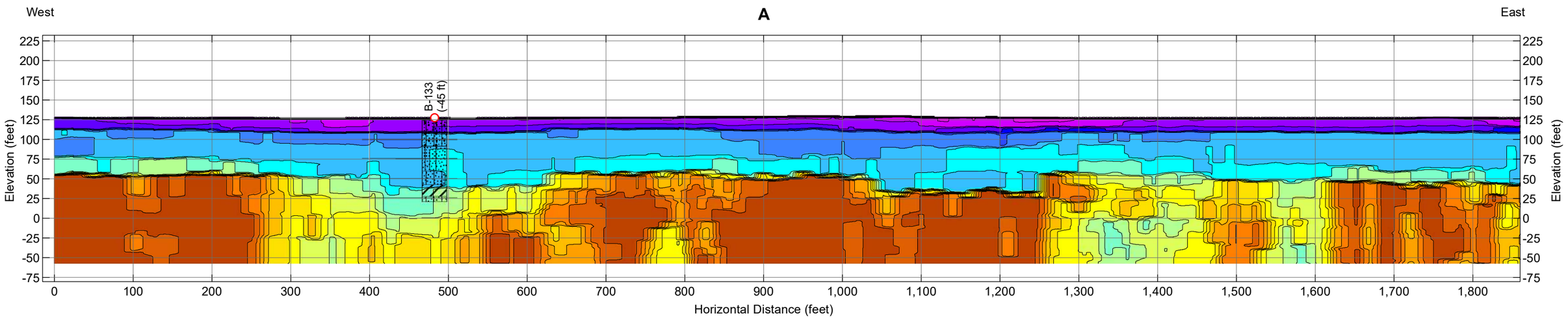
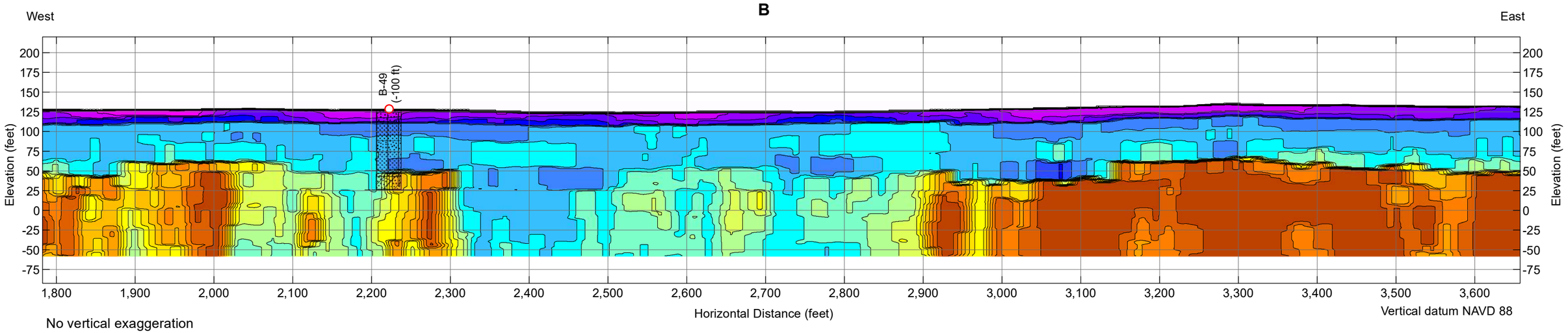
Part 8 of 19 of Appendices for Resource Report No. 13 LNG



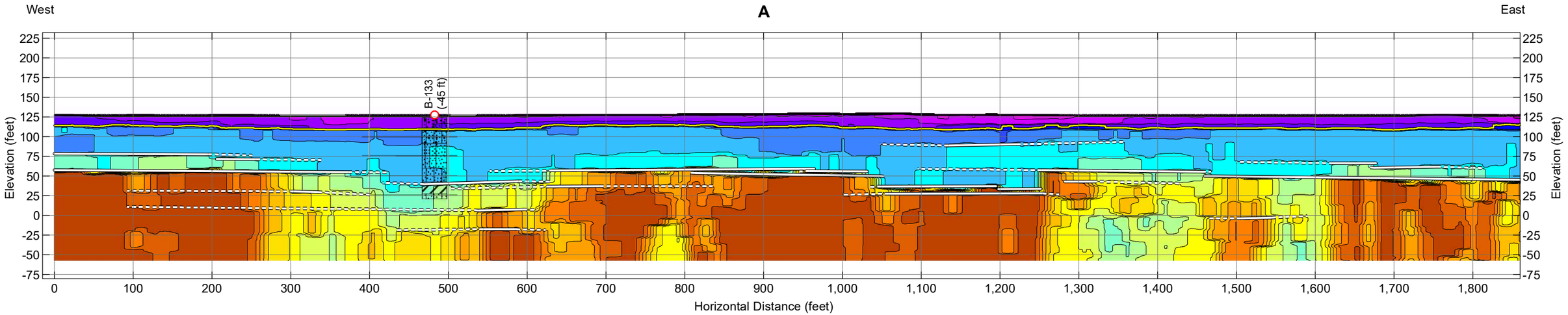


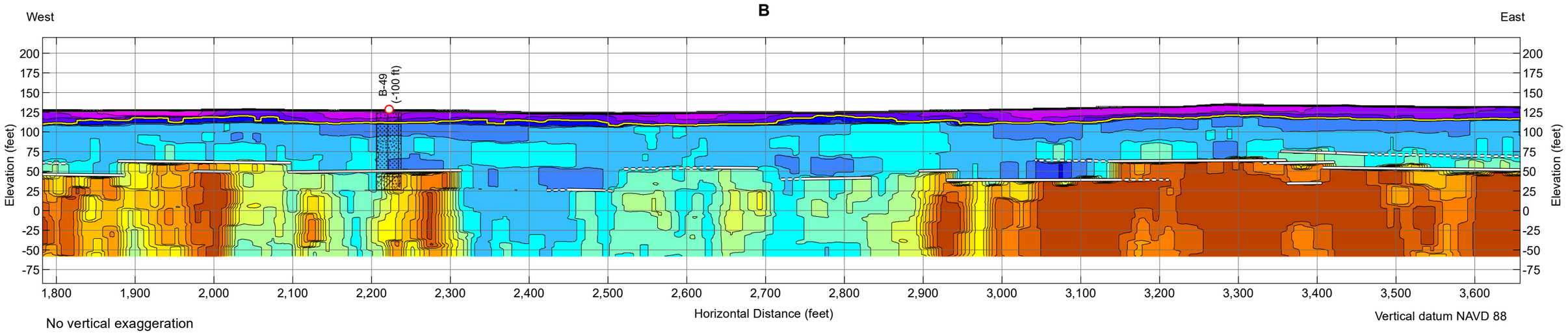
For legend see Plate B-4

IMASW VS TOMOGRAPHY PROFILE:
2014 LINE EW-7, WEST
ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-21

P:\Projects\10_0000\10_140334_AKLNG_PreFEED_Phase2\05_Graphics\10_140334 Geophysics\B21_D_317_A_IMASW_Profile_EW7.mxd: jhornberg: 5/13/2016





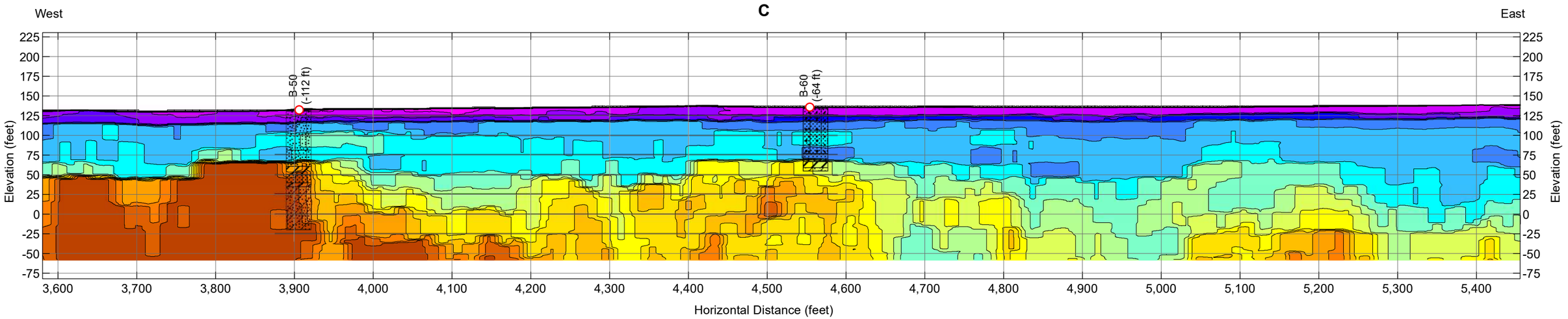
IMASW VS TOMOGRAPHY PROFILE:
2014 LINE EW-7, WEST, INTERPRETED

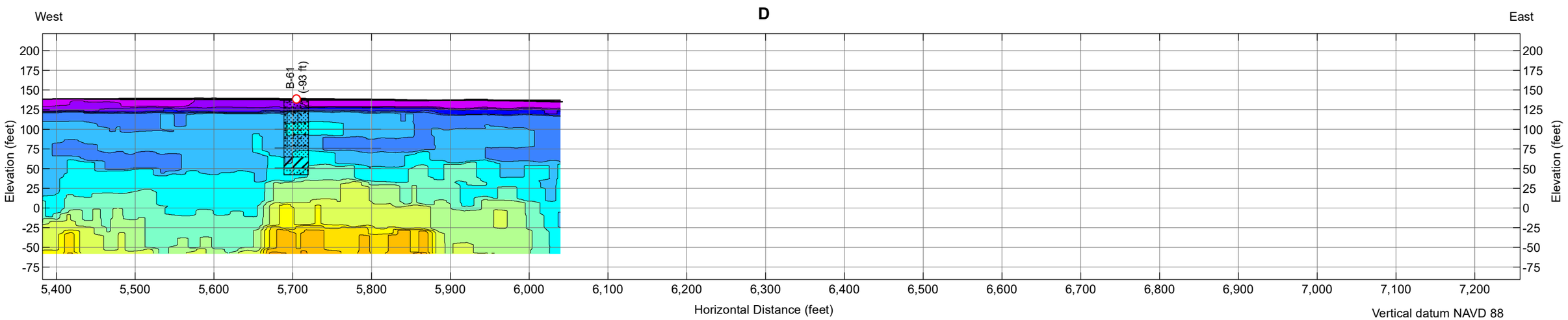
ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

For legend see Plate B-4

PLATE B-22

P:\Projects\10_0000\10_140334_AKLNG_PreFEED_Phase2\05_Graphics\10_140334 Geophysics\B22_D_317_B_IMASW_Profile_EW7.mxd: jholmberg; 5/13/20





No vertical exaggeration

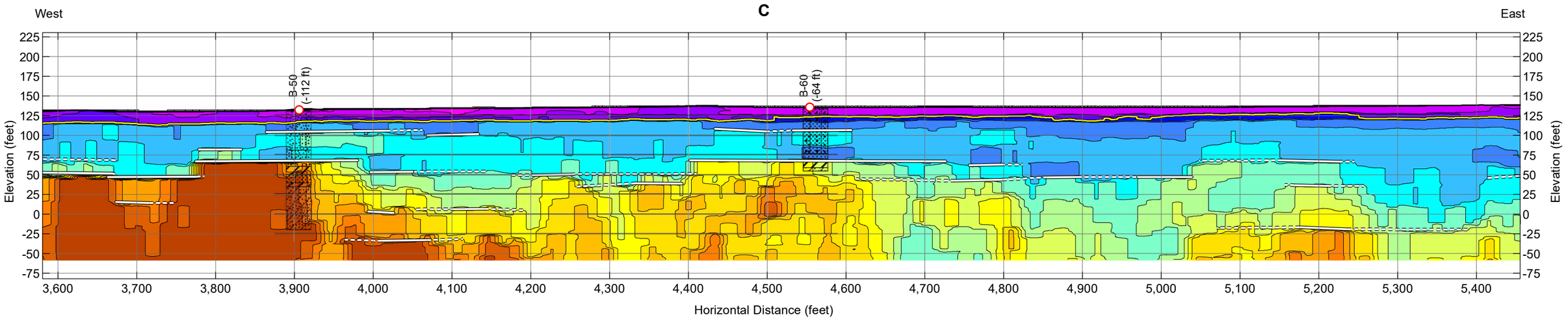
For legend see Plate B-4

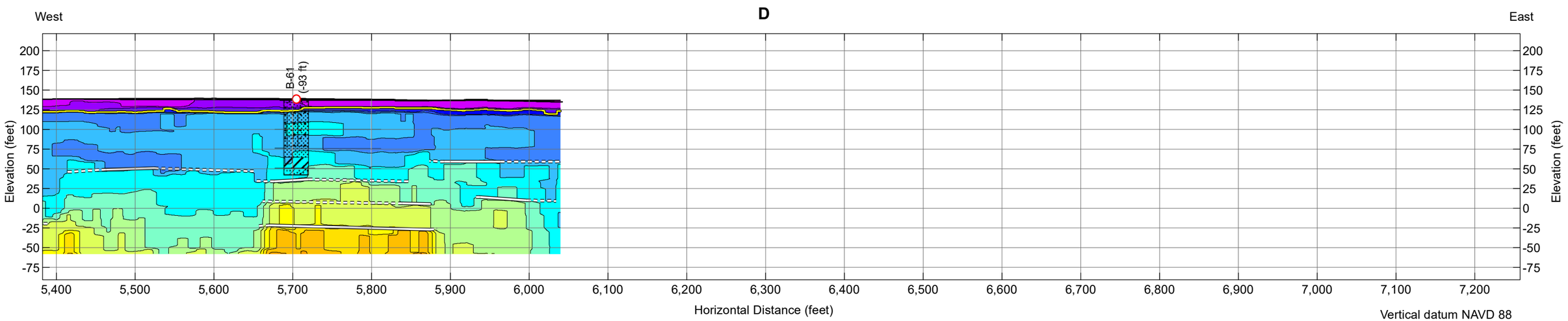
IMASW VS TOMOGRAPHY PROFILE:
2014 LINE EW-7, EAST

ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-23

P:\Projects\10_0000\10_140334_AKLNG_PreFEED_Phase2\05_Graphics\10_140334 Geophysics\B23_D_298_A_IMASW_Profile_EW7.mxd, jholmberg, 5/13/2016





No vertical exaggeration

Vertical datum NAVD 88

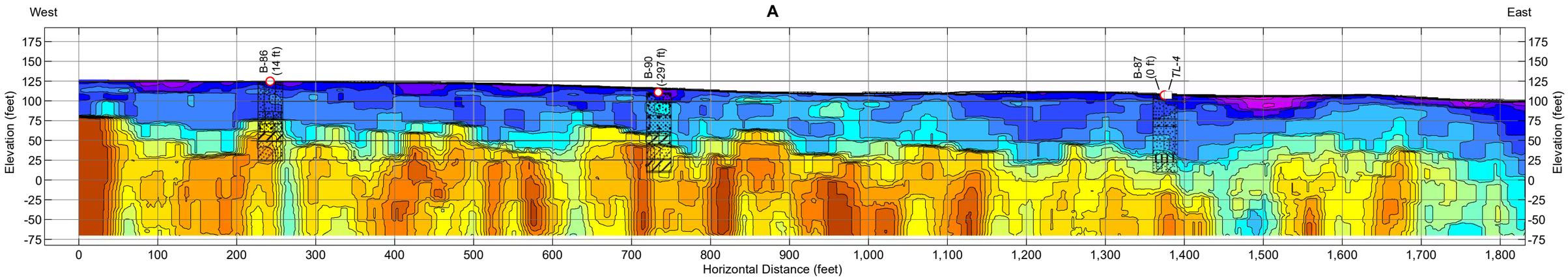
For legend see Plate B-4

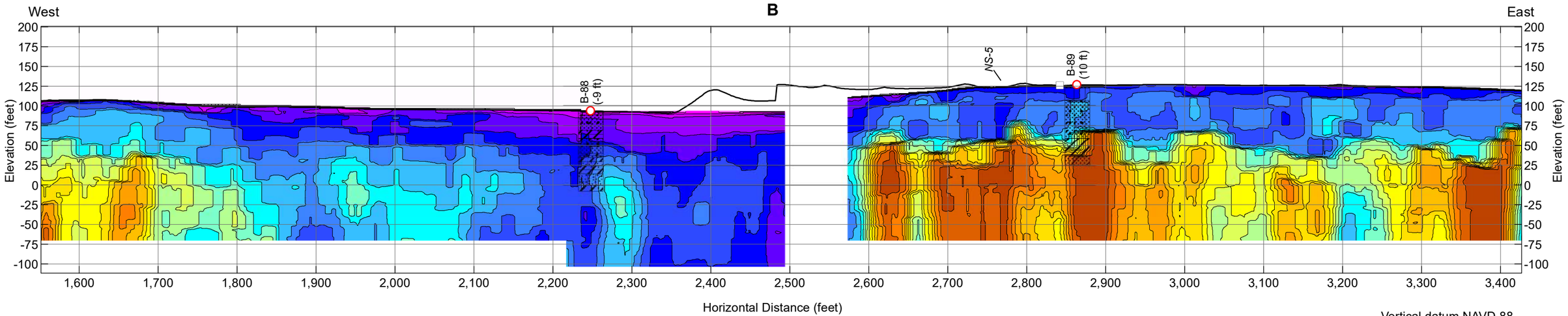
IMASW VS TOMOGRAPHY PROFILE:
2014 LINE EW-7, EAST, INTERPRETED

ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-24

P:\Projects\10_0000\10_140334_AKLNG_PreFEED_Phase2\05_Graphics\10_140334 Geophysics\B24_D_298_B_IMASW_Profile_EW7.mxd; jholmberg; 5/13/2016





No vertical exaggeration

Vertical datum NAVD 88

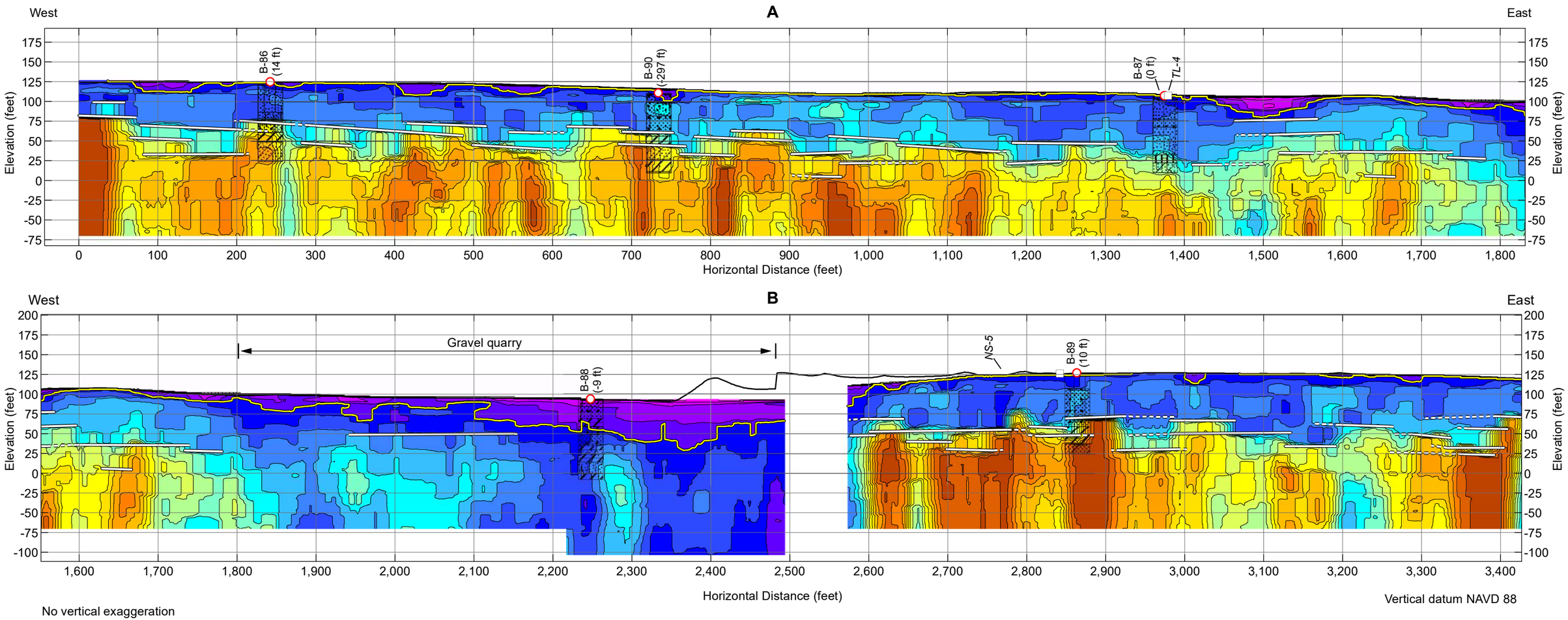
P:\Projects\10_0000\10_140334_AKLNG_PreFEED_Phase2\05_Graphics\10_140334 Geophysics\B25_D_305_A_IMASW_Profile_EW11.mxd; jholmberg; 5/13/2016

For legend see Plate B-4

IMASW VS TOMOGRAPHY PROFILE: 2015 LINE EW-11

ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-25



No vertical exaggeration

Vertical datum NAVD 88

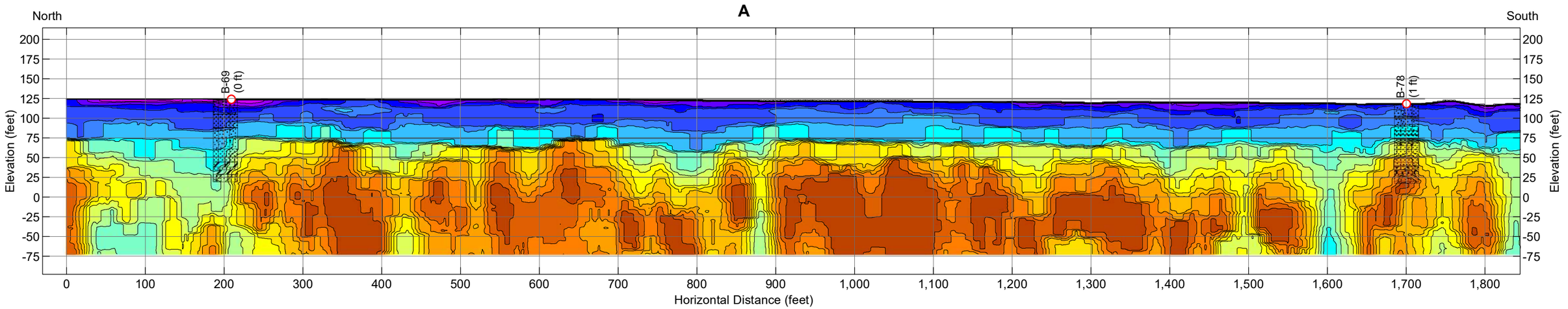
For legend see Plate B-4

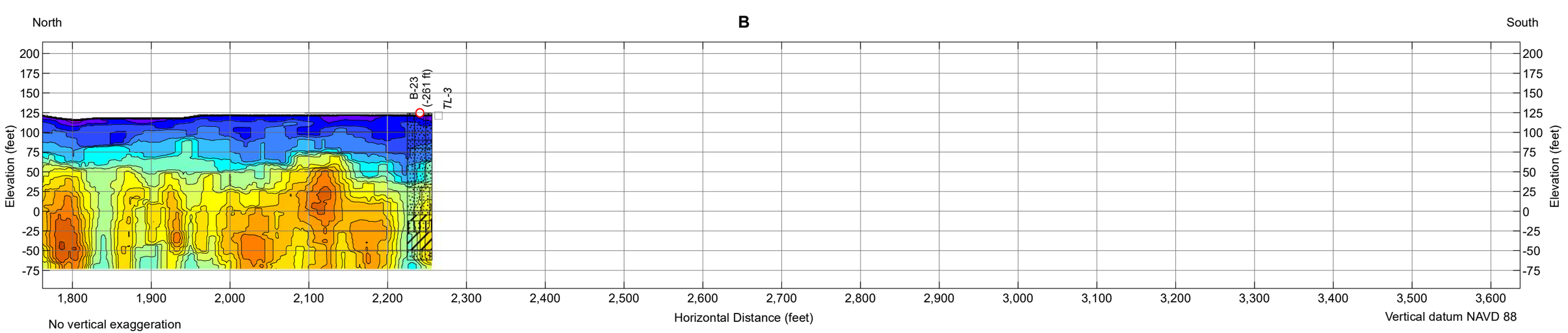
IMASW VS TOMOGRAPHY PROFILE:
2015 LINE EW-11, INTERPRETED

ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-26

P:\Projects\10_0000\10_140334_AKLNG_PreFEED_Phase2\05_Graphics\10_140334 Geophysics\B26_D_305_B_IMASW_Profile_EW11.mxd; jholmberg; 5/13/2016





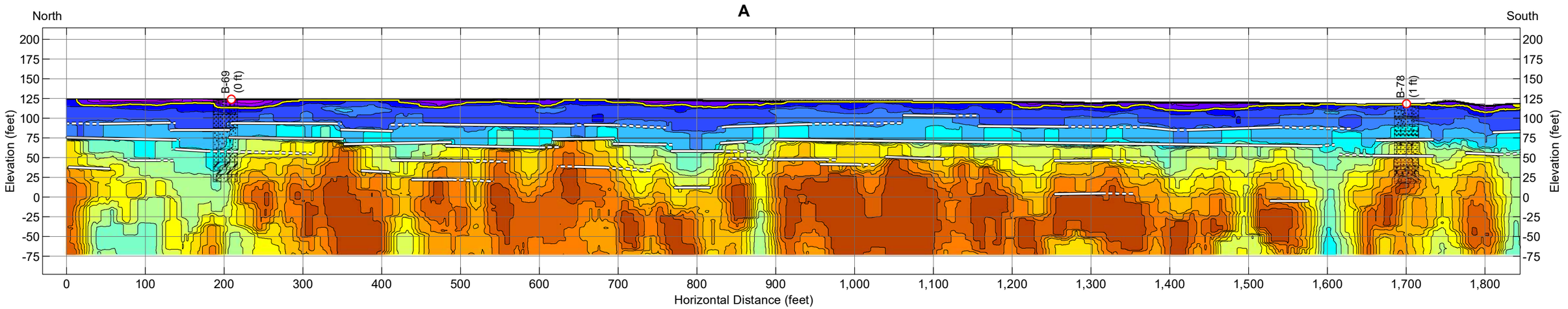
IMASW VS TOMOGRAPHY PROFILE:
2015 LINE NS-1 NORTH

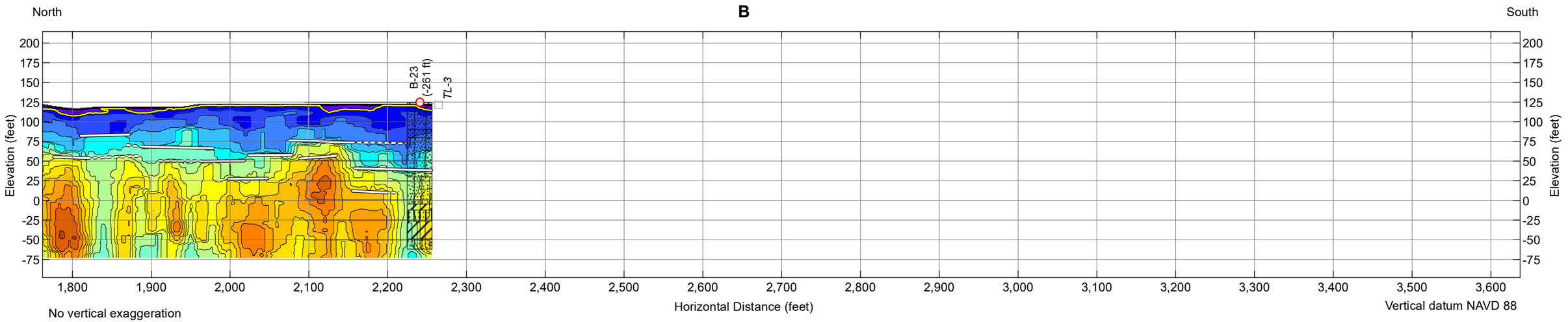
ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

For legend see Plate B-4

PLATE B-27

P:\Projects\10_0000\10_140334_AKLNG_PreFEED_Phase2\05_Graphics\10_140334 Geophysics\B27_D_302_A_IMASW_Profile_NS1_North.mxd; jholmberg; 5/13/2016





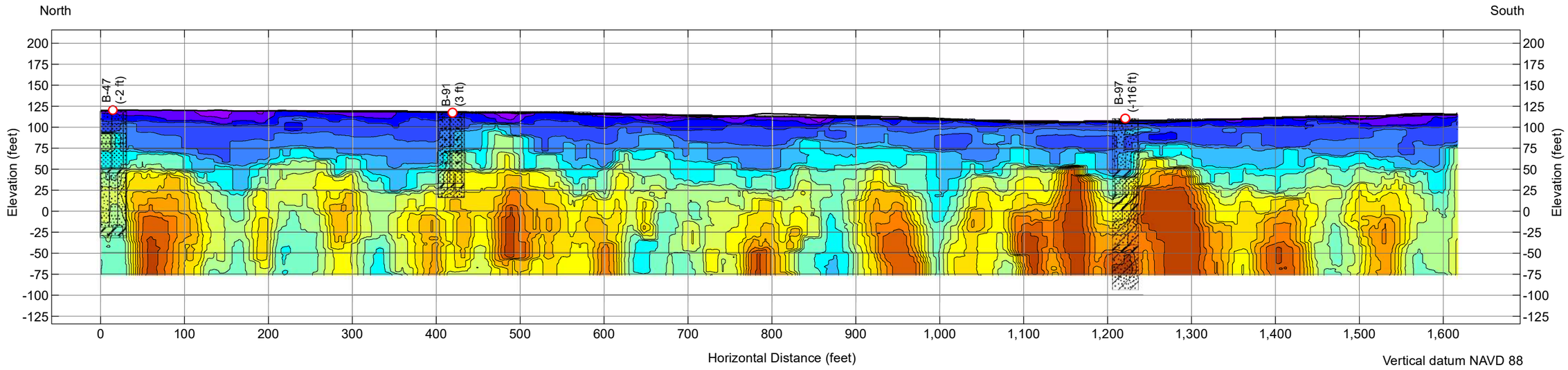
IMASW VS TOMOGRAPHY PROFILE:
2015 LINE NS-1 NORTH, INTERPRETED

ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

For legend see Plate B-4

PLATE B-28

P:\Projects\10_0000\10_140334_AKLNG_PreFEED_Phase2\05_Graphics\10_140334 Geophysics\B28_D_302_B_IMASW_Profile_NS1_North.mxd; jholmberg; 5/13/2016



Vertical datum NAVD 88

No vertical exaggeration

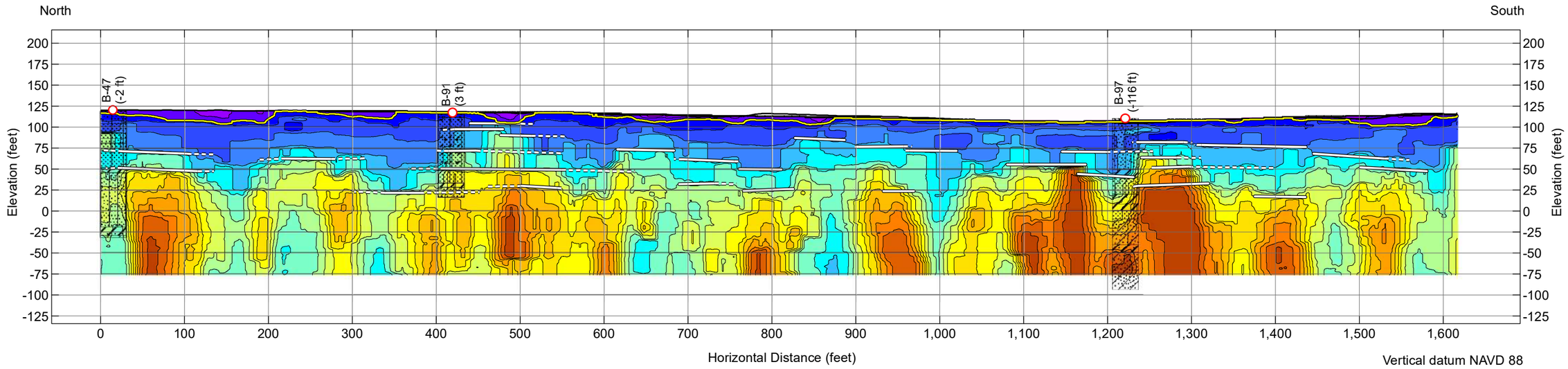
For legend see Plate B-4

IMASW VS TOMOGRAPHY PROFILE:
2015 LINE NS-1 SOUTH

ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-29

P:\Projects\10_0000\10_140334_AKLNG_PreFEED_Phase2\05_Graphics\10_140334 Geophysical\B29_D_306_A_IMASW_Profile_NS1_South.mxd; jholmberg; 5/13/2016



Vertical datum NAVD 88

No vertical exaggeration

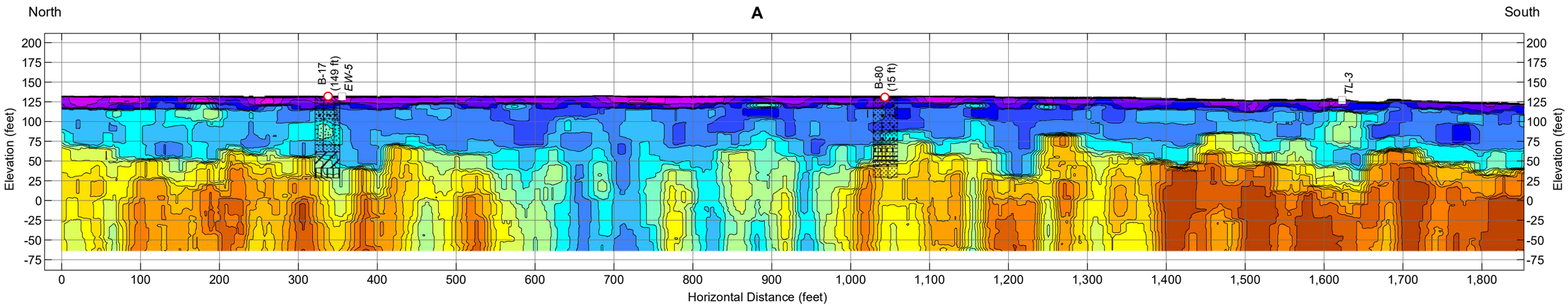
For legend see Plate B-4

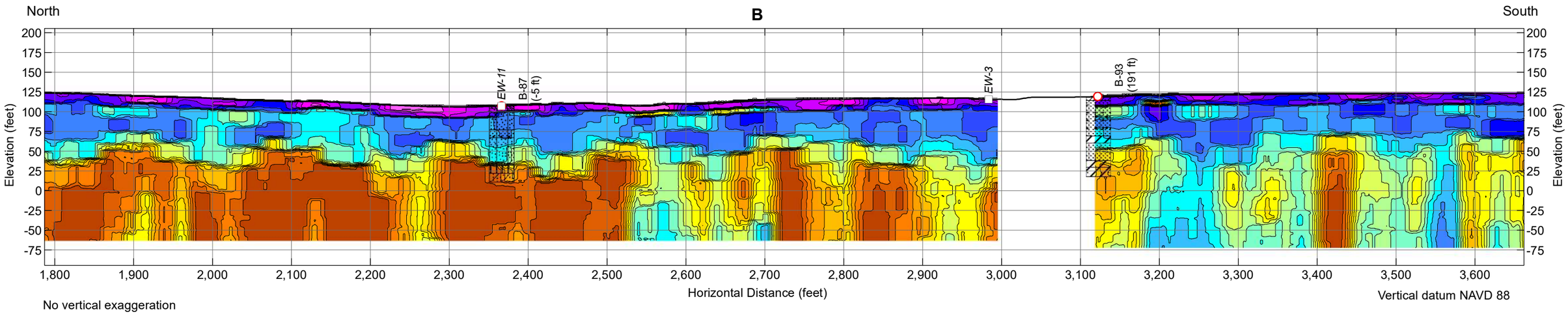
IMASW VS TOMOGRAPHY PROFILE:
2015 LINE NS-1 SOUTH, INTERPRETED

ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-30

P:\Projects\10_0000\10_140334_AKLNG_PreFEED_Phase2\05_Graphics\10_140334 Geophysical\B30_D_306_B_IMASW_Profile_NS1_South.mxd; jholmberg; 5/13/2016





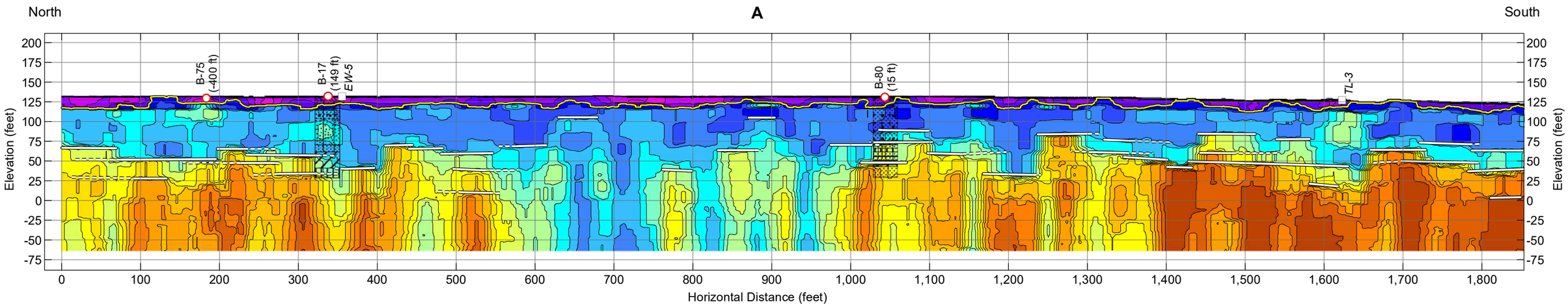
For legend see Plate B-4

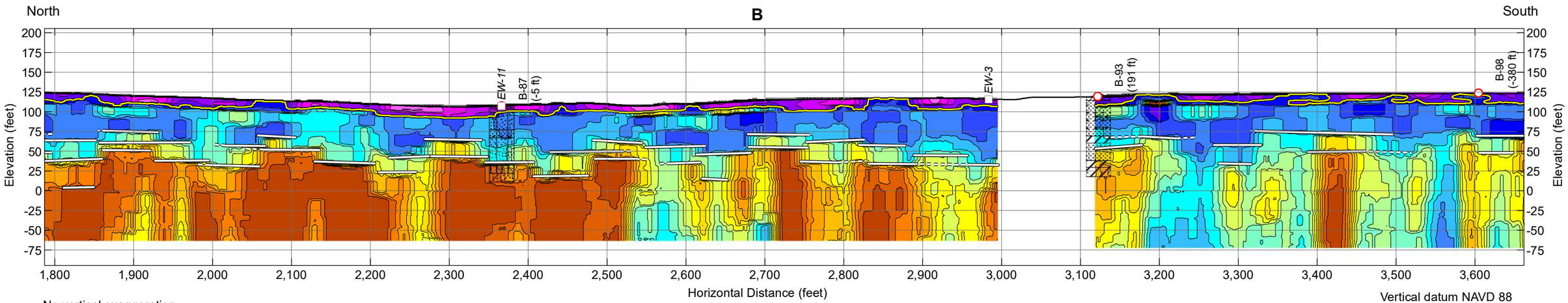
IMASW VS TOMOGRAPHY PROFILE:
2015 LINE NS-4 (TL-4), NORTH

ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-31

P:\Projects\10_0000\10_140334_AKLNG_PreFEED_Phase2\05_Graphics\10_140334 Geophysics\B31_D_292_A_IMASW_Profile_TL4.mxd; jholmberg; 5/13/2016





No vertical exaggeration

Vertical datum NAVD 88

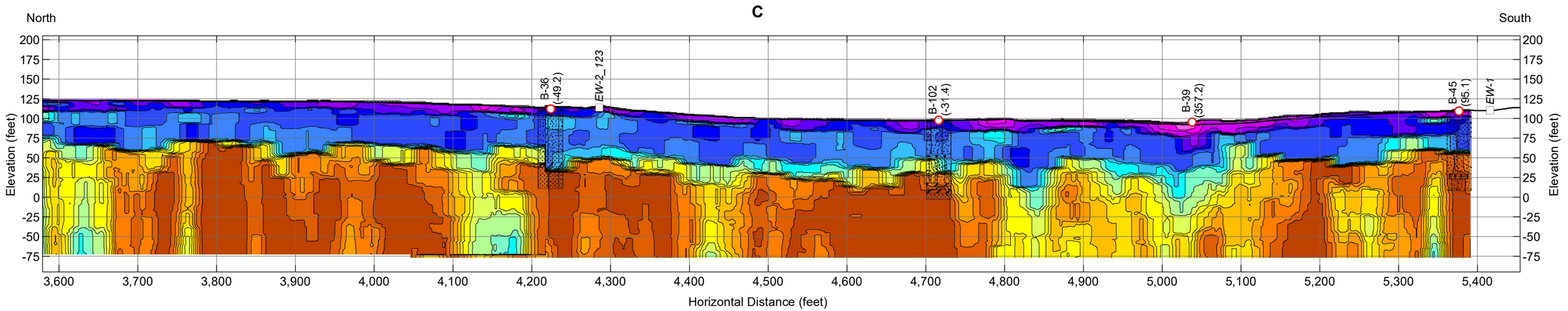
For legend see Plate B-4

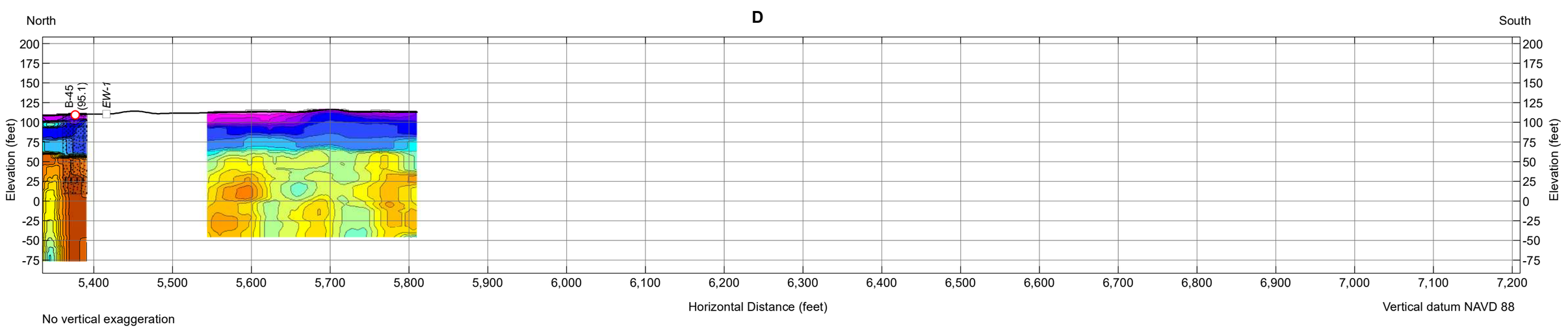
IMASW VS TOMOGRAPHY PROFILE:
2015 LINE NS-4 (TL-4), NORTH, INTERPRETED

ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-32

P:\Projects\10_0000\10_140334_AKLNG_PreFEED_Phase2\05_Graphics\10_140334 Geophysics\B32_D_292_B_IMASW_Profile_TL4.mxd; jholmberg; 5/13/2016





No vertical exaggeration

Vertical datum NAVD 88

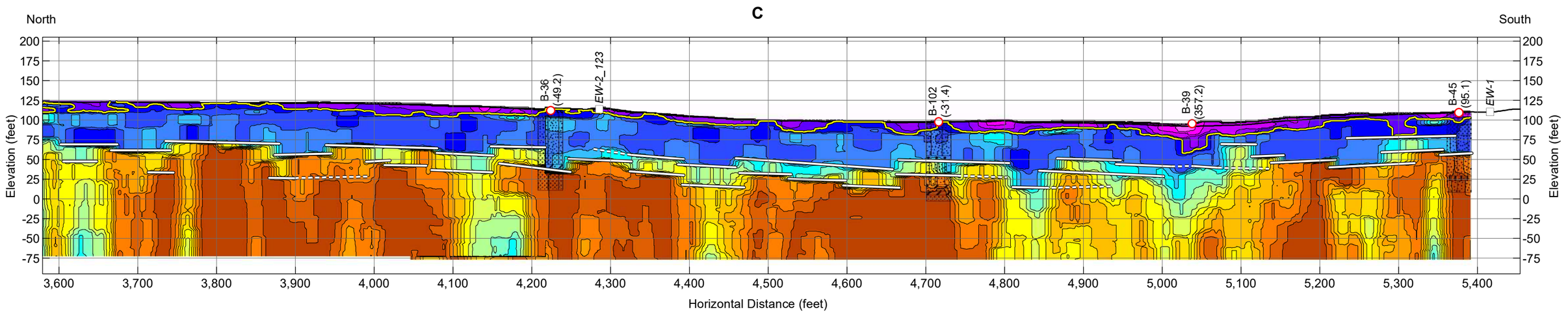
For legend see Plate B-4

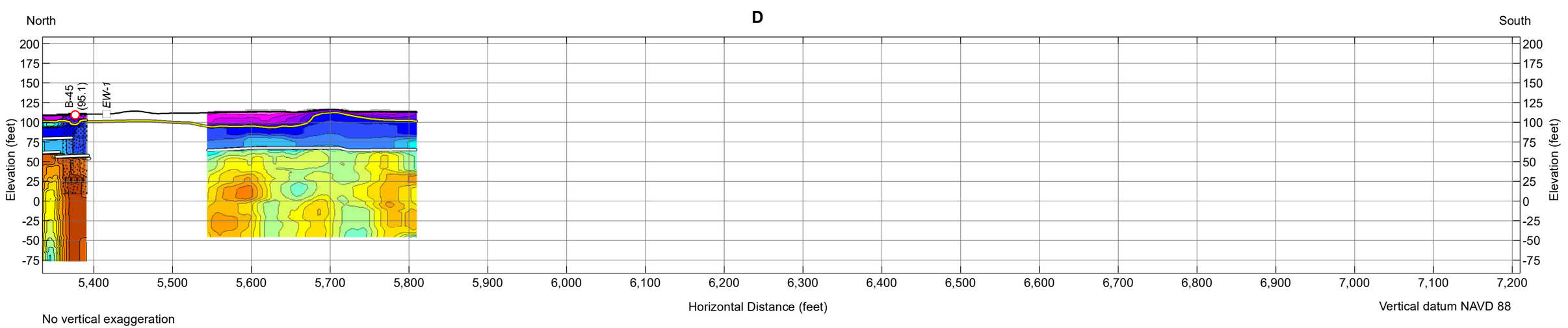
IMASW VS TOMOGRAPHY PROFILE:
2015 LINE NS-4 (TL-4), SOUTH

ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-33

P:\Projects\10_0000\10_140334_AKLNG_PreFEED_Phase2\05_Graphics\10_140334 Geophysics\B33_D_293_A_IMASW_Profile_TL4.mxd: jholmberg; 5/13/2016





No vertical exaggeration

Vertical datum NAVD 88

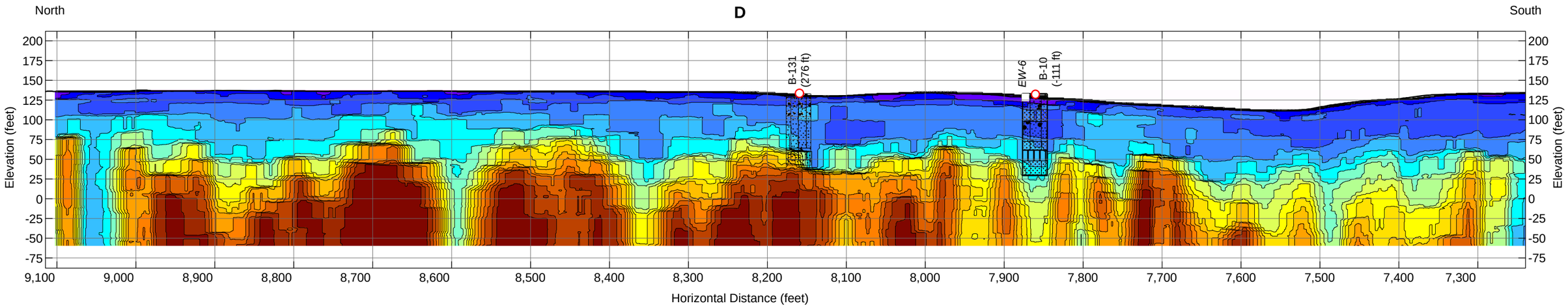
For legend see Plate B-4

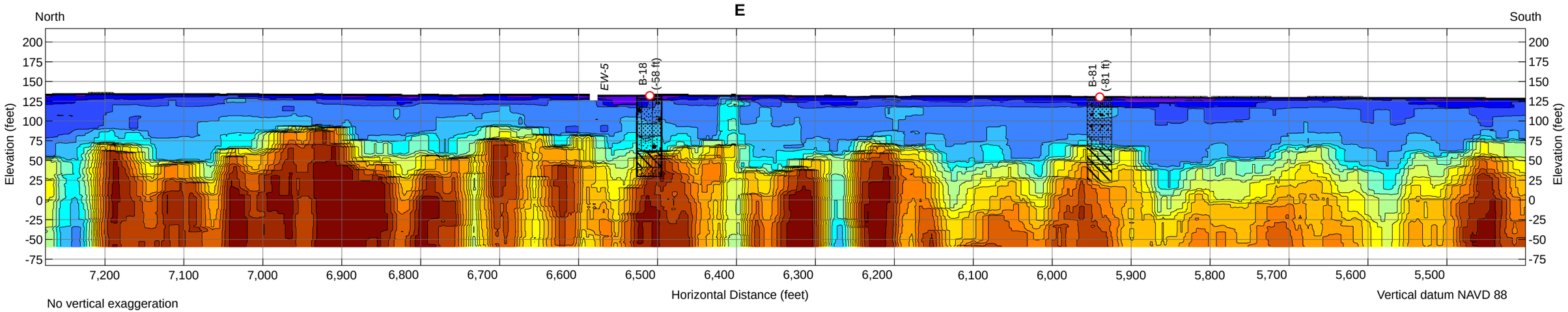
IMASW VS TOMOGRAPHY PROFILE:
2015 LINE NS-4 (TL-4), SOUTH, INTERPRETED

ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-34

P:\Projects\10_0000\10_140334_AKLNG_PreFEED_Phase2\05_Graphics\10_140334 Geophysics\B34_D_293_B_IMASW_Profile_TL4.mxd: jholmberg; 5/13/2016





No vertical exaggeration

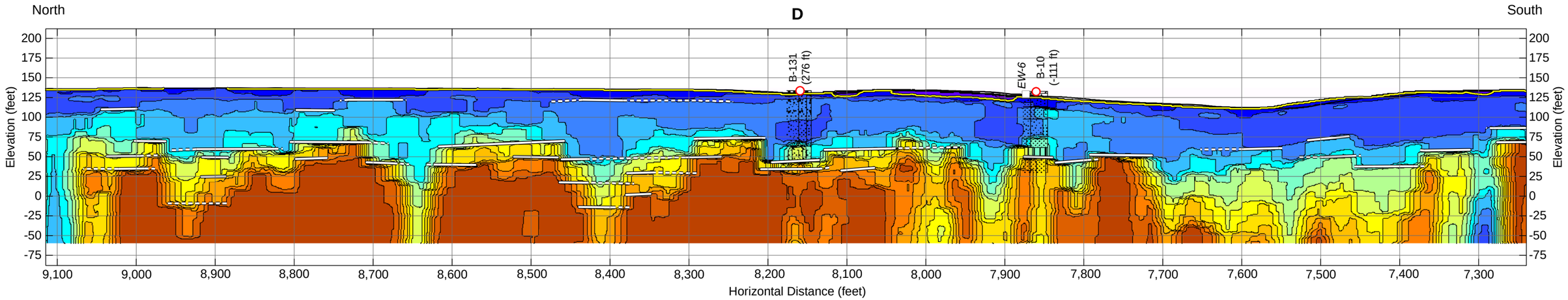
Vertical datum NAVD 88

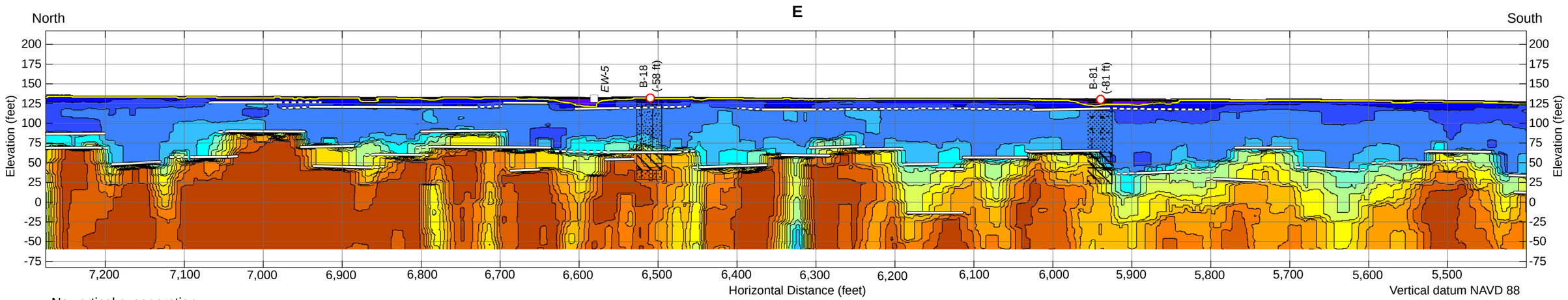
For legend see Plate B-4

IMASW VS TOMOGRAPHY PROFILE:
2015 LINE NS-5 NORTH
ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-35

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No vertical exaggeration

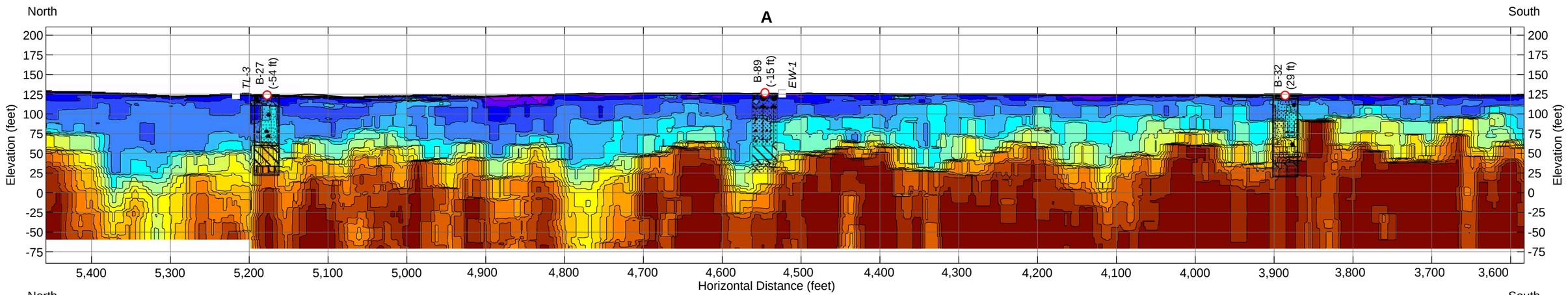
Vertical datum NAVD 88

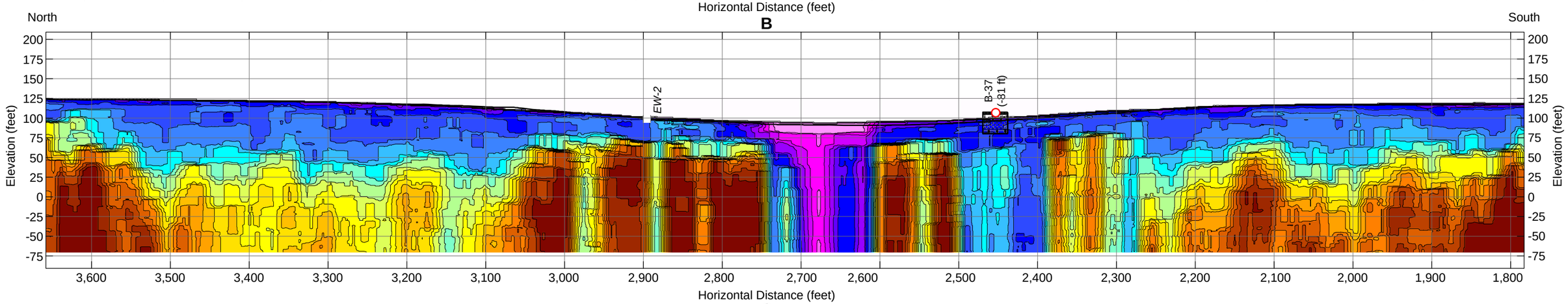
For legend see Plate B-4

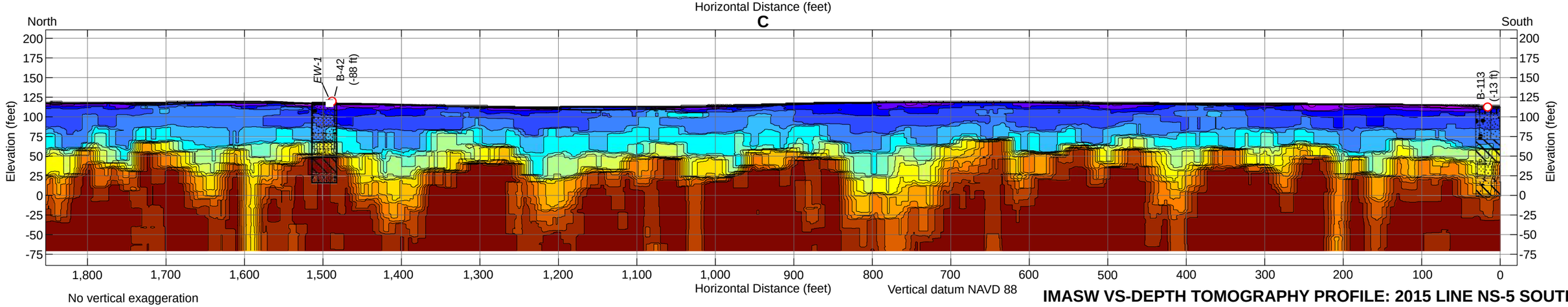
IMASW VS-DEPTH TOMOGRAPHY PROFILE: 2015
LINE NS-5 NORTH, INTERPRETED
ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-36

/lwlt-wc-file1/project/Projects/10_0000/10_140334_AKLNG_PreFEED_Phase2/05_Graphics/10_140334 Geophysics







No vertical exaggeration

Vertical datum NAVD 88

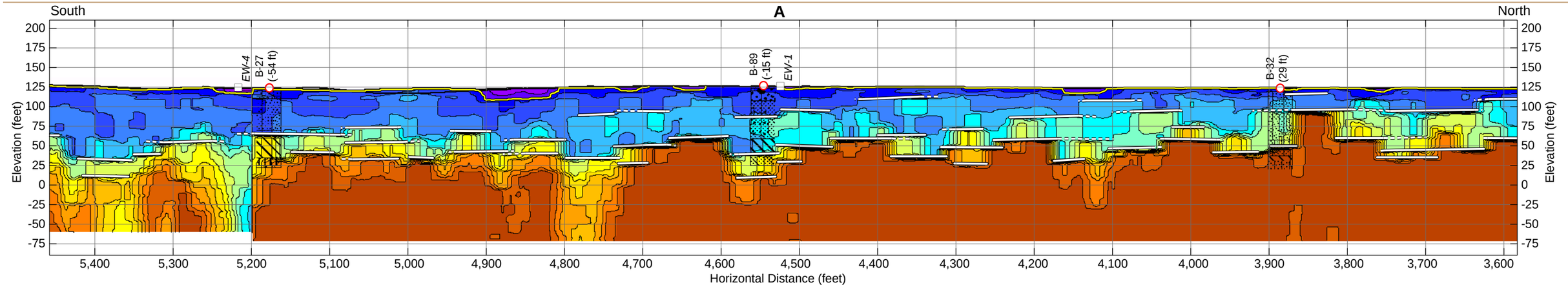
For legend see Plate B-4

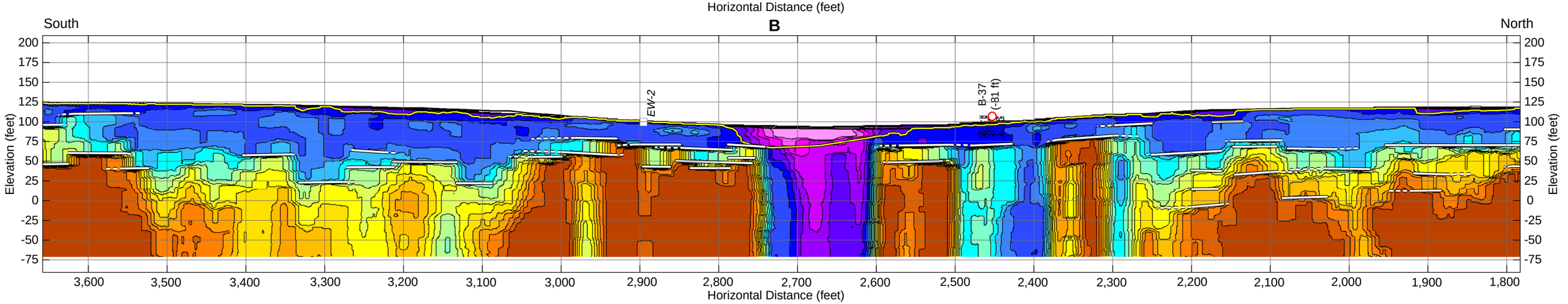
IMASW VS-DEPTH TOMOGRAPHY PROFILE: 2015 LINE NS-5 SOUTH

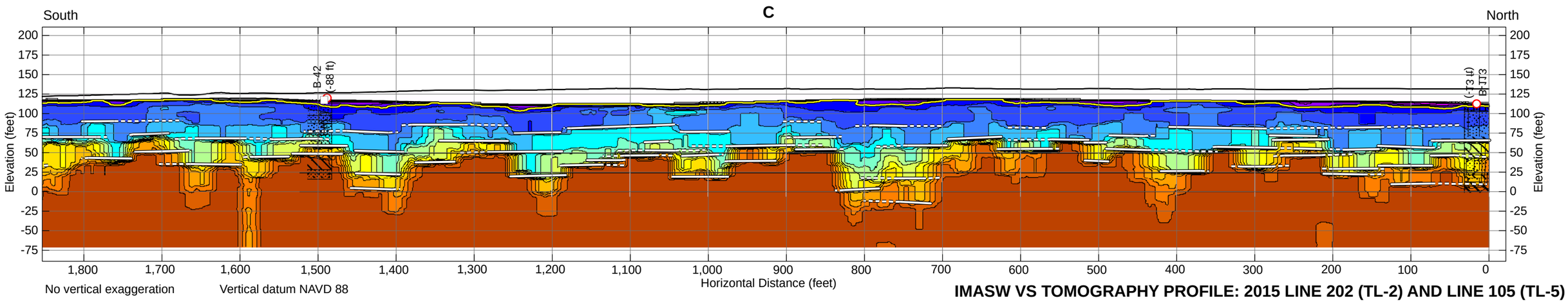
ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-37

/lwfa-wc-file1/project/Projects/10_0000/10_140334_AKLNG_PreFEED_Phase2/05_Graphics/10_140334 Geophysics







No vertical exaggeration Vertical datum NAVD 88

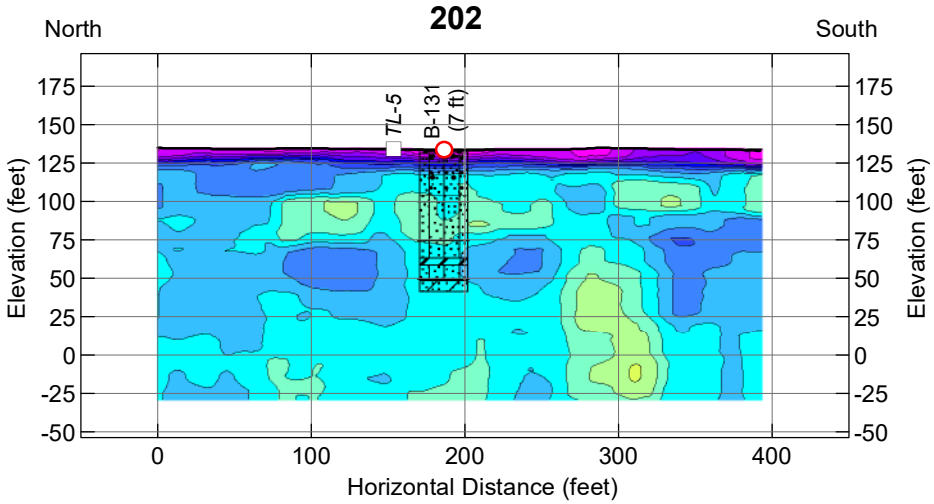
IMASW VS TOMOGRAPHY PROFILE: 2015 LINE 202 (TL-2) AND LINE 105 (TL-5)

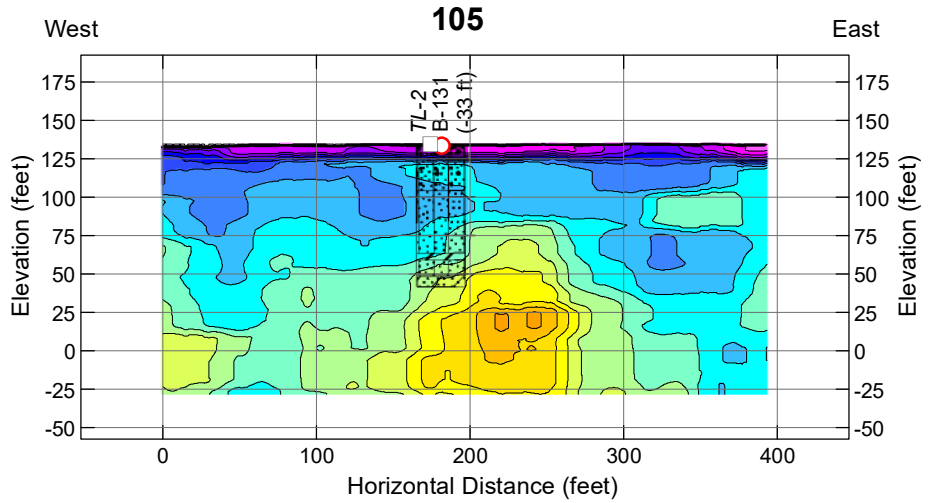
For legend see Plate B-4

ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-38

/fwlt-wc-file1/project/Projects/10_0000/10_140334_AKLNG_PreFEED_Phase2/05_Graphics/10_140334 Geophysics





Vertical datum NAVD 88

No vertical exaggeration

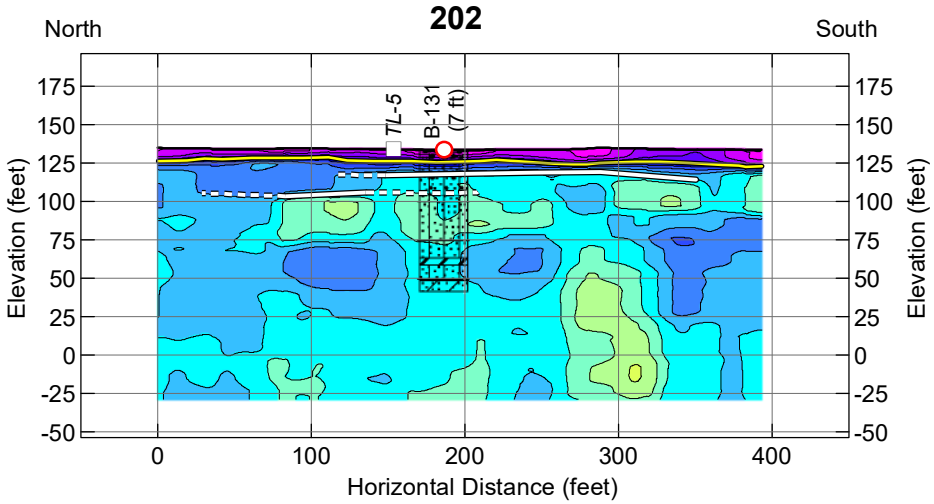
For legend see Plate B-4

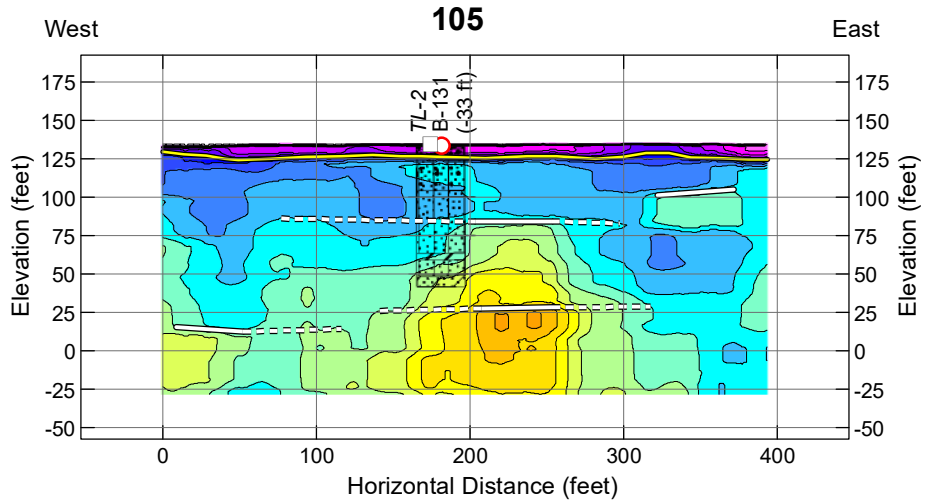
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IMASW VS TOMOGRAPHY PROFILE:
2015 LINE 202 (TL-2) AND LINE 105 (TL-5)

ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-39





Vertical datum NAVD 88

No vertical exaggeration

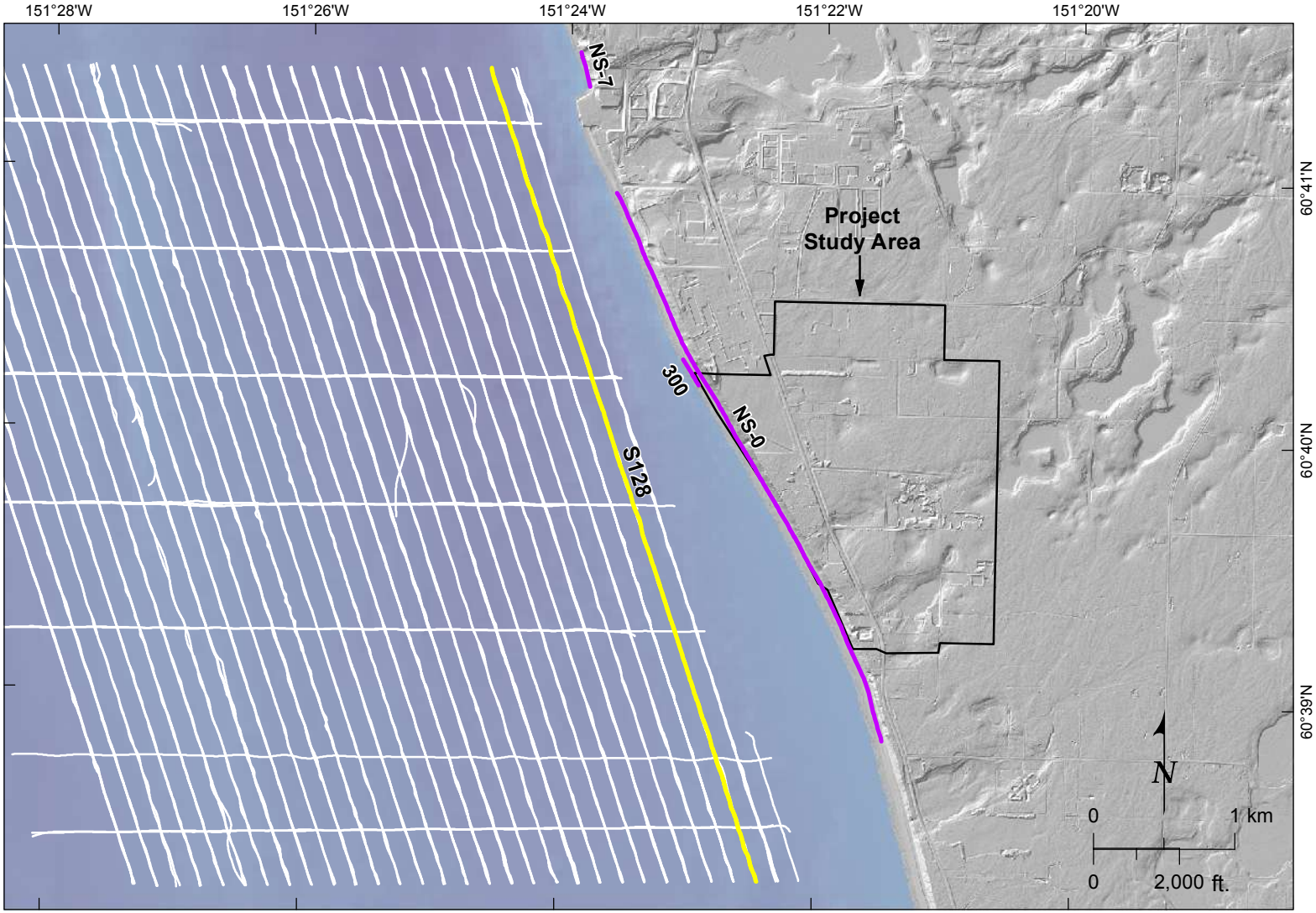
For legend see Plate B-4

IMASW VS TOMOGRAPHY PROFILE:
2015 LINE 202 (TL-2) AND LINE 105 (TL-5), INTERPRETED

ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-40

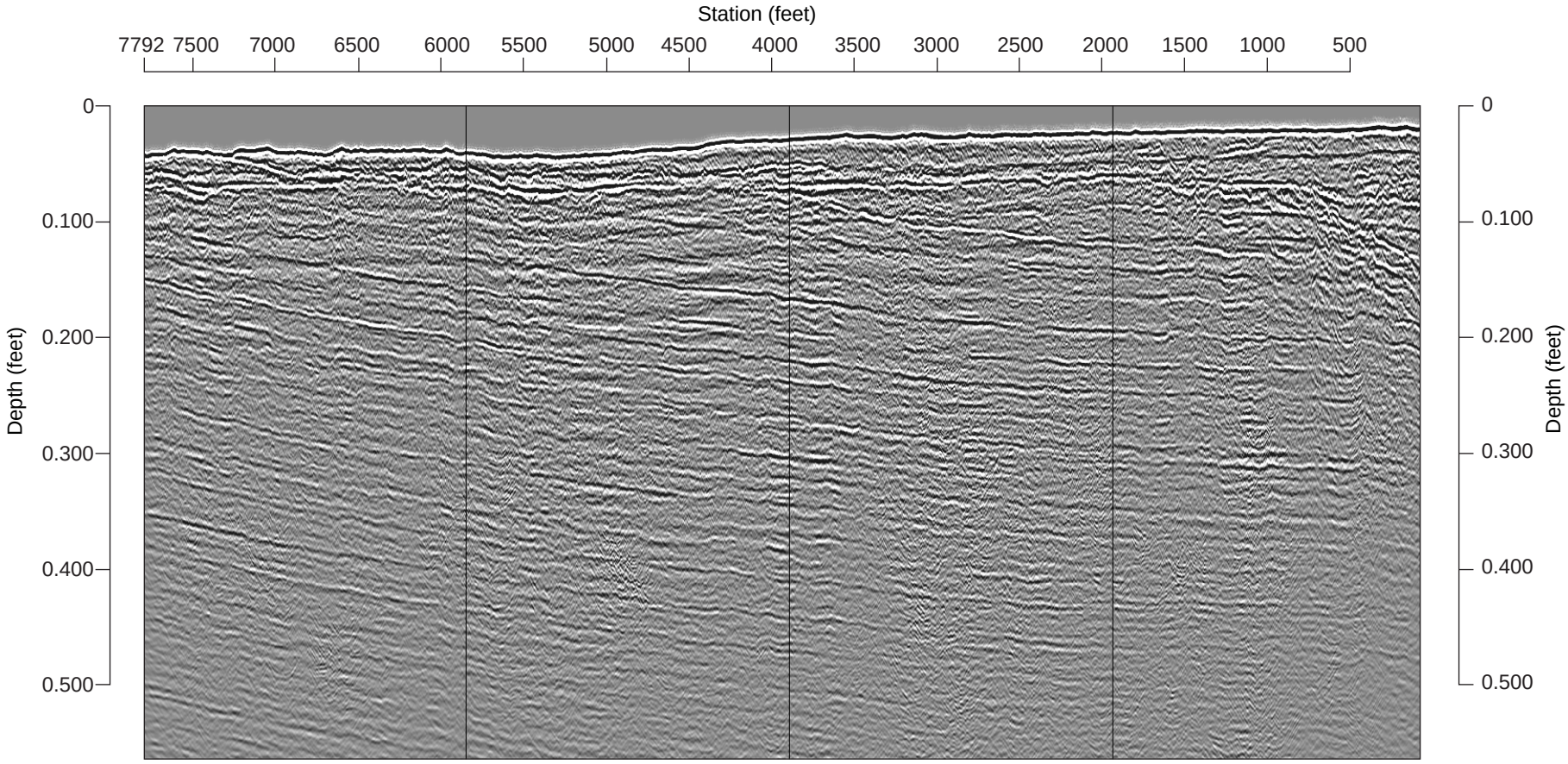
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LOCATION OF MARINE AIRGUN LINE S128 AND ONSHORE LINES NS-0, NS-7, L300
ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-41

P:\Projects\10_0000\10_140334_AKLNG_PreFEED_Phase2\05_Graphics\10_140334 Geophysics\B41_D_324_MarineAirGun_OnshoreLines.mxd; ticci; 5/13/2016

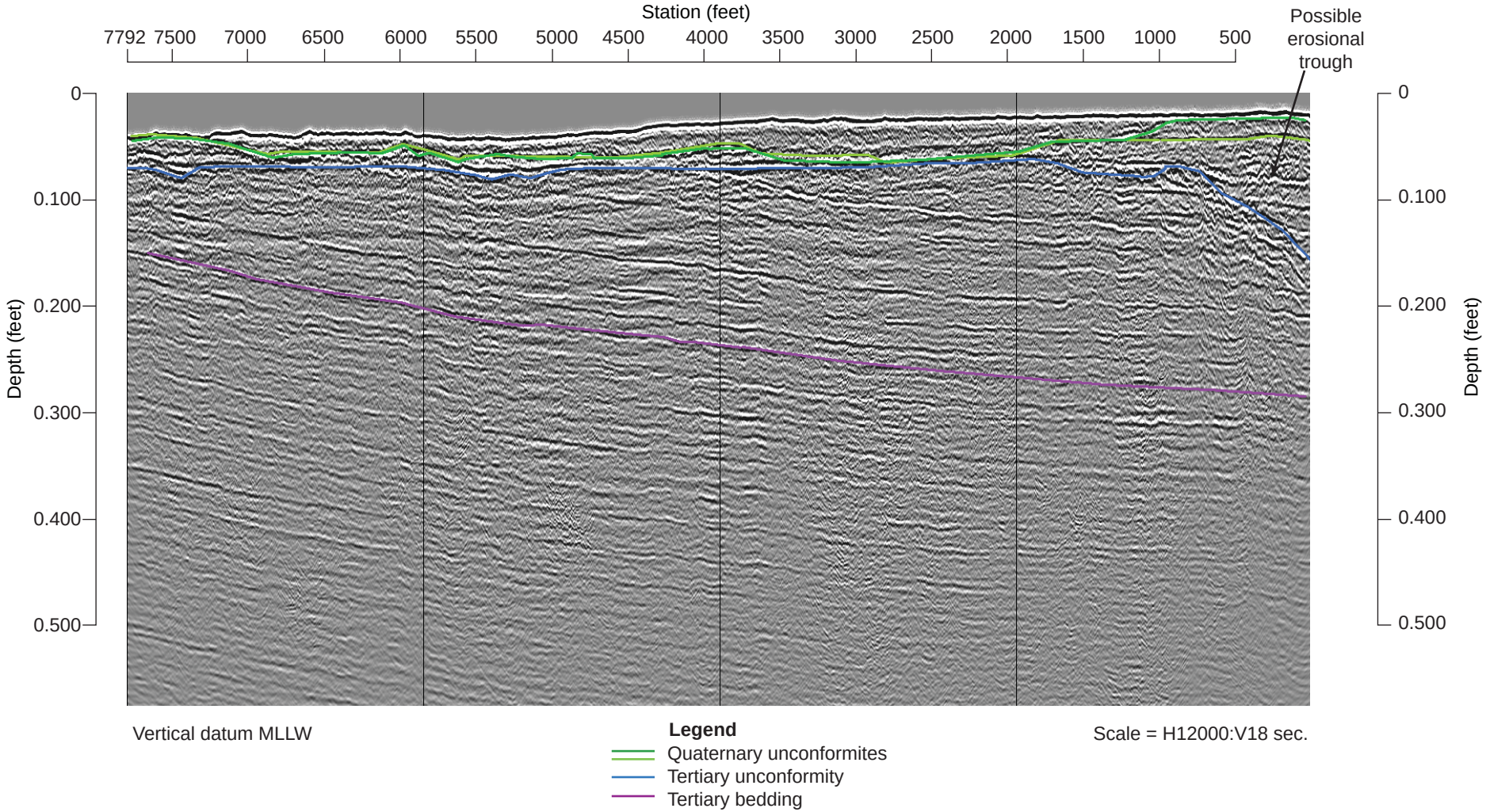


Vertical datum MLLW

fvlla-wc-file1/project/Projects/10_000010_140334_AKLNG_PreFEED_Phase2/05_Graphics/10_140334 Geophysics

SEISMIC REFLECTION PROFILE: MARINE AIRGUN LINE S128
ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-42

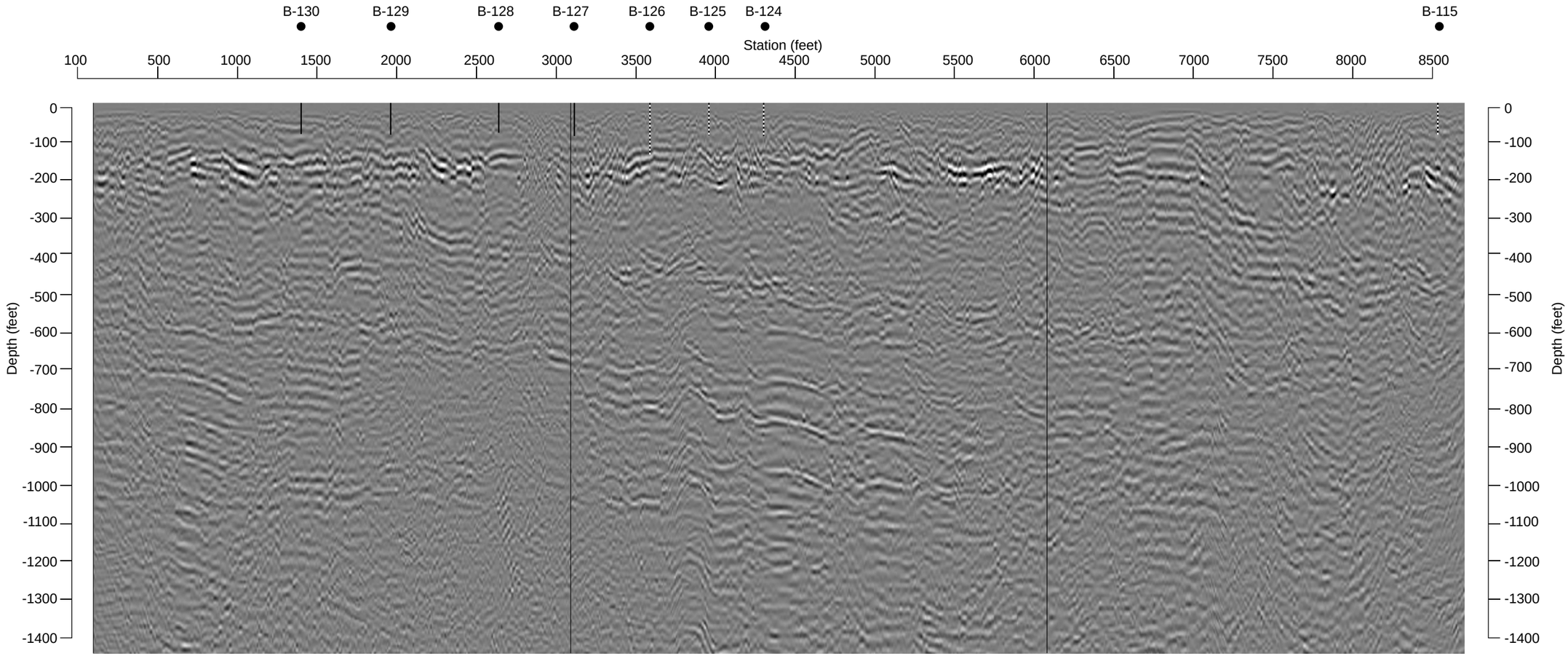


SEISMIC REFLECTION PROFILE: MARINE AIRGUN LINE S128, INTERPRETED

ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-43

fwla-wc-file1/project/Projects/10_000/10_140334_AKLNG_PreFEED_Phase2/05_Graphics/10_140334 Geophysics

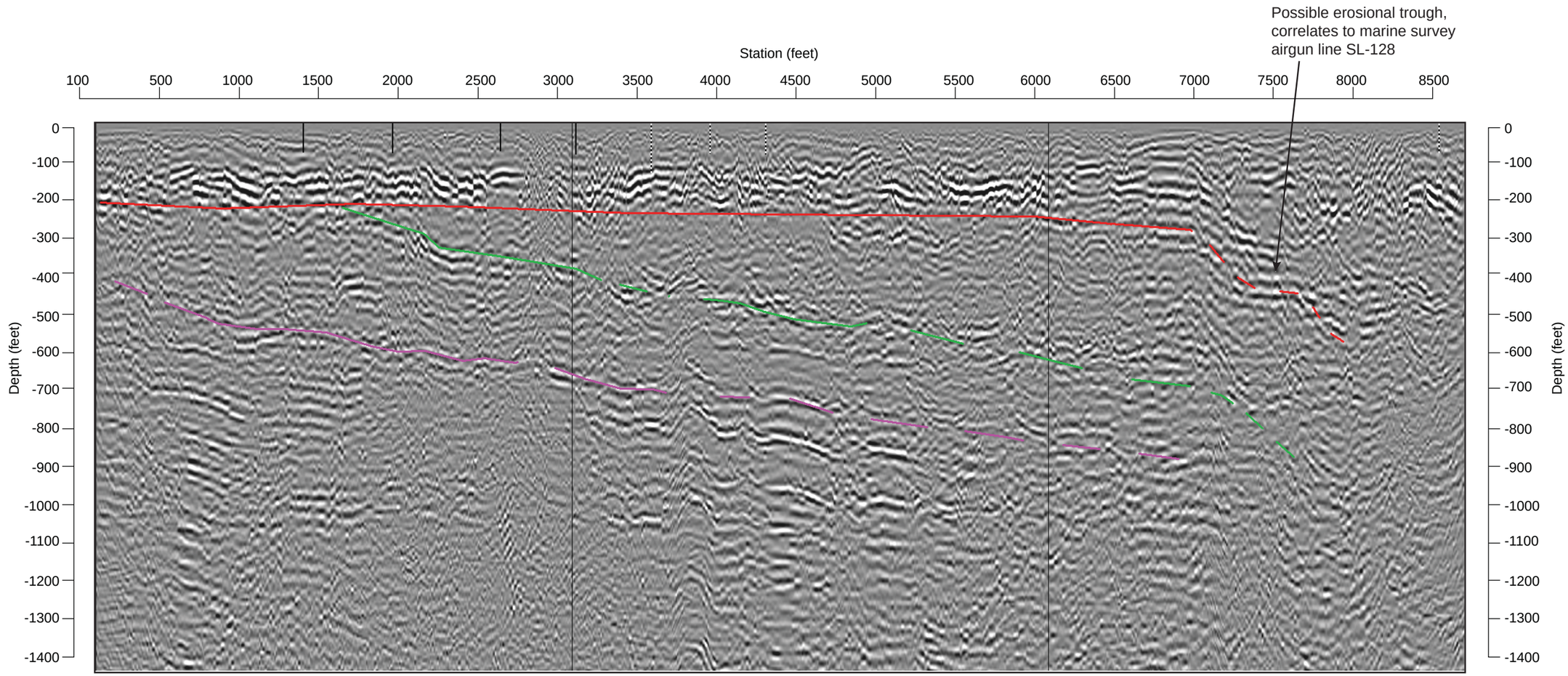


Legend

B-129
● Borehole and borehole number

HIGH RESOLUTION SEISMIC REFLECTION PROFILE: 2015 LINE NS-0 BEACH
ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-44



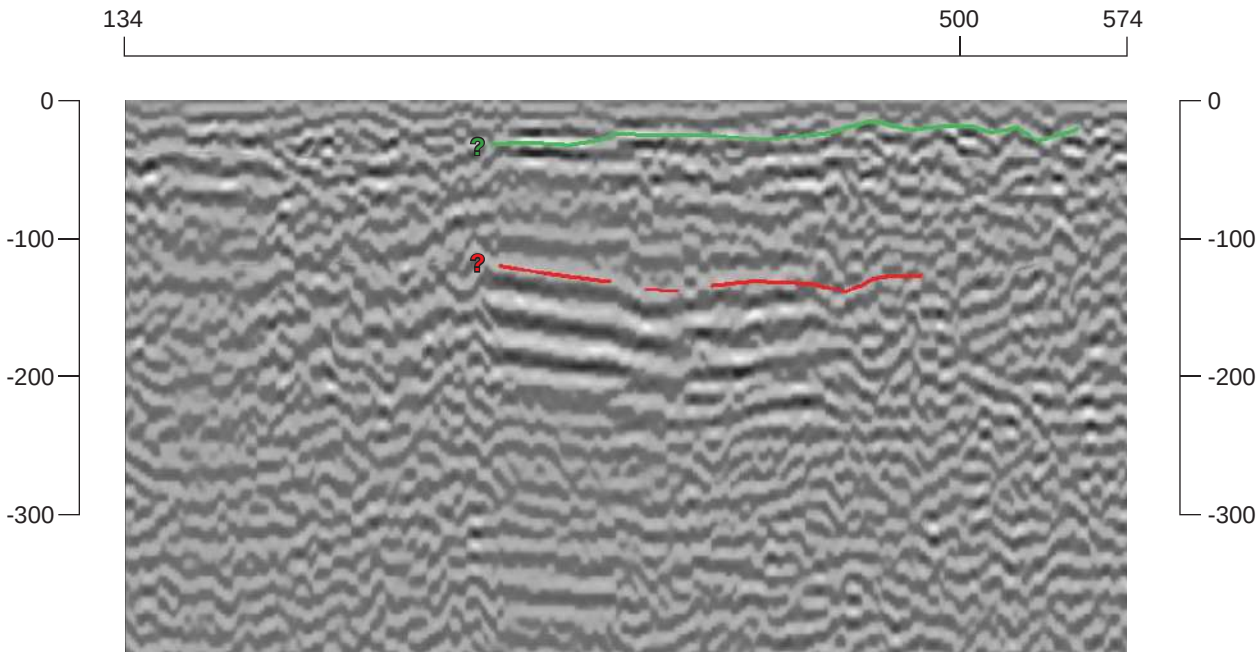
Scale = H6000:V1500

Legend

Arbitrary reflectors

HIGH RESOLUTION SEISMIC REFLECTION PROFILE:
2015 LINE NS-0 BEACH, INTERPRETED
ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-45



Scale = H750:V750

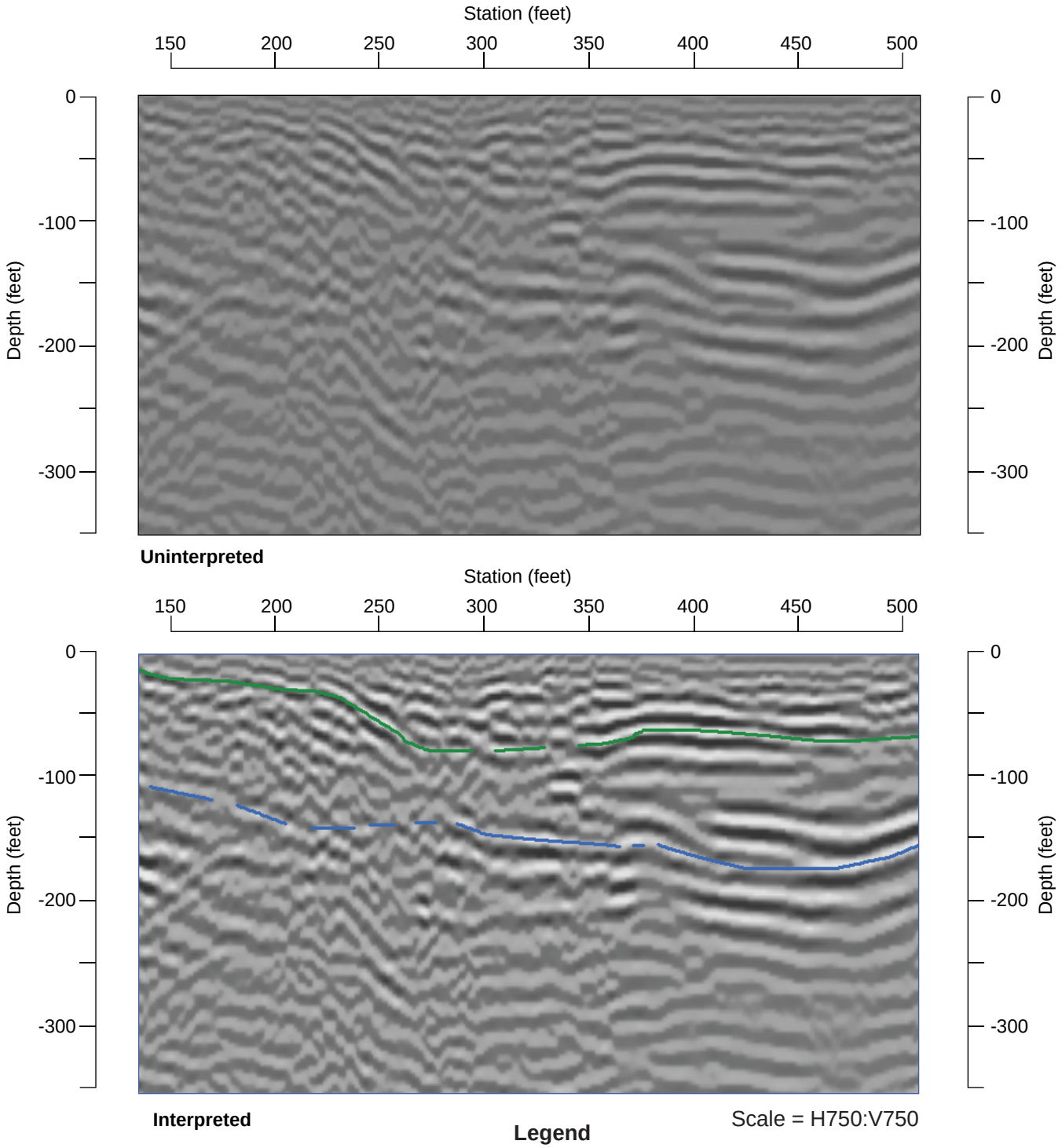
Legend

Arbitrary reflectors

fwla-wc-file1/project/Projects/10_0000/10_140334_AKLNG_PreFEED_Phase2/05_Graphics/10_140334 Geophysics

HIGH RESOLUTION SEISMIC REFLECTION PROFILE:
2015 LINE NS-7 BEACH, INTERPRETED
ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

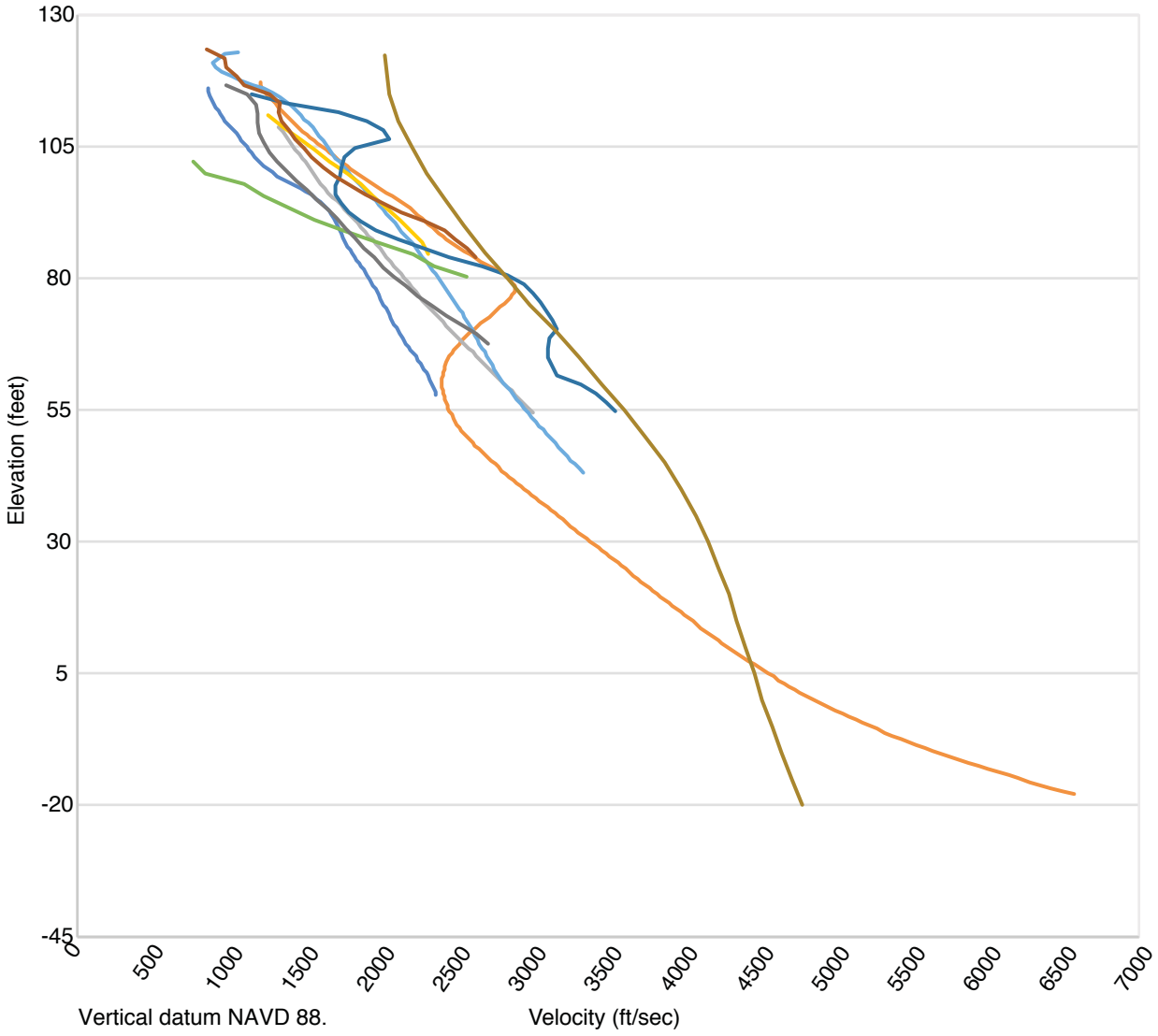
PLATE B-46



HIGH RESOLUTION SEISMIC REFLECTION
PROFILE: 2015 LINE L300 BEACH
ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-47

fwla-wc-file1/project/Projects/10_0000/10_140334_AKLNG_PreFEED_Phase2/05_Graphics/10_140334 Geophysics



Legend

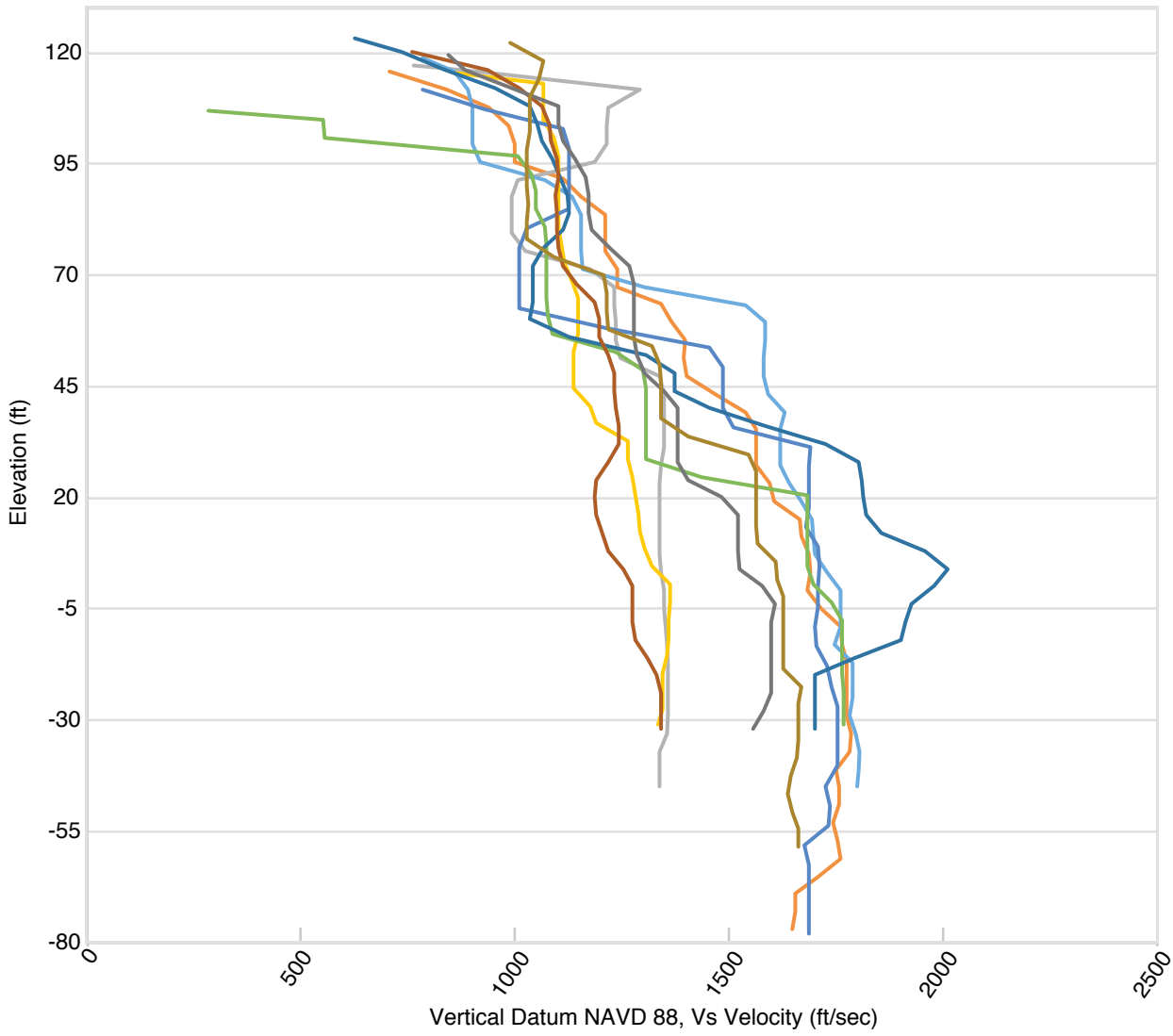
- ID-10
- ID-9
- ID-8
- ID-7
- ID-6
- ID-5
- ID-4
- ID-3
- ID-2
- ID-1

See Plate B-3 for profile locations.

VP PROFILES AT SELECTED LOCATIONS
ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-48

fwla-wc-file1/project/Projects/10_0000/10_140334_AKLNG_PreFEED_Phase2/05_Graphics/10_140334 Geophysics



Legend

- ID-10
- ID-9
- ID-8
- ID-7
- ID-6
- ID-5
- ID-4
- ID-3
- ID-2
- ID-1

See Plate B-3 for profile locations.

VS PROFILES AT SELECTED LOCATIONS
ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE B-49

fwla-wc-file1/project/Projects/10_0000/10_140334_AKLNG_PreFEED_Phase2/05_Graphics/10_140334 Geophysics

APPENDIX C

DEEP SEISMIC SURVEY

	Plate
Deep Seismic Sources and Receivers	C-1
Deep Seismic Monitoring and Recording	C-2
2015 PSDM Tomographic Velocity Model, Seismic Reflection Line EW-3	C-3
2015 Seismic Reflection Profile Line EW-3, Depth Migrated - Uninterpreted	C-4
2015 Seismic Reflection Profile Line EW-3, Depth Migrated - Interpreted	C-5
2015 PSDM Tomographic Velocity Model, Seismic Reflection Line NS-2	C-6
2015 Seismic Reflection Profile Line NS-2, Depth Migrated - Uninterpreted	C-7
2015 Seismic Reflection Profile Line NS-2, Depth Migrated - Interpreted	C-8
2015 PSDM Tomographic Velocity Model, Seismic Reflection Line EW-8	C-9
2015 Seismic Reflection Profile Line EW-8, Depth Migrated - Uninterpreted	C-10
2015 Seismic Reflection Profile Line EW-8, Depth Migrated - Interpreted	C-11

A)



Inova AHV-IV Commander 66,000 lb vibroseis trucks starting data collection on Line NS-2 next to Nikiski Fire Station No.1.

B)



Example of an iSeis Sigma nodal recording unit deployed.

C)



Example of a Seistronix EX-6 unit and battery deployed.

DEEP SEISMIC SOURCES AND RECEIVERS
ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE C-1

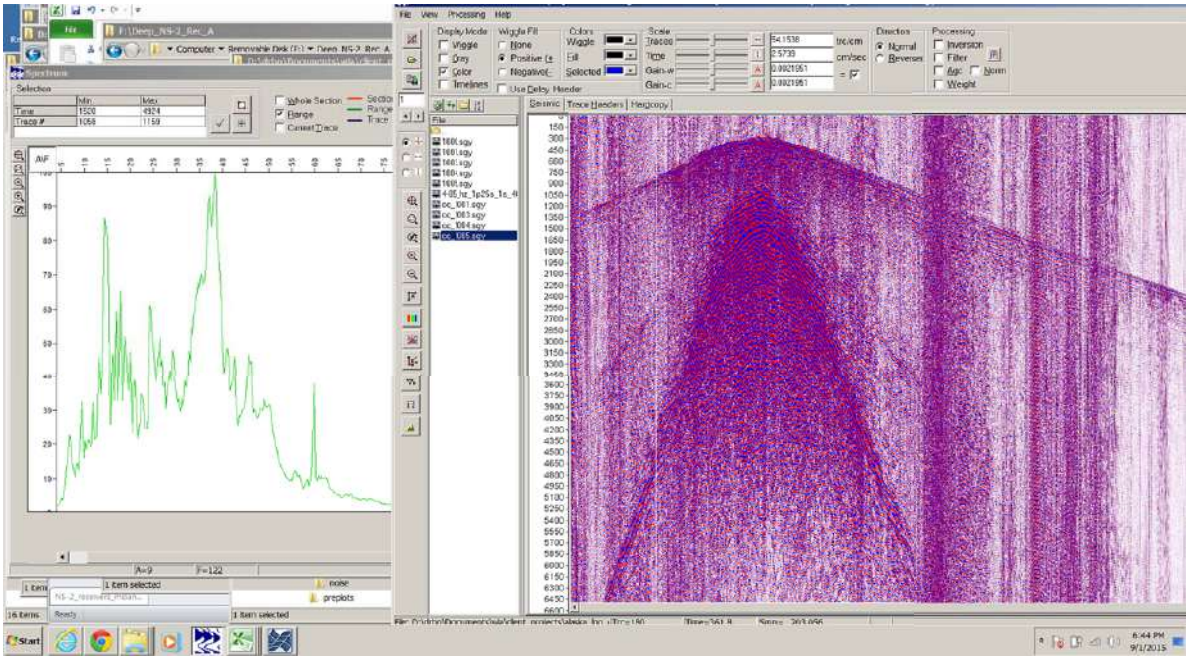
fwla-wc-file1/project/Projects/10_0000/10_140334_AKLNG_PreFEED_Phase2/05_Graphics/10_140334_Geophysics

A)



Instantel Blastmate 3 vibration monitor deployed near the Nikiski Fire Station #1.

B)

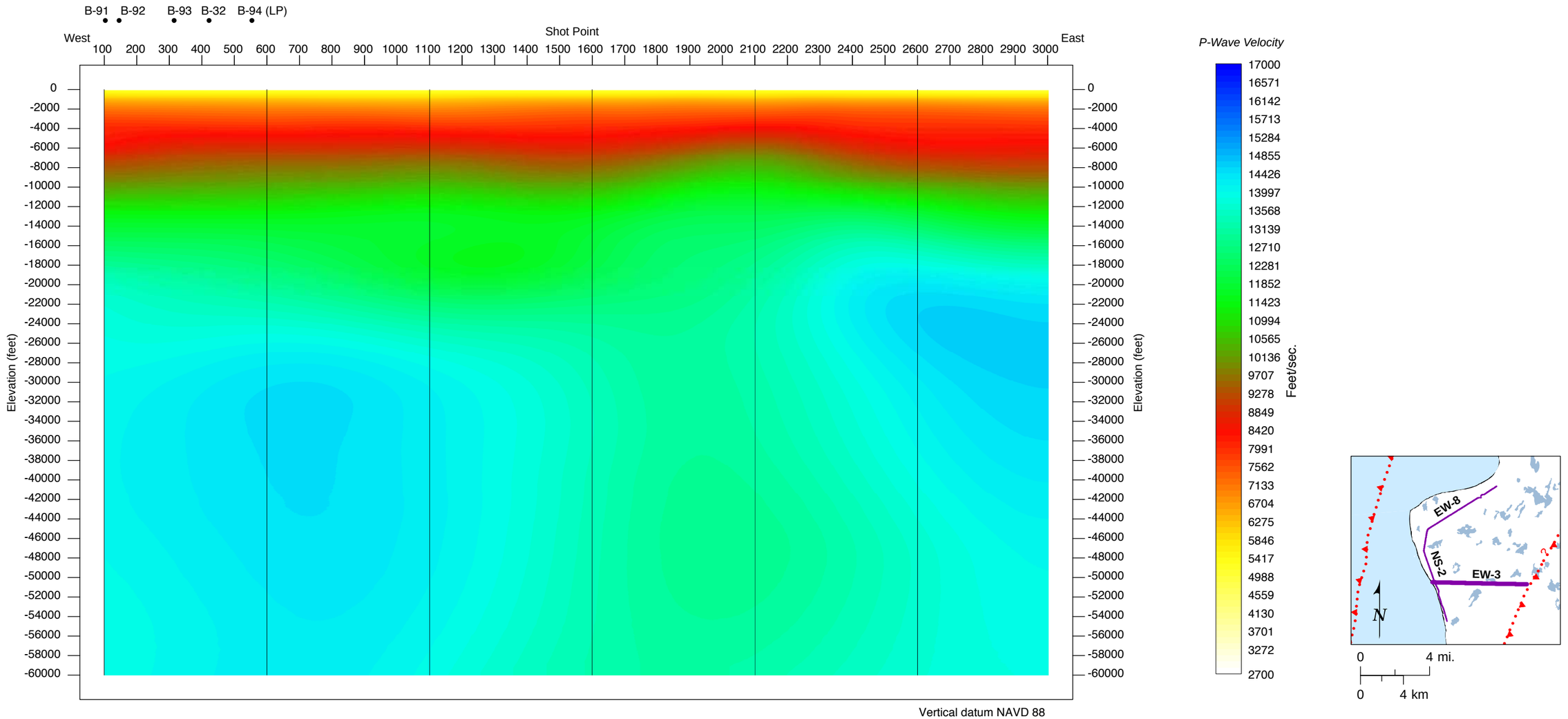


Sample sweep parameter test record collected on September 1, 2015.

DEEP SEISMIC MONITORING AND RECORDING
ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE C-2

fwla-wc-file1/project/Projects/10_0000/10_140334_AKLNG_PreFEED_Phase2/05_Graphics/10_140334_Geophysics



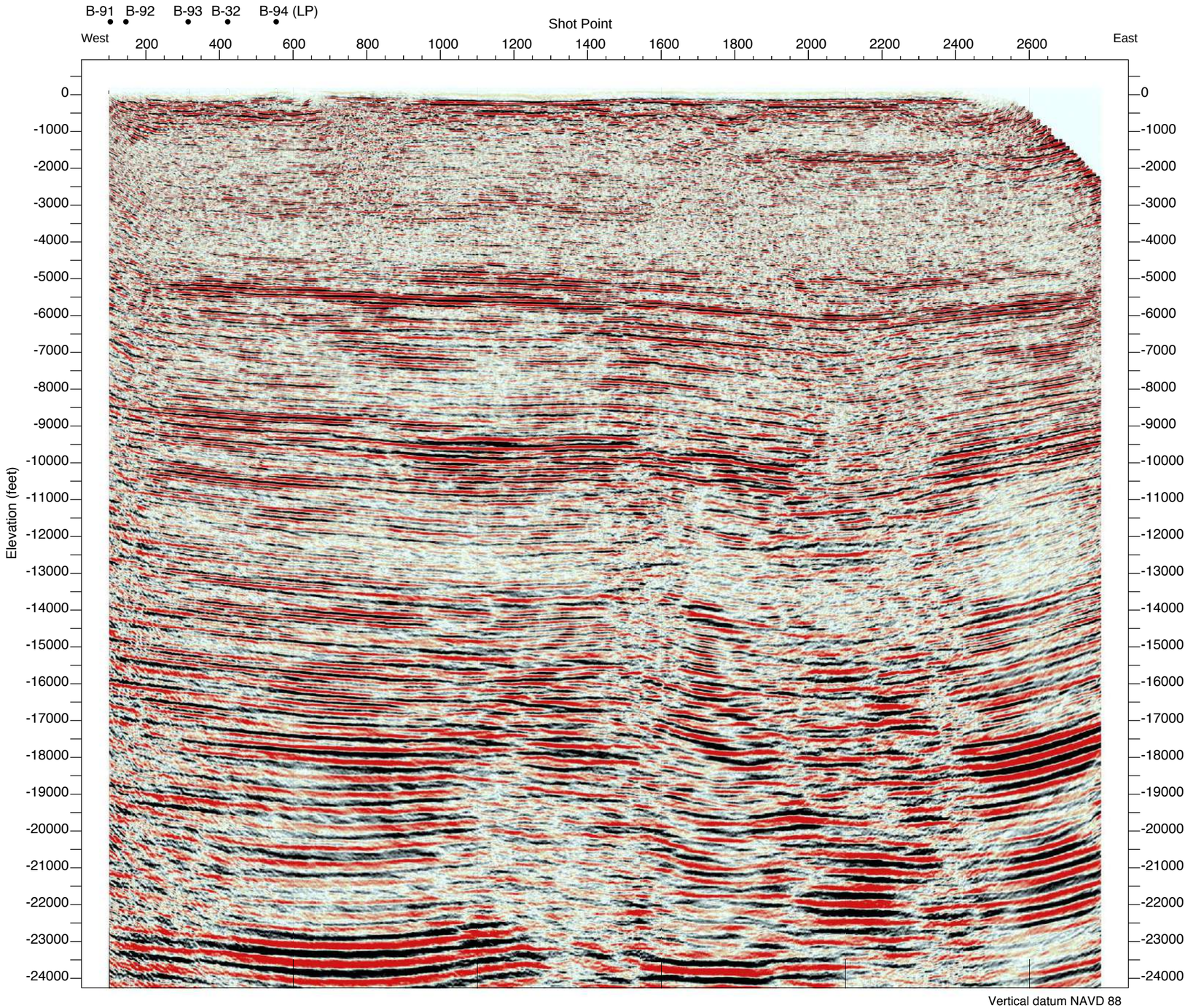
Legend

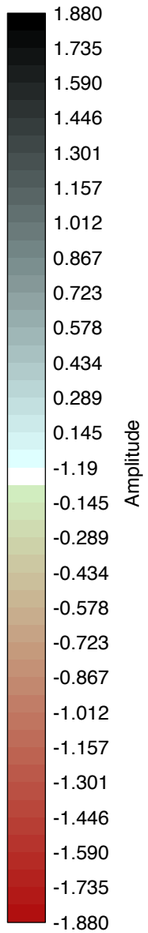
B-91 ● Borehole and borehole number

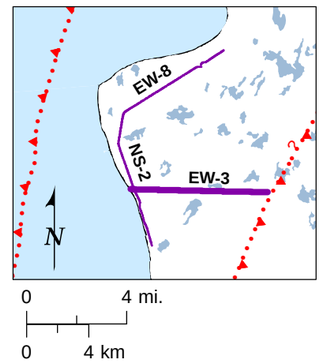
2015 PSDM TOMOGRAPHIC VELOCITY MODEL, SEISMIC REFLECTION LINE EW-3
ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE C-3

fwla-wc-file1/project/Projects/10_0000/10_140334_AKLNG_PreFEED_Phase2/05_Graphics/10_140334 Interim Geophysics







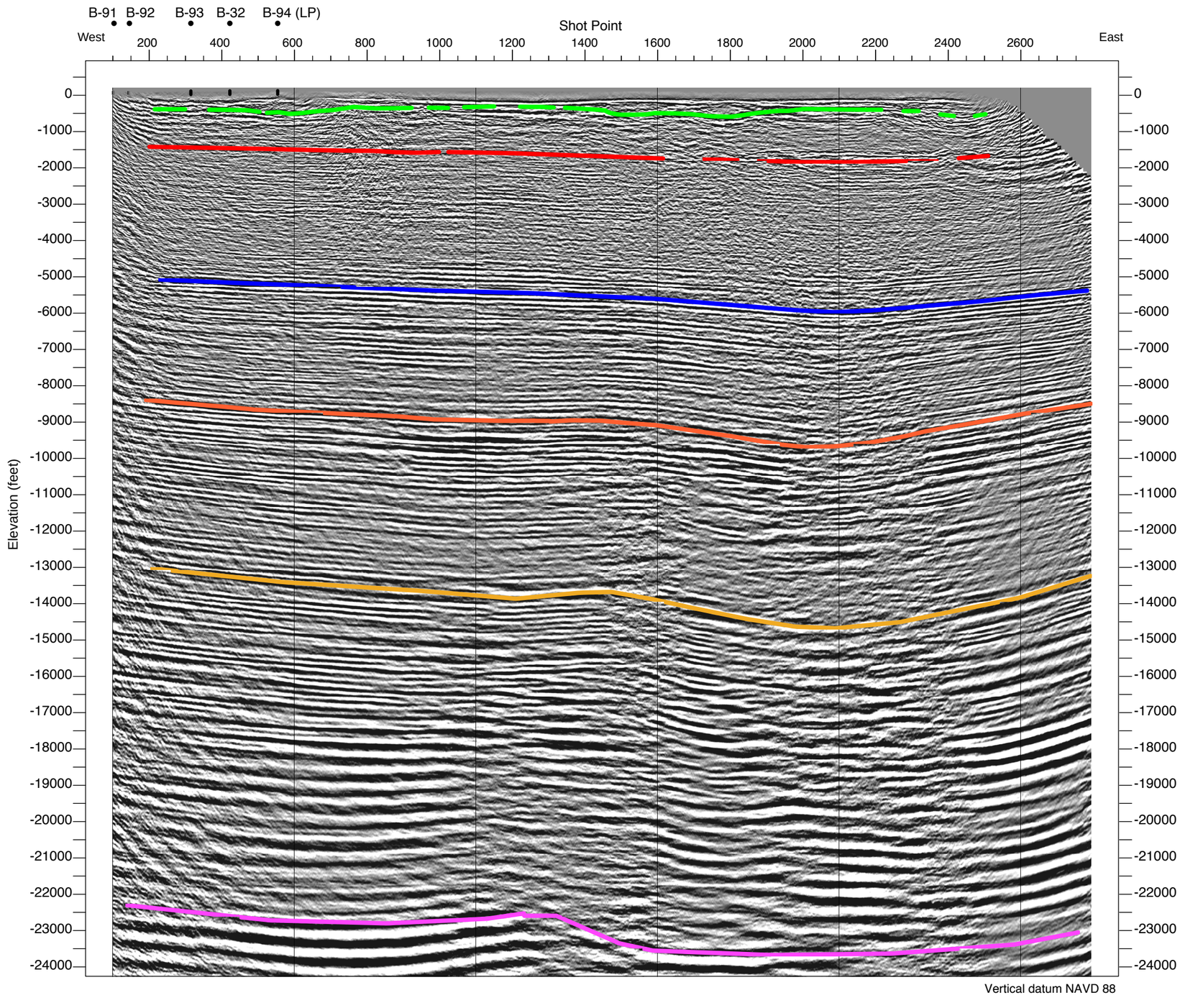
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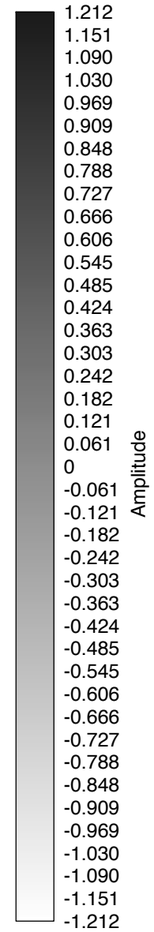
B-91 ● Borehole and number

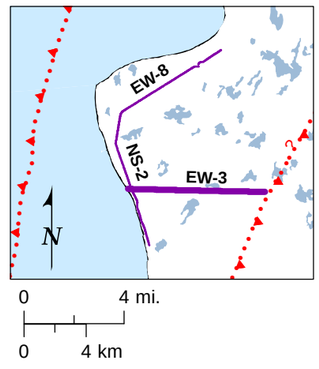
2015 SEISMIC REFLECTION PROFILE LINE
EW-3, DEPTH MIGRATED - UNINTERPRETED
ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE C-4

fwla-wc-file1/project/Projects/10_0000/10_140334_AKLNG_PreFEED_Phase2/05_Graphics/10_140334 Interim Geophysics







Legend

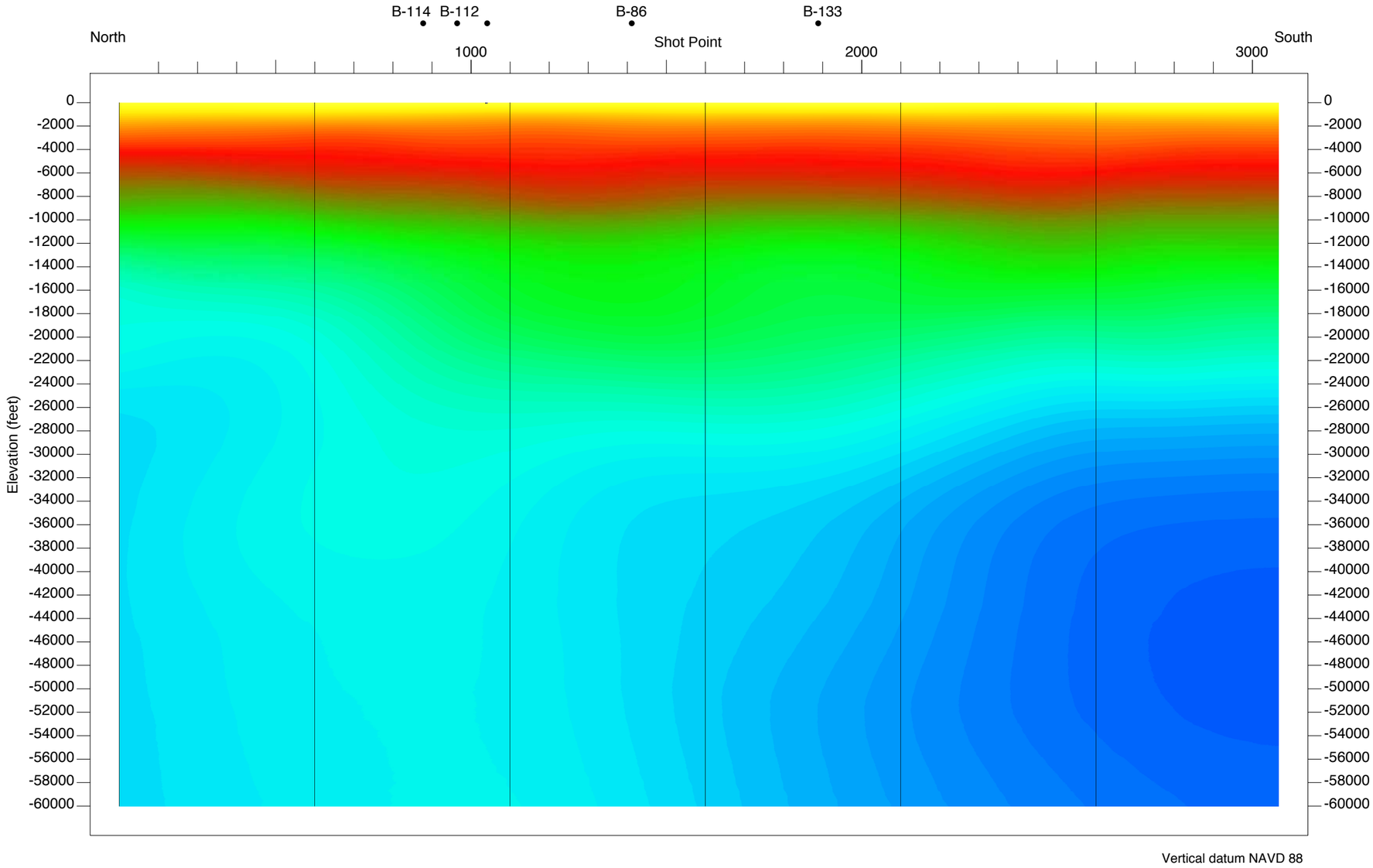
- B-91 — Borehole and number
- Unconformity
- Arbitrary reflectors

2015 SEISMIC REFLECTION PROFILE LINE EW-3, DEPTH MIGRATED - INTERPRETED

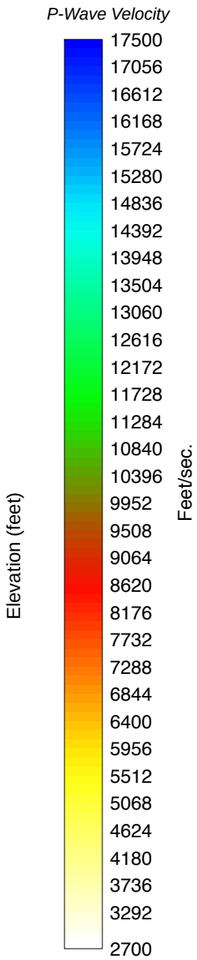
ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE C-5

fwla-wc-file1/project/Projects/10_0000/10_140334_AKLNG_PreFEED_Phase2/05_Graphics/10_140334 Interim Geophysics



Vertical datum NAVD 88



Legend

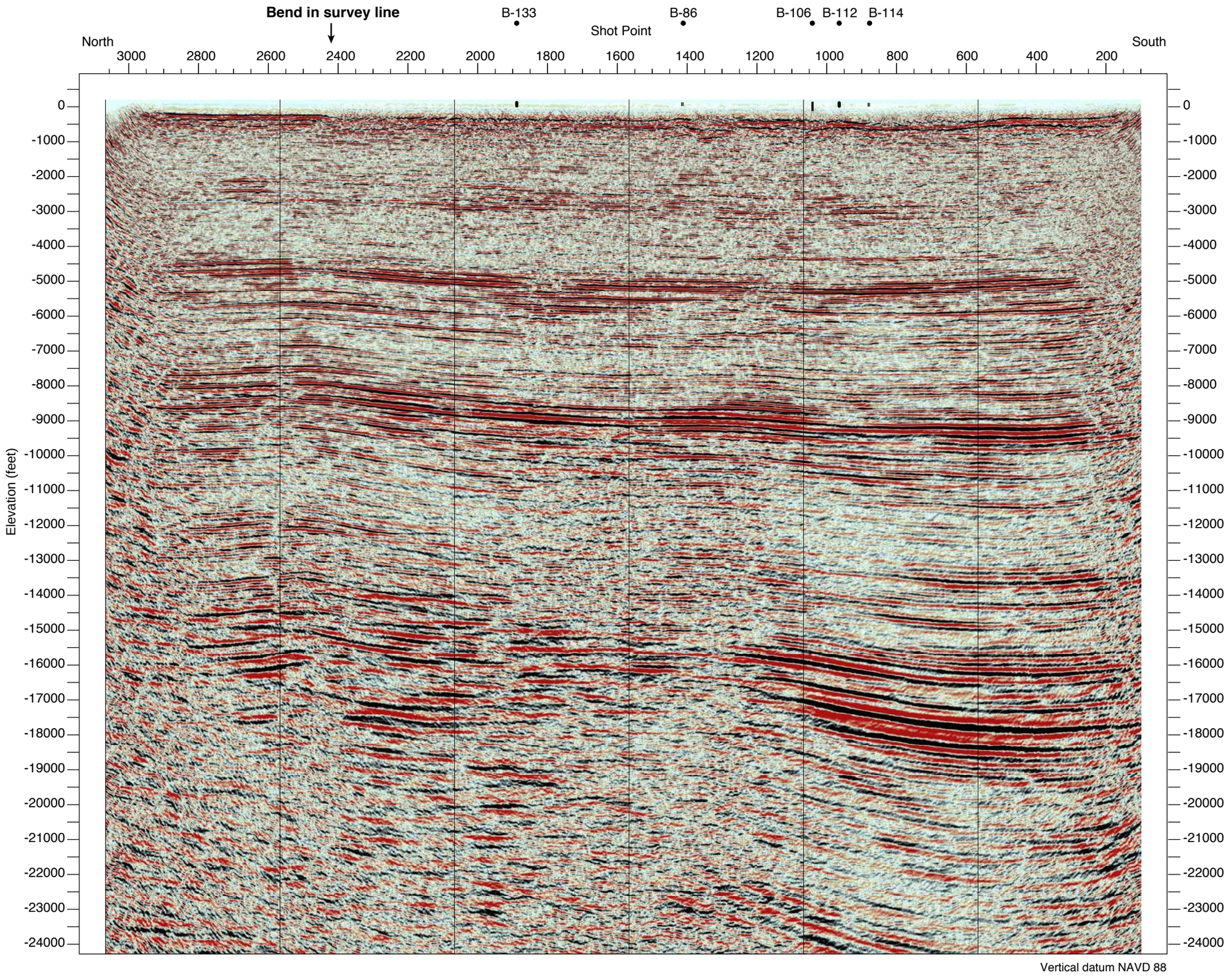
B-86 ● Borehole and borehole number

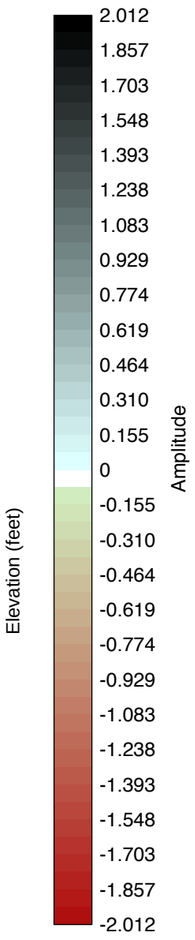
2015 PSDM TOMOGRAPHIC VELOCITY MODEL, SEISMIC REFLECTION LINE NS-2

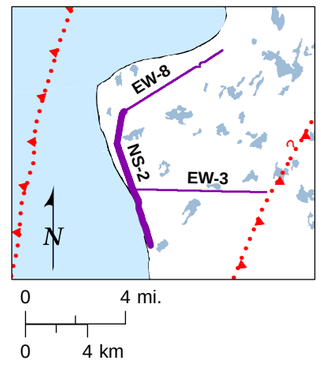
ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE C-6

fwla-wc-file1/project/Projects/10_0000/10_140334_AKLNG_PreFEED_Phase2/05_Graphics/10_140334 Interim Geophysics







Legend

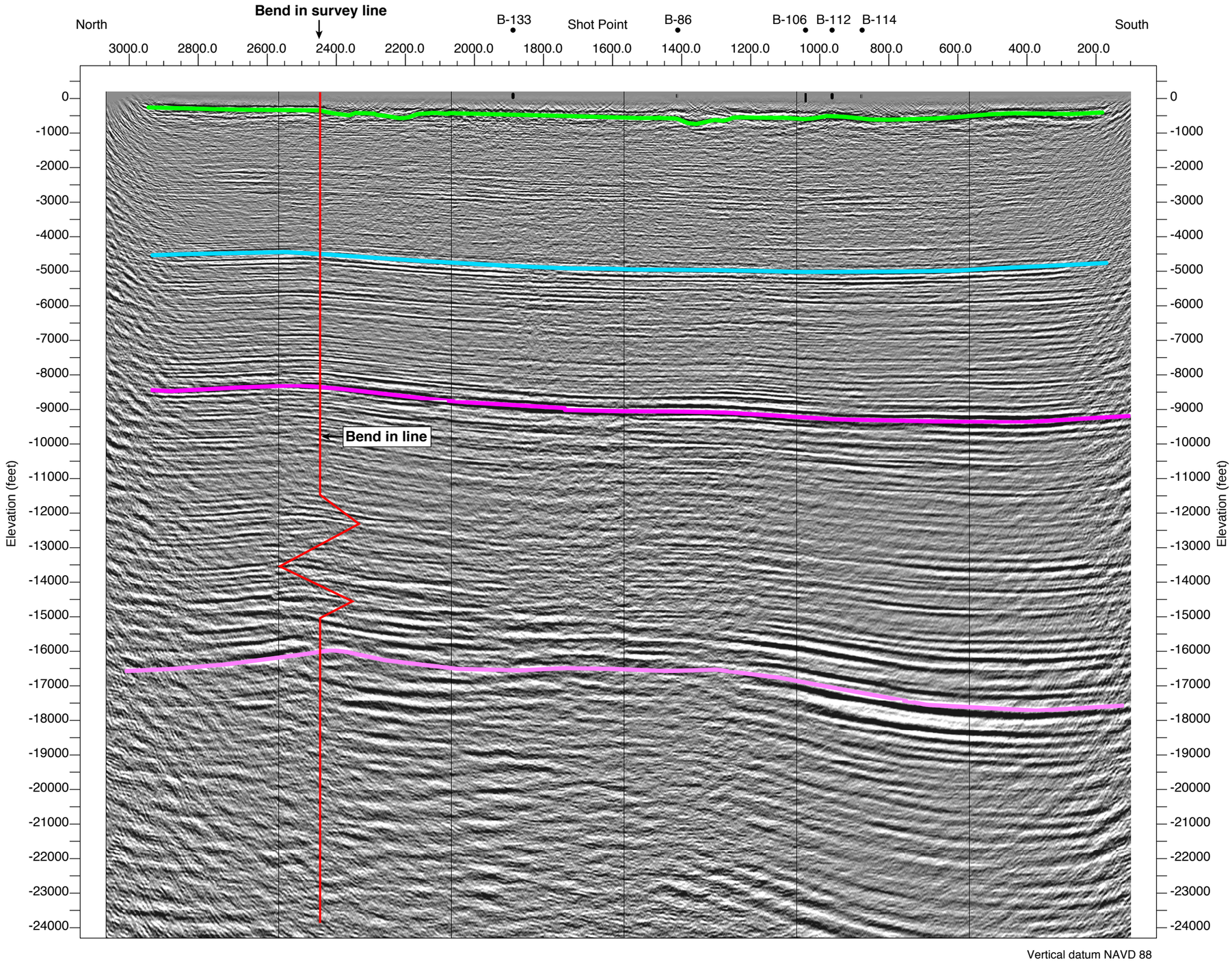
B-133 Borehole and number

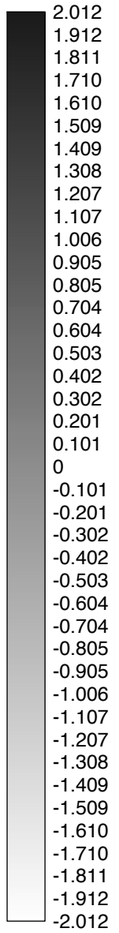
2015 SEISMIC REFLECTION PROFILE LINE NS-2, DEPTH MIGRATED - UNINTERPRETED

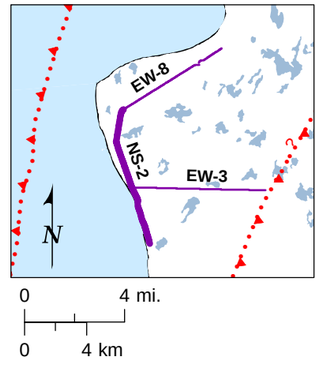
ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE C-7

fwla-wc-file1/project/Projects/10_0000/10_140334_AKLNG_PreFEED_Phase2/05_Graphics/10_140334 Interim Geophysics







Legend

B-133 Borehole and number

Unconformity

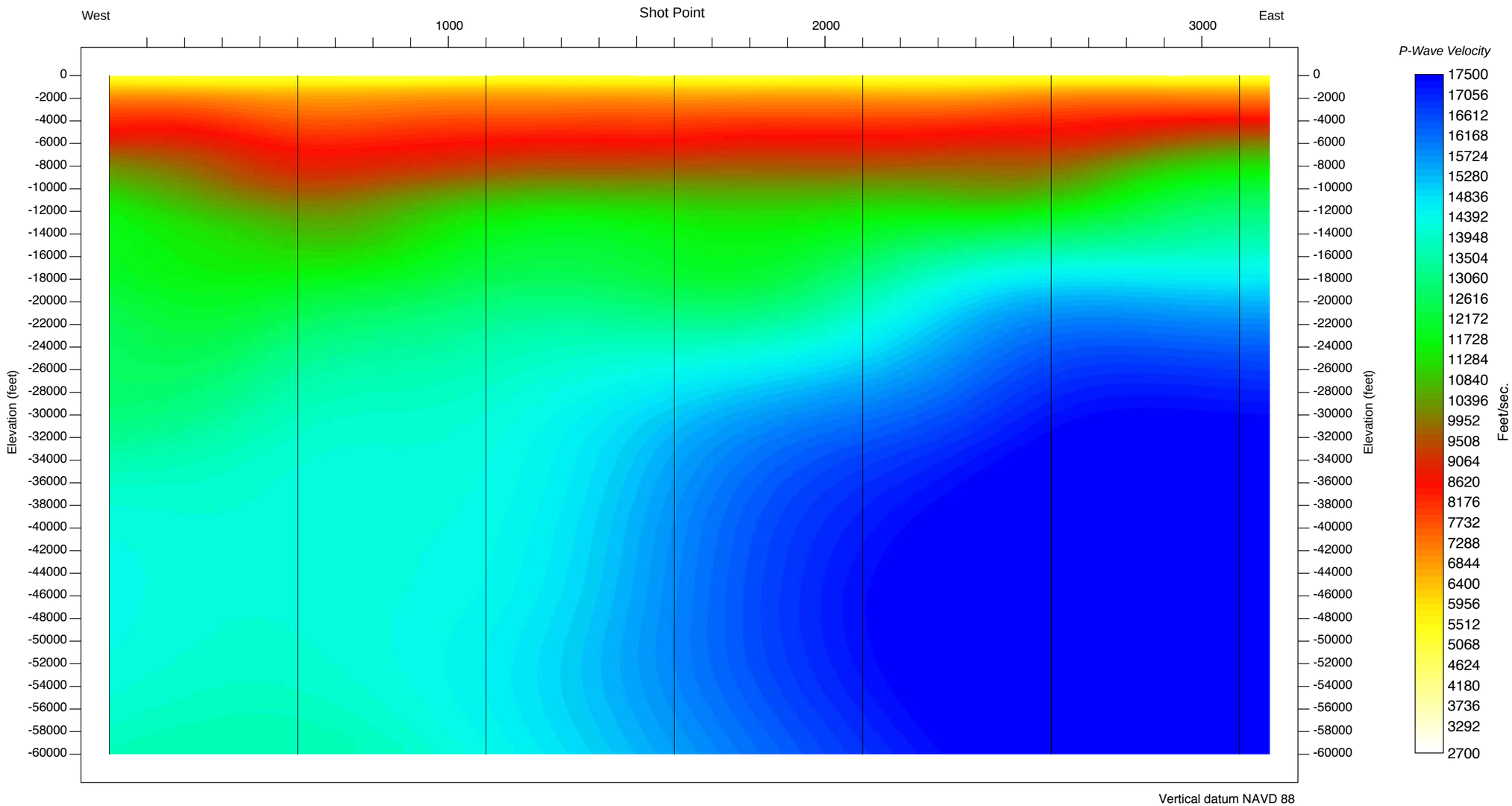
Arbitrary reflectors

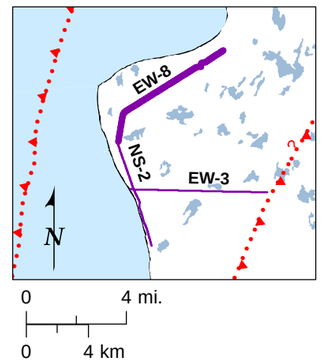
2015 SEISMIC REFLECTION PROFILE LINE NS-2, DEPTH MIGRATED - INTERPRETED

ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE C-8

fwla-wc-file1/project/Projects/10_0000/10_140334_AKLNG_PreFEED_Phase2/05_Graphics/10_140334 Interim Geophysics



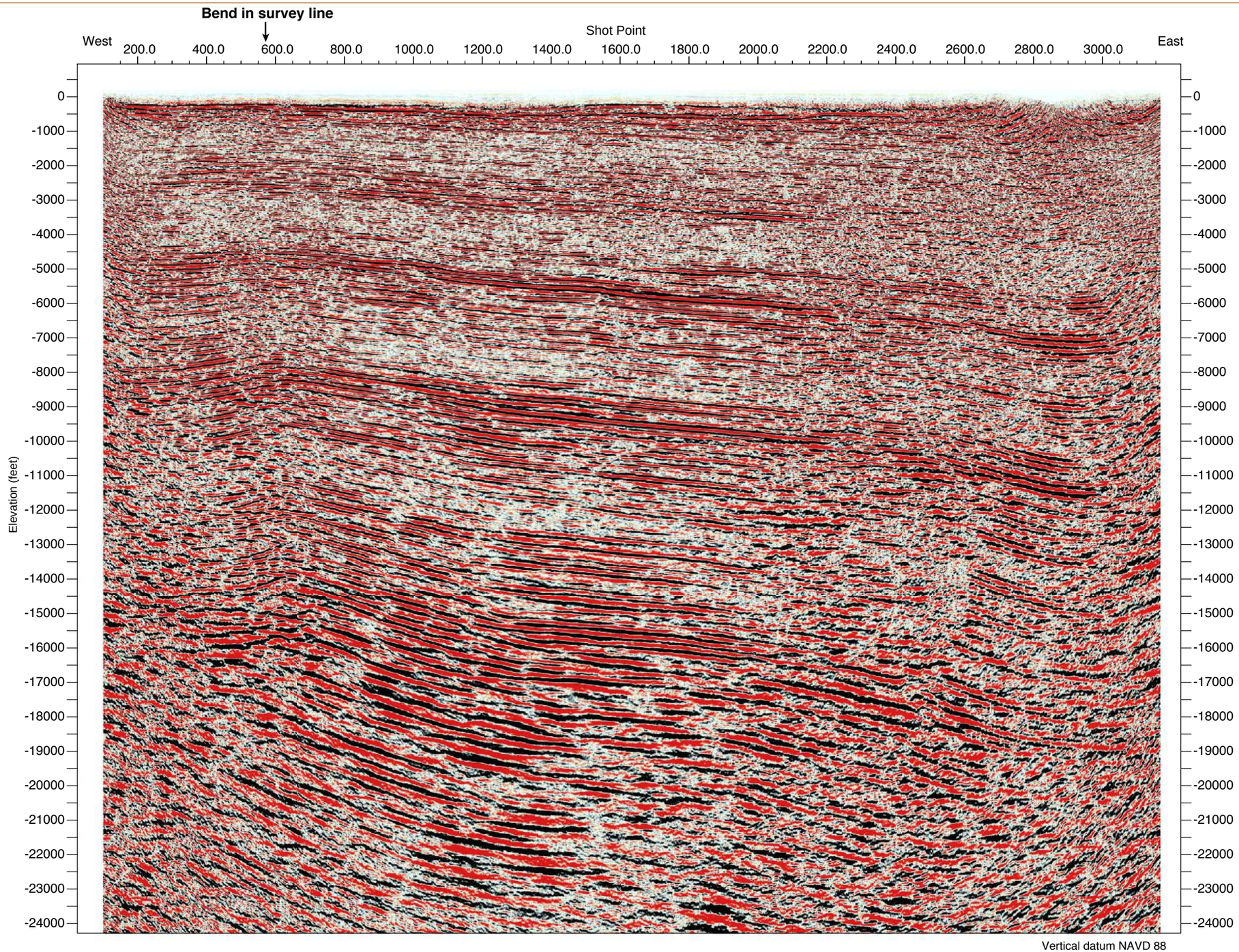


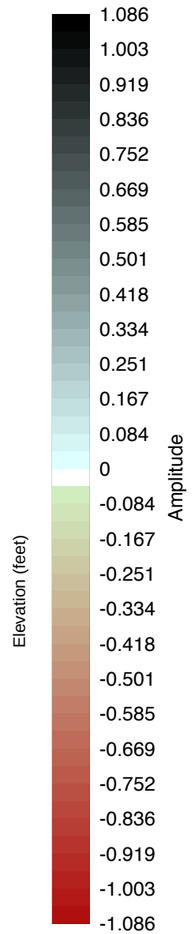
2015 PSDM TOMOGRAPHIC VELOCITY MODEL, SEISMIC REFLECTION LINE EW-8

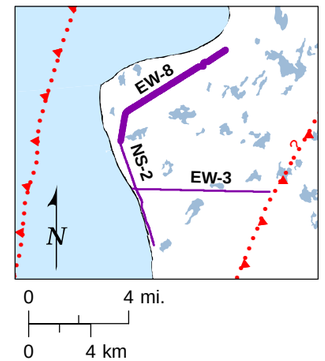
ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE C-9

fwa-wc-file1/project/Projects/10_0000/10_140334_AKLNG_PreFEED_Phase2/05_Graphics/10_140334 Interim Geophysics



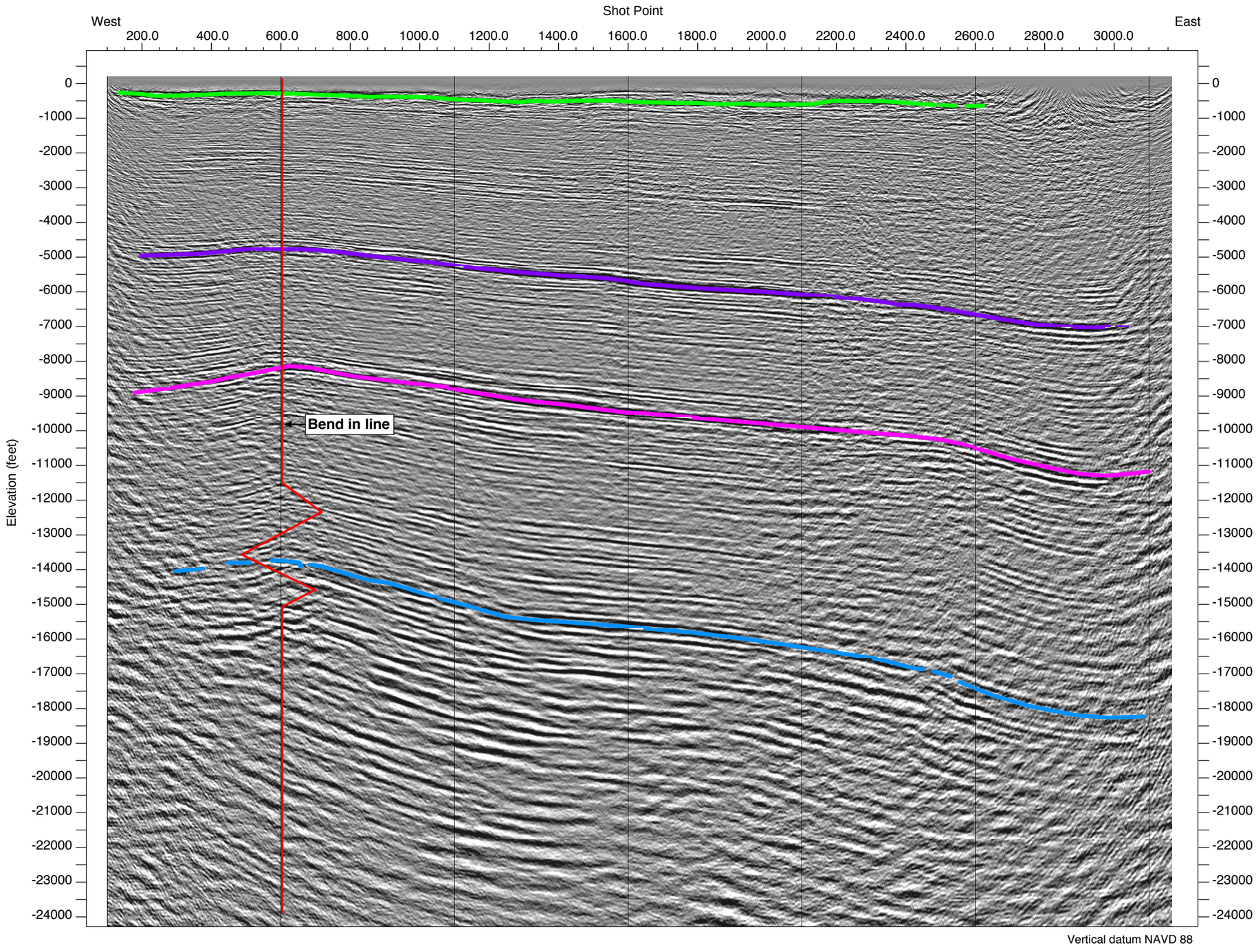


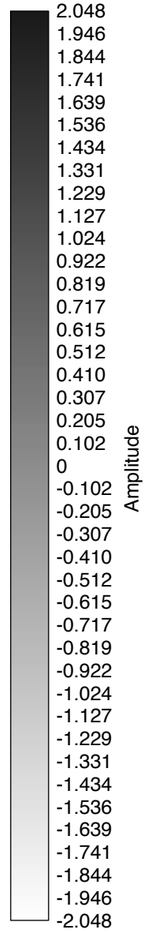


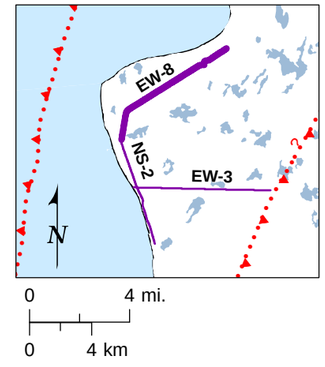
2015 SEISMIC REFLECTION PROFILE LINE EW-8, DEPTH MIGRATED - UNINTERPRETED
ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE C-10

fwla-wc-file1/project/Projects/10_0000/10_140334_AKLNG_PreFEED_Phase2/05_Graphics/10_140334 Interim Geophysics







Legend

Unconformity

Arbitrary reflectors

2015 SEISMIC REFLECTION PROFILE LINE EW-8, DEPTH MIGRATED - INTERPRETED

ONSHORE LNG FACILITIES
ALASKA LNG PROJECT
NIKISKI, ALASKA

PLATE C-11

twla-wc-file1/project/Projects/10_0000/10_140334_AKLNG_PreFEED_Phase2/05_Graphics/10_140334 Interim Geophysics