

| | | |
|--------------------------------|--|---------------------------------------|
| Well Name: HARDIE F | Well Location: T29N / R12W / SEC 14 / NWSE / 36.723953 / -108.064499 | County or Parish/State: SAN JUAN / NM |
| Well Number: 1E | Type of Well: CONVENTIONAL GAS WELL | Allottee or Tribe Name: |
| Lease Number: NMSF077710 | Unit or CA Name: | Unit or CA Number: |
| US Well Number: 300452661500S1 | Well Status: Abandoned | Operator: MORNINGSTAR PARTNERS LP |

Subsequent Report

Sundry ID: 2680939

Type of Submission: Subsequent Report

Date Sundry Submitted: 07/08/2022

Date Operation Actually Began: 06/22/2022

Type of Action: Plug and Abandonment

Time Sundry Submitted: 10:20

Actual Procedure: MorningStar has plugged and abandoned the Hardie F 1E as of 6/30/2022. Attached are the Final WBD, Daily and Cementing Reports, and CBL.

SR Attachments

Actual Procedure

- 2022_06_23_CBL_HARDIE_F_1E_20220708101901.pdf
- Hardie_F_1E_PA_Daily_Cementing_Reports_20220708101850.pdf
- Hardie_F_1E__WBD_PA_Final_20220708101839.pdf

Received by OCD: 7/13/2022 12:26:44 PM

Page 2 of 43

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|--------------------------------|--|---------------------------------------|
| Well Name: HARDIE F | Well Location: T29N / R12W / SEC 14 / NWSE / 36.723953 / -108.064499 | County or Parish/State: SAN JUAN / NM |
| Well Number: 1E | Type of Well: CONVENTIONAL GAS WELL | Allottee or Tribe Name: |
| Lease Number: NMSF077710 | Unit or CA Name: | Unit or CA Number: |
| US Well Number: 300452661500S1 | Well Status: Abandoned | Operator: MORNINGSTAR PARTNERS LP |

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

| | |
|--|----------------------------------|
| Operator Electronic Signature: CONNIE BLAYLOCK | Signed on: JUL 08, 2022 10:19 AM |
| Name: MORNINGSTAR PARTNERS LP | |
| Title: Regulatory Technician | |
| Street Address: 400 W 7th St. | |
| City: Forth Worth | State: TX |
| Phone: (817) 334-7882 | |
| Email address: CBLAYLOCK@MSPARTNERS.COM | |

Field

| | | |
|--------------------------------------|--------|------|
| Representative Name: Amy Byars | | |
| Street Address: | | |
| City: | State: | Zip: |
| Phone: | | |
| Email address: abyars@mspartners.com | | |

BLM Point of Contact

| | |
|---------------------------------|---|
| BLM POC Name: KENNETH G RENNICK | BLM POC Title: Petroleum Engineer |
| BLM POC Phone: 5055647742 | BLM POC Email Address: krennick@blm.gov |
| Disposition: Accepted | Disposition Date: 07/12/2022 |
| Signature: Kenneth Rennick | |

**MorningStar
Operating, LLC**

P&A WBD Final

**Hardie F 1E
San Juan County, NM**

Prepared by: J. Marschall
Updated by: JRyza
Date: 7/08/2022

KB = 13'
GL = 5,661'
API# 30-045-26615

Spud Date: 02/02/1986
Date Completed: 03/07/1986

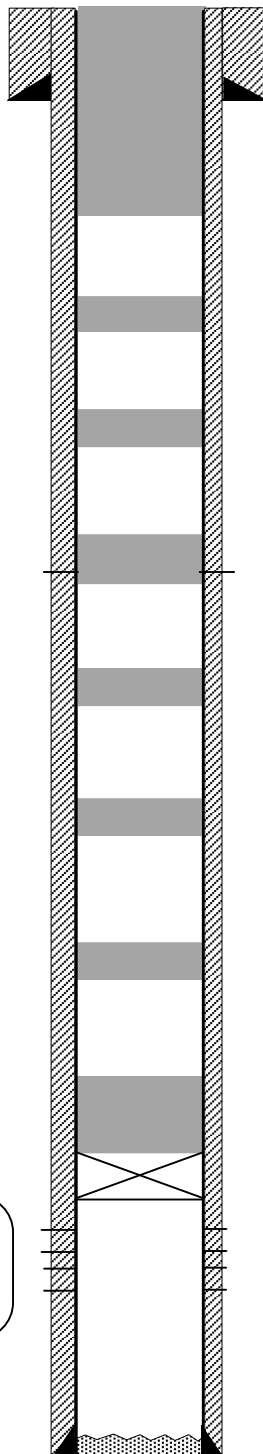
All depths include KB
TD – 6,421'; PBTD – 6,404'
12 1/4" Surface hole
Surface Csg: 5 jts 8 5/8" 24# K55
Setting Depth: 214'

Cement
140 sx Cement
Cmt circ to surface

7 7/8" Production Hole
Production Csg: 158 jts 4-1/2" 10.5# J55
Setting Depth: 6,421'

Cement: 3 stage, tools @ 4,501' & 2,039':
Stage 1: 288 sx
Stage 2: 509 sx
Stage 3: 760 sx, cmt circ to surface

Dakota Perfs (1986):
6,179' - 6,286'



PLUG 8&9 (Sfc, Ojo, Kirtland)
62 sx cement Surface – 607'

PLUG 7 (Fruitland)
17 sx cement 992' – 1,252'

PLUG 6 (Pictured Cliffs)
17 sx cement 1,542' – 1,802'

PLUG 5 (Charca)
17 sx cement 2,285' – 2,483'
Sqz perf @ 2430'

PLUG 4 (Mesa Verde)
17 sx cement 3,005' – 3,321'

PLUG 3 (Mancos)
17 sx cement 3,998' – 4,211'

PLUG 2 (Gallop)
17 sx cement 5,108' – 5,402'

PLUG 1
17 sx cement 5,959' – 6,134'

CICR set @ 6,134'

Nacimiento – surface
Ojo Alamo – 365'
Kirtland – 532'
Fruitland – 1,188'
Picture Cliffs – 1,728'
Chacra – 2,380'
Mesa Verde – 3,268'
Mancos – 4,160'
Gallup – 5,336'
Dakota – 6,178'

PBTD: 6,404'

Drake

WELL SERVICE INC.



PO Box 538 Farmington, NM 87499 505.327.7301

P & A Daily Report

Company: Morningstar Operating

Well Name: Hardie F #1E

API #: 30-045-26615

Date: 6/22/2022

WORK SUMMARY

MOL and R/U P&A rig. Checked well pressures(see pressures below). Bled down well. N/D wellhead, N/U BOP and function tested. TOOH with 98 stands of 2-3/8" production tubing. Secured and shut-in well for the day. Mike Gilbreath was BLM inspector on location.

PLUG SUMMARY

| <u>Plug No</u> | <u>Plug Depth</u> | <u>Sacks of Cement Used</u> |
|----------------|-------------------|-----------------------------|
| Plug 1 | To | |
| Plug 2 | To | |
| Plug 3 | To | |
| Plug 4 | To | |
| Plug 5 | To | |
| Plug 6 | To | |
| Plug 7 | To | |

BRIDGE PLUG/CEMENT RETAINER SUMMARYDepth Set

WELL PRESSURES

Tubing 0 psi

Casing 1000 psi

Bradenhead 0 psi

P & A Daily Report

Drake

WELL SERVICE INC.



PO Box 538 Farmington, NM 87499 505.327.7301

Company: Morningstar Operating

Well Name: Hardie F #1E

API #: 30-045-26615

Date: 6/23/2022

WORK SUMMARY

Checked well pressures(see pressures below). Bled down well. P/U 4 ½" casing scraper and round tripped above top perforation to a depth of 6,179'. P/U 4 ½" CR, TIH and set at 6,134'. Pressure tested tubing to 1000 psi in which it successfully held pressure. Stung out of CR. Circulated wellbore with 85 bbls of fresh water. Attempted to pressure test production casing but it failed to hold pressure. TOOH and L/D stinger nose. R/U wireline services. Ran CBL from 6,100' to surface. CBL results were sent to BLM and NMOCD offices for review. Secured and shut-in well for the day.

PLUG SUMMARY

| <u>Plug No</u> | <u>Plug Depth</u> | <u>Sacks of Cement Used</u> |
|----------------|-------------------|-----------------------------|
| Plug 1 | To | |
| Plug 2 | To | |
| Plug 3 | To | |
| Plug 4 | To | |
| Plug 5 | To | |
| Plug 6 | To | |
| Plug 7 | To | |

BRIDGE PLUG/CEMENT RETAINER SUMMARYDepth Set

6,134'

WELL PRESSURES

Tubing 0 psi

Casing 60 psi

Bradenhead 0 psi

P & A Daily Report



PO Box 538 Farmington, NM 87499 505.327.7301

| | |
|------------|-----------------------|
| Company: | Morningstar Operating |
| Well Name: | Hardie F #1E |
| API #: | 30-045-26615 |
| Date: | 6/24/2022 |

WORK SUMMARY

Checked well pressures(see pressures below). Bled down well. TIH with cementing sub to 6,134'. R/U cementing services. Pumped plug #1 from 6,134'-5,874' to cover the Dakota perforations and formation top. WOC 4 hours. TIH and tagged plug #1 top at 5,959'. PUH to next plug depth at 5,402'. R/U cementing services. Pumped plug #2 from 5,402'-5,142' to cover the Gallup formation top. PUH 48 stands. WOC over the weekend. Secured and shut-in well for the day.

PLUG SUMMARY

| Plug No | Plug Depth | Sacks of Cement Used |
|-------------------------|----------------|----------------------|
| Plug 1 6,134' To 5,959' | 17 sx Type III | |
| Plug 2 5,402' To 5,142' | 17 sx Type III | |
| Plug 3 To | | |
| Plug 4 To | | |
| Plug 5 To | | |
| Plug 6 To | | |
| Plug 7 To | | |

BRIDGE PLUG/CEMENT RETAINER SUMMARY

| |
|-----------|
| Depth Set |
| 6,134' |
| |
| |

WELL PRESSURES

| | |
|------------|--------|
| Tubing | 0 psi |
| Casing | 60 psi |
| Bradenhead | 0 psi |

P & A Daily Report

Drake

WELL SERVICE INC.



PO Box 538 Farmington, NM 87499 505.327.7301

Company: Morningstar Operating

Well Name: Hardie F #1E

API #: 30-045-26615

Date: 6/27/2022

WORK SUMMARY

Checked well pressures(see pressures below). Bled down well. Attempted to get cementing equipment on location but could not do so based on mud caused by rain the night before. Waited until noon to see if roads would dry out enough to get on location. Roads were still too muddy to get on location. Cementing services will resume 6-28-22. TIH and tagged plug #2 top at 5,108'. L/D tubing up to next plug depth at 4,211'. Secured and shut-in well for the day.

PLUG SUMMARY

| Plug No | Plug Depth | Sacks of Cement Used |
|---------------|------------|----------------------|
| Plug 1 6,134' | To 5,959' | 17 sx Type III |
| Plug 2 5,402' | To 5,108' | 17 sx Type III |
| Plug 3 | To | |
| Plug 4 | To | |
| Plug 5 | To | |
| Plug 6 | To | |
| Plug 7 | To | |

BRIDGE PLUG/CEMENT RETAINER SUMMARYDepth Set

6,134'

WELL PRESSURES

| | |
|------------|---------|
| Tubing | 160 psi |
| Casing | 160 psi |
| Bradenhead | 2 psi |

Drake

WELL SERVICE INC.



PO Box 538 Farmington, NM 87499 505.327.7301

P & A Daily Report

Company: Morningstar Operating

Well Name: Hardie F #1E

API #: 30-045-26615

Date: 6/28/2022

WORK SUMMARY

Checked well pressures(see pressures below). Bled down well. R/U cementing services. Pumped plug #3 from 4,211'-3,951' to cover the Mancos formation top. PUH. WOC 4 hours. TIH and tagged plug #3 top at 3,998'. Attempted to pressure test production casing but it failed to hold pressure. PUH to next plug depth at 3,321'. R/U cementing services. Pumped plug #4 from 3,321'-3,061' to cover the Mesa Verde formation top. TOOH. WOC overnight. Secured and shut-in well for the day.

PLUG SUMMARY

| <u>Plug No</u> | <u>Plug Depth</u> | <u>Sacks of Cement Used</u> |
|----------------|-------------------|-----------------------------|
| Plug 1 6,134' | To 5,959' | 17 sx Type III |
| Plug 2 5,402' | To 5,108' | 17 sx Type III |
| Plug 3 4,211' | To 3,998' | 17 sx Type III |
| Plug 4 3,321' | To 3,061' | 17 sx Type III |
| Plug 5 | To | |
| Plug 6 | To | |
| Plug 7 | To | |

BRIDGE PLUG/CEMENT RETAINER SUMMARYDepth Set

6,134'

WELL PRESSURES

Tubing 0 psi

Casing 160 psi

Bradenhead 2 psi

P & A Daily Report

Drake

WELL SERVICE INC.



PO Box 538 Farmington, NM 87499 505.327.7301

Company: Morningstar Operating

Well Name: Hardie F #1E

API #: 30-045-26615

Date: 6/29/2022

WORK SUMMARY

Checked well pressures(see pressures below). Bled down well. TIH and tagged plug #4 top at 3,005'. Attempted to pressure test 4 1/2" production casing but it failed to hold pressure. L/D tubing up to next plug depth. TOOH. R/U wireline services. RIH and perforated squeeze holes at 2,430'. P/U packer, TIH and set at 2,386'. Attempted to establish injection rate through packer at 2,386' and into perforations at 2,430' but wellbore pressured up to 740 psi and held pressure. Released packer and TOOH. NMOCD approved spotting a balanced plug across Chacra formation top and perforations at 2,430'. TIH to 2,483'. R/U cementing services. Pumped plug #5 from 2,483'-2,223' to cover the Chacra formation top and perforations at 2,430'. TOOH. WOC overnight. Secured and shut-in well for the day.

PLUG SUMMARY

| <u>Plug No</u> | <u>Plug Depth</u> | <u>Sacks of Cement Used</u> |
|----------------|-------------------|-----------------------------|
| Plug 1 6,134' | To 5,959' | 17 sx Type III |
| Plug 2 5,402' | To 5,108' | 17 sx Type III |
| Plug 3 4,211' | To 3,998' | 17 sx Type III |
| Plug 4 3,321' | To 3,005' | 17 sx Type III |
| Plug 5 2,483' | To 2,223' | 17 sx Type III |
| Plug 6 | To | |
| Plug 7 | To | |

BRIDGE PLUG/CEMENT RETAINER SUMMARY

| <u>Depth Set</u> |
|------------------|
| 6,134' |
| |
| |

WELL PRESSURES

| | |
|------------|-------|
| Tubing | 0 psi |
| Casing | 0 psi |
| Bradenhead | 2 psi |

P & A Daily Report

Drake

WELL SERVICE INC.



PO Box 538 Farmington, NM 87499 505.327.7301

Company: Morningstar Operating

Well Name: Hardie F #1E

API #: 30-045-26615

Date: 6/30/2022

WORK SUMMARY

Checked well pressures(see pressures below). Bled down well. TIH and tagged plug #5 top 2,285'. Pressure tested 4 1/2" production casing to 600 psi in which it successfully held pressure. PUH to 1,802'. R/U cementing services. Pumped plug #6 from 1,802'-1,542' to cover the Pictured Cliffs formation top. PUH to 1,252'. R/U cementing services. Pumped plug #7 from 1,252'-992' to cover the Fruitland formation top. PUH to 607'. R/U cementing services. Pumped surface plug from 607'-315' to cover the Kirtland formation top. PUH to 315'. R/U cementing services. Pumped surface plug from 315'-surface to cover the Ojo Alamo and Nacimianeto formation tops and surface casing shoe. N/D BOP and cut-off wellhead. Ran weighted tally tape down both strings of casing and tagged cement 12' down in 8-5/8" surface casing annulus and 38' down in 4 1/2" production casing. Installed P&A marker per NMOCD regulations. Photographed the P&A marker in place and recorded its location via GPS coordinates. R/D and MOL.

PLUG SUMMARY

| <u>Plug No</u> | <u>Plug Depth</u> | <u>Sacks of Cement Used</u> |
|----------------|-------------------|-----------------------------------|
| Plug 1 6,134' | To 5,959' | 17 sx Type III |
| Plug 2 5,402' | To 5,108' | 17 sx Type III |
| Plug 3 4,211' | To 3,998' | 17 sx Type III |
| Plug 4 3,321' | To 3,005' | 17 sx Type III |
| Plug 5 2,483' | To 2,285' | 17 sx Type III |
| Plug 6 1,802' | To 1,542' | 17 sx Type III |
| Plug 7 1,252' | To 992' | 17 sx Type III |
| Plug 8 607' | To Surface | 62 sx Type III(21 sx for top-off) |

BRIDGE PLUG/CEMENT RETAINER SUMMARY

| |
|------------------|
| <u>Depth Set</u> |
| 6,134' |
| |
| |

WELL PRESSURES

| | |
|------------|-------|
| Tubing | 0 psi |
| Casing | 0 psi |
| Bradenhead | 2 psi |



ACOUSTIC CEMENT BOND LOG

| | | | | | |
|---|---------------|--------|------|--------|---------------|
| Company MORNINGSTAR OPERATING | | | | | |
| Well HARDIE F #1E | | | | | |
| Field BASIN DAKOTA | | | | | |
| County SAN JUAN | | | | | |
| State NM | | | | | |
| Location: API #: 30-045-26615 | | | | | |
| 1780' FSL & 1590 FEL | | | | | |
| SEC 14 TWP 29N RGE 12W | | | | | |
| Permanent Datum GROUND LEVEL Elevation 5661 | | | | | |
| Log Measured From RKB 13' ABOVE PERM DATUM | | | | | |
| Drilling Measured From RKB | | | | | |
| Date | Run Number | ONE | | | |
| Depth Driller | 6139 RETAINER | | | | |
| Depth Logger | N/A | | | | |
| Bottom Logged Interval | 6100' | | | | |
| Top Log Interval | SURF | | | | |
| Open Hole Size | 7.785 | | | | |
| Type Fluid | WATER | | | | |
| Density / Viscosity | N/A | | | | |
| Max. Recorded Temp. | N/A | | | | |
| Estimated Cement Top | SEE LOG | | | | |
| Time Well Ready | 16:15 | | | | |
| Time Logger on Bottom | 17:00 | | | | |
| Equipment Number | 550 | | | | |
| Location | FARMINGTON NM | | | | |
| Recorded By | S. TILLEN | | | | |
| Witnessed By | S. SALAZAR | | | | |
| Borehole Record | | | | | |
| From Number | Bit | From | To | Size | Tubing Record |
| | | | | Weight | From To |
| | | | | | |
| | | | | | |
| Casing Record | Size | Wgt/Ft | Top | Bottom | |
| Surface String | 8.625 | | SURF | 214 | |
| Pipe String | | | | | |
| Production String | 4.5 | | SURF | TD | |
| Liner | | | | | |

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

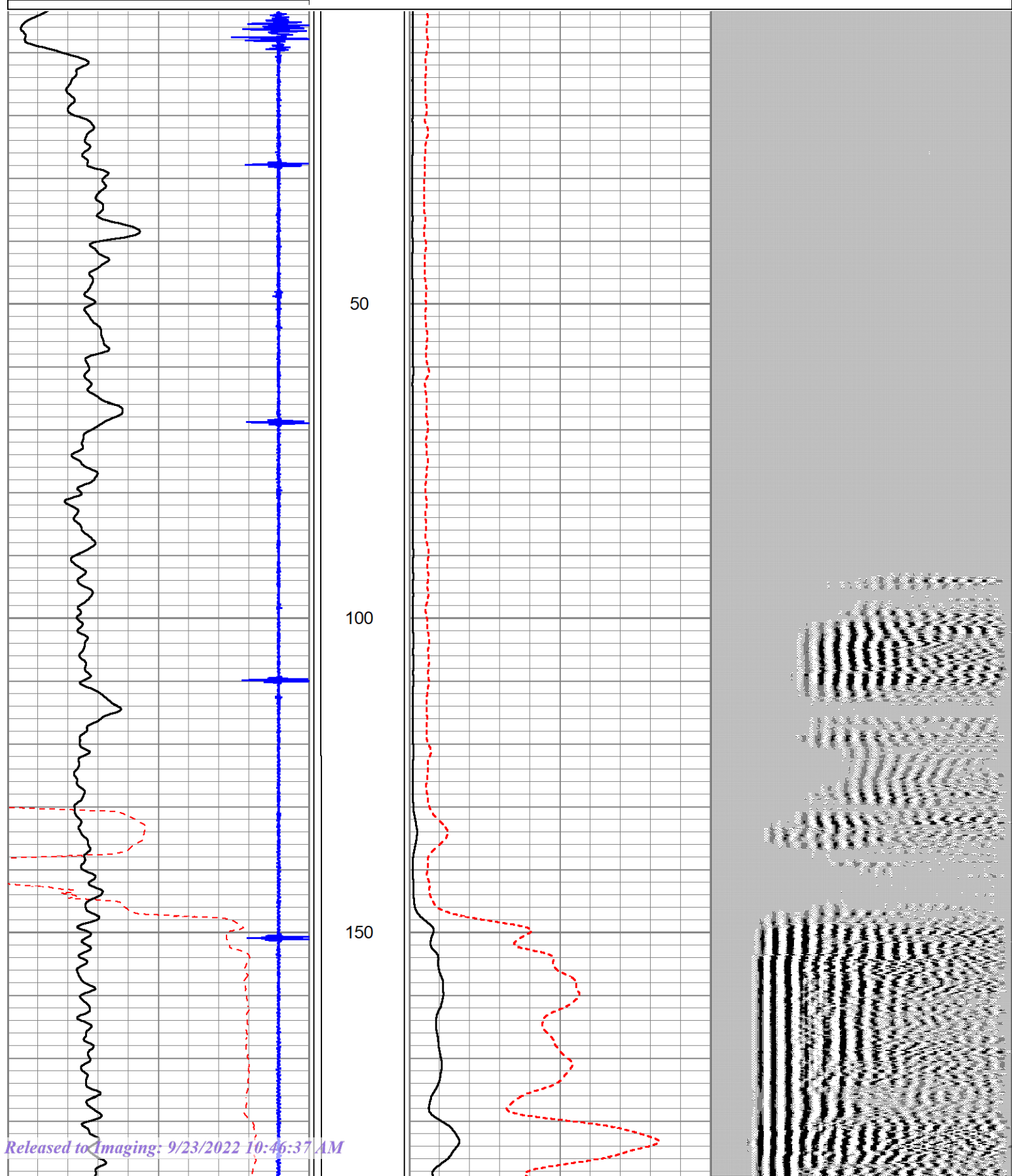
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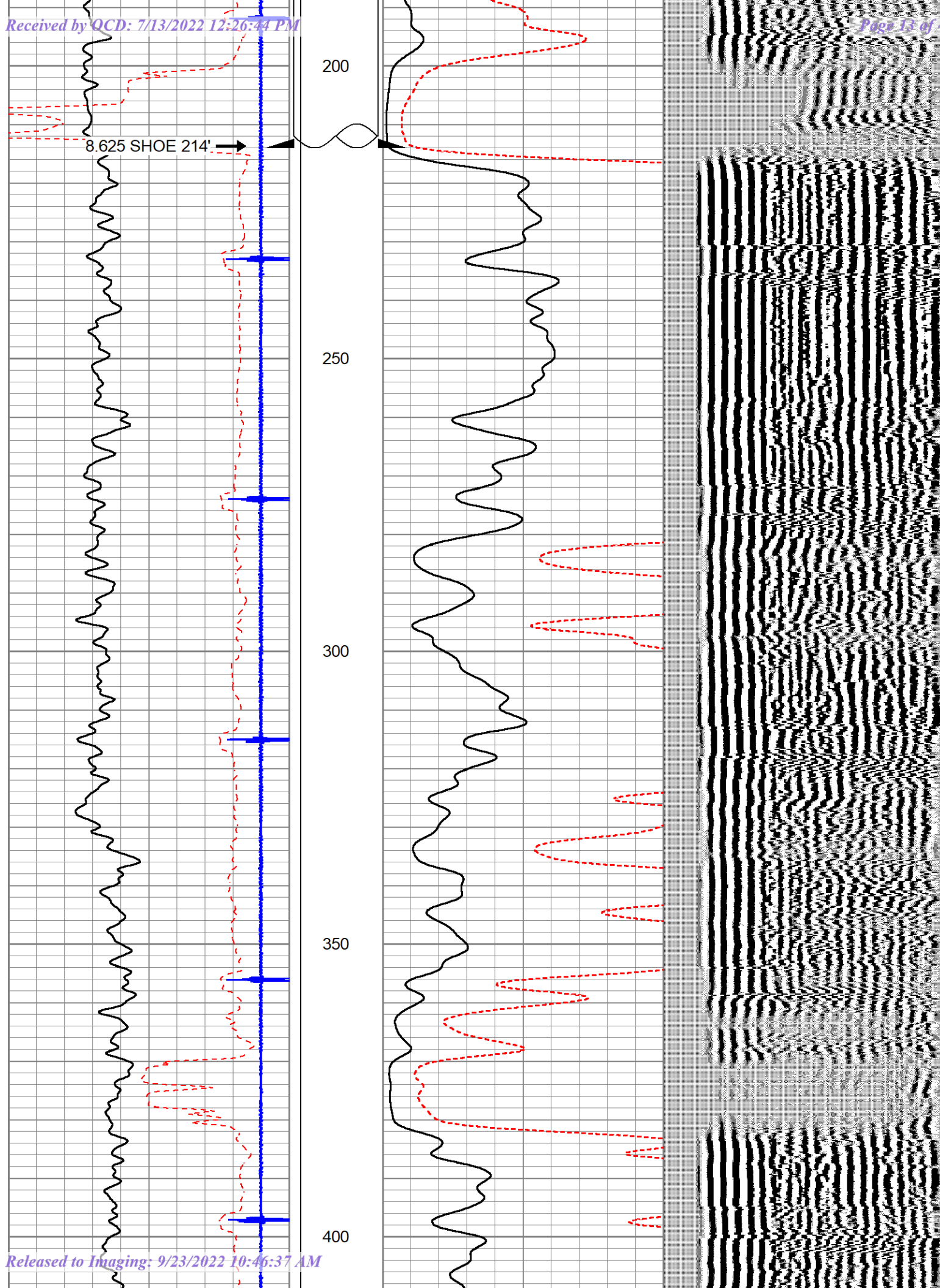


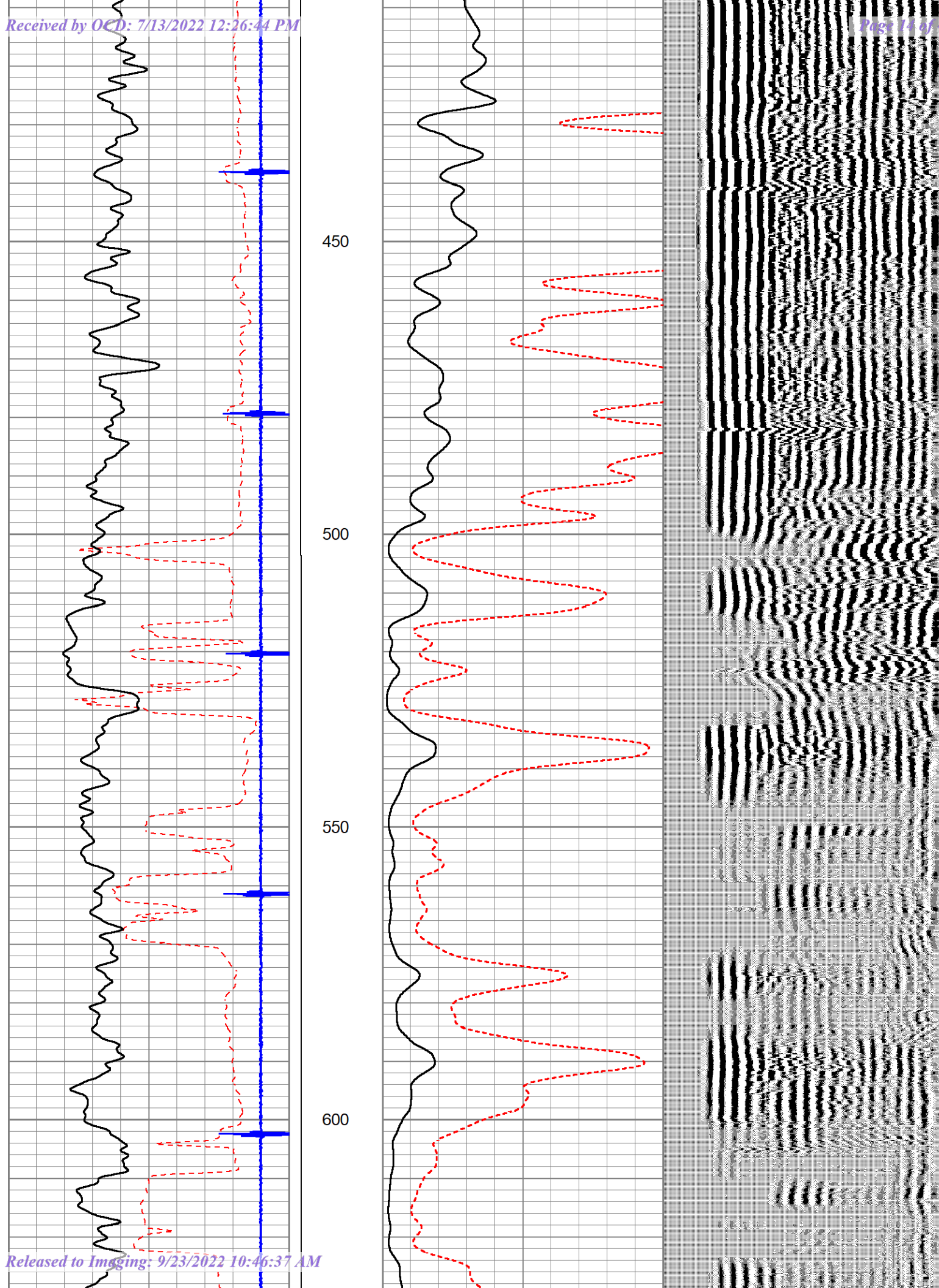
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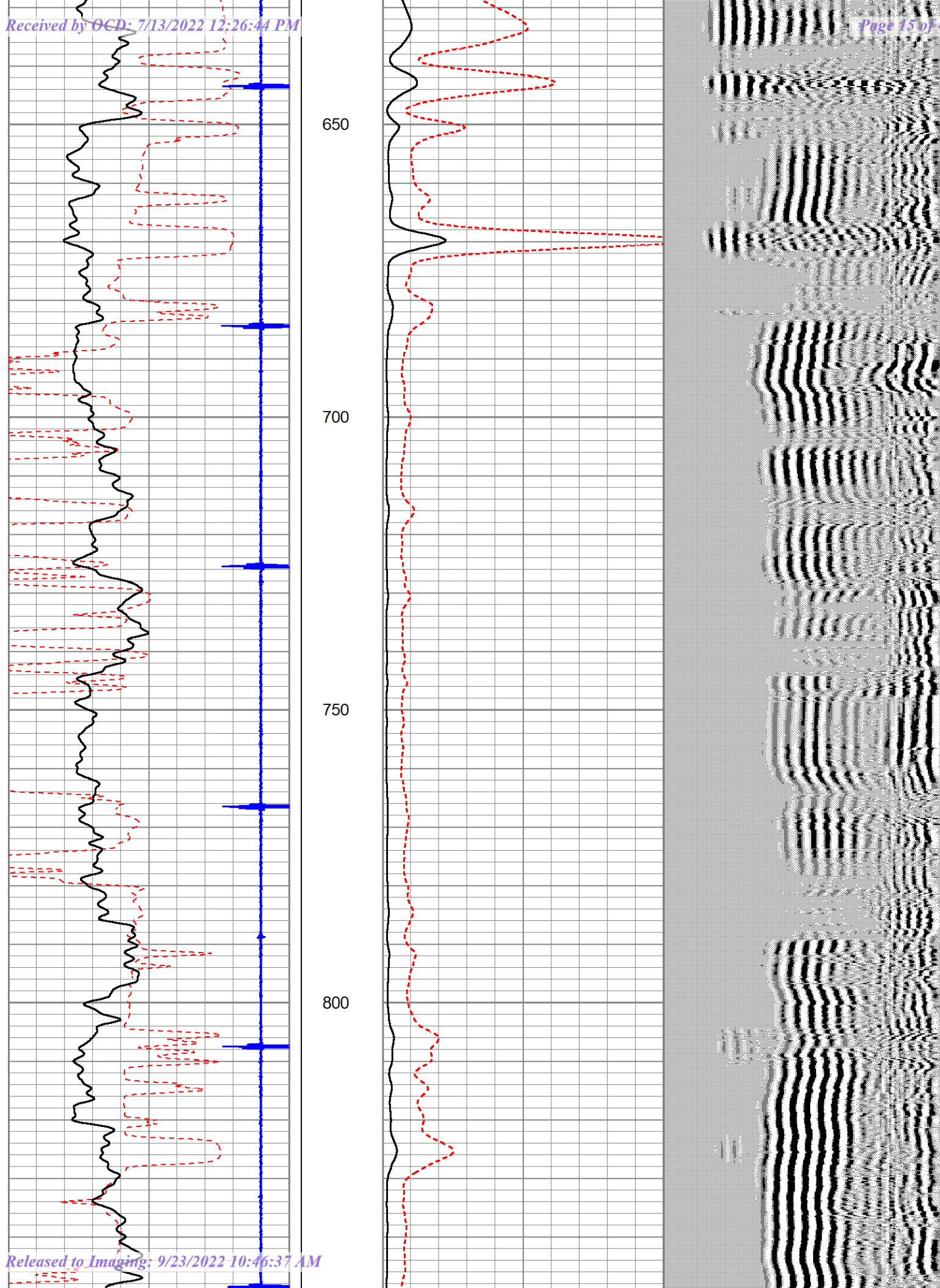
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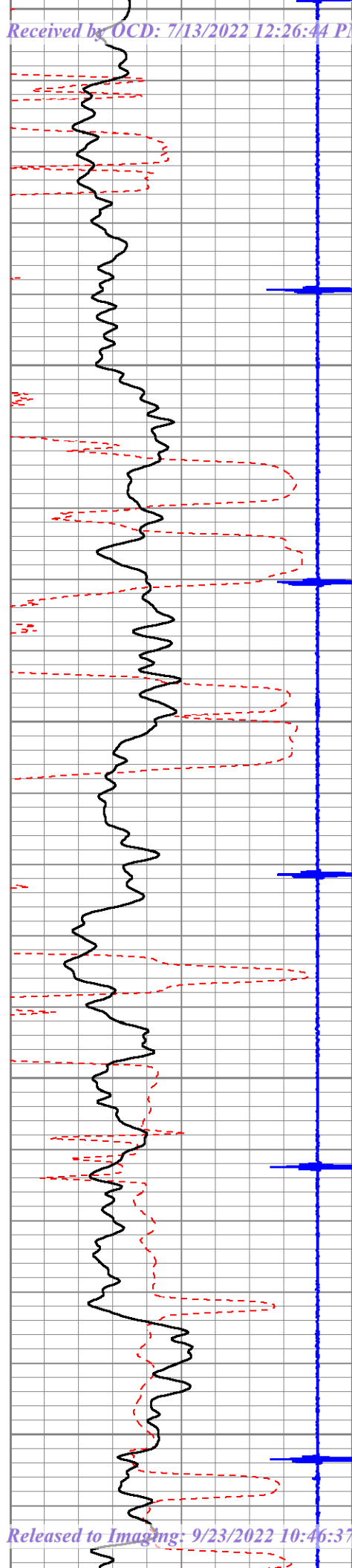
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|-----|----------------|-----|------|----------|-------------|-------------|-----|---------------|------|
| 285 | TT3FT (usec) | 185 | LTEN | 0 | AMP3FT (mV) | 20 | 200 | WVF5FT (usec) | 1200 |
| 36 | Collar Locator | -4 | 0 | (lb 1000 | 0 | AMP3FT (mV) | 100 | | |
| 0 | Gamma Ray | 200 | | | | | | | |











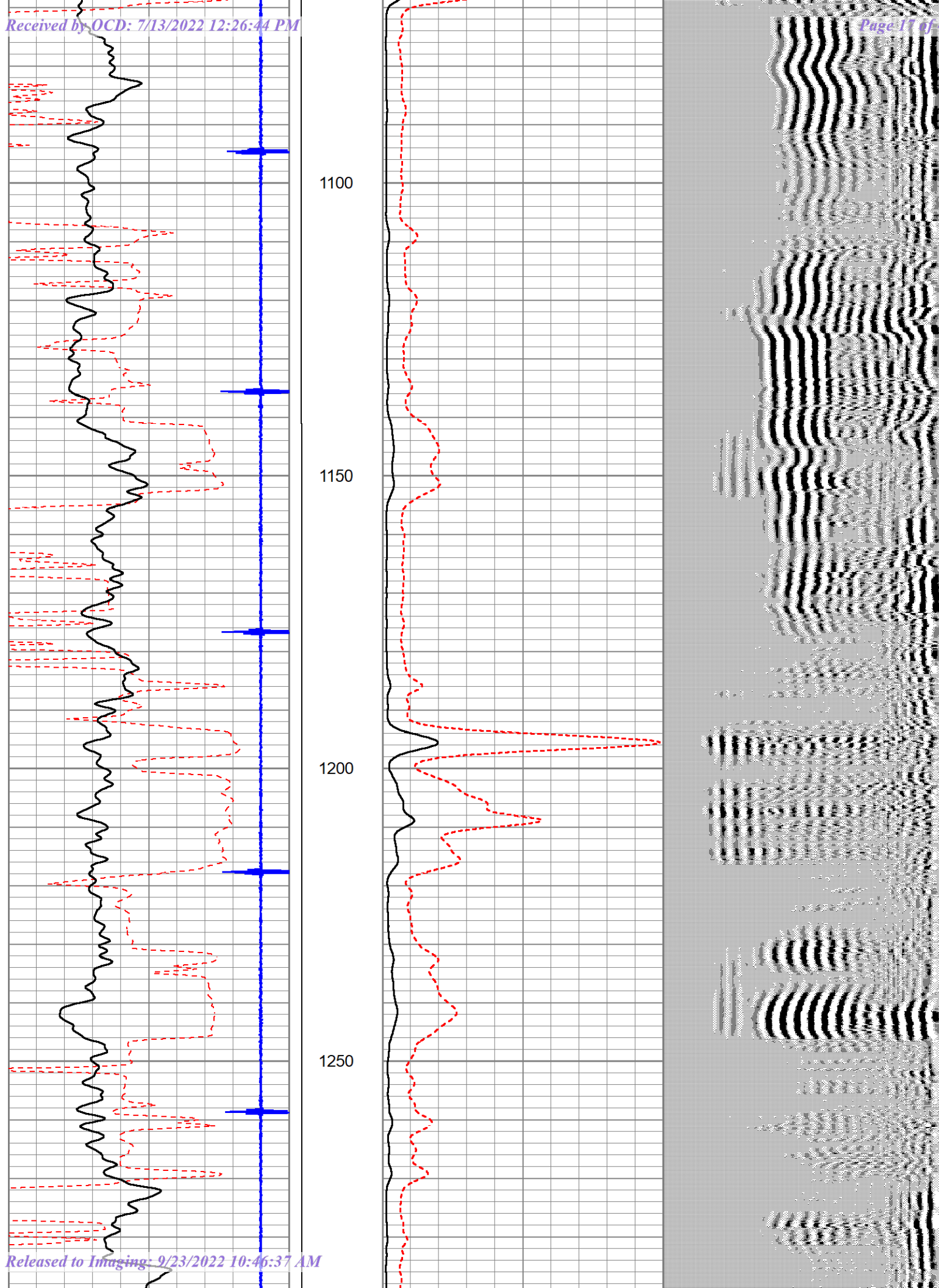
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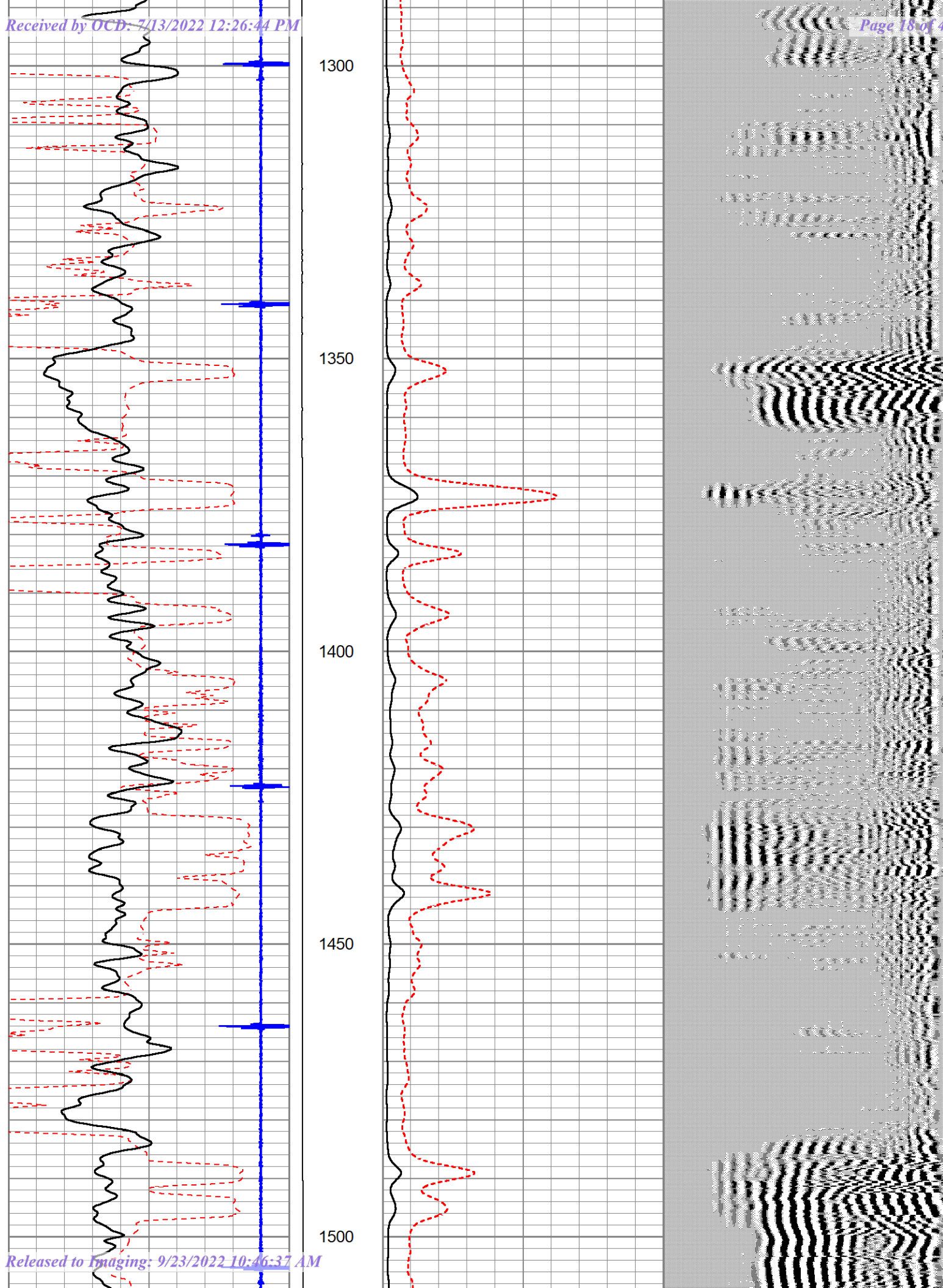
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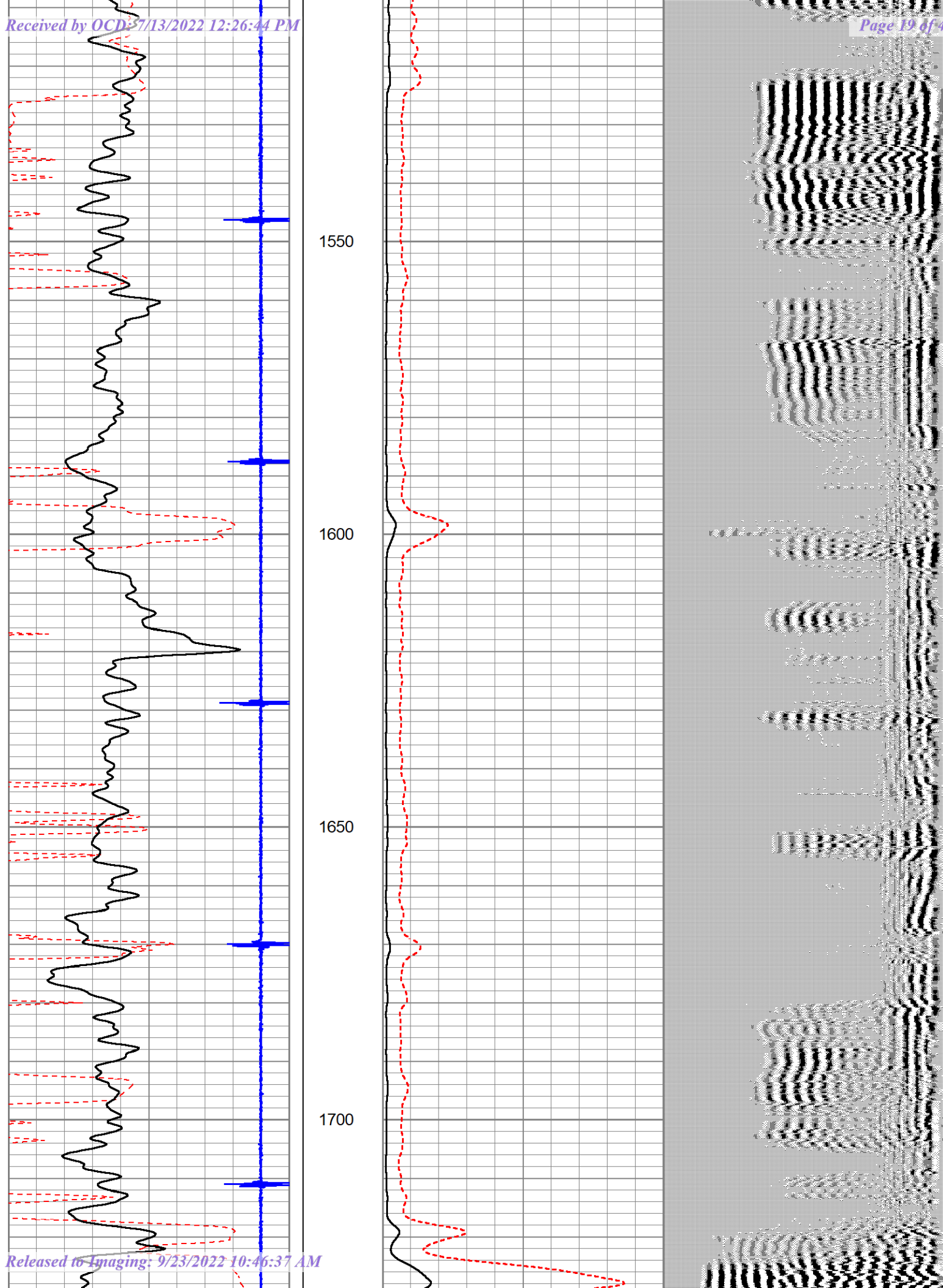
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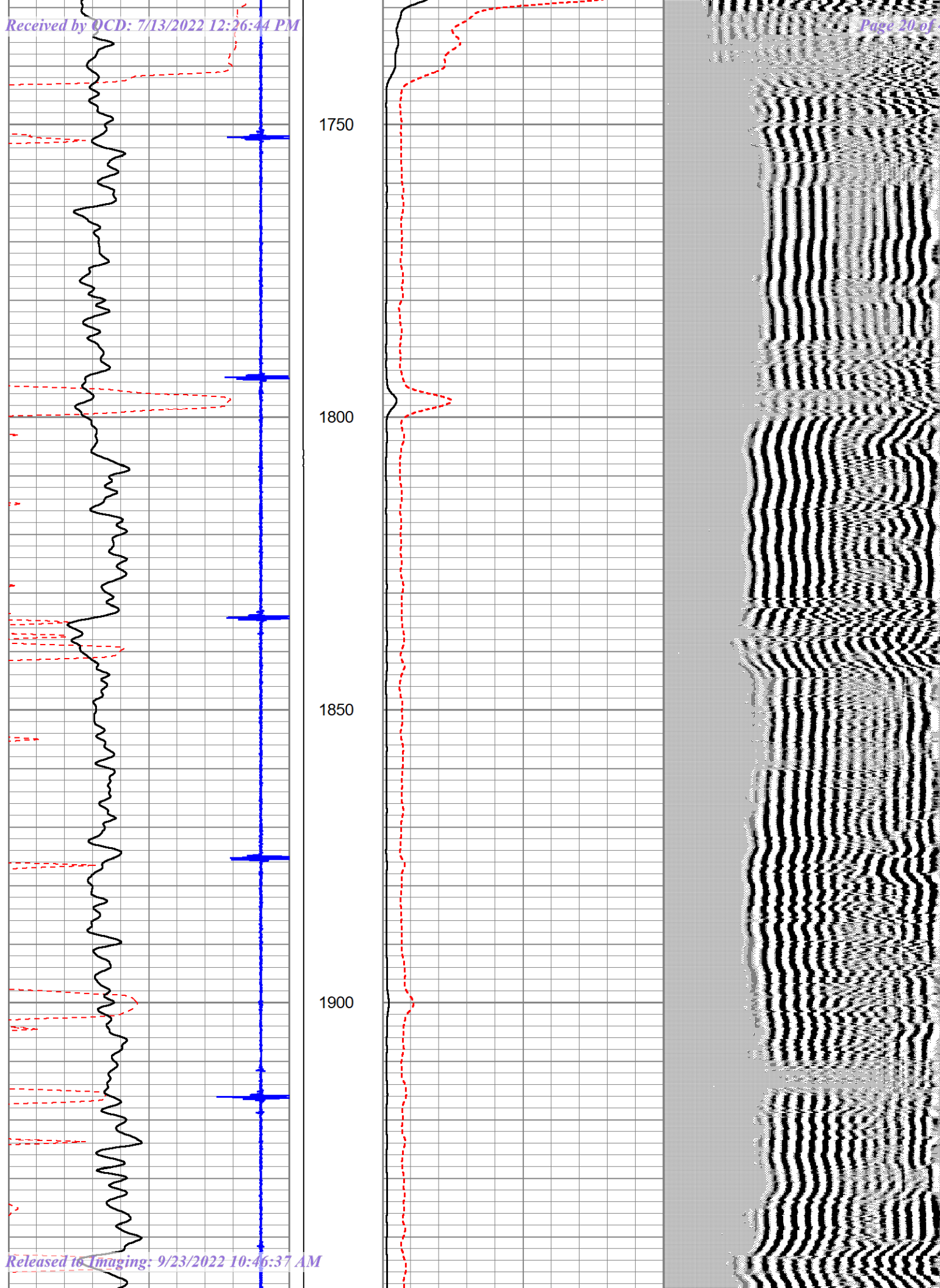
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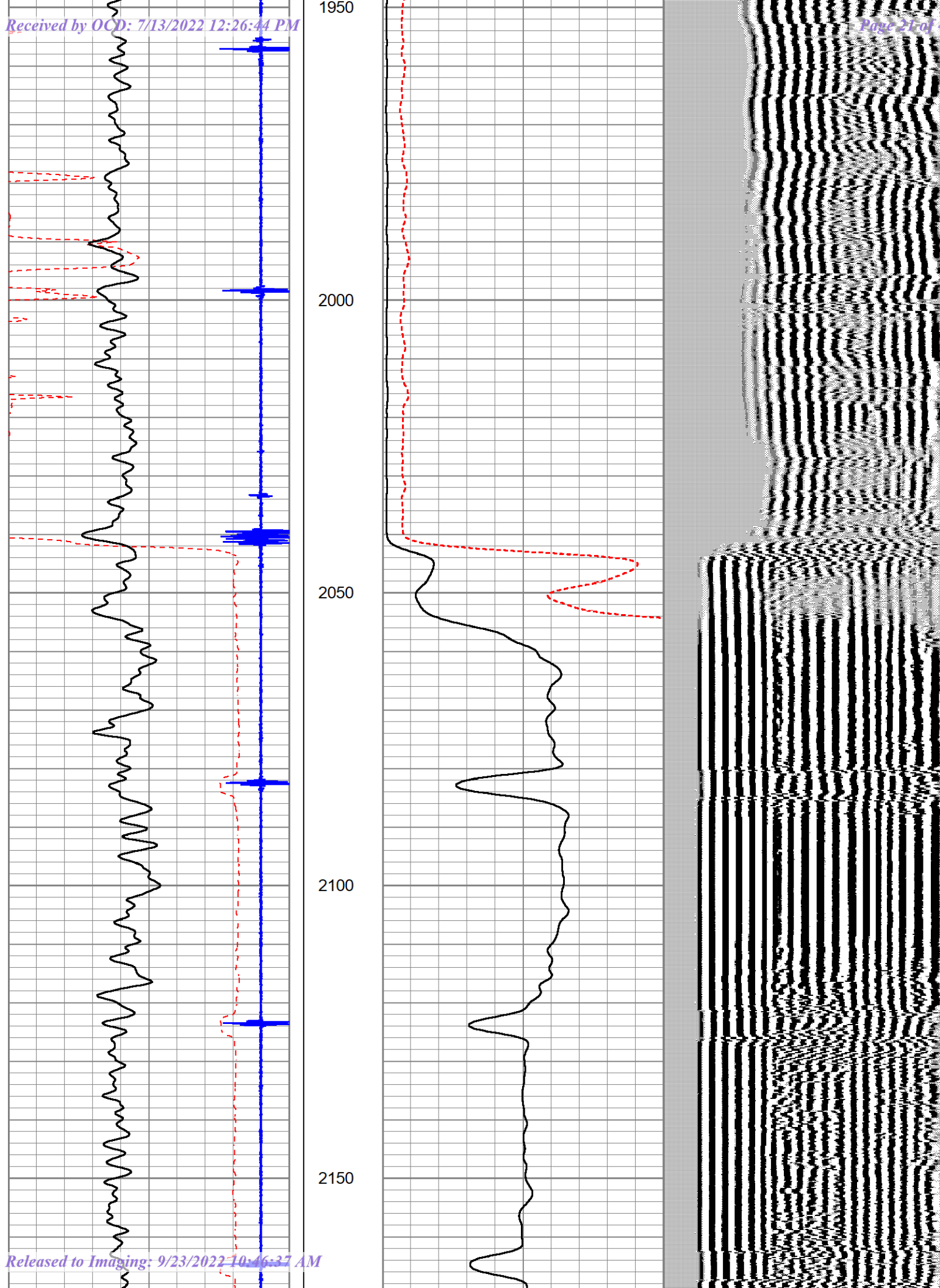
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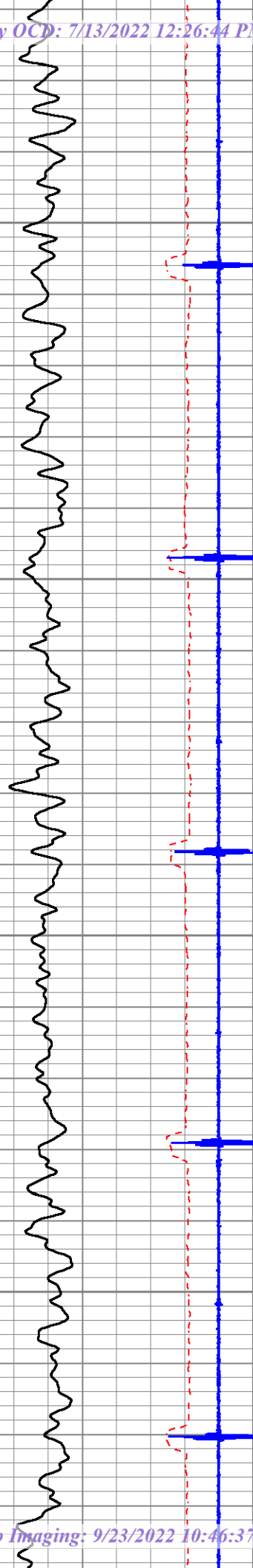










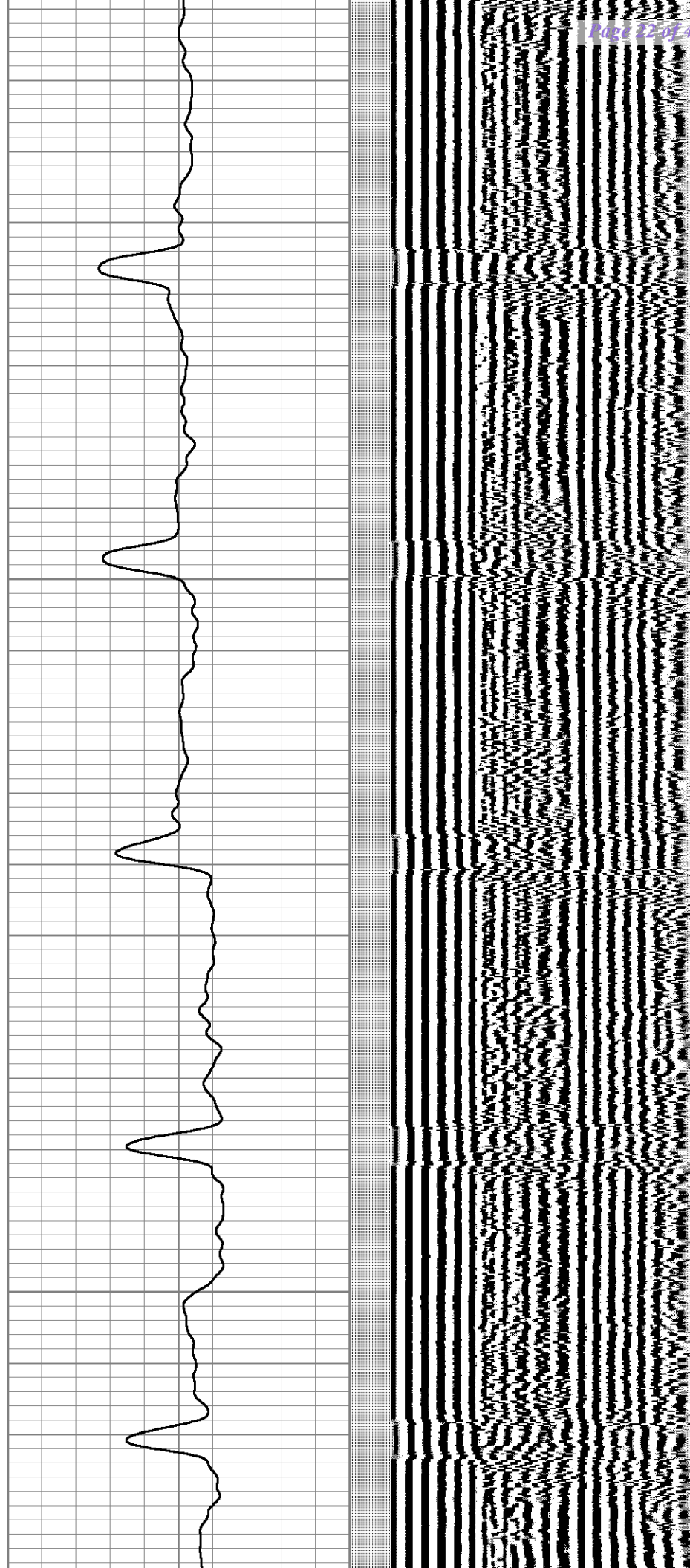


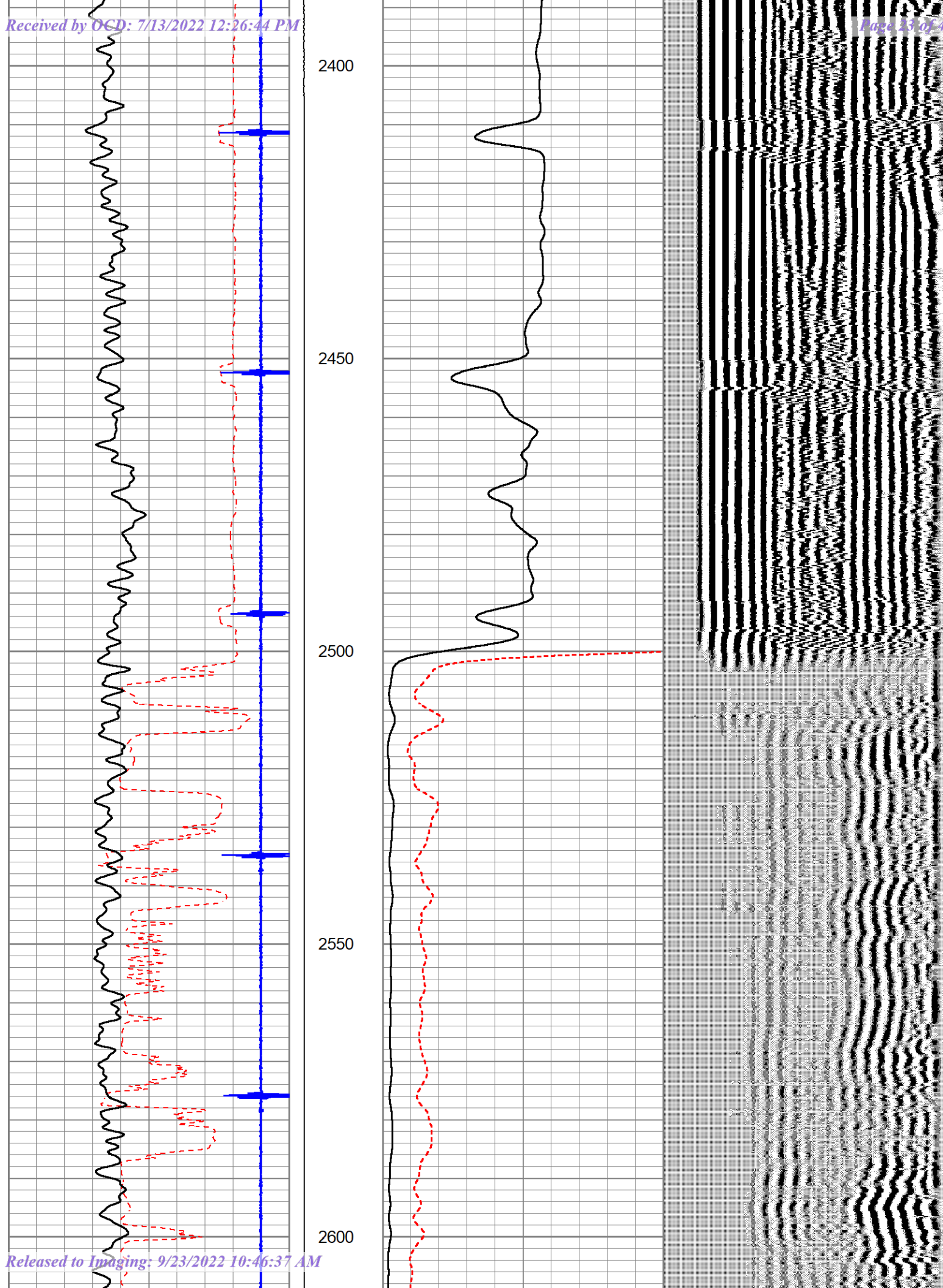
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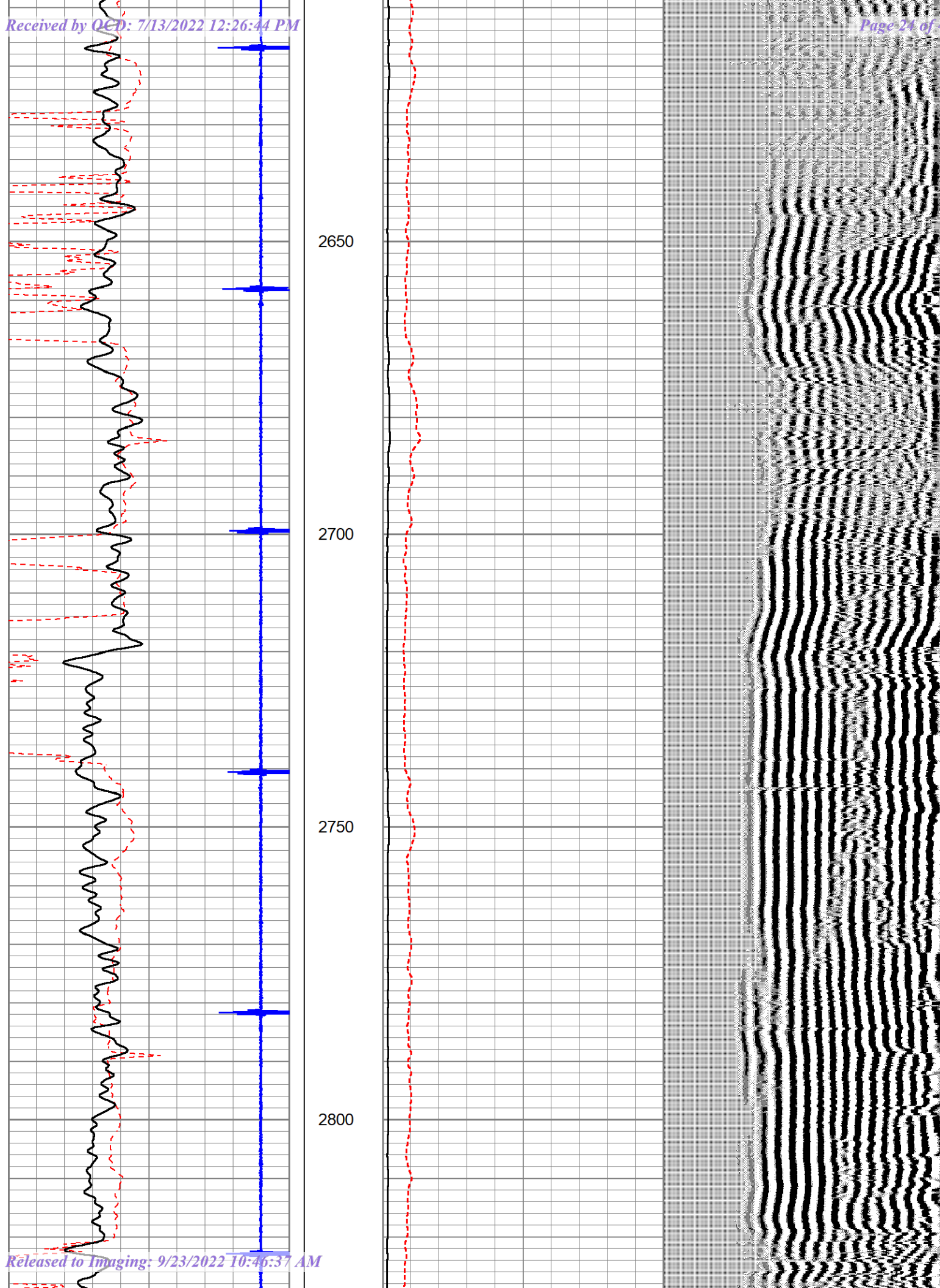
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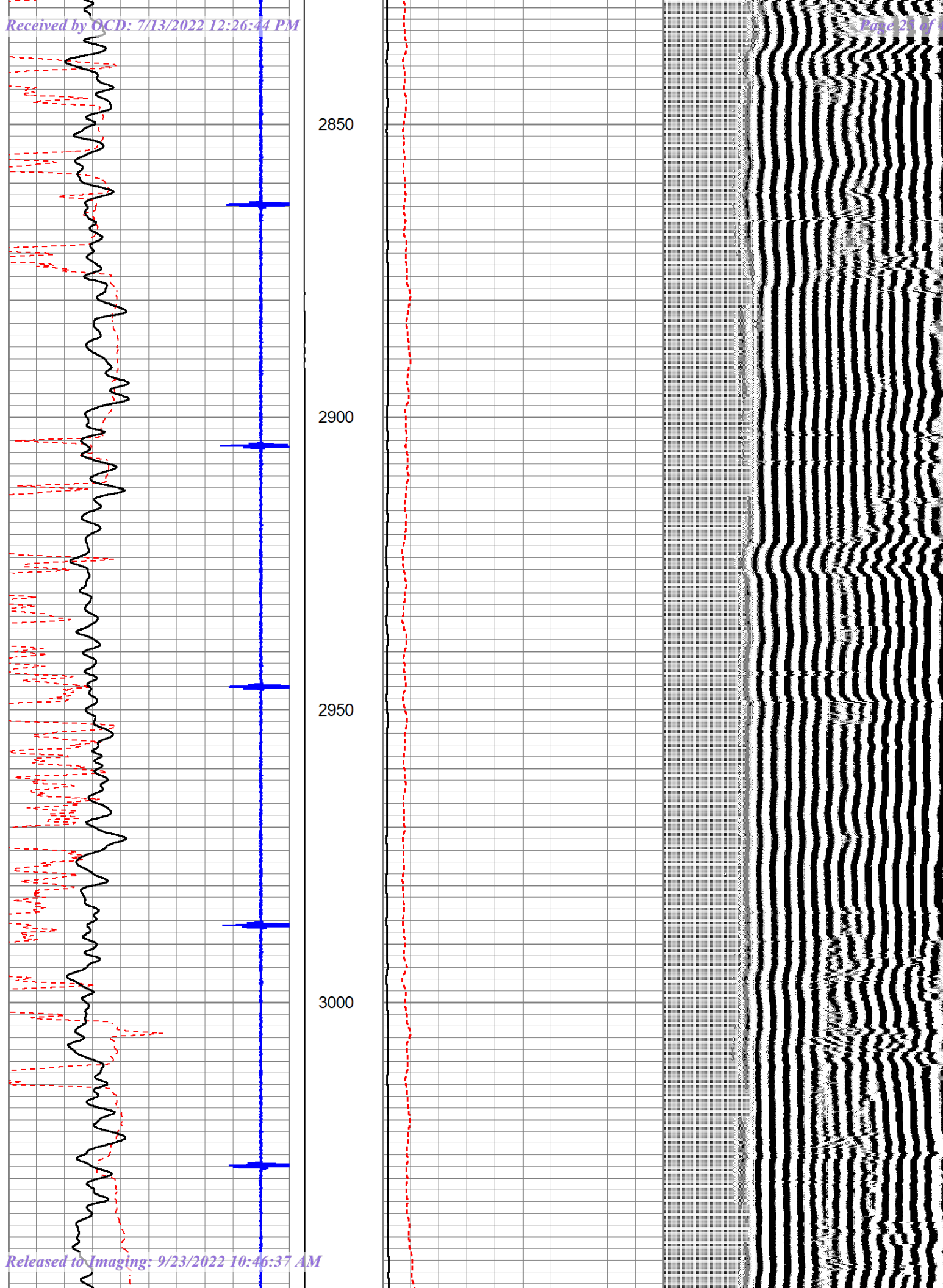
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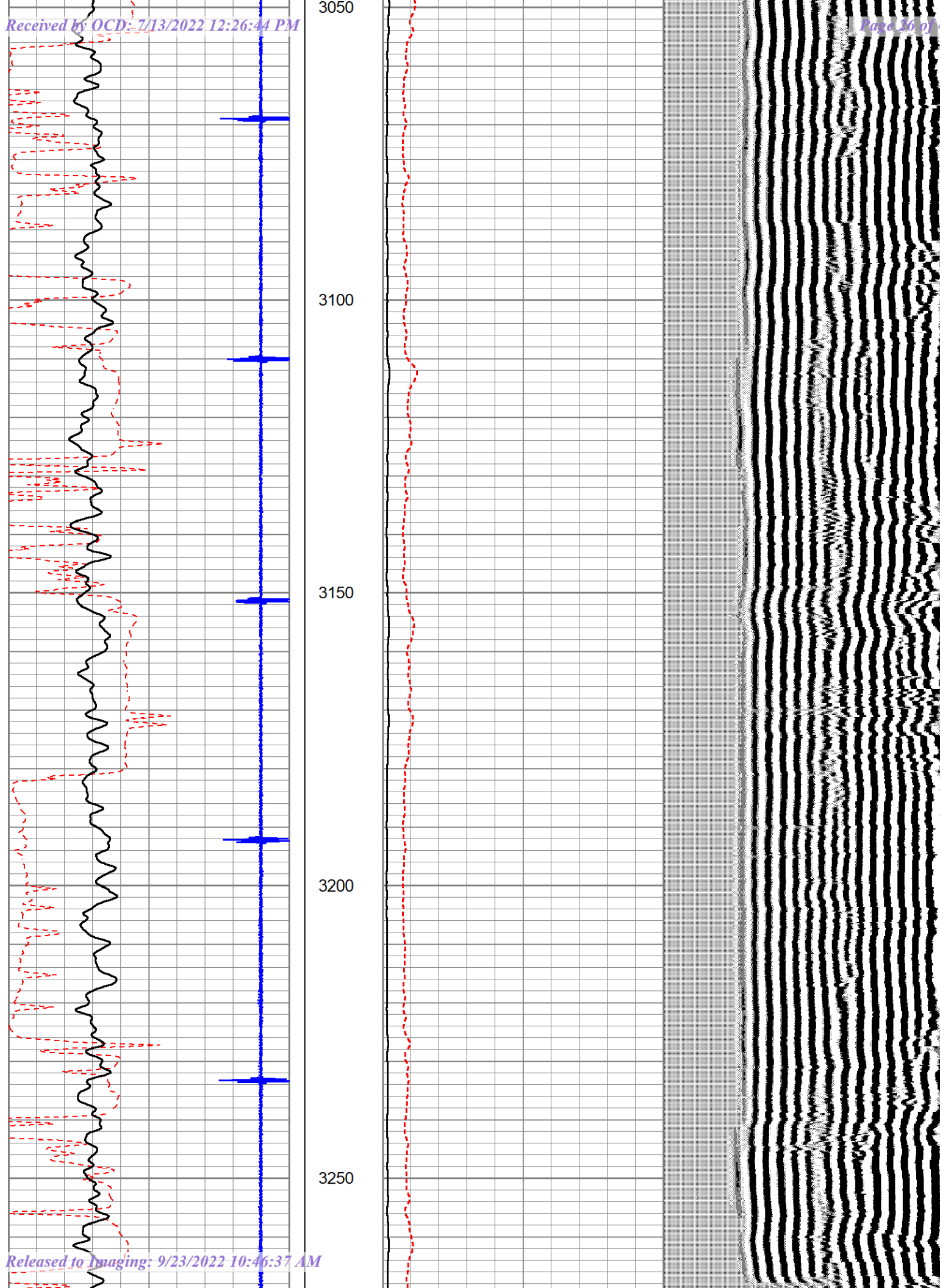
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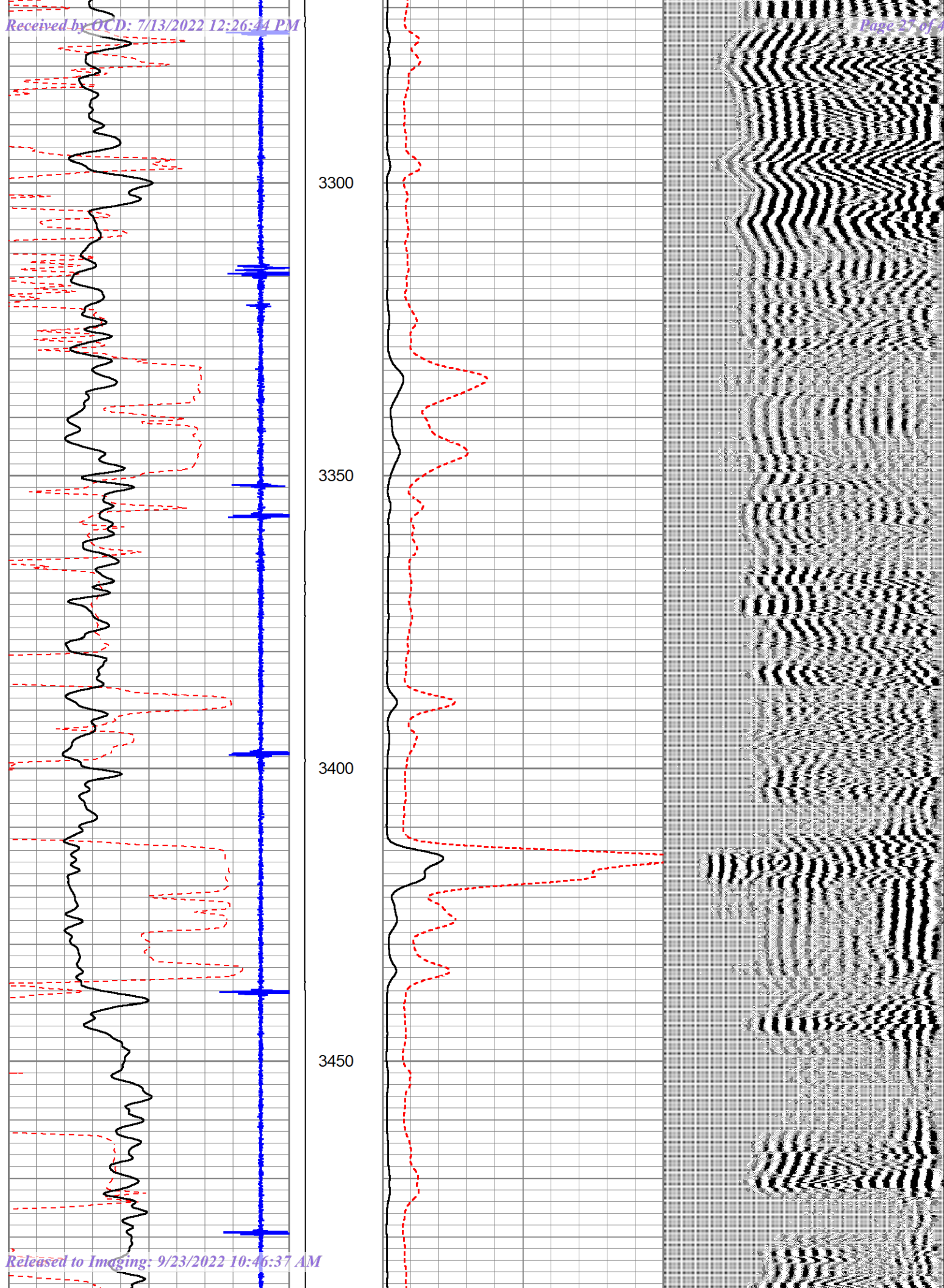


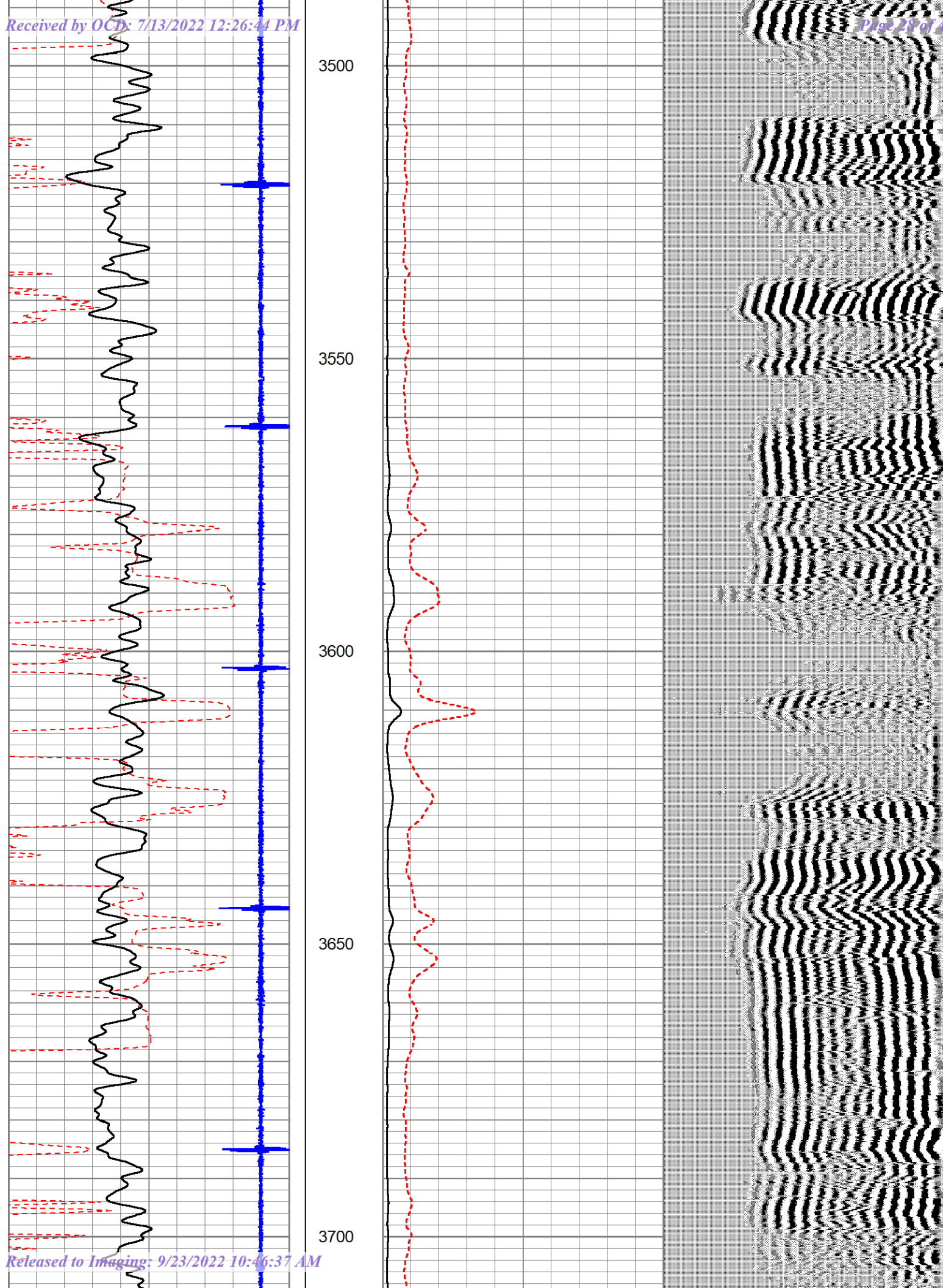


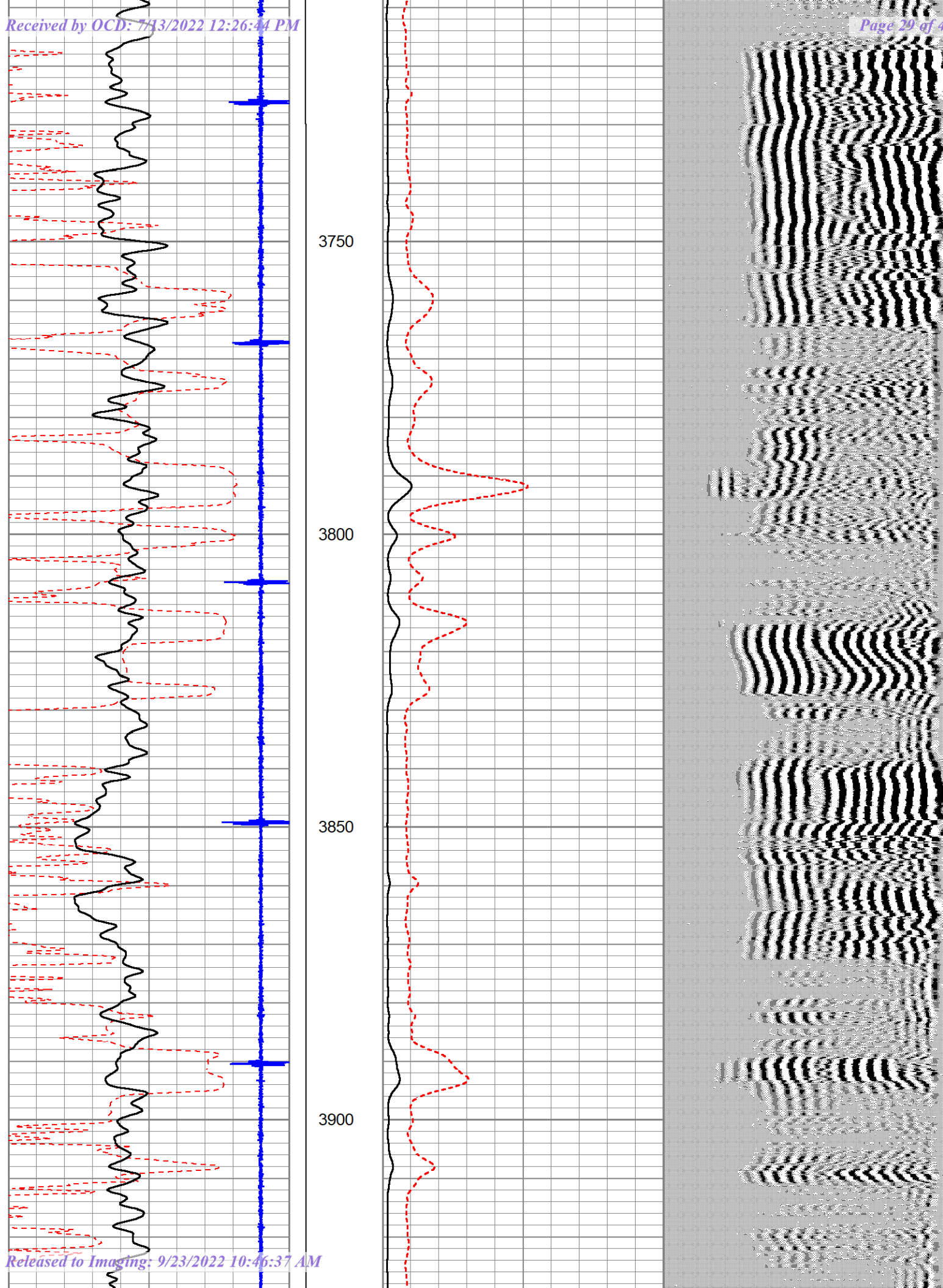


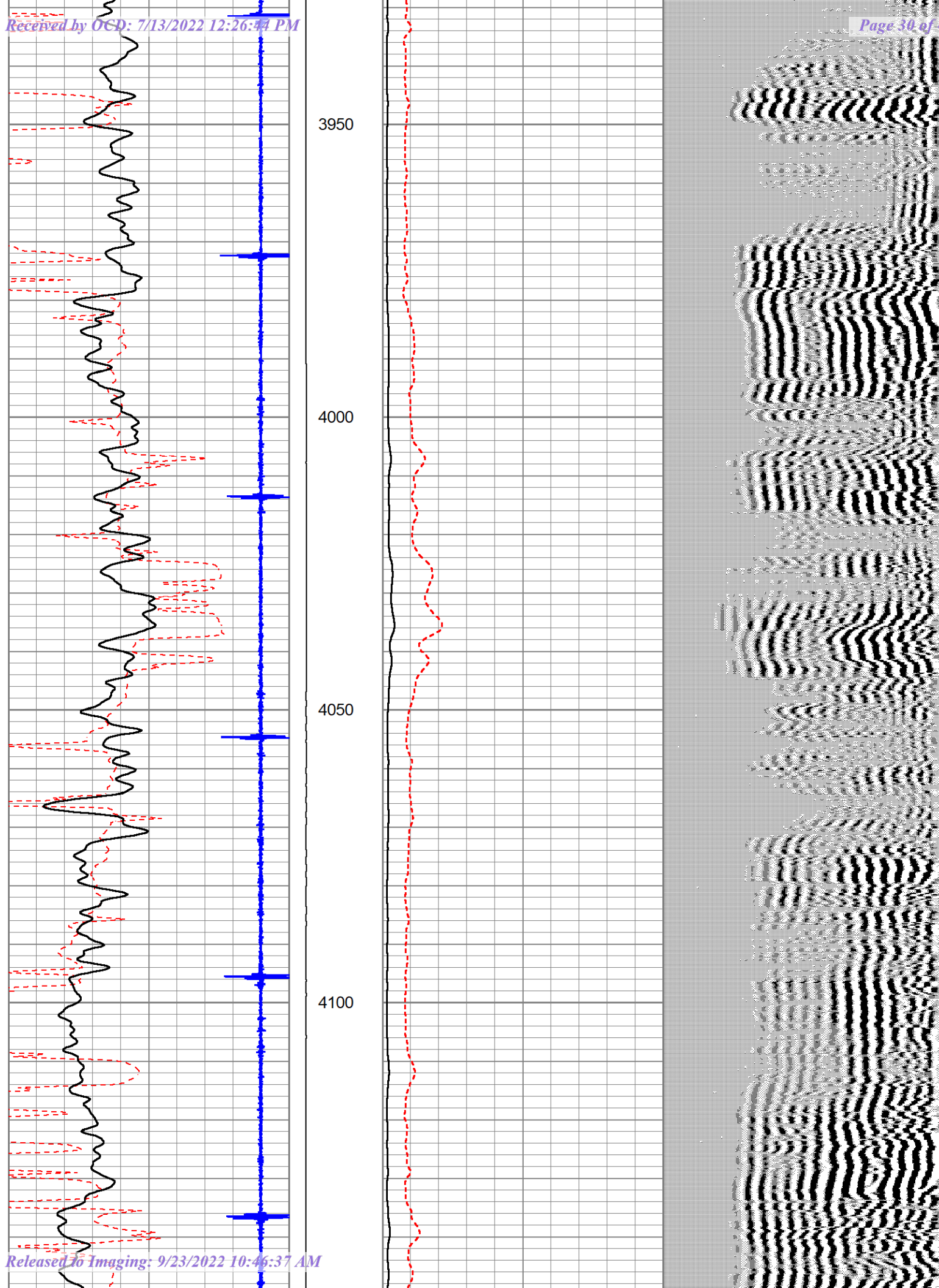


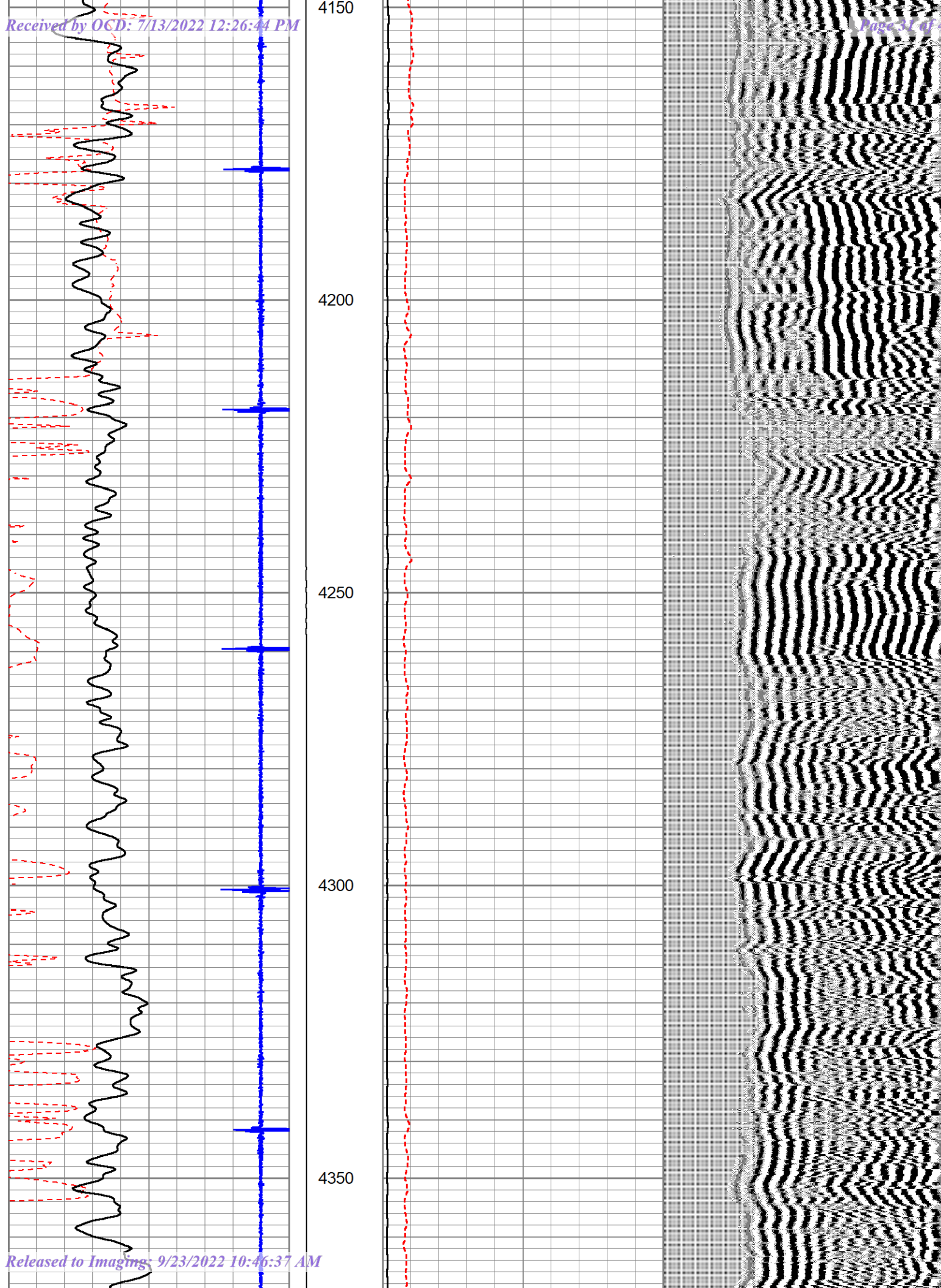


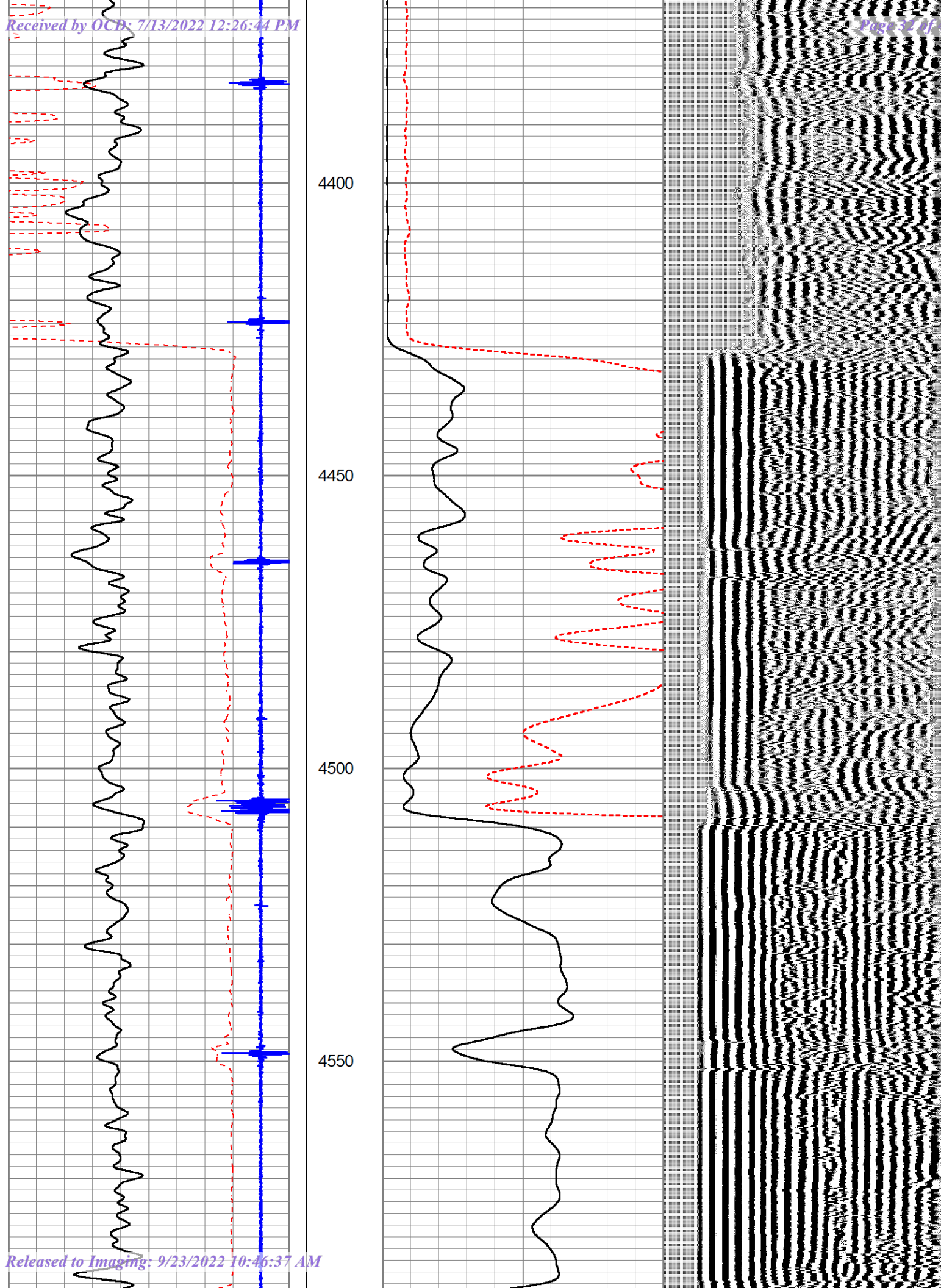


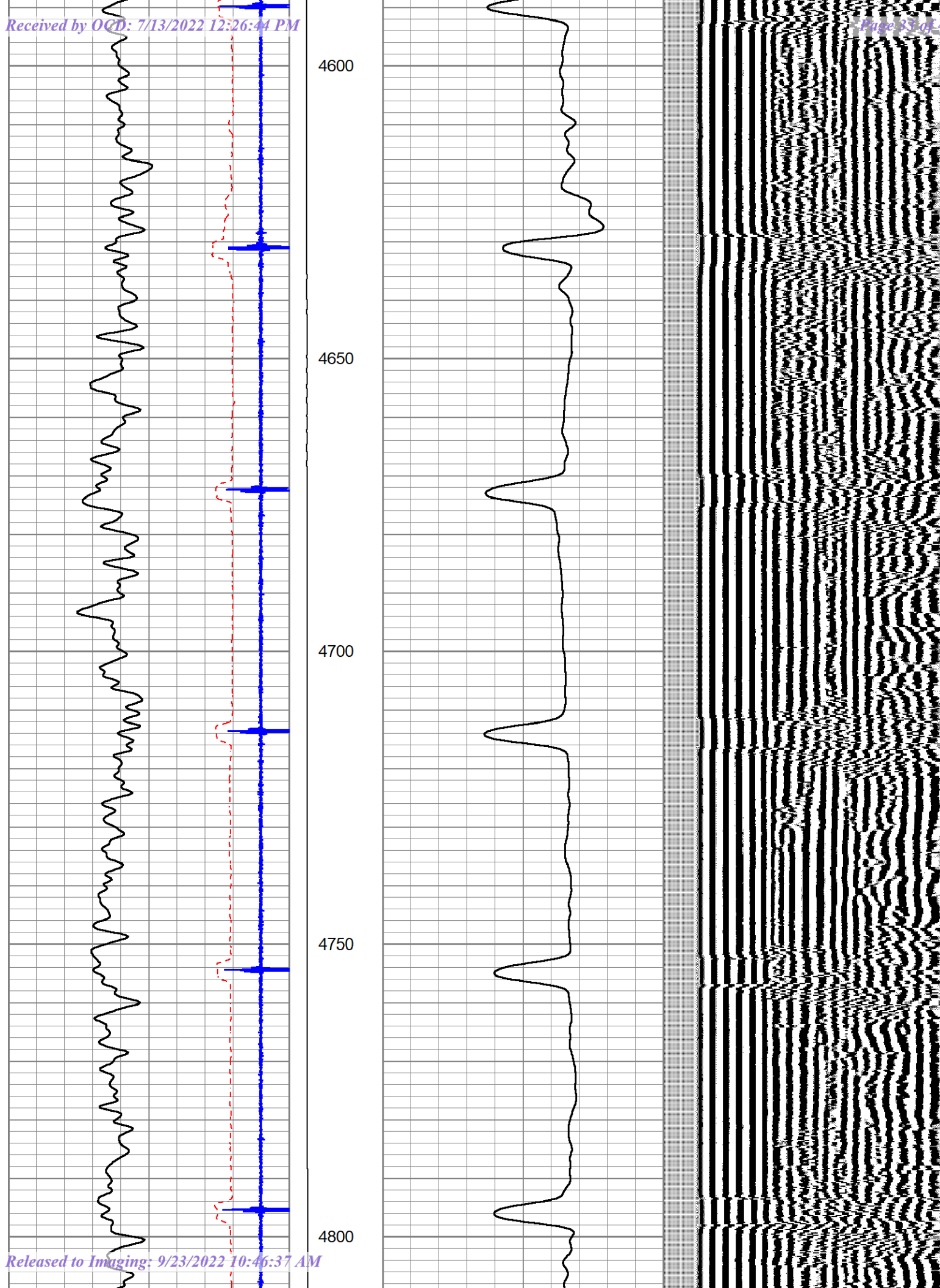


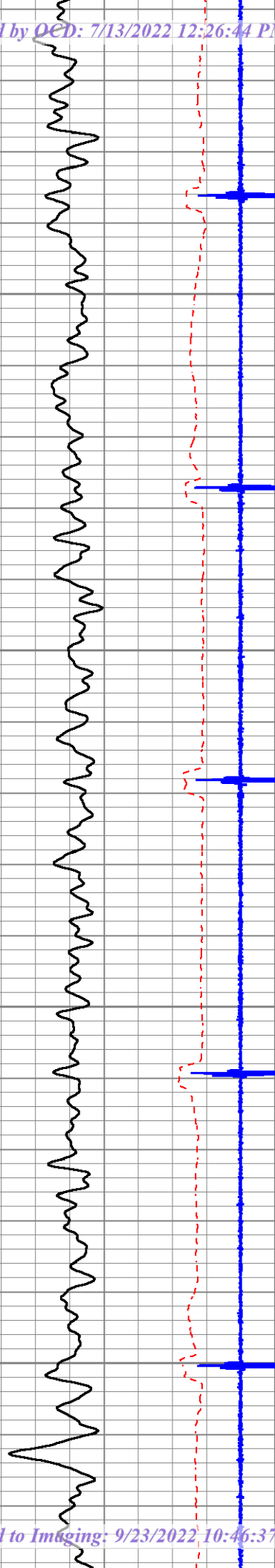










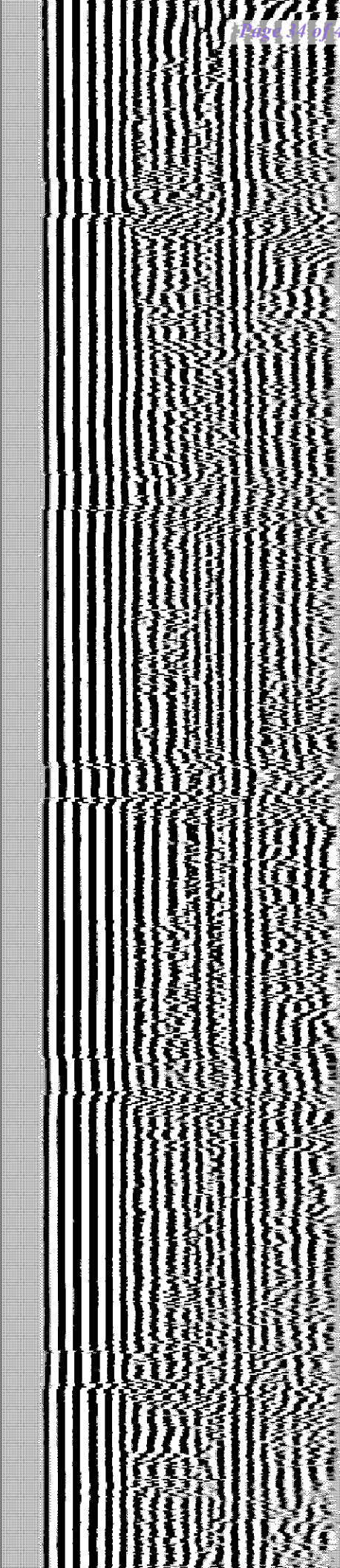
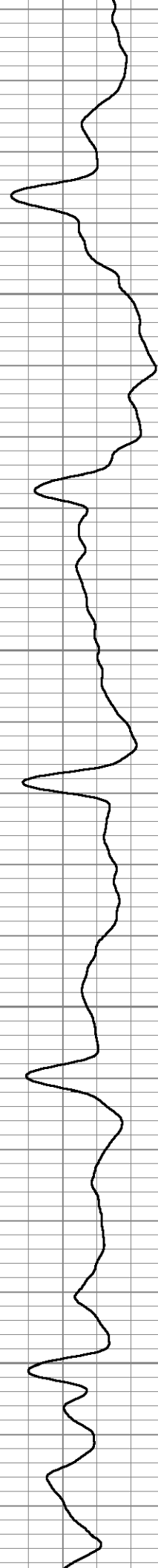


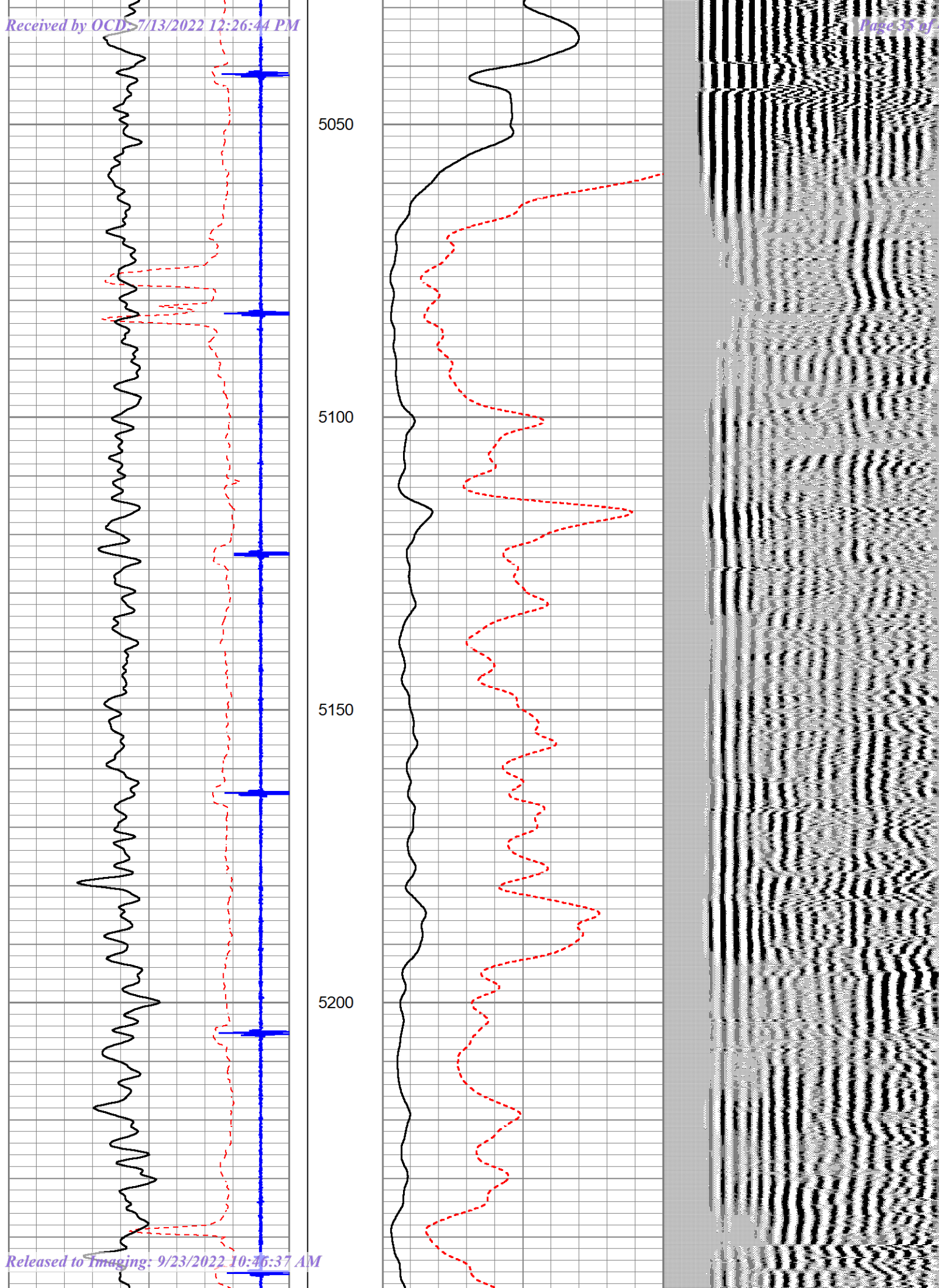
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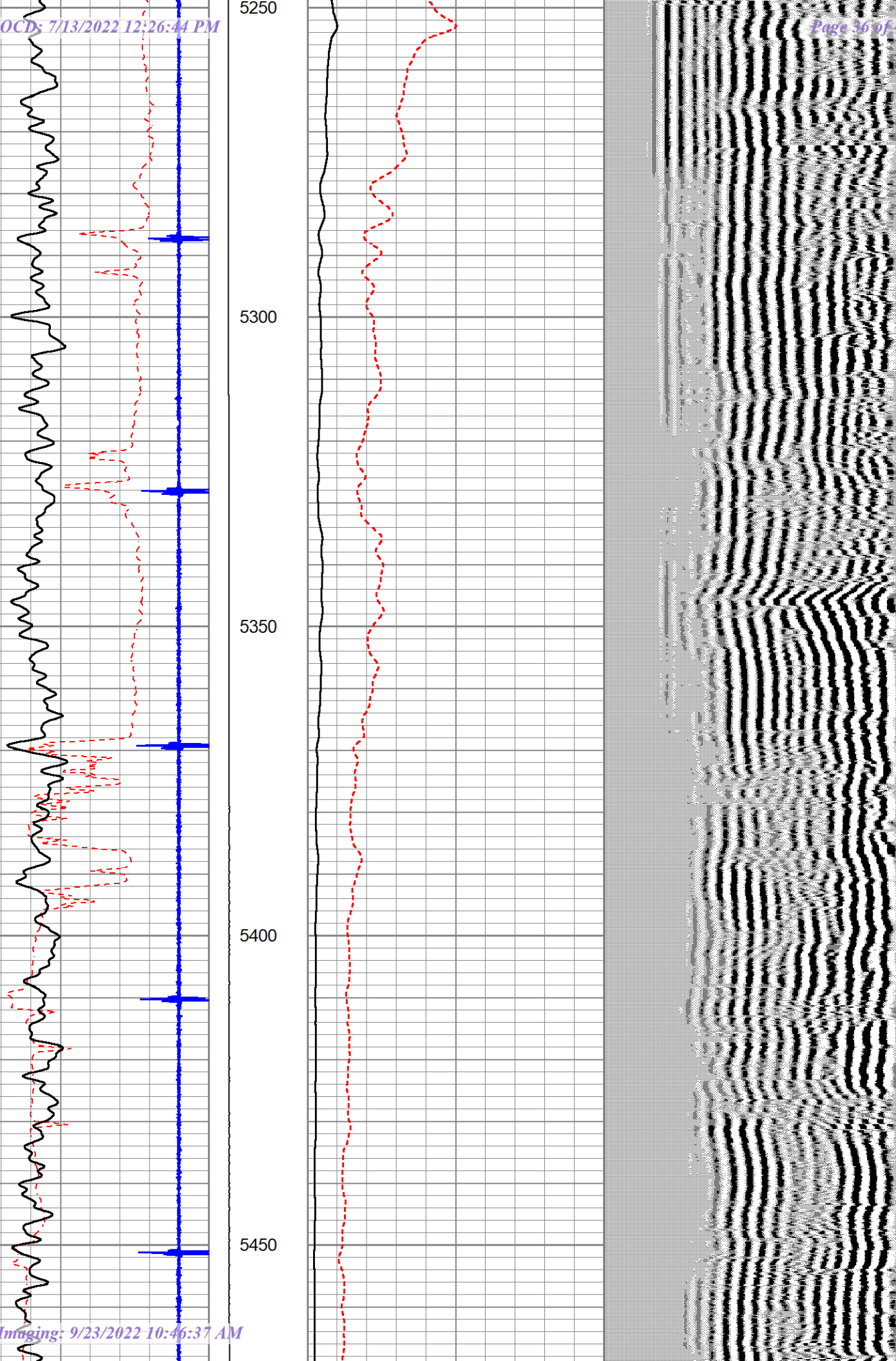
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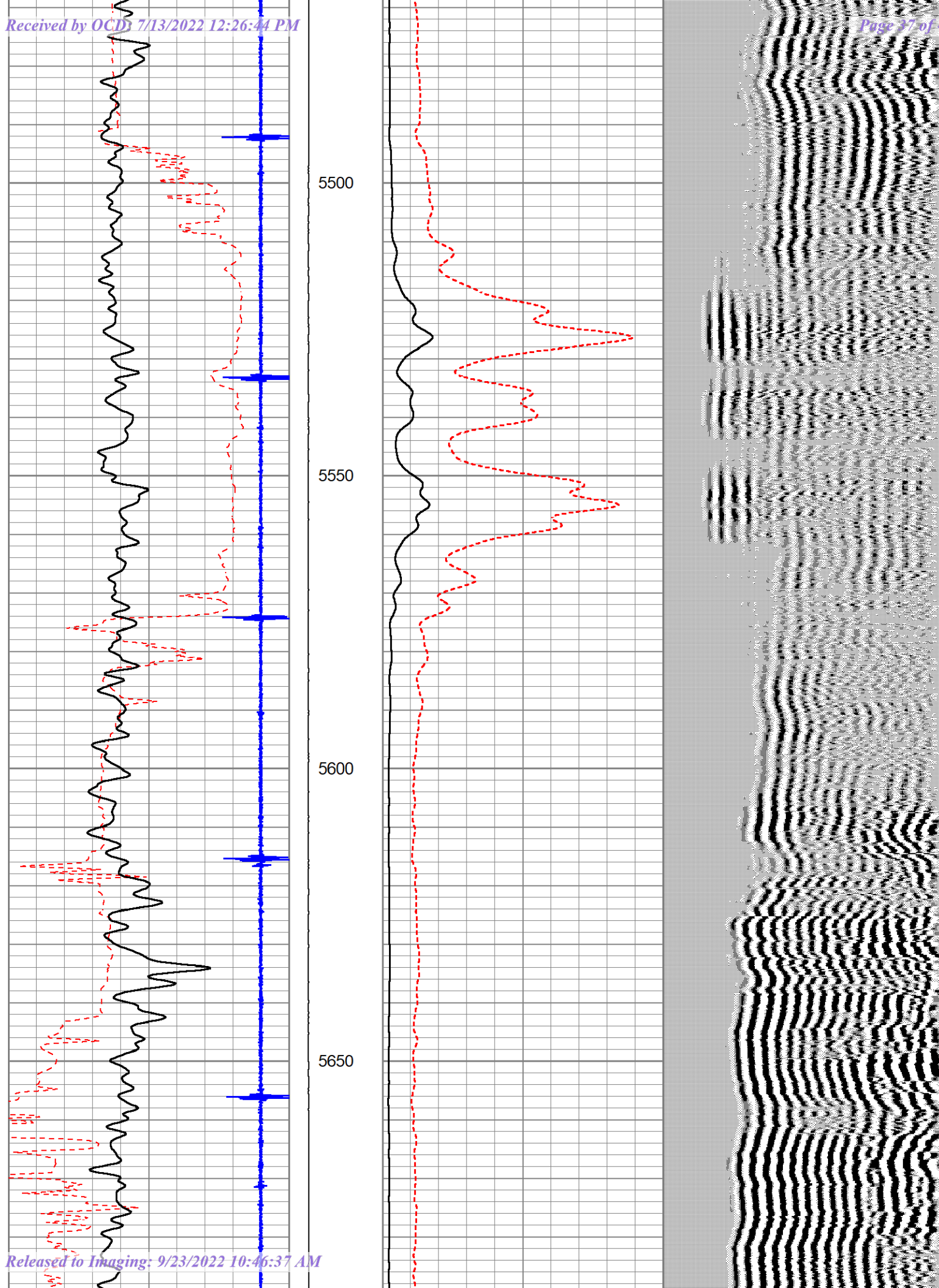
4950

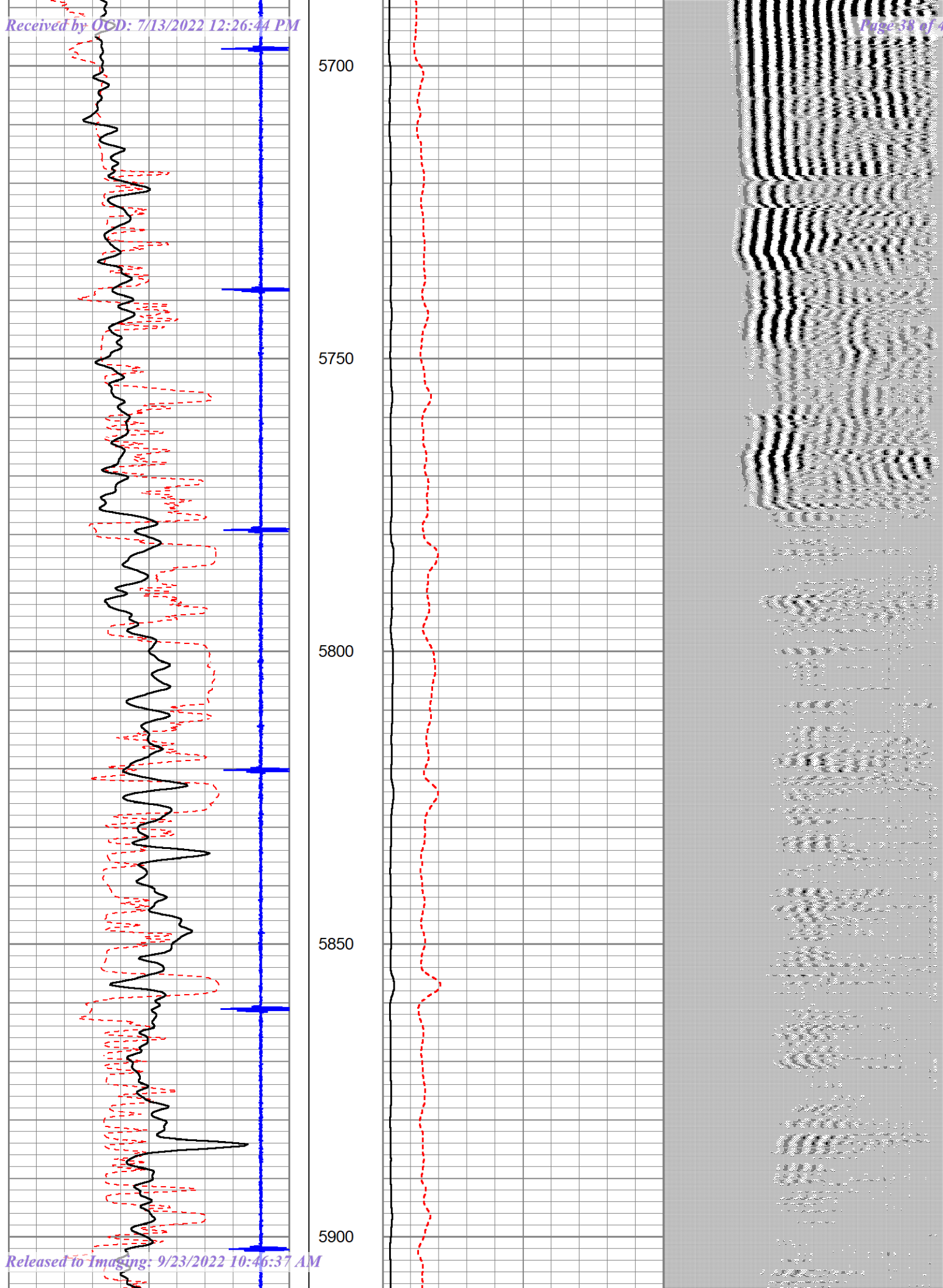
5000









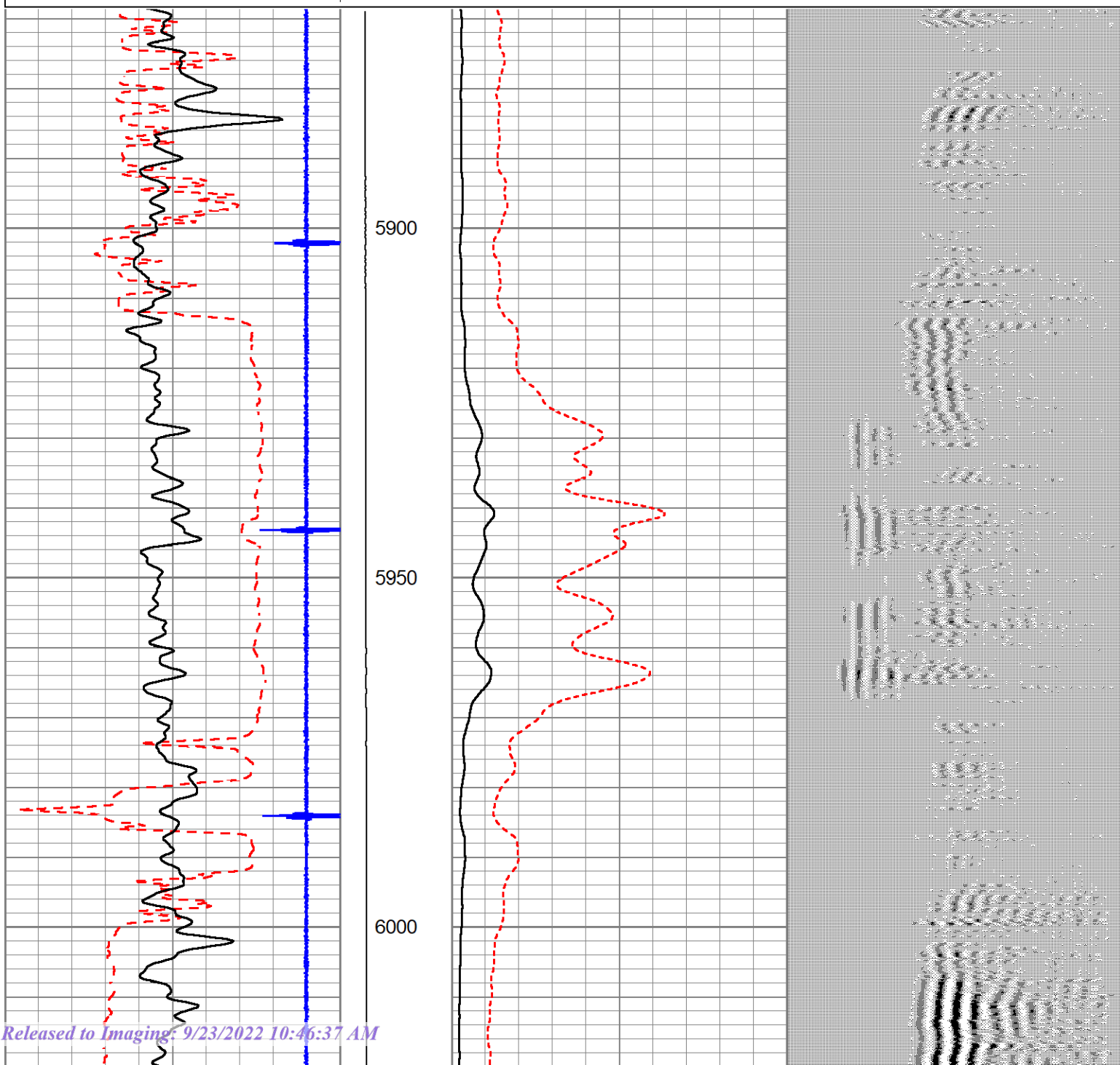


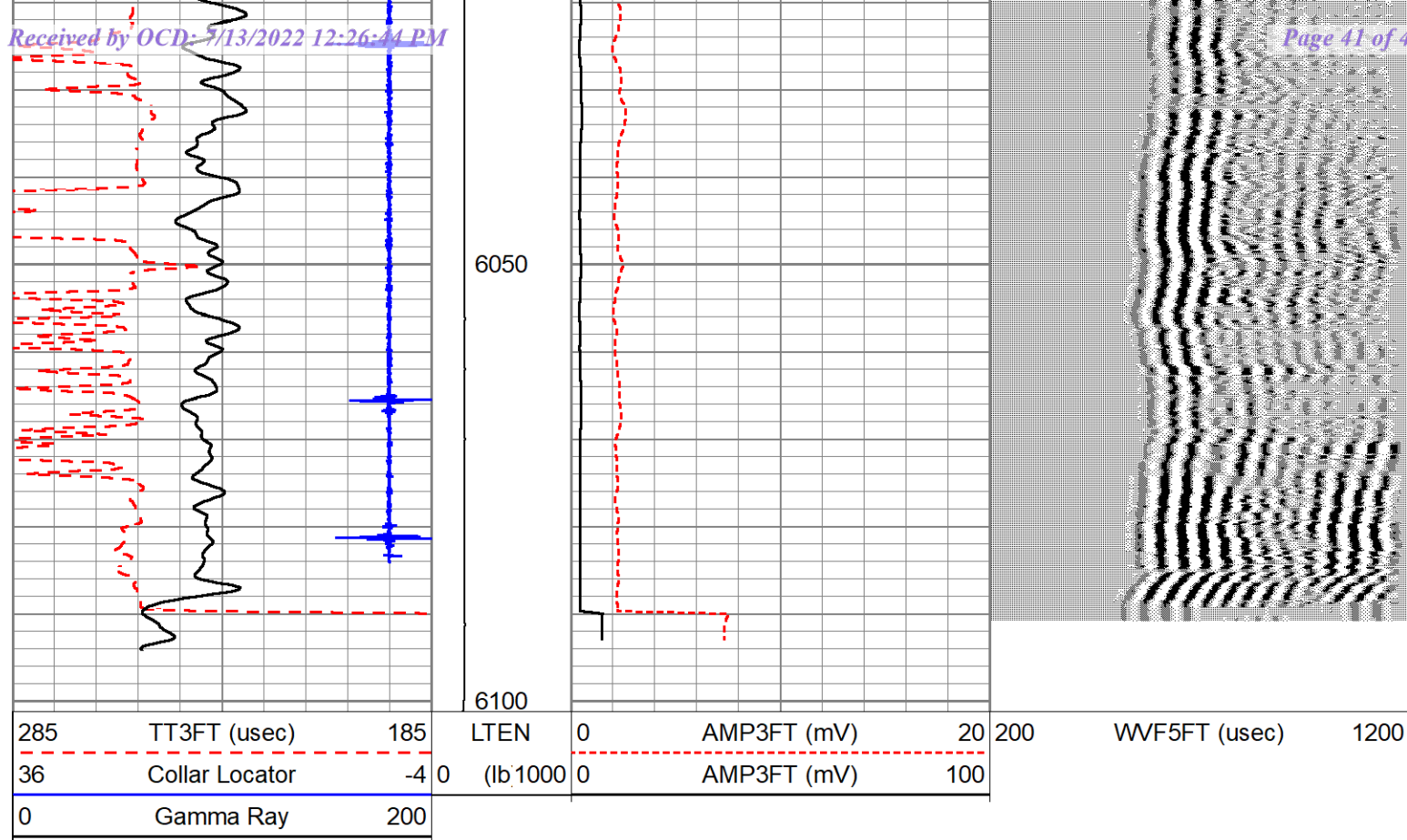


REPEAT PASS

Database File 062322drake.db
Dataset Pathname pass2.1
Presentation Format scbl_dr
Dataset Creation Thu Jun 23 19:07:04 2022
Charted by Depth in Feet scaled 1:240

| | | | | | | | | | |
|-----|----------------|-----|------|-----------|-------------|-------------|-----|---------------|------|
| 285 | TT3FT (usec) | 185 | LTEN | 0 | AMP3FT (mV) | 20 | 200 | WVF5FT (usec) | 1200 |
| 36 | Collar Locator | -4 | 0 | (lb,1000) | 0 | AMP3FT (mV) | 100 | | |
| 0 | Gamma Ray | 200 | | | | | | | |



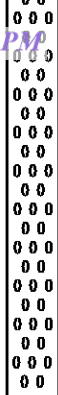


REPEAT PASS

| Sensor | Offset (ft) | Schematic | Description | Length (ft) | O.D. (in) | Weight (lb) |
|--------|-------------|-----------|-----------------------------------|-------------|-----------|-------------|
| CCL | 16.98 | | CHD-AES (000001) Cable Head | 1.04 | 1.69 | 2.00 |
| | | | CENT-TTN2.75 | 3.00 | 2.75 | 5.00 |
| | | | CCL-Titan (TTN_1) 2.75 TTN CCL | 2.15 | 2.75 | 20.00 |

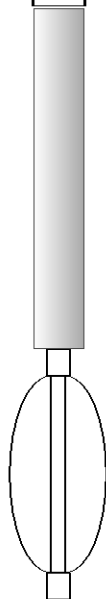
WVF5FT

10.27



GR

4.44



GR-Titan (TTN_1)
275" TTN GR

CENT-TTN2.75

4.02

2.75

77.00

3.00

2.75

5.00

Dataset: 062322drake.db: field/well/run1/pass3.2
Total length: 22.29 ft
Total weight: 214.00 lb
O.D.: 2.75 in

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 125039

CONDITIONS

| | |
|--|--|
| Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102 | OGRID: 330132 |
| | Action Number: 125039 |
| | Action Type: [C-103] Sub. Plugging (C-103P) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|---|----------------|
| mkuehling | Well plugged 6/30/2022 - CBL needs to be submitted separately | 9/23/2022 |