

<b>Well Name:</b> SNEAKY SNAKE 24 13 FED COM	<b>Well Location:</b> T23S / R32E / SEC 24 / SESW / 32.284297 / -103.631665	<b>County or Parish/State:</b> LEA / NM
<b>Well Number:</b> 203H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM86154	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3002553538	<b>Operator:</b> DEVON ENERGY PRODUCTION COMPANY LP	

### Notice of Intent

**Sundry ID:** 2820907

**Type of Submission:** Notice of Intent

**Type of Action:** APD Change

**Date Sundry Submitted:** 11/05/2024

**Time Sundry Submitted:** 02:30

**Date proposed operation will begin:** 11/05/2024

**Procedure Description:** Per S. Akhtarmanesh verbal approval, Devon Energy Production Company L.P. respectfully requests the following proposed production cement remediation: Proposed Updated Remediation Steps: 1. Perform casing integrity test after WOC to achieve 500psi (11 hours) 2. Drill out and perform FIT to 12.0ppg 3. Drill 8.75" vertical section from 5,413' to 9,299' (In the Avalon A) 4. TOOH for 8.75" curve BHA 1. While out of hole, rig up wireline PCE (lubricator) 2. Run CBL on 9.625" intermediate casing to confirm TOC o If CBL indicates annulus isolation in the surface-by-intermediate annulus, Devon will intend to bring cement to surface on the 5.5" production string per existing COA in APD o If CBL indicated annulus isolation in the surface-by-intermediate annulus does not exist, Devon will perform a bradenhead cement job on this annulus to achieve quality cement to surface 5. TIH with 8.75" curve assembly and continue to drill curve / lateral Please see attached drill plan and email correspondence.

### NOI Attachments

#### Procedure Description

RE\_\_EXTERNAL\_\_RE\_\_Request\_for\_Remedial\_Cementing\_on\_Intermediate\_Casing\_\_Sneaky\_Snake\_24  
\_13\_203H\_\_API\_30\_025\_53538\_20241105133850.pdf  
SNEAKY\_SNAKE\_24\_13\_FED\_COM\_203H\_BradenHead\_20241105133629.pdf

Well Name: SNEAKY SNAKE 24 13  
FED COMWell Location: T23S / R32E / SEC 24 /  
SESW / 32.284297 / -103.631665County or Parish/State: LEA /  
NM

Well Number: 203H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM86154

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002553538

Operator: DEVON ENERGY  
PRODUCTION COMPANY LP**Conditions of Approval****Additional**

Sneaky\_Snake\_24\_13\_203H\_Intermediate\_CBL\_20241114154143.pdf

Sneaky\_Snake\_24\_13\_Fed\_Com\_203H\_Sundry\_2820907\_COA\_20241114154143.pdf

MTX24\_2134\_2\_Devon\_Sneaky\_Snake\_24\_13\_Pad\_Inter\_Squeeze\_PT\_14.8ppg\_20241114154143.pdf

**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: REBECCA DEAL

Signed on: NOV 05, 2024 01:36 PM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Professional

Street Address: 333 W SHERIDAN AVE

City: OKLAHOMA CITY

State: OK

Phone: (405) 228-8429

Email address: REBECCA.DEAL@DVN.COM

**Field**

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

**BLM Point of Contact**

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 11/15/2024

Signature: Chris Walls



Form 3160-5  
(June 2019)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS  
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2021

5. Lease Serial No.  
NMNM86154

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well  
☒ Oil Well    ☐ Gas Well    ☐ Other

2. Name of Operator  
DEVON ENERGY PRODUCTION COMPANY LP

3a. Address 333 WEST SHERIDAN AVE, OKLAHOMA CITY, 3b. Phone No. (include area code)  
(405) 235-3611

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)  
SEC 24/T23S/R32E/NMP

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.  
SNEAKY SNAKE 24 13 FED COM/203H

9. API Well No. 3002553538

10. Field and Pool or Exploratory Area  
WC-025 G-05 S253209L/BONE SPRING

11. Country or Parish, State  
LEA/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Per S. Akhtarmanesh verbal approval, Devon Energy Production Company L.P. respectfully requests the following proposed production cement remediation:

Proposed Updated Remediation Steps:

1. Perform casing integrity test after WOC to achieve 500psi (11 hours)
2. Drill out and perform FIT to 12.0ppg
3. Drill 8.75" vertical section from 5,413' to 9,299' (In the Avalon A)
4. TOO H for 8.75" curve BHA

1. While out of hole, rig up wireline PCE (lubricator)
2. Run CBL on 9.625 intermediate casing to confirm TOC

o If CBL indicates annulus isolation in the surface-by-intermediate annulus, Devon will intend to bring cement to surface on the 5.5 production string per existing COA in APD

o If CBL indicated annulus isolation in the surface-by-intermediate annulus does not exist, Devon will perform a bradenhead cement job on this

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)  
REBECCA DEAL / Ph: (405) 228-8429

Title  
Regulatory Professional

Signature (Electronic Submission)

Date  
11/05/2024

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by  
CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Petroleum Engineer

Title

11/15/2024

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

CARLSBAD

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.

(Instructions on page 2)

## GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

## SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

*Item 13*: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

## NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

## Additional Information

### Additional Remarks

annulus to achieve quality cement to surface

5. TIH with 8.75" curve assembly and continue to drill curve / lateral

Please see attached drill plan and email correspondence.

### Location of Well

0. SHL: SESW / 480 FSL / 1614 FWL / TWSP: 23S / RANGE: 32E / SECTION: 24 / LAT: 32.284297 / LONG: -103.631665 ( TVD: 0 feet, MD: 0 feet )

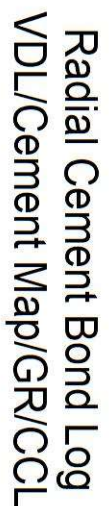
PPP: SESW / 100 FSL / 2305 FWL / TWSP: 23S / RANGE: 32E / SECTION: 24 / LAT: 32.283258 / LONG: -103.629428 ( TVD: 8952 feet, MD: 9020 feet )

PPP: SENW / 2642 FSL / 2306 FWL / TWSP: 23S / RANGE: 32E / SECTION: 24 / LAT: 32.290246 / LONG: -103.629433 ( TVD: 9600 feet, MD: 12200 feet )

PPP: SESW / 0 FSL / 2305 FWL / TWSP: 23S / RANGE: 32E / SECTION: 13 / LAT: 32.2975 / LONG: -103.629437 ( TVD: 9600 feet, MD: 14800 feet )

BHL: NENW / 20 FNL / 2305 FWL / TWSP: 23S / RANGE: 32E / SECTION: 13 / LAT: 32.311963 / LONG: -103.629447 ( TVD: 9600 feet, MD: 19908 feet )

CONFIDENTIAL



Company	Devon Oil And Gas				
Well	Sneaky Snake 21-13 FC #203H				
Field					
County	Lea	State		New Mexico	
Location	480' FSL & 1614' FWL			Other Services	
SEC.	24	TWP.	23S	RGE.	32E
Permanent Datum	Ground Level		Elevation 3716'		
Log Measured From	Kelly Bushing		26'		
Drilling Measured From	KB				
			K.B. 3742'		D.F. 3716'
			G.L. 3716'		

<<< Fold Here >>>

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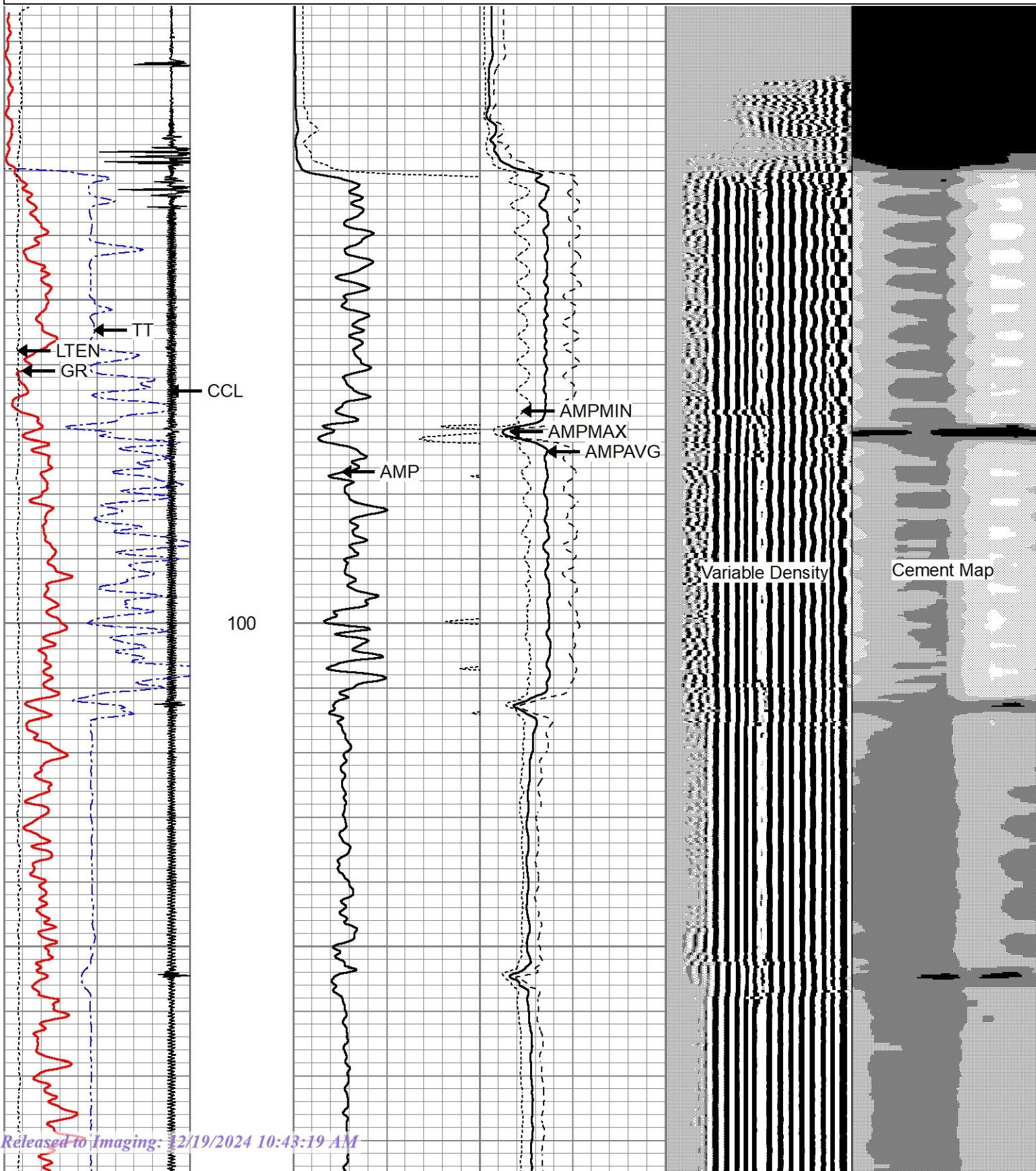
Comments

**Krown**  
wireline service  
leased to Imaging: 12/19/2024

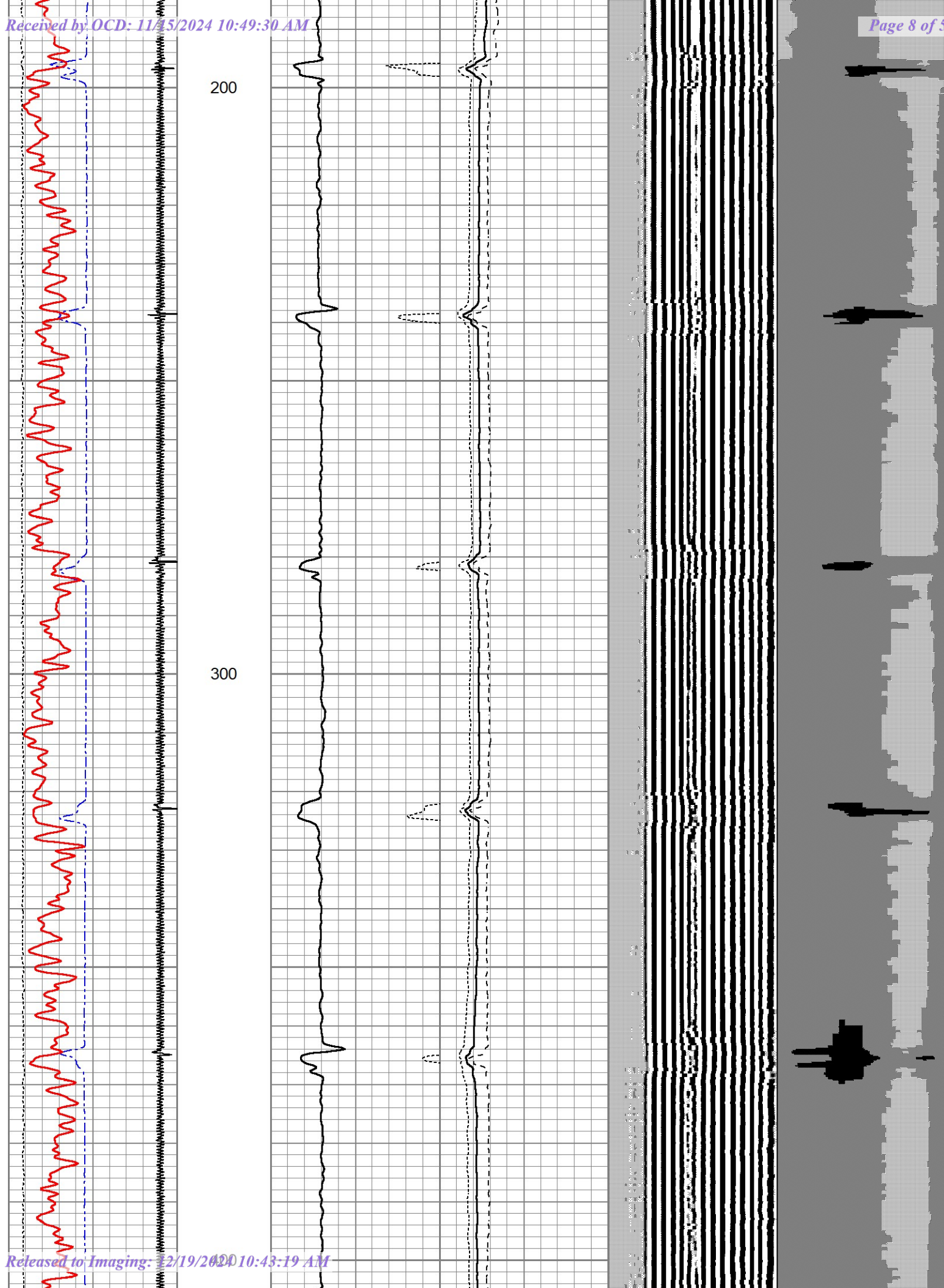
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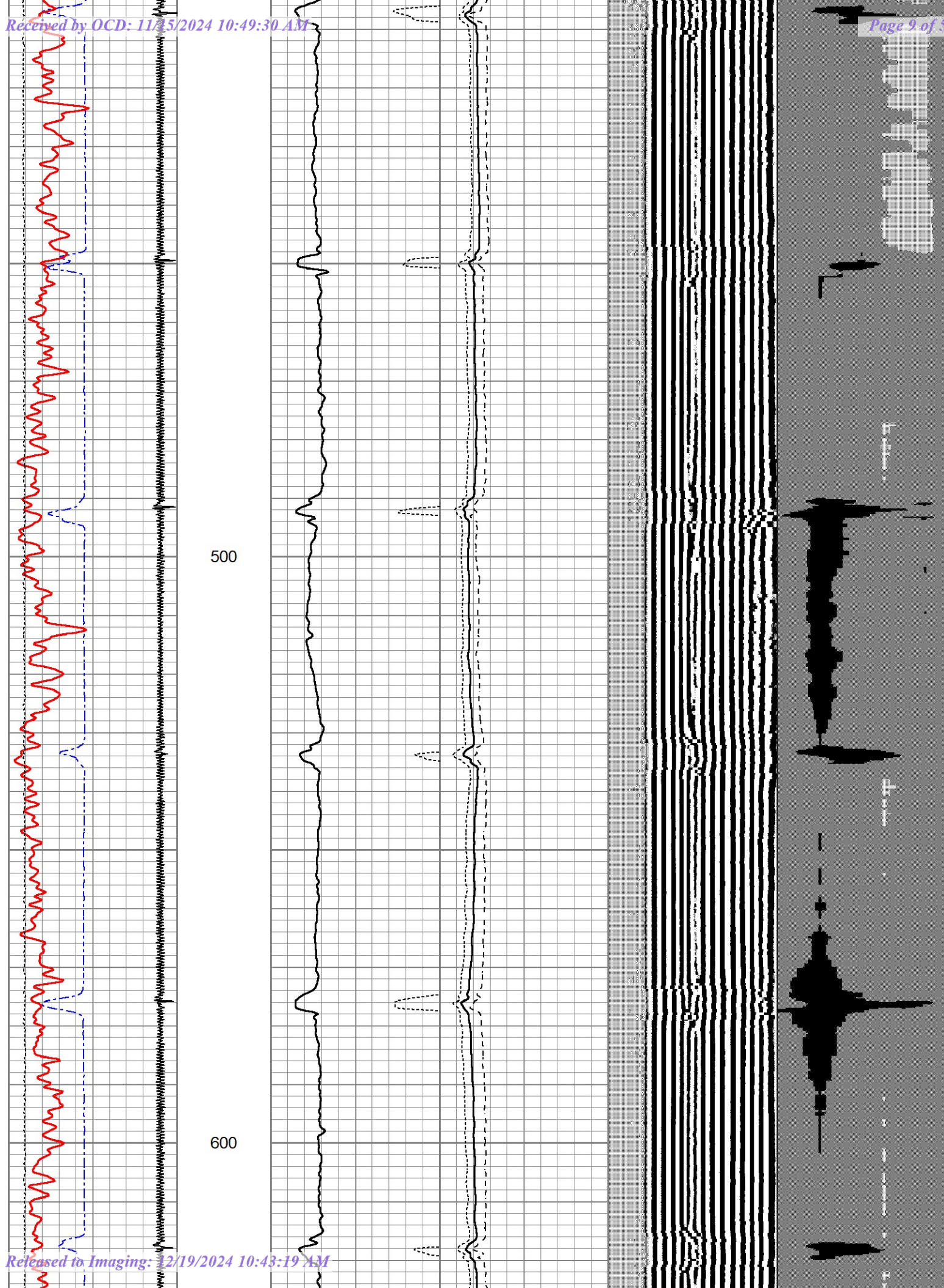
400	TT (usec)	200	0	AMP (mV)	100	-5	AMPAVG	150	200	VDL (usec)	1200	1	Cement Map	8
-9	CCL	1	0	AMPx5 (mV)	20	-5	AMPMAX	150						
0	GR (GAPI)	150				-5	AMPMIN	150						
0	LTEN (lb)	4000												



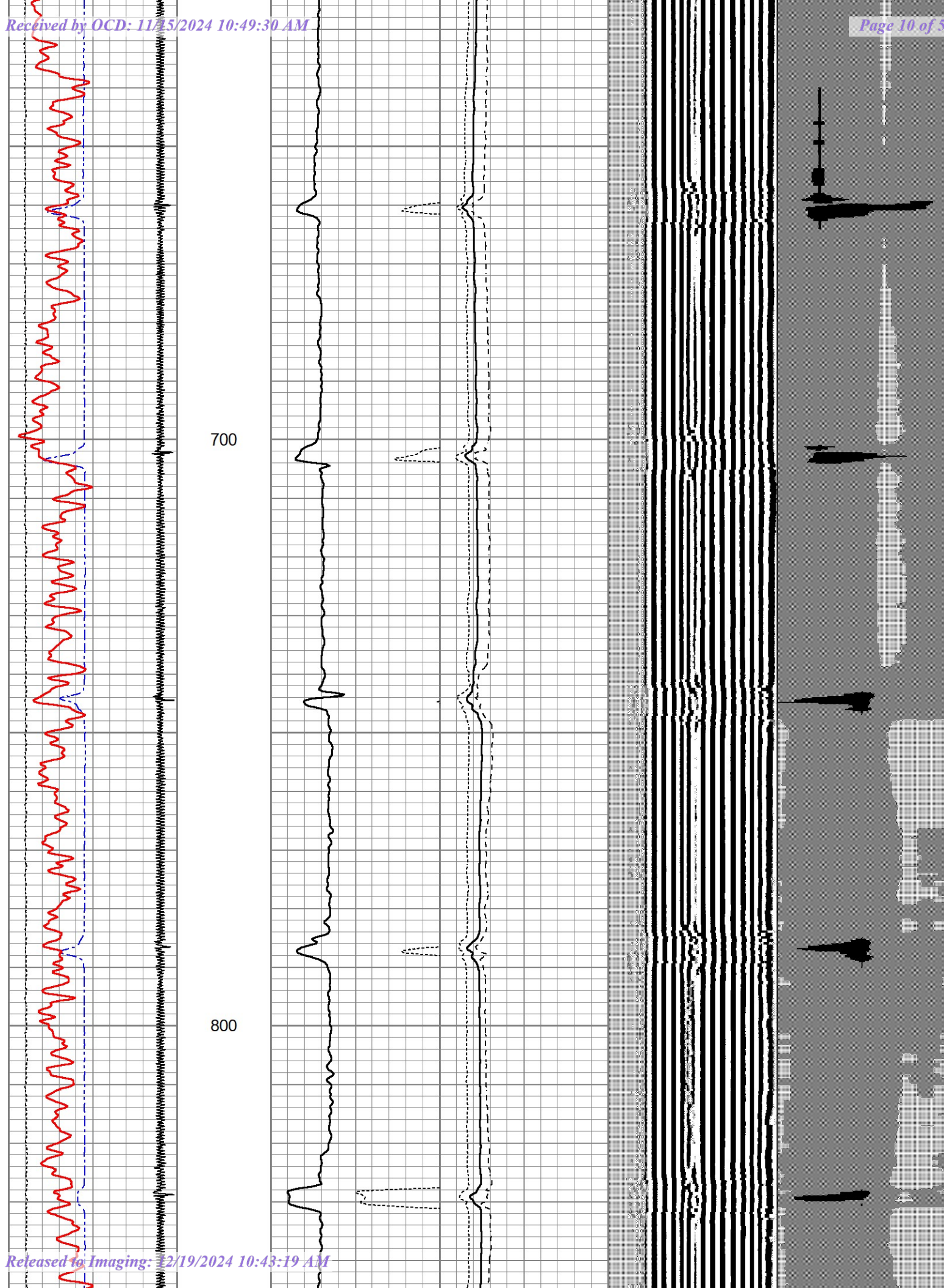




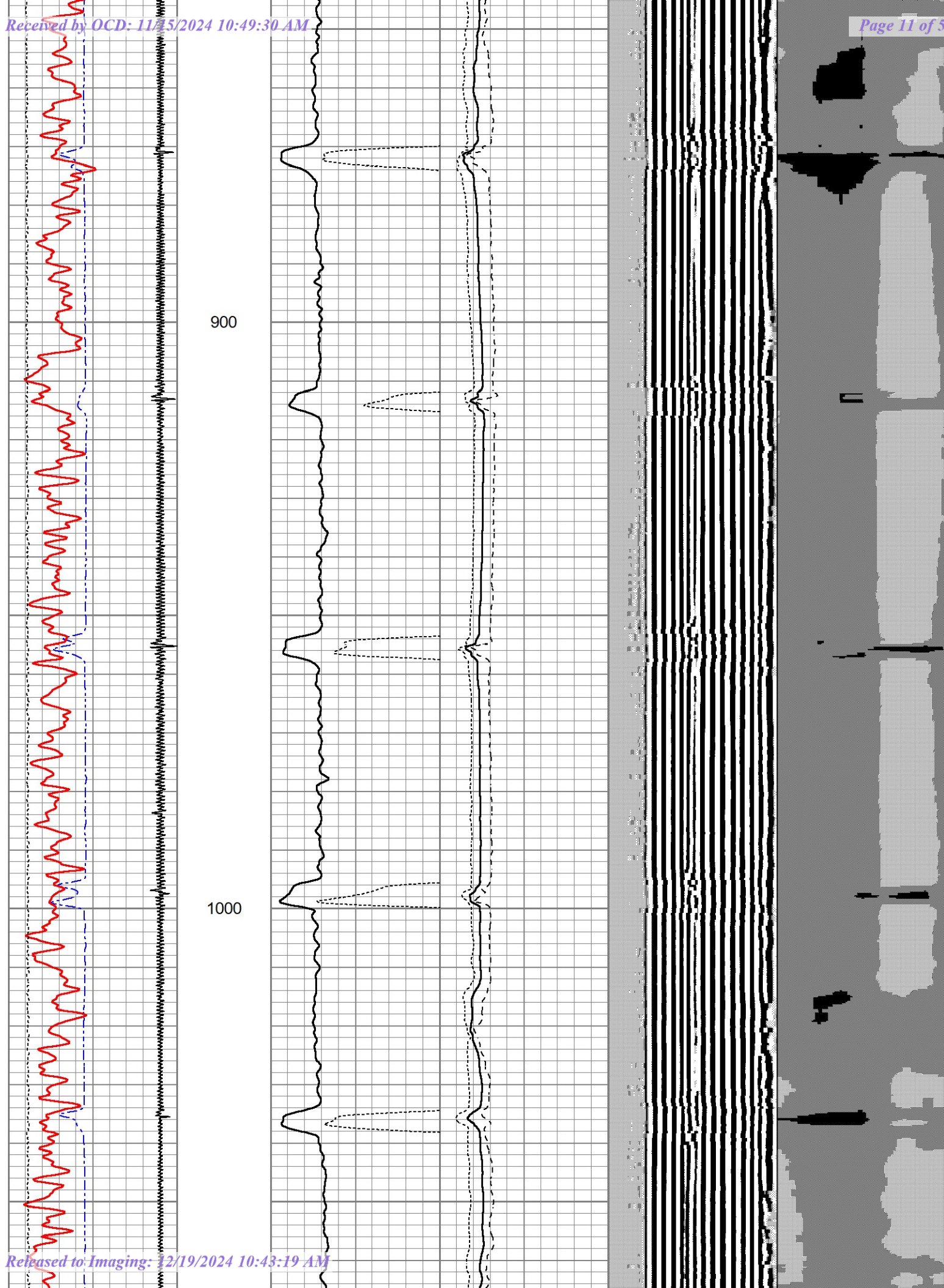




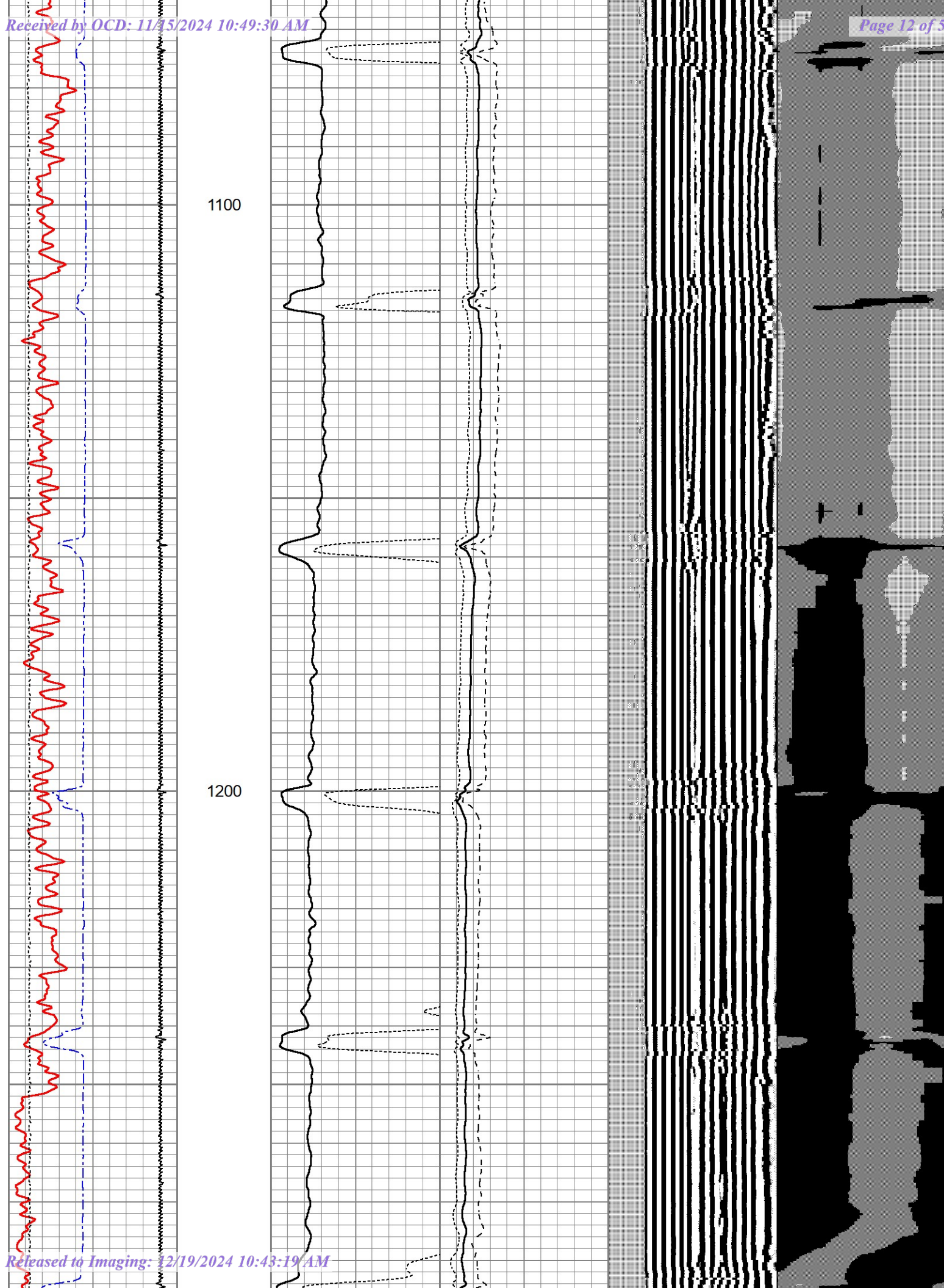




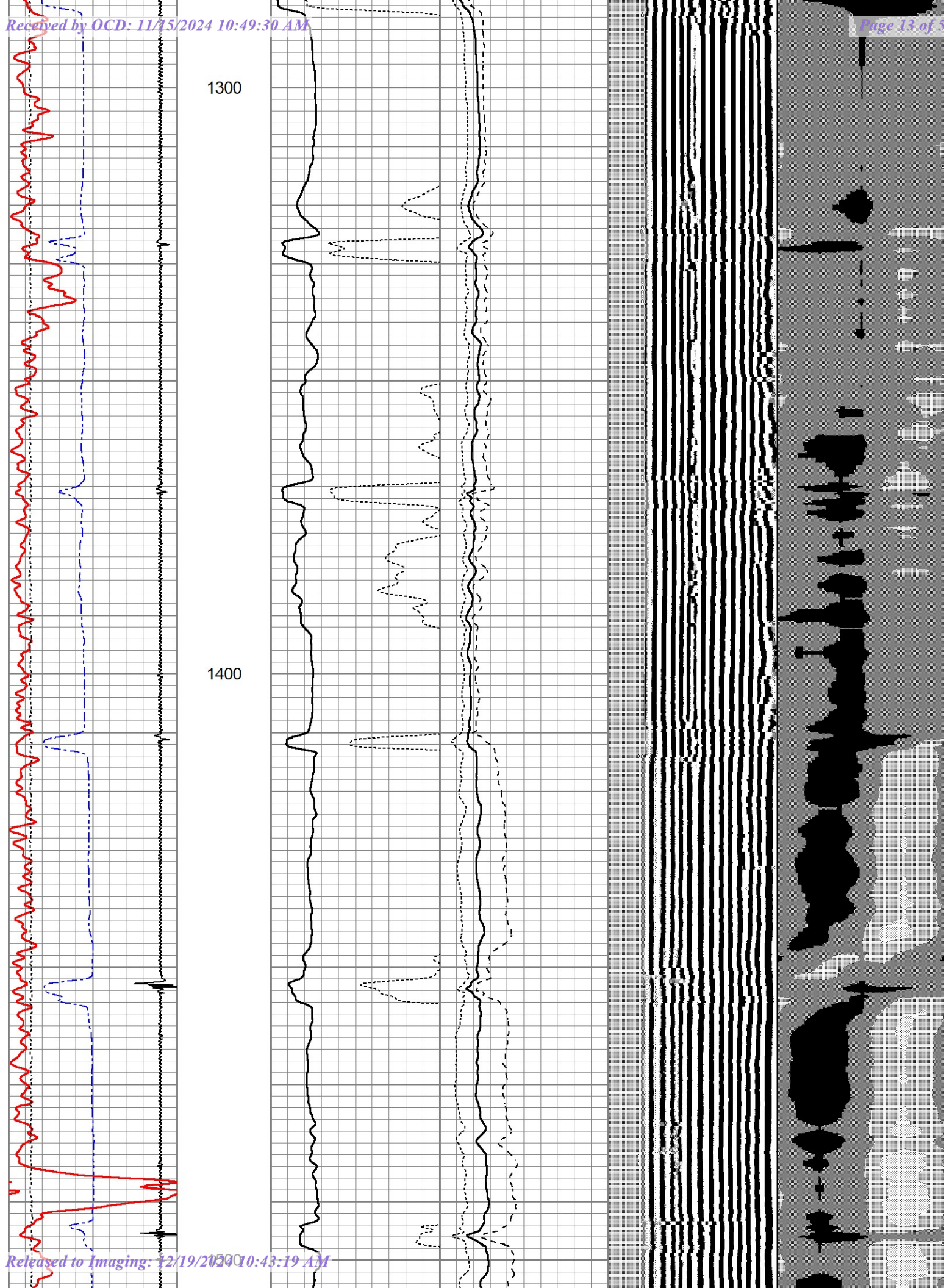




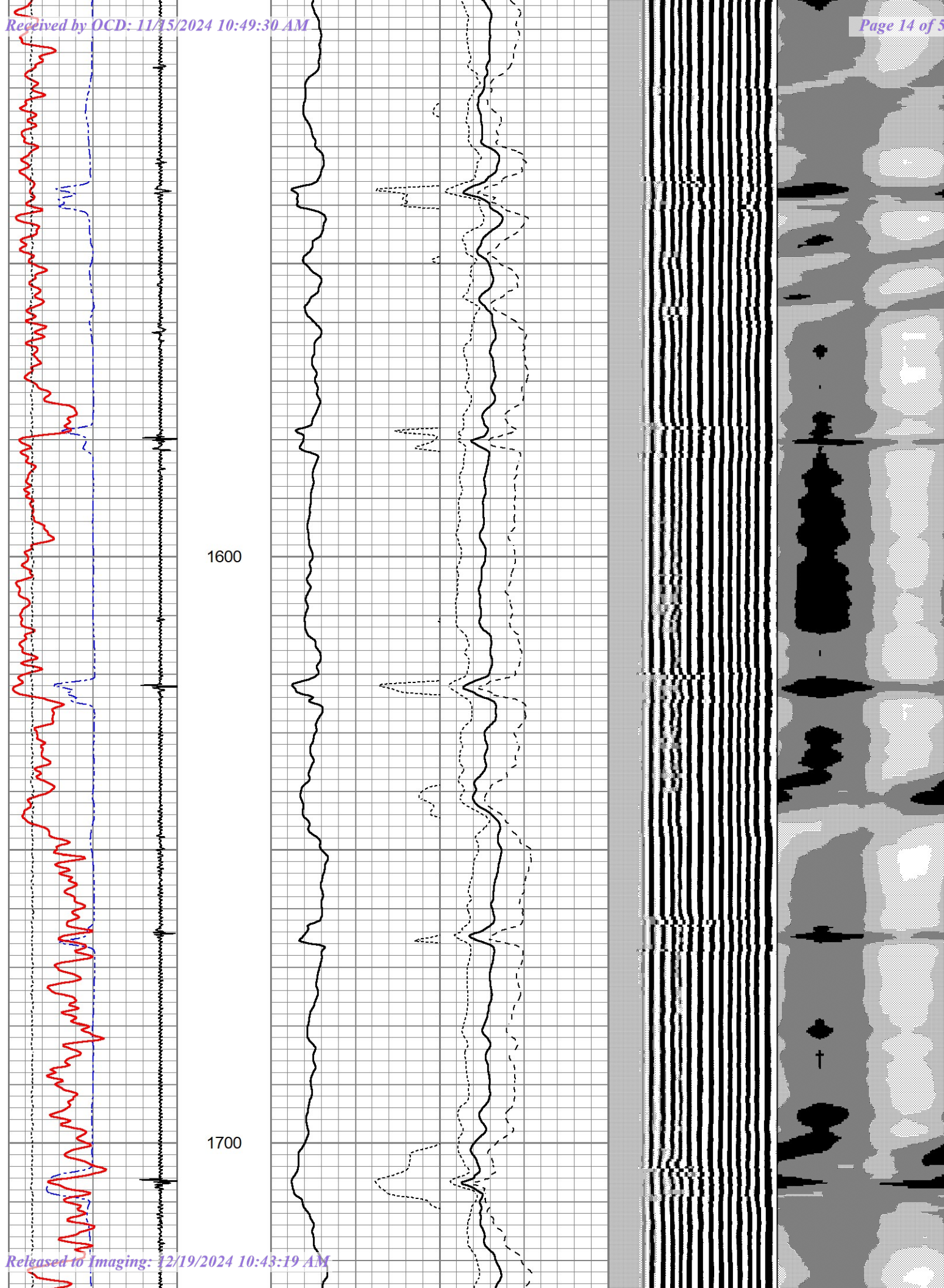




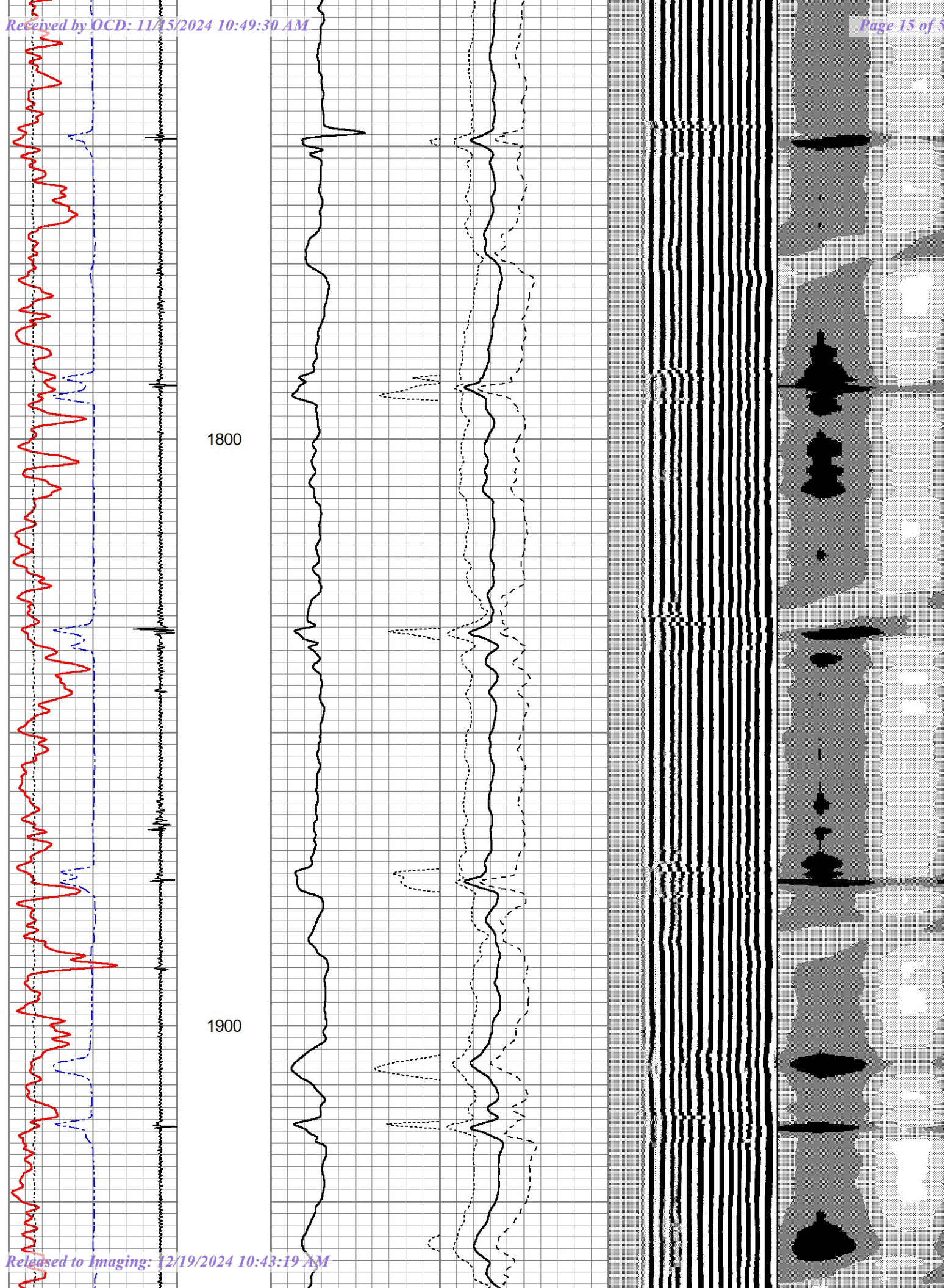




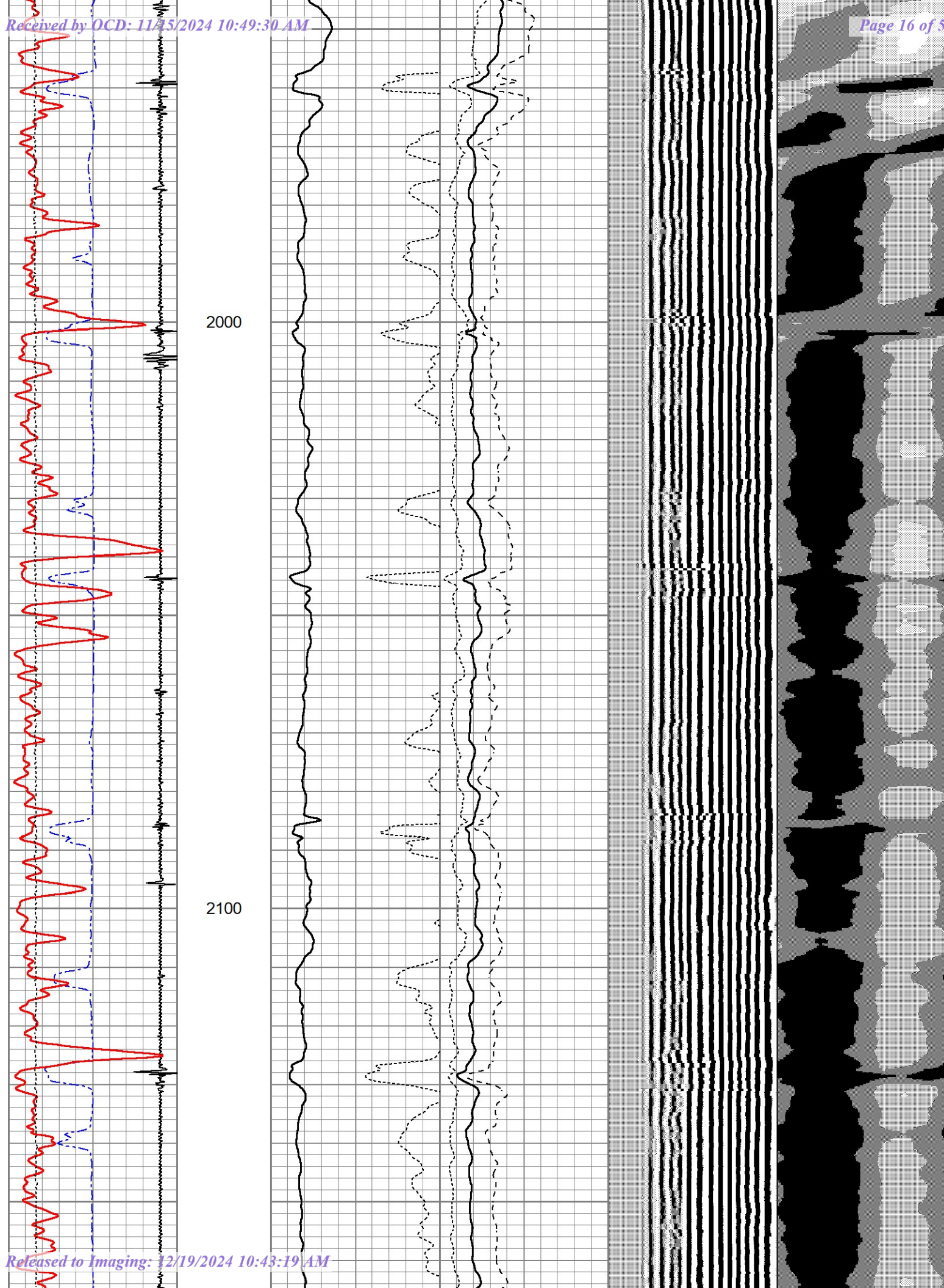








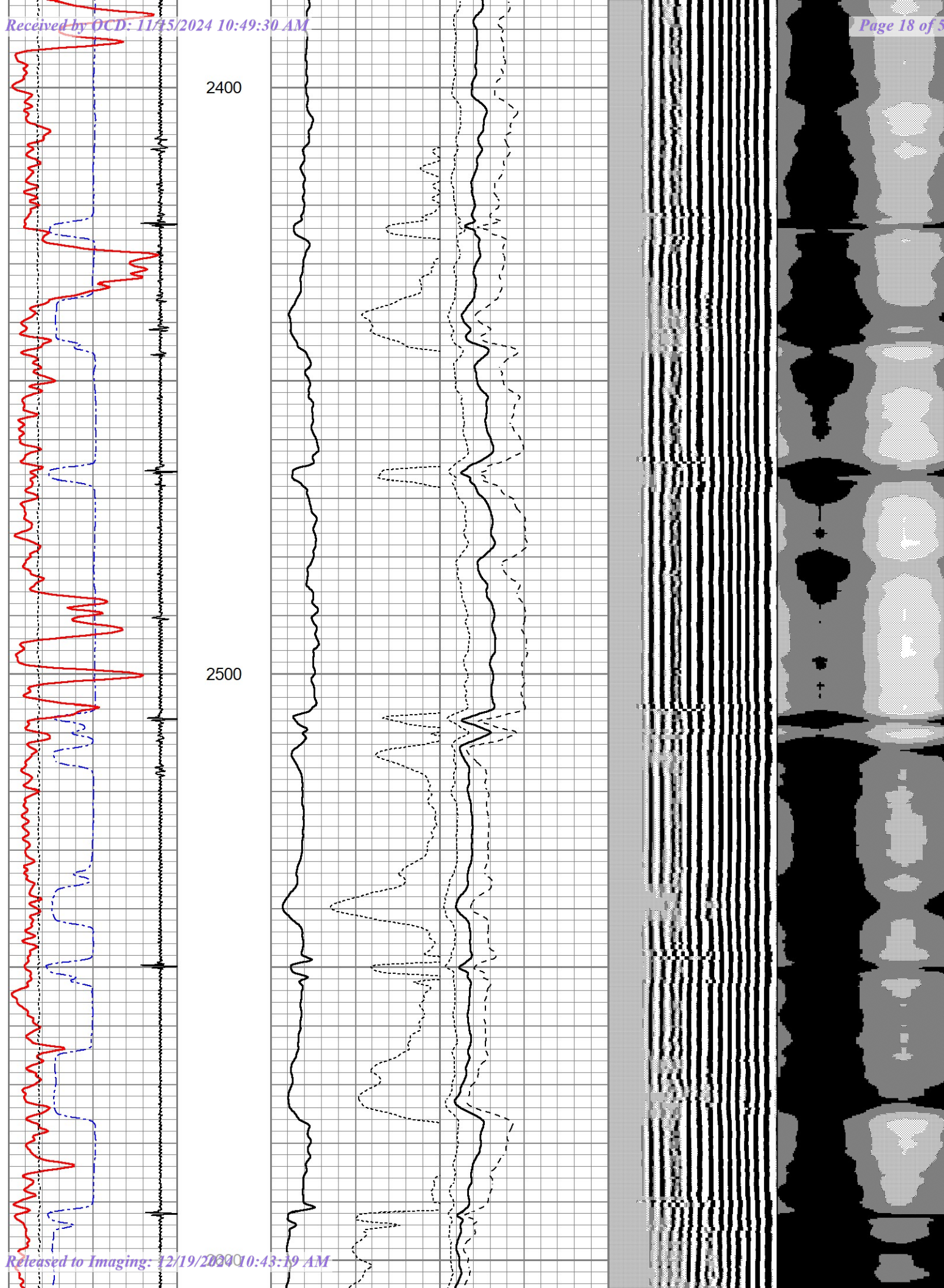




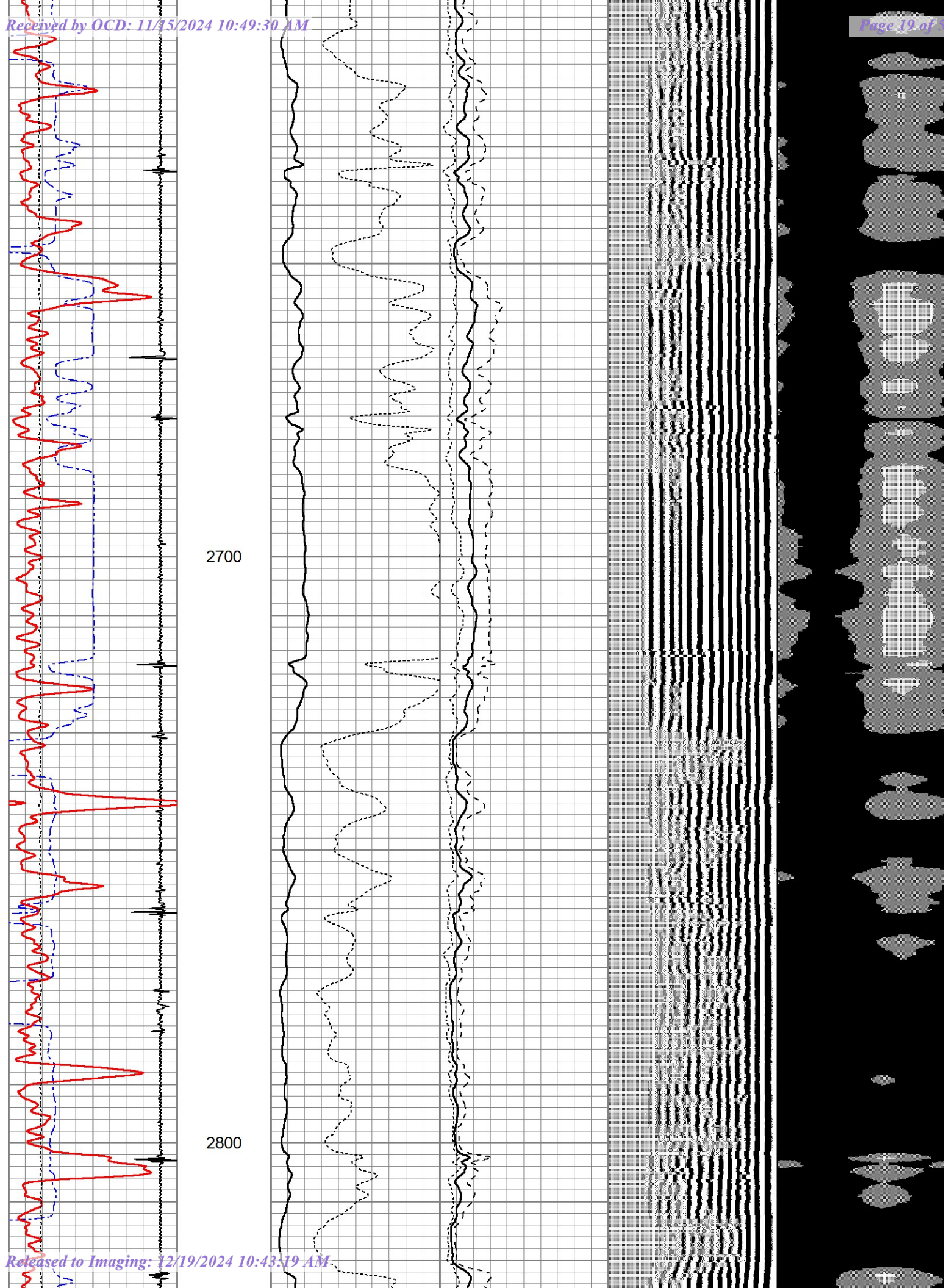




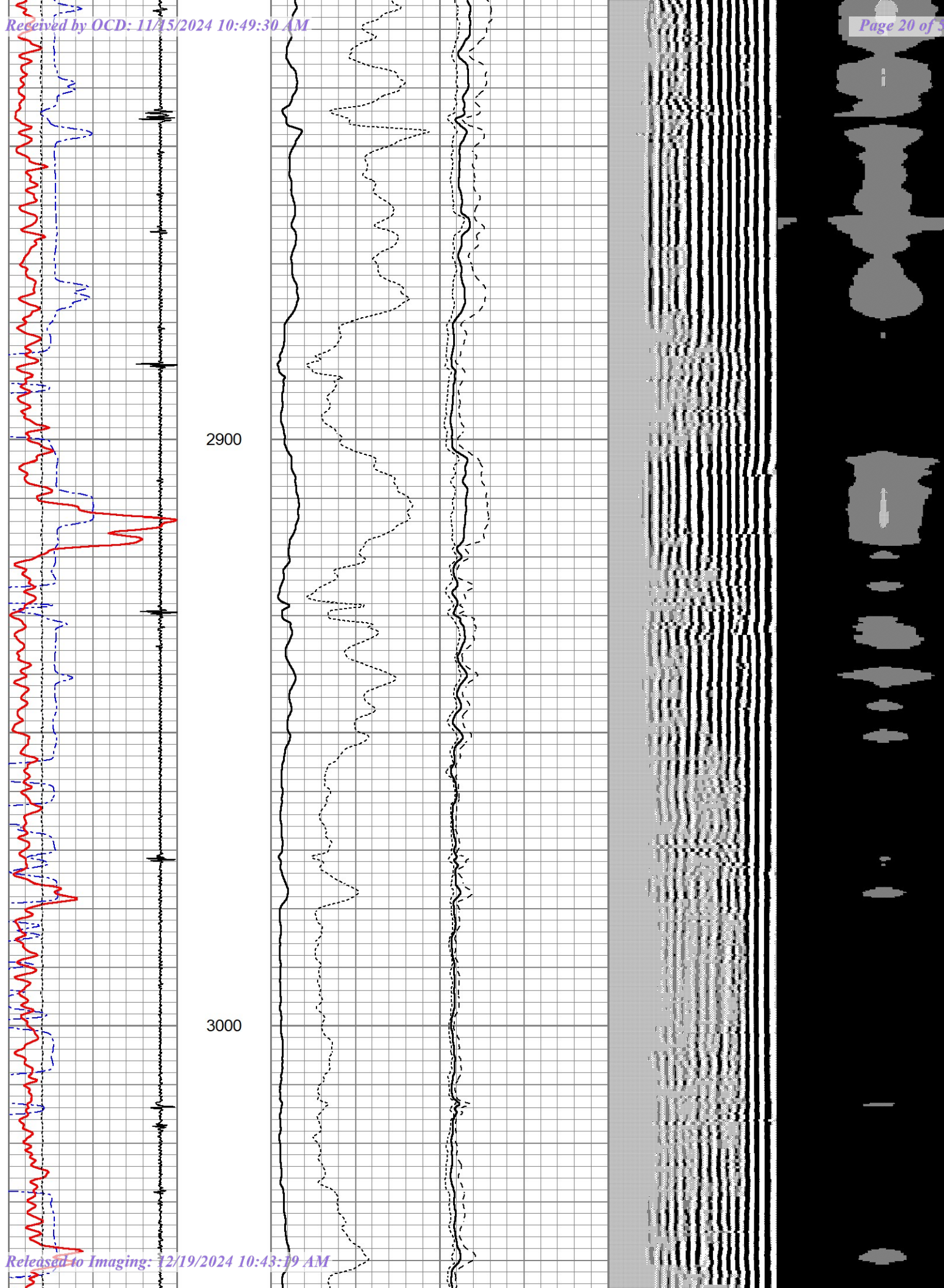




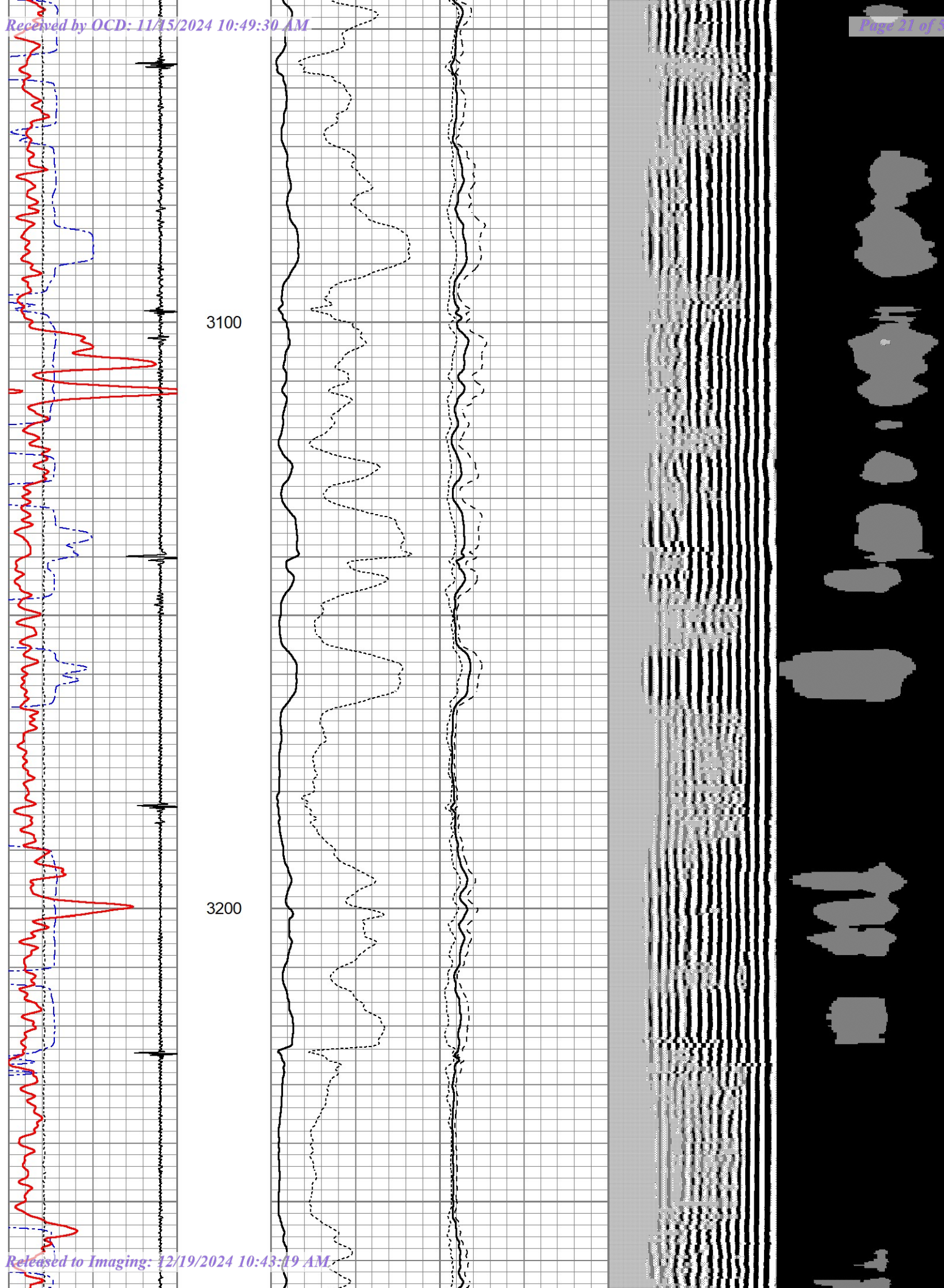




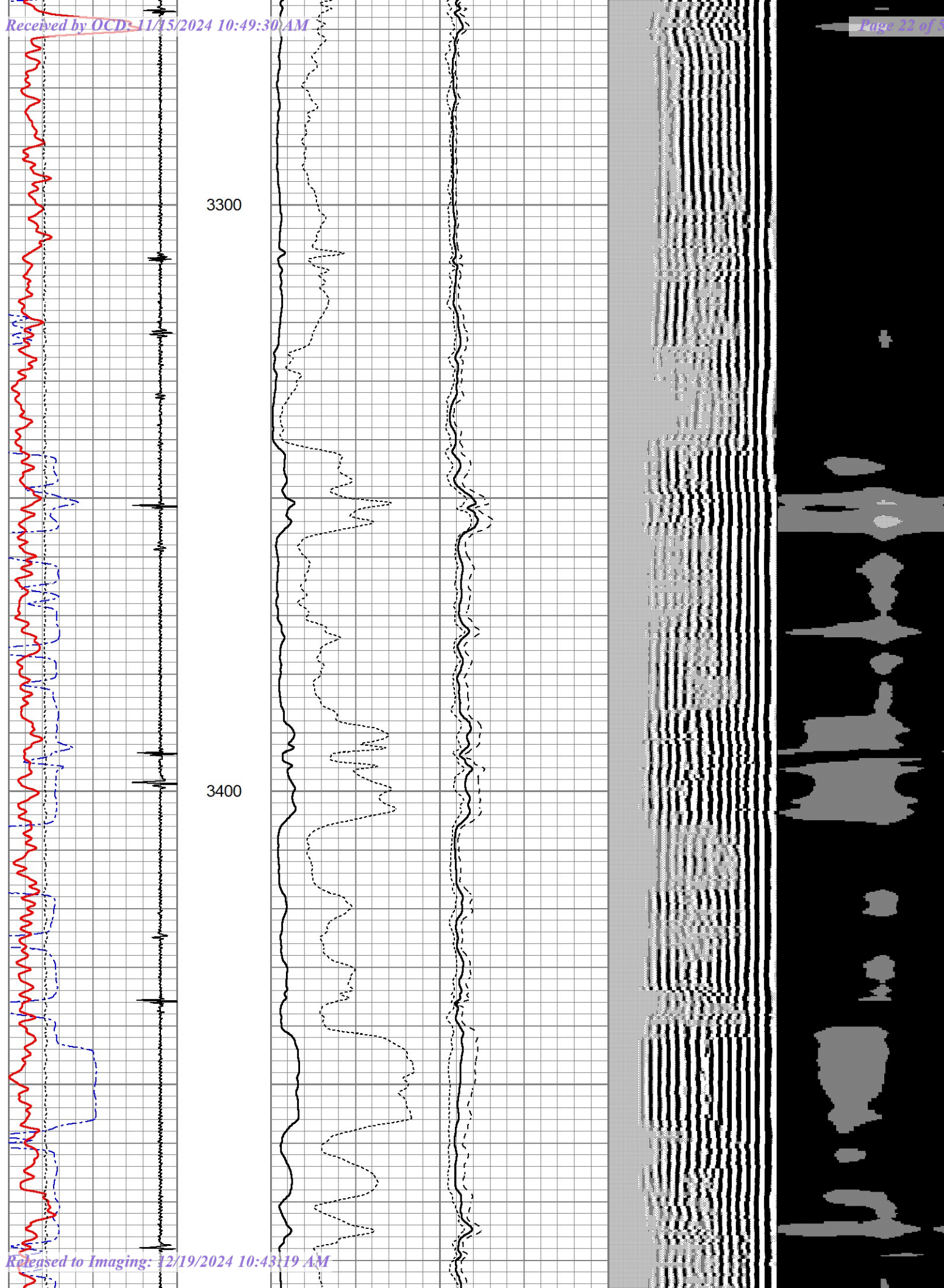




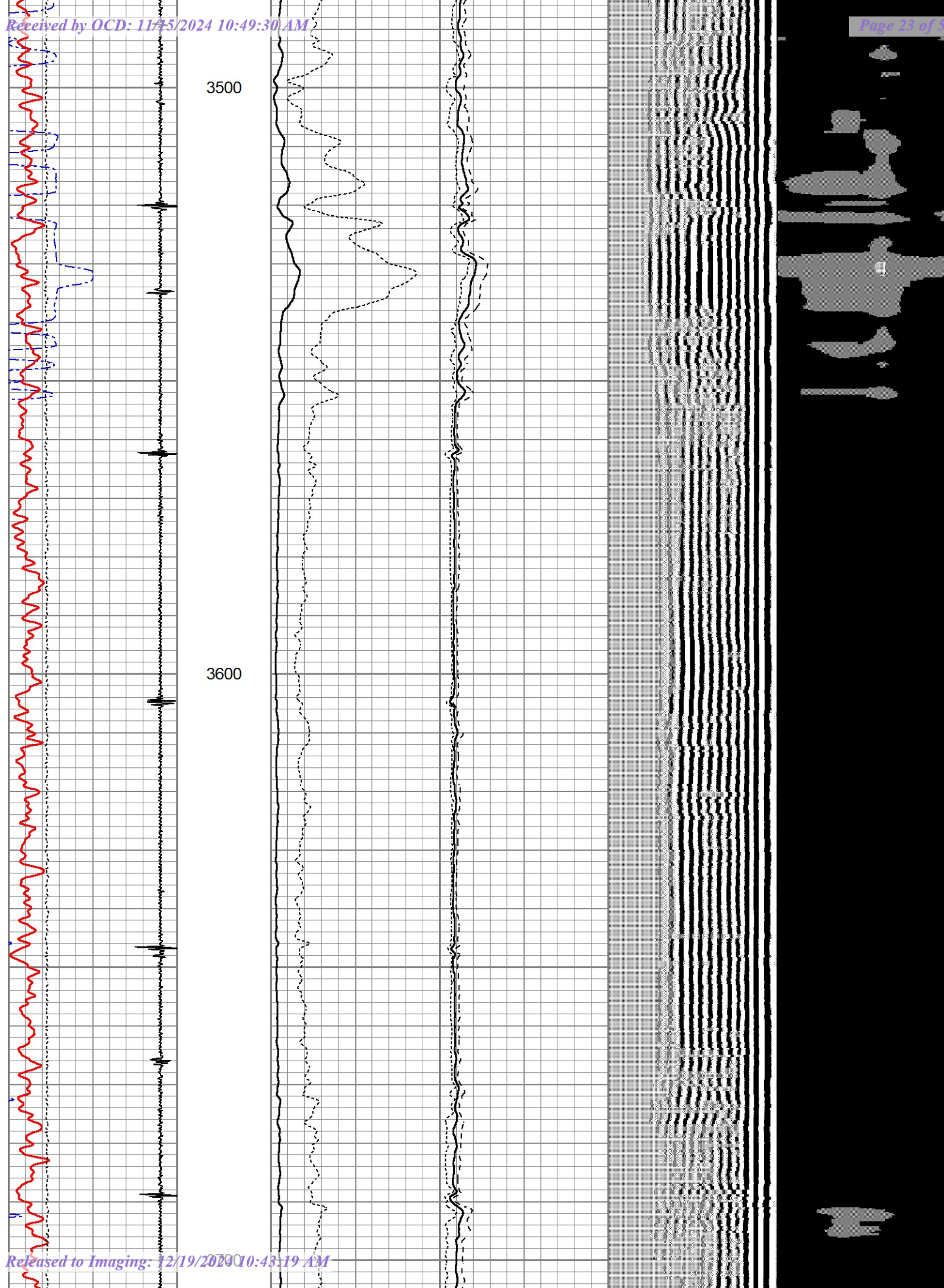




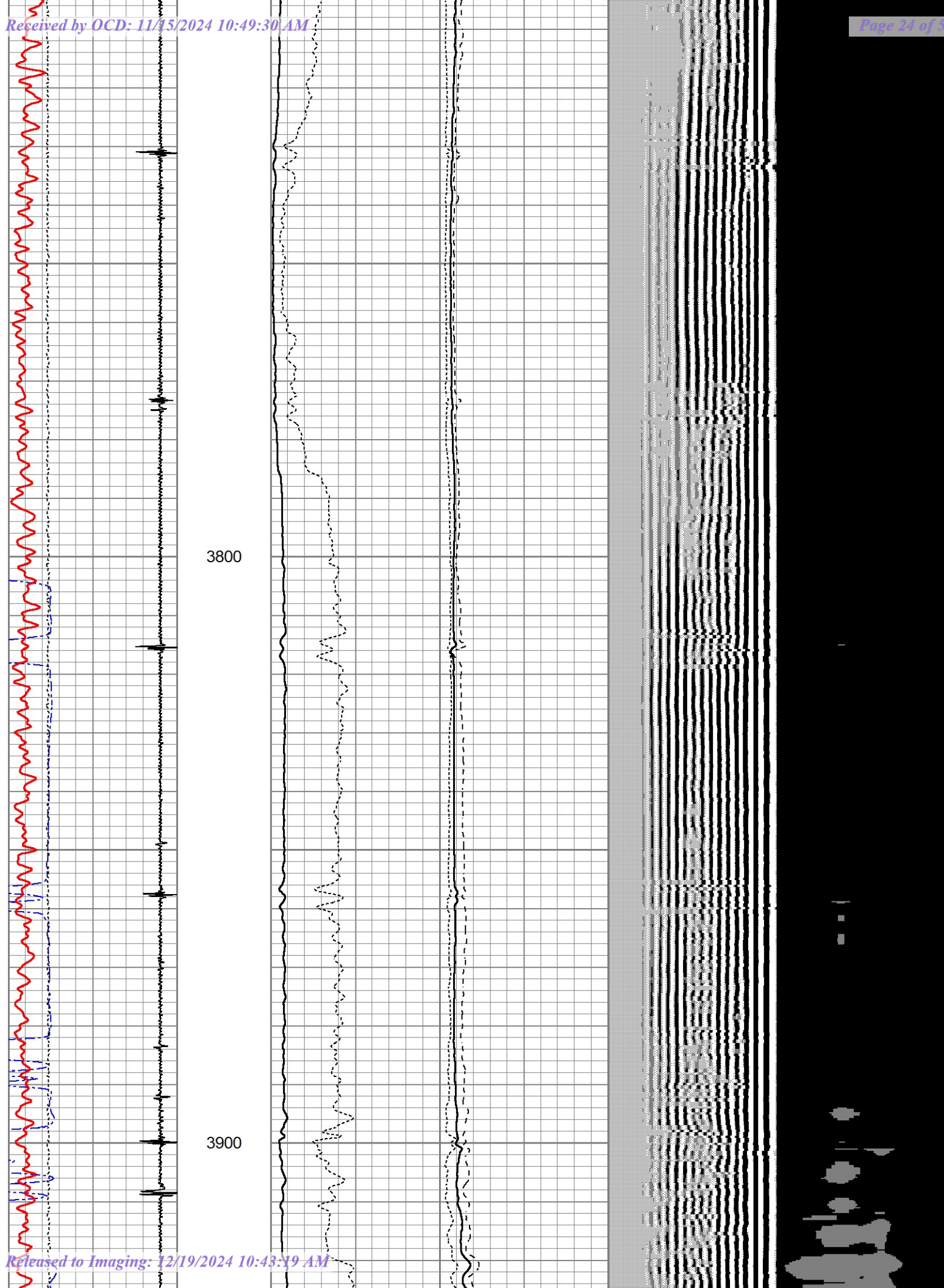












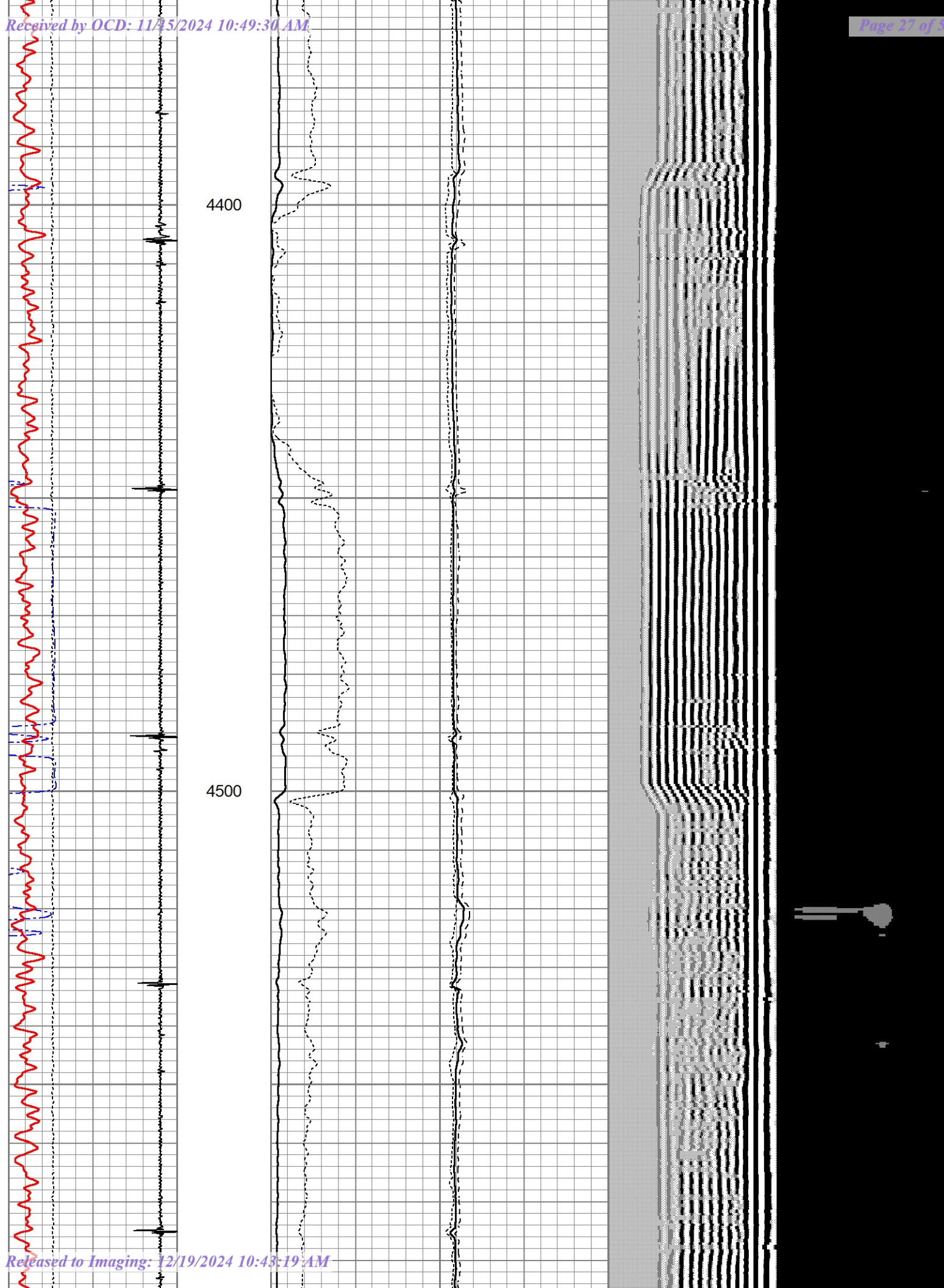




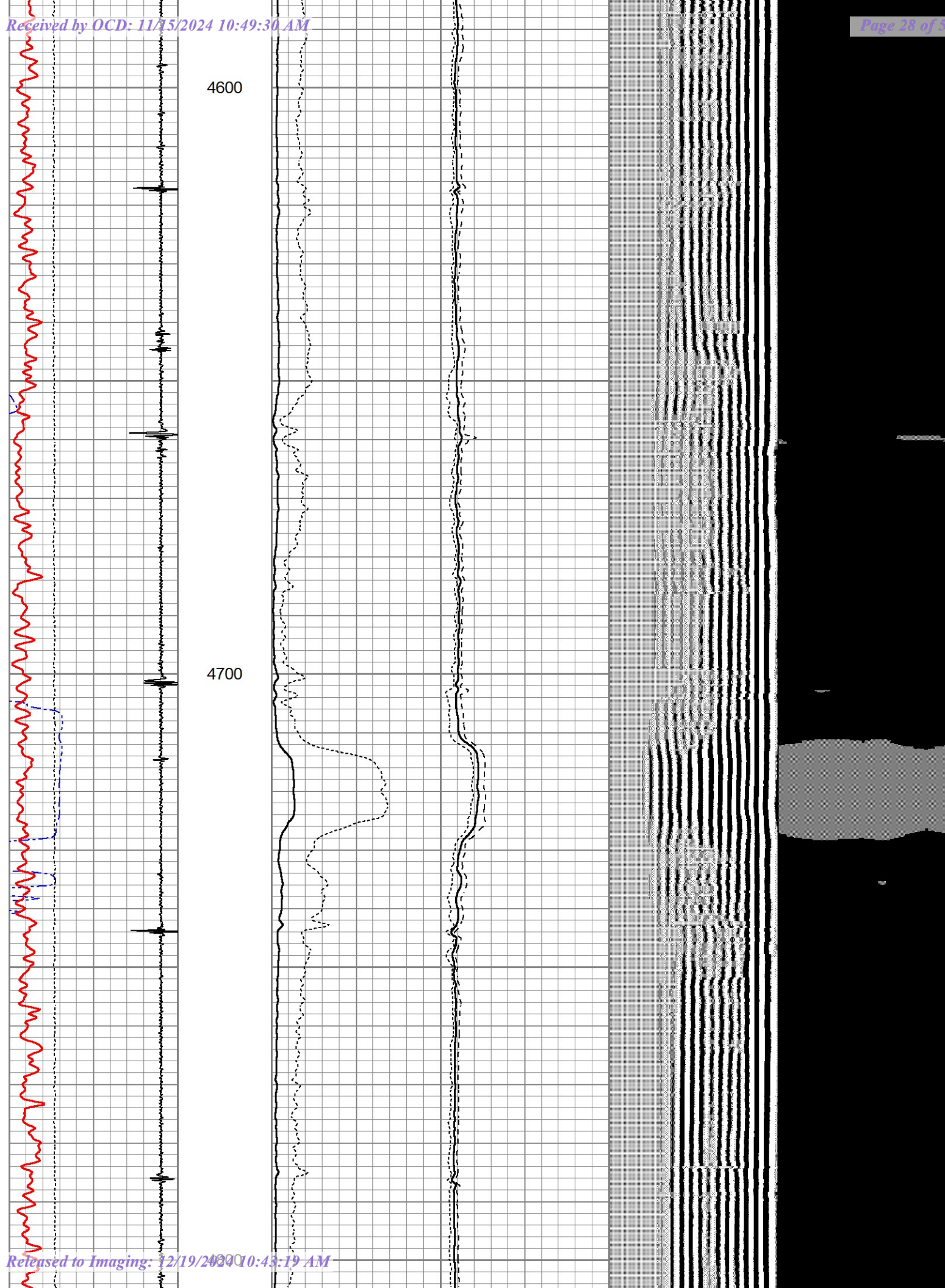




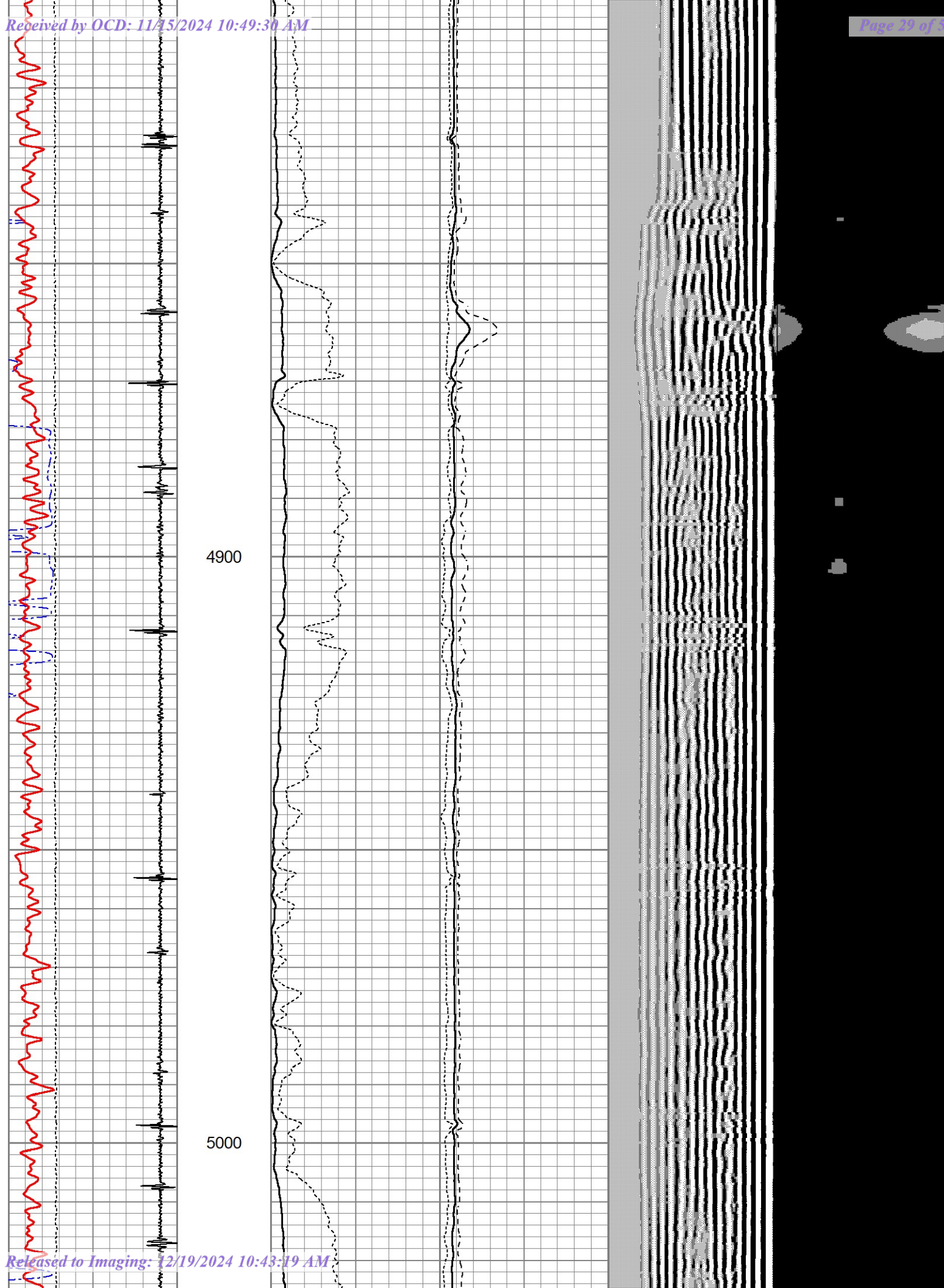




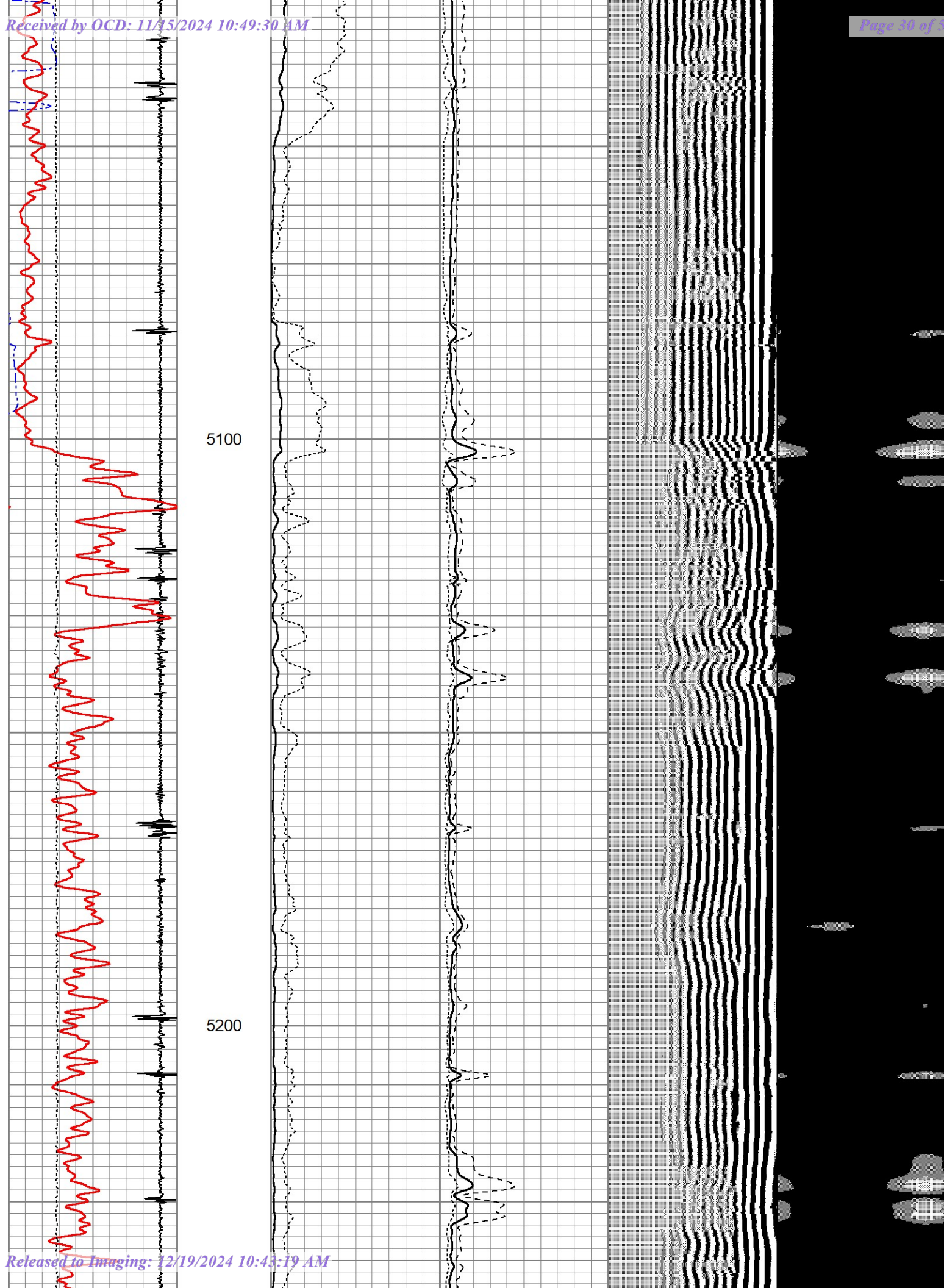




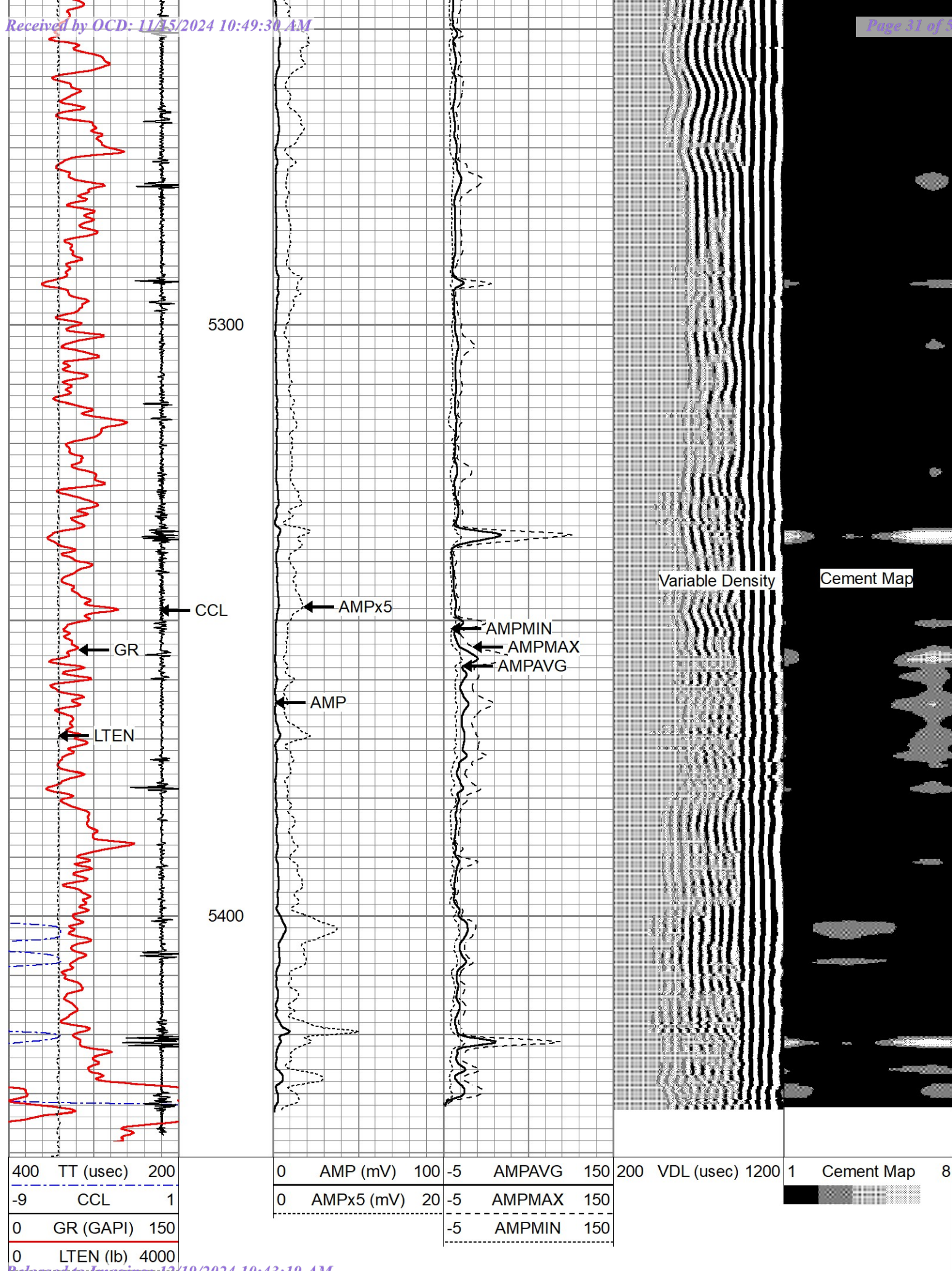












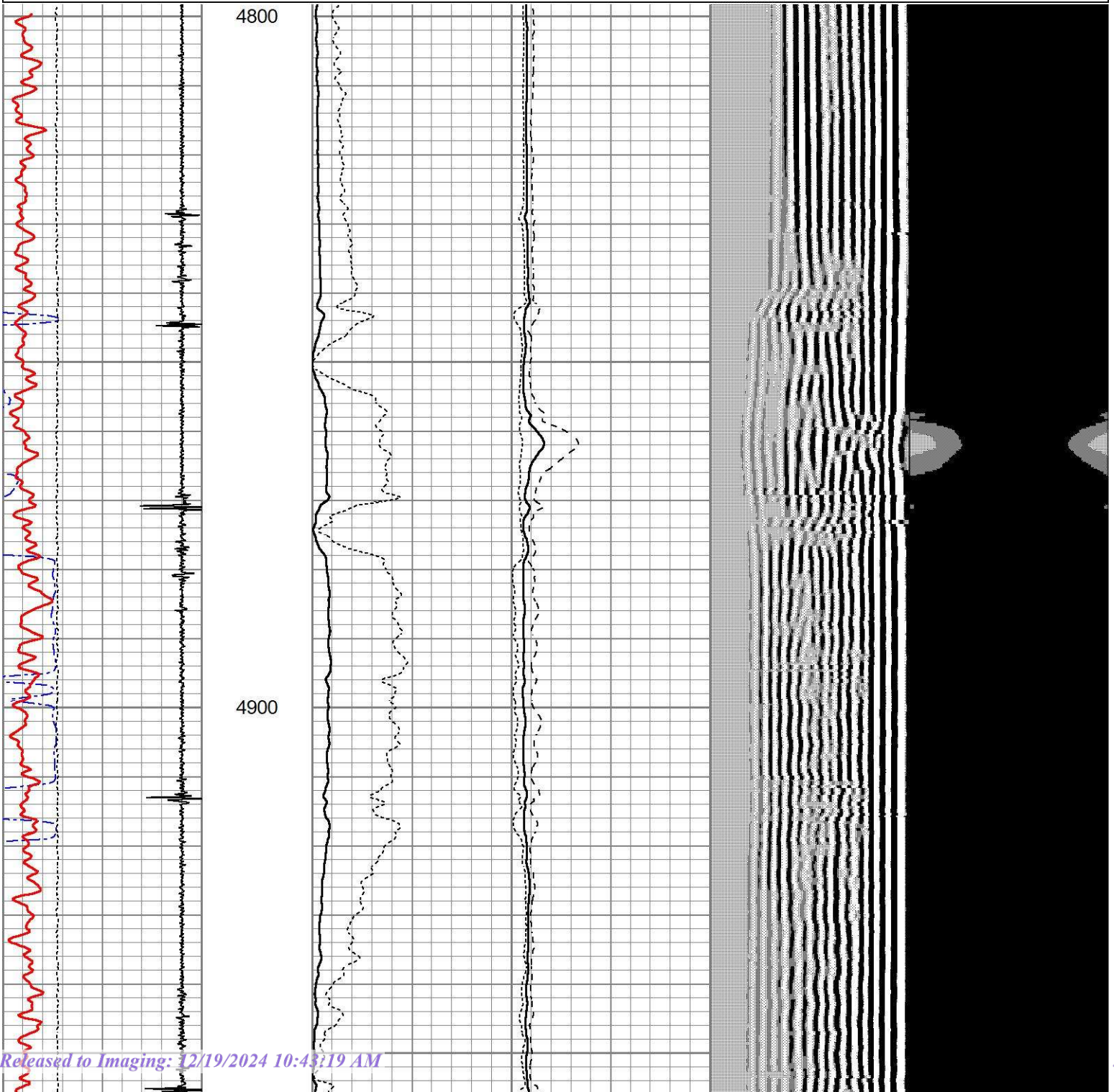


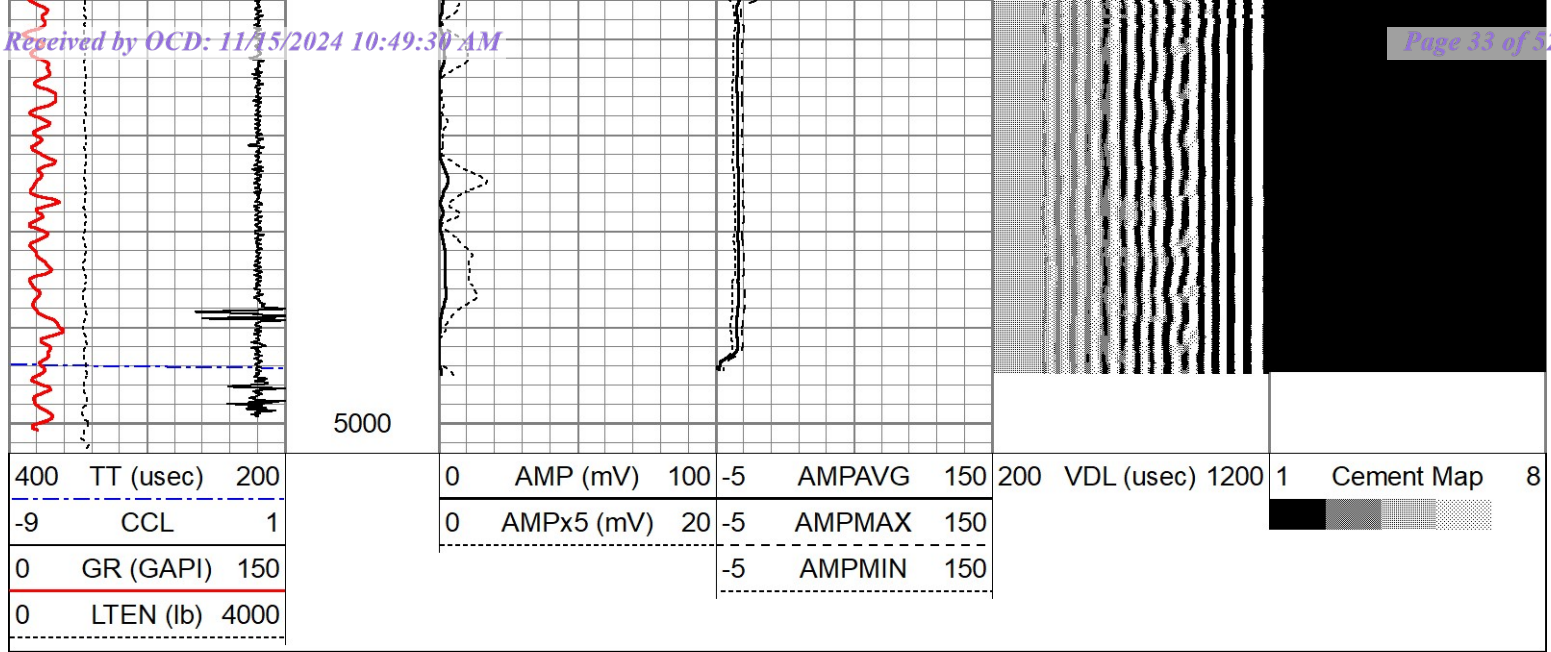


# Repeat Pass

Database File sneakysnake2413fc203h.db  
Dataset Pathname pass5  
Presentation Format bprcbl  
Dataset Creation Wed Oct 23 23:49:37 2024  
Charted by Depth in Feet scaled 1:240

400	TT (usec)	200	0	AMP (mV)	100	-5	AMPAVG	150	200	VDL (usec)	1200	1	Cement Map	8
-9	CCL	1	0	AMPx5 (mV)	20	-5	AMPMAX	150						
0	GR (GAPI)	150				-5	AMPMIN	150						
0	LTEN (lb)	4000												





Calibration Report		
Database File	sneakysnake2413fc203h.db	
Dataset Pathname	pass7	
Dataset Creation	Wed Oct 23 23:54:44 2024	

Gamma Ray Calibration Report		
Serial Number:	SDS	
Tool Model:	SDSGR	
Performed:	Sat Oct 19 08:26:39 2024	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Segmented Cement Bond Log Calibration Report		
Serial Number:	1234	
Tool Model:	275RIB	
Calibration Casing Diameter:	8.625	in
Calibration Depth:	3579.139	ft

Master Calibration, performed Wed Oct 23 23:38:24 2024:						
	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	0.295	1.000	54.795	75.000	1.000
CAL	0.362	0.560				
5'	0.000	0.166	1.000	54.795	324.516	0.929
SUM						
S1	0.019	1.028	0.000	100.000	99.136	-1.908
S2	0.017	1.278	0.000	100.000	79.281	-1.346
S3	0.084	1.392	0.000	100.000	76.462	-6.440
S4	0.089	1.532	0.000	100.000	69.344	-6.205
S5	0.034	1.536	0.000	100.000	66.565	-2.246
S6	0.018	1.059	0.000	100.000	96.120	-1.767
S7	0.042	0.920	0.000	100.000	113.934	-4.773
S8	0.049	0.860	0.000	100.000	123.197	-5.976



Internal Reference Calibration, performed (Not Performed):



	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.362	0.560	1.000	0.000

Air Zero Calibration, performed Fri Oct 11 06:51:23 2024:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero		Offset	
3'	0.000		0.000		0.000	
5'	0.000		0.000		0.000	
SUM						
S1	0.000		0.000		0.000	
S2	0.000		0.000		0.000	
S3	0.000		0.000		0.000	
S4	0.000		0.000		0.000	
S5	0.000		0.000		0.000	
S6	0.000		0.000		0.000	
S7	0.000		0.000		0.000	
S8	0.000		0.000		0.000	

Temperature Calibration Report

Serial Number:	1234		
Tool Model:	275RIB		
Performed:	Thu Oct 12 09:43:27 2006		
	Reference		Reading
Low Reference:	75.00 degF		300.00 usec
High Reference:	400.00 degF		1282.00usec
Gain:	0.33		
Offset:	0.00		
Delta Spacing	1		

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
TEMP	10.88					
WVFS8	9.92					
WVFS7	9.92					
WVFS6	9.92					
WVFS5	9.92		275CTEKSECWTWSLCANS-275RIB (1234) 2 3/4" (R.I.B.) TOOL 3FT, 5FT and 8EA RIB SIGNALS 420 DEG "F" @ 20K PSI With Sliding	9.33	2.75	50.00



WVFS4	9.92					
WVFS2	9.92					
WVFS1	9.92					
WVF3FT	9.08					
WVFSYNC	8.83					
WVFCAL	8.83					
WVF5FT	8.25					
WVFTEMP	4.50					
CCL	3.75		CCL-SDSCCL (SDS) CCL For Testing	1.50	2.75	10.00
GR	0.50		GR-SDSGR (SDS) GR for Testing	3.00	2.75	20.00
Dataset: sneakysnake2413fc203h.db: field/well/run1/pass7 Total length: 13.83 ft Total weight: 80.00 lb O.D.: 2.75 in						



## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	DEVON ENERGY PRODUCTION COMPANY LP
<b>WELL NAME &amp; NO.:</b>	SNEAKY SNAKE 24 13 FED COM 203H
<b>APD ID:</b>	10400094511
<b>LOCATION:</b>	Section 24, T23S, R32E. NMP.
<b>COUNTY:</b>	Lea County, New Mexico ▼

*Changes approved through engineering via **Sundry 2820907** on 11/14/2024. Any previous COAs not addressed within the updated COAs still apply.*

COA

H <sub>2</sub> S	<input type="radio"/> No		<input checked="" type="radio"/> Yes	
<b>Potash / WIPP</b>	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-Q	<input type="checkbox"/> Open Annulus <input type="checkbox"/> WIPP
<b>Cave / Karst</b>	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High	<input type="radio"/> Critical
<b>Wellhead</b>	<input type="radio"/> Conventional	<input type="radio"/> Multibowl	<input checked="" type="radio"/> Both	<input type="radio"/> Diverter
<b>Cementing</b>	<input checked="" type="checkbox"/> Primary Squeeze	<input type="checkbox"/> Cont. Squeeze	<input type="checkbox"/> EchoMeter	<input checked="" type="checkbox"/> DV Tool
<b>Special Req</b>	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
<b>Waste Prev.</b>	<input type="radio"/> Self-Certification	<input type="radio"/> Waste Min. Plan	<input checked="" type="radio"/> APD Submitted prior to 06/10/2024	
<b>Additional Language</b>	<input checked="" type="checkbox"/> Flex Hose	<input type="checkbox"/> Casing Clearance	<input type="checkbox"/> Pilot Hole	<input checked="" type="checkbox"/> Break Testing
	<input type="checkbox"/> Four-String	<input checked="" type="checkbox"/> Offline Cementing	<input checked="" type="checkbox"/> Fluid-Filled	

**SEE ORIGINAL COA FOR ALL OTHER REQUIREMENTS.**

Cement on the intermediate casing did not circulate to surface. Cement on the production casing must come to the surface.

### A. CASING

3. Operator has proposed to set **5-1/2** inch production casing at approximately **19,953 ft.** (9,600 ft. TVD). The minimum required fill of cement behind the **5-1/2** inch production casing is:

**Option 1 (Single Stage):** **Cement to surface.** If cement does not circulate, contact the appropriate BLM office. Remedial cementing shall be implemented to bring cement to surface.

**Option 2 (Two-Stage):** Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. First stage: Operator will cement with intent to reach above the top of the Brushy Canyon, approximately at 8,297 ft.



- b. Second stage: Operator will perform bradenhead squeeze and top-out. **Cement to surface.** If cement does not reach surface, the appropriate BLM office shall be notified.

**Note:** Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

**Note:** Operator has proposed to pump down **9-5/8" X 5-1/2"** annulus after primary cementing stage. Operator must run a CBL from depth of 9,600 ft. to surface. Submit results to the BLM.

No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. If cement does not reach surface, the appropriate BLM office shall be notified. Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

## GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

### Contact Lea County Petroleum Engineering Inspection Staff:

- Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - i. Notify the BLM when moving in and removing the Spudder Rig.
    - ii. Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2<sup>nd</sup> Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary

table; the area immediately above the substructure on which the draw works are located, this does not include the doghouse or stairway area.

3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

#### A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger



diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

## **B. PRESSURE CONTROL**

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - iii. Manufacturer representative shall install the test plug for the initial BOP test.
  - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
  - v. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches

500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (Only applies to single stage cement jobs, prior to the cement setting up.)
- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. The test shall be run on a 5000-psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one-hour chart. A circular chart shall have a maximum 2-hour clock. If a twelve hour or twenty-four-hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low-pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

### C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.



**D. WASTE MATERIAL AND FLUIDS**

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

**SA 11/14/2024**



Cement Test Report

**File:** MTX24-2134-2, Inter Squeeze

**Date:** October 25, 2024

**District:** Midland, TX

**Report Author:** Neal Johnson

**Client:** Devon

**Well:** Sneaky Snake 24-13 Pad

**Rig:** HP 393

**County:** Lea, NM

Well Conditions		Pilot Test	Slurry Specs	
Casing size:	9.625 "			
Job Type:	Intermediate Casing	Cement Class:	Class C	
Total MD:	2500 ft	Cement Vendor:	GCC - Odessa	
TVD:	2500 ft			
BHST:	103 °F	Density:	14.8 PPG	
BHCT:	93 °F	Yield:	1.36 cuft/sk	
BHP:	1170 psi	Total Fresh Water:	6.45 gal/sk	

Slurry Composition

NCM-912 + 3% NAC-110				
Code	Lot Number	Concentration		Function
NCM-912	Bulk	94	LB/SK	Class C Cement
NAC-110	CC2160124	3	%BWOC	Accelerator
Water Source	Fresh Water	6.45	GAL/SK	

Thickening Time

Consistency (Bc)	Time*
30 Bc	0:59
50 Bc	1:19
70 Bc	1:33

Compressive Strength

Time (hr)	Strength (psi)	Temp (F)
1:23	50	103°F
4:30	500	103°F
12:51	1200	103°F
15:59	1384	103°F
24:00	1750	103°F

Rheology

(rpm)	80°F	93°F
300	37	89
200	32	78
100	25	68
60	23	65
30	20	59
6	12.65	30.35
3	5.7	23.95
10sec Gel strength	6.8	19.4
10 min Gel Strength	21.6	233
Rheological Model	PV=26.3[cP], YP=14.3 [lb/100ft^2]	PV=55.1[cP], YP=43.3 [lb/100ft^2]
Bingham Plastic		

Free Water

0 [mL/250mL], 0% in 2 hrs at 93 [F]
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## Cement Test Report

**File:** MTX24-2134-2, Inter Squeeze  
**Date:** October 25, 2024  
**District:** Midland, TX  
**Lab Tech:** Neal Johnson

**Client:** Devon  
**Well:** Sneaky Snake 24-13 Pad  
**Rig:** HP 393  
**County:** Lea, NM

## Well Conditions

**Casing size:** 9.625 "  
**Job Type:** Intermediate Casing  
**Total MD:** 2500 ft  
**TVD:** 2500 ft  
**BHST:** 103 °F  
**BHCT:** 93 °F  
**BHP:** 1170 psi

## Pilot Test

**Cement Class:**  
**Cement Vendor:**

## Slurry Specs

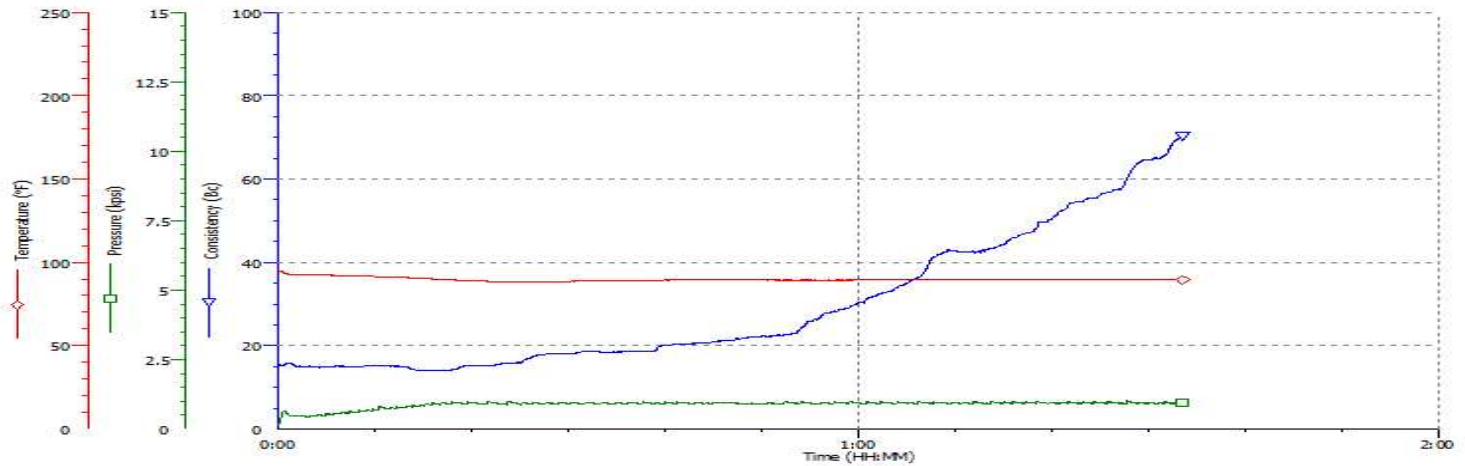
**Class C**  
**GCC - Odessa**

**Density:** 14.8 PPG  
**Yield:** 1.36 cuft/sk  
**Total Fresh Water:** 6.45 gal/sk

BHST: 96°F  
 BHCT: 89°F

MTX24-1104-8 Topout

30Bc: 0:59:48  
 50Bc: 1:19:45  
 70Bc: 1:33:30



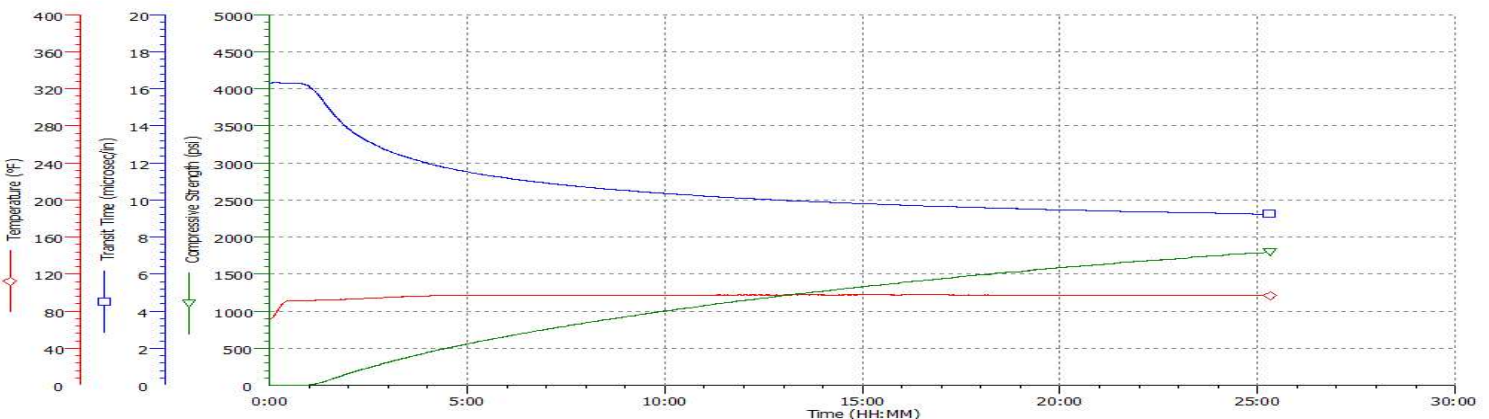
**NexTier**  
 2601 E I20  
 Midland, TX 79706

Chandler 7322 - C8 - 685  
 Test Performed By: IC  
 Job Type: Intermediate Casing  
 Cement Type: NCM-912  
 Additives: 3% NAC-110  
 Density: 14.8 PPG  
 MTX24-1104-8 Topout  
 Compressive strength type B (more than 14 lb/gal)

Test Start: 6/30/2024 8:48:02 AM  
 Test Stop: 6/30/2024 10:19:32 AM

BHST: 96°F  
 BHCT: 89°F

50psi @ 1:23:30  
 100psi @ 1:40:00  
 500psi @ 4:30:00  
 1750 psi @ 24:00  
 N/A @ 48:00  
 N/A @ 72:00



**NexTier**  
 2601 E I20  
 Midland, TX 79706

Instrument #: 06 - 753-R  
 Test Performed By: O. Nwandu  
 Job Type: Intermediate  
 Cement: NCM-912  
 Additives: 3% NAC-110  
 Density: 14.8 PPG

Test Start: 7/1/2024 2:28:23 AM  
 Test Stop: 7/2/2024 3:47:53 AM



Cement Test Report

**File:** MTX24-2134-2, Inter Squeeze  
**Date:** October 25, 2024  
**District:** Midland, TX  
**Lab Tech:** Neal Johnson

**Client:** Devon  
**Well:** Sneaky Snake 24-13 Pad  
**Rig:** HP 393  
**County:** Lea, NM

Well Conditions		Pilot Test	Slurry Specs
Casing size:	9.625 "		
Job Type:	Intermediate Casing	Cement Class:	Class C
Total MD:	2500 ft	Cement Vendor:	GCC - Odessa
TVD:	2500 ft		
BHST:	103 °F	Density:	14.8 PPG
BHCT:	93 °F	Yield:	1.36 cuft/sk
BHP:	1170 psi	Total Fresh Water:	6.45 gal/sk

Comments

All tests conducted according to API RP 10B-2.

Ambient rheologies were obtained directly after blending to simulate surface mixability. Rheologies preconditioned at BHCT on atmospheric consistometer, and tested with an OFITE model 900 rheometer, S/N: 5140980000005 with R1B1 F1.0 configuration.

Free Water preconditioned at BHCT on atmospheric consistometer and tested at 0° angle.

Thickening Time conducted on Chandler model 7322 HPHT Consistometer, S/N: 685. Mix water temperature of 100°F for Thickening Time test.

Compressive Strengths conducted on Chandler model 4262 UCA S/N: 753R.

\*\*\*Tests referenced from MTX24-1104-8 include Thickening Time. Rheologies. Free Water. UCA.\*\*\*

This data is supplied for informational purposes, and NexTier Completion Solutions makes no guarantees or warranties, either expressed or implied, with respect to accuracy or use of these data and interpretations.



**From:** [Akhtarmanesh, Saman](#)  
**To:** [Milligan, Dallas](#)  
**Subject:** RE: [EXTERNAL] RE: Request for Remedial Cementing on Intermediate Casing - Sneaky Snake 24-13 203H - API 30-025-53538  
**Date:** Tuesday, October 22, 2024 8:36:36 AM

---

Dallas,  
I agree with the plan as proposed.

To clarify, in the case of existence of annulus isolation between 13-3/8" and 9-5/8" casing, submit a NOI drilling operation sundry with CBL attached indicating TOC behind the 9-5/8" intermediate casing and request approval for bradenhead squeeze job on the production casing. Include updated production casing cement program (cement to surface) and related information including the target formation that you are planning to inject into.

In the case of absence of annulus isolation between 13-3/8" and 9-5/8" casing, you may proceed with the current COA and perform bradenhead. In this case submit a SR drilling operation sundry with CBL attached, and information about the result of bradenhead squeeze job.

Sincerely,  
Saman Akhtarmanesh  
Petroleum Engineer  
Carlsbad Field Office  
Bureau of Land Management  
575-909-9996

---

**From:** Milligan, Dallas <Dallas.Milligan@dvn.com>  
**Sent:** Tuesday, October 22, 2024 8:07 AM  
**To:** Akhtarmanesh, Saman <sakhtarmanesh@blm.gov>  
**Subject:** [EXTERNAL] RE: Request for Remedial Cementing on Intermediate Casing - Sneaky Snake 24-13 203H - API 30-025-53538

**This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.**

Saman, as discussed please see edits below following your clarifications and conversation with Chris Walls. Per our conversation, top-out is NOT sufficient to meet COA requirements for cement to surface for the BLM on thi well due to ETOC being so deep at ~990' MD per left pressures.

Proposed Updated Remediation Steps:

1. Perform casing integrity test after WOC to achieve 500psi (11 hours)

2. Drill out and perform FIT to 12.0ppg
  3. Drill 8.75" vertical section from 5,413' to 9,299' (In the Avalon A)
  4. TOOH for 8.75" curve BHA
    1. While out of hole, rig up wireline PCE (lubricator)
    2. Run CBL on 9.625" intermediate casing to confirm TOC
      - If CBL indicates annulus isolation in the surface-by-intermediate annulus, Devon will intend to bring cement to surface on the 5.5" production string per existing COA in APD
      - If CBL indicated annulus isolation in the surface-by-intermediate annulus does not exist, Devon will perform a bradenhead cement job on this annulus to achieve quality cement to surface
  5. TIH with 8.75" curve assembly and continue to drill curve / lateral
- Thanks, -Dallas





**2. Casing Program**

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	48	H40	BTC	0	1326	0	1326
12 1/4	9 5/8	40	J-55	BTC	0	5413	0	5413
8 3/4	5 1/2	17	P110	BTC	0	19953	0	9600

•All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.

**3. Cementing Program (3-String Primary Design)**

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	998	Surf	13.2	1.4	Lead: Class C Cement + additives
Int 1	599	Surf	9.0	3.3	Lead: Class C Cement + additives
	154	4913	13.2	1.4	Tail: Class H / C + additives
Int 1 Intermediate Squeeze	779	Surf	9.0	3.3	Squeeze Lead: Class C Cement + additives
	599	Surf	9.0	3.3	Lead: Class C Cement + additives
	154	4913	13.2	1.4	Tail: Class H / C + additives
Production	560	0	10.5	4.0	2nd State: Bradenhead Squeeze - Lead: Class H / C + additives
	2050	8297	13.2	1.5	Tail: Class H / C + additives

**Production Section Remediation**

1. Perform casing integrity test after WOC to achieve 500psi (11 hours)
2. Drill out and perform FIT to 12.0ppg
3. Drill 8.75" vertical section from 5,413' to 9,299' (In the Avalon A)
4. TOO H for 8.75" curve BHA
1. While out of hole, rig up wireline PCE (lubricator)
2. Run CBL on 9.625" intermediate casing to confirm TOC
  - o If CBL indicates annulus isolation in the surface-by-intermediate annulus, Devon will intend to bring cement to surface on the 5.5" production string per existing COA in APD
  - o If CBL indicated annulus isolation in the surface-by-intermediate annulus does not exist, Devon will perform a bradenhead cement job on this annulus to achieve quality cement to surface

Casing String	% Excess
Surface	50%
Intermediate	30%
Production	15%



4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
Int 1	13-5/8"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
Production	13-5/8"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
			Annular (5M)		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		

**5. Mud Program (Three String Design)**

Section	Type	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	Brine	10-10.5
Production	WBM	8.5-9

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
---------------------------------------------------------	-----------------------------

**6. Logging and Testing Procedures**

Logging, Coring and Testing	
X	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain.
	Coring? If yes, explain.

Additional logs planned	Interval
Resistivity	
Density	
X CBL	Production casing
X Mud log	KOP to TD
PEX	

**7. Drilling Conditions**

Condition	Specify what type and where?
BH pressure at deepest TVD	4493
Abnormal temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H<sub>2</sub>S) monitors will be installed prior to drilling out the surface shoe. If H<sub>2</sub>S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR 3176. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

N	H <sub>2</sub> S is present
Y	H <sub>2</sub> S plan attached.



**8. Other facets of operation**

Is this a walking operation? Potentially

- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
  - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR 3172, all COAs and NMOCD regulations).
- 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pad.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. At that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.
  - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

**Attachments**

X Directional Plan  
           Other, describe

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 403658

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 403658
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	MUST SUBMIT COPIES OF CBL.	12/19/2024
pkautz	AFTER A BREADENHEAD CEMENT JOB IS PERFORMED MUST RUN A CBL	12/19/2024