Site: HE-4A

Priority: 2 (alternate)
Position: 41°20.03'N, 170°22.74'E
Water Depth: 1300 m
Sediment Thickness: 42 m
Target Drilling Depth: >192 m
Approved Maximum Penetration: 342 mbsf
Seismic Coverage: *Glomar Challenger* Aug 8 2230 UTC; SP Lee 8-76 Oct 8 2230 UTC

Objectives: The objectives of Site HE-4A are to:

1. Obtain a paleolatitude and age of Nintoku Seamount to investigate processes responsible for Late Cretaceous-Early Tertiary differences between paleomagnetic data and predictions based on the Hawaiian-Emperor chain

2. Determine the geochemical signature of Nintoku Seamount

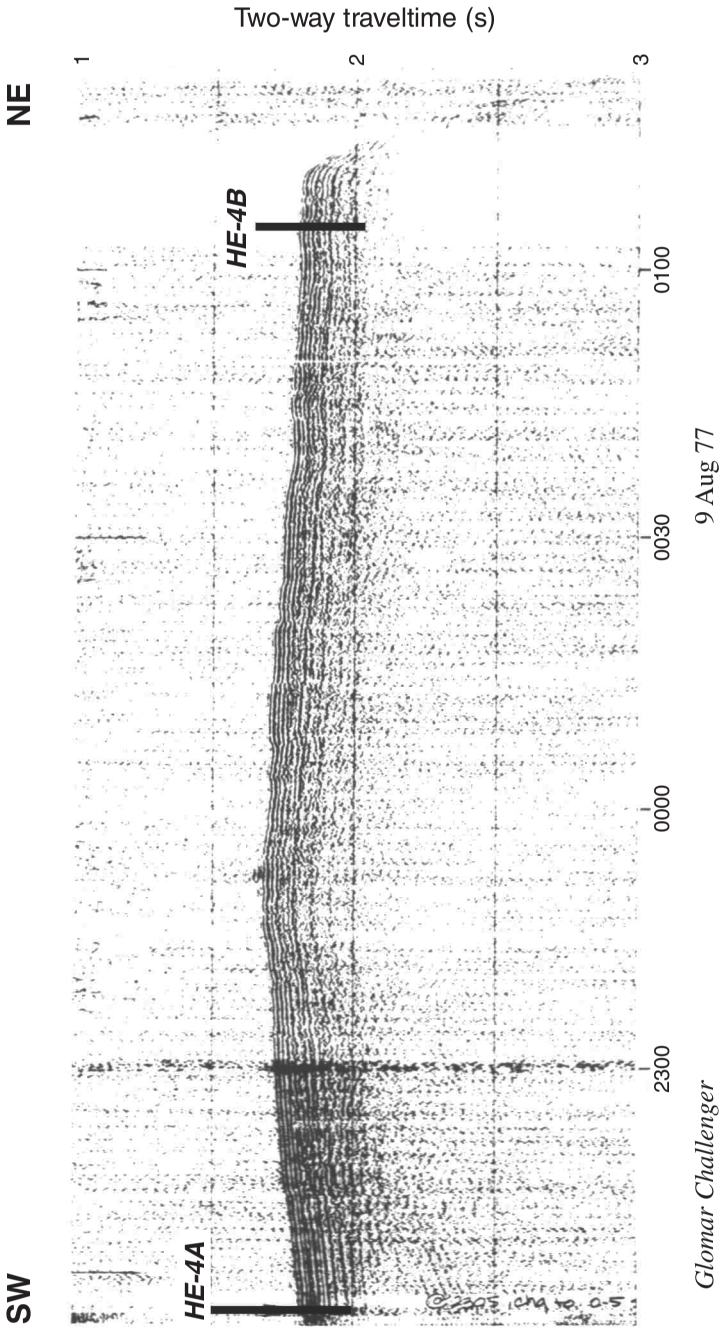
3. Determine the nature of the time-averaged geomagnetic field

4. Determine the paleointensity of the geomagnetic field

Drilling Program: RCB

Logging and Downhole: Triple combo, FMS, third-party magnetic tool

Nature of Rock Anticipated: Foramininiferal ooze, sand, calcareous ooze; volcanic sandstones, calcareous conglomerates; fossiliferous volcanic sandstone, and alkali and tholeiitic basalt


Two-way traveltime (s)
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Glomar Challenger

Site: HE-4B

Priority: 1 (primary)
Position: 41°29'N, 170°38'E
Water Depth: 1300 m
Sediment Thickness: 42 m
Target Drilling Depth: >192 m
Approved Maximum Penetration: 342 mbsf
Seismic Coverage: *Glomar Challenger* Aug 9 0110 UTC

Objectives: The objectives of Site HE-4B are to:

1. Obtain a paleolatitude and age of Nintoku Seamount to investigate processes responsible for Late Cretaceous-early Tertiary differences between paleomagnetic data and predictions based on the Hawaiian-Emperor chain

2. Determine the geochemical signature of Nintoku Seamount

3. Determine the nature of the time-averaged geomagnetic field

4. Determine the paleointensity of the geomagnetic field

Drilling Program: RCB

Logging and Downhole: Triple combo, FMS, third-party magnetic tool

Nature of Rock Anticipated: Foramininiferal ooze, sand, calcareous ooze; volcanic sandstones, calcareous conglomerates; fossiliferous volcanic sandstone, and alkali and tholeiitic basalt

See seismic line for Site HE-4A

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Site: HE-5A

Priority: 2 (alternate)
Position: 37°59.29'N, 170°35.86'E
Water Depth: 1480 m
Sediment Thickness: 60 m
Target Drilling Depth: >210 m
Approved Maximum Penetration: 360 mbsf
Seismic Coverage: *SP Lee* 8-76 Oct 9 0800 UTC

Objectives: The objectives of Site HE-5A are to:

1. Obtain a paleolatitude and age of Ojin Seamount to investigate processes responsible for Late Cretaceous-early Tertiary differences between paleomagnetic data and predictions based on the Hawaiian-Emperor chain

2. Determine the geochemical signature of Ojin Seamount

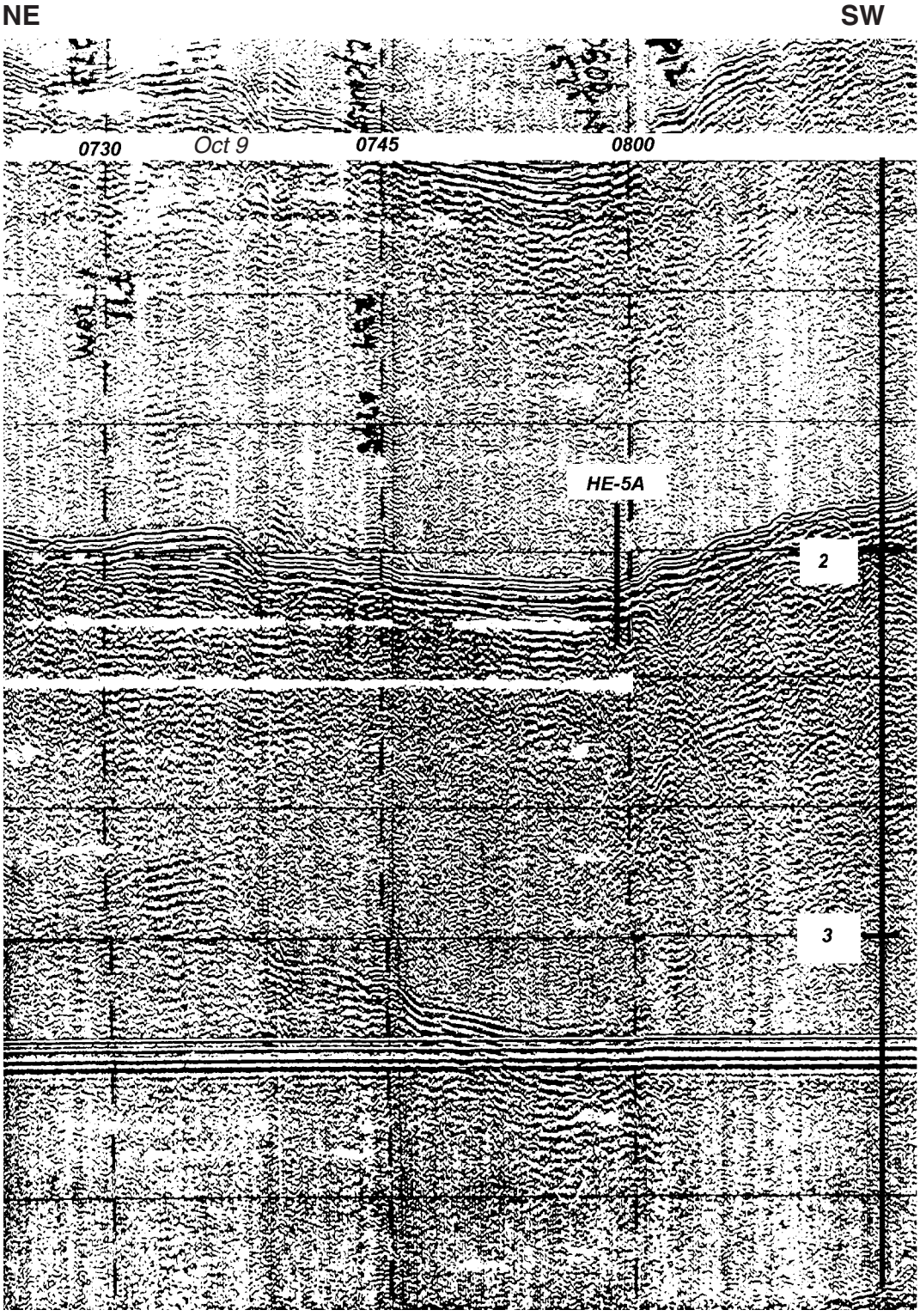
3. Determine the nature of the time-averaged geomagnetic field

4. Determine the paleointensity of the geomagnetic field

Drilling Program: RCB

Logging and Downhole: Triple combo, FMS, third-party magnetic tool

Nature of Rock Anticipated: Calcareous ooze, sand, volcanic ash, and massive hawaiite and tholeiitic basalt



SP Lee 8-76

Site: HE-5B

Priority: 2 (alternate)
Position: 37°13'N, 171°1'E
Water Depth: 1480 m
Sediment Thickness: 60 m
Target Drilling Depth: >210 m
Approved Maximum Penetration: 360 mbsf
Seismic Coverage: *SP Lee* 8-76 Oct 9 0500 UTC

Objectives: The objectives of Site HE-5B are to:

1. Obtain a paleolatitude and age of Ojin Seamount to investigate processes responsible for Late Cretaceous-early Tertiary differences between paleomagnetic data and predictions based on the Hawaiian-Emperor chain

2. Determine the geochemical signature of Ojin Seamount

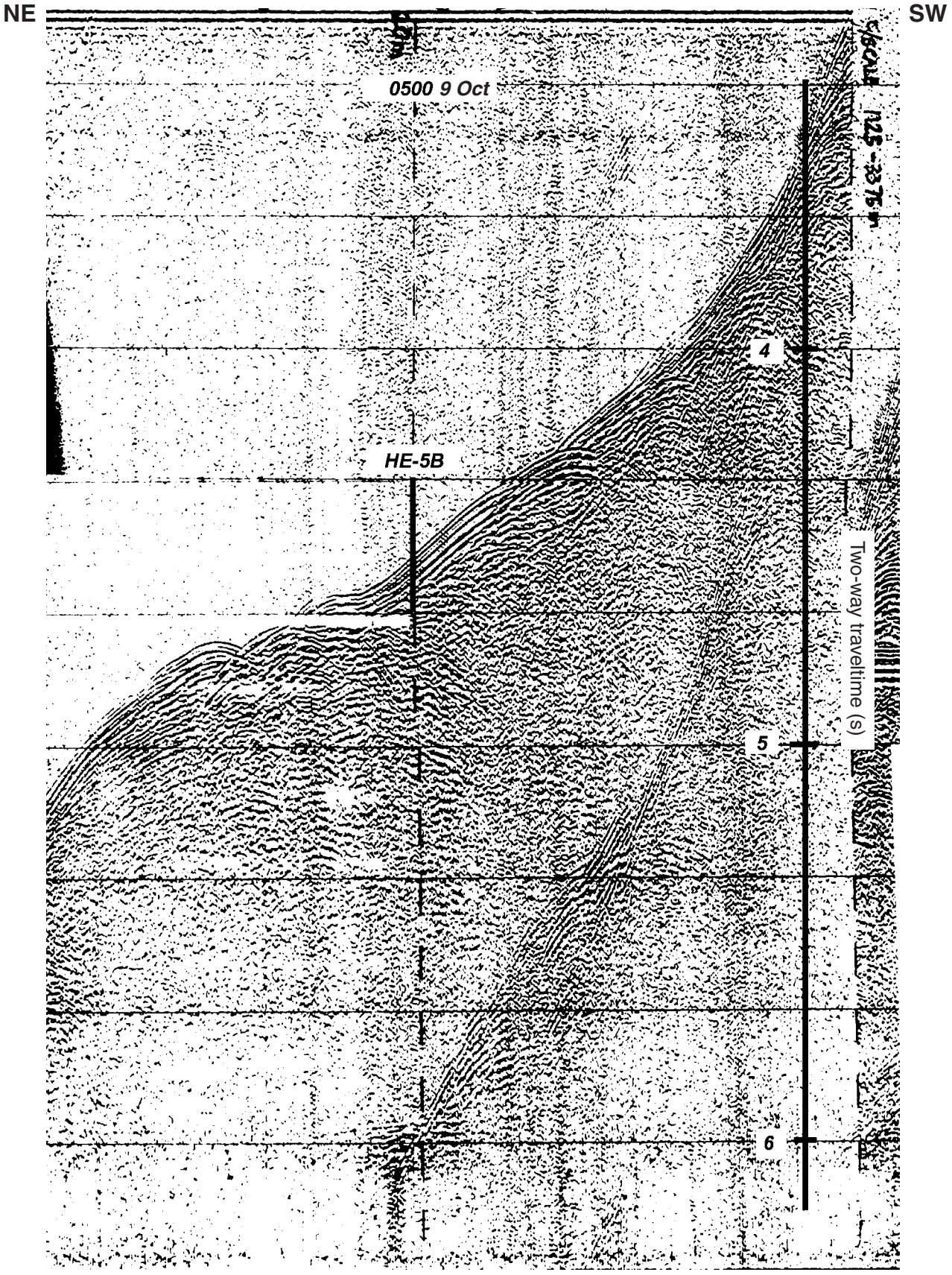
3. Determine the nature of the time-averaged geomagnetic field

4. Determine the paleointensity of the geomagnetic field

Drilling Program: RCB

Logging and Downhole: Triple combo, FMS, third-party magnetic tool

Nature of Rock Anticipated: Calcareous ooze, sand, volcanic ash, and massive hawaiite and tholeiitic basalt



SP Lee 8-76

Site: HE-5C

Priority: 1 (primary)
Position: 38°9.5'N, 170°50'E
Water Depth: 1480 m
Sediment Thickness: 36 m
Target Drilling Depth: >186 m
Approved Maximum Penetration: 336 mbsf
Seismic Coverage: *SP Lee* 8-76 Oct 9 0610 UTC

Objectives: The objectives of Site HE-5C are to:

1. Obtain a paleolatitude and age of Ojin Seamount to investigate processes responsible for Late Cretaceous-early Tertiary differences between paleomagnetic data and predictions based on the Hawaiian-Emperor chain

2. Determine the geochemical signature of Ojin Seamount

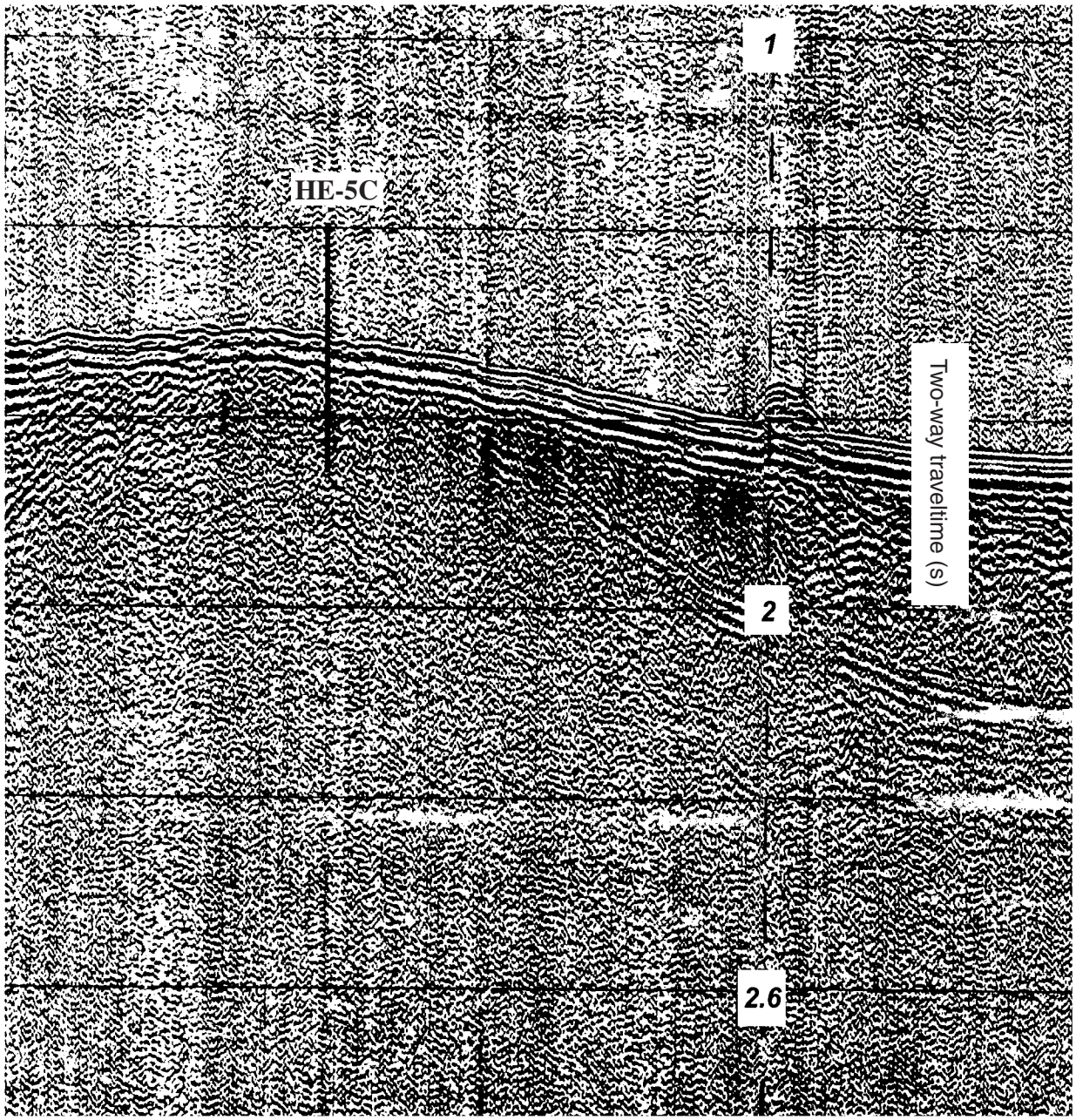
3. Determine the nature of the time-averaged geomagnetic field

4. Determine the paleointensity of the geomagnetic field

Drilling Program: RCB

Logging and Downhole: Triple combo, FMS, third-party magnetic tool

Nature of Rock Anticipated: Calcareous ooze, sand, volcanic ash, and massive hawaiite and tholeiitic basalt



SP Lee 8-76

Site: HE-5D

Priority: 2 (alternate)
Position: 38°7'N, 170°45'E
Water Depth: 1480 m
Sediment Thickness: 48 m
Target Drilling Depth: >198 m
Approved Maximum Penetration: 348 mbsf
Seismic Coverage: SP Lee 8-76 Oct 9 0645 UTC

Objectives: The objectives of Site HE-5D are to:

1. Obtain a paleolatitude and age of Ojin Seamount to investigate processes responsible for Late Cretaceous-early Tertiary differences between paleomagnetic data and predictions based on the Hawaiian-Emperor chain

2. Determine the geochemical signature of Ojin Seamount

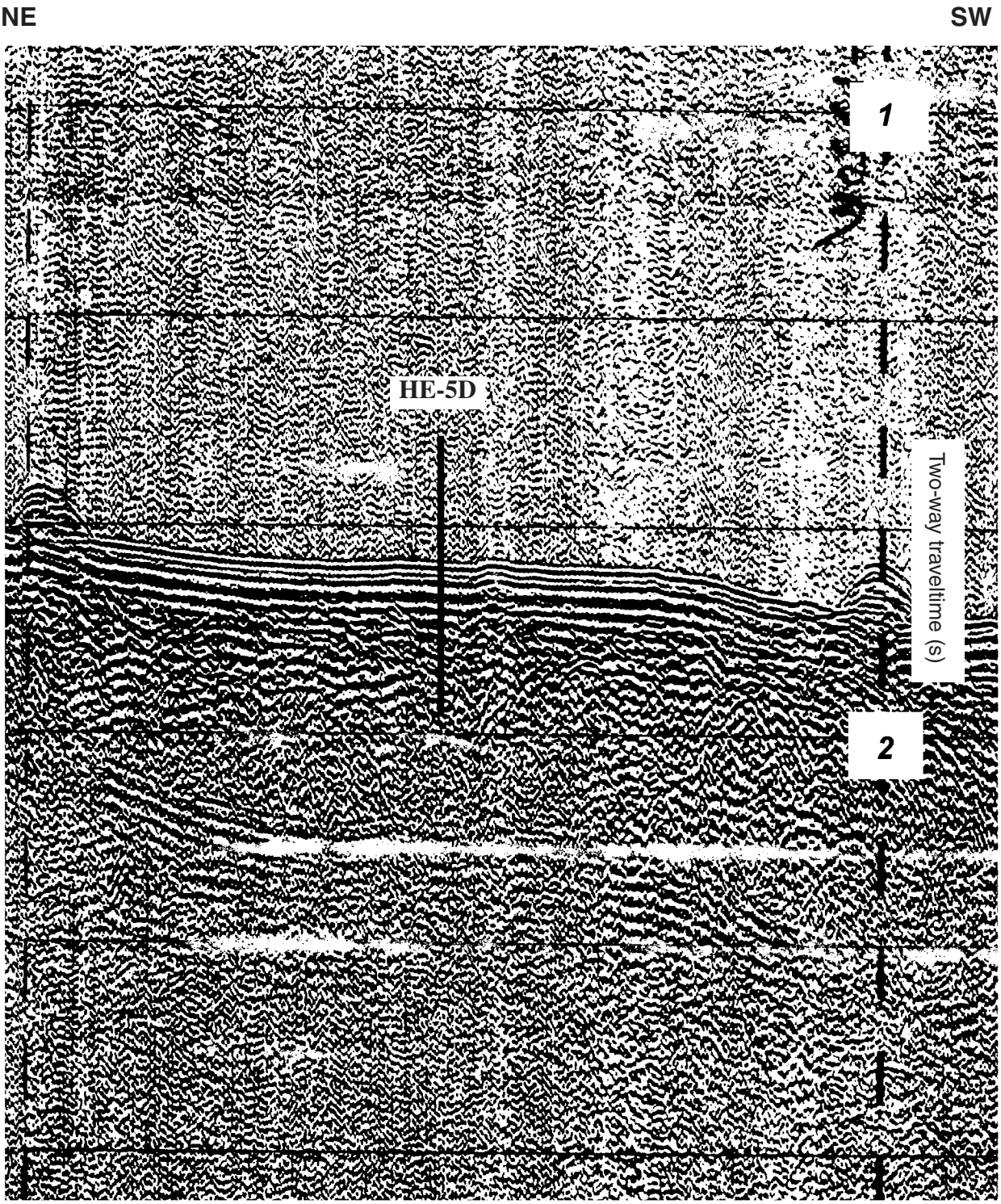
3. Determine the nature of the time-averaged geomagnetic field

4. Determine the paleointensity of the geomagnetic field

Drilling Program: RCB

Logging and Downhole: Triple combo, FMS, third-party magnetic tool

Nature of Rock Anticipated: Calcareous ooze, sand, volcanic ash, and massive hawaiite and tholeiitic basalt



SP Lee 8-76

Site: HE-6A

Priority: 1 (primary)
Position: 34°58.94'N, 172°8.98'E
Water Depth: 1331 m
Sediment Thickness: 80 m
Target Drilling Depth: >230 m
Approved Maximum Penetration: 380 mbsf
Seismic Coverage: *Glomar Challenger* Leg 32 Sept 16, '73 0515 UTC

Objectives: The objectives of Site HE-6A are to:

1. Obtain a paleolatitude and age of Koko Seamount to investigate processes responsible for Late Cretaceous-early Tertiary differences between paleomagnetic data and predictions based on the Hawaiian-Emperor chain

2. Determine the geochemical signature of Koko Seamount

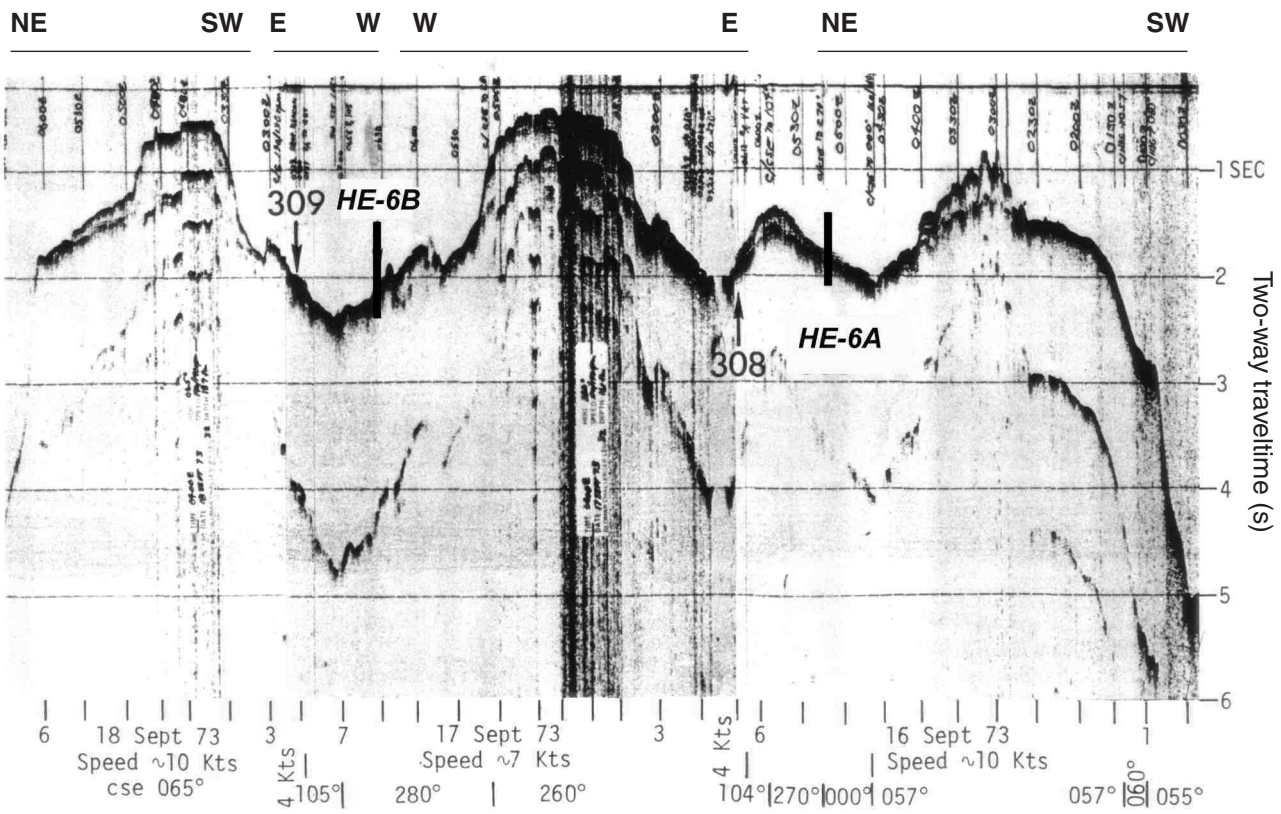
3. Determine the nature of the time-averaged geomagnetic field

4. Determine the paleointensity of the geomagnetic field

Drilling Program: RCB

Logging and Downhole: Triple combo, FMS, third-party magnetic tool

Nature of Rock Anticipated: Altered volcanic silt to biogenic volcanic sandstone, and alkali and tholeiitic basalt



Glomar Challenger Leg 32

Site: HE-6B

Priority: 2 (alternate)
Position: 34°54.32'N, 171°33.67'E
Water Depth: 1454 m
Sediment Thickness: 80 m
Target Drilling Depth: >230 m
Approved Maximum Penetration: 380 mbsf
Seismic Coverage: *Glomar Challenger* Leg 32 Sept 17, '73 0630 UTC

Objectives: The objectives of Site HE-6B are to:

1. Obtain a paleolatitude and age of Koko Seamount to investigate processes responsible for Late Cretaceous-Early Tertiary differences between paleomagnetic data and predictions based on the Hawaiian-Emperor chain

2. Determine the geochemical signature of Koko Seamount

3. Determine the nature of the time-averaged geomagnetic field

4. Determine the paleointensity of the geomagnetic field

Drilling Program: RCB

Logging and Downhole: Triple combo, FMS, third-party magnetic tool

Nature of Rock Anticipated: Altered volcanic silt to biogenic volcanic sand, and alkali and tholeiitic basalt

See seismic line for Site HE-6A

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