

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Caza Operating LLC 200 N. Lorraine St. #1550, Midland, TX 79701		² OGRID Number 249099
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30 - 0 25-47458	⁵ Pool Name WC-025 G-08 S203506D; Bone Spring	⁶ Pool Code 97983
⁷ Property Code 32869 X 330237	⁸ Property Name Talon 5-8 Federal	⁹ Well Number 2H

II. ¹⁰ Surface Location

UL or lot no. L2	Section 5	Township 20S	Range 35E	Lot Idn	Feet from the 205	North/South Line North	Feet from the 1455	East/West line East	County Lea
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¹¹ Bottom Hole Location

UL or lot no. G	Section 8	Township 20S	Range 35E	Lot Idn	Feet from the 2550	North/South line North	Feet from the 1952	East/West line East	County Lea
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 12/23/2021	¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date		

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
34053	Plains Marketing, LP 333 Clay St. #1600, Houston, TX 77002	O
703107	Lucid Energy Group, LLC3100 McKinnon Street, Suite 800 Dallas, TX 88240	G
371643	Solaris Midstream LLC 9811 Katy Freeway Suite 700 Houston, TX 77024 United States	W

IV. Well Completion Data

²¹ Spud Date 6/10/2021	²² Ready Date 12/23/2021	²³ TD 18250	²⁴ PBDT 18215	²⁵ Perforations 10740-18215	²⁶ DHC, MC	
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set		³⁰ Sacks Cement
17.5		13.375		2097		1740
12.25		9.625		5534		2565
8.75		5.5		18232		3325
		2.875		10662		

V. Well Test Data

³¹ Date New Oil 12/25/2021	³² Gas Delivery Date 12/24/2021	³³ Test Date 01/02/2022	³⁴ Test Length 24hrs	³⁵ Tbg. Pressure 2754	³⁶ Csg. Pressure 300
³⁷ Choke Size 30/64	³⁸ Oil 272	³⁹ Water 1048	⁴⁰ Gas 274		⁴¹ Test Method P
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 			OIL CONSERVATION DIVISION		
Printed name: Steve Morris			Approved by: John Garcia		
Title: Engineer			Title:		
E-mail Address: steve.morris@morcorengineering.com			Approval Date: 9/15/2022		
Date: 1/4/2021		Phone: 985-415-9729			

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

¹ API Number 30-025-47458	² Pool Code 97983	³ Pool Name WC-025 G-08 S203506D; Bone Spring
⁴ Property Code 328897	Property Name TALON 5-8 STATE FED COM	
⁷ OGRID No. 249099	⁸ Operator Name CAZA OPERATING LLC	⁶ Well Number 2H
		⁹ Elevation 3693'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L 2	5	20S	35E		205	NORTH	1455	EAST	LEA
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	8	20S	35E		2550	NORTH	1952	EAST	LEA
¹² Dedicated Acres 241.34	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

		¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <u>Steve Morris</u> Date: <u>10/24/2021</u> Printed Name: <u>Steve Morris</u> E-mail Address: <u>steve.morris@morcorengineering.com</u>
CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 805578.81' / Y: 586569.72' B - X: 805626.38' / Y: 581247.30' C - X: 805648.62' / Y: 578601.12' D - X: 804328.13' / Y: 578592.03' E - X: 804305.57' / Y: 581242.58' F - X: 804256.92' / Y: 586557.35' CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 764397.88' / Y: 586506.69' B - X: 764445.30' / Y: 581184.44' C - X: 764467.45' / Y: 578538.34' D - X: 763147.00' / Y: 578529.23' E - X: 763124.52' / Y: 581179.69' F - X: 763076.02' / Y: 586494.30'		¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well surface location shown on this plat was plotted from field notes of the as-staked surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Data used for underground measurements were provided by others for reference only and does not constitute field measurements performed by R-Squared Global. OCTOBER 22, 2021 Date of Survey Signature and Seal of Professional Surveyor: <u>David W. Myers</u> Certificate Number: <u>DAVID W. MYERS 11403</u>

Distances/areas relative to NAD 83 Combined Scale Factor: 0.999981205 Convergence Angle: 00°26'57.22001"

☐ Horizontal Spacing Unit

CAZA OPERATING LLC

**Lea County, NM
Talon 5-8 State Fed
2H**

OH

Design: OH

Standard Survey Report

15 October, 2021

Survey Report

Company:	CAZA OPERATING LLC	Local Co-ordinate Reference:	Well 2H
Project:	Lea County, NM	TVD Reference:	3693+23 @ 3716.00usft (Citadel 4)
Site:	Talon 5-8 State Fed	MD Reference:	3693+23 @ 3716.00usft (Citadel 4)
Well:	2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Multi User

Project	Lea County, NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Talon 5-8 State Fed			
Site Position:		Northing:	586,388.50 usft	Latitude:	32.609105
From:	Map	Easting:	805,447.28 usft	Longitude:	-103.475629
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.46 °

Well	2H					
Well Position	+N/-S	0.00 usft	Northing:	586,363.46 usft	Latitude:	32.609036
	+E/-W	0.00 usft	Easting:	805,447.59 usft	Longitude:	-103.475628
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,693.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	9/13/2021	6.33	60.50	47,839

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	183.28	

Survey Program	Date	10/14/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
144.00	5,474.00	Survey #1 (OH)	MWD OWSG Rev5	OWSG MWD - Standard	
5,593.00	18,195.00	Survey #2 (OH)	MWD+HRGM OWSG Rev	OWSG MWD + HRGM	
18,250.00	18,250.00	Survey #3 (OH)	BLIND	OWSG BLIND	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
144.00	0.22	54.96	144.00	0.16	0.23	-0.17	0.15	0.15	0.00	
297.00	0.31	336.92	297.00	0.71	0.30	-0.72	0.22	0.06	-51.01	
389.00	0.09	284.71	389.00	0.96	0.14	-0.96	0.29	-0.24	-56.75	
480.00	0.09	260.80	480.00	0.96	0.00	-0.96	0.04	0.00	-26.27	
572.00	0.31	273.28	572.00	0.96	-0.32	-0.94	0.24	0.24	13.57	
667.00	0.26	289.81	667.00	1.05	-0.78	-1.01	0.10	-0.05	17.40	
759.00	0.31	339.03	758.99	1.36	-1.07	-1.29	0.26	0.05	53.50	
853.00	0.44	1.61	852.99	1.95	-1.15	-1.89	0.21	0.14	24.02	

Survey Report

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Site:	Talon 5-8 State Fed	MD Reference:	3693+23 @ 3716.00usft (Citadel 4)
Well:	2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Multi User

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
948.00	0.57	350.63	947.99	2.78	-1.21	-2.71	0.17	0.14	-11.56	
1,042.00	0.57	342.37	1,041.98	3.69	-1.43	-3.60	0.09	0.00	-8.79	
1,137.00	0.40	322.77	1,136.98	4.41	-1.78	-4.30	0.25	-0.18	-20.63	
1,231.00	0.13	297.28	1,230.98	4.72	-2.07	-4.59	0.31	-0.29	-27.12	
1,326.00	0.35	292.09	1,325.98	4.87	-2.43	-4.73	0.23	0.23	-5.46	
1,421.00	0.35	311.87	1,420.98	5.18	-2.92	-5.00	0.13	0.00	20.82	
1,515.00	0.13	348.69	1,514.98	5.47	-3.15	-5.28	0.27	-0.23	39.17	
1,610.00	0.44	286.03	1,609.98	5.68	-3.53	-5.47	0.42	0.33	-65.96	
1,704.00	0.31	1.70	1,703.97	6.03	-3.86	-5.80	0.50	-0.14	80.50	
1,799.00	0.35	316.26	1,798.97	6.50	-4.06	-6.26	0.27	0.04	-47.83	
1,893.00	0.26	45.65	1,892.97	6.86	-4.10	-6.61	0.46	-0.10	95.10	
1,988.00	0.70	63.66	1,987.97	7.27	-3.43	-7.06	0.48	0.46	18.96	
2,033.00	1.14	56.02	2,032.96	7.64	-2.81	-7.46	1.01	0.98	-16.98	
2,113.00	1.89	61.82	2,112.93	8.71	-0.99	-8.63	0.96	0.94	7.25	
2,177.00	2.37	64.19	2,176.89	9.78	1.13	-9.83	0.76	0.75	3.70	
2,271.00	3.56	67.09	2,270.76	11.76	5.57	-12.06	1.28	1.27	3.09	
2,365.00	3.38	70.52	2,364.59	13.82	10.87	-14.42	0.29	-0.19	3.65	
2,460.00	5.05	65.25	2,459.33	16.51	17.31	-17.47	1.80	1.76	-5.55	
2,554.00	5.32	59.01	2,552.95	20.48	24.80	-21.87	0.66	0.29	-6.64	
2,649.00	5.41	56.98	2,647.53	25.19	32.33	-27.00	0.22	0.09	-2.14	
2,743.00	5.55	47.84	2,741.10	30.66	39.42	-32.86	0.94	0.15	-9.72	
2,838.00	5.93	46.00	2,835.63	37.15	46.35	-39.74	0.44	0.40	-1.94	
2,932.00	6.24	47.84	2,929.10	43.95	53.63	-46.95	0.39	0.33	1.96	
3,027.00	6.20	43.98	3,023.54	51.11	61.02	-54.52	0.44	-0.04	-4.06	
3,122.00	6.29	45.12	3,117.97	58.47	68.27	-62.28	0.16	0.09	1.20	
3,216.00	6.37	38.62	3,211.40	66.18	75.18	-70.37	0.77	0.09	-6.91	
3,311.00	6.77	34.66	3,305.78	74.90	81.65	-79.45	0.64	0.42	-4.17	
3,406.00	7.08	35.63	3,400.08	84.27	88.24	-89.18	0.35	0.33	1.02	
3,500.00	6.42	35.28	3,493.43	93.27	94.65	-98.53	0.70	-0.70	-0.37	
3,594.00	6.11	34.40	3,586.87	101.68	100.52	-107.27	0.35	-0.33	-0.94	
3,689.00	5.89	32.64	3,681.35	109.96	106.00	-115.84	0.30	-0.23	-1.85	
3,783.00	5.32	30.79	3,774.90	117.77	110.83	-123.91	0.64	-0.61	-1.97	
3,877.00	5.14	28.95	3,868.51	125.19	115.10	-131.57	0.26	-0.19	-1.96	
3,972.00	4.66	23.94	3,963.16	132.44	118.73	-139.02	0.68	-0.51	-5.27	
4,066.00	4.66	25.26	4,056.85	139.39	121.91	-146.13	0.11	0.00	1.40	
4,161.00	4.57	22.62	4,151.54	146.37	125.01	-153.28	0.24	-0.09	-2.78	
4,255.00	4.35	22.53	4,245.26	153.12	127.82	-160.18	0.23	-0.23	-0.10	
4,349.00	3.91	18.75	4,339.02	159.45	130.21	-166.64	0.55	-0.47	-4.02	
4,443.00	3.69	11.72	4,432.81	165.44	131.86	-172.72	0.55	-0.23	-7.48	
4,538.00	3.30	8.64	4,527.63	171.14	132.89	-178.46	0.46	-0.41	-3.24	
4,632.00	2.99	7.06	4,621.49	176.25	133.60	-183.60	0.34	-0.33	-1.68	
4,727.00	2.90	3.99	4,716.37	181.11	134.07	-188.48	0.19	-0.09	-3.23	
4,821.00	1.85	356.25	4,810.28	184.99	134.13	-192.36	1.17	-1.12	-8.23	

Survey Report

Company:	CAZA OPERATING LLC	Local Co-ordinate Reference:	Well 2H
Project:	Lea County, NM	TVD Reference:	3693+23 @ 3716.00usft (Citadel 4)
Site:	Talon 5-8 State Fed	MD Reference:	3693+23 @ 3716.00usft (Citadel 4)
Well:	2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Multi User

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,916.00	1.54	353.88	4,905.24	187.79	133.90	-195.14	0.33	-0.33	-2.49	
5,010.00	1.05	346.23	4,999.22	189.88	133.56	-197.21	0.55	-0.52	-8.14	
5,105.00	0.92	335.42	5,094.20	191.42	133.03	-198.72	0.24	-0.14	-11.38	
5,199.00	0.92	332.52	5,188.19	192.78	132.37	-200.04	0.05	0.00	-3.09	
5,294.00	1.14	257.64	5,283.18	193.25	131.10	-200.44	1.33	0.23	-78.82	
5,388.00	1.05	256.50	5,377.16	192.85	129.35	-199.94	0.10	-0.10	-1.21	
5,474.00	0.97	260.45	5,463.15	192.55	127.86	-199.55	0.12	-0.09	4.59	
5,593.00	0.97	252.14	5,582.13	192.07	125.91	-198.96	0.12	0.00	-6.98	
5,688.00	3.30	266.64	5,677.06	191.66	122.41	-198.35	2.50	2.45	15.26	
5,783.00	7.08	268.22	5,771.65	191.32	113.83	-197.52	3.98	3.98	1.66	
5,877.00	10.07	268.58	5,864.59	190.94	99.82	-196.34	3.18	3.18	0.38	
5,972.00	11.03	268.84	5,957.99	190.55	82.43	-194.95	1.01	1.01	0.27	
6,067.00	10.59	268.31	6,051.30	190.11	64.62	-193.49	0.47	-0.46	-0.56	
6,161.00	10.11	267.78	6,143.77	189.53	47.74	-191.95	0.52	-0.51	-0.56	
6,255.00	10.51	269.37	6,236.25	189.12	30.92	-190.58	0.52	0.43	1.69	
6,350.00	10.46	265.67	6,329.67	188.37	13.66	-188.85	0.71	-0.05	-3.89	
6,444.00	10.15	260.58	6,422.15	186.37	-3.02	-185.89	1.02	-0.33	-5.41	
6,539.00	10.95	263.04	6,515.55	183.91	-20.23	-182.45	0.97	0.84	2.59	
6,633.00	12.04	267.96	6,607.66	182.48	-38.89	-179.95	1.56	1.16	5.23	
6,727.00	12.00	268.31	6,699.60	181.84	-58.46	-178.20	0.09	-0.04	0.37	
6,822.00	11.96	268.84	6,792.53	181.35	-78.17	-176.58	0.12	-0.04	0.56	
6,916.00	11.78	268.58	6,884.52	180.92	-97.50	-175.04	0.20	-0.19	-0.28	
7,010.00	11.60	268.75	6,976.57	180.47	-116.54	-173.51	0.19	-0.19	0.18	
7,105.00	11.16	270.33	7,069.70	180.32	-135.28	-172.28	0.57	-0.46	1.66	
7,199.00	10.90	270.86	7,161.97	180.50	-153.27	-171.44	0.30	-0.28	0.56	
7,293.00	10.55	271.48	7,254.33	180.86	-170.76	-170.79	0.39	-0.37	0.66	
7,388.00	10.33	271.48	7,347.75	181.30	-187.97	-170.25	0.23	-0.23	0.00	
7,482.00	10.11	271.04	7,440.26	181.67	-204.64	-169.66	0.25	-0.23	-0.47	
7,577.00	9.71	271.12	7,533.84	181.98	-220.99	-169.04	0.42	-0.42	0.08	
7,671.00	9.49	271.48	7,626.53	182.33	-236.66	-168.49	0.24	-0.23	0.38	
7,766.00	9.14	269.72	7,720.27	182.50	-252.03	-167.78	0.47	-0.37	-1.85	
7,860.00	10.42	270.86	7,812.91	182.59	-268.00	-166.96	1.38	1.36	1.21	
7,955.00	11.56	272.27	7,906.16	183.09	-286.10	-166.43	1.23	1.20	1.48	
8,049.00	10.29	272.09	7,998.46	183.77	-303.90	-166.08	1.35	-1.35	-0.19	
8,144.00	11.21	268.49	8,091.79	183.84	-321.61	-165.14	1.20	0.97	-3.79	
8,239.00	10.68	267.61	8,185.06	183.23	-339.64	-163.50	0.58	-0.56	-0.93	
8,333.00	8.57	268.14	8,277.73	182.64	-355.34	-162.01	2.25	-2.24	0.56	
8,428.00	9.05	266.64	8,371.61	181.97	-369.88	-160.51	0.56	0.51	-1.58	
8,522.00	10.02	267.26	8,464.31	181.15	-385.43	-158.80	1.04	1.03	0.66	
8,617.00	8.31	265.85	8,558.10	180.26	-400.53	-157.04	1.82	-1.80	-1.48	
8,712.00	8.13	265.76	8,652.12	179.26	-414.08	-155.28	0.19	-0.19	-0.09	
8,806.00	9.01	266.47	8,745.07	178.32	-428.05	-153.53	0.94	0.94	0.76	
8,901.00	7.87	261.28	8,839.04	176.87	-441.91	-151.30	1.44	-1.20	-5.46	

Survey Report

Company:	CAZA OPERATING LLC	Local Co-ordinate Reference:	Well 2H
Project:	Lea County, NM	TVD Reference:	3693+23 @ 3716.00usft (Citadel 4)
Site:	Talon 5-8 State Fed	MD Reference:	3693+23 @ 3716.00usft (Citadel 4)
Well:	2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Multi User

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,995.00	7.56	258.20	8,932.19	174.63	-454.32	-148.35	0.55	-0.33	-3.28
9,089.00	6.11	259.43	9,025.52	172.45	-465.29	-145.55	1.55	-1.54	1.31
9,184.00	4.79	257.06	9,120.09	170.63	-474.13	-143.23	1.41	-1.39	-2.49
9,278.00	4.00	255.48	9,213.81	168.93	-481.13	-141.13	0.85	-0.84	-1.68
9,373.00	2.81	265.76	9,308.64	167.93	-486.66	-139.81	1.40	-1.25	10.82
9,467.00	2.77	288.97	9,402.53	168.50	-491.10	-140.12	1.19	-0.04	24.69
9,562.00	2.90	292.66	9,497.42	170.17	-495.49	-141.54	0.24	0.14	3.88
9,656.00	2.86	296.44	9,591.30	172.13	-499.79	-143.25	0.21	-0.04	4.02
9,751.00	2.37	299.78	9,686.20	174.16	-503.61	-145.06	0.54	-0.52	3.52
9,845.00	1.54	308.48	9,780.14	175.91	-506.29	-146.66	0.94	-0.88	9.26
9,940.00	1.85	330.98	9,875.10	178.05	-508.03	-148.69	0.77	0.33	23.68
9,993.00	1.85	330.89	9,928.08	179.54	-508.86	-150.14	0.01	0.00	-0.17
10,076.00	1.71	336.78	10,011.04	181.85	-510.00	-152.37	0.28	-0.17	7.10
10,123.00	3.74	187.54	10,058.01	180.98	-510.48	-151.47	11.24	4.32	-317.53
10,170.00	10.46	180.51	10,104.62	175.18	-510.72	-145.68	14.39	14.30	-14.96
10,217.00	17.23	178.40	10,150.23	163.95	-510.56	-134.47	14.44	14.40	-4.49
10,264.00	21.45	179.37	10,194.57	148.39	-510.27	-118.95	9.00	8.98	2.06
10,312.00	26.15	178.84	10,238.47	129.03	-509.96	-99.64	9.80	9.79	-1.10
10,359.00	30.90	176.47	10,279.76	106.61	-509.01	-77.31	10.39	10.11	-5.04
10,406.00	33.23	174.27	10,319.59	81.75	-506.98	-52.61	5.54	4.96	-4.68
10,453.00	35.60	175.06	10,358.36	55.30	-504.52	-26.35	5.13	5.04	1.68
10,500.00	40.26	177.43	10,395.42	26.48	-502.66	2.32	10.39	9.91	5.04
10,547.00	45.45	179.28	10,429.87	-5.46	-501.76	34.16	11.36	11.04	3.94
10,594.00	51.69	179.45	10,460.95	-40.68	-501.38	69.30	13.28	13.28	0.36
10,642.00	57.67	178.93	10,488.69	-79.82	-500.82	108.34	12.49	12.46	-1.08
10,689.00	63.08	178.31	10,511.91	-120.65	-499.83	149.05	11.57	11.51	-1.32
10,736.00	68.04	177.43	10,531.35	-163.39	-498.23	191.63	10.69	10.55	-1.87
10,783.00	74.11	177.61	10,546.59	-207.79	-496.31	235.85	12.92	12.91	0.38
10,830.00	79.65	178.22	10,557.26	-253.51	-494.65	281.40	11.85	11.79	1.30
10,877.00	84.48	179.45	10,563.74	-300.04	-493.70	327.80	10.60	10.28	2.62
10,924.00	85.98	179.72	10,567.65	-346.87	-493.37	374.53	3.24	3.19	0.57
11,019.00	86.51	178.93	10,573.87	-441.66	-492.25	469.10	1.00	0.56	-0.83
11,113.00	90.95	179.98	10,575.95	-535.61	-491.36	562.85	4.85	4.72	1.12
11,208.00	91.12	179.63	10,574.24	-630.59	-491.03	657.66	0.41	0.18	-0.37
11,302.00	91.03	179.54	10,572.47	-724.58	-490.35	751.44	0.14	-0.10	-0.10
11,396.00	91.43	179.10	10,570.46	-818.55	-489.24	845.20	0.63	0.43	-0.47
11,491.00	88.62	179.72	10,570.42	-913.53	-488.26	939.97	3.03	-2.96	0.65
11,585.00	88.04	179.19	10,573.16	-1,007.49	-487.36	1,033.72	0.84	-0.62	-0.56
11,679.00	87.96	178.58	10,576.44	-1,101.41	-485.54	1,127.39	0.65	-0.09	-0.65
11,774.00	87.96	178.31	10,579.82	-1,196.32	-482.96	1,221.99	0.28	0.00	-0.28
11,868.00	87.82	177.87	10,583.28	-1,290.20	-479.83	1,315.54	0.49	-0.15	-0.47
11,962.00	87.47	177.43	10,587.14	-1,384.04	-475.98	1,409.01	0.60	-0.37	-0.47
12,057.00	88.13	178.75	10,590.79	-1,478.92	-472.81	1,503.54	1.55	0.69	1.39
12,151.00	90.51	180.60	10,591.90	-1,572.90	-472.28	1,597.34	3.21	2.53	1.97

Survey Report

Company:	CAZA OPERATING LLC	Local Co-ordinate Reference:	Well 2H
Project:	Lea County, NM	TVD Reference:	3693+23 @ 3716.00usft (Citadel 4)
Site:	Talon 5-8 State Fed	MD Reference:	3693+23 @ 3716.00usft (Citadel 4)
Well:	2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Multi User

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
12,245.00	91.38	180.25	10,590.35	-1,666.88	-472.98	1,691.21	1.00	0.93	-0.37
12,340.00	91.74	179.81	10,587.77	-1,761.84	-473.03	1,786.02	0.60	0.38	-0.46
12,434.00	92.26	179.63	10,584.49	-1,855.79	-472.57	1,879.78	0.59	0.55	-0.19
12,528.00	91.21	181.56	10,581.64	-1,949.73	-473.55	1,973.63	2.34	-1.12	2.05
12,622.00	90.99	181.91	10,579.84	-2,043.67	-476.39	2,067.58	0.44	-0.23	0.37
12,717.00	91.34	181.65	10,577.90	-2,138.61	-479.34	2,162.53	0.46	0.37	-0.27
12,810.00	92.31	180.95	10,574.94	-2,231.53	-481.45	2,255.42	1.29	1.04	-0.75
12,905.00	89.76	180.16	10,573.23	-2,326.50	-482.37	2,350.29	2.81	-2.68	-0.83
12,999.00	89.63	179.72	10,573.73	-2,420.50	-482.27	2,444.13	0.49	-0.14	-0.47
13,093.00	89.58	178.75	10,574.37	-2,514.49	-481.02	2,537.89	1.03	-0.05	-1.03
13,188.00	89.63	180.42	10,575.03	-2,609.48	-480.33	2,632.69	1.76	0.05	1.76
13,281.00	92.09	180.68	10,573.63	-2,702.46	-481.22	2,725.57	2.66	2.65	0.28
13,376.00	93.05	179.63	10,569.37	-2,797.36	-481.48	2,820.33	1.50	1.01	-1.11
13,470.00	91.03	179.19	10,566.03	-2,891.29	-480.51	2,914.05	2.20	-2.15	-0.47
13,564.00	91.52	178.75	10,563.94	-2,985.25	-478.82	3,007.76	0.70	0.52	-0.47
13,658.00	92.18	178.49	10,560.90	-3,079.18	-476.56	3,101.40	0.75	0.70	-0.28
13,753.00	89.71	179.72	10,559.34	-3,174.14	-475.08	3,196.13	2.90	-2.60	1.29
13,847.00	88.70	179.37	10,560.64	-3,268.13	-474.33	3,289.92	1.14	-1.07	-0.37
13,941.00	90.11	180.77	10,561.62	-3,362.12	-474.44	3,383.76	2.11	1.50	1.49
14,036.00	91.08	180.95	10,560.63	-3,457.10	-475.87	3,478.67	1.04	1.02	0.19
14,130.00	91.47	180.95	10,558.54	-3,551.07	-477.43	3,572.57	0.41	0.41	0.00
14,224.00	91.74	180.95	10,555.90	-3,645.02	-478.99	3,666.45	0.29	0.29	0.00
14,318.00	90.77	180.33	10,553.85	-3,738.99	-480.04	3,760.33	1.22	-1.03	-0.66
14,412.00	89.58	179.98	10,553.56	-3,832.98	-480.29	3,854.19	1.32	-1.27	-0.37
14,507.00	89.49	180.07	10,554.33	-3,927.98	-480.33	3,949.03	0.13	-0.09	0.09
14,601.00	88.70	179.72	10,555.81	-4,021.97	-480.16	4,042.85	0.92	-0.84	-0.37
14,695.00	90.99	179.63	10,556.07	-4,115.96	-479.63	4,136.66	2.44	2.44	-0.10
14,790.00	92.04	179.54	10,553.56	-4,210.92	-478.94	4,231.43	1.11	1.11	-0.09
14,885.00	91.25	179.98	10,550.83	-4,305.88	-478.54	4,326.21	0.95	-0.83	0.46
14,979.00	91.65	179.81	10,548.45	-4,399.85	-478.37	4,420.01	0.46	0.43	-0.18
15,073.00	90.81	180.25	10,546.43	-4,493.83	-478.42	4,513.84	1.01	-0.89	0.47
15,167.00	88.62	179.89	10,546.90	-4,587.82	-478.53	4,607.69	2.36	-2.33	-0.38
15,262.00	88.84	179.54	10,549.01	-4,682.80	-478.06	4,702.48	0.44	0.23	-0.37
15,356.00	89.98	179.54	10,549.97	-4,776.79	-477.31	4,796.27	1.21	1.21	0.00
15,450.00	88.84	179.63	10,550.94	-4,870.78	-476.62	4,890.07	1.22	-1.21	0.10
15,544.00	87.25	179.54	10,554.15	-4,964.72	-475.94	4,983.82	1.69	-1.69	-0.10
15,639.00	87.74	179.54	10,558.30	-5,059.62	-475.18	5,078.52	0.52	0.52	0.00
15,733.00	85.54	179.37	10,563.81	-5,153.45	-474.29	5,172.15	2.35	-2.34	-0.18
15,828.00	85.67	179.10	10,571.09	-5,248.16	-473.02	5,266.63	0.31	0.14	-0.28
15,951.00	87.25	178.94	10,578.68	-5,370.91	-470.93	5,389.05	1.29	1.28	-0.13
16,045.00	89.64	178.98	10,581.24	-5,464.85	-469.22	5,482.75	2.54	2.54	0.04
16,140.00	92.42	178.86	10,579.53	-5,559.81	-467.43	5,577.45	2.93	2.93	-0.13
16,234.00	91.52	179.04	10,576.30	-5,653.74	-465.71	5,671.12	0.98	-0.96	0.19

Survey Report

Company:	CAZA OPERATING LLC	Local Co-ordinate Reference:	Well 2H
Project:	Lea County, NM	TVD Reference:	3693+23 @ 3716.00usft (Citadel 4)
Site:	Talon 5-8 State Fed	MD Reference:	3693+23 @ 3716.00usft (Citadel 4)
Well:	2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.15 Multi User

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
16,328.00	90.46	179.49	10,574.67	-5,747.71	-464.50	5,764.87	1.23	-1.13	0.48
16,423.00	91.84	179.42	10,572.77	-5,842.69	-463.60	5,859.64	1.45	1.45	-0.07
16,517.00	90.57	180.38	10,570.79	-5,936.66	-463.44	5,953.45	1.69	-1.35	1.02
16,612.00	91.96	179.99	10,568.69	-6,031.64	-463.74	6,048.29	1.52	1.46	-0.41
16,706.00	91.08	178.59	10,566.20	-6,125.59	-462.58	6,142.03	1.76	-0.94	-1.49
16,801.00	90.00	178.09	10,565.30	-6,220.55	-459.83	6,236.67	1.25	-1.14	-0.53
16,895.00	88.91	175.86	10,566.20	-6,314.41	-454.87	6,330.09	2.64	-1.16	-2.37
16,989.00	90.09	175.73	10,567.02	-6,408.15	-447.97	6,423.28	1.26	1.26	-0.14
17,084.00	90.66	175.66	10,566.40	-6,502.88	-440.84	6,517.45	0.60	0.60	-0.07
17,178.00	90.32	178.24	10,565.59	-6,596.73	-435.84	6,610.86	2.77	-0.36	2.74
17,272.00	90.38	179.82	10,565.02	-6,690.71	-434.25	6,704.60	1.68	0.06	1.68
17,366.00	90.78	179.62	10,564.07	-6,784.71	-433.79	6,798.41	0.48	0.43	-0.21
17,461.00	89.86	180.39	10,563.54	-6,879.71	-433.80	6,893.26	1.26	-0.97	0.81
17,555.00	90.74	179.87	10,563.04	-6,973.70	-434.01	6,987.11	1.09	0.94	-0.55
17,650.00	89.35	181.46	10,562.97	-7,068.69	-435.12	7,082.01	2.22	-1.46	1.67
17,745.00	90.50	180.74	10,563.09	-7,163.67	-436.94	7,176.94	1.43	1.21	-0.76
17,839.00	90.63	180.42	10,562.17	-7,257.66	-437.89	7,270.83	0.37	0.14	-0.34
17,934.00	90.31	179.89	10,561.39	-7,352.66	-438.15	7,365.68	0.65	-0.34	-0.56
18,028.00	90.92	179.32	10,560.38	-7,446.65	-437.50	7,459.48	0.89	0.65	-0.61
18,123.00	91.92	178.64	10,558.02	-7,541.60	-435.81	7,554.18	1.27	1.05	-0.72
18,195.00	92.74	177.91	10,555.10	-7,613.51	-433.64	7,625.85	1.52	1.14	-1.01
18,250.00	92.74	177.91	10,552.47	-7,668.41	-431.64	7,680.54	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Talon 5-8 2H SHL	0.00	0.00	0.00	0.00	0.00	586,363.46	805,447.59	32.609036	-103.475628
- actual wellpath hits target center									
- Point									
Talon 5-8 2H FTP/100	0.00	0.00	10,290.15	100.33	-508.59	586,463.79	804,939.00	32.609323	-103.477277
- actual wellpath hits target center									
- Point									
Talon 5-8 2H BHL	0.00	0.00	10,552.47	-7,668.41	-431.64	578,695.05	805,015.95	32.587970	-103.477230
- actual wellpath hits target center									
- Point									
Talon 5-8 2H FTP/100	0.00	0.00	10,552.55	-7,666.71	-431.70	578,696.75	805,015.89	32.587974	-103.477231
- actual wellpath hits target center									
- Point									

Checked By: _____ Approved By: _____ Date: _____

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
87505State of New Mexico
Energy, Minerals and Natural ResourcesForm C-103
Revised July 18, 2013OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505WELL API NO.
30-025-474585. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

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

Caza Oil and Gas, Inc

3. Address of Operator

200 N. Lorraine St #1550., Midland, TX 79701

7. Lease Name or Unit Agreement Name

Talon 5-8 Federal

8. Well Number 2H

9. OGRID Number

249099

10. Pool name or Wildcat

WC-025 G-08 S203506D; Bone Spring (97983)

4. Well Location

Unit Letter L2; 205 feet from the North line and 1455 feet from the East line
Section 5 Township 20S Range 35E NMPM County Lea11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3693'GR

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☒

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.

12/7/2021 - Production casing was perf'd from 10,740'MD - 18,213'MD with 0.42" perf size and 10 shots per foot. The well was fracked with 22,867,450lbs of sand.

Spud Date:

6/10/2021

Rig Release Date:

10/1/2021

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

SIGNATURE



TITLE

Engineer

DATE

12/16/2021

Type or print name

Steve Morris

E-mail address:

steve.morris@morcoreengineering.com

PHONE:

985-415-9729

For State Use Only

APPROVED BY:

TITLE

DATE

Conditions of Approval (if any):

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-105 Revised April 3, 2017					
1. WELL API NO. 30-025-47458								2. Type of Lease ☐ STATE ☐ FEE ☒ FED/INDIAN		
3. State Oil & Gas Lease No.								4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)		
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER								5. Lease Name or Unit Agreement Name Talon 5-8 Federal		
8. Name of Operator Caza Operating LLC								6. Well Number: 2H		
10. Address of Operator 200 N Lorraine St #1550, Midland, TX 79702								11. Pool name or Wildcat WC-025 G-08 S203506D; Bone Spring		
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	L2	5	20S	35E		205	N	1455	E	Lea
BH:	G	8	20S	35E		2550	N	1952	E	Lea
13. Date Spudded 6/10/2021	14. Date T.D. Reached 9/29/2021	15. Date Rig Released 10/1/2021			16. Date Completed (Ready to Produce) 12/23/2021			17. Elevations (DF and RKB, RT, GR, etc.) 3693 GR		
18. Total Measured Depth of Well 18250			19. Plug Back Measured Depth 18215			20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run Gamma ray, mud log		
22. Producing Interval(s), of this completion - Top, Bottom, Name 10740-18215MD 2nd Bone Spring										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13.375		54.5		2097		17.5		1740sx		
9.625		40		5534		12.25		2565sx		
5.5		23		18232		8.75		3325sx		
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		SIZE	DEPTH SET		PACKER SET	
						2.875	10662		10662	
26. Perforation record (interval, size, and number)						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
10740-18215, 0.42", 10spf						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						10740-18215		390,267bbls 22,850,280lbs sand		
28. PRODUCTION										
Date First Production 12/23/2021		Production Method (Flowing, gas lift, pumping - Size and type pump) jet pump				Well Status (Prod. or Shut-in) P				
Date of Test 01/02/2022	Hours Tested 24	Choke Size 30/64	Prod'n For Test Period	Oil - Bbl 272	Gas - MCF 2 7 4	Water - Bbl. 1048	Gas - Oil Ratio 1:1			
Flow Tubing Press. 2754	Casing Pressure 300	Calculated 24-Hour Rate	Oil - Bbl. 272	Gas - MCF 274	Water - Bbl. 1048	Oil Gravity - API - (Corr.) 39.9				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) sold								30. Test Witnessed By Kevin Garrett		
31. List Attachments										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.								33. Rig Release Date: 10/1/2021		
34. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude _____ Longitude _____ NAD83										
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature				Printed Name Steve Morris		Title Engineer		Date 01/08/2021		
E-mail Address steve.morris@morcoreengineering.com										

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy ¹⁸⁷⁸	T. Canyon ⁵⁵⁶⁰	T. Ojo Alamo	T. Penn A"
T. Salt ²¹⁹⁶	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt ³¹⁰⁴	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates ³⁶⁸⁶	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers ³⁹⁵⁴	T. Devonian	T. Cliff House	T. Leadville
T. Queen ⁴⁵⁹¹	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T.Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T.Tubb	T. Delaware Sand ⁵⁴³⁵	T. Morrison	
T. Drinkard	T. Bone Springs ⁸⁰⁷³	T.Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

No. 1, from.....to.....
No. 2, from.....to.....
No. 3, from.....to.....
No. 4, from.....to.....

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

LITHOLOG OF THE CORE (Attach additional sheet if necessary)							
From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology

[illegible]

Minerals

	ARGILLACEOUS		DOLOMITIC
	ARGILLITE GRAIN		PYRITE
	CALCAREOUS		SANDY
	CHTDK		SILTY

Lithology

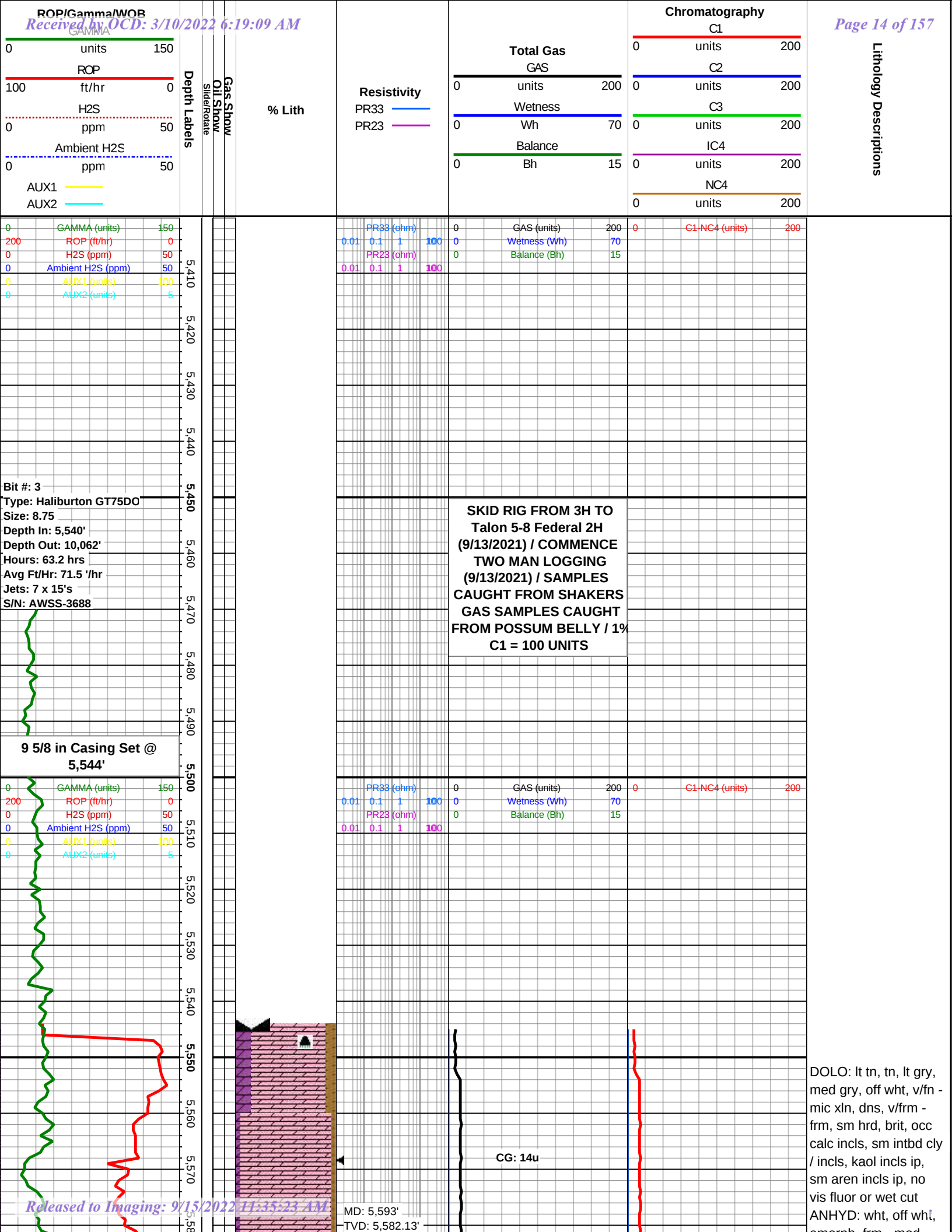
	ANHYDRITE		SHALE
	LIMESTONE		SHALE GRAY
	DOLOMITE		SILTSTONE
	CHERT		SANDSTONE

Stringer

	DOLOMITE STRINGER		SHALE STRINGER
	LIMESTONE STRINGER		SILTSTONE STRINGER
	SANDSTONE STRINGER		

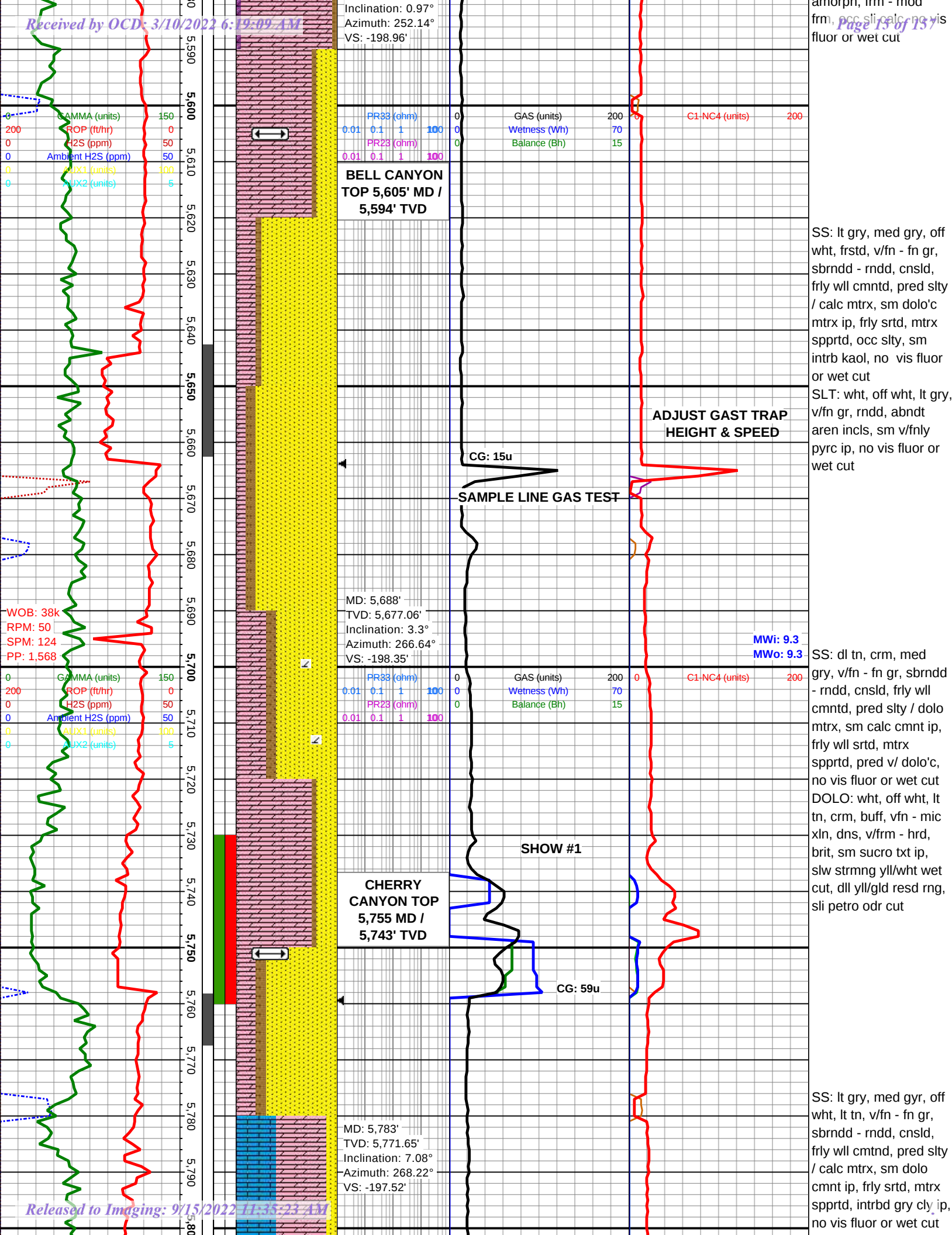
Engineering

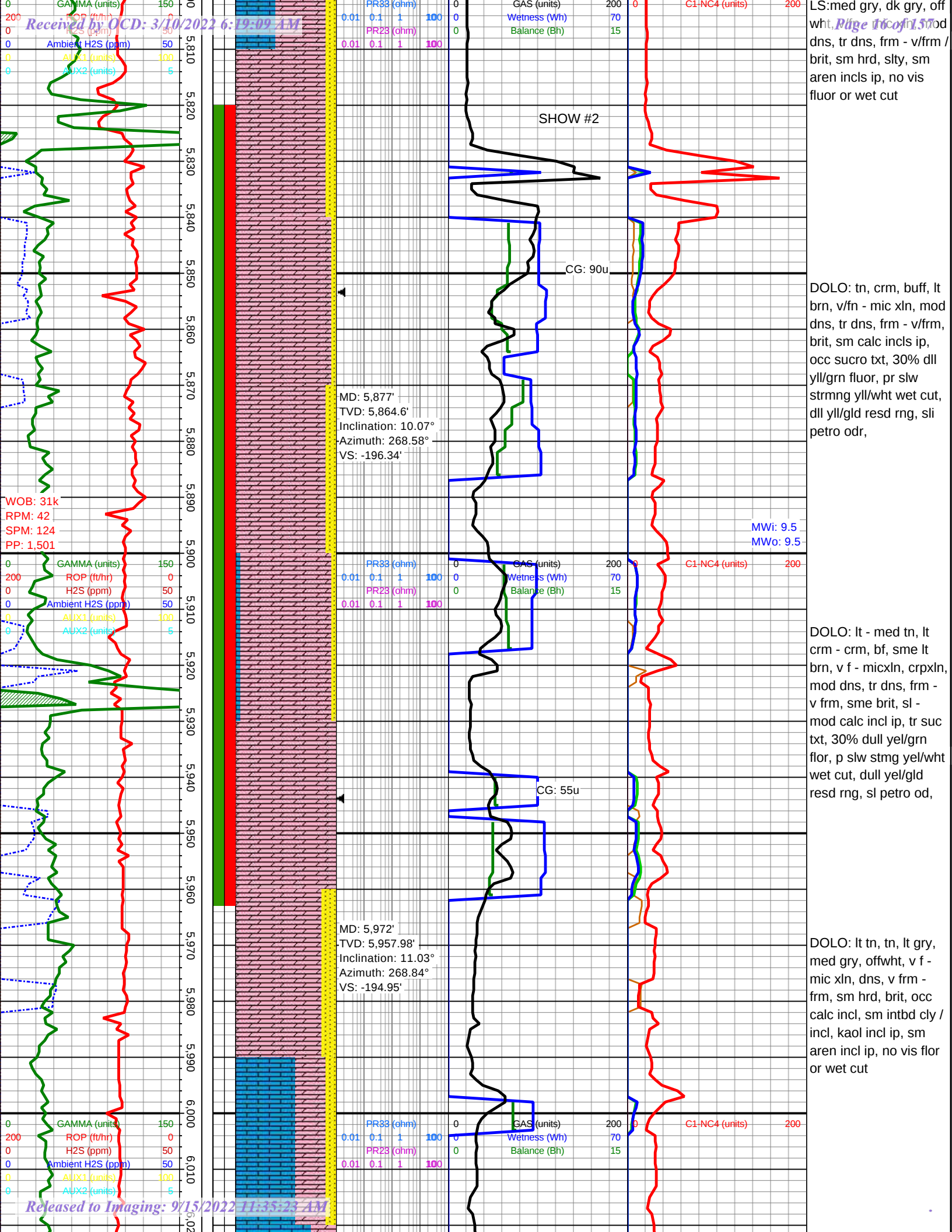
	BIT		FORMATION TOP
	CASING		MN DEPTH
	CONNECTION (LEFT)		SLIDE

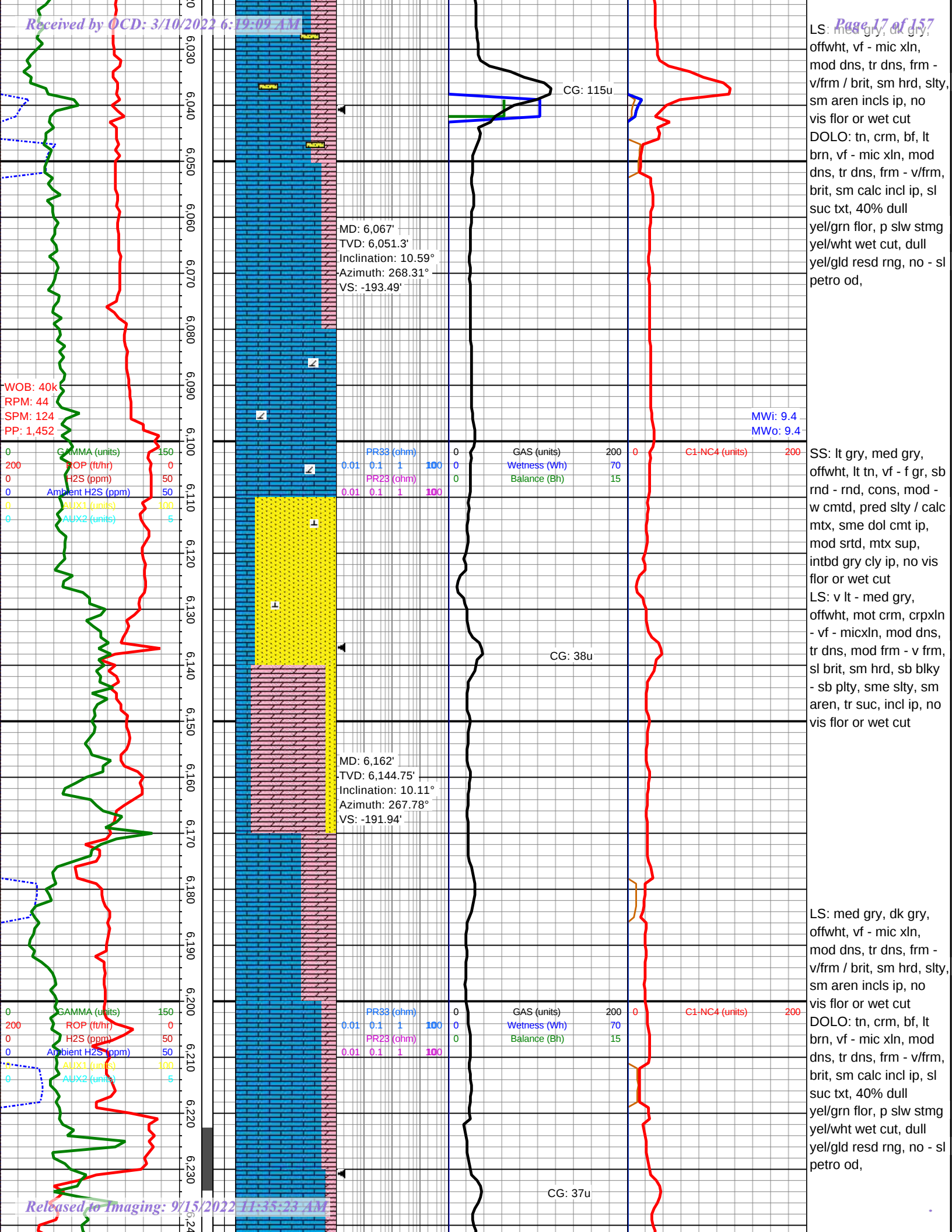


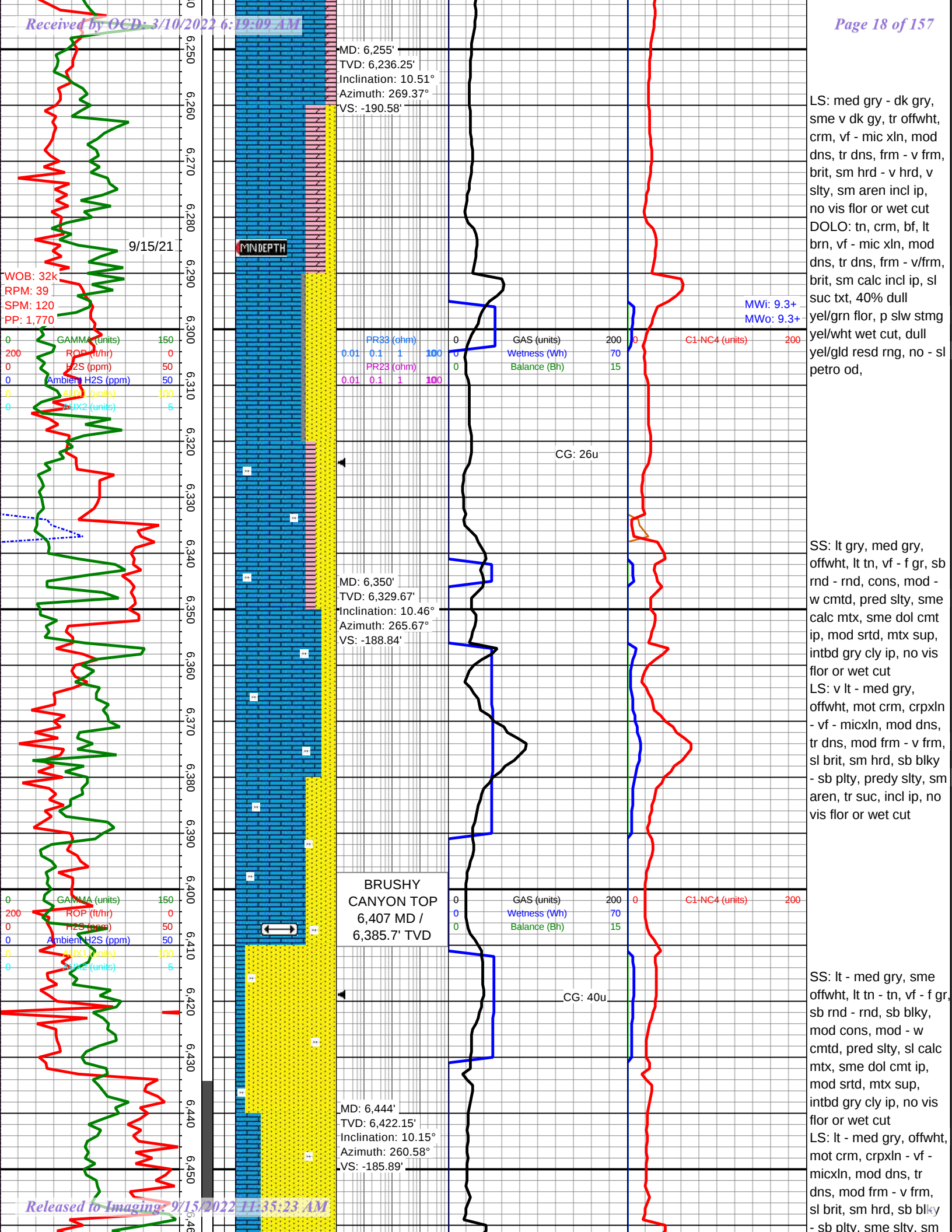
Inclination: 0.97°
Azimuth: 252.14°
VS: -198.96'

amorph, min - mod
frm, ecc sli calc no vis
fluor or wet cut

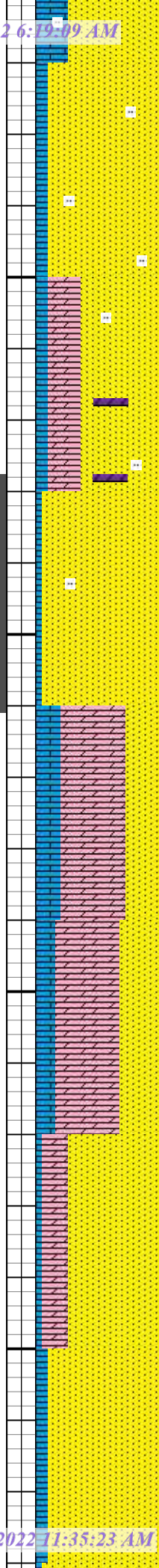
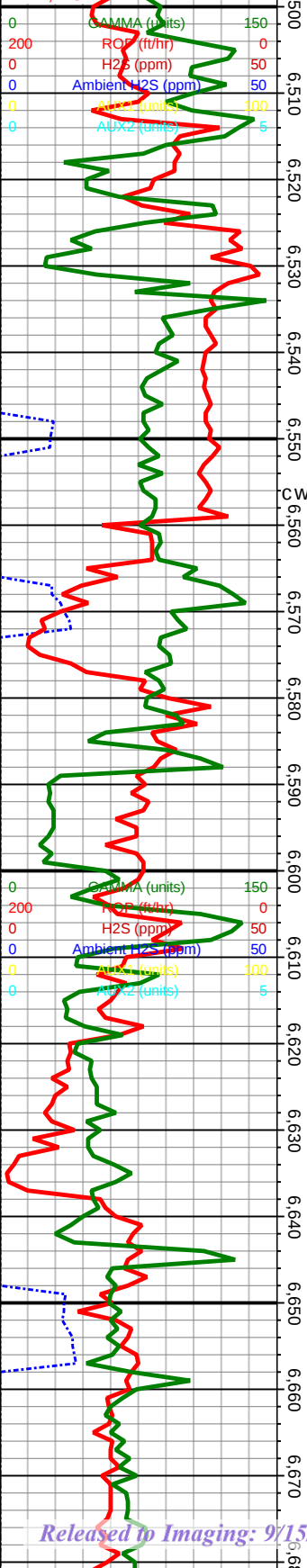








WOB: 32k
RPM: 28
SPM: 120
PP: 1,748



PR33 (ohm) 0.01 0.1 1 100
PR23 (ohm) 0.01 0.1 1 100

GAS (units) 200
Wetness (Wh) 70
Balance (Bh) 15

MWi: 9.3+
MWO: 9.3+

C1-NC4 (units) 200

CG: 25u

MD: 6,539'
TVD: 6,515.54'
Inclination: 10.95°
Azimuth: 263.04°
VS: -182.45'

SS: v lt - lt gry, sme med gry, offwht, v lt tn, vf - f gr, sb rnd - v rnd, mod - w cons, mod cmtd, pred slty, tr calc mtx, tr dol cmt ip, mod - w srtd, mtx sup, intbd gry cly ip, no vis flr or wet cut
LS: v lt - med gry, tn, mot crm, crpxln - vf - micxln, mod dns, tr dns, mod frm - v frm, sl brit, sm hrd, sb blkly - sb plty, predy slty, sm aren, tr suc, incl ip, no vis flr or wet cut

PR33 (ohm) 0.01 0.1 1 100
PR23 (ohm) 0.01 0.1 1 100

GAS (units) 200
Wetness (Wh) 70
Balance (Bh) 15

C1-NC4 (units) 200

CG: 24u

MD: 6,633'
TVD: 6,607.66'
Inclination: 12.04°
Azimuth: 267.96°
VS: -179.95'

DOLO: lt tn, crm, buff, off wht, mic - v/fn xln, mod dns - dns, frm - vfrm, brit, occ calc incls, sm slty ip, tr aren incls, no vis fluor or wet cut
SS: wht, lt tn, off wht, tr lt gry, v/fn - fn gr, sbrnrd - rnd, cnsld, frly cmmntd, pred slty / dolo'c mtrx, sm silic cmnt ip, frly srtd, clst spprtd, slty ip, no vis fluor or wet cut

WOB: 30k
RPM: 50
SPM: 120
PP: 1,810

MWi: 9.3
MWo: 9.3

GAMMA (units) 150
ROP (ft/hr) 0
H2S (ppm) 50
Ambient H2S (ppm) 50
AUX1 (units) 100
AUX2 (units) 5

PR33 (ohm) 0
0.01 0.1 1 100
PR23 (ohm) 0
0.01 0.1 1 100

GAS (units) 200
Wetness (Wh) 70
Balance (Bh) 15

C1-NC4 (units) 200

CG: 27u

MD: 6,727'
TVD: 6,699.6'
Inclination: 12°
Azimuth: 268.31°
VS: -178.2'

SS: It gry, off wht, wht,
frstd, v/fn - fn gr,
sbrnnd - rndd, cnsld,
frly cmntd, pred slty /
cly mtrx, sm calc cmnt
ip, frly srtd, clst spprtd,
abndt kaol ip, no vis
flur or wet cut
LS: wht, off wht, lt tn, lt
gry, v/fn - mic xln, mod
dns, tr dns, brit, slty ip,
abndt aren incls ip, no
vis flur or wet cut

GAMMA (units) 150
ROP (ft/hr) 0
H2S (ppm) 50
Ambient H2S (ppm) 50
AUX1 (units) 100
AUX2 (units) 5

PR33 (ohm) 0
0.01 0.1 1 100
PR23 (ohm) 0
0.01 0.1 1 100

GAS (units) 200
Wetness (Wh) 70
Balance (Bh) 15

C1-NC4 (units) 200

SAMPLE LINE GAS TEST

CG: 34u

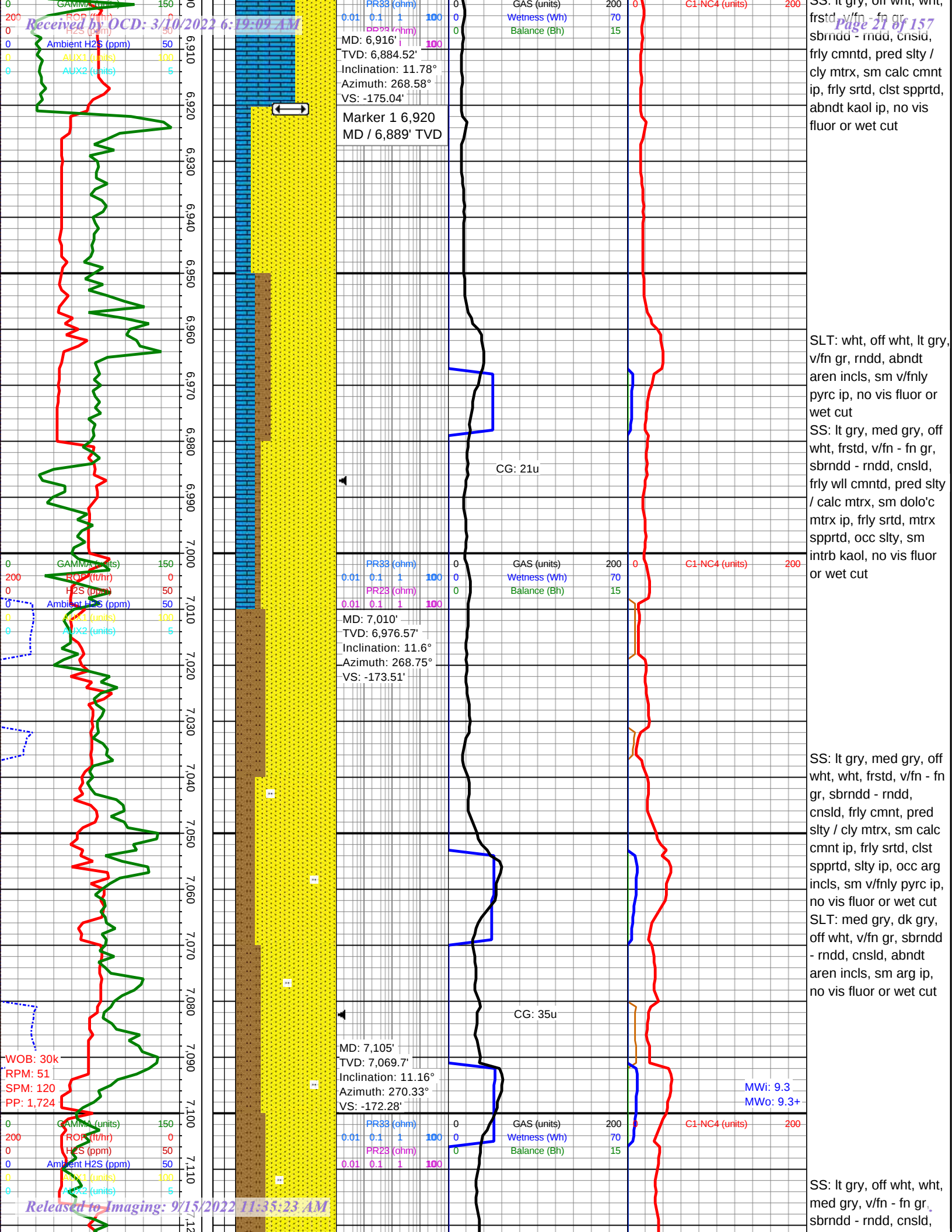
MD: 6,822'
TVD: 6,792.53'
Inclination: 11.96°
Azimuth: 268.84°
VS: -176.58'

LS: wht, off wht, lt gry,
v/fn - mic xln, mod dns,
frm - mod frm, sm sft /
brit, anbdt kaol incls,
abndt aren incls, marl,
no vis flur or wet cut
SS: wht, off wht, med
gry, v/fn - fn gr, sbrnnd
- rndd, cnsld, frly wll
cmntd, pred slty / cly
mtrx, abndt kaol, frly
srtd, clst spprtd, slty ip,
no vis flur or wet cut

WOB: 31k
RPM: 48
SPM: 120
PP: 1,840

MWi: 9.3
MWo: 9.3+

LS: wht, off wht, lt tn, lt
gry, v/fn - mic xln, mod
dns, tr dns, brit, slty ip,
abndt aren incls ip, no
vis flur or wet
SS: It gry, off wht, wht,

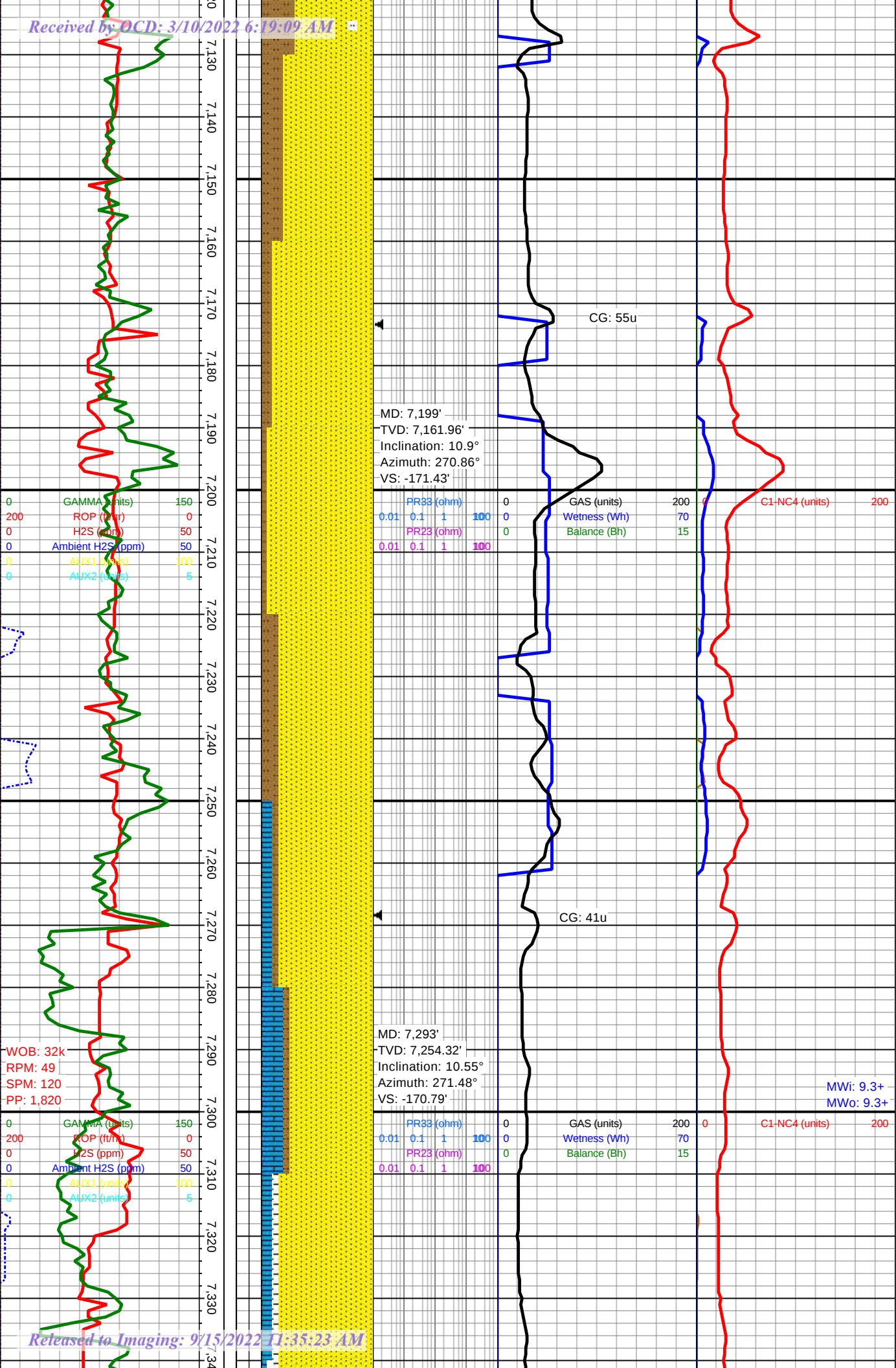


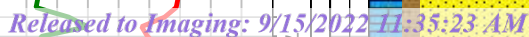
frly wll cmntd, pred slty / cly
cmnt ip, frly srted, clst spptd, pred slty sst, fria clstrs ip, no vis fluor or wet cut
SLT: med gry, dk gry, off wht, wht, v/fn gr, sbrnnd - rndd, cnsl, abndt aren incl, sm arg incl ip, tr v/fnly pyrc, no vi fluor or wet cut

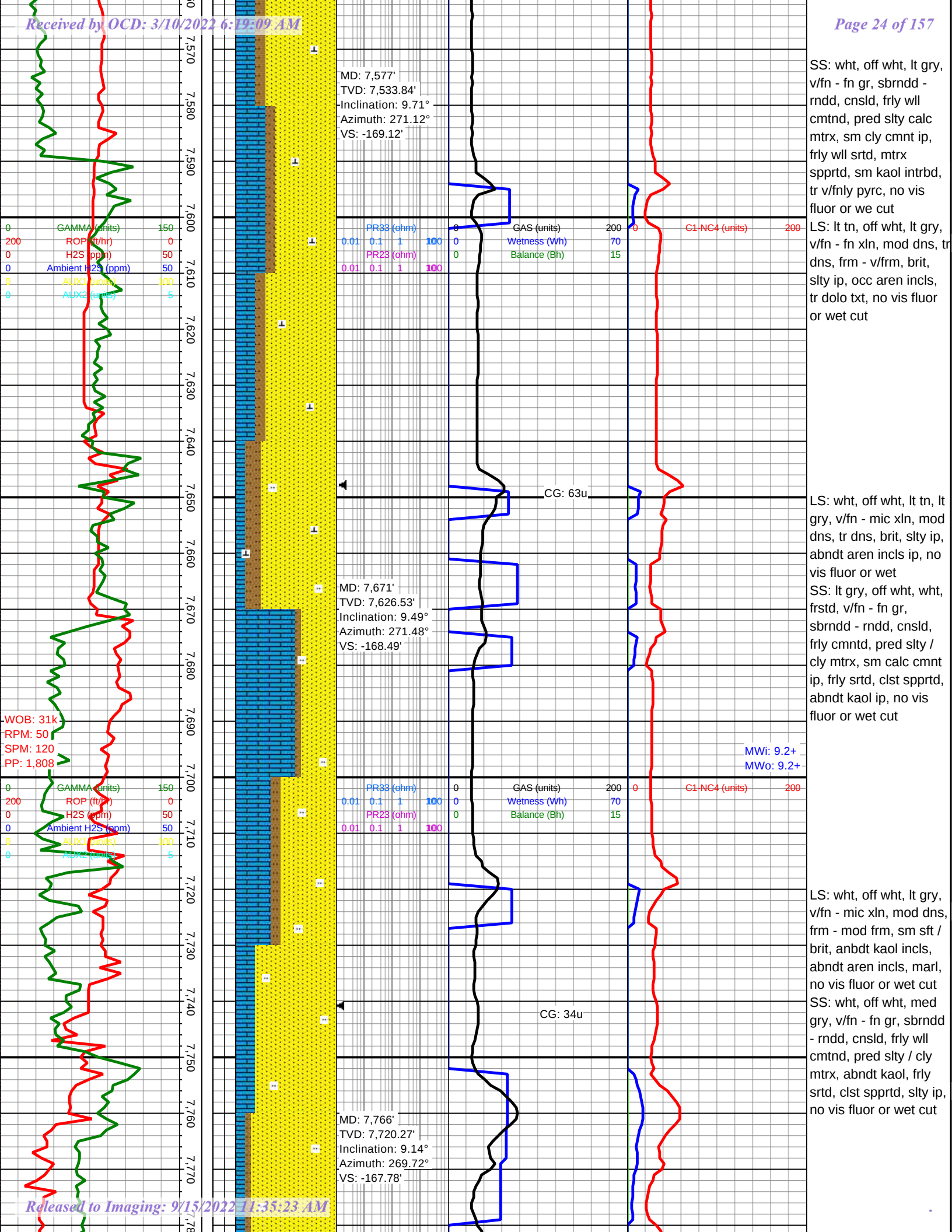
SLT: med gry, lt gry, off wht, wht, v/fn gr, rndd, abndt aren incl, sm v/fnly pyrc ip, no vis fluor or wet cut
SS: lt gry, med gry, off wht, frstd, v/fn - fn gr, sbrnnd - rndd, cnsl, frly wll cmntd, pred slty / calc mtrx, sm dolo'c mtrx ip, frly srted, mtrx spptd, occ slty, sm intrb kaol, no vis fluor or wet cut

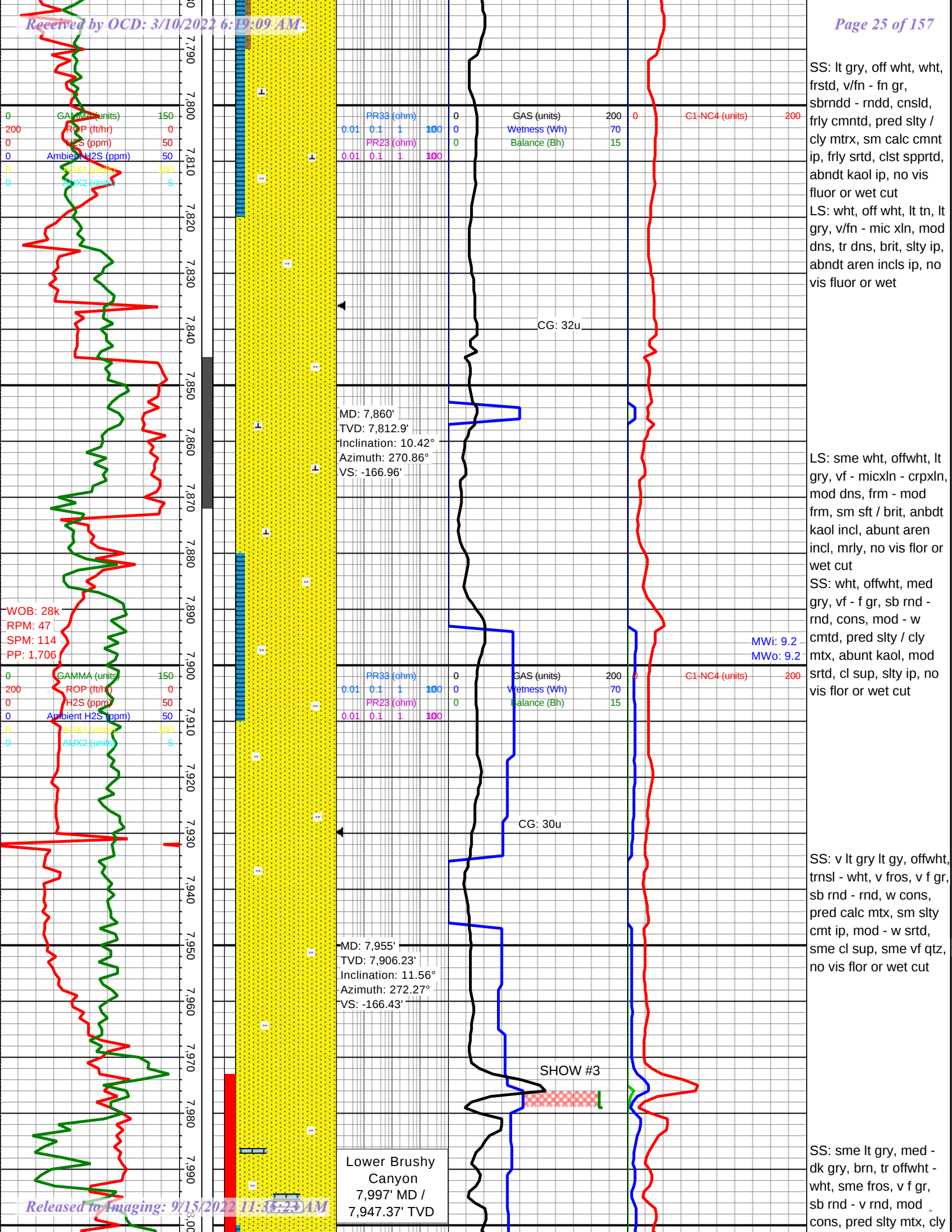
SS: lt gry, off wht, wht, frstd, v/fn - fn gr, sbrnnd - rndd, cnsl, frly cmntd, pred slty / cly mtrx, sm calc cmnt ip, frly srted, clst spptd, abndt kaol ip, no vis fluor or wet cut
LS: wht, off wht, lt tn, lt gry, v/fn - mic xln, mod dns, tr dns, brit, slty ip, abndt aren incl ip, no vis fluor or wet

SS: lt gry, med gry, off wht, wht, frstd, v/fn - fn









SS: lt gry, off wht, wht,
frstd, v/fn - fn gr,
sbrndd - rndd, cnsl,
frly cmntd, pred slty /
cly mtrx, sm calc cmnt
ip, frly srtd, clst spprtd,
abndt kaol ip, no vis
fluor or wet cut

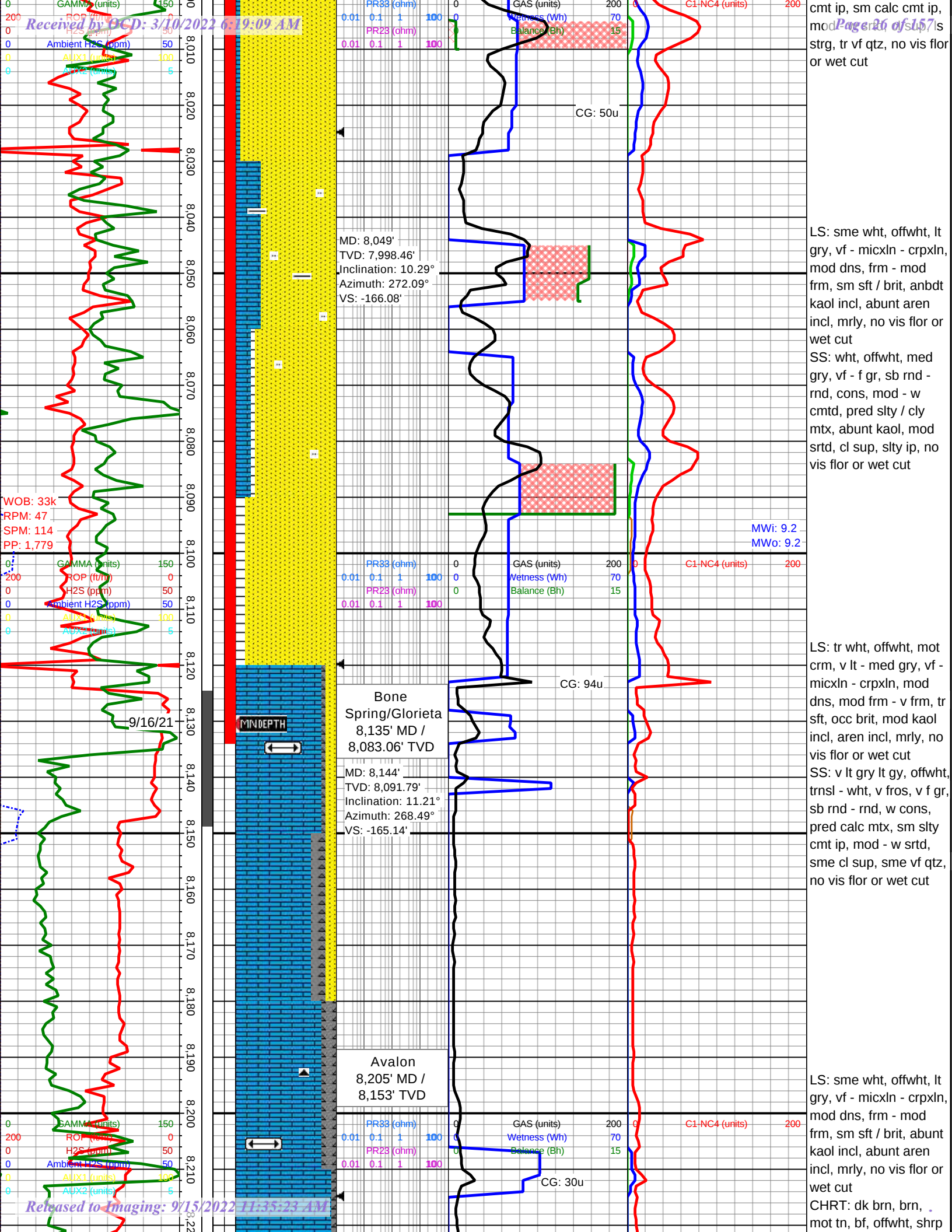
LS: wht, off wht, lt tn, lt
gry, v/fn - mic xln, mod
dns, tr dns, brit, slty ip,
abndt aren incls ip, no
vis fluor or wet

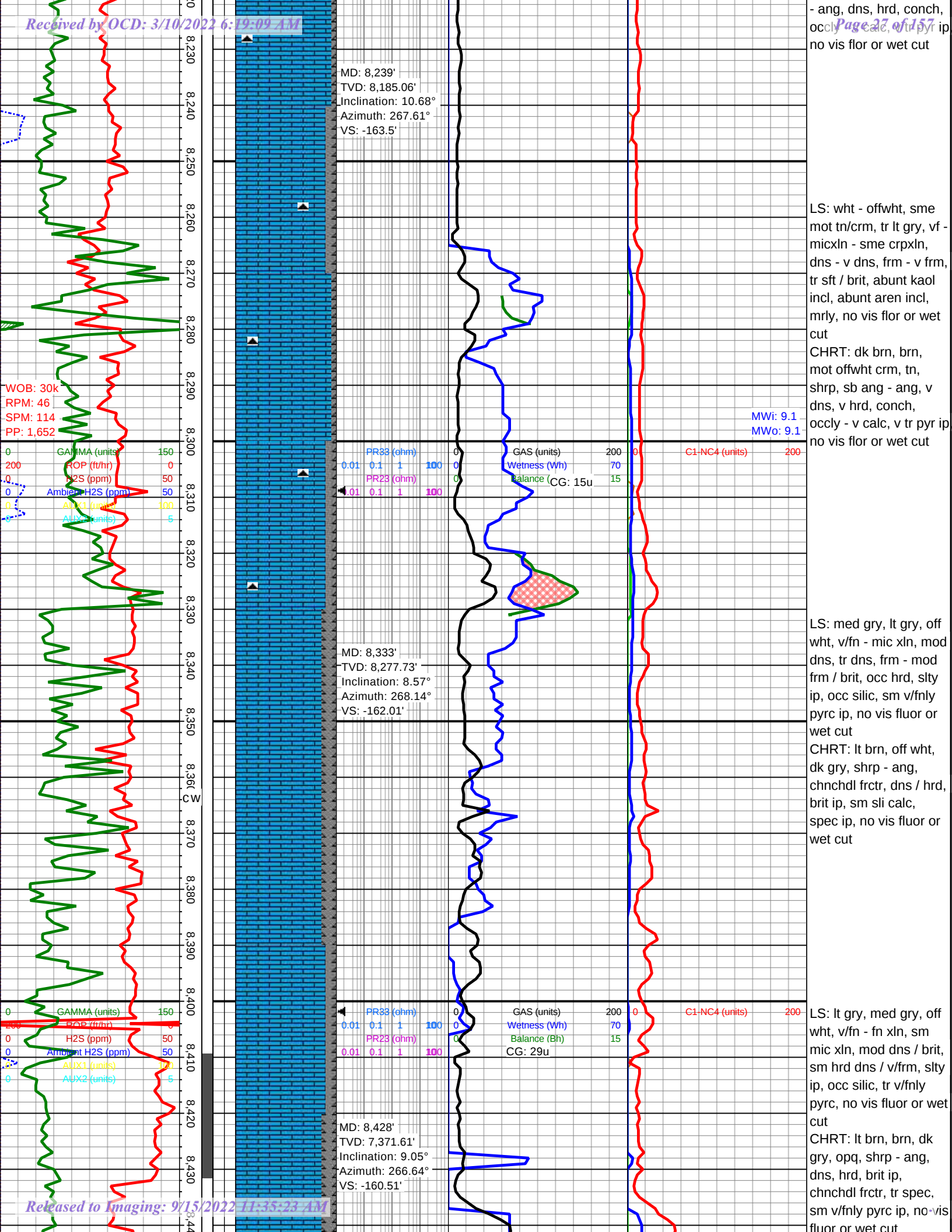
LS: sme wht, offwht, lt gry, vf - micxln - crpxln, mod dns, frm - mod frm, sm sft / brit, anbdn kaol incl, abunt aren incl, mrly, no vis flr or wet cut

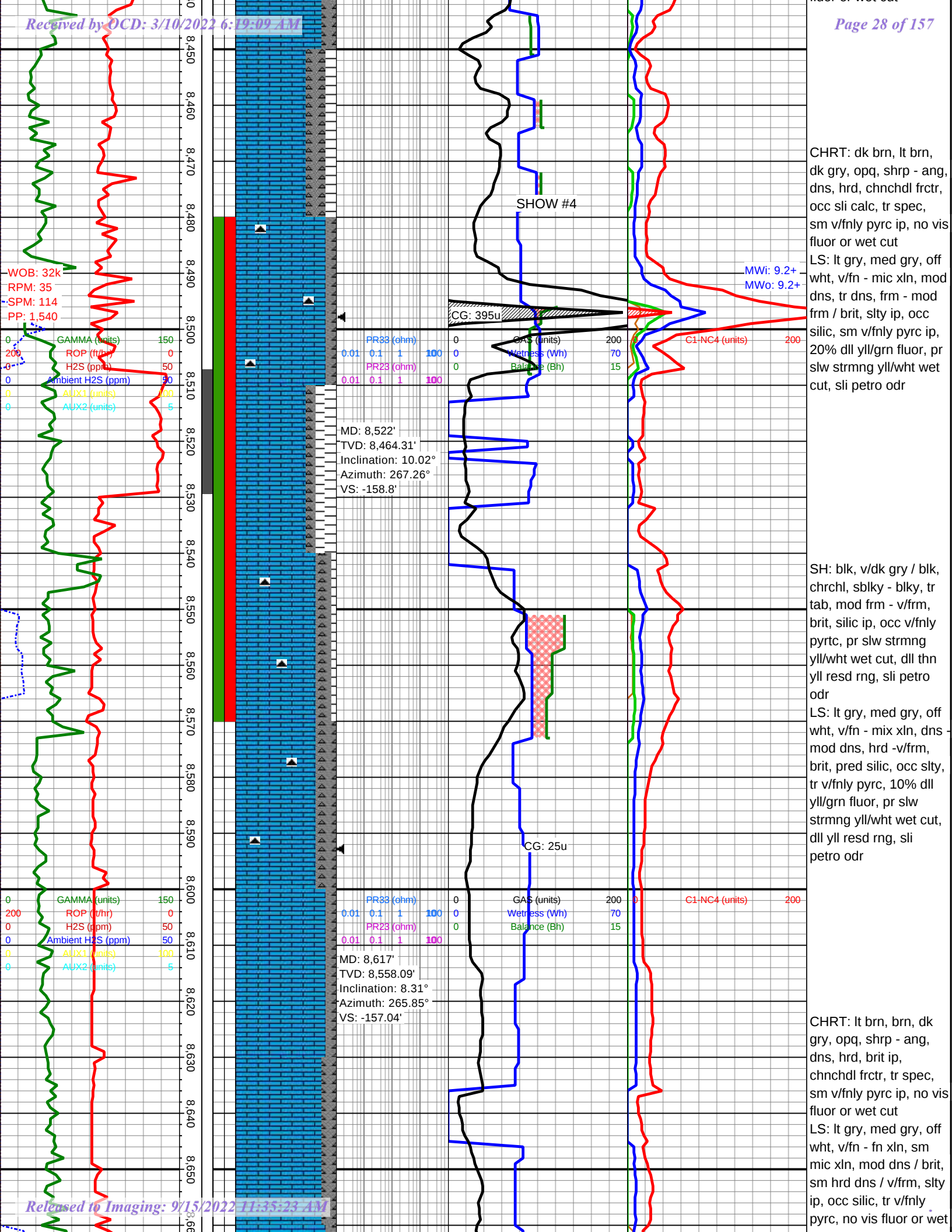
SS: wht, offwht, med gry, vf - f gr, sb rnd - rnd, cons, mod - w cmted, pred slty / cly mtz, abunt kaol, mod strtd, cl sup, slty ip, no vis flr or wet cut

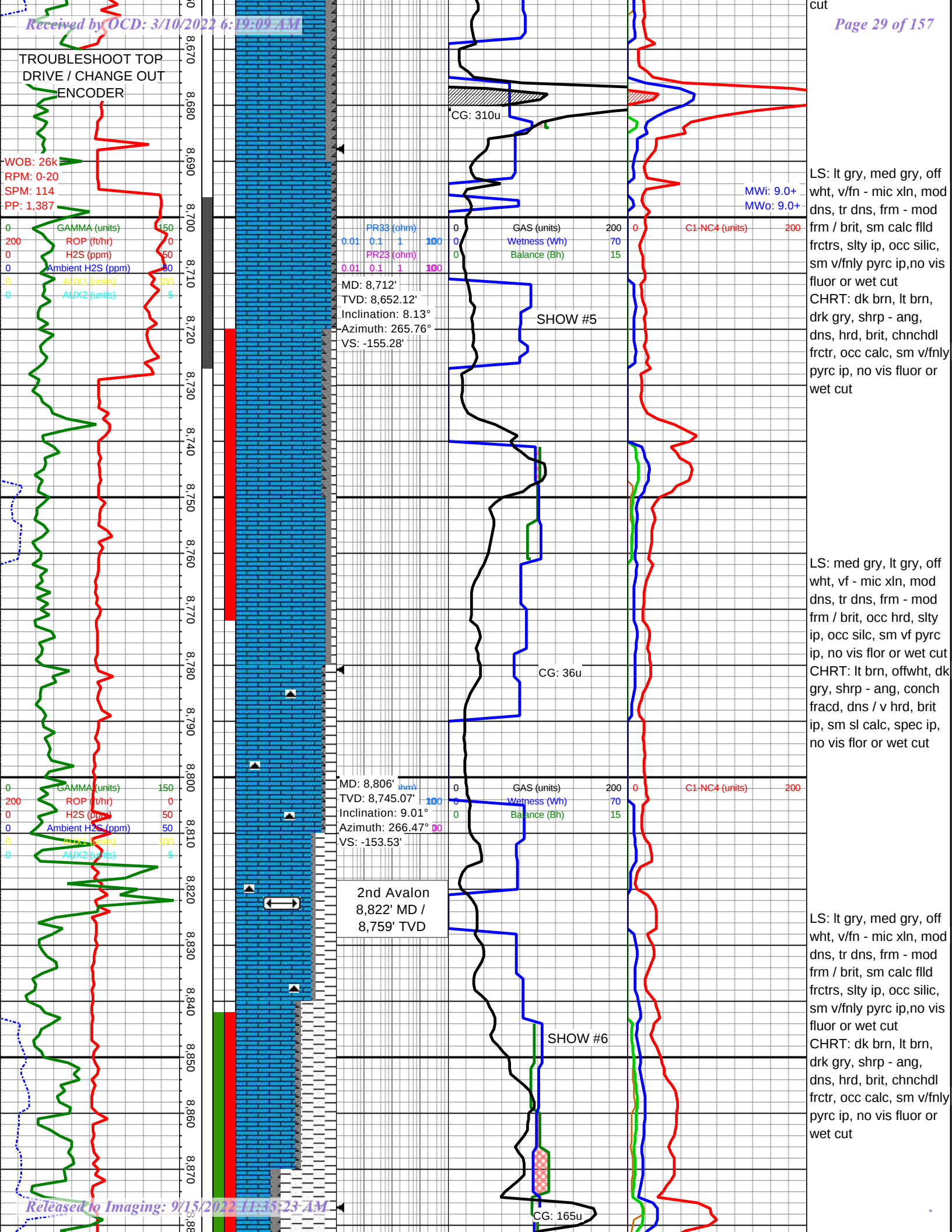
SS: v lt gry lt gy, offwht
trnsl - wht, v fros, v f gr
sb rnd - rnd, w cons,
pred calc mtx, sm slty
cmt ip, mod - w srtd,
sme cl sup, sme vf qtz,
no vis flr or wet cut

SS: sme lt gry, med -
dk gry, brn, tr offwht -
wht, sme fros, v f gr,
sb rnd - v rnd, mod
cons, pred slty mtz, cly









WOB: 31k
RPM: 37
SPM: 114
PP: 1,520

GAMMA (units) 150
RPM (ft/hr) 0
H2S (ppm) 50
Ambient H2S (ppm) 50
AUX1 (units) 100
AUX2 (units) 5

MD: 8,901'
TVD: 8,839.04'
Inclination: 7.87°
Azimuth: 261.28°
VS: -151.3' (ft/hr)
0.01 0.1 1 100

GAS (units) 200
Wetness (Wt) 70
Balance (Bh) 15

MWi: 9.1
MWo: 9.1

SH: blk, v/dk gry / blk, chrchl, sblky - blkly, tr tab, mod frm - v/frm, brit, silic ip, occ v/fnly pyrtc, pr slw strmg yll/wht wet cut, dll thn yll resd rng, sli petro odr

LS: lt gry, med gry, off wht, v/fn - mix xln, dns - mod dns, hrd -v/frm, brit, pred silic, occ slty, tr v/fnly pyrc, 10% dll yll/grn fluor, pr slw strmg yll/wht wet cut, dll yll resd rng, sli petro odr

GAMMA (units) 150
RPM (ft/hr) 0
H2S (ppm) 50
Ambient H2S (ppm) 50
AUX1 (units) 100
AUX2 (units) 5

MD: 8,995'
TVD: 8,932.19'
Inclination: 7.56°
Azimuth: 258.2°
VS: -148.35'
PR23 (ohm) 100
0.01 0.1 1 100

GAS (units) 200
Wetness (Wt) 70
Balance (Bh) 15

CI-NG4 (units) 200

LS: med gry, lt gry, off wht, vf - mic xln, mod dns, tr dns, frm - mod frm / brit, occ hrd, slty ip, occ silc, sm vf pyrc ip, no vis flor or wet cut
CHRT: lt brn, offwht, dk gry, shrp - ang, conch fracd, dns / v hrd, brit ip, sm sl calc, spec ip, no vis flor or wet cut

WOB: 31k
RPM: 38
SPM: 114
PP: 1,520

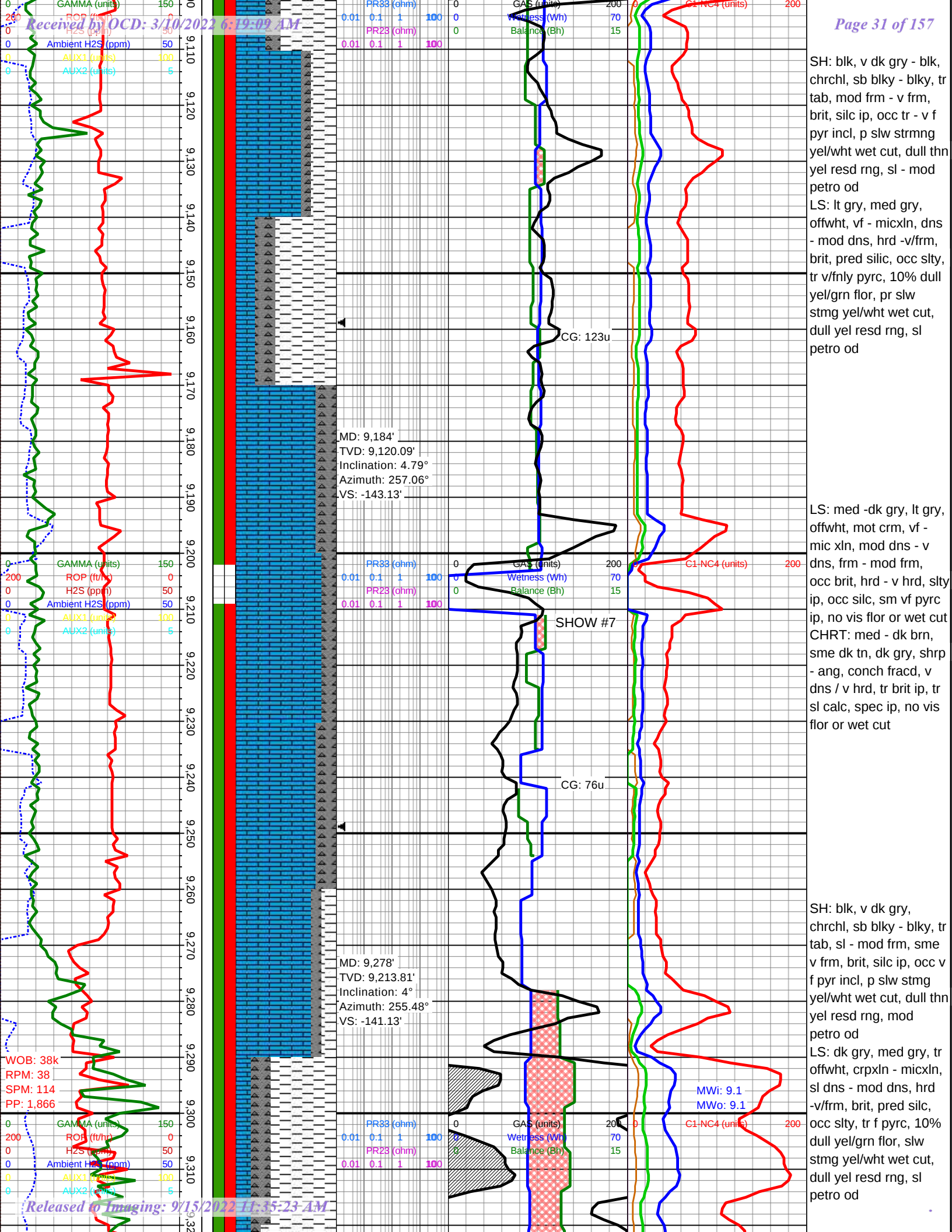
GAMMA (units) 150
RPM (ft/hr) 0
H2S (ppm) 50
Ambient H2S (ppm) 50
AUX1 (units) 100
AUX2 (units) 5

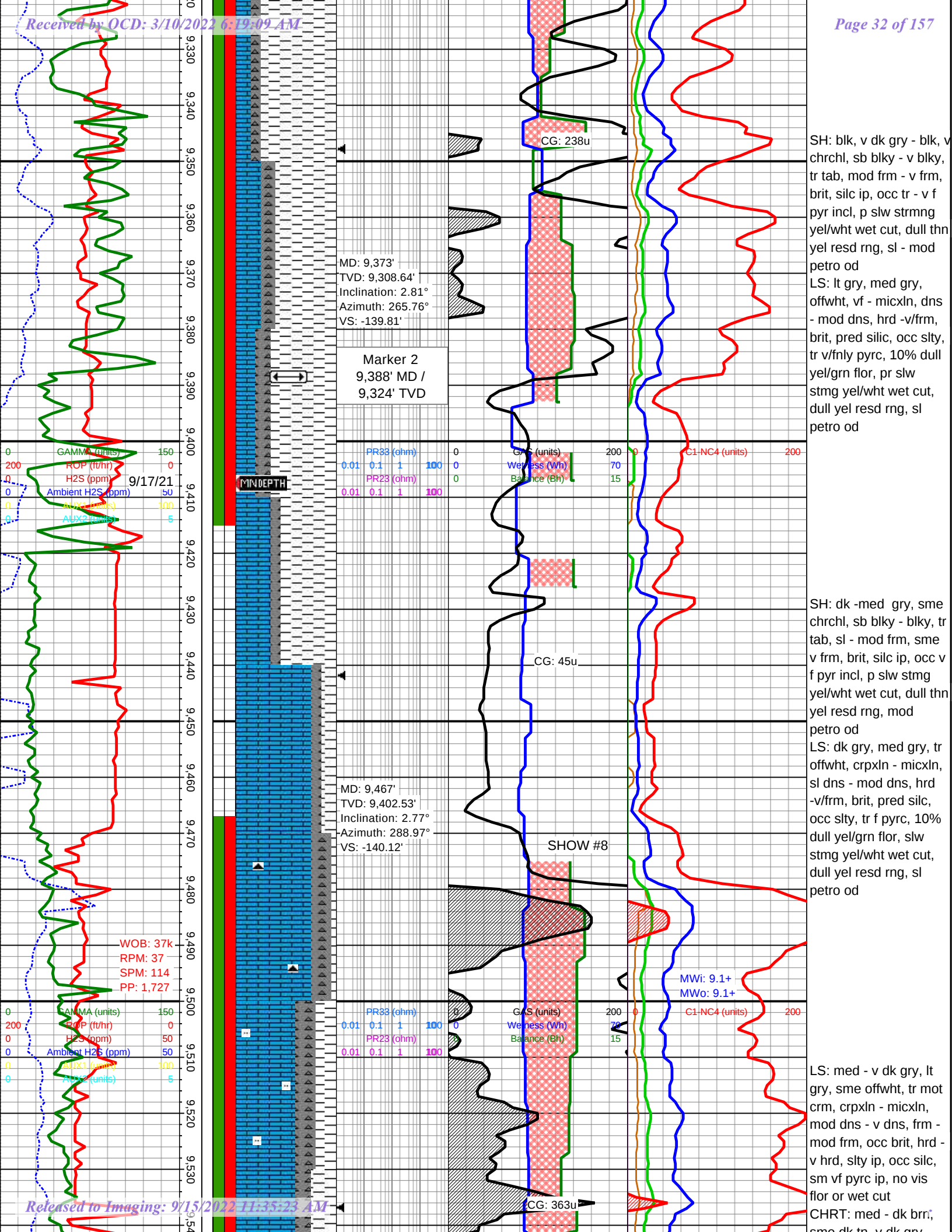
MD: 9,089'
TVD: 9,025.52'
Inclination: 6.11°
Azimuth: 259.43°
VS: -145.55'

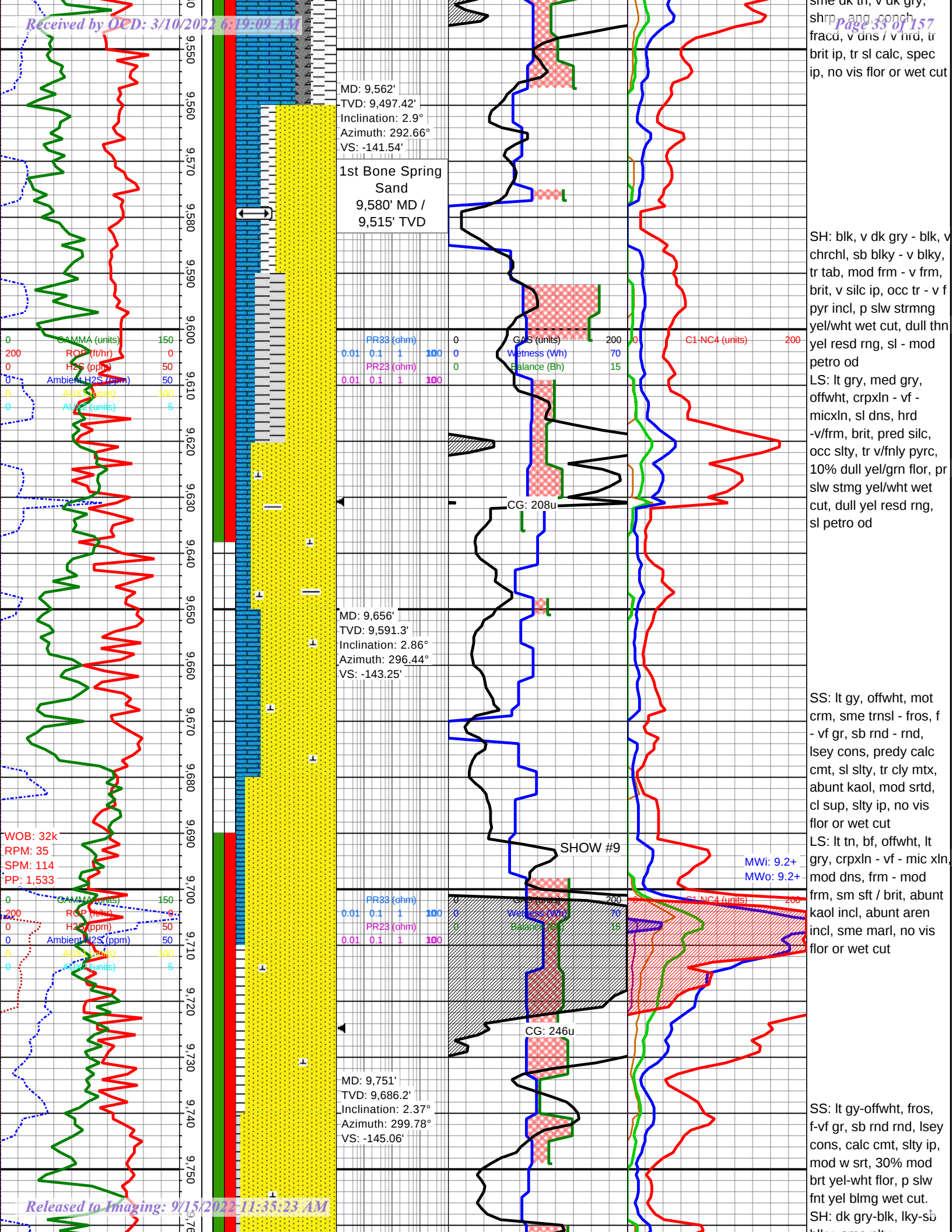
CG: 321u

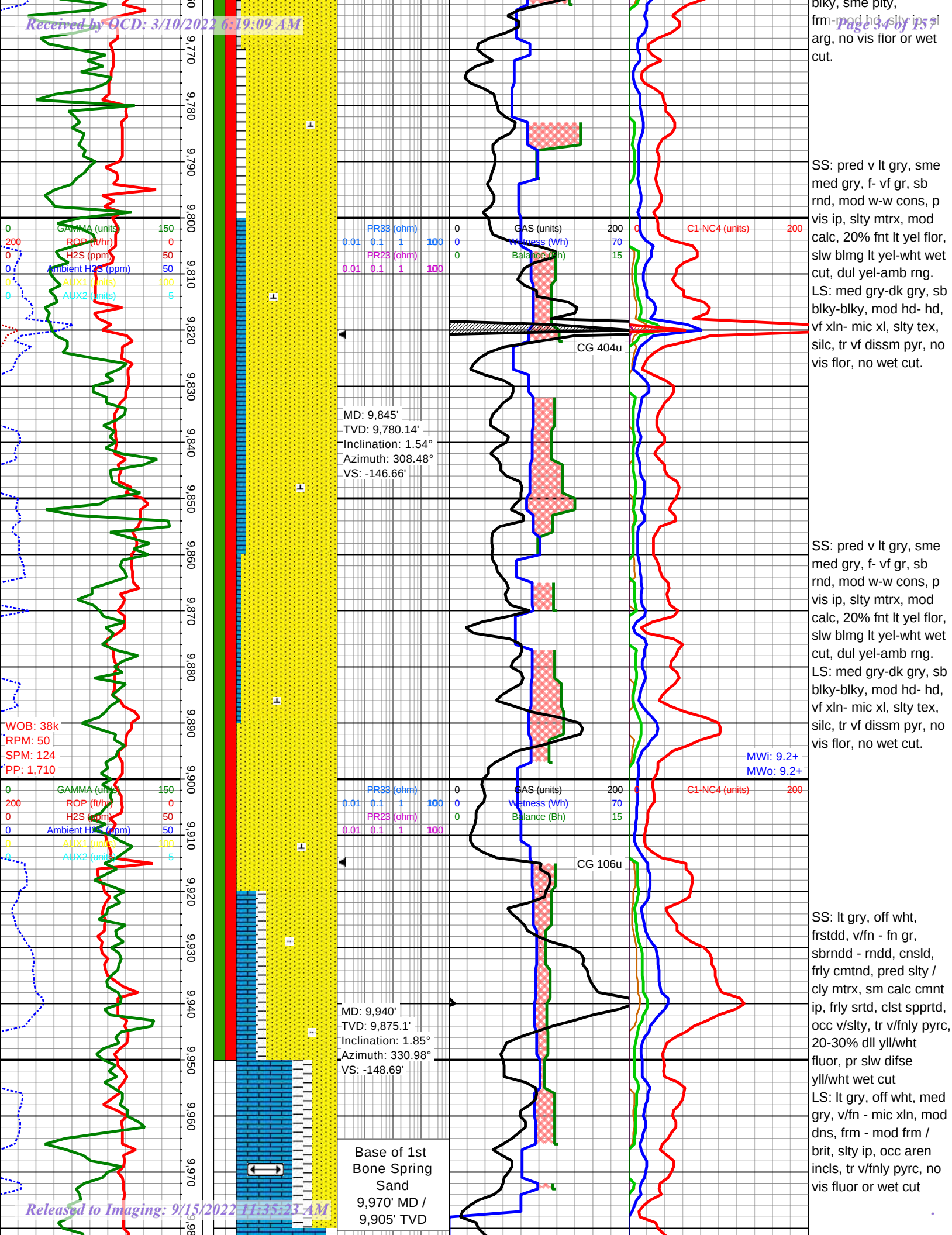
MWi: 9.1
MWo: 9.1

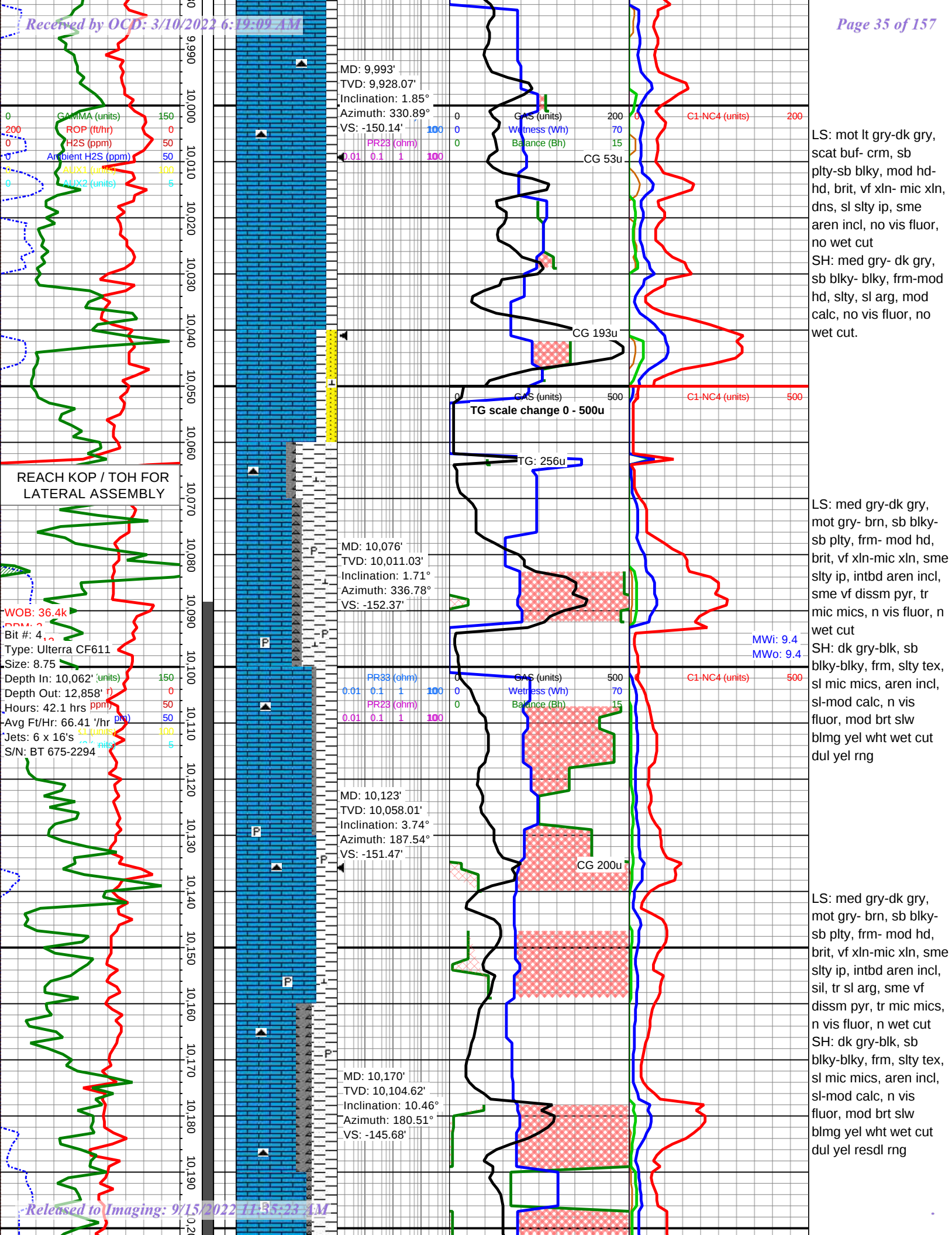
LS: lt gry, med gry, offwht, crpxln - vf - mic xln, mod dns, tr dns, frm - mod frm / brit, sm calc fracs, slty ip, occ silc, sm vf pyrc ip, no vis flor or wet cut
CHRT: dk brn, lt brn, dk gry, shrp - ang, dns, hrd, brit, conch fracd, occ calc, sm vf pyrc ip, no vis flor or wet cut

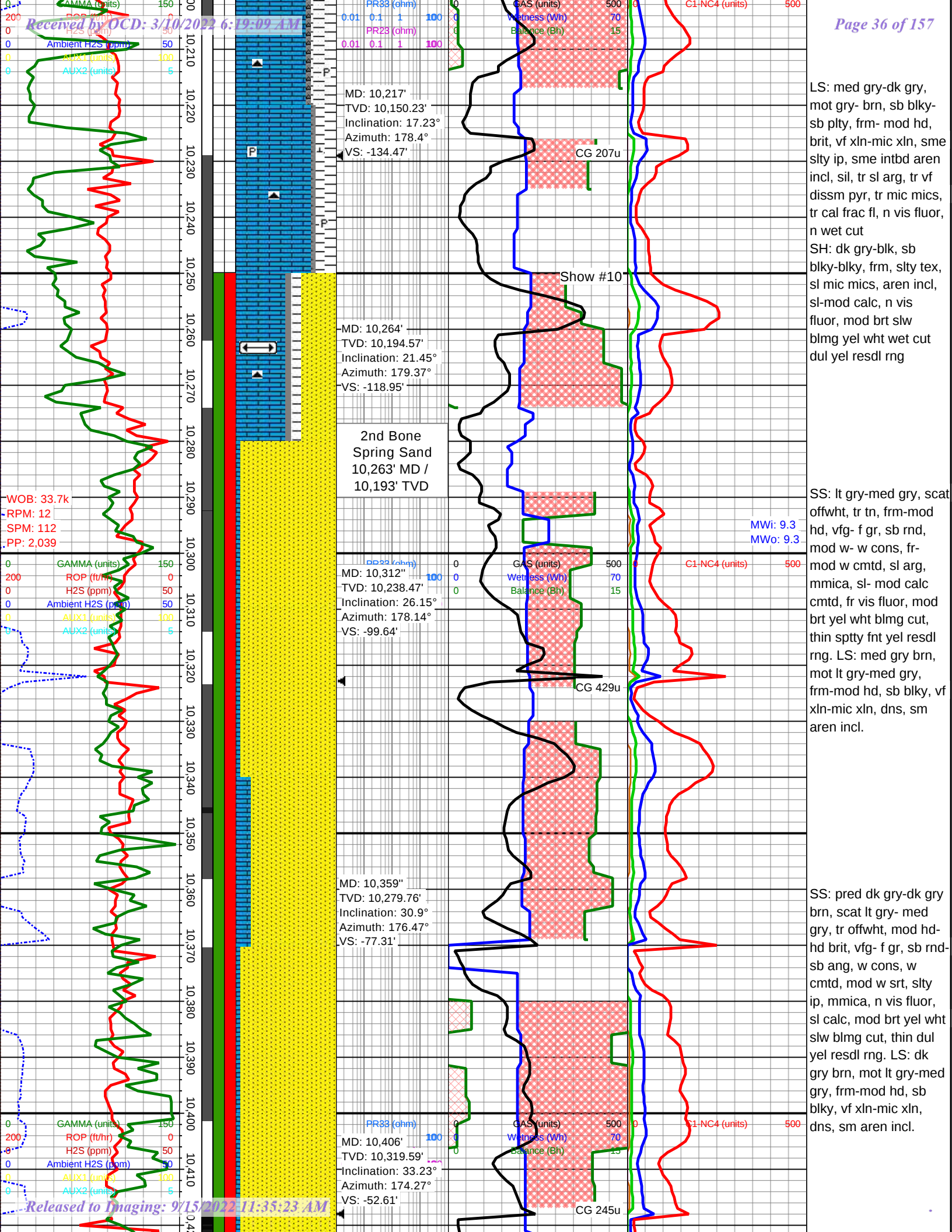












WOB: 33.7k
RPM: 12
SPM: 112
PP: 2,039

2nd Bone
Spring Sand
10,263' MD /
10,193' TVD

Show #10

CG 207u

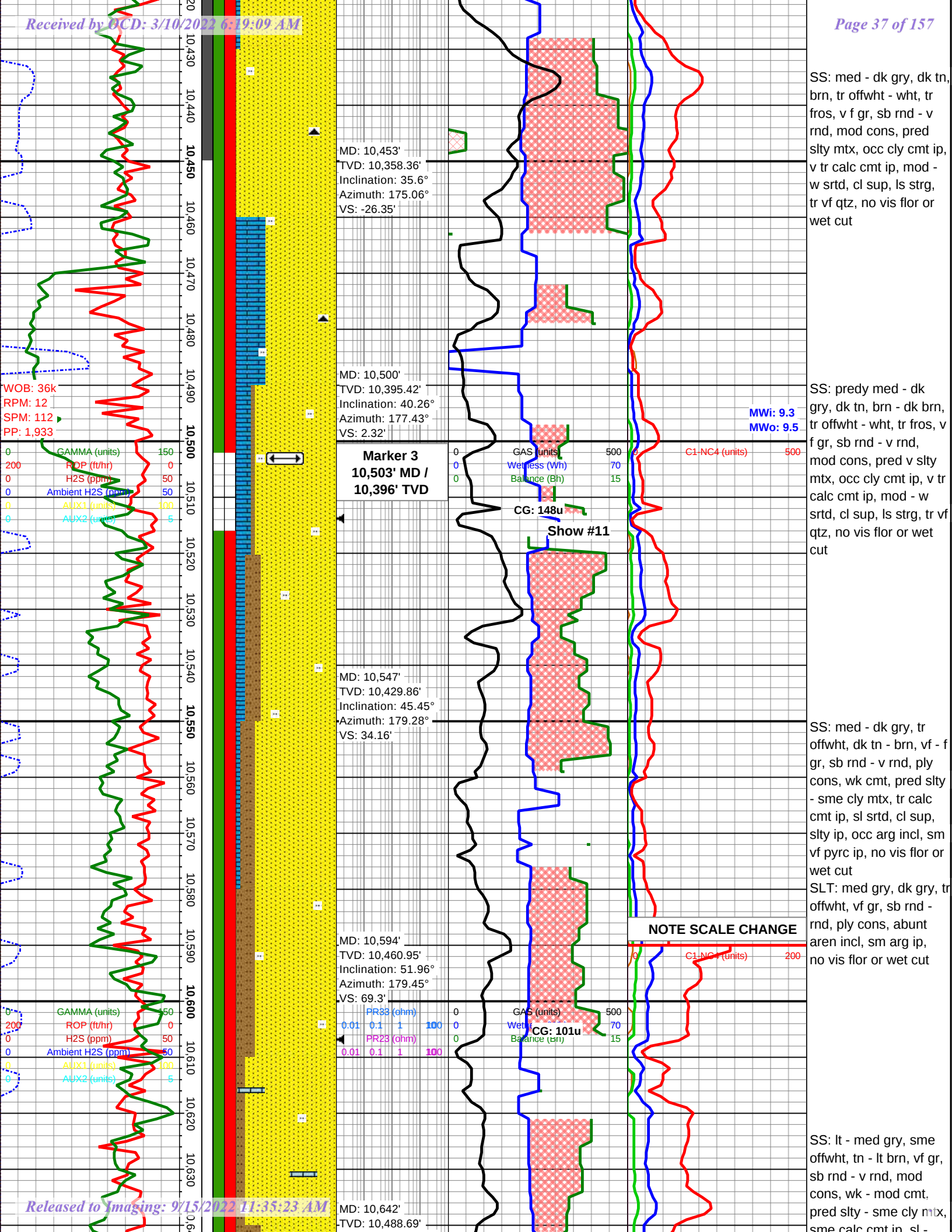
CG 429u

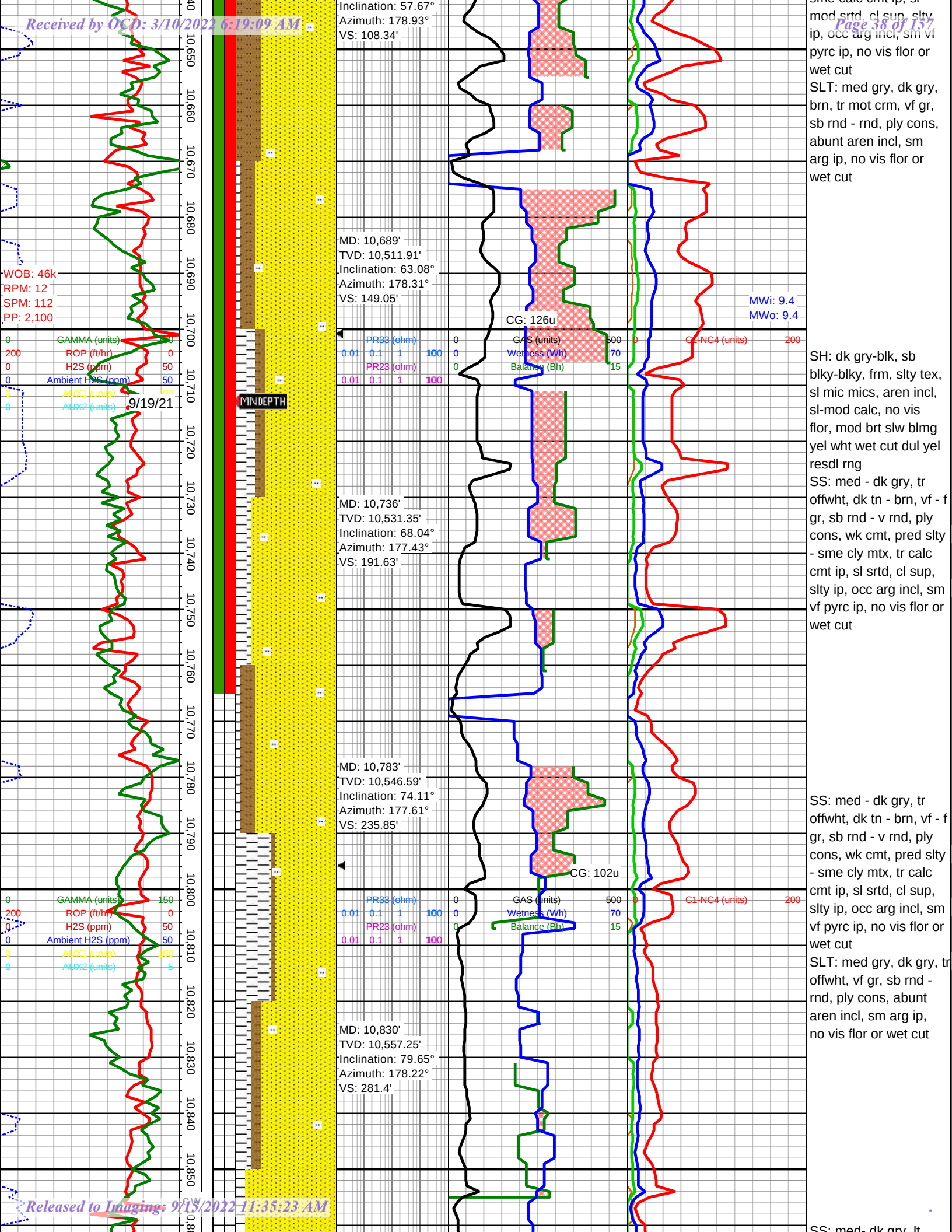
CG 245u

LS: med gry-dk gry, mot gry- brn, sb blkly-sb plty, frm- mod hd, brit, vf xln-mic xln, sme slty ip, sme intbd aren incl, sil, tr sl arg, tr vf dissm pyr, tr mic mics, tr cal frac fl, n vis fluor, n wet cut
SH: dk gry-blk, sb blkly-blky, frm, slty tex, sl mic mics, aren incl, sl-mod calc, n vis fluor, mod brt slw blmg yel wht wet cut dul yel resdl rng

SS: It gry-med gry, scat offwht, tr tn, frm-mod hd, vfg- f gr, sb rnd, mod w- w cons, fr-mod w cmted, sl arg, mmica, sl- mod calc cmted, fr vis fluor, mod brt yel wht blmg cut, thin sppty fnt yel resdl rng. LS: med gry brn, mot lt gry-med gry, frm-mod hd, sb blkly, vf xln-mic xln, dns, sm aren incl.

SS: pred dk gry-dk gry brn, scat lt gry- med gry, tr offwht, mod hd-hd brit, vfg- f gr, sb rnd-sb ang, w cons, w cmted, mod w srt, slty ip, mmica, n vis fluor, sl calc, mod brt yel wht slw blmg cut, thin dul yel resdl rng. LS: dk gry brn, mot lt gry-med gry, frm-mod hd, sb blkly, vf xln-mic xln, dns, sm aren incl.



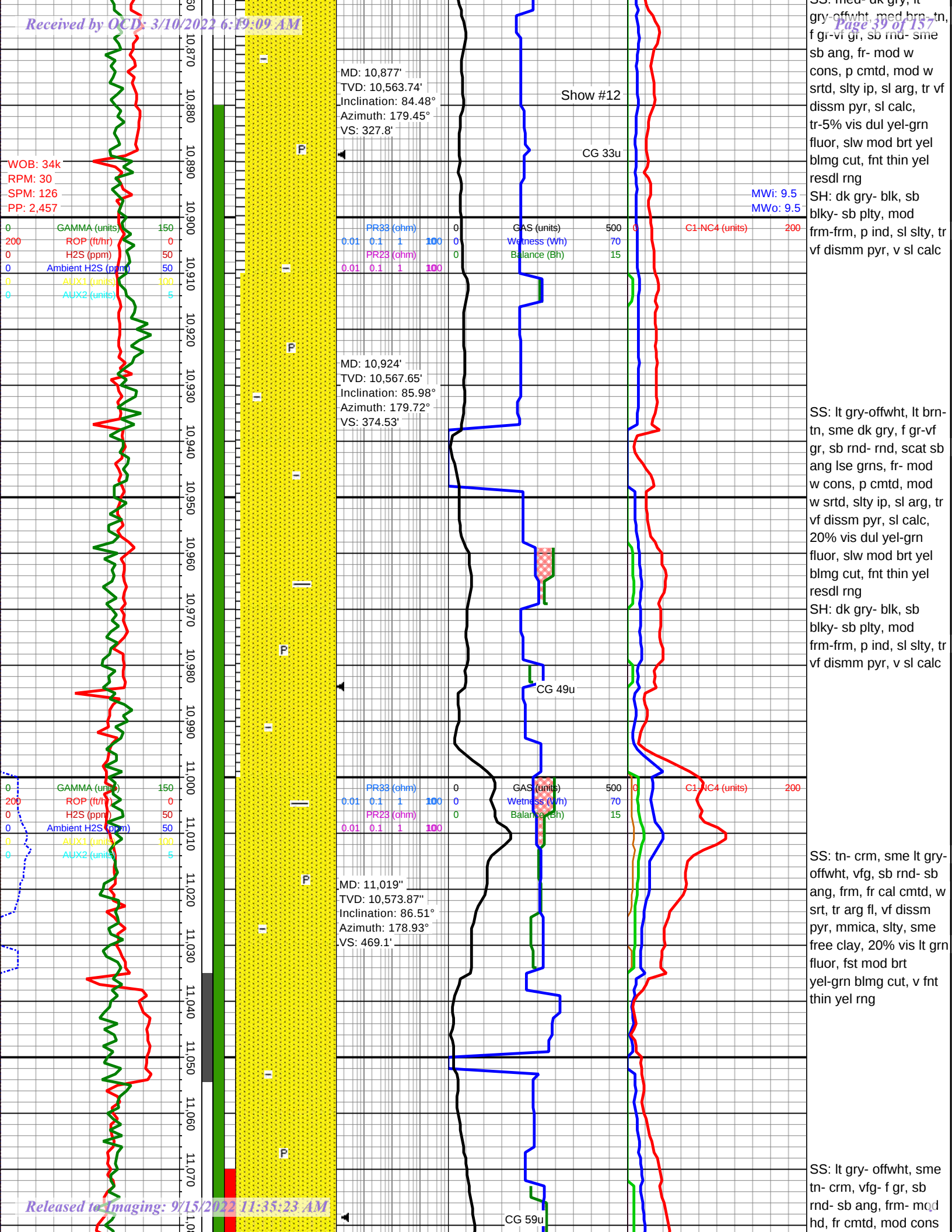


mod srted, cl sup, slty
ip, occ arg incl, sm vf
pyrc ip, no vis flor or
wet cut
SLT: med gry, dk gry,
brn, tr mot crm, vf gr,
sb rnd - rnd, ply cons,
abunt aren incl, sm
arg ip, no vis flor or
wet cut

SH: dk gry-blk, sb
blky-blky, frm, slty tex,
sl mic mics, aren incl,
sl-mod calc, no vis
flor, mod brt slw blmg
yel wht wet cut dul yel
resdl rng
SS: med - dk gry, tr
offwht, dk tn - brn, vf - f
gr, sb rnd - v rnd, ply
cons, wk cmt, pred slty
- sme cly mtz, tr calc
cmt ip, sl srted, cl sup,
slty ip, occ arg incl, sm
vf pyrc ip, no vis flor or
wet cut

SS: med - dk gry, tr
offwht, dk tn - brn, vf - f
gr, sb rnd - v rnd, ply
cons, wk cmt, pred slty
- sme cly mtz, tr calc
cmt ip, sl srted, cl sup,
slty ip, occ arg incl, sm
vf pyrc ip, no vis flor or
wet cut
SLT: med gry, dk gry, tr
offwht, vf gr, sb rnd -
rnd, ply cons, abunt
aren incl, sm arg ip,
no vis flor or wet cut

SS: med - dk gry, tr



WOB: 37.9k
RPM: 38
SPM: 136
PP: 2,848

MWi: 9.4+
MWO: 9.4+

GAMMA (units) 150
ROP (ft/hr) 0
H2S (ppm) 50
Ambient H2S (ppm) 50
AUX1 (units) 100
AUX2 (units) 5

PR33 (ohm) 0
0.01 0.1 1 100 0
PR23 (ohm) 0
0.01 0.1 1 100 0

GAS (units) 500
Wetness (Wh) 70
Balance (Bh) 15

C1-NC4 (units) 200

MD: 11,113'
TVD: 10,575.95'
Inclination: 90.95°
Azimuth: 179.98°
VS: 562.85'

w srt, sil, tr arg fl, vf
dissm, thin cal,
silty, v sl- non calc,
sme free clay, 10% vis
lt grn fluor, fst fnt
yel-grn blmg cut, thin
yel rng

SS: lt gry- offwht, tn- lt
brn, sme med gry, vfg-
f gr, sb rnd- sb ang,
frm- mod hd, fr cmttd,
mod cons, w srt, sil, tr
arg fl, vf dissm pyr,
mmica, slty, v sl- non
calc, sme free clay,
10% vis lt grn fluor, fst
fnt yel-grn blmg cut,
thin yel rng
TR LS: med brn, sb
blky- sb plty, hd, dns,
smth, mic xln

GAMMA (units) 150
ROP (ft/hr) 0
H2S (ppm) 50
Ambient H2S (ppm) 50
AUX1 (units) 100
AUX2 (units) 5

PR33 (ohm) 0
0.01 0.1 1 100 0
PR23 (ohm) 0
0.01 0.1 1 100 0

GAS (units) 500
Wetness (Wh) 70
Balance (Bh) 15

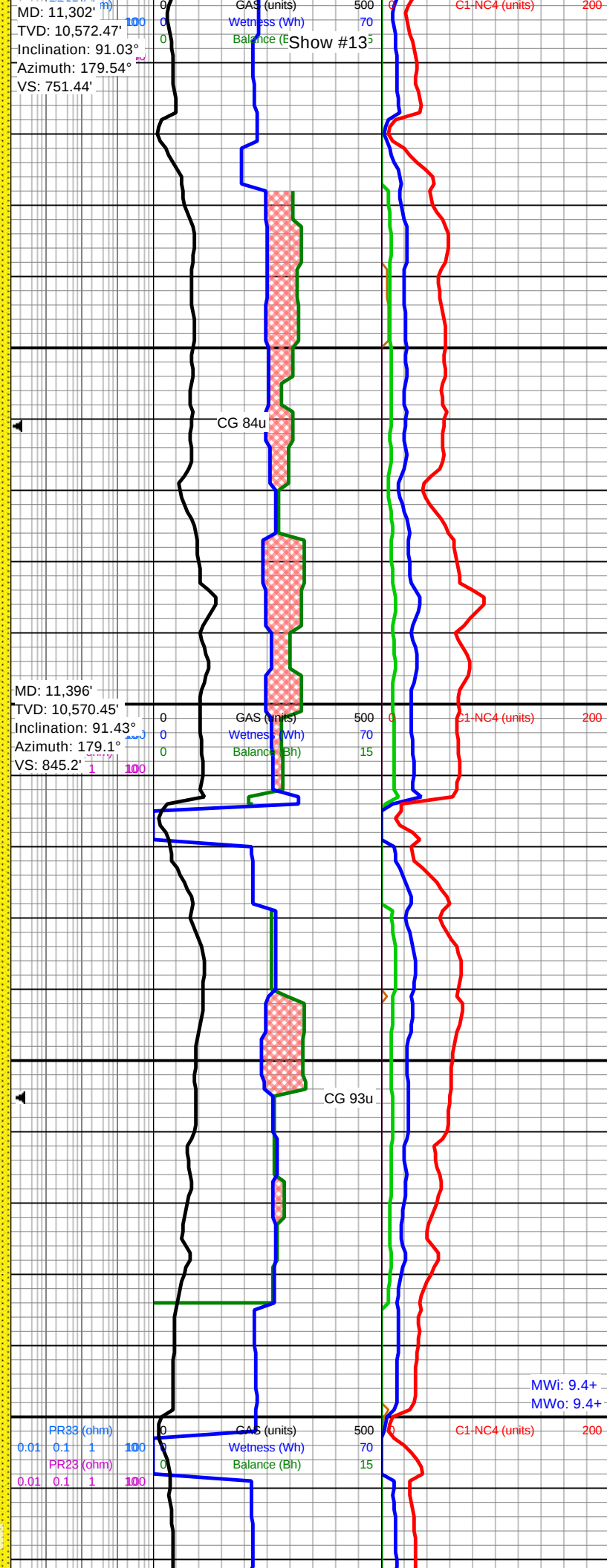
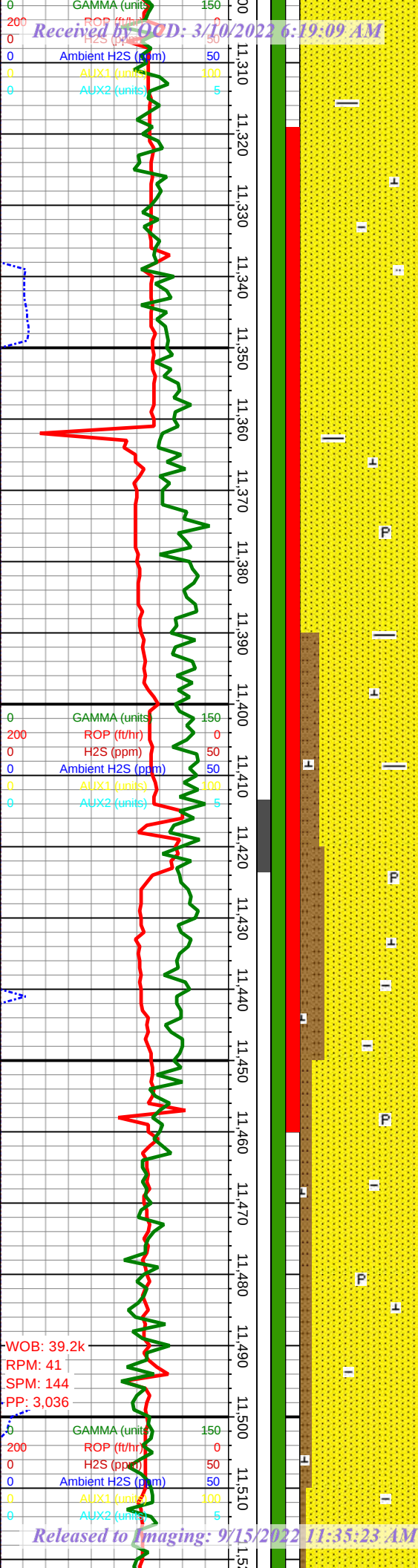
C1-NC4 (units) 200

MD: 11,208'
TVD: 10,574.24'
Inclination: 91.12°
Azimuth: 179.63°
VS: 657.66'

SS: lt gry- offwht, tn- lt
brn, sme med gry, vfg-
f gr, sb rnd- sb ang,
frm- mod hd, fr cmttd,
mod cons, w srt, sil, tr
arg fl, tr vf dissm pyr,
mmica, slty, v sl- non
calc, abnt free clay, 5%
vis lt grn fluor, mod fst
fnt yel-grn blmg cut, v
thin dul yel resdl rng
TR SH: dk gry- blk, sb
blky- sb plty, frm-mod
hd, mod w ind, slty, tr
fe ox

WOB: 36.6k
RPM: 42
SPM: 144
PP: 3,012

MWi: 9.4+
MWO: 9.4+



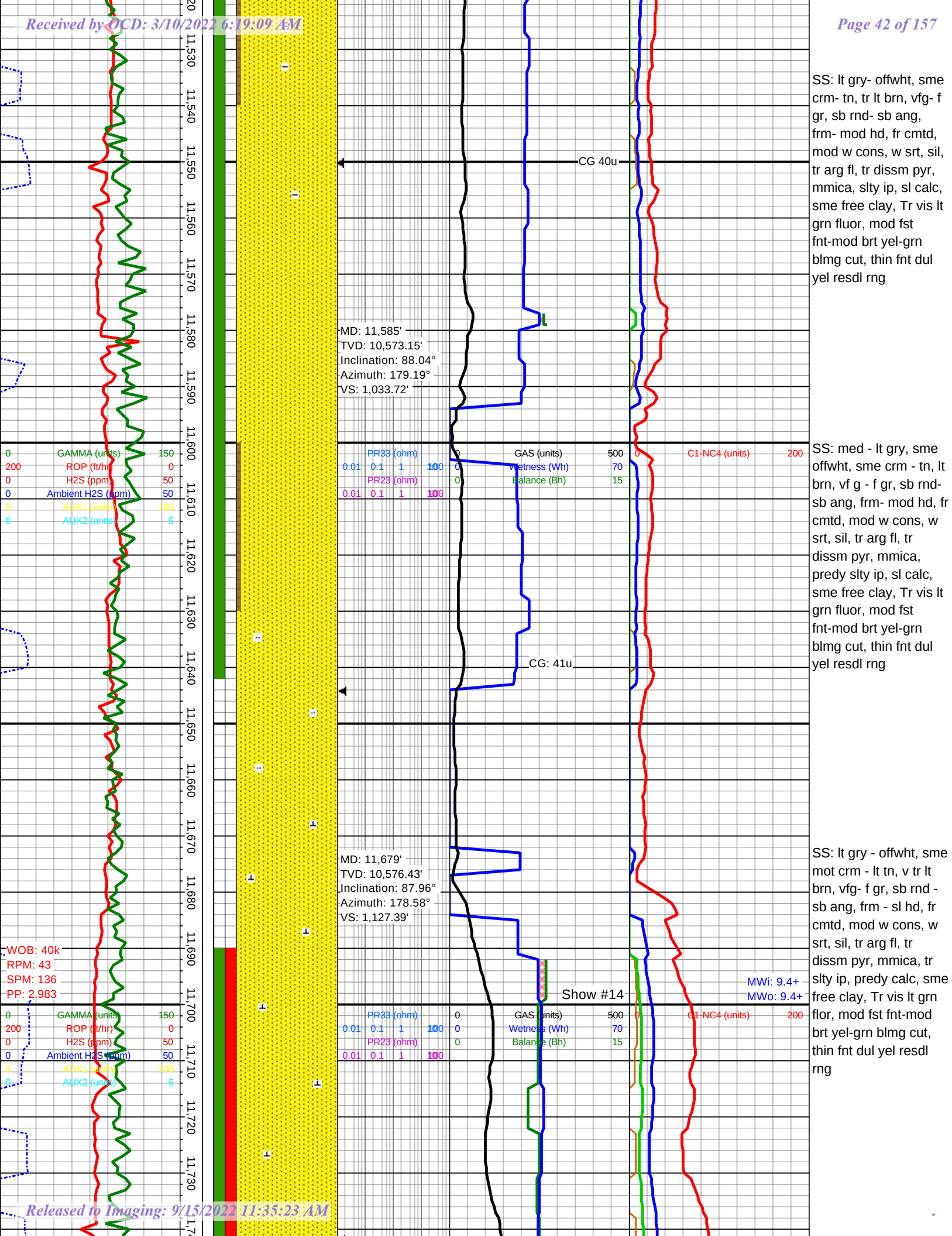
arg fl, dcrrs pyr, mmica, slty, slt, sh, calc, abnt free clay, 5% vis lt grn fluor, mod fst mod brt yel-grn blmg cut, dul yel resdl rng fnt tr SH, fnt tr LS

SS: med gry-med gry brn, sme tn, tr lt gry-offwht, vfg- f gr, sb rnd-sb ang, frm- mod hd, fr cmtd, mod w cons, w srt, sil, tr arg fl, tr dissm pyr, mmica, slty ip, sl calc, sme free clay, 10% vis lt grn fluor, mod fst mod brt yel-grn blmg cut, dul yel resdl rng

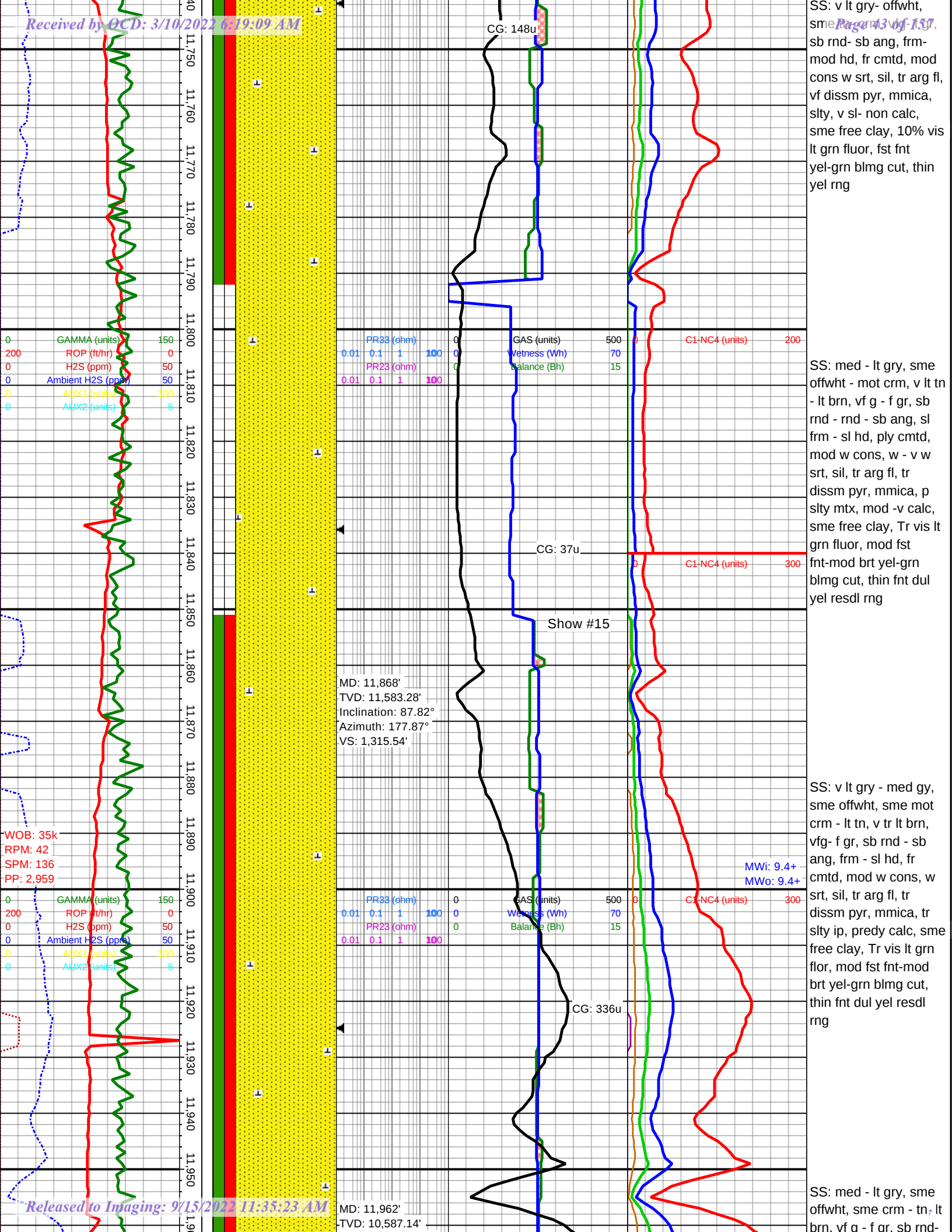
SLTST: brn, med-dk gry brn, sb blkly, frm-mod frm, vf dissm pyr, aren incl, mod calc

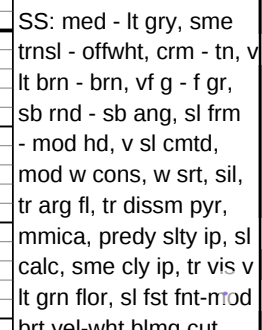
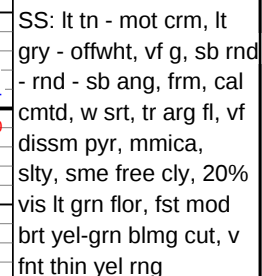
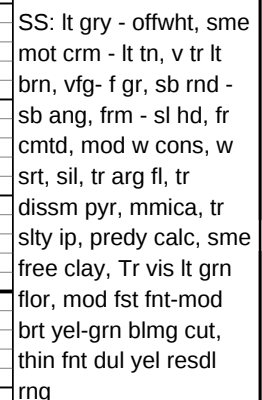
SS: med gry-med gry brn, sme tn, tr lt gry-offwht, vfg- f gr, sb rnd-sb ang, frm- mod hd, fr cmtd, mod w cons, w srt, sil, tr arg fl, tr dissm pyr, mmica, slty ip, sl calc, sme free clay, 10% vis lt grn fluor, mod fst mod brt yel-grn blmg cut, dul yel resdl rng

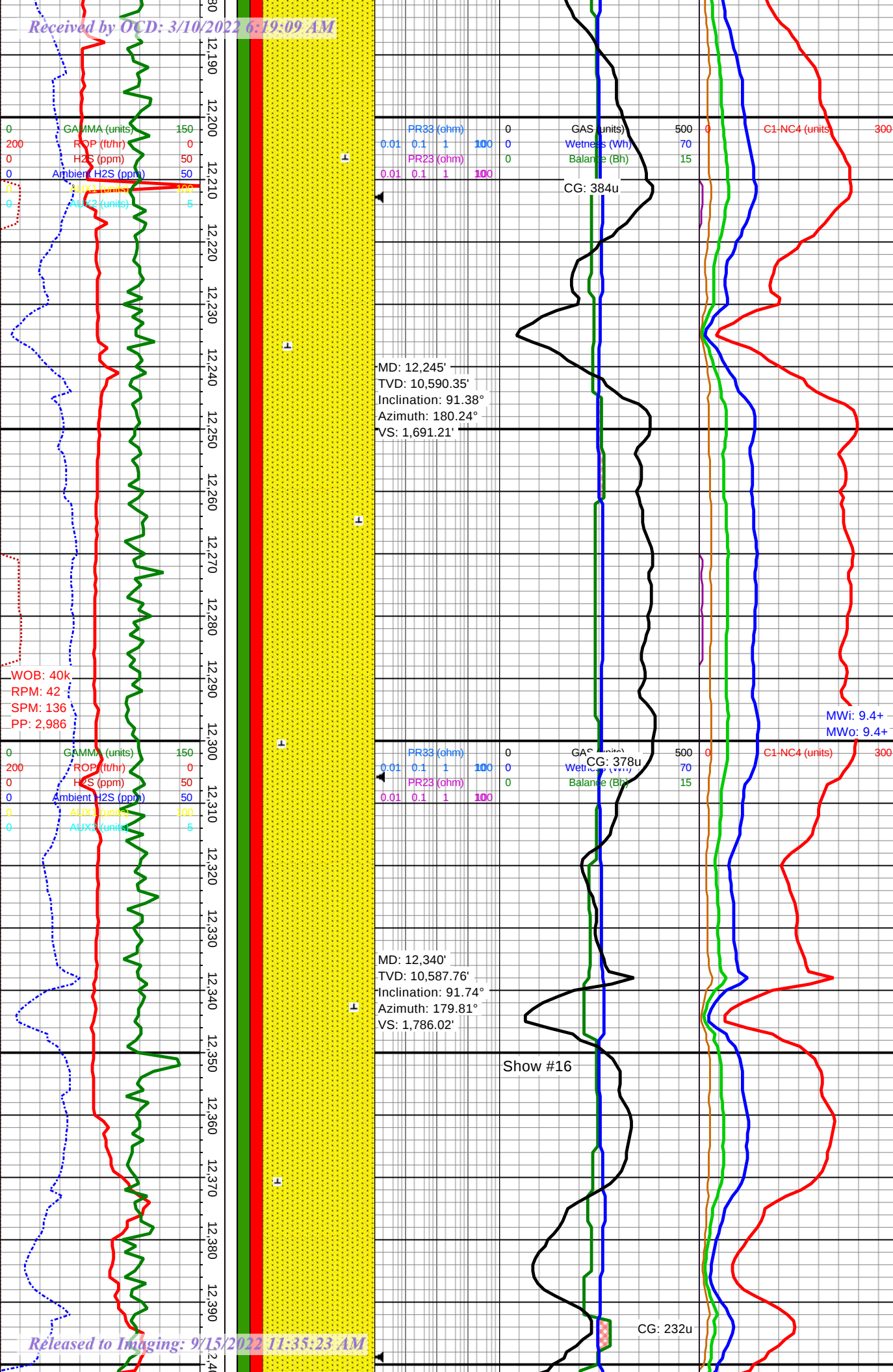
SLTST: brn, med-dk gry brn, sb blkly, frm-mod frm, vf dissm pyr, aren incl, mod calc



Received by OCD: 3/10/2022 6:19:09 AM



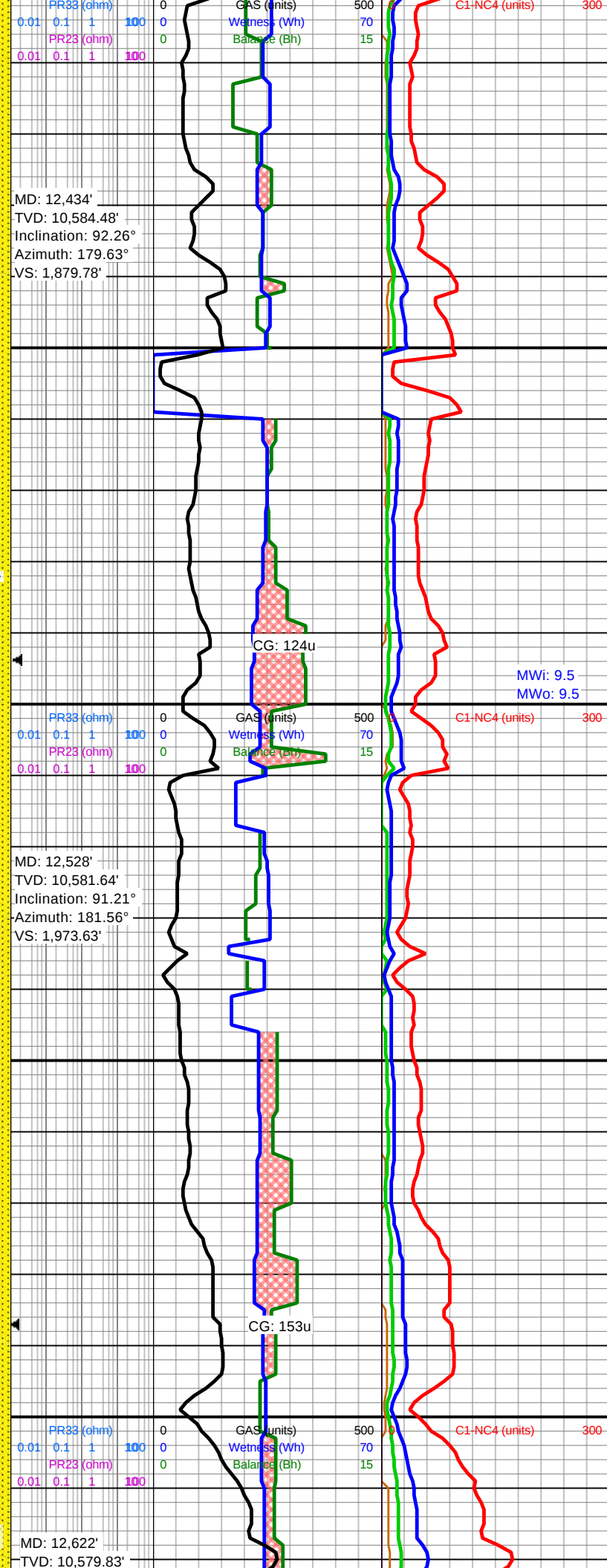
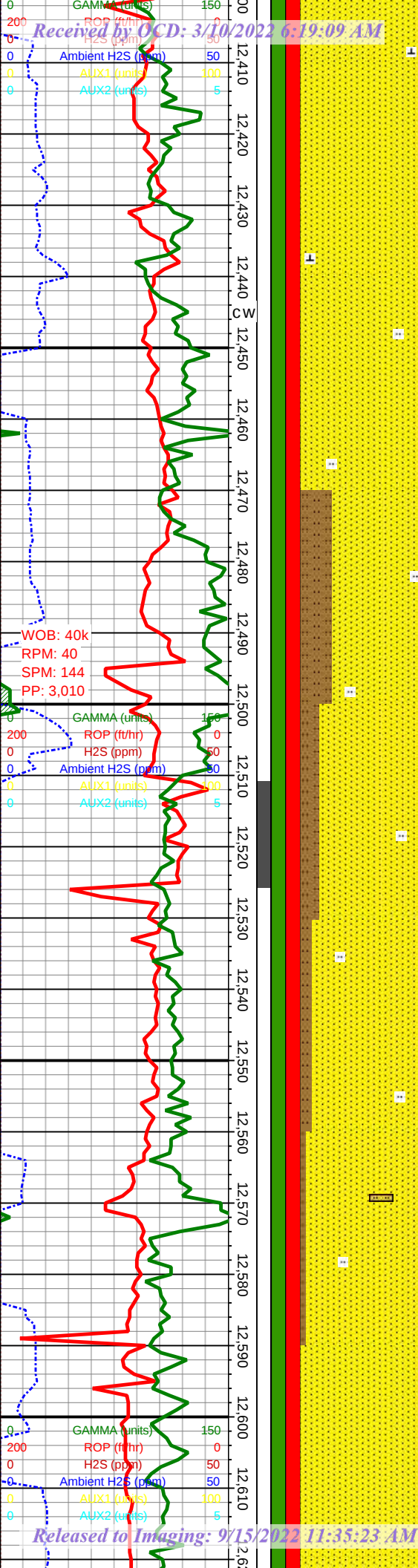




SS: lt gry - offwht, sme
mot crm - lt tn, v tr lt
brn, vfg- f gr, sb rnd -
sb ang, frm - sl hd, fr
cmtd, mod w cons, w
srt, sil, tr arg fl, tr
dissm pyr, mmica, tr
silty ip, predy calc, sme
cly, tr vis lt yel flor, mod
slw, v dull yel-wht difse
cut, thn fnt dul yel/wht
resdl rng

SS: lt tn - mot crm, lt
gry - offwht, vf g, sb rnd
- rnd - sb ang, frm, cal
cmtd, w srt, tr arg fl, vf
dissm pyr, mmica,
silty, sme free cly, 20%
vis lt grn flor, fst mod
brt yel-grn blmg cut, v
fnt thin yel rng

SS: v lt gry- offwht,
sme tn- crm, vfg- f gr,
sb rnd- sb ang, frm-
mod hd, fr cmtd, mod
cons w srt, sil, tr arg fl,
vf dissm pyr, mmica,
silty, v sl- non calc,
sme free clay, 10% vis
dull yel/wht flor, mod
yel-grn difse cut, thn
yel rng



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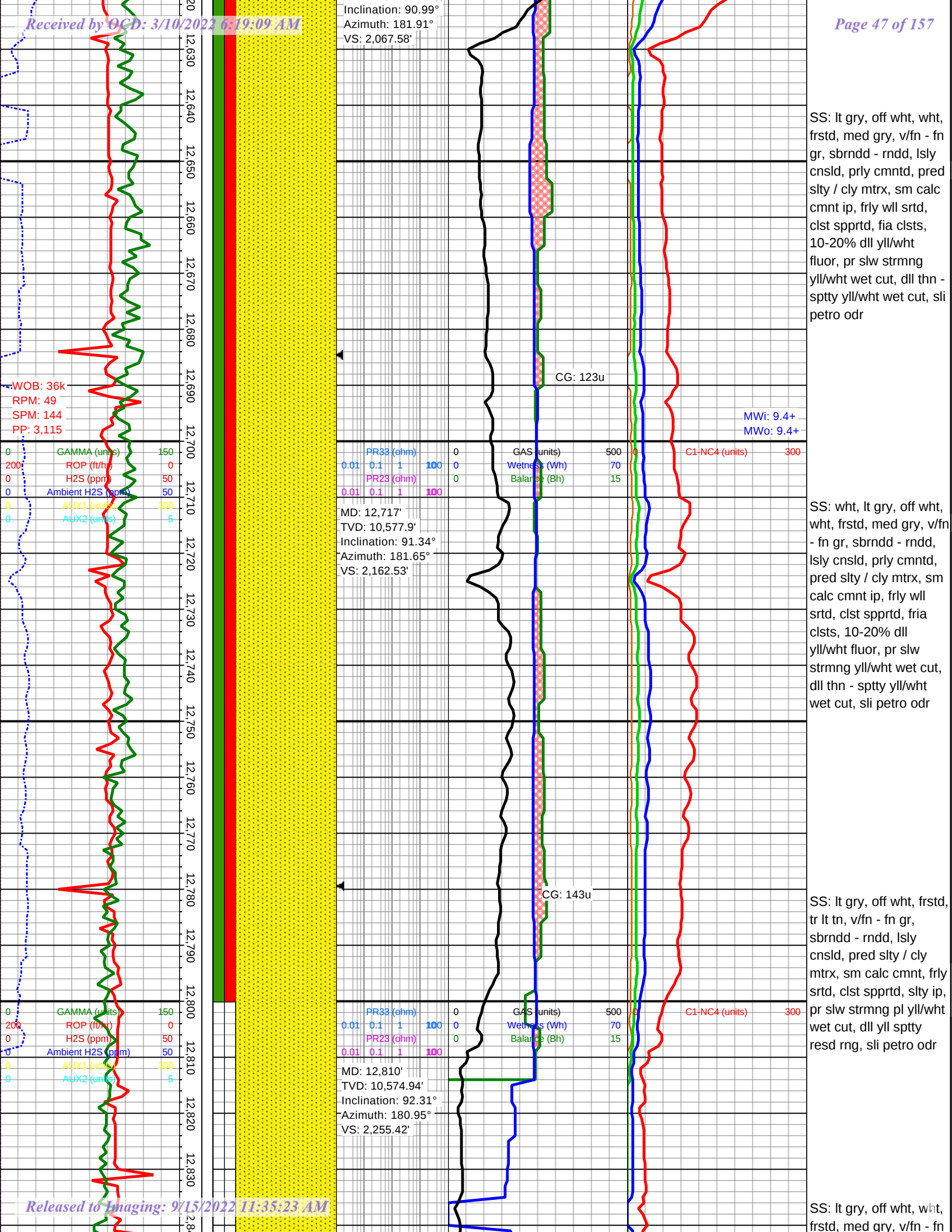
SS: it - med gy, med tn
- mot crm, sme offwht,
f - vf g, sb rnd - rnd, sb
ang - ang, sl frm, cal
cmtd, w srt, tr arg fl, vf
dissm pyr, mmica, sl
silty, sme free cly, 20%
vis lt grn flor, fst mod
brt yel-grn blmg cut, v
fnt thin yel rng

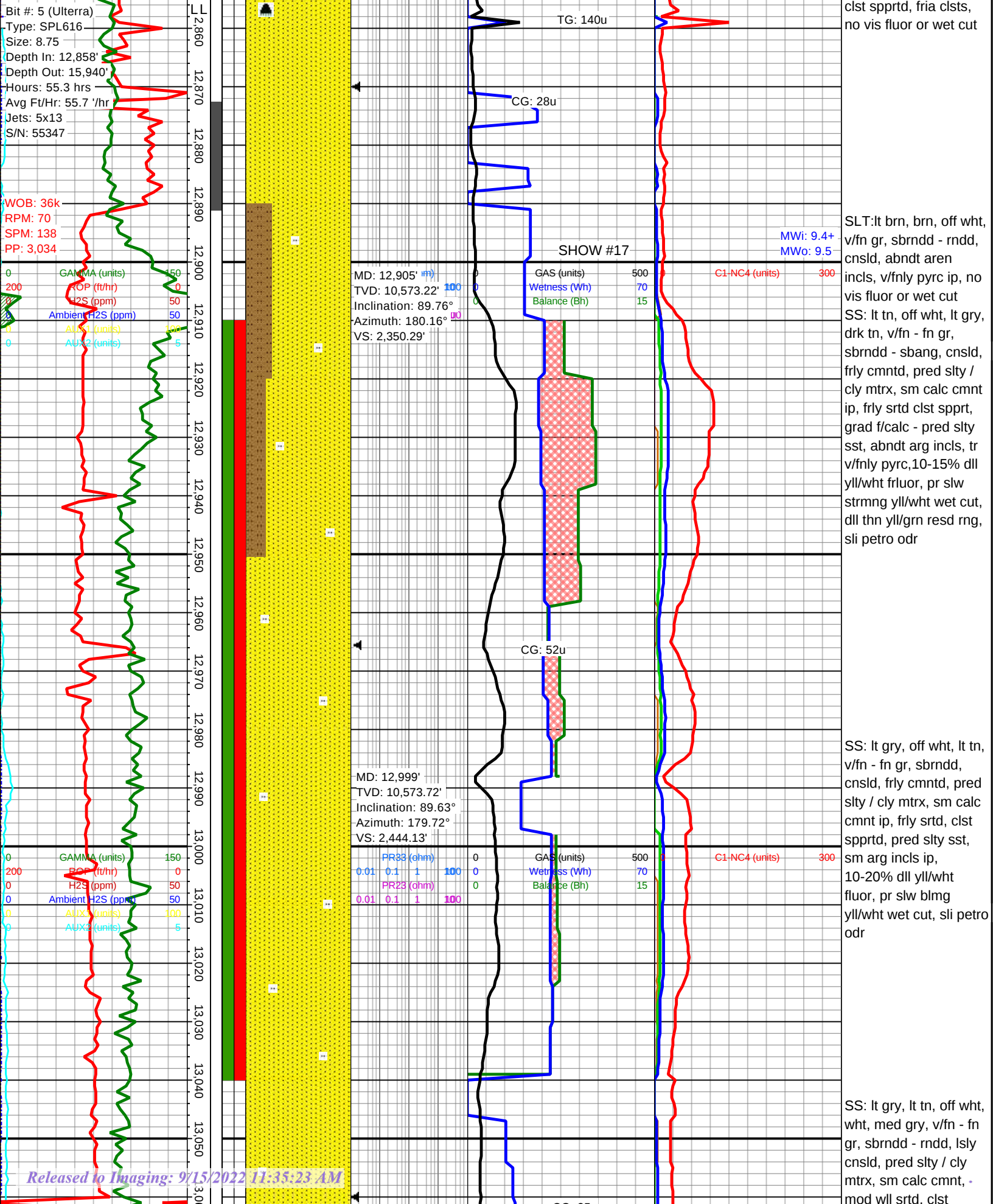
SS: It tn, off wht, lt gry,
drk tn, v/fn - fn gr,
sbrnnd - sbang, cnslid,
frly cmntd, pred slty /
cly mtrx, sm calc cmnt
ip, frly srted clst spprt,
grad f/calc - pred slty
sst, abndt arg incls, tr
v/fnly pyrc, 10-15% dll
yll/wht flruor, pr slw
strmng yll/wht wet cut,
dll thn yll/grn resd rng,
sli petro odr

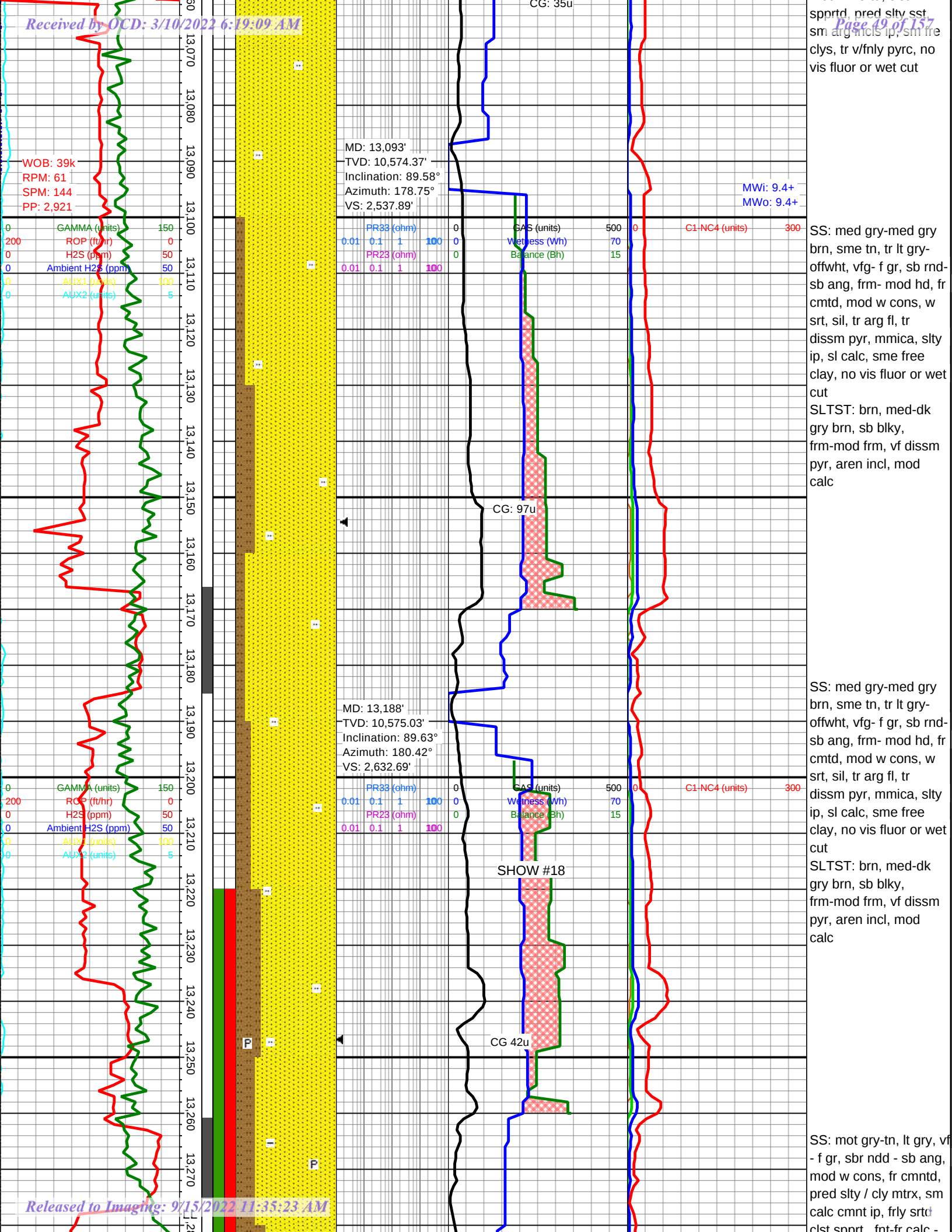
SLT: It brn, brn, off wht,
v/fn gr, sbrnnd - rndd,
cnslid, abndt aren
incls, v/fnly pyrc ip, no
vis fluor or wet cut

SLT: It brn, brn, off wht,
v/fn gr, sbrnnd - rndd,
cnslid, abndt aren
incls, v/fnly pyrc ip, no
vis fluor or wet cut

SS: It tn, lt gry, drk tn,
v/fn - fn gr, sbrnnd -
sbang, cnslid, frly
cmntd, pred slty / cly
mtrx, sm calc cmnt ip,
frly srted clst spprt, grad
f/calc - pred slty sst,
abndt arg incls, tr v/fnly
pyrc, 10-20% dll
yll/gren pr slw strmng
yll/wht wet cut, dll thn
yll/grn resd rng, sli
petro odr







WOB: 42.7k
RPM: 61
SPM: 154
PP: 3,315

GAMMA (units) 150
ROP (ft/hr) 0
H2S (ppm) 50
Ambient H2S (ppm) 50
AUX1 (units) 100
AUX2 (units) 5

GAMMA (units) 150
ROP (ft/hr) 0
H2S (ppm) 50
Ambient H2S (ppm) 50
AUX1 (units) 100
AUX2 (units) 5

WOB: 42.2k
RPM: 61
SPM: 154
PP: 3,205

MD: 13,281'
TVD: 10,573.63'
Inclination: 92°
Azimuth: 180.68°
VS: 2,725.27'

PR33 (ohm) 0
0.01 0.1 1 100 0
PR23 (ohm) 0
0.01 0.1 1 100 0

GAS (units) 500
Wetness (Wh) 70
Balance (Bh) 15

MWi: 9.5
MWO: 9.5

C1-NC4 (units) 300

CG 25u

MD: 13,376'
TVD: 10,569.37'
Inclination: 93.05°
Azimuth: 179.63°
VS: 2,820.33'

PR33 (ohm) 0
0.01 0.1 1 100 0
PR23 (ohm) 0
0.01 0.1 1 100 0

GAS (units) 500
Wetness (Wh) 70
Balance (Bh) 15

C1-NC4 (units) 300

CG 21u

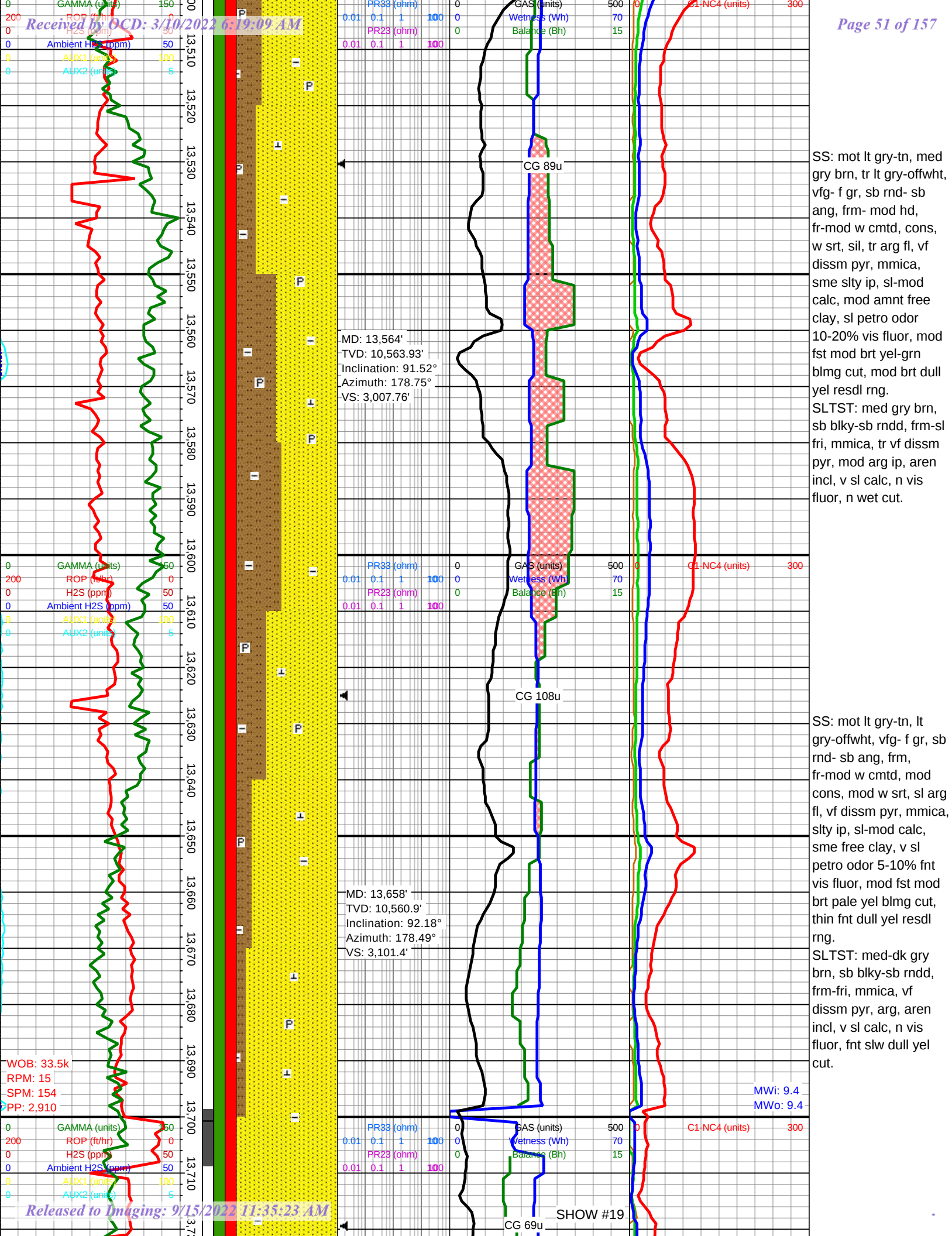
MD: 13,470'
TVD: 10,566.03'
Inclination: 91.03°
Azimuth: 179.19°
VS: 2,914.05'

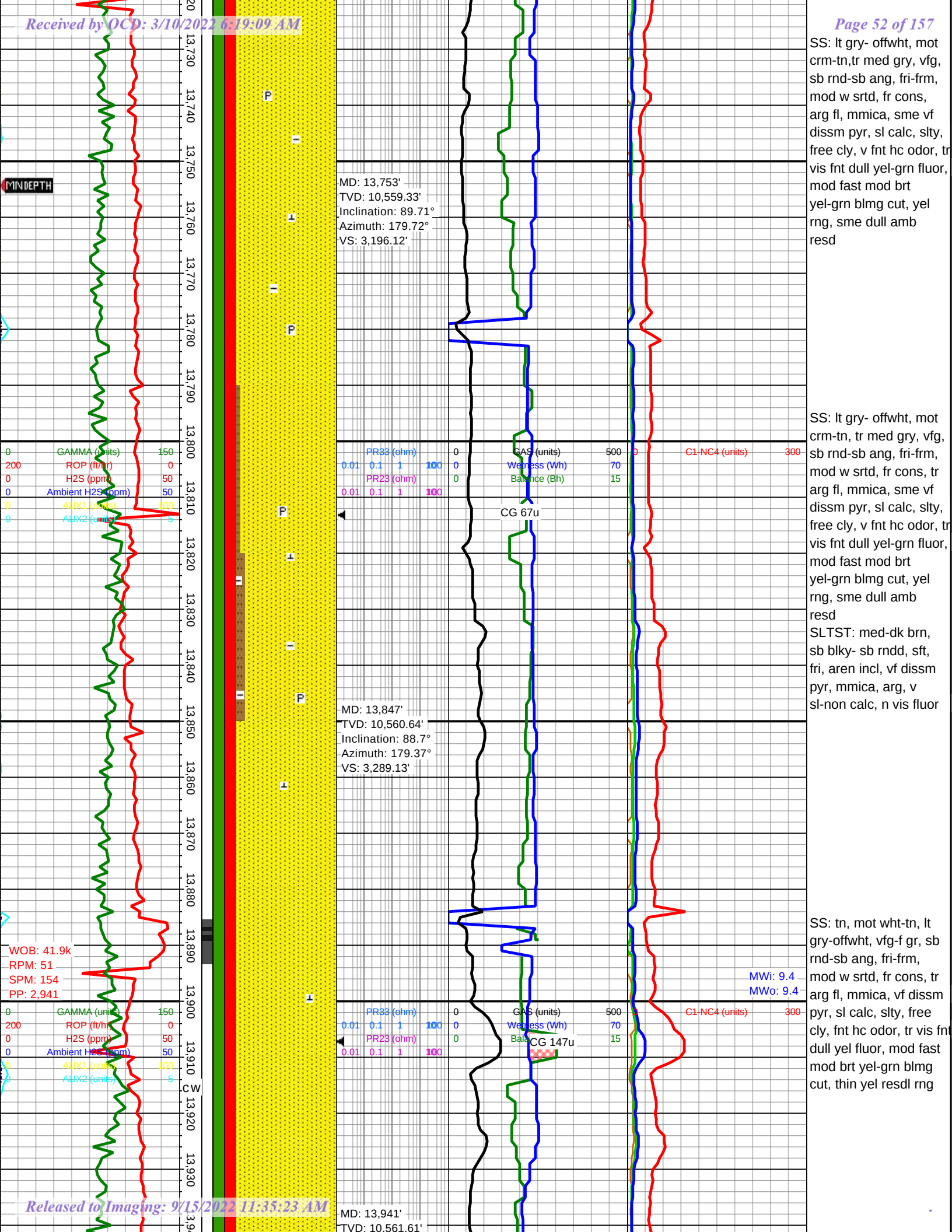
MWi: 9.5
MWO: 9.5

est sppr, int n calc
pred slty sst, abnt arg
incl, tr vt dissim pyr,
5-10% dull yel-grn
fluor p slw strmnng
yel-wht wet cut, mod
brt dull thn yel-grn
resdl rng, fnt petro odr
SLT: lt brn- brn, off wht,
vf gr, sbrndd - rndd,
cons, abnt aren incls,
v/fnly pyrc ip, no vis
fluor or wet cut

SS: med gry-med gry
brn, sme tn, tr lt gry-
offwht, vfg- f gr, sb rnd-
sb ang, frm- mod hd, fr
cmtd, mod w cons, w
srt, sil, tr arg fl, tr
dissm pyr, mmica, slty
ip, sl calc, mod amnt
free clay, 10% vis fluor,
slw blmg fnt yel-grn
cut, v fnt thin dull
yel-grn resdl rng.
TR SLTST: lt-med brn,
sb blkyl-sbrndd,
frm-mod frm, vf dissim
pyr, aren incl, sl-mod
calc

SS: lt- med gry, mot lt
gry-tn, scat offwht, vfg-
f gr, sb rnd- sb ang,
frm- mod hd, fr-mod w
cmtd, cons, w srt, sil, tr
arg fl, vf dissim pyr,
mmica, sme slty ip,
sl-mod calc, mod
amnt free clay,
10-20% vis fluor, mod
fst mod brt yel-grn
blmg cut, mod brt dull
yel resdl rng.
SLTST: med gry brn,
sb blkyl-sb rndd, frm-sl
fri, mmica, tr vf dissim
pyr, mod arg ip, aren
incl, v sl calc, n vis
fluor, n wet cut.





Inclination: 90.11°
Azimuth: 180.77°
VS: 3,383.76'

SS: lt tn, off wht, med tn wht, frstd, v/fn- fn gr, sbrndd - rndd, lsly cnsld, pred slty / cly mtrx, sm calc cmnt ip, frly srtd, clst spprt, slty ip, grad frm pred clen sst to v/slty sst w/ sme arg incls, tr v/fnly pyrc, tr-10% dll yll/wht fluor, pr slw blmg yll/wht wet cut, dll thn spty yll resd rng, sli petro odr
SLT: dk tn, tn, lt brn, off wht, mot ip, v/fn gr, sbrndd - rndd, cnsld, fria clstrs, abndt arg incls, tr v/fnly pyrc, abndt aren incls, no vis fluor or wet cut

0 GAMMA (units) 150
200 ROP (ft/hr) 0
0 H2S (ppm) 50
0 Ambient H2S (ppm) 50
0 AUX1 (units) 100
0 AUX2 (units) 5

PR33 (ohm) 0
0.01 0.1 1 100 0
PR23 (ohm) 0
0.01 0.1 1 100 0

GAS (units) 500
Wellness (V/h) 70
Balance (oh) 15

C1-NC4 (units) 300

CG: 154u

MD: 14,036'
TVD: 10,560.63'
Inclination: 91.08°
Azimuth: 180.95°
VS: 3,478.67'

SS: lt tn, off wht, lt gry, drk tn, v/fn - fn gr, sbrndd - sbang, cnsld, frly cmntd, pred slty / cly mtrx, sm calc cmnt ip, frly srtd clst spprt, grad f/calc - pred slty sst, abndt arg incls, tr v/fnly pyrc, 10-15% dll yll/wht flruor, pr slw strmgng yll/wht wet cut, dll thn yll/grn resd rng, sli petro odr

WOB: 40k
RPM: 70
SPM: 164
PP: 3,335

0 GAMMA (units) 150
200 ROP (ft/hr) 0
0 H2S (ppm) 50
0 Ambient H2S (ppm) 50
0 AUX1 (units) 100
0 AUX2 (units) 5

PR33 (ohm) 0
0.01 0.1 1 100 0
PR23 (ohm) 0
0.01 0.1 1 100 0

GAS (units) 500
Wellness (V/h) 70
Balance (oh) 15

C1-NC4 (units) 300

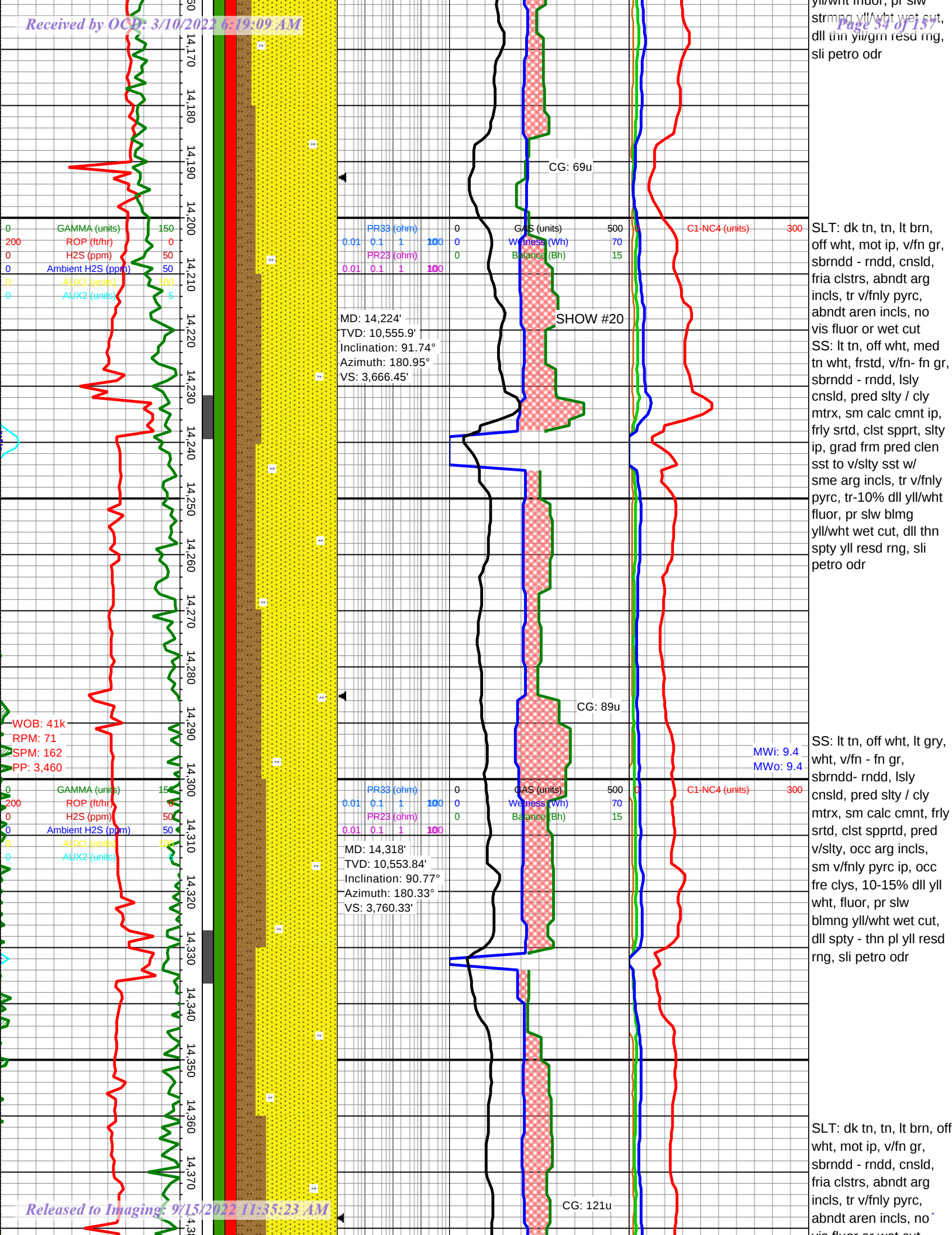
CG: 116u

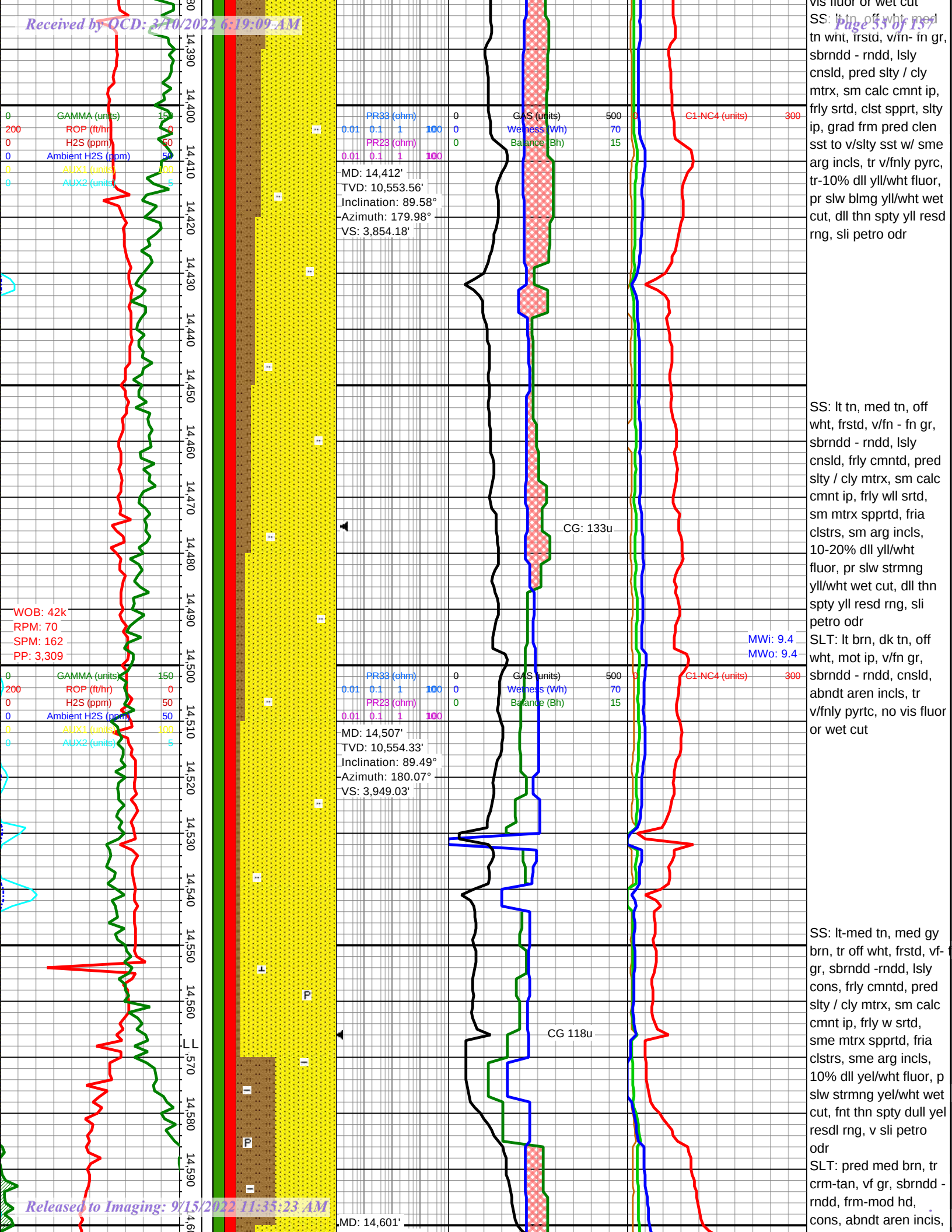
MWi: 9.4
MWo: 9.4

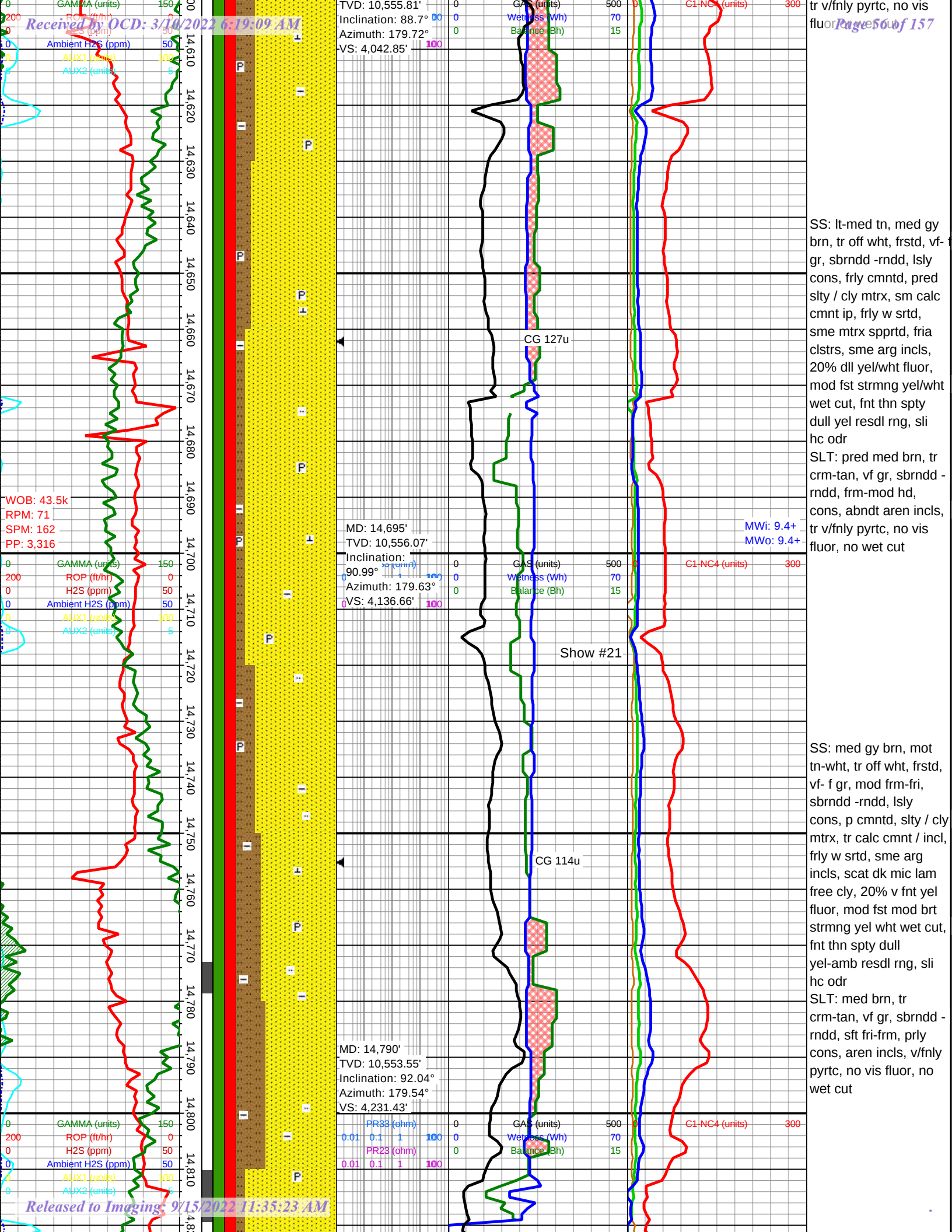
MD: 14,130'
TVD: 10,558.54'
Inclination: 91.47°
Azimuth: 180.95°
VS: 3,572.57'

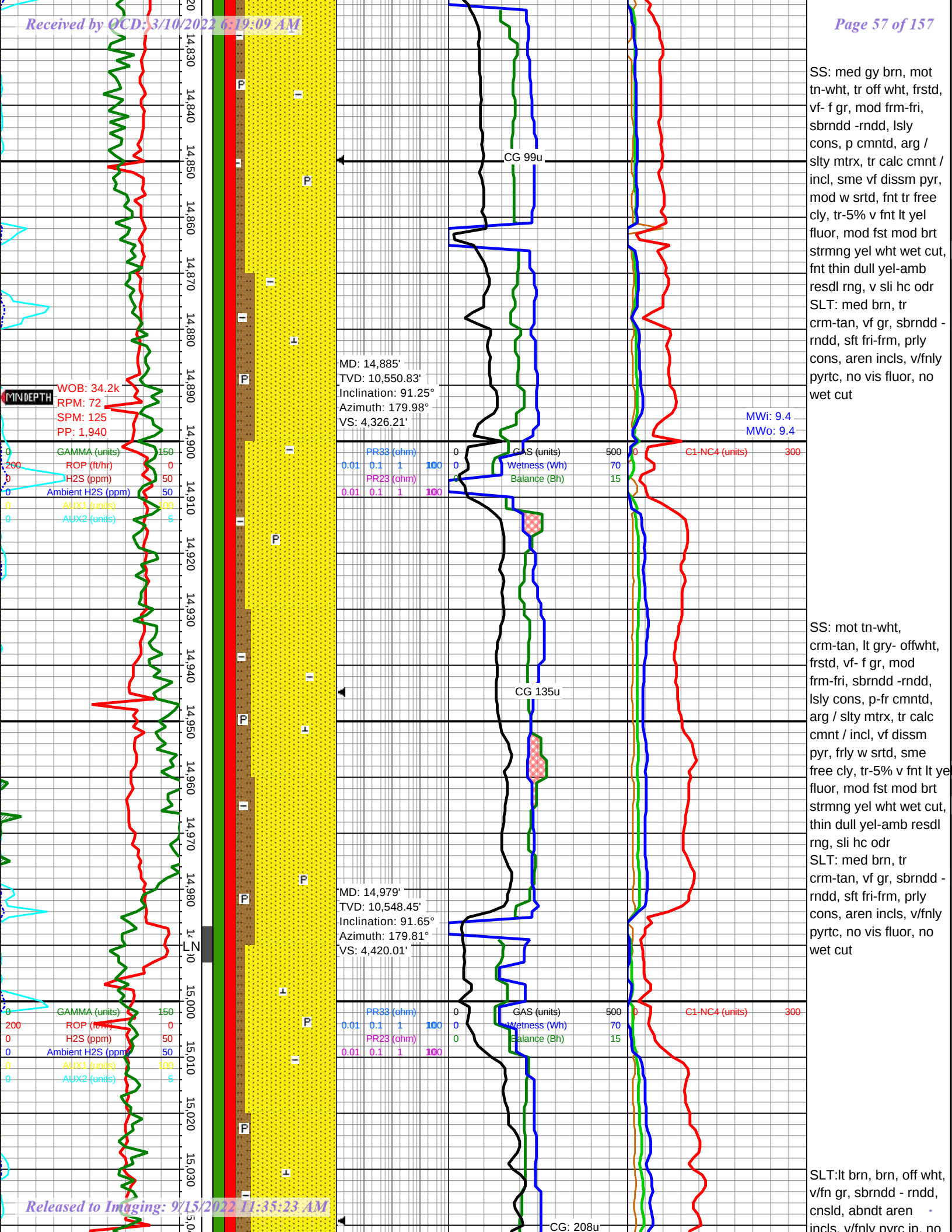
SLT: lt brn, brn, off wht, v/fn gr, sbrndd - rndd, cnsld, abndt aren incls, v/fnly pyrc ip, no vis fluor or wet cut

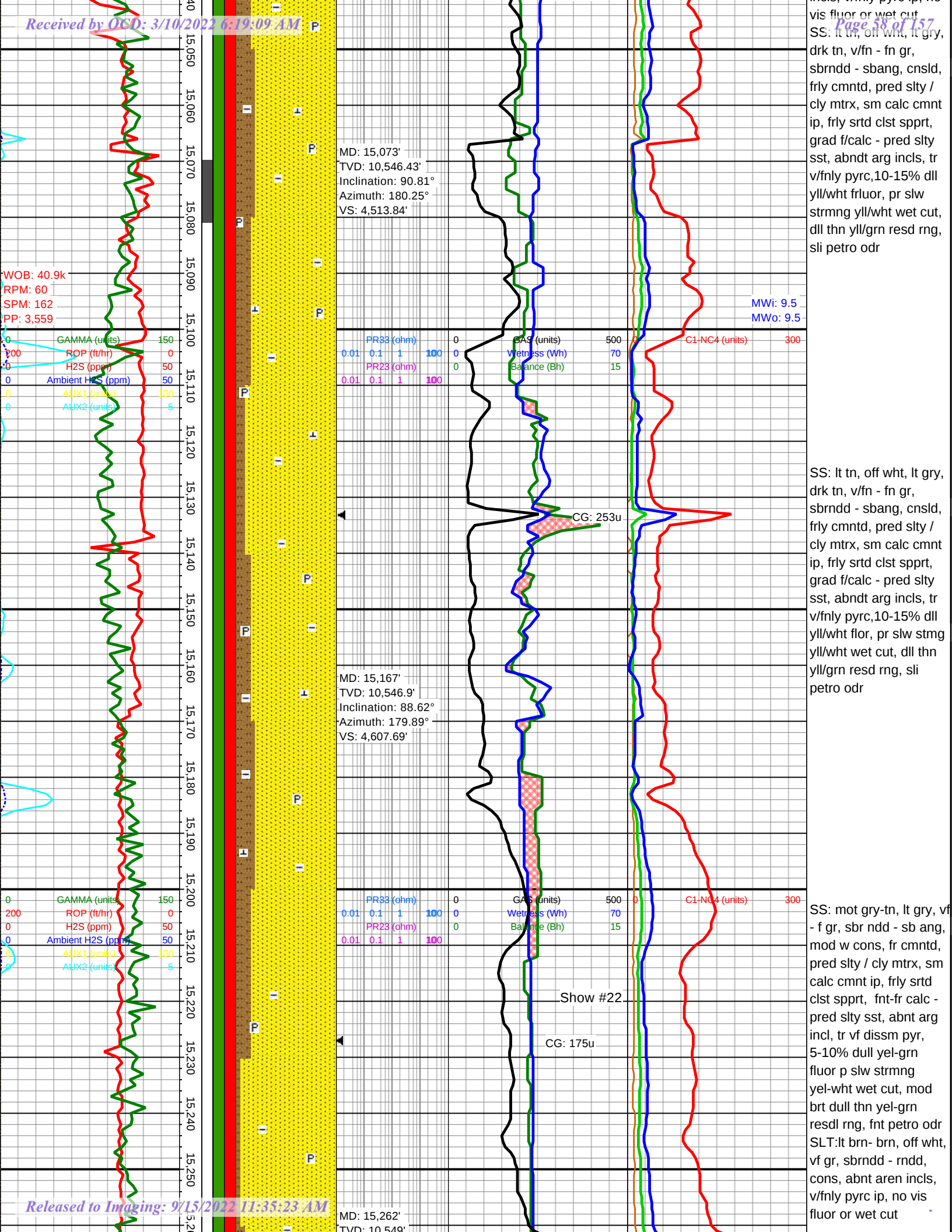
SS: lt tn, off wht, lt gry, drk tn, v/fn - fn gr, sbrndd - sbang, cnsld, frly cmntd, pred slty / cly mtrx, sm calc cmnt ip, frly srtd clst spprt, grad f/calc - pred slty sst, abndt arg incls, tr v/fnly pyrc, 10-15% dll yll/wht flruor, pr slw

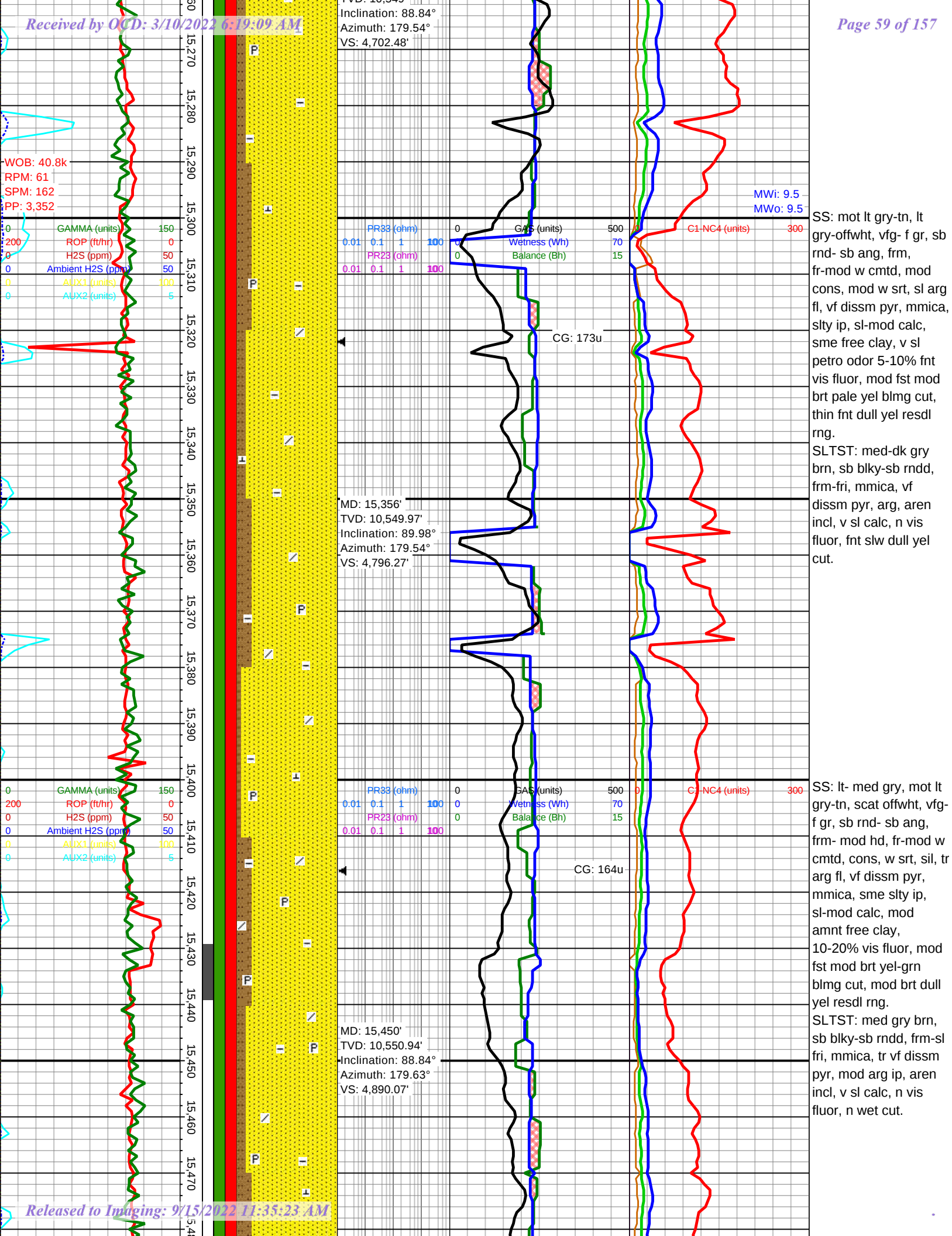






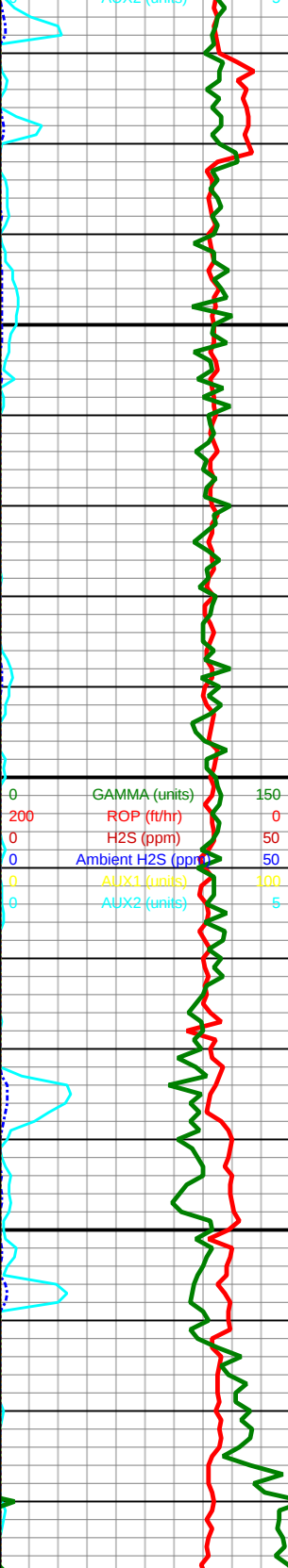






WOB: 43.1k
RPM: 66
SPM: 148
PP: 3,113

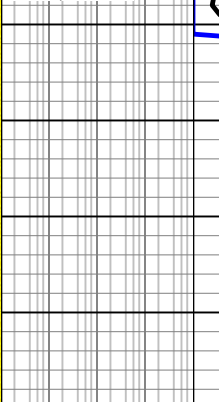
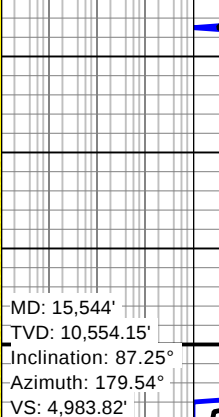
GAMMA (units) 150
ROP (ft/hr) 0
H2S (ppm) 50
Ambient H2S (ppm) 50
AUX1 (units) 100
AUX2 (units) 5



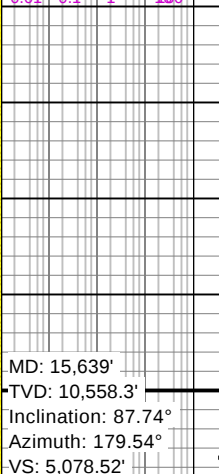
WOB: 43.6k
RPM: 71
SPM: 162
PP: 3,330

PR33 (ohm) 0
0.01 0.1 1 100
PR23 (ohm) 0
0.01 0.1 1 100

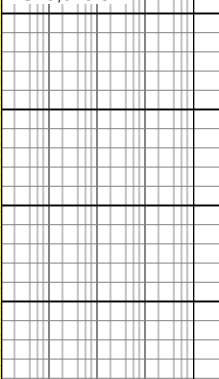
MD: 15,544'
TVD: 10,554.15'
Inclination: 87.25°
Azimuth: 179.54°
VS: 4,983.82'



PR33 (ohm) 0
0.01 0.1 1 100
PR23 (ohm) 0
0.01 0.1 1 100

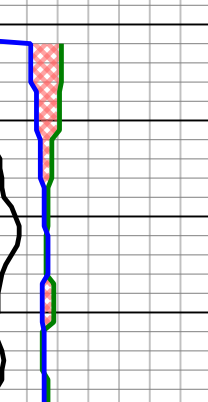
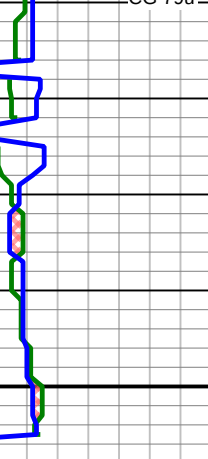


MD: 15,639'
TVD: 10,558.3'
Inclination: 87.74°
Azimuth: 179.54°
VS: 5,078.52'

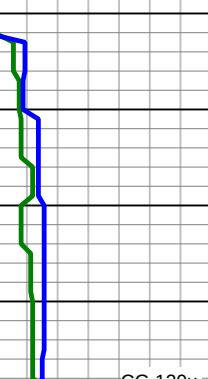
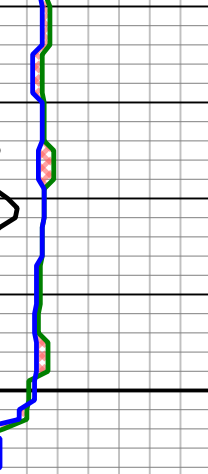


GAS (units) 500
Wetness (Wh) 70
Balance (Bh) 15

CG 79u



GAS (units) 500
Wetness (Wh) 70
Balance (Bh) 15



CG 120u

MWi: 9.5
MWo: 9.5

C1-NC4 (units) 300

CG 79u

CG 143u

CG 143u

CG 143u

CG 143u

CG 143u

CG 143u

CG 143u

CG 143u

CG 143u

CG 143u

CG 143u

CG 143u

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CG 143u

CG 143u

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CG 143u

CG 143u

CG 143u

CG 143u

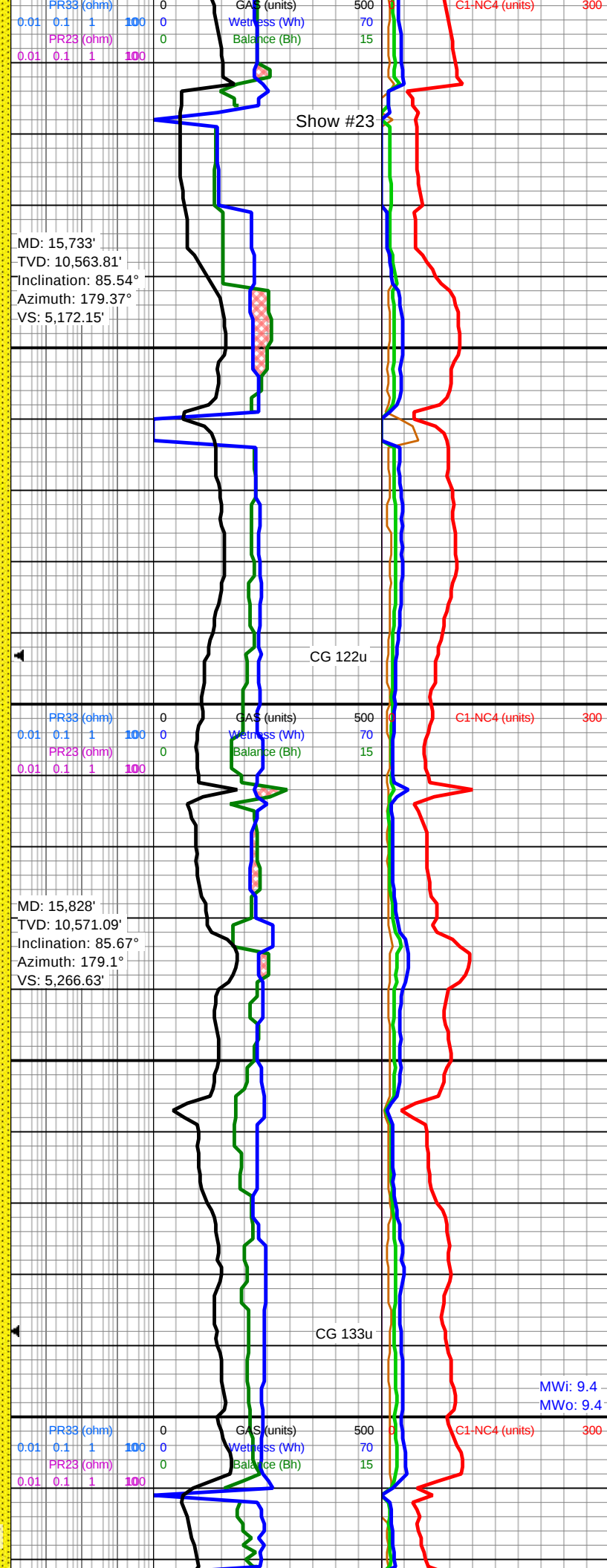
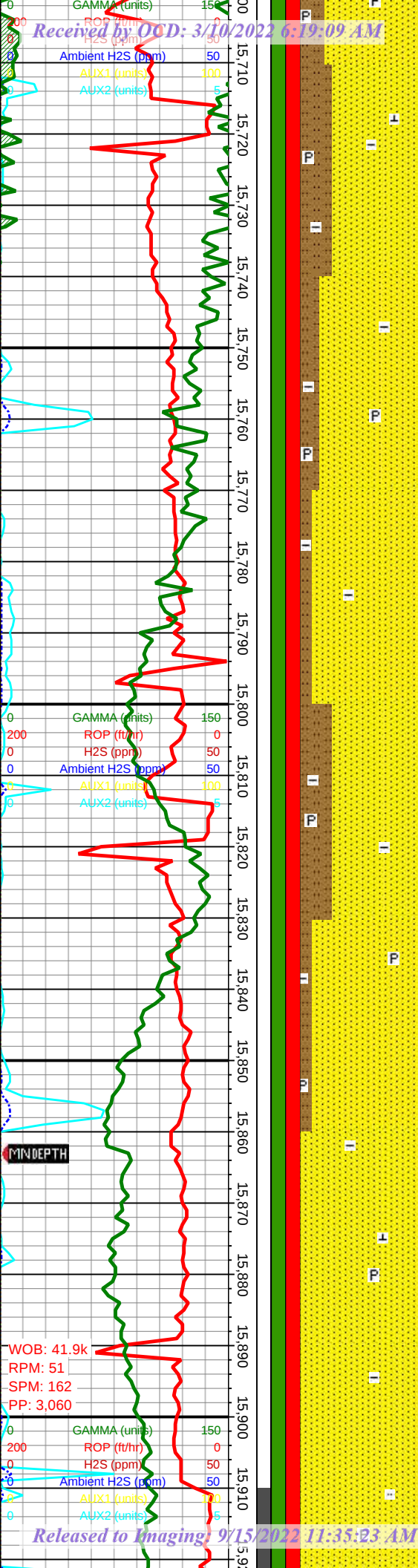
CG 143u

CG 143u

SS: lt tn, offwht, lt gry, drk tn, v/f gr, sb rnd- sb ang, cnsl'd, frly cmntd, pred slty / cly mtrx, sm calc cmt ip, sl-mod calc, fr srt'd clst spprt, grad f/calc - pred slty sst, abndt arg incl's, tr v/fnly pyrc, 10-15% dll yll/wht flruor, pr slw strmgng yll/wht wet cut, dll thn yll/grn resd rng, sli petro odr

SS: offwht, lt gry, sme mot wht- tn, v f gr-f gr, sb rnd- sb ang, cnsl'd, frly cmntd, pred slty / cly mtrx, sme calc cmt, fr srt'd clst spprt, grad f/calc - pred slty, abndt arg incl's, tr vf diss'm pyr, scat free cly, 10-20% dul yel/wht flruor, mod fast strmgng yel/wht wet cut, thn dul yel resd rng, sli petro odr

SS: pred offwht-lt gry, scat mot wht-tn, crm, v f gr-f gr, sb rnd- sb ang, mod w cnsl'd, frly cmntd, pred slty / cly mtrx, sme calc cmt, sme sl calc, mod arg, tr vf diss'm pyr, scat free cly, 10% dul yel flruor, mod fst strmgng yel wht wet cut, fnt thn pale yel-amb resd rng, v sli petro odr
SLTST: med-dk brn, sbblky sbbrndd, v-ultra f



gr, sft frm, tr hd dns, fri, sme aren incl, n-v sl calc, n vis fluor, v fnt v slw yel-wht blmg cut, fnt dull yel resdl rng

SS: tn, mot tn-wht, lt gry-offwht, v f gr-f gr, sb rnd- sb ang, mod cnsld, frly cmntd, slty / cly mtrx, sl calc, mod arg, tr vf dissim pyr, scat free cly, 10-20% dul yel fluor, mod fst strmgng yel wht wet cut, fnt thn pale yel-amb resd rng, v sli petro odr

SLTST: med-dk brn, sbblky sbrndd, v-ultra f gr, sft frm, tr hd dns, arg fl, vf dissim pyr, sme aren incl, n-v sl calc, n vis fluor, v fnt v slw yel-wht blmg cut, fnt dull yel resdl rng

SS: mot tn-wht, lt gry-offwht, v f gr-f gr, sb rnd- sb ang, mod cnsld, frly cmntd, slty / cly mtrx, sl calc, sl-mod arg, mod pyrtc, mmica, sme free cly, 10-15% dul yel fluor, mod fst mod brt strmgng yel wht wet cut, dull yel-amb resd rng, sli petro odr

Tr SLTST

T.O.H DUE TO MWD TOOL
FAILURE @ 15,940'

MINDEPTH

Bit #: 6 (Baker Hughes)
Type: DD506TX
Size: 8.75
Depth In: 15,940'
Jets: 6x16
S/N: 5317578

MD: 15,951'
TVD: 10,578.68'
Inclination: 87.25°
Azimuth: 178.94°
VS: 5,389.05'

CG 81u

PR33 (ohm) 0
0.01 0.1 1 100 0
PR23 (ohm) 0
0.01 0.1 1 100 0

GAS (units) 500 0
Wetness (Wt) 70
Balance (Bh) 15

C1-NC4 (units) 300

MD: 16,045'
TVD: 10,581.23'
Inclination: 89.64°
Azimuth: 178.98°
VS: 5,482.75'

CG 168u

PR33 (ohm) 0
0.01 0.1 1 100 0
PR23 (ohm) 0
0.01 0.1 1 100 0

GAS (units) 500 0
Wetness (Wt) 70
Balance (Bh) 15

C1-NC4 (units) 300

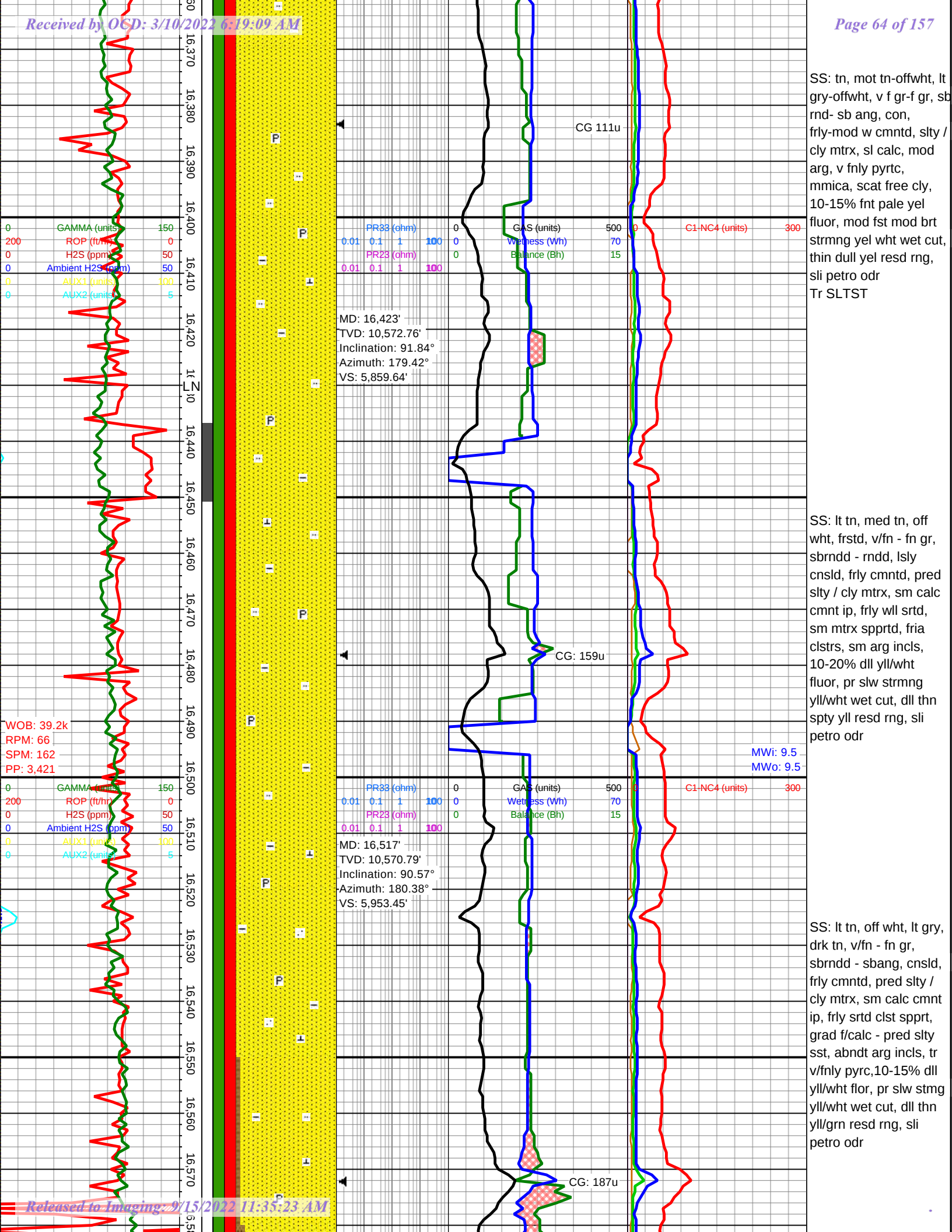
MWi: 9.4
MWo: 9.4

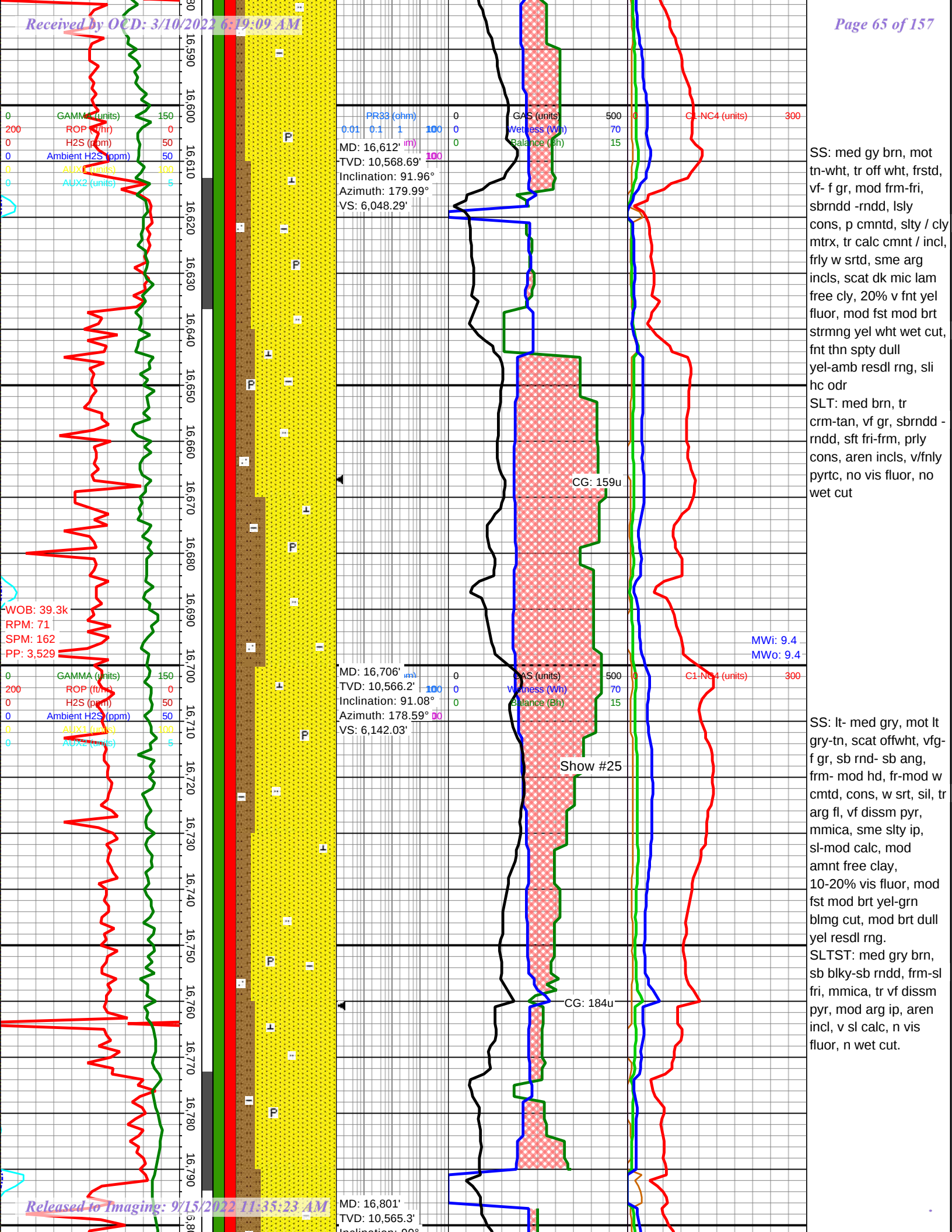
SS: tn, mot tn-wht, tr lt
gry-offwht, v f gr-f gr, sb
rnd- sb ang, mod
cnsls, frly cmntd, slty /
cly mtrx, sl calc, mod
arg, sl pyrtc, mmica, tr
free cly, 5-10% dul yel
flour, mod fst mod brt
strmgng yel wht wet cut,
dull yel-amb resd rng,
sli petro odr
SLTST: med brn,
sbbiky-sbrndd, vf-u f
gr, sft frm, arg fl, aren
incl, vf dissym pyr, v sl
calc, n vis flour, tr fnt
yel wht stmg cut, v fnt
dull yel rng

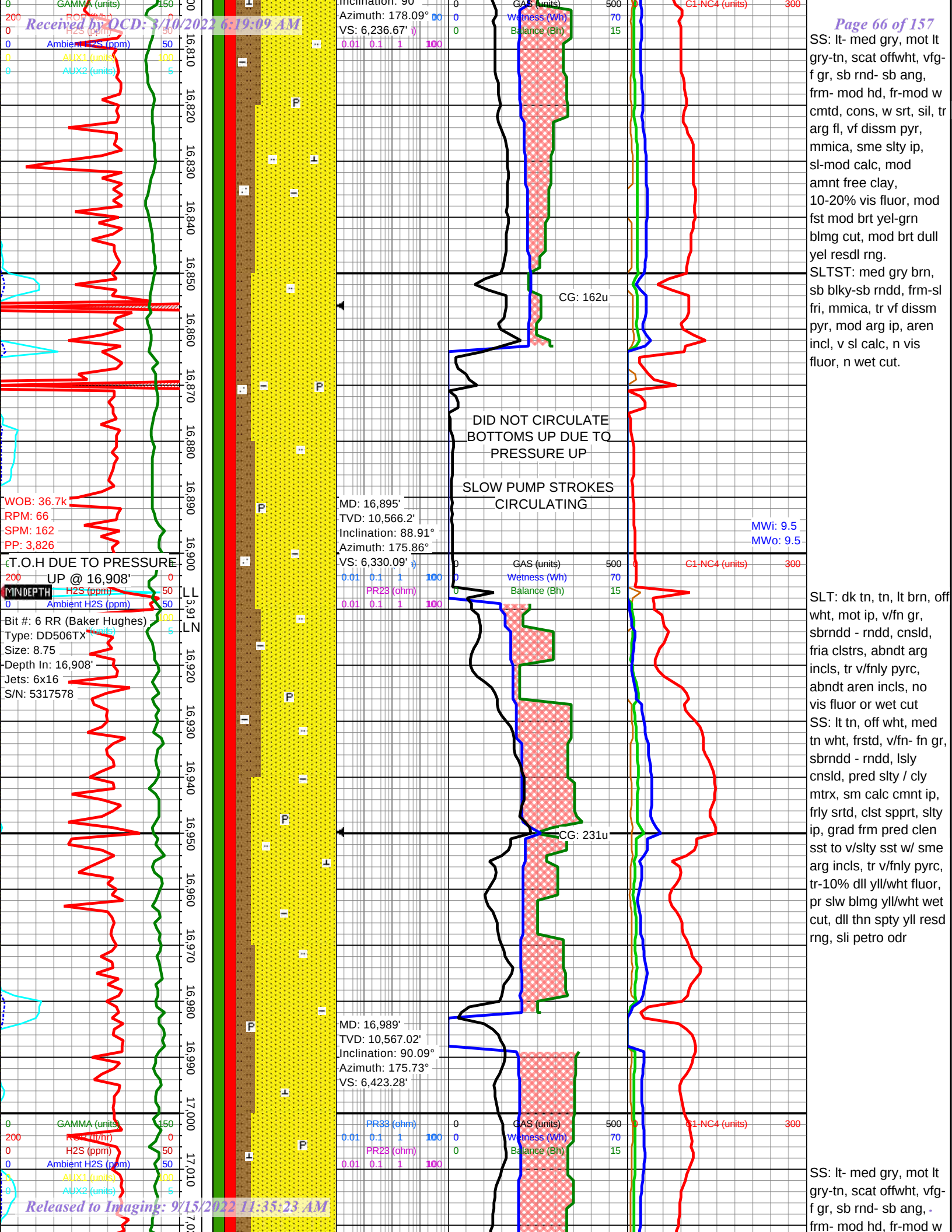
SS: tn, lt gry-offwht,
mot tn-offwht, v f gr-f
gr, sb rnd- sb ang,
mod cnsls, frly cmntd,
slty / cly mtrx, sl calc,
mod arg, sl pyrtc,
mmica, scat free cly,
5-10% dul yel flour,
mod fst frly brt strmgng
yel wht wet cut, thin
dull yel-amb resd rng,
sli petro odr
TR SLTST

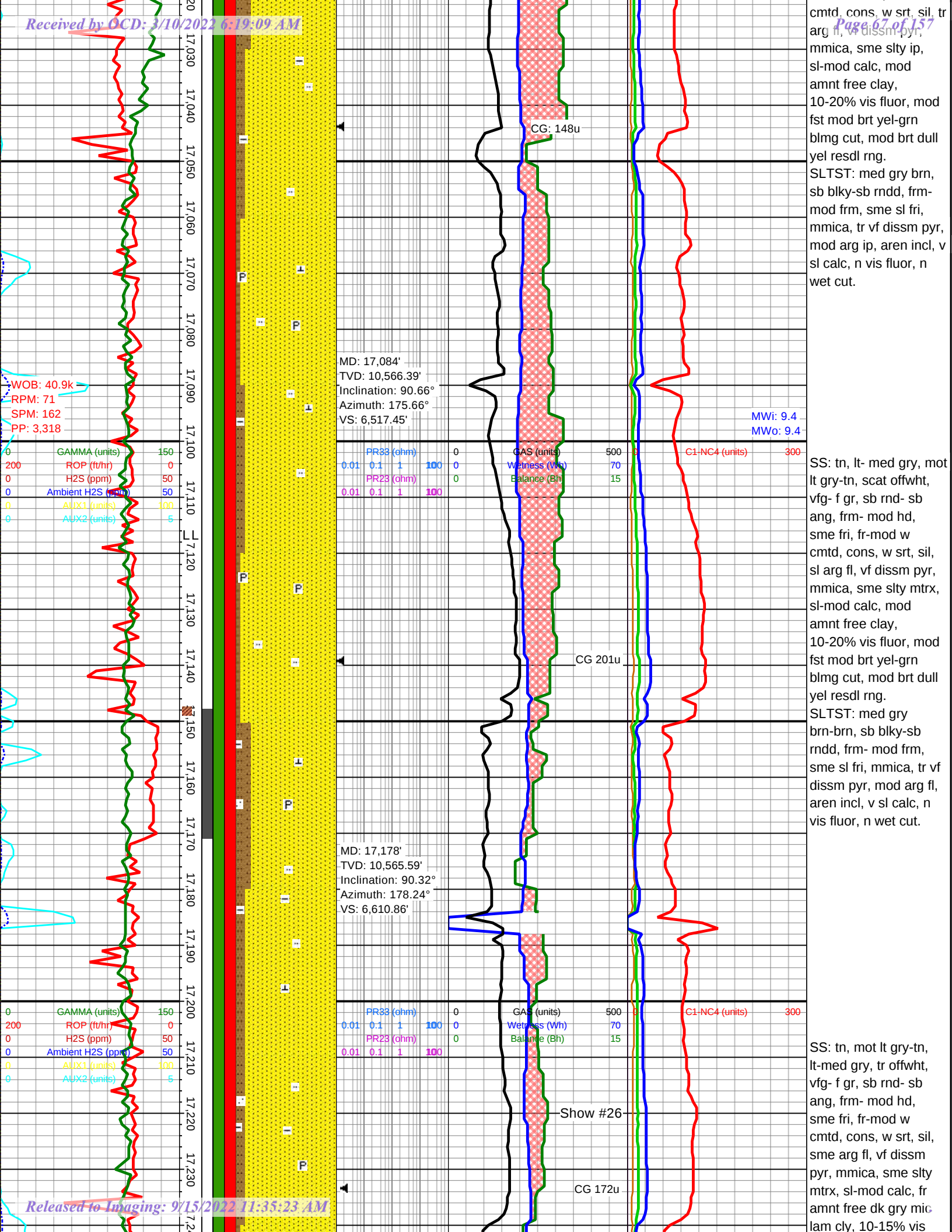
SS: tn, mot tn-offwht,
sme lt gry-offwht, v f
gr-f gr, sb rnd- sb ang,
mod cnsls, frly cmntd,
slty / cly mtrx, sl calc,
mod arg, sl pyrtc,
mmica, scat free cly,
5-10% dul yel flour,
mod fst frly brt strmgng
yel wht wet cut, thin

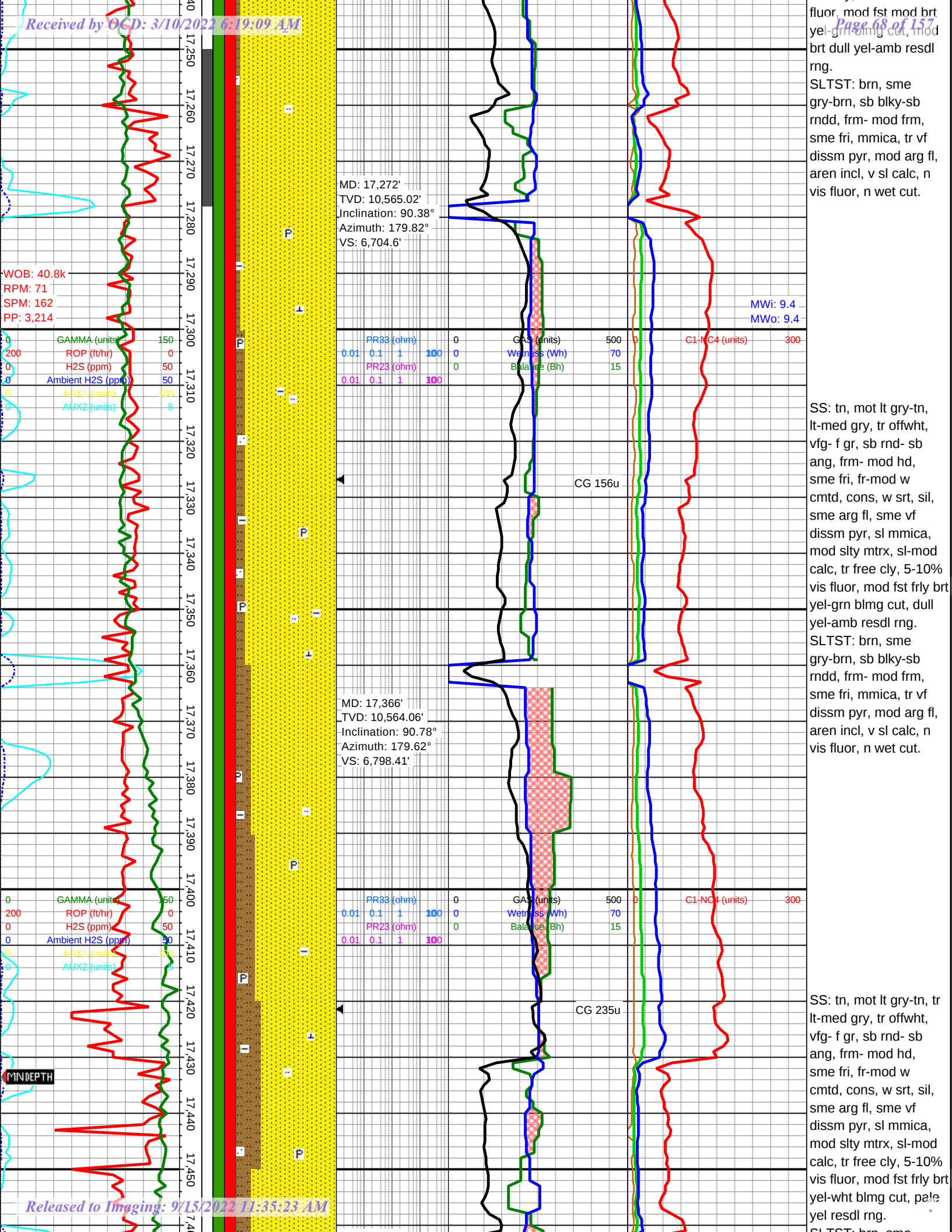
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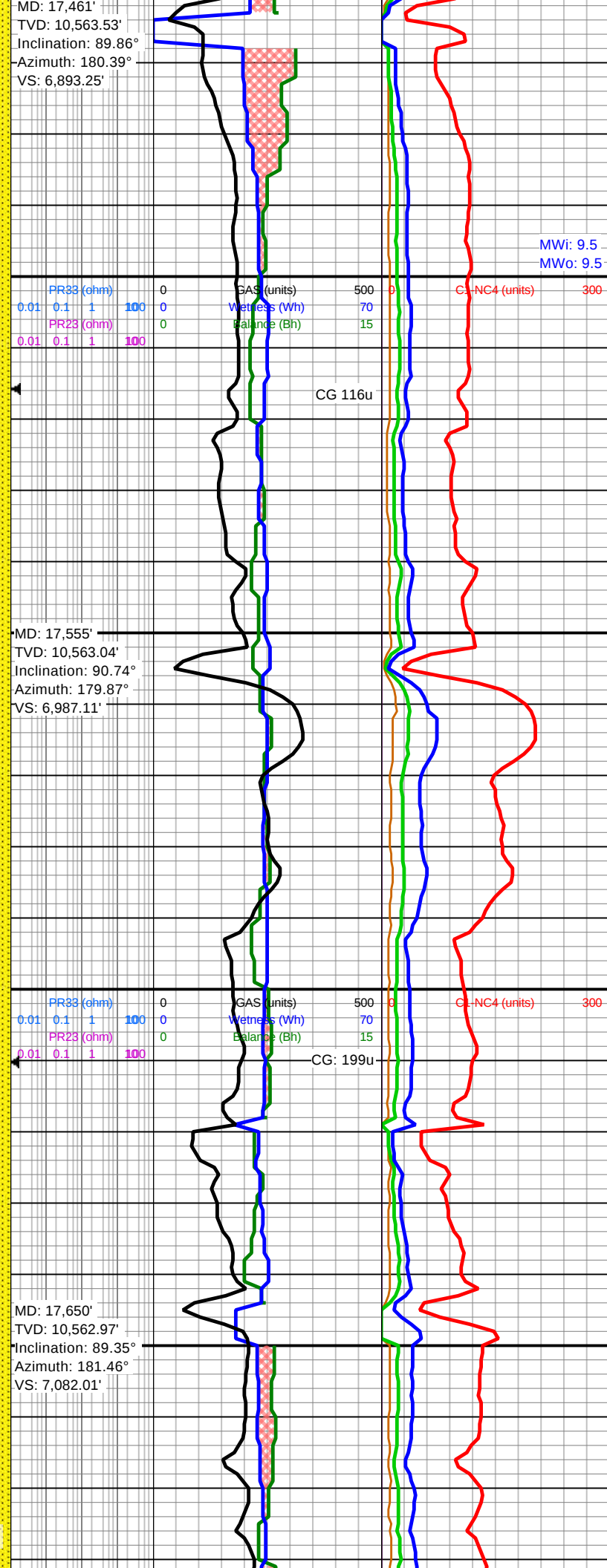
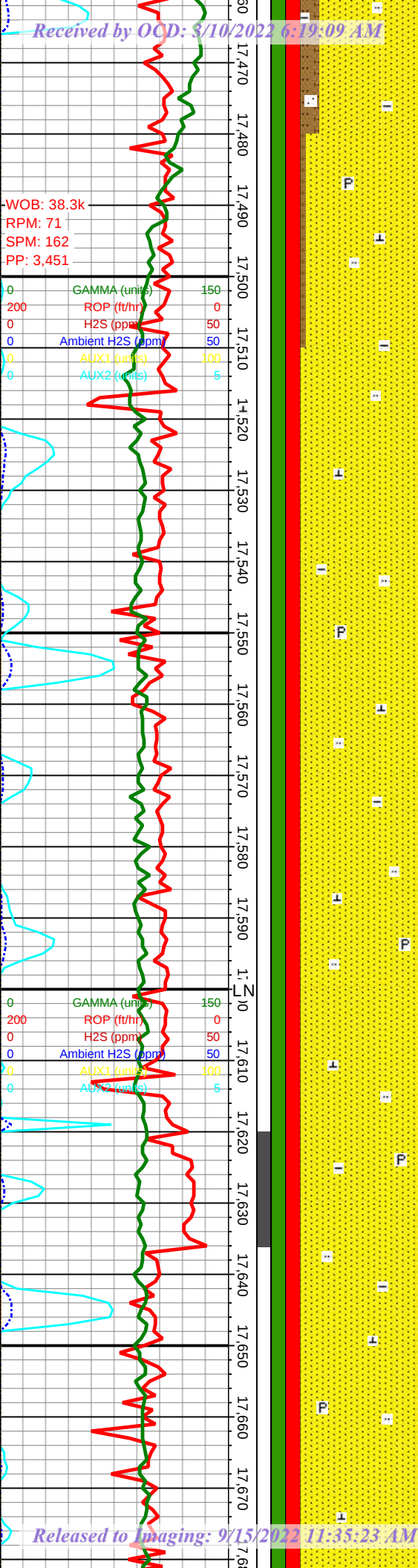




fluor, mod fst mod brt
yel-grn blmg cut, mod
brt dull yel-amb resdl
rng.
SLTST: brn, sme
gry-brn, sb blk-y-sb
rddd, frm- mod frm,
sme fri, mmica, tr vf
dissm pyr, mod arg fl,
aren incl, v sl calc, n
vis fluor, n wet cut.

SS: tn, mot lt gry-tn,
lt-med gry, tr offwht,
vfg- f gr, sb rnd- sb
ang, frm- mod hd,
sme fri, fr-mod w
cmtd, cons, w srt, sil,
sme arg fl, sme vf
dissm pyr, sl mmica,
mod stly mtrx, sl-mod
calc, tr free cly, 5-10%
vis fluor, mod fst frly brt
yel-grn blmg cut, dull
yel-amb resdl rng.
SLTST: brn, sme
gry-brn, sb blk-y-sb
rddd, frm- mod frm,
sme fri, mmica, tr vf
dissm pyr, mod arg fl,
aren incl, v sl calc, n
vis fluor, n wet cut.

SS: tn, mot lt gry-tn, tr
lt-med gry, tr offwht,
vfg- f gr, sb rnd- sb
ang, frm- mod hd,
sme fri, fr-mod w
cmtd, cons, w srt, sil,
sme arg fl, sme vf
dissm pyr, sl mmica,
mod stly mtrx, sl-mod
calc, tr free cly, 5-10%
vis fluor, mod fst frly brt
yel-wht blmg cut, pale
yel resdl rng.
SLTST: brn, sme



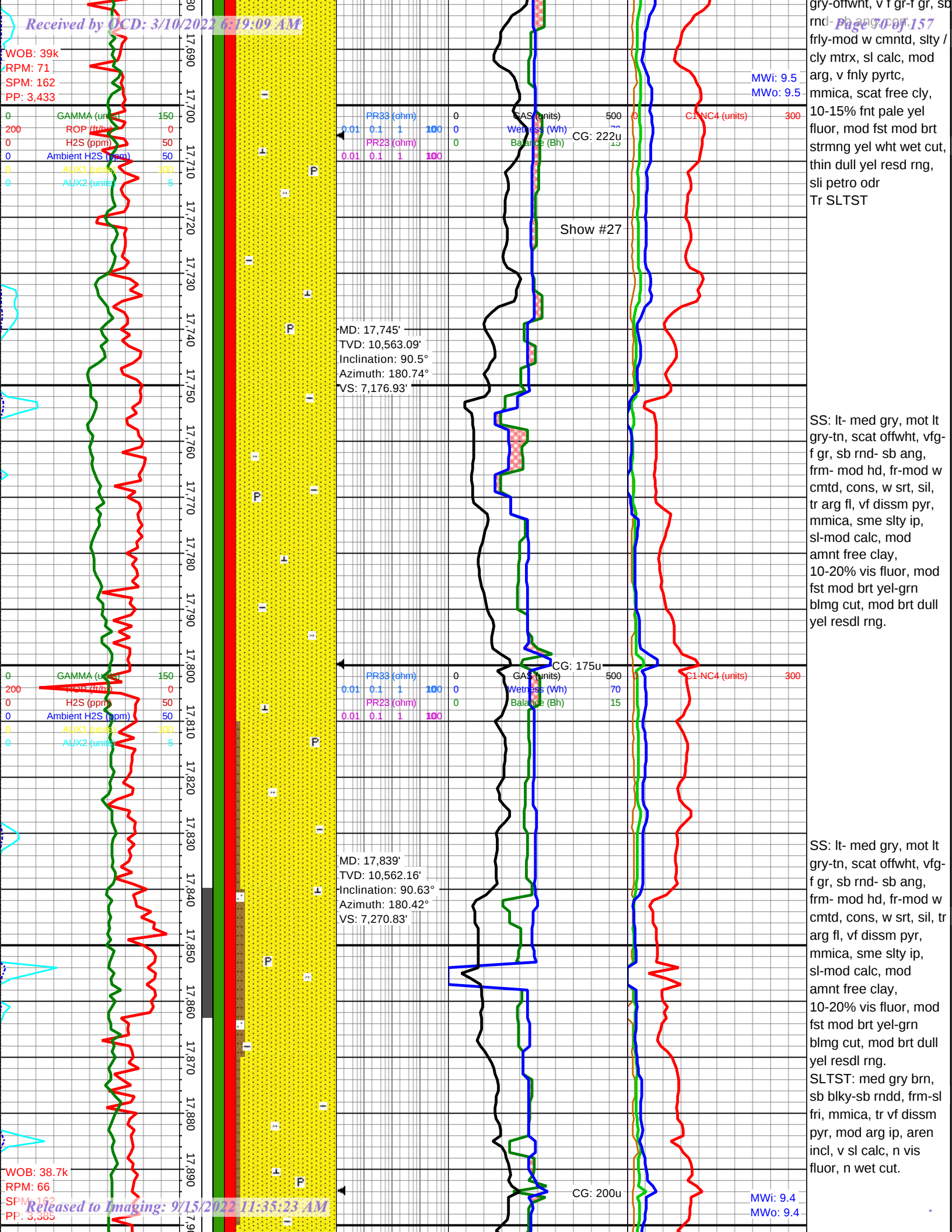
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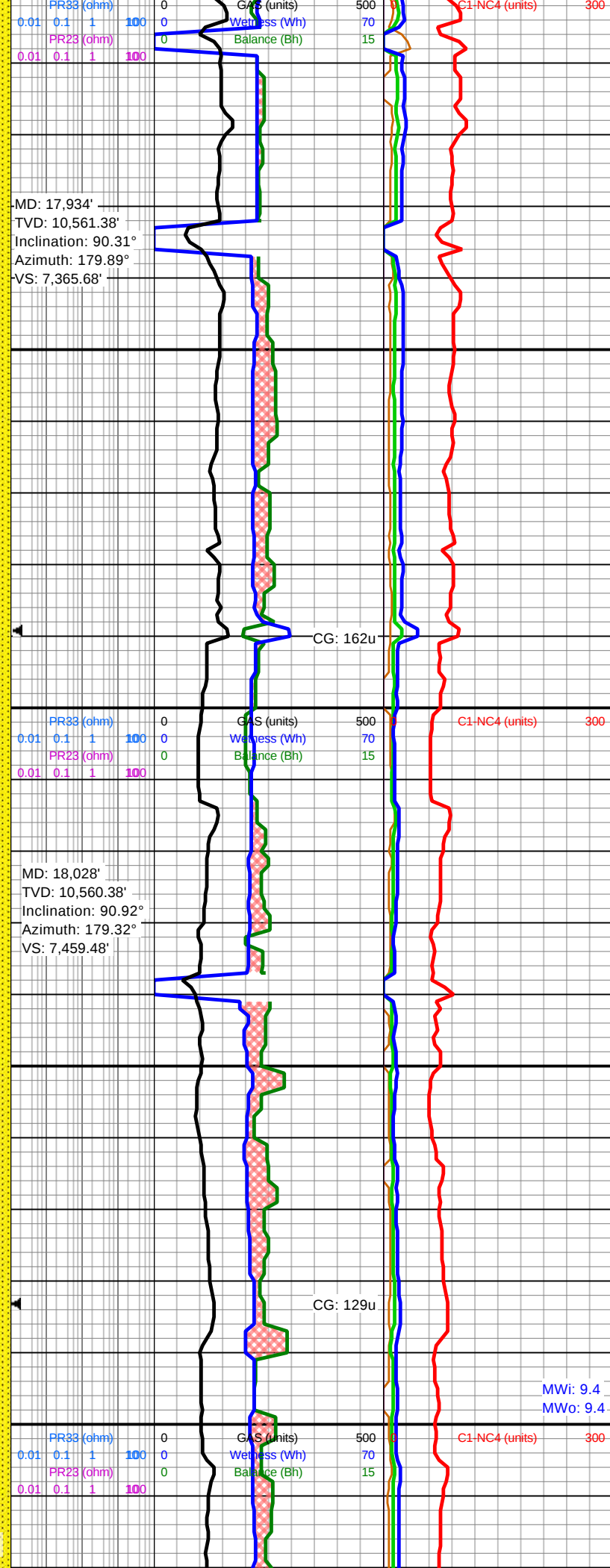
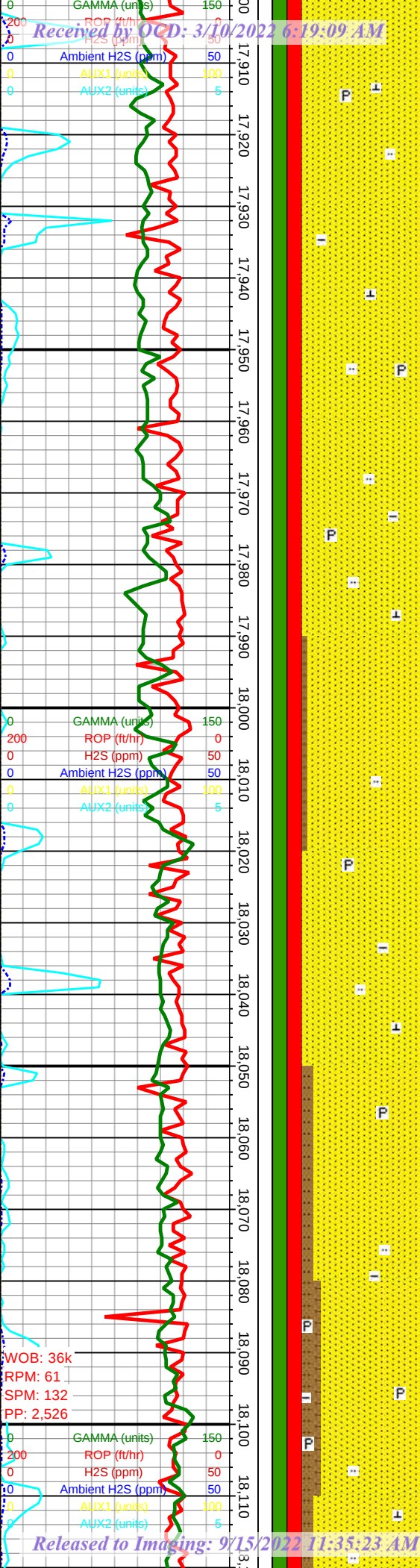
SLTST: brn, sme
gry-brn, sb bly, sb
rdd, frm- mod frm,
sme fri, mmica, tr vf
dissm pyr, mod arg fl,
aren incl, v sl calc, n
vis fluor, n wet cut.

SS: lt gry-offwht, sme
crm-tn, vfg- f gr, sb
rdd- sb ang, frm- mod
hd, sme fri, fr-mod w
cmtd, cons, w srt, sil,
sme arg fl, sme vf
dissm pyr, sl mmica,
mod slty mtrx, sl-mod
calc, abnt free cly,
10-20% vis fluor, mod
fst frly brt yel-wht blmg
cut, thin pale yel resdl
rng.

SS: lt tn, med tn, off
wht, frstd, v/fn - fn gr,
sbrnrd - rdd, lsly
cnsls, frly cmntd, pred
slty / cly mtrx, sm calc
cmnt ip, frly wll srted,
sm mtrx spptd, fria
clstrs, sm arg incls,
10-20% dll yll/wht
fluor, pr slw strrng
yll/wht wet cut, dll thn
spty yll resd rng, sli
petro odr

SS: tn, mot tn-offwhi, lt





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SS: tn, mot tn-wht, tr lt gry-offwht, v f gr-f gr, sb rnd- sb ang, mod cnsl'd, frly cmntd, slty / cly mtrx, sl calc, mod arg, sl pyrtc, mmica, tr free cly, 5-10% dul yel fluor, mod fst mod brt strmgng yel wht wet cut, dull yel-amb resd rng, sli petro odr

SS: tn, mot tn-wht, tr lt gry-offwht, v f gr-f gr, sb rnd- sb ang, mod cnsl'd, frly cmntd, slty / cly mtrx, sl calc, mod arg, sl pyrtc, mmica, tr free cly, 5-10% dul yel fluor, mod fst mod brt strmgng yel wht wet cut, dull yel-amb resd rng, sli petro odr

SS: tn, mot tn-wht, tr lt gry-offwht, v f gr-f gr, sb rnd- sb ang, mod cnsl'd, frly cmntd, slty / cly mtrx, sl calc, mod arg, sl pyrtc, mmica, tr free cly, 5-10% dul yel fluor, mod fst mod brt strmgng yel wht wet cut, dull yel-amb resd rng, sli petro odr

SS: tn, mot tn-wht, tr lt gry-offwht, v f gr-f gr, sb rnd- sb ang, mod cnsl'd, frly cmntd, slty / cly mtrx, sl calc, mod arg, sl pyrtc, mmica, tr free cly, 5-10% dul yel fluor, mod fst mod brt strmgng yel wht wet cut, dull yel-amb resd rng, sli petro odr

MWi: 9.4
MWo: 9.4

SS: tn, mot tn-wht, tr lt
gry-offwht, v f gr-f gr, sb
rnd- sb ang, mod
cnsld, frly cmntd, slty /
cly mtrx, sl calc, mod
arg, sl pyrtc, mmica, tr
free cly, 5-10% dul yel
fluor, mod fst mod brt
strmgng yel wht wet cut,
dull yel-amb resd rng,
sli petro odr
SLTST: med brn,
sbbkly-sbrndd, vf-u f
gr, sft-frm, arg fl, aren
incl, vf dissim pyr, v sl
calc, n vis fluor, tr fnt
yel wht stmg cut, v fnt
dull yel rng

MWi: 9.5
MWo: 9.5

TD OF 18,250' MD
REACHED 19:32 HOURS
9/28/2021. CIRCULATE 2X
BOTTOMS UP, SEND LOW
VIS & HIG VIS SWEEPS,
TOOH.

0	GAMMA (units)	150
200	ROP (ft/hr)	0
0	H2S (ppm)	50
0	Ambient H2S (ppm)	50
0	AUX1 (units)	100
0	AUX2 (units)	5

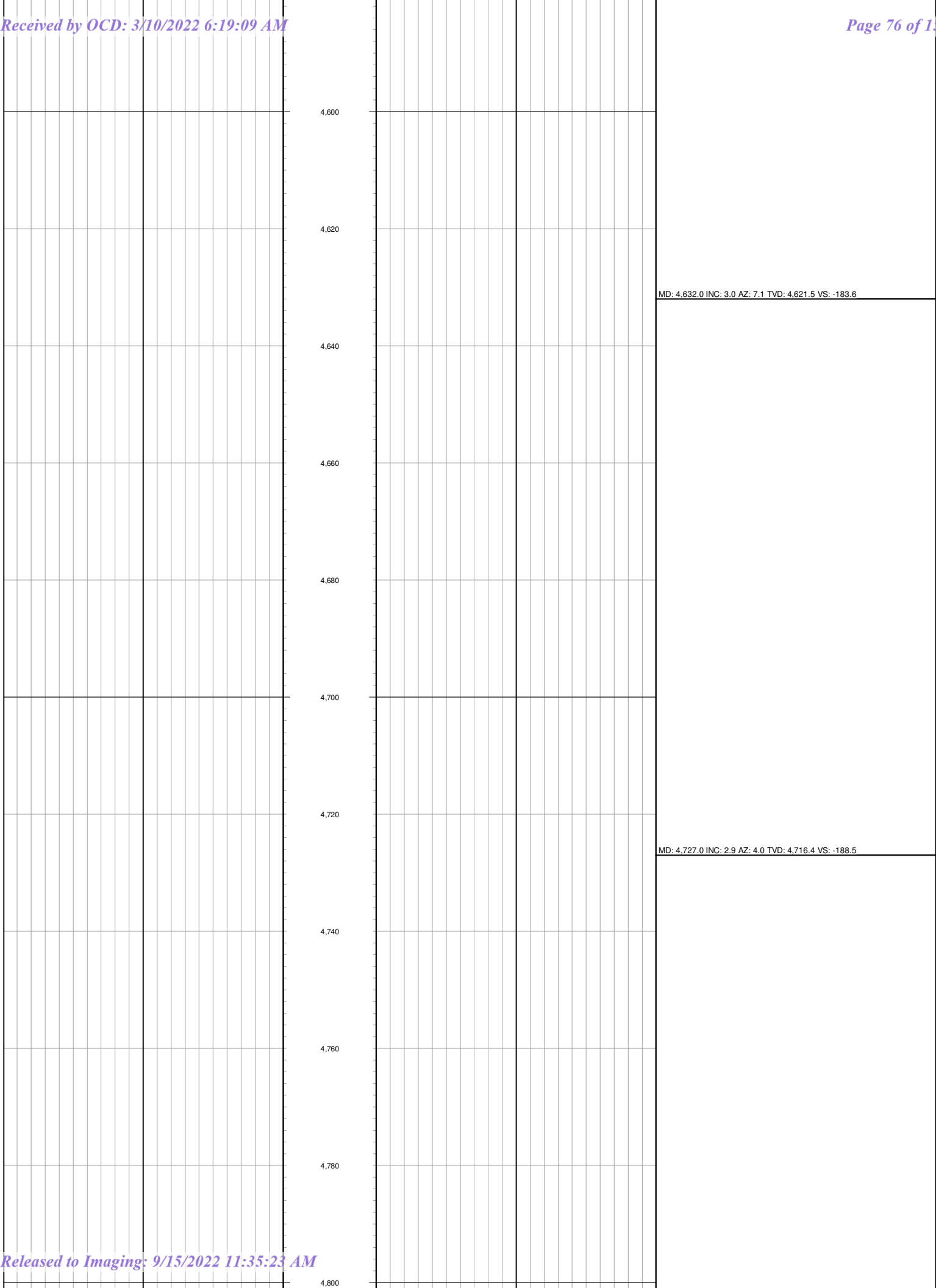
GAS (units)	50
Wetness (Wh)	7
Balance (Bh)	1

C1-NC4 (units)	300
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Received by OCD: 3/10/2022 6:19:09 AM										Page 73 of 157																			
ROP/Gamma/WOB										Chromatography										Lithology Descriptions									
GAMMA										C1																			
0 units 150										0 units 300																			
ROP										C2																			
200 ft/hr 0										0 units 300																			
H2S										C3																			
0 ppm 50										0 units 300																			
Ambient H2S										IC4																			
0 ppm 50										0 units 300																			
AUX1										NC4																			
AUX2										0 units 300																			

MD: 4,443.0 INC: 3.7 AZ: 11.7 TVD: 4,432.8 VS: -172.7

MD: 4,538.0 INC: 3.3 AZ: 8.6 TVD: 4,527.6 VS: -178.5



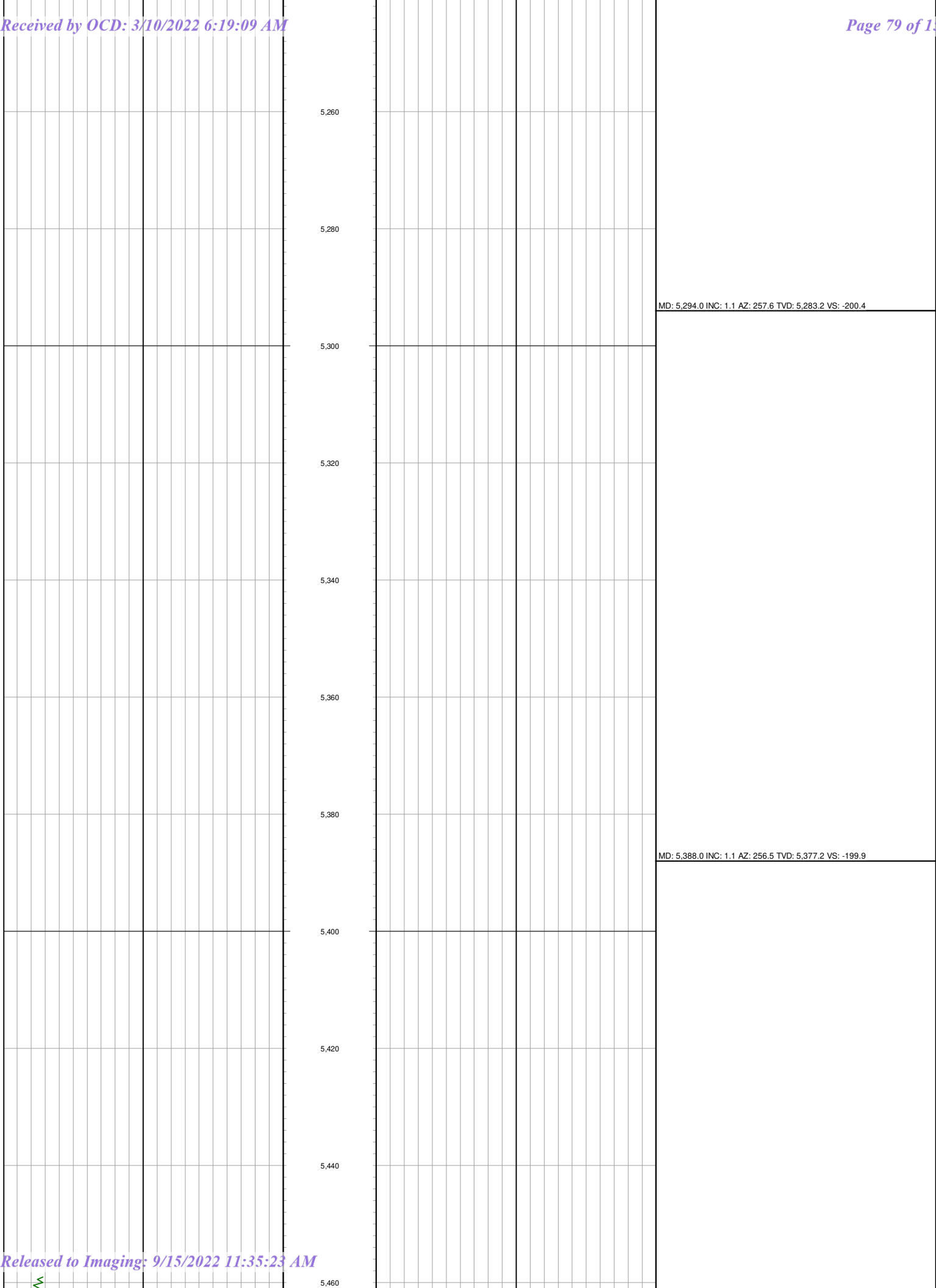
MD: 4,821.0 INC: 1.9 AZ: 356.3 TVD: 4,810.3 VS: -192.4

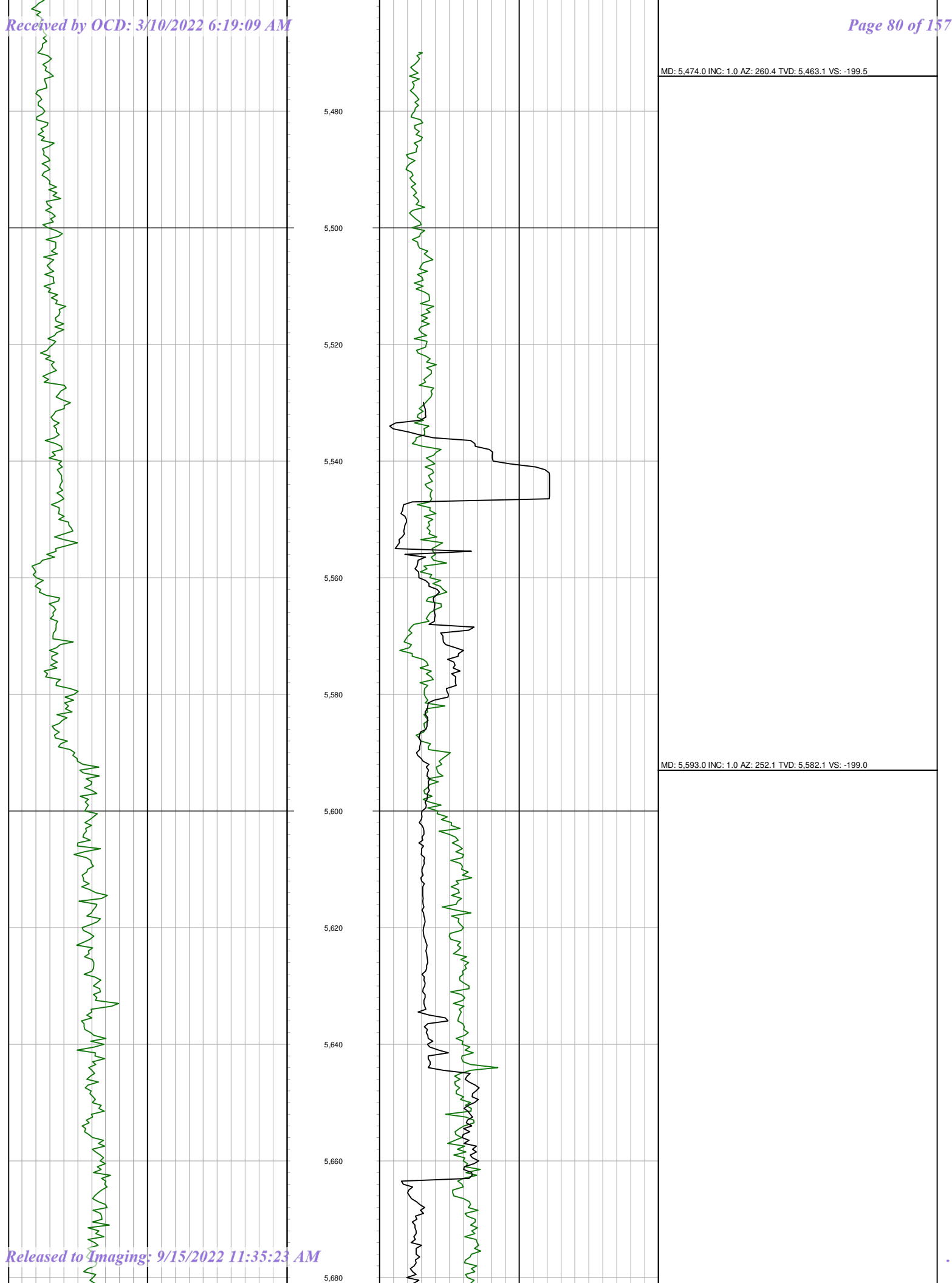
MD: 4,916.0 INC: 1.5 AZ: 353.9 TVD: 4,905.2 VS: -195.1

MD: 5.010.0 INC: 1.1 AZ: 346.2 TVD: 4.999.2 VS: -197.2

MD: 5,105.0 INC: 0.9 AZ: 335.4 TVD: 5,094.2 VS: -198.7

MD: 5,199.0 INC: 0.9 AZ: 332.5 TVD: 5,188.2 VS: -200.0





MD: 5,688.0 INC: 3.3 AZ: 266.6 TVD: 5,677.1 VS: -198.4

5,700

5,720

5,740

5,760

5,780

5,800

5,820

5,840

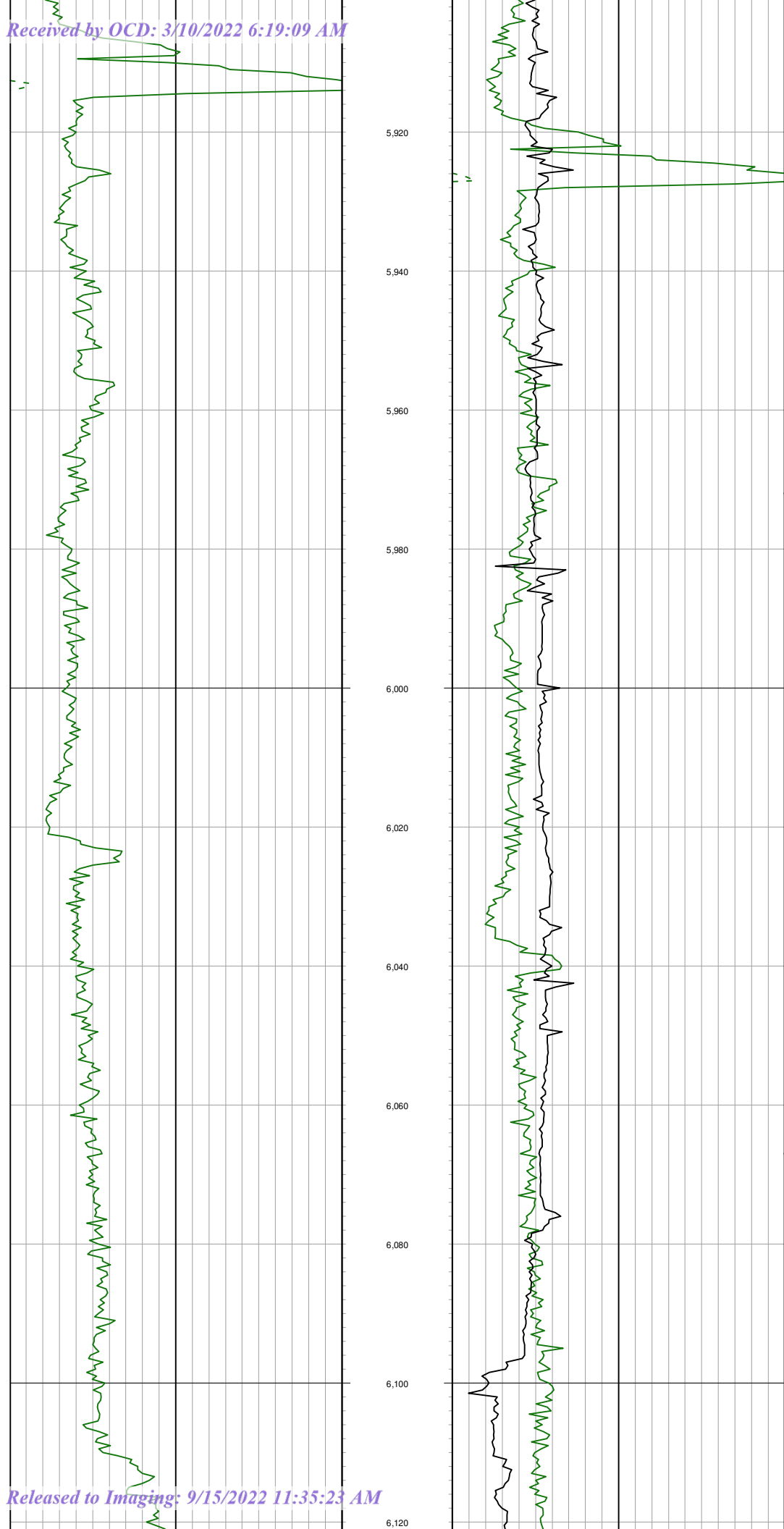
5,860

5,880

5,900

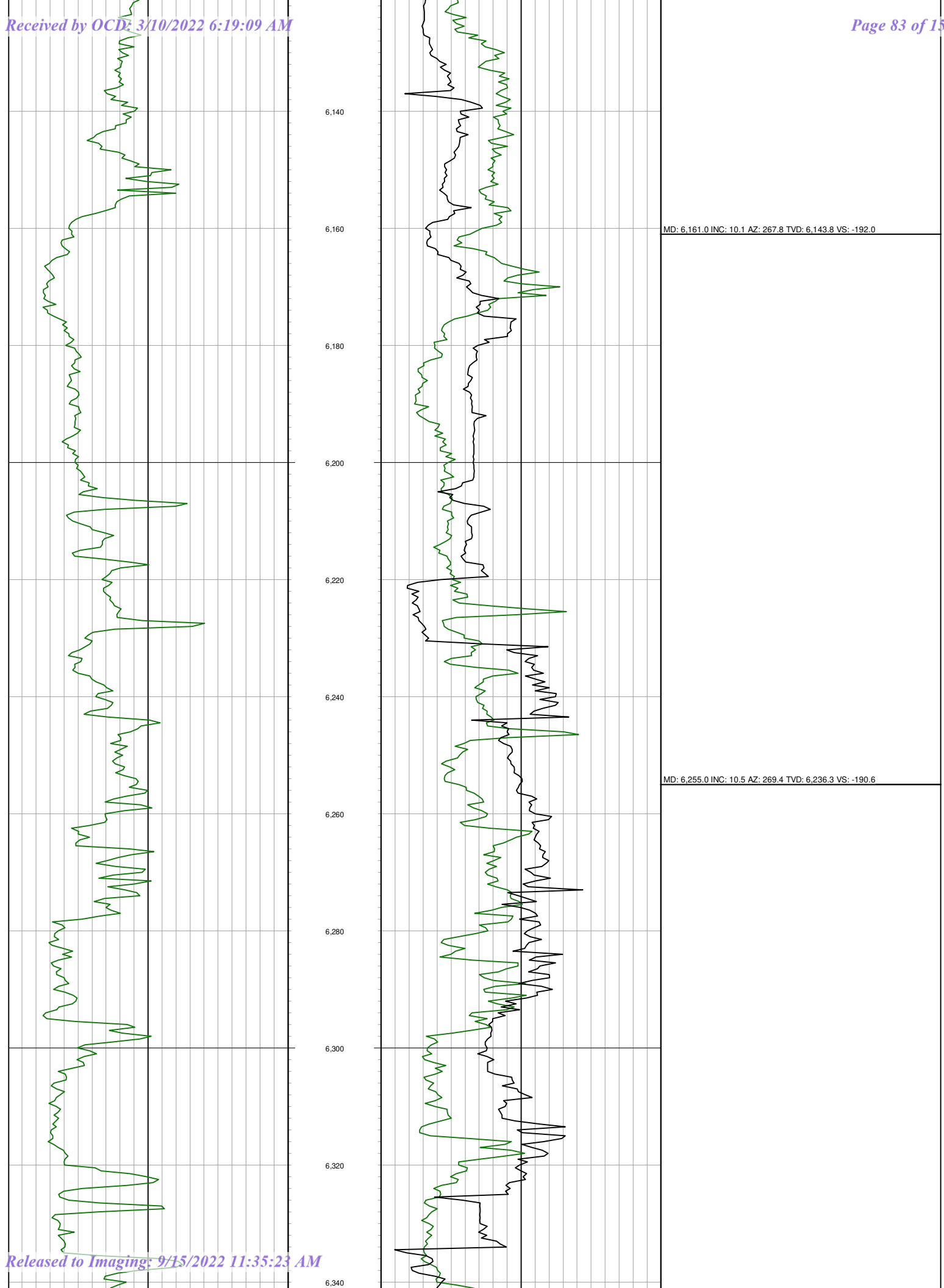
MD: 5,783.0 INC: 7.1 AZ: 268.2 TVD: 5,771.7 VS: -197.5

MD: 5,877.0 INC: 10.1 AZ: 268.6 TVD: 5,864.6 VS: -196.3



MD: 5,972.0 INC: 11.0 AZ: 268.8 TVD: 5,958.0 VS: -195.0

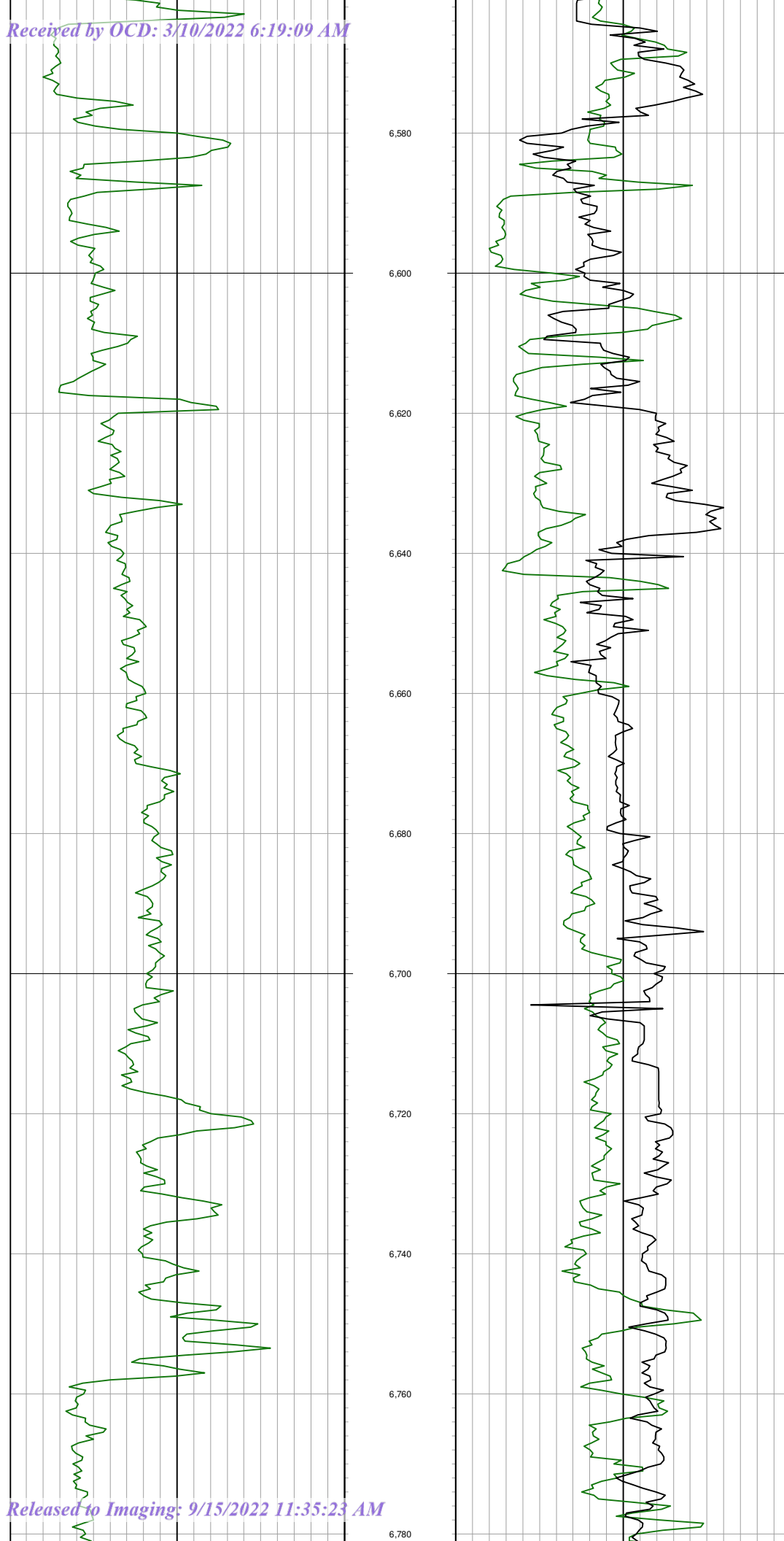
MD: 6,067.0 INC: 10.6 AZ: 268.3 TVD: 6,051.3 VS: -193.5



MD: 6,350.0 INC: 10.5 AZ: 265.7 TVD: 6,329.7 VS: -188.8

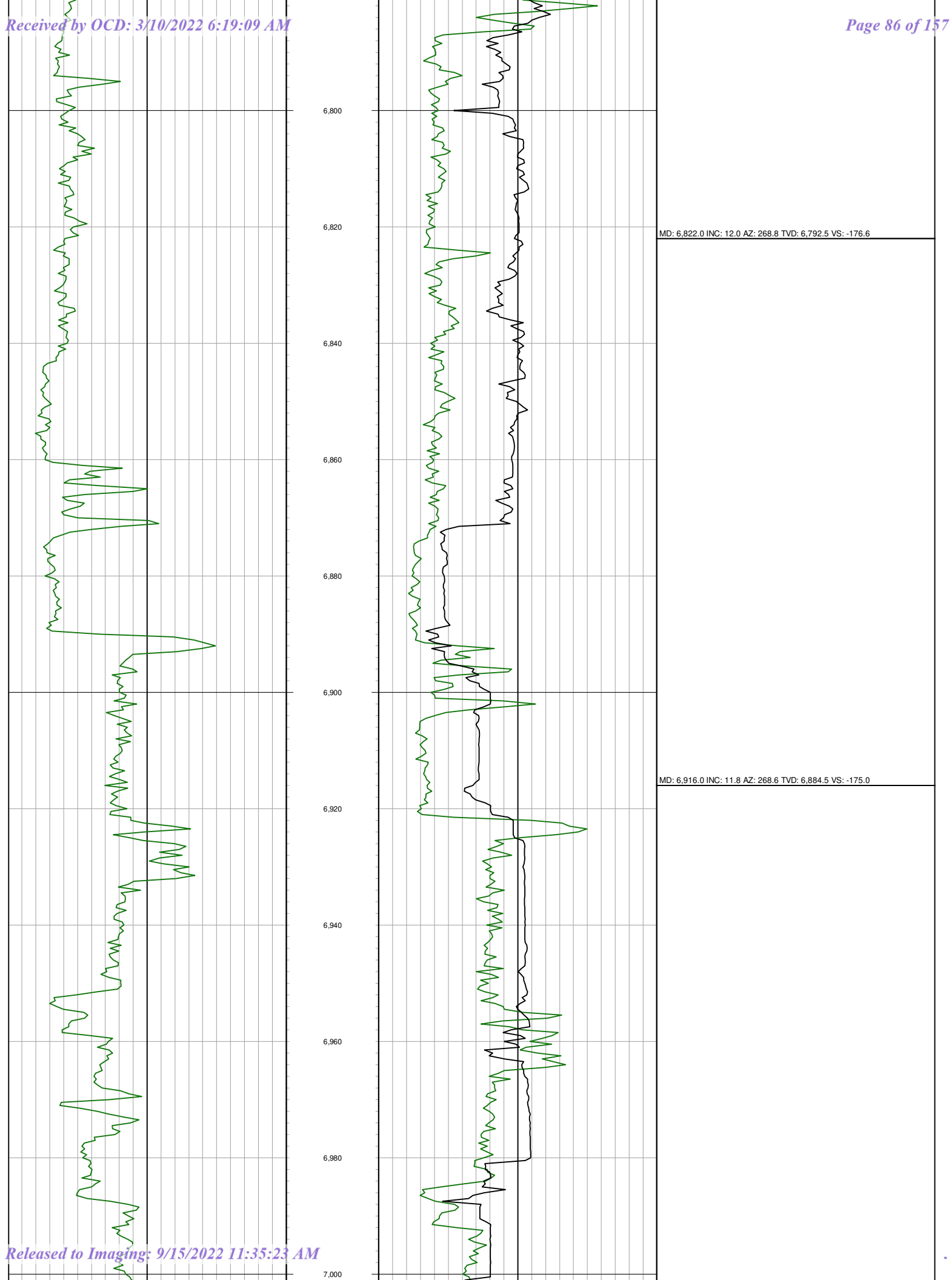
MD: 6,444.0 INC: 10.2 AZ: 260.6 TVD: 6,422.2 VS: -185.9

MD: 6,539.0 INC: 10.9 AZ: 263.0 TVD: 6,515.5 VS: -182.4



MD: 6.633.0 INC: 12.0 AZ: 268.0 TVD: 6.607.7 VS: -180.0

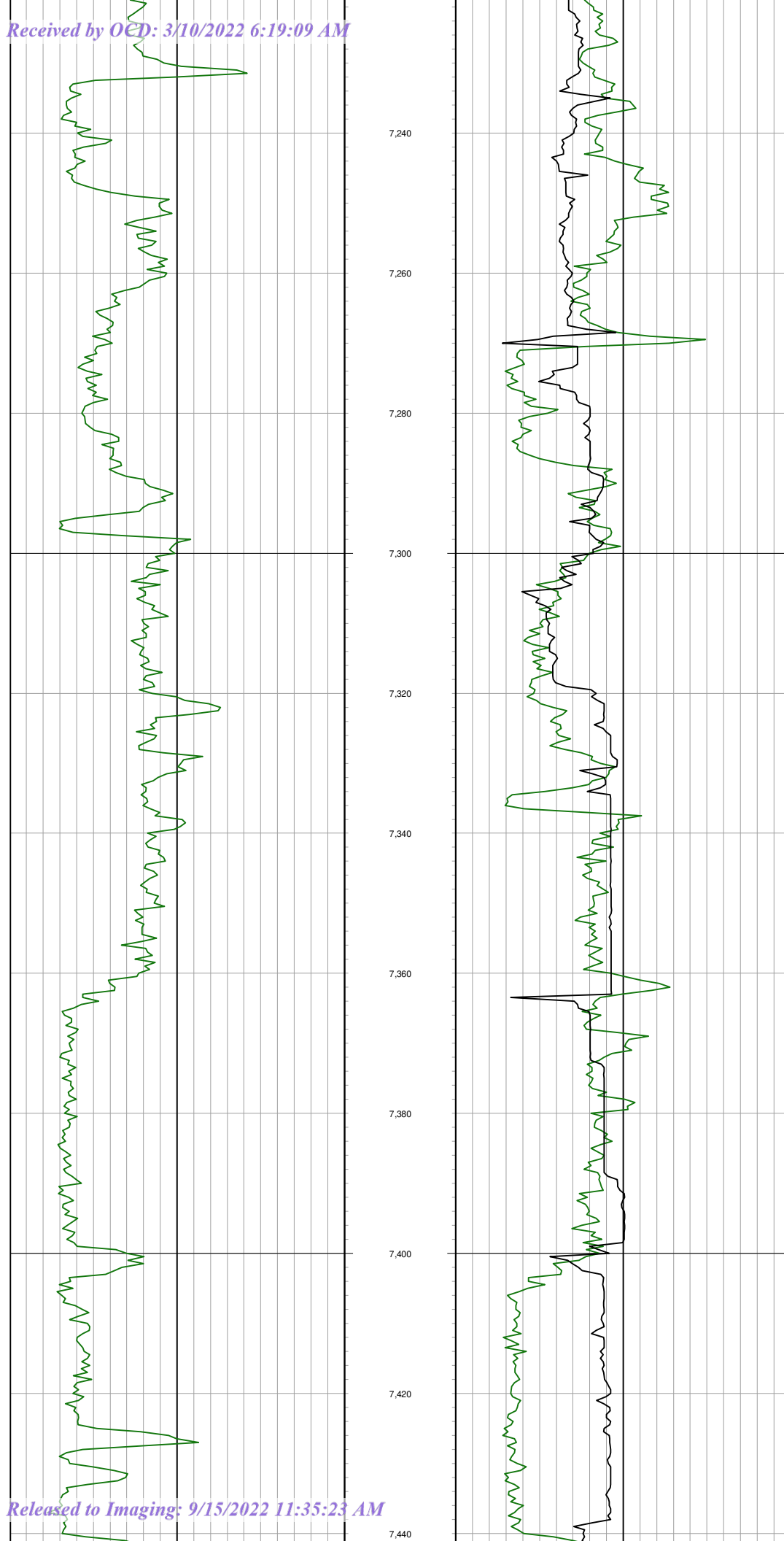
MD: 6.727.0 INC: 12.0 AZ: 268.3 TVD: 6.699.6 VS: -178.2



MD: 7,010.0 INC: 11.6 AZ: 268.8 TVD: 6,976.6 VS: -173.5

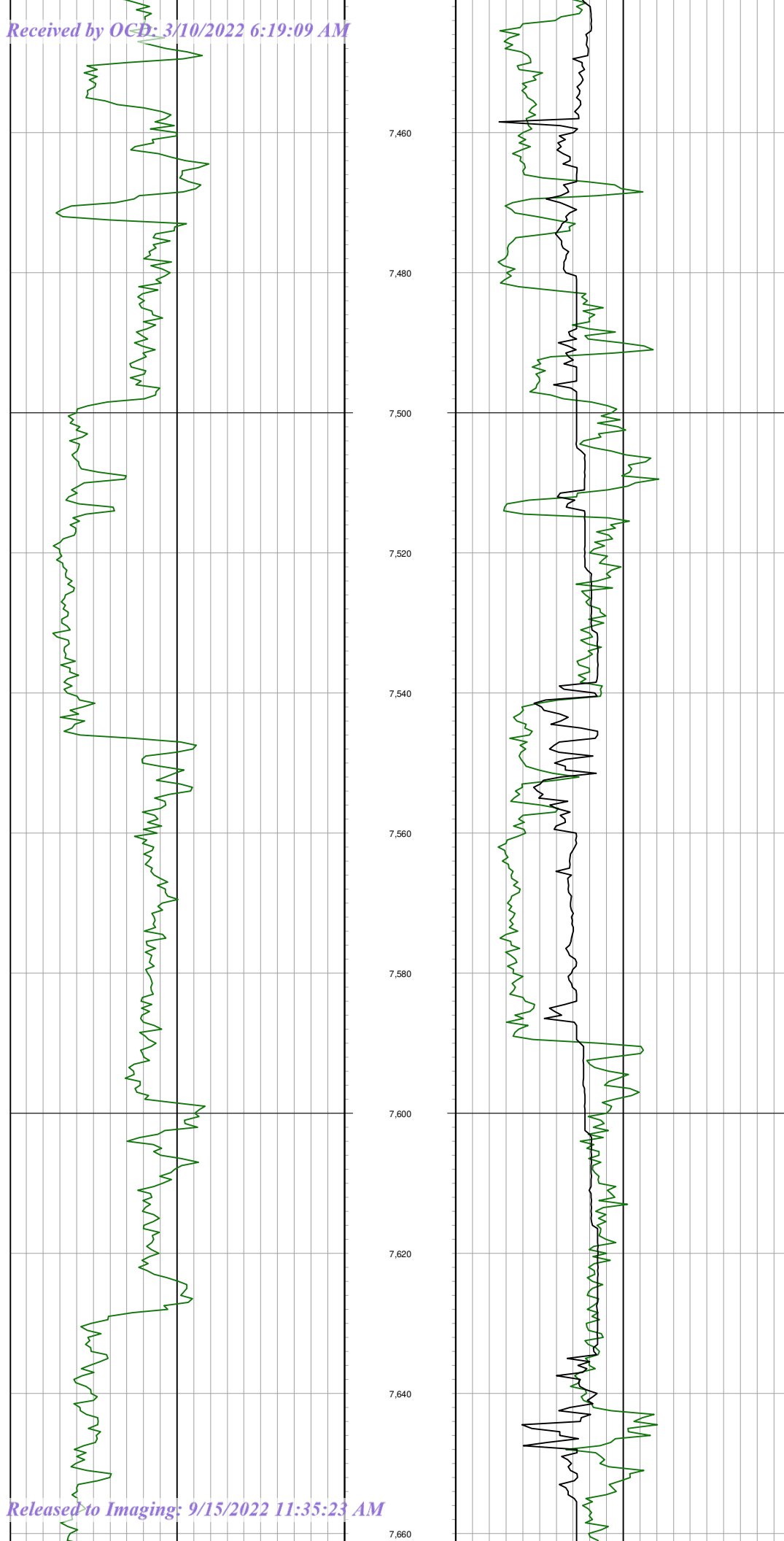
MD: 7,105.0 INC: 11.2 AZ: 270.3 TVD: 7,069.7 VS: -172.3

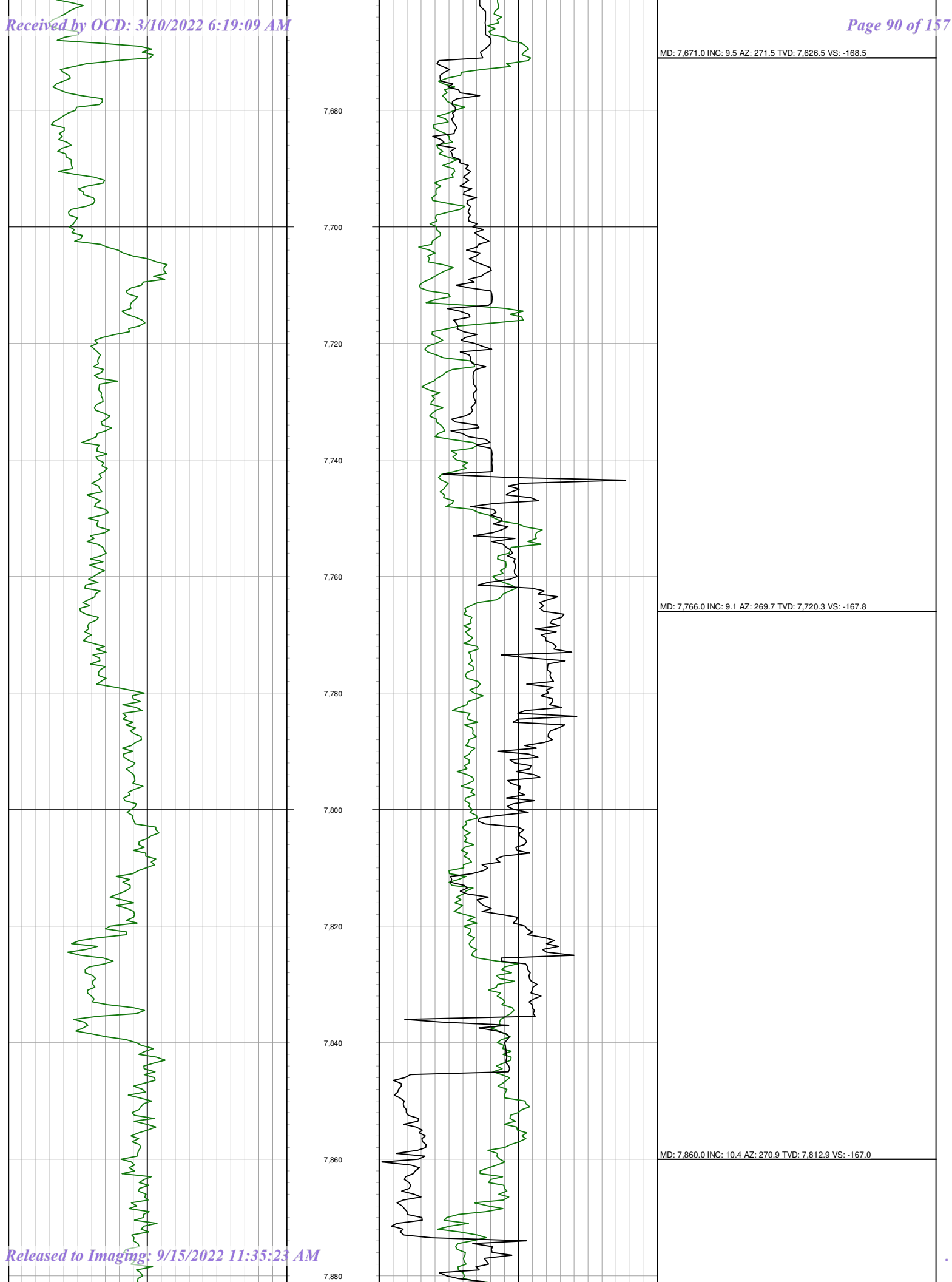
MD: 7,199.0 INC: 10.9 AZ: 270.9 TVD: 7,162.0 VS: -171.4

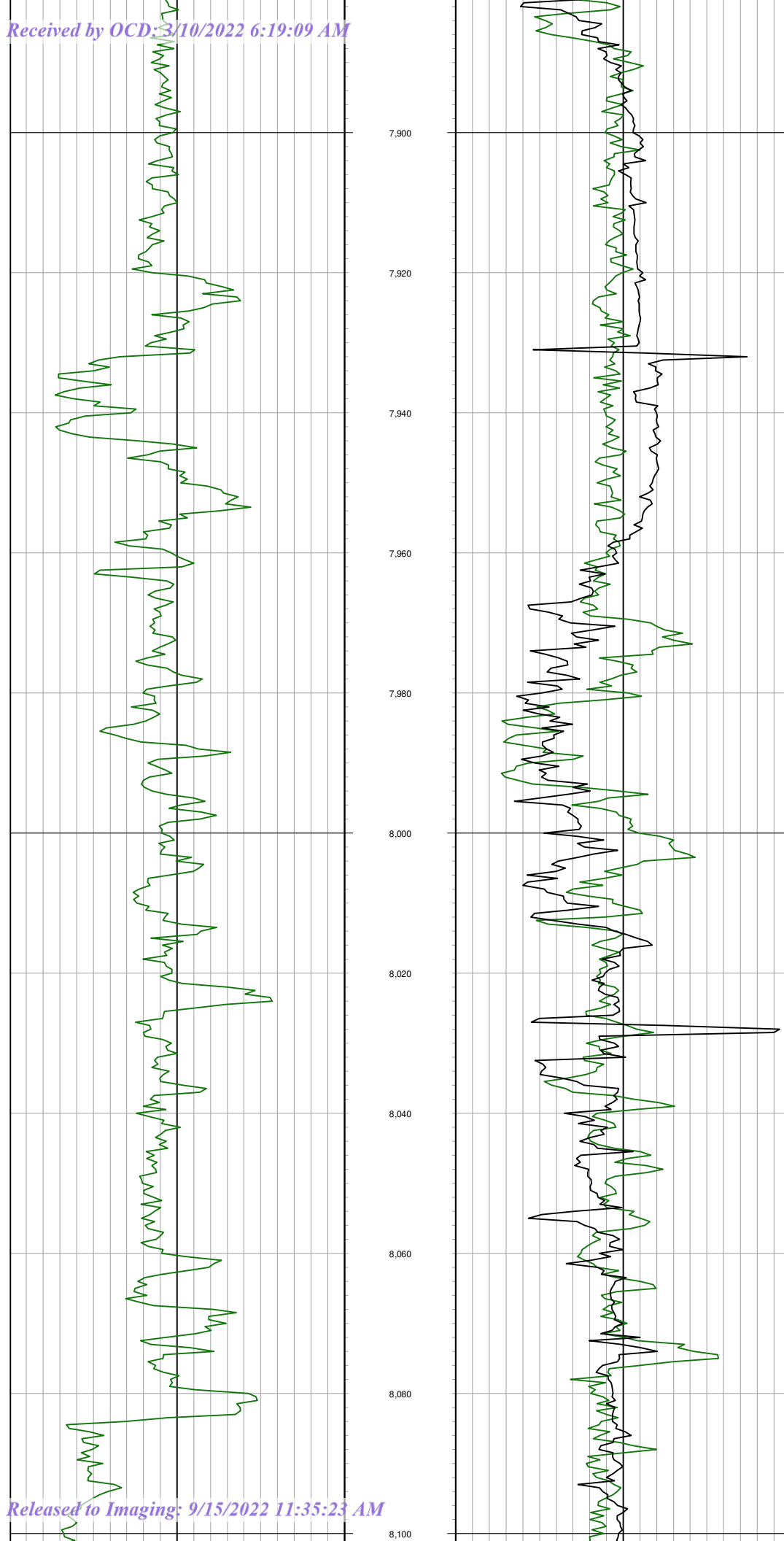


MD: 7,293.0 INC: 10.6 AZ: 271.5 TVD: 7,254.3 VS: -170.8

MD: 7,388.0 INC: 10.3 AZ: 271.5 TVD: 7,347.8 VS: -170.3

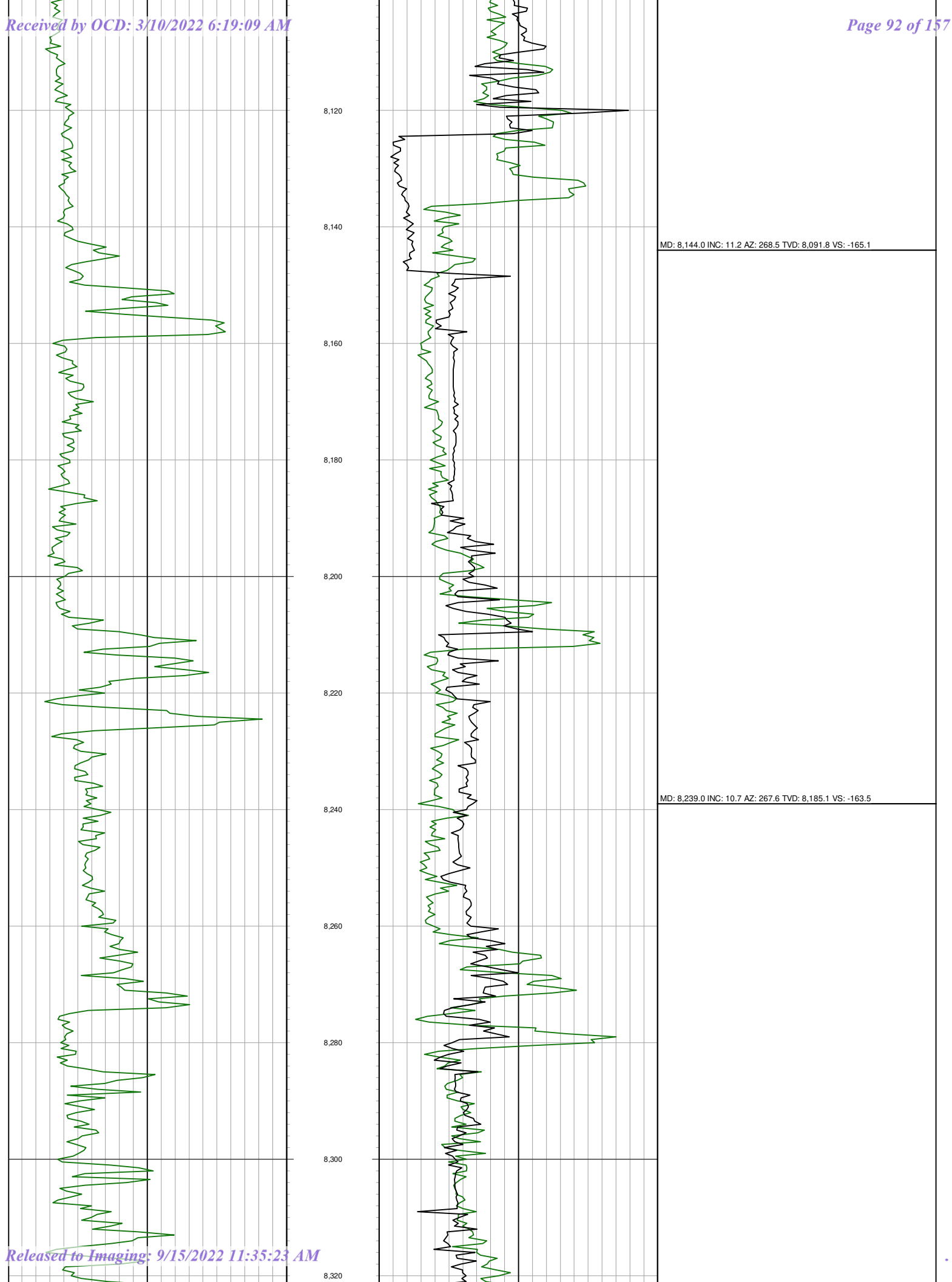


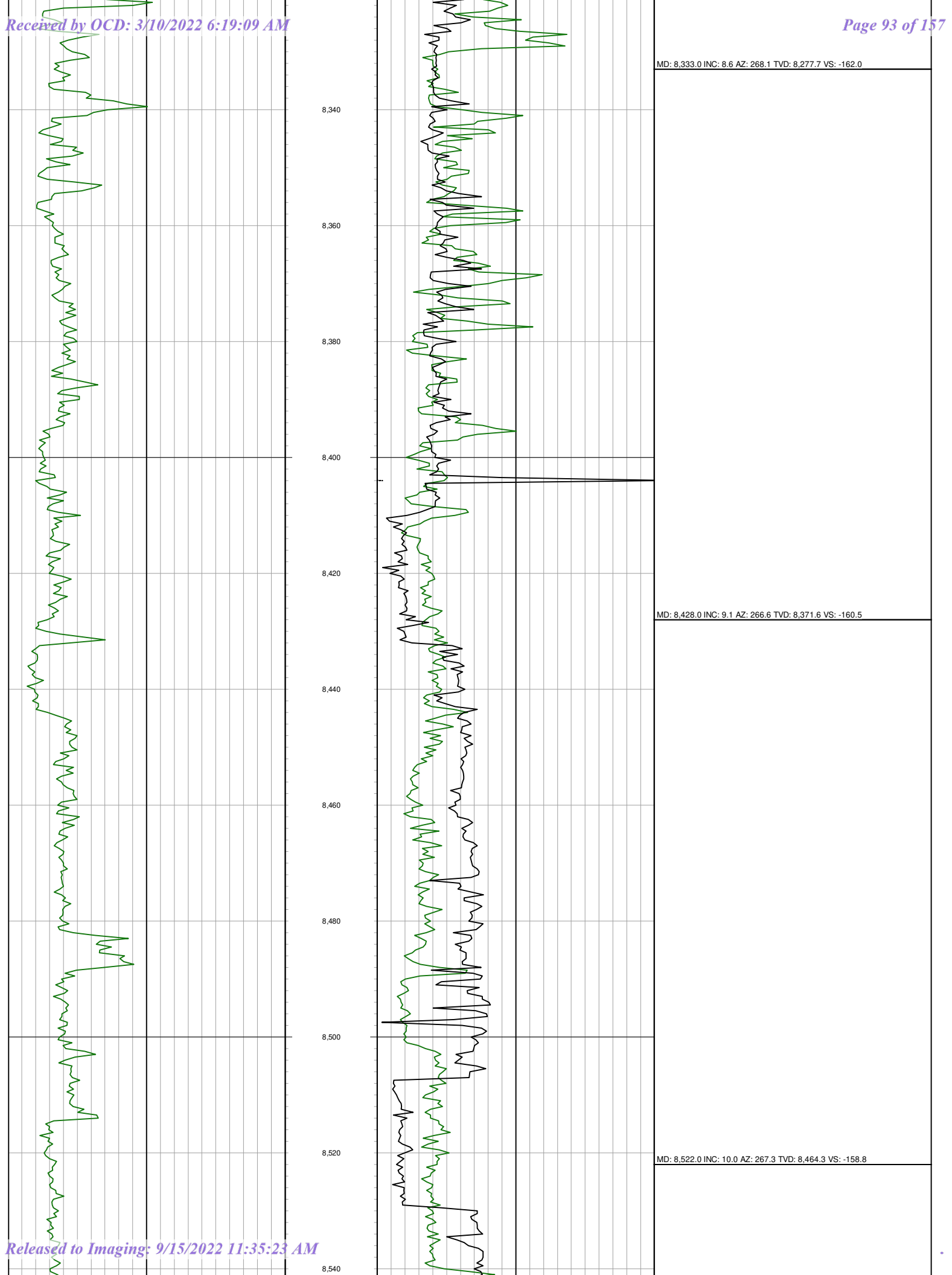


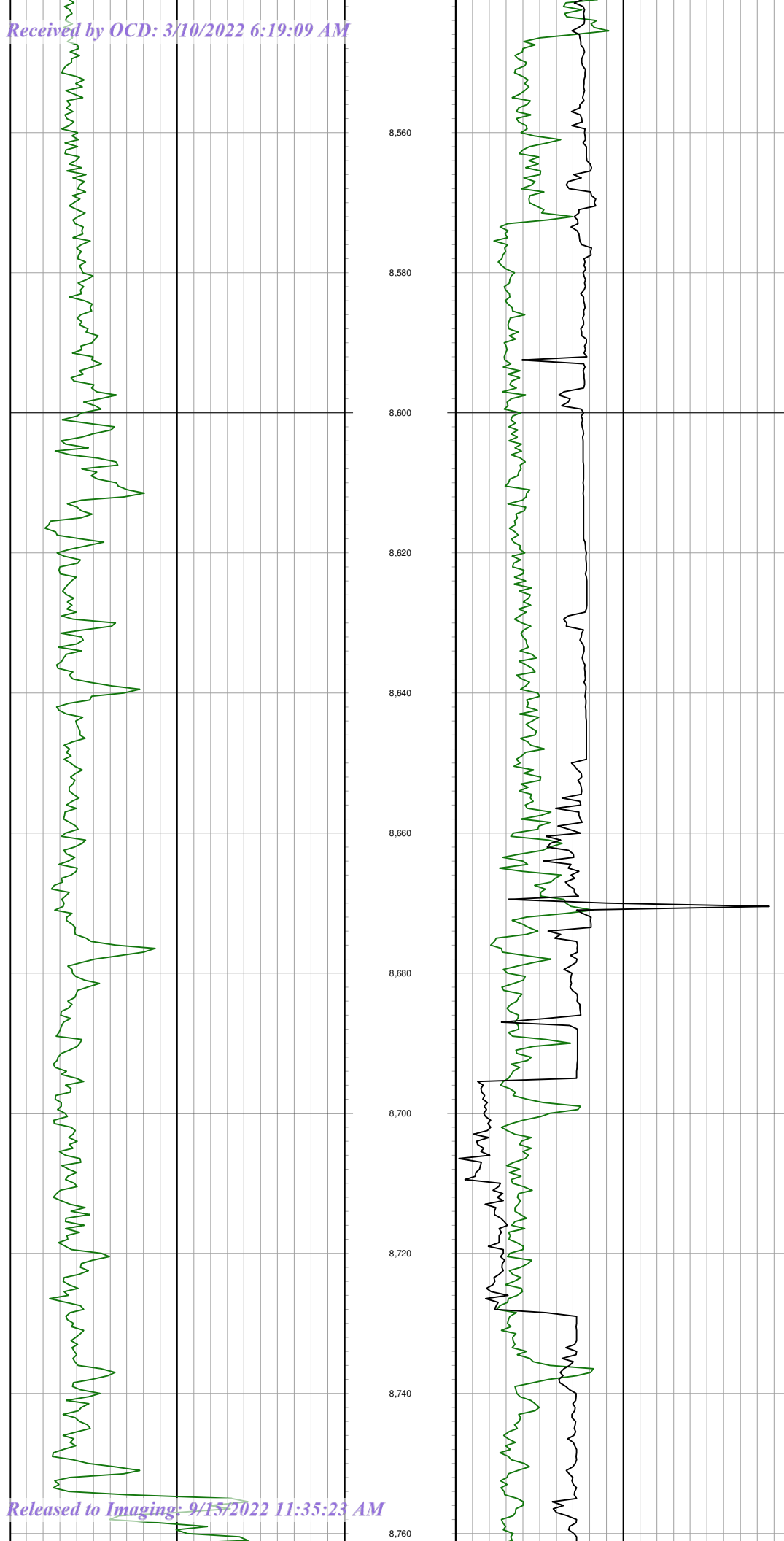


MD: 7,955.0 INC: 11.6 AZ: 272.3 TVD: 7,906.2 VS: -166.4

MD: 8,049.0 INC: 10.3 AZ: 272.1 TVD: 7,998.5 VS: -166.1

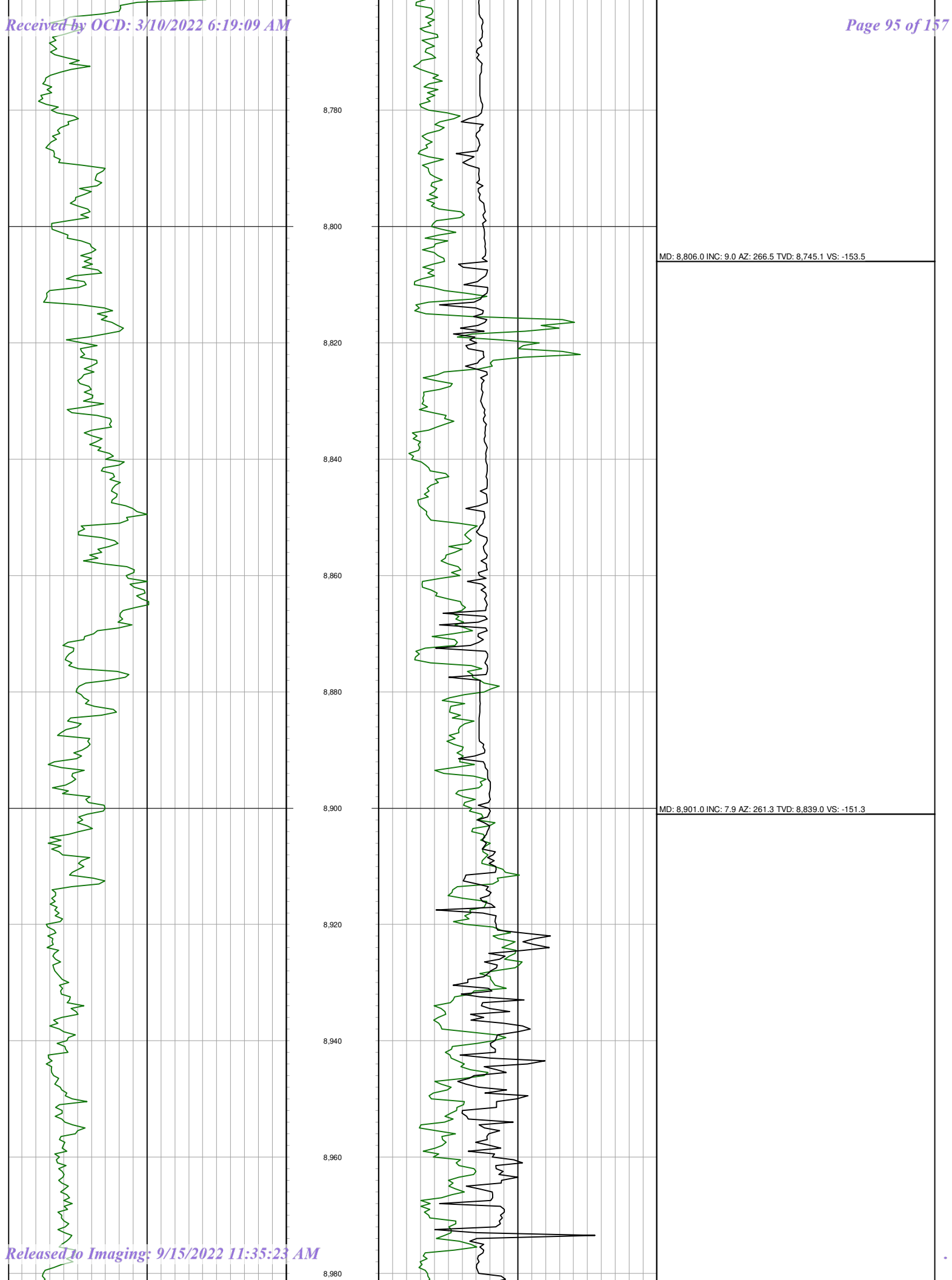


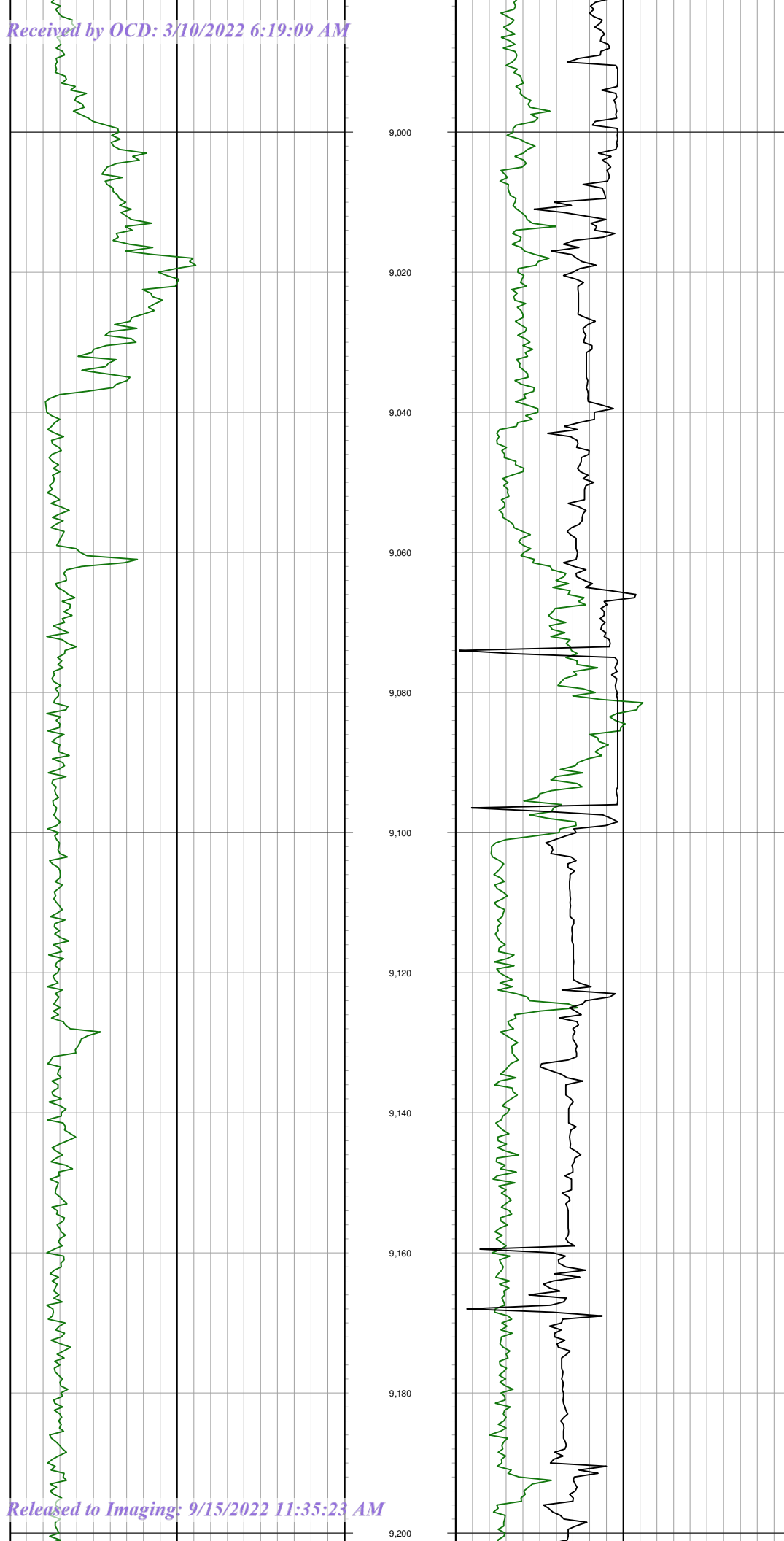




MD: 8,617.0 INC: 8.3 AZ: 265.9 TVD: 8,558.1 VS: -157.0

MD: 8,712.0 INC: 8.1 AZ: 265.8 TVD: 8,652.1 VS: -155.3

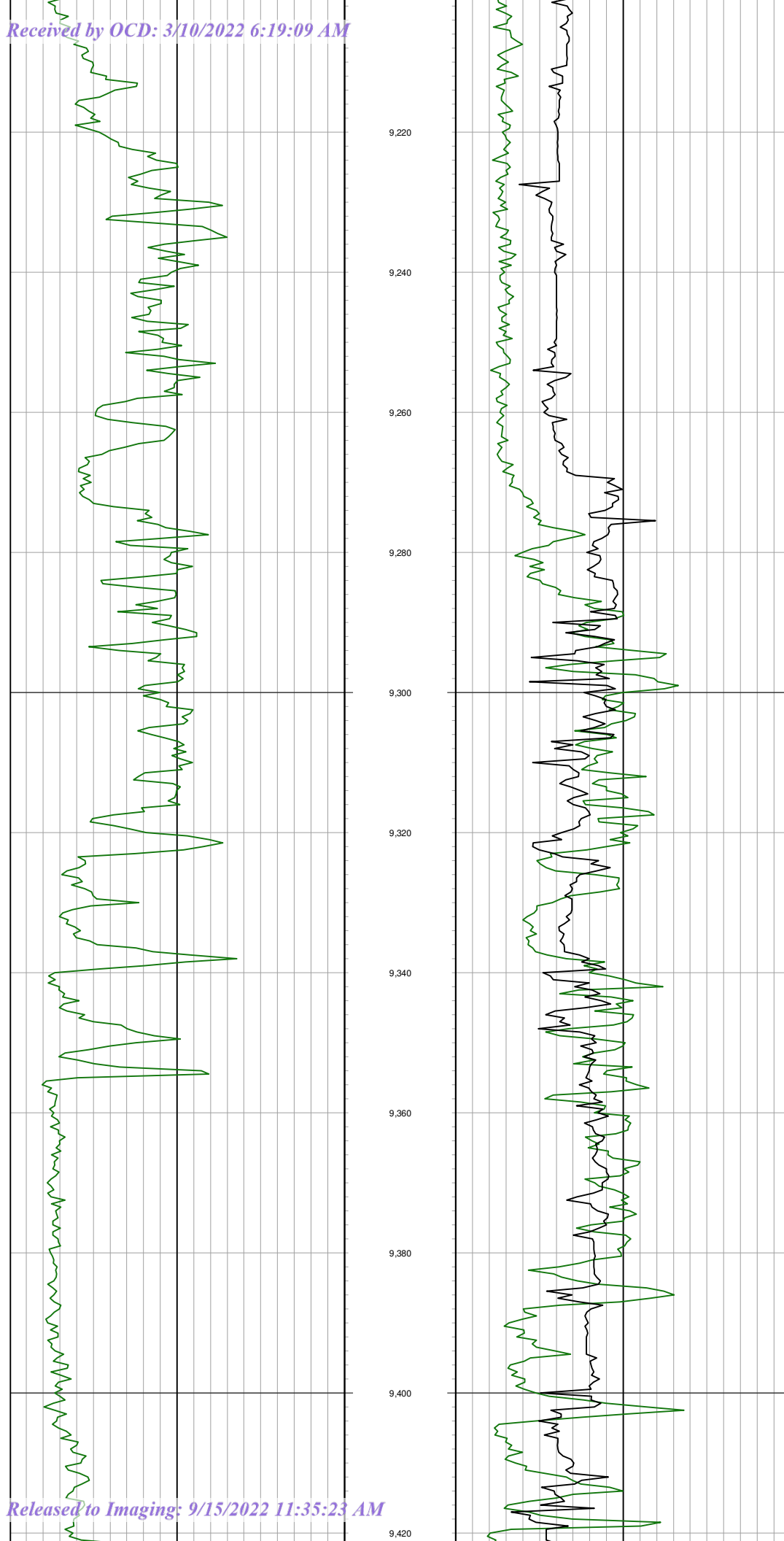




MD: 8,995.0 INC: 7.6 AZ: 258.2 TVD: 8,932.2 VS: -148.4

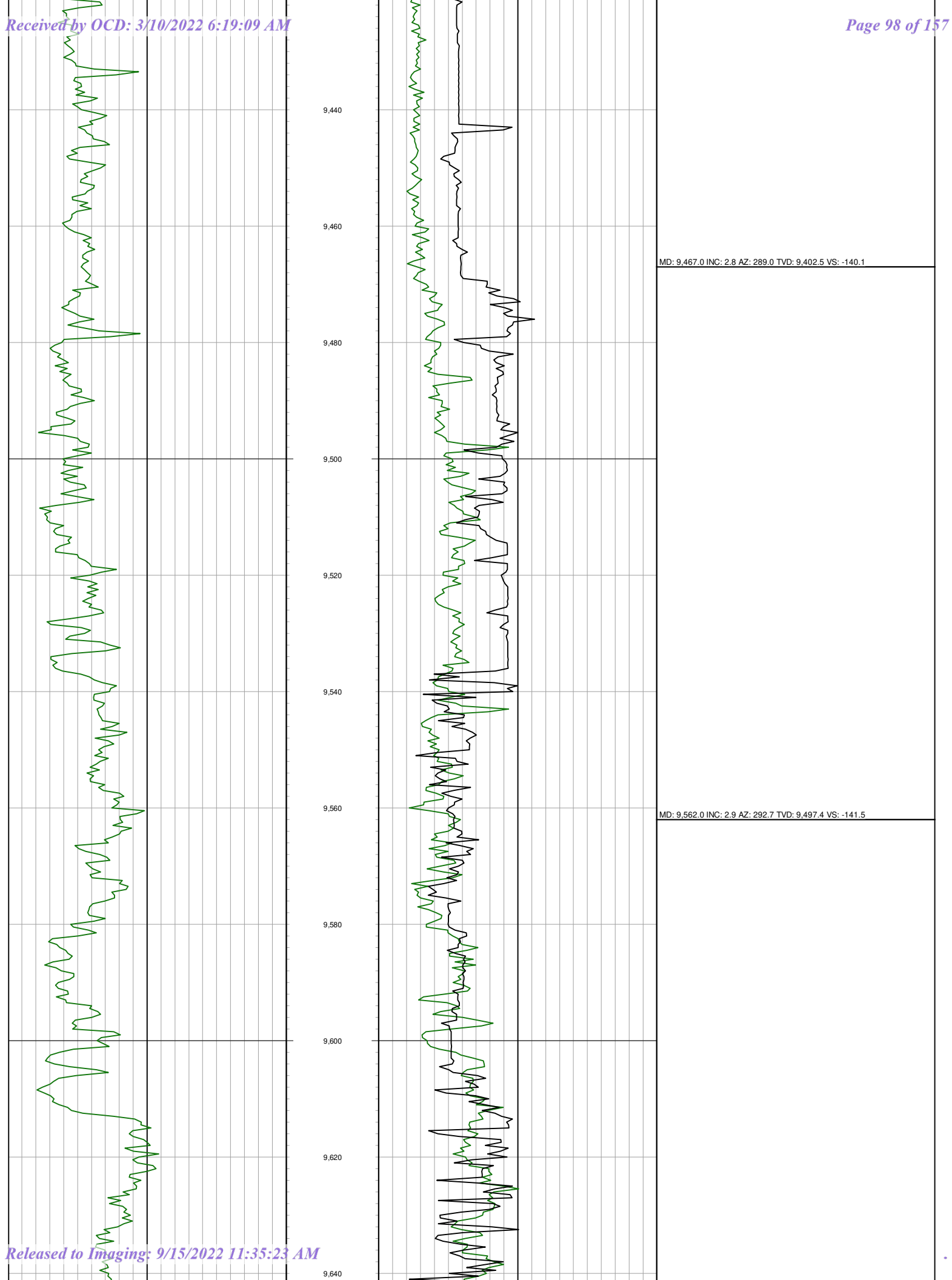
MD: 9,089.0 INC: 6.1 AZ: 259.4 TVD: 9,025.5 VS: -145.5

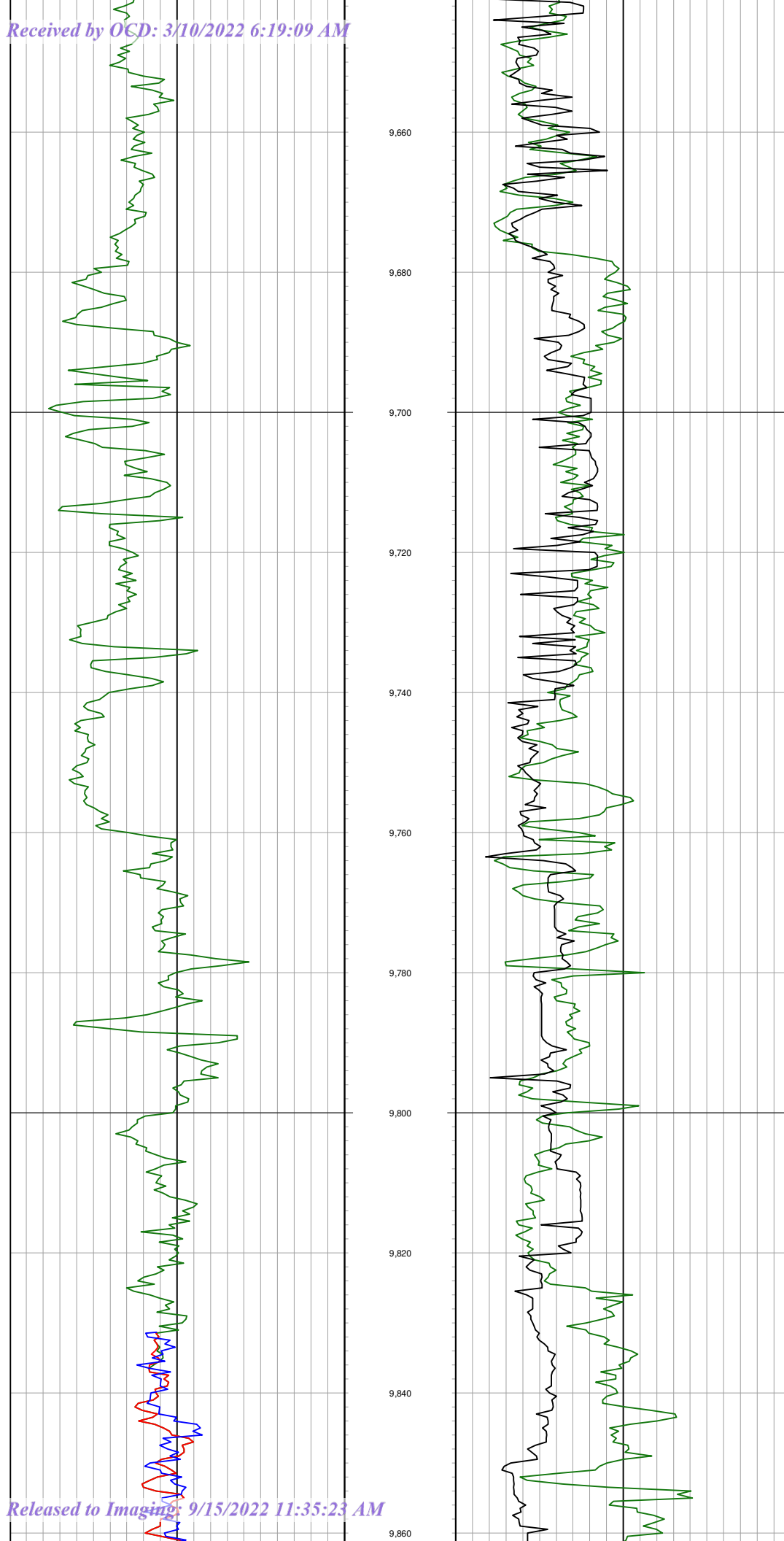
MD: 9,184.0 INC: 4.8 AZ: 257.1 TVD: 9,120.1 VS: -143.2



MD: 9,278.0 INC: 4.0 AZ: 255.5 TVD: 9,213.8 VS: -141.1

MD: 9,373.0 INC: 2.8 AZ: 265.8 TVD: 9,308.6 VS: -139.8

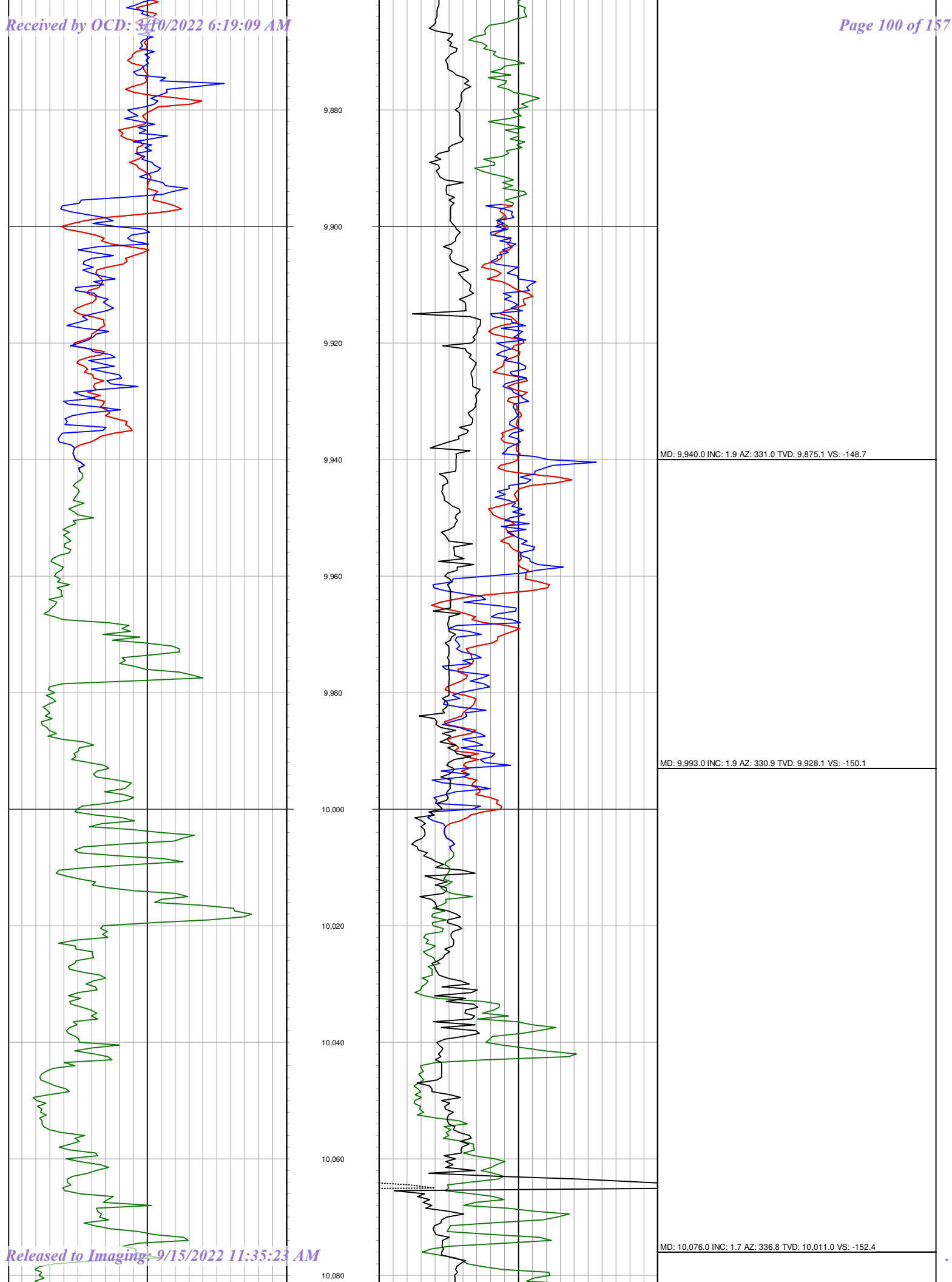


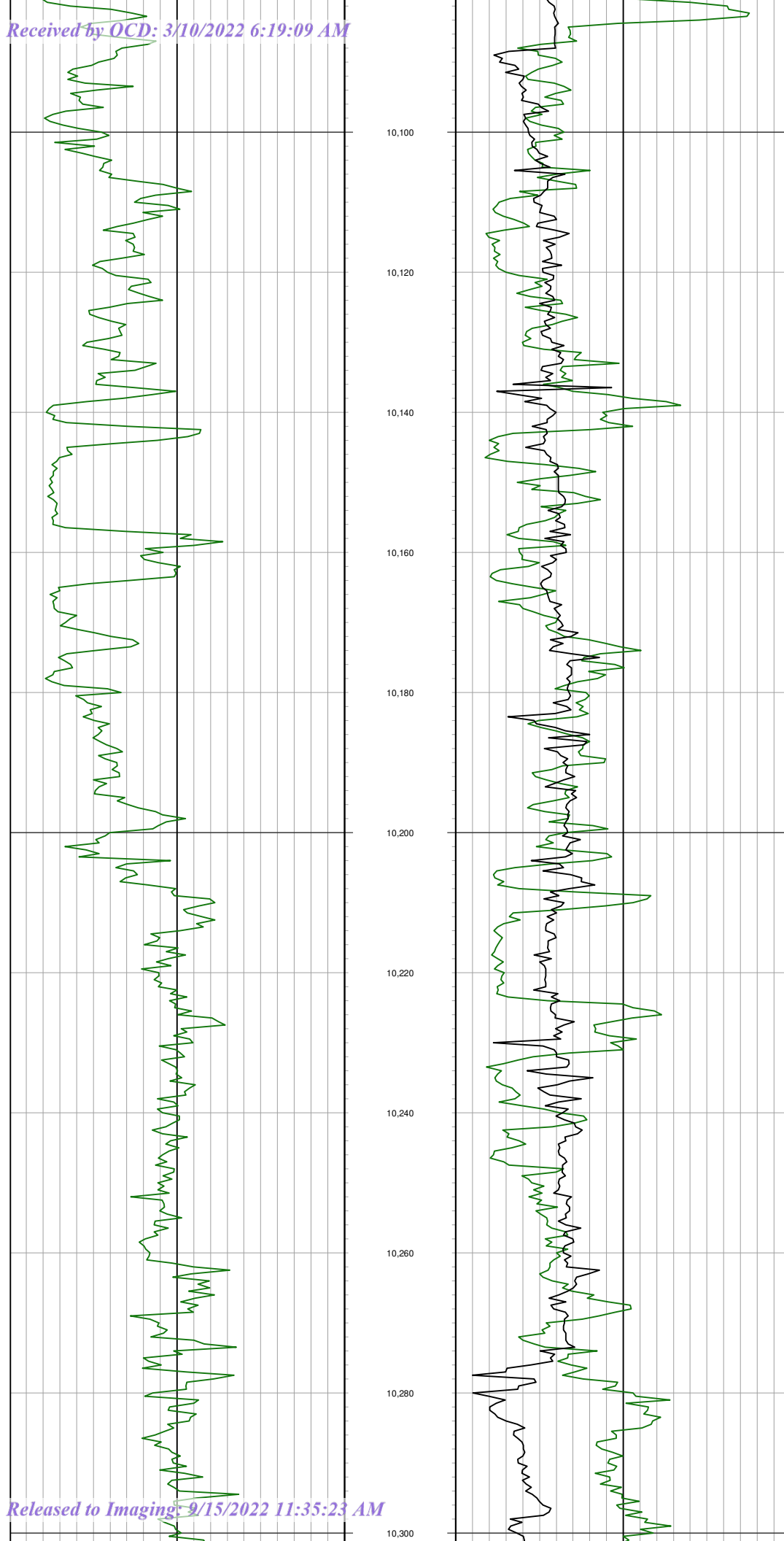


MD: 9,656.0 INC: 2.9 AZ: 296.4 TVD: 9,591.3 VS: -143.3

MD: 9,751.0 INC: 2.4 AZ: 299.8 TVD: 9,686.2 VS: -145.1

MD: 9,845.0 INC: 1.5 AZ: 308.5 TVD: 9,780.1 VS: -146.7



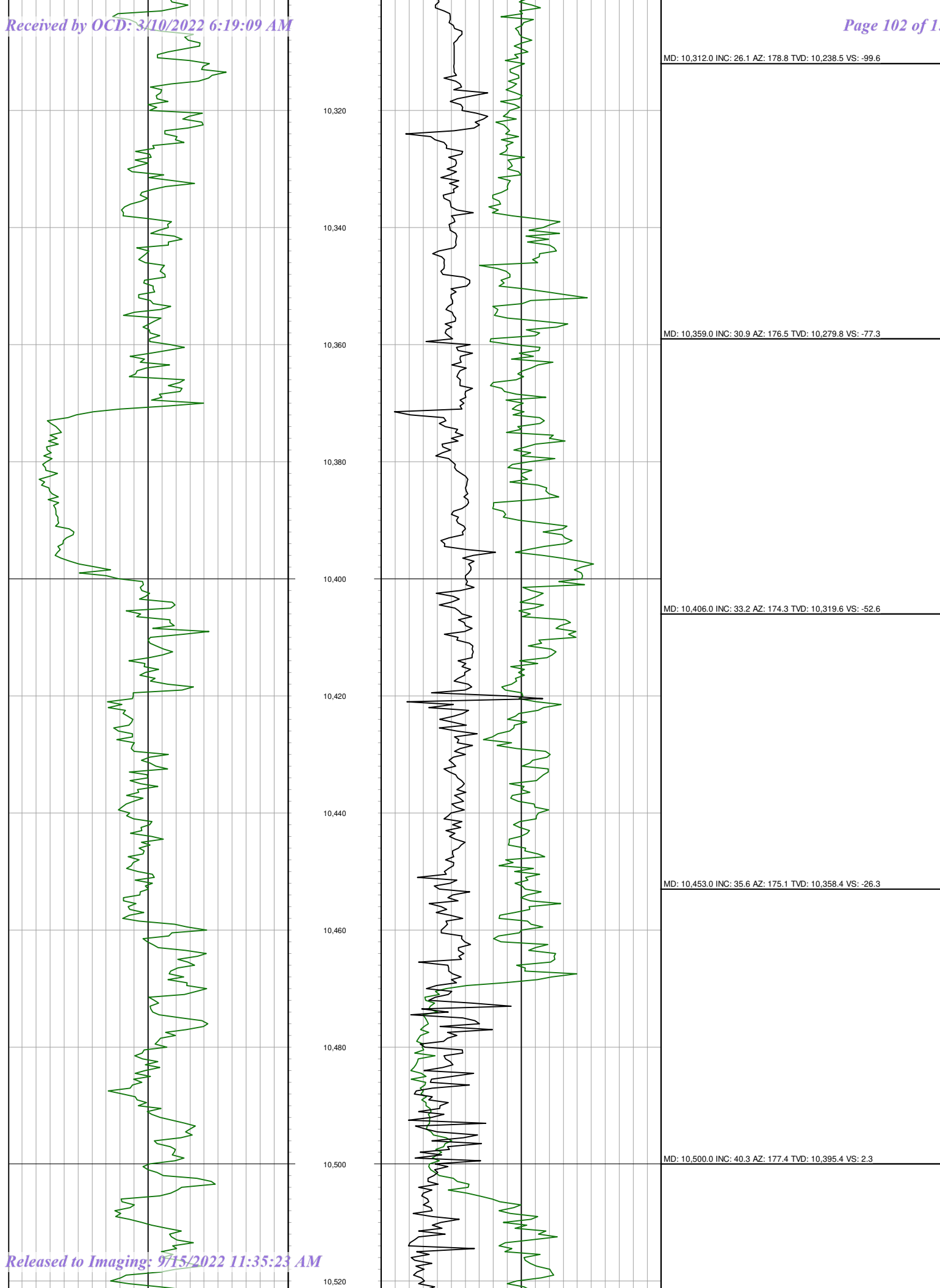


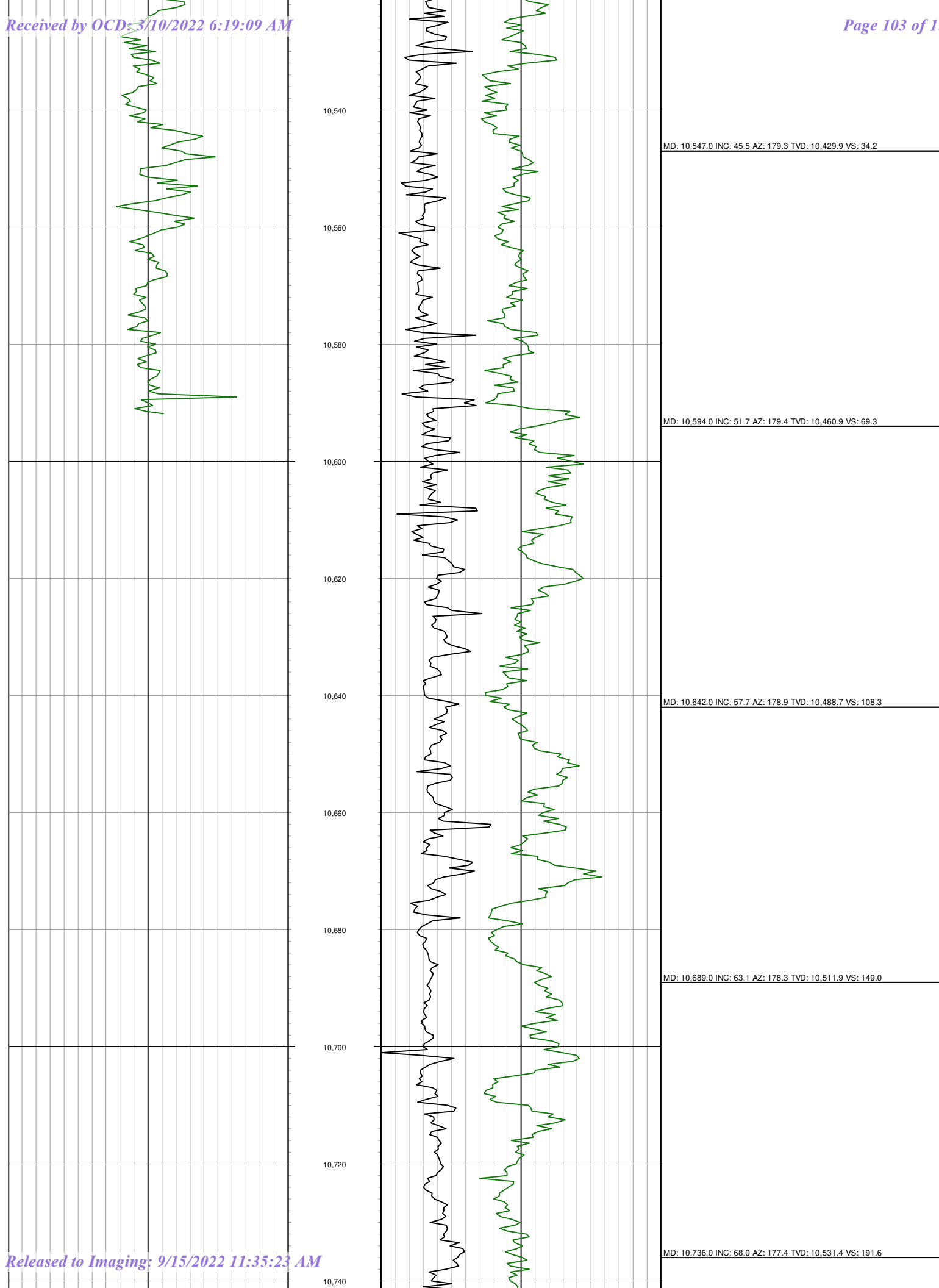
MD: 10,123.0 INC: 3.7 AZ: 187.5 TVD: 10,058.0 VS: -151.5

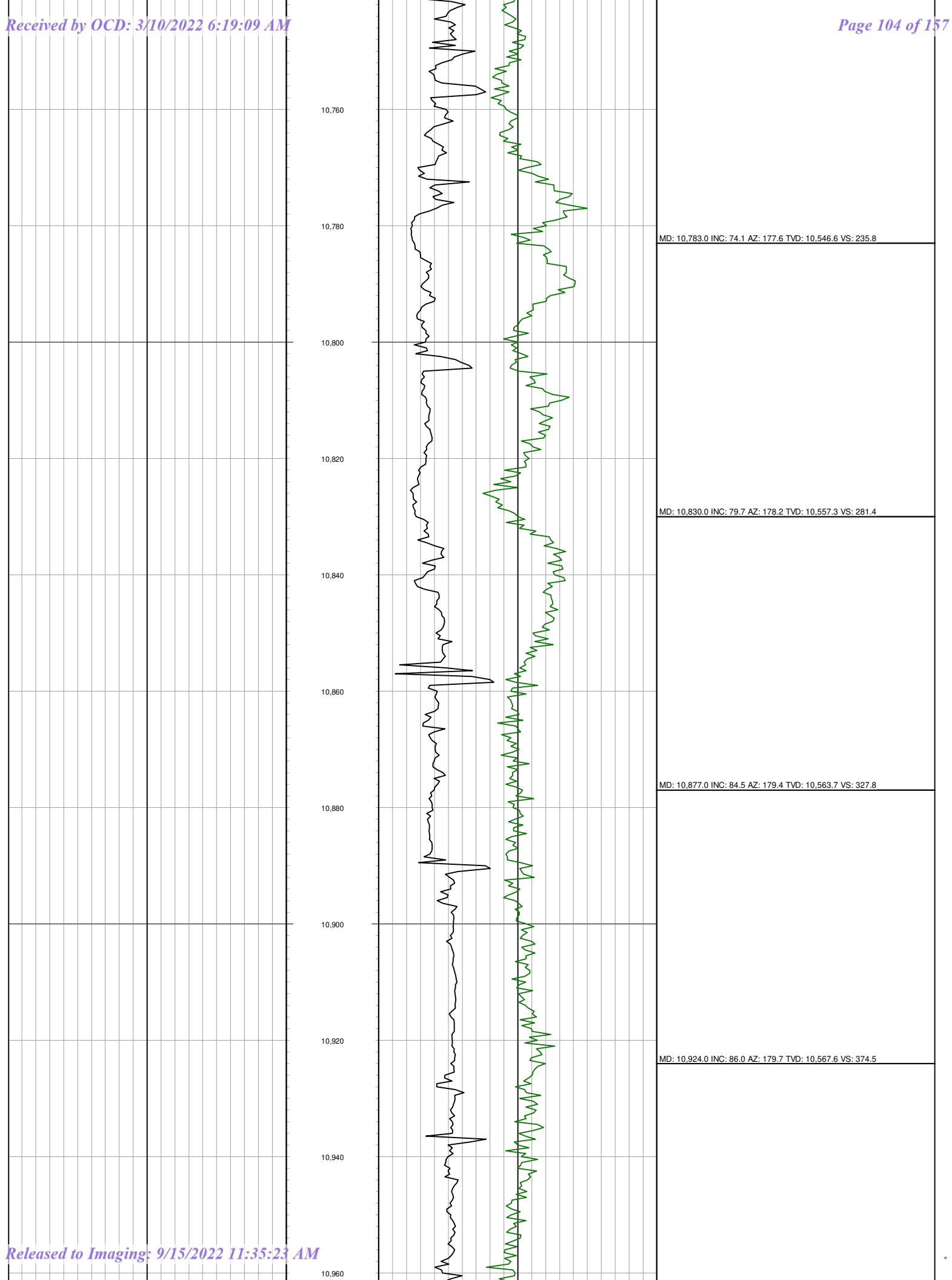
MD: 10,170.0 INC: 10.5 AZ: 180.5 TVD: 10,104.6 VS: -145.7

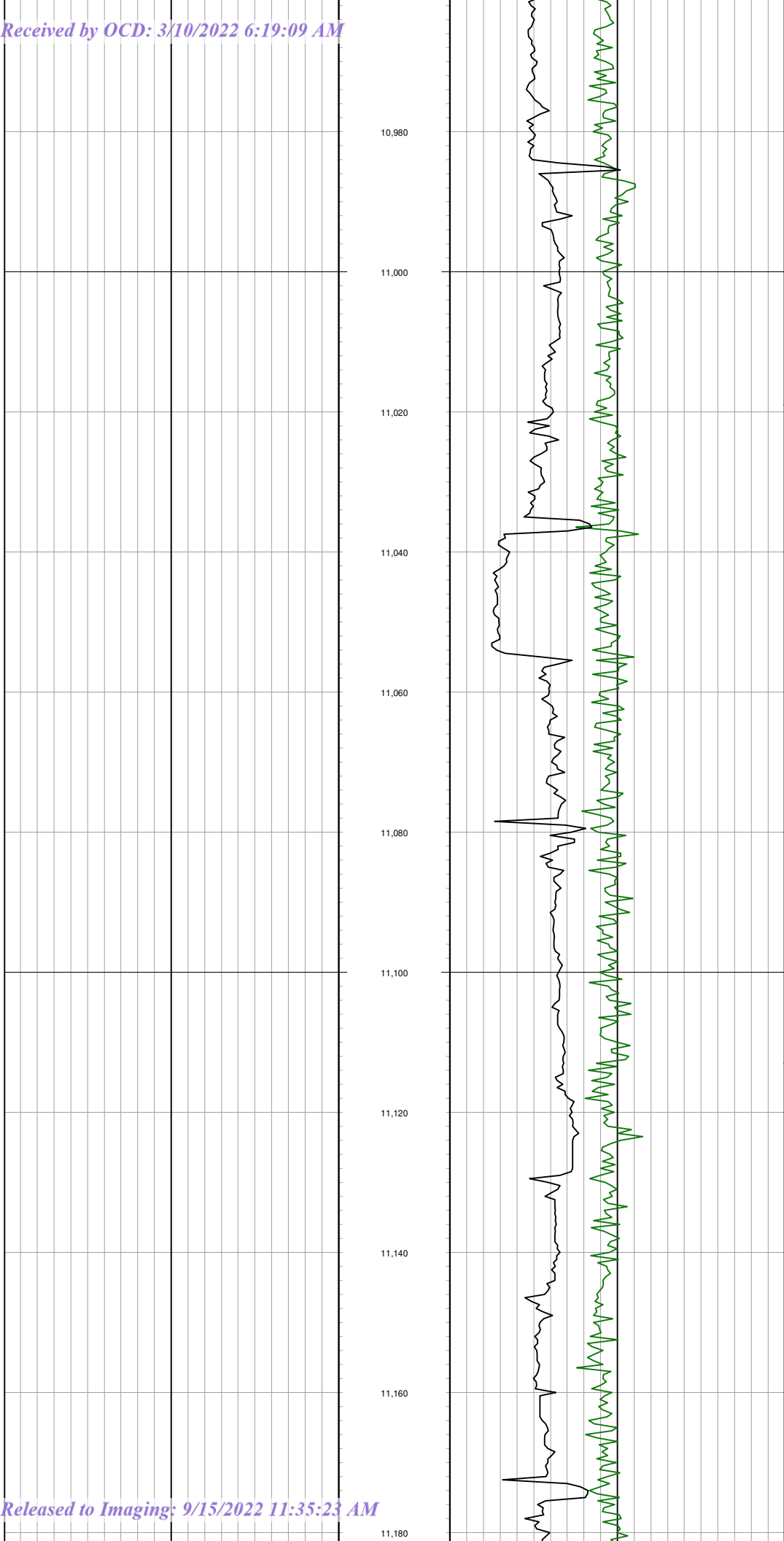
MD: 10,217.0 INC: 17.2 AZ: 178.4 TVD: 10,150.2 VS: -134.5

MD: 10,264.0 INC: 21.4 AZ: 179.4 TVD: 10,194.6 VS: -118.9



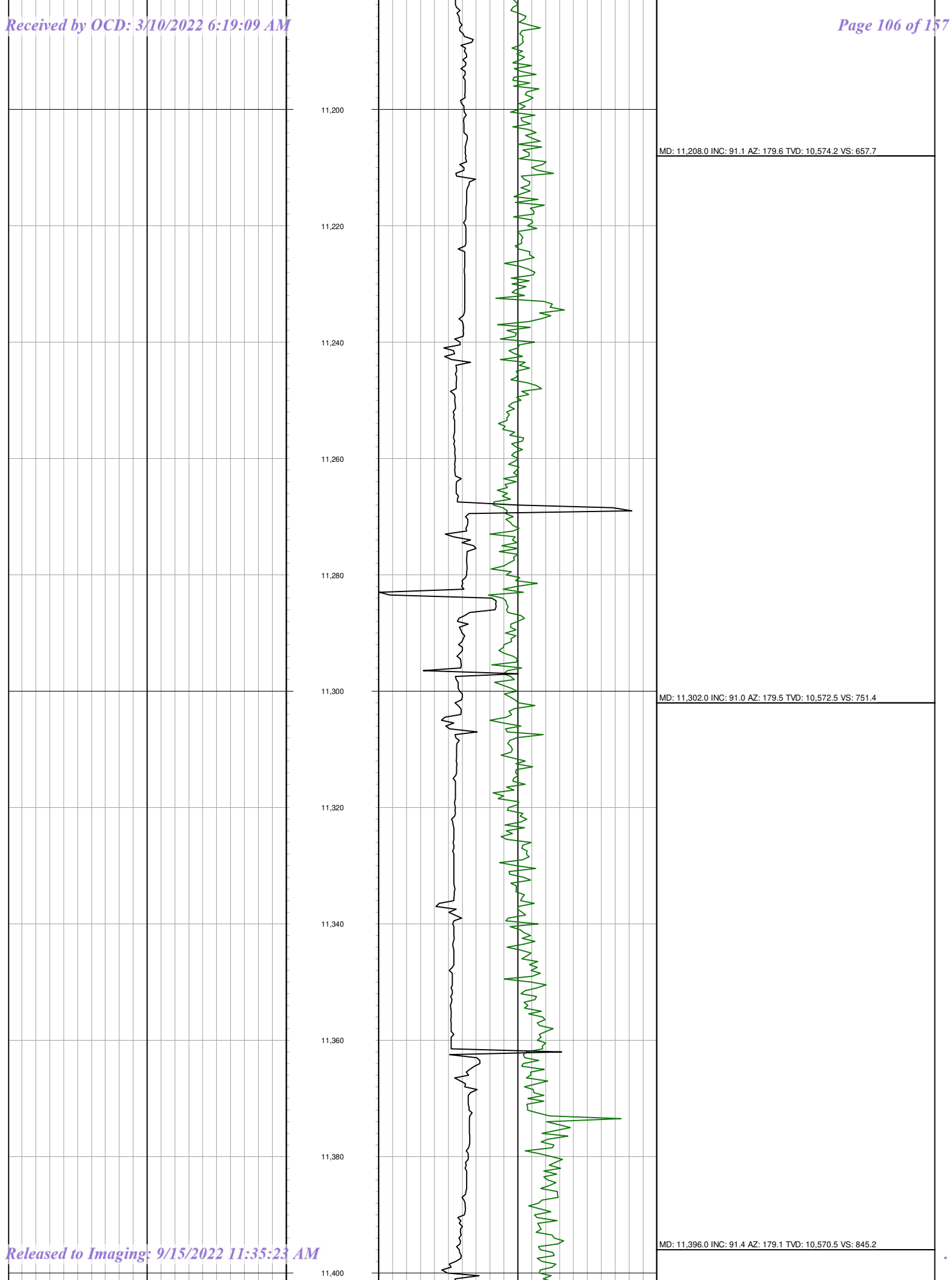


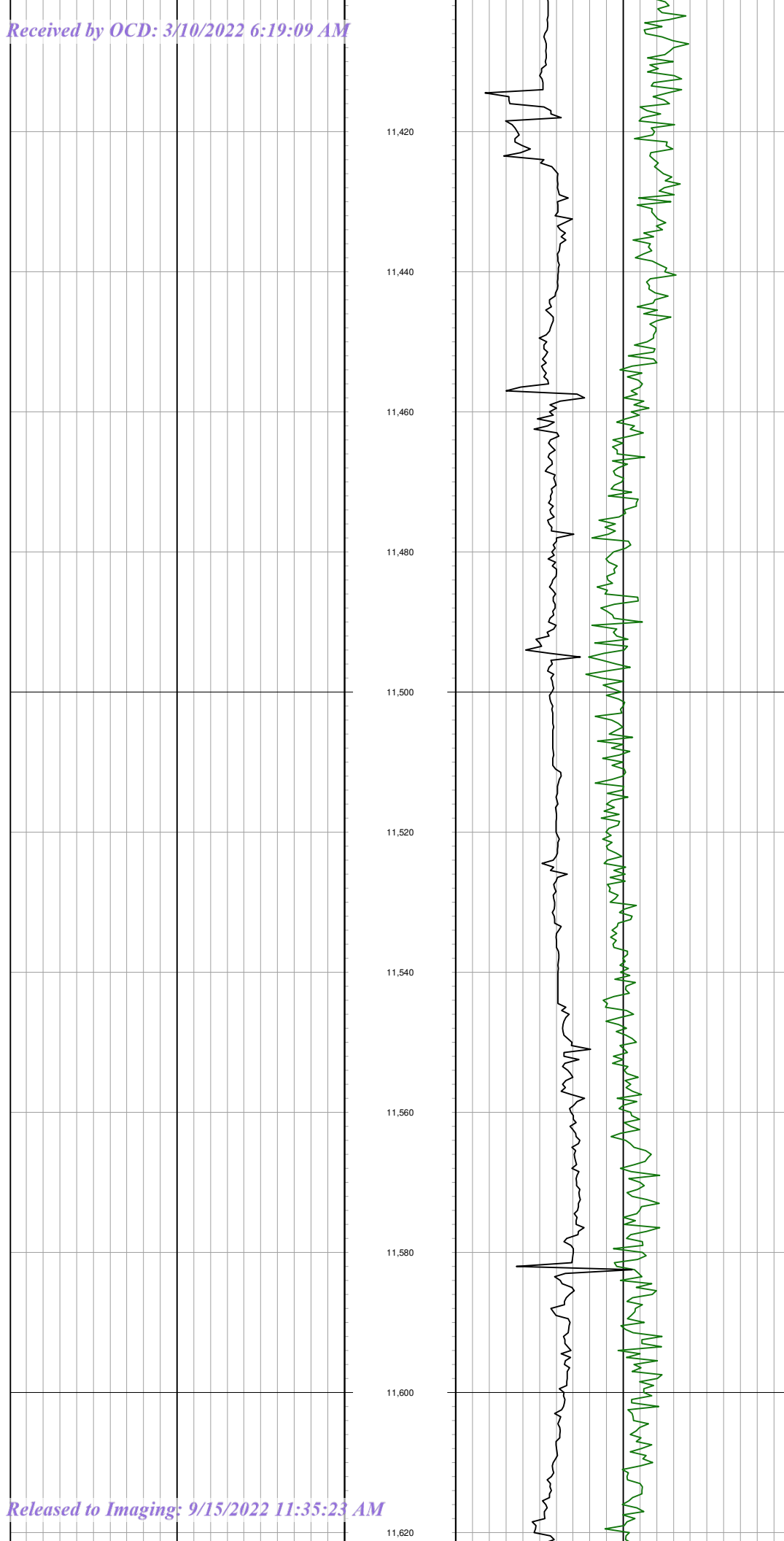




MD: 11,019.0 INC: 86.5 AZ: 178.9 TVD: 10,573.9 VS: 469.1

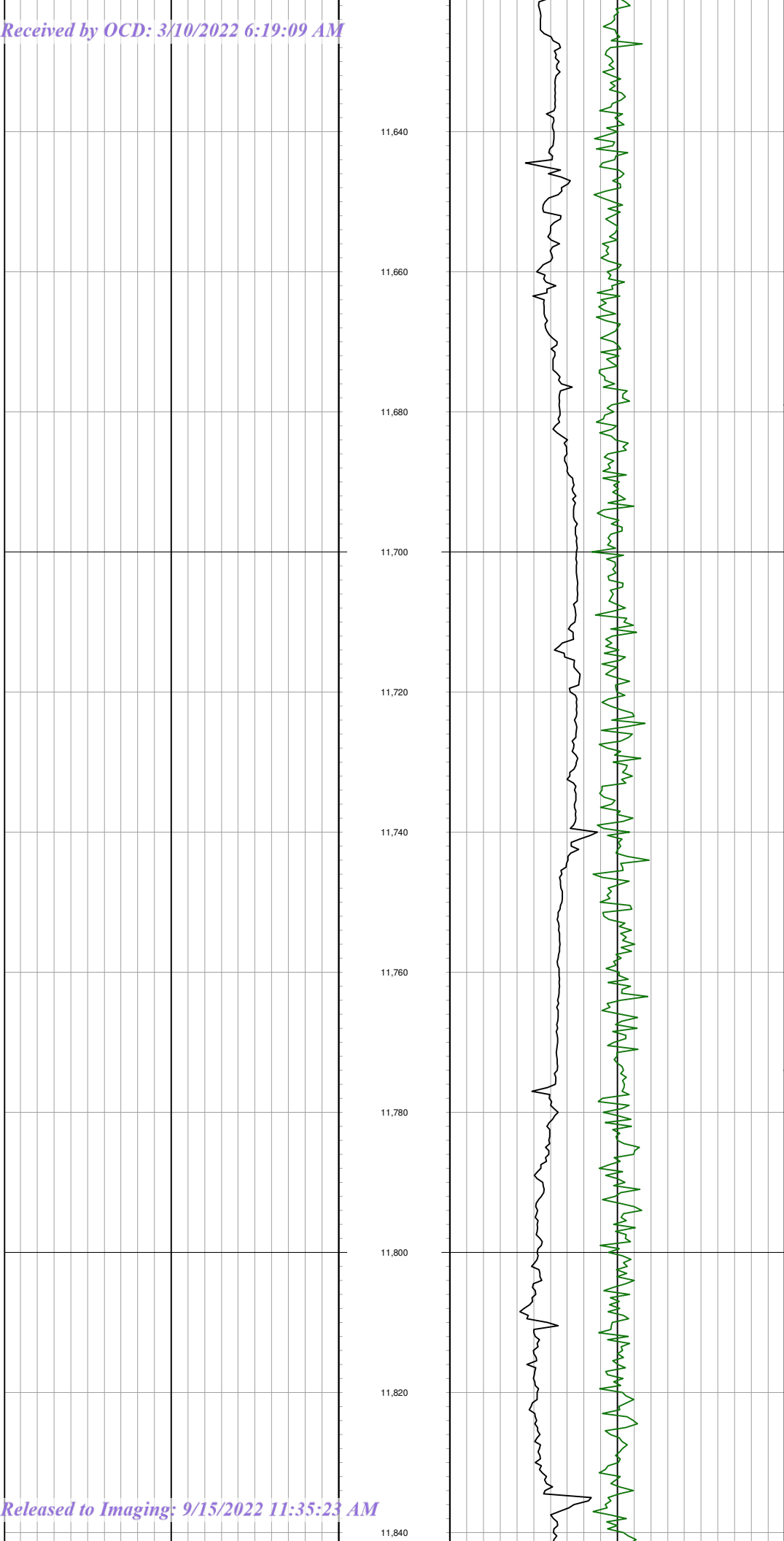
MD: 11,113.0 INC: 91.0 AZ: 180.0 TVD: 10,576.0 VS: 562.8

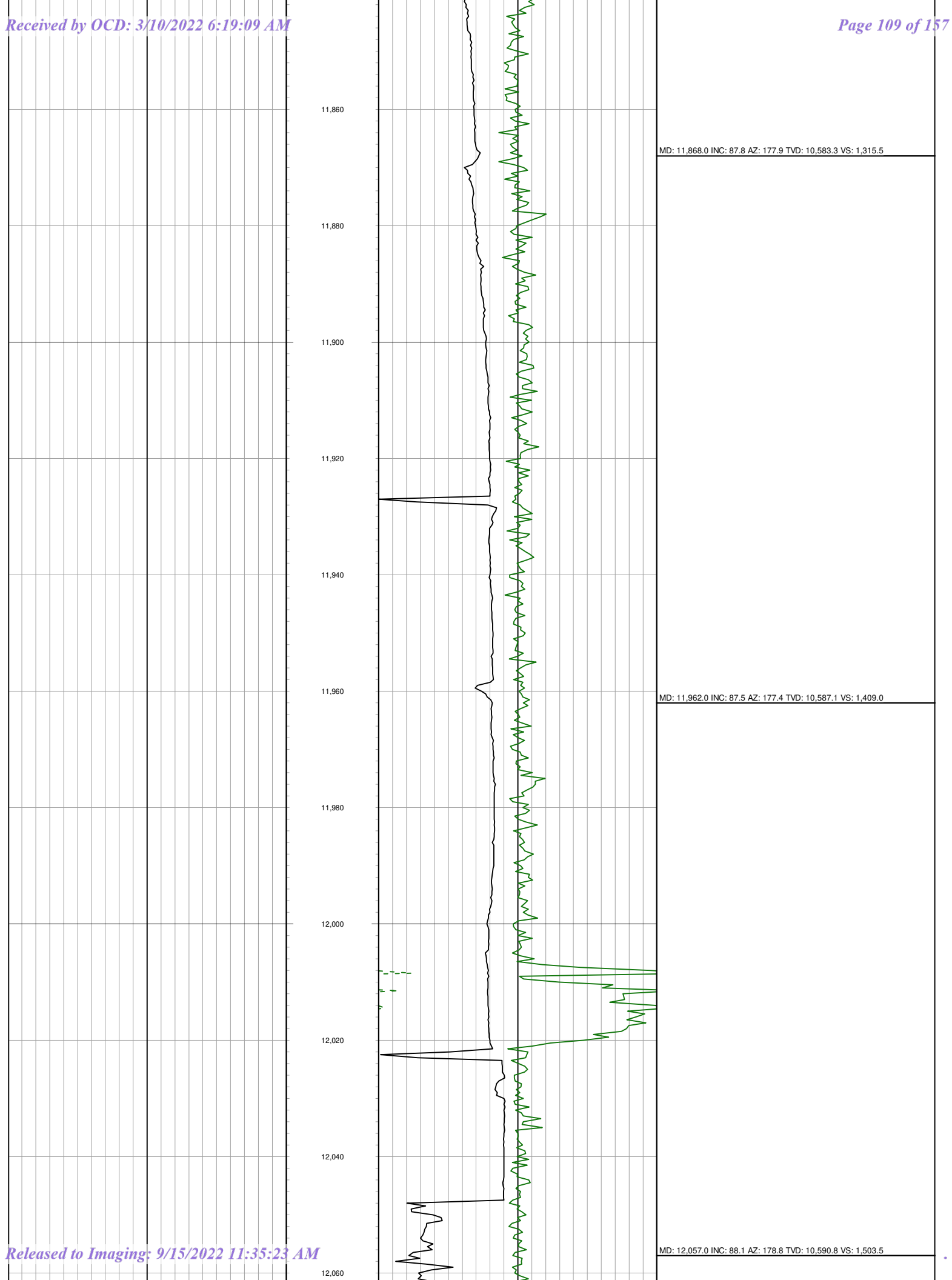


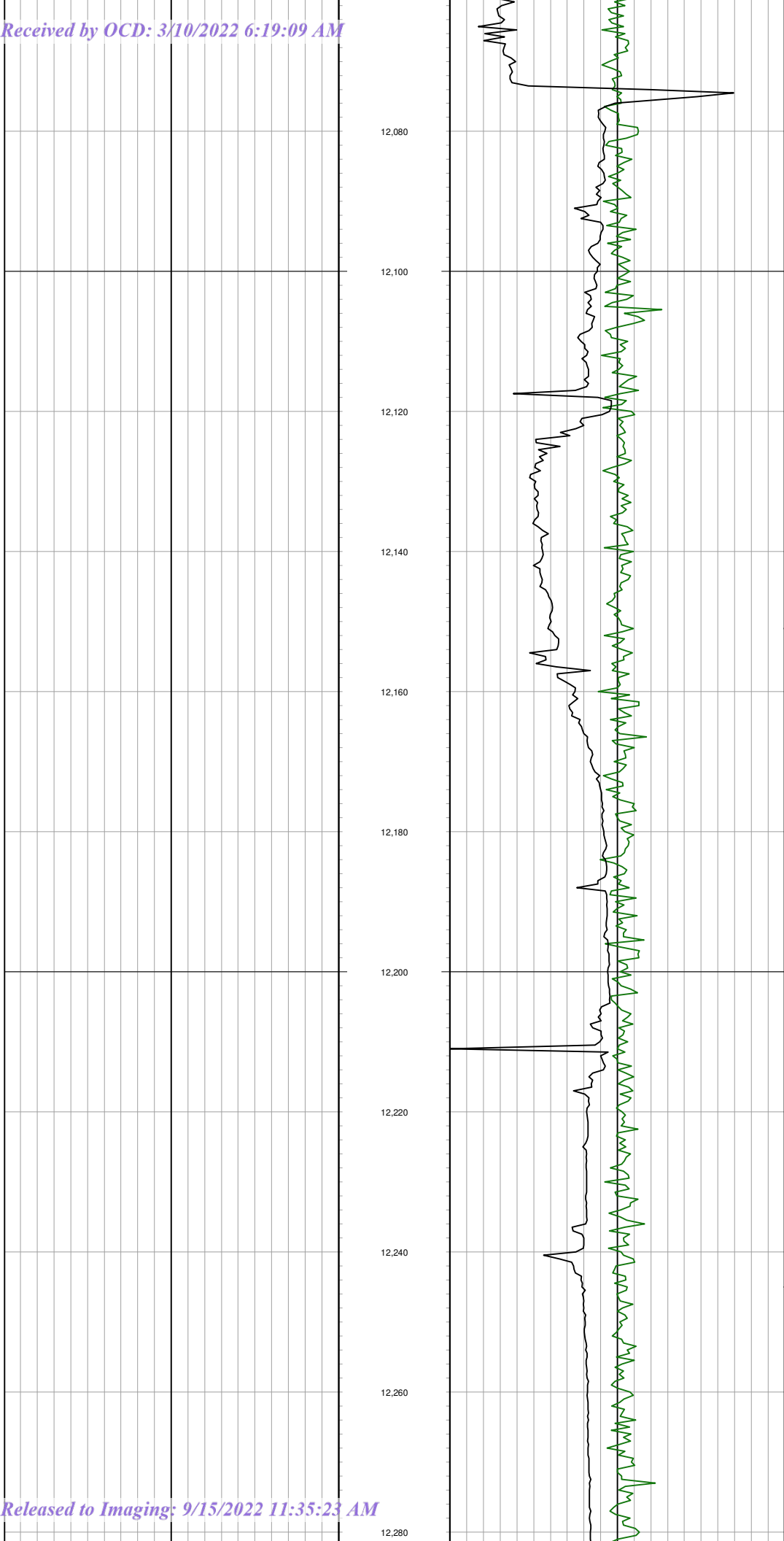


MD: 11,491.0 INC: 88.6 AZ: 179.7 TVD: 10,570.4 VS: 940.0

MD: 11,585.0 INC: 88.0 AZ: 179.2 TVD: 10,573.2 VS: 1,033.7

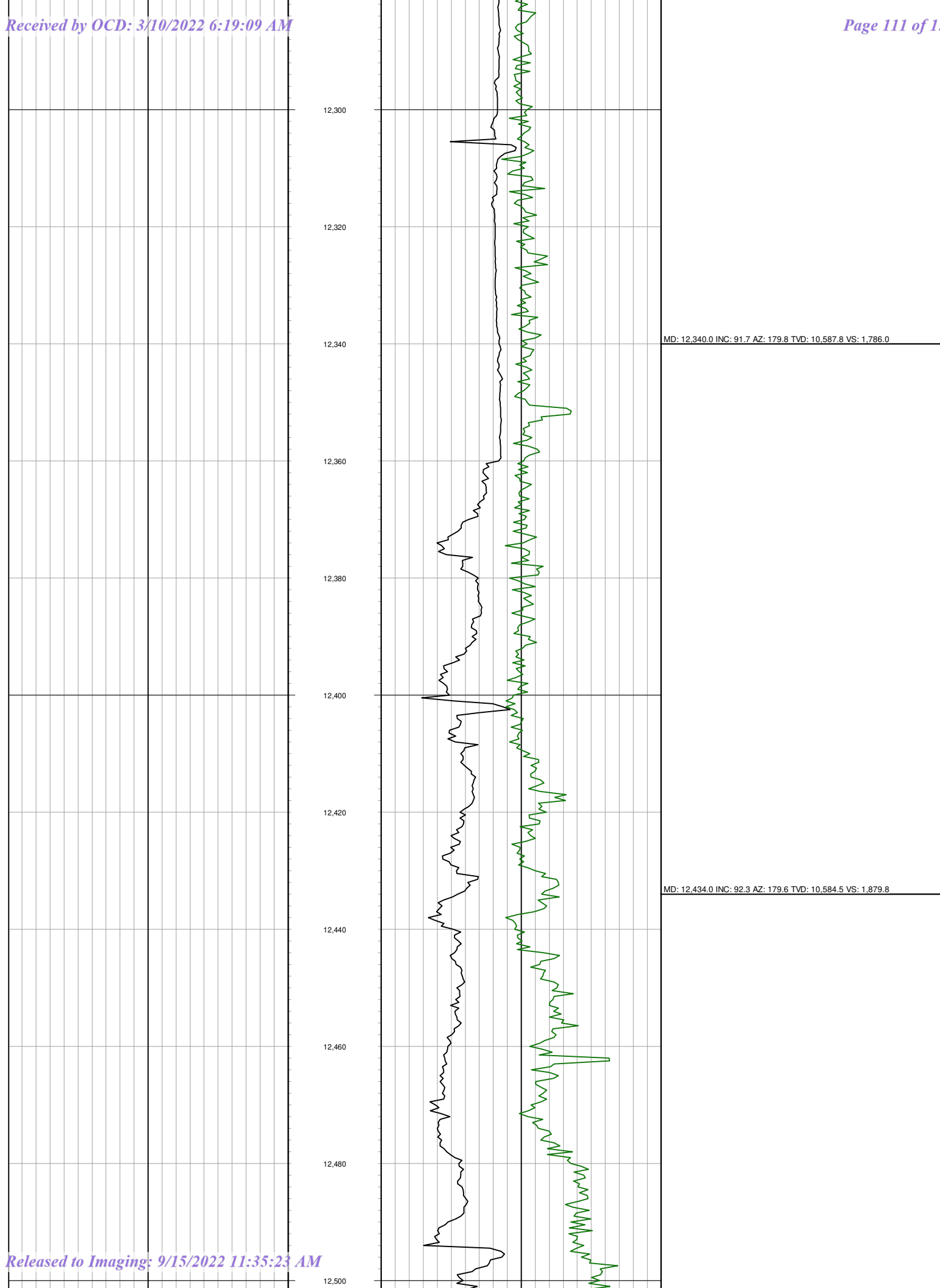


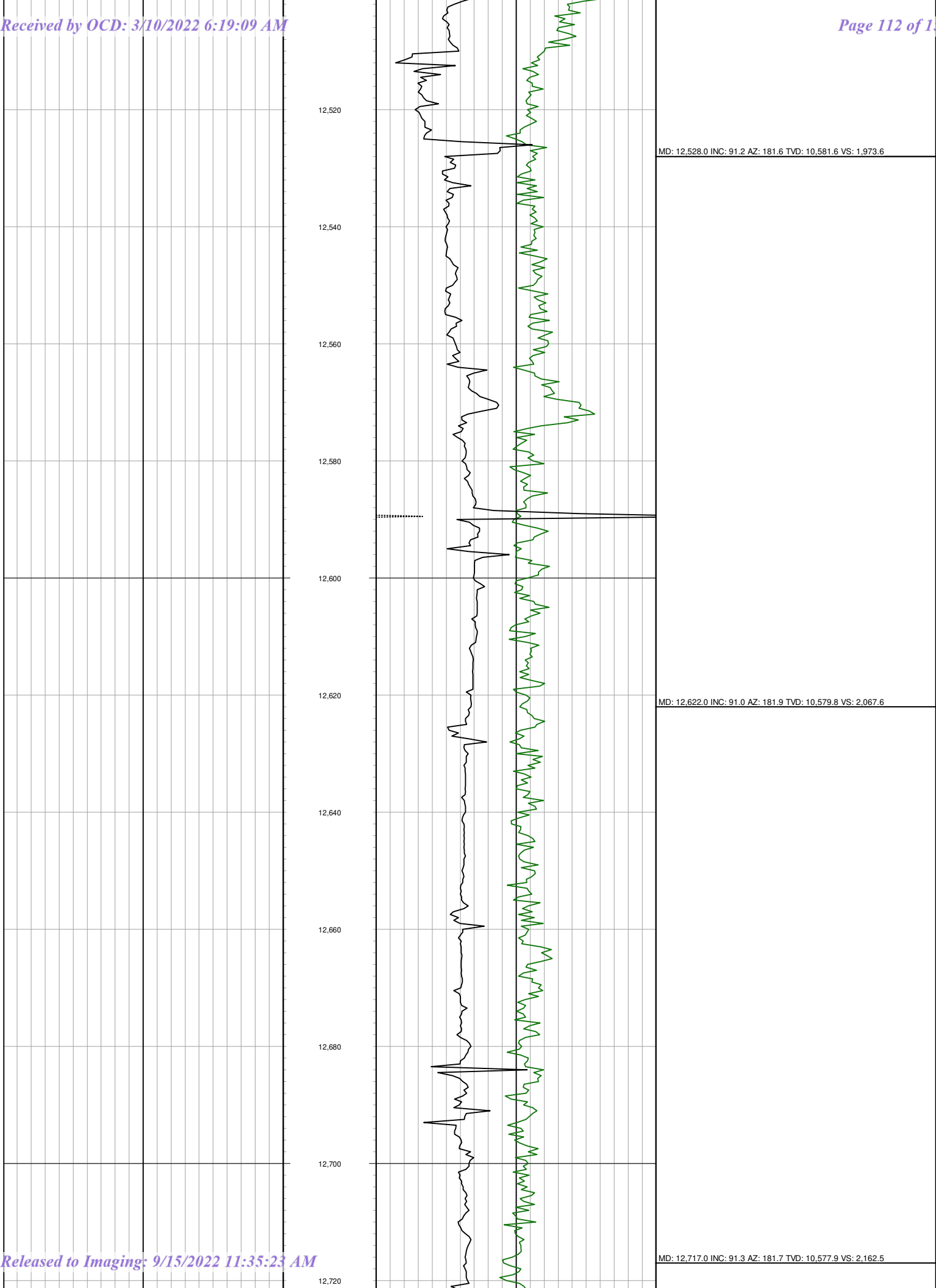


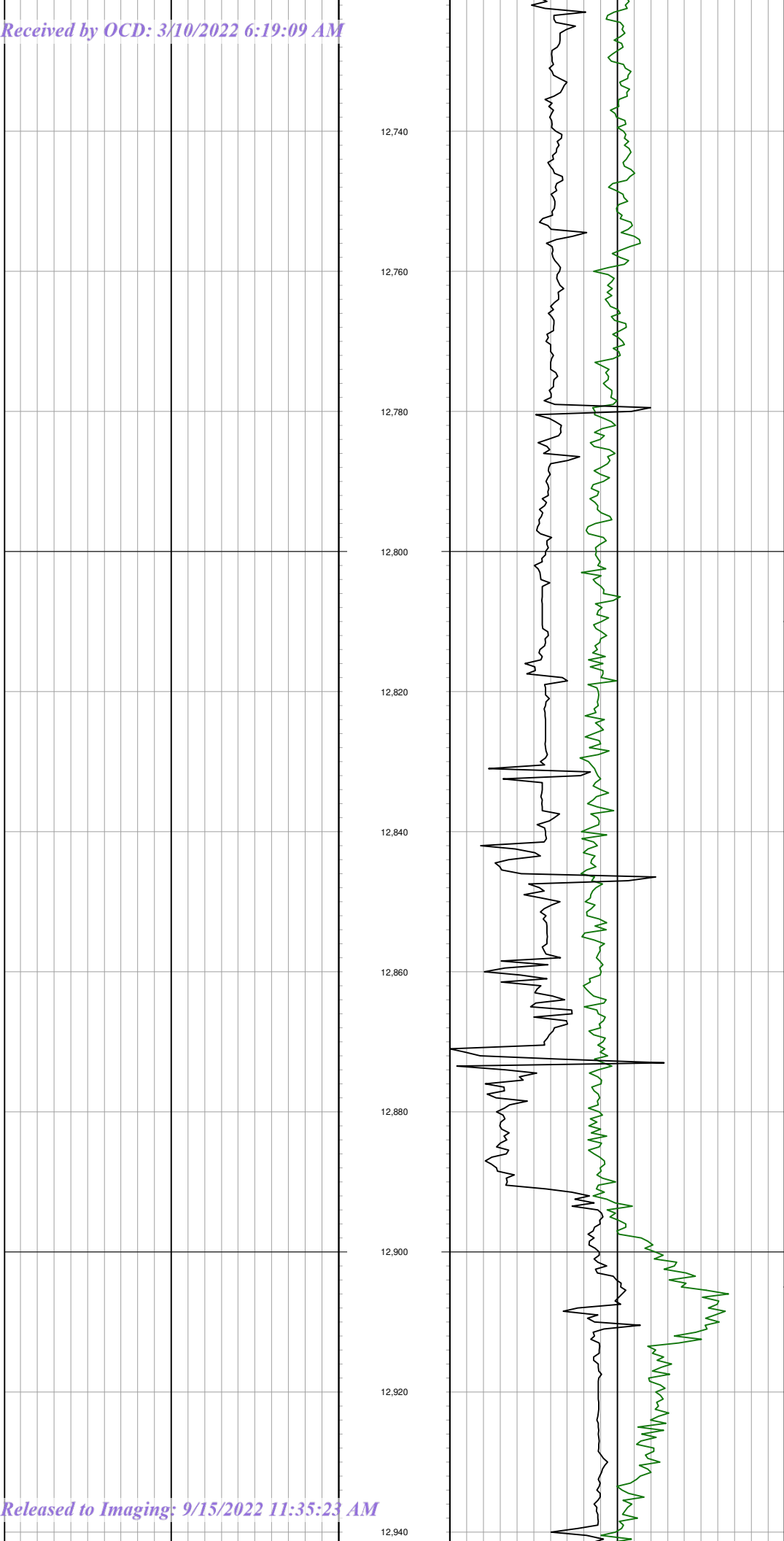


MD: 12.151.0 INC: 90.5 AZ: 180.6 TVD: 10,591.9 VS: 1,597.3

MD: 12.245.0 INC: 91.4 AZ: 180.3 TVD: 10,590.4 VS: 1,691.2

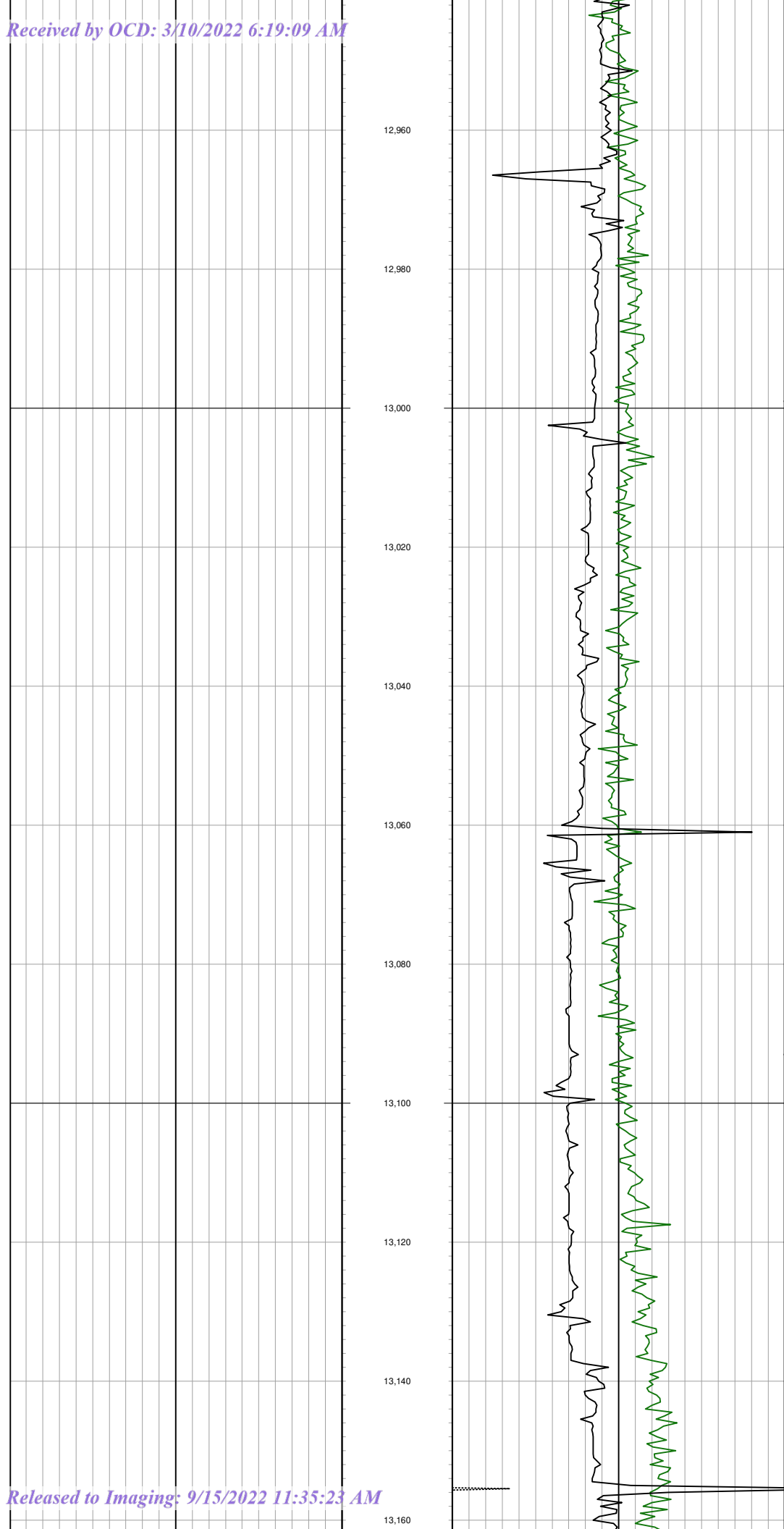






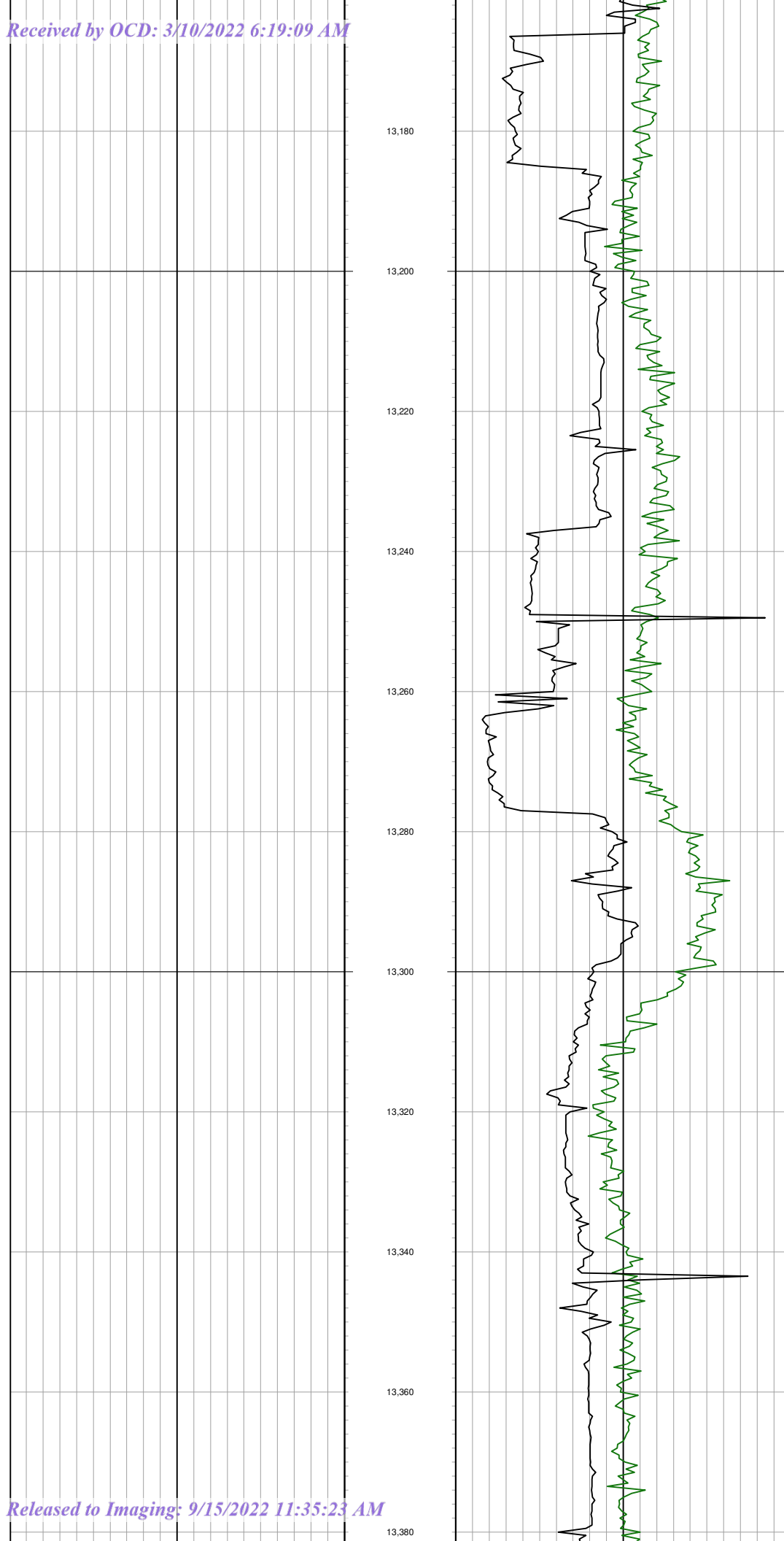
MD: 12,810.0 INC: 92.3 AZ: 180.9 TVD: 10,574.9 VS: 2,255.4

MD: 12,905.0 INC: 89.8 AZ: 180.2 TVD: 10,573.2 VS: 2,350.3



MD: 12,999.0 INC: 89.6 AZ: 179.7 TVD: 10,573.7 VS: 2,444.1

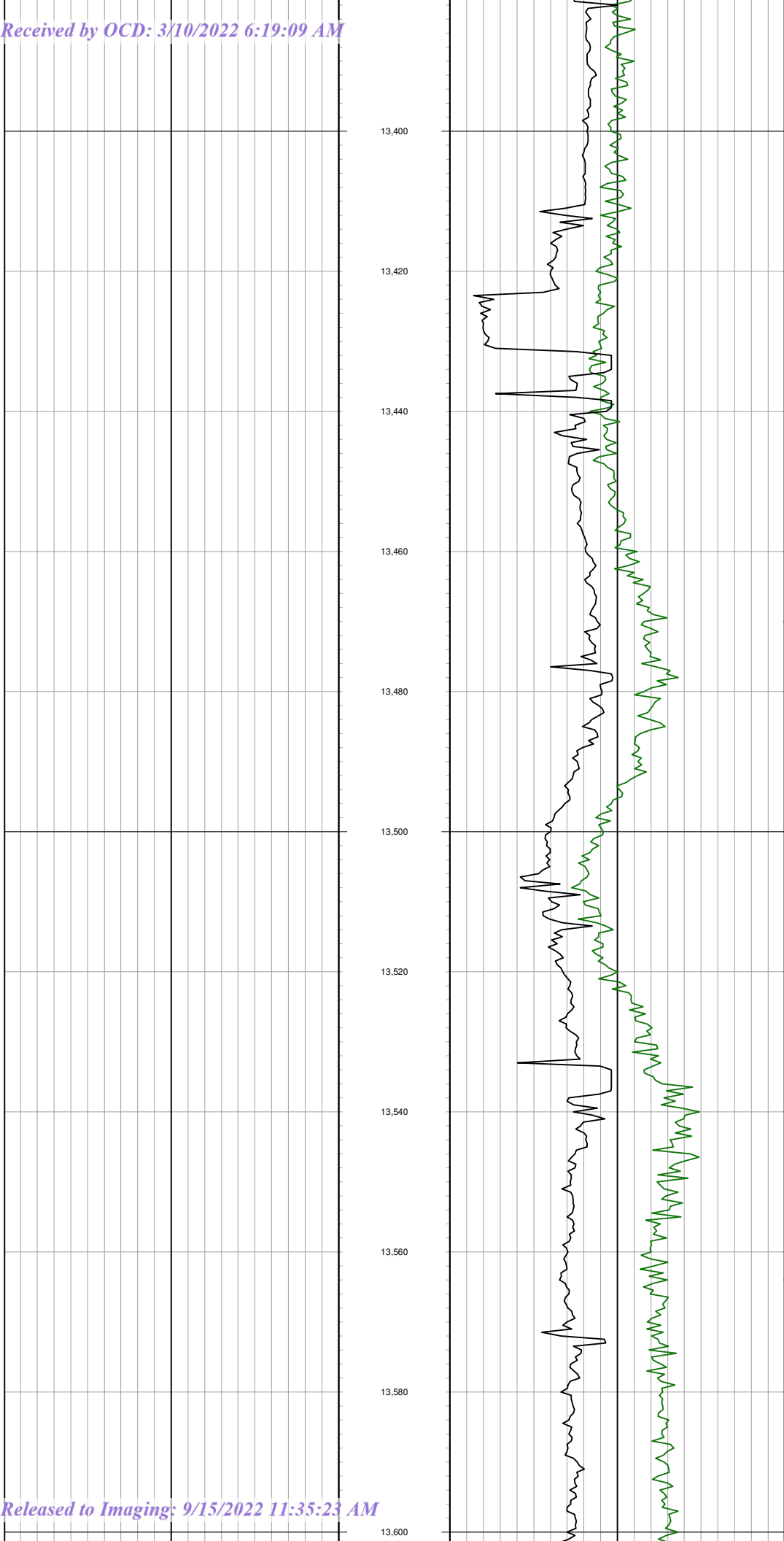
MD: 13,093.0 INC: 89.6 AZ: 178.8 TVD: 10,574.4 VS: 2,537.9



MD: 13,188.0 INC: 89.6 AZ: 180.4 TVD: 10,575.0 VS: 2,632.7

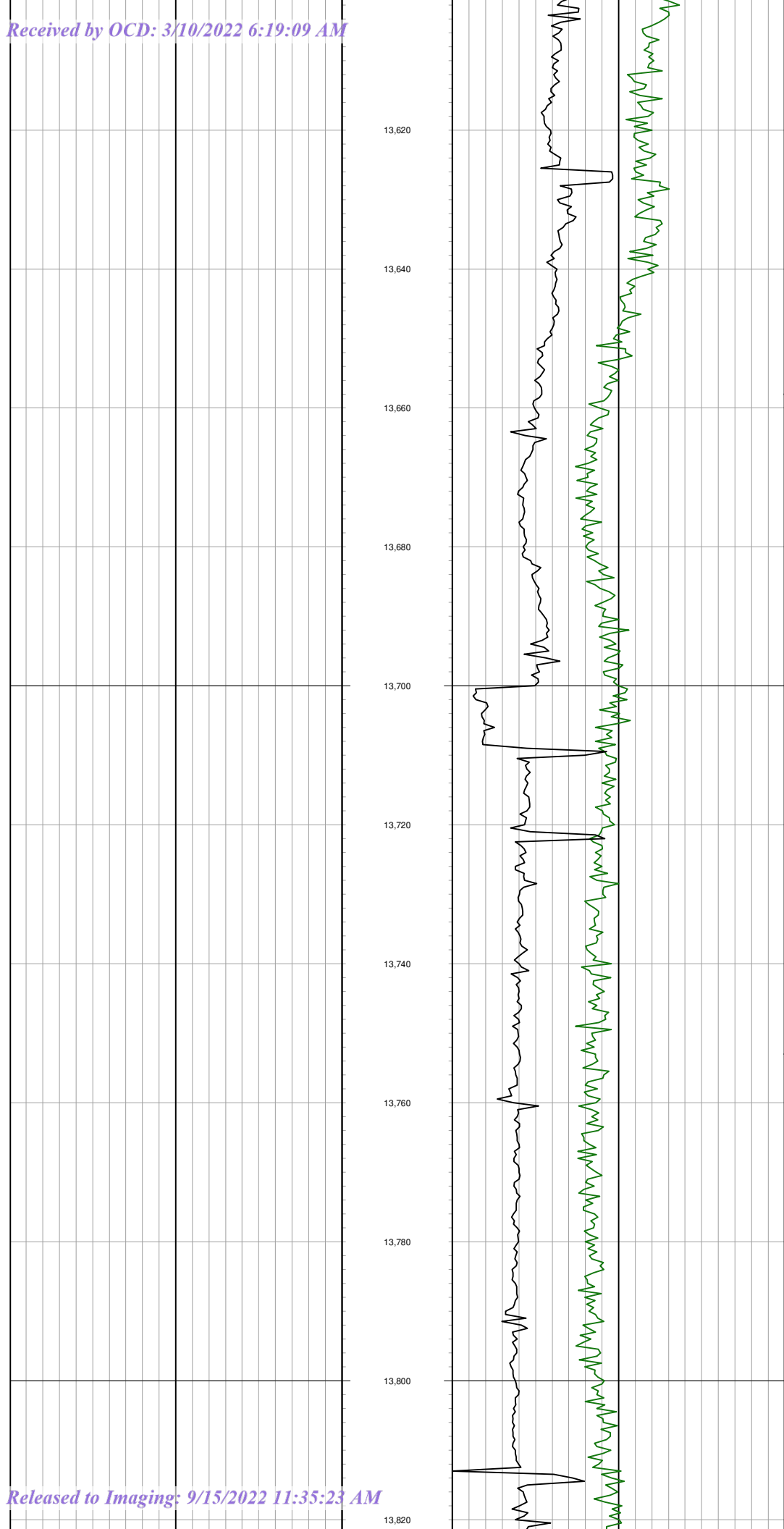
MD: 13,281.0 INC: 92.1 AZ: 180.7 TVD: 10,573.6 VS: 2,725.6

MD: 13,376.0 INC: 93.0 AZ: 179.6 TVD: 10,569.4 VS: 2,820.3



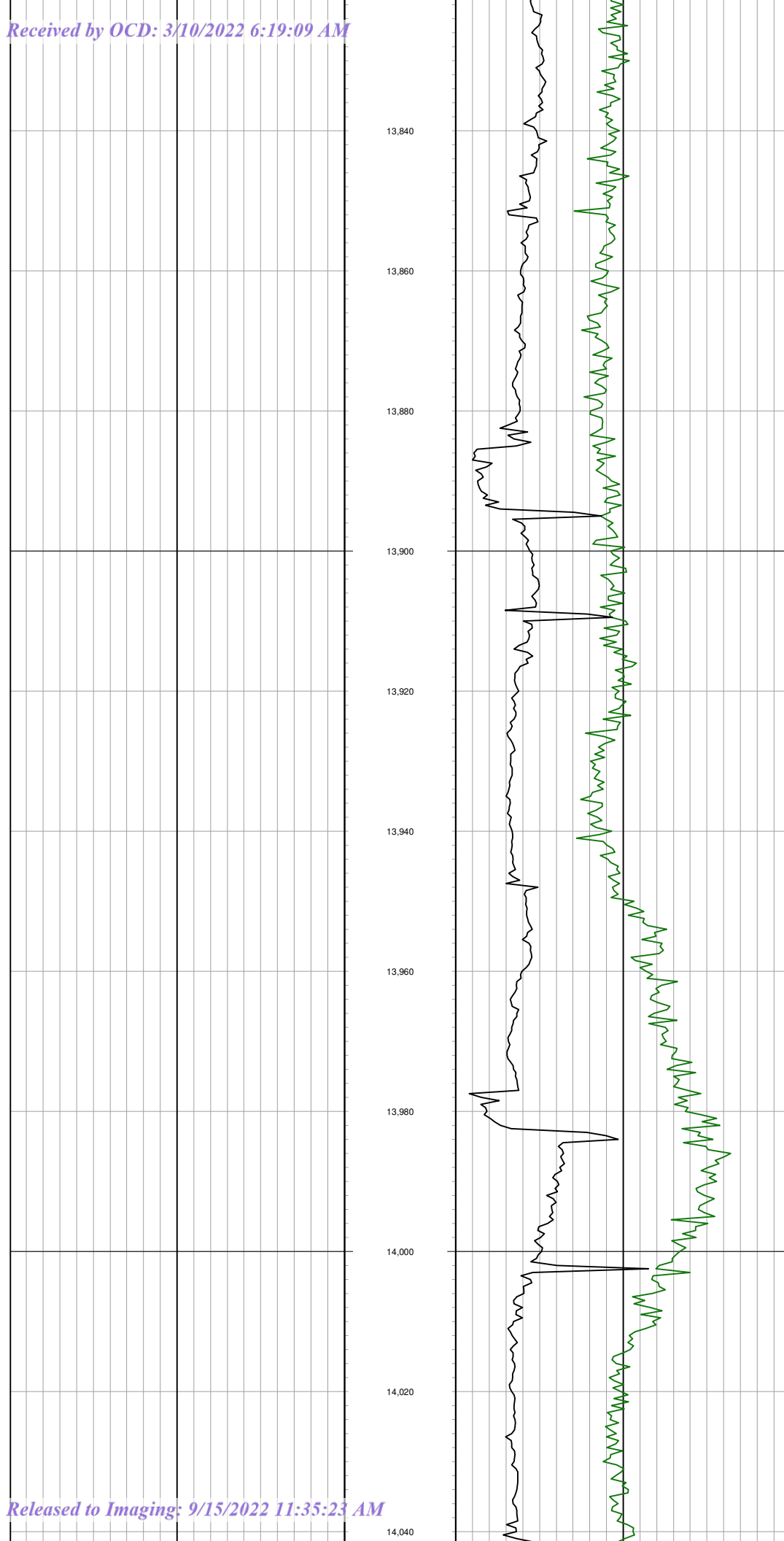
MD: 13,470.0 INC: 91.0 AZ: 179.2 TVD: 10,566.0 VS: 2,914.0

MD: 13,564.0 INC: 91.5 AZ: 178.8 TVD: 10,563.9 VS: 3,007.8



MD: 13,658.0 INC: 92.2 AZ: 178.5 TVD: 10,560.9 VS: 3,101.4

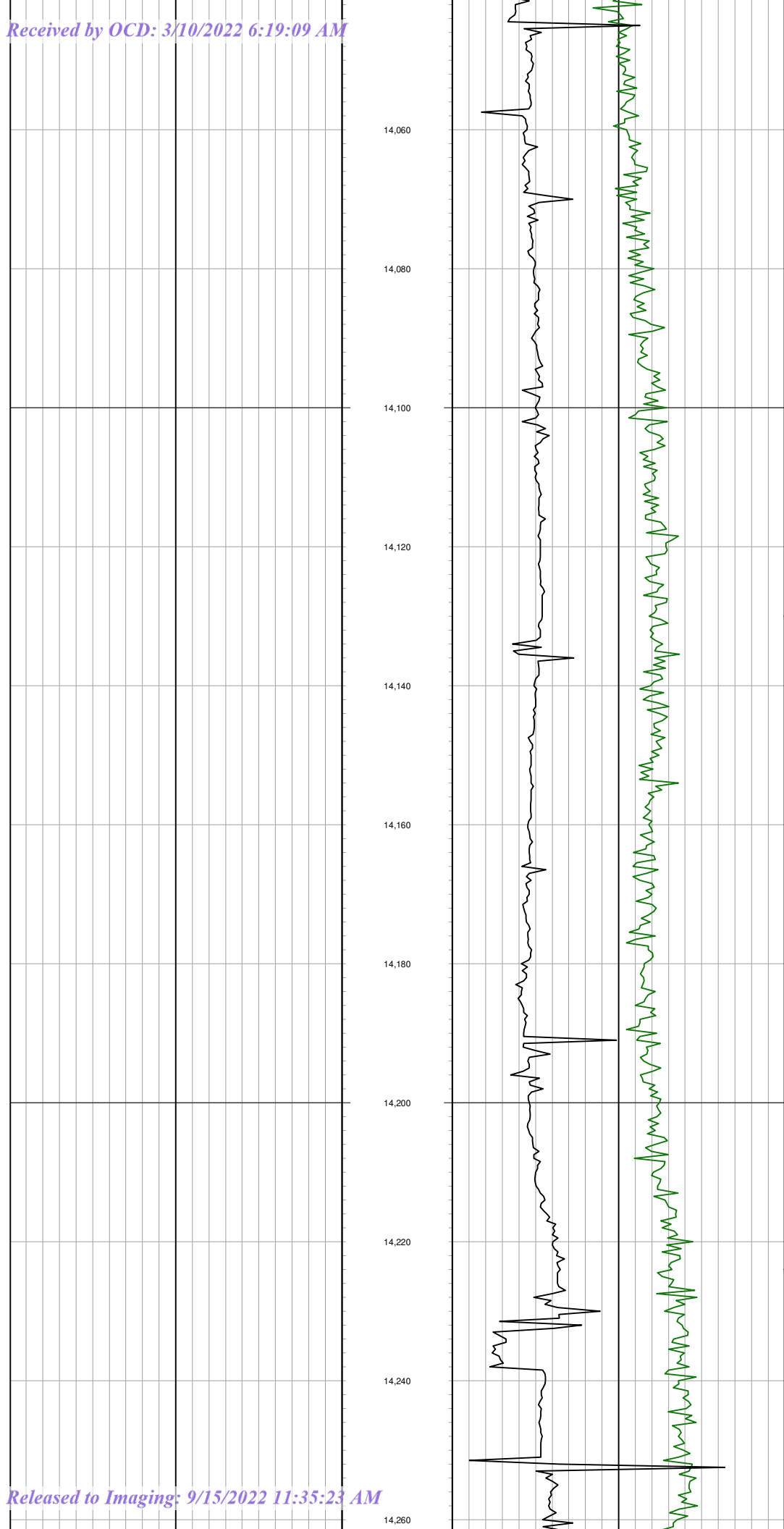
MD: 13,753.0 INC: 89.7 AZ: 179.7 TVD: 10,559.3 VS: 3,196.1



MD: 13.847.0 INC: 88.7 AZ: 179.4 TVD: 10,560.6 VS: 3,289.9

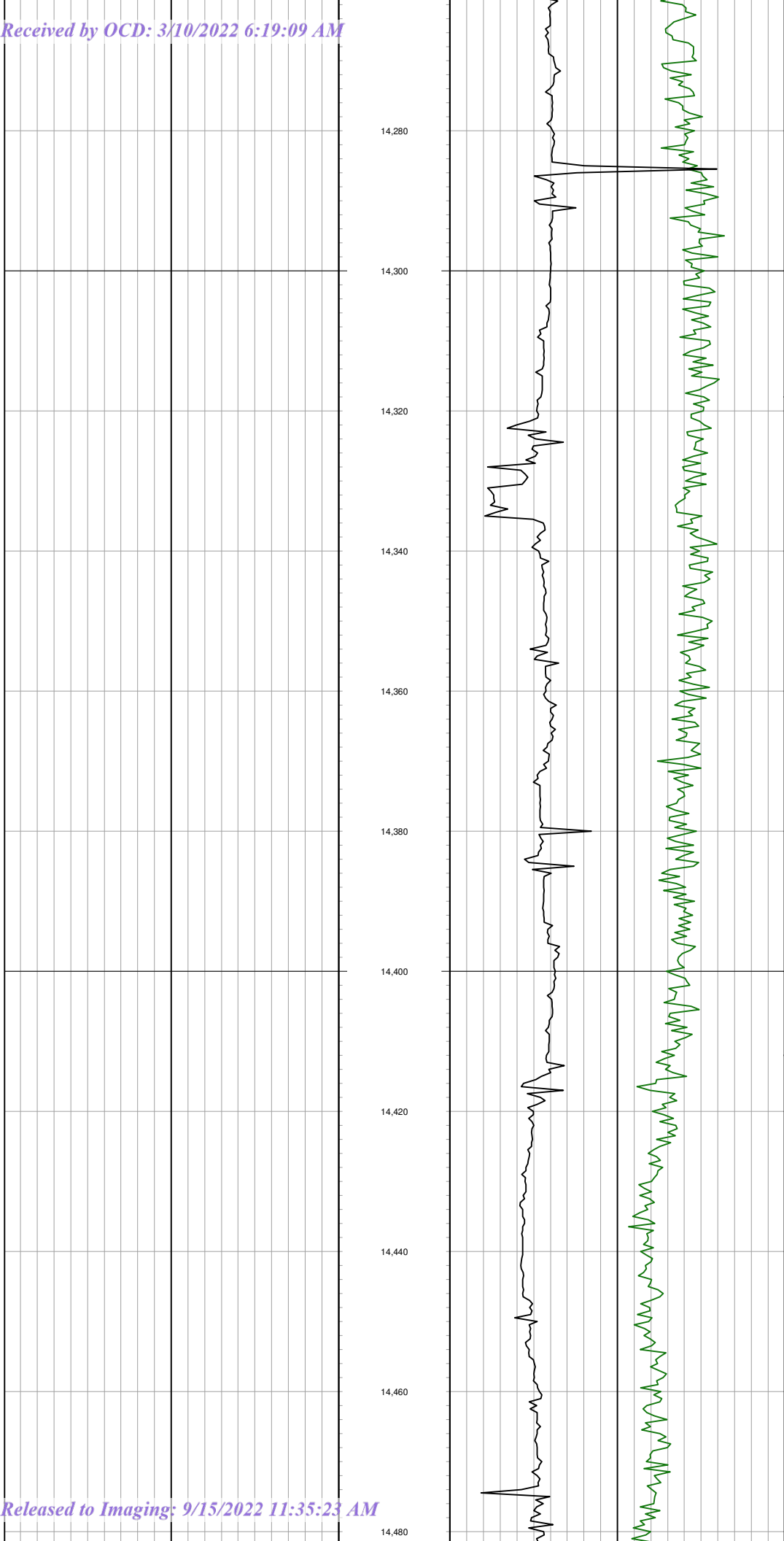
MD: 13.941.0 INC: 90.1 AZ: 180.8 TVD: 10,561.6 VS: 3,383.8

MD: 14.036.0 INC: 91.1 AZ: 180.9 TVD: 10,560.6 VS: 3,478.7



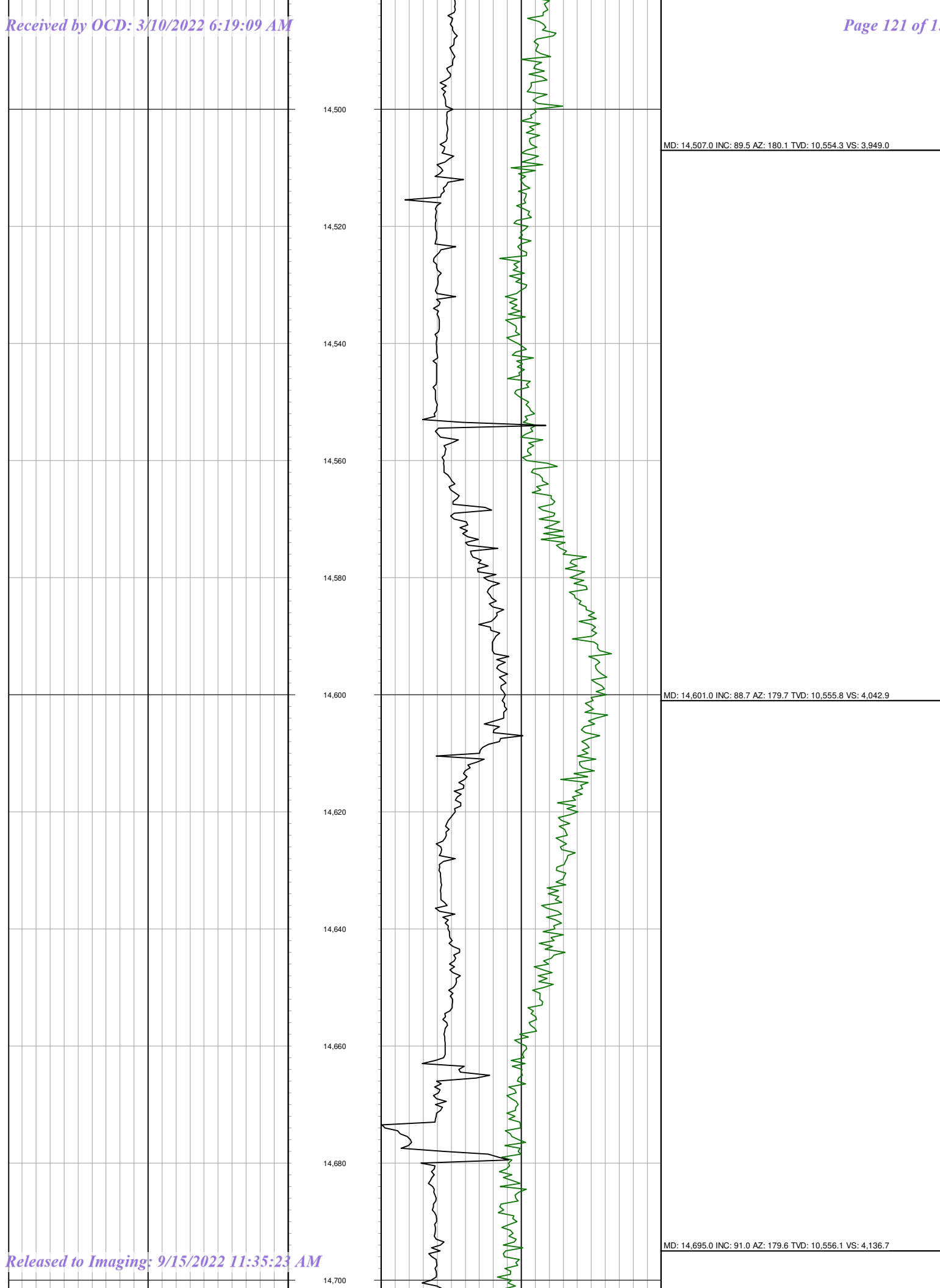
MD: 14,130.0 INC: 91.5 AZ: 180.9 TVD: 10,558.5 VS: 3,572.6

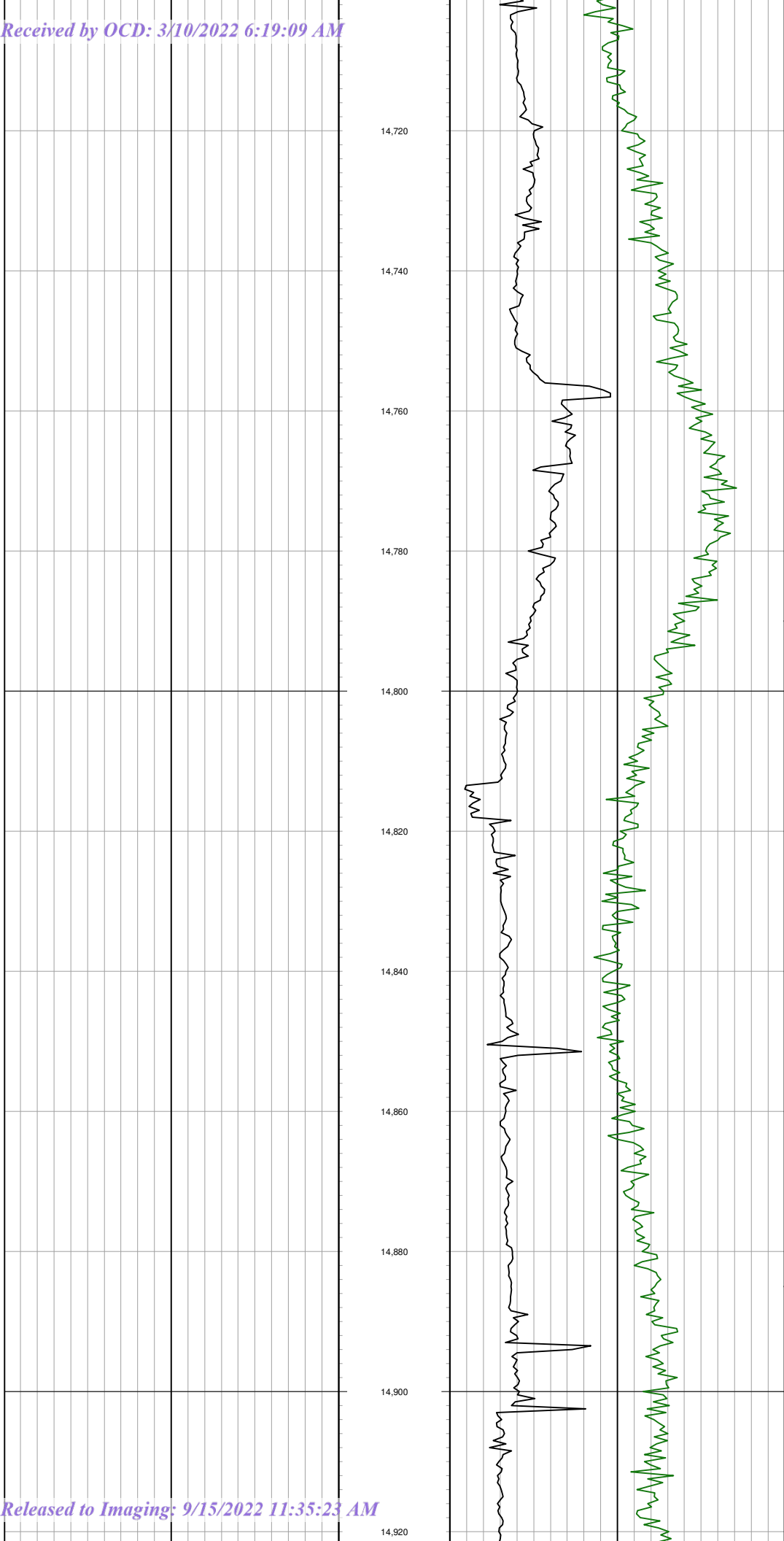
MD: 14,224.0 INC: 91.7 AZ: 180.9 TVD: 10,555.9 VS: 3,666.5



MD: 14,318.0 INC: 90.8 AZ: 180.3 TVD: 10,553.8 VS: 3,760.3

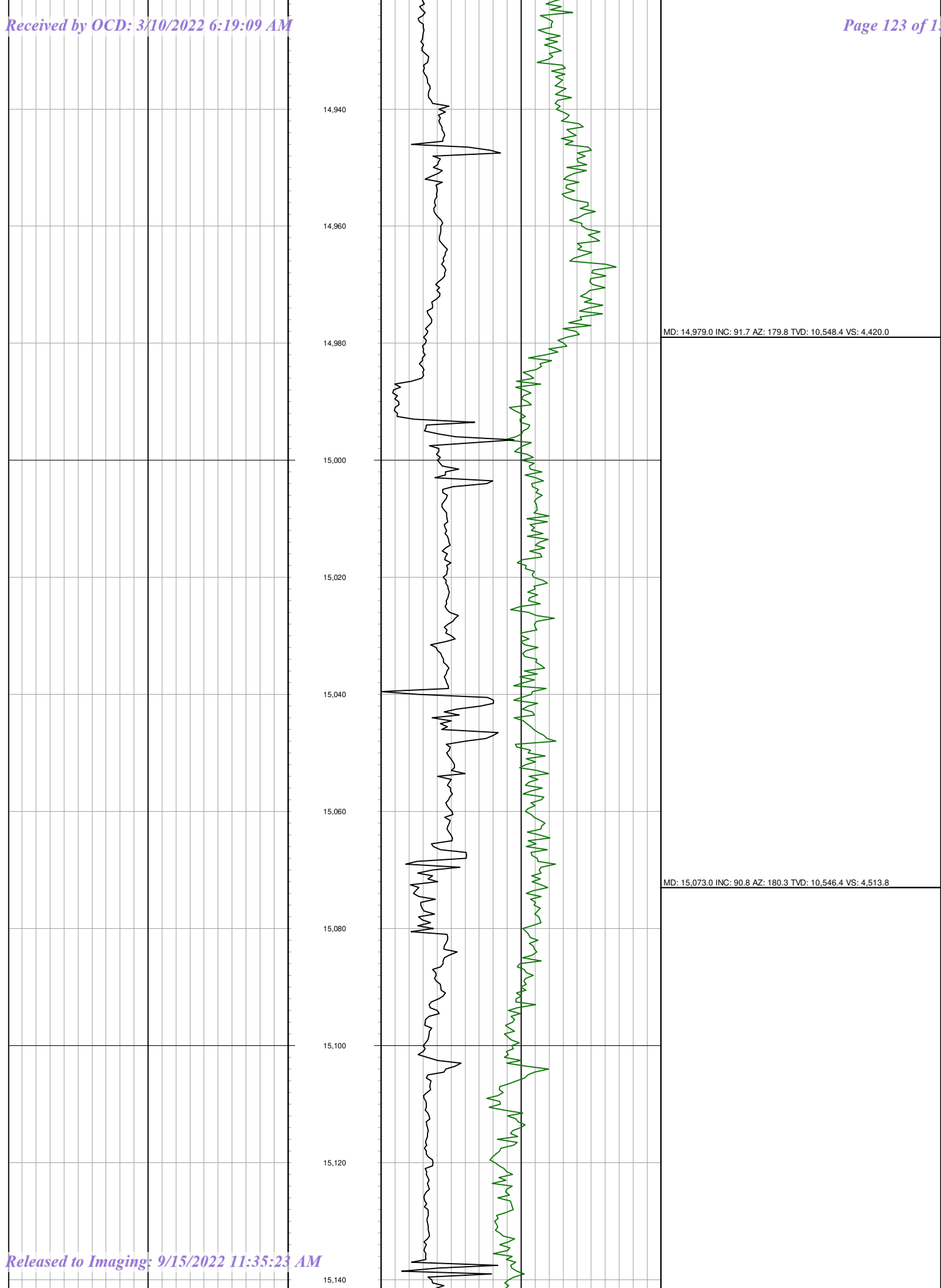
MD: 14,412.0 INC: 89.6 AZ: 180.0 TVD: 10,553.6 VS: 3,854.2

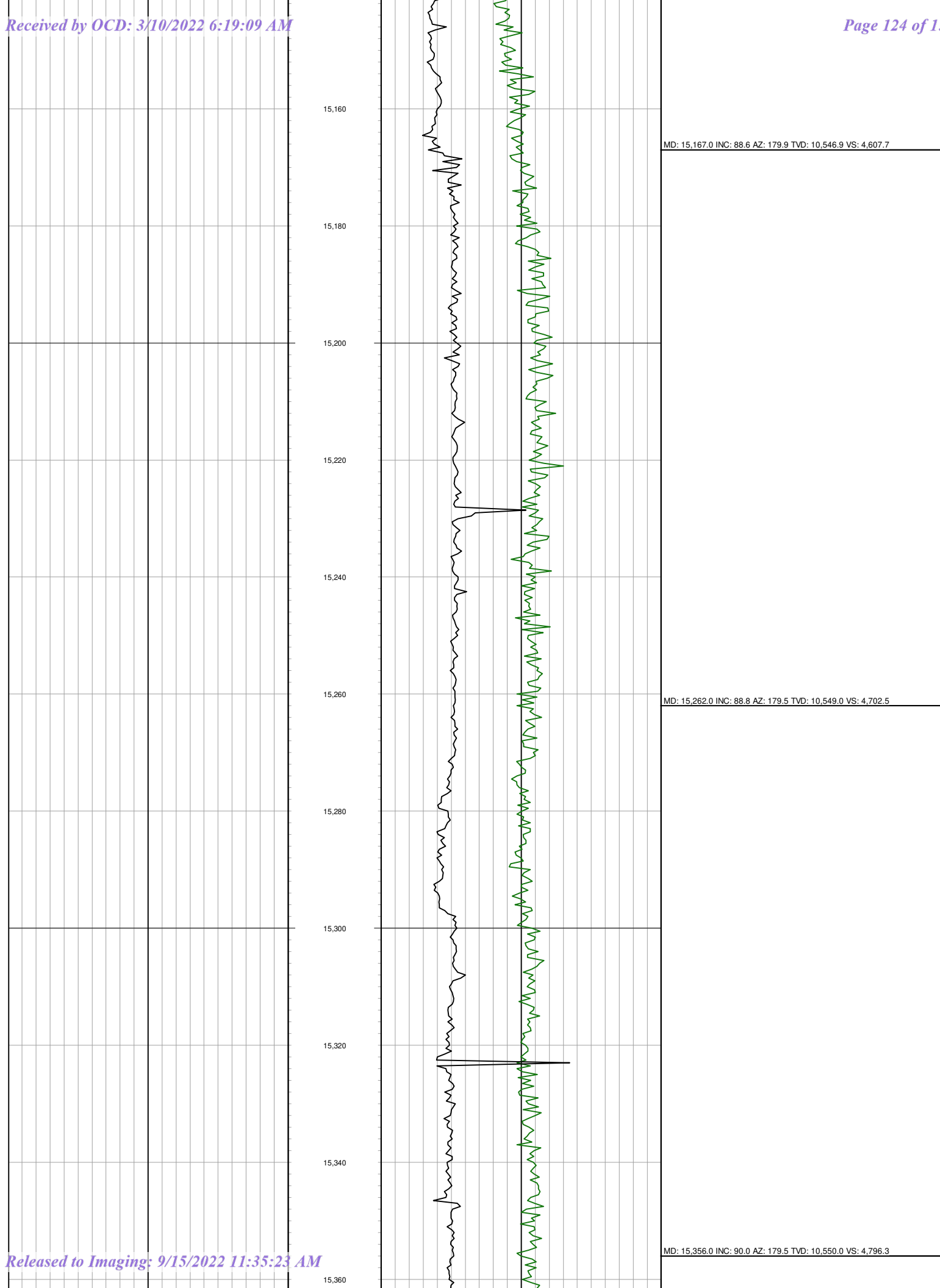


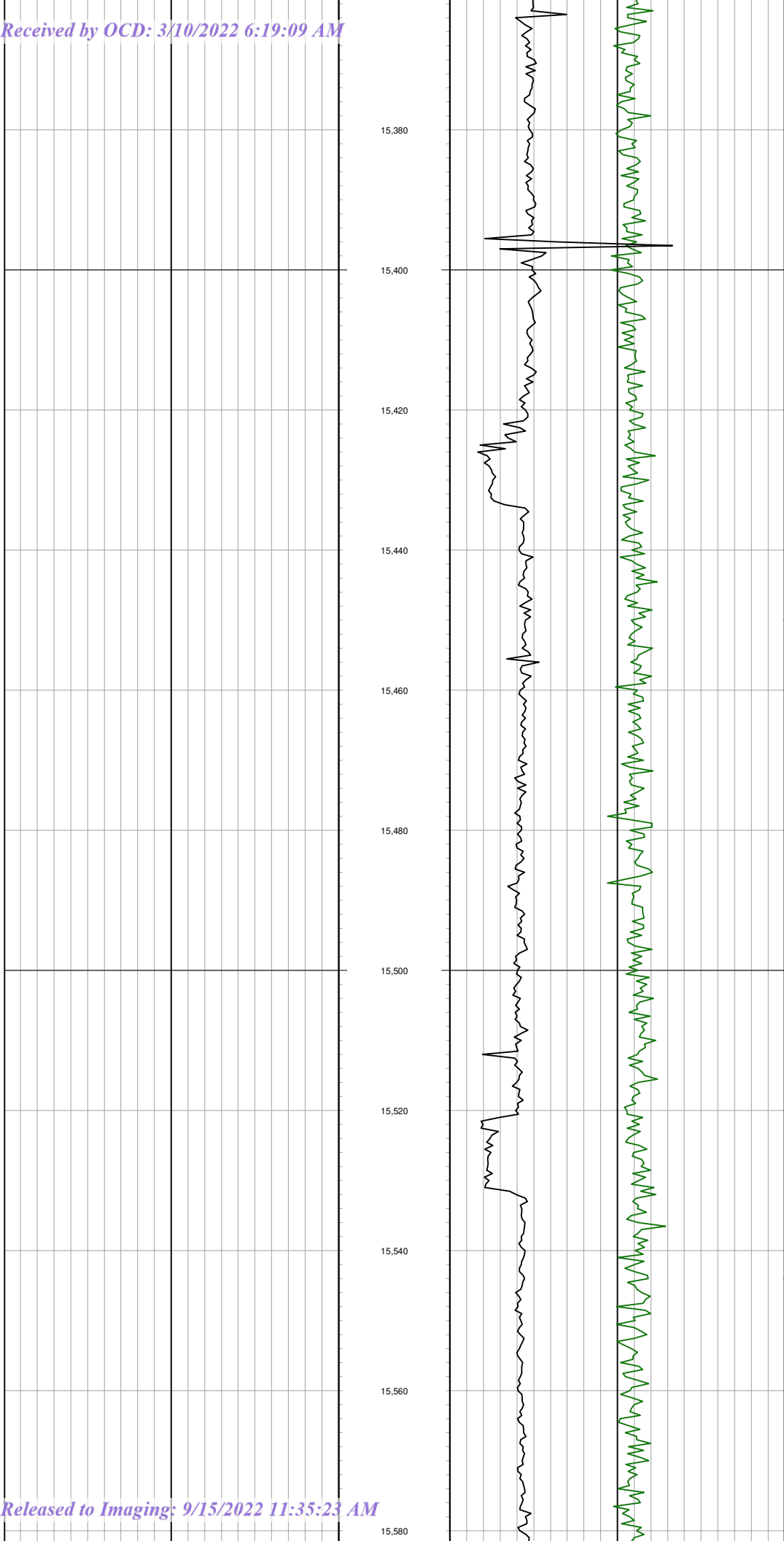


MD: 14,790.0 INC: 92.0 AZ: 179.5 TVD: 10,553.6 VS: 4,231.4

MD: 14,885.0 INC: 91.3 AZ: 180.0 TVD: 10,550.8 VS: 4,326.2

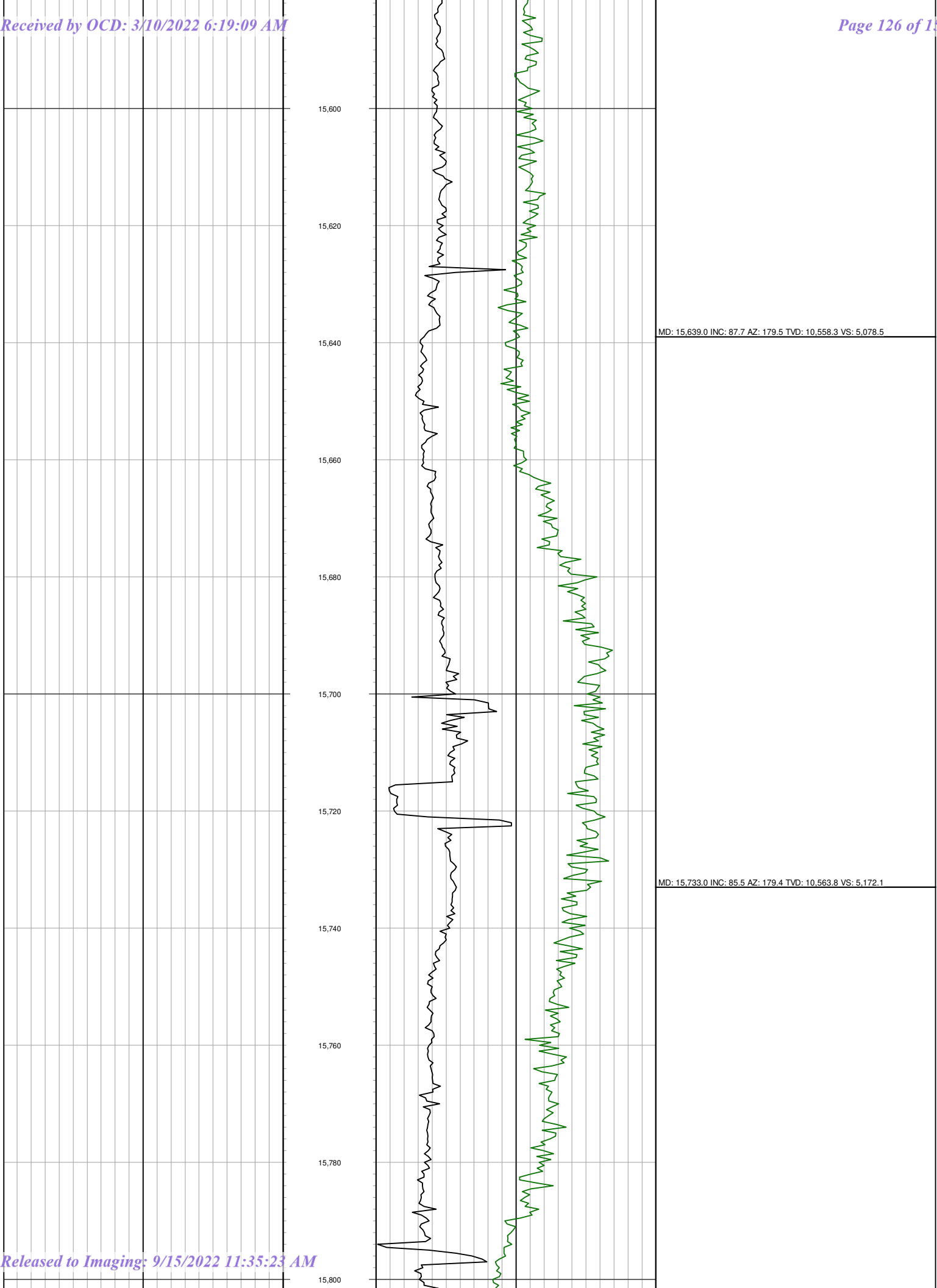


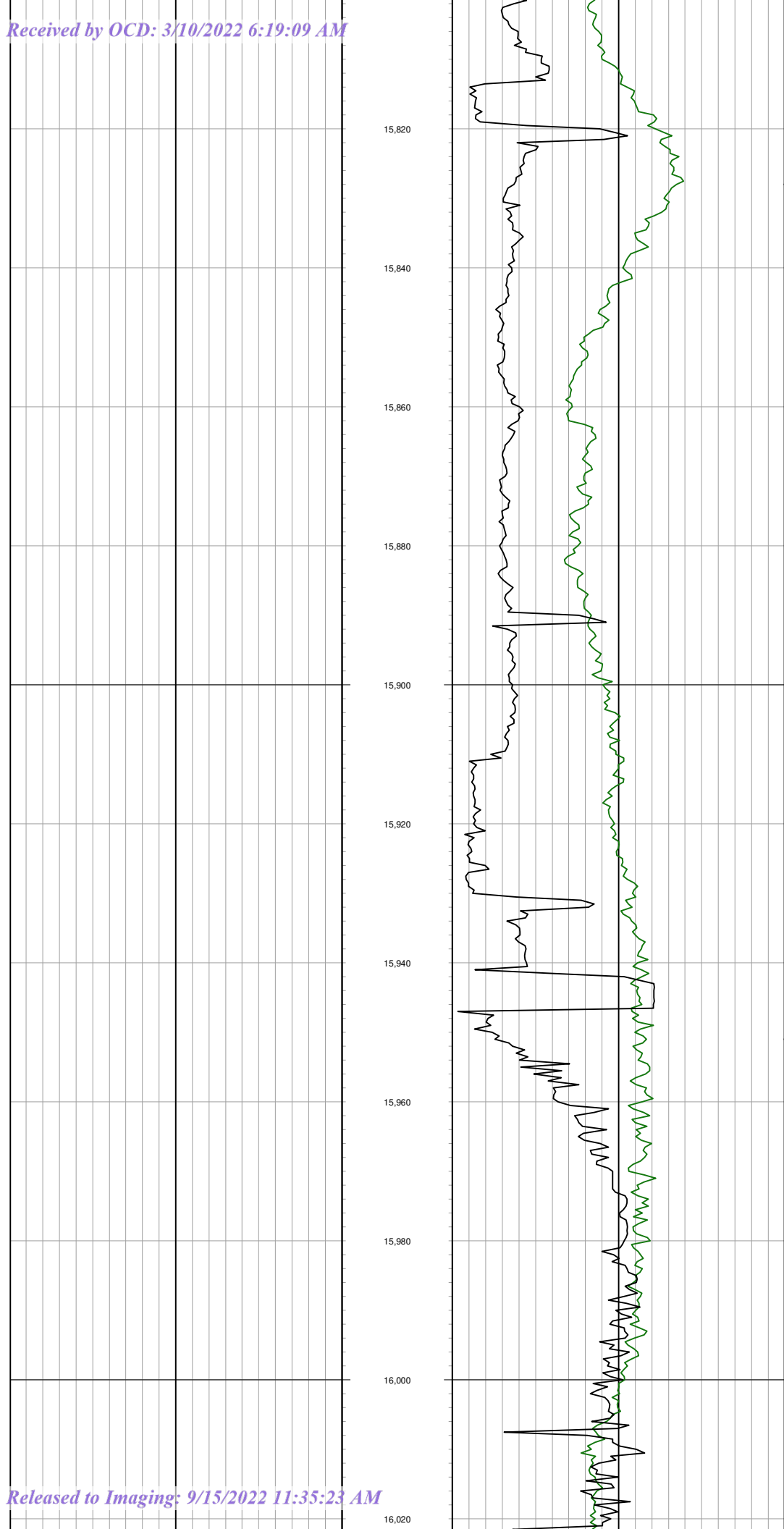




MD: 15,450.0 INC: 88.8 AZ: 179.6 TVD: 10,550.9 VS: 4,890.1

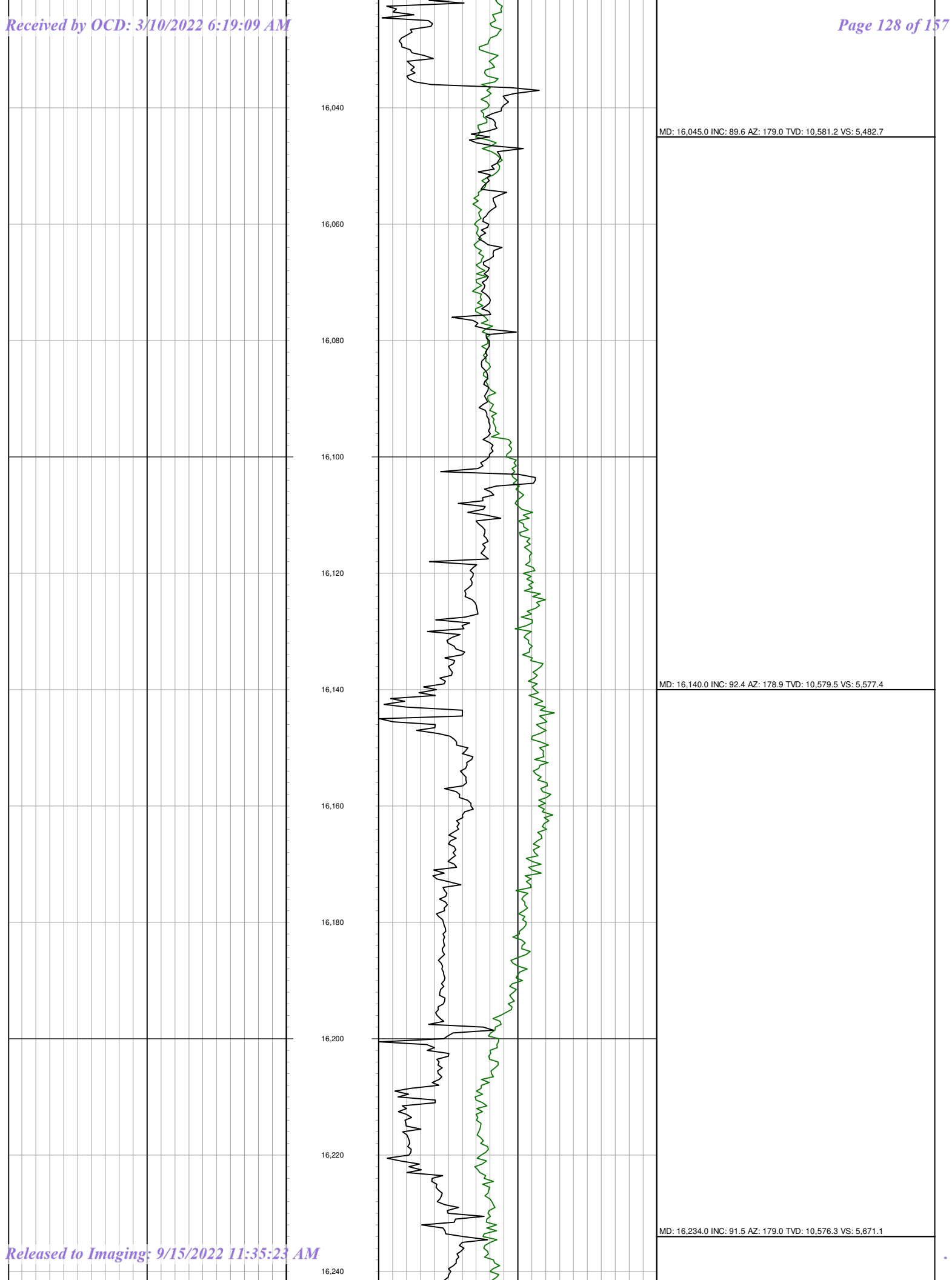
MD: 15,544.0 INC: 87.3 AZ: 179.5 TVD: 10,554.1 VS: 4,983.8



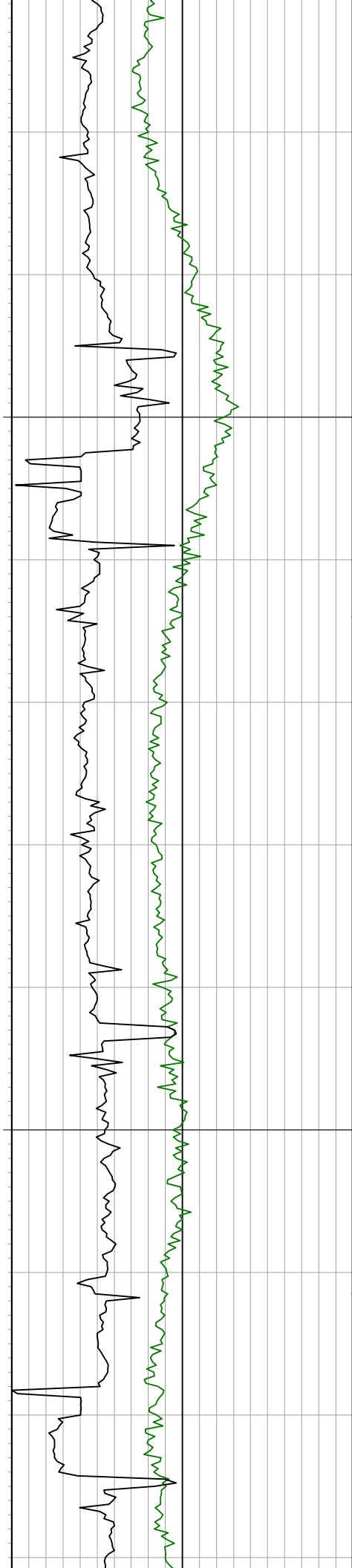


MD: 15.828.0 INC: 85.7 AZ: 179.1 TVD: 10.571.1 VS: 5.266.6

MD: 15.951.0 INC: 87.3 AZ: 178.9 TVD: 10.578.7 VS: 5.389.1

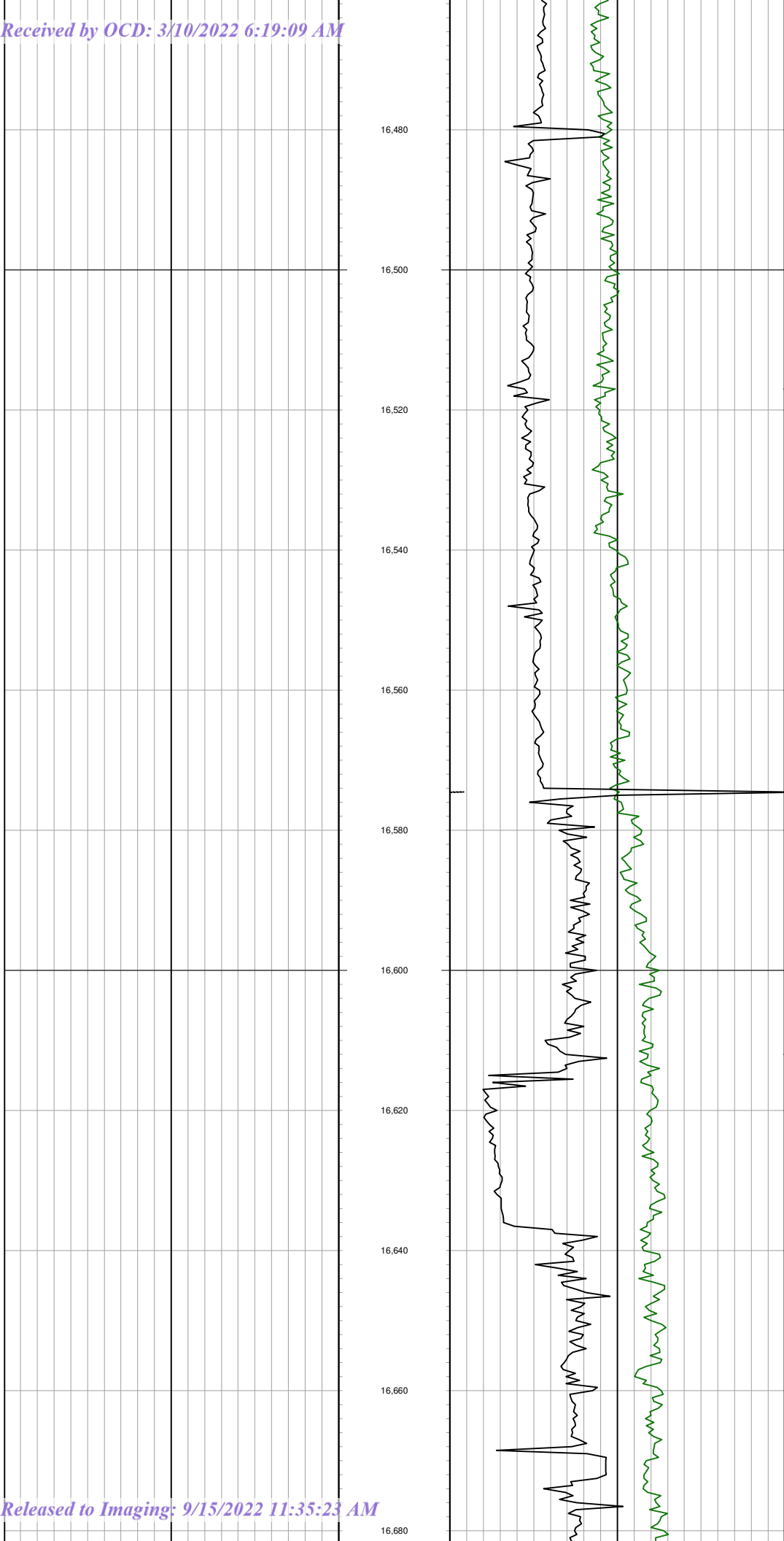


16,260
16,280
16,300
16,320
16,340
16,360
16,380
16,400
16,420
16,440
16,460



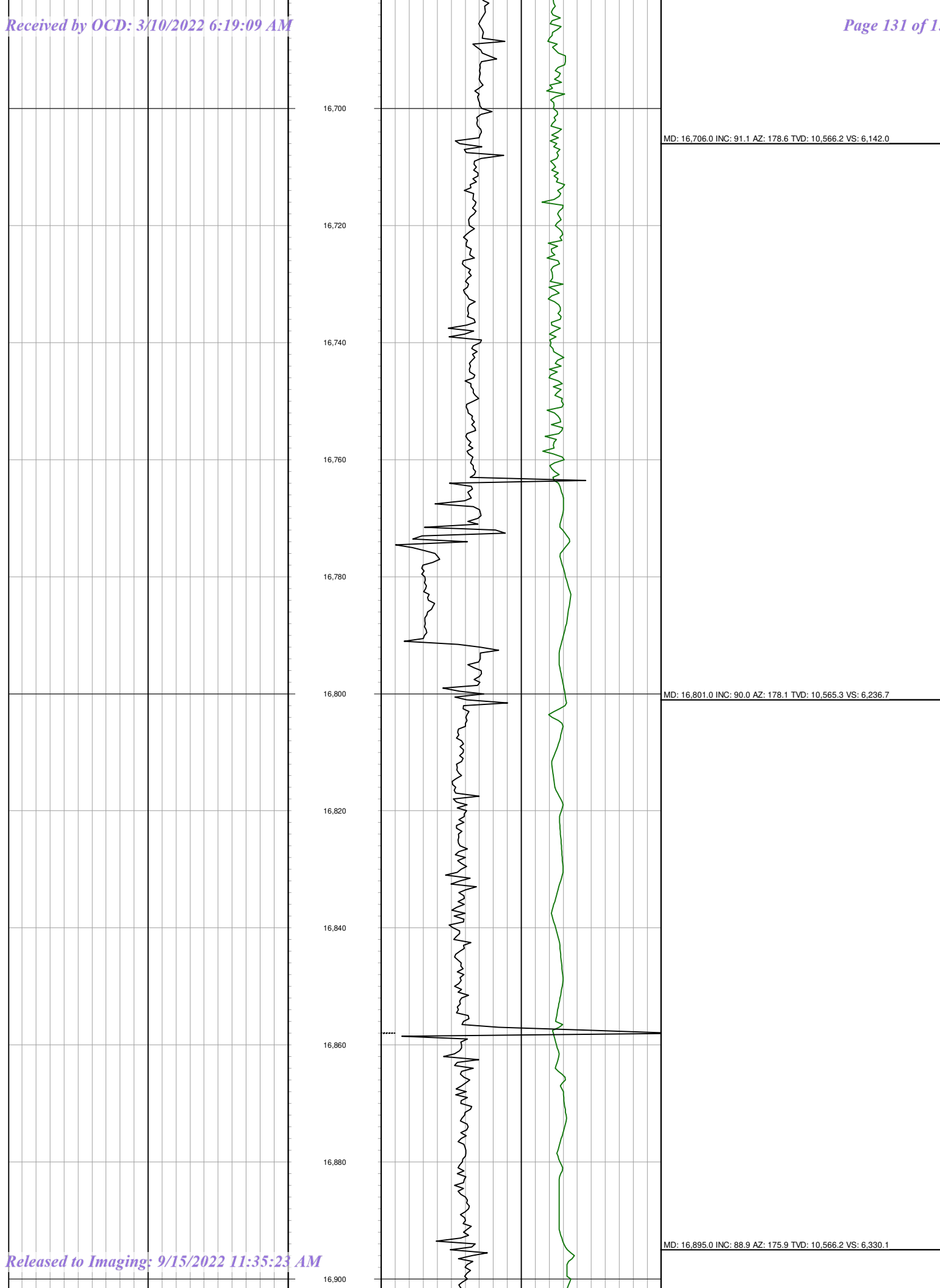
MD: 16.328.0 INC: 90.5 AZ: 179.5 TVD: 10,574.7 VS: 5,764.9

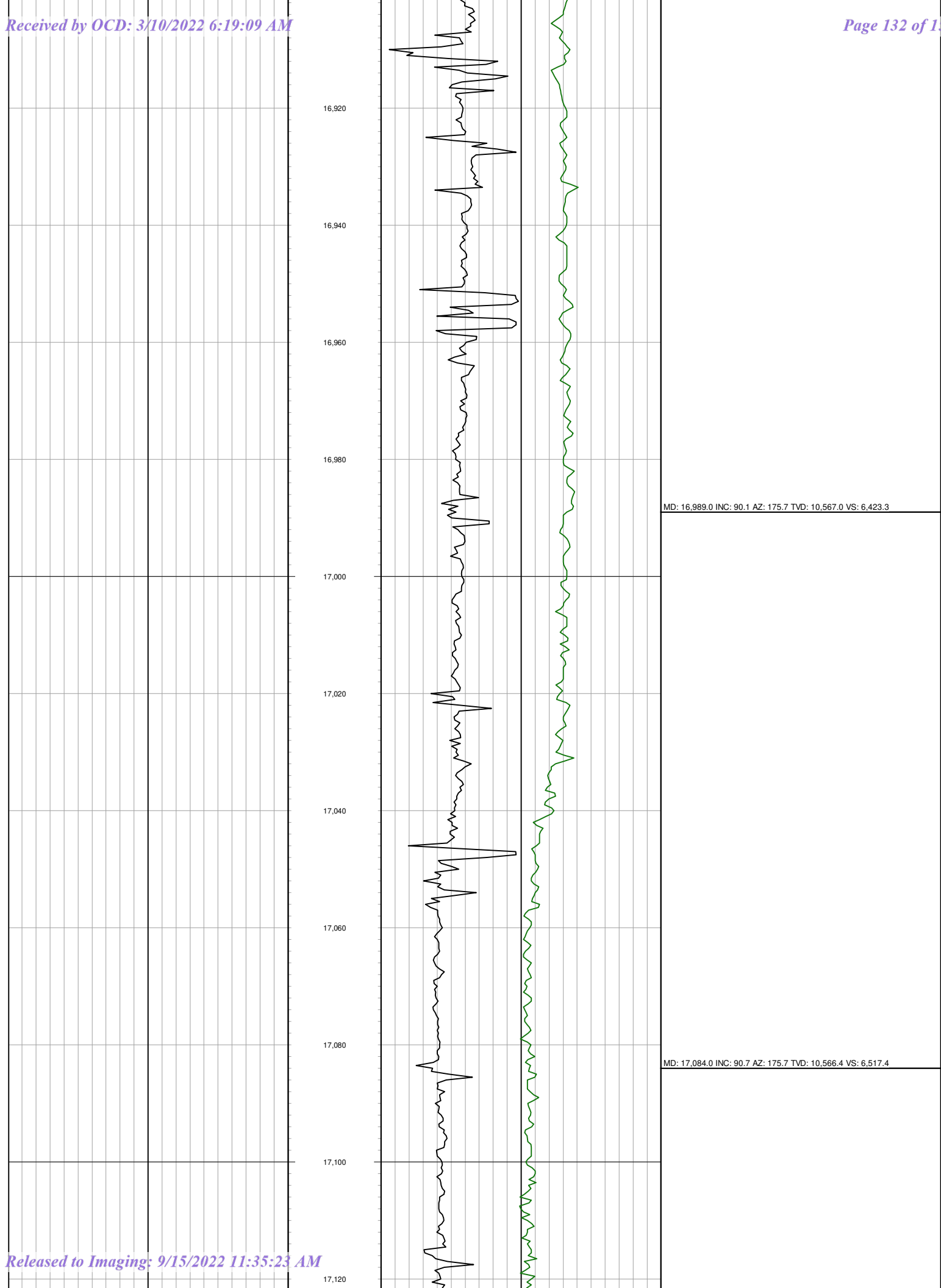
MD: 16.423.0 INC: 91.8 AZ: 179.4 TVD: 10,572.8 VS: 5,859.6

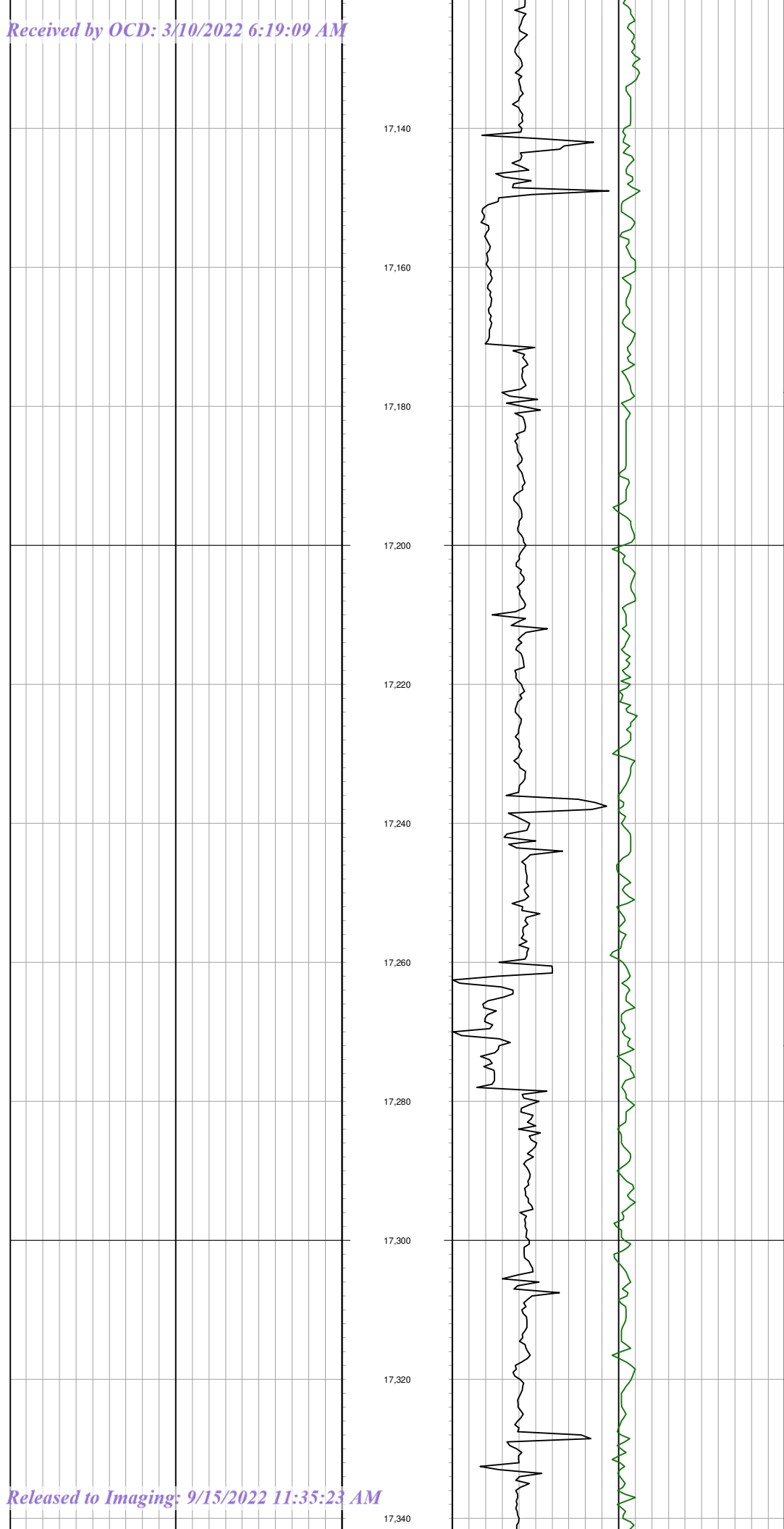


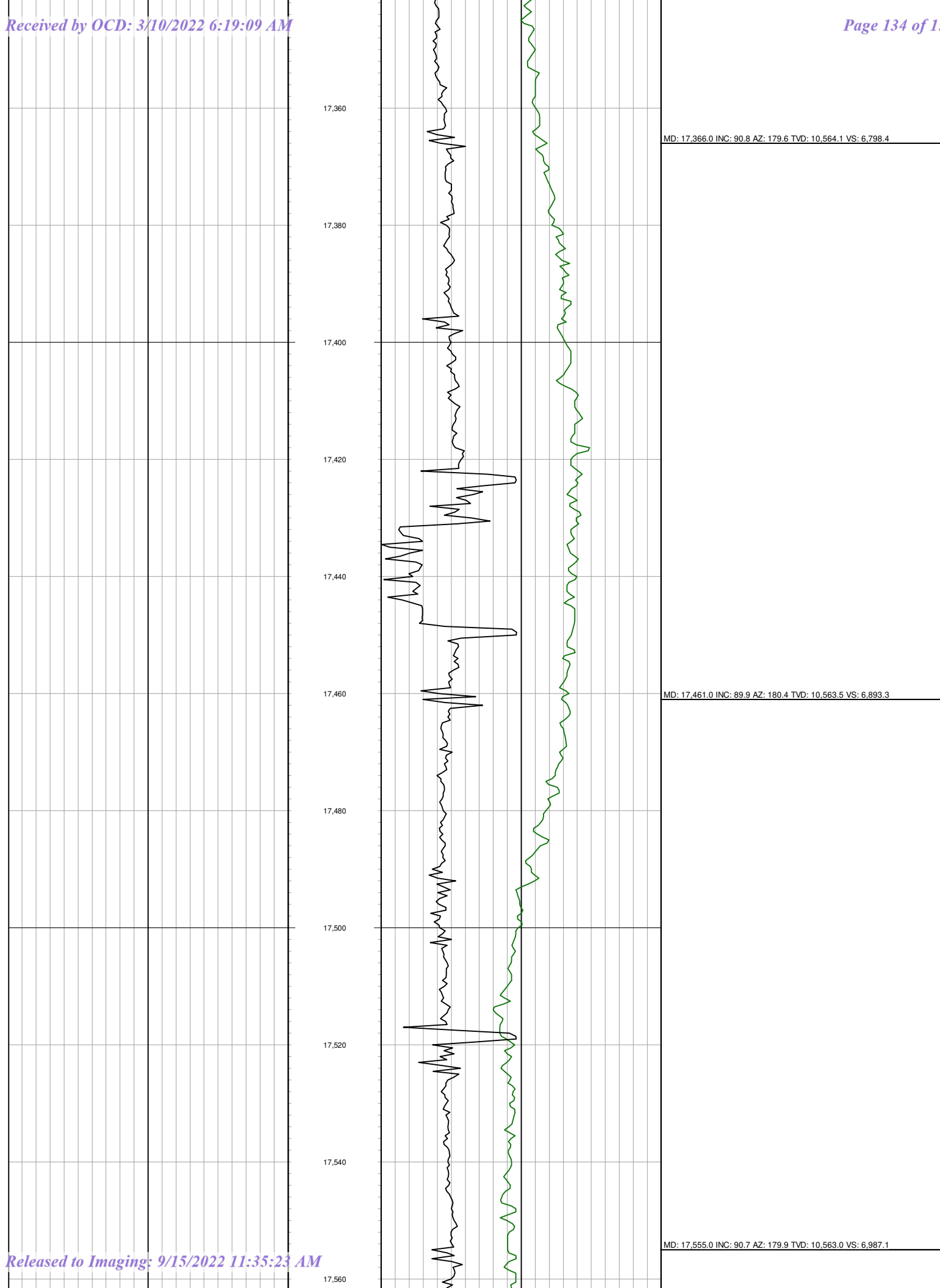
MD: 16,517.0 INC: 90.6 AZ: 180.4 TVD: 10,570.8 VS: 5,953.5

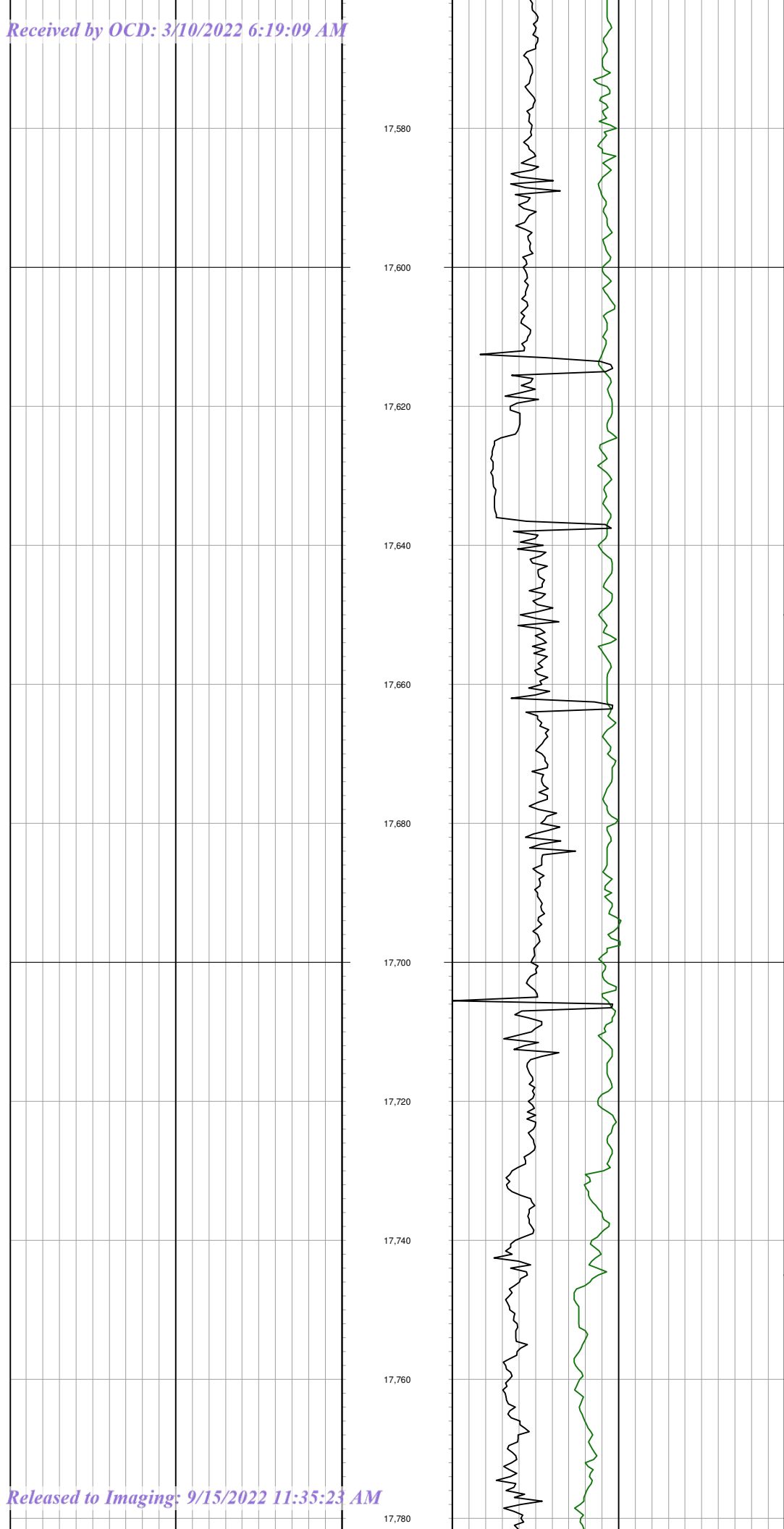
MD: 16,612.0 INC: 92.0 AZ: 180.0 TVD: 10,568.7 VS: 6,048.3





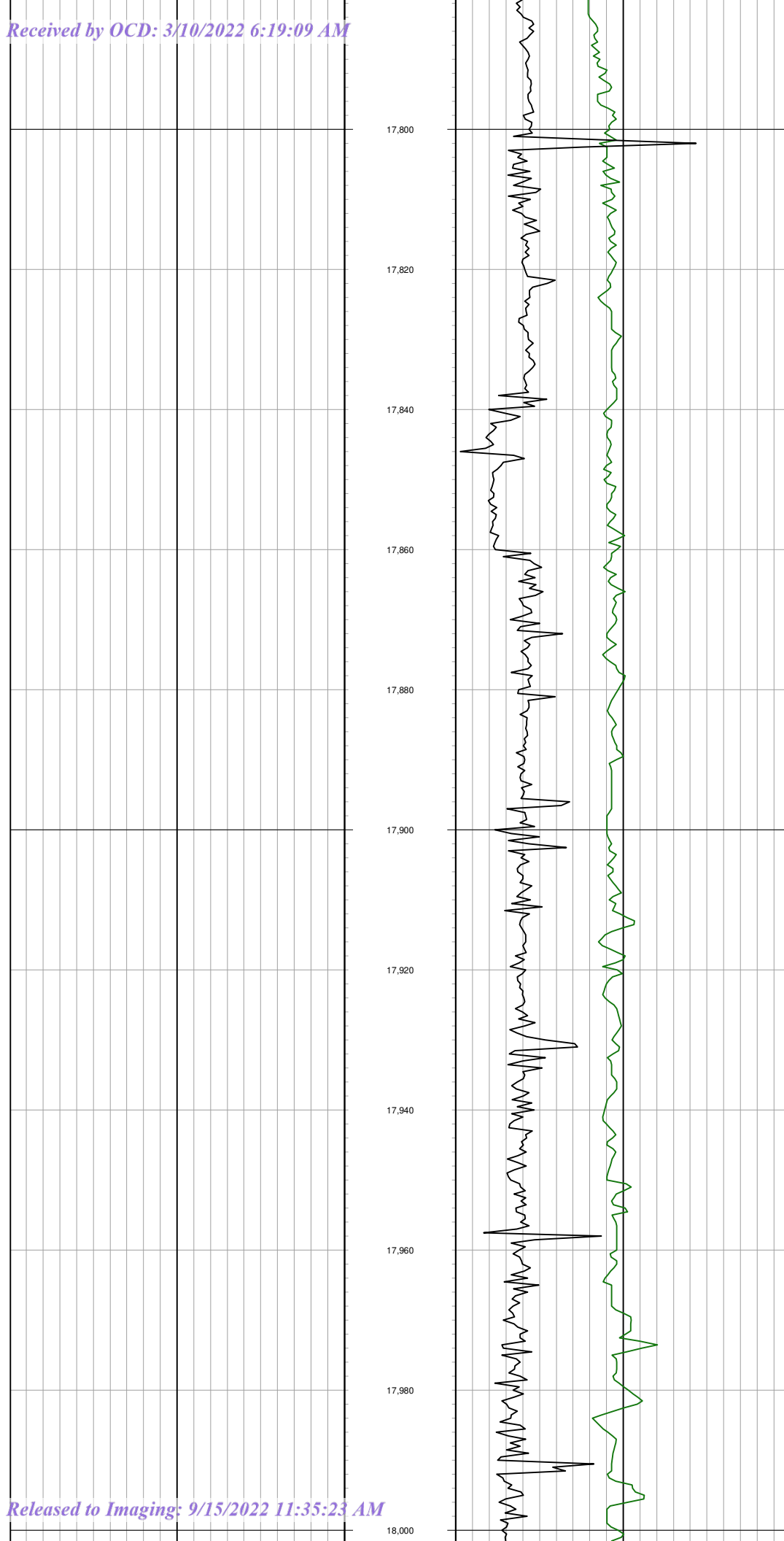






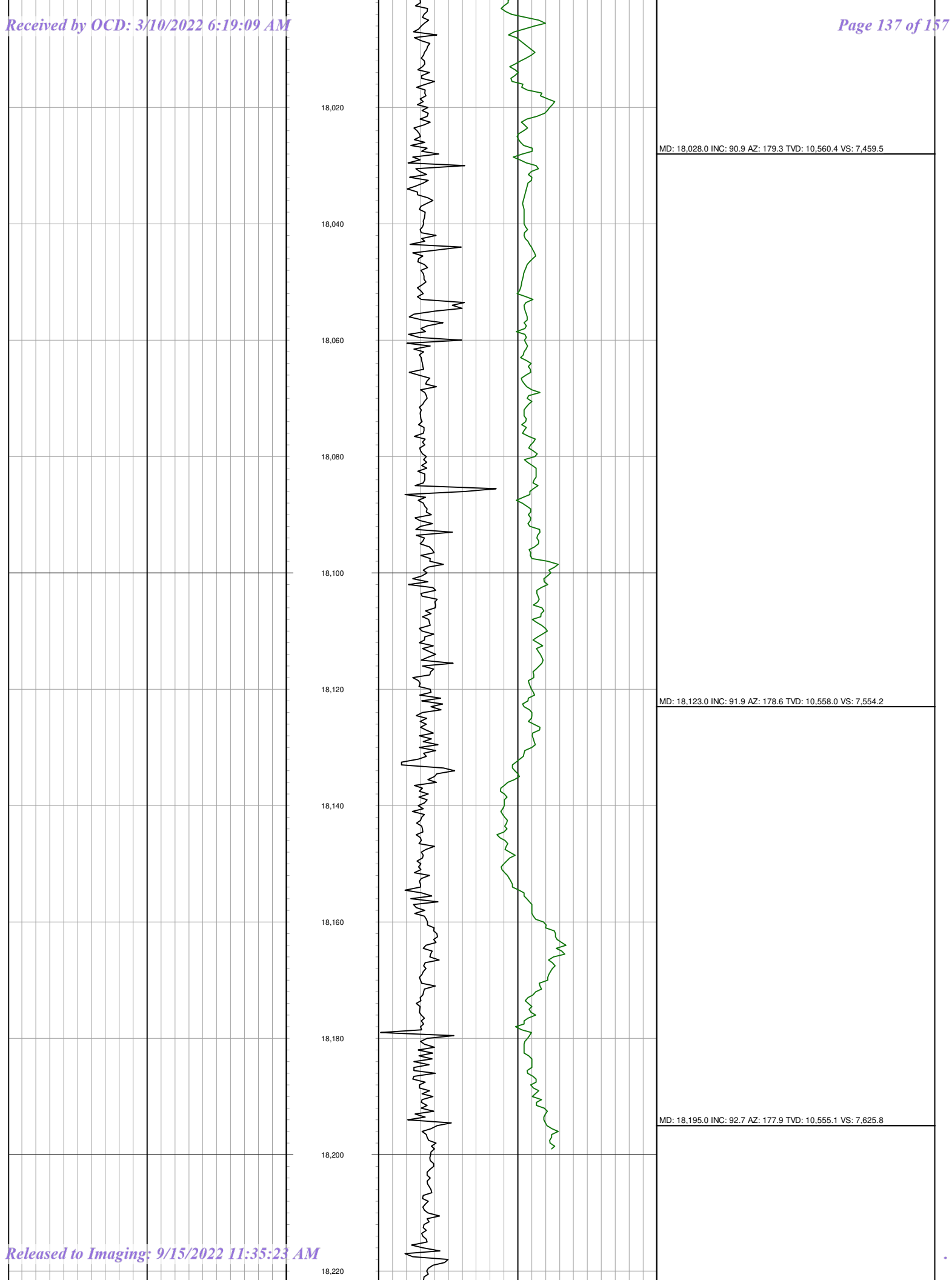
MD: 17,650.0 INC: 89.3 AZ: 181.5 TVD: 10,563.0 VS: 7,082.0

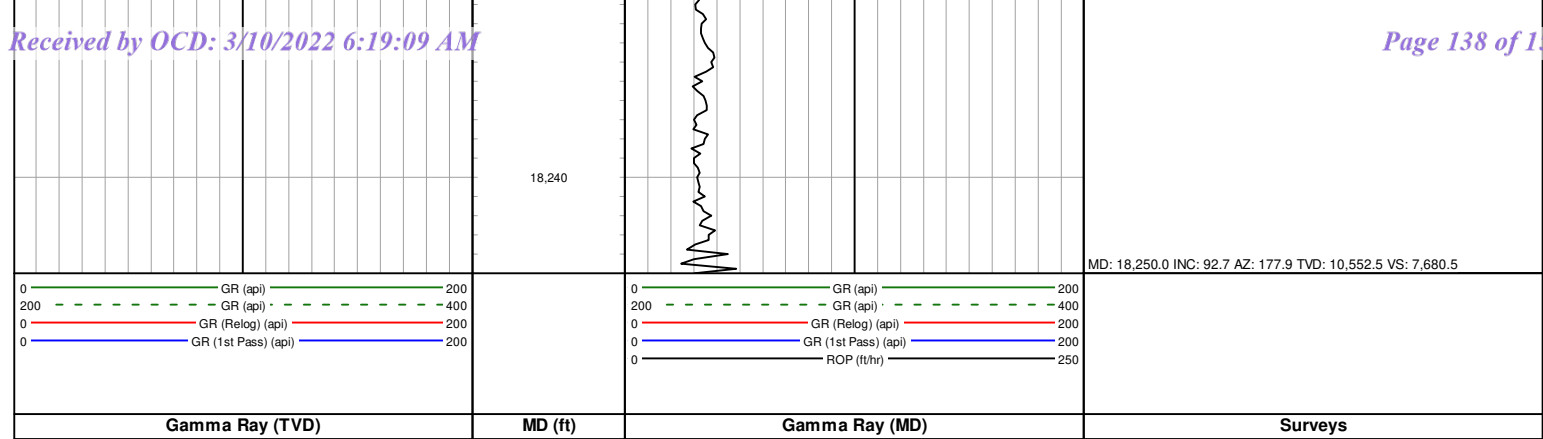
MD: 17,745.0 INC: 90.5 AZ: 180.7 TVD: 10,563.1 VS: 7,176.9

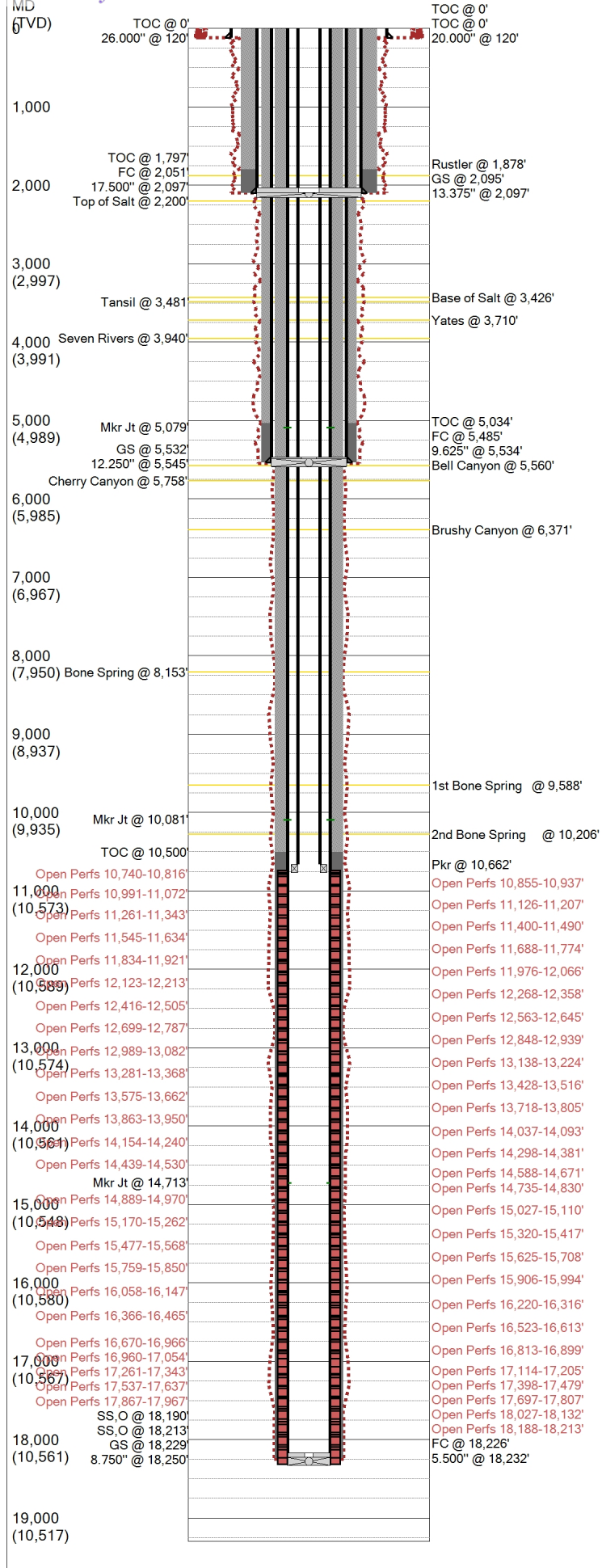


MD: 17,839.0 INC: 90.6 AZ: 180.4 TVD: 10,562.2 VS: 7,270.8

MD: 17,934.0 INC: 90.3 AZ: 179.9 TVD: 10,561.4 VS: 7,365.7







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Field Name			Lease Name			Well No.	
Laguna East			Talon 5-8 Federal			2H	
County			State			API No.	
Lea			New Mexico			3002547458	
Version		Version Tag					
1		Completed					
GL (ft)	KB (ft)	Section	Township/Block		Range/Survey		
3,693.0	3,716.0	5	20S		35E		
Operator		Well Status		Latitude		Longitude	
Caza Operating		Completed		32.60903605		-103.47562802	
Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line		Footage From		
205	FNL	1455	FEL		SECTION		
Prop Num			Spud Date		Comp. Date		
328897			6/10/2021		12/7/2021		
Additional Information							
From south Dal Paso street in Hobbs head west on US-180 towards county road 27-A for 23.6 miles. Turn left onto county road 27-A heading south for 1.9 miles. Turn left onto existing lease road heading east for 0.8 miles. Turn left heading north for 164 feet. Turn right onto access road to the pad heading east for 3 miles.							
OGRID		Pool Name and Code		Well Type		Dedicated Acres	
249099		WC-025 G-08 S203506D; Bone Spring (97983)		Hz, Oil			
Prepared By		Updated By			Last Updated		
Steve Morris		Steve Morris			1/3/2022 8:11 AM		
Hole Summary							
Date	Diam. (in)	Top (MD ft)	Bottom (MD ft)	Comments			
	26.000	0	120				
	17.500	120	2,097				
	12.250	2,097	5,545				
	8.750	5,545	18,250				
Tubular Summary							
Date	Description		O.D. (in)	Wt (lb/ft)	Grade	Top (MD ft)	Bottom (MD ft)
	Conductor Casing		20.000	94.00	H40	0	120
	Surface Casing		13.375	54.50	J55	0	2,097
	Intermediate Casing		9.625	40.00	HCL80	0	5,534
	Production Casing		5.500	23.00	P110	0	18,232
	Tubing		2.875	6.00	L80	0	10,662
Casing Cement Summary							
C	Date	No. Sx	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Comments	
		1,460	13.375	0	1,797	Circulate 424sx to surface	
		280	13.375	1,797	2,097		
		2,300	9.625	0	5,034	Circulate 250sx to surface	
		265	9.625	5,034	5,534		
		1,625	5.500	0	10,500	Circulate 576sx to surface	
		1,700	5.500	10,500	18,232		
Tools/Problems Summary							
Date	Tool Type		O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	
	FC		13.375	0.000	2,051	0	
	GS		13.375	0.000	2,095	0	
	Mkr Jt		5.500	0.000	5,079	5,100	

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Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)
	FC	9.625	0.000	5,485	0
	GS	9.625	0.000	5,532	0
	Mkr Jt	5.500	0.000	10,081	10,101
	Pkr	4.620	2.875	10,662	0
	Mkr Jt	5.500	0.000	14,713	14,734
	SS,O	5.500	0.000	18,190	18,192
	SS,O	5.500	0.000	18,213	18,215
	FC	5.500	0.000	18,226	0
	GS	5.500	0.000	18,229	0

Perforation Summary

C	Date	Perf. Status	Formation	OA Top (MD ft)	OA Bottom (MD ft)
	12/7/2021	Open	2nd Bone Spring	10740	10,816
	12/7/2021	Open	2nd Bone Spring	10855	10,937
	12/6/2021	Open	2nd Bone Spring	10991	11,072
	12/6/2021	Open	2nd Bone Spring	11126	11,207
	12/5/2021	Open	2nd Bone Spring	11261	11,343
	12/5/2021	Open	2nd Bone Spring	11400	11,490
	12/4/2021	Open	2nd Bone Spring	11545	11,634
	12/4/2021	Open	2nd Bone Spring	11688	11,774
	12/3/2021	Open	2nd Bone Spring	11834	11,921
	12/3/2021	Open	2nd Bone Spring	11976	12,066
	12/2/2021	Open	2nd Bone Spring	12123	12,213
	12/2/2021	Open	2nd Bone Spring	12268	12,358
	12/1/2021	Open	2nd Bone Spring	12416	12,505
	12/1/2021	Open	2nd Bone Spring	12563	12,645
	11/30/2021	Open	2nd Bone Spring	12699	12,787
	11/30/2021	Open	2nd Bone Spring	12848	12,939
	11/30/2021	Open	2nd Bone Spring	12989	13,082
	11/29/2021	Open	2nd Bone Spring	13138	13,224
	11/29/2021	Open	2nd Bone Spring	13281	13,368
	11/28/2021	Open	2nd Bone Spring	13428	13,516
	11/28/2021	Open	2nd Bone Spring	13575	13,662
	11/27/2021	Open	2nd Bone Spring	13718	13,805
	11/27/2021	Open	2nd Bone Spring	13863	13,950
	11/26/2021	Open	2nd Bone Spring	14037	14,093
	11/26/2021	Open	2nd Bone Spring	14154	14,240
	11/25/2021	Open	2nd Bone Spring	14298	14,381
	11/25/2021	Open	2nd Bone Spring	14439	14,530
	11/24/2021	Open	2nd Bone Spring	14588	14,671
	11/24/2021	Open	2nd Bone Spring	14735	14,830
	11/23/2021	Open	2nd Bone Spring	14889	14,970
	11/23/2021	Open	2nd Bone Spring	15027	15,110
	11/22/2021	Open	2nd Bone Spring	15170	15,262
	11/22/2021	Open	2nd Bone Spring	15320	15,417
	11/21/2021	Open	2nd Bone Spring	15477	15,568
	11/21/2021	Open	2nd Bone Spring	15625	15,708
	11/20/2021	Open	2nd Bone Spring	15759	15,850
	11/20/2021	Open	2nd Bone Spring	15906	15,994
	11/20/2021	Open	2nd Bone Spring	16058	16,147
	11/19/2021	Open	2nd Bone Spring	16220	16,316
	11/19/2021	Open	2nd Bone Spring	16366	16,465
	11/18/2021	Open	2nd Bone Spring	16523	16,613
	11/18/2021	Open	2nd Bone Spring	16670	16,966

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C	Date	Perf. Status	Formation	OA Top (MD ft)	OA Bottom (MD ft)
	11/17/2021	Open	2nd Bone Spring	16813	16,899
	11/16/2021	Open	2nd Bone Spring	16960	17,054
	11/16/2021	Open	2nd Bone Spring	17114	17,205
	11/14/2021	Open	2nd Bone Spring	17261	17,343
	11/14/2021	Open	2nd Bone Spring	17398	17,479
	11/14/2021	Open	2nd Bone Spring	17537	17,637
	11/13/2021	Open	2nd Bone Spring	17697	17,807
	11/13/2021	Open	2nd Bone Spring	17867	17,967
	11/12/2021	Open	2nd Bone Spring	18027	18,132
	11/11/2021	Open	2nd Bone Spring	18188	18,213

Formation Tops Summary

Formation	Top (TVD ft)	Comments
Rustler	1,878	
Top of Salt	2,200	
Base of Salt	3,426	
Tansil	3,481	
Yates	3,710	
Seven Rivers	3,940	
Bell Canyon	5,560	
Cherry Canyon	5,758	
Brushy Canyon	6,371	
Bone Spring	8,153	
1st Bone Spring	9,588	
2nd Bone Spring	10,206	

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Field Name		Lease Name		Well No.	County	State		API No.	
Laguna East		Talon 5-8 Federal		2H	Lea	New Mexico		3002547458	
Version	Version Tag				Spud Date		Comp. Date	GL (ft)	KB (ft)
1	Completed				6/10/2021		12/7/2021	3,693.0	3,716.0
Section	Township/Block	Range/Survey	Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From		
5	20S	35E	205	FNL	1,455	FEL	SECTION		
Operator			Well Status		Latitude		Longitude		Prop Num
Caza Operating			Completed		32.60903605		-103.47562802		328897
OGRID		Pool Name and Code		Well Type			Dedicated Acres		
249099		WC-025 G-08 S203506D; Bone Spring (97983)		Hz, Oil					
Last Updated		Prepared By			Updated By				
01/03/2022 8:11 AM		Steve Morris			Steve Morris				

Additional Information

From south Dal Paso street in Hobbs head west on US-180 towards county road 27-A for 23.6 miles. Turn left onto county road 27-A heading south for 1.9 miles. Turn left onto existing lease road heading east for 0.8 miles. Turn left heading north for 164 feet. Turn right onto access road to the pad heading east for 3 miles.

Hole Summary

Date	Diam. (in)	Top (MD ft)	Bottom (MD ft)	Comments
	26.000	0	120	
	17.500	120	2,097	
	12.250	2,097	5,545	
	8.750	5,545	18,250	

Tubular Summary

Date	Description	No. Jts	O.D. (in)	Wt (lb/ft)	Grade	Coupling	Top (MD ft)	Bottom (MD ft)	Comments
	Conductor Casing	3	20.000	94.00	H40		0	120	
	Surface Casing	50	13.375	54.50	J55	STC	0	2,097	
	Intermediate Casing	124	9.625	40.00	HCL80	BTC	0	5,534	
	Production Casing	440	5.500	23.00	P110	BTC VAR	0	18,232	
	Tubing		2.875	6.00	L80	EUE	0	10,662	

Casing Cement Summary

C	Date	No. Sx	Yield (ft3/sk)	Vol. (ft3)	Csg. O.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
		1,460	1.65	2,409	13.375	0	1,797	12.8ppg Class C 35/65 POZ + 5% CaCl2 + 6% Gel + 0.4% CPT-503P	Circulate 424sx to surface
		280	1.33	339	13.375	1,797	2,097	14.8ppg Class C	
		2,300	2.29	5,267	9.625	0	5,034	11.5ppg 50/50 POZ C	Circulate 250sx to surface
		265	1.33	352	9.625	5,034	5,534	14.8ppg Class C	
		1,625	2.23	3,624	5.500	0	10,500	11.5ppg 50/50 POZ H	Circulate 576sx to surface
		1,700	1.42	2,414	5.500	10,500	18,232	13.2ppg 35/65 POZ H	

Tools/Problems Summary

Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
	Float Collar	13.375	0.000	2,051	0		
	Guide Shoe	13.375	0.000	2,095	0		
	Marker Joint	5.500	0.000	5,079	5,100		
	Float Collar	9.625	0.000	5,485	0		
	Guide Shoe	9.625	0.000	5,532	0		
	Marker Joint	5.500	0.000	10,081	10,101		
	Packer	4.620	2.875	10,662	0		
	Marker Joint	5.500	0.000	14,713	14,734		
	Sliding Sleeve (open)	5.500	0.000	18,190	18,192	Gryphon Toe Sleeve	
	Sliding Sleeve (open)	5.500	0.000	18,213	18,215	Gryphon Toe Sleeve	
	Float Collar	5.500	0.000	18,226	0		

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Date	Tool Type	O.D. (in)	I.D. (in)	Top (MD ft)	Bottom (MD ft)	Description	Comments
	Guide Shoe	5.500	0.000	18,229	0		
Perforation Summary							
C	Date	Perf. Status	Formation	Closed Date	Comments		
	11/11/2021	Open	2nd Bone Spring		Stage 1 - Slurry 8406bbls 438,660lbs sand		
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments		
18212	18,213	6	6	60			
18188	18,189	6	6	60			
C	Date	Perf. Status	Formation	Closed Date	Comments		
	11/12/2021	Open	2nd Bone Spring		Stage 2 - Slurry 8452bbls 439,020lbs sand		
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments		
18131	18,132	10	10	60			
18096	18,097	10	10	60			
18060	18,061	10	10	60			
18027	18,028	10	10	60			
C	Date	Perf. Status	Formation	Closed Date	Comments		
	11/13/2021	Open	2nd Bone Spring		Stage 4 - Slurry 7560bbls 439,840lbs sand		
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments		
17806	17,807	10	10	60			
17768	17,769	10	10	60			
17735	17,736	10	10	60			
17697	17,698	10	10	60			
C	Date	Perf. Status	Formation	Closed Date	Comments		
	11/13/2021	Open	2nd Bone Spring		Stage 3 - Slurry 8286bbls 439,150lbs sand		
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments		
17966	17,967	10	10	60			
17933	17,934	10	10	60			
17900	17,901	10	10	60			
17867	17,868	10	10	60			
C	Date	Perf. Status	Formation	Closed Date	Comments		
	11/14/2021	Open	2nd Bone Spring		Stage 7 - Slurry 7464bbls 439,320lbs sand		
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments		
17342	17,343	10	10	60			
17315	17,316	10	10	60			
17287	17,288	10	10	60			
17261	17,262	10	10	60			
C	Date	Perf. Status	Formation	Closed Date	Comments		
	11/14/2021	Open	2nd Bone Spring		Stage 6 - Slurry 7601bbls 439,150lbs sand		
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments		
17478	17,479	10	10	60			
17453	17,454	10	10	60			
17426	17,427	10	10	60			
17398	17,399	10	10	60			
C	Date	Perf. Status	Formation	Closed Date	Comments		
	11/14/2021	Open	2nd Bone Spring		Stage 5 - Slurry 7856bbls 439,590lbs sand		
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments		
17636	17,637	10	10	60			
17603	17,604	10	10	60			
17570	17,571	10	10	60			
17537	17,538	10	10	60			
C	Date	Perf. Status	Formation	Closed Date	Comments		

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C	Date	Perf. Status	Formation	Closed Date	Comments	
	11/16/2021	Open	2nd Bone Spring		Stage 9 - Slurry 6971bbls 437,500lbs sand	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	17053	17,054	10	10	60	
	17022	17,023	10	10	60	
	16990	16,991	10	10	60	
	16960	16,961	10	10	60	
C	Date	Perf. Status	Formation	Closed Date	Comments	
	11/16/2021	Open	2nd Bone Spring		Stage 8 - Slurry 7735bbls 439,150lbs sand	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	17204	17,205	10	10	60	
	17175	17,176	10	10	60	
	17145	17,146	10	10	60	
	17114	17,115	10	10	60	
C	Date	Perf. Status	Formation	Closed Date	Comments	
	11/17/2021	Open	2nd Bone Spring		Stage 10 - 8825bbls 439,040lbs sand	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	16900	16,899	10	10	60	
	16873	16,872	10	10	60	
	16842	16,841	10	10	60	
	16813	16,812	10	10	60	
C	Date	Perf. Status	Formation	Closed Date	Comments	
	11/18/2021	Open	2nd Bone Spring		Stage 12 - 7639bbls 439,360lbs sand	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	16614	16,613	10	10	60	
	16582	16,581	10	10	60	
	16554	16,553	10	10	60	
	16523	16,522	10	10	60	
C	Date	Perf. Status	Formation	Closed Date	Comments	
	11/18/2021	Open	2nd Bone Spring		Stage 11 - 7386bbls 439,150lbs sand	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	16755	16,754	10	10	60	
	16726	16,725	10	10	60	
	16967	16,966	10	10	60	
	16670	16,669	10	10	60	
C	Date	Perf. Status	Formation	Closed Date	Comments	
	11/19/2021	Open	2nd Bone Spring		Stage 14 - 7163bbls 440,080lbs sand	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	16317	16,316	10	10	60	
	16283	16,282	10	10	60	
	16253	16,252	10	10	60	
	16220	16,219	10	10	60	
C	Date	Perf. Status	Formation	Closed Date	Comments	
	11/19/2021	Open	2nd Bone Spring		Stage 13 - 7396bbls 439,150lbs sand	
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	16466	16,465	10	10	60	
	16436	16,435	10	10	60	
	16407	16,406	10	10	60	
	16366	16,365	10	10	60	
C	Date	Perf. Status	Formation	Closed Date	Comments	
	11/20/2021	Open	2nd Bone Spring		Stage 17 - 7276bbls 439,130lbs sand	

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C	Date	Perf. Status	Formation	Closed Date	Comments
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
15851	15,850	10	10	60	
15822	15,821	10	10	60	
15792	15,791	10	10	60	
15759	15,758	10	10	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
11/20/2021	Open	2nd Bone Spring			Stage 16 - 7057bbls 439,520lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
15995	15,994	10	10	60	
15966	15,965	10	10	60	
15941	15,940	10	10	60	
15906	15,905	10	10	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
11/20/2021	Open	2nd Bone Spring			Stage 15 - 7448bbls 444,560lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
16148	16,147	10	10	60	
16123	16,122	10	10	60	
16090	16,089	10	10	60	
16058	16,057	10	10	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
11/21/2021	Open	2nd Bone Spring			Stage 19 - 7268bbls 438,570lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
15569	15,568	10	10	60	
15539	15,538	10	10	60	
15509	15,508	10	10	60	
15477	15,476	10	10	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
11/21/2021	Open	2nd Bone Spring			Stage 18 - 7030bbls 439,560lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
15709	15,708	10	10	60	
15682	15,681	10	10	60	
15653	15,652	10	10	60	
15625	15,624	10	10	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
11/22/2021	Open	2nd Bone Spring			Stage 21 - 7266bbls 439,160lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
15263	15,262	10	10	60	
15231	15,230	10	10	60	
15201	15,200	10	10	60	
15170	15,169	10	10	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
11/22/2021	Open	2nd Bone Spring			Stage 20 - 7240bbls 440,050lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
15418	15,417	10	10	60	
15389	15,388	10	10	60	
15362	15,361	10	10	60	
15320	15,319	10	10	60	
C	Date	Perf. Status	Formation	Closed Date	Comments
11/23/2021	Open	2nd Bone Spring			Stage 23 - 7010bbls 438,150lbs sand
Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments

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C	Date	Perf. Status	Formation		Closed Date	Comments
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
14971		14,970	10	10	60	
14944		14,943	10	10	60	
14914		14,913	10	10	60	
14889		14,888	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	11/23/2021	Open	2nd Bone Spring			Stage 22 - 7049bbbls 439,150lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
15111		15,110	10	10	60	
15083		15,082	10	10	60	
15055		15,054	10	10	60	
15027		15,026	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	11/24/2021	Open	2nd Bone Spring			Stage 25 - 7154bbbls 439,150lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
14672		14,671	10	10	60	
14646		14,645	10	10	60	
14616		14,615	10	10	60	
14588		14,587	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	11/24/2021	Open	2nd Bone Spring			Stage 24 - 7124bbbls 439,750lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
14831		14,830	10	10	60	
14797		14,796	10	10	60	
14760		14,759	10	10	60	
14735		14,734	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	11/25/2021	Open	2nd Bone Spring			Stage 27 - 7261bbbls 439,130lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
14382		14,381	10	10	60	
14356		14,355	10	10	60	
14327		14,326	10	10	60	
14298		14,297	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	11/25/2021	Open	2nd Bone Spring			Stage 26 - 7493bbbls 440,670lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
14531		14,530	10	10	60	
14504		14,503	10	10	60	
14473		14,472	10	10	60	
14439		14,438	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	11/26/2021	Open	2nd Bone Spring			Stage 29 - 7197bbbls 439,650lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
14094		14,093	10	10	60	
14066		14,065	10	10	60	
14037		14,036	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	11/26/2021	Open	2nd Bone Spring			Stage 28 - 7154bbbls 441,140lbs sand
Top (MD ft)		Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
14241		14,240	10	10	60	

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C	Date	Perf. Status	Formation		Closed Date	Comments
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	14212	14,211	10	10	60	
	14180	14,179	10	10	60	
	14154	14,153	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	11/27/2021	Open	2nd Bone Spring			Stage 31 - 7028bbbls 439,820lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13804	13,805	10	10	60	
	13776	13,777	10	10	60	
	13747	13,748	10	10	60	
	13718	13,719	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	11/27/2021	Open	2nd Bone Spring			Stage 30 - 7326bbbls 459,840lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13951	13,950	10	10	60	
	13921	13,920	10	10	60	
	13889	13,888	10	10	60	
	13863	13,862	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	11/28/2021	Open	2nd Bone Spring			Stage 33 - 7100bbbls 438,600lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13515	13,516	10	10	60	
	13486	13,487	10	10	60	
	13457	13,458	10	10	60	
	13428	13,429	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	11/28/2021	Open	2nd Bone Spring			Stage 32 - 7028bbbls 440,020lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13661	13,662	10	10	60	
	13631	13,632	10	10	60	
	13608	13,609	10	10	60	
	13575	13,576	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	11/29/2021	Open	2nd Bone Spring			Stage 35 - 6993bbbls 439,780lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13223	13,224	10	10	60	
	13195	13,196	10	10	60	
	13166	13,167	10	10	60	
	13138	13,139	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	11/29/2021	Open	2nd Bone Spring			Stage 34 - 7275bbbls 439,160lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13367	13,368	10	10	60	
	13341	13,342	10	10	60	
	13312	13,313	10	10	60	
	13281	13,282	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	11/30/2021	Open	2nd Bone Spring			Stage 38 - 7133bbbls 439,150lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12786	12,787	10	10	60	

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C	Date	Perf. Status	Formation		Closed Date	Comments
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12761	12,762	10	10	60	
	12730	12,731	10	10	60	
	12699	12,700	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	11/30/2021	Open	2nd Bone Spring			Stage 37 - 7297bbbls 438,400lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12938	12,939	10	10	60	
	12903	12,904	10	10	60	
	12877	12,878	10	10	60	
	12848	12,849	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	11/30/2021	Open	2nd Bone Spring			Stage 36 - 7181bbbls 439,150lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	13081	13,082	10	10	60	
	13047	13,048	10	10	60	
	13019	13,020	10	10	60	
	12989	12,990	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	12/1/2021	Open	2nd Bone Spring			Stage 40 - 7353bbbls 439,320lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12504	12,505	10	10	60	
	12474	12,475	10	10	60	
	12444	12,445	10	10	60	
	12416	12,417	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	12/1/2021	Open	2nd Bone Spring			Stage 39 - 7936bbbls 439,300lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12644	12,645	10	10	60	
	12618	12,619	10	10	60	
	12588	12,589	10	10	60	
	12563	12,564	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	12/2/2021	Open	2nd Bone Spring			Stage 42 - 7107bbbls 440,000lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12212	12,213	10	10	60	
	12180	12,181	10	10	60	
	12152	12,153	10	10	60	
	12123	12,124	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	12/2/2021	Open	2nd Bone Spring			Stage 41 - 7189bbbls 439,275lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12357	12,358	10	10	60	
	12321	12,322	10	10	60	
	12295	12,296	10	10	60	
	12268	12,269	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	12/3/2021	Open	2nd Bone Spring			Stage 44 - 7145bbbls 439,000lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11920	11,921	10	10	60	

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C	Date	Perf. Status	Formation		Closed Date	Comments
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11894	11,895	10	10	60	
	11865	11,866	10	10	60	
	11834	11,835	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	12/3/2021	Open	2nd Bone Spring			Stage 43 - 7036bbbls 439,335lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	12065	12,066	10	10	60	
	12038	12,039	10	10	60	
	12007	12,008	10	10	60	
	11976	11,977	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	12/4/2021	Open	2nd Bone Spring			Stage 46 - 6981bbbls 439,000lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11633	11,634	10	10	60	
	11604	11,605	10	10	60	
	11575	11,576	10	10	60	
	11545	11,546	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	12/4/2021	Open	2nd Bone Spring			Stage 45 - 7066bbbls 439,670lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11773	11,774	10	10	60	
	11746	11,747	10	10	60	
	11717	11,718	10	10	60	
	11688	11,689	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	12/5/2021	Open	2nd Bone Spring			Stage 48 - 7142bbbls 439,240lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11342	11,343	10	10	60	
	11312	11,313	10	10	60	
	11286	11,287	10	10	60	
	11261	11,262	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	12/5/2021	Open	2nd Bone Spring			Stage 47 - 7175bbbls 438,800lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11489	11,490	10	10	60	
	11456	11,457	10	10	60	
	11431	11,432	10	10	60	
	11400	11,401	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	12/6/2021	Open	2nd Bone Spring			Stage 50 - 7076bbbls 439,340lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11071	11,072	10	10	60	
	11044	11,045	10	10	60	
	11018	11,019	10	10	60	
	10991	10,992	10	10	60	
C	Date	Perf. Status	Formation		Closed Date	Comments
	12/6/2021	Open	2nd Bone Spring			Stage 49 - 7064bbbls 439,250lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11206	11,207	10	10	60	

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C	Date	Perf. Status	Formation		Closed Date	Comments
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	11180	11,181	10	10	60	
	11155	11,156	10	10	60	
	11126	11,127	10	10	60	

C	Date	Perf. Status	Formation		Closed Date	Comments
	12/7/2021	Open	2nd Bone Spring			Stage 52 - 6877bbbls 438,410lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10815	10,816	10	10	60	
	10790	10,791	10	10	60	
	10766	10,767	10	10	60	
	10740	10,741	10	10	60	

C	Date	Perf. Status	Formation		Closed Date	Comments
	12/7/2021	Open	2nd Bone Spring			Stage 51 - 7317bbbls 437,870lbs sand
	Top (MD ft)	Bottom (MD ft)	SPF	Shots	Phasing (deg)	Interval Comments
	10936	10,937	10	10	60	
	10909	10,910	10	10	60	
	10882	10,883	10	10	60	
	10855	10,856	10	10	60	

Formation Top Summary

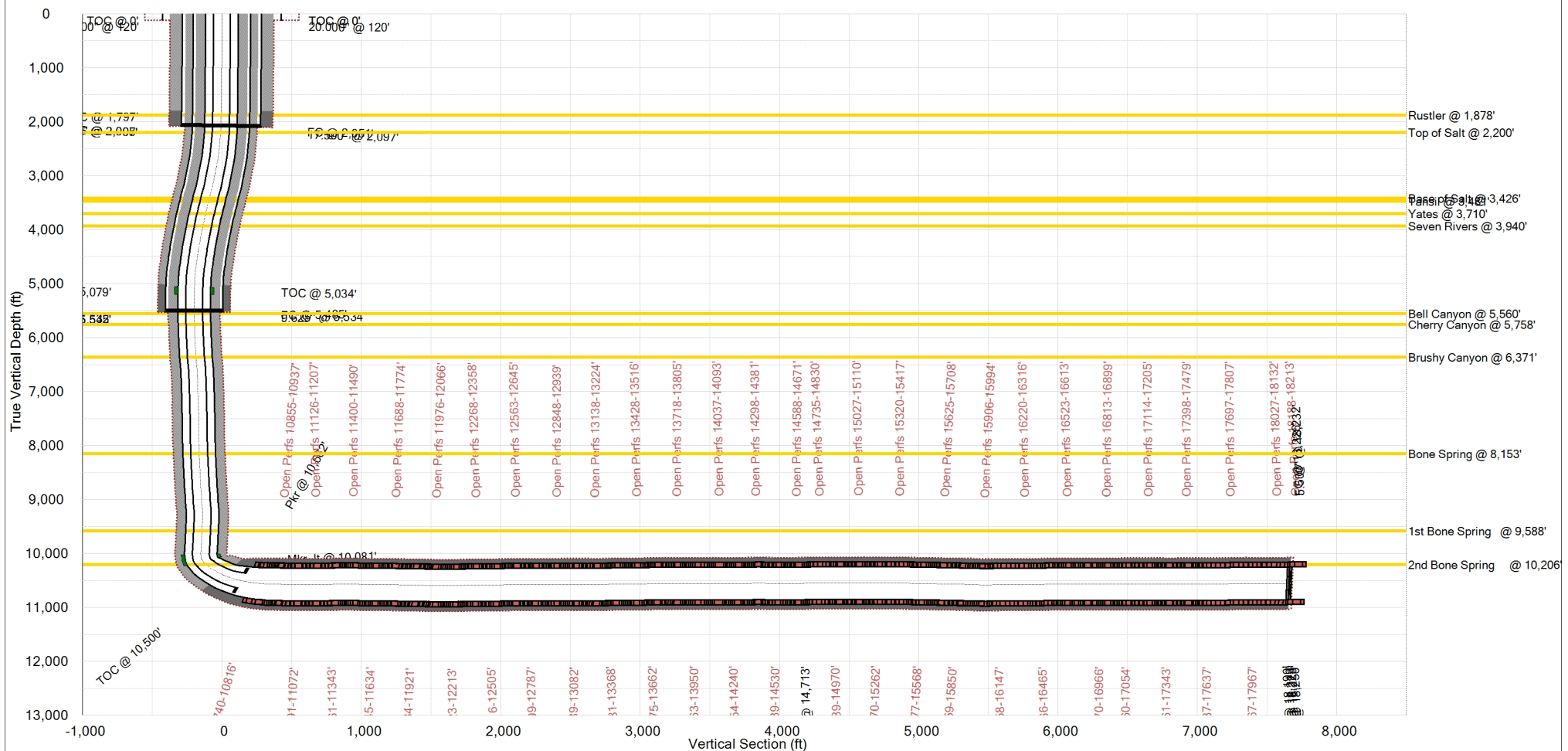
Formation Name	Top(TVD ft)	Comments
Rustler	1,878	
Top of Salt	2,200	
Base of Salt	3,426	
Tansil	3,481	
Yates	3,710	
Seven Rivers	3,940	
Bell Canyon	5,560	
Cherry Canyon	5,758	
Brushy Canyon	6,371	
Bone Spring	8,153	
1st Bone Spring	9,588	
2nd Bone Spring	10,206	

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Field Name		Lease Name				Well No.		County		State		API No.	
Laguna East		Talon 5-8 Federal				2H		Lea		New Mexico		3002547458	
Version	Version Tag					Spud Date		Comp. Date		G.L. (ft)		K.B. (ft)	
1	Completed					6/10/2021		12/7/2021		3,693.0		3,716.0	
Sec.	Township/Block	Range/Survey	Dist. N/S (ft)	N/S Line	Dist. E/W (ft)	E/W Line	Footage From		Latitude		Longitude		
5	20S	35E	205	FNL	1455	FEL			32.60903605		-103.47562802		
Well Status		PropNum		Operator		Last Updated			Prepared By		Updated By		
Completed		328897		Caza Operating		1/3/2022 8:11:31 AM			Steve Morris		Steve Morris		

Additional Information

From south Dal Paso street in Hobbs head west on US-180 towards county road 27-A for 23.6 miles. Turn left onto county road 27-A heading south for 1.9 miles. Turn left onto existing lease road heading east for 0.8 miles. Turn left heading north for 164 feet. Turn right onto access road to the pad heading east for 3 miles.



Last Updated: 1/3/2022 8:11:31 AM



Field Name		Lease Name		Well No.	API No.		Version	Version Tag		
Laguna East		Talon 5-8 Federal		2H	3002547458		1	Completed		
Section	Township/Block		Range/Survey		County		State		GL (ft)	KB (ft)
5	20S		35E		Lea		New Mexico		3,693.0	3,716.0
Target N (-S) (ft)		Target E (-W) (ft)		Latitude		Longitude		Operator		Well Status
0		0		32.60903605		-103.47562802		Caza Operating		Completed

Additional Information

From south Dal Paso street in Hobbs head west on US-180 towards county road 27-A for 23.6 miles. Turn left onto county road 27-A heading south for 1.9 miles. Turn left onto existing lease road heading east for 0.8 miles. Turn left heading north for 164 feet. Turn right onto access road to the pad heading east for 3 miles.

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	Coordinate N (-S) (ft)	Coordinate E (-W) (ft)	DLS (deg/100 ft)
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
144.0	0.2	55.0	144.0	-0.2	0.2	0.2	0.15
297.0	0.3	336.9	297.0	-0.7	0.7	0.3	0.22
389.0	0.1	284.7	389.0	-1.0	1.0	0.1	0.29
480.0	0.1	260.8	480.0	-1.0	1.0	0.0	0.04
572.0	0.3	273.3	572.0	-0.9	1.0	-0.3	0.24
667.0	0.3	289.8	667.0	-1.0	1.1	-0.8	0.10
759.0	0.3	339.0	759.0	-1.3	1.4	-1.1	0.26
853.0	0.4	1.6	853.0	-1.9	2.0	-1.2	0.21
948.0	0.6	350.6	948.0	-2.7	2.8	-1.2	0.17
1,042.0	0.6	342.4	1,042.0	-3.6	3.7	-1.4	0.09
1,137.0	0.4	322.8	1,137.0	-4.3	4.4	-1.8	0.25
1,231.0	0.1	297.3	1,231.0	-4.6	4.7	-2.1	0.31
1,326.0	0.4	292.1	1,326.0	-4.7	4.9	-2.4	0.23
1,421.0	0.4	311.9	1,421.0	-5.0	5.2	-2.9	0.13
1,515.0	0.1	348.7	1,515.0	-5.3	5.5	-3.2	0.27
1,610.0	0.4	286.0	1,610.0	-5.5	5.7	-3.5	0.42
1,704.0	0.3	1.7	1,704.0	-5.8	6.0	-3.9	0.50
1,799.0	0.4	316.3	1,799.0	-6.3	6.5	-4.1	0.27
1,893.0	0.3	45.7	1,893.0	-6.6	6.9	-4.1	0.46
1,988.0	0.7	63.7	1,988.0	-7.1	7.3	-3.4	0.48
2,033.0	1.1	56.0	2,033.0	-7.5	7.6	-2.8	1.01
2,113.0	1.9	61.8	2,112.9	-8.6	8.7	-1.0	0.96
2,177.0	2.4	64.2	2,176.9	-9.8	9.8	1.1	0.76
2,271.0	3.6	67.1	2,270.8	-12.1	11.8	5.6	1.28
2,365.0	3.4	70.5	2,364.6	-14.4	13.8	10.9	0.29
2,460.0	5.1	65.3	2,459.3	-17.5	16.5	17.3	1.80
2,554.0	5.3	59.0	2,553.0	-21.9	20.5	24.8	0.66
2,649.0	5.4	57.0	2,647.5	-27.0	25.2	32.3	0.22
2,743.0	5.6	47.8	2,741.1	-32.9	30.7	39.4	0.94
2,838.0	5.9	46.0	2,835.6	-39.7	37.2	46.4	0.44
2,932.0	6.2	47.8	2,929.1	-47.0	44.0	53.6	0.39
3,027.0	6.2	44.0	3,023.5	-54.5	51.1	61.0	0.44
3,122.0	6.3	45.1	3,118.0	-62.3	58.5	68.3	0.16
3,216.0	6.4	38.6	3,211.4	-70.4	66.2	75.2	0.77
3,311.0	6.8	34.7	3,305.8	-79.5	74.9	81.7	0.64
3,406.0	7.1	35.6	3,400.1	-89.2	84.3	88.2	0.35
3,500.0	6.4	35.3	3,493.4	-98.5	93.3	94.7	0.70
3,594.0	6.1	34.4	3,586.9	-107.3	101.7	100.5	0.35
3,689.0	5.9	32.6	3,681.4	-115.8	110.0	106.0	0.30
3,783.0	5.3	30.8	3,774.9	-123.9	117.8	110.8	0.64
3,877.0	5.1	29.0	3,868.5	-131.6	125.2	115.1	0.26
3,972.0	4.7	23.9	3,963.2	-139.0	132.4	118.7	0.68
4,066.0	4.7	25.3	4,056.9	-146.1	139.4	121.9	0.11
4,161.0	4.6	22.6	4,151.5	-153.3	146.4	125.0	0.24
4,255.0	4.4	22.5	4,245.3	-160.2	153.1	127.8	0.23
4,349.0	3.9	18.8	4,339.0	-166.6	159.5	130.2	0.55
4,443.0	3.7	11.7	4,432.8	-172.7	165.4	131.9	0.55
4,538.0	3.3	8.6	4,527.6	-178.5	171.1	132.9	0.46
4,632.0	3.0	7.1	4,621.5	-183.6	176.3	133.6	0.34
4,727.0	2.9	4.0	4,716.4	-188.5	181.1	134.1	0.19

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	Coordinate N (-S) (ft)	Coordinate E (-W) (ft)	DLS (deg/100 ft)
4,821.0	1.9	356.3	4,810.3	-192.4	185.0	134.1	1.17
4,916.0	1.5	353.9	4,905.2	-195.1	187.8	133.9	0.33
5,010.0	1.1	346.2	4,999.2	-197.2	189.9	133.6	0.55
5,105.0	0.9	335.4	5,094.2	-198.7	191.4	133.0	0.24
5,199.0	0.9	332.5	5,188.2	-200.0	192.8	132.4	0.05
5,294.0	1.1	257.6	5,283.2	-200.4	193.3	131.1	1.33
5,388.0	1.1	256.5	5,377.2	-199.9	192.9	129.4	0.10
5,474.0	1.0	260.5	5,463.2	-199.6	192.6	127.9	0.12
5,593.0	1.0	252.1	5,582.1	-199.0	192.1	125.9	0.12
5,688.0	3.3	266.6	5,677.1	-198.4	191.7	122.4	2.50
5,783.0	7.1	268.2	5,771.7	-197.5	191.3	113.8	3.98
5,877.0	10.1	268.6	5,864.6	-196.3	190.9	99.8	3.18
5,972.0	11.0	268.8	5,958.0	-195.0	190.6	82.4	1.01
6,067.0	10.6	268.3	6,051.3	-193.5	190.1	64.6	0.47
6,161.0	10.1	267.8	6,143.8	-192.0	189.5	47.7	0.52
6,255.0	10.5	269.4	6,236.3	-190.6	189.1	30.9	0.52
6,350.0	10.5	265.7	6,329.7	-188.9	188.4	13.7	0.71
6,444.0	10.2	260.6	6,422.2	-185.9	186.4	-3.0	1.02
6,539.0	11.0	263.0	6,515.5	-182.5	183.9	-20.2	0.97
6,633.0	12.0	268.0	6,607.7	-180.0	182.5	-38.9	1.56
6,727.0	12.0	268.3	6,699.6	-178.2	181.8	-58.5	0.09
6,822.0	12.0	268.8	6,792.5	-176.6	181.4	-78.2	0.12
6,916.0	11.8	268.6	6,884.5	-175.0	180.9	-97.5	0.20
7,010.0	11.6	268.8	6,976.6	-173.5	180.5	-116.5	0.19
7,105.0	11.2	270.3	7,069.7	-172.3	180.3	-135.3	0.57
7,199.0	10.9	270.9	7,162.0	-171.4	180.5	-153.3	0.30
7,293.0	10.6	271.5	7,254.3	-170.8	180.9	-170.8	0.39
7,388.0	10.3	271.5	7,347.8	-170.3	181.3	-188.0	0.23
7,482.0	10.1	271.0	7,440.3	-169.7	181.7	-204.6	0.25
7,577.0	9.7	271.1	7,533.8	-169.0	182.0	-221.0	0.42
7,671.0	9.5	271.5	7,626.5	-168.5	182.3	-236.7	0.24
7,766.0	9.1	269.7	7,720.3	-167.8	182.5	-252.0	0.47
7,860.0	10.4	270.9	7,812.9	-167.0	182.6	-268.0	1.38
7,955.0	11.6	272.3	7,906.2	-166.4	183.1	-286.1	1.23
8,049.0	10.3	272.1	7,998.5	-166.1	183.8	-303.9	1.35
8,144.0	11.2	268.5	8,091.8	-165.1	183.8	-321.6	1.20
8,239.0	10.7	267.6	8,185.1	-163.5	183.2	-339.6	0.58
8,333.0	8.6	268.1	8,277.7	-162.0	182.6	-355.3	2.25
8,428.0	9.1	266.6	8,371.6	-160.5	182.0	-369.9	0.56
8,522.0	10.0	267.3	8,464.3	-158.8	181.2	-385.4	1.04
8,617.0	8.3	265.9	8,558.1	-157.0	180.3	-400.5	1.82
8,712.0	8.1	265.8	8,652.1	-155.3	179.3	-414.1	0.19
8,806.0	9.0	266.5	8,745.1	-153.5	178.3	-428.1	0.94
8,901.0	7.9	261.3	8,839.0	-151.3	176.9	-441.9	1.44
8,995.0	7.6	258.2	8,932.2	-148.4	174.6	-454.3	0.55
9,089.0	6.1	259.4	9,025.5	-145.6	172.5	-465.3	1.55
9,184.0	4.8	257.1	9,120.1	-143.2	170.6	-474.1	1.41
9,278.0	4.0	255.5	9,213.8	-141.1	168.9	-481.1	0.85
9,373.0	2.8	265.8	9,308.6	-139.8	167.9	-486.7	1.40
9,467.0	2.8	289.0	9,402.5	-140.1	168.5	-491.1	1.19
9,562.0	2.9	292.7	9,497.4	-141.5	170.2	-495.5	0.24
9,656.0	2.9	296.4	9,591.3	-143.3	172.1	-499.8	0.21
9,751.0	2.4	299.8	9,686.2	-145.1	174.2	-503.6	0.54
9,845.0	1.5	308.5	9,780.1	-146.7	175.9	-506.3	0.94
9,940.0	1.9	331.0	9,875.1	-148.7	178.1	-508.0	0.77
9,993.0	1.9	330.9	9,928.1	-150.1	179.5	-508.9	0.01
10,076.0	1.7	336.8	10,011.0	-152.4	181.9	-510.0	0.28
10,123.0	3.7	187.5	10,058.0	-151.5	181.0	-510.5	11.24
10,170.0	10.5	180.5	10,104.6	-145.7	175.2	-510.7	14.39
10,217.0	17.2	178.4	10,150.2	-134.5	164.0	-510.6	14.44
10,264.0	21.5	179.4	10,194.6	-119.0	148.4	-510.3	9.00
10,312.0	26.2	178.8	10,238.5	-99.6	129.0	-510.0	9.80
10,359.0	30.9	176.5	10,279.8	-77.3	106.6	-509.0	10.39
10,406.0	33.2	174.3	10,319.6	-52.6	81.8	-507.0	5.54
10,453.0	35.6	175.1	10,358.4	-26.4	55.3	-504.5	5.13
10,500.0	40.3	177.4	10,395.4	2.3	26.5	-502.7	10.39

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	Coordinate N (-S) (ft)	Coordinate E (-W) (ft)	DLS (deg/100 ft)
10,547.0	45.5	179.3	10,429.9	34.2	-5.5	-501.8	11.36
10,594.0	51.7	179.5	10,461.0	69.3	-40.7	-501.4	13.28
10,642.0	57.7	178.9	10,488.7	108.3	-79.8	-500.8	12.49
10,689.0	63.1	178.3	10,511.9	149.1	-120.7	-499.8	11.57
10,736.0	68.0	177.4	10,531.4	191.6	-163.4	-498.2	10.69
10,783.0	74.1	177.6	10,546.6	235.9	-207.8	-496.3	12.92
10,830.0	79.7	178.2	10,557.3	281.4	-253.5	-494.7	11.85
10,877.0	84.5	179.5	10,563.7	327.8	-300.0	-493.7	10.60
10,924.0	86.0	179.7	10,567.7	374.5	-346.9	-493.4	3.24
11,019.0	86.5	178.9	10,573.9	469.1	-441.7	-492.3	1.00
11,113.0	91.0	180.0	10,576.0	562.9	-535.6	-491.4	4.85
11,208.0	91.1	179.6	10,574.2	657.7	-630.6	-491.0	0.41
11,302.0	91.0	179.5	10,572.5	751.4	-724.6	-490.4	0.14
11,396.0	91.4	179.1	10,570.5	845.2	-818.6	-489.2	0.63
11,491.0	88.6	179.7	10,570.4	940.0	-913.5	-488.3	3.03
11,585.0	88.0	179.2	10,573.2	1,033.7	-1,007.5	-487.4	0.84
11,679.0	88.0	178.6	10,576.4	1,127.4	-1,101.4	-485.5	0.65
11,774.0	88.0	178.3	10,579.8	1,222.0	-1,196.3	-483.0	0.28
11,868.0	87.8	177.9	10,583.3	1,315.5	-1,290.2	-479.8	0.49
11,962.0	87.5	177.4	10,587.1	1,409.0	-1,384.0	-476.0	0.60
12,057.0	88.1	178.8	10,590.8	1,503.5	-1,478.9	-472.8	1.55
12,151.0	90.5	180.6	10,591.9	1,597.3	-1,572.9	-472.3	3.21
12,245.0	91.4	180.3	10,590.4	1,691.2	-1,666.9	-473.0	1.00
12,340.0	91.7	179.8	10,587.8	1,786.0	-1,761.8	-473.0	0.60
12,434.0	92.3	179.6	10,584.5	1,879.8	-1,855.8	-472.6	0.59
12,528.0	91.2	181.6	10,581.6	1,973.6	-1,949.7	-473.6	2.34
12,622.0	91.0	181.9	10,579.8	2,067.6	-2,043.7	-476.4	0.44
12,717.0	91.3	181.7	10,577.9	2,162.5	-2,138.6	-479.3	0.46
12,810.0	92.3	181.0	10,574.9	2,255.4	-2,231.5	-481.5	1.29
12,905.0	89.8	180.2	10,573.2	2,350.3	-2,326.5	-482.4	2.81
12,999.0	89.6	179.7	10,573.7	2,444.1	-2,420.5	-482.3	0.49
13,093.0	89.6	178.8	10,574.4	2,537.9	-2,514.5	-481.0	1.03
13,188.0	89.6	180.4	10,575.0	2,632.7	-2,609.5	-480.3	1.76
13,281.0	92.1	180.7	10,573.6	2,725.6	-2,702.5	-481.2	2.66
13,376.0	93.1	179.6	10,569.4	2,820.3	-2,797.4	-481.5	1.50
13,470.0	91.0	179.2	10,566.0	2,914.1	-2,891.3	-480.5	2.20
13,564.0	91.5	178.8	10,563.9	3,007.8	-2,985.3	-478.8	0.70
13,658.0	92.2	178.5	10,560.9	3,101.4	-3,079.2	-476.6	0.75
13,753.0	89.7	179.7	10,559.3	3,196.1	-3,174.1	-475.1	2.90
13,847.0	88.7	179.4	10,560.6	3,289.9	-3,268.1	-474.3	1.14
13,941.0	90.1	180.8	10,561.6	3,383.8	-3,362.1	-474.4	2.11
14,036.0	91.1	181.0	10,560.6	3,478.7	-3,457.1	-475.9	1.04
14,130.0	91.5	181.0	10,558.5	3,572.6	-3,551.1	-477.4	0.41
14,224.0	91.7	181.0	10,555.9	3,666.5	-3,645.0	-479.0	0.29
14,318.0	90.8	180.3	10,553.8	3,760.3	-3,739.0	-480.0	1.22
14,412.0	89.6	180.0	10,553.6	3,854.2	-3,833.0	-480.3	1.32
14,507.0	89.5	180.1	10,554.3	3,949.0	-3,928.0	-480.3	0.13
14,601.0	88.7	179.7	10,555.8	4,042.9	-4,022.0	-480.2	0.92
14,695.0	91.0	179.6	10,556.1	4,136.7	-4,116.0	-479.6	2.44
14,790.0	92.0	179.5	10,553.6	4,231.4	-4,210.9	-478.9	1.11
14,885.0	91.3	180.0	10,550.8	4,326.2	-4,305.9	-478.5	0.95
14,979.0	91.7	179.8	10,548.5	4,420.0	-4,399.9	-478.4	0.46
15,073.0	90.8	180.3	10,546.4	4,513.8	-4,493.8	-478.4	1.01
15,167.0	88.6	179.9	10,546.9	4,607.7	-4,587.8	-478.5	2.36
15,262.0	88.8	179.5	10,549.0	4,702.5	-4,682.8	-478.1	0.44
15,356.0	90.0	179.5	10,550.0	4,796.3	-4,776.8	-477.3	1.21
15,450.0	88.8	179.6	10,550.9	4,890.1	-4,870.8	-476.6	1.22
15,544.0	87.3	179.5	10,554.2	4,983.8	-4,964.7	-475.9	1.69
15,639.0	87.7	179.5	10,558.3	5,078.5	-5,059.6	-475.2	0.52
15,733.0	85.5	179.4	10,563.8	5,172.2	-5,153.5	-474.3	2.35
15,828.0	85.7	179.1	10,571.1	5,266.6	-5,248.2	-473.0	0.31
15,951.0	87.3	178.9	10,578.7	5,389.1	-5,370.9	-470.9	1.29
16,045.0	89.6	179.0	10,581.2	5,482.8	-5,464.9	-469.2	2.54
16,140.0	92.4	178.9	10,579.5	5,577.5	-5,559.8	-467.4	2.93
16,234.0	91.5	179.0	10,576.3	5,671.1	-5,653.7	-465.7	0.98
16,328.0	90.5	179.5	10,574.7	5,764.9	-5,747.7	-464.5	1.23

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	Coordinate N (-S) (ft)	Coordinate E (-W) (ft)	DLS (deg/100 ft)
16,423.0	91.8	179.4	10,572.8	5,859.6	-5,842.7	-463.6	1.45
16,517.0	90.6	180.4	10,570.8	5,953.5	-5,936.7	-463.4	1.69
16,612.0	92.0	180.0	10,568.7	6,048.3	-6,031.6	-463.7	1.52
16,706.0	91.1	178.6	10,566.2	6,142.0	-6,125.6	-462.6	1.76
16,801.0	90.0	178.1	10,565.3	6,236.7	-6,220.6	-459.8	1.25
16,895.0	88.9	175.9	10,566.2	6,330.1	-6,314.4	-454.9	2.64
16,989.0	90.1	175.7	10,567.0	6,423.3	-6,408.2	-448.0	1.26
17,084.0	90.7	175.7	10,566.4	6,517.5	-6,502.9	-440.8	0.60
17,178.0	90.3	178.2	10,565.6	6,610.9	-6,596.7	-435.8	2.77
17,272.0	90.4	179.8	10,565.0	6,704.6	-6,690.7	-434.3	1.68
17,366.0	90.8	179.6	10,564.1	6,798.4	-6,784.7	-433.8	0.48
17,461.0	89.9	180.4	10,563.5	6,893.3	-6,879.7	-433.8	1.26
17,555.0	90.7	179.9	10,563.0	6,987.1	-6,973.7	-434.0	1.09
17,650.0	89.4	181.5	10,563.0	7,082.0	-7,068.7	-435.1	2.22
17,745.0	90.5	180.7	10,563.1	7,176.9	-7,163.7	-436.9	1.43
17,839.0	90.6	180.4	10,562.2	7,270.8	-7,257.7	-437.9	0.37
17,934.0	90.3	179.9	10,561.4	7,365.7	-7,352.7	-438.2	0.65
18,028.0	90.9	179.3	10,560.4	7,459.5	-7,446.7	-437.5	0.89
18,123.0	91.9	178.6	10,558.0	7,554.2	-7,541.6	-435.8	1.27
18,195.0	92.7	177.9	10,555.1	7,625.9	-7,613.5	-433.6	1.52
18,250.0	92.7	177.9	10,552.5	7,680.5	-7,668.4	-431.6	0.00

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

ACKNOWLEDGMENTS

Action 89053

ACKNOWLEDGMENTS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 89053
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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CONDITIONS

Action 89053

CONDITIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 89053
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
jagarcia	Property code is 330237	9/15/2022