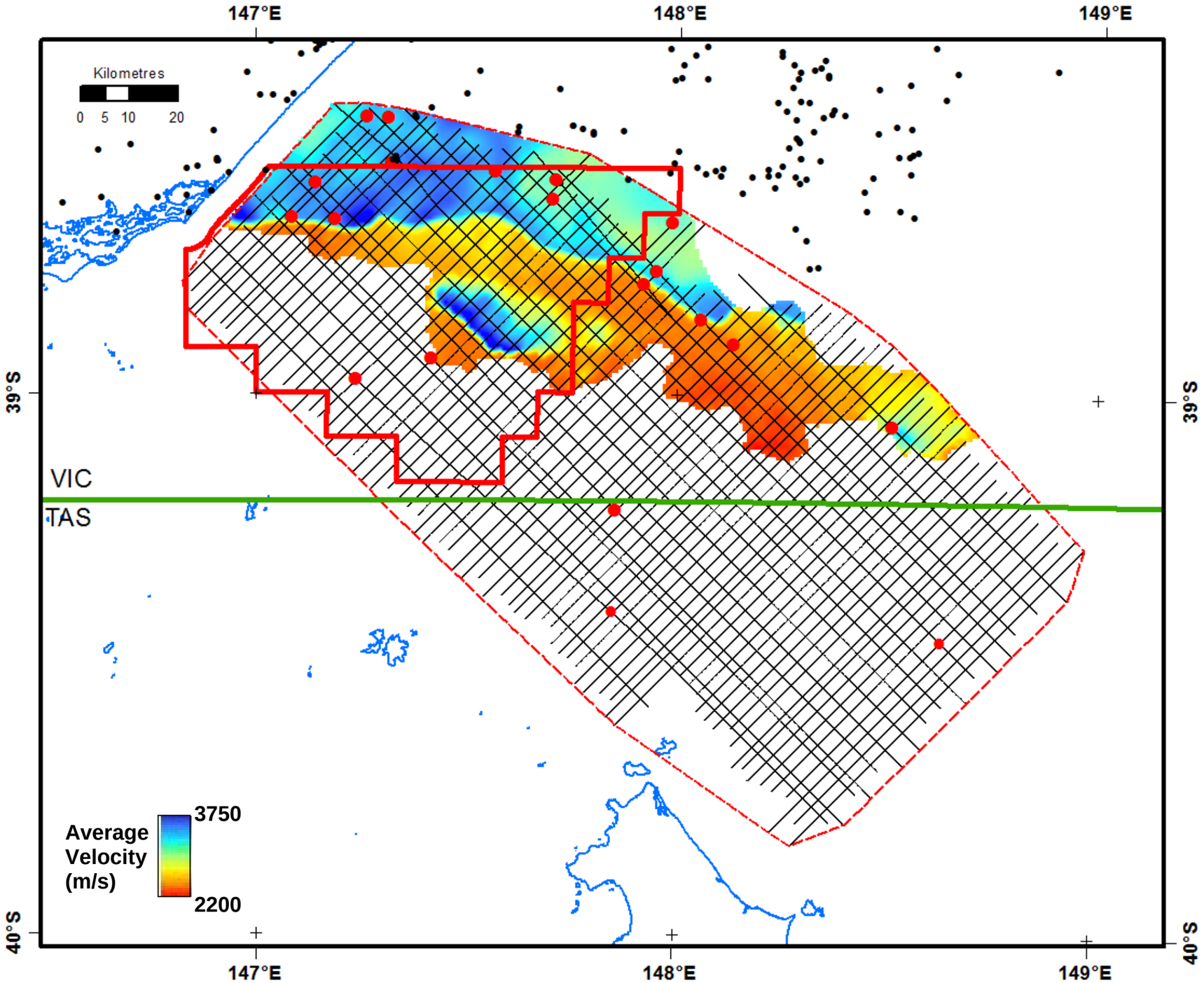


Figure A7.18. Variation of average velocity for FrOG Tech 08 Top Halibut Subgroup.

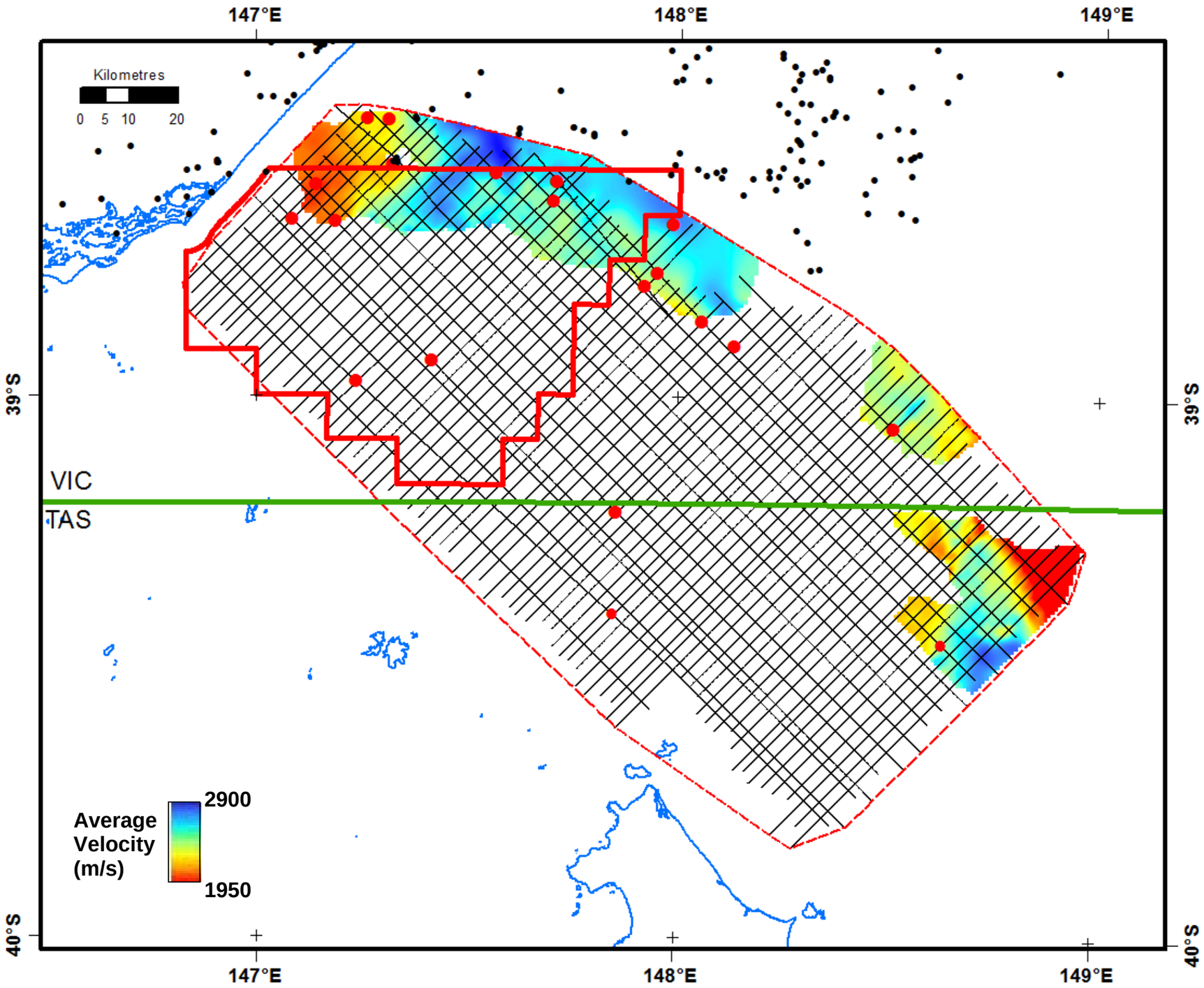


Figure A7.19. Variation of average velocity for FrOG Tech 09 Top Golden Beach Subgroup.

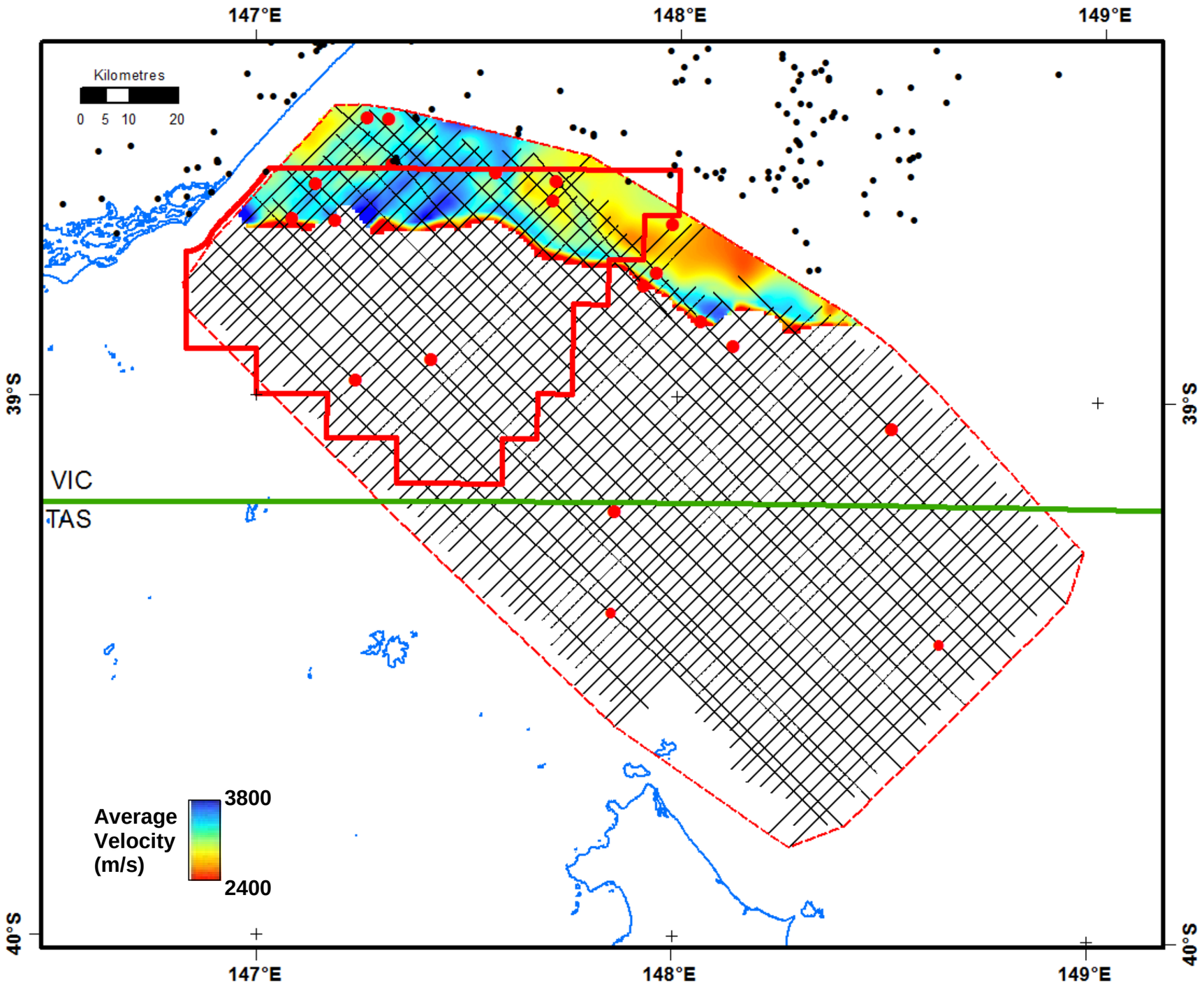


Figure A7.20. Variation of average velocity for FrOG Tech 10 Top Emperor Subgroup.

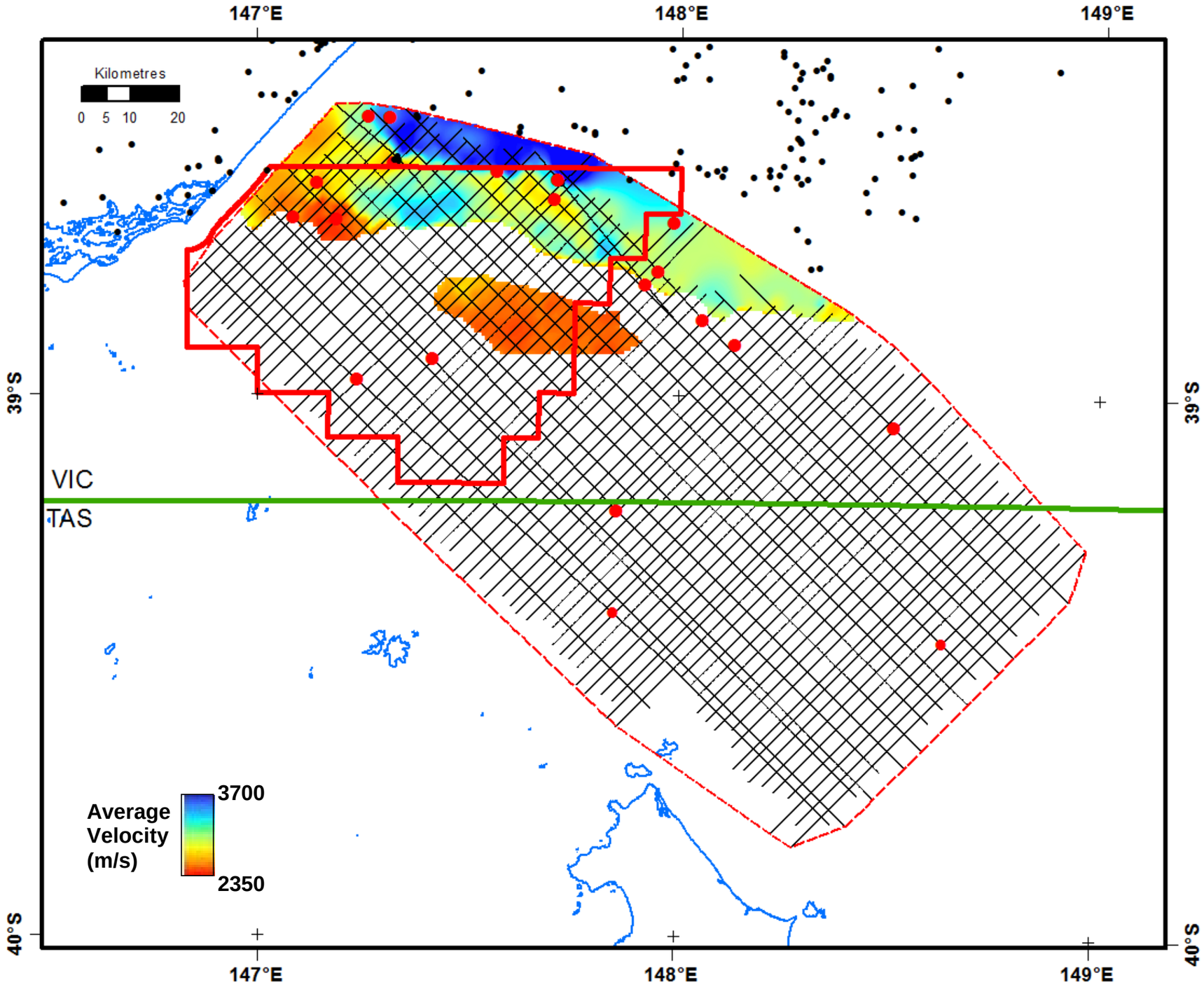


Figure A7.21. Variation of average velocity for FrOG Tech 11 Top Strzelecki Group.

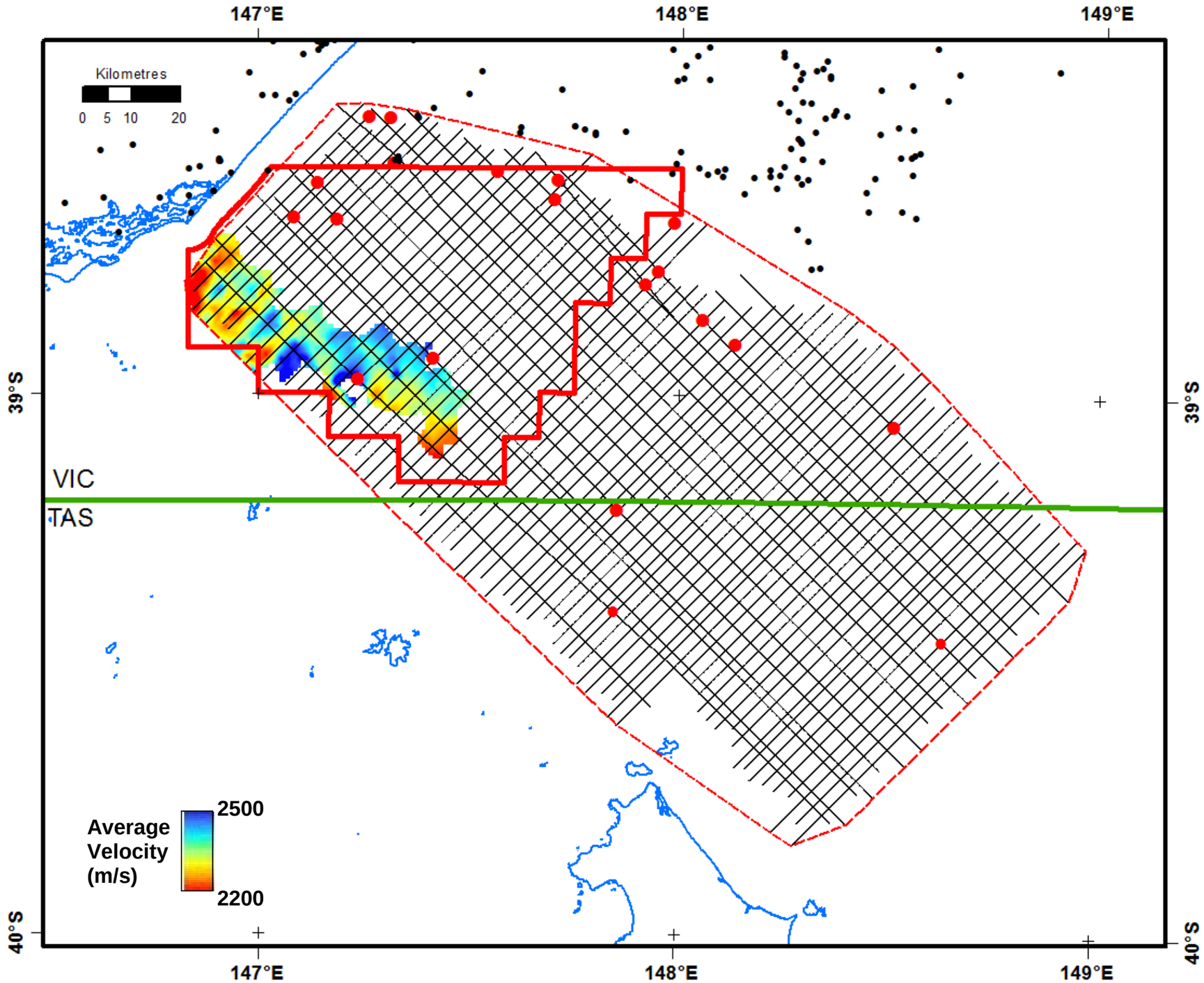


Figure A7.22. Variation of average velocity for FrOG Tech 12 Top Pre-Strzelecki Group.

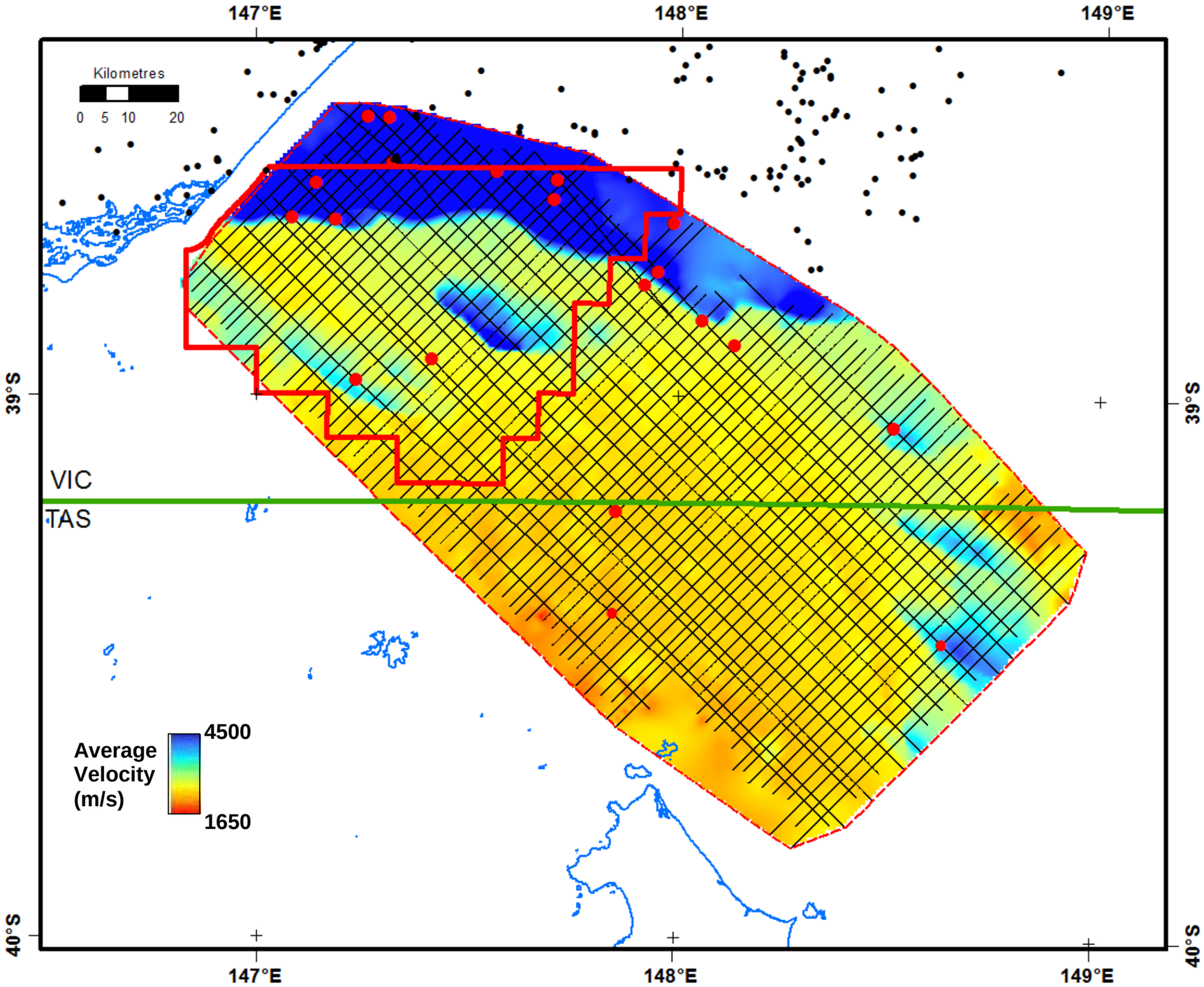


Figure A7.23. Variation of average velocity for FrOG Tech 13 Top Basement.

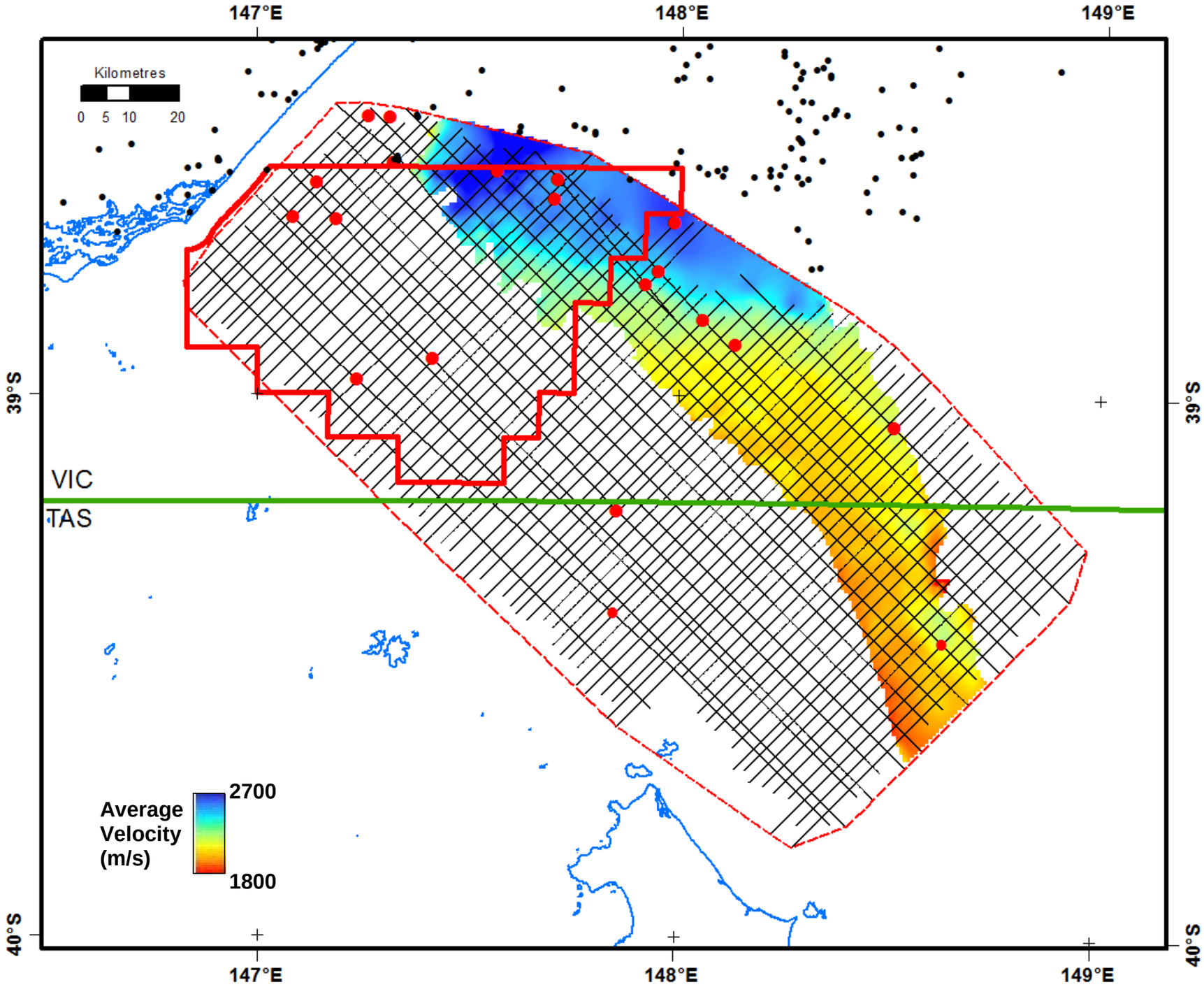


Figure A7.24. Variation of average velocity for FrOG Tech C06 Slump Container.

Appendix 8
Interpreted and Uninterpreted Seismic Sections

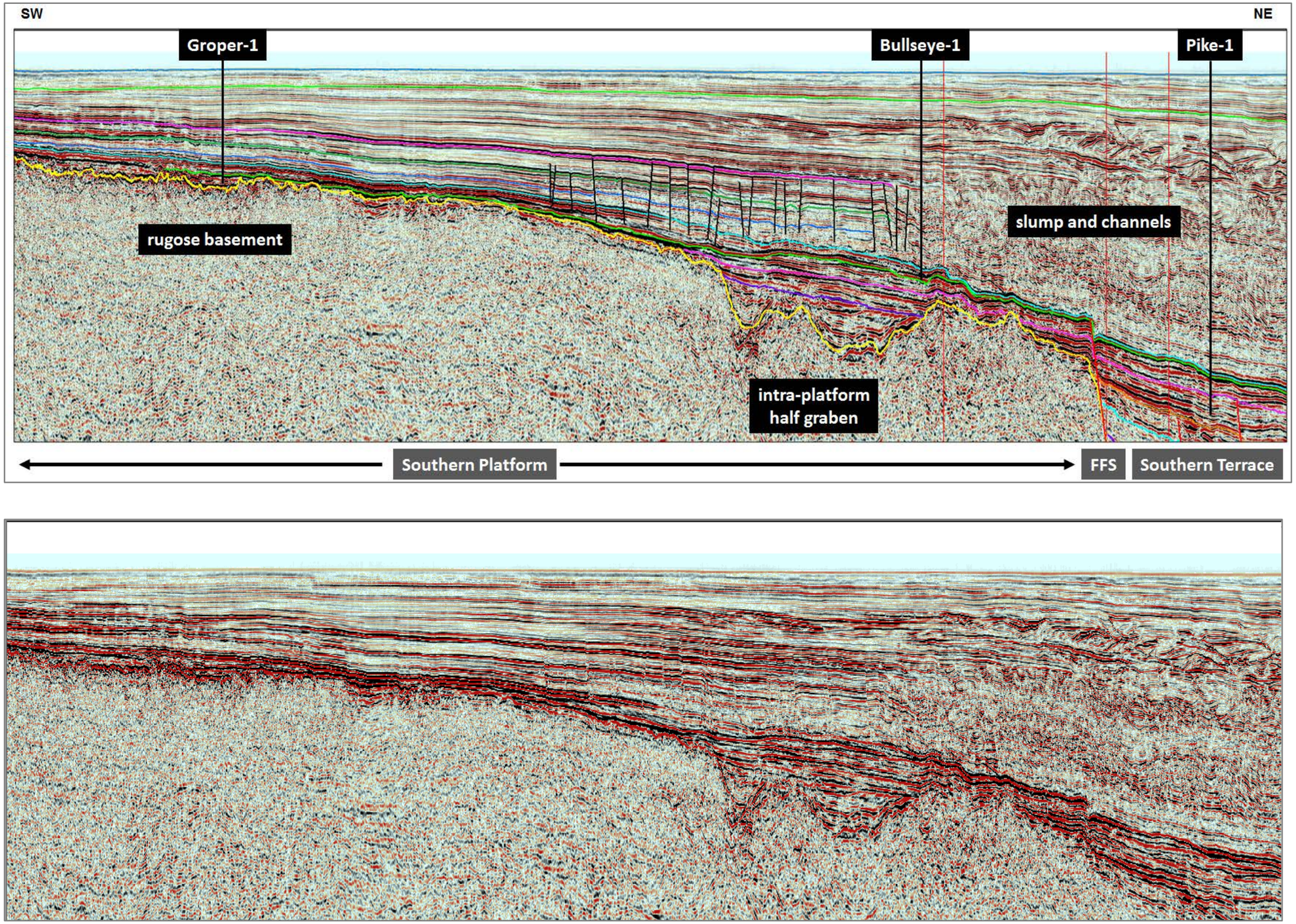
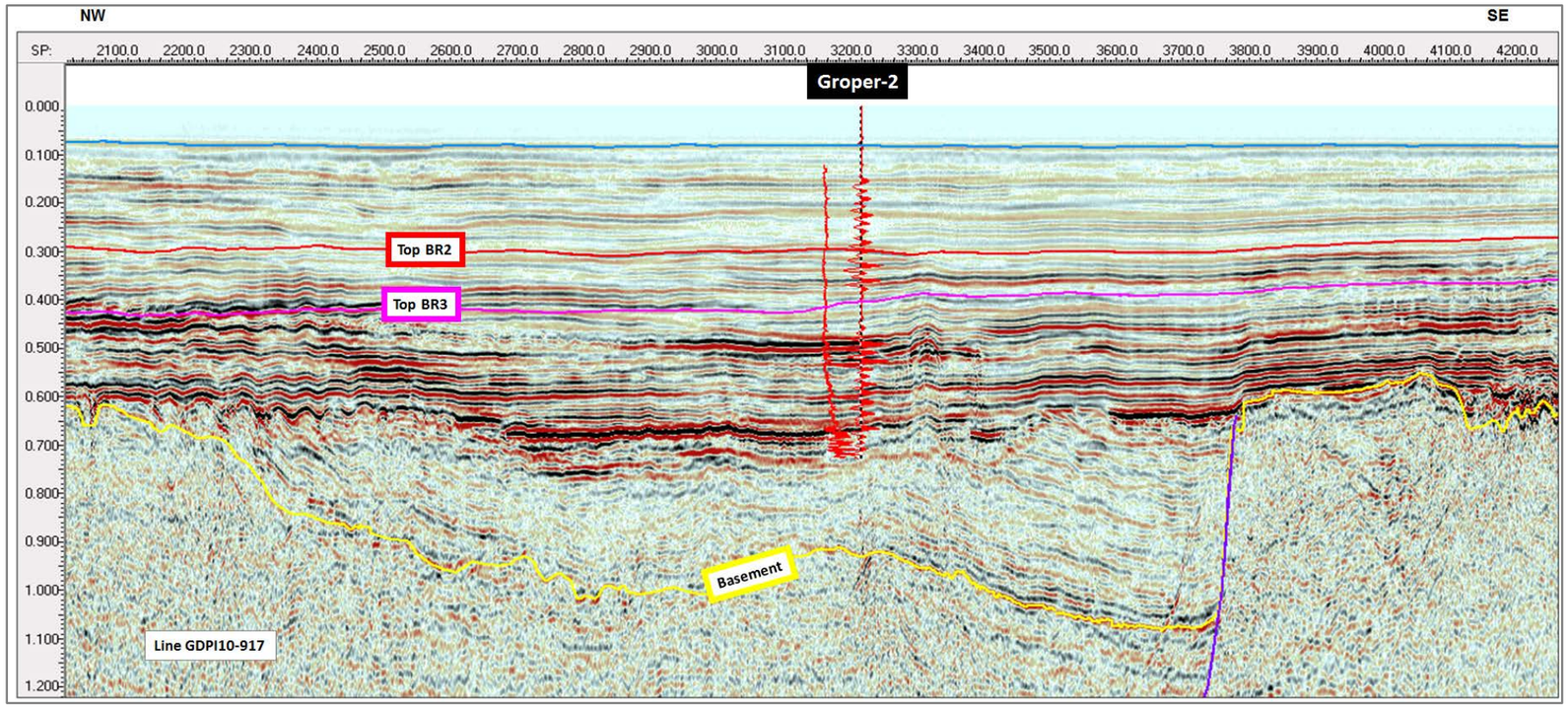

SW
NE
Groper-1
Bullseye-1
Pike-1
rugose basement
slump and channels
intra-platform
half graben
Southern Platform
FFS
Southern Terrace

Figure 5.2


NW
SE
SP:
2100.0
2200.0
2300.0
2400.0
2500.0
2600.0
2700.0
2800.0
2900.0
3000.0
3100.0
3200.0
3300.0
3400.0
3500.0
3600.0
3700.0
3800.0
3900.0
4000.0
4100.0
4200.0
Groper-2
0.000
0.100
0.200
0.300
0.400
0.500
0.600
0.700
0.800
0.900
1.000
1.100
1.200
Top BR2
Top BR3
Basement
Line GDPI10-917

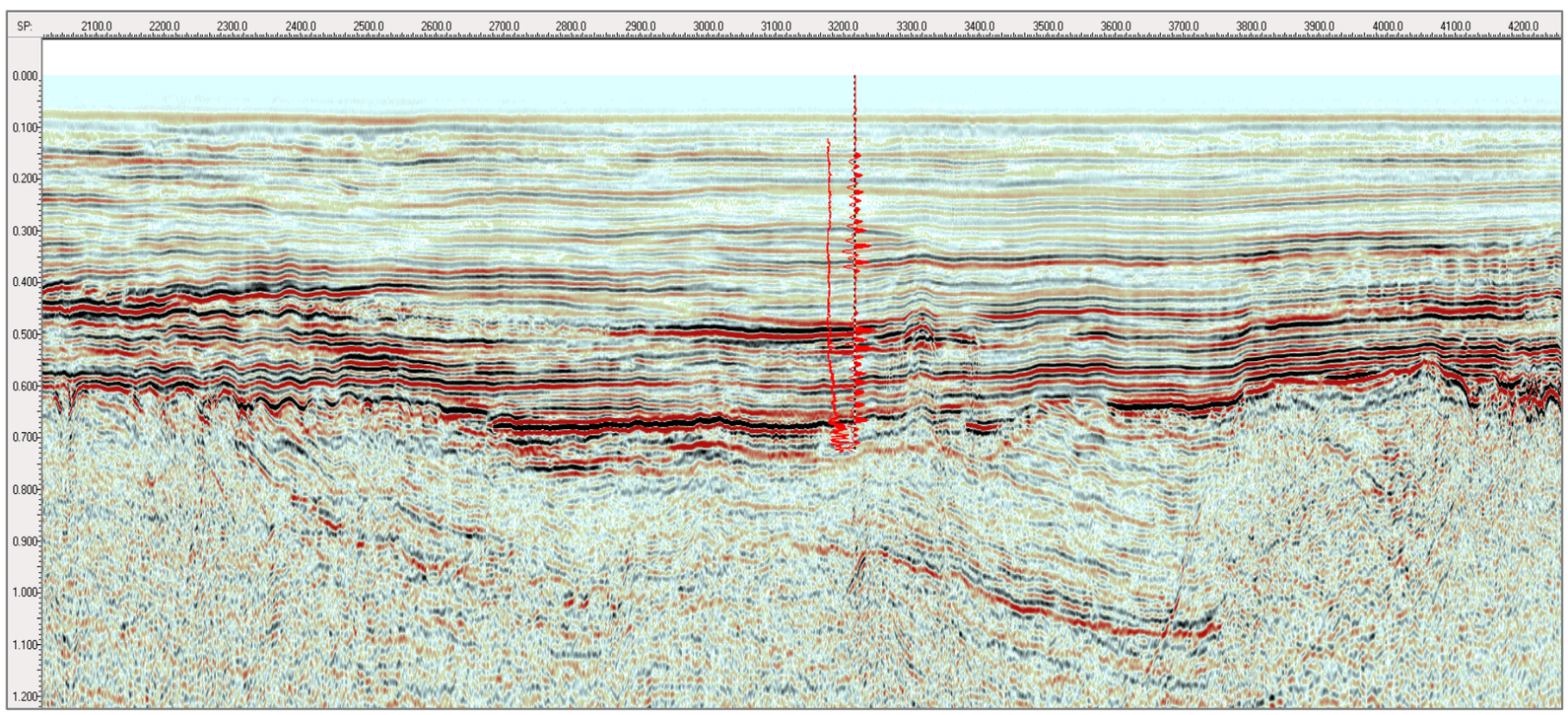

SP:
2100.0
2200.0
2300.0
2400.0
2500.0
2600.0
2700.0
2800.0
2900.0
3000.0
3100.0
3200.0
3300.0
3400.0
3500.0
3600.0
3700.0
3800.0
3900.0
4000.0
4100.0
4200.0
0.000
0.100
0.200
0.300
0.400
0.500
0.600
0.700
0.800
0.900
1.000
1.100
1.200

Figure 5.8

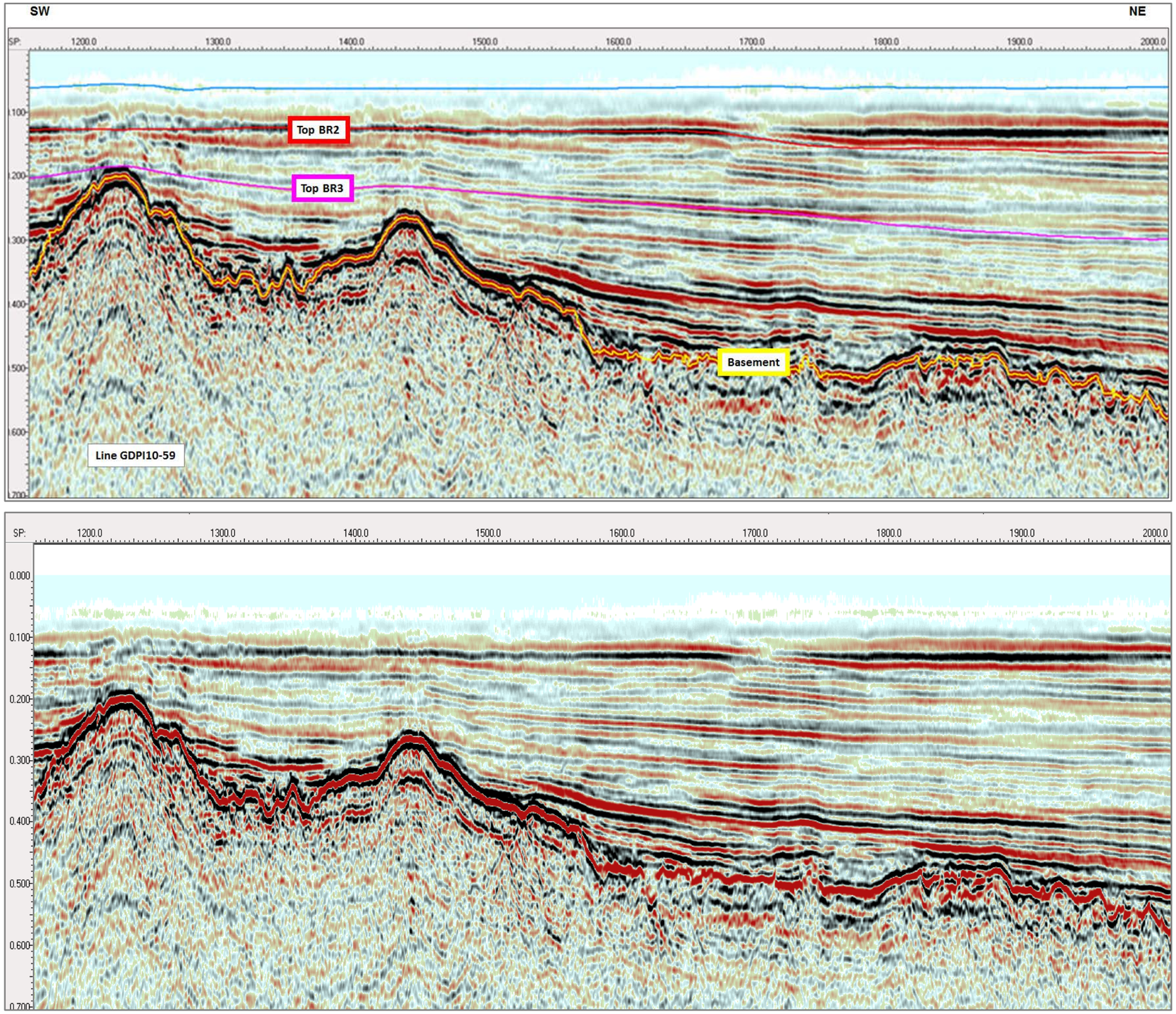
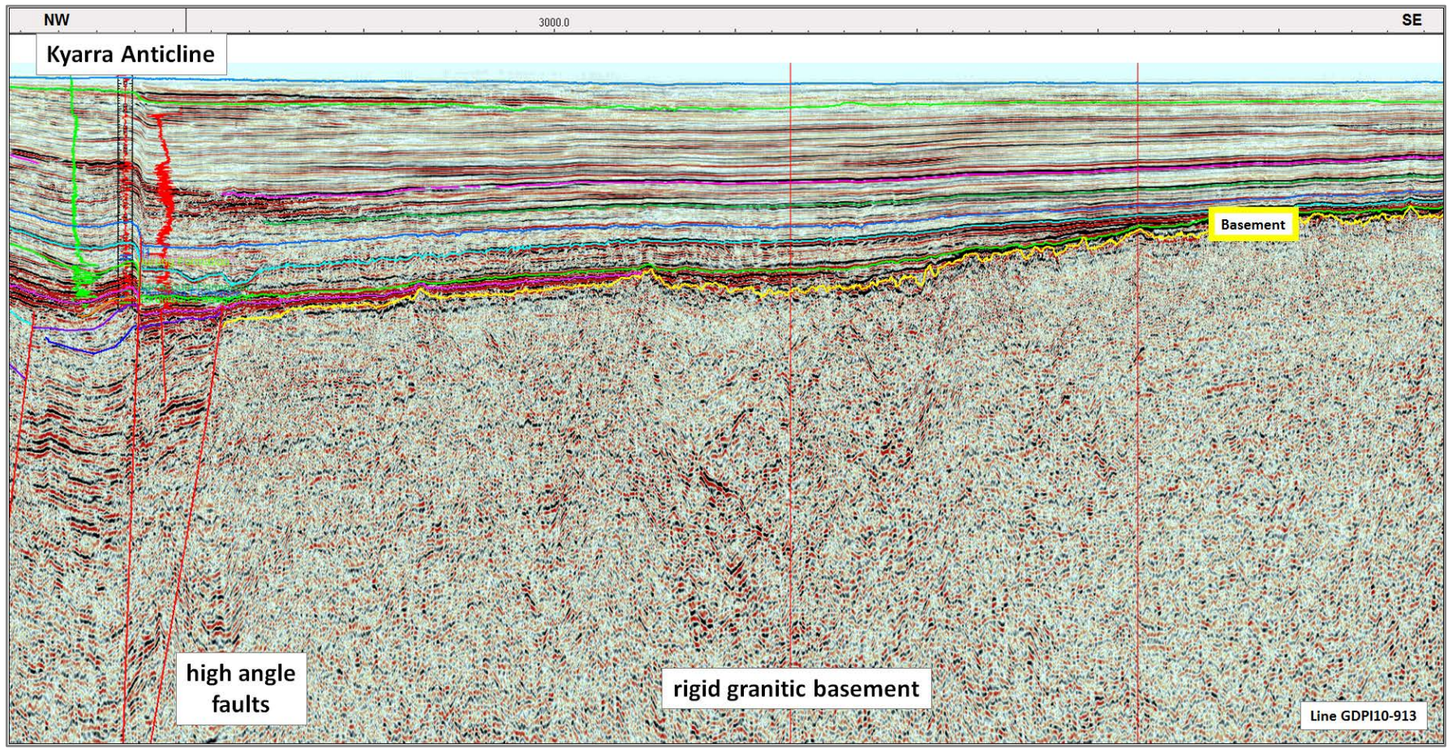

SW
NE
SP:
1200.0
1300.0
1400.0
1500.0
1600.0
1700.0
1800.0
1900.0
2000.0
100
200
300
400
500
600
700
Top BR2
Top BR3
Basement
Line GDPI10-59
0.000
0.100
0.200
0.300
0.400
0.500
0.600
0.700

Figure 5.10

Figure 5.11


NW
3000.0
SE
Kyarra Anticline
Basement
high angle faults
rigid granitic basement
Line GDPI10-913

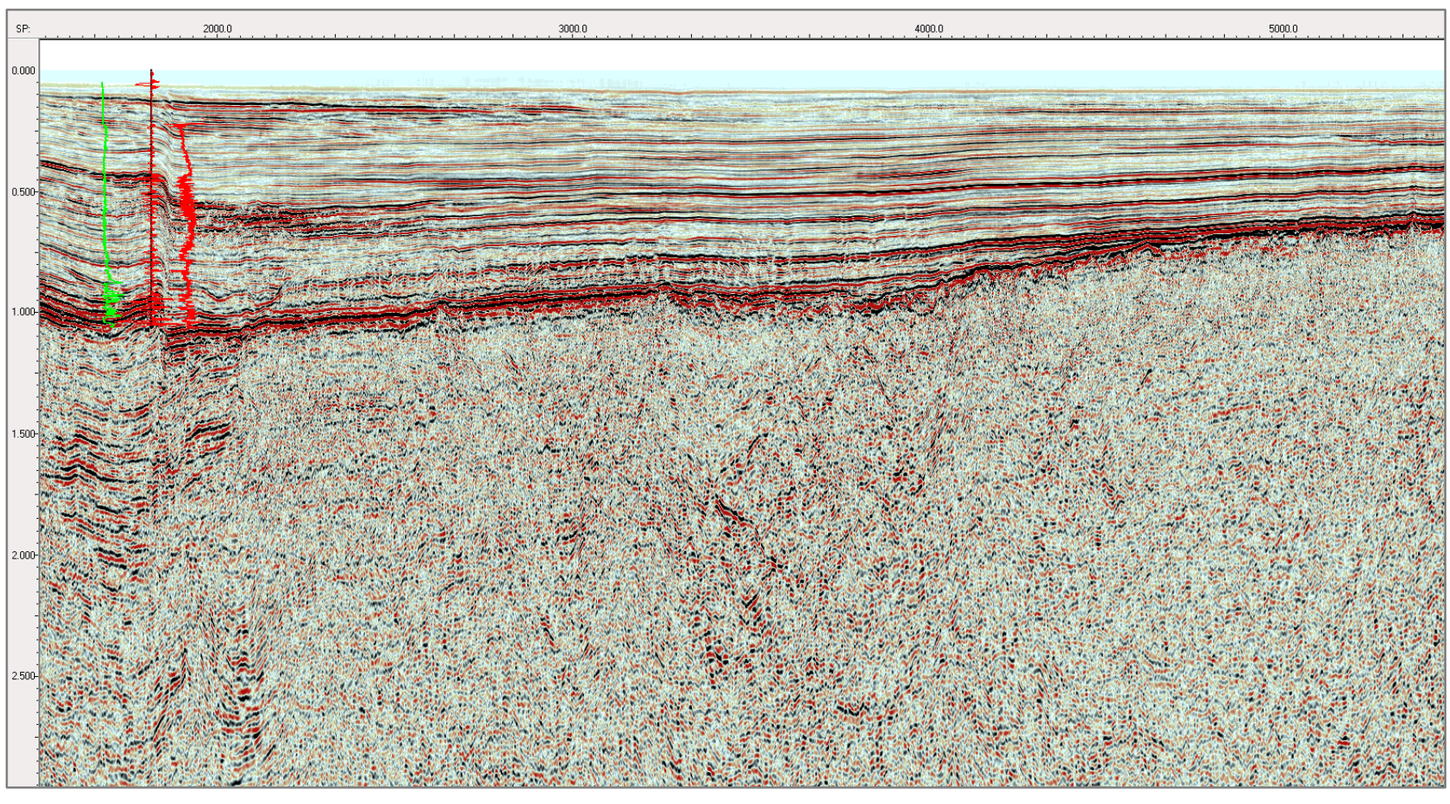

SP:
2000.0
3000.0
4000.0
5000.0
0.000
0.500
1.000
1.500
2.000
2.500

Figure 5.12

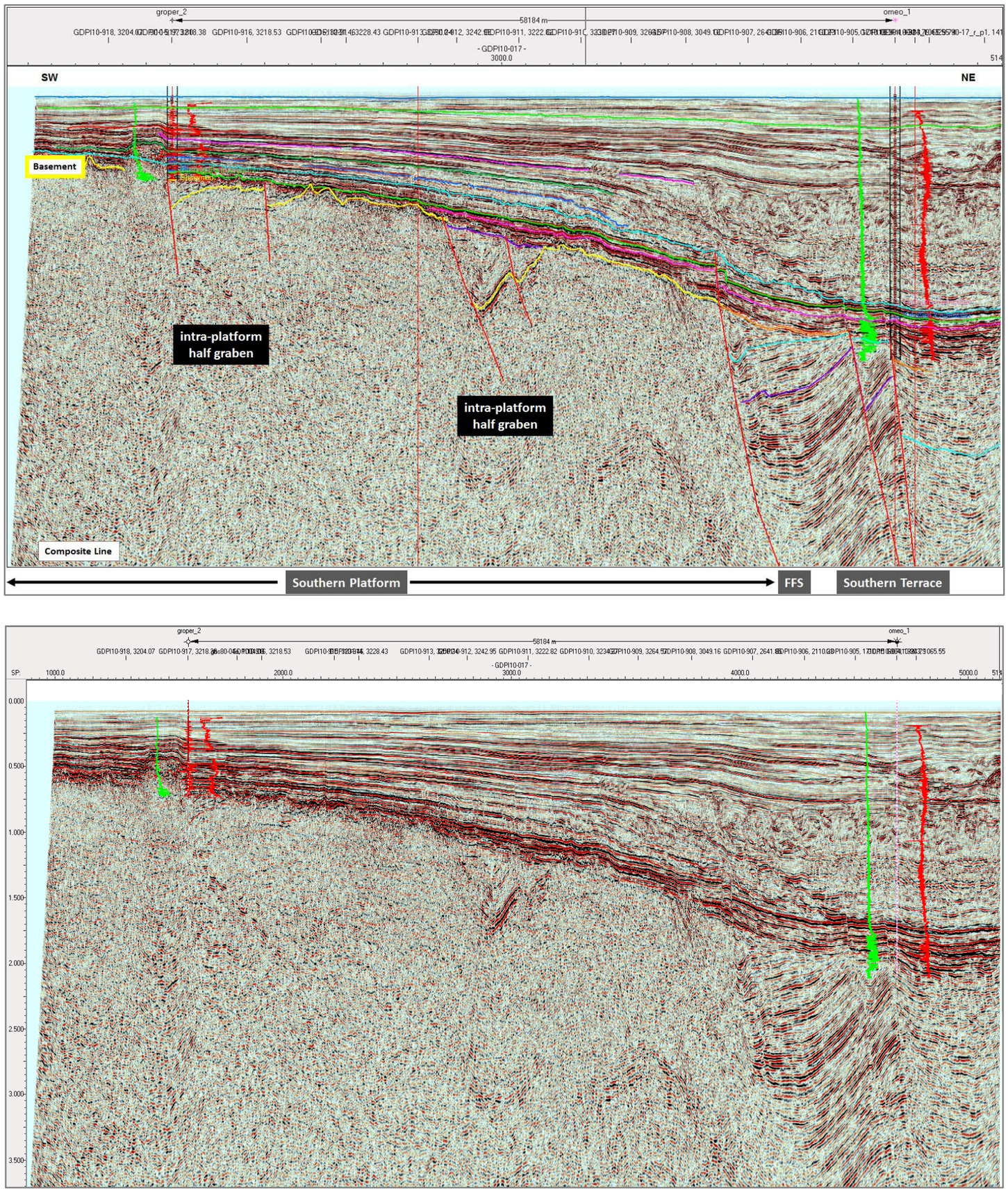
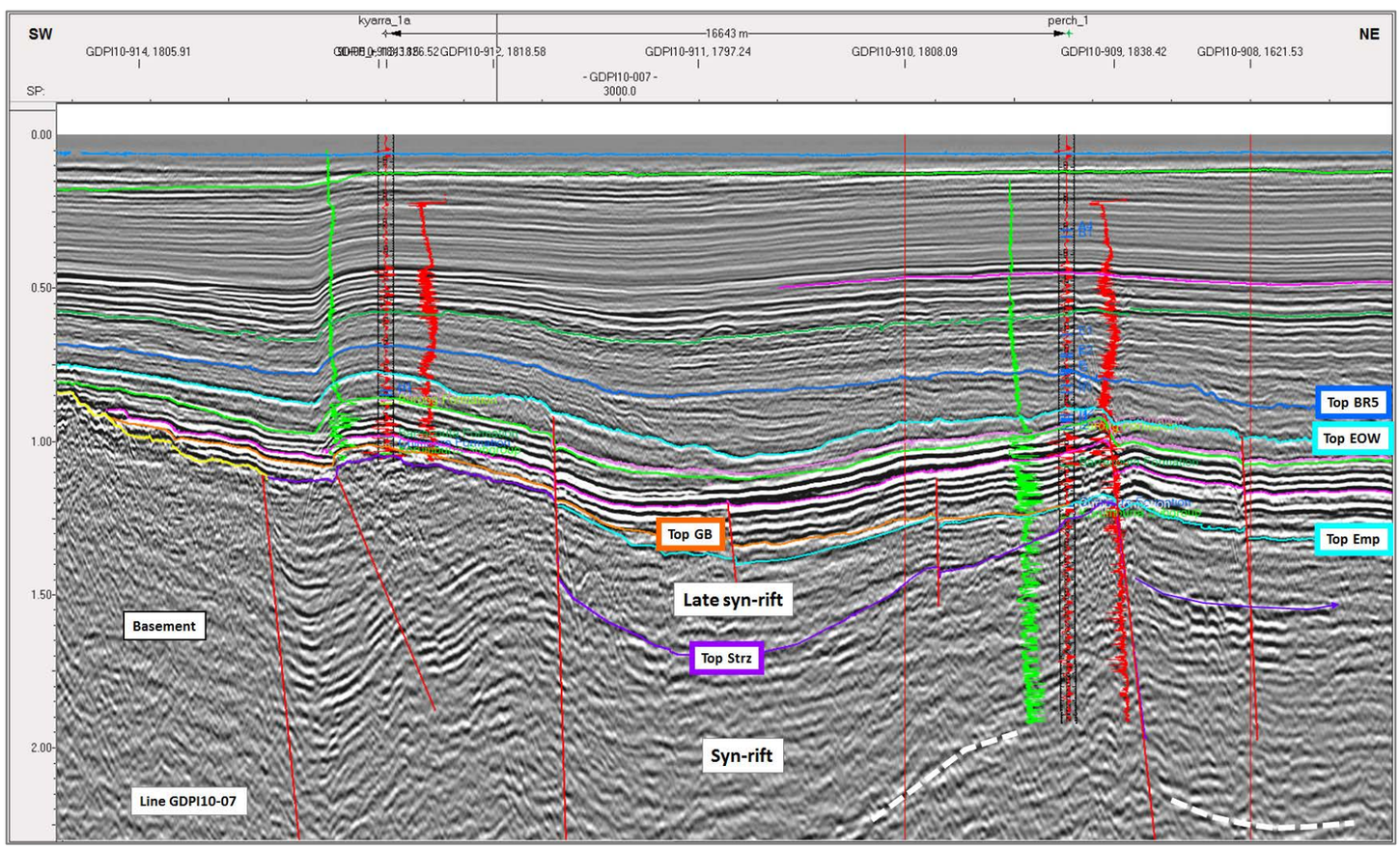

groper_2
omeo_1
58184 m
- GDPI10-017 -
3000.0
SW
NE
Basement
intra-platform half graben
intra-platform half graben
Composite Line
Southern Platform
FFS
Southern Terrace
SP:
1000.0
2000.0
3000.0
4000.0
5000.0
0.000
0.500
1.000
1.500
2.000
2.500
3.000
3.500

Figure 5.14


SW
NE
kyarra_1a
perch_1
16643 m
GDPI10-914, 1805.91
GDPI10-913, 1826.52
GDPI10-912, 1818.58
GDPI10-911, 1797.24
GDPI10-910, 1808.09
GDPI10-909, 1838.42
GDPI10-908, 1621.53
- GDPI10-007 -
3000.0
SP:
0.00
0.50
1.00
1.50
2.00
Top BR5
Top EOW
Top GB
Top Emp
Late syn-rift
Basement
Top Strz
Syn-rift
Line GDPI10-07

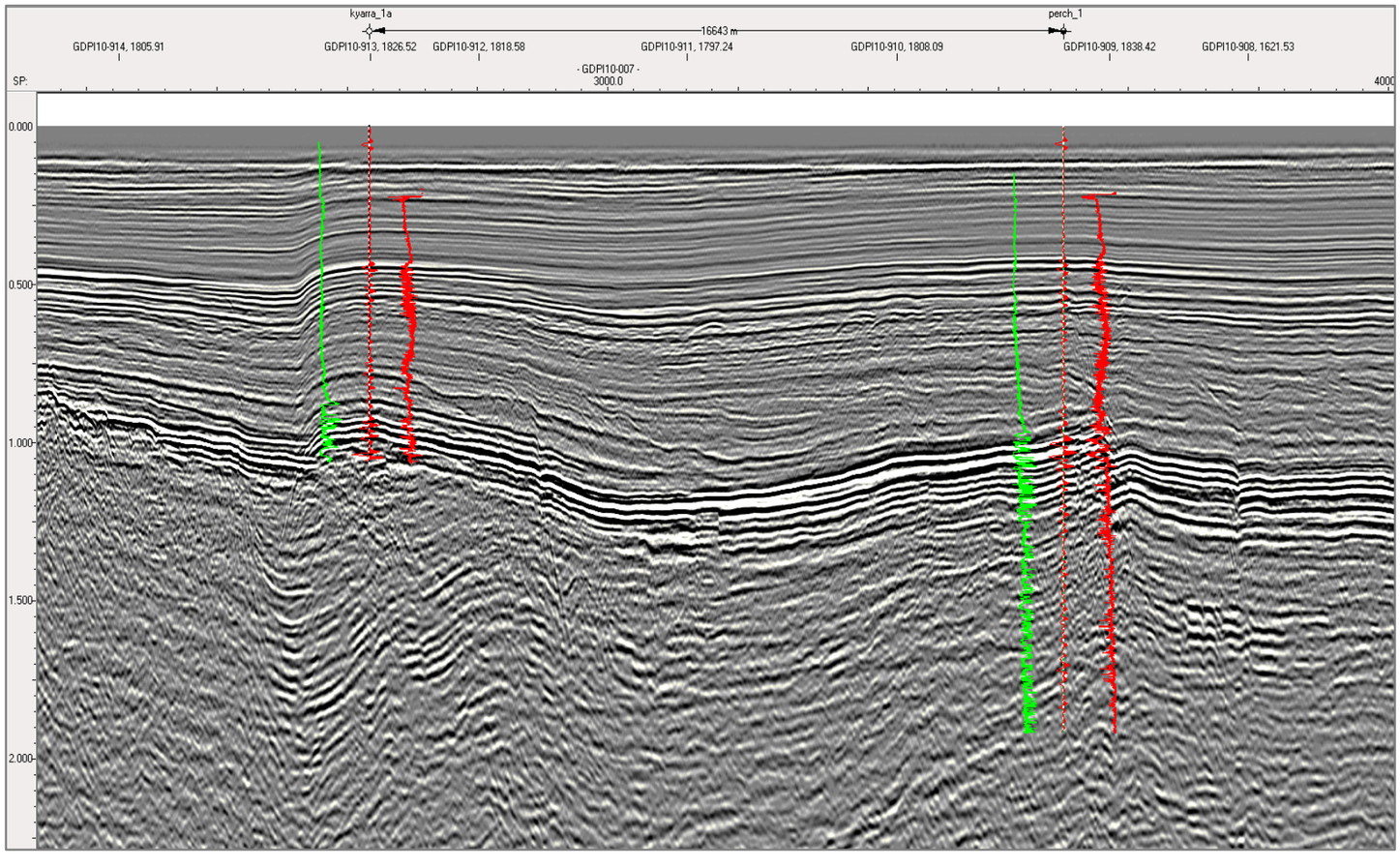
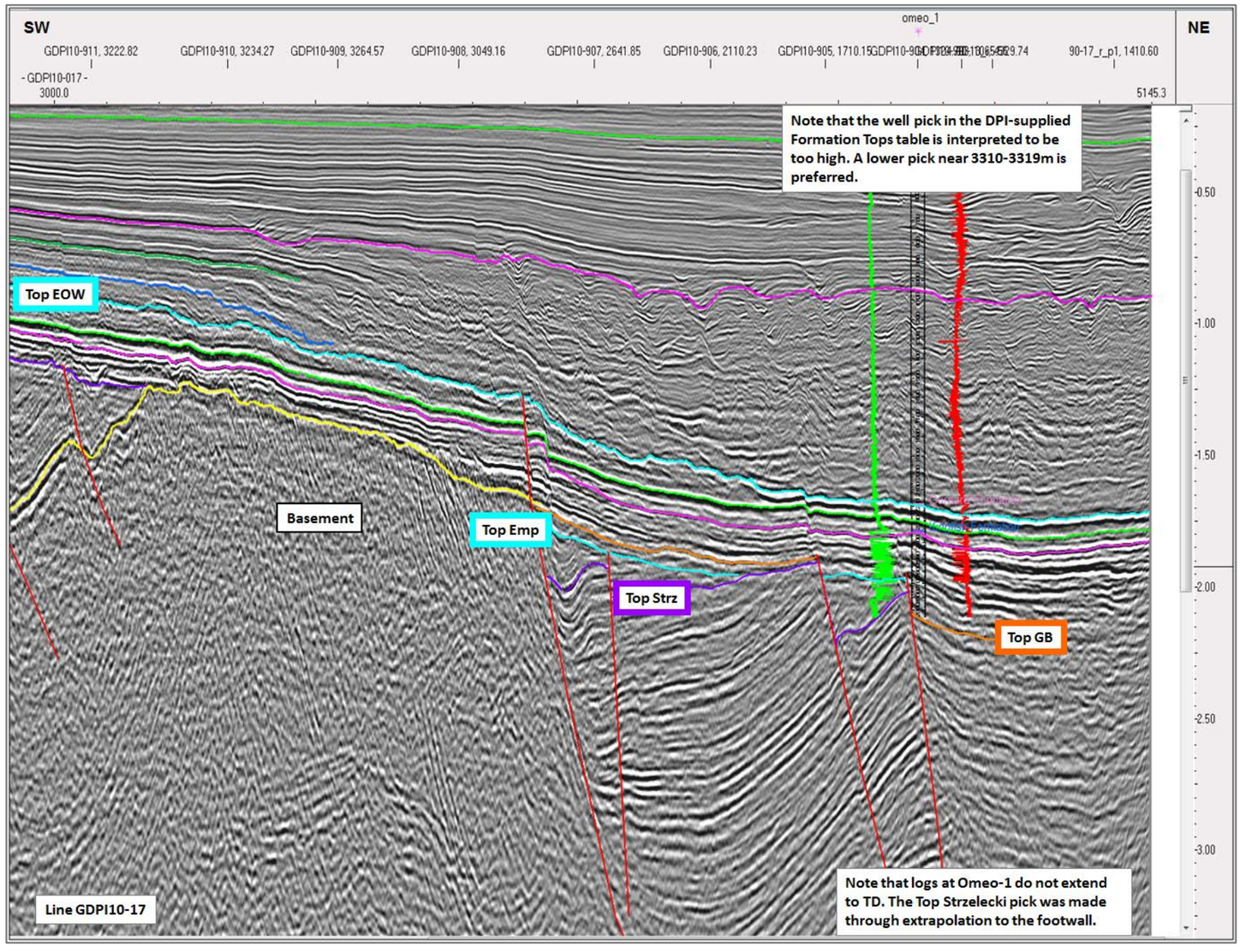
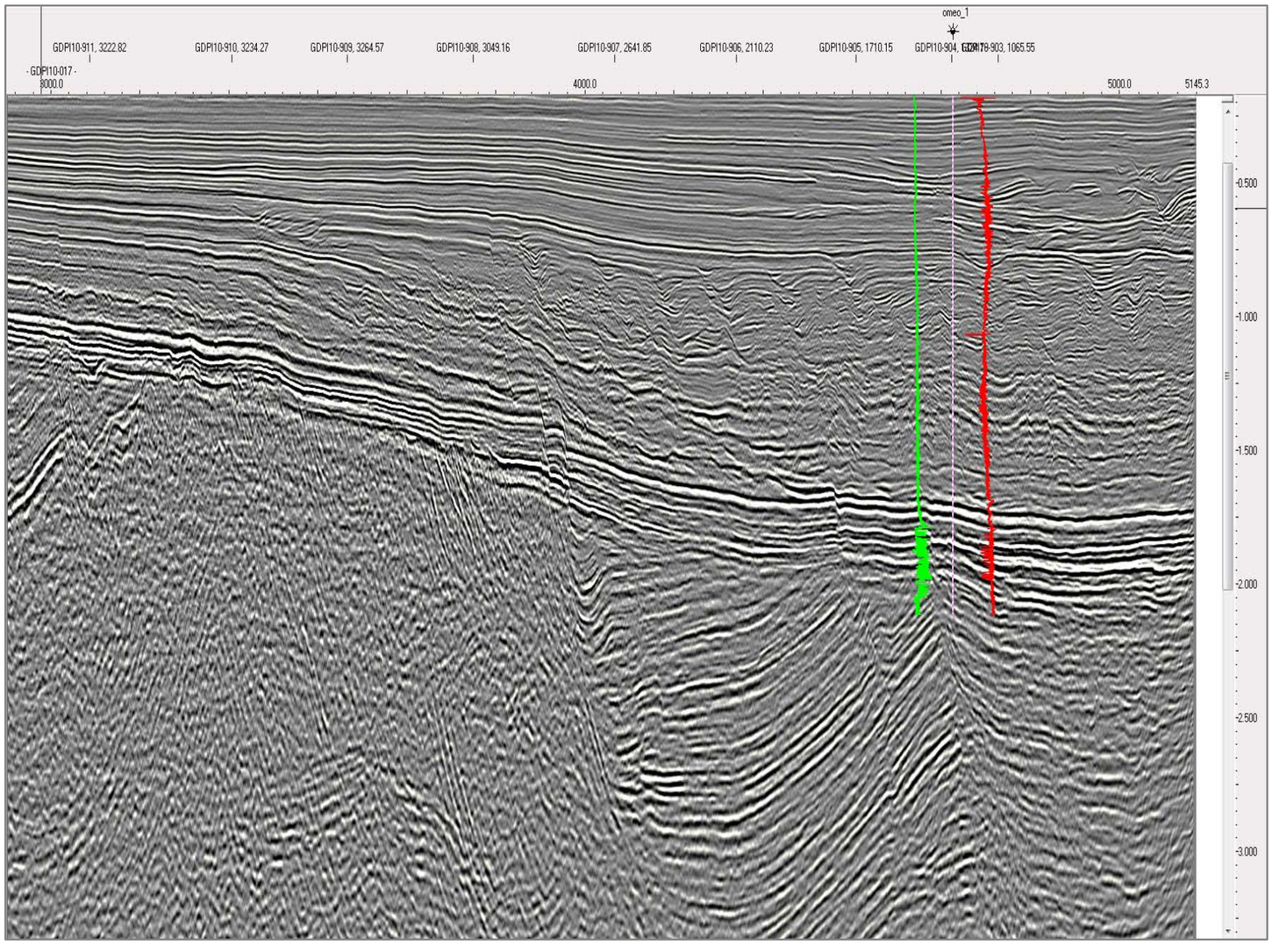

kyarra_1a
perch_1
16643 m
GDPI10-914, 1805.91
GDPI10-913, 1826.52
GDPI10-912, 1818.58
GDPI10-911, 1797.24
GDPI10-910, 1808.09
GDPI10-909, 1838.42
GDPI10-908, 1621.53
- GDPI10-007 -
3000.0
SP:
4000
0.000
0.500
1.000
1.500
2.000

Figure 5.15


SW
NE
omeo_1
GDPI10-911, 3222.82
GDPI10-910, 3234.27
GDPI10-909, 3264.57
GDPI10-908, 3049.16
GDPI10-907, 2641.85
GDPI10-906, 2110.23
GDPI10-905, 1710.15
90-17_r_p1, 1410.60
- GDPI10-017 -
3000.0
5145.3
Note that the well pick in the DPI-supplied Formation Tops table is interpreted to be too high. A lower pick near 3310-3319m is preferred.
Top EOW
Basement
Top Emp
Top Strz
Top GB
Line GDPI10-17
Note that logs at Omeo-1 do not extend to TD. The Top Strzelecki pick was made through extrapolation to the footwall.
-0.50
-1.00
-1.50
-2.00
-2.50
-3.00


omeo_1
GDPI10-911, 3222.82
GDPI10-910, 3234.27
GDPI10-909, 3264.57
GDPI10-908, 3049.16
GDPI10-907, 2641.85
GDPI10-906, 2110.23
GDPI10-905, 1710.15
GDPI10-903, 1065.55
- GDPI10-017 -
3000.0
4000.0
5000.0
5145.3
-0.500
-1.000
-1.500
-2.000
-2.500
-3.000

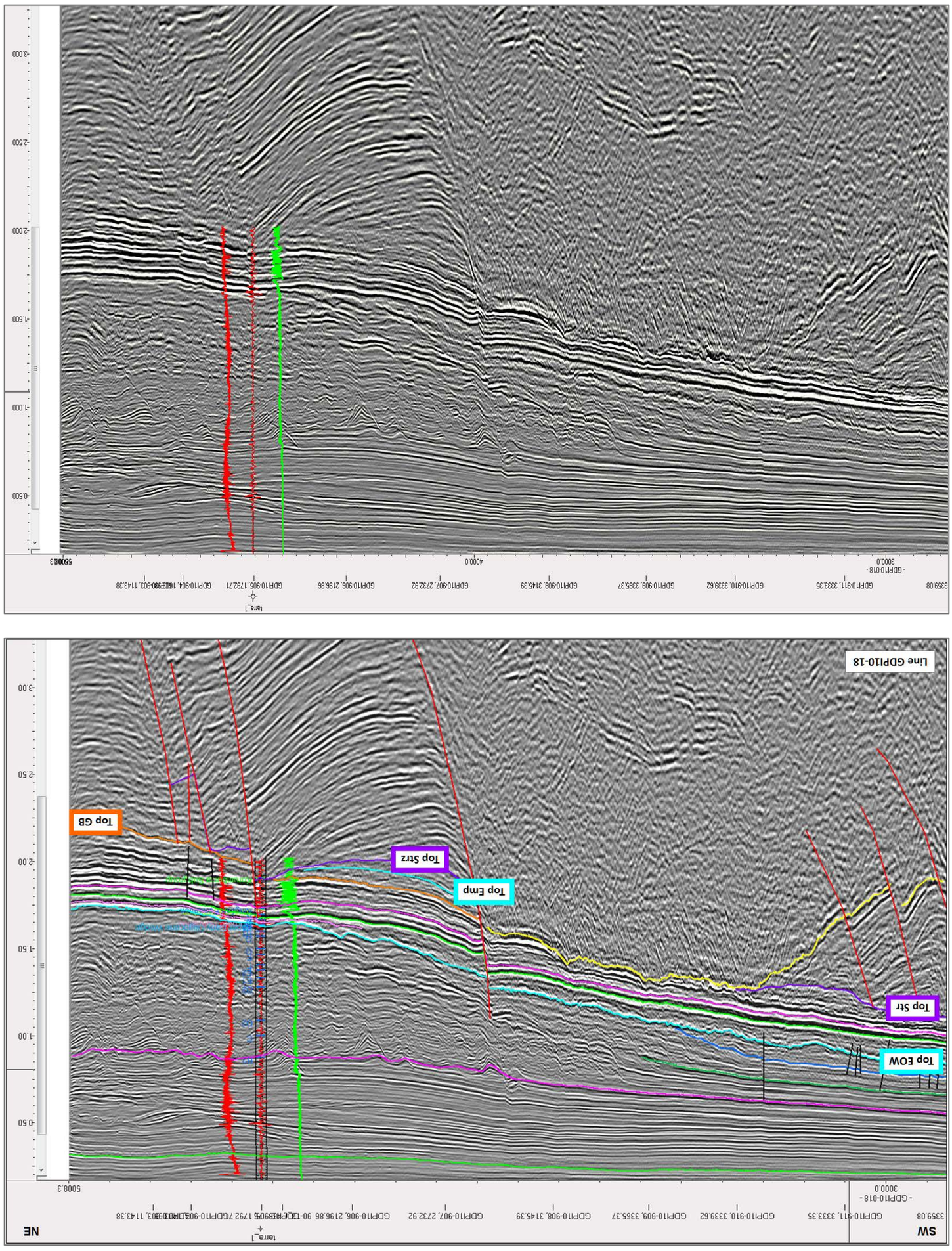

Line GDPI10-18
Top GB
Top Strz
Top Emp
Top Str
Top EOW
SW
NE
3359.08
GDPI10-911, 3333.35
GDPI10-910, 3339.62
GDPI10-909, 3365.37
GDPI10-908, 3145.39
GDPI10-907, 2732.92
GDPI10-906, 2196.86
GDPI10-905, 1792.71
GDPI10-904, 1437.90
GDPI10-903, 1143.38
- GDPI10-018 -
3000.0
4000.0
5008.3
-0.50
-1.00
-1.50
-2.00
-2.50
-3.00

Figure 5.16

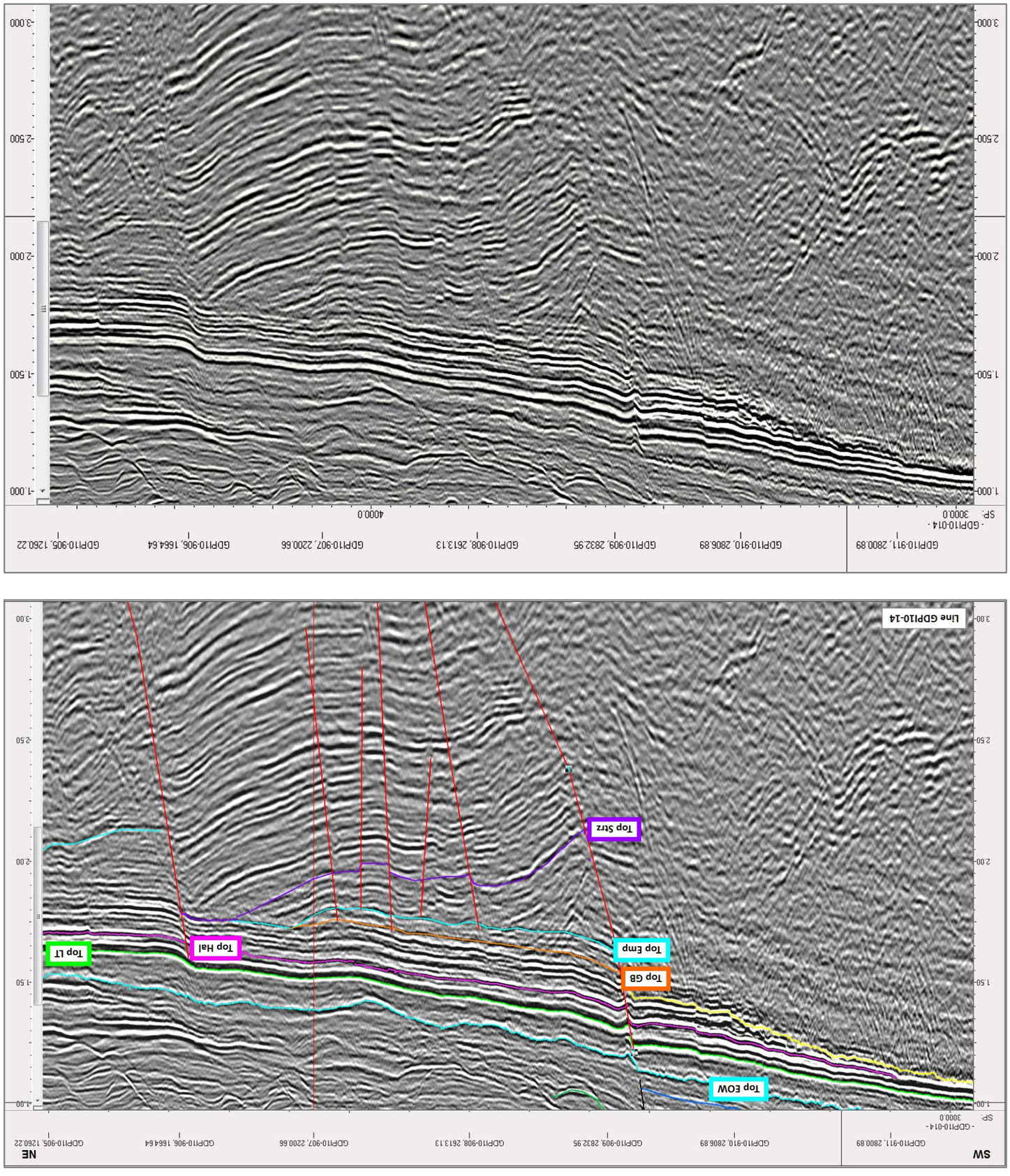

Line GDPI10-14
Top LT
Top Hal
Top Strz
Top Emp
Top GB
Top EOW
SW
NE
GDPI10-911, 2800.89
GDPI10-910, 2806.89
GDPI10-909, 2832.95
GDPI10-908, 2613.13
GDPI10-907, 2200.66
GDPI10-906, 1664.64
GDPI10-905, 1260.22
SP: 3000.0
4000.0

Figure 5.18

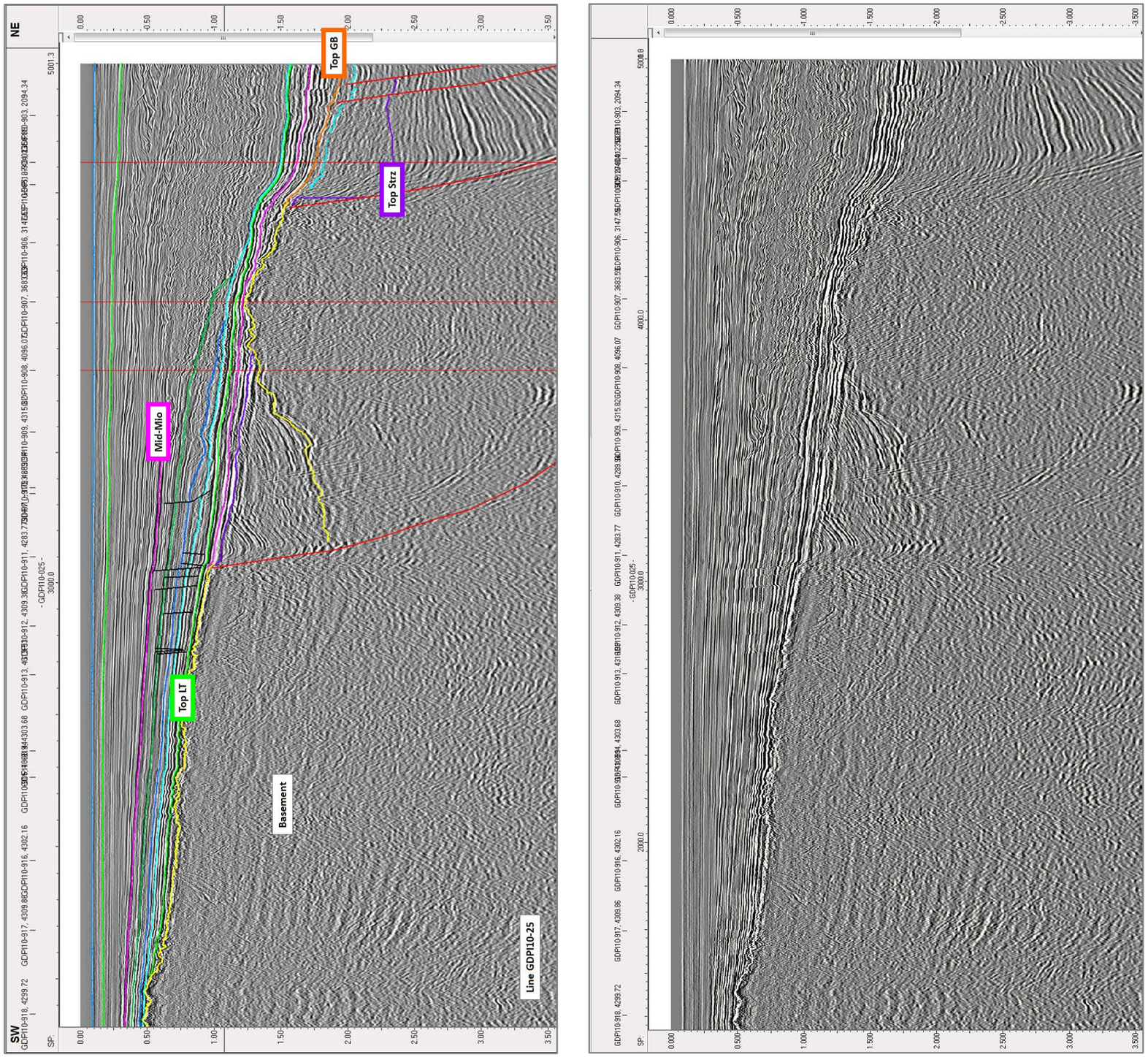
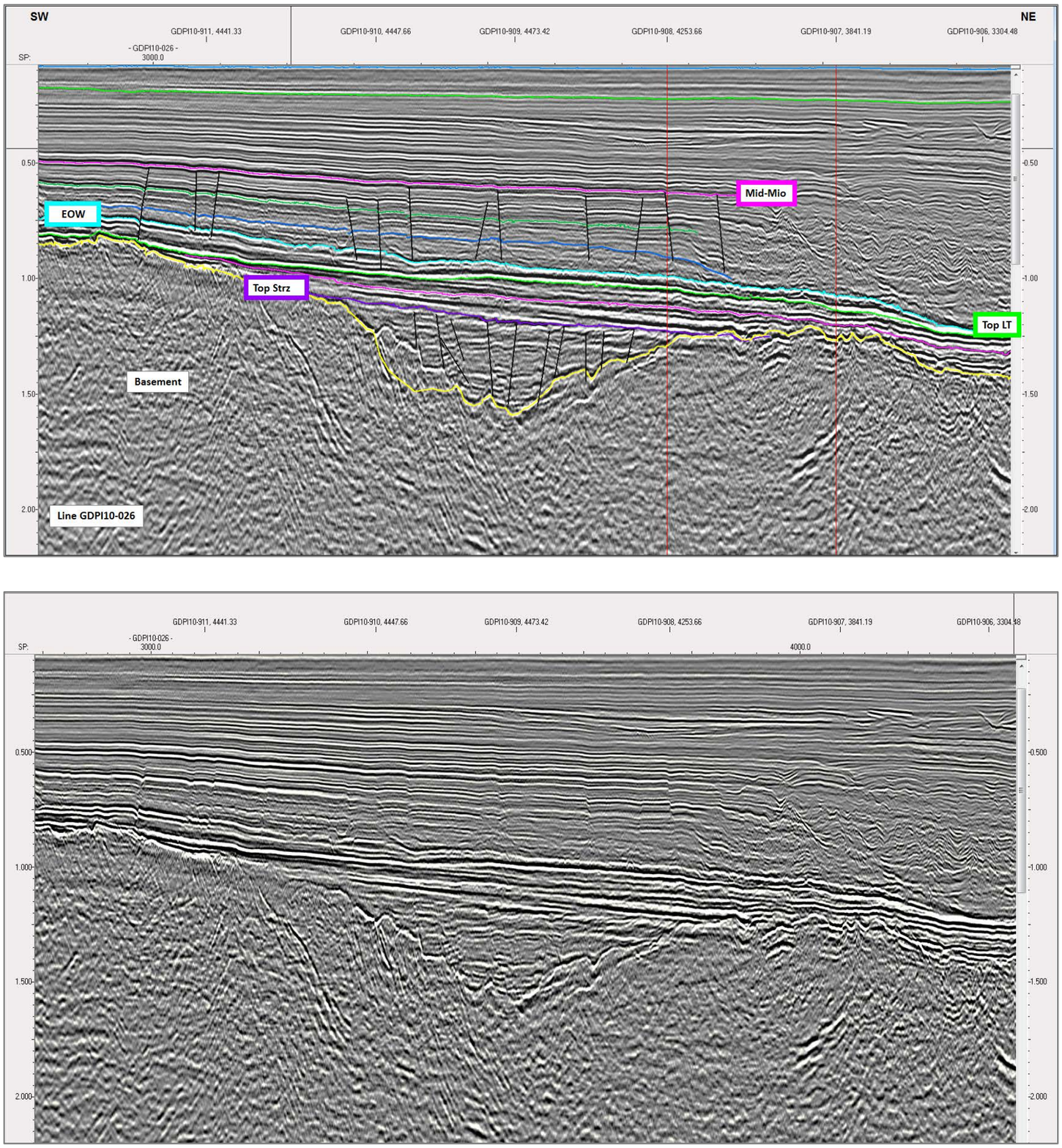


Figure 5.19

Figure 5.20


SW
NE
GDPI10-911, 4441.33
GDPI10-910, 4447.66
GDPI10-909, 4473.42
GDPI10-908, 4253.66
GDPI10-907, 3841.19
GDPI10-906, 3304.48
- GDPI10-026 -
3000.0
SP:
4000.0
0.500
1.00
1.50
2.00
0.500
1.000
1.500
2.000
-0.50
-1.00
-1.50
-2.00
-0.500
-1.000
-1.500
-2.000
EOW
Mid-Mio
Top Strz
Top LT
Basement
Line GDPI10-026

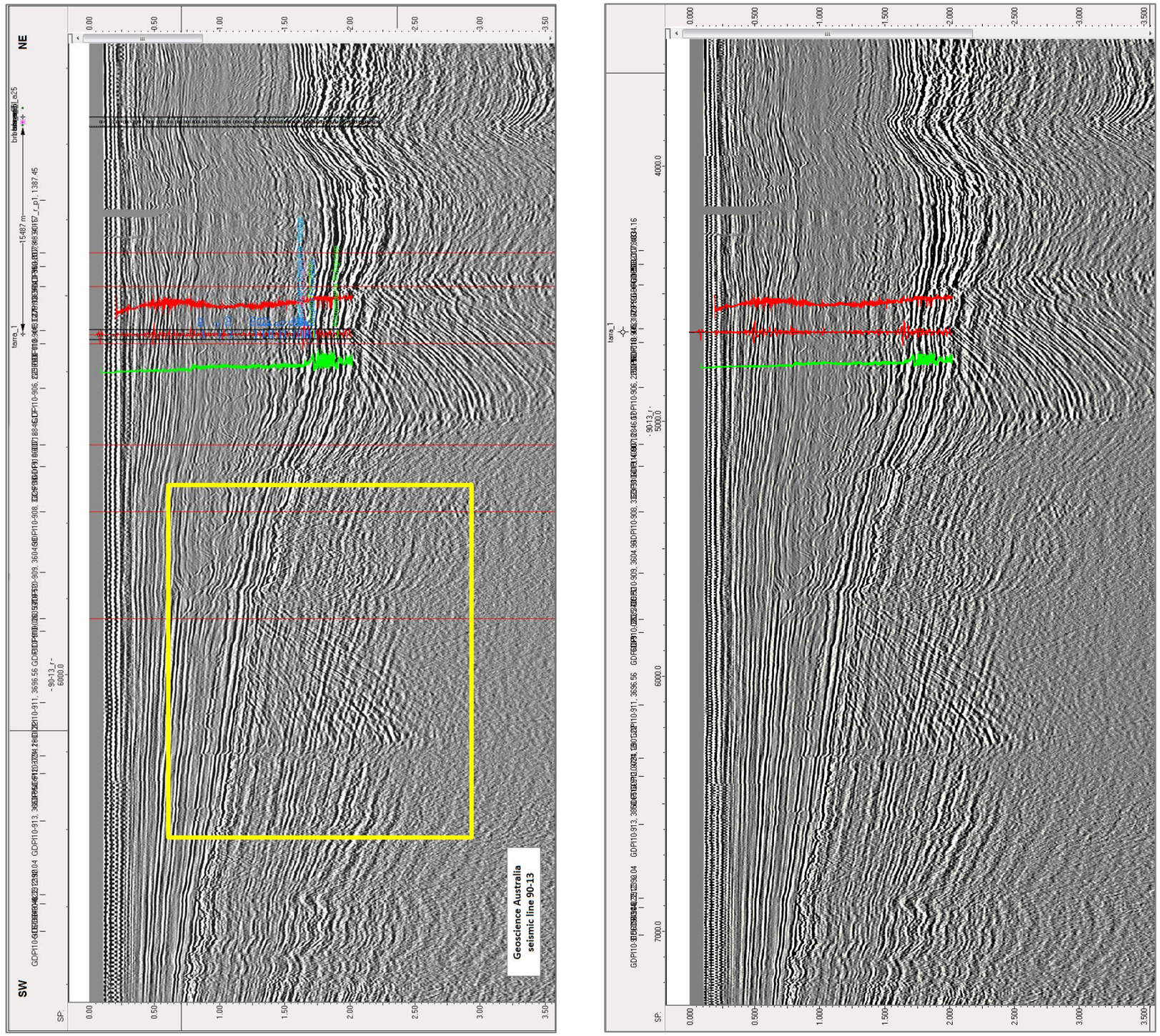
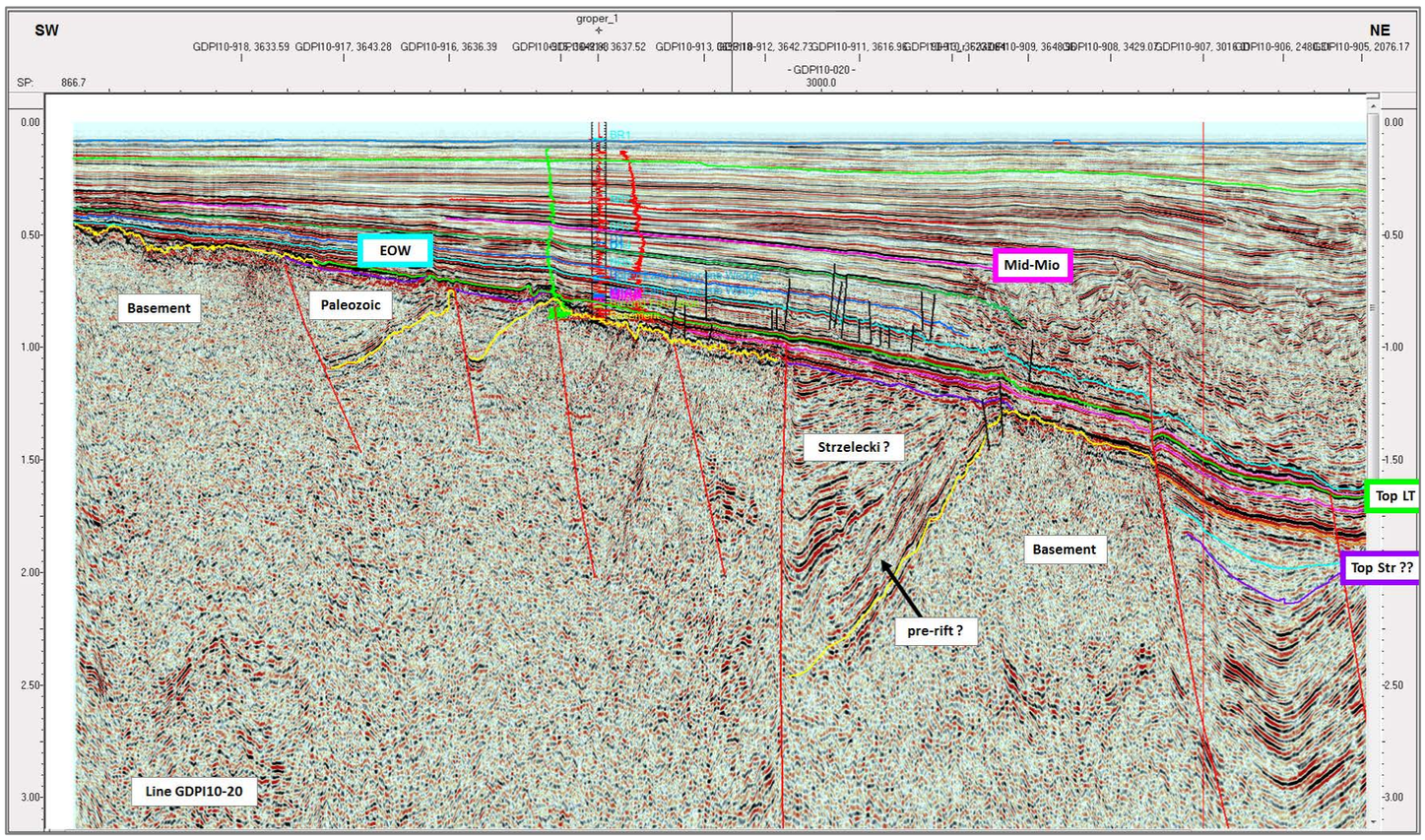
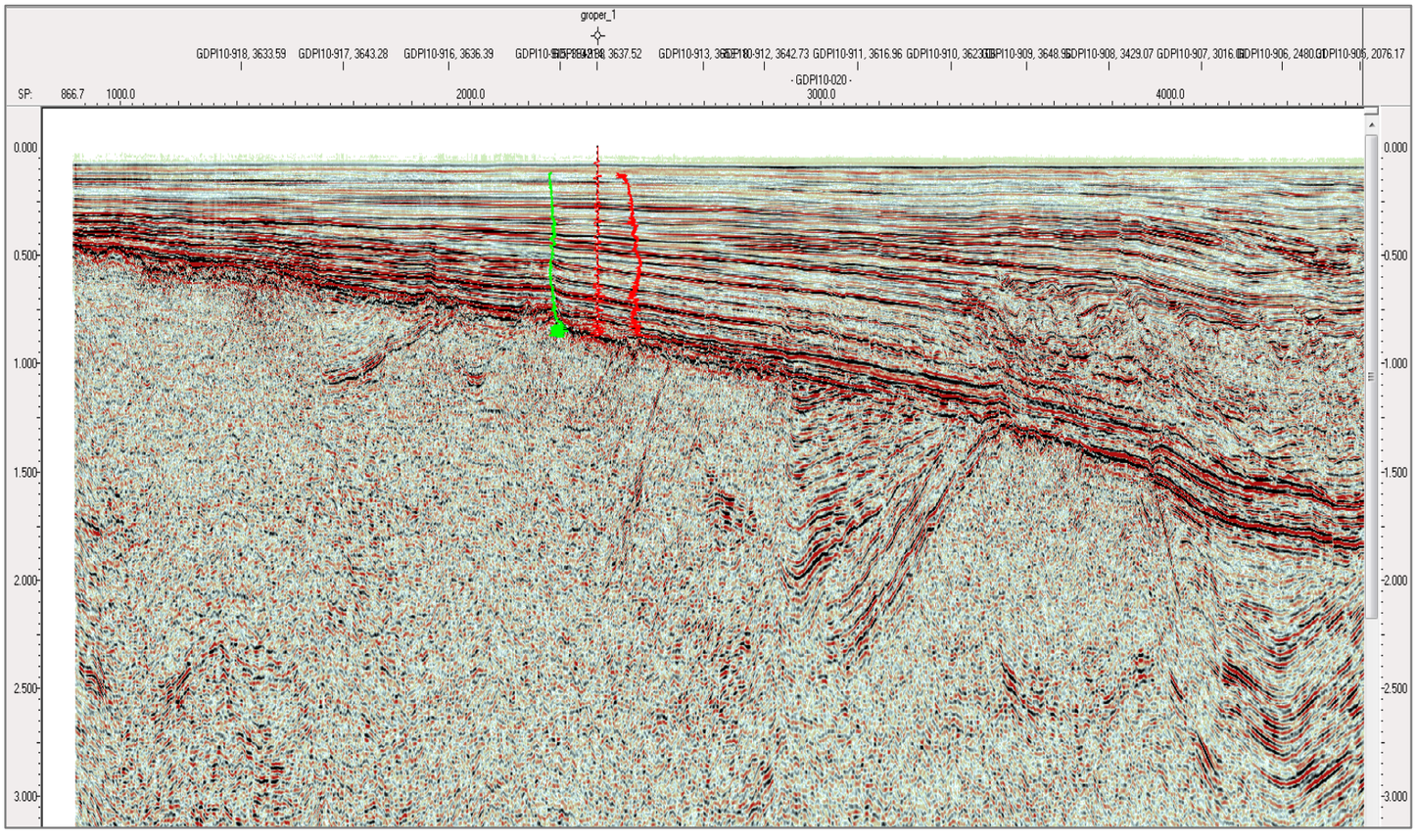


Figure 5.21

Figure 5.22


SW
NE
groper_1
SP:
866.7
- GDPI10-020 -
3000.0
EOW
Basement
Paleozoic
Mid-Mio
Strzelecki ?
Top LT
Basement
Top Str ??
pre-rift ?
Line GDPI10-20


groper_1
SP:
866.7
1000.0
2000.0
3000.0
4000.0
- GDPI10-020 -

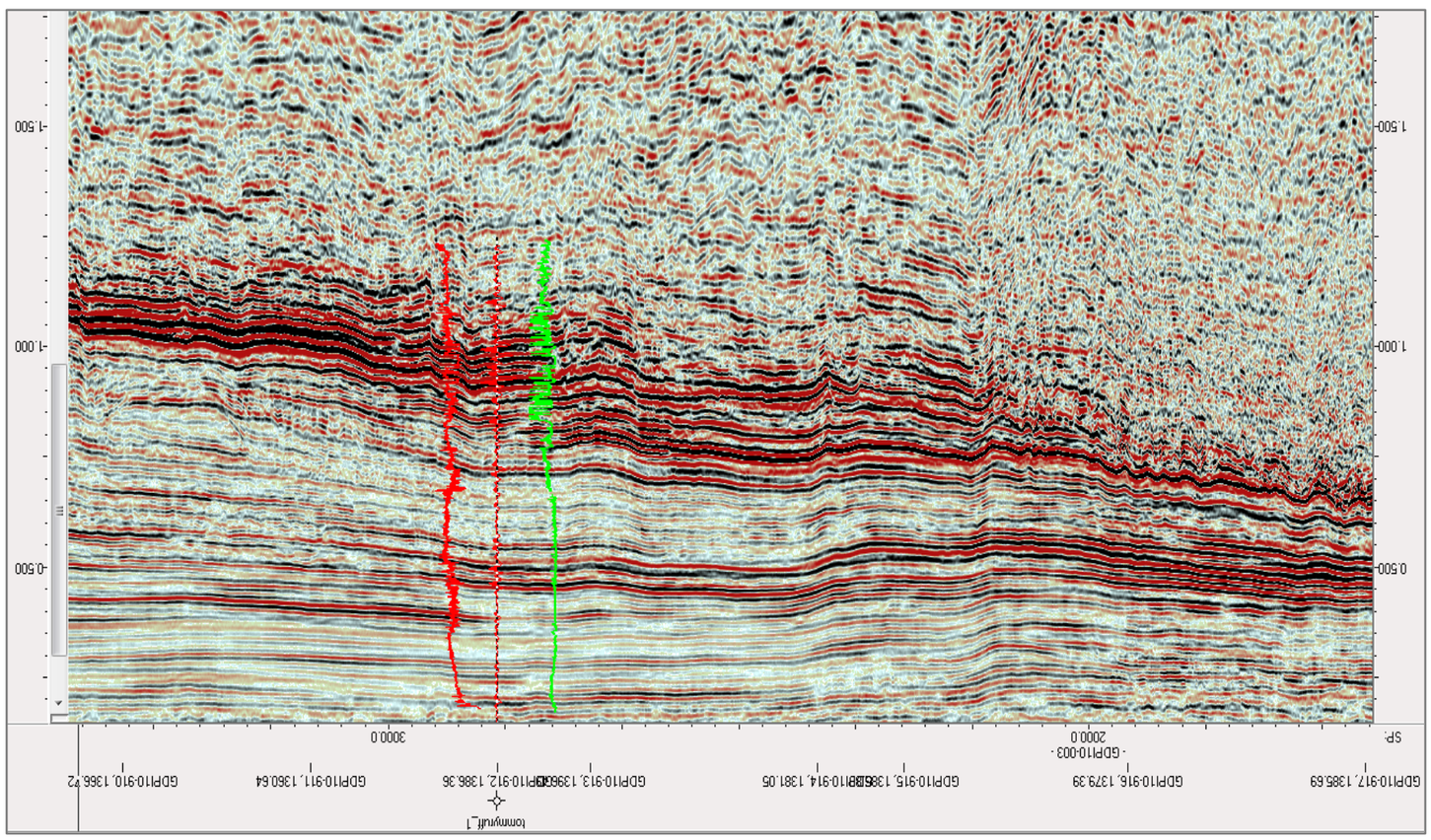

SW
NE
Line GDPI10-03
Top EOW
Top LT
Top Hal
Top Emp
Top Str
GDPI10-917, 1385.69
GDPI10-916, 1379.39
GDPI10-915, 1385.88
GDPI10-914, 1381.05
GDPI10-913, 1396.48
GDPI10-912, 1386.36
GDPI10-911, 1360.64
GDPI10-910, 1386.72
- GDPI10-003 -
3000.0
2000.0
SP
tommyruf_1
0.50
1.00
1.50

Figure 5.25

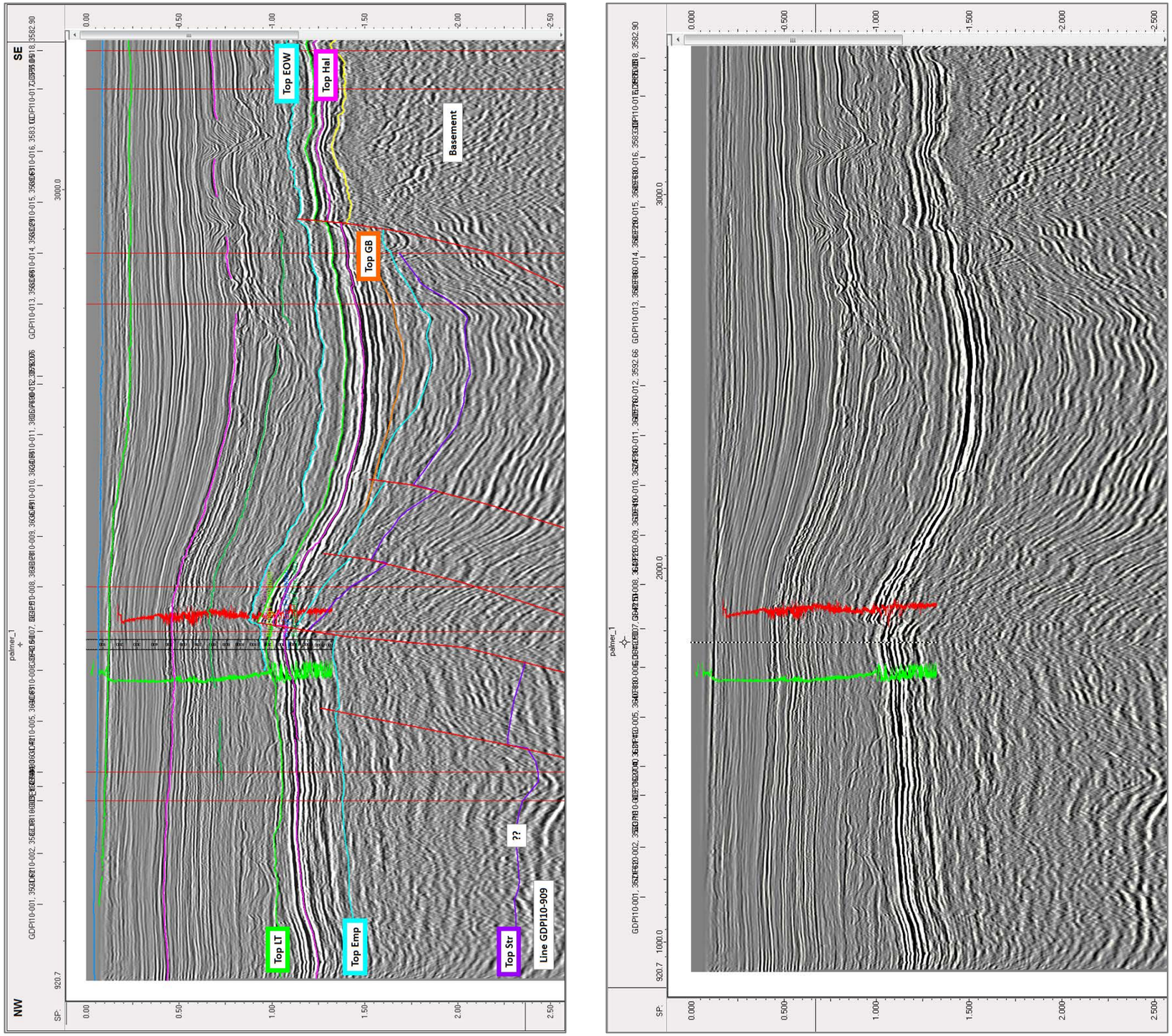

SE
NW
Top EOW
Top Hal
Basement
Top GB
Top LT
Top Emp
Top Str
??
Line GDPI10-909

Figure 5.26

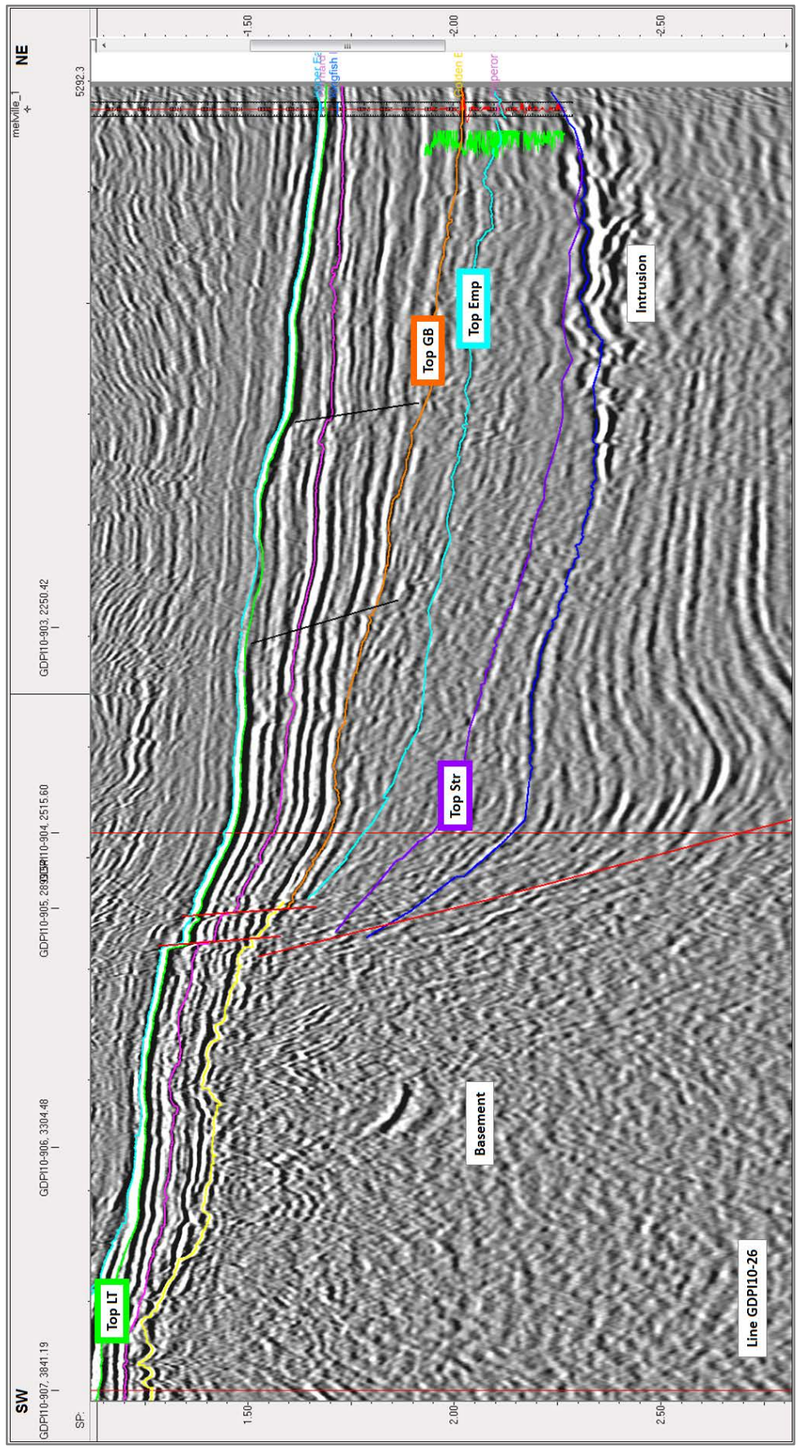
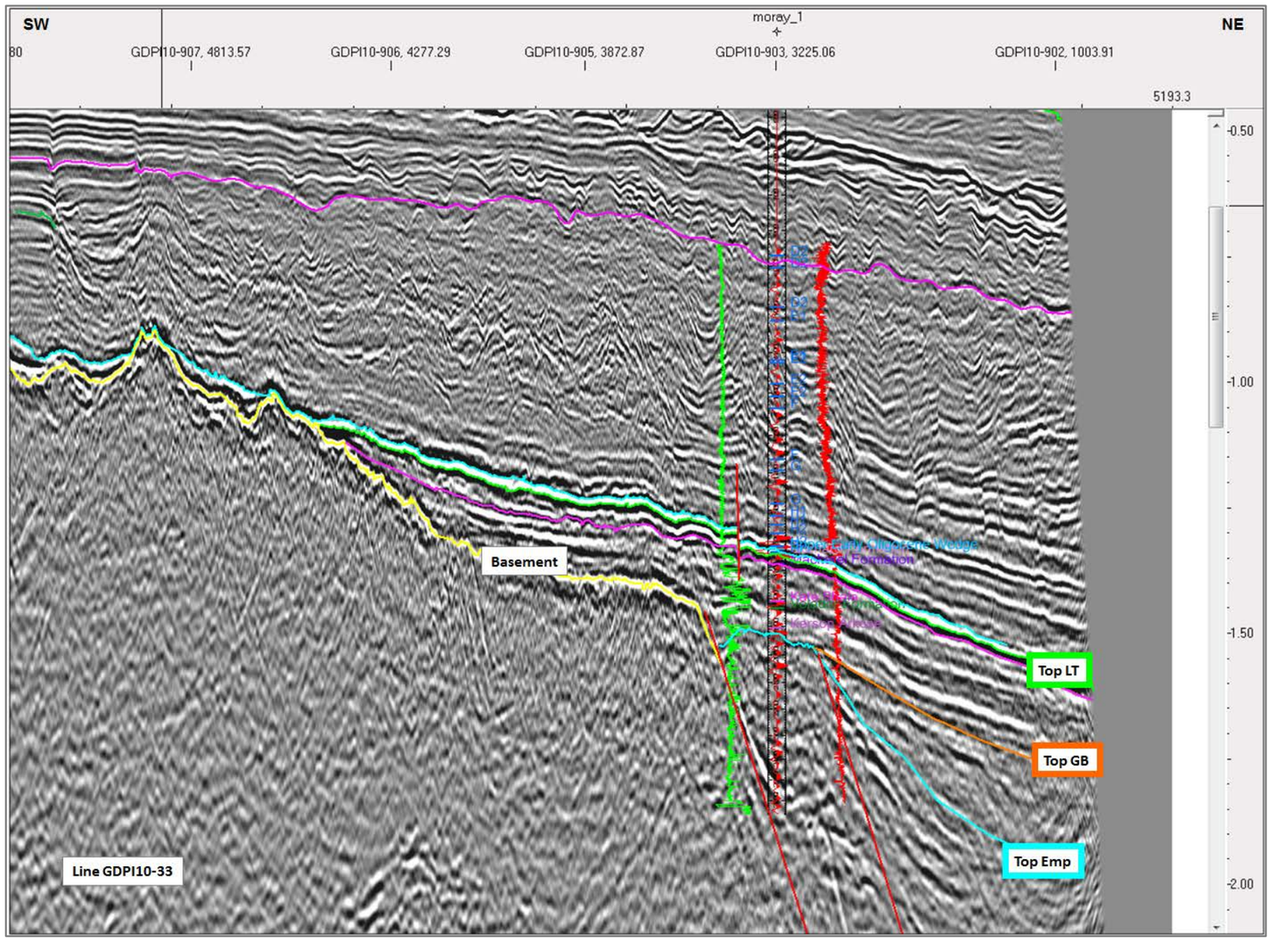

NE
SW
melville_1
5232.3
5000.0
GDPI10-903_2250.42
GDPI10-907_3841.19
GDPI10-906_3304.48
GDPI10-905_2888.54
GDPI10-904_2515.60
SP:
-1.500
-2.000
-2.500
1.500
2.000
2.500
Top GB
Top Emp
Intrusion
Top Str
Basement
Top LT
Line GDPI10-26

Figure 5.27

Figure 5.28


SW
NE
moray_1
GDPI10-907, 4813.57
GDPI10-906, 4277.29
GDPI10-905, 3872.87
GDPI10-903, 3225.06
GDPI10-902, 1003.91
5193.3
-0.50
-1.00
-1.50
-2.00
Basement
Top LT
Top GB
Top Emp
Line GDPI10-33

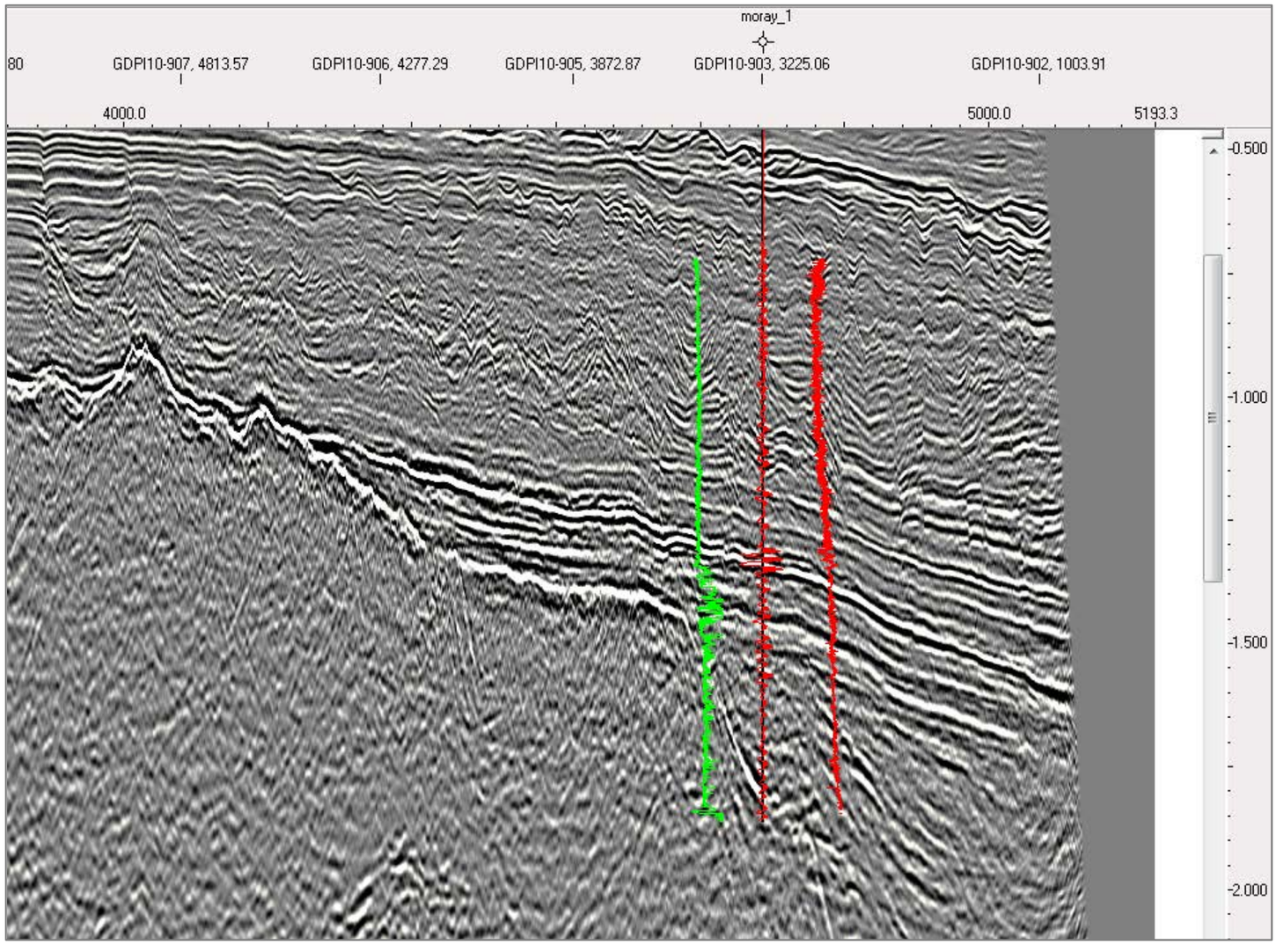
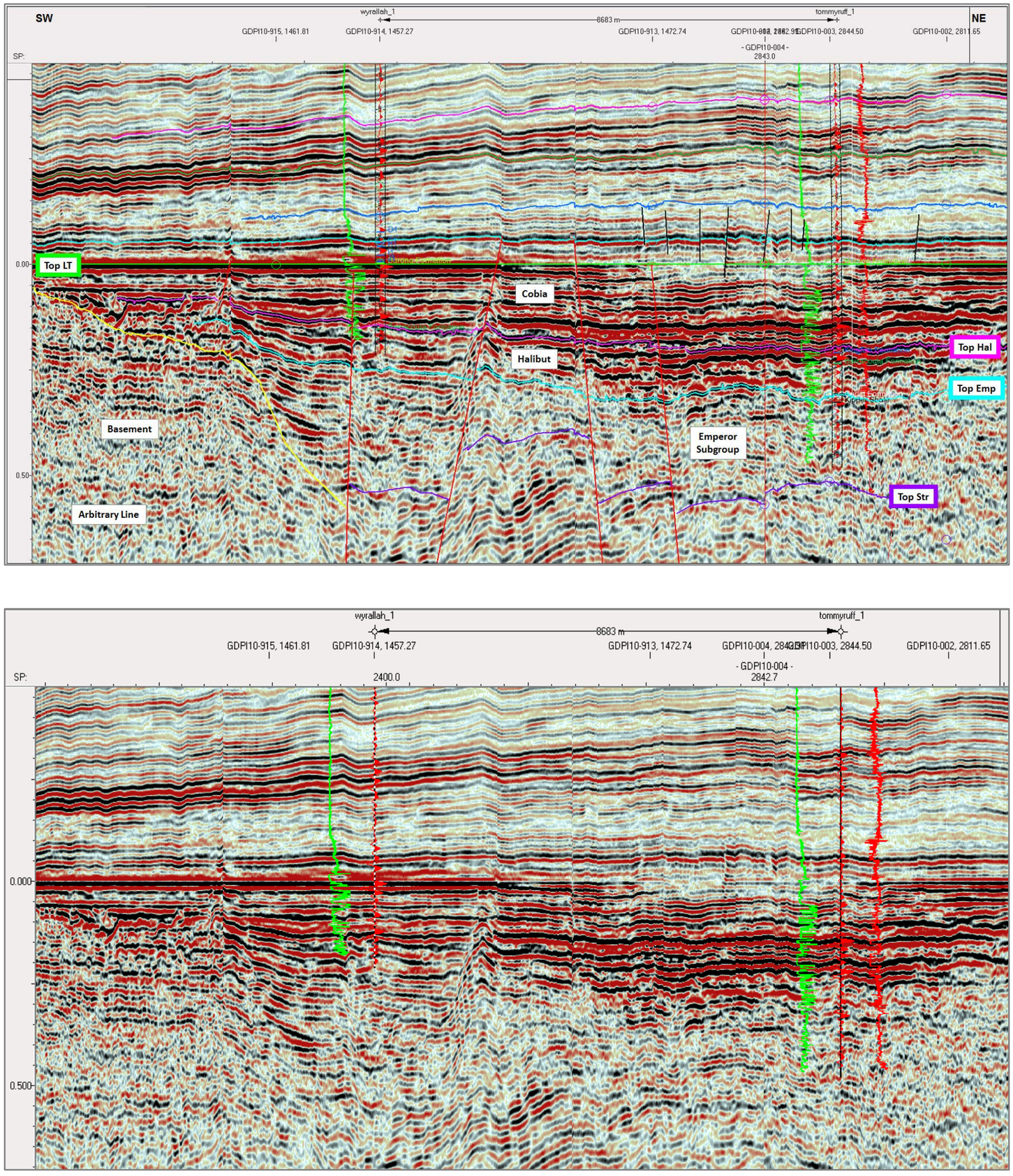

moray_1
GDPI10-907, 4813.57
GDPI10-906, 4277.29
GDPI10-905, 3872.87
GDPI10-903, 3225.06
GDPI10-902, 1003.91
4000.0
5000.0
5193.3
-0.500
-1.000
-1.500
-2.000

Figure 5.29


SW
NE
wyrallah_1
tommyruff_1
8683 m
GDPI10-915, 1461.81
GDPI10-914, 1457.27
GDPI10-913, 1472.74
GDPI10-003, 2844.50
GDPI10-002, 2811.65
- GDPI10-004 -
2843.0
SP:
0.00
0.50
Top LT
Cobia
Halibut
Top Hal
Top Emp
Basement
Emperor
Subgroup
Top Str
Arbitrary Line
wyrallah_1
tommyruff_1
8683 m
GDPI10-915, 1461.81
GDPI10-914, 1457.27
GDPI10-913, 1472.74
GDPI10-003, 2844.50
GDPI10-002, 2811.65
- GDPI10-004 -
2842.7
SP:
2400.0
0.000
0.500

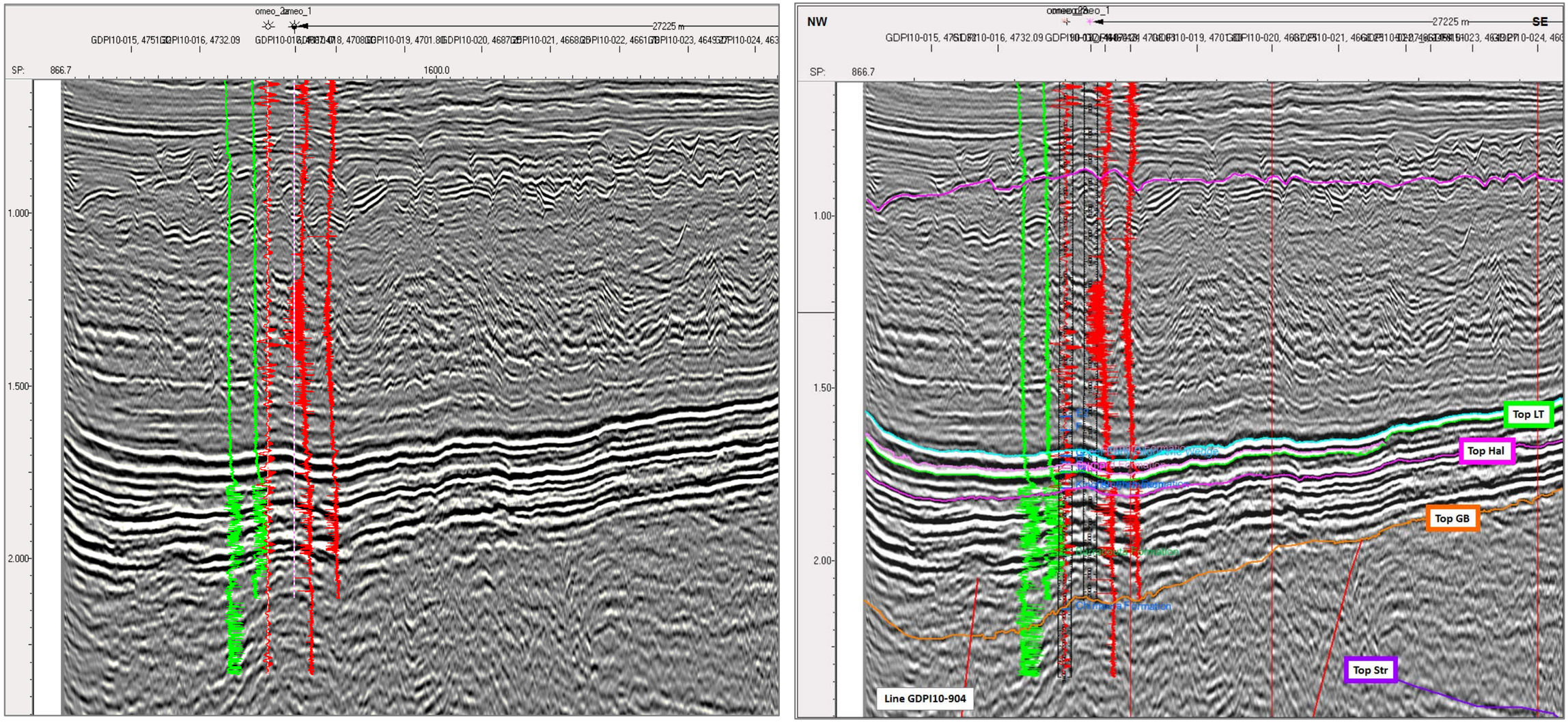

NW
SE
SP:
866.7
1600.0
27225 m
1.000
1.500
2.000
1.00
1.50
2.00
Top LT
Top Hal
Top GB
Top Str
Line GDPI10-904

Figure 5.31

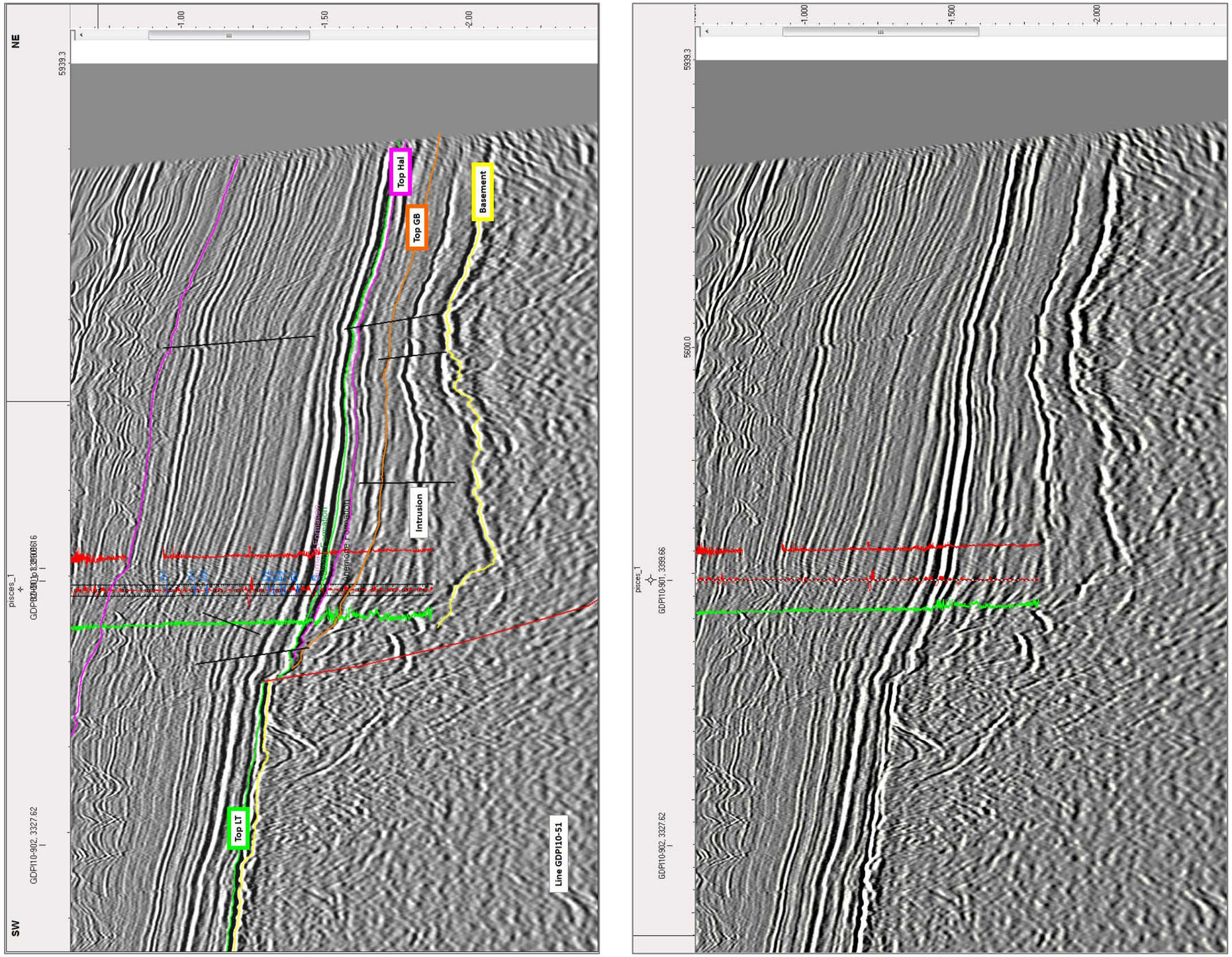

NE
SW
5939.3
5600.0
-1.00
-1.50
-2.00
-1.000
-1.500
-2.000
Top Hal
Top GB
Basement
Intrusion
Top LT
Line GDPI10-51
pisces_1
GDPI10-902_3327.62
GDPI10-901_3399.66

Figure 5.32

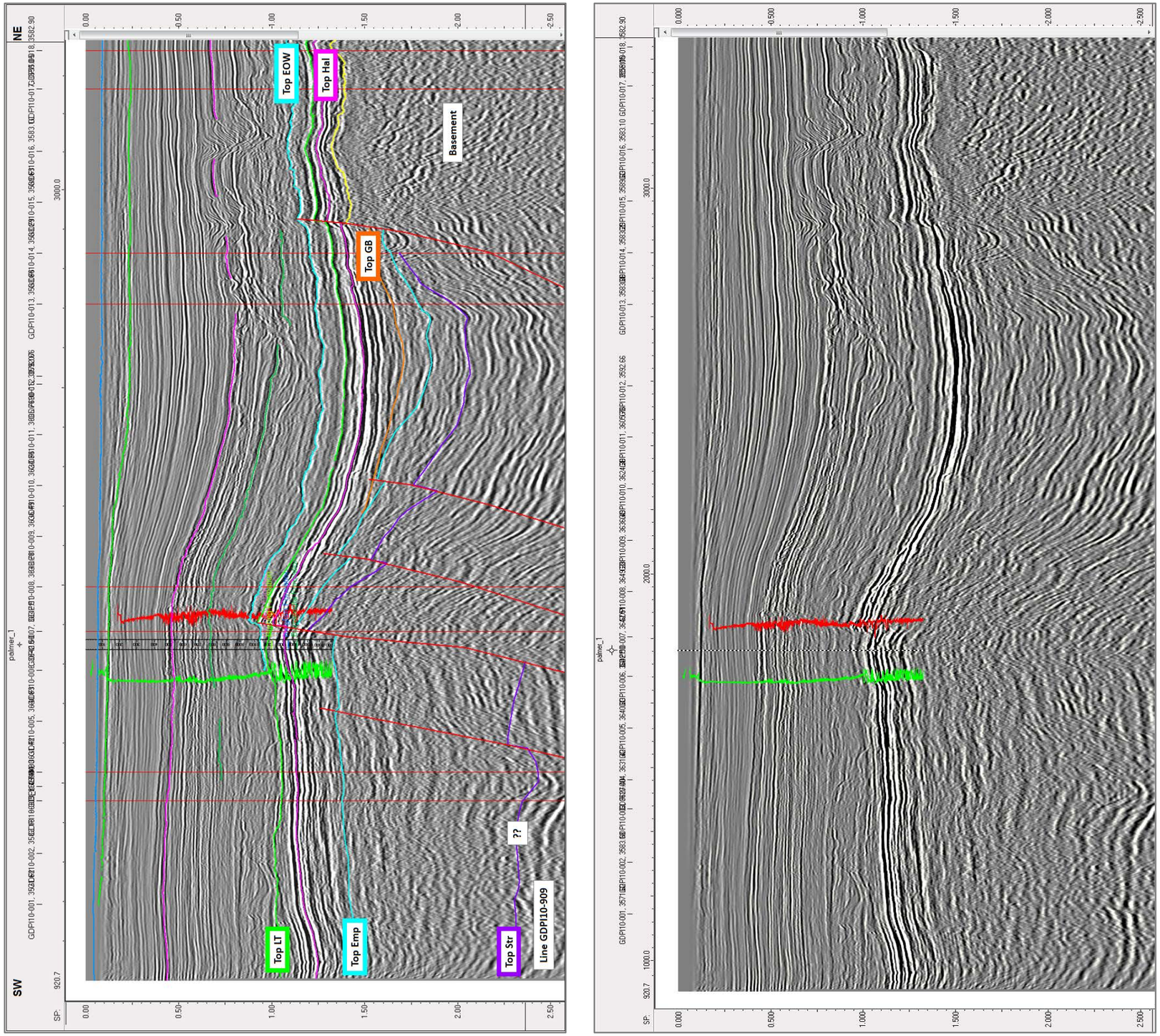

NE
SW
Top EOW
Top Hal
Basement
Top GB
??
Top LT
Top Emp
Top Str
Line GDP110-909

Figure 5.33

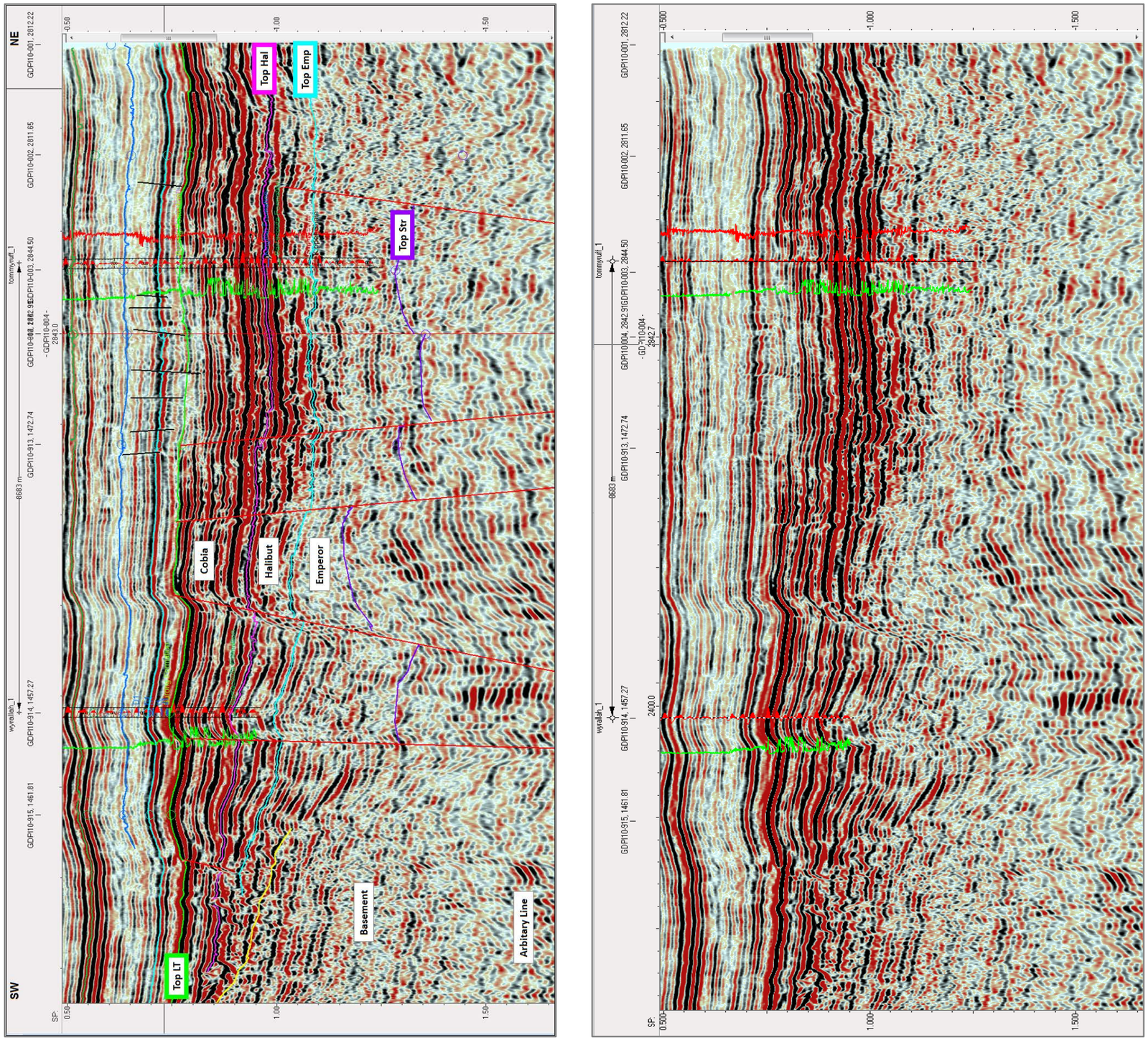

NE
SW
Top Hal
Top Emp
Top Str
Cobia
Halibut
Emperor
Basement
Top LT
Arbitary Line
tommyruff_1
wyrallah_1
GDP110-001, 2812.22
GDP110-002, 2811.65
GDP110-003, 2844.50
GDP110-004, 2842.91
GDP110-913, 1472.74
GDP110-914, 1457.27
GDP110-915, 1461.81
8683 m
2400.0
SP:
0.500
1.000
1.500

Figure 5.35

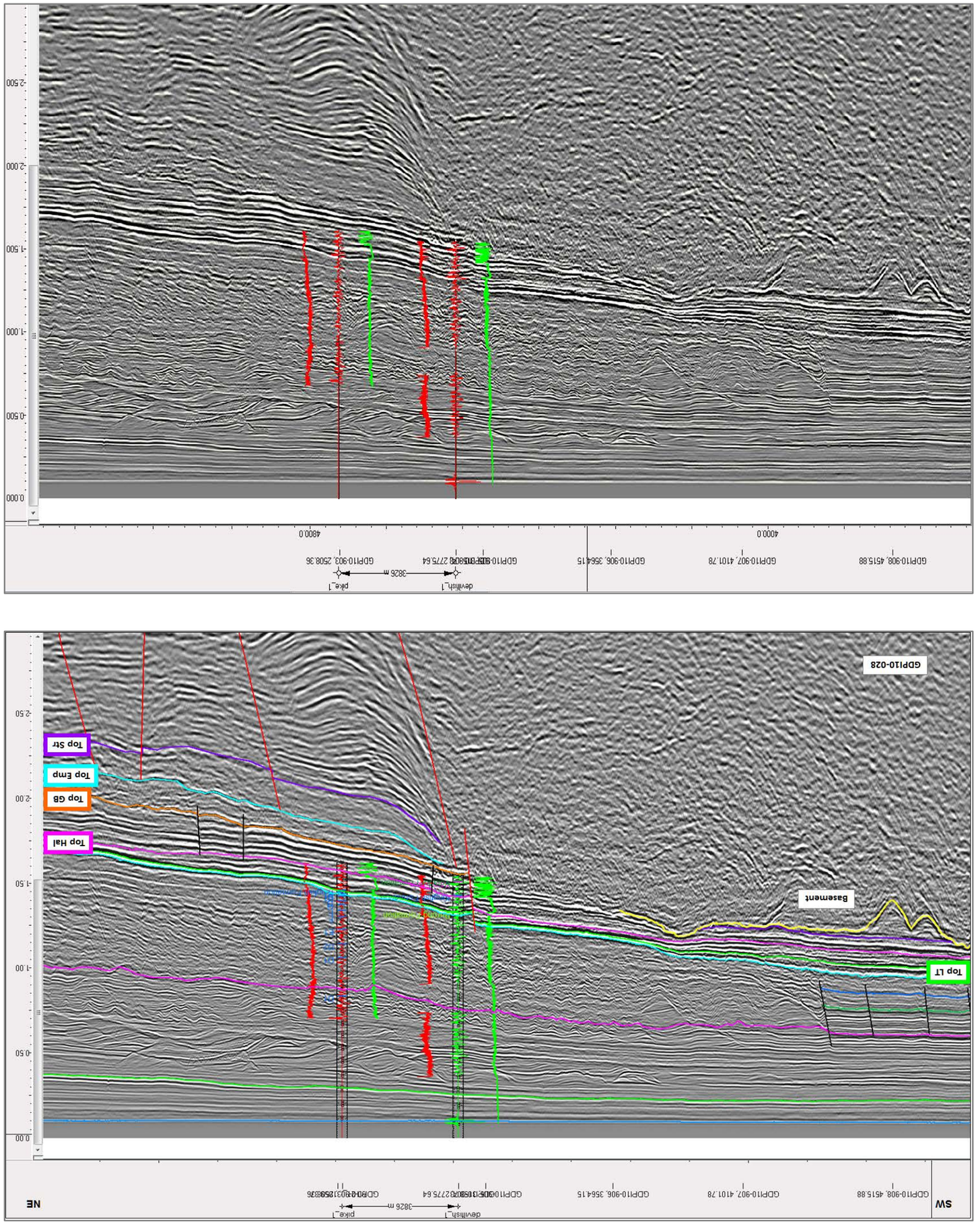

Top Str
Top Emp
Top GB
Top Hal
Basement
Top LT
GDP110-028
SW
NE
GDP110-908, 4515.88
GDP110-907, 4101.78
GDP110-906, 3564.15
3826 m

Figure 5.36

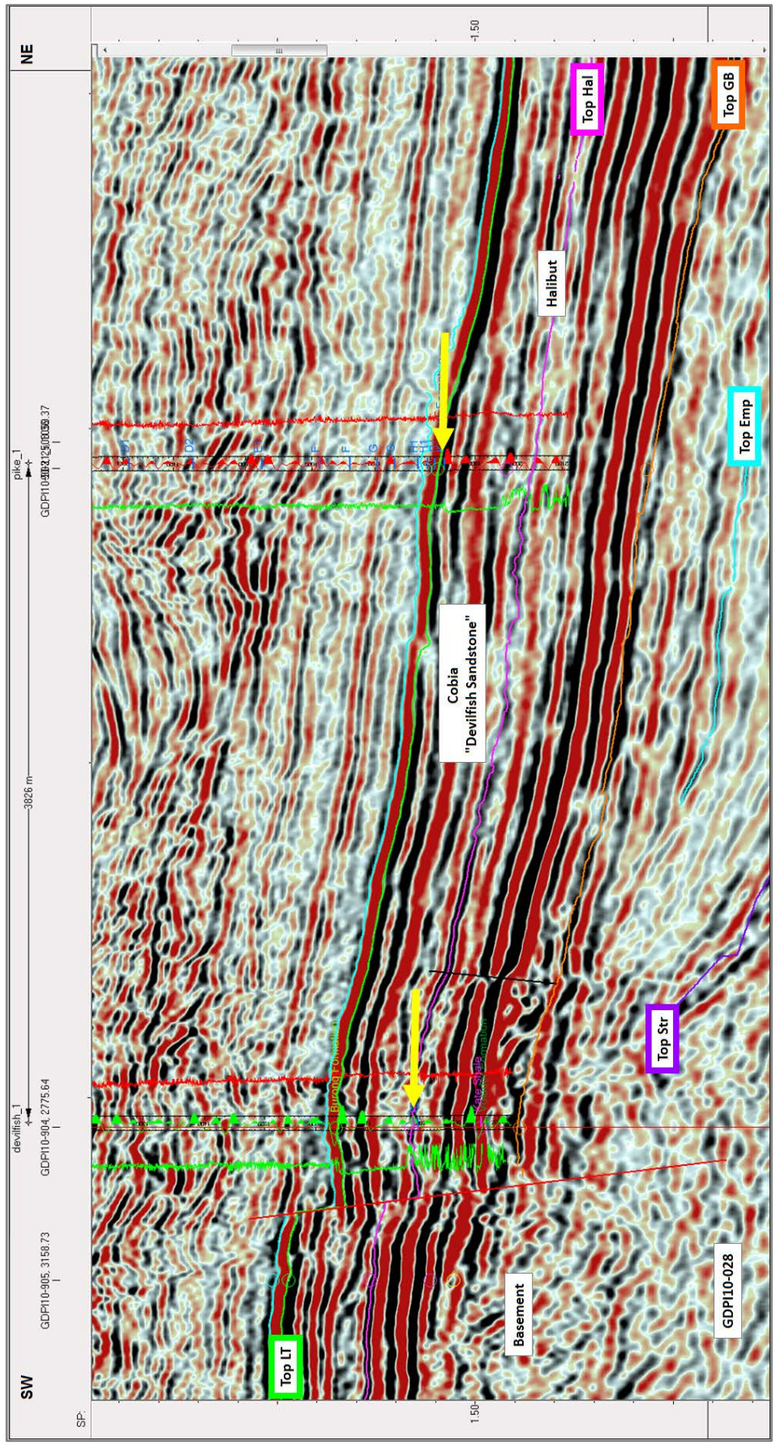

NE
SW
Top Hal
Top GB
Top Emp
Halibut
Cobia
"Devilfish Sandstone"
Top Str
Top LT
Basement
GDPI10-028
pike_1
devilfish_1
GDPI10-905, 3158.73
GDPI10-904, 2775.64
3826 m
SP:
1:50
1:500
4800.0

Figure 5.37

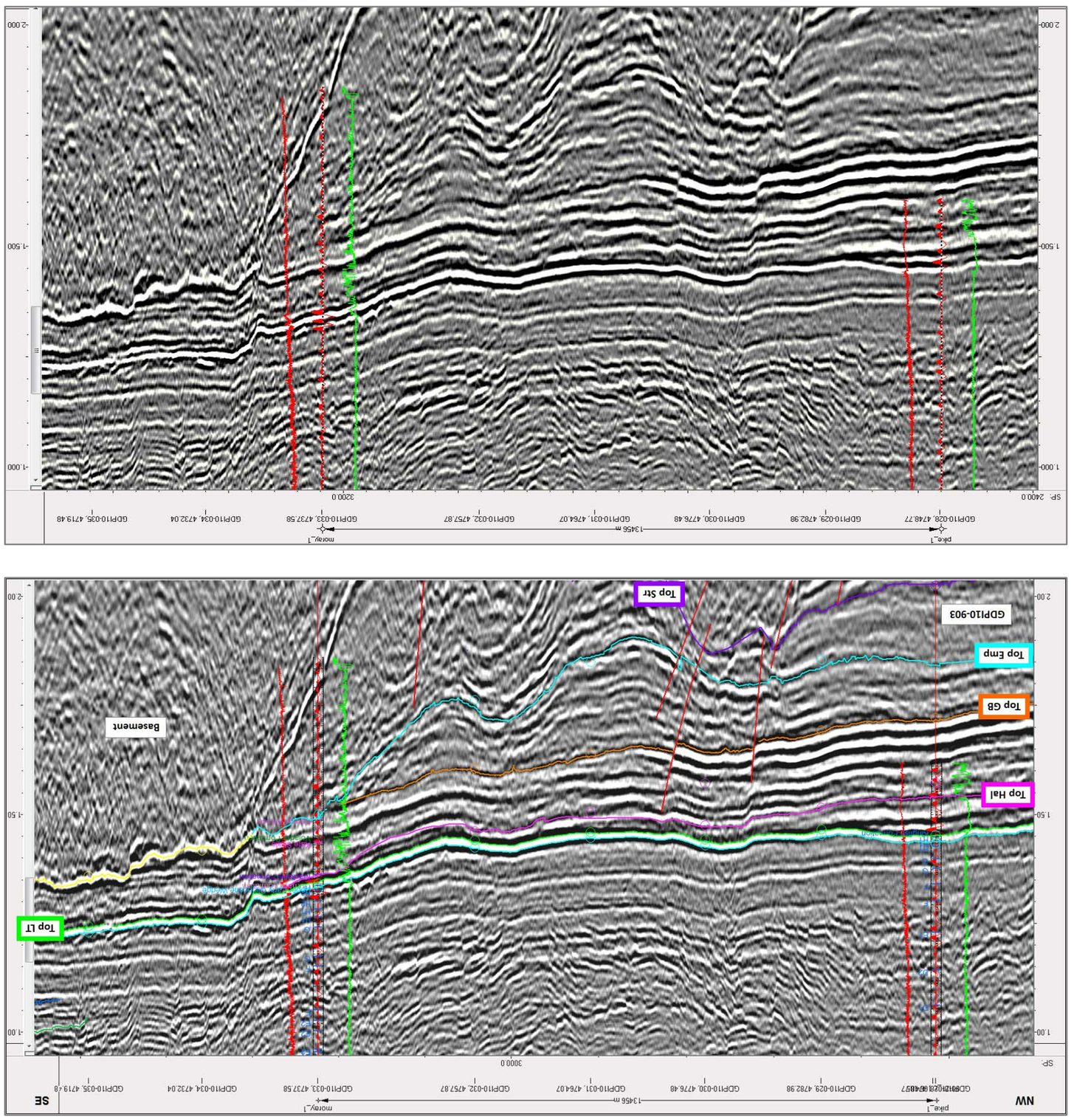

NW
SE
Top LT
Basement
Top Str
GDPI10-903
Top Emp
Top GB
Top Hal
pike_1
morey_1
1345б m
GDPI10-028, 478.77
GDPI10-029, 478.298
GDPI10-030, 477б.48
GDPI10-031, 476.407
GDPI10-032, 475.787
GDPI10-033, 473.758
GDPI10-034, 473.204
GDPI10-035, 471.948
SP: 2400.0
3200.0
3000.0
1.000
1.500
2.000

Figure 5.38

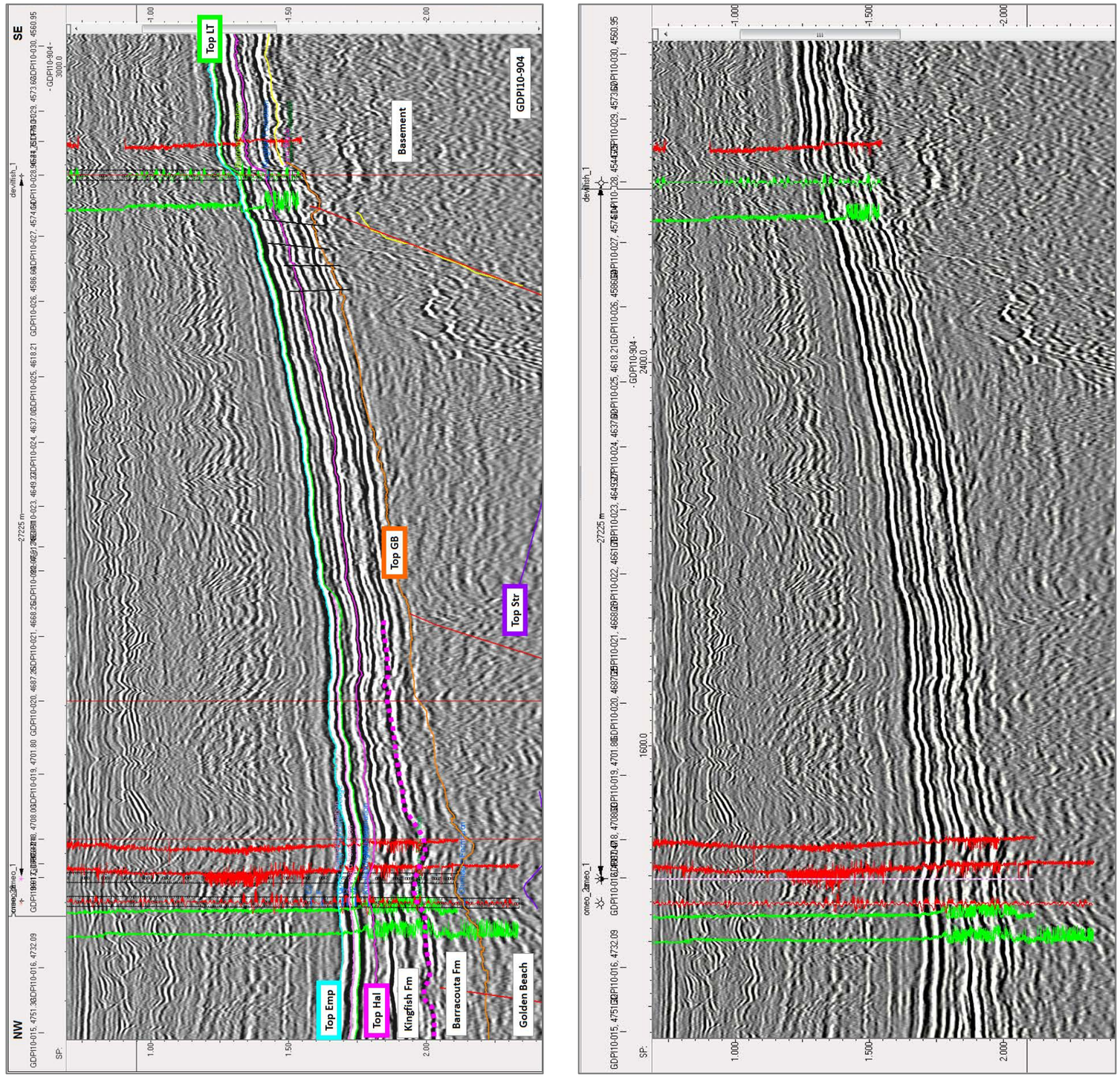

SE
NW
Top LT
Basement
GDPI10-904
Top GB
Top Str
Top Emp
Top Hal
Kingfish Fm
Barracouta Fm
Golden Beach

Figure 5.39

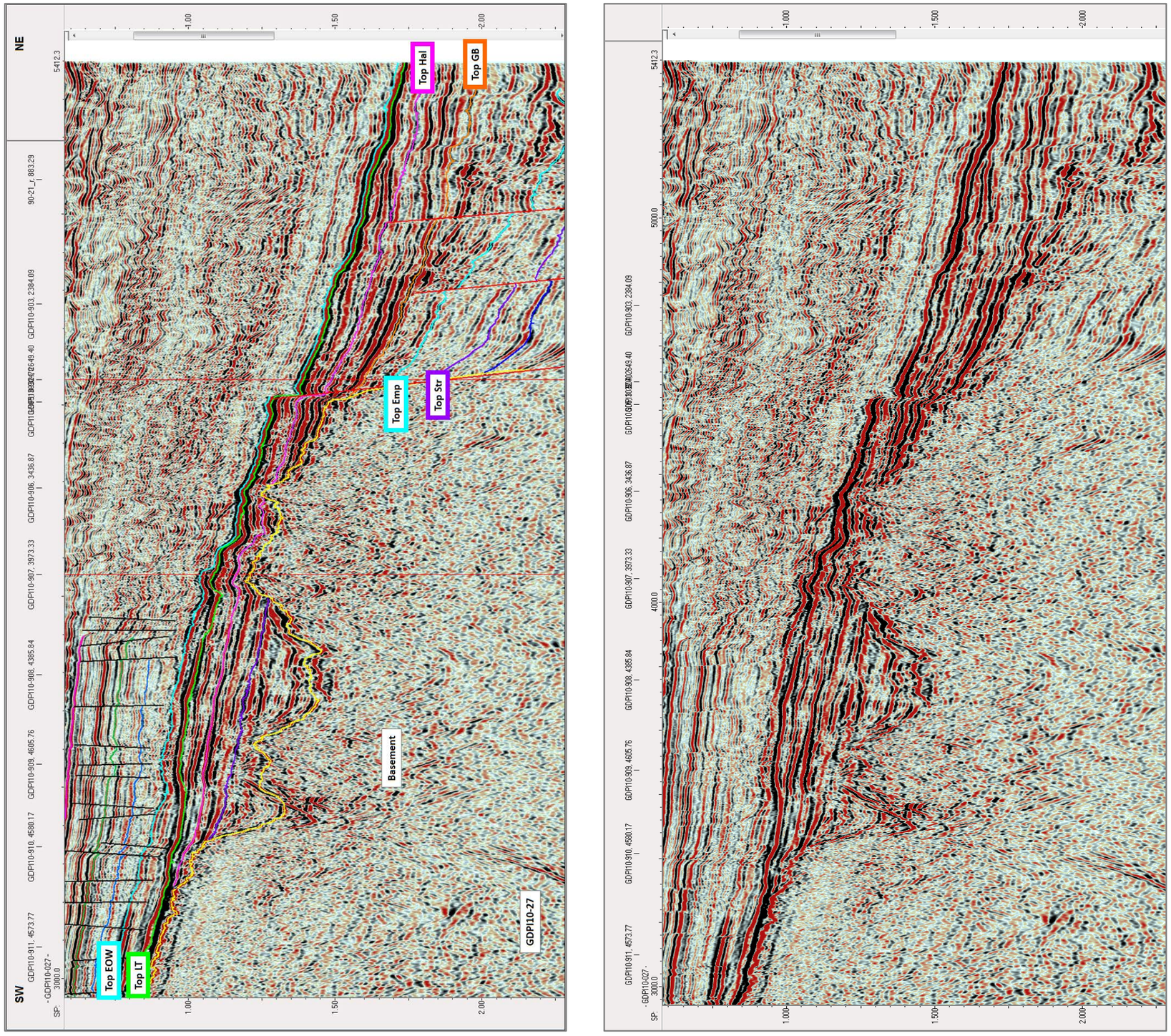
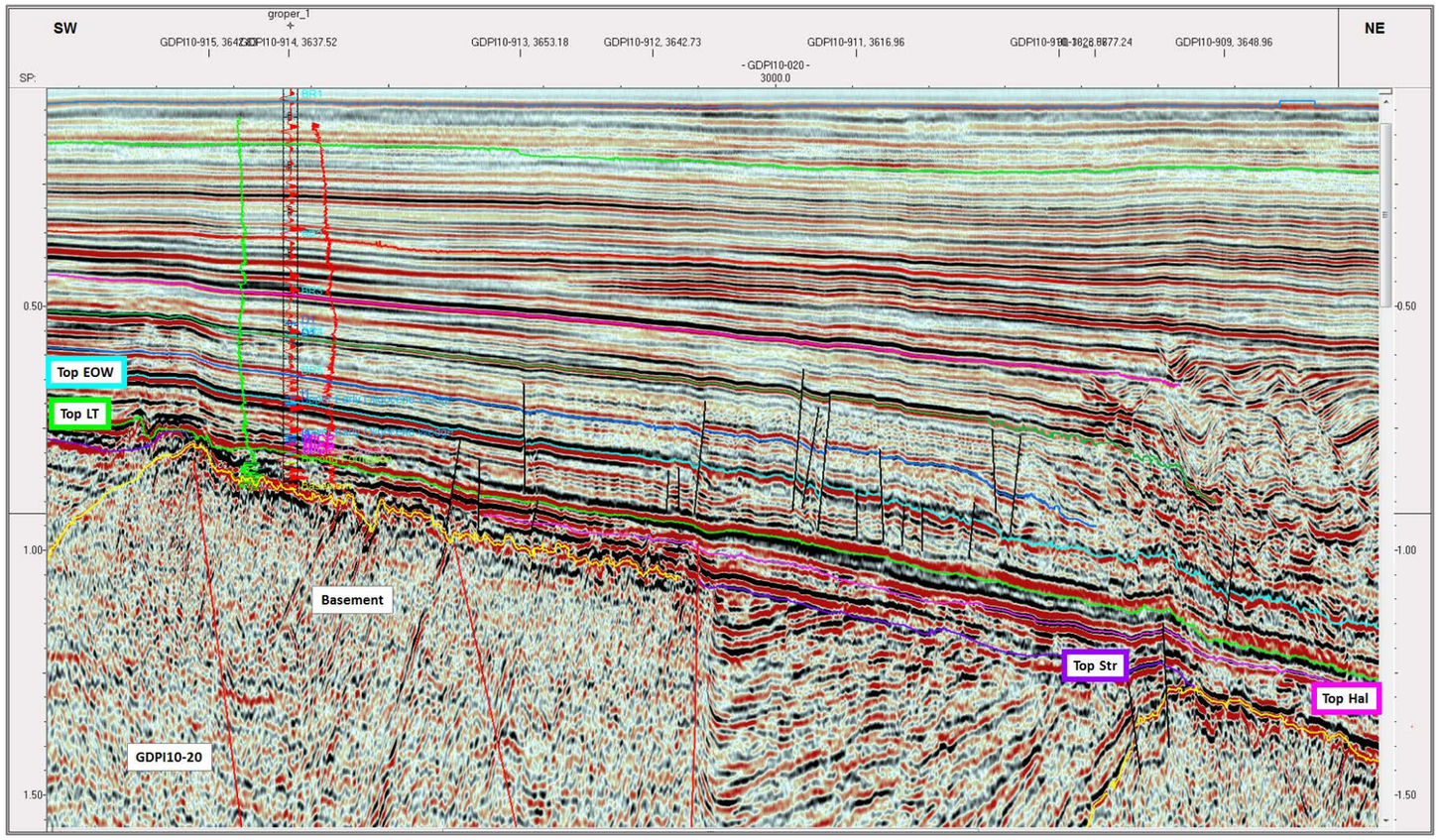
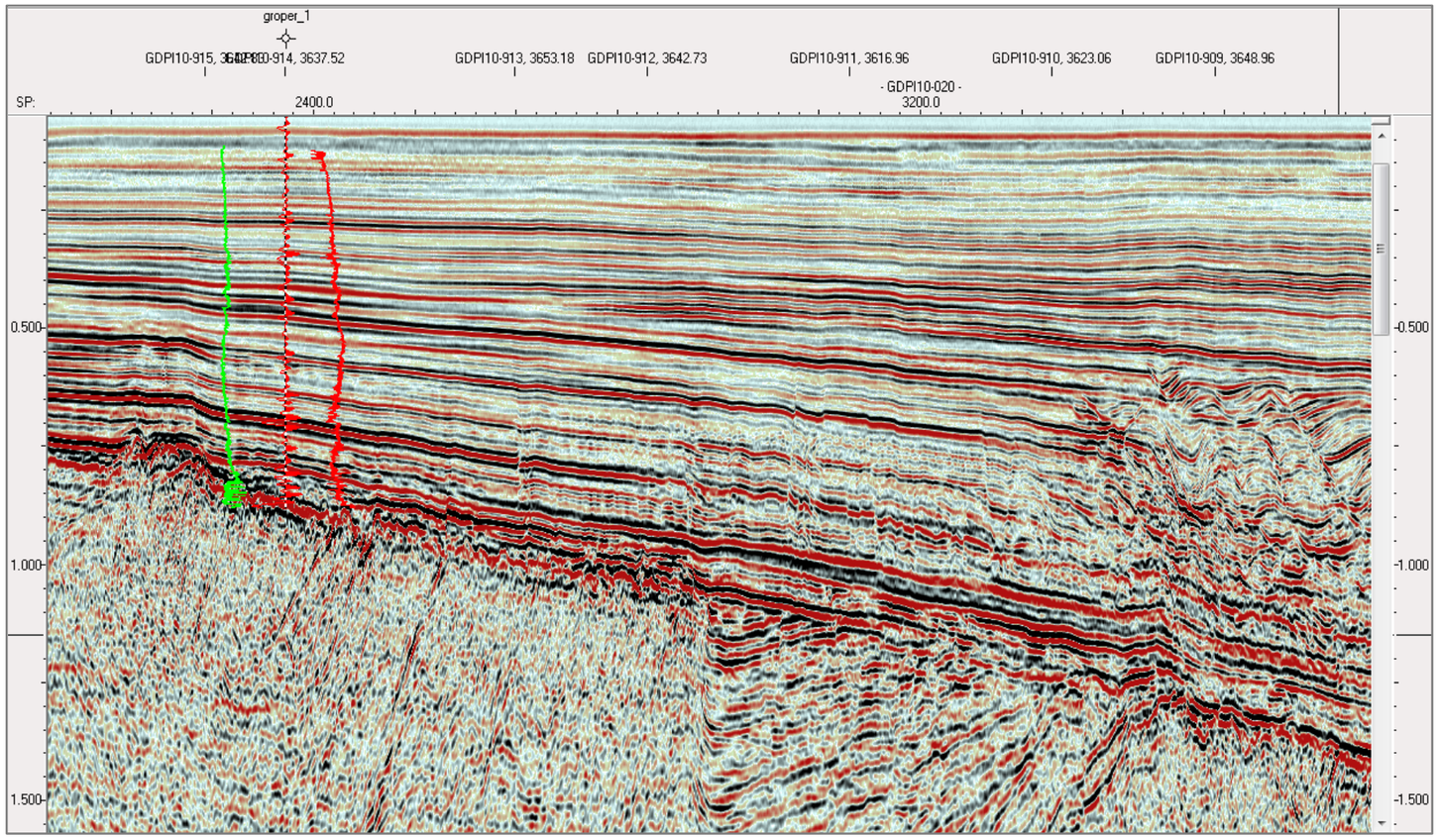
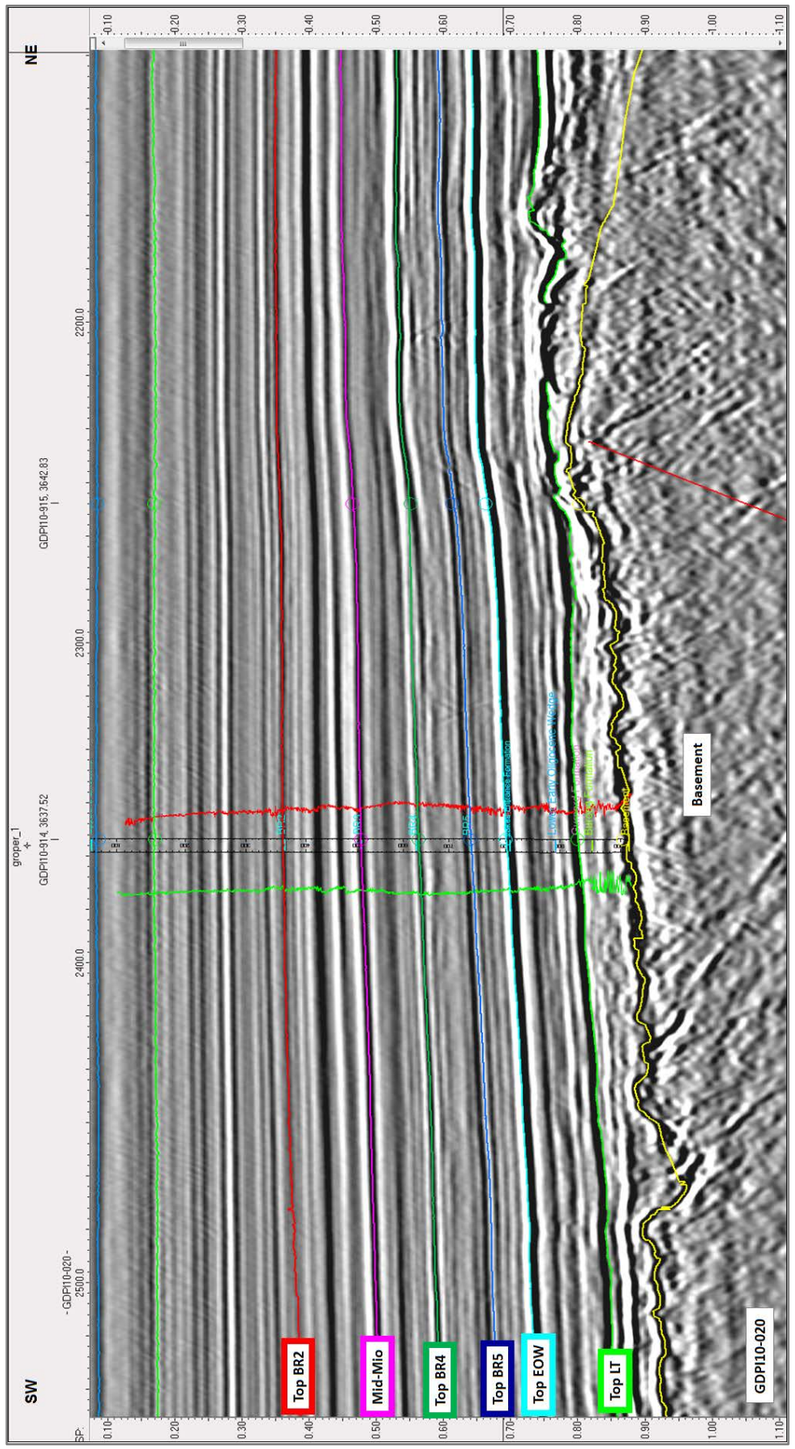

NE
SW
Top Hal
Top GB
Top Emp
Top Str
Top EOW
Top LT
Basement
GDPI10-27
GDPI10-911, 4573.77
GDPI10-910, 4580.17
GDPI10-909, 4605.76
GDPI10-908, 4385.84
GDPI10-907, 3973.33
GDPI10-906, 3436.87
GDPI10-903, 2384.09
90-21_r, 883.29
5412.3
5000.0
4000.0
3000.0
SP:
1.00
1.50
2.00
1.000
1.500
2.000

Figure 5.40

Figure 5.43


SW
NE
groper_1
GDPI10-915, 3642.80
GDPI10-914, 3637.52
GDPI10-913, 3653.18
GDPI10-912, 3642.73
GDPI10-911, 3616.96
GDPI10-910, 3623.06
GDPI10-909, 3648.96
- GDPI10-020 -
3000.0
SP:
0.50
1.00
1.50
Top EOW
Top LT
Basement
Top Str
Top Hal
GDPI10-20


groper_1
GDPI10-915, 3642.80
GDPI10-914, 3637.52
GDPI10-913, 3653.18
GDPI10-912, 3642.73
GDPI10-911, 3616.96
GDPI10-910, 3623.06
GDPI10-909, 3648.96
- GDPI10-020 -
3200.0
SP:
2400.0
0.500
1.000
1.500


NE
SW
GDPI10-915, 3642.83
GDPI10-914, 3637.52
groper_1
GDPI10-020
Basement
Top BR2
Mid-Mio
Top BR4
Top BR5
Top EOW
Top LT
2200.0
2300.0
2400.0
2500.0
SP:

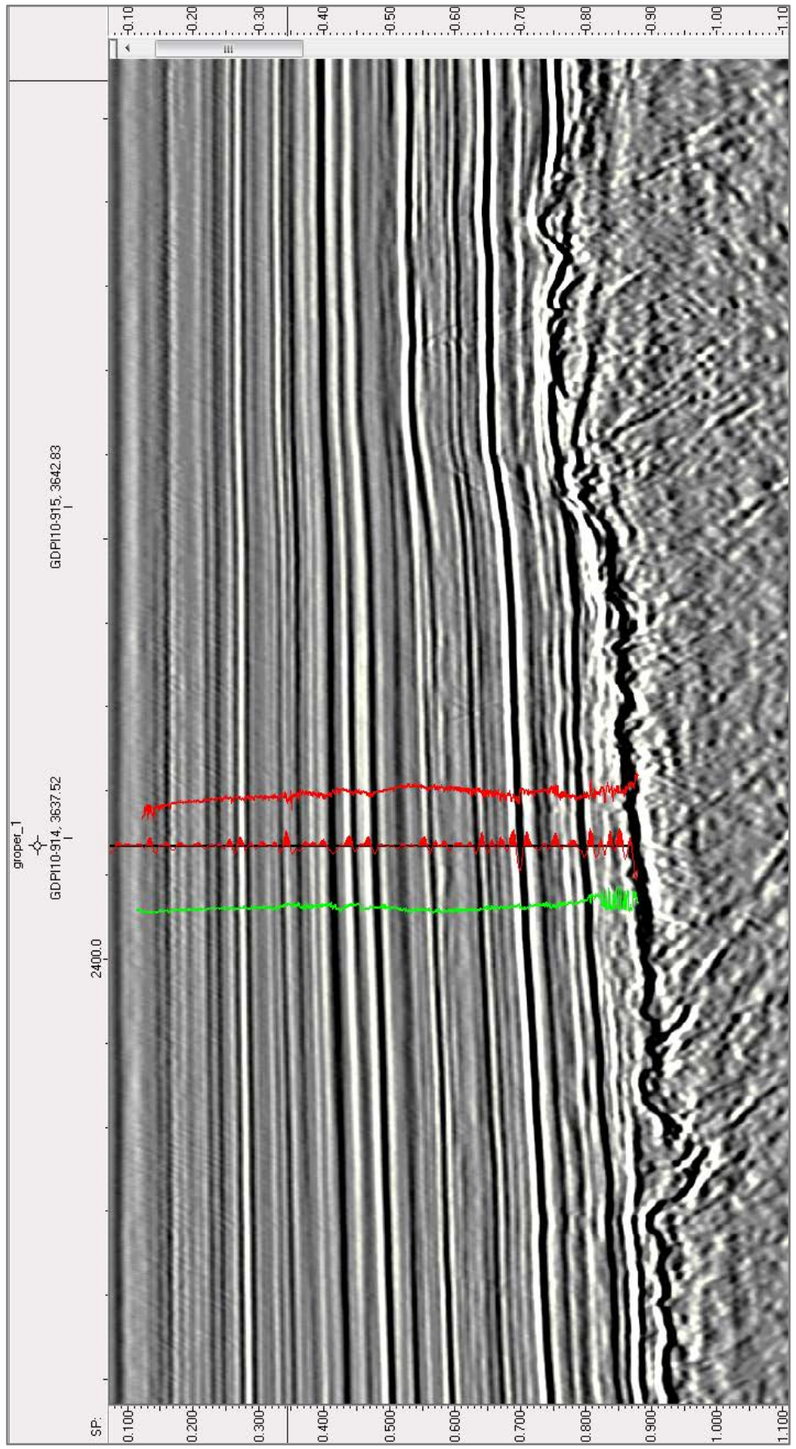

GDPI10-915, 3642.83
GDPI10-914, 3637.52
groper_1
2400.0
SP:

Figure 5.45

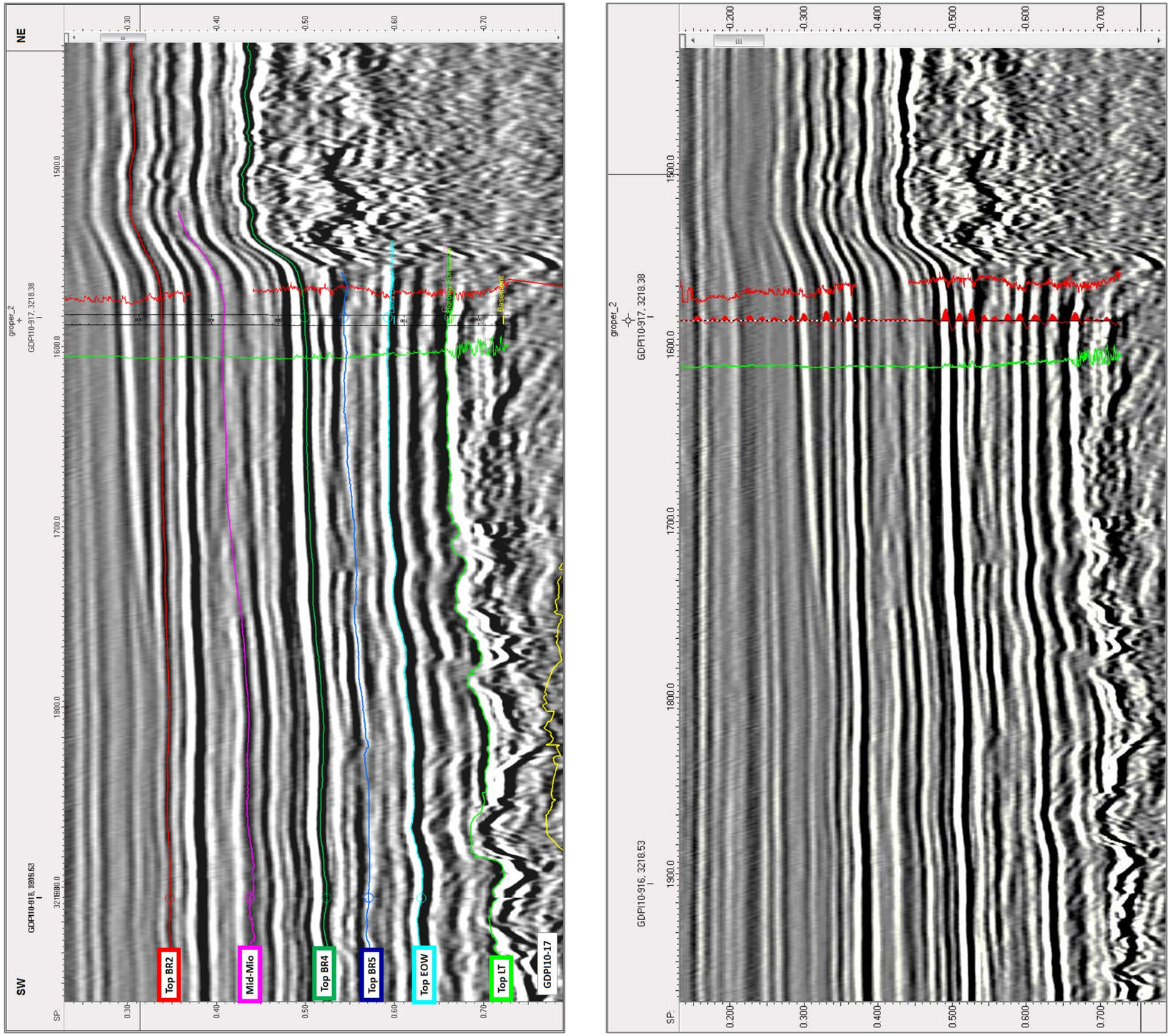

NE
SW
gropet_2
GDPI10-917, 3218.38
GDPI10-916, 3218.53
Top BR2
Mid-Mio
Top BR4
Top BR5
Top EOW
Top LT
GDPI10-17

Figure 5.46

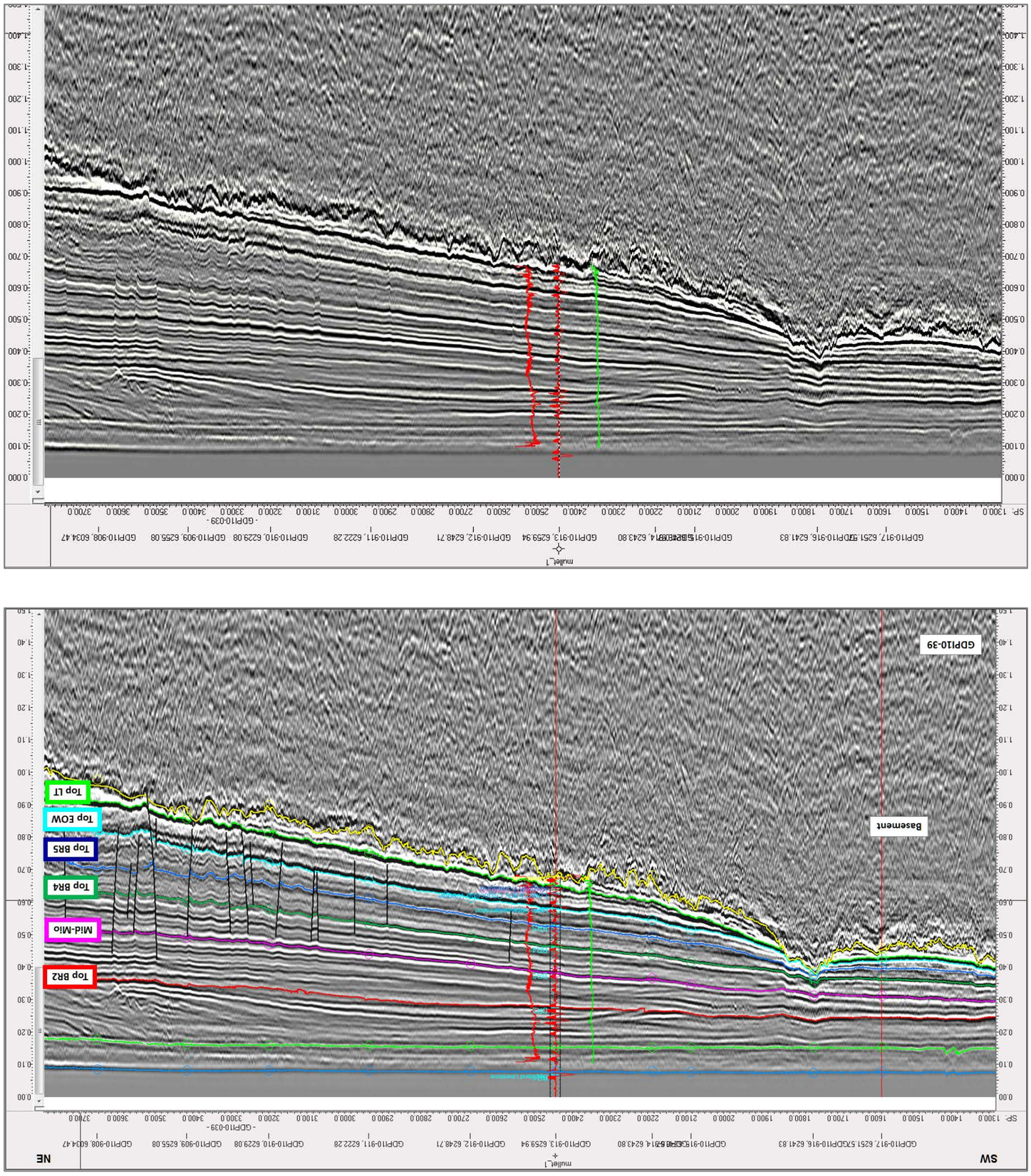
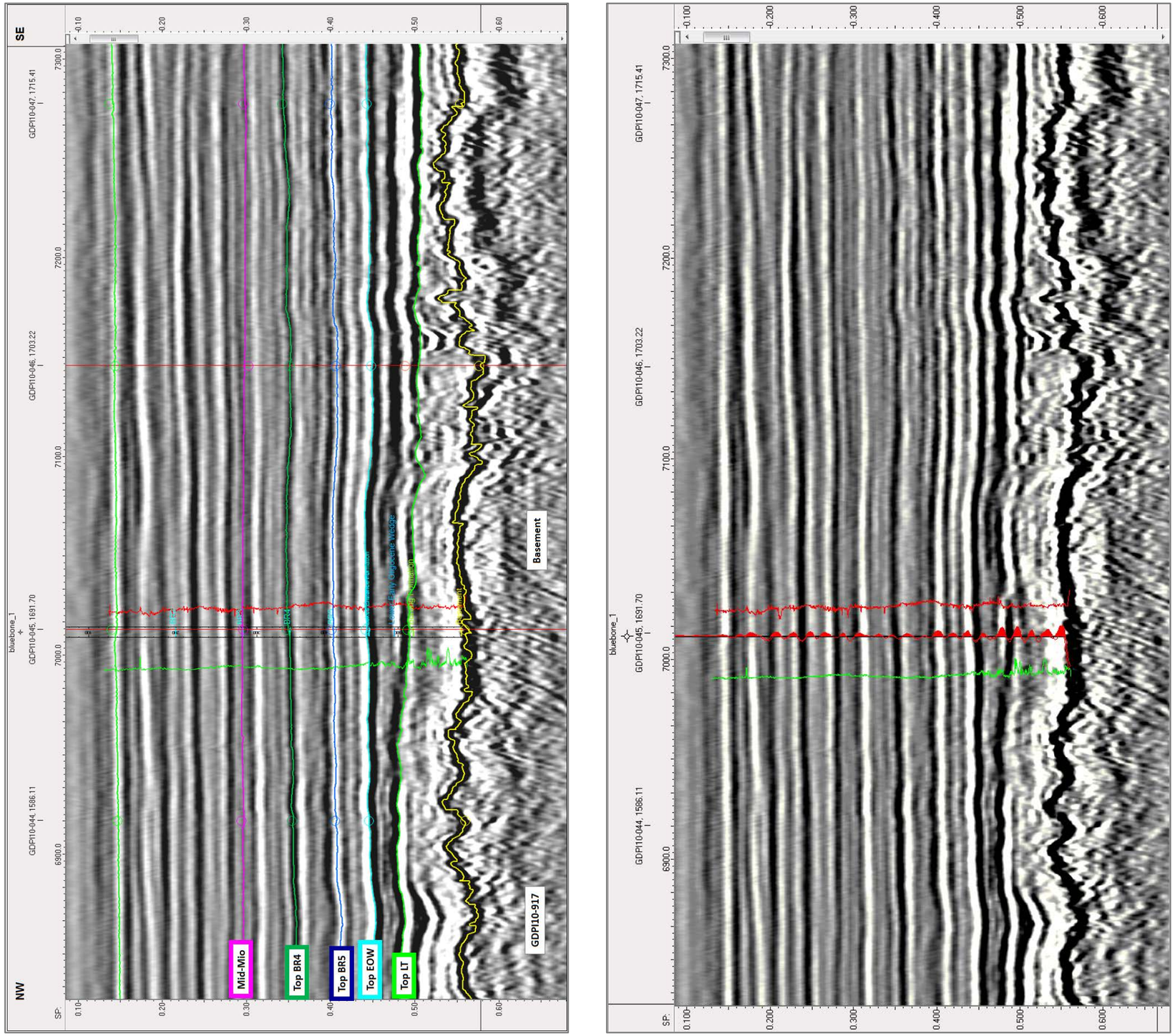

Top LT
Top EOW
Top BR5
Top BR4
Mid-Mio
Top BR2
Basement
GDP10-39
SW
NE

Figure 5.47


SE
NW
GDPI10-047, 1715.41
GDPI10-046, 1703.22
GDPI10-044, 1586.11
bluebone_1
GDPI10-045, 1691.70
7300.0
7200.0
7100.0
7000.0
6900.0
-0.10
-0.20
-0.30
-0.40
-0.50
-0.60
SP:
0.10
0.20
0.30
0.40
0.50
0.60
Mid-Mio
Top BR4
Top BR5
Top EOW
Top LT
Basement
GDPI10-917

GDPI10-047, 1715.41
GDPI10-046, 1703.22
GDPI10-044, 1586.11
bluebone_1
GDPI10-045, 1691.70
7300.0
7200.0
7100.0
7000.0
6900.0
-0.100
-0.200
-0.300
-0.400
-0.500
-0.600
SP:
0.100
0.200
0.300
0.400
0.500
0.600

Figure 5.48

Figure 5.49

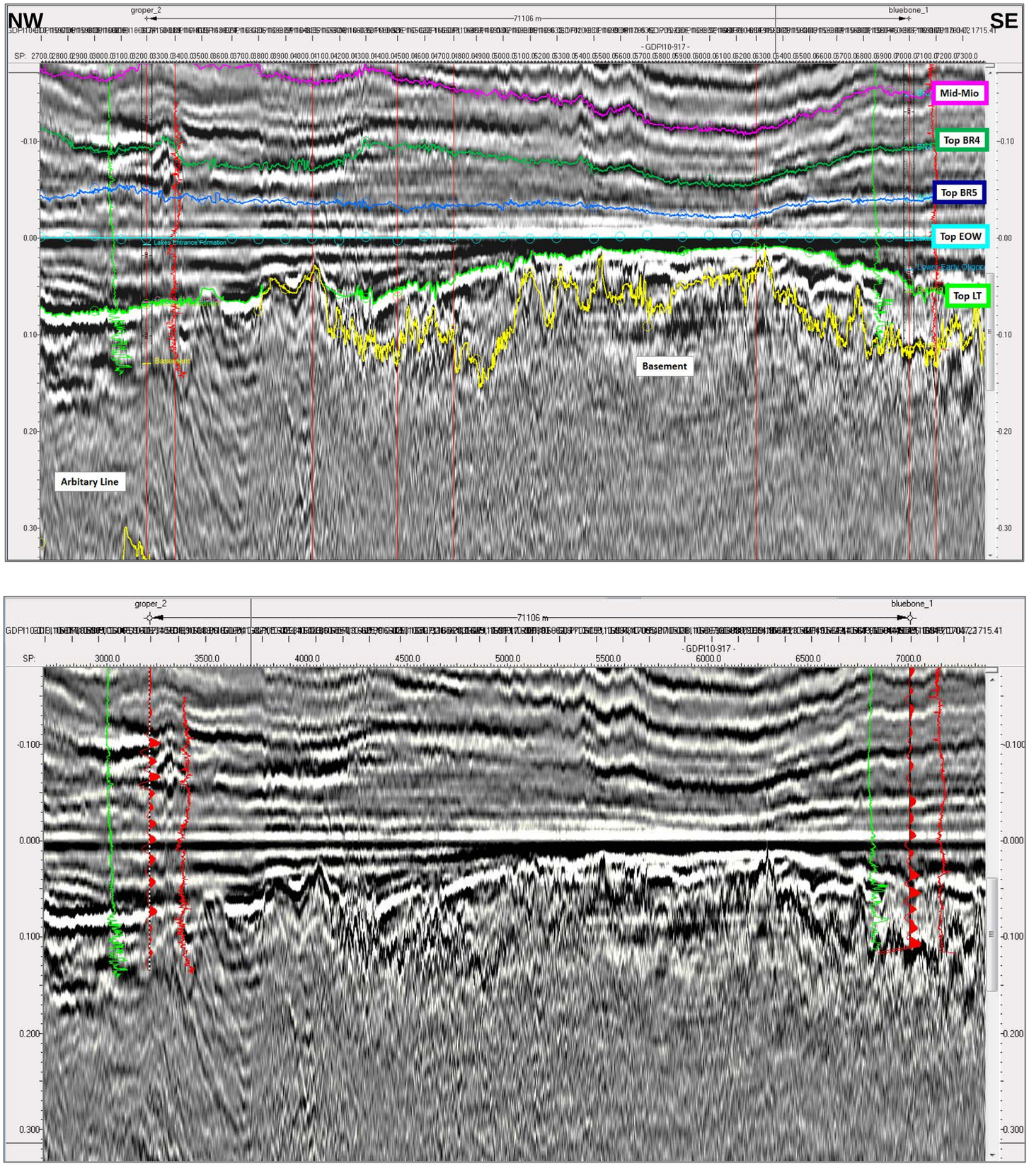
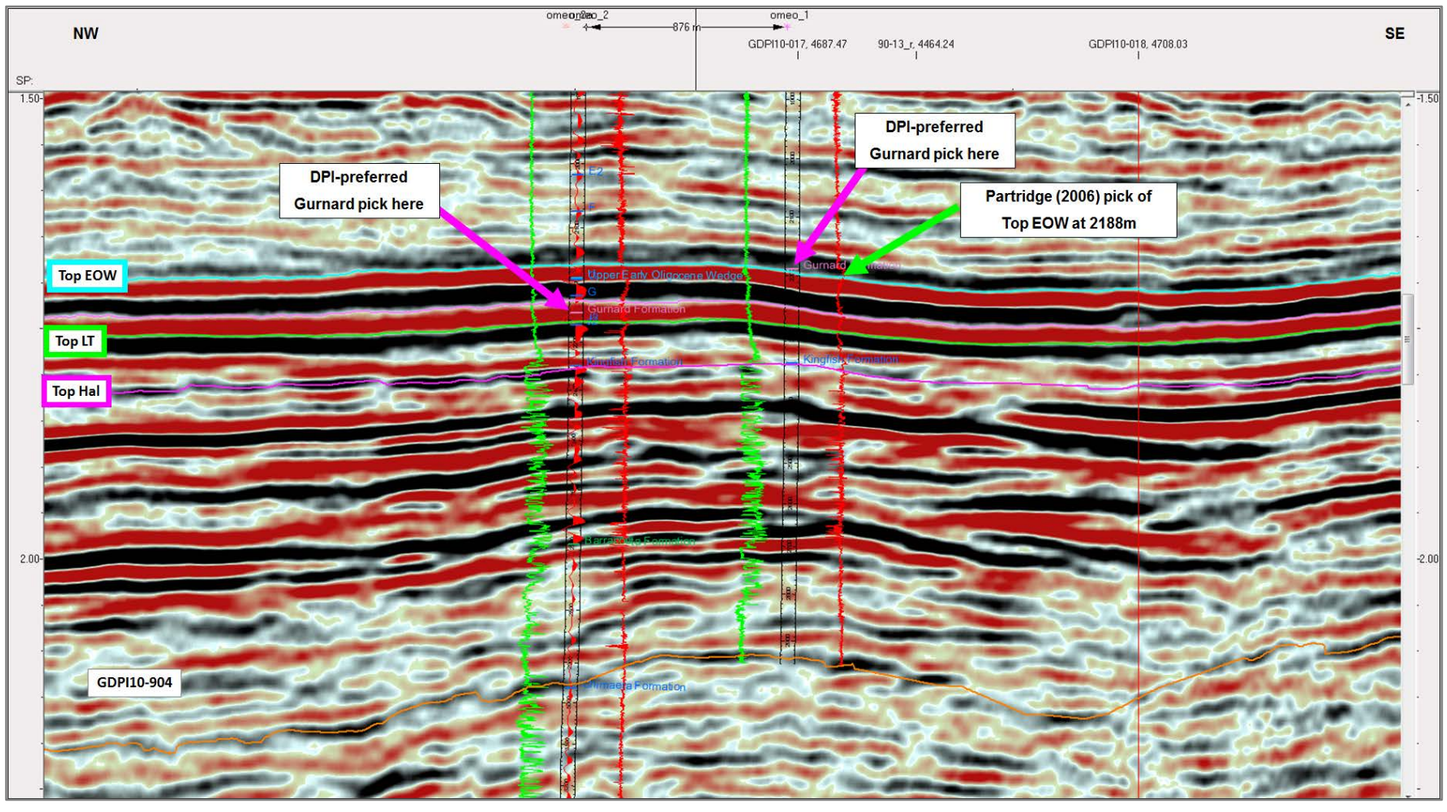

NW
SE
groper_2
bluebone_1
71106 m
- GDP110-917 -
SP:
Mid-Mio
Top BR4
Top BR5
Top EOW
Top LT
Lakes Entrance Formation
Basement
Arbitary Line

Figure 5.50


NW
SE
omeo_2a
omeo_1
876 m
GDPI10-017, 4687.47
90-13_r, 4464.24
GDPI10-018, 4708.03
SP:
1.50
2.00
DPI-preferred
Gurnard pick here
DPI-preferred
Gurnard pick here
Partridge (2006) pick of
Top EOW at 2188m
Top EOW
Top LT
Top Hal
Upper Early Oligocene Wedge
Gurnard Formation
Kingfish Formation
GDPI10-904

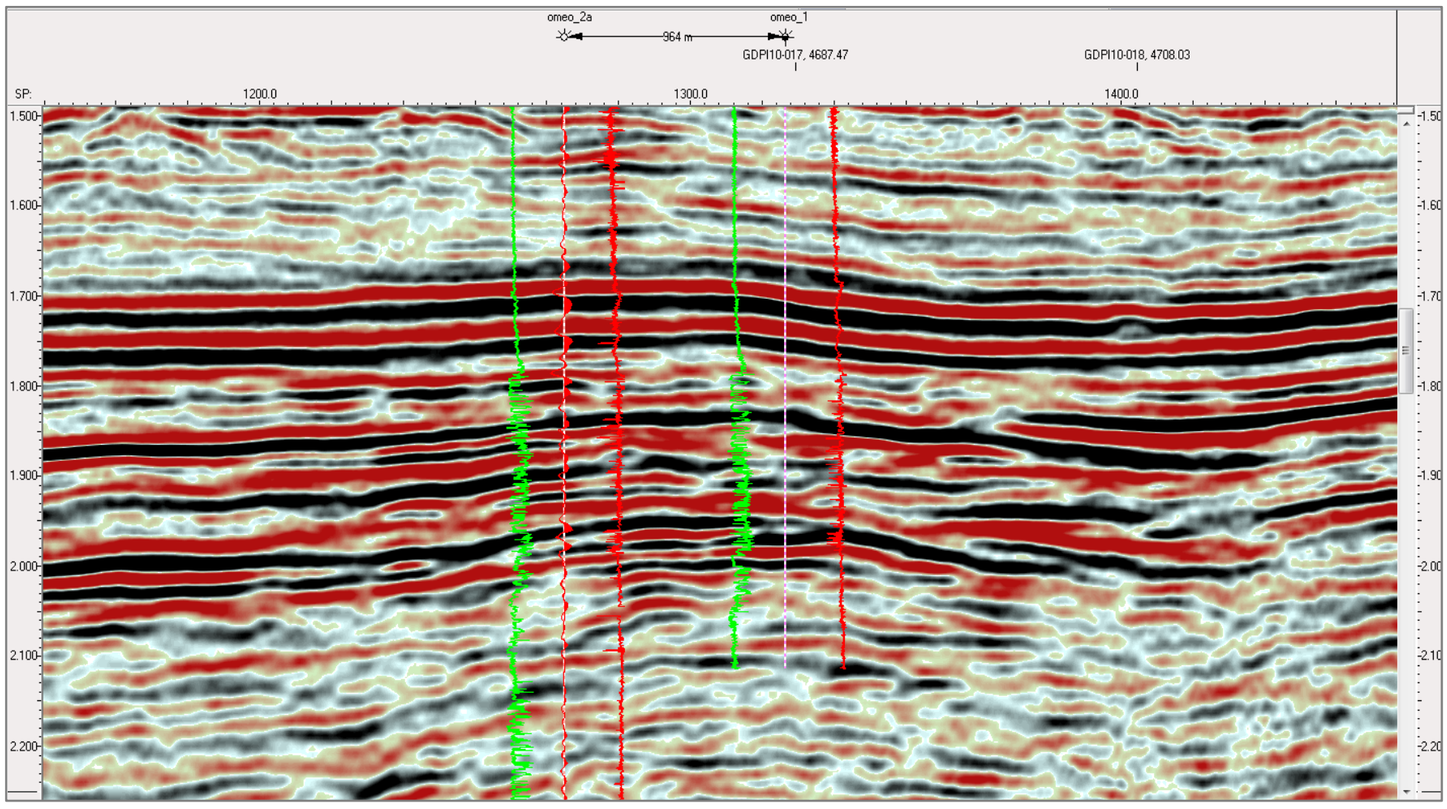
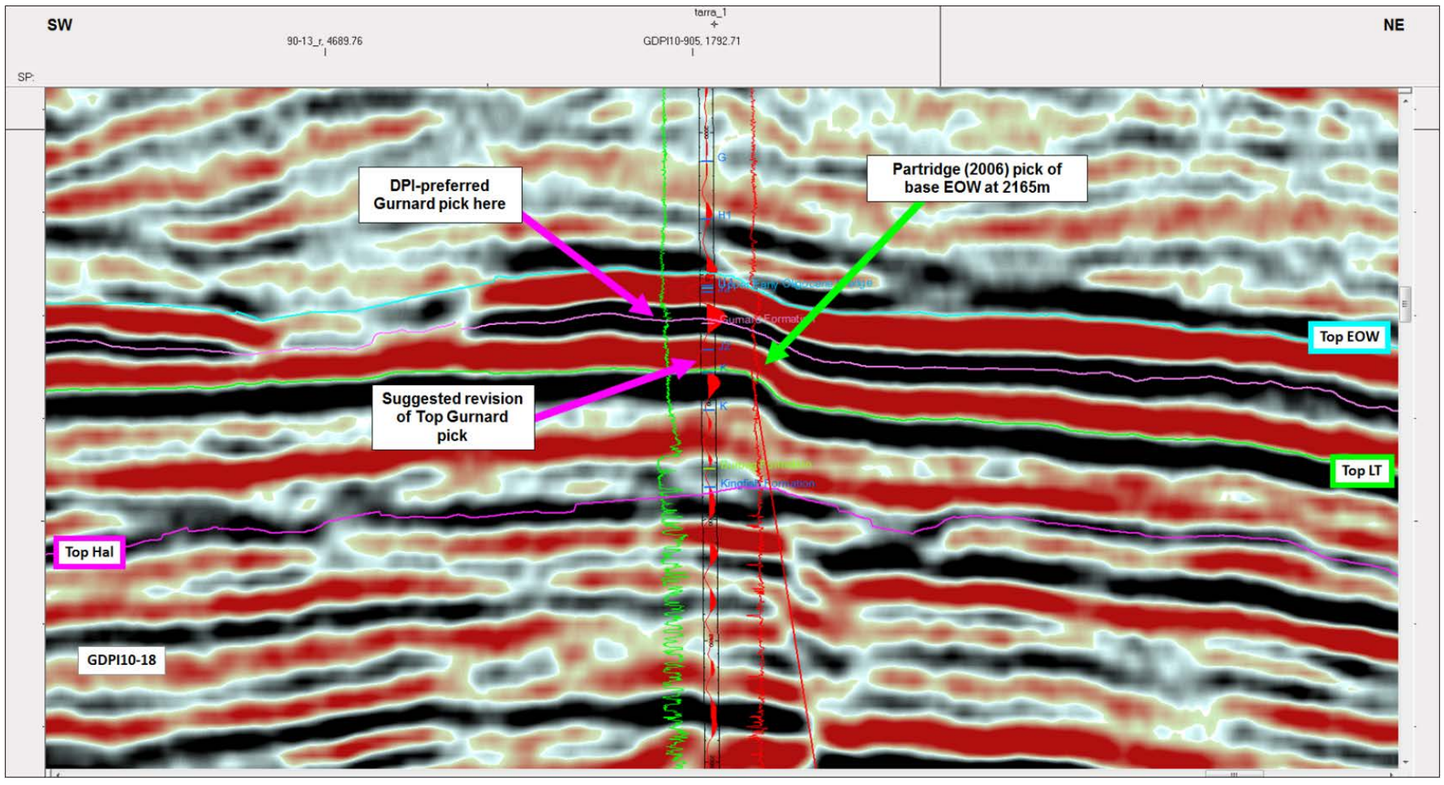
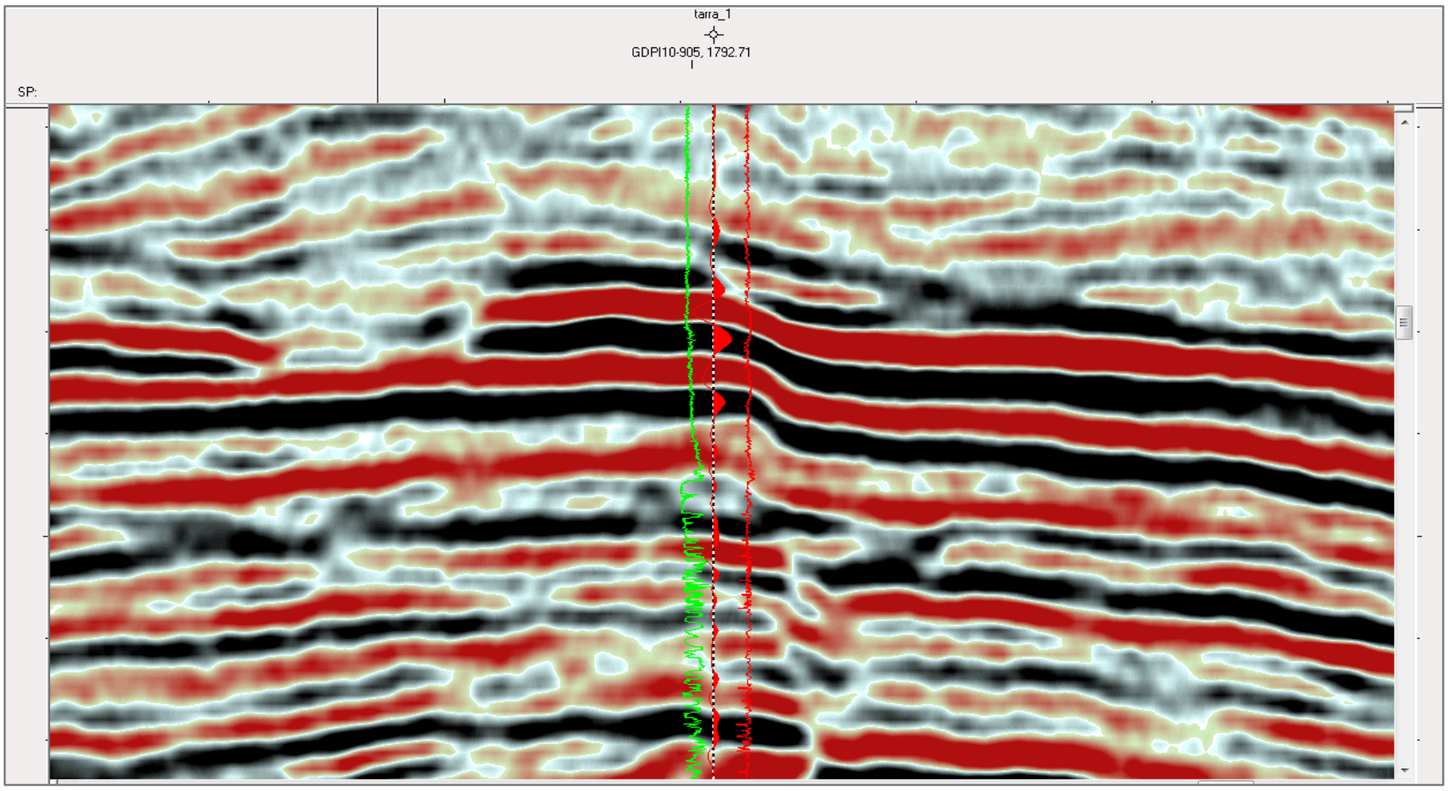
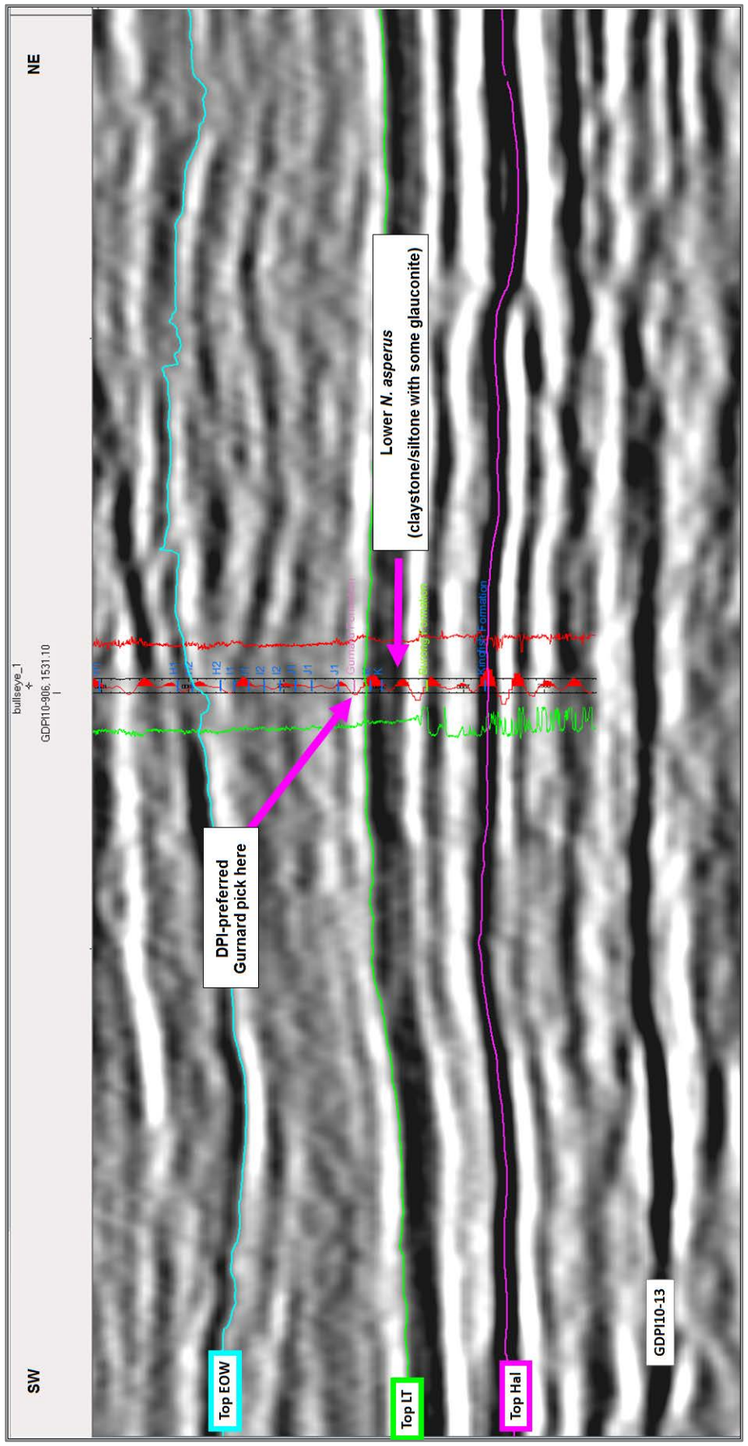

omeo_2a
omeo_1
964 m
GDPI10-017, 4687.47
GDPI10-018, 4708.03
SP:
1200.0
1300.0
1400.0
1.500
1.600
1.700
1.800
1.900
2.000
2.100
2.200

Figure 5.51


SW
NE
tarra_1
90-13_r, 4689.76
GDPI10-905, 1792.71
SP:
DPI-preferred Gurnard pick here
Partridge (2006) pick of base EOW at 2165m
Suggested revision of Top Gurnard pick
Top EOW
Top LT
Top Hal
GDPI10-18
G
H1
K
Kingfish Formation


tarra_1
GDPI10-905, 1792.71
SP:


NE
SW
bullseye_1
GDPI10-906, 1531.10
Lower N. asperus
(claystone/siltone with some glauconite)
DPI-preferred
Gurnard pick here
Top EOW
Top LT
Top Hal
GDPI10-13

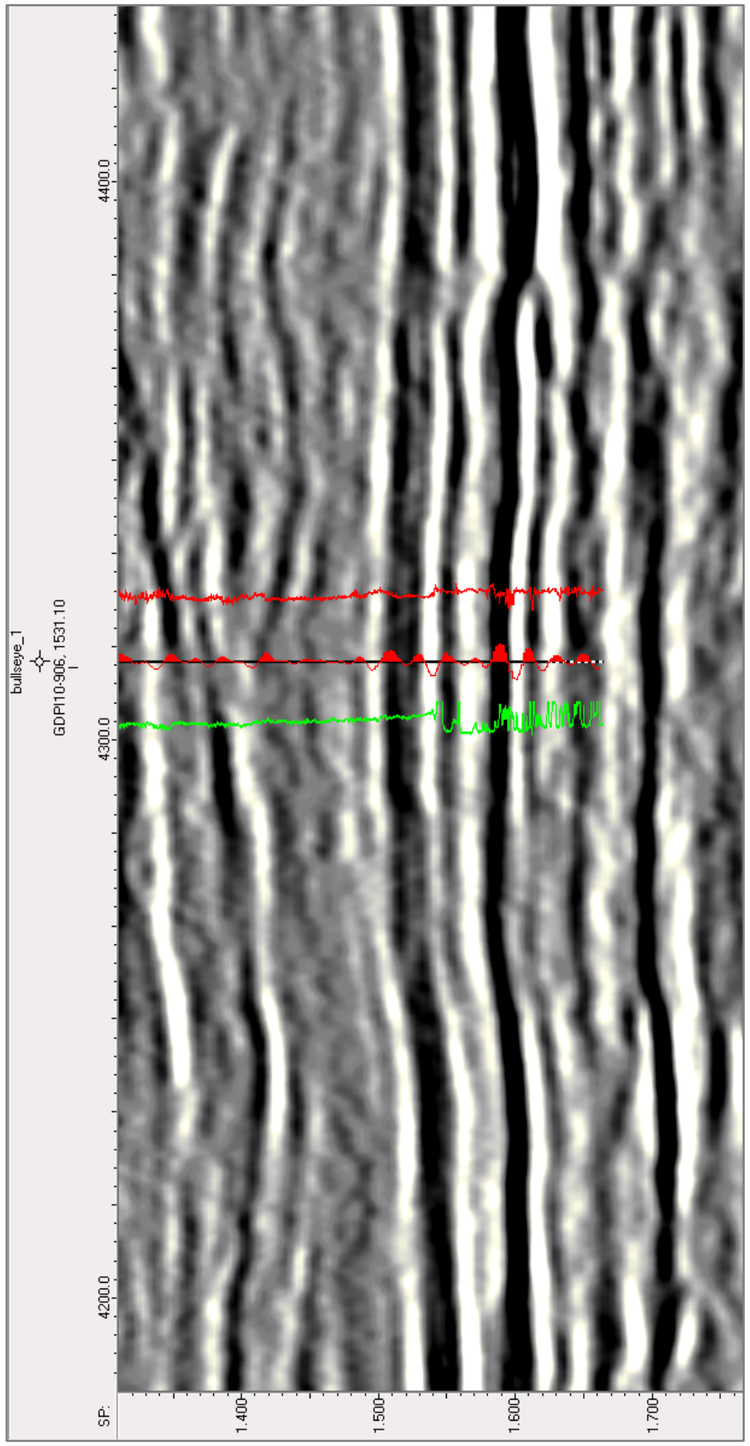
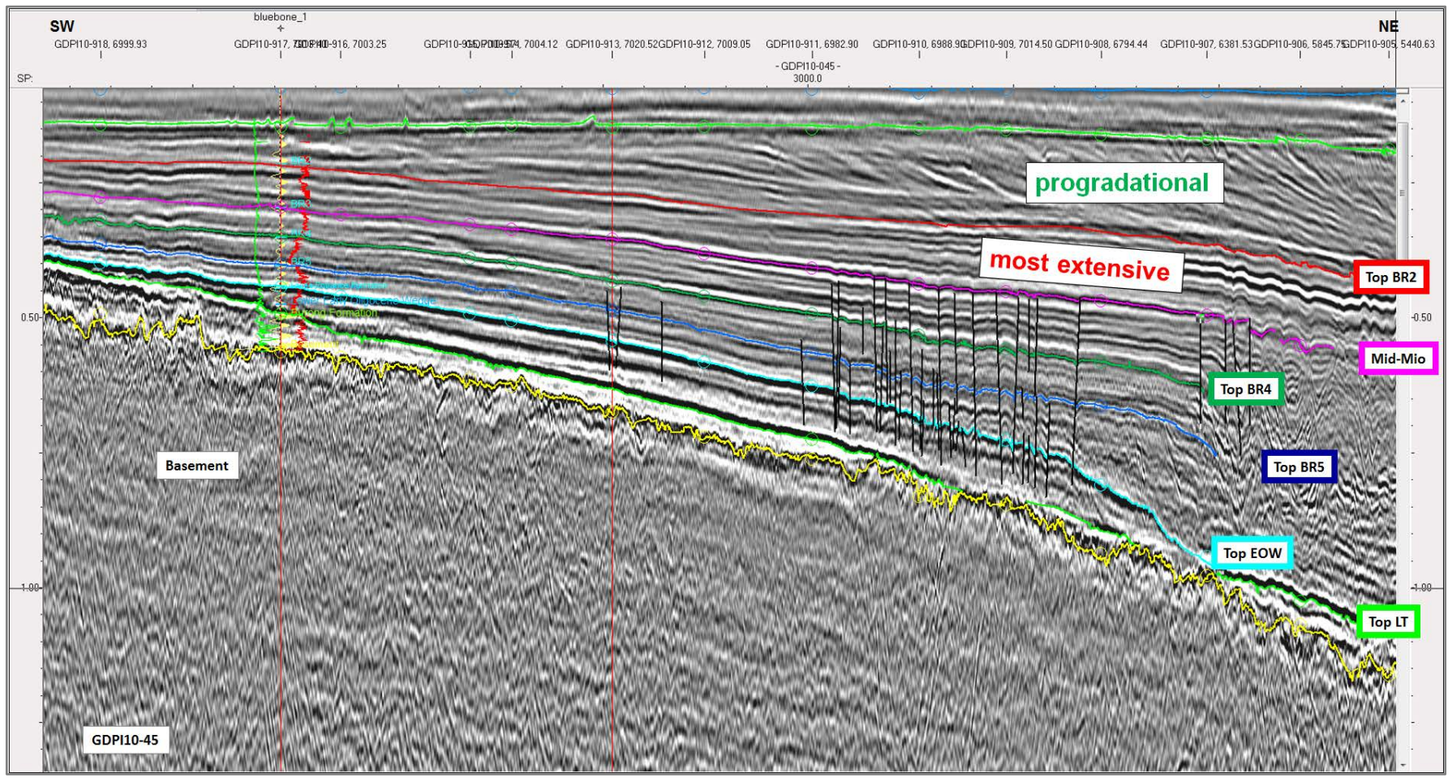
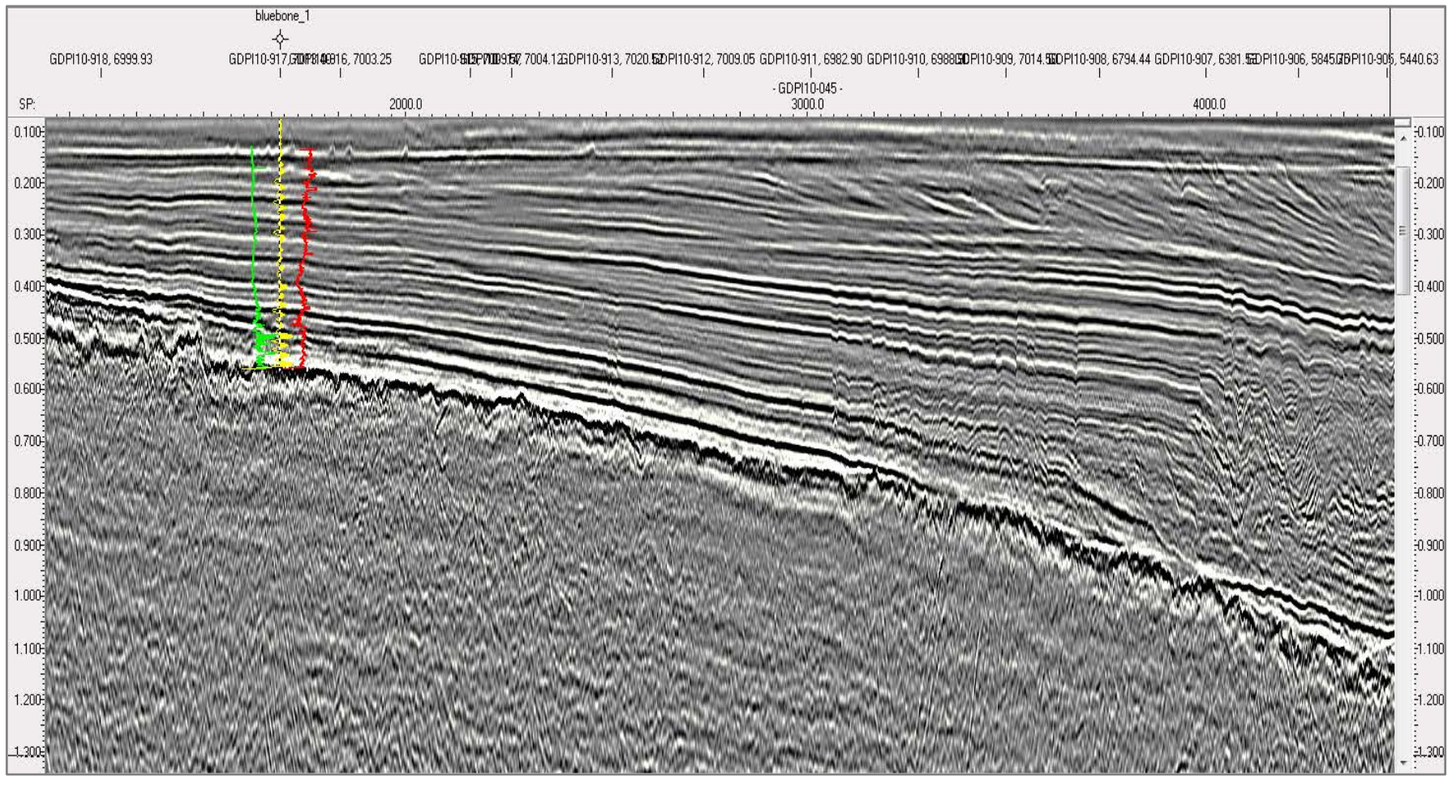
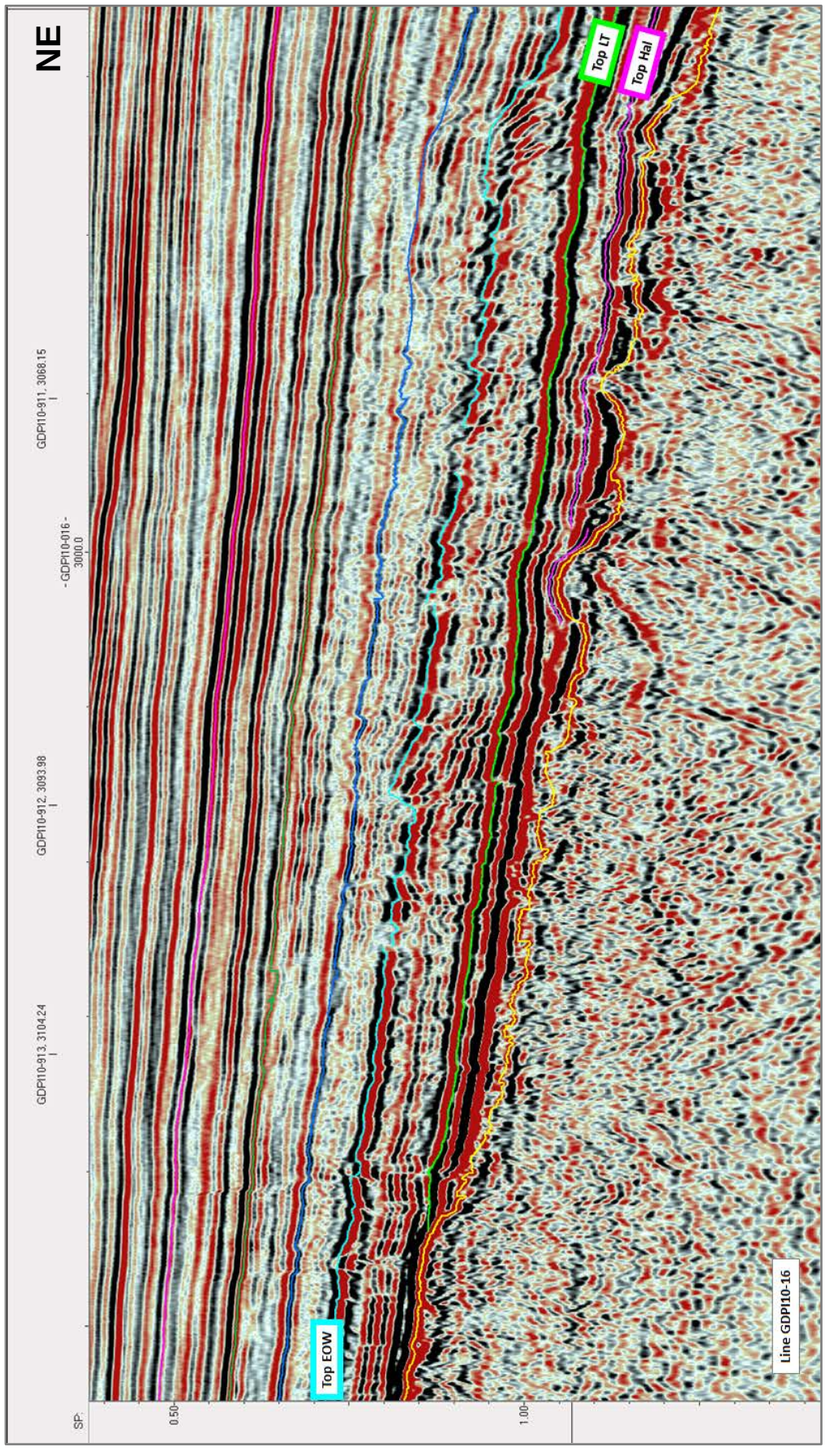

bullseye_1
GDPI10-906, 1531.10
4400.0
4300.0
4200.0
1.400
1.500
1.600
1.700

Figure 5.52

Figure 5.53


SW
NE
bluebone_1
GDPI10-918, 6999.93
GDPI10-917, 7004.12
GDPI10-916, 7003.25
GDPI10-913, 7020.52
GDPI10-912, 7009.05
GDPI10-911, 6982.90
GDPI10-910, 6988.90
GDPI10-909, 7014.50
GDPI10-908, 6794.44
GDPI10-907, 6381.53
GDPI10-906, 5845.75
GDPI10-905, 5440.63
- GDPI10-045 -
SP:
3000.0
progradational
most extensive
Top BR2
Mid-Mio
Top BR4
Top BR5
Top EOW
Top LT
Basement
GDPI10-45
0.50
1.00


bluebone_1
GDPI10-918, 6999.93
GDPI10-917, 7004.12
GDPI10-916, 7003.25
GDPI10-913, 7020.52
GDPI10-912, 7009.05
GDPI10-911, 6982.90
GDPI10-910, 6988.90
GDPI10-909, 7014.50
GDPI10-908, 6794.44
GDPI10-907, 6381.53
GDPI10-906, 5845.75
GDPI10-905, 5440.63
- GDPI10-045 -
SP:
2000.0
3000.0
4000.0
0.100
0.200
0.300
0.400
0.500
0.600
0.700
0.800
0.900
1.000
1.100
1.200
1.300


NE
GDPI10-911_3068.15
GDPI10-016 - 3000.0
GDPI10-912_3093.98
GDPI10-913_3104.24
Top LT
Top Hal
Top EOW
Line GDPI10-16
SP:
0.50
1.00

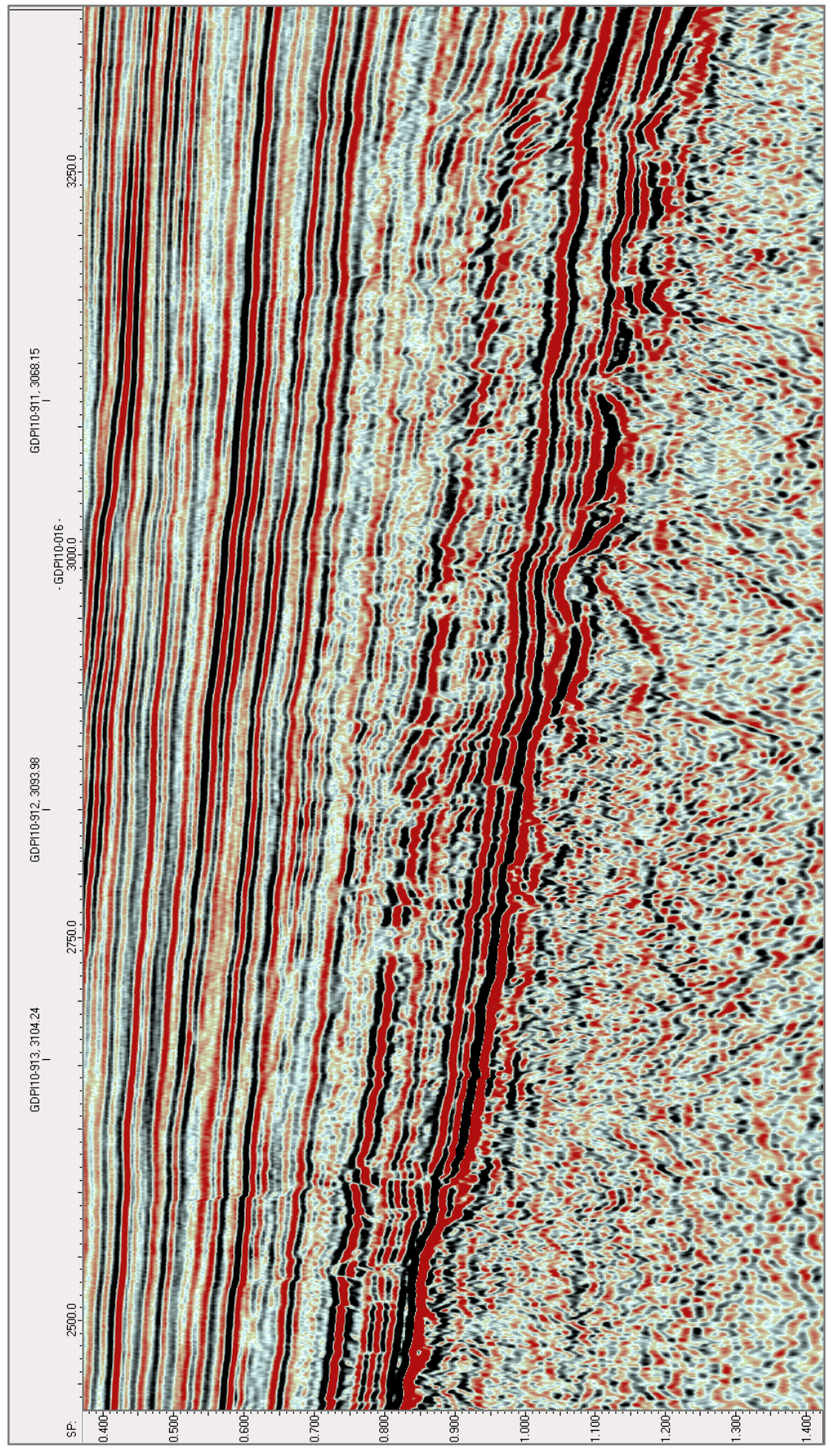
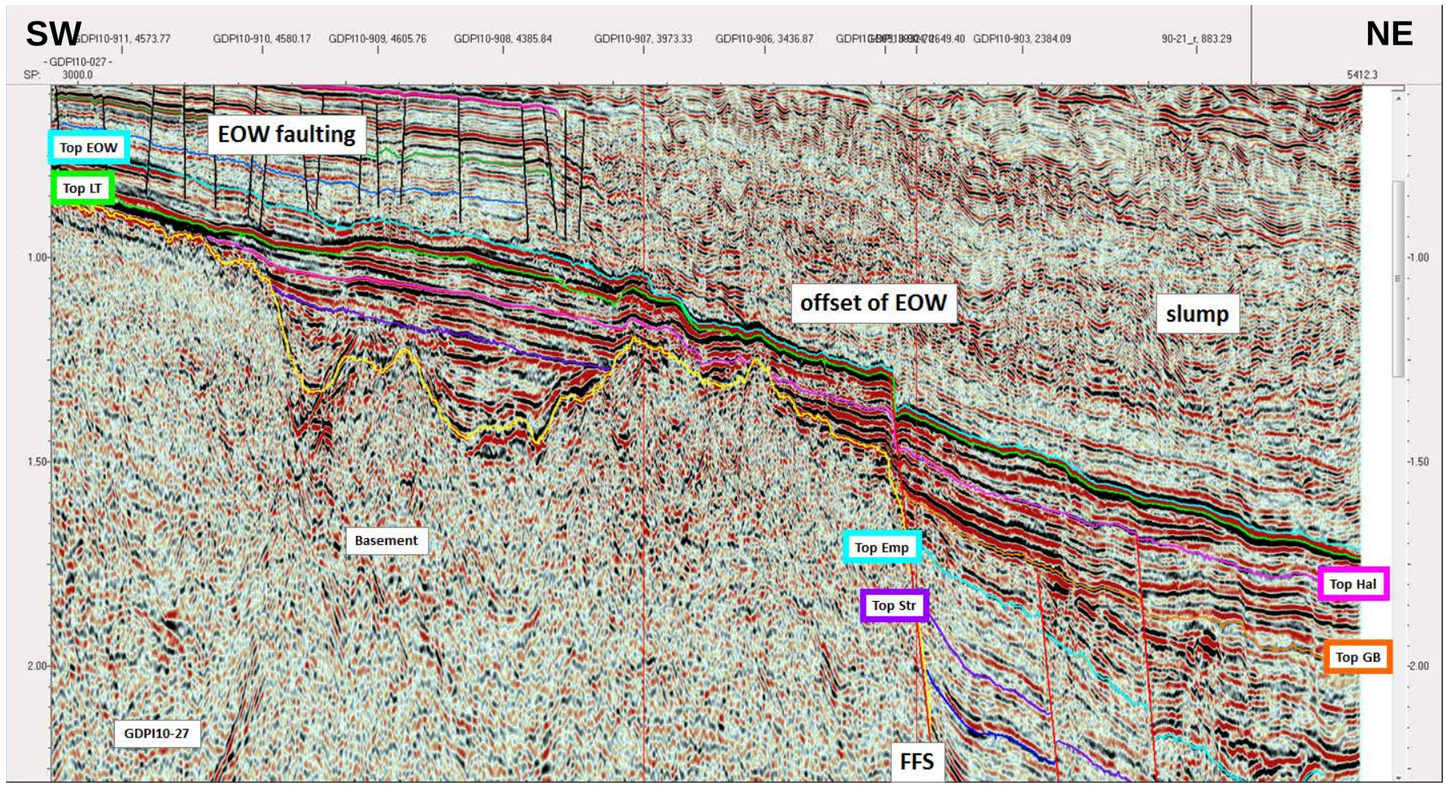
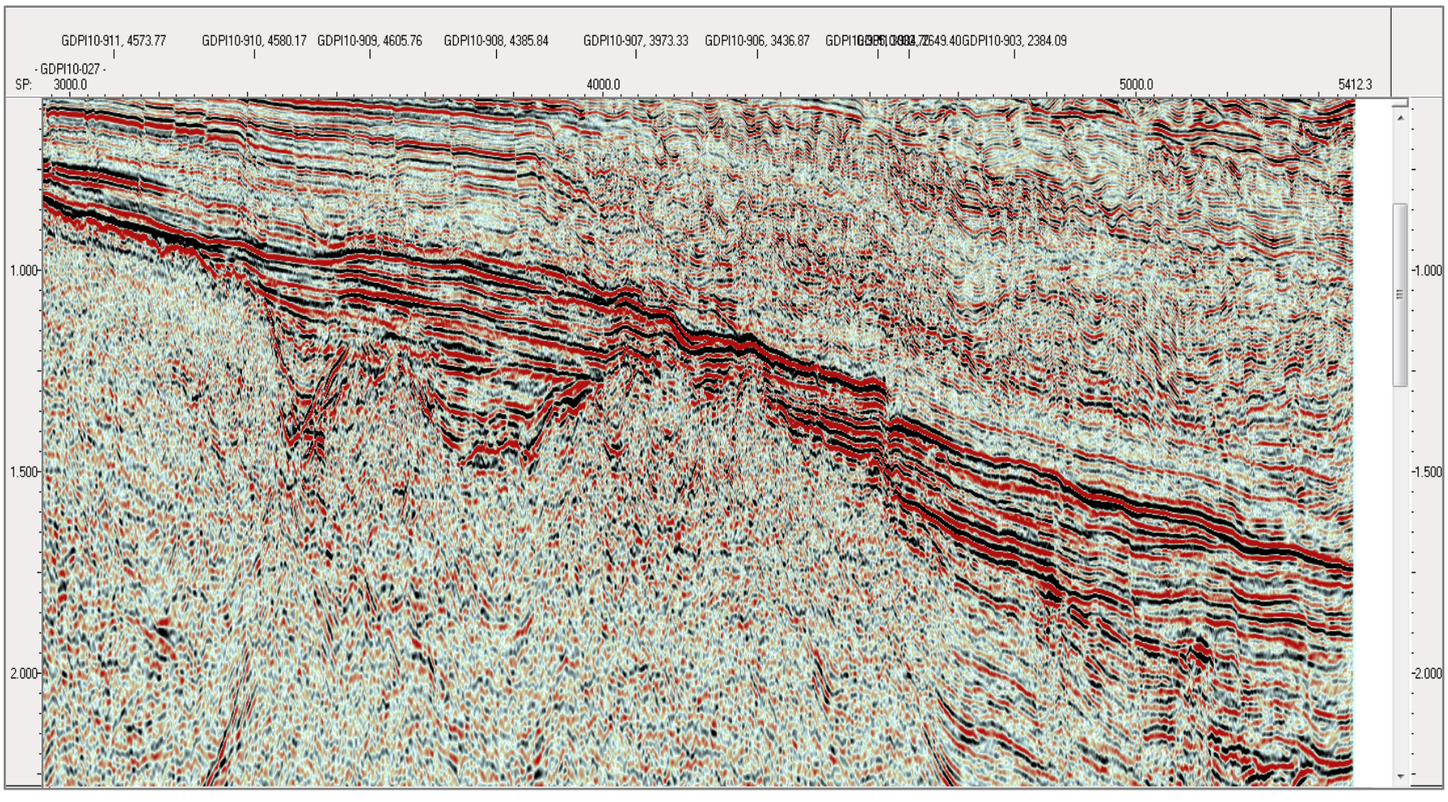

GDPI10-911_3068.15
GDPI10-016 - 3000.0
3250.0
GDPI10-912_3093.98
2750.0
GDPI10-913_3104.24
2500.0
SP:
0.400
0.500
0.600
0.700
0.800
0.900
1.000
1.100
1.200
1.300
1.400

Figure 6.22

Figure 6.23


SW
NE
GDPI10-911, 4573.77
GDPI10-910, 4580.17
GDPI10-909, 4605.76
GDPI10-908, 4385.84
GDPI10-907, 3973.33
GDPI10-906, 3436.87
GDPI10-903, 2384.09
90-21_r, 883.29
- GDPI10-027 -
SP: 3000.0
5412.3
Top EOW
Top LT
EOW faulting
offset of EOW
slump
Basement
Top Emp
Top Str
Top Hal
Top GB
GDPI10-27
FFS
1.00
1.50
2.00
-1.00
-1.50
-2.00


GDPI10-911, 4573.77
GDPI10-910, 4580.17
GDPI10-909, 4605.76
GDPI10-908, 4385.84
GDPI10-907, 3973.33
GDPI10-906, 3436.87
GDPI10-903, 2384.09
- GDPI10-027 -
SP: 3000.0
4000.0
5000.0
5412.3
1.000
1.500
2.000
-1.000
-1.500
-2.000

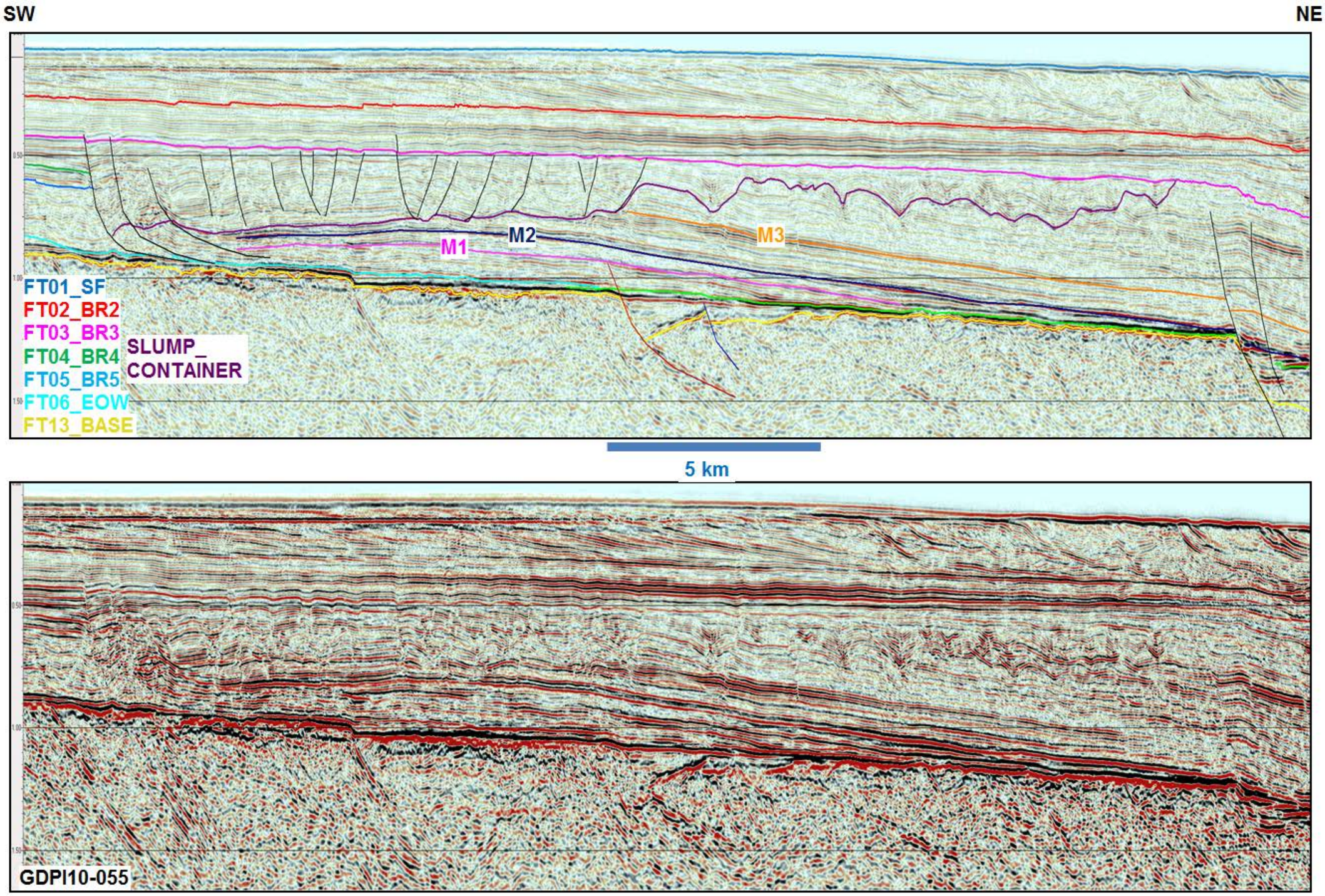

SW
NE
M1
M2
M3
FT01_SF
FT02_BR2
FT03_BR3
FT04_BR4
FT05_BR5
FT06_EOW
FT13_BASE
SLUMP_
CONTAINER
5 km
GDPI10-055

Figure 6.27

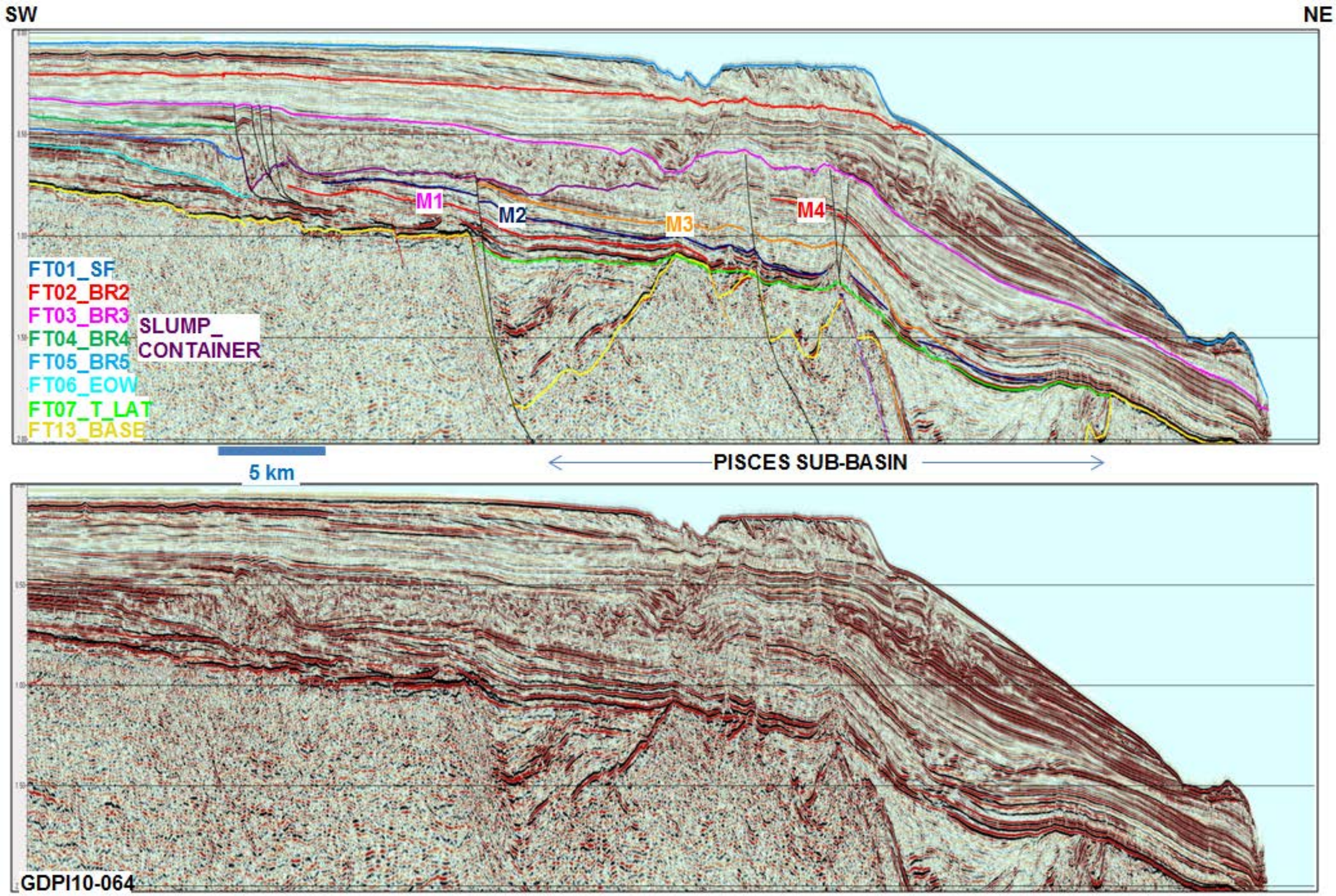

SW
NE
M1
M2
M3
M4
FT01_SF
FT02_BR2
FT03_BR3
FT04_BR4
FT05_BR5
FT06_EOW
FT07_T_LAT
FT13_BASE
SLUMP_
CONTAINER
5 km
PISCES SUB-BASIN
GDPI10-064

Figure 6.29

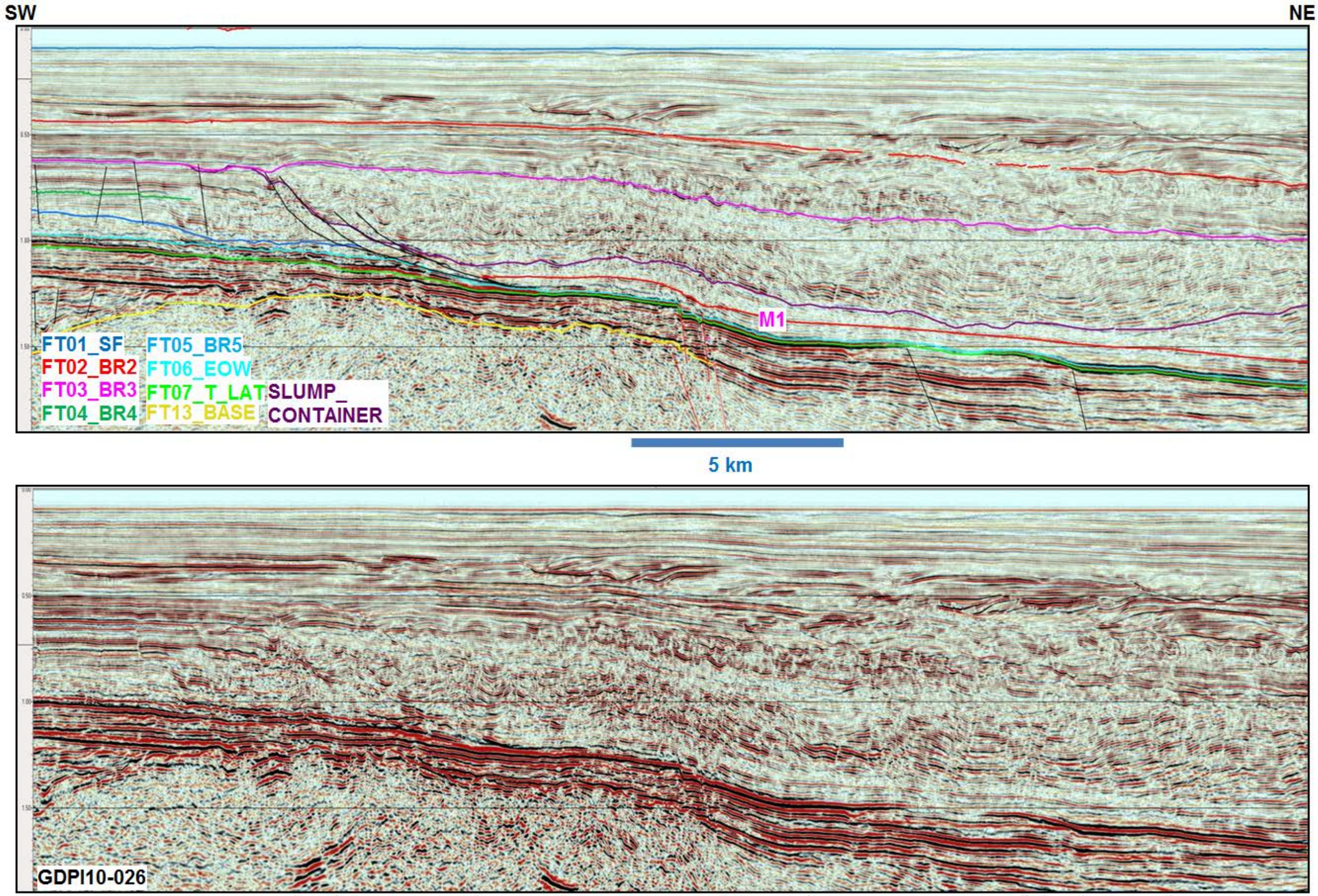

SW
NE
M1
FT01_SF
FT02_BR2
FT03_BR3
FT04_BR4
FT05_BR5
FT06_EOW
FT07_T_LAT
FT13_BASE
SLUMP_
CONTAINER
5 km
GDPI10-026

Figure 6.30

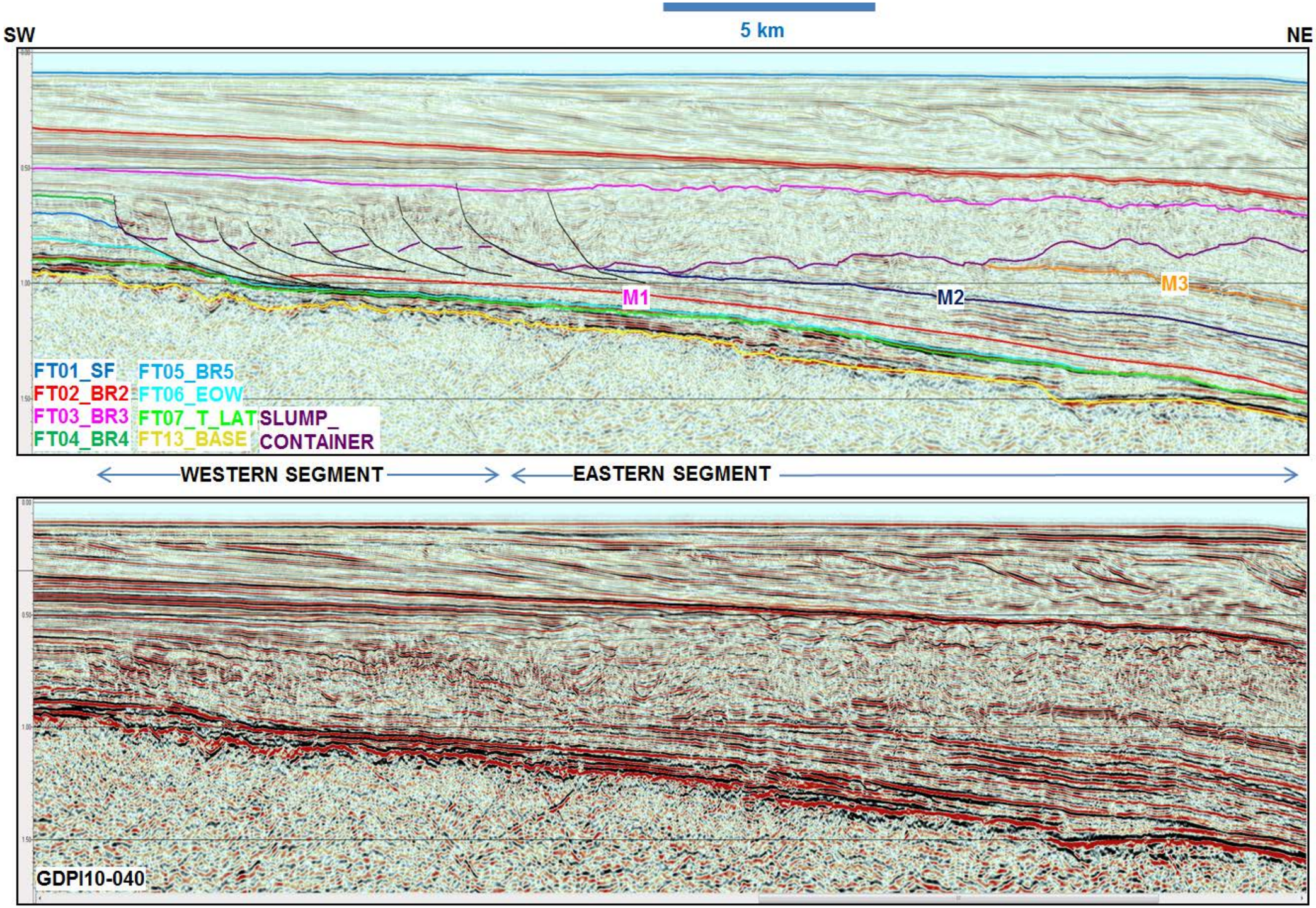

SW
5 km
NE
M1
M2
M3
FT01_SF
FT02_BR2
FT03_BR3
FT04_BR4
FT05_BR5
FT06_EOW
FT07_T_LAT
FT13_BASE
SLUMP_
CONTAINER
WESTERN SEGMENT
EASTERN SEGMENT
GDPI10-040

Figure 6.31

Figure 6.33

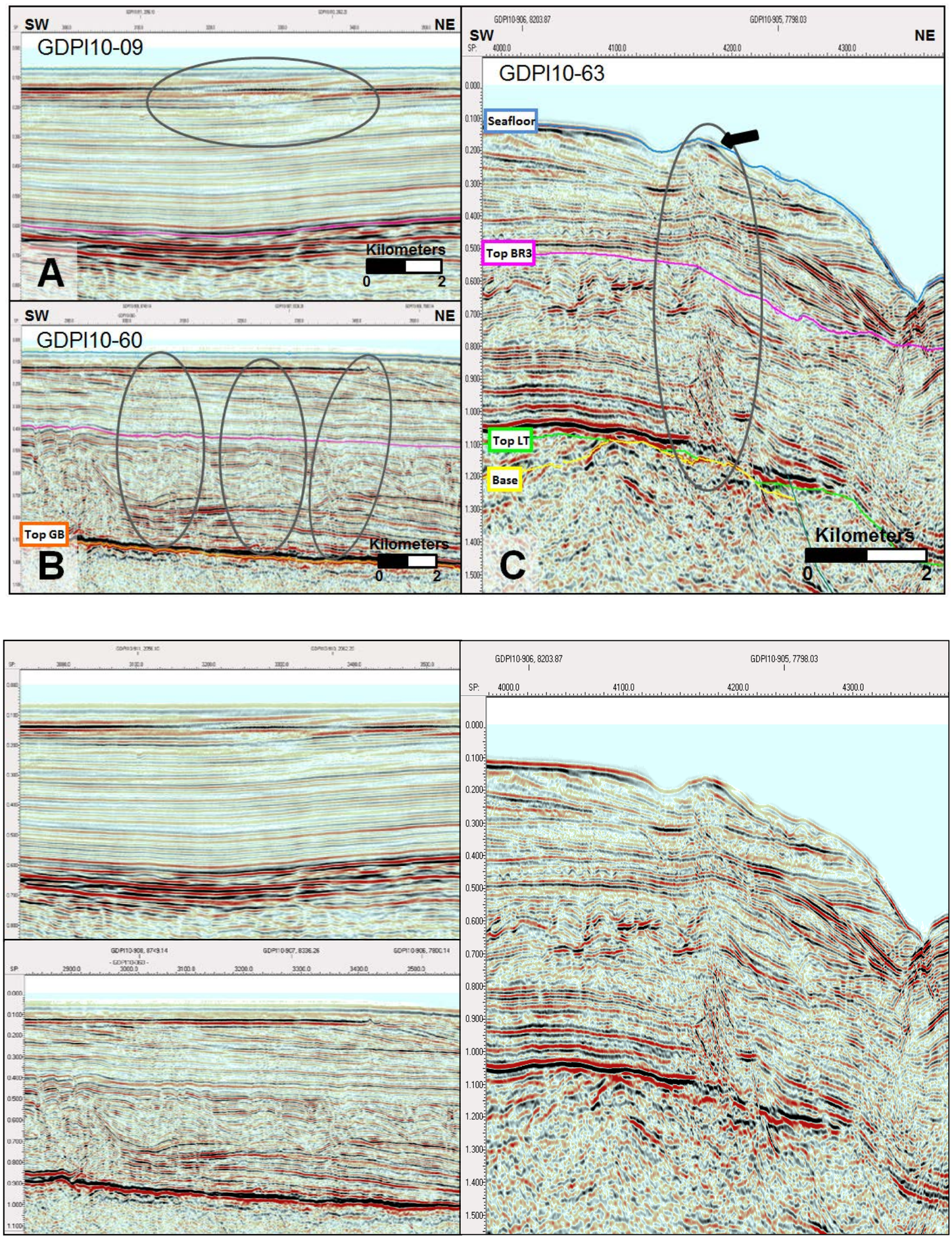

SW
NE
GDPI10-09
A
Kilometers
0
2
SW
NE
GDPI10-60
Top GB
B
Kilometers
0
2
GDPI10-906, 8203.87
GDPI10-905, 7798.03
SW
NE
SP:
4000.0
4100.0
4200.0
4300.0
GDPI10-63
Seafloor
Top BR3
Top LT
Base
C
Kilometers
0
2
GDPI10-908, 8743.14
GDPI10-907, 8336.26
GDPI10-906, 7800.14
SP:
2900.0
3000.0
3100.0
3200.0
3300.0
3400.0
3500.0

Figure 6.35

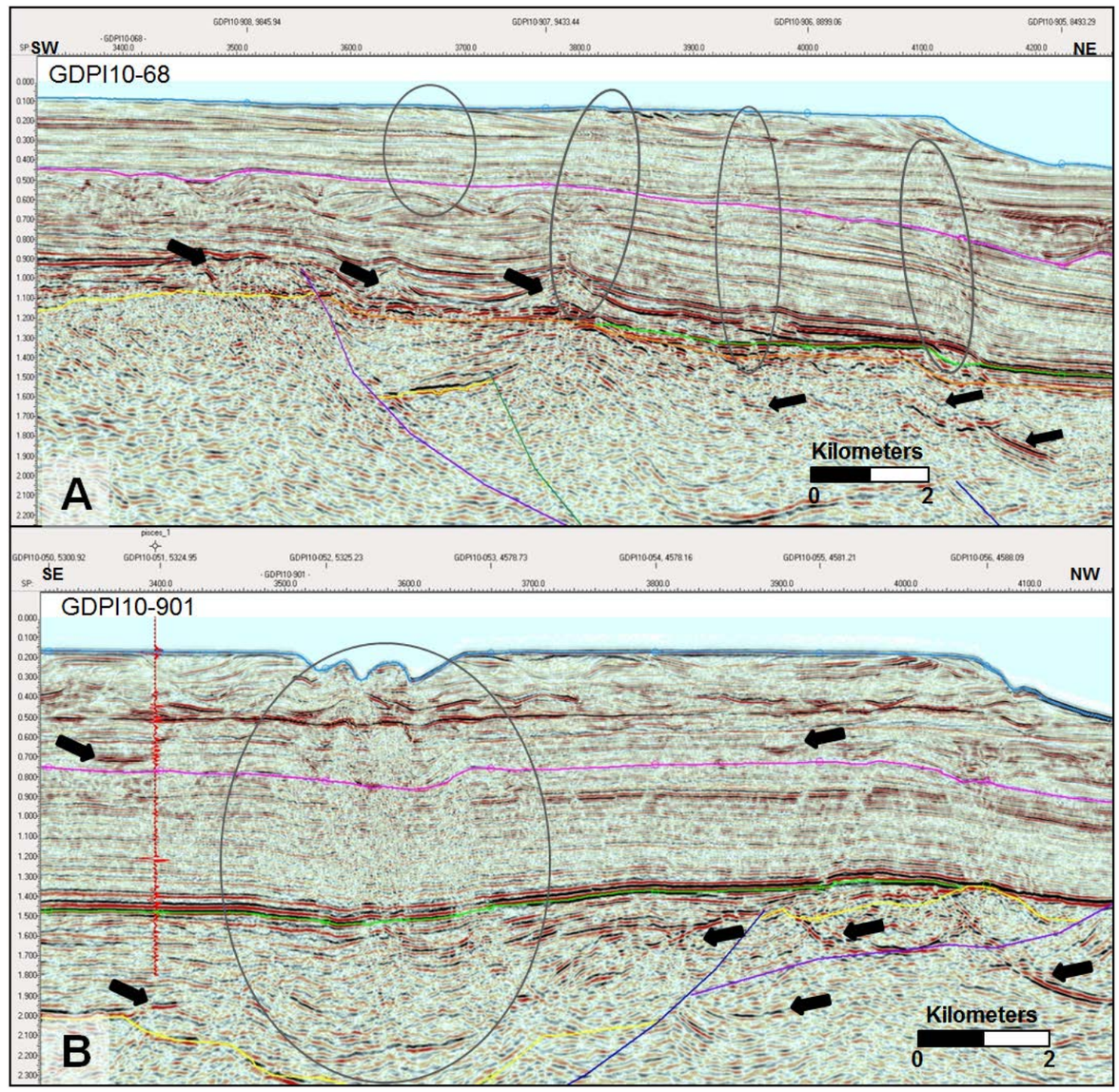

GDPI10-908, 9845.94
GDPI10-907, 9433.44
GDPI10-906, 8899.06
GDPI10-905, 8493.29
SP:
- GDPI10-068 -
SW
NE
GDPI10-68
Kilometers
0
2
A
pisces_1
GDPI10-050, 5300.92
GDPI10-051, 5324.95
GDPI10-052, 5325.23
GDPI10-053, 4578.73
GDPI10-054, 4578.16
GDPI10-055, 4581.21
GDPI10-056, 4588.09
- GDPI10-901 -
SE
NW
GDPI10-901
Kilometers
0
2
B

Figure 6.37

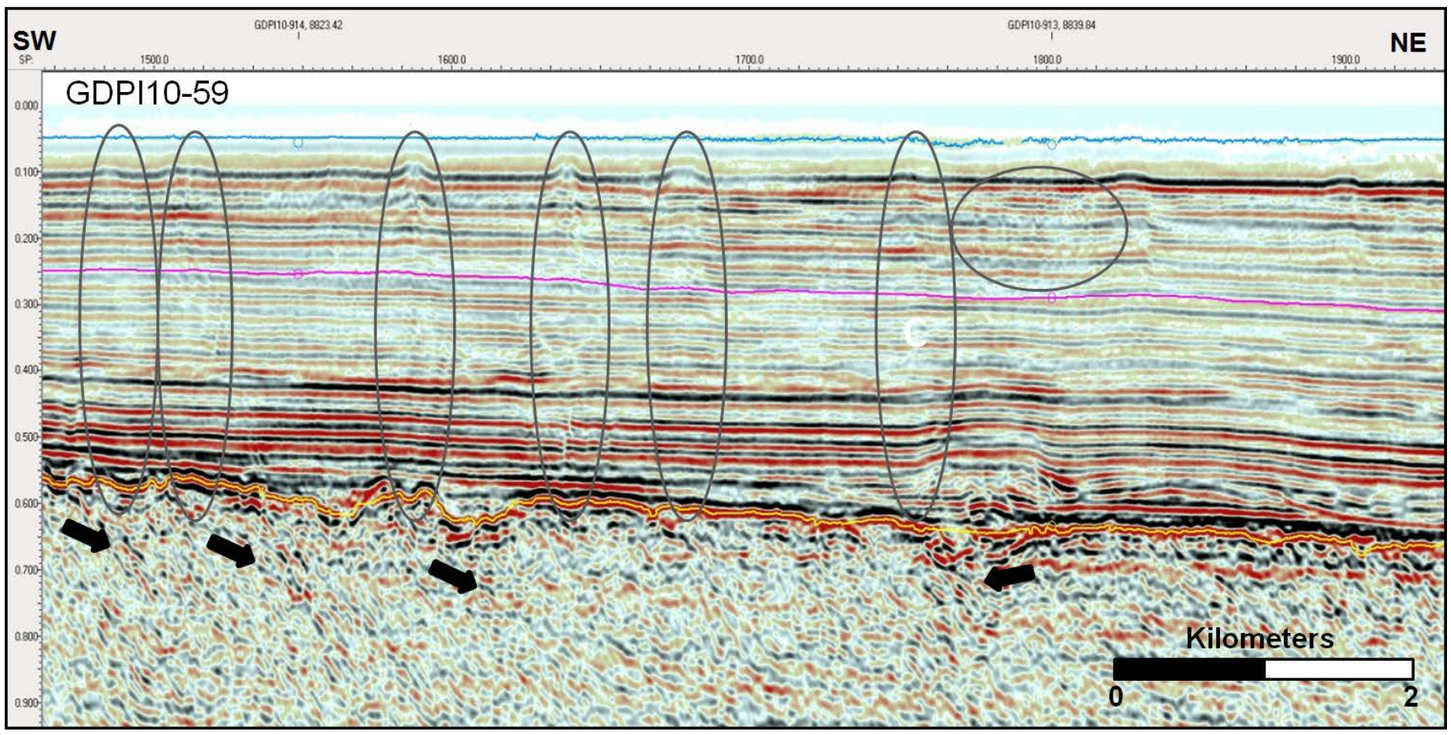
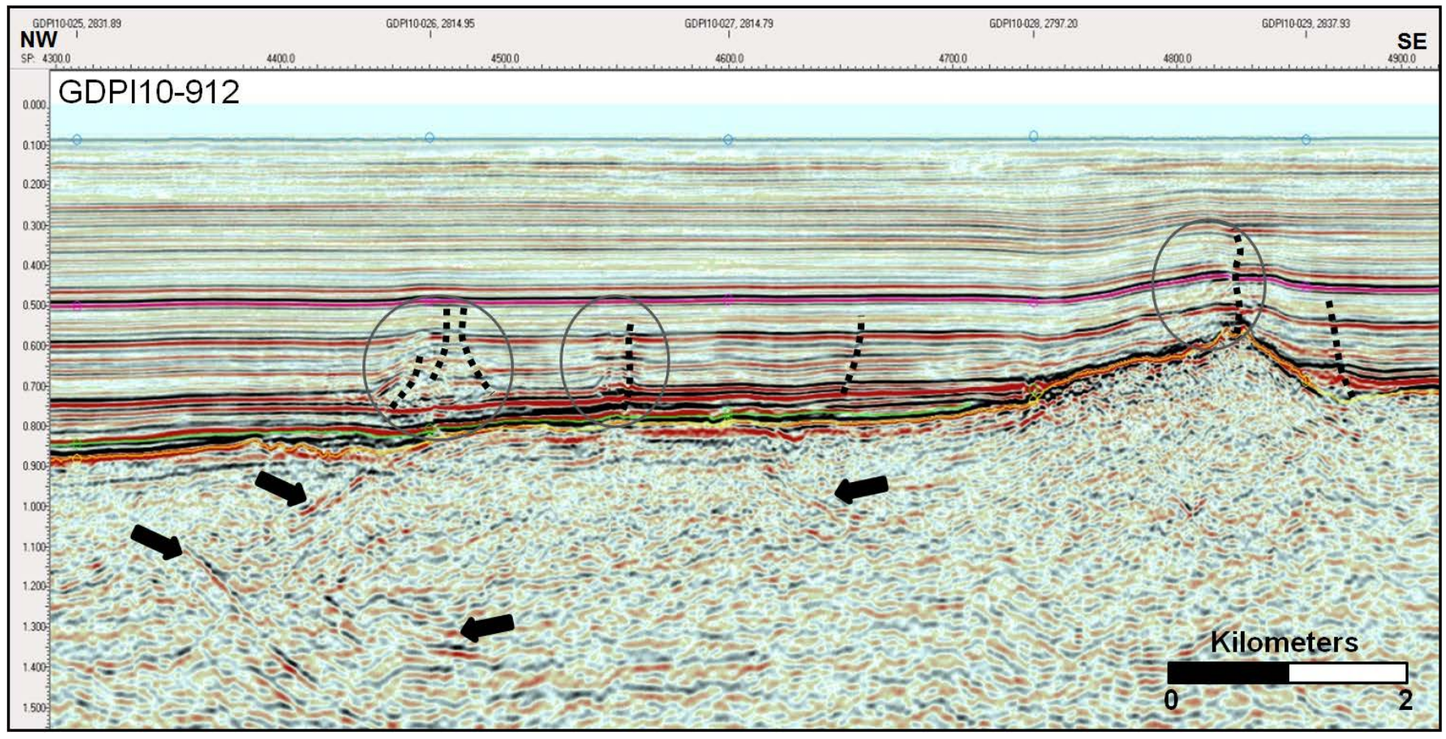
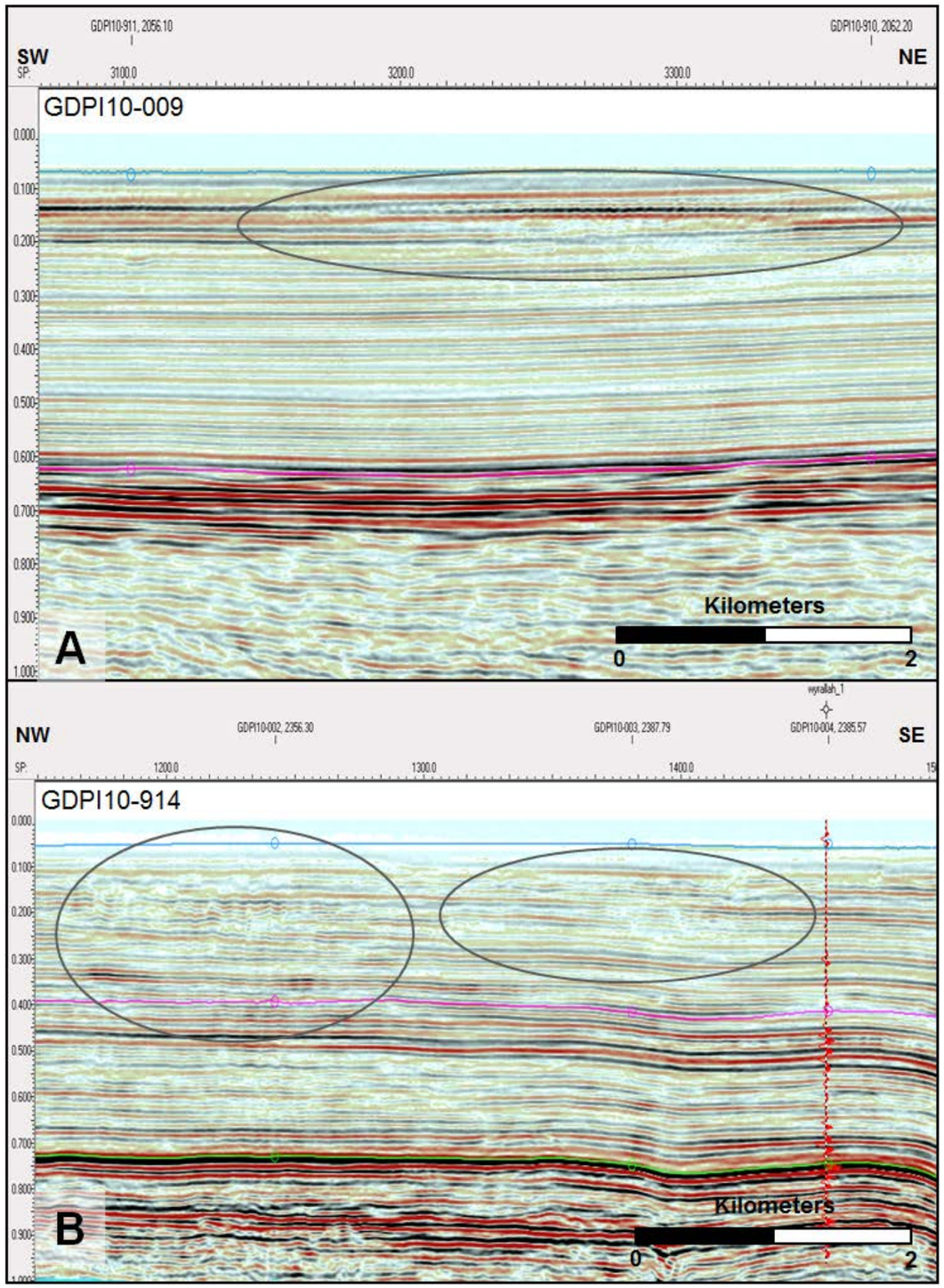

SW
NE
GDPI10-914, 8823.42
GDPI10-913, 8839.84
SP:
1500.0
1600.0
1700.0
1800.0
1900.0
GDPI10-59
0.000
0.100
0.200
0.300
0.400
0.500
0.600
0.700
0.800
0.900
Kilometers
0
2

Figure 6.36


GDPI10-025, 2831.89
GDPI10-026, 2814.95
GDPI10-027, 2814.79
GDPI10-028, 2797.20
GDPI10-029, 2837.93
NW
SE
SP: 4300.0
4400.0
4500.0
4600.0
4700.0
4800.0
4900.0
GDPI10-912
0.000
0.100
0.200
0.300
0.400
0.500
0.600
0.700
0.800
0.900
1.000
1.100
1.200
1.300
1.400
1.500
Kilometers
0
2


GDPI10-911, 2056.10
GDPI10-910, 2062.20
SW
NE
SP:
3100.0
3200.0
3300.0
GDPI10-009
Kilometers
0
2
A
wyrallah_1
NW
SE
GDPI10-002, 2356.30
GDPI10-003, 2387.79
GDPI10-004, 2385.57
1200.0
1300.0
1400.0
GDPI10-914
B

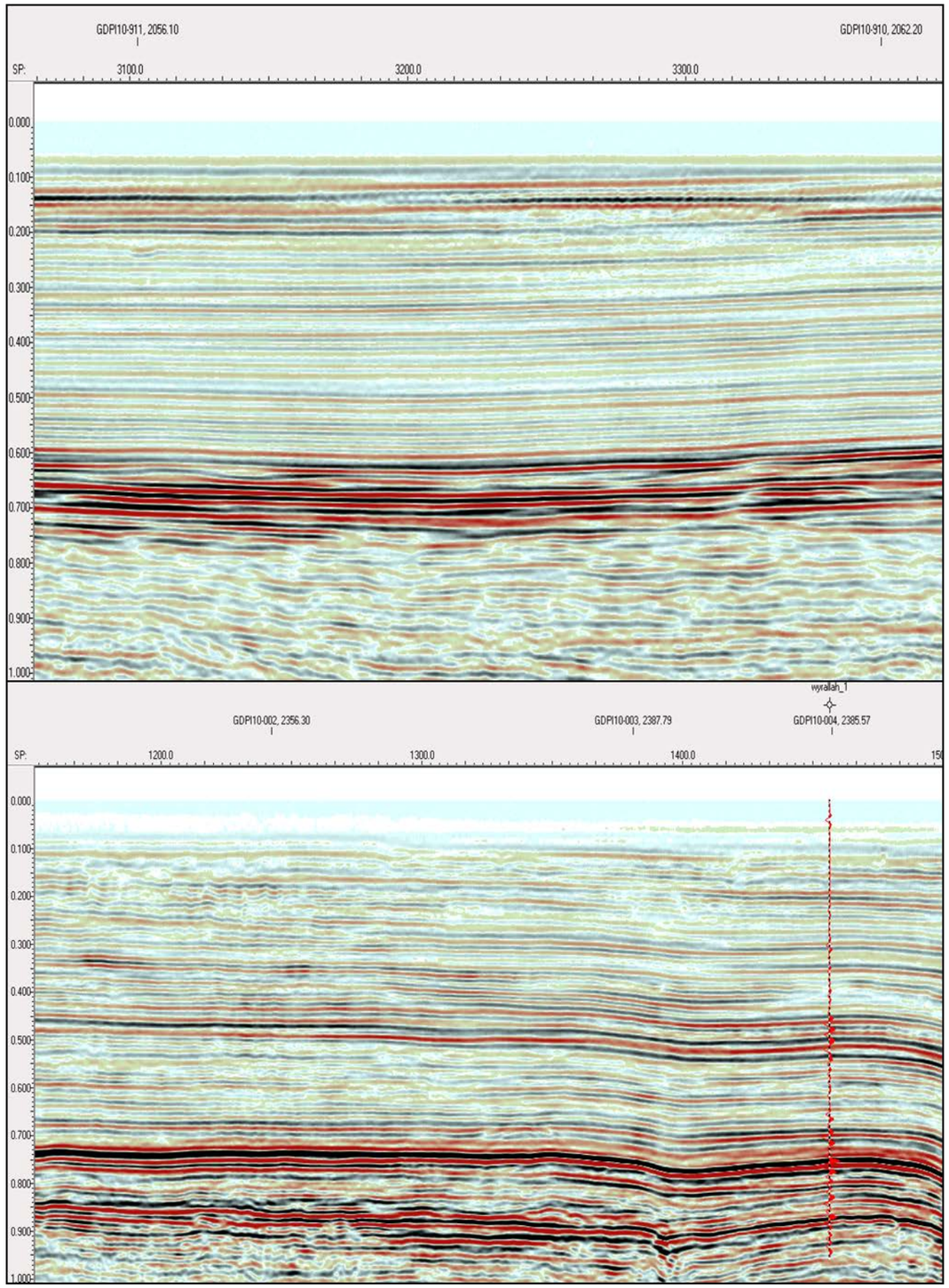
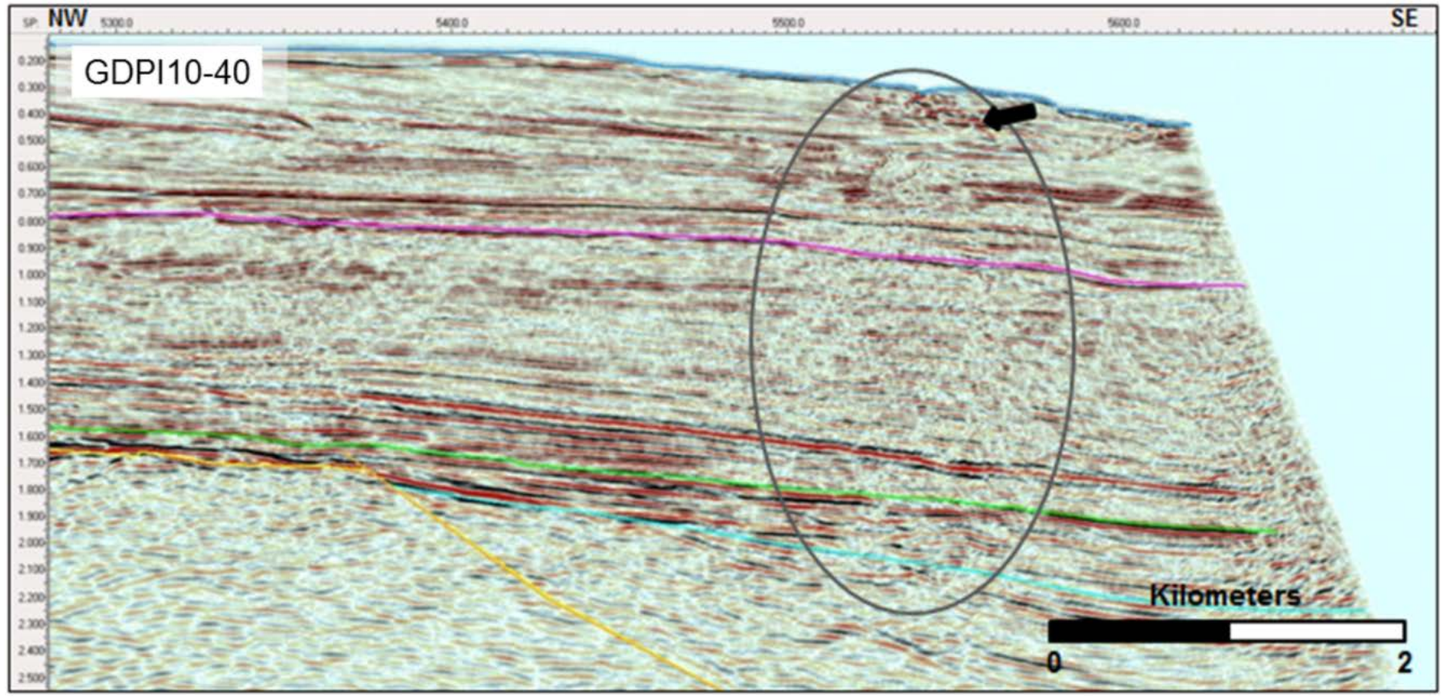

GDPI10-911, 2056.10
GDPI10-910, 2062.20
SP:
3100.0
3200.0
3300.0
wyrallah_1
GDPI10-002, 2356.30
GDPI10-003, 2387.79
GDPI10-004, 2385.57
1200.0
1300.0
1400.0

Figure 6.38



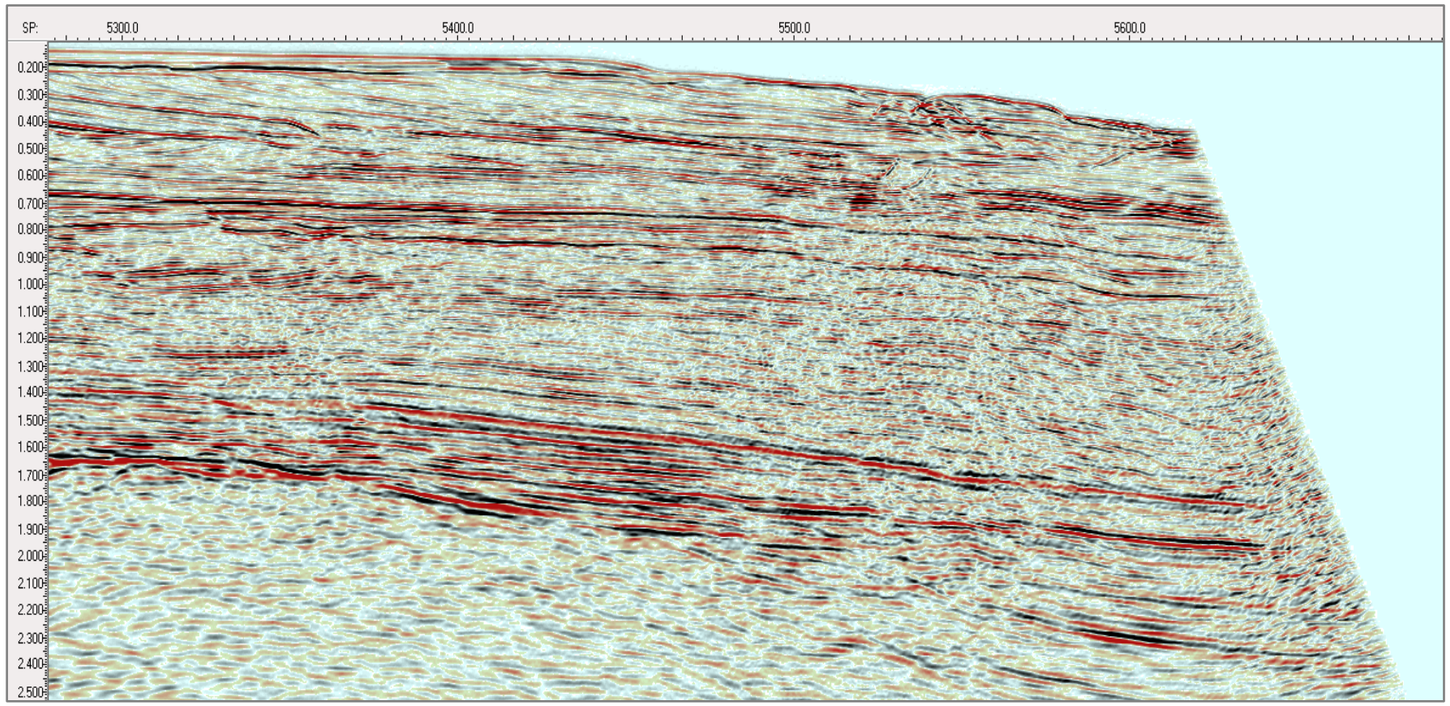


Figure 6.39

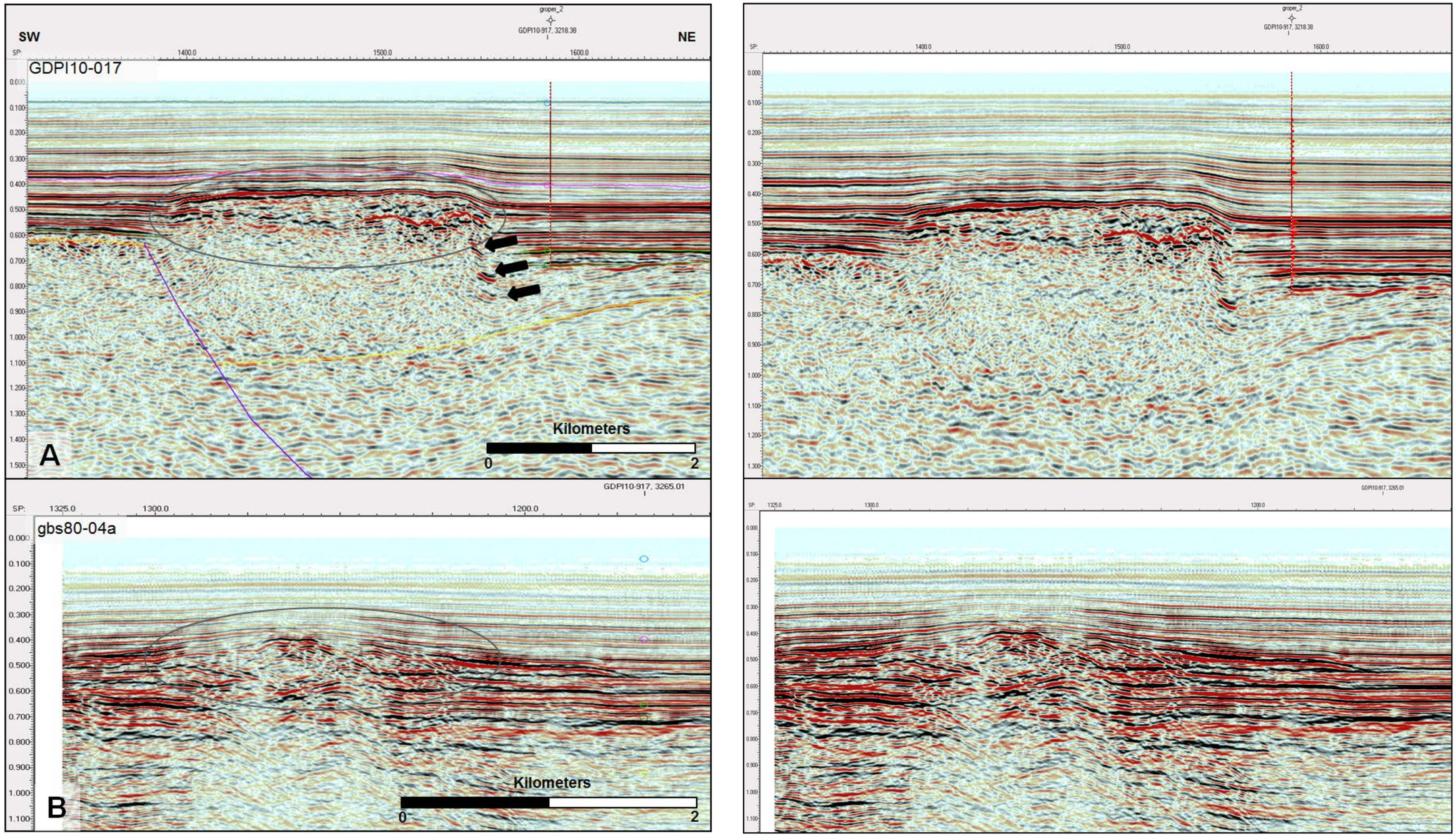


Figure 6.40