

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Name: JICARILLA 126 S

Well Location: T24N / R4W / SEC 2 /
NENE /

County or Parish/State: RIO
ARRIBA / NM

Well Number: 4

Type of Well: CONVENTIONAL GAS
WELL

Allottee or Tribe Name:
JICARILLA APACHE

Lease Number: JIC126

Unit or CA Name:

Unit or CA Number:

US Well Number: 300390565200S1

Well Status: Abandoned

Operator: SOUTHLAND
ROYALTY COMPANY

Subsequent Report

Sundry ID: 2697983

Type of Submission: Subsequent Report

Type of Action: Plug and Abandonment

Date Sundry Submitted: 10/13/2022

Time Sundry Submitted: 10:14

Date Operation Actually Began: 10/04/2022

Actual Procedure: MorningStar Operating has permanently plugged and abandoned the Jicarilla 126S4 as of 10/07/2022. Attached are the Daily and Cementing Reports, Final WBD, and CBL.

SR Attachments

Actual Procedure

PA_Dailies__Cement__WBD__CBL_Jicarilla_126S_4_20221013101416.pdf

Well Name: JICARILLA 126 S

Well Location: T24N / R4W / SEC 2 / NENE /

County or Parish/State: RIO ARRIBA / NM

Well Number: 4

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name: JICARILLA APACHE

Lease Number: JIC126

Unit or CA Name:

Unit or CA Number:

US Well Number: 300390565200S1

Well Status: Abandoned

Operator: SOUTHLAND ROYALTY COMPANY

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: OCT 13, 2022 10:14 AM

Name: SOUTHLAND ROYALTY COMPANY

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: 10/18/2022

Signature: Kenneth Rennick

Morningstar Operating LLC

Plug And Abandonment End Of Well Report

Jicarilla 126S #004

1150' FNL & 1120' FEL, Section 2, 24N, 04W

Rio Arriba County, NM / API 30-039-05652

Work Summary:

- 10/3/22** Made BLM and NMOCD P&A operations notifications at 9:00 AM MST.
- 10/4/22** Arrived at previous location and held safety meeting. Moved equipment to new location. R/U P&A rig. Checked well pressures: Tubing 120 psi, Casing: 250 psi, Bradenhead: 0 psi. Bled down well. N/D wellhead. Waited on hardware. N/U BOP and function tested. Set up equipment for 1-1/4" tubing. Removed tubing hanger and L/D 20 joints of 1-1/4" tubing. Secured and shut in well for the day.
- 10/5/22** Arrived on location and held safety meeting. Checked well pressures: Tubing 60 psi, Casing: 160 psi, Bradenhead: 0 psi. Bled down well. Finished laying down 1-1/4" tubing. 107 total joints and a 4' perforated sub. Changed out equipment for 2-3/8" tubing. Prep and tally 2-3/8 work string. P/U 4.5" casing scraper. TIH to 3400' with casing scraper. TOOH. L/D scraper and P/U 4.5" CR. TIH and set CR at 3400'. R/U cementing services. Successfully circulated hole with 40 bbls, pumped 60 bbls total. Attempted to pressure test casing but was unsuccessful. R/D cementers. TOOH. R/U wireline. RIH and logged well. POOH and R/D wireline. Secured and shut in well for the day.
- 10/6/22** Arrived on location and held safety meeting. Checked well pressures: Tubing 0 psi, Casing: 0 psi, Bradenhead: 0 psi TIH to 3400'. R/U cementing services. Pumped plug #1 from 3400' to approximately 2846' to cover the Pictured Cliffs perforations and the Fruitland, Kirtland, and Ojo Alamo formation tops. R/D cementing services. L/D 17 joints and TOOH. WOC 4 hours. TIH and tagged top

of plug #1 at 2814'. L/D 38 joints and TOO. R/U wireline. RIH and perforated at 1575'. POOH and R/D wireline. TIH with 4.5" packer and set at 1544'. Successfully established and injection rate through packer and into perforations at 1575'. Attempted to pressure test casing above packer but was unsuccessful. Unset packer and TOO. L/D packer and P/U 4.5" CR. TIH and set CR at 1550'. R/U cementing services. Pumped cement through CR at 1550' and into perforations at 1575', stung out of CR and pumped cement on top of CR to approximately 1450'. R/D cementing services. L/D 4 joints and TOO. WOC overnight. Secured and shut in well for the day.

10/7/22 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 top of plug #2 at 1355'. TOO. R/U wireline. RIH and perforated at 191'. POOH. TIH with 4.5" packer and set at 157'. Successfully established injection rate through packer and out Bradenhead valve with 8 bbls, pumped 12 bbls total. Attempted to pressure test casing above packer but was unsuccessful. Unset packer and TOO. L/D packer and picked up 4.5" CR. TIH and set CR at 157'. R/U cementing services. Pumped cement through CR, into perforations at 191', and out of Bradenhead Valve at surface. Stung out of CR and pumped cement from top of CR at 157' to surface. R/D cementing services, L/D tubing, R/D floor, ND BOP, N/U WH. WOC 4 hours. Performed wellhead cutoff. Cement was 12' low in 4.5" casing and 10' low in 8.6" casing. R/U cementing services and performed top off in both casing strings. Welded marker in place per all regulations. R/D all equipment and MOL.

Plug Summary:

Plug #1: (Pictured Cliffs Perforations. Pictured Cliffs, Kirtland, Fruitland and Ojo Alamo Fruitland formation top 3,400'-2,814', 37 Sacks Type III Cement)

P/U 4.5" casing scraper. TIH to 3400' with casing scraper. TOO. L/D scraper and P/U 4.5" CR. TIH and set CR at 3400'. R/U cementing services. Successfully circulated hole with 40 bbls, pumped 60 bbls total. Attempted to pressure test casing but was unsuccessful. R/D cementers. TOO. R/U wireline. RIH and logged well. POOH and R/D wireline. TIH and pumped plug #1 from 3400' to approximately 2846' to cover the Pictured Cliffs perforations and the Fruitland, Kirtland, and Ojo Alamo formation tops. R/D cementing services. L/D 17 joints and TOO. WOC 4 hours. TIH and tagged top of plug #1 at 2814'

.Plug #2: (Nacimiento Formation Top 1,575'-1,355', 46 Sacks Type III Cement)

R/U wireline. RIH and perforated at 1575'. POOH and R/D wireline. TIH with 4.5" packer and set at 1544'. Successfully established and injection rate through packer and into perforations at 1575'. Attempted to pressure test casing above packer but was unsuccessful. Unset packer and TOOH. L/D packer and P/U 4.5" CR. TIH and set CR at 1550'. R/U cementing services. Pumped cement through CR at 1550' and into perforations at 1575', stung out of CR and pumped cement on top of CR to approximately 1450'. R/D cementing services. WOC overnight. TIH and tagged top of plug #2 at 1355'.

Plug #3: (Surface Casing Shoe, 157' to surface', 71 Sacks Type III Cement [10 sx for top off])

R/U wireline. RIH and perforated at 191'. POOH. TIH with 4.5" packer and set at 157'. Successfully established injection rate through packer and out Bradenhead valve with 8 bbls, pumped 12 bbls total. Attempted to pressure test casing above packer but was unsuccessful. Unset packer and TOOH. L/D packer and picked up 4.5" CR. TIH and set CR at 157'. R/U cementing services. Pumped cement through CR, into perforations at 191', and out of Bradenhead Valve at surface. Stung out of CR and pumped cement from top of CR at 157' to surface. R/D cementing services. WOC 4 hours. Performed wellhead cutoff. Cement was 12' low in 4.5" casing and 10' low in 8.6" casing. R/U cementing services and performed top off in both casing strings.

P & A Daily Report



Company: Morningstar Operating
 Well Name: Jicarilla 126S #004
 API #: 30-039-05652
 Date: 10/4/2022

PO Box 538 Farmington, NM 87499 505.327.7301

WORK SUMMARY

Arrived at previous location and held safety meeting. Moved equipment to new location. R/U P&A rig. Checked well pressures (see pressures below). Bled down well. N/D wellhead. Waited on hardware. N/U BOP and function tested. Set up equipment for 1-1/4" tubing. Removed tubing hanger and L/D 20 joints of 1-1/4" tubing. 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 _____	_____
Plug 8 _____	To _____	_____
Plug 9 _____	To _____	_____

BRIDGE PLUG/CEMENT RETAINER SUMMARY

Depth Set

WELL PRESSURES

Tubing _____ 120 psi
 Casing _____ 250 psi
 Bradenhead _____ 0 psi

P & A Daily Report



Company: Morningstar Operating
 Well Name: Jicarilla 126S #004
 API #: 30-039-05652
 Date: 10/5/2022

PO Box 538 Farmington, NM 87499 505.327.7301

WORK SUMMARY

Arrived on location and held safety meeting. Checked well pressures (see pressures below). Bled down well. Finished laying down 1-1/4" tubing. 107 total joints and a 4' perforated sub. Changed out equipment for 2-3/8" tubing. Prep and tally 2-3/8 work string. P/U 4.5" casing scraper. TIH to 3400' with casing scraper. TOOH. L/D scraper and P/U 4.5" CR. TIH and set CR at 3400'. R/U cementing services. Successfully circulated hole with 40 bbls, pumped 60 bbls total. Attempted to pressure test casing but was unsuccessful. R/D cementers. TOOH. R/U wireline. RIH and logged well. POOH and R/D wireline. 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 _____	_____
Plug 8	To _____	_____
Plug 9	To _____	_____

BRIDGE PLUG/CEMENT RETAINER SUMMARY

Depth Set
 3400'

WELL PRESSURES

Tubing _____ 60 psi
 Casing _____ 160 psi
 Bradenhead _____ 0 psi

P & A Daily Report



PO Box 538 Farmington, NM 87499 505.327.7301

Company: Morningstar Operating
 Well Name: Jicarilla 126S #004
 API #: 30-039-05652
 Date: 10/6/2022

WORK SUMMARY

Arrived on location and held safety meeting. Checked well pressures (see pressures below). Bled down well. TIH to 3400'. R/U cementing services. Pumped plug #1 from 3400' to approximately 2846' to cover the Pictured Cliffs perforations and the Fruitland, Kirtland, and Ojo Alamo formation tops. R/D cementing services. L/D 17 joints and TOOH. WOC 4 hours. TIH and tagged top of plug #1 at 2814'. L/D 38 joints and TOOH. R/U wireline. RIH and perforated at 1575'. POOH and R/D wireline. TIH with 4.5" packer and set at 1544'. Successfully established and injection rate through packer and into perforations at 1575'. Attempted to pressure test casing above packer but was unsuccessful. Unset packer and TOOH. L/D packer and P/U 4.5" CR. TIH and set CR at 1550'. R/U cementing services. Pumped cement through CR at 1550' and into perforations at 1575', stung out of CR and pumped cement on top of CR to approximately 1450'. R/D cementing services. L/D 4 joints and 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	3400'	37 sx Type III Cement
Plug 2	1575'	46 sx Type III Cement (39 sx inside, 7 outside)
Plug 3		
Plug 4		
Plug 5		
Plug 6		
Plug 7		
Plug 8		
Plug 9		

BRIDGE PLUG/CEMENT RETAINER SUMMARY

<u>Depth Set</u>
3400'
1550'

WELL PRESSURES

Tubing	0 psi
Casing	0 psi
Bradenhead	0 psi

P & A Daily Report



Company: Morningstar Operating
 Well Name: Jicarilla 126S #004
 API #: 30-039-05652
 Date: 10/7/2022

PO Box 538 Farmington, NM 87499 505.327.7301

WORK SUMMARY

Arrived on location and held safety meeting. Checked well pressures (see pressures below). Bled down well. TIH and tagged top of plug #2 at 1355'. TOOH. R/U wireline. RIH and perforated at 191'. POOH. TIH with 4.5" packer and set at 157'. Successfully established injection rate through packer and out Bradenhead valve with 8 bbls, pumped 12 bbls total. Attempted to pressure test casing above packer but was unsuccessful. Unset packer and TOOH. L/D packer and picked up 4.5" CR. TIH and sec CR at 157'. R/U cementing services. Pumped cement through CR, into perforations at 191', and out of Bradenhead Valve at surface. Stung out of CR and pumped cement from top of CR at 157' to surface. R/D cementing services, L/D tubing, R/D floor, ND BOP, N/U WH. WOC 4 hours. Preformed wellhead cutoff. Cement was 12' low in 4.5" casing and 10' low in 8.6" casing. R/U cementing services and performed top off in both casing strings. Welded marker in place per all regulations. R/D all equipment and MOL.

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 3400'	To 2814'	37 sx Type III Cement
Plug 2 1575'	To 1355'	46 sx Type III Cement
Plug 3 157'	To surface	71 sx Type III Cement (10 for top off)
Plug 4	To	
Plug 5	To	
Plug 6	To	
Plug 7	To	
Plug 8	To	
Plug 9	To	

BRIDGE PLUG/CEMENT RETAINER SUMMARY

WELL PRESSURES

<u>Depth Set</u>
3400'
1550'

Tubing	0 psi
Casing	0 psi
Bradenhead	0 psi

MorningStar Operating, LLC

P&A WBD

Prepared by: JRyza
Updated by: JRyza
Date: 10/11/2022

KB = 10'
GL = 7,213'
API# 30-039-05652

Spud Date: 01/24/1957
Date Completed: 02/12/1957

Jicarilla 126 S 4
Rio Arriba County, NM

All depths include KB
TD - 3,583'

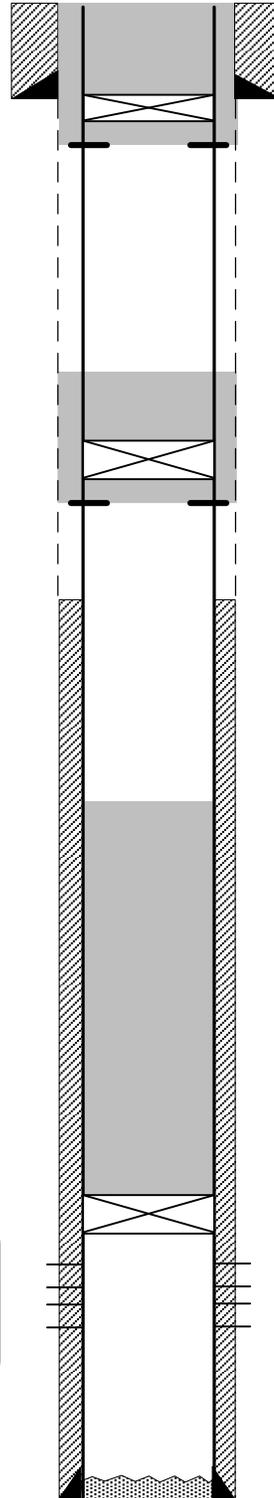
Surface Csg: 4 jts 7-5/8" 24# 8rd
Setting Depth: 141'

Cement
125 sx Cement
Cmt circulated

Production Hole: 6-3/4"
Production Csg: 162 jts 4-1/2" 9.5# 8rd
Setting Depth: 3,583'

Cement:
150 sx cement

Nacimiento - 1,525'
Ojo Alamo - 2,946'
Kirtland - 3,138'
Fruitland - 3,265'
Picture Cliffs - 3,428'



PLUG 3
Perf 4-1/2" casing at 191'
CICR set @ 157'
Circulate 71 sx cmt 0' - 191'

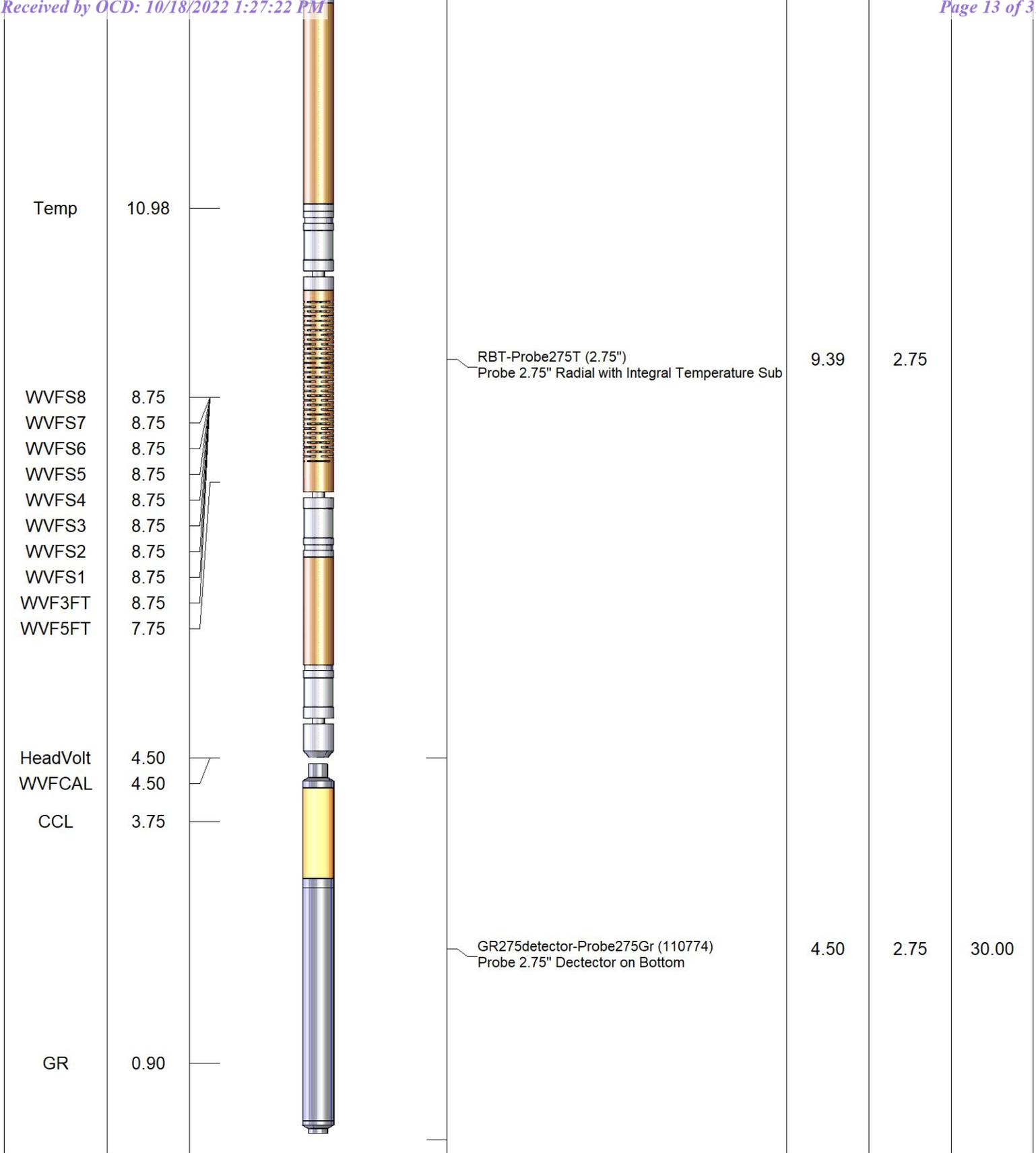
PLUG 2 (Nacimiento)
Perf 4-1/2" casing at 1,575'
CICR set @ 1550'
46 sx cement 1,355' - 1,575'

PLUG 1 (Ojo Alamo, Kirtland, PC)
37 sx cement 2,814' - 3,400'

CICR set @ 3,400'

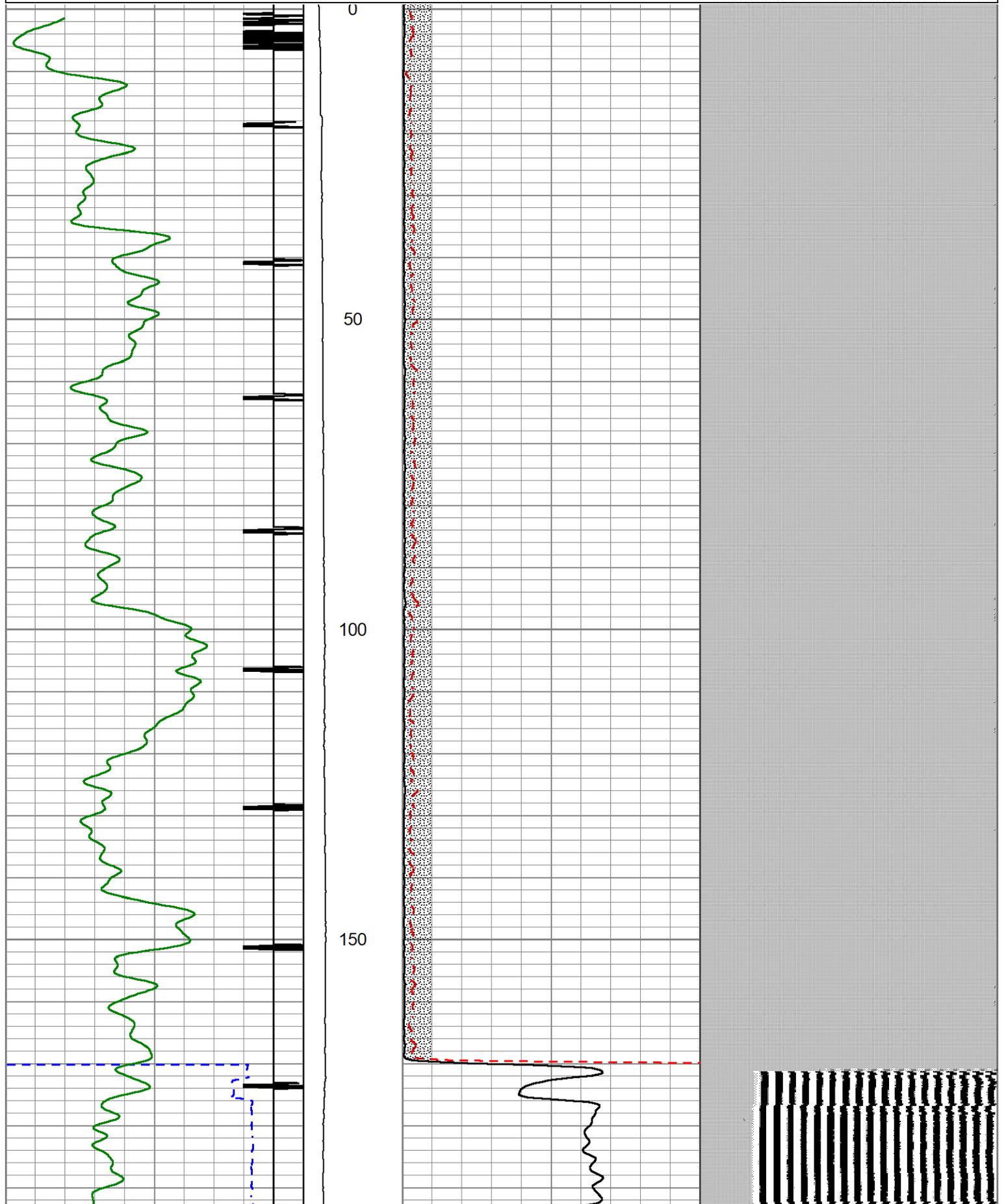
Picture Cliffs Perfs (1957):
3,440'-3,478',
3,488'-3,520'

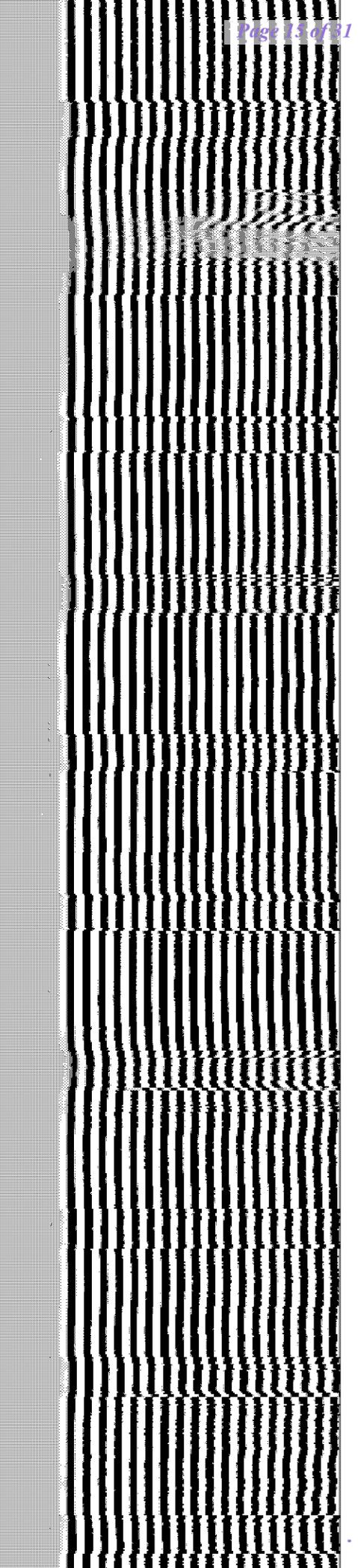
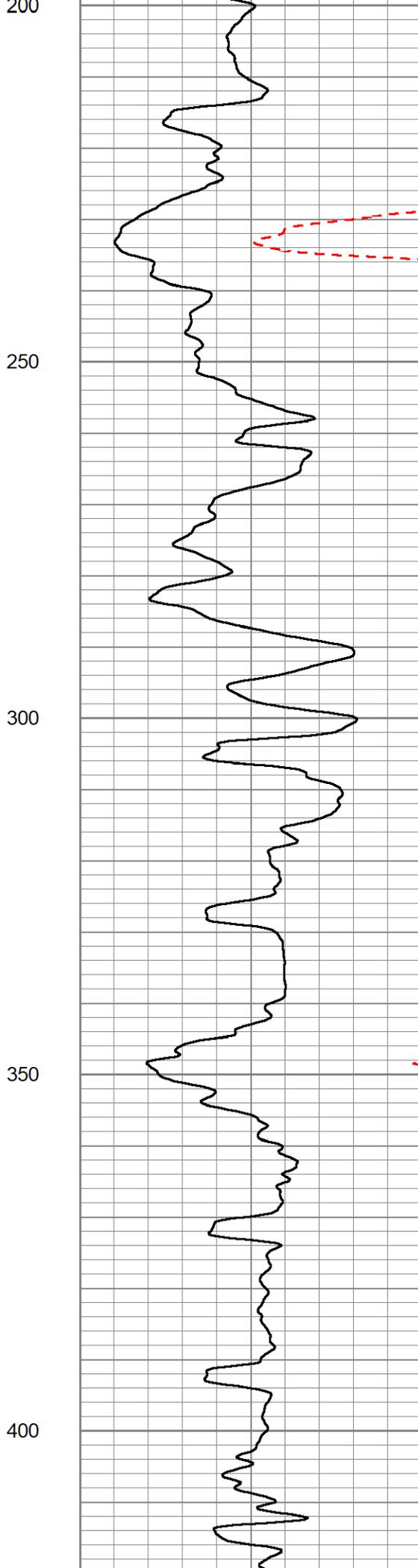
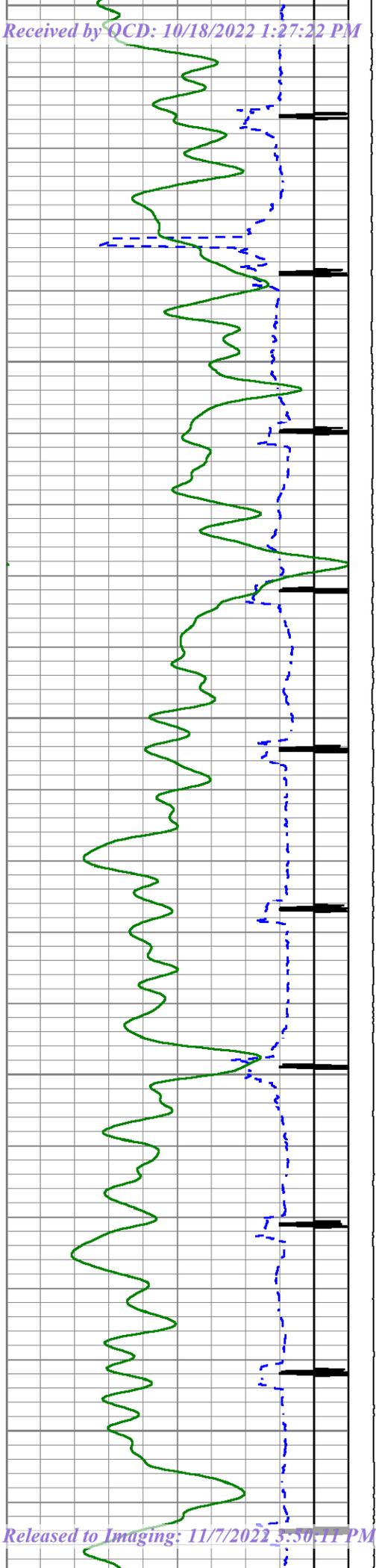
PBTD: 3,580'

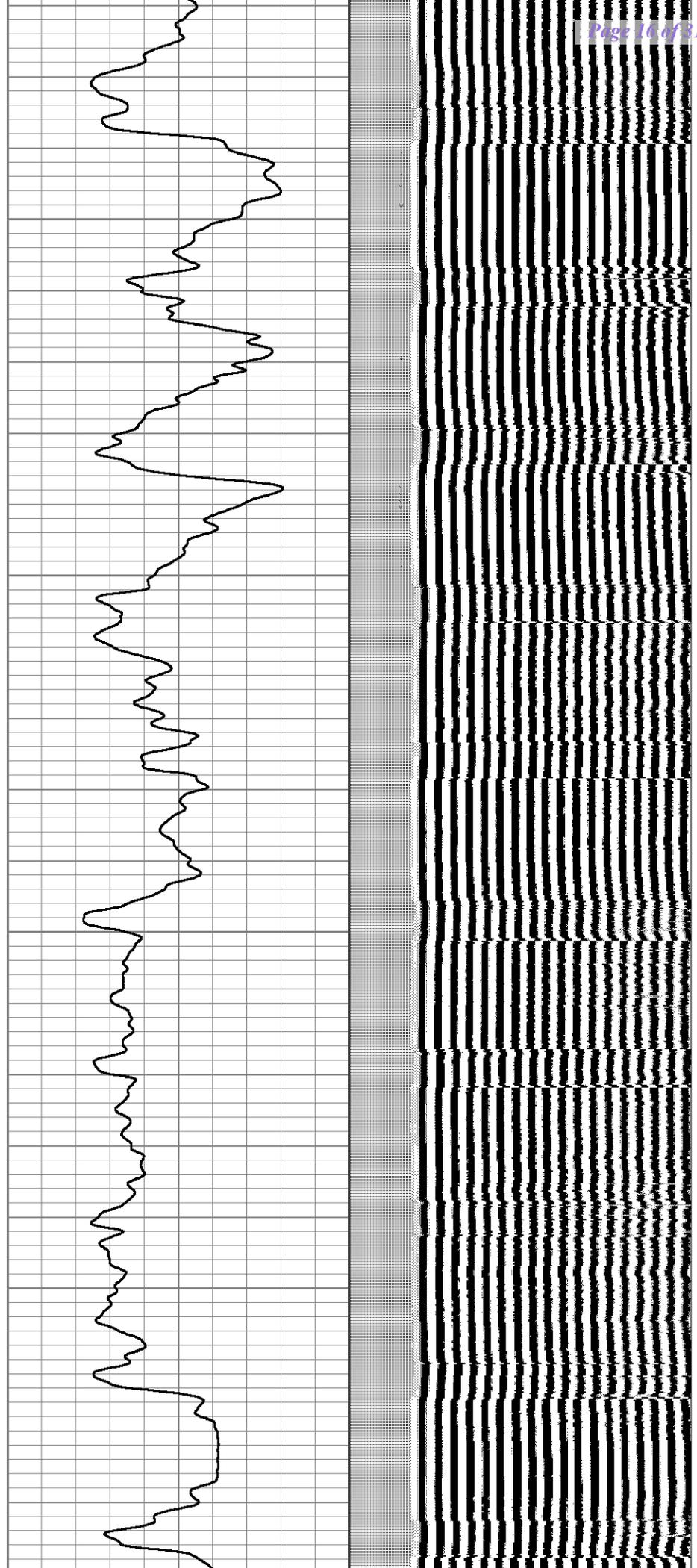
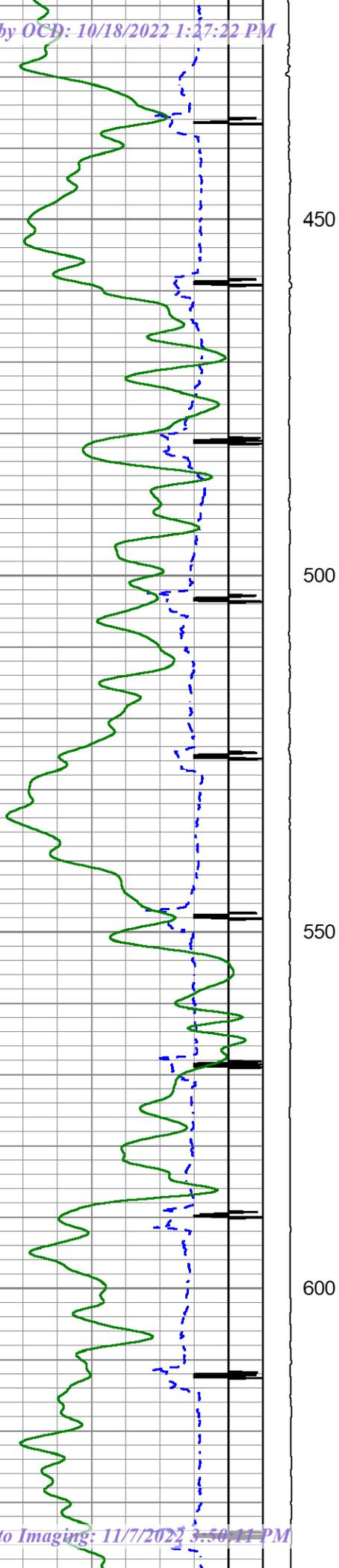


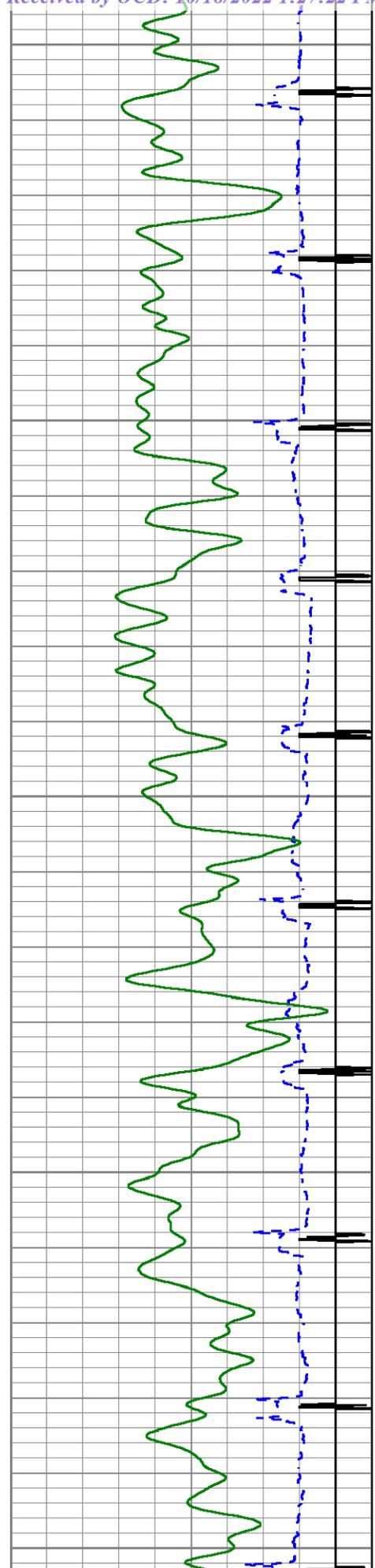
Dataset: jicarilla 126 s #4.db: field/well/run1/pass5.2
 Total length: 14.89 ft
 Total weight: 40.00 lb
 O.D.: 2.75 in

350	TRAVEL TIME (usec)	250	LTEN	0	AMP AMPLITUDE (mV)	20	200	VDL (usec)	1200
9	Collar Locator	-1	0	(lb2000	0	AMPLITUDE (mV)	100		
0	Gamma Ray (GAPI)	200							









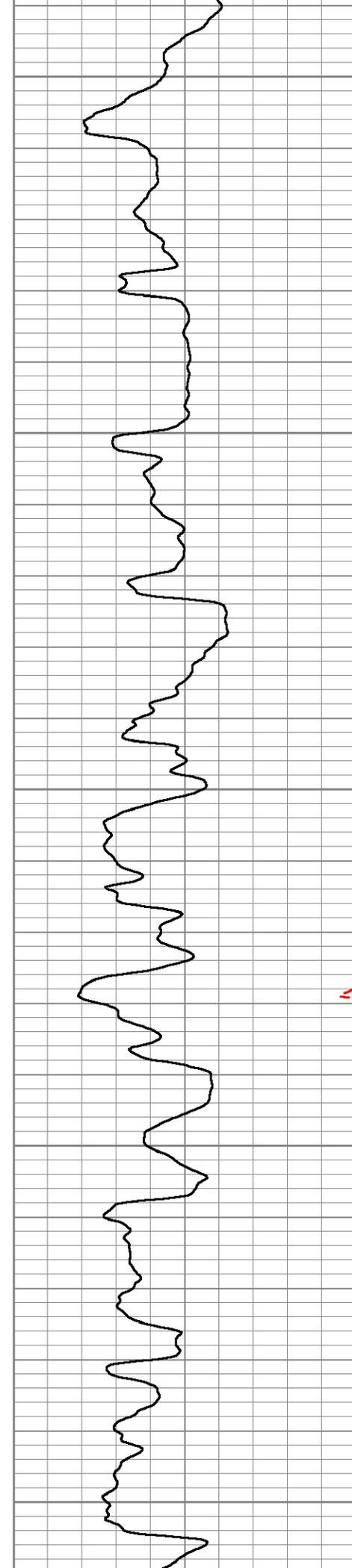
650

700

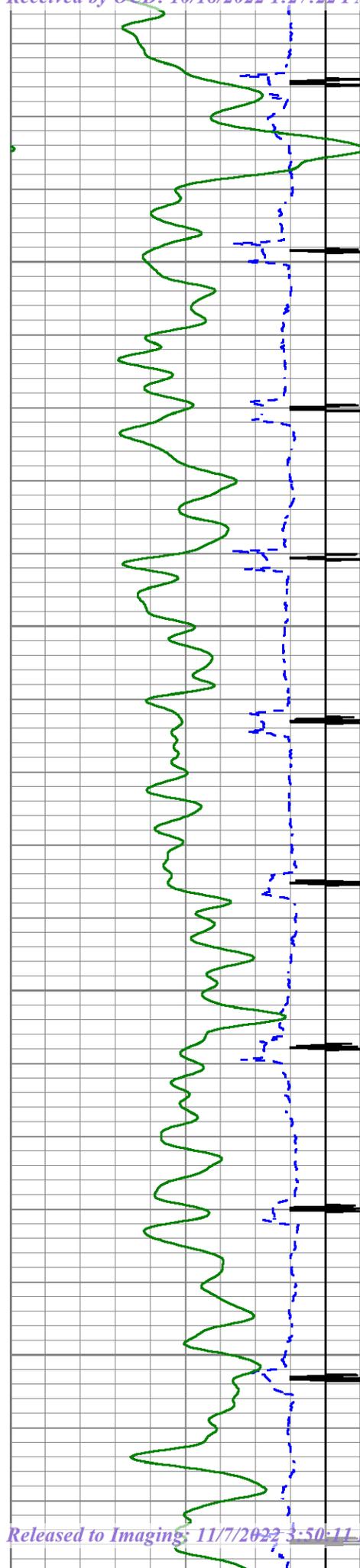
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800

850



N

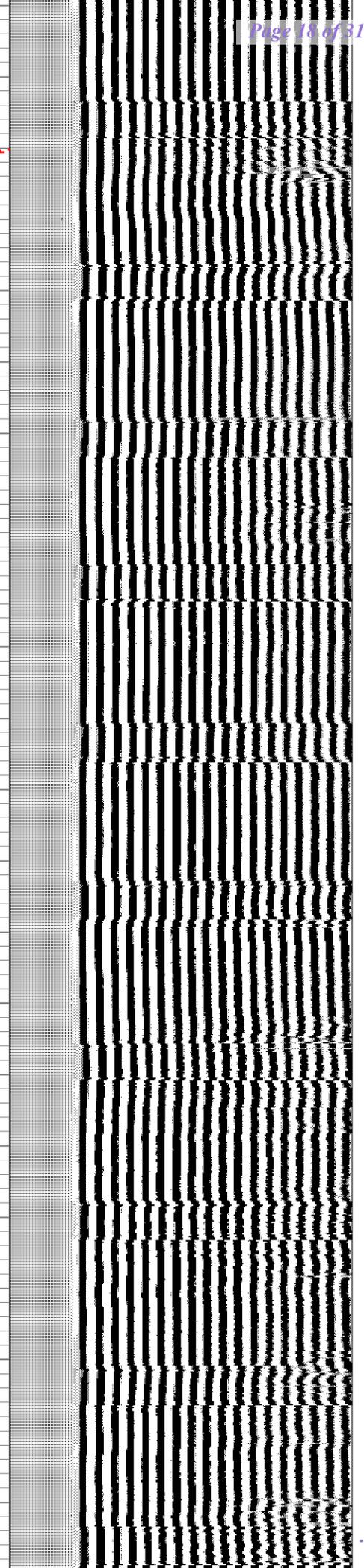
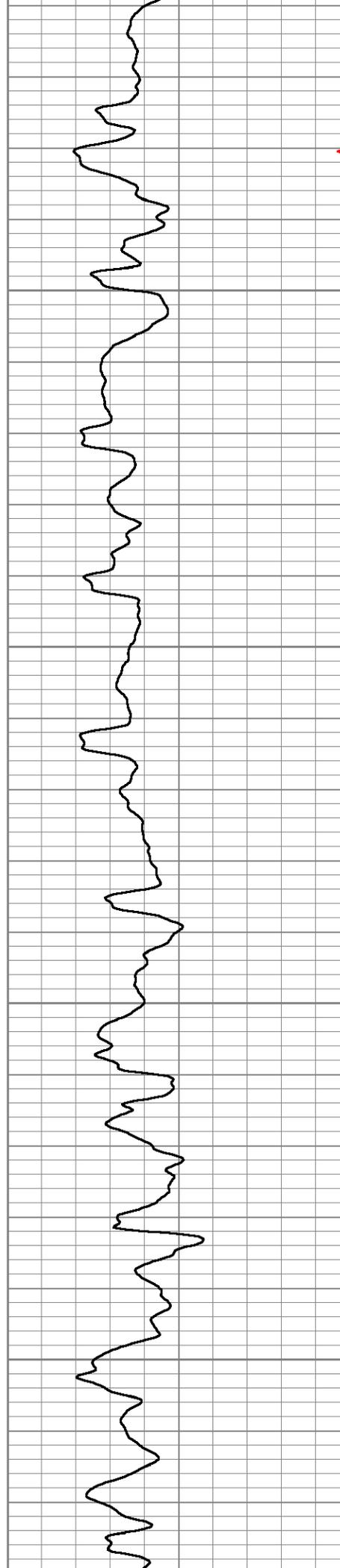


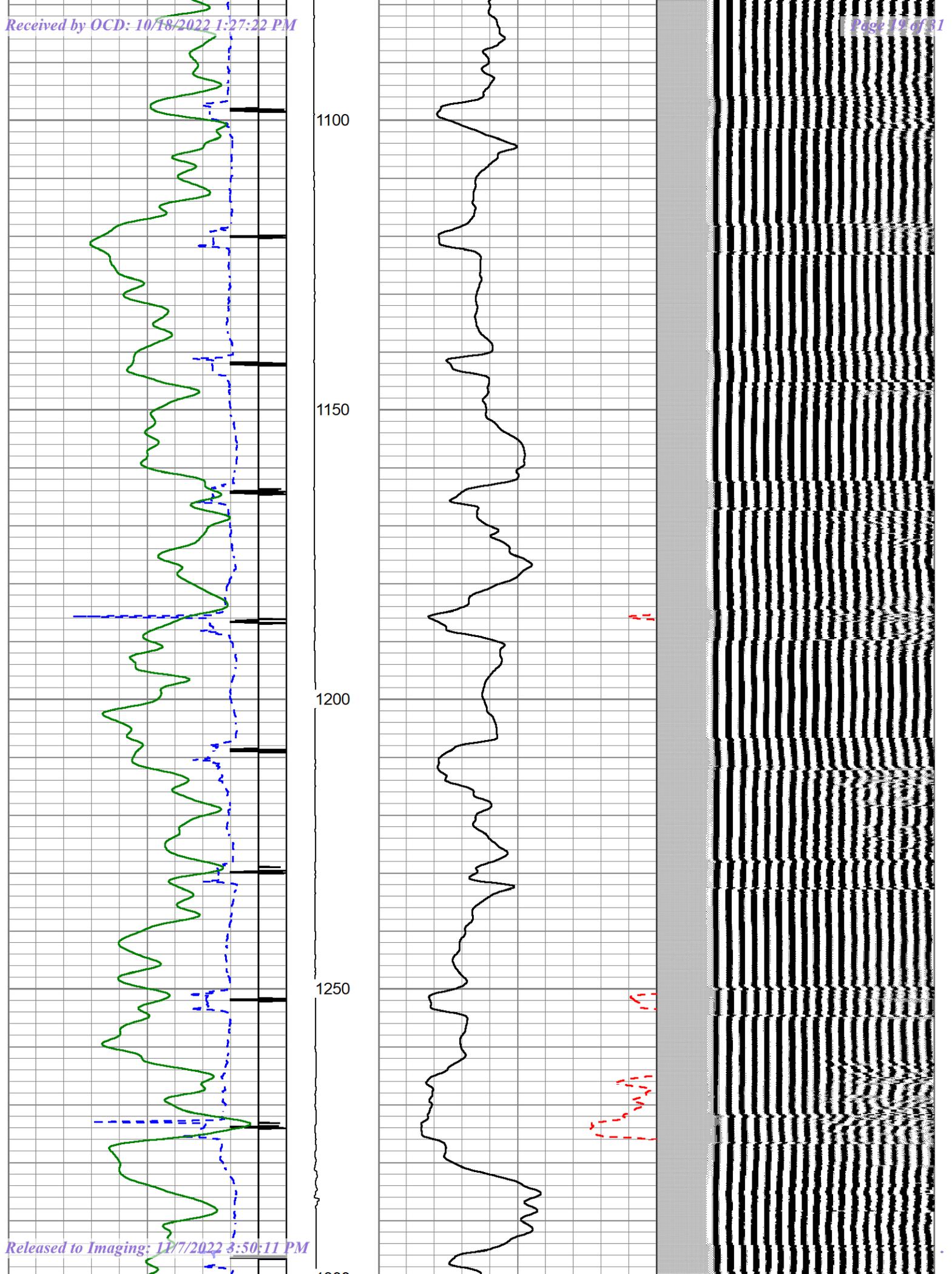
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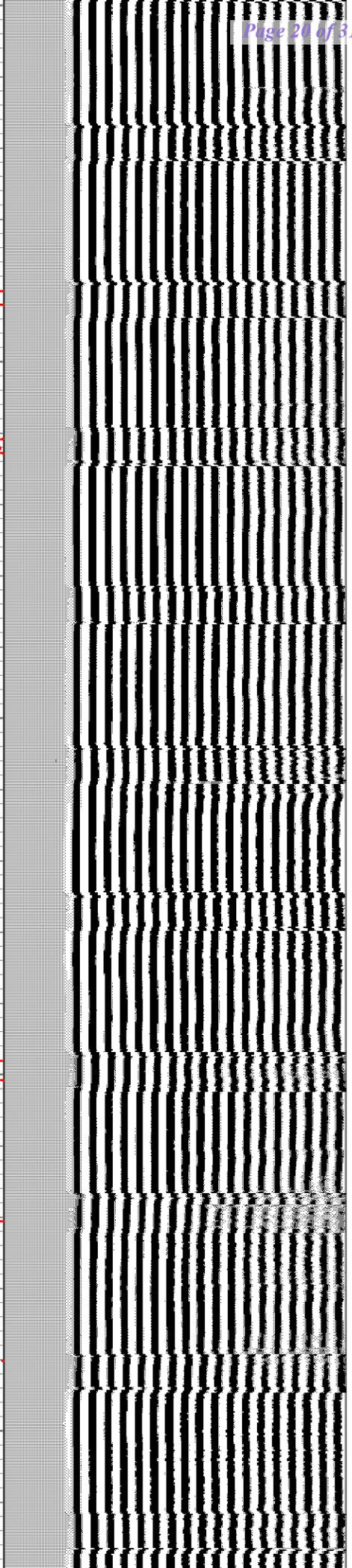
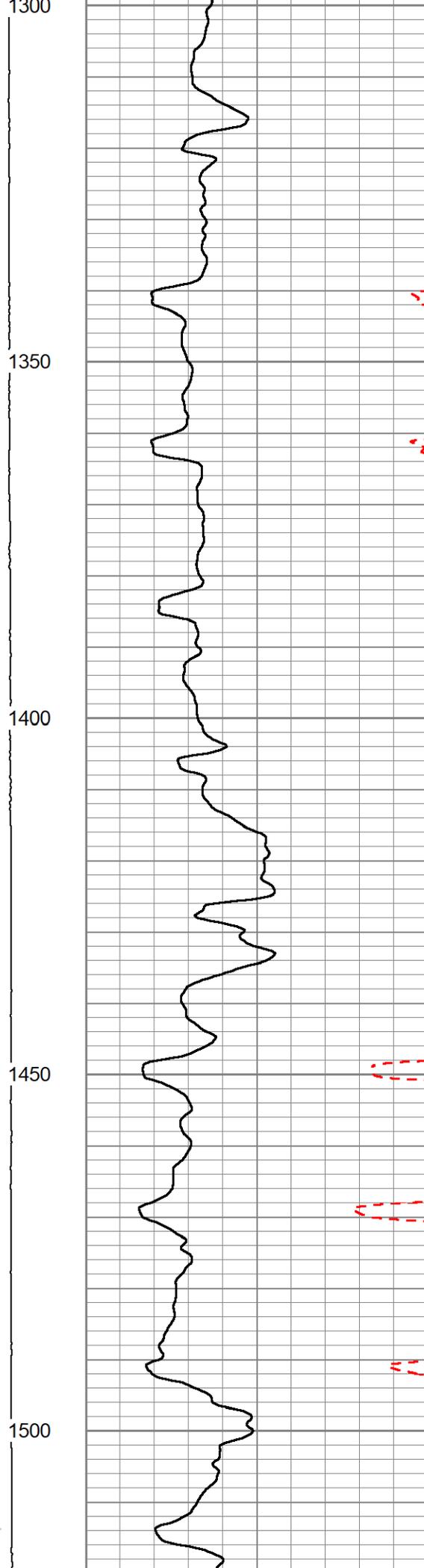
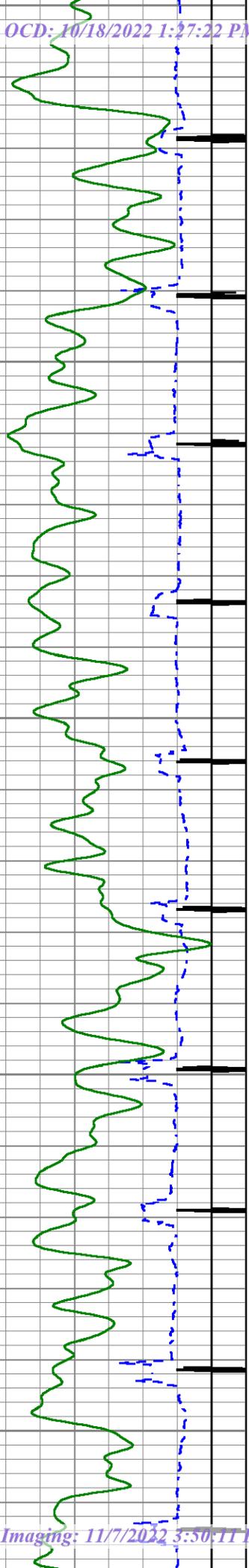
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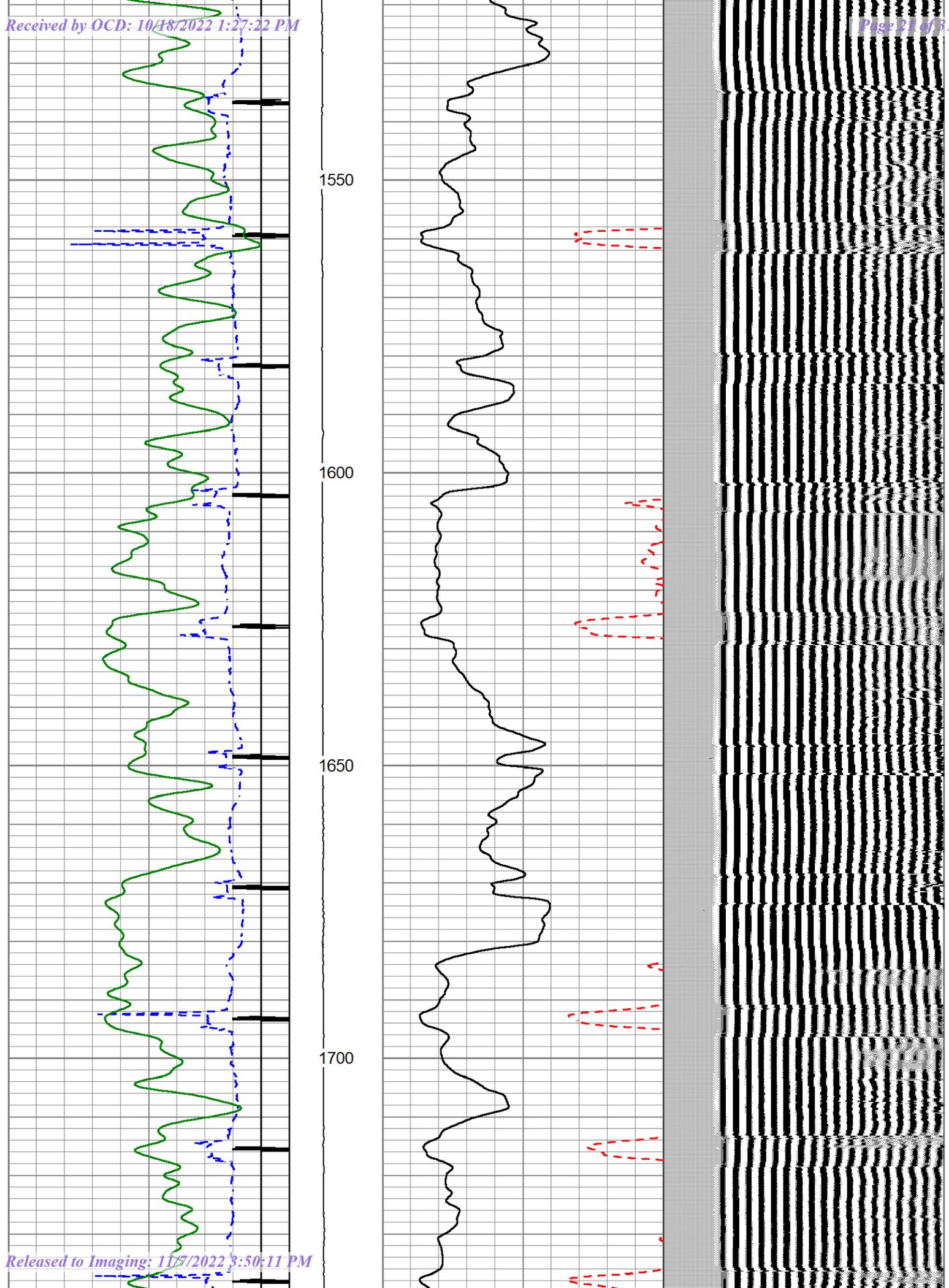
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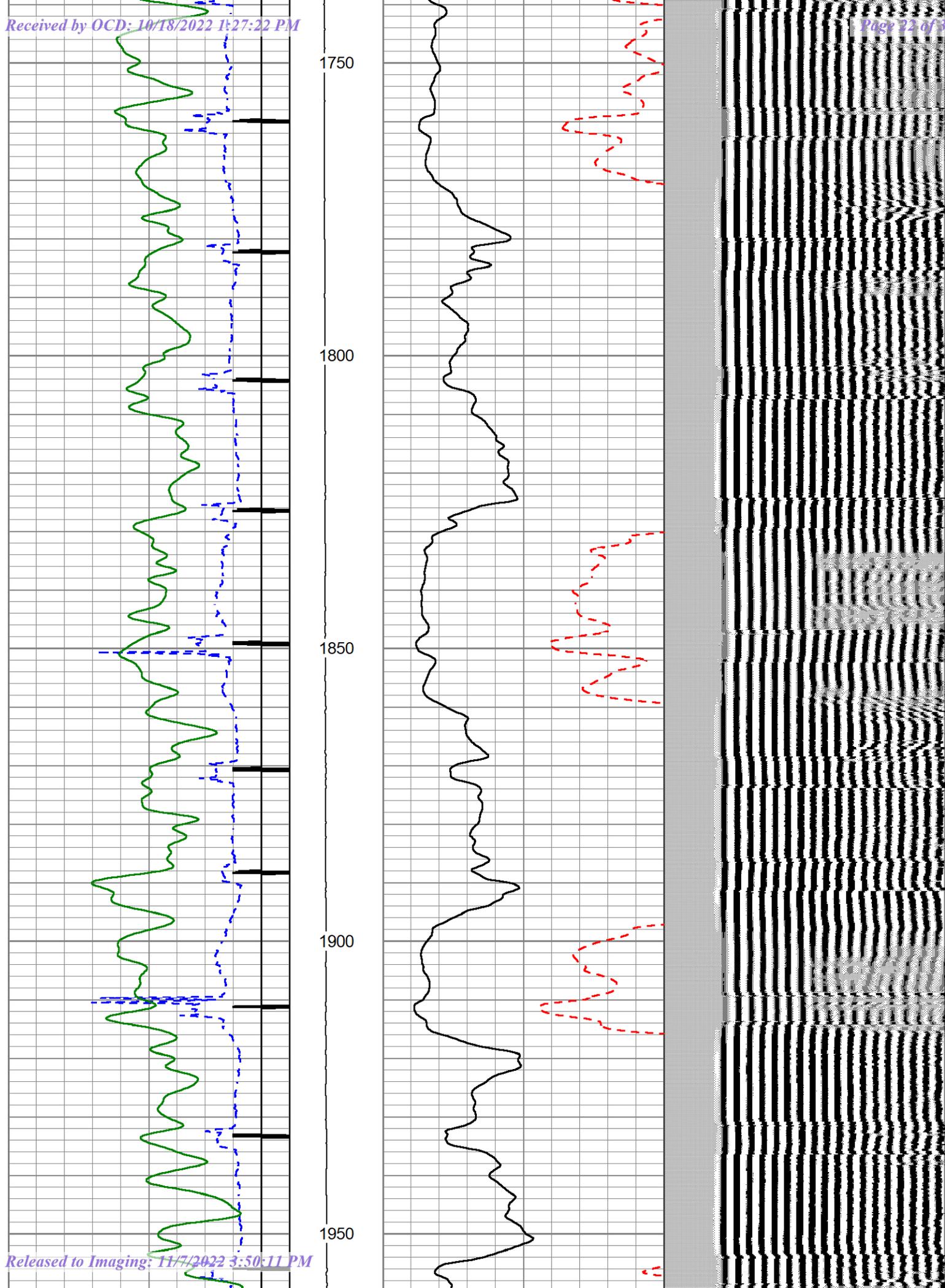
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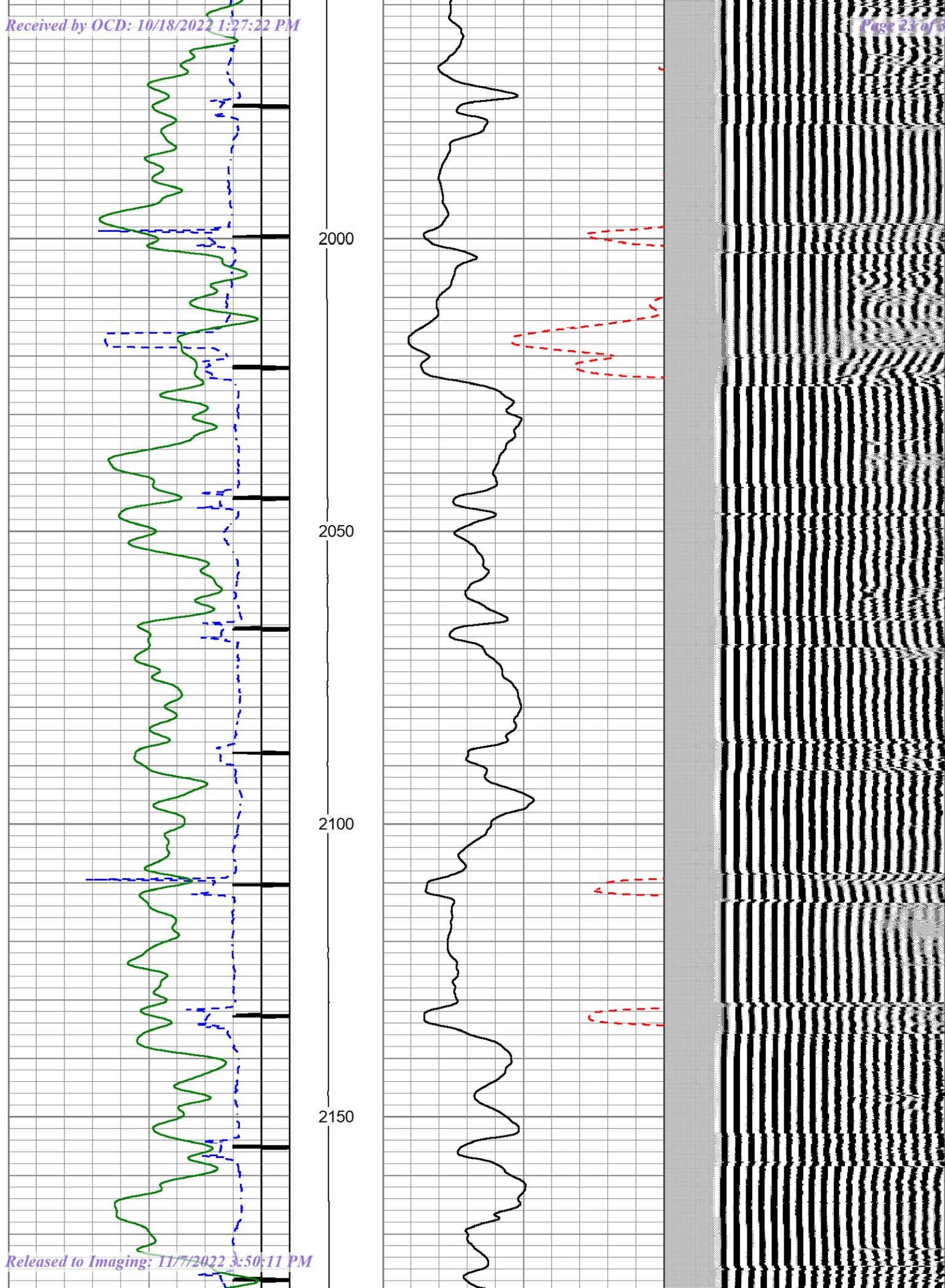


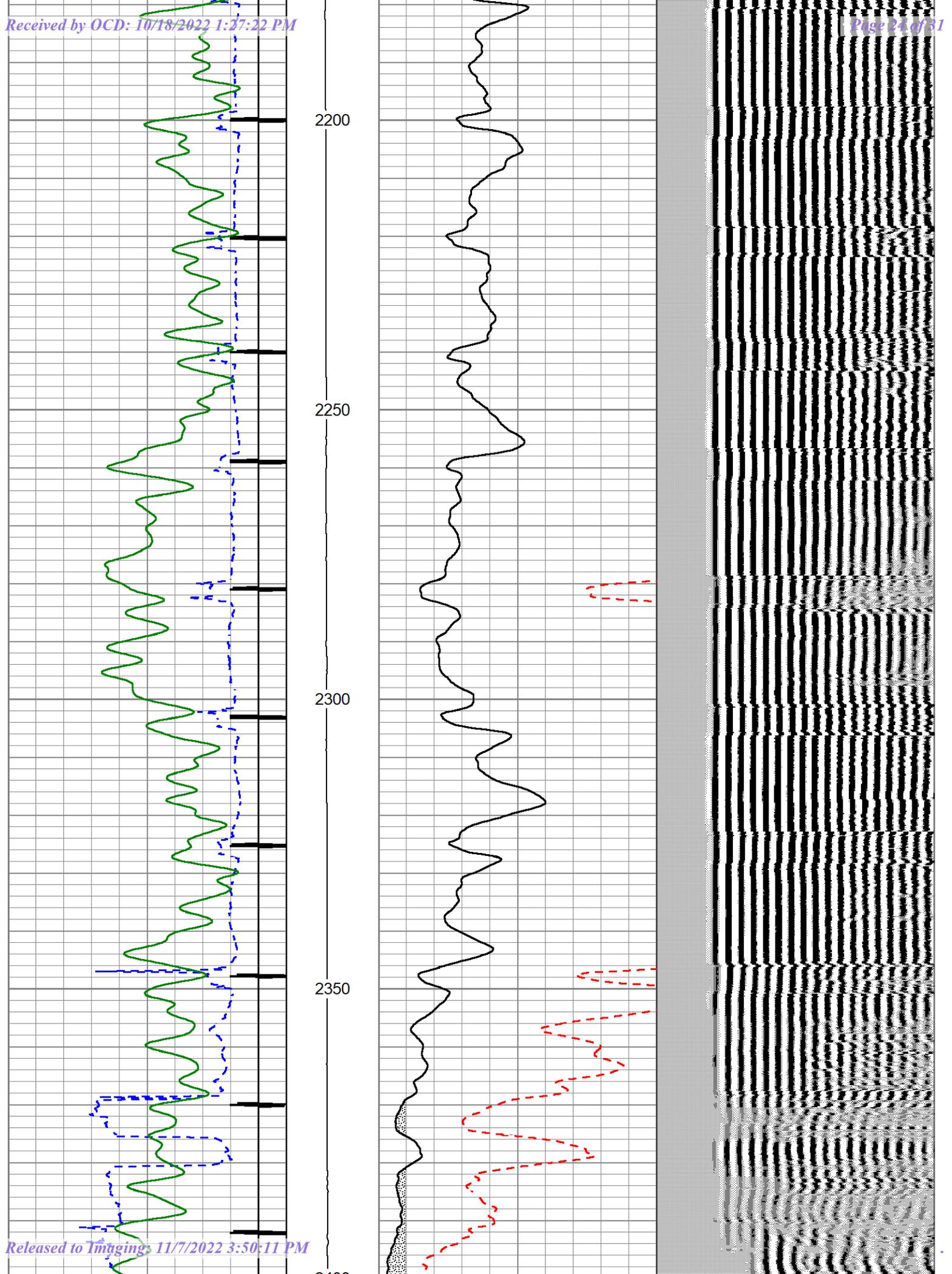


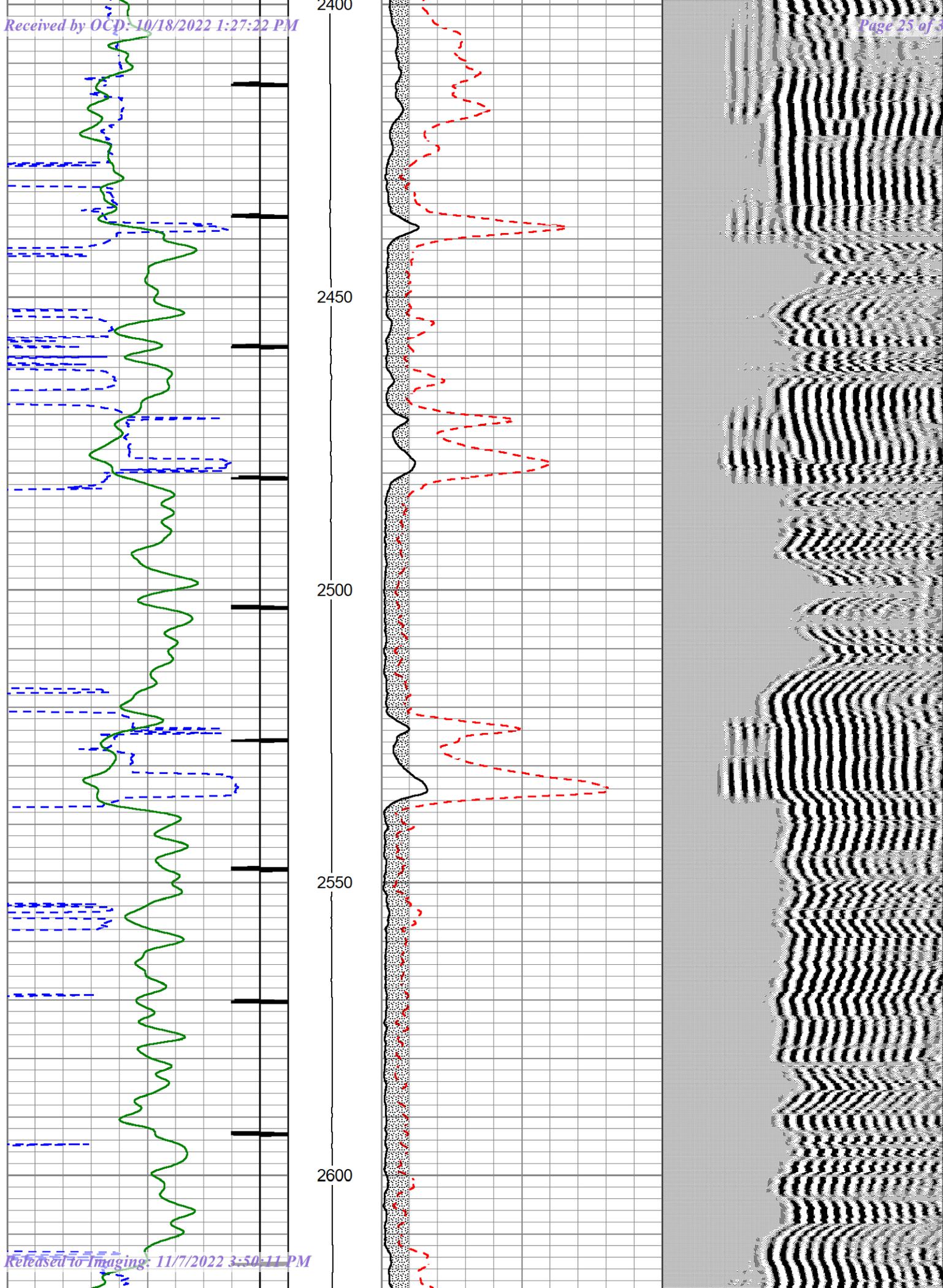


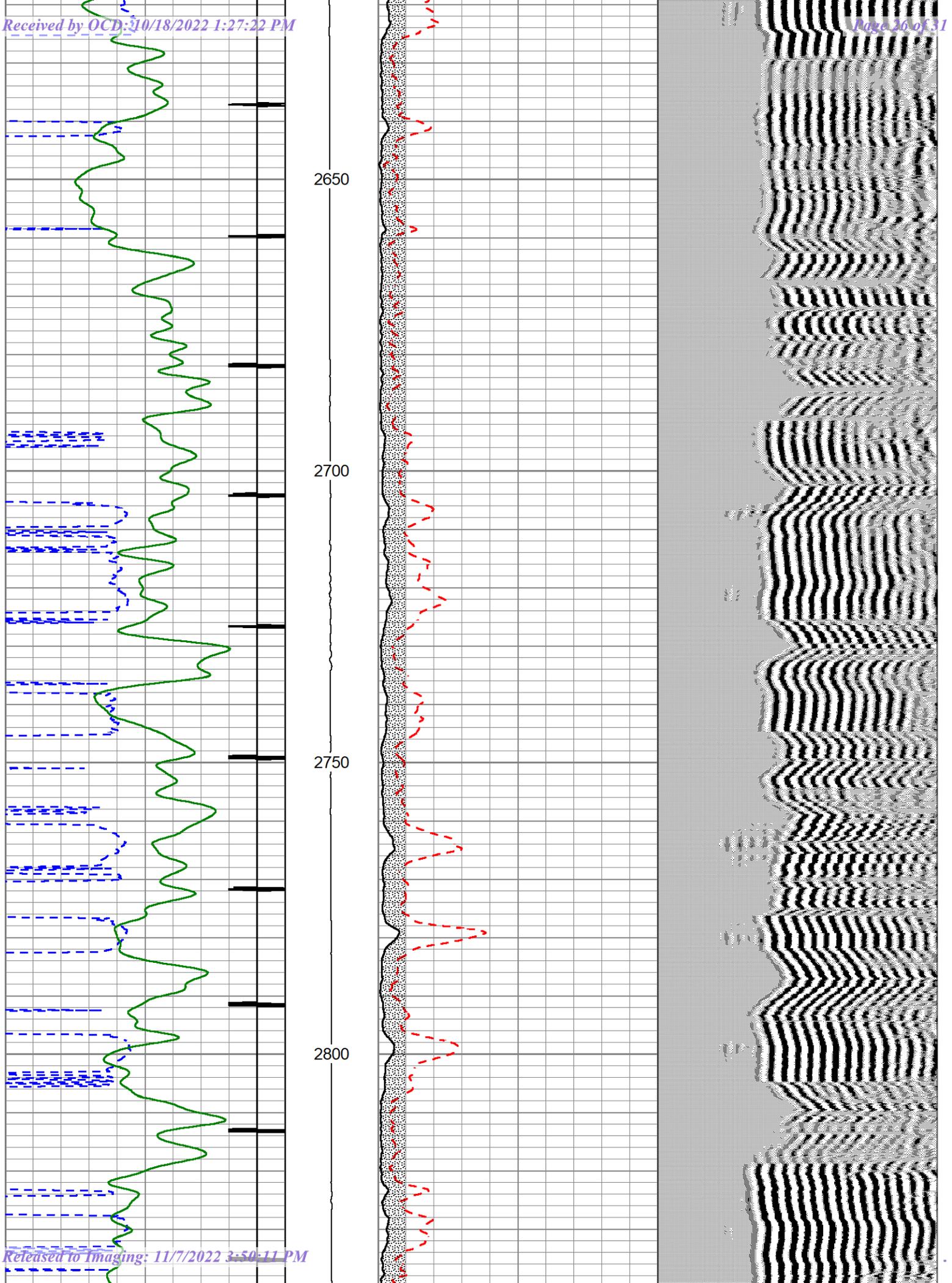


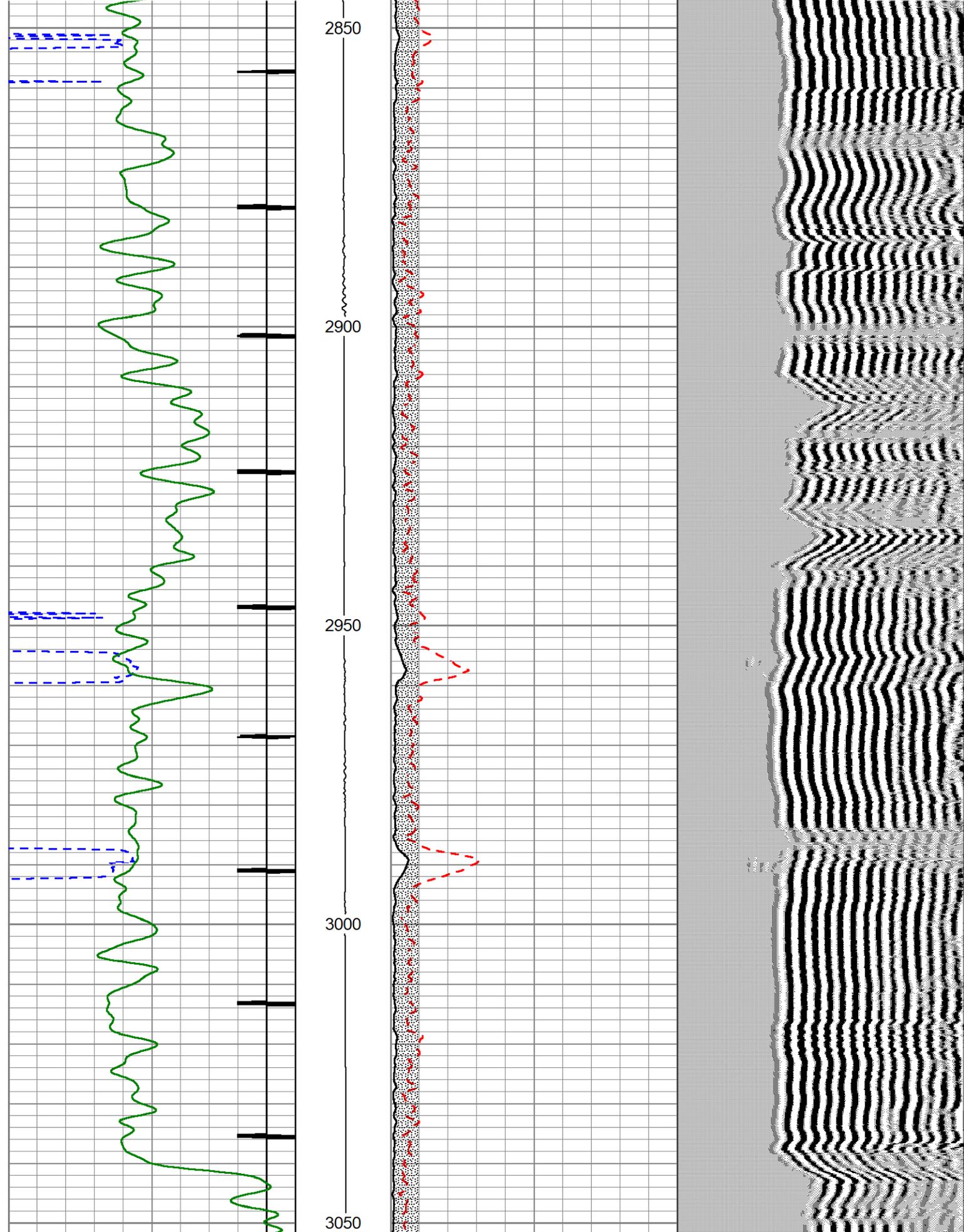


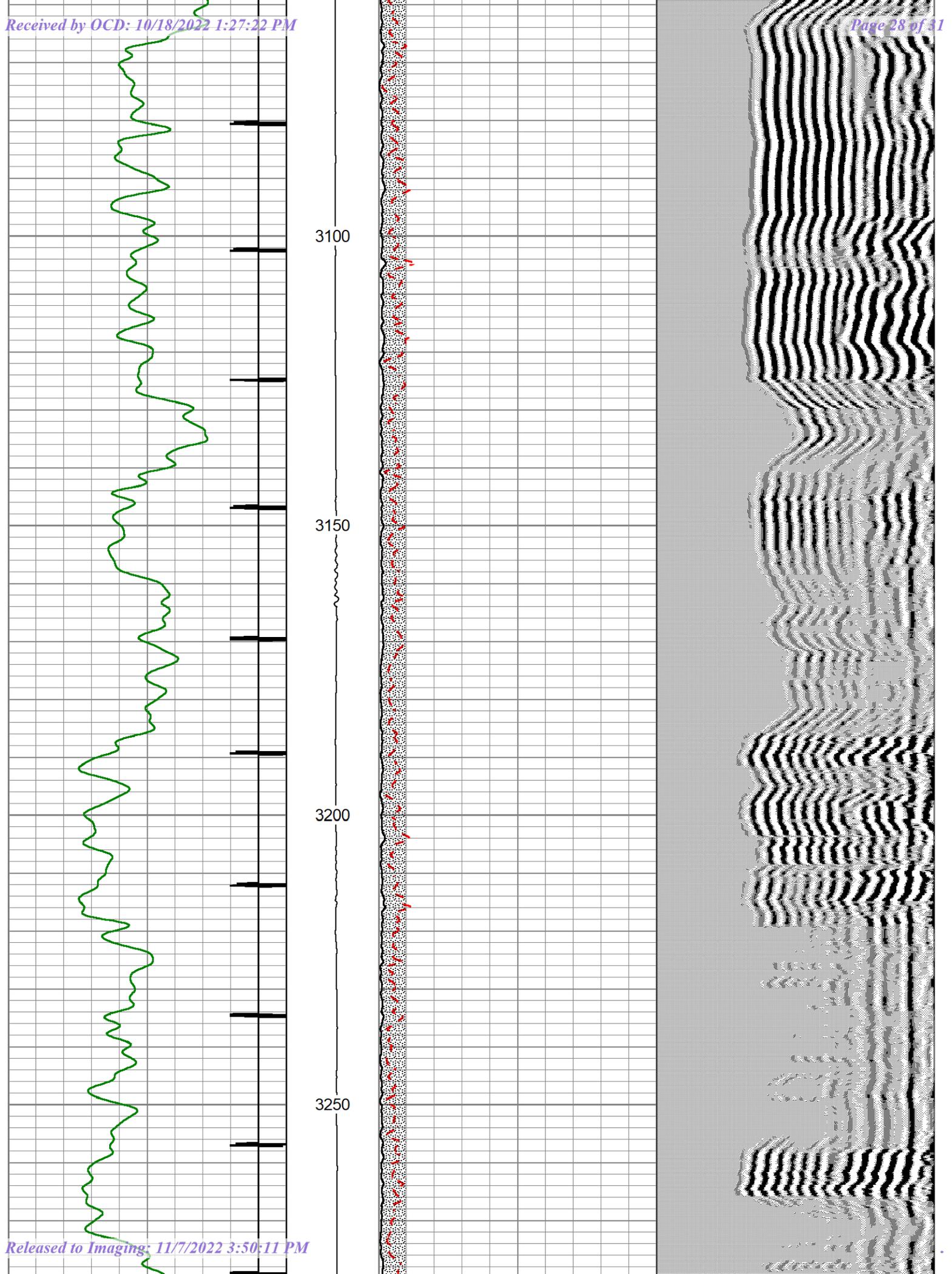


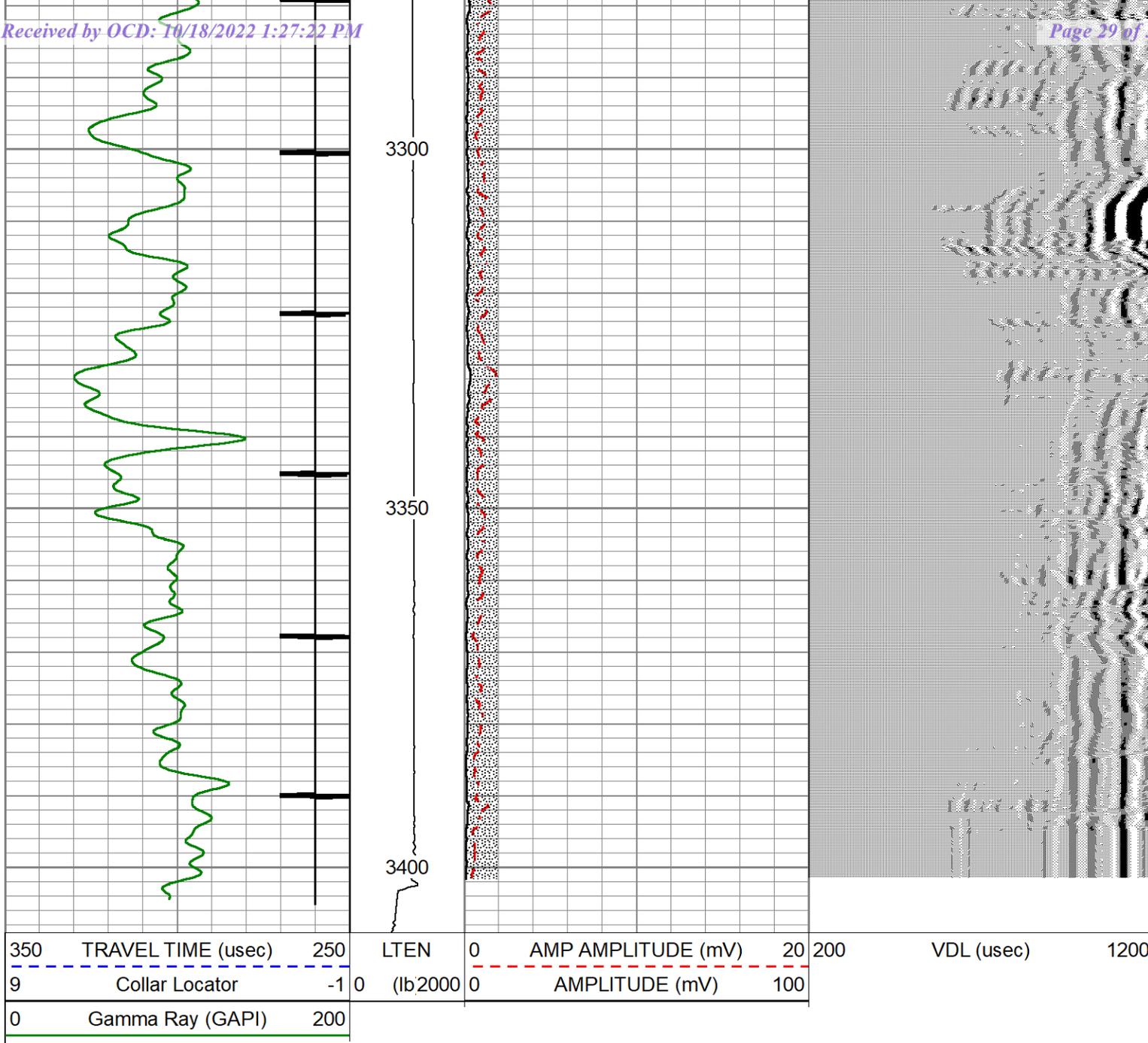












Calibration Report

Database File jicarilla 126 s #4.db
 Dataset Pathname pass5.2
 Dataset Creation Wed Oct 05 17:44:14 2022

Gamma Ray Calibration Report

Serial Number: 110774
 Tool Model: Probe275Gr
 Performed: (Not Performed)

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: 2.75"

Calibration Casing Diameter: 4.500 in
 Calibration Depth: 653.258 ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.003	1.261	0.250	81.196	64.021	0.454
CAL	0.007	1.298				
5'	-0.013	0.989	0.250	81.196	80.814	1.296
SUM						
S1	-0.008	1.366	0.000	91.000	66.262	0.501
S2	-0.001	1.332	0.000	91.000	68.240	0.072
S3	-0.004	1.339	0.000	91.000	67.776	0.280
S4	-0.006	1.296	0.000	91.000	69.916	0.395
S5	-0.004	1.301	0.000	91.000	69.755	0.271
S6	-0.005	1.296	0.000	91.000	69.974	0.329
S7	-0.004	1.326	0.000	91.000	68.450	0.254
S8	-0.002	1.382	0.000	91.000	65.780	0.105

Internal Reference Calibration, performed Mon Apr 11 10:16:33 2016:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.007	1.298	1.000	0.000

Air Zero Calibration, performed Wed May 11 16:04:44 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	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

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 151709

CONDITIONS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 151709
	Action Type: [C-103] Sub. Plugging (C-103P)

CONDITIONS

Created By	Condition	Condition Date
smcgrath	well plugged 10/7/22	11/7/2022