

Submit 1 Copy To Appropriate District Office  
District I - (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
District II - (575) 748-1283  
811 S. First St., Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV - (505) 476-3460  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised July 18, 2013

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO. 30-025-20078
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Pure State
8. Well Number 002
9. OGRID Number 236183
10. Pool name or Wildcat Queen
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3713 GR

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well  Gas Well  Other

2. Name of Operator  
Tandem Energy Corporation

3. Address of Operator  
5065 Westheimer Rd, Ste 920 Houston, TX 77056

4. Well Location  
Unit Letter I: 1980 feet from the S line and 660 feet from the E line  
Section 36 Township 19S Range 34E NMPM County Lea

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	<b>P AND A</b> <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	PNR <input type="checkbox"/>
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Please see Plug and Abandonment End Of Well Report for work performed.

Spud Date: 5/31/1963 Rig Release Date: 1/12/2023

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE [Signature] TITLE IT Manager DATE 10/5/2023

Type or print name Chris Sanders E-mail address: chriss@t5energy.com PHONE: 713-987-7318

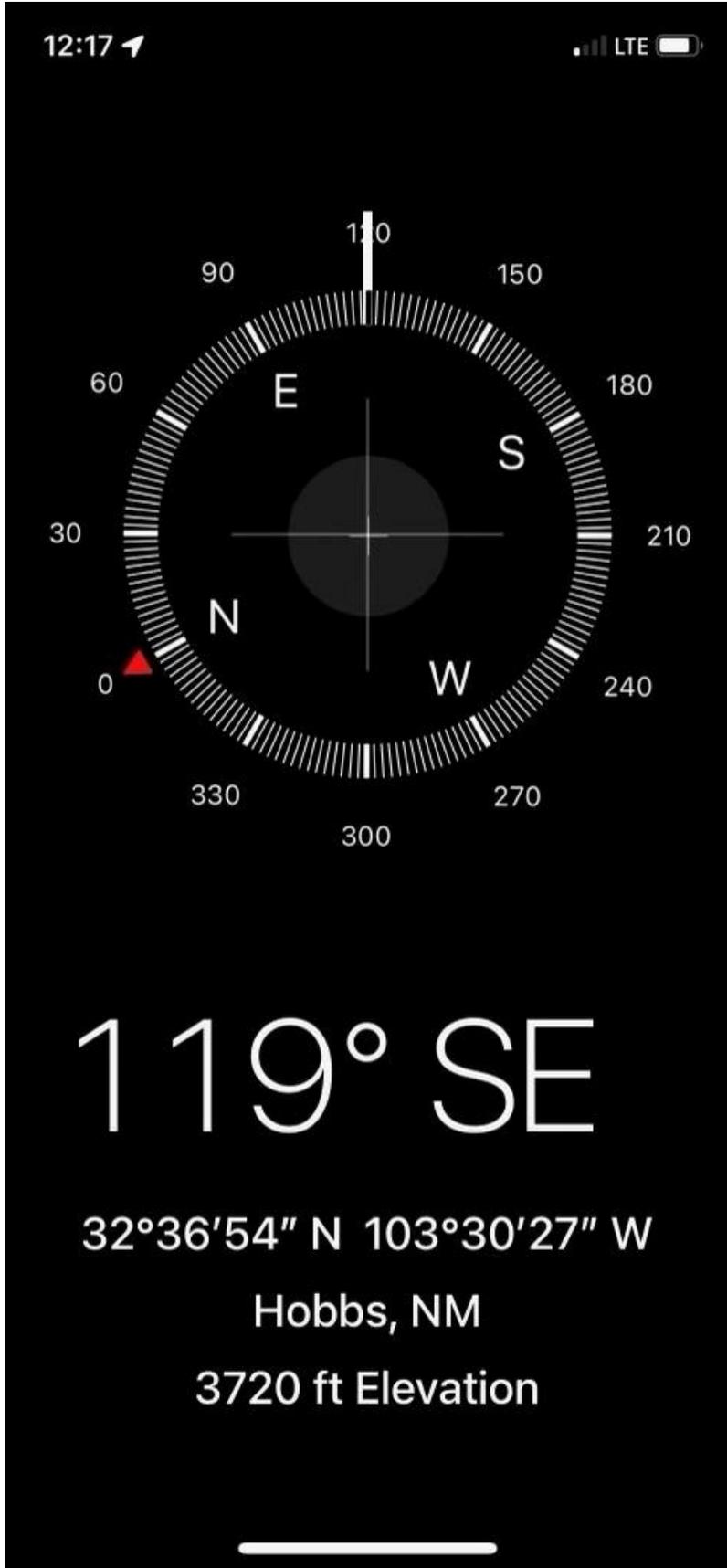
**For State Use Only**

APPROVED BY: [Signature] TITLE Compliance Officer A DATE 10/30/23  
Conditions of Approval (if any):







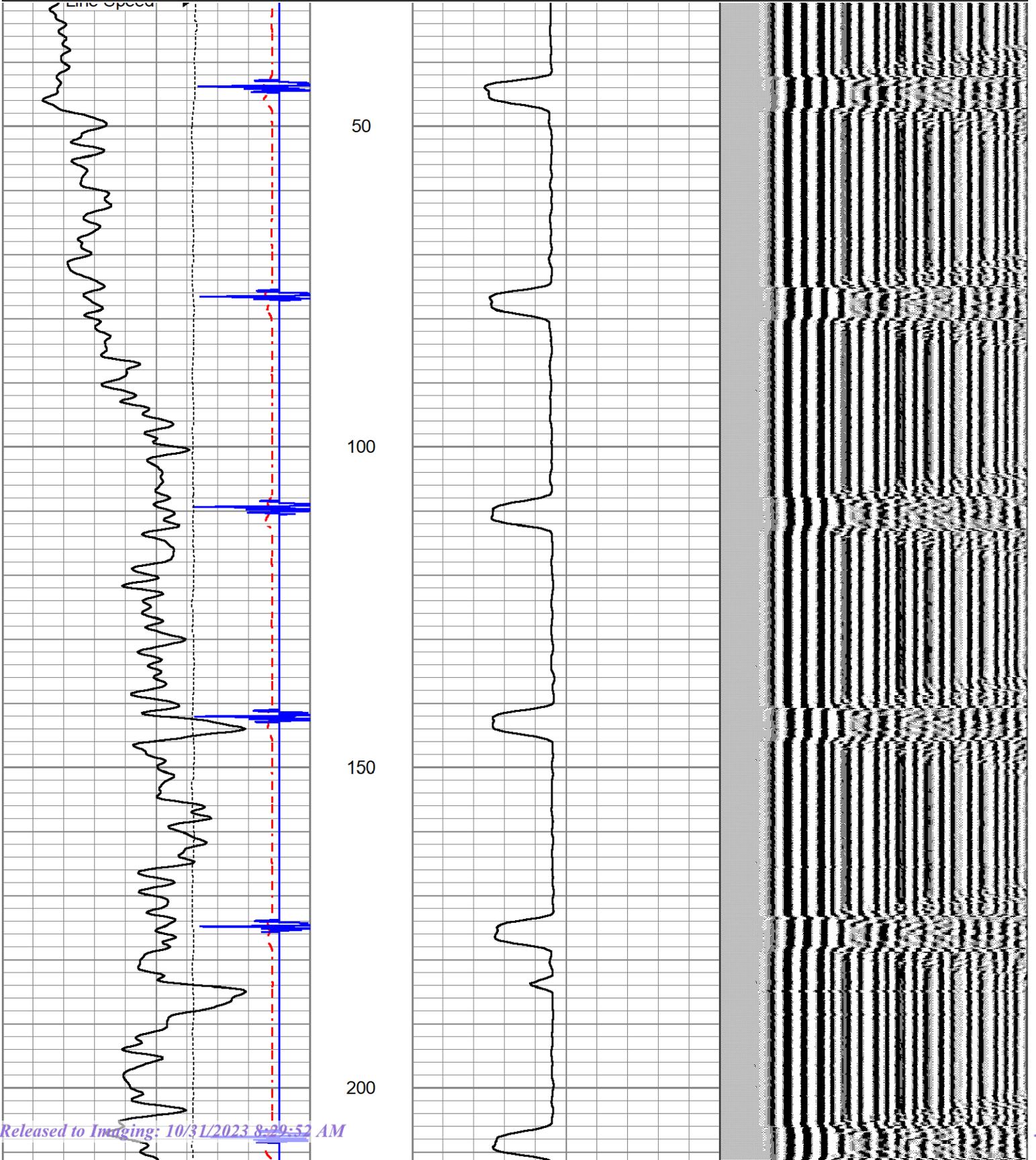


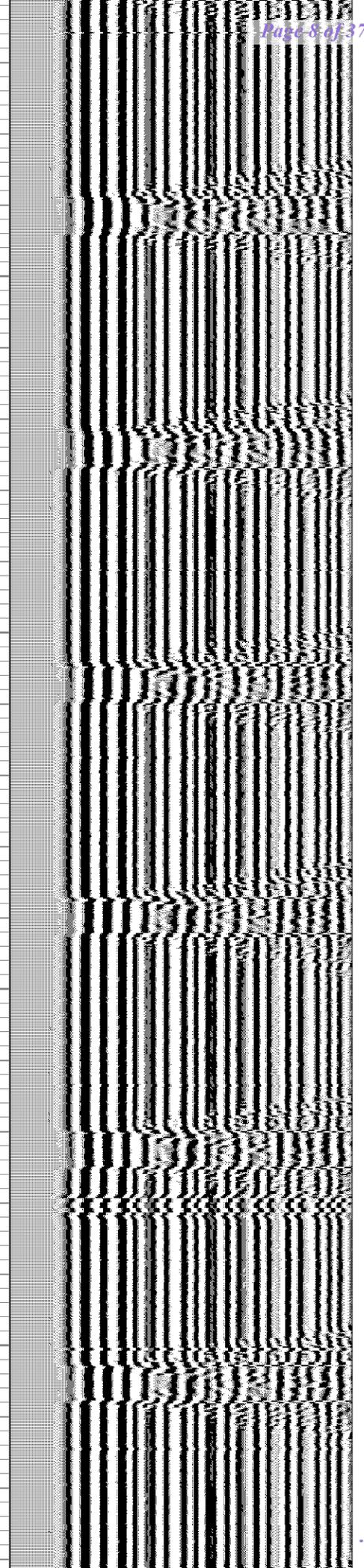
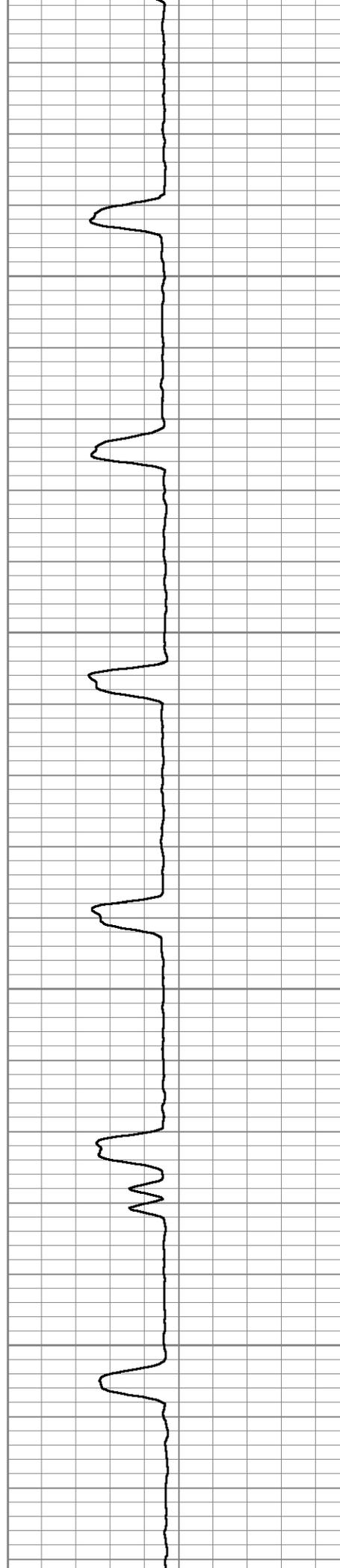
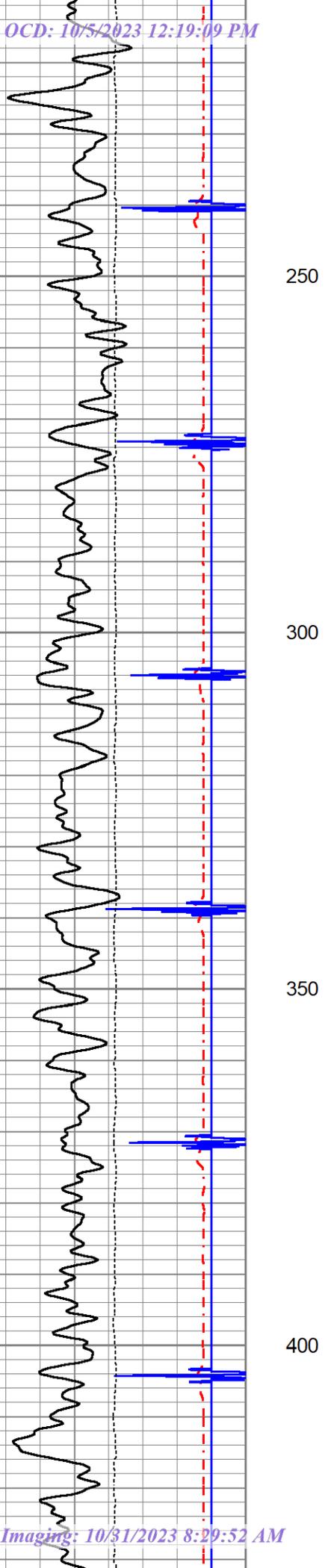


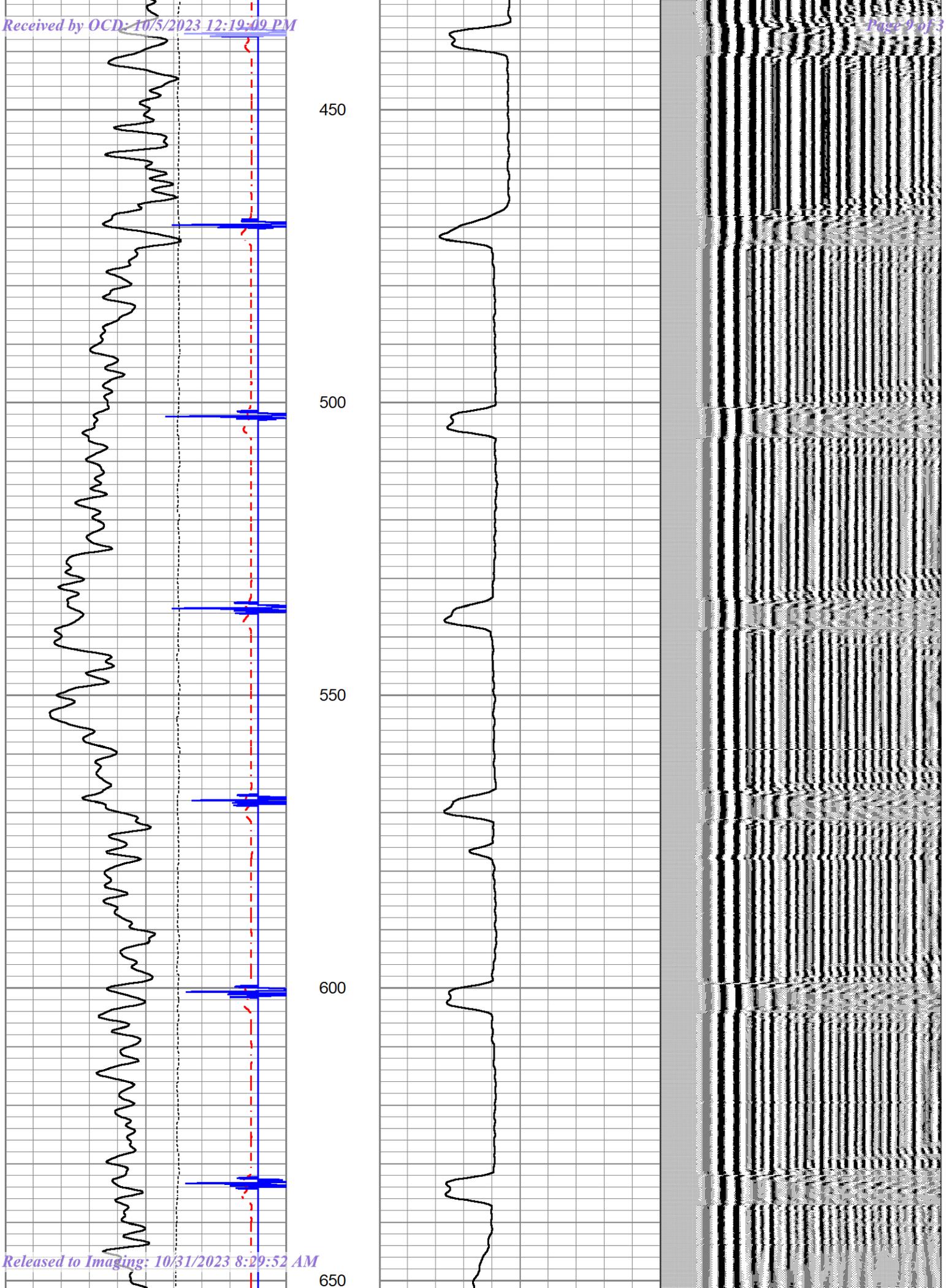
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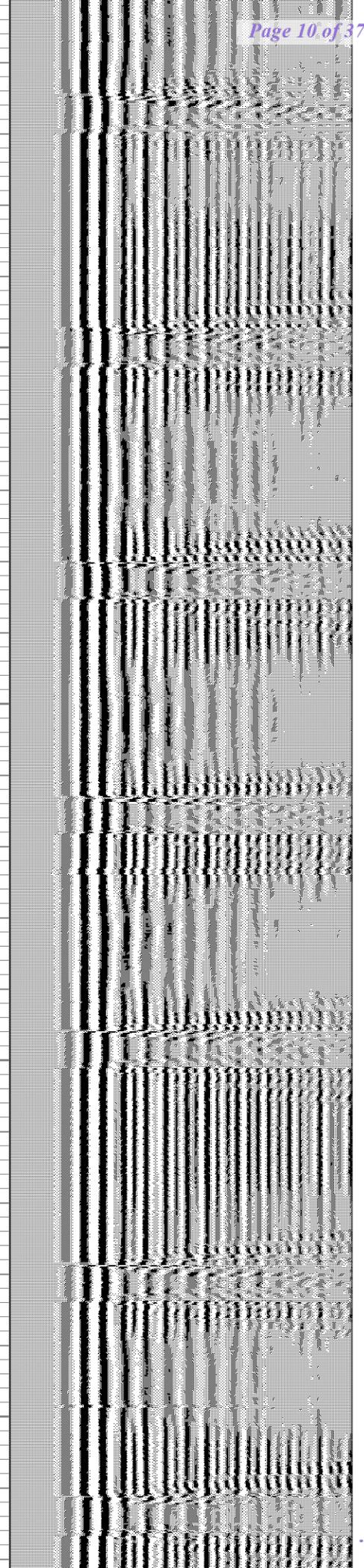
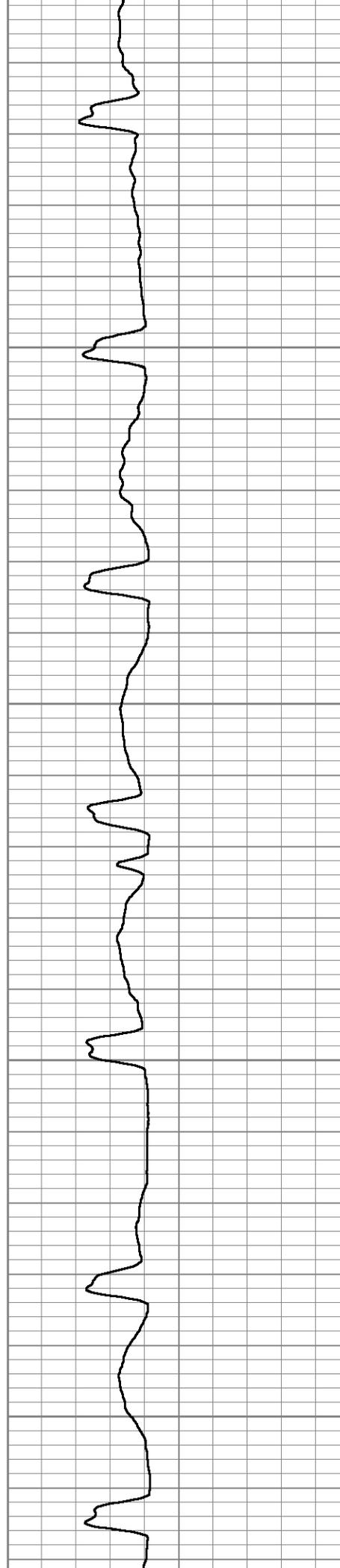
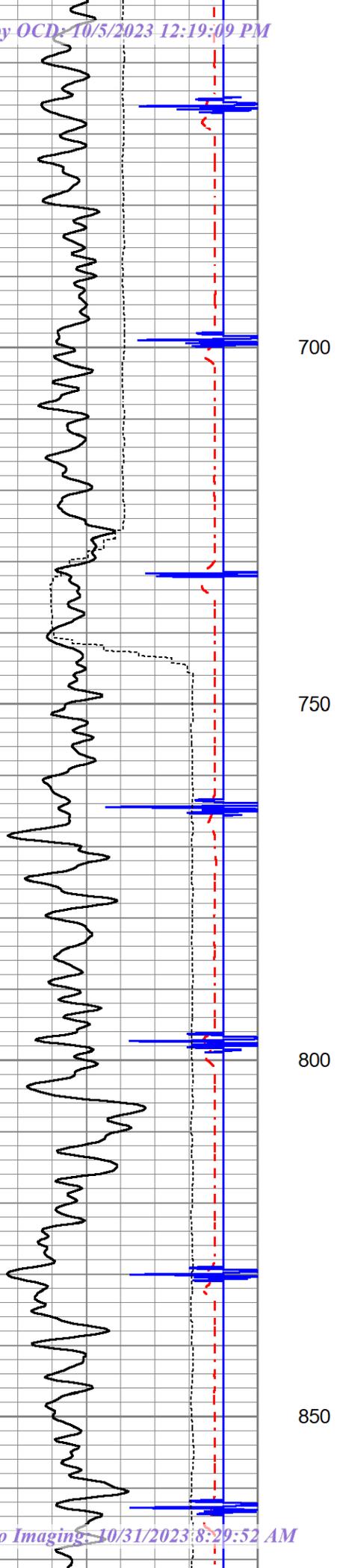
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0	Line Speed (ft/min)	130

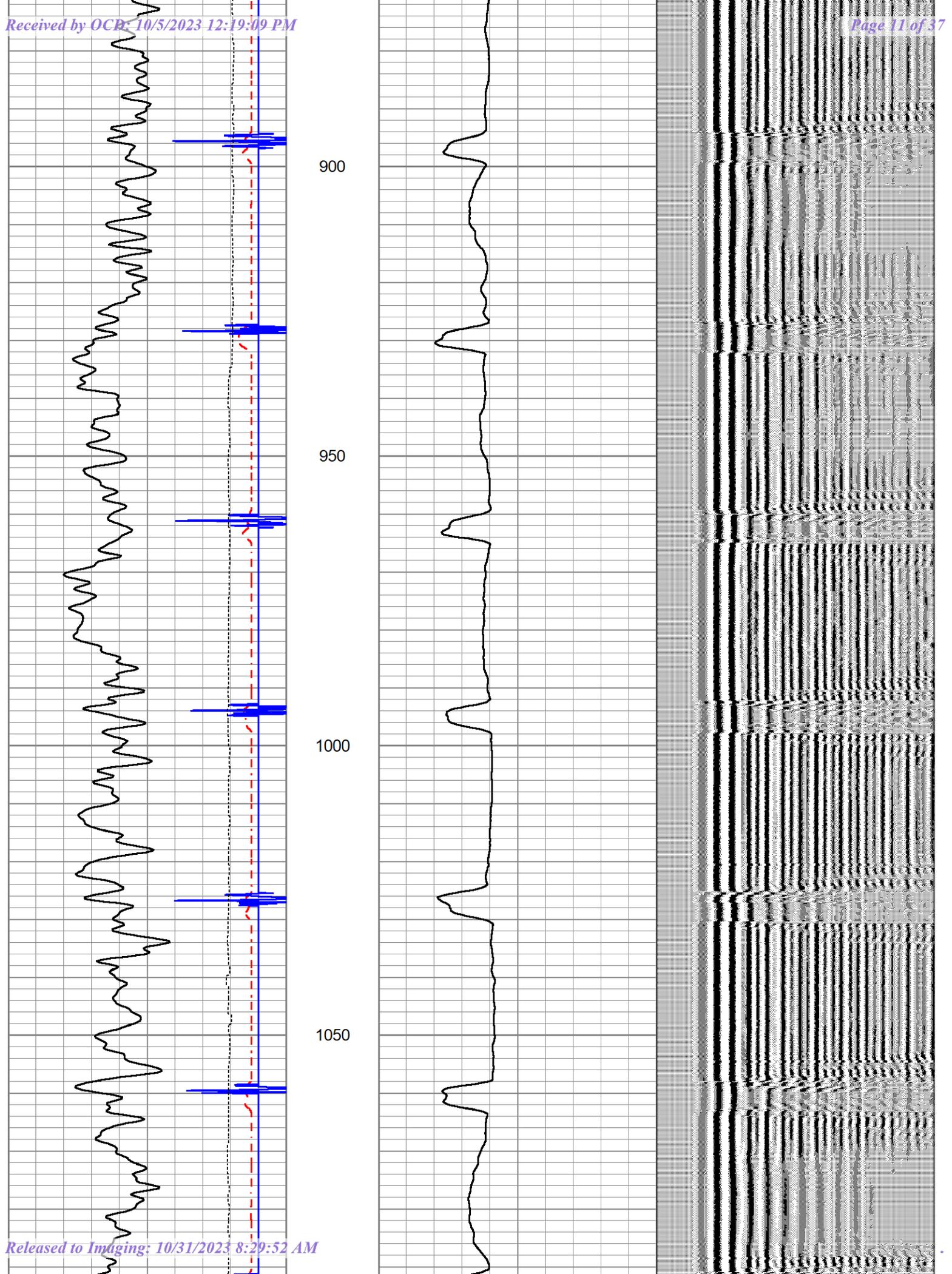
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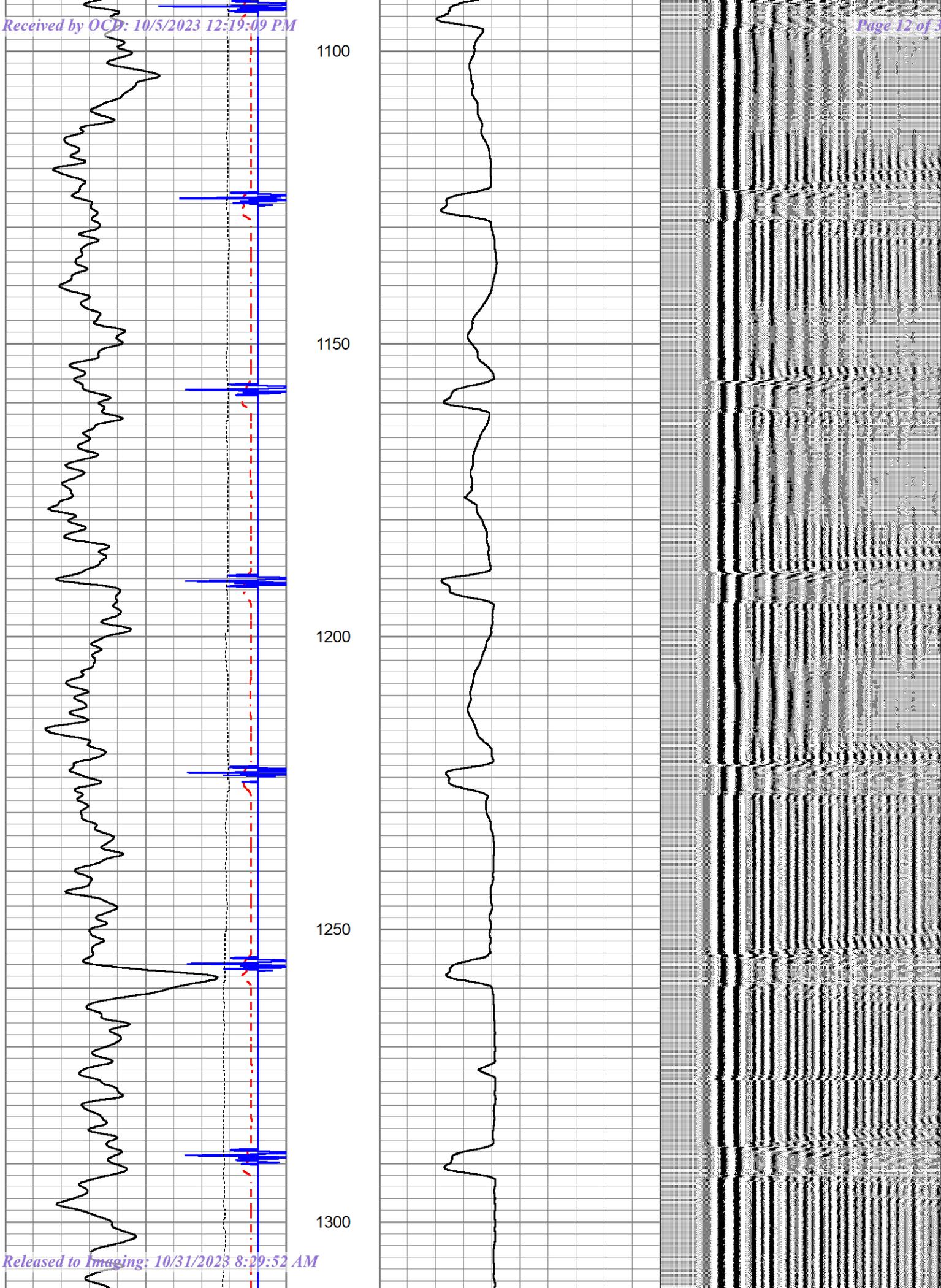


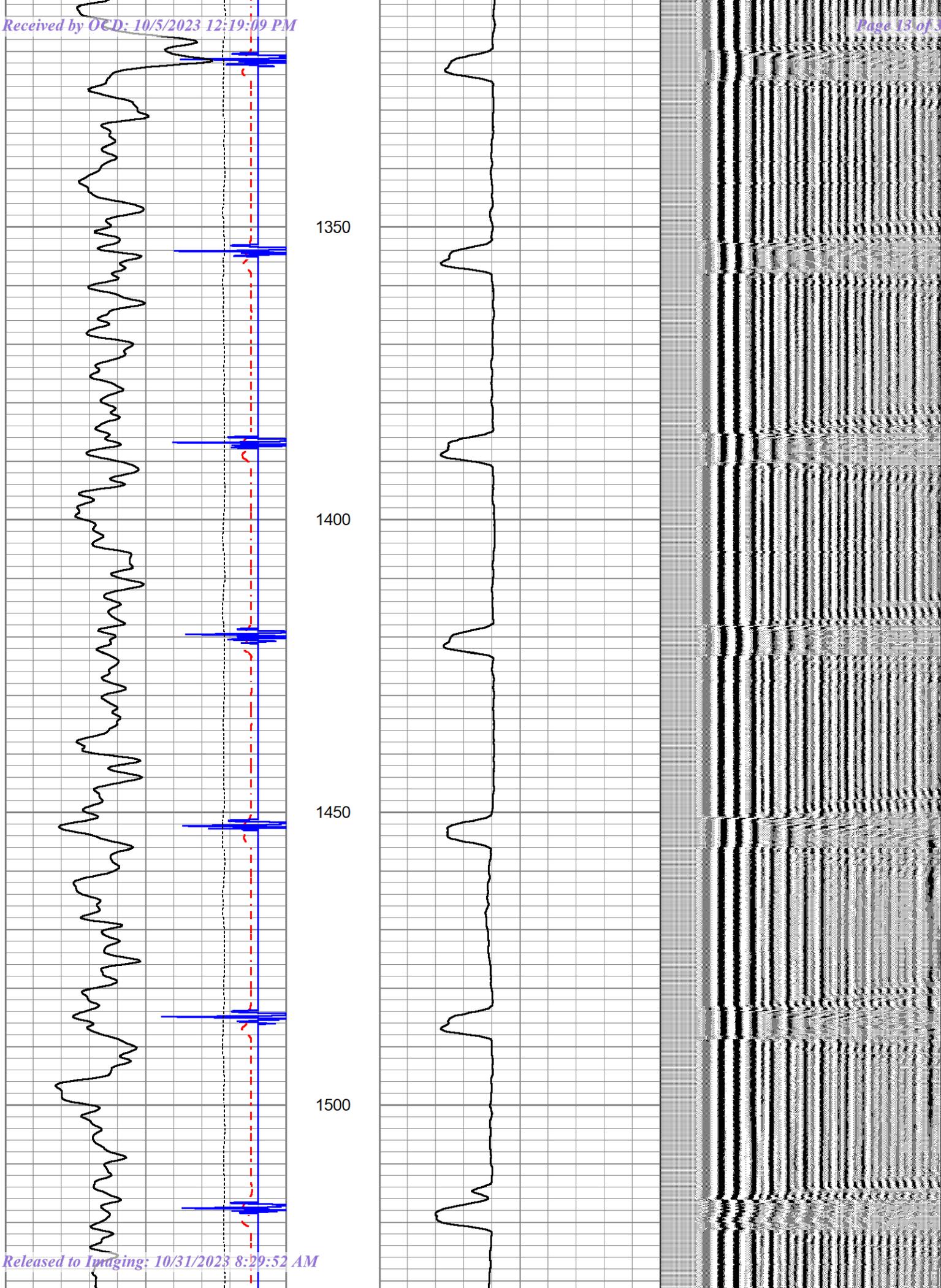


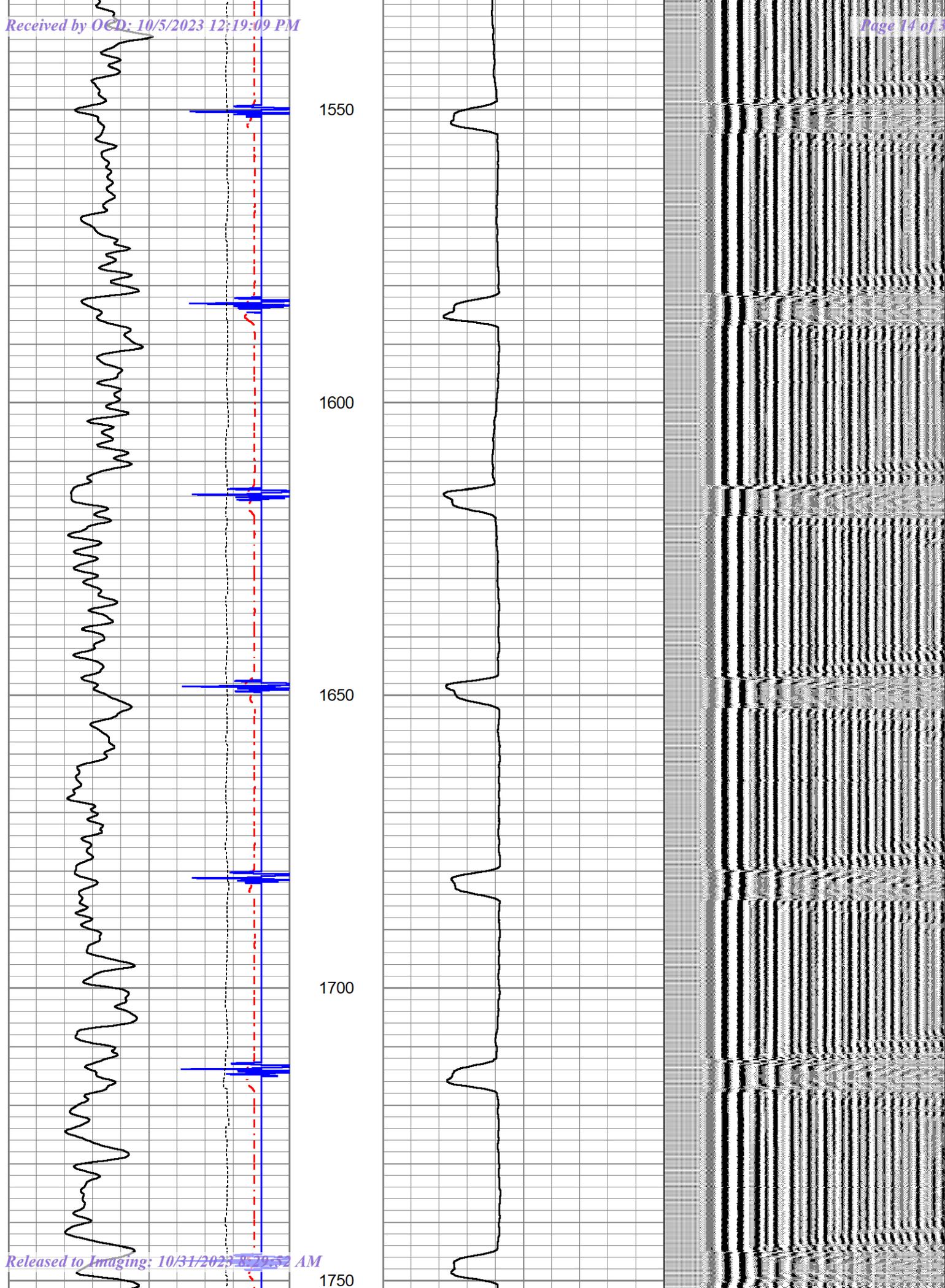


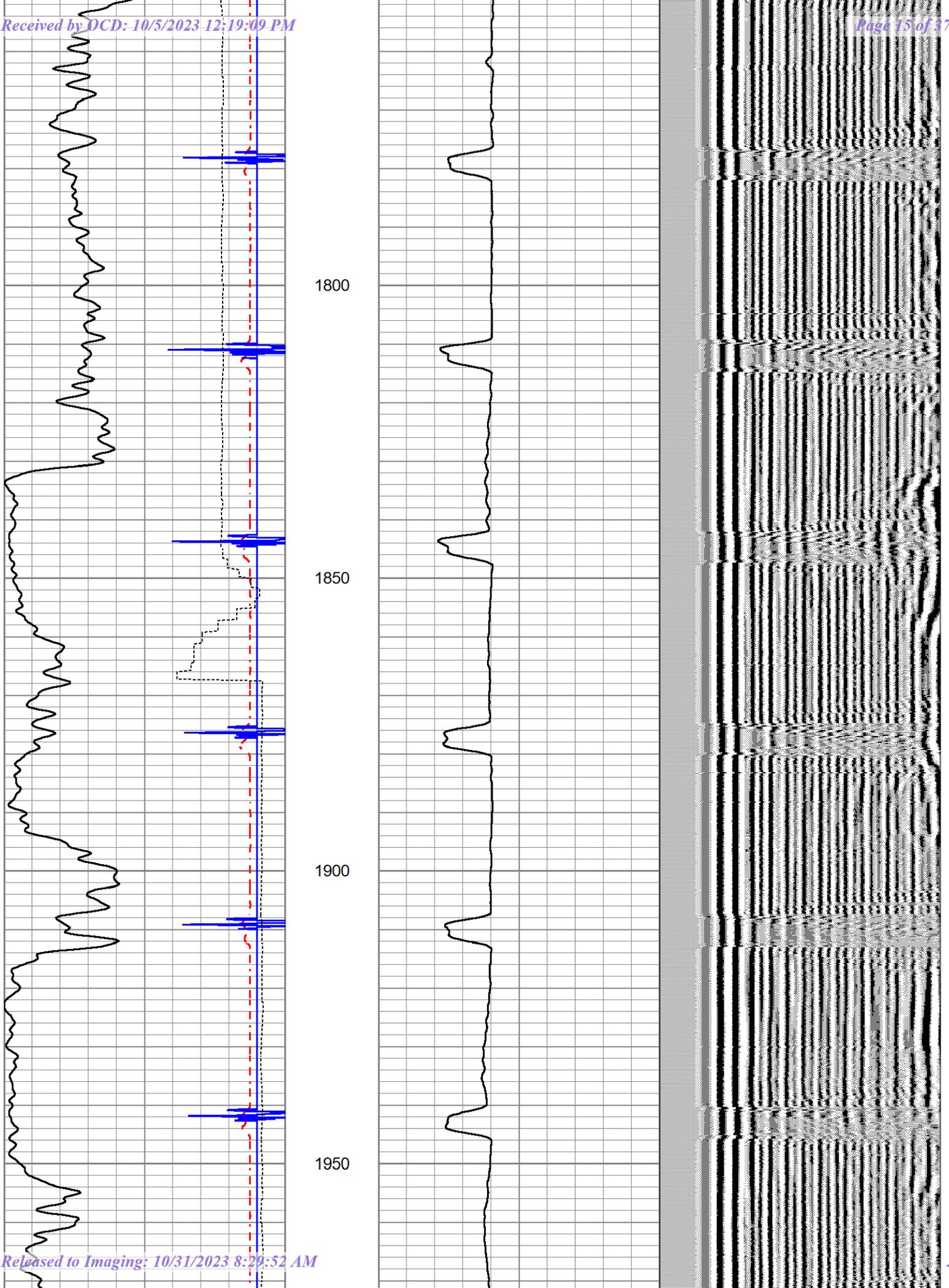


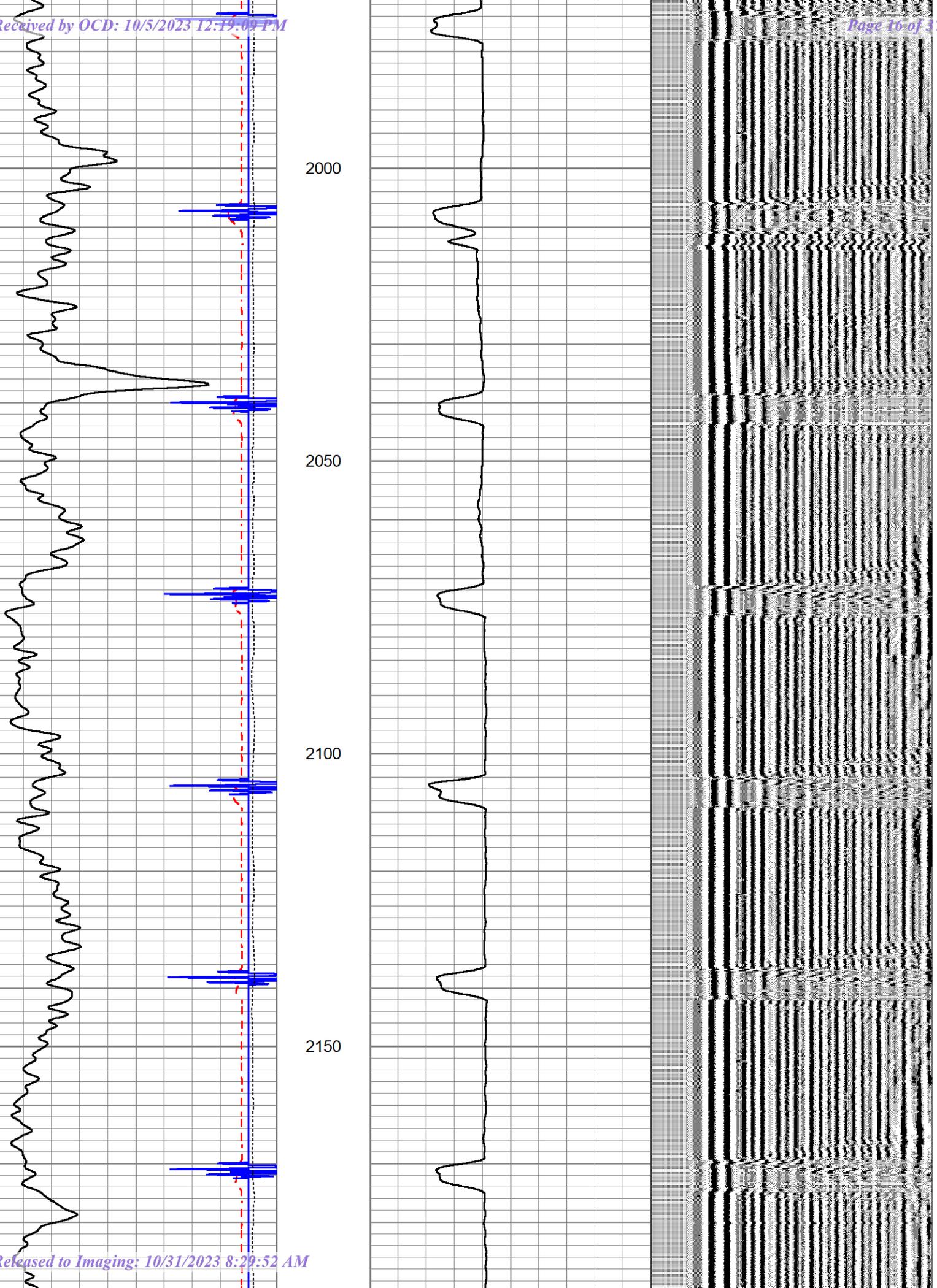


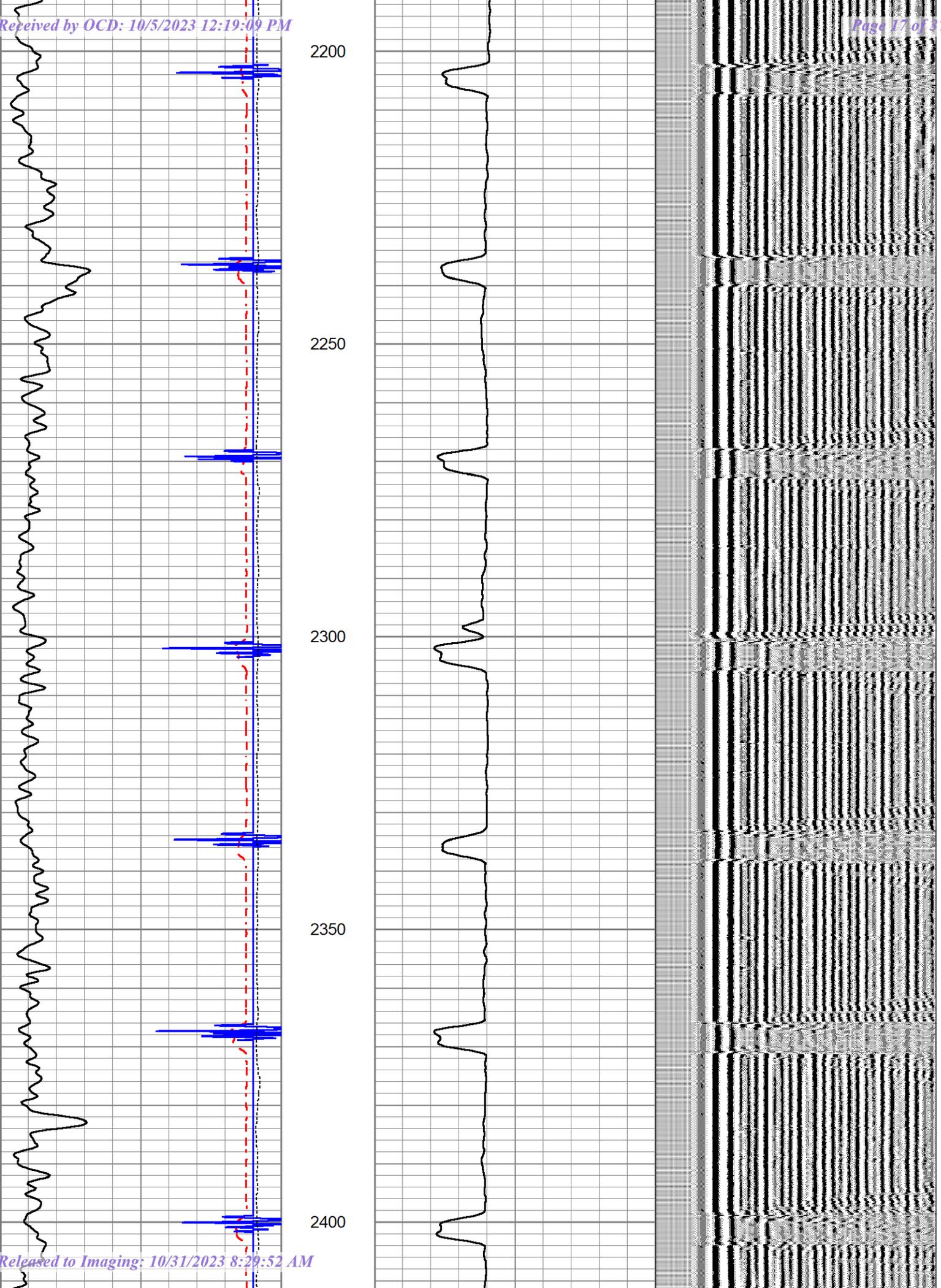


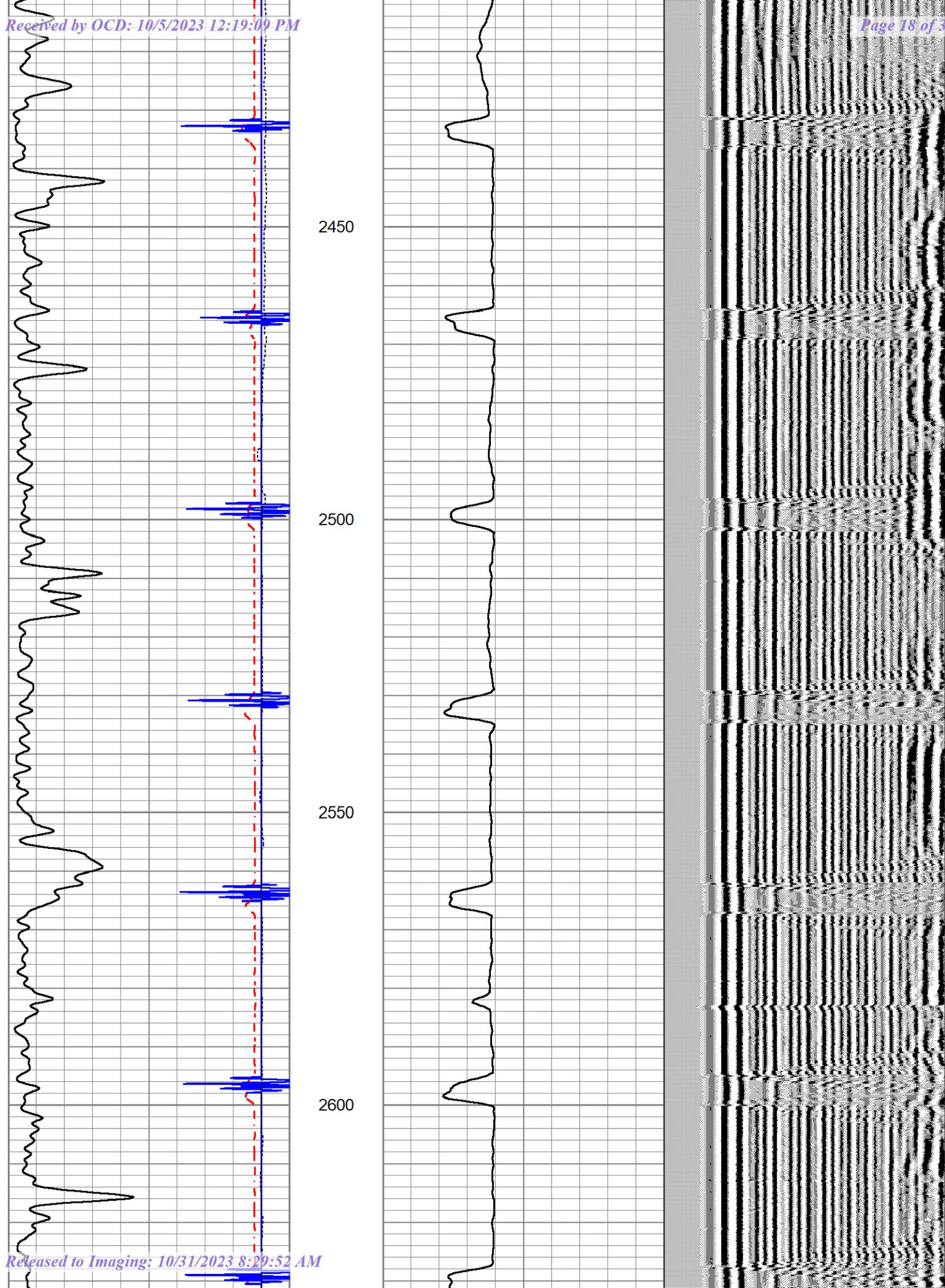


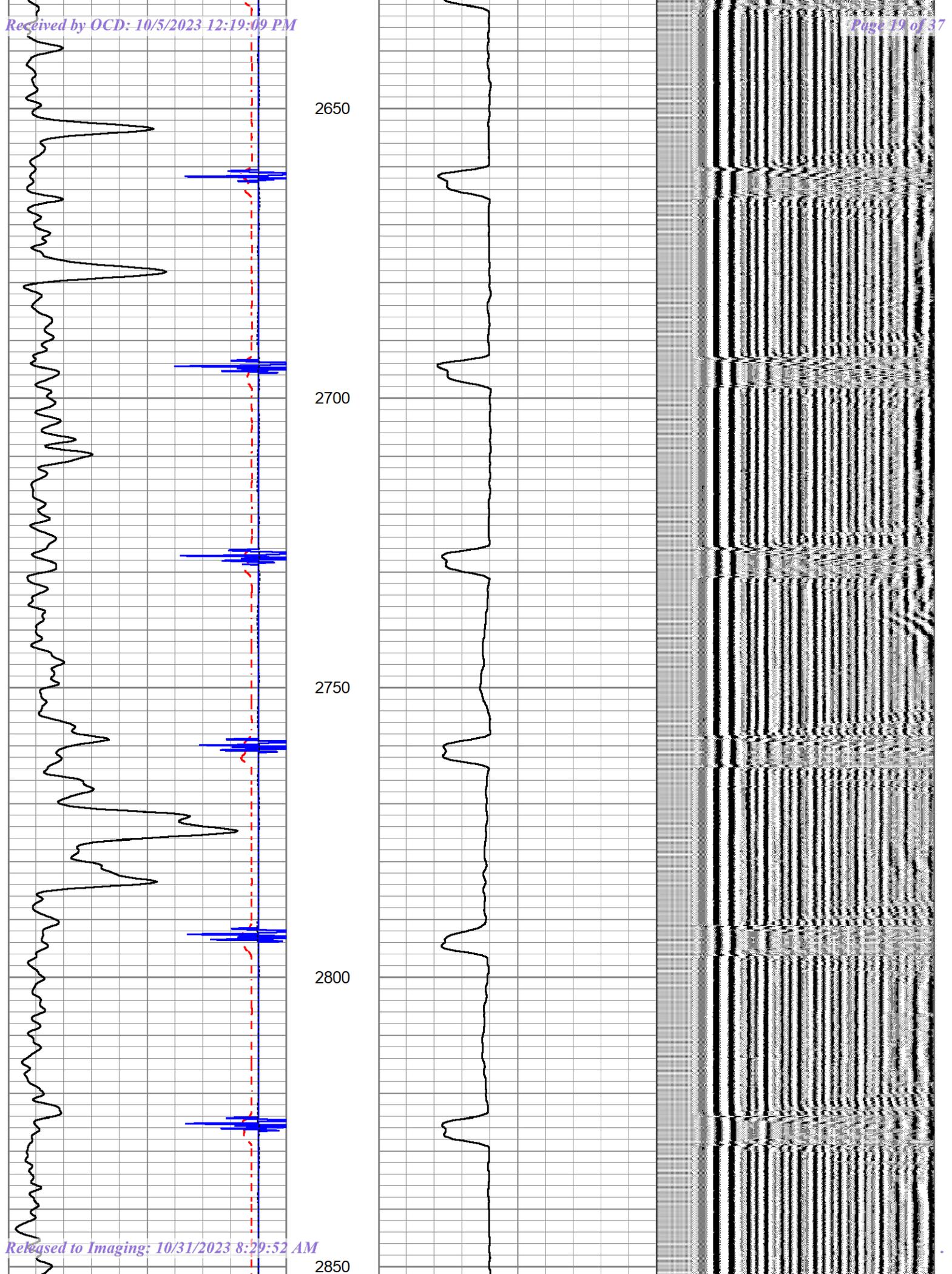












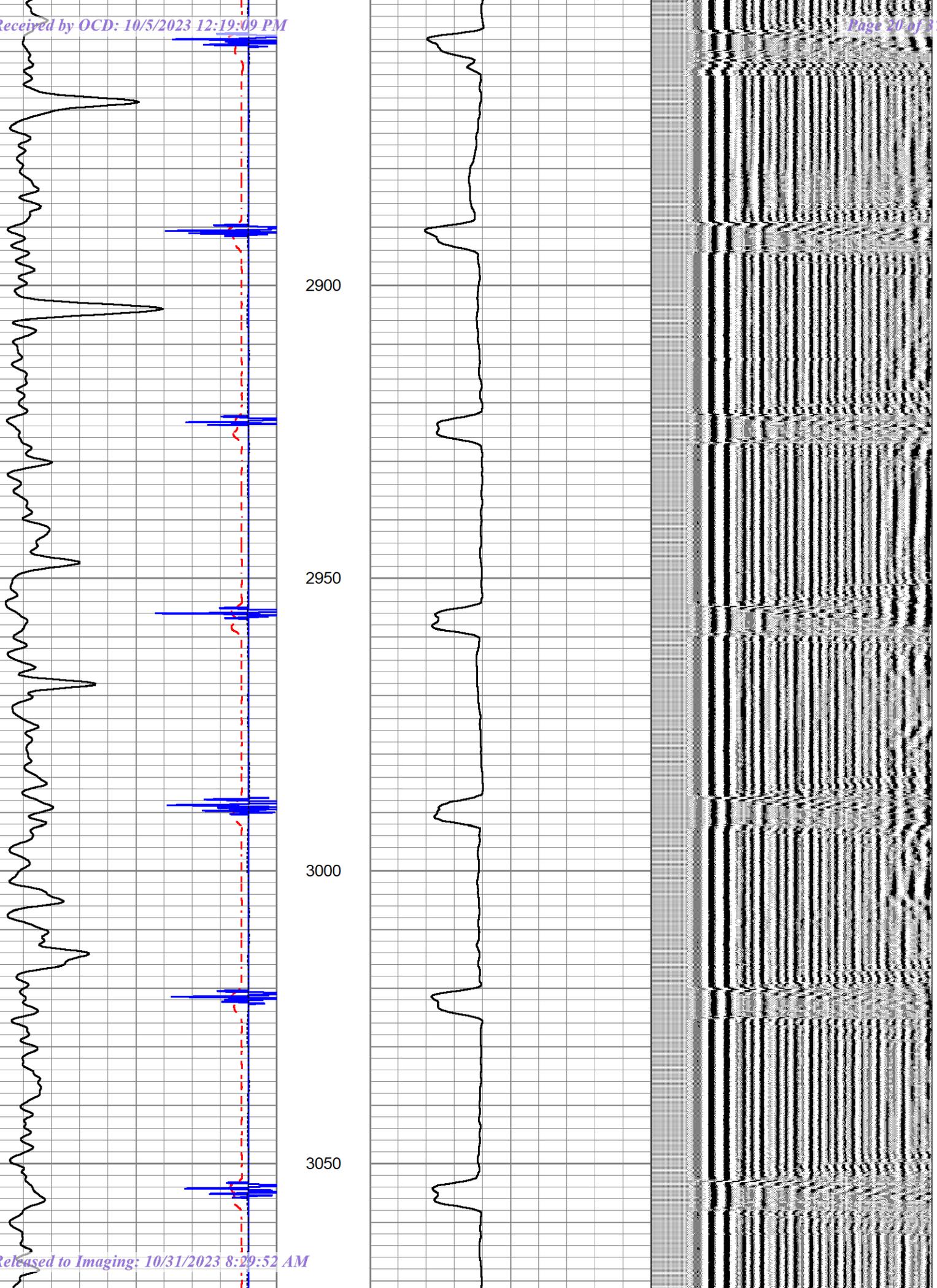
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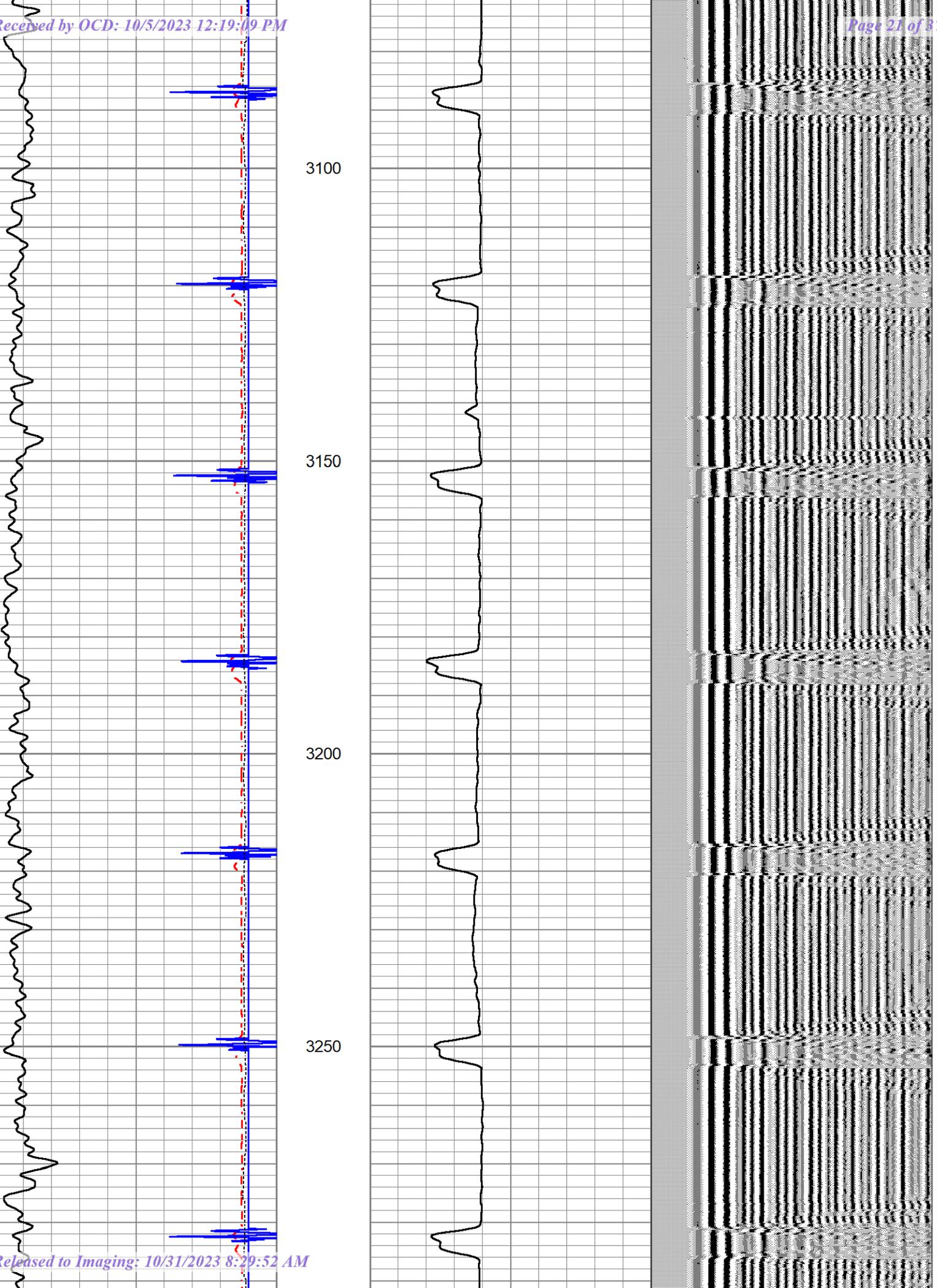
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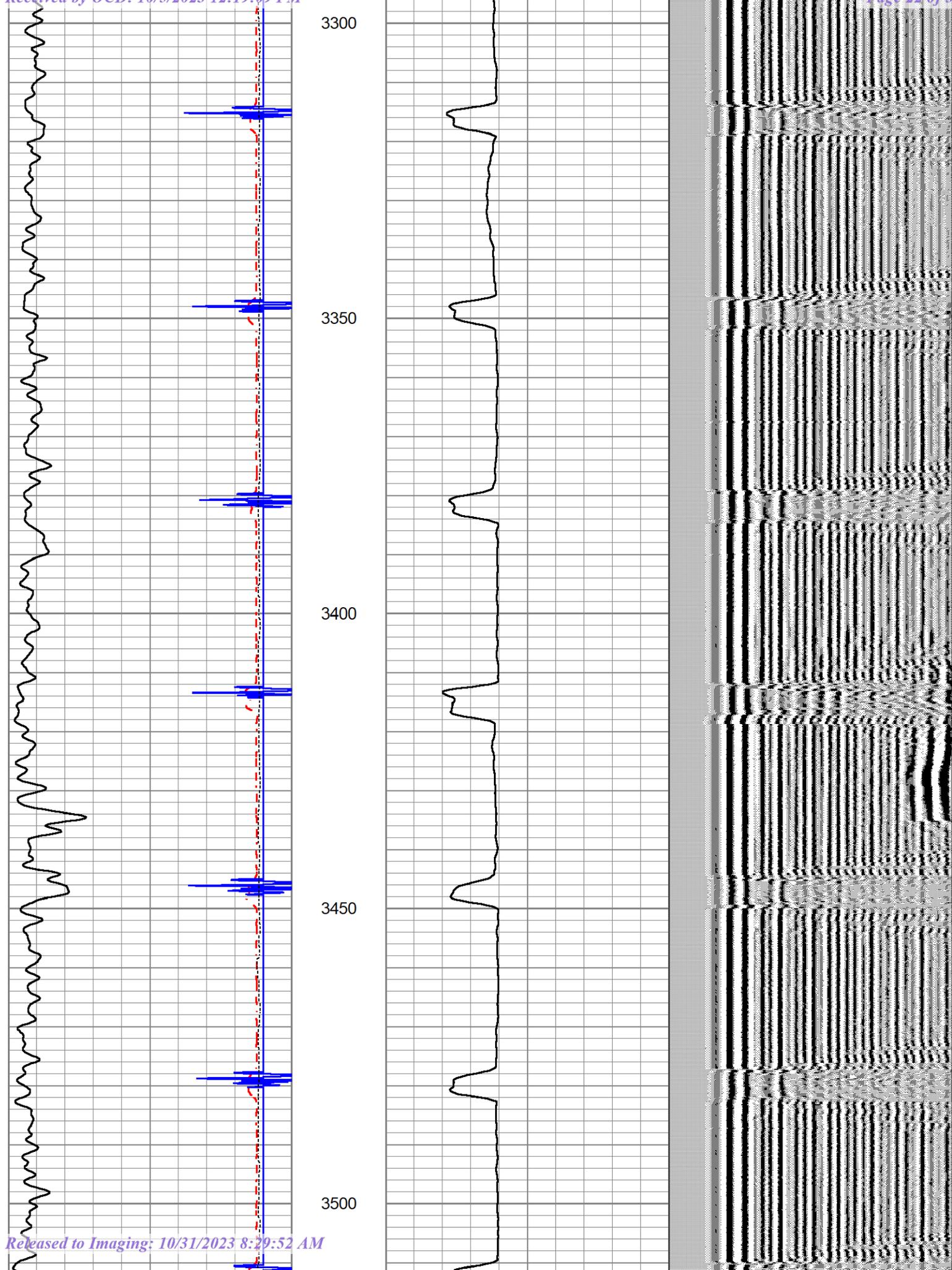
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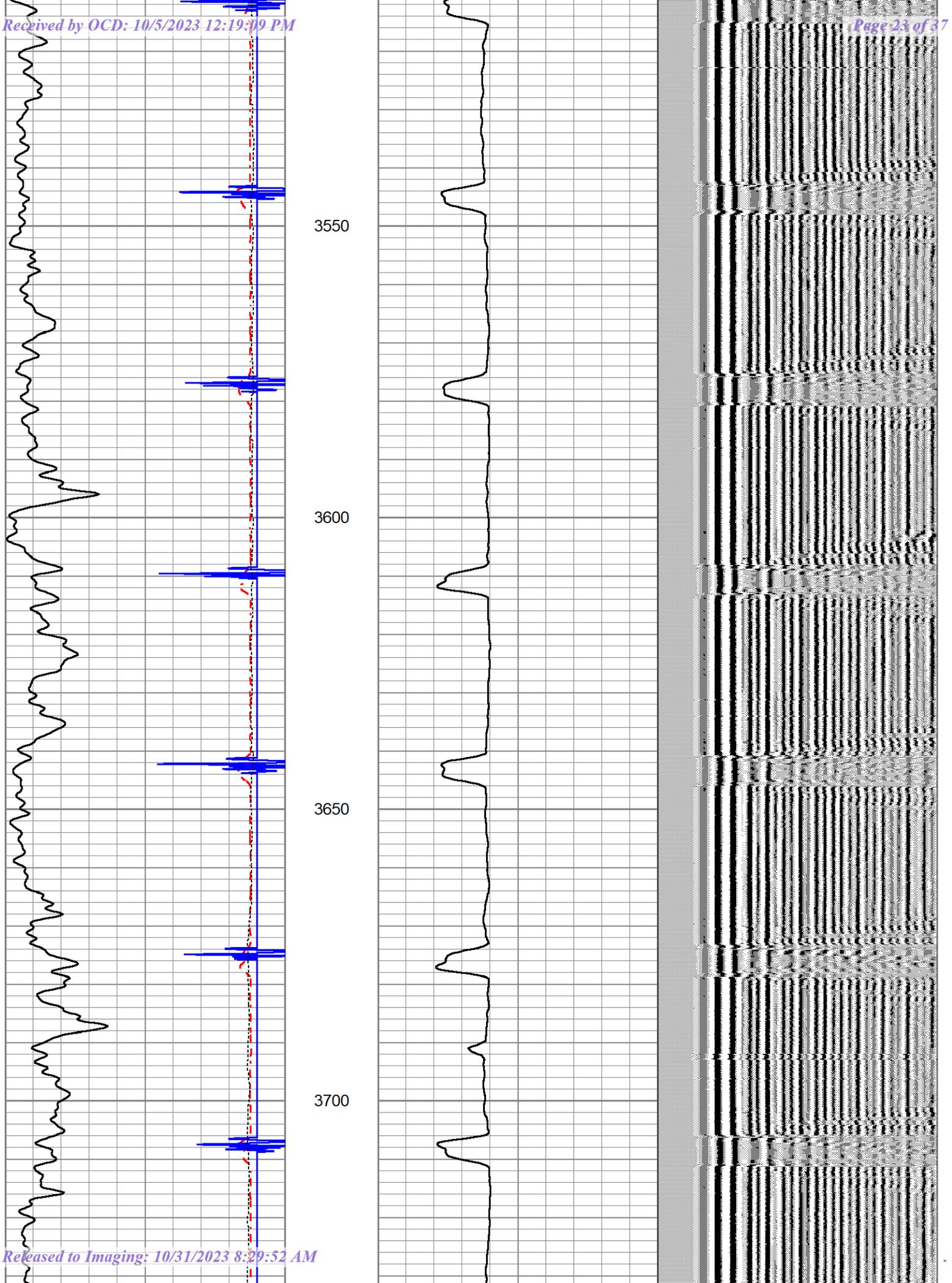
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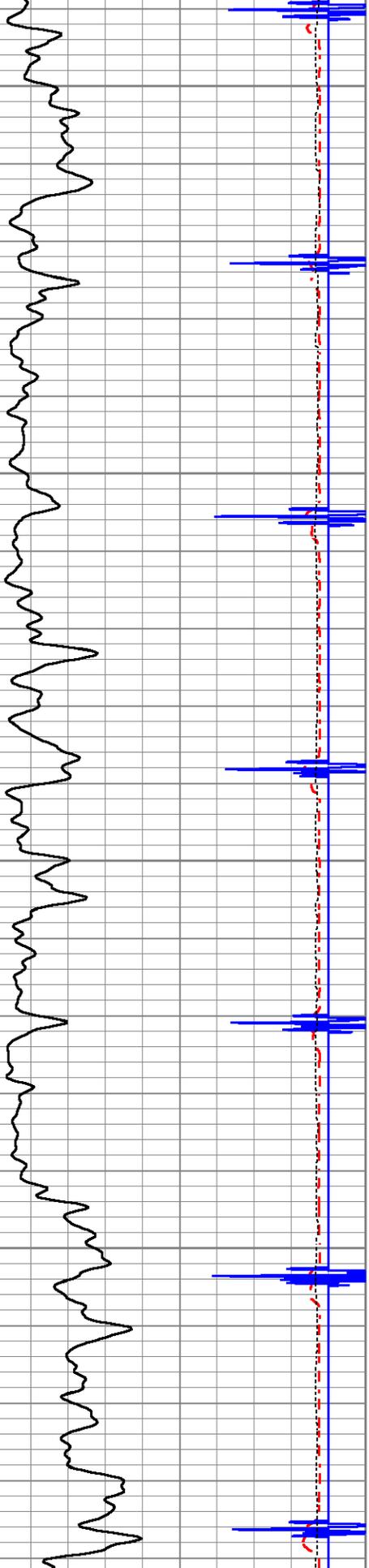
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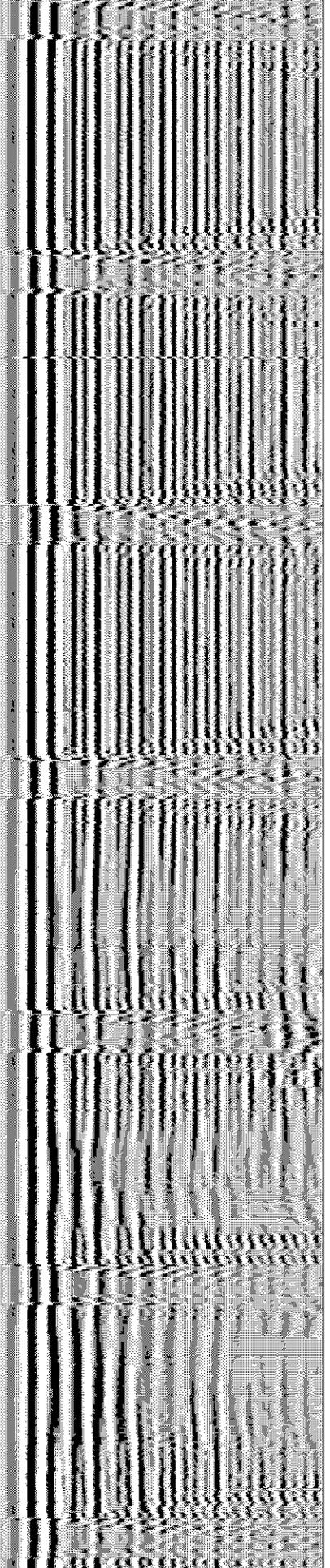
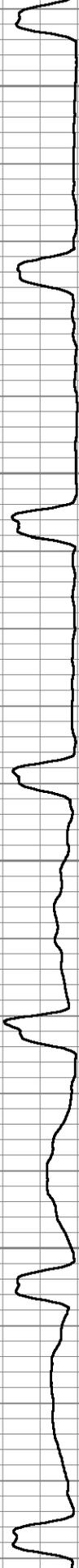
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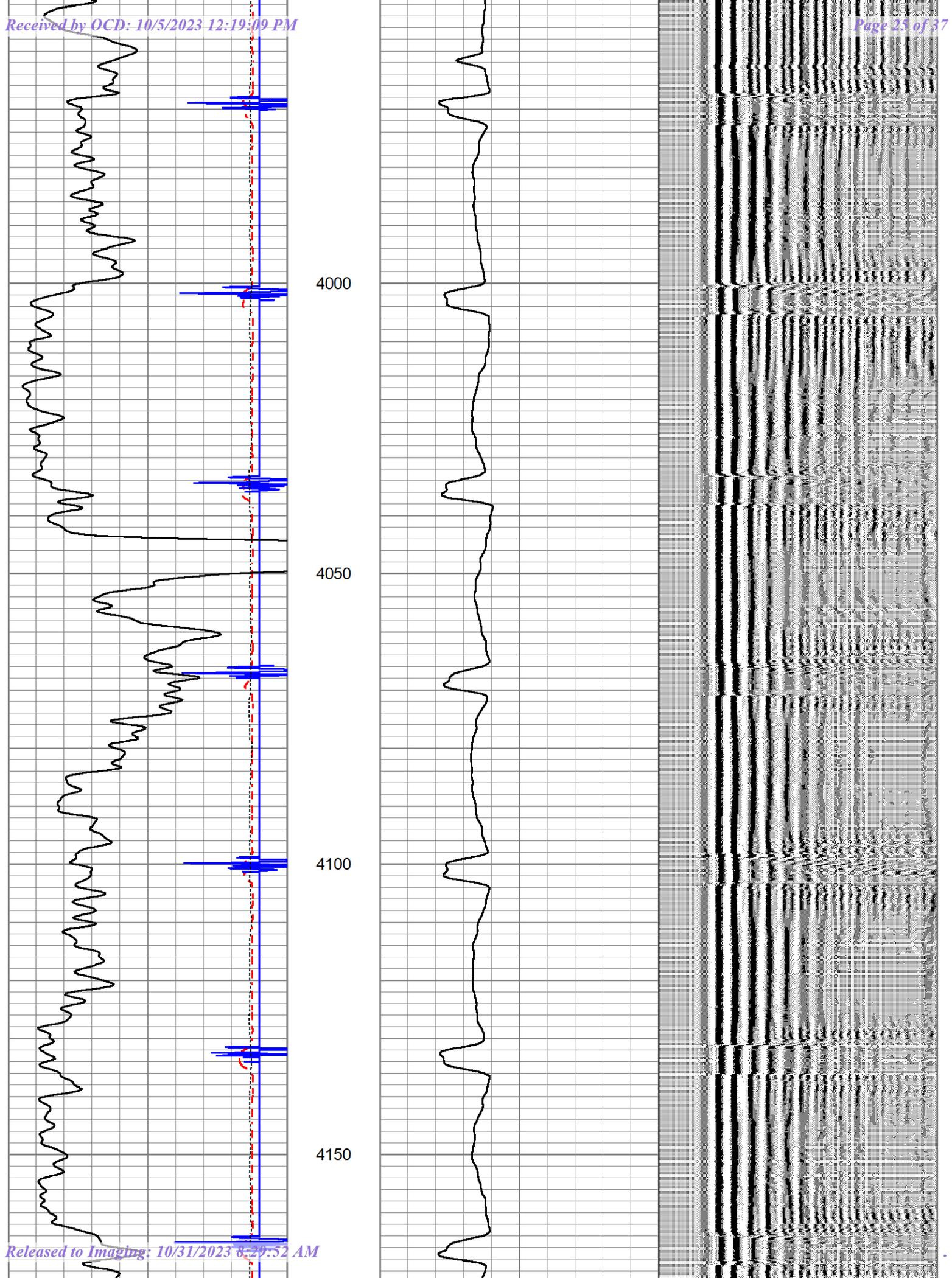
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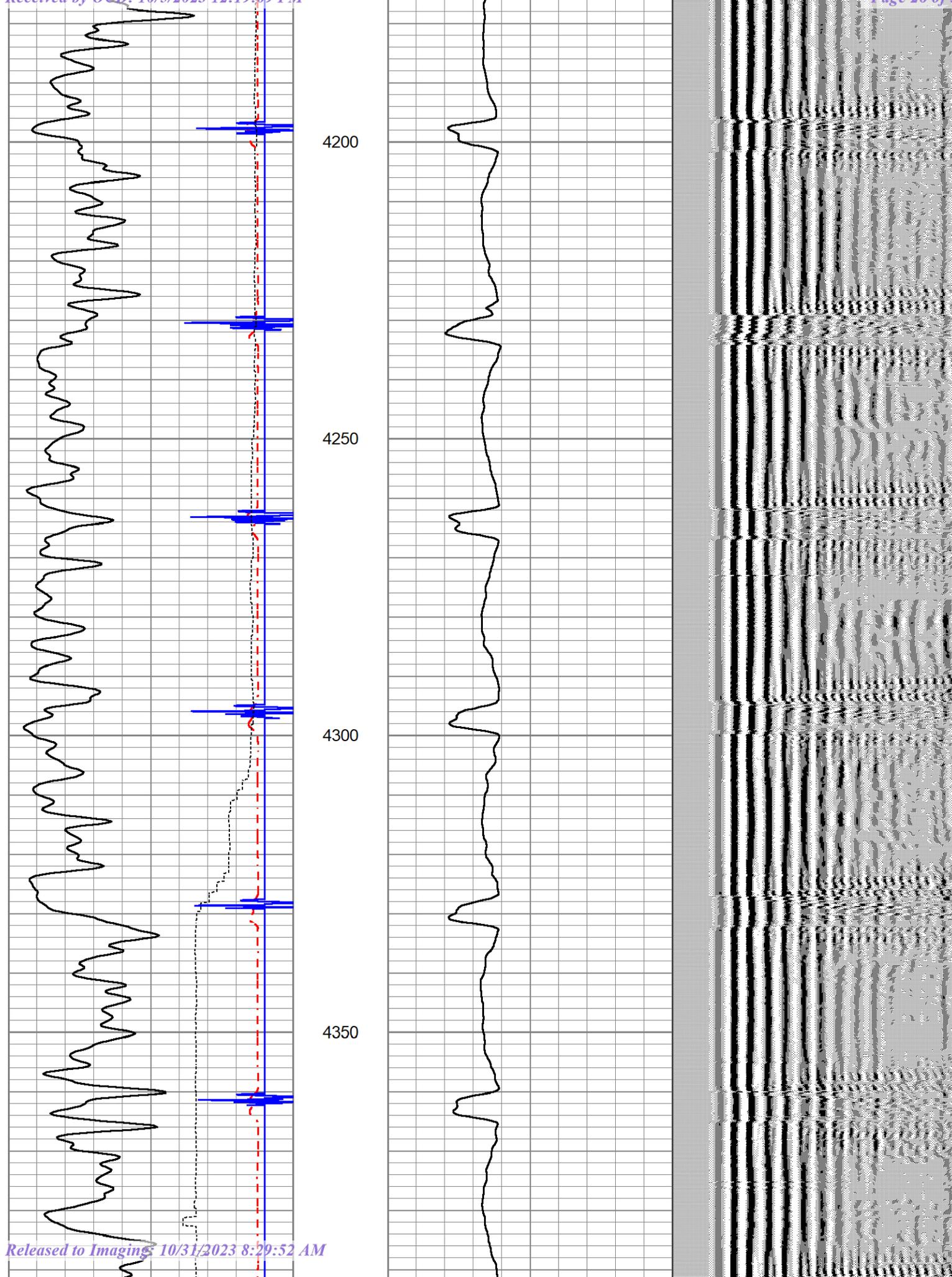
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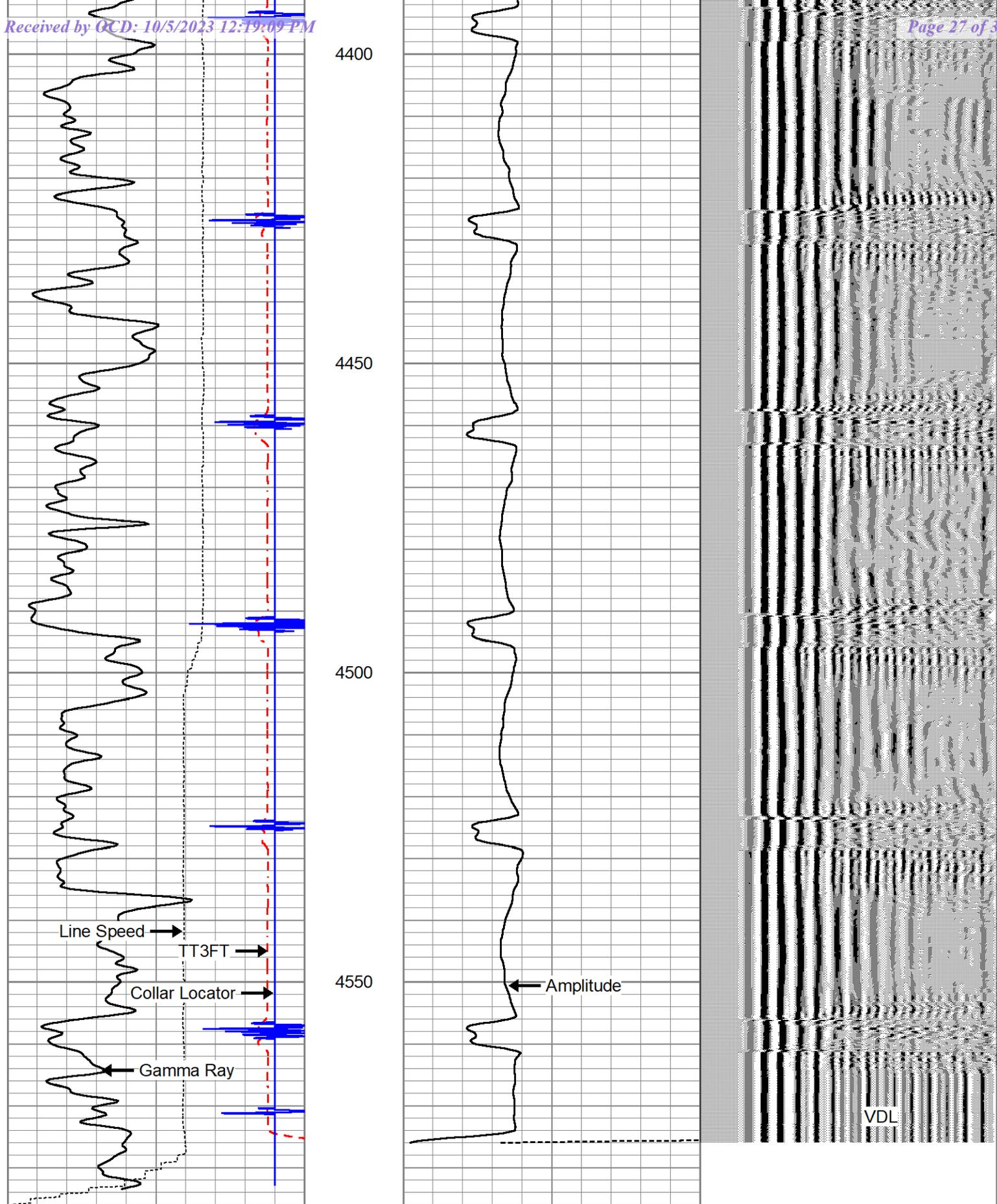
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3950









1200	TT3FT (usec)	75
9	Collar Locator	-1
0	Gamma Ray (GAPI)	200
0	Line Speed (ft/min)	130

0	Amplified Amplitude (mV)	10
0	Amplitude (mV)	150

200	VDL (usec)	1200
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# Log Variables

Dataset field/well/run1/pass8/\_vars\_

## Top - Bottom

BOREID in 7.875	BOTTEMP degF 100	CASEOD in 2.875	CASETHCK in 0	CASEWGHT lb/ft 6.5	MAXAMPL mV 106.5	MINAMPL mV 1	MINATTN db/ft 0.8
PERFS No	PPT usec 0	SRFTEMP degF 0	TDEPTH ft 0				

## Variable Description

BOREID : Borehole I.D.	CASEWGHT : Casing Weight	PERFS : Perforation Flag
BOTTEMP : Bottom Hole Temperature	MAXAMPL : Maximum Amplitude	PPT : Predicted Pipe Time
CASEOD : Casing O.D.	MINAMPL : Minimum Amplitude	SRFTEMP : Surface Temperature
CASETHCK : Casing Thickness	MINATTN : Minimum Attenuation	TDEPTH : Total Depth

## Calibration Report

Database File drake\_purestate\_no002\_grcibpcbl.db  
 Dataset Pathname pass8  
 Dataset Creation Tue Dec 20 15:53:28 2022

## Gamma Ray Calibration Report

Serial Number: 275  
 Tool Model: Probe  
 Performed: Thu May 09 10:03:43 2013

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: 275  
 Tool Model: Probe

Calibration Casing Diameter: 2.875 in  
 Calibration Depth: 19.075 ft

Master Calibration, performed Tue Dec 20 12:24:37 2022:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.000	0.672	1.000	106.451	156.887	1.071
CAL						
5'	0.000	0.638	1.000	106.451	165.290	0.996
SUM						
S1						
S2						
S3						
S4						
S5						
S6						
S7						
S8						

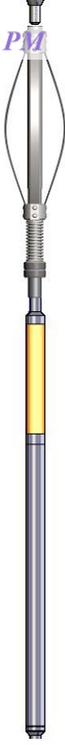
Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL						

Air Zero Calibration, performed Tue Mar 22 13:58:21 2016:

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

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-SDSCHD Cable Head for Testing	1.00	1.69	10.00
			CS6CENT-CSSROLLER	2.20	1.69	4.41
WVF3FT	11.60		CBL-Probe (275) Probe 2.75" Dual Receiver Bond	8.92	2.75	60.00
WVF5FT	10.60					

WVFSYNC	7.42					
HEADVOLT	7.42					
CCL	3.64		CENT-BC275-0000 Probe 2.75" Bowspring Centralizer	2.83	2.75	24.00
GR	0.90		GR-Probe (275) Probe 2.75" 4 Channel Pulse	4.58	2.75	30.00
HEADVOLT	0.00					
Dataset:		drake_purestate_no002_grcibpcbl.db: field/well/run1/pass8				
Total length:		19.53 ft				
Total weight:		128.41 lb				
O.D.:		2.75 in				

 <p><b>Your Logo Here</b></p>	Company	DRAKE
	Well	PURE STATE NO.002
	Field	
	County	LEA
	State	NEW MEXICO

## **Tandem Energy Corporation**

### **Plug And Abandonment End Of Well Report**

#### **Pure State #002**

1980' FSL & 660' FEL, Section 36, 08S, 28E

Chaves County, NM / API 30-025-20078

#### **Work Summary:**

- 12/18/22** Made BLM and NMOCD P&A operations notifications at 9:00 AM MST.
- 12/19/22** Arrived on location and held safety meeting. R/U P&A rig. N/D wellhead. N/U BOP and function tested. Checked well pressures: Tubing 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. Prep and tally work-string. Wait on equipment. Secured and shut in well for the day.
- 12/20/22** Arrived on location and held safety meeting. Checked well pressures: Tubing 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. Finished setting up all equipment. R/U wireline services. P/U gage ring. Ran gage ring to 4637'. POOH. P/U CIPB. RIH and set CIBP at 4571'. R/D wireline services. P/U 1.5" work string and tagged at 4571'. Successfully circulated hole. Attempted to pressure test casing but was unsuccessful. TOOH. R/U wireline services. RIH and logged well. POOH. Secured and shut in well for the day.
- 12/21/22** Arrived on location and held safety meeting. Checked well pressures: Tubing 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. TIH to 4571'. Pressure tested casing to 500 psi. R/U cementing services. Pumped plug #1 from 4571' to approximately 4120'. R/D cementers. L/D 15 joints and TOOH. WOC 4 hours. TIH to tag but got stuck at 3414'. Worked tubing up and down 5', attempted to rotate tubing, pumped down tubing, and tubing pressured up. Wait on orders. Secured and shut in well for the day.

- 12/22/22** Arrived on location and held safety meeting. Checked well pressures: Tubing 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. R/U wireline services. Ran in hole with gage ring. Tagged up at 2440'. Performed free point, and jet cut at 2430'. Attempted to move the work string with no luck. Performed chemical cut at 2427'. Was able to move work string. R/D wireline services. TOOH. R/U wireline services. RIH and perforated at 2425'. POOH. Attempted to establish an injection rate but was unsuccessful. Secured and shut in well for the day.
- 12/23/22** Arrived on location and held safety meeting. Checked well pressures: Tubing 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. TIH to 2425'. Pumped Plug #2 from 2425' to approximately 2097'. R/D cementing services. L/D 11 joints and reverse circulated at 2047'. TOOH. WOC over the holidays. Secured and shut in well for the day.
- 1/4/23** Arrived on location and held safety meeting. Checked well pressures: Tubing 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. TIH and tagged the top of plug #2 at 1953'. Attempted to pressure test casing but was unsuccessful. TOOH. R/U wireline services. RIH and perforated at 1940'. POOH. TIH to 1953'. R/U cementing services. Attempted to get injection rate but was unsuccessful. Continued pumping plug #2 from 1953' to approximately 1592'. R/D cementing services and L/D 11 joints. TOOH. WOC 4 hours. TIH and tagged the top of Plug #2 at 1531'. Successfully pressure tested casing at 500 psi. Pumped salt/gel spacer from 1531' to 155'. TOOH. R/U wireline services. RIH and perforated at 155'. POOH. Successfully circulated water down casing through perforations an out 4.5" casing at surface. Secured and shut in well for the day.
- 12/12/22** Arrived on location and held safety meeting. R/U cementing services. Pumped cement down 2-7/8" casing, into perforations at 155', and out 4.5" casing at surface. R/D cementers. R/D floor, N/D BOP, N/U WH. WOC 4 hours. Performed wellhead cutoff. Cement was at surface in 2-7/8" casing, 30' low in 4.5" casing, and 37' low in 8.6" casing. R/U cementing services. Pumped cement to surface using poly pipe in both the 8.6" and 4.5" casing. Welded P&A marker in place per NMOCD regulations. R/D unit, all equipment and MOL.

**Plug Summary:****Plug #1: (Perforations, Queen, and 7 Rivers Formation Tops, 4,571'-4,120', 13 Sacks Type I/II Cement)**

R/U wireline services. P/U gage ring. Ran gage ring to 4637'. POOH. P/U CIPB. RIH and set CIBP at 4571. R/D wireline services. P/U 1.5" work string and tagged at 4571'. Successfully circulated hole. Attempted to pressure test casing but was unsuccessful. TOOH. R/U wireline services. RIH and logged well. POOH. TIH to 4571'. Pressure tested casing to 500 psi. R/U cementing services. Pumped plug #1 from 4571' to approximately 4120'. R/D cementers. L/D 15 joints and TOOH. WOC 4 hours. TIH to tag but got stuck at 3414'. Worked tubing up and down 5', attempted to rotate tubing, pumped down tubing, and tubing pressured up. R/U wireline services. Ran in hole with gage ring. Tagged up at 2440'. Performed free point, and jet cut at 2430'. Attempted to move the work string with no luck. Performed chemical cut at 2427'. Was able to move work string. R/D wireline services. TOOH.

**Plug #2: (Anhy Formation Top 2,425' to 1,531', 14 Sacks Type I/II Cement)**

R/U wireline services. RIH and perforated at 2425'. POOH. Attempted to establish an injection rate but was unsuccessful. TIH to 2425'. Pumped Plug #2 from 2425' to approximately 2097'. R/D cementing services. L/D 11 joints and reverse circulated at 2047'. TOOH. TIH and tagged the top of plug #2 at 1953'. Attempted to pressure test casing but was unsuccessful. TOOH. R/U wireline services. RIH and perforated at 1940'. POOH. TIH to 1953'. R/U cementing services. Attempted to get injection rate but was unsuccessful. Continued pumping plug #2 from 1953' to approximately 1592'. R/D cementing services and L/D 11 joints. TOOH. WOC 4 hours. TIH and tagged the of Plug #2 at 1531'. Successfully pressure tested casing at 500 psi.

**Plug #4: (Surface Casing Shoe, 171' to Surface', 29 Sacks Type I/II Cement (13 sx for top off))**

R/U wireline services. RIH and perforated at 155'. POOH. Successfully circulated water down casing through perforations an out 4.5" casing at surface. R/U cementing services. Pumped cement down 2-7/8" casing, into perforations at 155', and out 4.5" casing at surface. R/D cementers. R/D floor, N/D BOP, N/U WH. WOC 4 hours. Performed wellhead cutoff. Cement was at surface in 2-7/8" casing, 30' low in 4.5" casing, and 37' low in 8.6" casing. R/U cementing services. Pumped cement to surface using poly pipe in

both the 8.6" and 4.5" casing. Welded P&A marker in place per NMOCD regulations. R/D unit, all equipment and MOL.

# Completed Wellbore Diagram

Tandem Energy Corp.  
Pure State #002  
API #: 30-025-20078  
Lea County, New Mexico

### Plug 3

155 feet - surface  
155 foot plug  
29 Sacks of Type III Cement

### Plug 2

2425 feet - 1531 feet  
894 foot plug  
14 Sacks of Type III Cement

### Plug 1

4571 feet -4120 feet  
451 foot plug  
13 sacks of Type III Cement

### Surface Casing

8-5/8" 24# @ 105'  
OH: 12-1/4"  
Cement: 75 sx

### Formations

Anhy - 1830'  
Salt - 3720'  
Yates - 3885'  
7 Rivers - 4220'  
Queen - 4880'

### Intermediate Casing

4-1/2" 10.5# @ 5023'  
OH: 7-7/8"

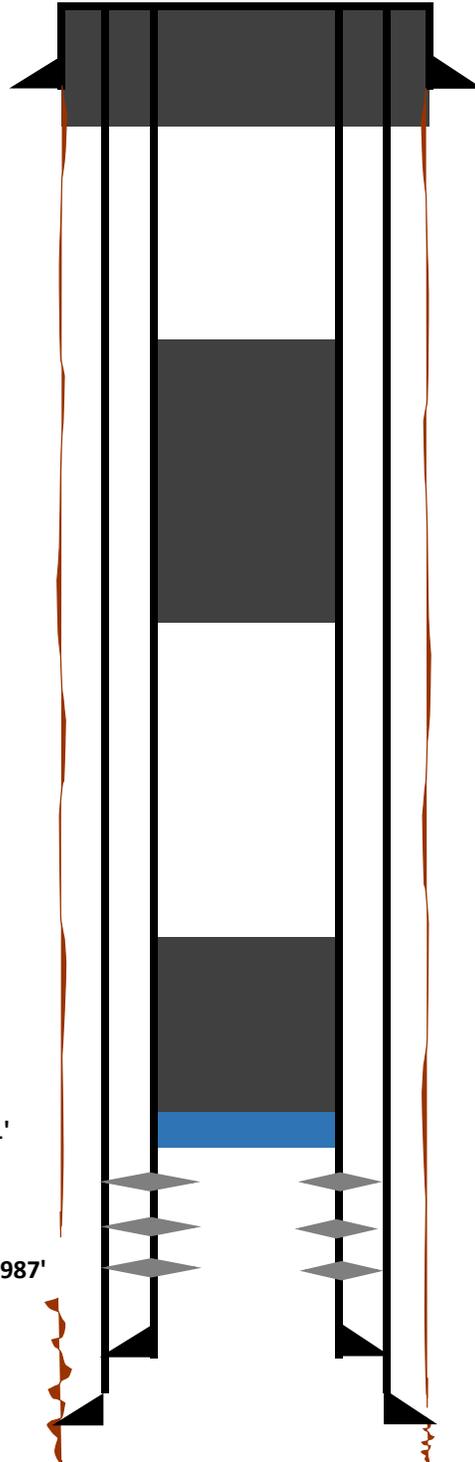
### Preforations:

4621' to 4949'

Retainer @ 4571'

### Production Casing

Slim Hole - 2-7/8" 6.5# @ 4987'  
Csg: 4-1/2" 10.5# @ 5023'  
OH: 7-7/8"  
Cement: 200 sx



**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**

COMMENTS  
 Action 272923

**COMMENTS**

Operator: TANDEM ENERGY CORPORATION 5065 Westheimer Rd Houston, TX 77056	OGRID: 236183
	Action Number: 272923
	Action Type: [C-103] Sub. Plugging (C-103P)

**COMMENTS**

Created By	Comment	Comment Date
plmartinez	DATA ENTRY PM.	10/31/2023

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

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

CONDITIONS

Action 272923

**CONDITIONS**

Operator: TANDEM ENERGY CORPORATION 5065 Westheimer Rd Houston, TX 77056	OGRID: 236183
	Action Number: 272923
	Action Type: [C-103] Sub. Plugging (C-103P)

**CONDITIONS**

Created By	Condition	Condition Date
kfortner	Need C103Q and marker photo to release	10/30/2023