



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

Well Completion Print

08/29/2024

Operator Name AMEREDEV OPERATING LLC SHL SESE Sec 31 25S 36E	Well Name NANDINA FED COM 25 36 31 County LEA	Well Number 127H State NM	US Well Number 3002549181 Lease Number(s) NMNM119762
Well Type OIL WELL	Well Status Producing Oil Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name NAN/GB	Well Pad Number 8N	APD ID 10400055420

Section 1 - General

Well Completion Report Id: 86846**Submission Date:** 12-14-2022**BLM Office:** Carlsbad Field Office**User:** CHRISTIE HANNA**Title:** Senior Engineering Technician**Federal/Indian:** FEDERAL**Lease Number:** NMNM119762**Lease Acres:****Agreement in place?:** NO**Federal or Indian Agreement:****Agreement Number:****Agreement Name:****Additional Information****Keep this Well Completion Report confidential?:** NO**APD Operator:** AMEREDEV
OPERATING LLC

Section 2 - Well

Field/Pool or Exploratory:**Pool Name:** WOLFCAMP**Field Name:** WC-025 G-09**Well Type:** OIL WELL**Spud Date:** 10-07-2021**Date Total Measured Depth Reached:** 01-14-2022**Drill & Abandon or Ready To Produce:** READY TO PRODUCE**Well Class:** HORIZONTAL

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Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
RUSTLER ANHYDRITE	ANHYDRITE		3010	1037	1037	NONE	
SALADO	SALT		1599	1411	1411	NONE	
TANSILL	LIMESTONE		-197	3207	3207	NONE	
CAPITAN REEF	LIMESTONE		-670	3680	3680	USEABLE WATER	
LAMAR	LIMESTONE		-2036	5046	5046	NONE	
BELL CANYON	SANDSTONE		-2108	5118	5118	NATURAL GAS, OIL	
BRUSHY CANYON	SANDSTONE		-4221	7231	7231	NATURAL GAS, OIL	
BONE SPRING LIME	LIMESTONE		-5240	8250	8250	NONE	
BONE SPRING 1ST	SANDSTONE		-6612	9622	9622	NATURAL GAS, OIL	
BONE SPRING 2ND	SANDSTONE		-7150	10160	10160	NATURAL GAS, OIL	
BONE SPRING 3RD	LIMESTONE		-7765	10775	10775	NATURAL GAS, OIL	
BONE SPRING 3RD	SANDSTONE		-8361	11371	11371	NATURAL GAS, OIL	
WOLFCAMP	SHALE		-8612	11622	11622	NATURAL GAS, OIL	
WOLFCAMP	SHALE		-8931	11941	11941	CO2, NATURAL GAS	

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Completion and Completed

Completion Data

Wellbore Code	Completion Code	Interval Number	Case Number	Lease Number	Well Completion Type	Describe Well Completion Type	Completion Status	Date Completed	Date First Produced	Formation	Interval Top (MD)	Interval Bottom (MD)	Interval Perforated?	Perforation Size	Number of Holes	Status of Interval
00	S1	1	NMNM119762	NMNM119762	NEW		POW	09-02-2022	09-05-2022	WOLFCA MP	11938	22101	Y	.49	4136	ISOLATED

Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Totle Fluid (bbls)	Total Proppant (lbs)	Treatment Remarks
00	S1	1	Y	FRAC	733449	27331771	

Production Data

Wellbore Code	Completion Code	Interval Number	API Oil Gravity	Gas Gravity	Production Method	Describe Production	Disposition of Gas	Describe Disposition
00	S1	1	37.5		FLows FROM WELL		SOLD	

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Test Data

Wellbore Code	Completion Code	Interval Number	Test Date	Hours Tested	24-Hour Rate Oil (bbls)	24-Hour Rate Gas (MCF)	24-Hour Rate Water(BWPD)	Gas-Oil Ratio (SCF/Bbl)	Choke Size	Tubing Pressure	Tubing Pressure Shut-In (psi)	Casing Pressure (psi)
00	S1	1	09/24/2022	24	1231	1353	5110	1099	64/64	153		0

Well Location

Survey Type: RECTANGULAR

Survey Number: 18329

Datum: NAD83

Vertical Datum: NAVD88

Reference Datum: GL

	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	MD (ft)	TVD (ft)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Aliquot/Lot/Tract
	SHL	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0801276	-103.2987419	3010	N/A	N/A	FEDERAL	NMNM119762			200	FSL	950	FEL	25S	36E	31	SESE
KOP Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0794899	-103.2969029	-8270	11313	11280	FEDERAL	NMNM137807				27	FNL	375	FEL	26S	36E	6	NENE
PPP Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0868525	-103.2966061	-8793	14315	11803	FEDERAL	NMNM137469				2653	FSL	312	FEL	25S	36E	31	SENE
PPP Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0803447	-103.2965787	-8715	11834	11725	FEDERAL	NMNM119762				279	FSL	280	FEL	25S	36E	31	SESE

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	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	MD (ft)	TVD (ft)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Aliquot/Lot/Tract
EXIT Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.1082279	-103.2966516	-8660	22155	11670	FEE	FEE				296	FNL	300	FEL	25S	36E	30	NENE

BHL Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.1084535	-103.2966369	-8653	22187	11663	FEE	FEE	22163	22163	COMPOSITE	56	FNL	296	FEL	25S	36E	30	NENE
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Casing, Liner and Tubing

Casing and Liner

Wellbore Code	Casing String Type	Hole Size	Top Setting Depth (MD)	Bottom Setting Depth (MD)	Casing Size	Wt(lbs/ft)	Casing Grade	Describe Other Casing Grade	Joint	Other Joint	Amount Pulled (ft)
00	SURFACE	17.5	0	1205	13.375	68	J-55		OTHER	BTC	0
00	INTERMEDIATE	12.25	0	5095	10.75	45.5	HCL-80		OTHER	BTC	0

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Casing and Liner

Wellbore Code	Casing String Type	Hole Size	Top Setting Depth (MD)	Bottom Setting Depth (MD)	Casing Size	Wt(lbs/ft)	Casing Grade	Describe Other Casing Grade	Joint	Other Joint	Amount Pulled (ft)
00	INTERMEDIATE	9.875	0	11171	7.625	29.7	HCL-80		OTHER	BTC	0
00	PRODUCTION	6.75	0	22163	5.5	23	P-110		OTHER	RYS USS EAGLE SFH	0

Cementing

Wellbore Code	Casing String Type	Stage Tool Depth	Cement Lead Type	Cement Lead Qty (sks)	Cement Lead Yield (cu.ft/sks)	Cement Lead Top (MD)	Cement Tail Type	Cement Tail Qty (sks)	Cement Tail Yield(cu.ft/sks)	Cement Tail Top (MD)	Total (Lead + Tail) Cement Slurry Volume
00	SURFACE		Class C	801	1.73	0	Class C	302	1.35		319.4
00	INTERMEDIATE		CLASS C	1145	2.2	0	CLASS C	925	1.33		667.7
00	INTERMEDIATE		Class H	980	3.13	0	Class H	340	1.29		624.4
00	PRODUCTION		Class H	520	1.98	0	Class H	1105	1.24		427.4

Tubing

Wellbore Code	Tubing Size	Describe Other	Tubing Setting Depth (MD/ft)	Packer Depth (MD/ft)	Tubing Weight	Tubing Grade	Describe Other	Tubing Coupling	Describe Other
00	2.875		11296	11290	6	L-80		OTHER	8RD EUE

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Logs

Wellbore Code	Log Upload	Was Well Cored?	Was DST Run?	Directional Survey?	Geologic Report	Wellbore Diagram
00	YES	NO	NO	YES	NO	YES

Operator

I hereby certify that the foregoing and attached information is complete and correct as determined from all available records. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Well Completion Reports through this system satisfies regulations requiring a submission of Form 3160-4 or a Well Completion Report.

Name: AMEREDEV OPERATING LLC

Signed By: CHRISTIE HANNA Title: Senior Engineering Technician Signed on: 11/07/2023

Street Address: 2901 VIA FORTUNA, SUITE 600

City: AUSTIN State: TX Zip: 78746

Phone: (737)300-4723

Email address: CHANNA@AMEREDEV.COM

Field

Representative Name: Connor Aitken

Street Address: 2901 VIA FORTUNA, STE. 600

City: AUSTIN State: TX Zip: 78746

Phone: (737)300-4700 Extension:

Email address: caitken@ameredev.com

Attachments

Operator Name AMEREDEV OPERATING LLC SHL SESE Sec 31 25S 36E	Well Name NANDINA FED COM 25 36 31 County LEA	Well Number 127H State NM	US Well Number 3002549181 Lease Number(s) NMNM119762
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- Nandina_Fed_Com_25_36_31__127H__2in_MD_20221214165714.pdf
- NANDINA_FED_COM_25_36_31_127H_As_Drilled_WBD_20221214165723.pdf
- NANDINA_25_36_31_FEDERAL_COM_127H_FINAL_SVY_RPT_20230608160815.pdf
- AD_NANDINA_FED_COM_25_36_31_127H_S_20230608160833.pdf

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☐ Gas Well ☐ Dry ☐ Other			5. Lease Serial No.		
b. Type of Completion ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Zones ☐ Hydraulic Fracturing			6. If Indian, Allottee or Tribe Name		
Other: _____			7. Unit or CA Agreement Name and No.		
2. Name of Operator			8. Well Name and Well No.		
3. Address		3a. Phone No. (Include area code)		9. API Well No.	
4. Location of Well (Report location clearly and in accordance with Federal requirements)*				10. Field and Pool or Exploratory	
At surface				11. Sec., T., R., M., on Block and Survey or Area	
At top prod. interval reported below				12. County or Parish	
At total depth				13. State	
14. Date Spudded		15. Date T.D. Reached		16. Date Completed	
				☐ D & A ☐ Ready to Prod.	
18. Total Depth: MD TVD		19. Plug Back T.D.: MD TVD		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each)				22. Was well cored? ☐ No ☐ Yes (Submit analysis) Was DST run? ☐ No ☐ Yes (Submit report) Directional Survey? ☐ No ☐ Yes (Submit copy)	

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled

24. Tubing Record

Size	Dept Set (MD)	Packer Dept (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)						
B)						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Post hydraulic fracturing chemical disclosures on FracFocus.org when required by state or federal regulation

Depth Interval	Amount, Type of Material and Date of Chemical Disclosure upload on FracFocus.org as applicable

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C									
Date First Produced	Test Date	Hours Tested	Test Production ➡	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate ➡	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D									
Date First Produced	Test Date	Hours Tested	Test Production ➡	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API.	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate ➡	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (Solid, used for fuel, vented, etc.)

30. Summary of Porous Zones (Include Aquifers): Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.						31. Formation (Log) Markers			
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Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth

32. Additional remarks (include plugging procedure).

33. Indicate which items have been attached by placing a check in the appropriate boxes:				
☐ Electrical/Mechanical Logs (1 full set req'd.)	☐ Geologic Report	☐ DST Report	☐ Directional Survey	
☐ Sundry Notice for plugging and cement verification	☐ Core Analysis	☐ Other:		

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*	
Name (please print) _____	Title _____
Signature _____	Date _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

INSTRUCTIONS

GENERAL: This form is designed for submitting a complete and correct well completion/recompletion report and log on all types of wells on Federal and Indian leases to a Federal agency, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal office. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, and all types electric), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal laws and regulations. All attachments should be listed on this form, see item 33.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal office for specific instructions.

ITEM 17: Indicate which reported elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

ITEM 23: Show how reported top(s) of cement were determined, i.e. circulated (CIR), or calculated (CAL), or cement bond log (CBL), or temperature survey (TS).

NOTICES

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

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

PRINCIPAL PURPOSE: The information is to be used to evaluate the actual operations performed in the drilling, completing and testing of a well on a Federal or Indian lease.

ROUTINE USES: (1) Evaluate the equipment and procedures used during the drilling and completing/recompleting of a well. (2) The review of geologic zones and formation encountered during drilling. (3) Analyze future applications to drill in light of data obtained and methods used. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this report and disclosure of the information is mandatory once a well drilled on a Federal or Indian lease is completed/recompleted.

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

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling and completing/recompleting wells on Federal and Indian oil and gas leases.

This information will be used to analyze operations and to compare equipment and procedures actually used with those proposed and approved.

Response to this request is mandatory only if the operator elects to initiate drilling and completing/recompleting operations on an oil and gas lease.

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

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

Additional Information

Location information: 00S1

SHL: SESE / 200 FSL / 950 FEL / TWSP: 25S / RNG: 36E / SEC: 31 / LAT: 32.0801276 / LONG: -103.2987419

KOP: NENE / 27 FNL / 375 FEL / TWSP: 26S / RNG: 36E / SEC: 6 / LAT: 32.0794899 / LONG: -103.2969029

PPP: SESE / 279 FSL / 280 FEL / TWSP: 25S / RNG: 36E / SEC: 31 / LAT: 32.0803447 / LONG: -103.2965787

PPP: SENE / 2653 FSL / 312 FEL / TWSP: 25S / RNG: 36E / SEC: 31 / LAT: 32.0868525 / LONG: -103.2966061

EXIT: NENE / 296 FNL / 300 FEL / TWSP: 25S / RNG: 36E / SEC: 30 / LAT: 32.1082279 / LONG: -103.2966516

BHL: NENE / 56 FNL / 296 FEL / TWSP: 25S / RNG: 36E / SEC: 30 / LAT: 32.1084535 / LONG: -103.2966369

Summary of Porous Zones Information:

Formation: BRUSHY CANYON, Descriptions, Contents, etc: , Bottom: 7231

Formation: BONE SPRING LIME, Descriptions, Contents, etc: , Bottom: 8250

Formation: BONE SPRING 1ST, Descriptions, Contents, etc: , Bottom: 9622

Formation: BONE SPRING 2ND, Descriptions, Contents, etc: , Bottom: 10160

Formation: BONE SPRING 3RD, Descriptions, Contents, etc: , Bottom: 10775

Formation: BONE SPRING 3RD, Descriptions, Contents, etc: , Bottom: 11371

Formation: WOLFCAMP, Descriptions, Contents, etc: , Bottom: 11622

Formation: WOLFCAMP, Descriptions, Contents, etc: , Bottom: 11941

Attachments: 00S1

Log Attachments:

1) NANDINA_FED_COM_25_36_31_127H_As_Drilled_WBD_20221214165723.pdf

2) AD_NANDINA_FED_COM_25_36_31_127H_S_20230608160833.pdf

3) Nandina_Fed_Com_25_36_31_127H_2in_MD_20221214165714.pdf

4) NANDINA_25_36_31_FEDERAL_COM_127H_FINAL_SVY_RPT_20230608160815.pdf



AIM Directional Services

Nandina Fed Com 25-36-31 #127H

Scale 2":100' - MD

1/15/2022 4:50 AM

Oper. Company: Ameredev

State: NM

Well: Nandina Fed Com 25-36-31 #127H

County: Lea

Field: Wolfcamp West

Country: USA

Rig: Nabors X49

Location: Lea County New Mexico

Well ID: 30-025-49181

Start Date: 10/25/2021 15:30:00

Job Number: WT-21-155

End Date: 01/14/2022 12:45:00

Latitude: 32° 4' 48.460" N

Elev GL: 3010

Longitude: 103° 17' 55.936" W

Elev DF: 3037

Elev KB: 3037

Operator 1: Ryan Ben-David

Operator 2: Aim RTOC

Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	G-063	G-056	G-042	G-042	G-059
Bit Size	17.50	9.88	9.88	9.88	6.75
Cal Factor	6.61	5.971	5.971	5.971	3.352
Survey Offset	85.00	72.00	71.00	71.00	68.00
Gamma Offset	68.55	56.23	55.26	55.26	51.89
Resistivity Offset	0.00	0.00	0.00	0.00	0.00
Start Depth	1192.00	5115.00	6945.00	9166.00	11191.00
StartDate	10/25/2021	10/31/2021	11/2/2021	11/3/2021	12/30/2021
StartTime	15:30	16:15	00:15	22:10	20:02
EndDepth	5115.00	6945.00	9166.00	11191.00	12612.00
EndDate	10/30/2021	11/1/2021	11/3/2021	11/6/2021	1/1/2022
EndTime	10:30	23:30	21:15	03:00	18:30
Mud Type	WBM	WBM	WBM	WBM	OBM
Mud Weight	8.6 ppg	8.7 ppg	8.7 ppg	8.9 ppg	10.5 ppg
Temperature	75.2° F	125.6° F	149° F	165° F	161° F
Tool Run Data	Run #6	Run #7	Run #8	Run #9	Run #10
Tool S/N	G-059	G-078	G-078	G-078	G-078
Bit Size	6.75	6.75	6.75	6.75	6.75
Cal Factor	3.352	3.367	3.367	3.367	3.367
Survey Offset	70.00	61.00	73.00	73.00	73.00
Gamma Offset	54.70	45.25	57.46	57.46	57.46
Resistivity Offset	0.00	0.00	0.00	0.00	0.00
Start Depth	12612.00	14350.00	14360.00	16631.00	20909.00
StartDate	1/1/2022	1/4/2022	1/5/2022	1/7/2022	1/11/2022
StartTime	23:20	08:15	06:15	07:12	09:40
EndDepth	14350.00	14360.00	16631.00	20909.00	21697.00
EndDate	1/4/2022	1/5/2022	1/7/2022	1/11/2022	1/13/2022
EndTime	02:52	03:30	06:32	21:00	14:45
Mud Type	OBM	OBM	OBM	OBM	OBM
Mud Weight	11 ppg	11.1 ppg	11.2 ppg	11.2 ppg	11.2 ppg
Temperature	176° F	159° F	190° F	202° F	206° F
Tool Run Data	Run #11	Run #12	Run #13	Run #14	Run #15
Tool S/N	G-078				
Bit Size	6.75				
Cal Factor	3.367				
Survey Offset	63.00				
Gamma Offset	48.12				
Resistivity Offset	0.00				
Start Depth	21697.00				
StartDate	1/12/2022				
StartTime	08:15				
EndDepth					
EndDate					
EndTime					
Mud Type					
Mud Weight					
Temperature					

Nandina 25 36 31 Federal Com 127H					
Jal/Wolfcamp West					
County, St: Lea, NM SHL: Section 31 , T25S , R36E 200' FSL, 950' FEL BHL: Section 30 , T25S , R36E 56' FNL, 296' FEL Wellhead: A - 13-5/8" 10M x 13-5/8" SOW B - 13-5/8" 10M x 13-5/8" 10M C - 13-5/8" 10M x 13-5/8" 10M Tubing Spool: 7-1/16" 15M x 13-3/8" 10M Xmas Tree: 2-9/16" 10M Tubing: 2-7/8" L-80 6.5# 8rd EUE		AS-DRILLED		Co. Well ID: 40791 AFE #: 2020-020 API #: 30-025-49181 Permit: BLM GL: 3,010' Field: Delaware Rig: Nabors X49 KB: 32.5' Elevation: 3,043' E-Mail: drillingcr@ameredev.com Spud Date: 10/7/2021 Rig Release Date: 1/16/2022	
General Notes	Hole Size	Casing & Cement	Geology	TVD	Mud Weight
Surface Cement: Pump 20 bbl Spacer, Pump 247 bbls, 801 sks of 13.5 ppg @ 9.22 Mix Water, 1.73 Yield (Class C + 4% Bentonite -.25#/sk Celloflake + .125#/sk LFC-4); Pump 73 bbls, 302 Sks of 14.8 ppg 100% Class C Premium Tail Cement @ 6.44 Mix Water, 1.35 Yield ; Shut down Drop Plug and Displace with 174 bbls Fresh Water @ 8 bpm with full returns. Bump plug, Bled back 1.5 bbl. Checked Float (Held) 65 BBL's of Cement to Surface. Casing Test: 1500 Psi (Good)	17-1/2"	Cement to Surface: 65 bbls	Conductor	128'	8.4 - 8.6 ppg
	1225'	13.375 68 J-55 BTC 0 - 1205	Rustler	1,037'	
Intermediate Cement: Cement 10.75" Intermediate Casing. Test Lines @ 3500 psi, Pump 30 bbl Spacer, Pump 449 bbls, 1145 sks of 11 ppg Nine Lite Lead Cement, Sack Wt @ 75 lb/sk, Yield @ 2.2 ft ³ /sk, Mix Water @ 12.01 gps with Blitz @ 4 lbs/sk & CPT-20A @ 0.15% Followed by 30 bbls, 125 sks of 14.8 ppg Class C Tail Cement, Sack Wt @ 94 lb/sk, Yield @ 1.33 ft ³ /sk, Mix Water @ 6.32 gps, with CPT-24 @ 0.1% Shut down, Drop Plug, Pump 400 bbls FW Displacement with no returns. Email from Allison Morency, BLM Petroleum Engineer states "You are approved to utilize a single-staged cement job with a Bradenhead if there are issues." Notify BLM Rep Mila of Cement Job 10/30/2021 @ 4:00 am. Continue Pumping Cement Displacement with Fresh Water @ 6 bpm, slow pumps to 3 bpm to land plug, Bump Plug @ 488 bbls 500 psi over to 1000 psi. Bled back 1/4 bbl, Floats Held. No Cement Circulated to Surface. (Notify BLM Rep Mila of pumping Approved Remedial Cement 10/31/2021 @ 07:00 am). Test Lines, Establish Injection Rate @ 4 bpm and Pump 190 bbls, 800 sks of 14.8 ppg Class C Cement, Yield @ 1.33 ft ³ /sk, Mix Water @ 6.32 gps @ 4 bpm @ 200 psi. Pump 3 bbls Fresh Water to Clean lines, Washout Valve Inlet. Close Casing Valve. Casing Test: 1500 Psi (Good)	12-1/4"	Intermediate 1 DV Tool/ACP Did Not Run	Salado	1,411'	10 (180k+ chlorides) ppg
	5115'	Cement to Surface: No Cement to Surface bbls	Tansill	3,207'	
No Temp Log or CBL was run.	9-7/8"	10.75 45.5 HC L-80 BTC 0 - 5095	Capitan	3,680'	
Intermediate II Cement: Test Lines to 5000 psi, Pump 40 bbls Weighted Dye Spacer @ 9.5 ppg, Pump 546 bbls, 980 sks (50% Excess) of 100% HSLD 77 Lead Cement @ 10.5 ppg, Yield @ 3.13 ft ³ /sk, Mix water @ 18.89 gps with Salt @ 0.79 #/sk, C-45 Econolite @ 0.50%, STE @ 4.00%, Citric Acid @ 0.25%, CSA-1000-Fluid Loss Additive @ 0.45%, Kol Seal @ 3.00 #/sk, C-503P Defoamer @ 0.30%, Phenoseal @ 2.50 #/sk HGS-8000X Low Density Additive @ 1.30 #/sk @ 8 bpm. Pump 52.8 bbls, 340 sks (25% Excess) of 50:25:25% Class H Premium: Compass Poz-Mix: CPO-18 Tail Cement @ 14.2 ppg, Yield @ 1.29 ft ³ /sk, Mix Water @ 5.90 gps with Salt @ 0.49 #/sk, C-45 Econolite @ 0.10%, STE @ 4.00%, Citric Acid @ 0.03%, CSA-1000-Fluid Loss Additive 0.06% & FL-1 @ 0.30% @ 6.5 bpm. Pump 508.8 bbls Fresh Water Displacement, Slow down and Bump Plug 500 psi over FCP @ 1831 psi and Stage up to 2500 psi for CIT. Full Returns throughout Job, Circulated 153 bbls, 274.4 sks of Cement Back to Surface. On 11/7/2021. Casing Test: 2500 psi (Good)	11191'	Cement to Surface: 153 bbls	Bell Canyon	5,118'	9.0 - 9.5 ppg
	11171' MD 11138' TVD	7.625 29.7 HC L-80 BTC 0 - 11171	Brushy Canyon	7,231'	
Production Cement: Fill cement lines and test lines, pump 50 bbls spacer @ 12.5 ppg w/surfactant at 4 bpm, Mix and pump 520 sks - 40% excess yielding 183 bbl. of lead cement - 80% Class C Premium, 20% CHP-07 Light Weight, Salt 0.88#/sk, Salt, 0.27% Citric Acid, 0.03% CSA-1000, 0.80% fluid loss additive. Yield 1.98; Density 12.5 ppg. Mix and pumped 490 sks yielding 108.2 bbls of 1st tail cement w/ LCM- 50% Class H premium, 25 % compass Poz-Mix and 25% CPO-18, 0.02% CSA-1000 Fluid loss additive, 0.55% CFL-1, 1#/sk OF-1 LCM, 0.20% Retarder C-20. Yield 1.24; Density 14.2. Mix and pumped 615 sks yielding 135.8 bbl @ 4 bpm of 2nd tail cement- 50% Class H premium, 25 % compass Poz-Mix and 25% CPO-18, 0.02% CSA-1000 Fluid loss additive, 0.55% CFL-1, 0.16% Retarder C-20. Yield 1.24; Density 14.2. Pumped 5 bbls of sugar water. Shutdown, drop top plug followed by 462.7 bbls fresh water to displace, No cement back to surface. Pumped 5 bbls of sugar water. Bump plug with 7900 psi. Check floats, 11 bbls back to truck. Top of Cement at 4,787'. Done on 1/15/2022 @ 08:15.	6-3/4"	Floatation Collar @ Not Run ' MD	Bone Spring Lime First Bone Spring	8,250' 9,622'	10.5-12.5 ppg
	11130' MD 11267' TVD	5.5 23 RYS P-110 Sem-FI (Eagle SFH) 0 - 11945 5.5 23 HP-110 Anaconda GT 11945 - 22163 Marker Jts @ 10958' & 17190' MD Toe Sleeves @ 22118' & 22127' MD	Second Bone Spring	10,160'	
Lateral Length: 10087'		CTS: Calculated TOC @ 4787' bbls	Third Bone Spring	11,371'	
LTP VS: 10263'		Wolfcamp		11,622'	
FTP: 11938'	6-3/4" Lateral	5.5 23 HP-110 Anaconda GT 11945 - 22163	Wolfcamp B	11,941'	
LTP: 22143'		Marker Jts @ 10958' & 17190' MD Toe Sleeves @ 22118' & 22127' MD			
		22187' MD 11,663' TVD @ BHL 10,326' VS			

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 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

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☒ AMENDED REPORT
AS-DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-49181	² Pool Code 33813	³ Pool Name JAL/WOLFCAMP WEST
⁴ Property Code 322647	⁵ Property Name NANDINA 25 36 31 FEDERAL COM	⁶ Well Number 127H
⁷ OGRID No. 372224	⁸ Operator Name AMEREDEV OPERATING, LLC.	⁹ Elevation 3010'

¹⁰Surface Location

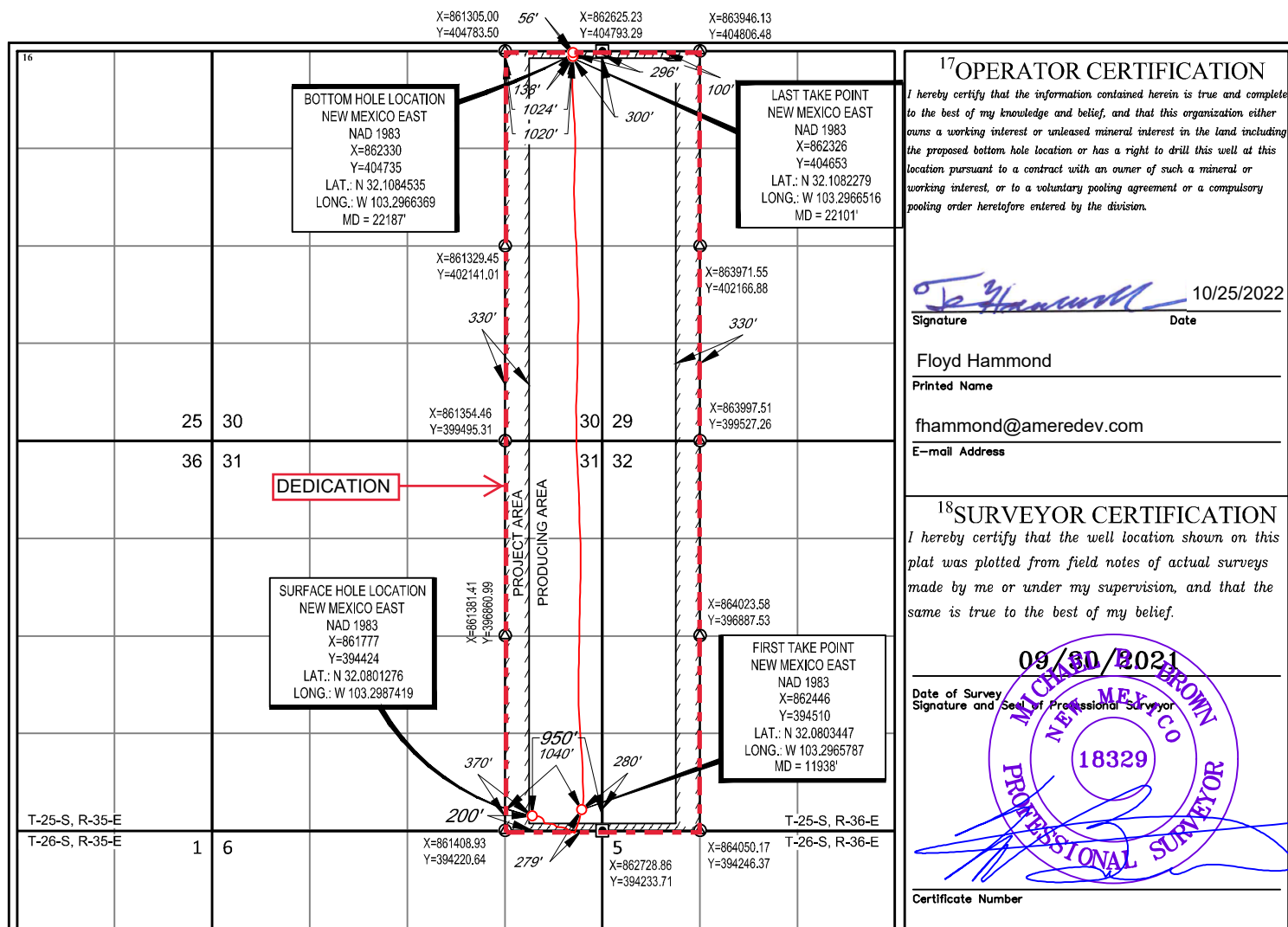
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	31	25-S	36-E	-	200'	SOUTH	950'	EAST	LEA

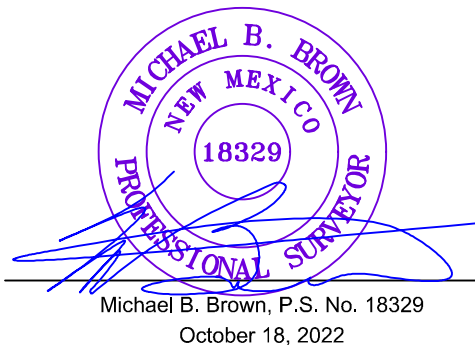
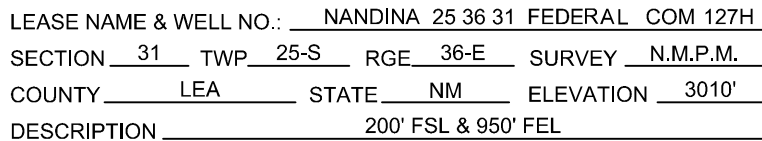
¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	30	25-S	36-E	-	56'	NORTH	296'	EAST	LEA

¹² Dedicated Acres 640	¹³ Joint or Infill	¹⁴ Consolidation Code C	¹⁵ Order No.
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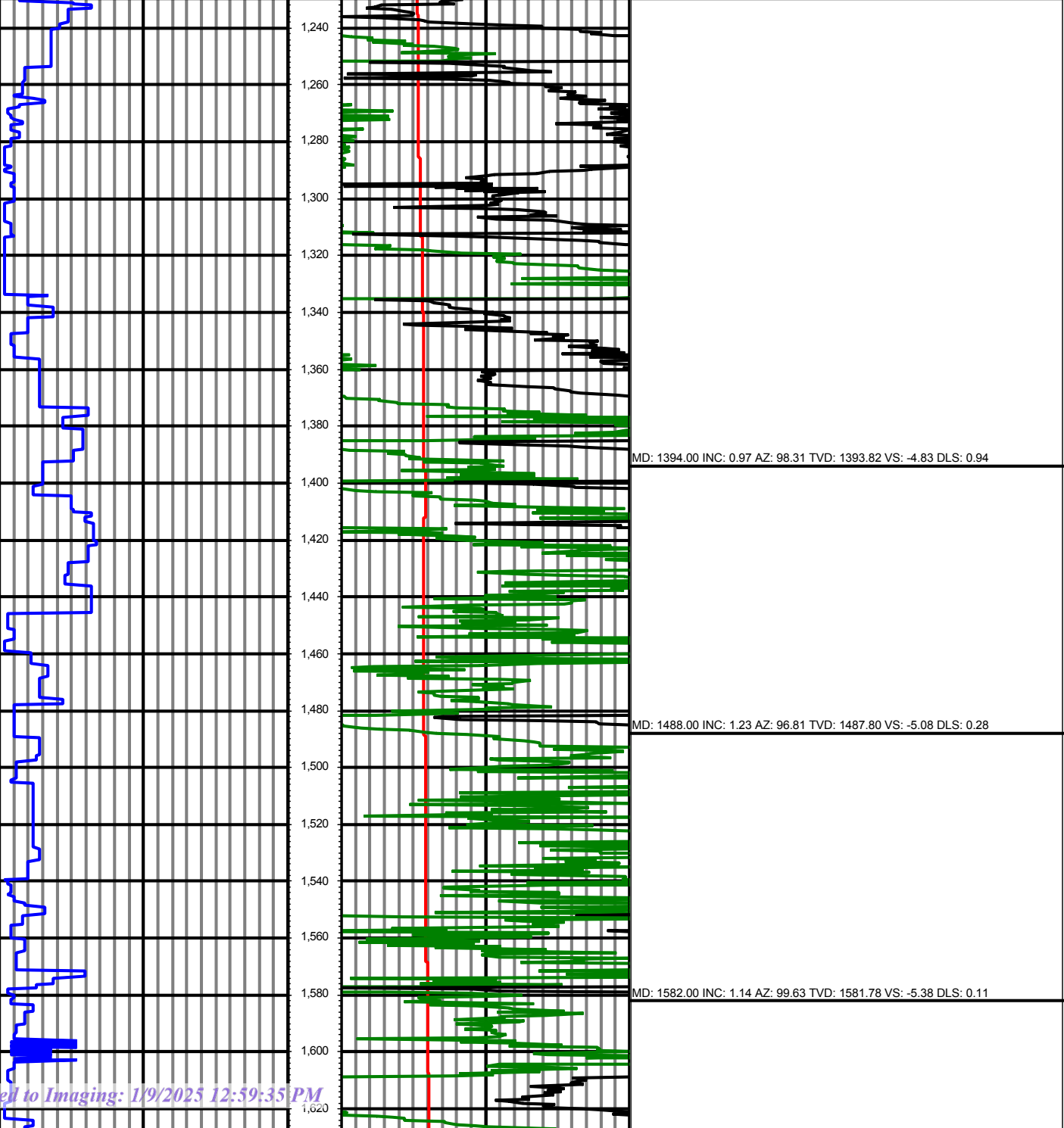
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

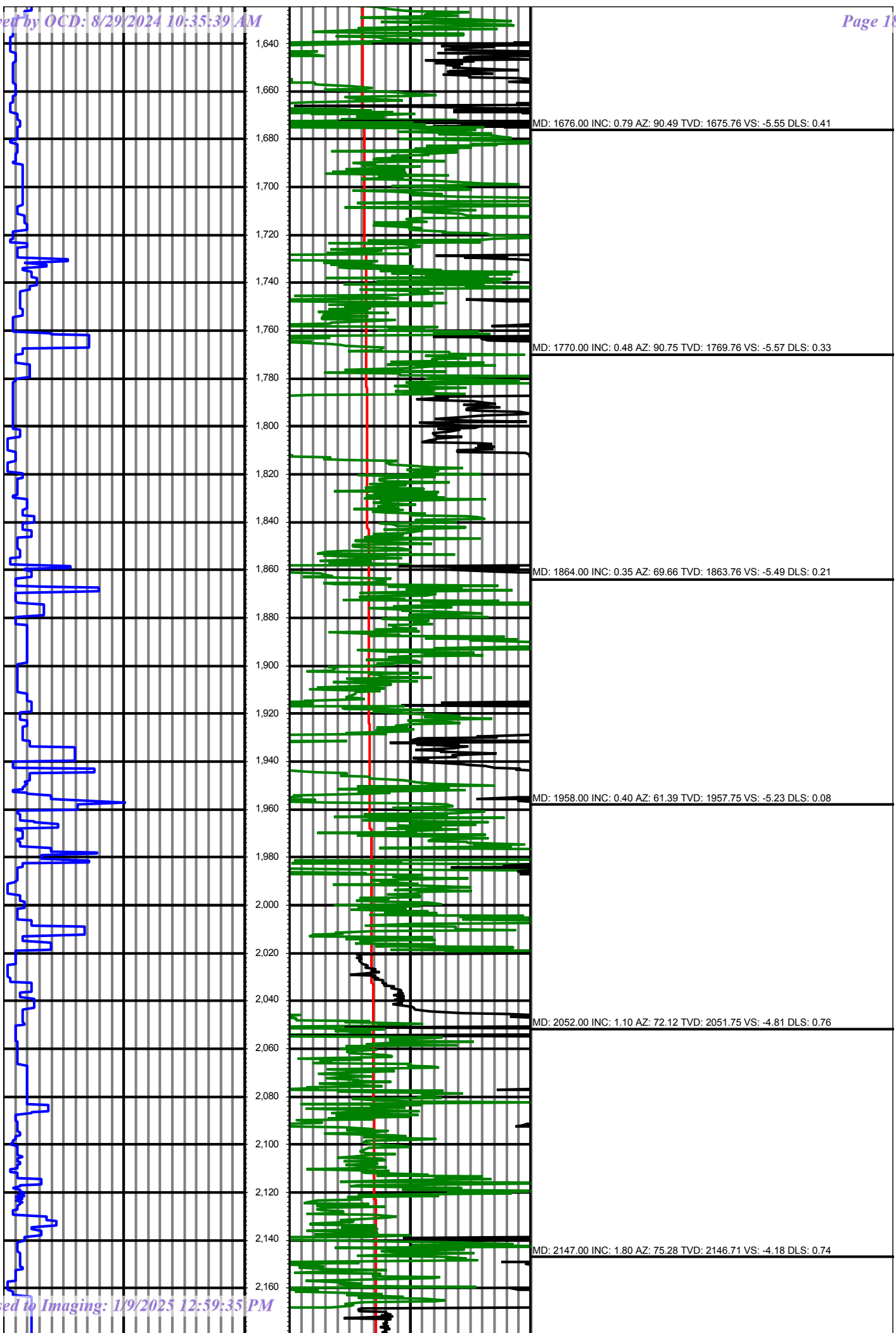


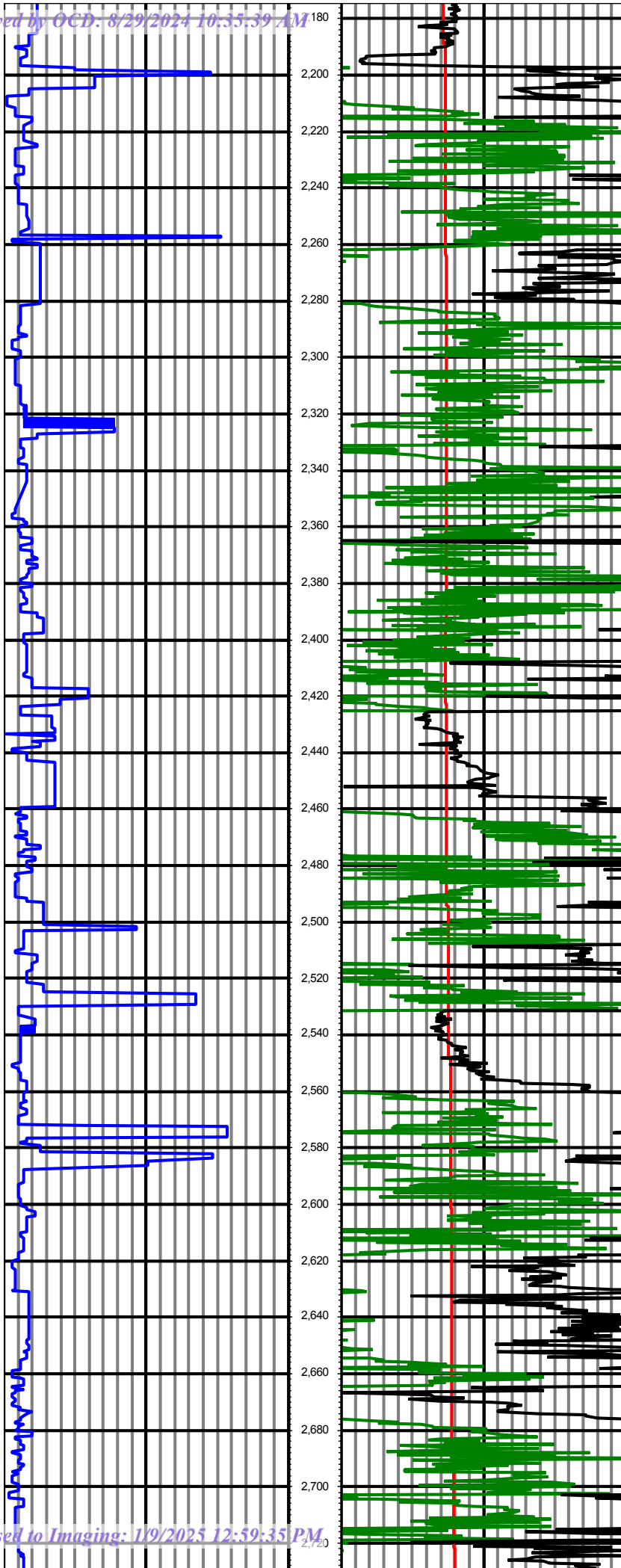


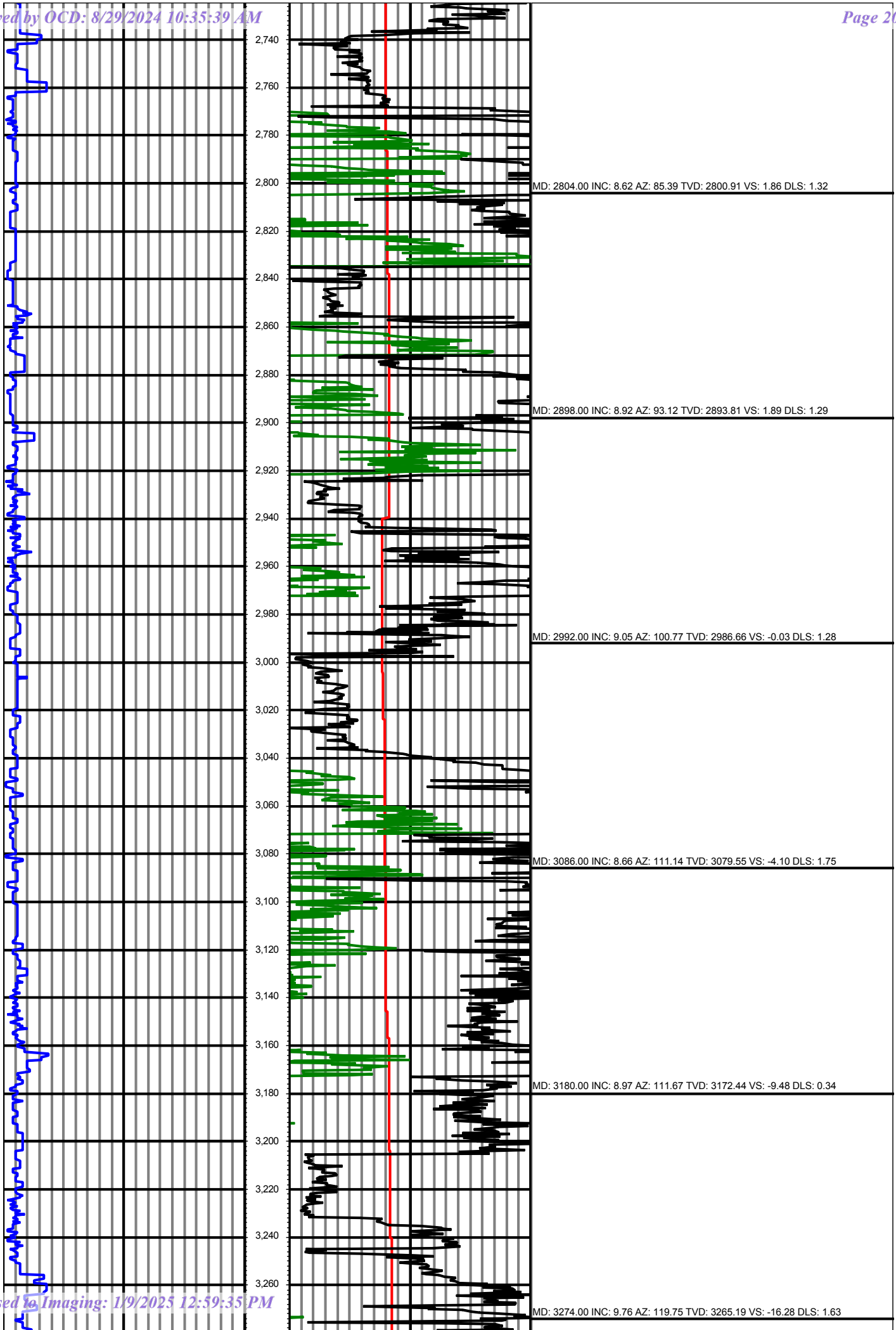
NANDINA 25 36 31 127H		REVISION:		NOTES: 1. ORIGINAL DOCUMENT SIZE: 8.5" X 11" 2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. 3. THIS WELL LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY AMEREDEV OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.
AS-DRILLED				
DATE:	10/18/22			
FILE:AD_NANDINA_FED_COM_25_36_31_127H				
DRAWN BY:	EAH			
SHEET :	2 OF 2			

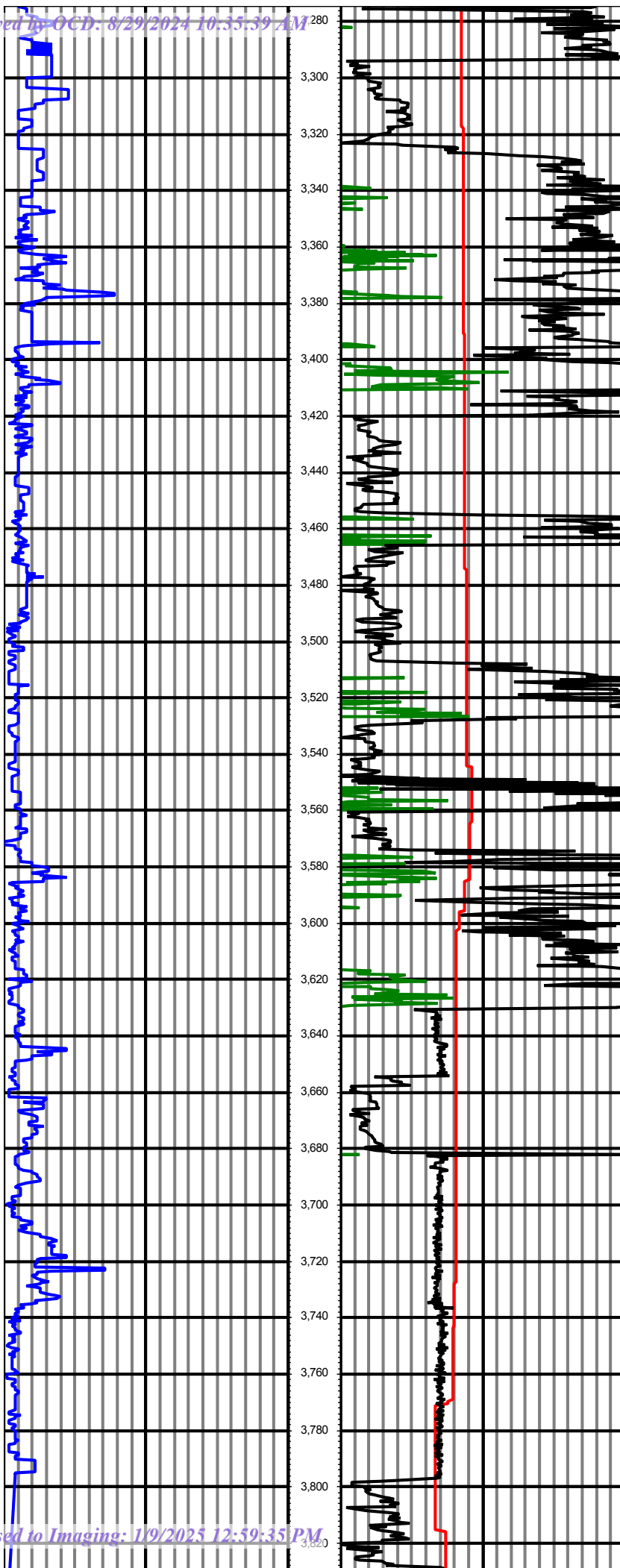
StartDate	1/13/2022				
EndDepth	22187.00				
EndDate	1/14/2022				
EndTime	12:45				
Hole Data			Casing Data		
Size	From	To	Size	From	To
17 1/2	0.00	1216.00	13.375	0.00	1206.00
9.875	1216.00	11191.00	10.75	0.00	5115.00
6.75	11191.00	22187.00	7.625	0.00	11171.00
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost damages or expenses incurred or sustained by anyone resulting from an interpretation made by any of our officers, agents, or employees.					

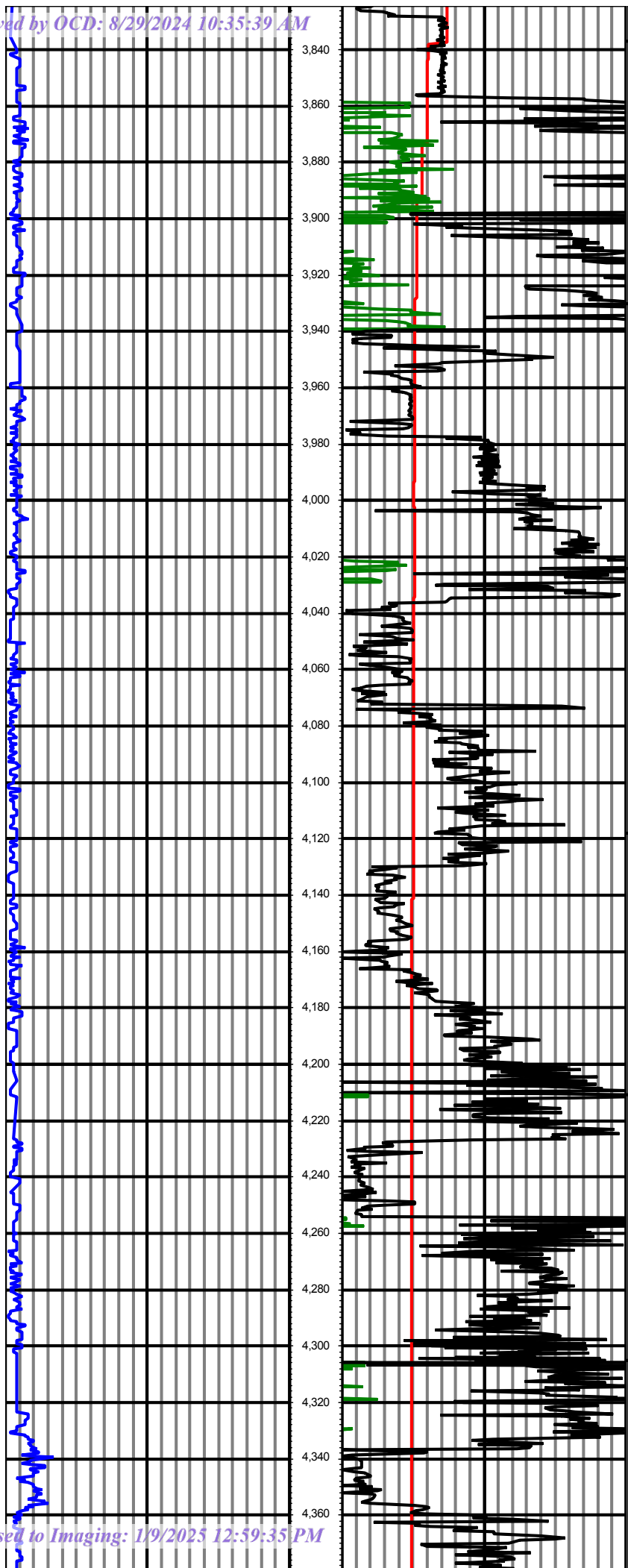












MD: 3837.00 INC: 4.97 AZ: 159.92 TVD: 3823.07 VS: -74.88 DLS: 1.24

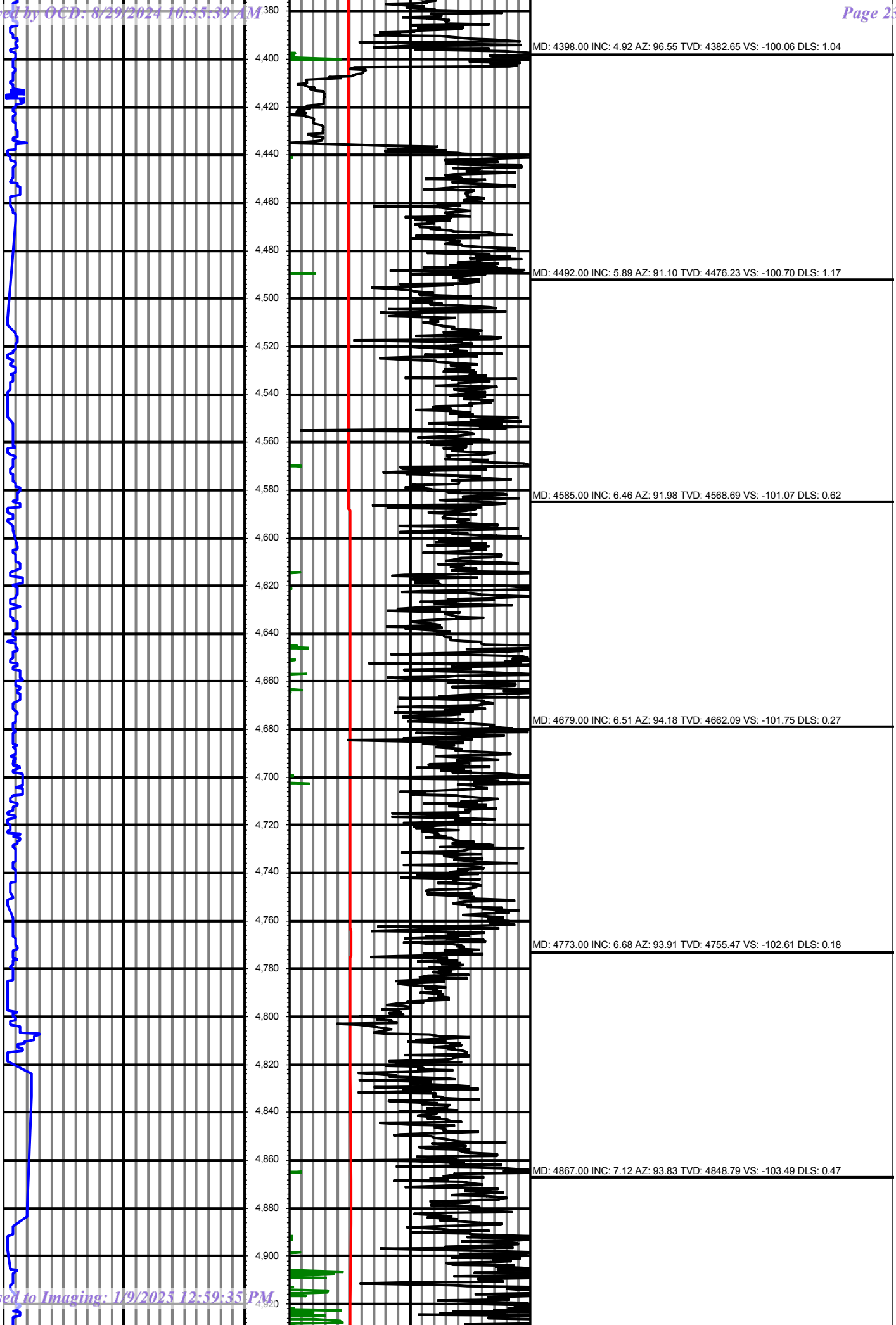
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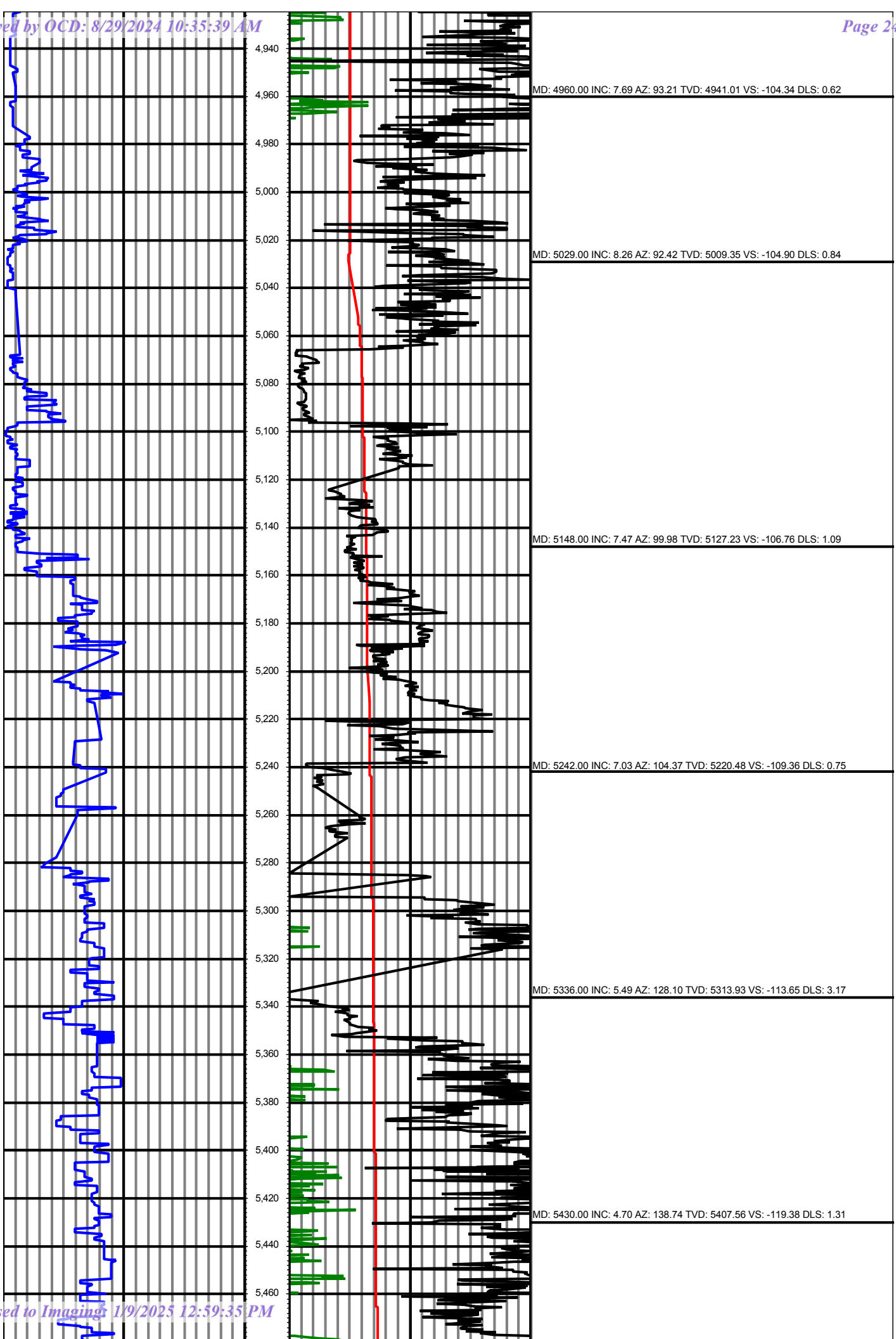
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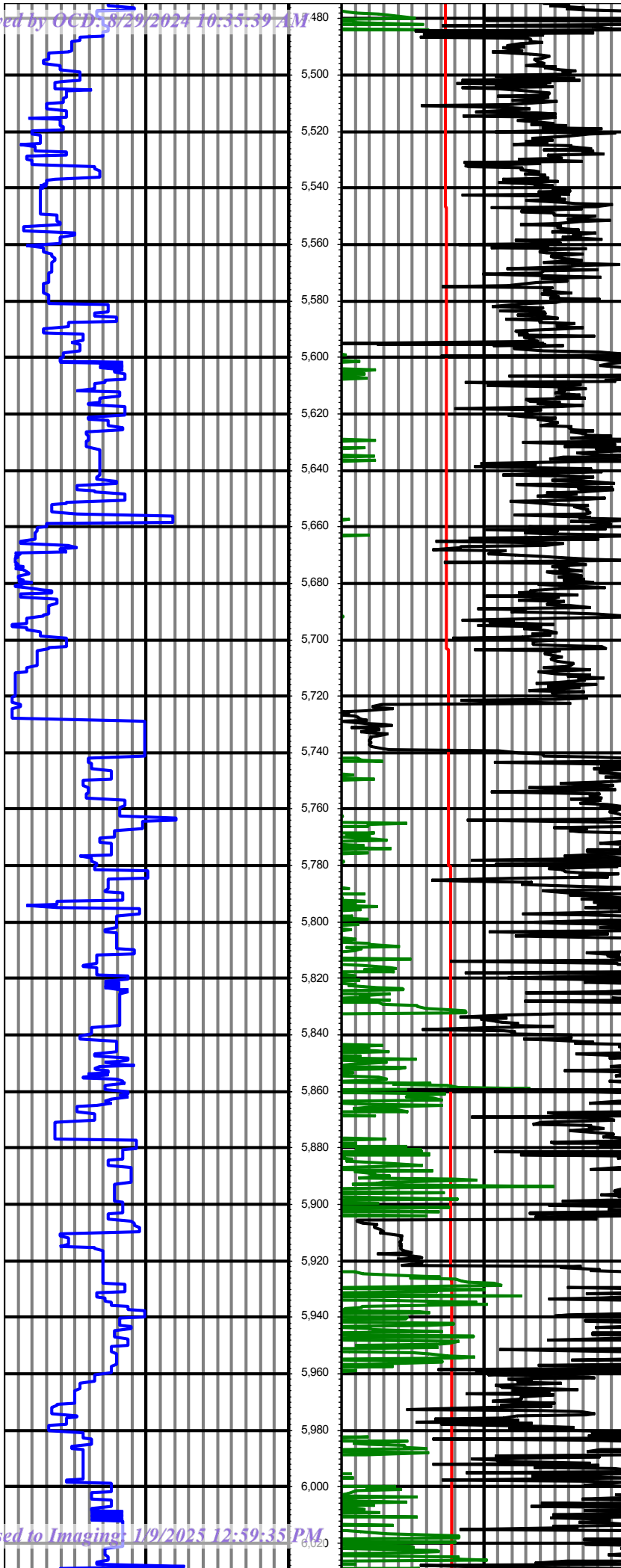
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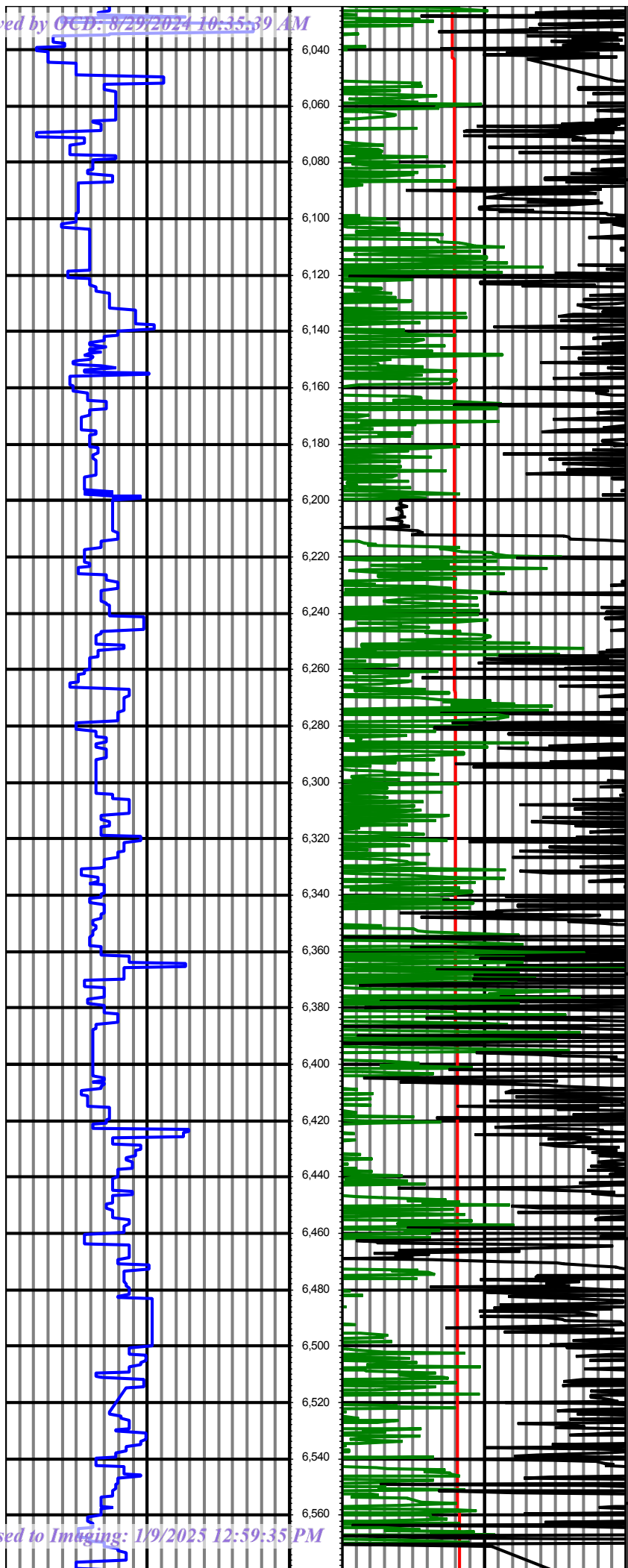
MD: 4211.00 INC: 3.91 AZ: 115.89 TVD: 4196.19 VS: -96.15 DLS: 1.65

MD: 4305.00 INC: 4.31 AZ: 105.87 TVD: 4289.95 VS: -98.58 DLS: 0.87









MD: 6086.00 INC: 4.62 AZ: 99.89 TVD: 6061.60 VS: -147.16 DLS: 0.23

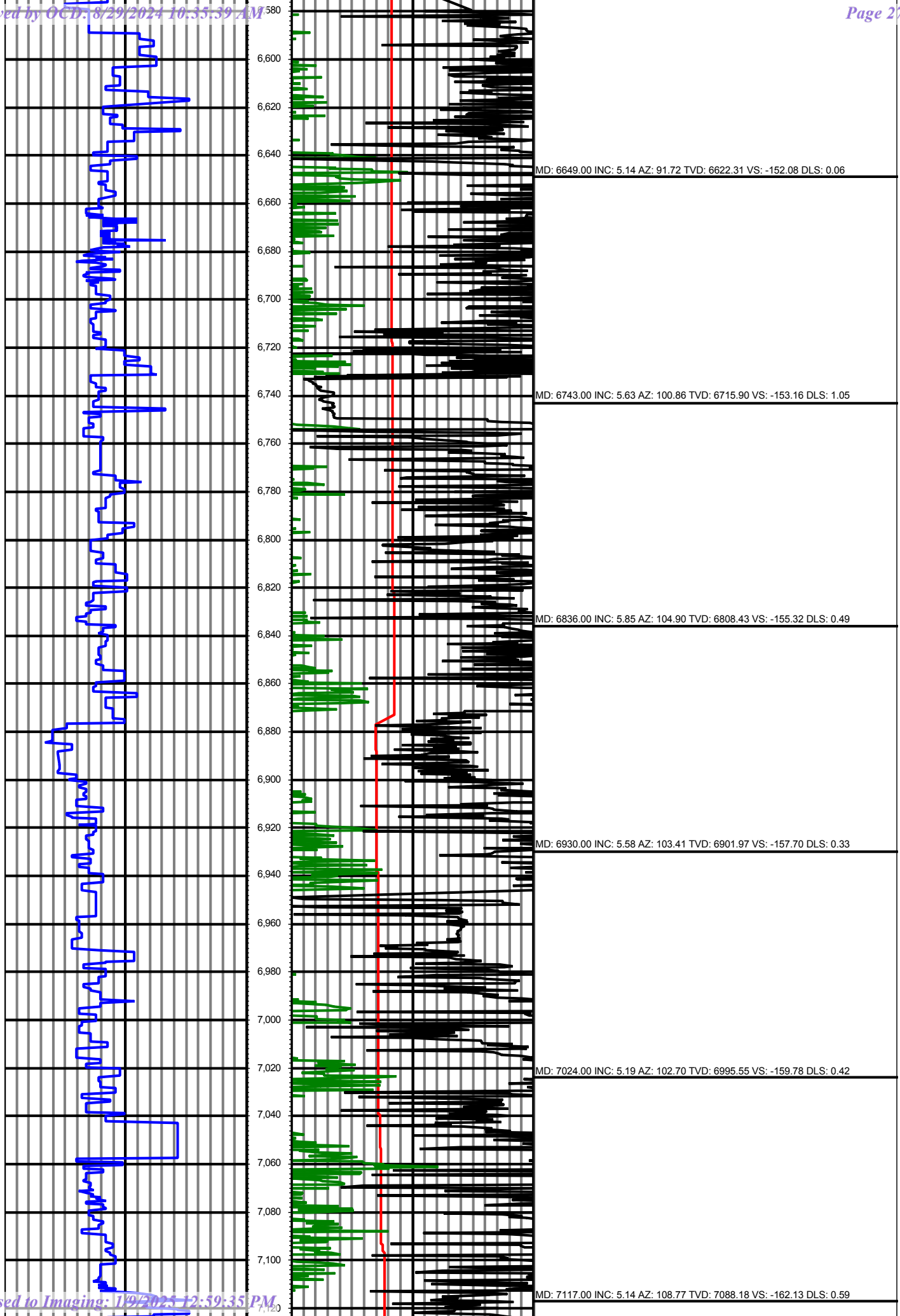
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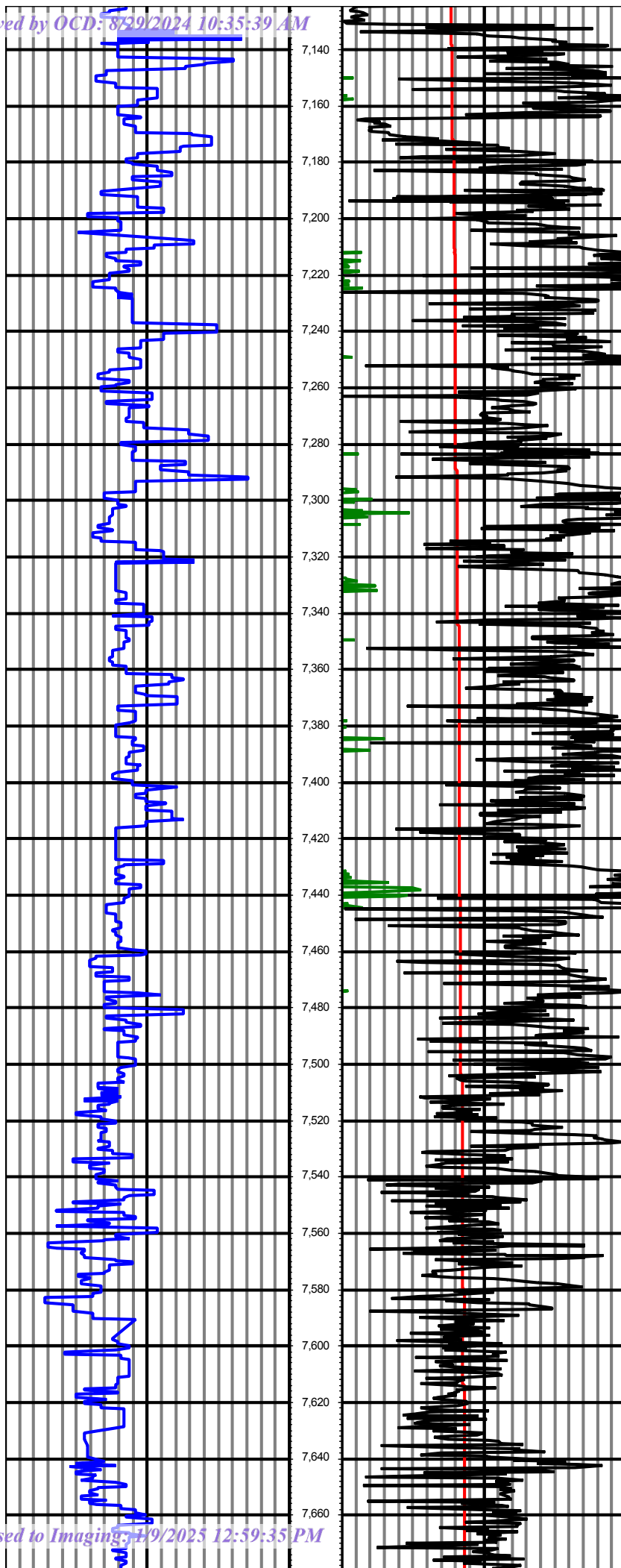
MD: 6274.00 INC: 5.49 AZ: 94.71 TVD: 6248.92 VS: -149.44 DLS: 0.95

MD: 6368.00 INC: 5.36 AZ: 95.14 TVD: 6342.50 VS: -150.29 DLS: 0.14

MD: 6462.00 INC: 5.36 AZ: 95.32 TVD: 6436.09 VS: -151.18 DLS: 0.02

MD: 6556.00 INC: 5.19 AZ: 91.37 TVD: 6529.69 VS: -151.77 DLS: 0.43





MD: 7211.00 INC: 4.75 AZ: 115.18 TVD: 7181.83 VS: -165.21 DLS: 0.72

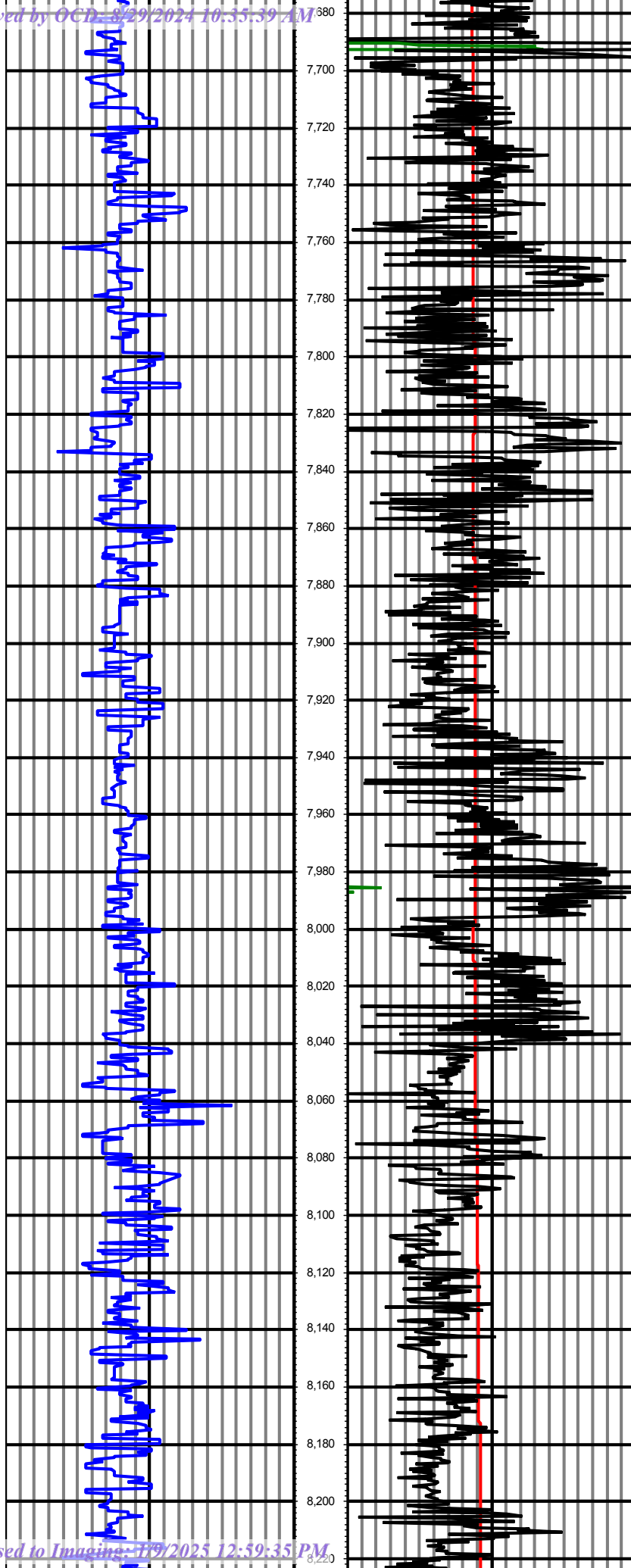
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MD: 7493.00 INC: 3.87 AZ: 115.71 TVD: 7463.01 VS: -174.38 DLS: 0.34

MD: 7587.00 INC: 3.56 AZ: 118.17 TVD: 7556.82 VS: -177.18 DLS: 0.37

MD: 7681.00 INC: 3.30 AZ: 118.61 TVD: 7650.65 VS: -179.91 DLS: 0.28



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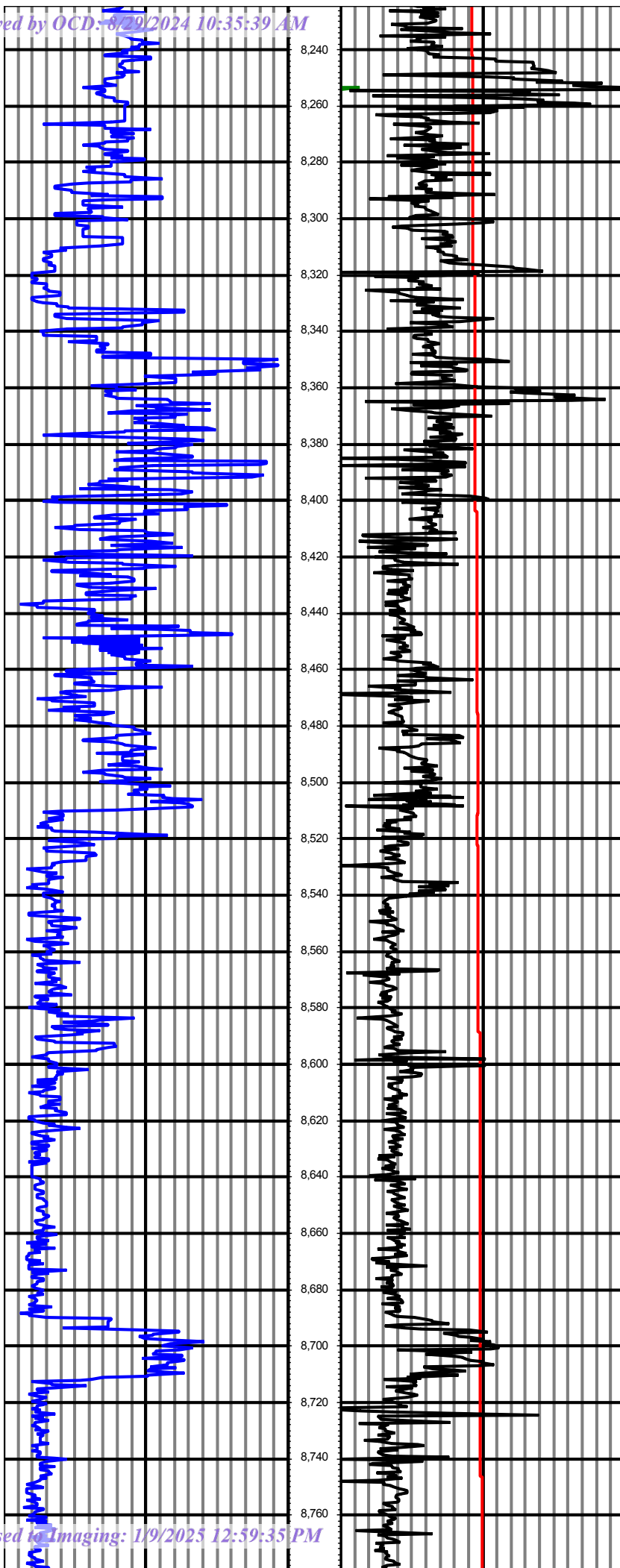
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MD: 7963.00 INC: 2.90 AZ: 121.95 TVD: 7932.26 VS: -187.29 DLS: 0.09

MD: 8057.00 INC: 3.08 AZ: 122.92 TVD: 8026.13 VS: -189.97 DLS: 0.20

MD: 8151.00 INC: 3.08 AZ: 122.39 TVD: 8120.00 VS: -192.73 DLS: 0.03



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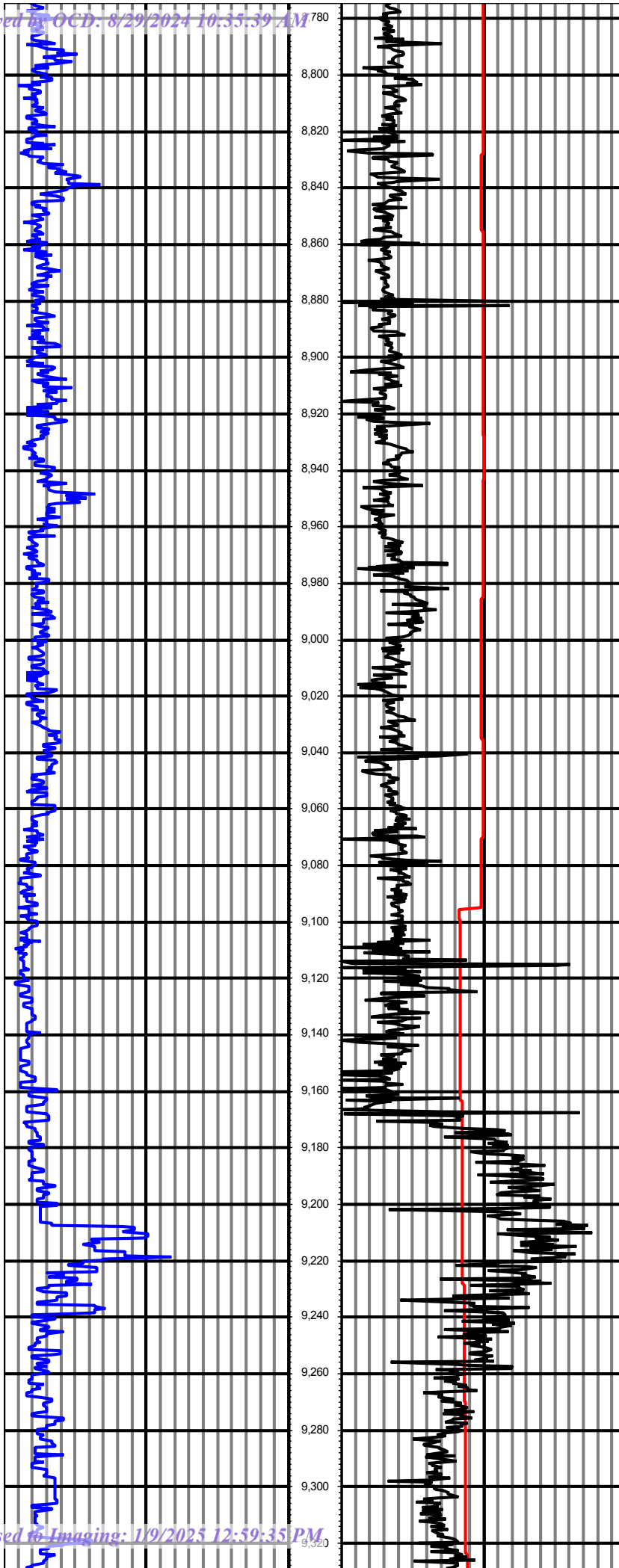
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MD: 8433.00 INC: 2.15 AZ: 129.07 TVD: 8401.68 VS: -200.47 DLS: 0.45

MD: 8527.00 INC: 2.24 AZ: 136.89 TVD: 8495.61 VS: -202.94 DLS: 0.33

MD: 8620.00 INC: 2.11 AZ: 138.30 TVD: 8588.54 VS: -205.57 DLS: 0.15

MD: 8715.00 INC: 1.67 AZ: 134.34 TVD: 8683.49 VS: -207.87 DLS: 0.48



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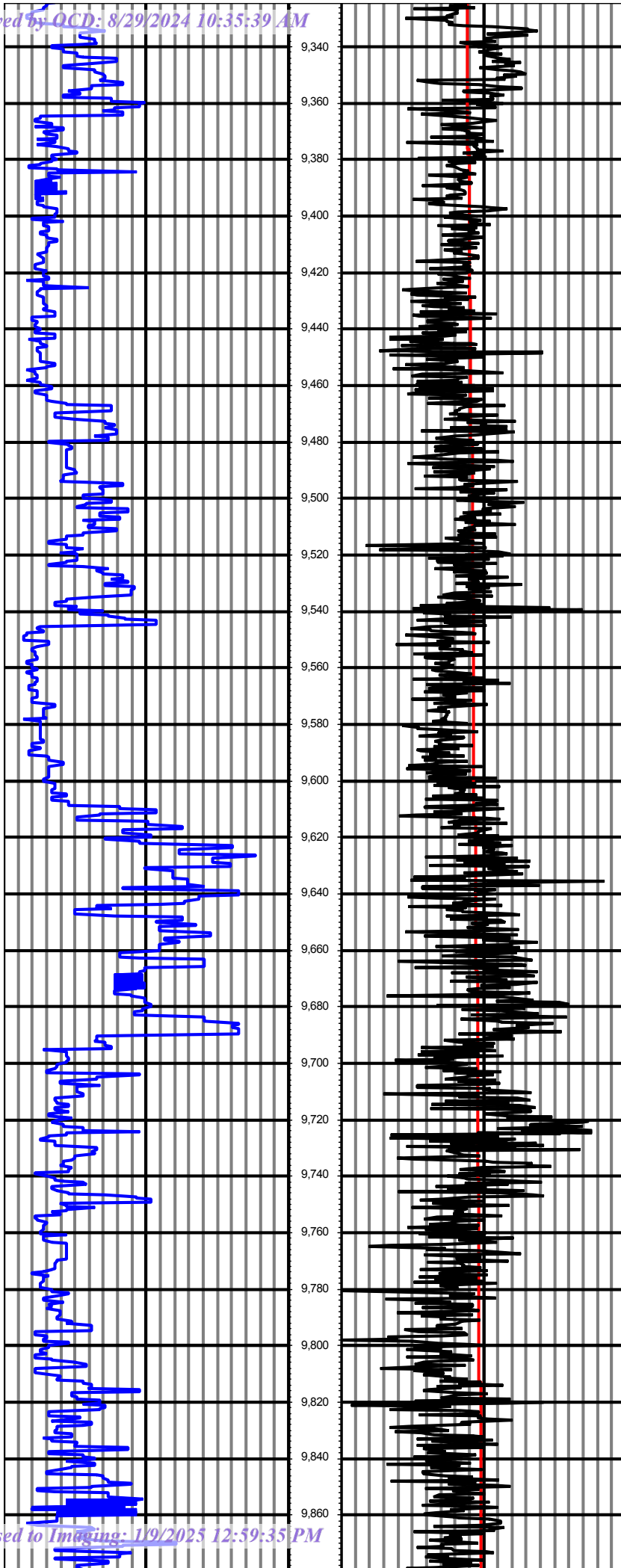
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MD: 9090.00 INC: 2.11 AZ: 138.91 TVD: 9058.32 VS: -215.86 DLS: 0.49

MD: 9184.00 INC: 2.37 AZ: 136.80 TVD: 9152.25 VS: -218.60 DLS: 0.29

MD: 9278.00 INC: 2.20 AZ: 128.46 TVD: 9246.18 VS: -221.17 DLS: 0.40



MD: 9371.00 INC: 1.93 AZ: 109.56 TVD: 9339.12 VS: -222.83 DLS: 0.78

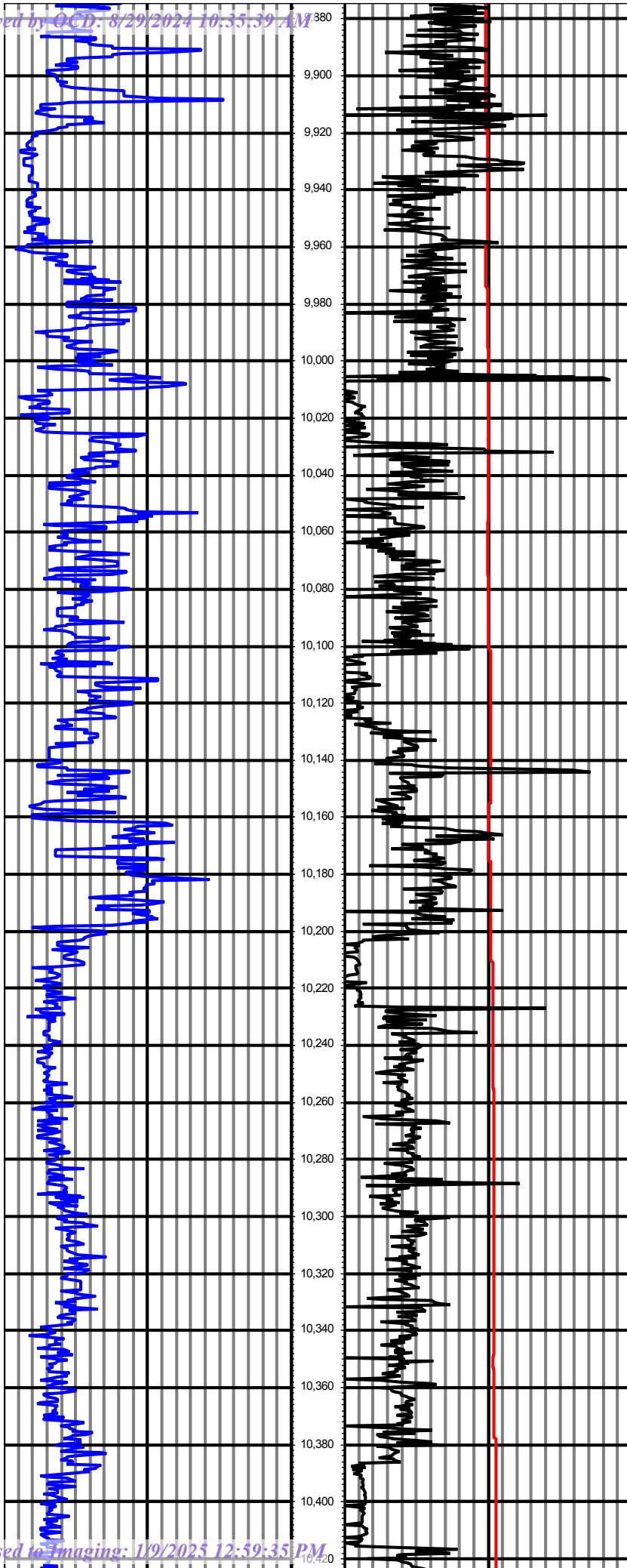
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MD: 9653.00 INC: 1.89 AZ: 75.11 TVD: 9620.97 VS: -222.65 DLS: 0.12

MD: 9746.00 INC: 1.58 AZ: 68.51 TVD: 9713.93 VS: -221.81 DLS: 0.40

MD: 9839.00 INC: 1.98 AZ: 41.62 TVD: 9806.88 VS: -220.16 DLS: 0.98



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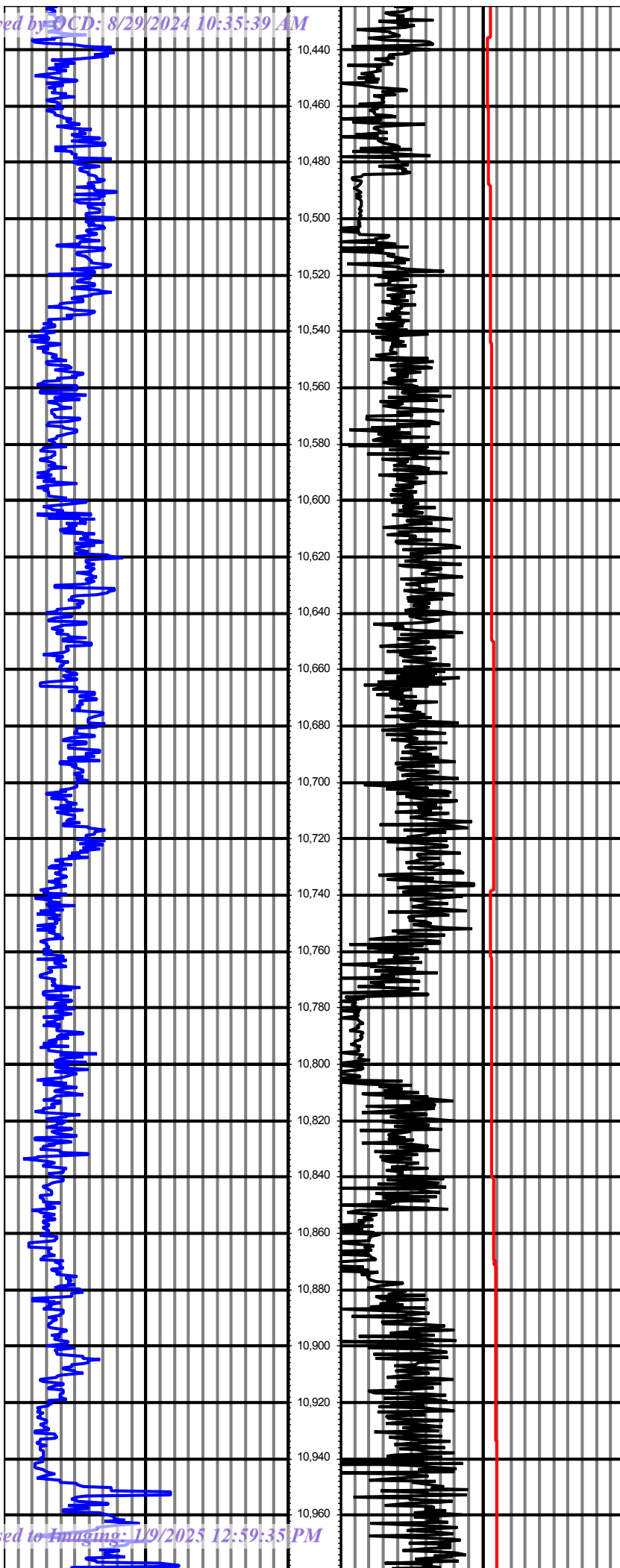
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MD: 10214.00 INC: 3.74 AZ: 96.02 TVD: 10181.40 VS: -213.16 DLS: 1.09

MD: 10307.00 INC: 2.55 AZ: 95.76 TVD: 10274.26 VS: -213.74 DLS: 1.28

MD: 10401.00 INC: 1.76 AZ: 116.94 TVD: 10368.20 VS: -214.64 DLS: 1.18



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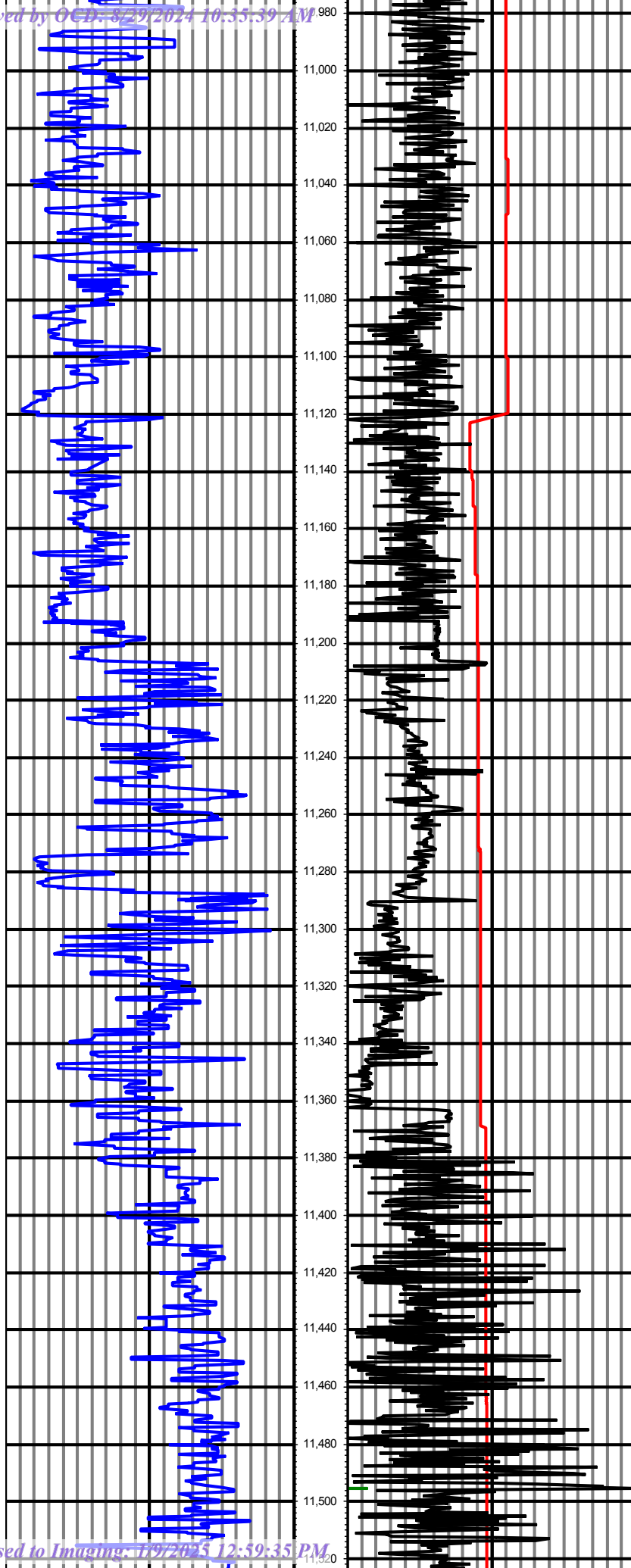
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MD: 10775.00 INC: 1.05 AZ: 215.73 TVD: 10741.96 VS: -224.35 DLS: 2.26

MD: 10868.00 INC: 1.19 AZ: 130.92 TVD: 10834.95 VS: -225.68 DLS: 1.63

MD: 10961.00 INC: 1.36 AZ: 152.80 TVD: 10927.93 VS: -227.30 DLS: 0.55



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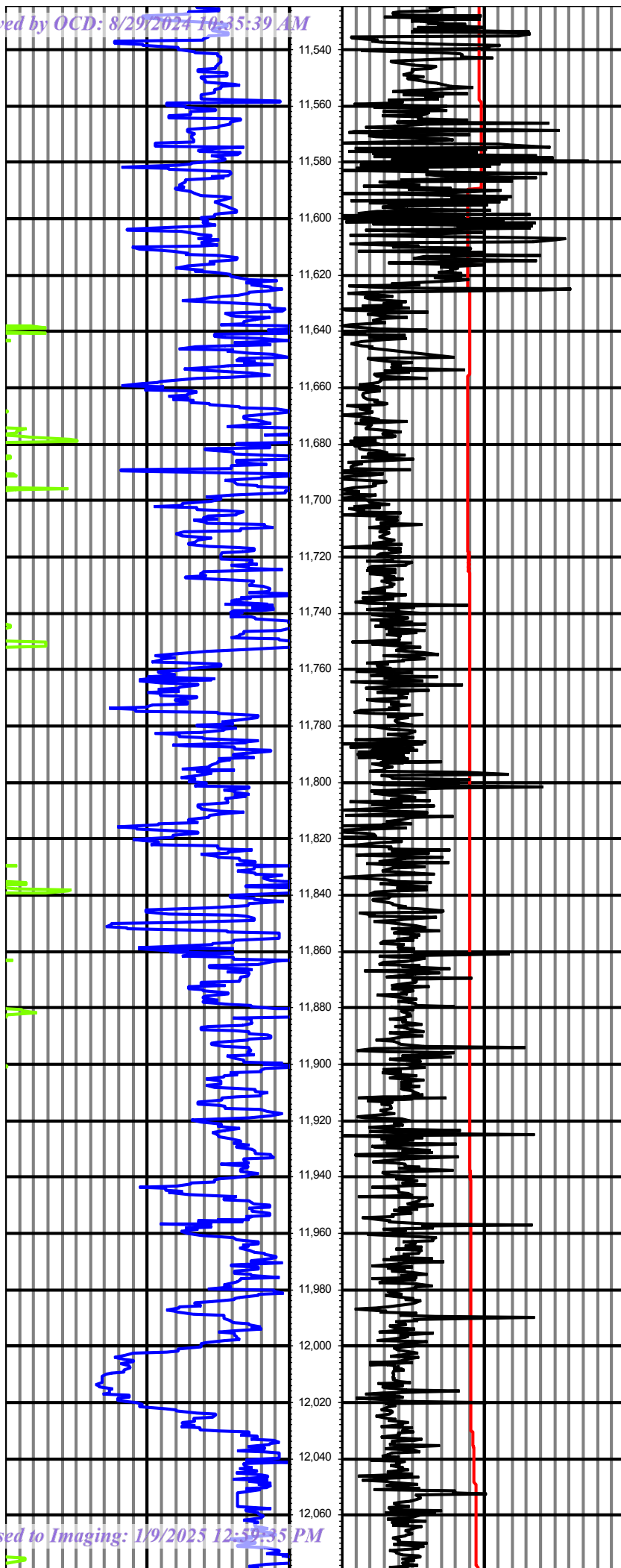
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MD: 11366.00 INC: 6.95 AZ: 34.83 TVD: 11332.66 VS: -228.67 DLS: 8.25

MD: 11413.00 INC: 12.26 AZ: 14.44 TVD: 11379.00 VS: -221.52 DLS: 13.25

MD: 11461.00 INC: 18.24 AZ: 17.87 TVD: 11425.29 VS: -209.46 DLS: 12.59



MD: 11557.00 INC: 24.00 AZ: 20.59 TVD: 11514.80 VS: -176.97 DLS: 6.08

MD: 11589.00 INC: 26.95 AZ: 22.88 TVD: 11543.69 VS: -164.24 DLS: 9.72

MD: 11620.00 INC: 31.38 AZ: 24.28 TVD: 11570.75 VS: -150.47 DLS: 14.46

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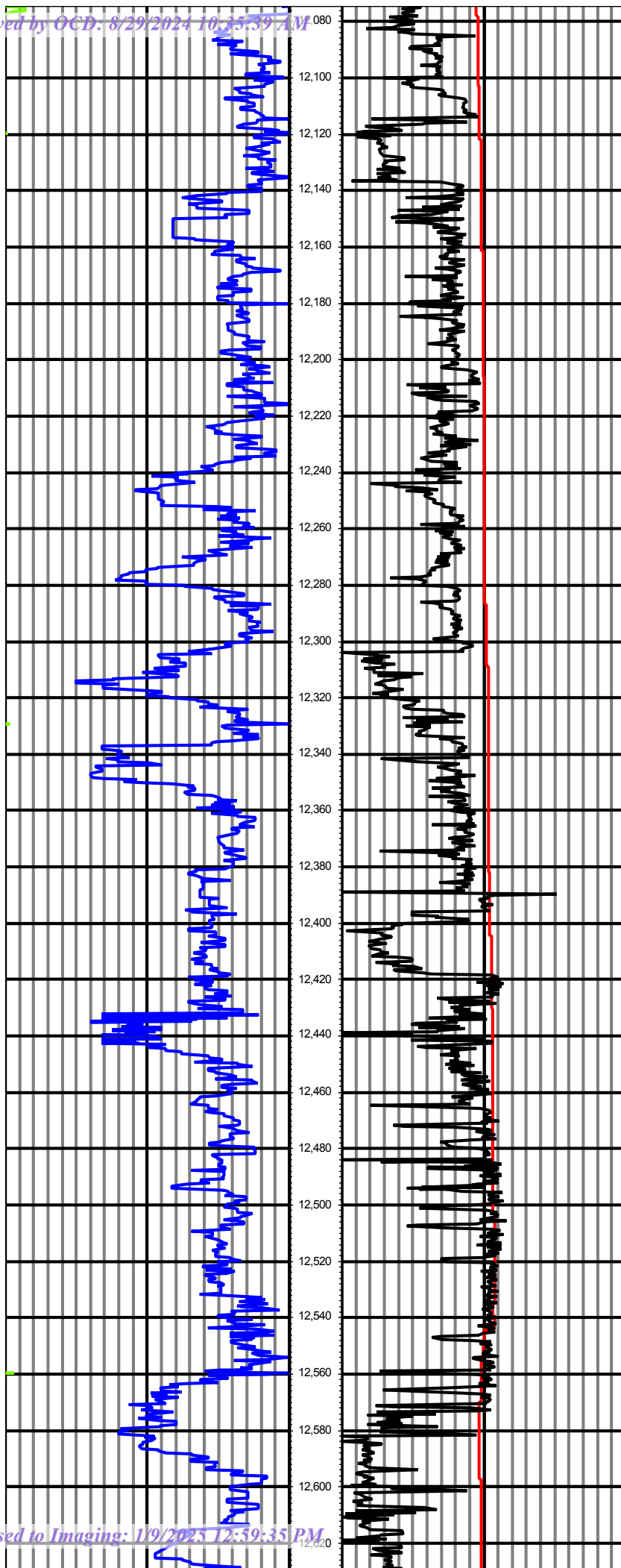
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MD: 11843.00 INC: 57.19 AZ: 13.39 TVD: 11729.83 VS: -4.66 DLS: 12.45

MD: 11939.00 INC: 71.25 AZ: 13.47 TVD: 11771.47 VS: 79.01 DLS: 14.65

MD: 12034.00 INC: 86.68 AZ: 8.46 TVD: 11789.61 VS: 170.09 DLS: 17.04



MD: 12130.00 INC: 90.20 AZ: 359.15 TVD: 11792.23 VS: 265.66 DLS: 10.36

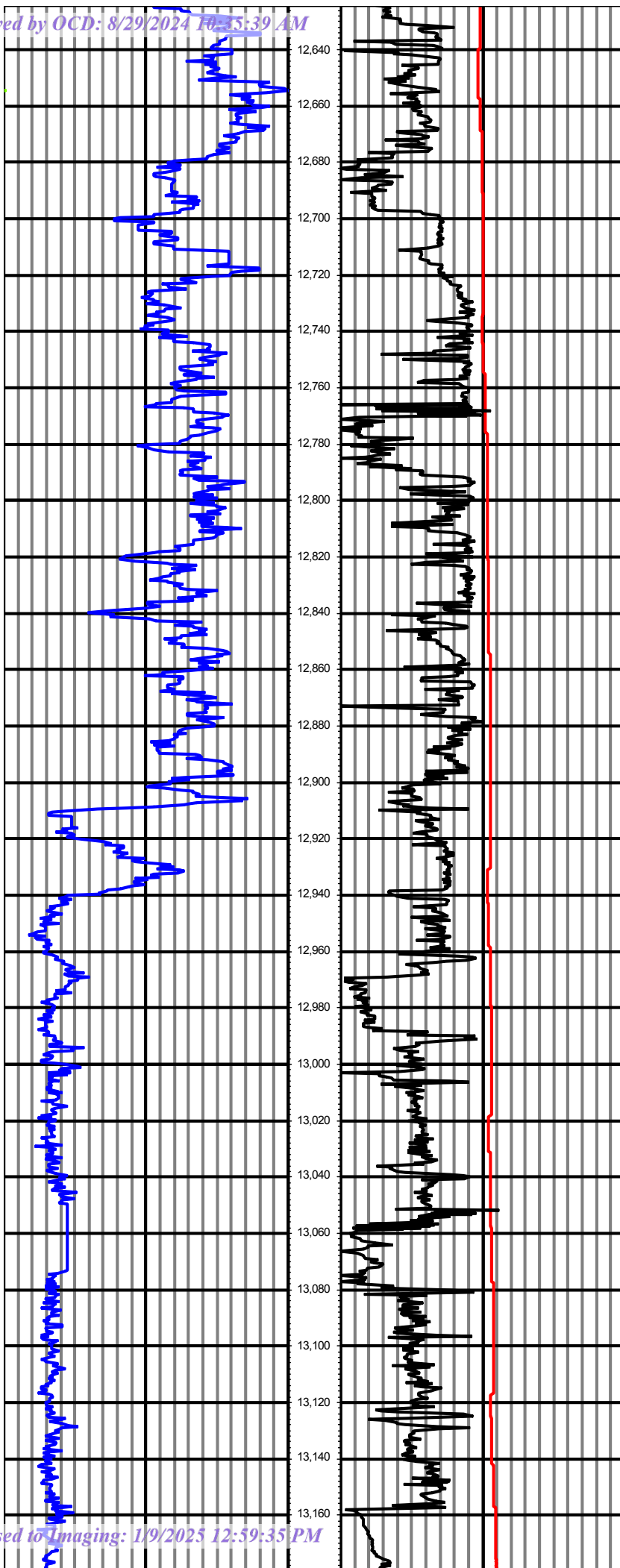
MD: 12225.00 INC: 86.11 AZ: 356.78 TVD: 11795.29 VS: 360.55 DLS: 4.97

MD: 12320.00 INC: 88.44 AZ: 358.18 TVD: 11799.81 VS: 455.38 DLS: 2.86

MD: 12416.00 INC: 94.81 AZ: 359.32 TVD: 11797.09 VS: 551.28 DLS: 6.74

MD: 12511.00 INC: 97.49 AZ: 358.71 TVD: 11786.91 VS: 645.72 DLS: 2.89

MD: 12607.00 INC: 93.76 AZ: 356.25 TVD: 11777.50 VS: 741.18 DLS: 4.65



MD: 12701.00 INC: 90.55 AZ: 354.75 TVD: 11773.97 VS: 834.88 DLS: 3.77

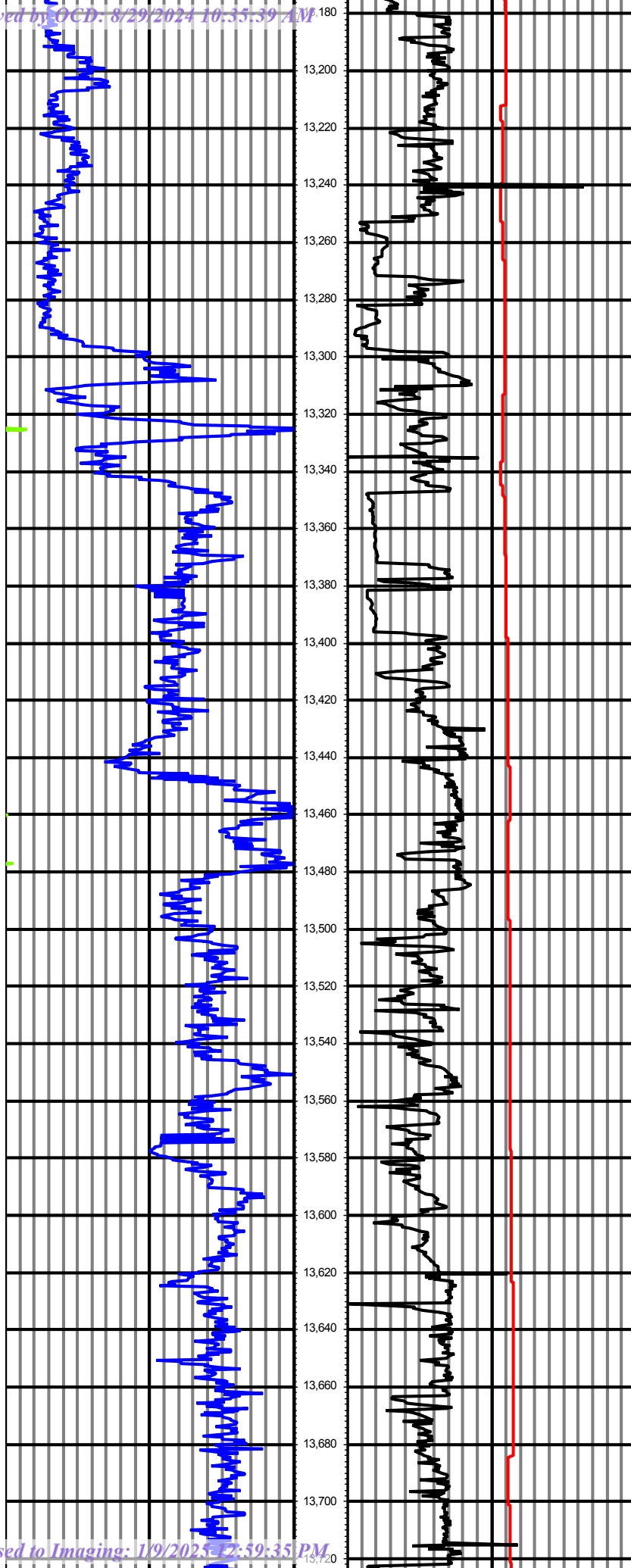
MD: 12796.00 INC: 89.10 AZ: 356.42 TVD: 11774.26 VS: 929.66 DLS: 2.33

MD: 12892.00 INC: 88.40 AZ: 355.63 TVD: 11776.35 VS: 1025.46 DLS: 1.10

MD: 12987.00 INC: 87.08 AZ: 356.34 TVD: 11780.10 VS: 1120.21 DLS: 1.58

MD: 13082.00 INC: 88.40 AZ: 356.34 TVD: 11783.84 VS: 1215.00 DLS: 1.39

MD: 13177.00 INC: 89.36 AZ: 356.60 TVD: 11785.70 VS: 1309.85 DLS: 1.05



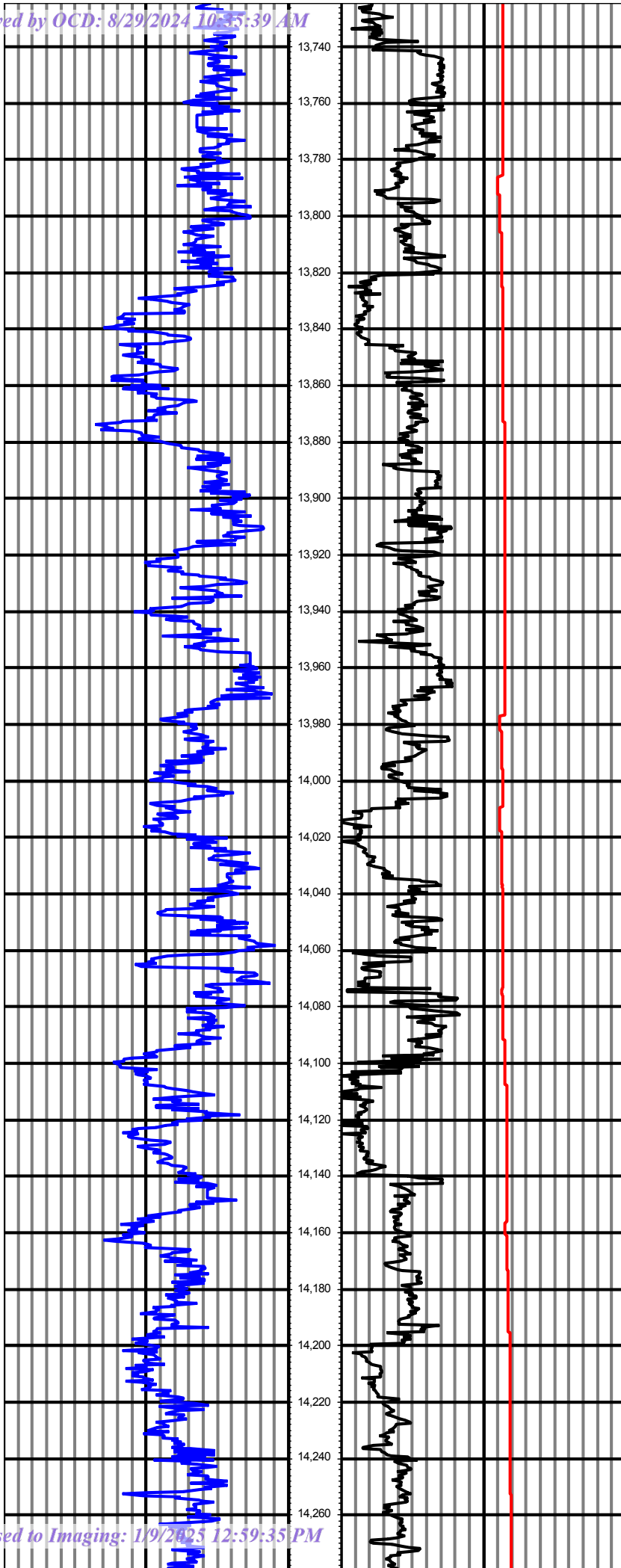
MD: 13272.00 INC: 90.55 AZ: 356.95 TVD: 11785.77 VS: 1404.75 DLS: 1.31

MD: 13367.00 INC: 89.89 AZ: 359.76 TVD: 11785.41 VS: 1499.72 DLS: 3.04

MD: 13462.00 INC: 91.87 AZ: 359.94 TVD: 11783.95 VS: 1594.70 DLS: 2.09

MD: 13557.00 INC: 90.73 AZ: 359.24 TVD: 11781.80 VS: 1689.67 DLS: 1.41

MD: 13652.00 INC: 86.59 AZ: 358.27 TVD: 11784.02 VS: 1784.62 DLS: 4.48



MD: 13747.00 INC: 85.85 AZ: 0.64 TVD: 11790.28 VS: 1879.40 DLS: 2.61

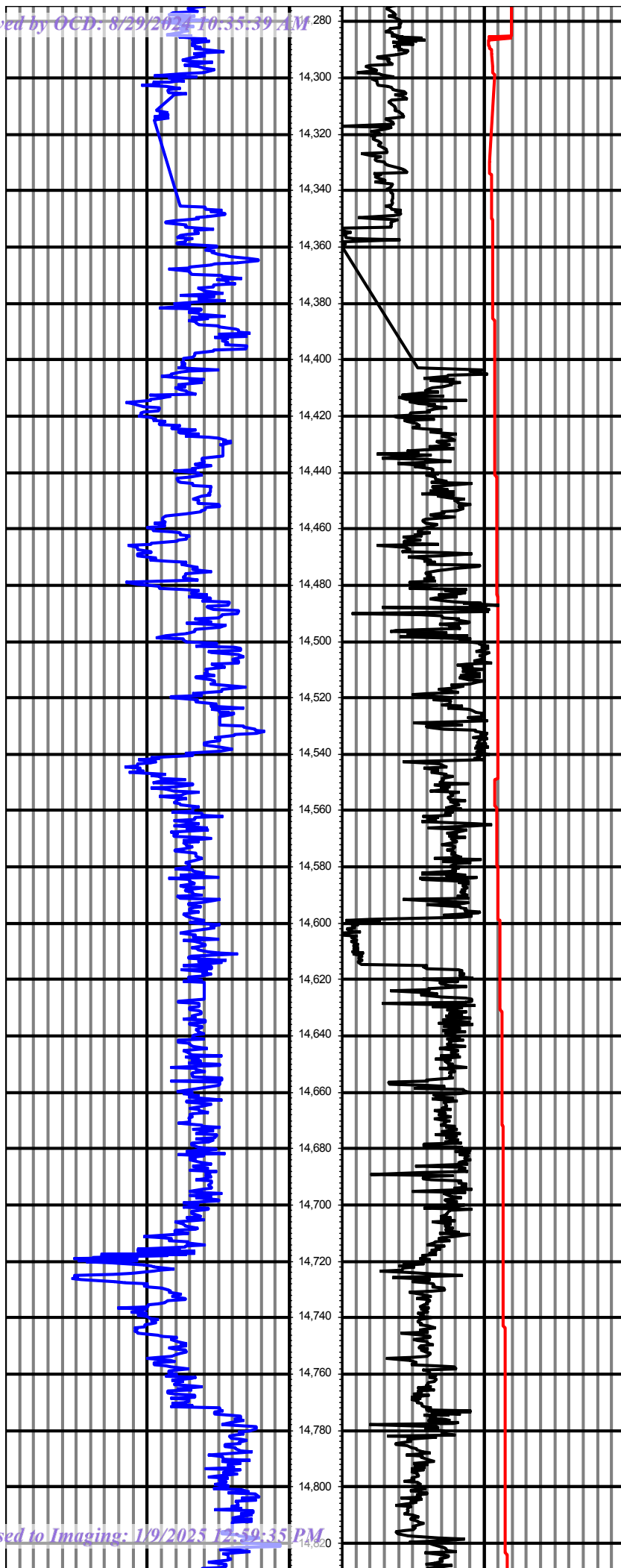
MD: 13842.00 INC: 88.57 AZ: 2.40 TVD: 11794.90 VS: 1974.22 DLS: 3.41

MD: 13937.00 INC: 85.80 AZ: 0.55 TVD: 11799.57 VS: 2069.03 DLS: 3.50

MD: 14032.00 INC: 86.46 AZ: 1.17 TVD: 11805.98 VS: 2163.78 DLS: 0.95

MD: 14127.00 INC: 89.98 AZ: 1.43 TVD: 11808.93 VS: 2258.67 DLS: 3.72

MD: 14222.00 INC: 92.26 AZ: 1.08 TVD: 11807.08 VS: 2353.60 DLS: 2.43



MD: 14318.00 INC: 92.48 AZ: 0.38 TVD: 11803.11 VS: 2449.49 DLS: 0.76

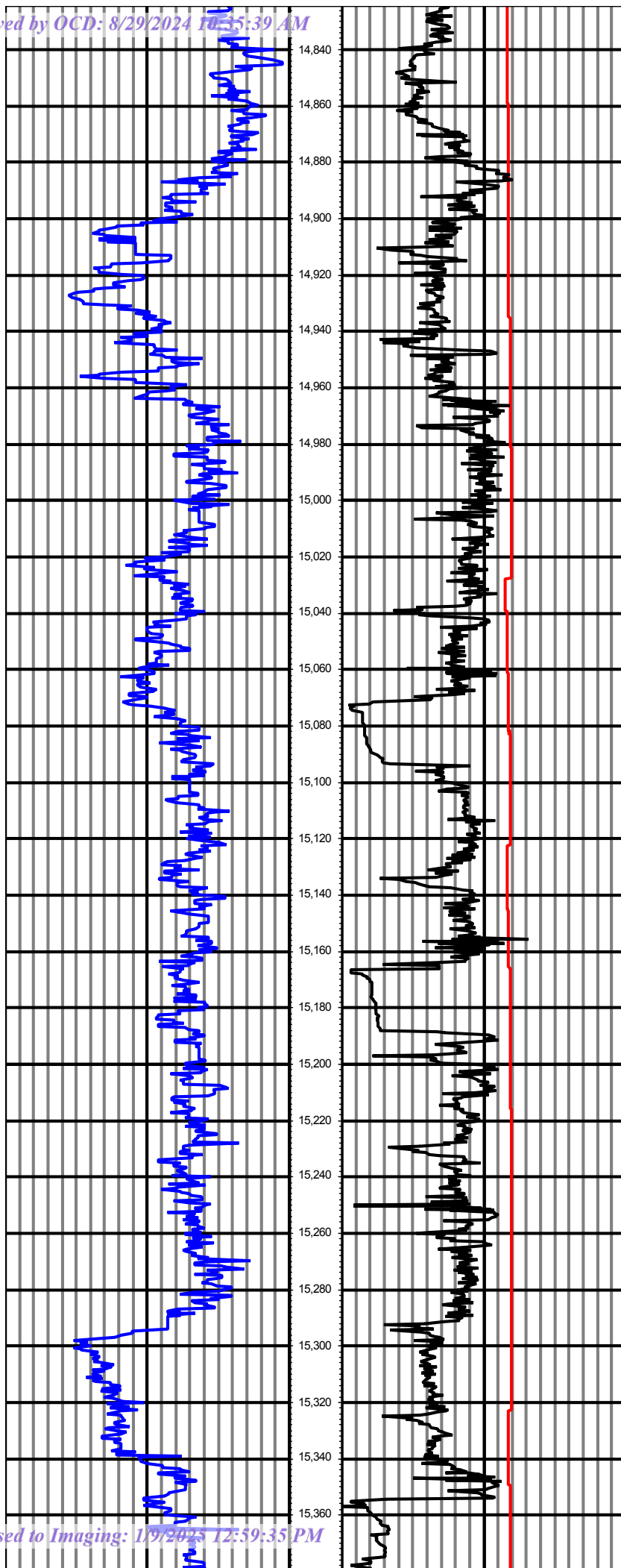
MD: 14413.00 INC: 92.26 AZ: 0.91 TVD: 11799.18 VS: 2544.39 DLS: 0.60

MD: 14509.00 INC: 92.75 AZ: 0.73 TVD: 11794.98 VS: 2640.27 DLS: 0.54

MD: 14604.00 INC: 91.52 AZ: 1.26 TVD: 11791.44 VS: 2735.17 DLS: 1.41

MD: 14700.00 INC: 89.71 AZ: 0.47 TVD: 11790.41 VS: 2831.13 DLS: 2.06

MD: 14795.00 INC: 88.79 AZ: 1.43 TVD: 11791.66 VS: 2926.08 DLS: 1.40



MD: 14891.00 INC: 89.05 AZ: 1.96 TVD: 11793.46 VS: 3021.99 DLS: 0.61

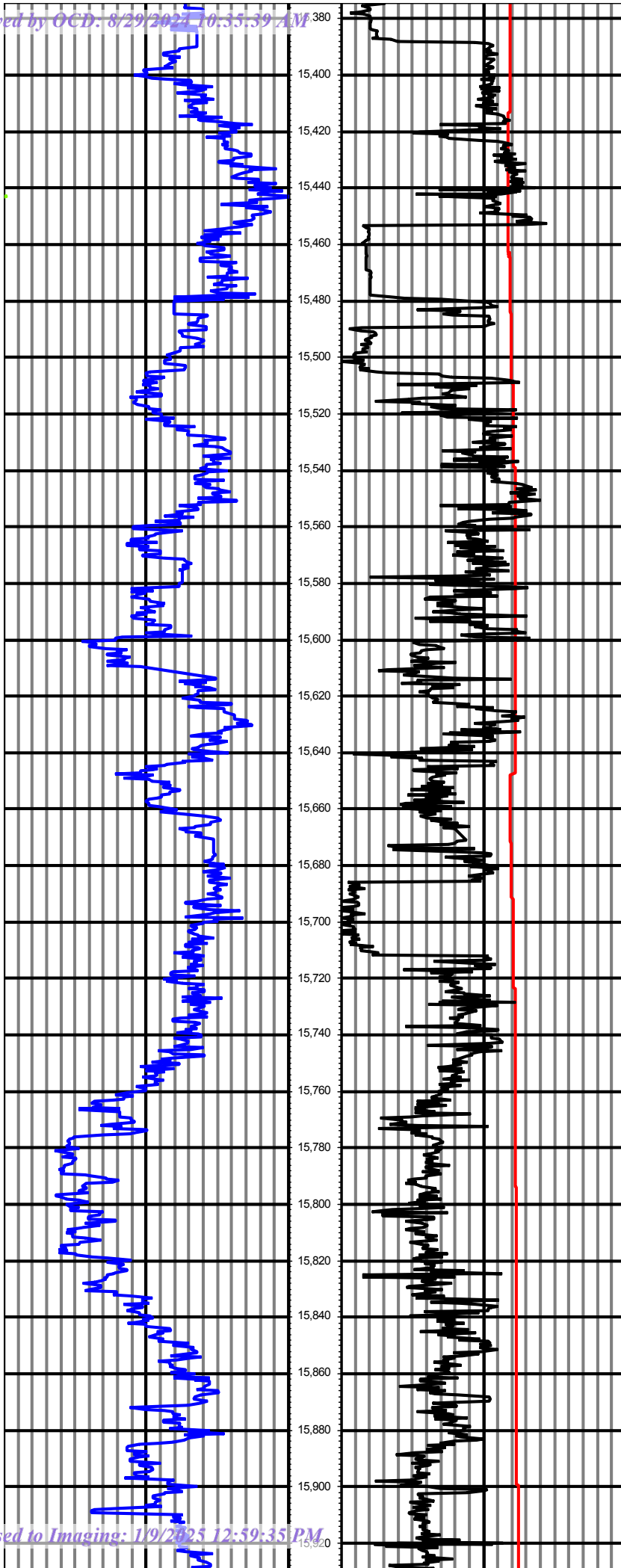
MD: 14986.00 INC: 88.09 AZ: 2.40 TVD: 11795.84 VS: 3116.85 DLS: 1.11

MD: 15081.00 INC: 85.71 AZ: 0.29 TVD: 11800.97 VS: 3211.65 DLS: 3.35

MD: 15176.00 INC: 86.77 AZ: 359.68 TVD: 11807.20 VS: 3306.44 DLS: 1.29

MD: 15271.00 INC: 86.42 AZ: 0.55 TVD: 11812.85 VS: 3401.26 DLS: 0.99

MD: 15367.00 INC: 87.34 AZ: 1.52 TVD: 11818.07 VS: 3497.08 DLS: 1.39



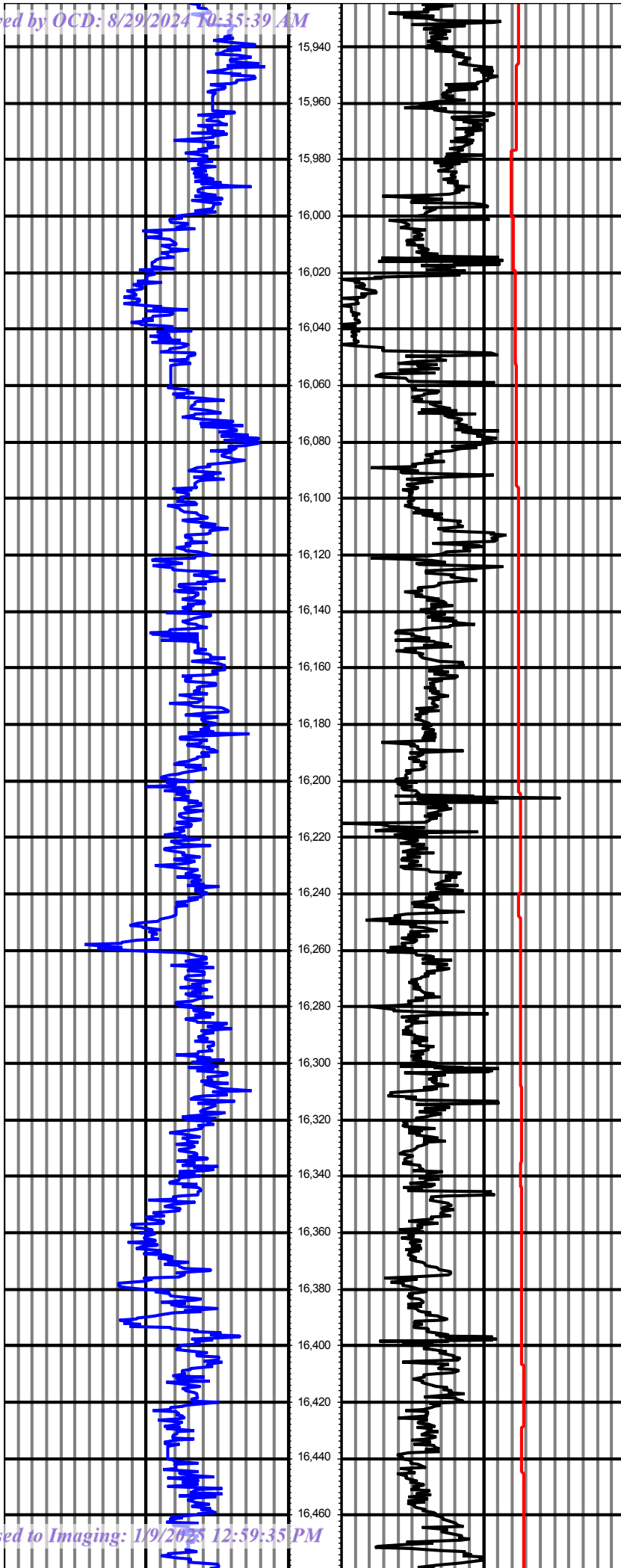
MD: 15462.00 INC: 89.36 AZ: 359.59 TVD: 11820.81 VS: 3592.01 DLS: 2.94

MD: 15558.00 INC: 91.21 AZ: 357.21 TVD: 11820.33 VS: 3687.99 DLS: 3.14

MD: 15654.00 INC: 88.22 AZ: 356.69 TVD: 11820.81 VS: 3783.88 DLS: 3.16

MD: 15750.00 INC: 89.76 AZ: 358.36 TVD: 11822.50 VS: 3879.81 DLS: 2.37

MD: 15846.00 INC: 88.88 AZ: 358.27 TVD: 11823.64 VS: 3975.78 DLS: 0.92



MD: 15941.00 INC: 87.65 AZ: 358.36 TVD: 11826.51 VS: 4070.72 DLS: 1.30

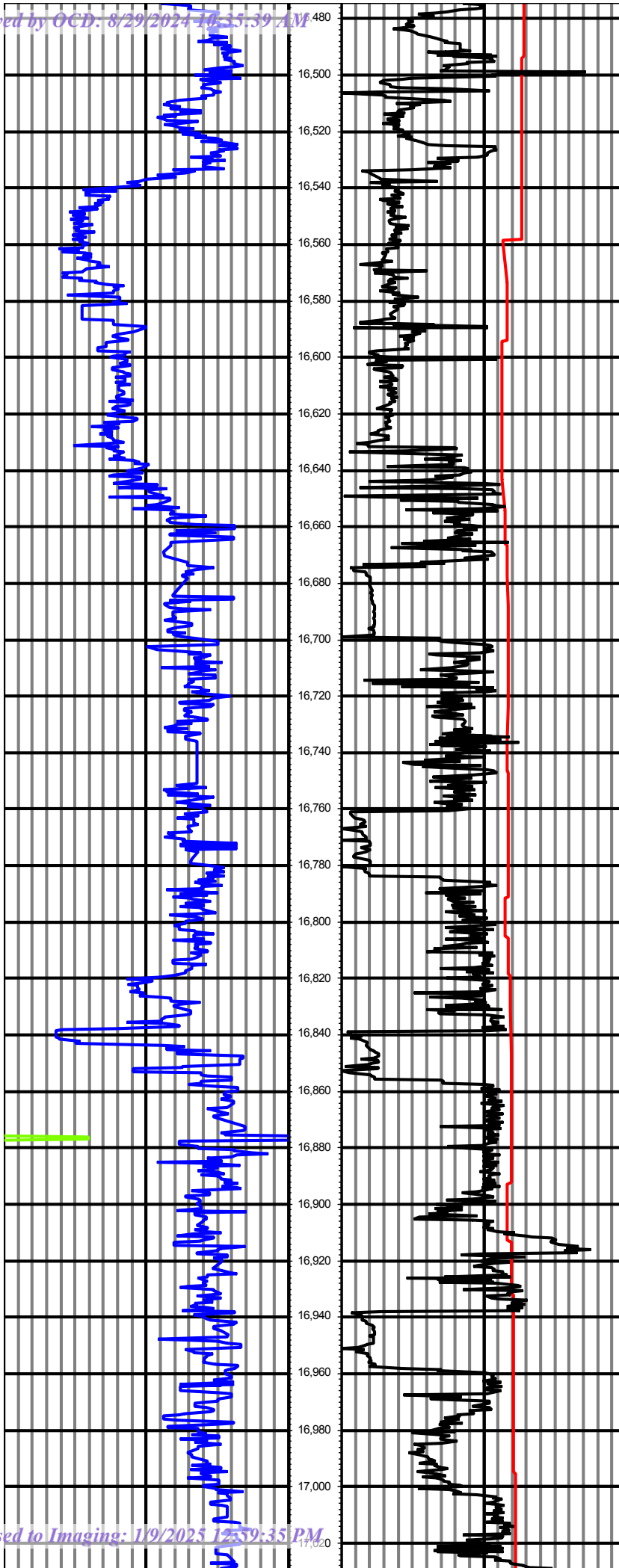
MD: 16037.00 INC: 92.09 AZ: 358.80 TVD: 11826.73 VS: 4166.68 DLS: 4.65

MD: 16132.00 INC: 91.82 AZ: 358.88 TVD: 11823.49 VS: 4261.62 DLS: 0.30

MD: 16227.00 INC: 90.46 AZ: 357.92 TVD: 11821.60 VS: 4356.58 DLS: 1.75

MD: 16323.00 INC: 90.86 AZ: 357.04 TVD: 11820.50 VS: 4452.52 DLS: 1.01

MD: 16418.00 INC: 91.69 AZ: 357.30 TVD: 11818.38 VS: 4547.42 DLS: 0.92



MD: 16514.00 INC: 91.82 AZ: 357.30 TVD: 11815.44 VS: 4643.31 DLS: 0.14

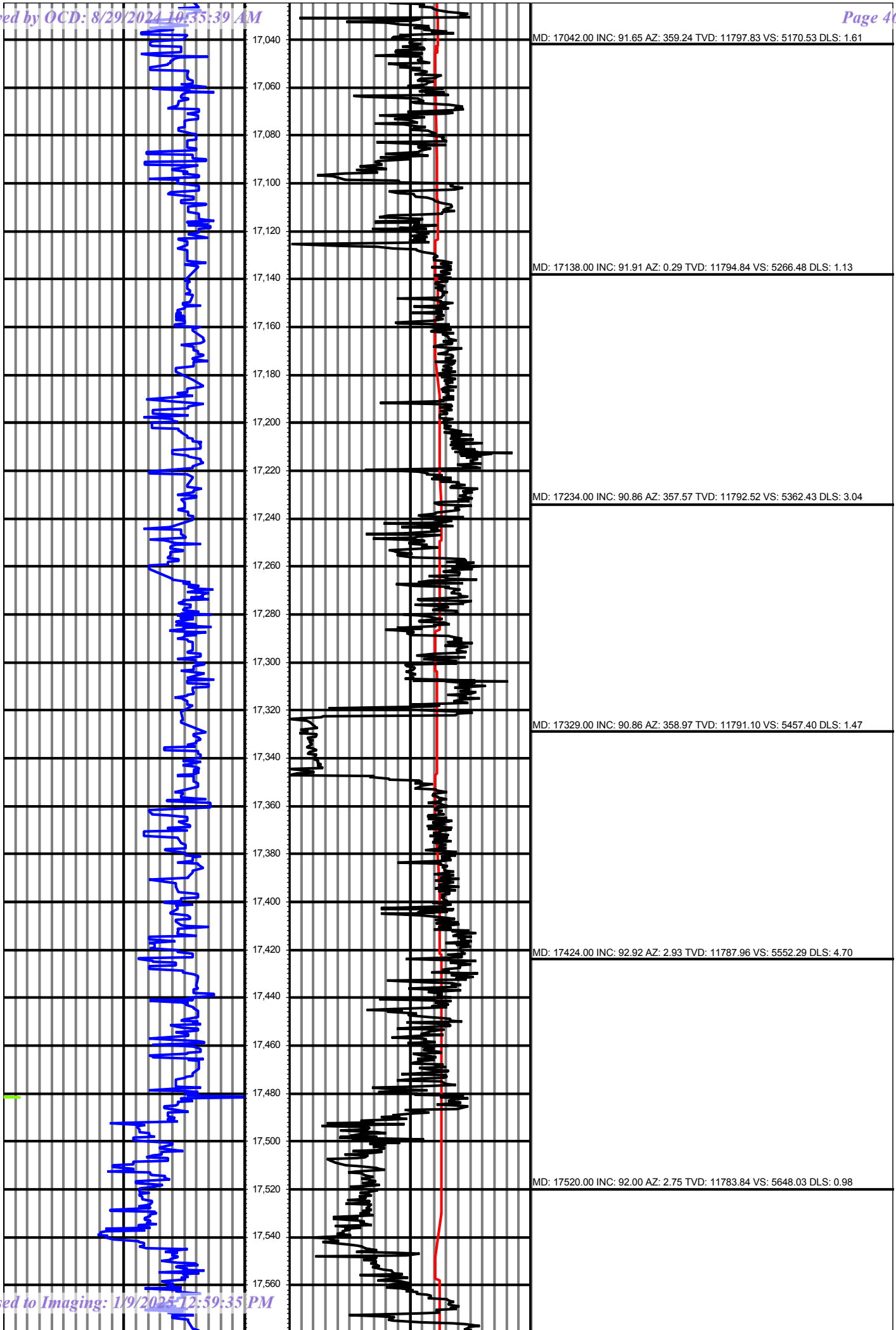
MD: 16565.00 INC: 90.68 AZ: 356.16 TVD: 11814.33 VS: 4694.24 DLS: 3.16

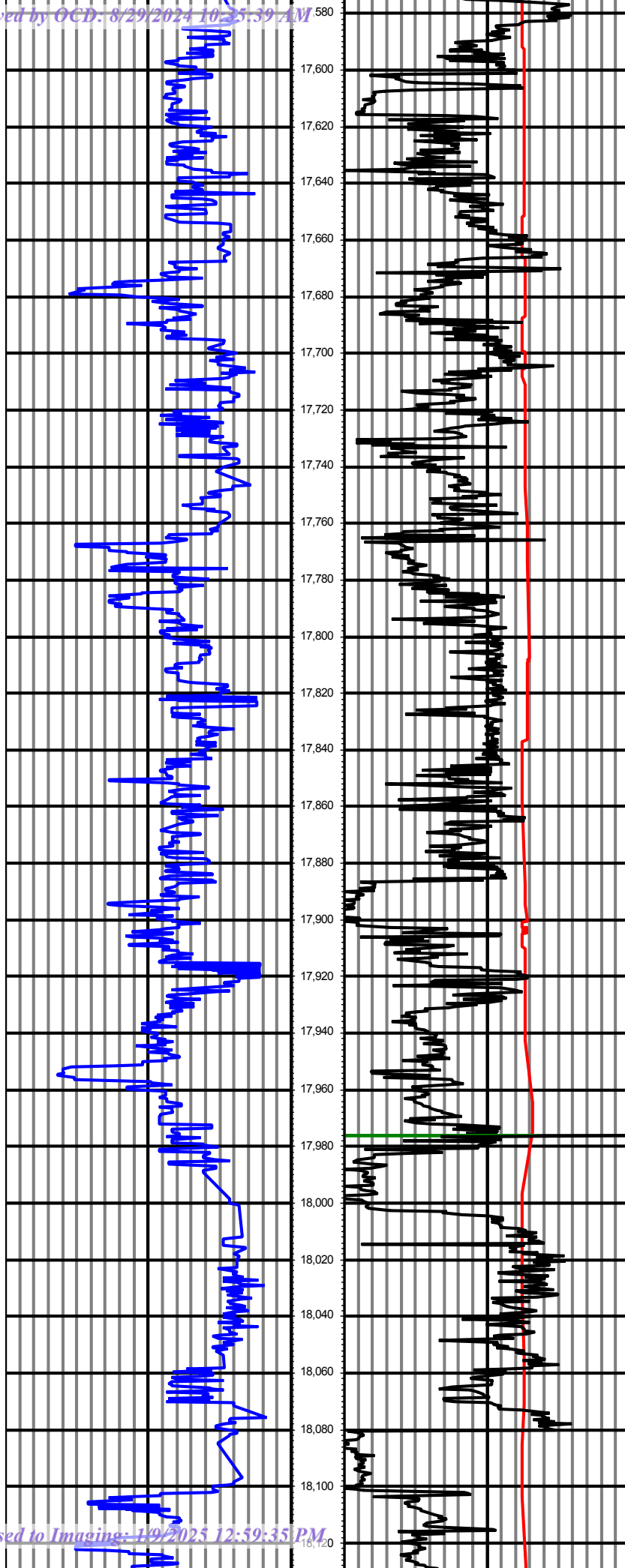
MD: 16660.00 INC: 90.33 AZ: 355.19 TVD: 11813.49 VS: 4789.03 DLS: 1.09

MD: 16756.00 INC: 92.09 AZ: 357.92 TVD: 11811.46 VS: 4884.87 DLS: 3.38

MD: 16852.00 INC: 93.32 AZ: 359.76 TVD: 11806.93 VS: 4980.75 DLS: 2.30

MD: 16947.00 INC: 93.01 AZ: 359.94 TVD: 11801.69 VS: 5075.61 DLS: 0.38





MD: 17615.00 INC: 92.44 AZ: 1.26 TVD: 11780.16 VS: 5742.86 DLS: 1.63

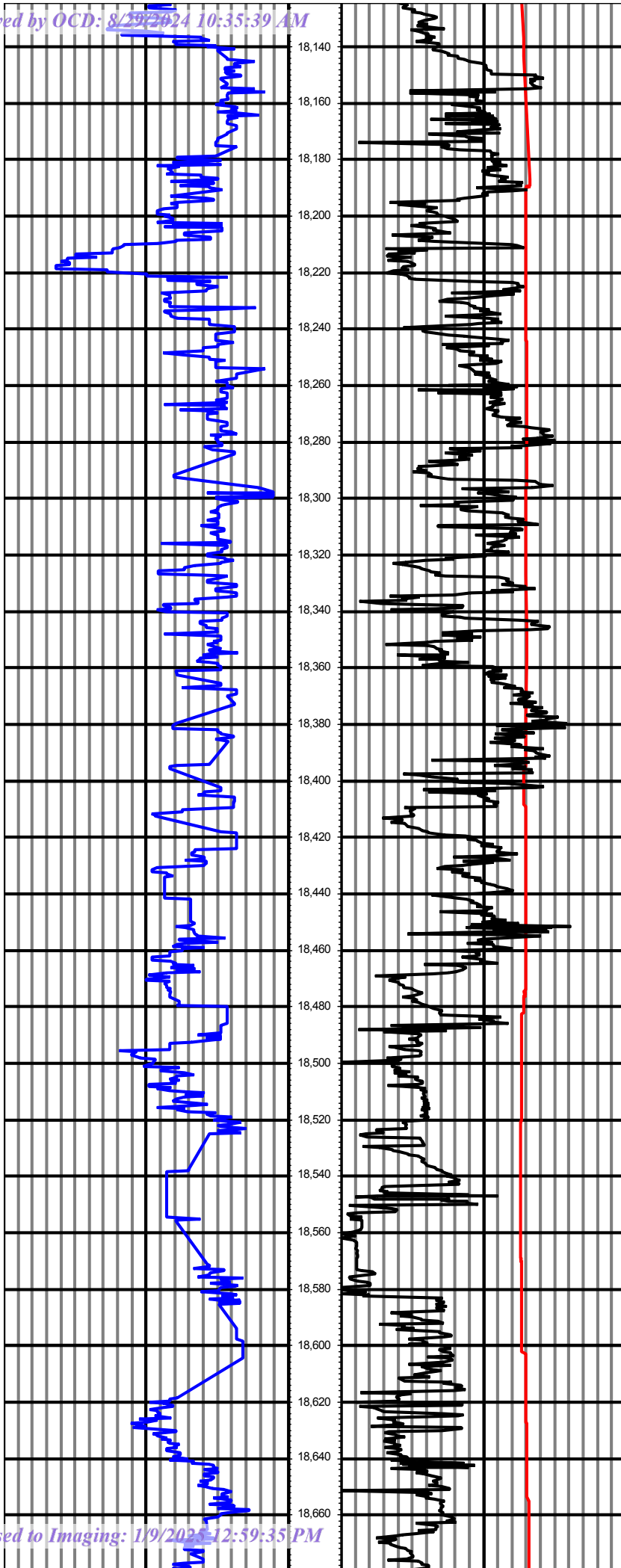
MD: 17710.00 INC: 90.20 AZ: 1.26 TVD: 11777.97 VS: 5837.79 DLS: 2.36

MD: 17806.00 INC: 89.67 AZ: 2.66 TVD: 11778.08 VS: 5933.69 DLS: 1.56

MD: 17900.00 INC: 89.71 AZ: 1.43 TVD: 11778.59 VS: 6027.59 DLS: 1.31

MD: 17996.00 INC: 89.49 AZ: 0.20 TVD: 11779.26 VS: 6123.56 DLS: 1.30

MD: 18091.00 INC: 93.45 AZ: 1.70 TVD: 11776.82 VS: 6218.47 DLS: 4.46



MD: 18186.00 INC: 92.09 AZ: 359.24 TVD: 11772.23 VS: 6313.34 DLS: 2.96

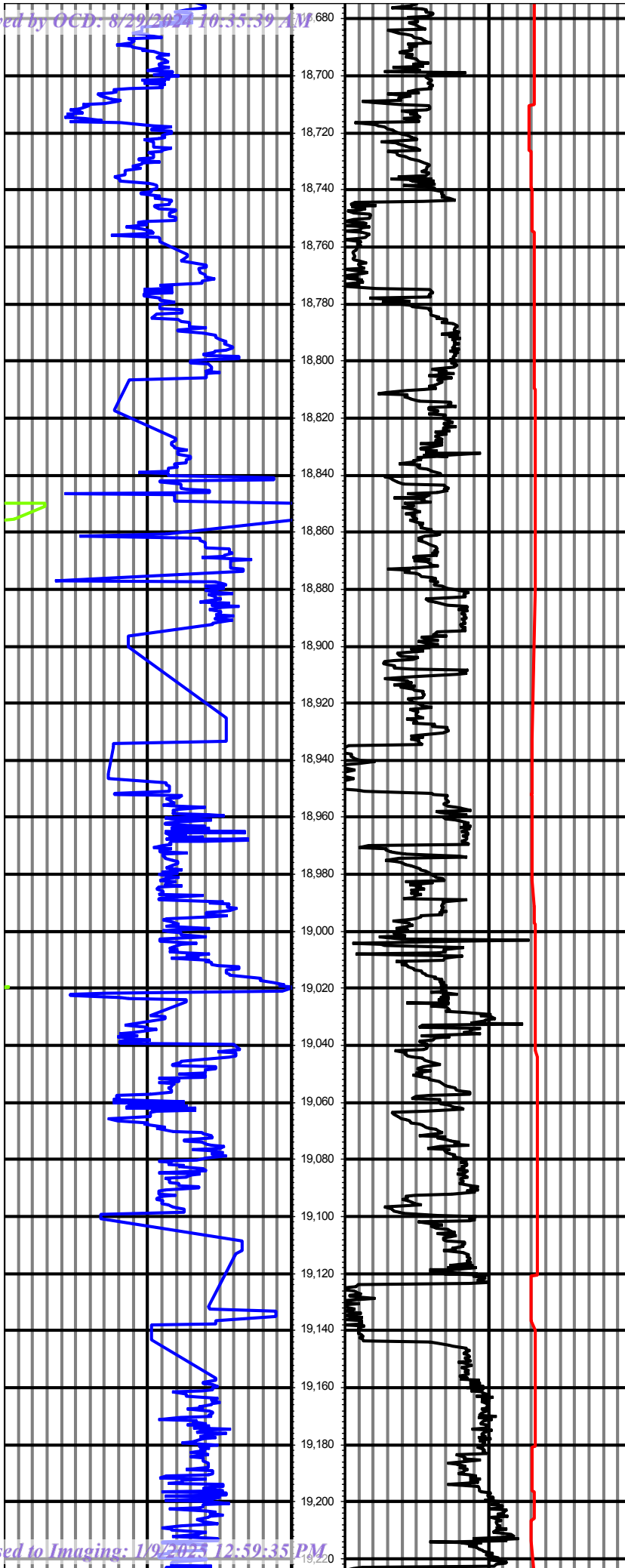
MD: 18282.00 INC: 91.60 AZ: 0.20 TVD: 11769.14 VS: 6409.28 DLS: 1.12

MD: 18377.00 INC: 91.60 AZ: 1.61 TVD: 11766.49 VS: 6504.21 DLS: 1.48

MD: 18472.00 INC: 92.75 AZ: 3.19 TVD: 11762.88 VS: 6599.01 DLS: 2.06

MD: 18567.00 INC: 89.58 AZ: 1.52 TVD: 11760.95 VS: 6693.86 DLS: 3.77

MD: 18662.00 INC: 89.19 AZ: 1.43 TVD: 11761.97 VS: 6788.79 DLS: 0.42



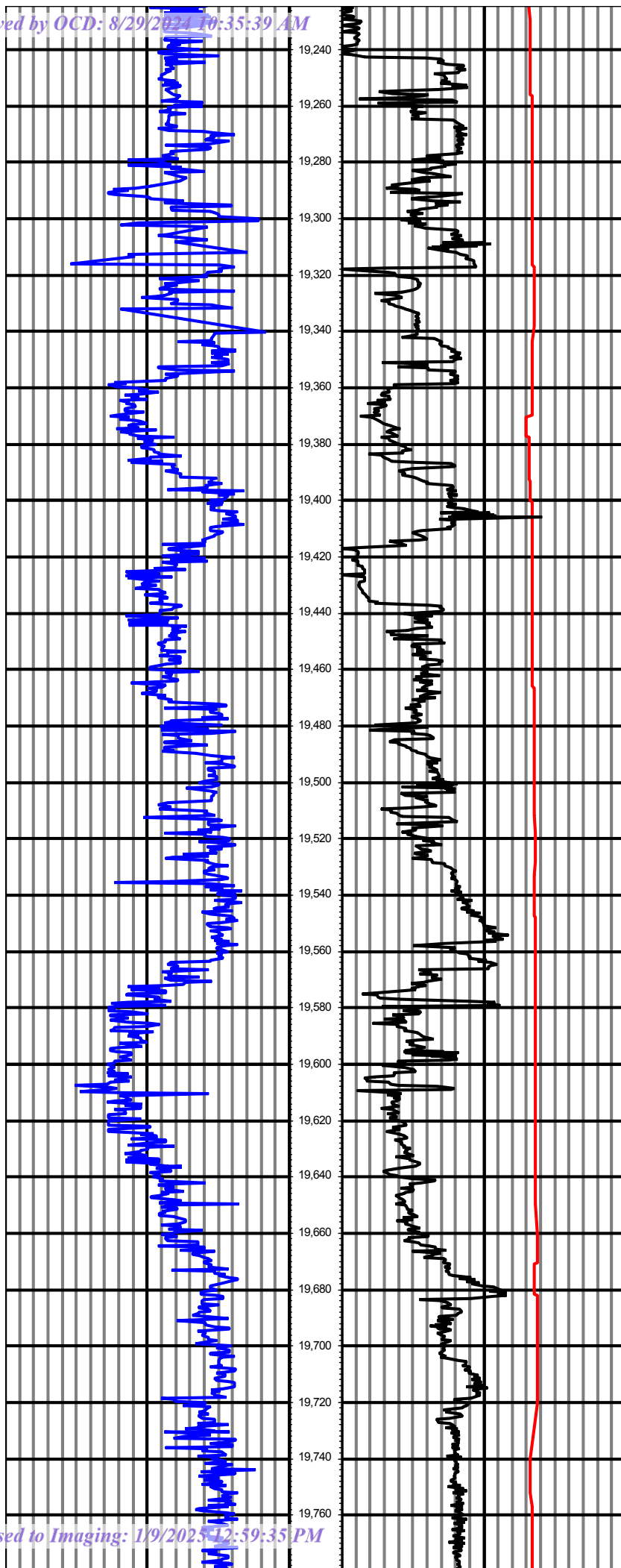
MD: 18757.00 INC: 89.58 AZ: 358.71 TVD: 11762.99 VS: 6883.77 DLS: 2.89

MD: 18853.00 INC: 89.01 AZ: 357.74 TVD: 11764.17 VS: 6979.74 DLS: 1.17

MD: 18948.00 INC: 90.15 AZ: 358.01 TVD: 11764.87 VS: 7074.70 DLS: 1.23

MD: 19044.00 INC: 89.41 AZ: 358.27 TVD: 11765.24 VS: 7170.67 DLS: 0.82

MD: 19140.00 INC: 90.59 AZ: 356.78 TVD: 11765.24 VS: 7266.62 DLS: 1.98



MD: 19235.00 INC: 94.15 AZ: 358.53 TVD: 11761.31 VS: 7361.47 DLS: 2.31

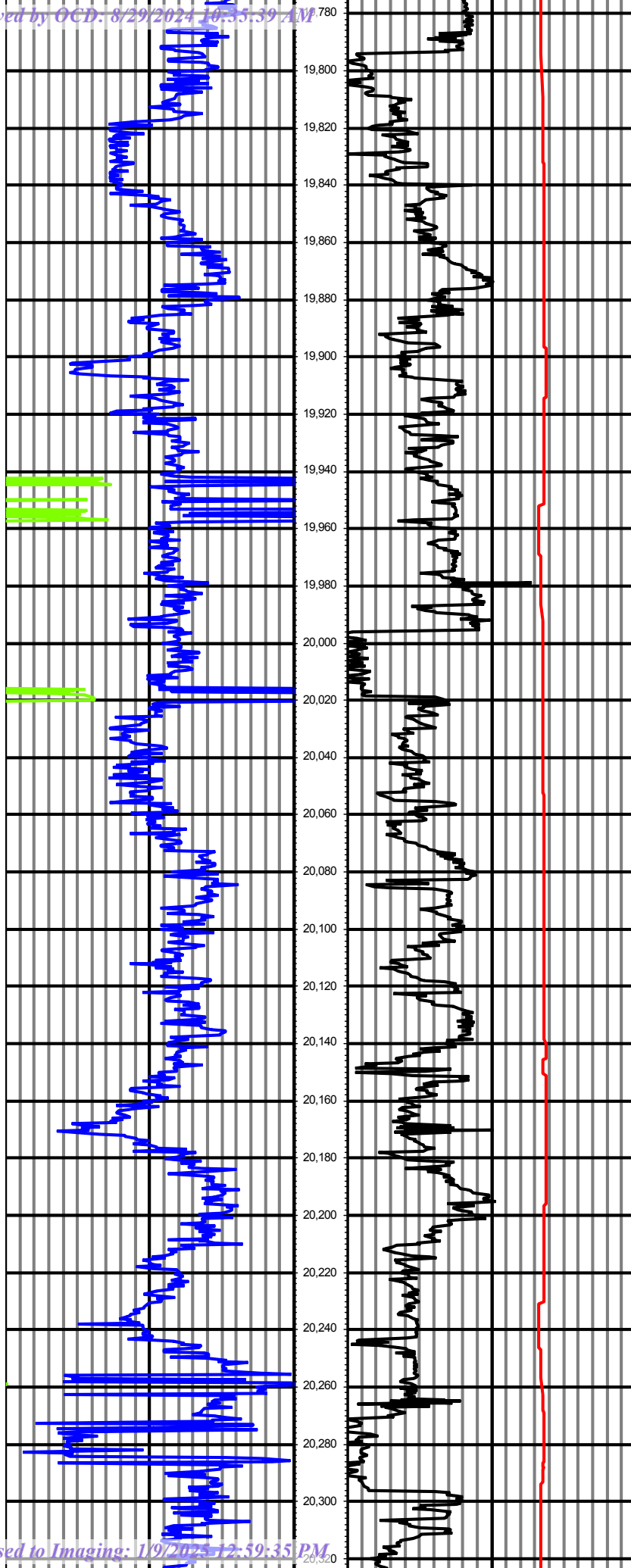
MD: 19331.00 INC: 96.26 AZ: 357.83 TVD: 11752.60 VS: 7457.04 DLS: 2.31

MD: 19426.00 INC: 93.49 AZ: 358.88 TVD: 11744.53 VS: 7551.67 DLS: 3.12

MD: 19522.00 INC: 90.15 AZ: 358.01 TVD: 11741.48 VS: 7647.60 DLS: 3.60

MD: 19618.00 INC: 91.30 AZ: 356.60 TVD: 11740.27 VS: 7743.52 DLS: 1.90

MD: 19714.00 INC: 91.56 AZ: 354.93 TVD: 11737.87 VS: 7839.29 DLS: 1.76



MD: 19809.00 INC: 91.08 AZ: 357.83 TVD: 11735.68 VS: 7934.12 DLS: 3.09

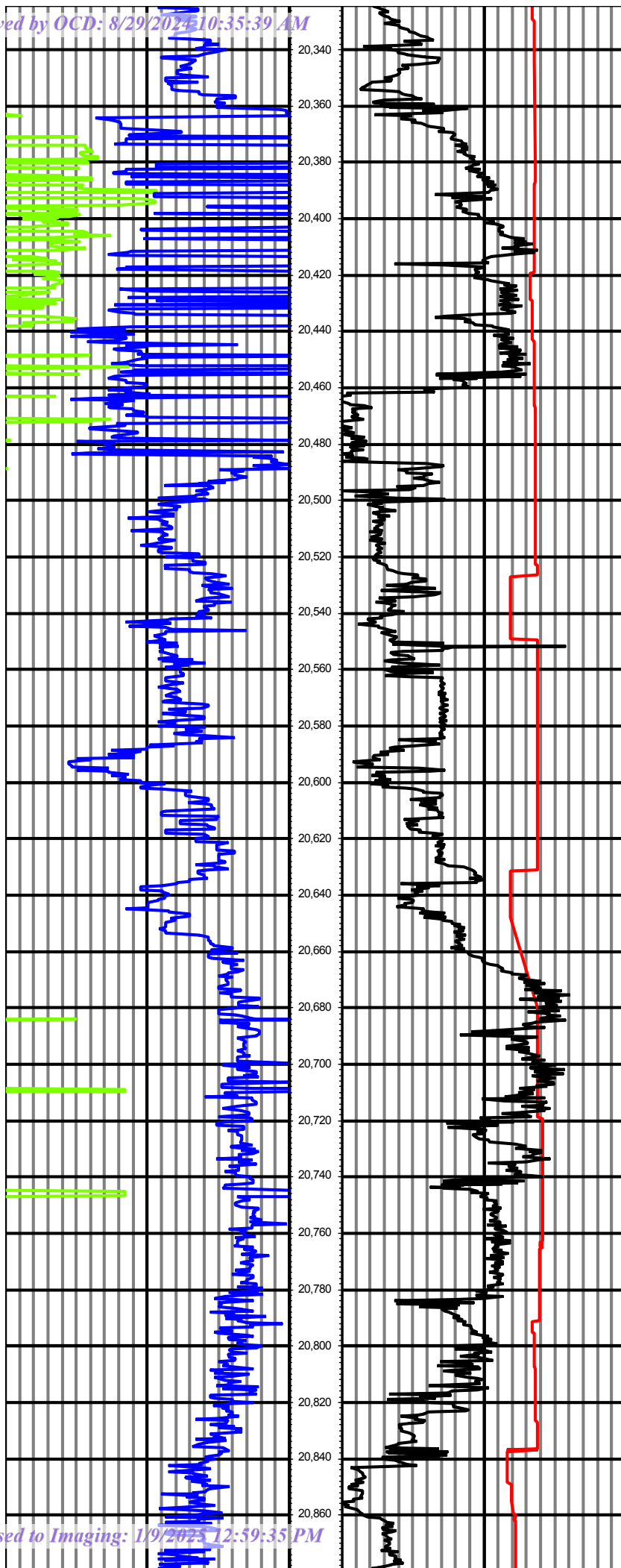
MD: 19904.00 INC: 92.88 AZ: 357.83 TVD: 11732.40 VS: 8029.02 DLS: 1.89

MD: 20000.00 INC: 90.86 AZ: 357.39 TVD: 11729.27 VS: 8124.91 DLS: 2.15

MD: 20095.00 INC: 90.51 AZ: 358.36 TVD: 11728.13 VS: 8219.87 DLS: 1.09

MD: 20191.00 INC: 88.97 AZ: 357.74 TVD: 11728.57 VS: 8315.84 DLS: 1.73

MD: 20286.00 INC: 91.30 AZ: 0.03 TVD: 11728.34 VS: 8410.82 DLS: 3.44



MD: 20381.00 INC: 87.25 AZ: 358.88 TVD: 11729.54 VS: 8505.79 DLS: 4.43

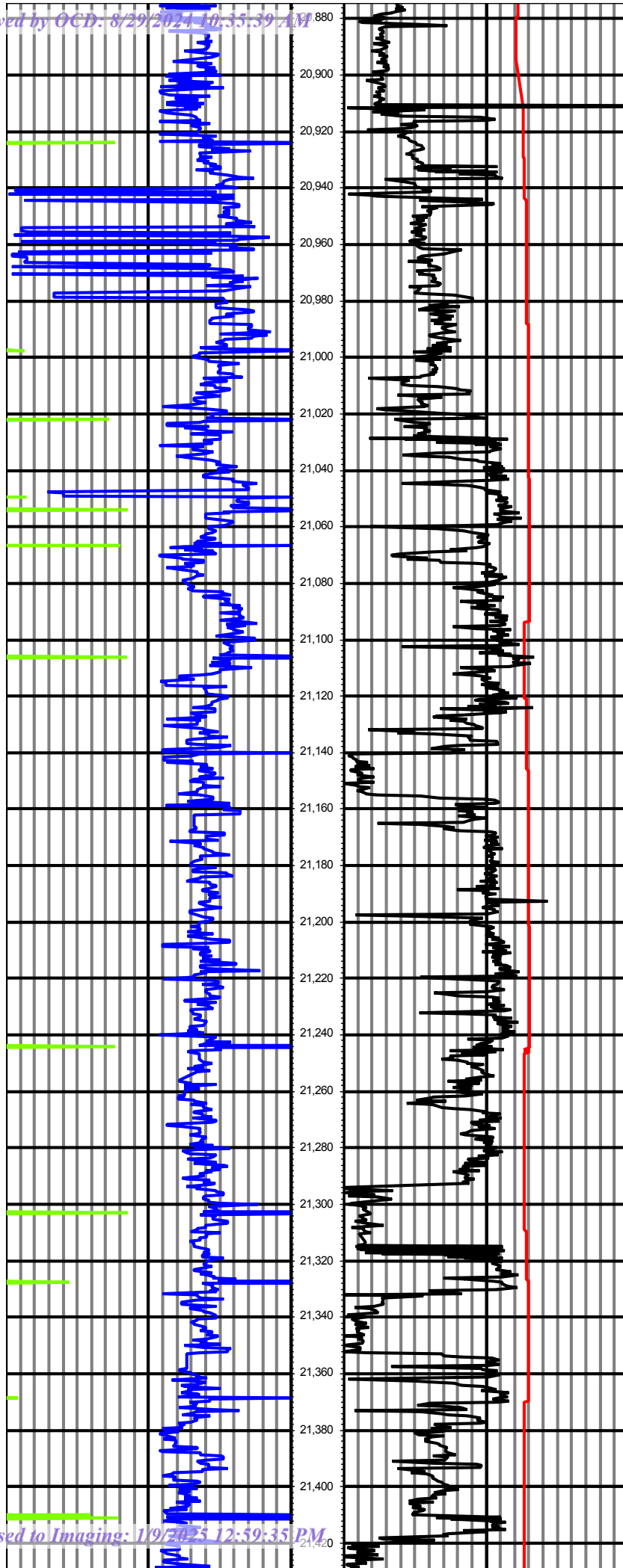
MD: 20477.00 INC: 89.54 AZ: 2.58 TVD: 11732.23 VS: 8601.70 DLS: 4.53

MD: 20573.00 INC: 90.29 AZ: 1.96 TVD: 11732.38 VS: 8697.59 DLS: 1.01

MD: 20668.00 INC: 90.07 AZ: 1.96 TVD: 11732.08 VS: 8792.49 DLS: 0.23

MD: 20763.00 INC: 90.64 AZ: 2.49 TVD: 11731.49 VS: 8887.38 DLS: 0.82

MD: 20856.00 INC: 91.25 AZ: 0.91 TVD: 11729.95 VS: 8980.29 DLS: 1.82



MD: 20952.00 INC: 89.49 AZ: 359.76 TVD: 11729.33 VS: 9076.27 DLS: 2.19

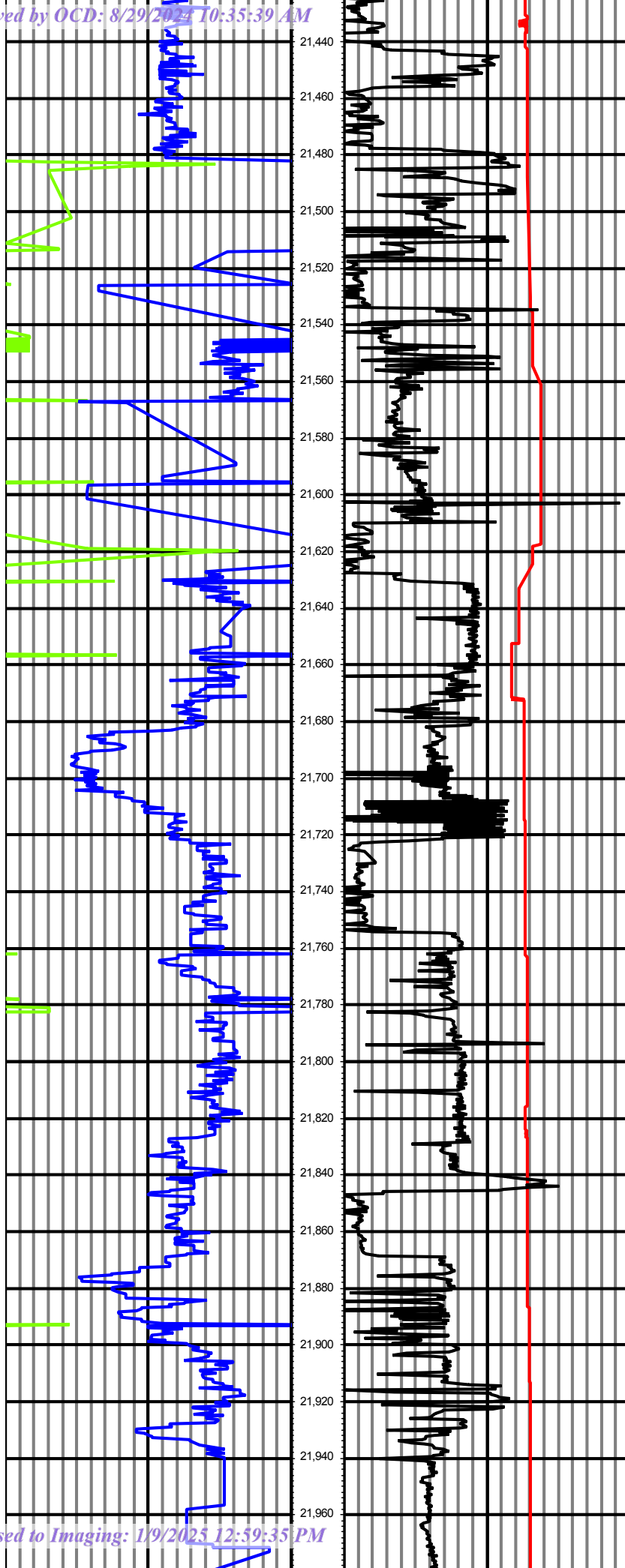
MD: 21047.00 INC: 89.41 AZ: 359.06 TVD: 11730.25 VS: 9171.27 DLS: 0.74

MD: 21143.00 INC: 89.85 AZ: 358.36 TVD: 11730.87 VS: 9267.26 DLS: 0.86

MD: 21239.00 INC: 88.48 AZ: 356.16 TVD: 11732.27 VS: 9363.17 DLS: 2.70

MD: 21334.00 INC: 89.45 AZ: 355.54 TVD: 11733.98 VS: 9457.96 DLS: 1.21

MD: 21430.00 INC: 91.21 AZ: 355.90 TVD: 11733.43 VS: 9553.76 DLS: 1.87



MD: 21430.00 INC: 91.21 AZ: 355.90 TVD: 11733.43 VS: 9553.76 DLS: 1.87

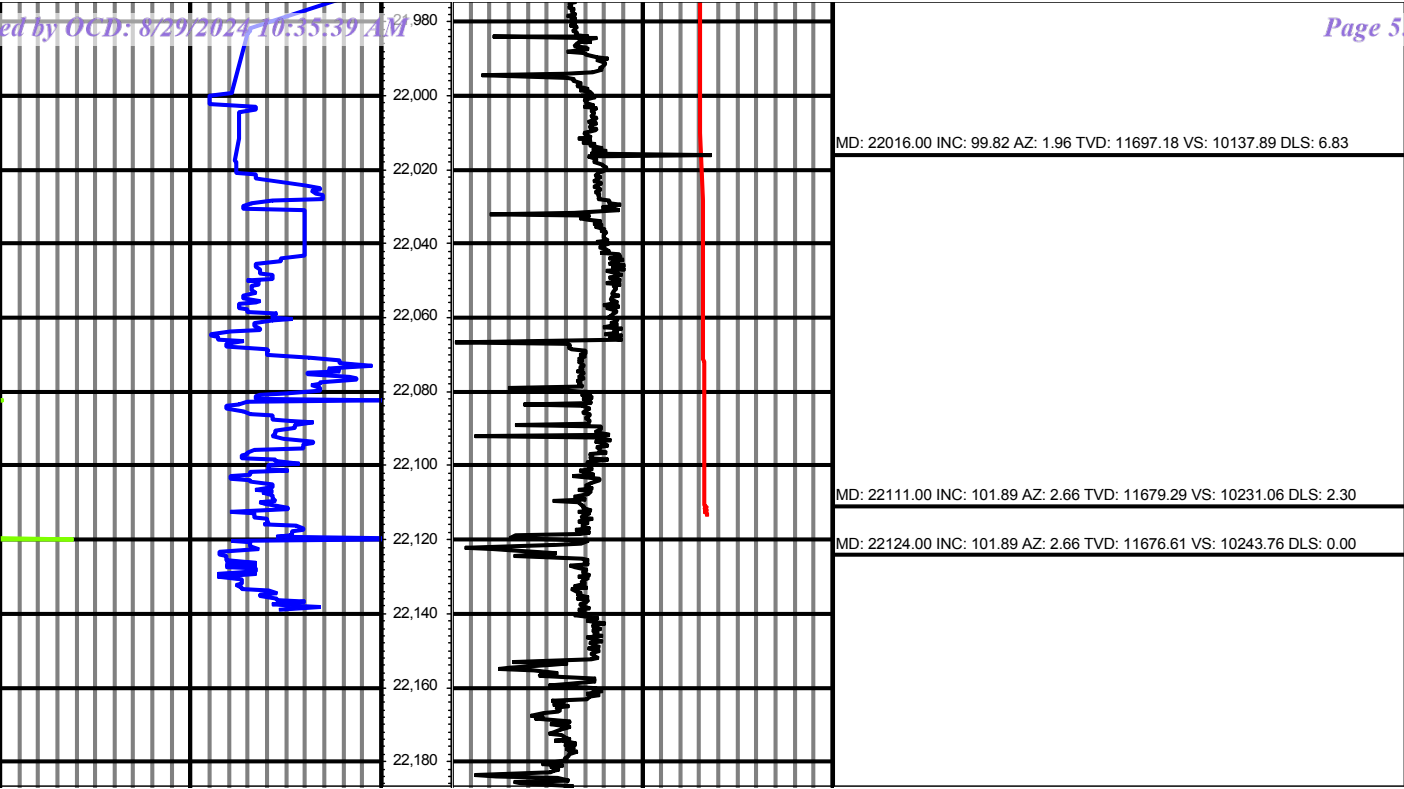
MD: 21525.00 INC: 91.87 AZ: 356.86 TVD: 11730.88 VS: 9648.59 DLS: 1.23

MD: 21633.00 INC: 92.00 AZ: 357.48 TVD: 11727.23 VS: 9756.44 DLS: 0.59

MD: 21729.00 INC: 93.23 AZ: 357.39 TVD: 11722.85 VS: 9852.28 DLS: 1.28

MD: 21824.00 INC: 95.60 AZ: 358.80 TVD: 11715.54 VS: 9946.96 DLS: 2.90

MD: 21920.00 INC: 93.27 AZ: 1.70 TVD: 11708.11 VS: 10042.65 DLS: 3.87



0.00 150.00 300.00 Gamma(RAI) MD 0.00 300.00 600.00 ROP(FT/HR) 0.00 300.00 TEMP(degF) Surveys (MD/INC/AZ/TVD/VS/DLS)



American Resource Development LLC.

Ameredev Operating

Lea County, NM (N83-NME)

Nandina_GoldenBell

Nandina 25 36 31 Fed Com 127H

N127H

Plan: AS-DRILLED FINAL

Survey Report - Geographic

08 November, 2022



American Resource Development LLC.

Survey Report - Geographic

Company:	Ameredev Operating	Local Co-ordinate Reference:	Well Nandina Fed Com 25-36-31 127H
Project:	Lea County, NM (N83-NME)	TVD Reference:	GL 3,010' + 27' KB @ 3037.0usft (Nabors)
Site:	Nandina_GoldenBell	MD Reference:	GL 3,010' + 27' KB @ 3037.0usft (Nabors)
Well:	Nandina Fed Com 25-36-31 127H	North Reference:	Grid
Wellbore:	N127H	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	AUS-COMPASS - EDM_15 - 32bit

Project	Lea County, NM (N83-NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Nandina_GoldenBell				
Site Position:		Northing:	394,432.00 usft	Latitude:	32.0802090
From:	Map	Easting:	859,493.00 usft	Longitude:	-103.3061147
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.55 °

Well	Nandina Fed Com 25-36-31 127H					
Well Position	+N/-S	0.0 usft	Northing:	394,424.21 usft	Latitude:	32.0801276
	+E/-W	0.0 usft	Easting:	861,776.89 usft	Longitude:	-103.2987420
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,010.0 usft

Wellbore	N127H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	9/30/2021	6.37	59.80	47,408.20032202

Design	FINAL				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	3.07	

Survey Tool Program	Date	11/8/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	22,187.0	FINAL (N127H)	MWD	OWSG MWD - Standard	

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	394,424.21	861,776.89	32.0801276	-103.2987420
7Deg(NAN-127H) (copy) - 25-36-30 (copy) (copy) (copy) (copy) (copy) - 25-36-31 (copy) (copy) (copy) (copy) - 5Deg(NAN-127H)									
73.0	0.10	97.00	73.0	0.0	0.1	394,424.21	861,776.96	32.0801276	-103.2987418
158.0	0.40	260.00	158.0	-0.1	-0.2	394,424.15	861,776.74	32.0801274	-103.2987425
254.0	0.70	253.00	254.0	-0.3	-1.0	394,423.92	861,775.85	32.0801268	-103.2987454
380.0	0.70	256.00	380.0	-0.7	-2.5	394,423.50	861,774.36	32.0801257	-103.2987502
475.0	0.70	256.00	475.0	-1.0	-3.7	394,423.22	861,773.24	32.0801250	-103.2987538
522.0	0.70	264.00	522.0	-1.1	-4.2	394,423.12	861,772.67	32.0801247	-103.2987556
570.0	1.30	265.00	570.0	-1.2	-5.1	394,423.05	861,771.84	32.0801245	-103.2987583
711.0	1.20	264.00	710.9	-1.5	-8.1	394,422.75	861,768.78	32.0801238	-103.2987682
806.0	1.30	249.00	805.9	-2.0	-10.1	394,422.26	861,766.78	32.0801225	-103.2987747
869.0	1.30	262.00	868.9	-2.3	-11.5	394,421.91	861,765.41	32.0801216	-103.2987791



American Resource Development LLC.

Survey Report - Geographic

Company:	Ameredev Operating	Local Co-ordinate Reference:	Well Nandina Fed Com 25-36-31 127H
Project:	Lea County, NM (N83-NME)	TVD Reference:	GL 3,010' + 27' KB @ 3037.0usft (Nabors)
Site:	Nandina_GoldenBell	MD Reference:	GL 3,010' + 27' KB @ 3037.0usft (Nabors)
Well:	Nandina Fed Com 25-36-31 127H	North Reference:	Grid
Wellbore:	N127H	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	AUS-COMPASS - EDM_15 - 32bit

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
948.0	1.20	244.00	947.9	-2.8	-13.1	394,421.42	861,763.78	32.0801203	-103.2987844
1,042.0	1.10	253.00	1,041.9	-3.5	-14.9	394,420.72	861,762.03	32.0801184	-103.2987901
1,152.0	1.10	253.00	1,151.8	-4.1	-16.9	394,420.11	861,760.01	32.0801168	-103.2987966
1,178.0	1.10	257.00	1,177.8	-4.2	-17.4	394,419.98	861,759.53	32.0801164	-103.2987982
1,394.0	0.97	98.31	1,393.8	-5.0	-17.6	394,419.25	861,759.32	32.0801144	-103.2987989
1,488.0	1.23	96.81	1,487.8	-5.2	-15.8	394,419.01	861,761.11	32.0801137	-103.2987931
1,582.0	1.14	99.63	1,581.8	-5.5	-13.9	394,418.74	861,763.03	32.0801129	-103.2987869
1,676.0	0.79	90.49	1,675.8	-5.6	-12.3	394,418.57	861,764.60	32.0801124	-103.2987819
1,770.0	0.48	90.75	1,769.8	-5.7	-11.3	394,418.56	861,765.64	32.0801124	-103.2987785
1,864.0	0.35	69.66	1,863.8	-5.6	-10.6	394,418.66	861,766.30	32.0801126	-103.2987763
1,958.0	0.40	61.39	1,957.8	-5.3	-10.0	394,418.92	861,766.86	32.0801133	-103.2987745
2,052.0	1.10	72.12	2,051.8	-4.9	-8.9	394,419.35	861,768.01	32.0801145	-103.2987708
2,147.0	1.80	75.28	2,146.7	-4.2	-6.6	394,420.01	861,770.32	32.0801162	-103.2987633
2,241.0	2.81	80.55	2,240.6	-3.5	-2.9	394,420.76	861,774.02	32.0801182	-103.2987514
2,334.0	3.16	81.52	2,333.5	-2.7	1.9	394,421.51	861,778.80	32.0801202	-103.2987359
2,428.0	3.65	80.64	2,427.3	-1.8	7.4	394,422.38	861,784.32	32.0801224	-103.2987181
2,523.0	5.32	81.70	2,522.1	-0.7	14.8	394,423.51	861,791.66	32.0801253	-103.2986943
2,617.0	6.73	84.60	2,615.5	0.4	24.6	394,424.66	861,801.46	32.0801282	-103.2986627
2,710.0	7.38	85.92	2,707.8	1.4	35.9	394,425.60	861,812.84	32.0801305	-103.2986259
2,804.0	8.62	85.39	2,800.9	2.4	49.0	394,426.59	861,825.88	32.0801329	-103.2985838
2,898.0	8.92	93.12	2,893.8	2.5	63.3	394,426.76	861,840.18	32.0801330	-103.2985376
2,992.0	9.05	100.77	2,986.7	0.8	77.8	394,424.98	861,854.72	32.0801277	-103.2984907
3,086.0	8.66	111.14	3,079.6	-3.2	91.7	394,421.05	861,868.59	32.0801165	-103.2984461
3,180.0	8.97	111.67	3,172.4	-8.4	105.1	394,415.79	861,882.00	32.0801017	-103.2984030
3,274.0	9.76	119.75	3,265.2	-15.1	118.8	394,409.13	861,895.73	32.0800830	-103.2983588
3,367.0	9.93	127.58	3,356.8	-23.9	132.0	394,400.33	861,908.93	32.0800585	-103.2983165
3,461.0	8.79	139.79	3,449.6	-34.3	143.1	394,389.90	861,919.99	32.0800295	-103.2982811
3,554.0	6.95	153.42	3,541.7	-44.8	150.2	394,379.44	861,927.09	32.0800006	-103.2982585
3,648.0	6.46	160.36	3,635.1	-54.8	154.5	394,369.37	861,931.42	32.0799728	-103.2982449
3,742.0	6.02	165.46	3,728.5	-64.6	157.5	394,359.62	861,934.43	32.0799459	-103.2982354
3,837.0	4.97	159.92	3,823.1	-73.3	160.2	394,350.93	861,937.09	32.0799220	-103.2982271
3,930.0	3.21	168.09	3,915.8	-79.6	162.1	394,344.60	861,939.01	32.0799045	-103.2982211
4,024.0	3.91	155.61	4,009.7	-85.1	164.0	394,339.11	861,940.88	32.0798894	-103.2982152
4,118.0	4.18	137.51	4,103.4	-90.6	167.6	394,333.66	861,944.52	32.0798743	-103.2982037
4,211.0	3.91	115.89	4,196.2	-94.4	172.8	394,329.78	861,949.66	32.0798635	-103.2981872
4,305.0	4.31	105.87	4,290.0	-96.8	179.0	394,327.41	861,955.94	32.0798568	-103.2981670
4,398.0	4.92	96.55	4,382.7	-98.2	186.4	394,326.00	861,963.27	32.0798528	-103.2981434
4,492.0	5.89	91.10	4,476.2	-98.8	195.2	394,325.45	861,972.09	32.0798510	-103.2981149
4,585.0	6.46	91.98	4,568.7	-99.0	205.2	394,325.18	861,982.09	32.0798500	-103.2980826
4,679.0	6.51	94.18	4,662.1	-99.6	215.8	394,324.61	861,992.69	32.0798482	-103.2980484
4,773.0	6.68	93.91	4,755.5	-100.4	226.6	394,323.84	862,003.46	32.0798458	-103.2980137
4,867.0	7.12	93.83	4,848.8	-101.1	237.8	394,323.08	862,014.73	32.0798434	-103.2979773
4,960.0	7.69	93.21	4,941.0	-101.9	249.8	394,322.35	862,026.69	32.0798411	-103.2979387
5,029.0	8.26	92.42	5,009.4	-102.3	259.4	394,321.88	862,036.25	32.0798395	-103.2979079
5,148.0	7.47	99.98	5,127.2	-104.0	275.5	394,320.18	862,052.41	32.0798344	-103.2978558
5,242.0	7.03	104.37	5,220.5	-106.5	287.1	394,317.69	862,064.00	32.0798273	-103.2978184
5,336.0	5.49	128.10	5,313.9	-110.7	296.2	394,313.49	862,073.12	32.0798155	-103.2977892
5,430.0	4.70	138.74	5,407.6	-116.4	302.3	394,307.82	862,079.19	32.0797997	-103.2977697
5,524.0	4.66	135.40	5,501.3	-122.0	307.5	394,302.21	862,084.41	32.0797842	-103.2977530
5,617.0	4.44	139.27	5,594.0	-127.4	312.5	394,296.79	862,089.42	32.0797692	-103.2977371
5,711.0	4.13	136.10	5,687.7	-132.6	317.2	394,291.59	862,094.14	32.0797547	-103.2977220
5,805.0	4.04	121.51	5,781.5	-136.8	322.4	394,287.42	862,099.31	32.0797431	-103.2977054
5,899.0	4.31	115.62	5,875.2	-140.0	328.4	394,284.16	862,105.32	32.0797340	-103.2976861
5,993.0	4.79	101.56	5,968.9	-142.4	335.5	394,281.85	862,112.35	32.0797275	-103.2976635
6,086.0	4.62	99.89	6,061.6	-143.8	342.9	394,280.43	862,119.84	32.0797234	-103.2976393



American Resource Development LLC.

Survey Report - Geographic

Company:	Ameredev Operating	Local Co-ordinate Reference:	Well Nandina Fed Com 25-36-31 127H
Project:	Lea County, NM (N83-NME)	TVD Reference:	GL 3,010' + 27' KB @ 3037.0usft (Nabors)
Site:	Nandina_GoldenBell	MD Reference:	GL 3,010' + 27' KB @ 3037.0usft (Nabors)
Well:	Nandina Fed Com 25-36-31 127H	North Reference:	Grid
Wellbore:	N127H	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	AUS-COMPASS - EDM_15 - 32bit

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,180.0	4.66	98.31	6,155.3	-145.0	350.5	394,279.23	862,127.35	32.0797199	-103.2976151
6,274.0	5.49	94.71	6,248.9	-145.9	358.7	394,278.31	862,135.61	32.0797171	-103.2975885
6,368.0	5.36	95.14	6,342.5	-146.7	367.6	394,277.54	862,144.46	32.0797148	-103.2975599
6,462.0	5.36	95.32	6,436.1	-147.5	376.3	394,276.74	862,153.21	32.0797124	-103.2975317
6,556.0	5.19	91.37	6,529.7	-148.0	384.9	394,276.23	862,161.83	32.0797107	-103.2975039
6,649.0	5.14	91.72	6,622.3	-148.2	393.3	394,276.01	862,170.20	32.0797099	-103.2974769
6,743.0	5.63	100.86	6,715.9	-149.2	402.0	394,275.01	862,178.93	32.0797069	-103.2974487
6,836.0	5.85	104.90	6,808.4	-151.3	411.1	394,272.94	862,187.99	32.0797010	-103.2974196
6,930.0	5.58	103.41	6,902.0	-153.6	420.2	394,270.64	862,197.07	32.0796945	-103.2973903
7,024.0	5.19	102.70	6,995.6	-155.6	428.8	394,268.65	862,205.66	32.0796887	-103.2973627
7,117.0	5.14	108.77	7,088.2	-157.8	436.8	394,266.38	862,213.71	32.0796823	-103.2973367
7,211.0	4.75	115.18	7,181.8	-160.8	444.3	394,263.37	862,221.22	32.0796738	-103.2973126
7,305.0	4.53	114.83	7,275.5	-164.1	451.2	394,260.16	862,228.11	32.0796648	-103.2972905
7,399.0	4.18	114.39	7,369.3	-167.0	457.7	394,257.19	862,234.60	32.0796565	-103.2972696
7,493.0	3.87	115.71	7,463.0	-169.8	463.7	394,254.39	862,240.58	32.0796486	-103.2972504
7,587.0	3.56	118.17	7,556.8	-172.6	469.1	394,251.64	862,246.01	32.0796409	-103.2972329
7,681.0	3.30	118.61	7,650.7	-175.2	474.1	394,248.97	862,250.96	32.0796334	-103.2972170
7,775.0	2.95	117.64	7,744.5	-177.7	478.6	394,246.55	862,255.47	32.0796267	-103.2972025
7,869.0	2.95	120.63	7,838.4	-180.0	482.8	394,244.19	862,259.70	32.0796201	-103.2971890
7,963.0	2.90	121.95	7,932.3	-182.5	486.9	394,241.70	862,263.80	32.0796131	-103.2971758
8,057.0	3.08	122.92	8,026.1	-185.1	491.0	394,239.07	862,267.94	32.0796058	-103.2971625
8,151.0	3.08	122.39	8,120.0	-187.9	495.3	394,236.35	862,272.19	32.0795982	-103.2971489
8,245.0	2.95	124.24	8,213.9	-190.6	499.4	394,233.63	862,276.32	32.0795906	-103.2971356
8,251.0	2.92	124.32	8,219.8	-190.8	499.7	394,233.46	862,276.57	32.0795902	-103.2971348
NMNMA119762 Exit at 8251.0 MD									
8,339.0	2.55	125.73	8,307.8	-193.2	503.1	394,231.05	862,280.02	32.0795834	-103.2971238
8,433.0	2.15	129.07	8,401.7	-195.5	506.2	394,228.72	862,283.08	32.0795770	-103.2971140
8,527.0	2.24	136.89	8,495.6	-197.9	508.8	394,226.27	862,285.71	32.0795701	-103.2971056
8,620.0	2.11	138.30	8,588.5	-200.6	511.2	394,223.66	862,288.09	32.0795629	-103.2970980
8,715.0	1.67	134.34	8,683.5	-202.8	513.3	394,221.39	862,290.24	32.0795566	-103.2970911
8,808.0	1.63	132.41	8,776.5	-204.7	515.3	394,219.55	862,292.19	32.0795515	-103.2970849
8,902.0	1.71	133.29	8,870.4	-206.5	517.3	394,217.69	862,294.20	32.0795463	-103.2970784
8,996.0	1.67	135.22	8,964.4	-208.5	519.3	394,215.75	862,296.18	32.0795410	-103.2970721
9,090.0	2.11	138.91	9,058.3	-210.7	521.4	394,213.48	862,298.28	32.0795347	-103.2970654
9,184.0	2.37	136.80	9,152.3	-213.5	523.9	394,210.76	862,300.75	32.0795271	-103.2970575
9,278.0	2.20	128.46	9,246.2	-216.0	526.6	394,208.22	862,303.49	32.0795201	-103.2970487
9,371.0	1.93	109.56	9,339.1	-217.6	529.5	394,206.58	862,306.37	32.0795155	-103.2970395
9,465.0	1.89	94.62	9,433.1	-218.3	532.5	394,205.93	862,309.40	32.0795136	-103.2970297
9,559.0	1.80	77.22	9,527.0	-218.1	535.5	394,206.13	862,312.39	32.0795141	-103.2970201
9,653.0	1.89	75.11	9,621.0	-217.4	538.4	394,206.85	862,315.33	32.0795160	-103.2970106
9,746.0	1.58	68.51	9,713.9	-216.5	541.1	394,207.72	862,318.00	32.0795183	-103.2970019
9,839.0	1.98	41.62	9,806.9	-214.8	543.4	394,209.39	862,320.26	32.0795228	-103.2969945
9,933.0	2.55	38.98	9,900.8	-212.0	545.8	394,212.23	862,322.66	32.0795306	-103.2969867
10,026.0	2.73	61.31	9,993.7	-209.3	549.0	394,214.90	862,325.90	32.0795378	-103.2969762
10,120.0	3.34	80.64	10,087.6	-207.8	553.7	394,216.42	862,330.57	32.0795419	-103.2969611
10,214.0	3.74	96.02	10,181.4	-207.7	559.4	394,216.54	862,336.32	32.0795421	-103.2969425
10,307.0	2.55	95.76	10,274.3	-208.2	564.5	394,216.02	862,341.39	32.0795405	-103.2969261
10,401.0	1.76	116.94	10,368.2	-209.1	567.9	394,215.15	862,344.76	32.0795380	-103.2969153
10,495.0	2.02	135.31	10,462.2	-210.9	570.3	394,213.32	862,347.21	32.0795329	-103.2969074
10,589.0	1.71	184.35	10,556.1	-213.5	571.4	394,210.75	862,348.27	32.0795258	-103.2969041
10,683.0	3.08	229.71	10,650.0	-216.5	569.3	394,207.71	862,346.24	32.0795175	-103.2969107
10,775.0	1.05	215.73	10,742.0	-218.8	567.0	394,205.43	862,343.86	32.0795113	-103.2969185
10,868.0	1.19	130.92	10,835.0	-220.1	567.2	394,204.11	862,344.09	32.0795077	-103.2969178
10,961.0	1.36	152.80	10,927.9	-221.7	568.4	394,202.49	862,345.33	32.0795032	-103.2969138
11,056.0	0.97	138.91	11,022.9	-223.3	569.5	394,200.88	862,346.37	32.0794988	-103.2969105



American Resource Development LLC.

Survey Report - Geographic

Company:	Ameredev Operating	Local Co-ordinate Reference:	Well Nandina Fed Com 25-36-31 127H
Project:	Lea County, NM (N83-NME)	TVD Reference:	GL 3,010' + 27' KB @ 3037.0usft (Nabors)
Site:	Nandina_GoldenBell	MD Reference:	GL 3,010' + 27' KB @ 3037.0usft (Nabors)
Well:	Nandina Fed Com 25-36-31 127H	North Reference:	Grid
Wellbore:	N127H	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	AUS-COMPASS - EDM_15 - 32bit

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,120.0	1.14	136.80	11,086.9	-224.2	570.3	394,200.01	862,347.16	32.0794964	-103.2969080
11,222.0	1.10	174.05	11,188.9	-225.9	571.1	394,198.30	862,347.96	32.0794916	-103.2969055
11,272.0	1.05	171.94	11,238.9	-226.8	571.2	394,197.37	862,348.07	32.0794891	-103.2969051
11,312.7	2.61	43.80	11,279.6	-226.5	571.9	394,197.67	862,348.76	32.0794899	-103.2969029
00-Original KOP(NAN-127H)									
11,366.0	6.95	34.83	11,332.7	-223.0	574.6	394,201.19	862,351.45	32.0794995	-103.2968941
KOP @ 11366									
11,413.0	12.26	14.44	11,379.0	-215.9	577.4	394,208.36	862,354.32	32.0795191	-103.2968846
11,461.0	18.24	17.87	11,425.3	-203.8	581.0	394,220.46	862,357.90	32.0795523	-103.2968727
11,505.0	20.87	19.29	11,466.7	-189.8	585.7	394,234.41	862,362.60	32.0795905	-103.2968571
NMNMA119762 Entry at 11505.0 MD									
11,557.0	24.00	20.59	11,514.8	-171.2	592.5	394,253.06	862,369.38	32.0796416	-103.2968346
11,589.0	26.95	22.88	11,543.7	-158.4	597.6	394,265.84	862,374.49	32.0796766	-103.2968177
11,620.0	31.38	24.28	11,570.8	-144.5	603.7	394,279.67	862,380.54	32.0797144	-103.2967978
11,652.0	34.86	23.67	11,597.6	-128.6	610.8	394,295.65	862,387.64	32.0797581	-103.2967743
11,713.0	42.01	18.27	11,645.3	-93.2	624.2	394,331.06	862,401.06	32.0798551	-103.2967299
Nandina 127H Unit Hardlines Entry at 11713.0 MD									
11,716.0	42.37	18.04	11,647.5	-91.2	624.8	394,332.97	862,401.69	32.0798604	-103.2967278
11,748.0	45.49	15.58	11,670.6	-70.0	631.2	394,354.22	862,408.10	32.0799186	-103.2967065
11,834.1	56.09	13.57	11,724.9	-5.5	647.9	394,418.72	862,424.77	32.0800954	-103.2966507
01-FTP-280FEL(NAN127H) - 01-Nandina-127H-FTP (copy) - 01-FTP(NAN-127H) (copy)									
11,843.0	57.19	13.39	11,729.8	1.7	649.6	394,425.94	862,426.50	32.0801152	-103.2966449
11,894.4	64.73	13.44	11,754.8	45.4	660.0	394,469.66	862,436.93	32.0802351	-103.2966098
NAN 127 Target 00 (copy) - 02-T02-0VS(NAN127H)									
11,897.6	65.18	13.44	11,756.1	48.2	660.7	394,472.40	862,437.59	32.0802426	-103.2966076
02-T02(NAN-127H) (copy)									
11,939.0	71.25	13.47	11,771.5	85.6	669.6	394,509.81	862,446.54	32.0803452	-103.2965776
12,034.0	86.68	8.46	11,789.6	176.9	687.2	394,601.07	862,464.11	32.0805956	-103.2965180
12,061.4	87.68	5.80	11,791.0	204.0	690.6	394,628.20	862,467.50	32.0806701	-103.2965062
NAN 127 EOC (copy)									
12,063.4	87.75	5.60	11,791.0	206.0	690.8	394,630.25	862,467.70	32.0806757	-103.2965055
NAN 127 EOC 1									
12,130.0	90.20	359.15	11,792.2	272.5	693.6	394,696.70	862,470.46	32.0808582	-103.2964946
12,225.0	86.11	356.78	11,795.3	367.3	690.2	394,791.56	862,467.09	32.0811191	-103.2965025
12,320.0	88.44	358.18	11,799.8	462.1	686.0	394,886.35	862,462.92	32.0813797	-103.2965130
EOC @ 12320									
12,416.0	94.81	359.32	11,797.1	558.0	683.9	394,982.24	862,460.83	32.0816433	-103.2965168
12,511.0	97.49	358.71	11,786.9	652.5	682.3	395,076.67	862,459.20	32.0819029	-103.2965191
12,607.0	93.76	356.25	11,777.5	747.9	678.1	395,172.09	862,455.00	32.0821653	-103.2965297
12,701.0	90.55	354.75	11,774.0	841.5	670.7	395,265.72	862,447.63	32.0824228	-103.2965506
12,715.8	90.32	355.01	11,773.9	856.3	669.4	395,280.49	862,446.31	32.0824634	-103.2965544
NAN 127 Waypoint 1									
12,796.0	89.10	356.42	11,774.3	936.2	663.4	395,360.43	862,440.32	32.0826833	-103.2965713
12,854.1	88.68	355.94	11,775.4	994.2	659.6	395,418.38	862,436.45	32.0828427	-103.2965820
NAN 127 Target 01 (copy)									
12,861.1	88.63	355.88	11,775.6	1,001.2	659.1	395,425.41	862,435.95	32.0828620	-103.2965834
03-T03(NAN-127H) (copy)									
12,867.0	88.58	355.84	11,775.7	1,007.0	658.6	395,431.23	862,435.52	32.0828780	-103.2965845
03-T03-1000VS(NAN127H)									
12,892.0	88.40	355.63	11,776.4	1,032.0	656.8	395,456.18	862,433.66	32.0829467	-103.2965898
12,987.0	87.08	356.34	11,780.1	1,126.7	650.1	395,550.87	862,427.02	32.0832071	-103.2966083
13,082.0	88.40	356.34	11,783.8	1,221.4	644.1	395,645.60	862,420.96	32.0834676	-103.2966249
13,177.0	89.36	356.60	11,785.7	1,316.2	638.2	395,740.40	862,415.11	32.0837283	-103.2966409



American Resource Development LLC.

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Project:	Lea County, NM (N83-NME)	TVD Reference:	GL 3,010' + 27' KB @ 3037.0usft (Nabors)
Site:	Nandina_GoldenBell	MD Reference:	GL 3,010' + 27' KB @ 3037.0usft (Nabors)
Well:	Nandina Fed Com 25-36-31 127H	North Reference:	Grid
Wellbore:	N127H	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	AUS-COMPASS - EDM_15 - 32bit

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
13,272.0	90.55	356.95	11,785.8	1,411.0	632.9	395,835.25	862,409.76	32.0839892	-103.2966552
13,367.0	89.89	359.76	11,785.4	1,506.0	630.1	395,930.20	862,407.04	32.0842502	-103.2966610
13,462.0	91.87	359.94	11,784.0	1,601.0	629.9	396,025.18	862,406.79	32.0845113	-103.2966589
13,557.0	90.73	359.24	11,781.8	1,695.9	629.2	396,120.15	862,406.11	32.0847723	-103.2966581
13,645.0	86.89	358.34	11,783.6	1,783.9	627.4	396,208.13	862,404.25	32.0850142	-103.2966614
NAN 127 Waypoint 2									
13,652.0	86.59	358.27	11,784.0	1,790.9	627.2	396,215.08	862,404.05	32.0850333	-103.2966618
13,747.0	85.85	0.64	11,790.3	1,885.6	626.3	396,309.86	862,403.14	32.0852938	-103.2966618
13,842.0	88.57	2.40	11,794.9	1,980.5	628.8	396,404.70	862,405.66	32.0855544	-103.2966507
13,864.7	87.91	1.96	11,795.6	2,003.2	629.6	396,427.37	862,406.52	32.0856167	-103.2966473
NAN 127 Target 02 (copy)									
13,869.6	87.76	1.86	11,795.8	2,008.1	629.8	396,432.28	862,406.69	32.0856302	-103.2966466
04-T04-2000VS(NAN127H)									
13,869.8	87.76	1.86	11,795.8	2,008.3	629.8	396,432.51	862,406.70	32.0856308	-103.2966465
04-T04(NAN-127H) (copy)									
13,937.0	85.80	0.55	11,799.6	2,075.3	631.2	396,499.55	862,408.11	32.0858151	-103.2966399
14,032.0	86.46	1.17	11,806.0	2,170.1	632.6	396,594.32	862,409.53	32.0860755	-103.2966324
14,127.0	89.98	1.43	11,808.9	2,265.0	634.8	396,689.23	862,411.68	32.0863363	-103.2966225
14,222.0	92.26	1.08	11,807.1	2,360.0	636.9	396,784.18	862,413.76	32.0865972	-103.2966128
14,315.0	92.47	0.40	11,803.2	2,452.9	638.1	396,877.07	862,414.96	32.0868525	-103.2966061
NMNMA119762 Exit at 14315.0 MD									
14,318.0	92.48	0.38	11,803.1	2,455.9	638.1	396,880.09	862,414.99	32.0868608	-103.2966059
14,413.0	92.26	0.91	11,799.2	2,550.8	639.2	396,975.01	862,416.05	32.0871217	-103.2965995
14,509.0	92.75	0.73	11,795.0	2,646.7	640.5	397,070.90	862,417.43	32.0873852	-103.2965921
14,604.0	91.52	1.26	11,791.4	2,741.6	642.2	397,165.82	862,419.08	32.0876460	-103.2965838
14,700.0	89.71	0.47	11,790.4	2,837.6	643.6	397,261.80	862,420.52	32.0879098	-103.2965762
14,795.0	88.79	1.43	11,791.7	2,932.6	645.2	397,356.78	862,422.10	32.0881708	-103.2965681
14,836.3	88.90	1.66	11,792.5	2,973.8	646.3	397,398.01	862,423.21	32.0882841	-103.2965633
NAN 127 Waypoint 3									
14,864.3	88.98	1.81	11,793.0	3,001.8	647.2	397,425.99	862,424.06	32.0883610	-103.2965597
NAN 127 Target 03 (copy)									
14,868.8	88.99	1.84	11,793.1	3,006.3	647.3	397,430.52	862,424.20	32.0883734	-103.2965591
05-T05-3000VS(NAN127H)									
14,871.7	89.00	1.85	11,793.1	3,009.2	647.4	397,433.39	862,424.29	32.0883813	-103.2965587
05-T05(NAN-127H) (copy)									
14,891.0	89.05	1.96	11,793.5	3,028.5	648.0	397,452.72	862,424.94	32.0884344	-103.2965560
14,986.0	88.09	2.40	11,795.8	3,123.4	651.7	397,547.62	862,428.55	32.0886952	-103.2965414
15,081.0	85.71	0.29	11,801.0	3,218.2	653.9	397,642.44	862,430.78	32.0889557	-103.2965312
15,176.0	86.77	359.68	11,807.2	3,313.0	653.9	397,737.23	862,430.75	32.0892163	-103.2965284
15,271.0	86.42	0.55	11,812.9	3,407.9	654.1	397,832.07	862,430.94	32.0894769	-103.2965248
15,367.0	87.34	1.52	11,818.1	3,503.7	655.8	397,927.91	862,432.68	32.0897403	-103.2965163
15,462.0	89.36	359.59	11,820.8	3,598.6	656.7	398,022.85	862,433.59	32.0900012	-103.2965103
15,558.0	91.21	357.21	11,820.3	3,694.6	654.0	398,118.80	862,430.91	32.0902650	-103.2965160
15,654.0	88.22	356.69	11,820.8	3,790.4	648.9	398,214.65	862,425.81	32.0905286	-103.2965295
15,750.0	89.76	358.36	11,822.5	3,886.3	644.8	398,310.54	862,421.66	32.0907922	-103.2965399
15,829.6	89.03	358.29	11,823.3	3,965.9	642.4	398,390.10	862,419.33	32.0910110	-103.2965450
NAN 127 Waypoint 4									
15,846.0	88.88	358.27	11,823.6	3,982.3	641.9	398,406.49	862,418.84	32.0910560	-103.2965461
15,859.6	88.70	358.28	11,823.9	3,995.9	641.5	398,420.09	862,418.43	32.0910934	-103.2965470
NAN 127 Target 04 (copy)									
15,867.1	88.61	358.29	11,824.1	4,003.4	641.3	398,427.63	862,418.21	32.0911141	-103.2965475
06-T06(NAN-127H) (copy)									



American Resource Development LLC.

Survey Report - Geographic

Company:	Ameredev Operating	Local Co-ordinate Reference:	Well Nandina Fed Com 25-36-31 127H
Project:	Lea County, NM (N83-NME)	TVD Reference:	GL 3,010' + 27' KB @ 3037.0usft (Nabors)
Site:	Nandina_GoldenBell	MD Reference:	GL 3,010' + 27' KB @ 3037.0usft (Nabors)
Well:	Nandina Fed Com 25-36-31 127H	North Reference:	Grid
Wellbore:	N127H	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	AUS-COMPASS - EDM_15 - 32bit

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,870.1	88.57	358.29	11,824.2	4,006.4	641.2	398,430.62	862,418.12	32.0911224	-103.2965477
06-T06-4000VS(NAN127H)									
15,941.0	87.65	358.36	11,826.5	4,077.2	639.2	398,501.41	862,416.05	32.0913170	-103.2965521
16,037.0	92.09	358.80	11,826.7	4,173.1	636.8	398,597.35	862,413.67	32.0915808	-103.2965568
16,132.0	91.82	358.88	11,823.5	4,268.1	634.9	398,692.28	862,411.75	32.0918417	-103.2965601
16,227.0	90.46	357.92	11,821.6	4,363.0	632.2	398,787.22	862,409.10	32.0921027	-103.2965657
16,323.0	90.86	357.04	11,820.5	4,458.9	628.0	398,883.12	862,404.88	32.0923664	-103.2965764
16,418.0	91.69	357.30	11,818.4	4,553.8	623.3	398,977.98	862,400.19	32.0926273	-103.2965886
16,514.0	91.82	357.30	11,815.4	4,649.6	618.8	399,073.83	862,395.67	32.0928908	-103.2966002
16,565.0	90.68	356.16	11,814.3	4,700.5	615.9	399,124.73	862,392.76	32.0930308	-103.2966080
16,660.0	90.33	355.19	11,813.5	4,795.2	608.7	399,219.46	862,385.59	32.0932914	-103.2966282
16,756.0	92.09	357.92	11,811.5	4,891.0	602.9	399,315.25	862,379.83	32.0935548	-103.2966438
16,809.5	92.78	358.94	11,809.2	4,944.4	601.5	399,368.66	862,378.36	32.0937016	-103.2966469
NAN 127 Waypoint 5									
16,852.0	93.32	359.76	11,806.9	4,986.9	601.0	399,411.11	862,377.88	32.0938183	-103.2966471
16,868.6	93.27	359.79	11,806.0	5,003.5	600.9	399,427.73	862,377.82	32.0938640	-103.2966468
NAN 127 Target 05 (copy)									
16,871.5	93.26	359.80	11,805.8	5,006.4	600.9	399,430.62	862,377.81	32.0938720	-103.2966468
07-T07-5000VS(NAN127H)									
16,875.7	93.24	359.80	11,805.6	5,010.6	600.9	399,434.77	862,377.79	32.0938834	-103.2966467
07-T07(NAN-127H) (copy)									
16,947.0	93.01	359.94	11,801.7	5,081.8	600.7	399,505.97	862,377.64	32.0940791	-103.2966450
17,042.0	91.65	359.24	11,797.8	5,176.7	600.1	399,600.89	862,376.96	32.0943400	-103.2966442
17,138.0	91.91	0.29	11,794.8	5,272.6	599.7	399,696.84	862,376.56	32.0946037	-103.2966425
17,234.0	90.86	357.57	11,792.5	5,368.6	597.9	399,792.78	862,374.77	32.0948674	-103.2966453
17,329.0	90.86	358.97	11,791.1	5,463.5	595.0	399,887.73	862,371.90	32.0951285	-103.2966516
17,424.0	92.92	2.93	11,788.0	5,558.4	596.6	399,982.64	862,373.47	32.0953893	-103.2966436
17,520.0	92.00	2.75	11,783.8	5,654.2	601.3	400,078.43	862,378.23	32.0956525	-103.2966253
17,615.0	92.44	1.26	11,780.2	5,749.1	604.7	400,173.30	862,381.55	32.0959131	-103.2966116
17,710.0	90.20	1.26	11,778.0	5,844.0	606.7	400,268.24	862,383.64	32.0961740	-103.2966019
17,806.0	89.67	2.66	11,778.1	5,940.0	610.0	400,364.18	862,386.92	32.0964376	-103.2965884
17,868.7	89.70	1.84	11,778.4	6,002.7	612.5	400,426.87	862,389.38	32.0966098	-103.2965785
NAN 127 Waypoint 6									
17,868.8	89.70	1.84	11,778.4	6,002.7	612.5	400,426.92	862,389.38	32.0966100	-103.2965785
NAN 127 Target 06 (copy)									
17,872.3	89.70	1.79	11,778.5	6,006.2	612.6	400,430.40	862,389.49	32.0966196	-103.2965780
08-T08-6000VS(NAN127H)									
17,875.6	89.70	1.75	11,778.5	6,009.5	612.7	400,433.71	862,389.60	32.0966286	-103.2965776
08-T08(NAN-127H) (copy)									
17,900.0	89.71	1.43	11,778.6	6,033.9	613.4	400,458.12	862,390.27	32.0966957	-103.2965746
17,996.0	89.49	0.20	11,779.3	6,129.9	614.7	400,554.11	862,391.64	32.0969595	-103.2965672
18,091.0	93.45	1.70	11,776.8	6,224.8	616.3	400,649.04	862,393.21	32.0972204	-103.2965592
18,186.0	92.09	359.24	11,772.2	6,319.7	617.1	400,743.92	862,393.99	32.0974811	-103.2965537
18,281.0	91.61	0.19	11,769.2	6,414.6	616.6	400,838.83	862,393.52	32.0977420	-103.2965523
NMNMA137469 Exit at 18281.0 MD									
18,282.0	91.60	0.20	11,769.1	6,415.7	616.6	400,839.87	862,393.52	32.0977449	-103.2965523
18,377.0	91.60	1.61	11,766.5	6,510.6	618.1	400,934.81	862,395.02	32.0980058	-103.2965445
18,472.0	92.75	3.19	11,762.9	6,605.4	622.1	401,029.66	862,399.00	32.0982664	-103.2965287
18,567.0	89.58	1.52	11,761.0	6,700.3	626.0	401,124.54	862,402.90	32.0985271	-103.2965132
18,662.0	89.19	1.43	11,762.0	6,795.3	628.4	401,219.51	862,405.34	32.0987880	-103.2965023
18,757.0	89.58	358.71	11,763.0	6,890.3	628.6	401,314.49	862,405.46	32.0990491	-103.2964990
18,833.0	89.13	357.94	11,763.9	6,966.2	626.3	401,390.46	862,403.24	32.0992579	-103.2965038
NAN 127 Waypoint 7									
18,853.0	89.01	357.74	11,764.2	6,986.2	625.6	401,410.44	862,402.48	32.0993128	-103.2965056



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Survey Report - Geographic

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Project:	Lea County, NM (N83-NME)	TVD Reference:	GL 3,010' + 27' KB @ 3037.0usft (Nabors)
Site:	Nandina_GoldenBell	MD Reference:	GL 3,010' + 27' KB @ 3037.0usft (Nabors)
Well:	Nandina Fed Com 25-36-31 127H	North Reference:	Grid
Wellbore:	N127H	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	AUS-COMPASS - EDM_15 - 32bit

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
18,863.5	89.14	357.77	11,764.3	6,996.7	625.2	401,420.90	862,402.07	32.0993416	-103.2965066
NAN 127 Target 07 (copy)									
18,870.6	89.22	357.79	11,764.4	7,003.8	624.9	401,427.98	862,401.80	32.0993611	-103.2965073
09-T09(NAN-127H) (copy)									
18,873.8	89.26	357.80	11,764.5	7,007.0	624.8	401,431.23	862,401.67	32.0993700	-103.2965076
09-T09-7000VS(NAN127H)									
18,948.0	90.15	358.01	11,764.9	7,081.2	622.1	401,505.37	862,398.96	32.0995739	-103.2965140
19,044.0	89.41	358.27	11,765.2	7,177.1	619.0	401,601.31	862,395.85	32.0998377	-103.2965211
19,140.0	90.59	356.78	11,765.2	7,273.0	614.8	401,697.22	862,391.70	32.1001014	-103.2965315
19,235.0	94.15	358.53	11,761.3	7,367.8	610.9	401,792.04	862,387.82	32.1003621	-103.2965411
19,331.0	96.26	357.83	11,752.6	7,463.4	607.9	401,887.59	862,384.78	32.1006248	-103.2965480
19,426.0	93.49	358.88	11,744.5	7,558.0	605.2	401,982.20	862,382.07	32.1008849	-103.2965538
19,522.0	90.15	358.01	11,741.5	7,653.9	602.6	402,078.10	862,379.46	32.1011485	-103.2965592
19,618.0	91.30	356.60	11,740.3	7,749.8	598.1	402,173.98	862,374.95	32.1014122	-103.2965708
19,696.3	91.51	355.24	11,738.3	7,827.8	592.5	402,252.03	862,369.38	32.1016268	-103.2965864
NAN 127 Waypoint 8									
19,714.0	91.56	354.93	11,737.9	7,845.5	591.0	402,269.69	862,367.86	32.1016754	-103.2965907
19,809.0	91.08	357.83	11,735.7	7,940.2	585.0	402,364.46	862,361.87	32.1019361	-103.2966071
19,867.1	92.18	357.83	11,734.0	7,998.2	582.8	402,422.45	862,359.67	32.1020955	-103.2966124
NAN 127 Target 08 (copy)									
19,874.3	92.32	357.83	11,733.8	8,005.4	582.5	402,429.64	862,359.40	32.1021153	-103.2966131
10-T10-8000VS(NAN127H)									
19,875.3	92.34	357.83	11,733.7	8,006.5	582.5	402,430.68	862,359.36	32.1021181	-103.2966132
10-T10(NAN-127H) (copy)									
19,904.0	92.88	357.83	11,732.4	8,035.1	581.4	402,459.33	862,358.27	32.1021969	-103.2966158
20,000.0	90.86	357.39	11,729.3	8,131.0	577.4	402,555.19	862,354.27	32.1024605	-103.2966257
20,095.0	90.51	358.36	11,728.1	8,225.9	573.9	402,650.12	862,350.75	32.1027215	-103.2966342
20,191.0	88.97	357.74	11,728.6	8,321.8	570.6	402,746.06	862,347.48	32.1029853	-103.2966417
20,286.0	91.30	0.03	11,728.3	8,416.8	568.7	402,841.03	862,345.63	32.1032463	-103.2966448
20,381.0	87.25	358.88	11,729.5	8,511.8	567.8	402,935.99	862,344.73	32.1035074	-103.2966447
20,477.0	89.54	2.58	11,732.2	8,607.7	569.1	403,031.93	862,345.95	32.1037710	-103.2966378
20,537.1	90.01	2.19	11,732.5	8,667.7	571.6	403,091.93	862,348.45	32.1039359	-103.2966279
NAN 127 Waypoint 9									
20,573.0	90.29	1.96	11,732.4	8,703.6	572.9	403,127.85	862,349.76	32.1040346	-103.2966225
20,668.0	90.07	1.96	11,732.1	8,798.6	576.1	403,222.79	862,353.01	32.1042954	-103.2966091
20,763.0	90.64	2.49	11,731.5	8,893.5	579.8	403,317.72	862,356.69	32.1045562	-103.2965942
20,856.0	91.25	0.91	11,730.0	8,986.4	582.6	403,410.66	862,359.45	32.1048116	-103.2965824
20,871.7	90.96	0.72	11,729.7	9,002.1	582.8	403,426.35	862,359.68	32.1048547	-103.2965812
NAN 127 Target 09 (copy)									
20,875.4	90.89	0.68	11,729.6	9,005.9	582.8	403,430.07	862,359.72	32.1048649	-103.2965810
11-T11-9000VS(NAN127H)									
20,877.3	90.86	0.66	11,729.6	9,007.7	582.8	403,431.93	862,359.74	32.1048701	-103.2965808
11-T11(NAN-127H) (copy)									
20,952.0	89.49	359.76	11,729.3	9,082.4	583.1	403,506.65	862,360.01	32.1050754	-103.2965777
21,047.0	89.41	359.06	11,730.3	9,177.4	582.1	403,601.64	862,359.04	32.1053365	-103.2965779
21,143.0	89.85	358.36	11,730.9	9,273.4	580.0	403,697.62	862,356.87	32.1056004	-103.2965819
21,239.0	88.48	356.16	11,732.3	9,369.3	575.4	403,793.49	862,352.29	32.1058640	-103.2965937
21,334.0	89.59	355.81	11,733.9	9,464.0	568.7	403,888.24	862,345.64	32.1061246	-103.2966122
21,430.0	91.21	355.90	11,733.2	9,559.8	561.8	403,983.98	862,338.70	32.1063879	-103.2966317
21,525.0	91.87	356.86	11,730.6	9,654.5	555.8	404,078.76	862,332.70	32.1066486	-103.2966481
21,633.0	92.00	357.48	11,727.0	9,762.3	550.5	404,186.56	862,327.37	32.1069450	-103.2966619
21,729.0	93.23	357.39	11,722.6	9,858.2	546.2	404,282.37	862,323.08	32.1072085	-103.2966728
21,824.0	95.60	358.80	11,715.3	9,952.8	543.0	404,377.02	862,319.93	32.1074687	-103.2966801



American Resource Development LLC.

Survey Report - Geographic

Company:	Ameredev Operating	Local Co-ordinate Reference:	Well Nandina Fed Com 25-36-31 127H
Project:	Lea County, NM (N83-NME)	TVD Reference:	GL 3,010' + 27' KB @ 3037.0usft (Nabors)
Site:	Nandina_GoldenBell	MD Reference:	GL 3,010' + 27' KB @ 3037.0usft (Nabors)
Well:	Nandina Fed Com 25-36-31 127H	North Reference:	Grid
Wellbore:	N127H	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	AUS-COMPASS - EDM_15 - 32bit

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
21,876.6	94.32	0.39	11,710.8	10,005.2	542.7	404,429.44	862,319.56	32.1076128	-103.2966796
NAN 127 Target 10 (copy)									
21,878.2	94.29	0.44	11,710.6	10,006.8	542.7	404,431.00	862,319.57	32.1076171	-103.2966795
12-T12-10000VS(NAN127H)									
21,884.8	94.13	0.64	11,710.2	10,013.4	542.7	404,437.60	862,319.63	32.1076352	-103.2966791
12-T12(NAN-127H) (copy)									
21,920.0	93.27	1.70	11,707.9	10,048.5	543.5	404,472.72	862,320.35	32.1077317	-103.2966757
22,016.0	99.82	1.96	11,696.9	10,143.8	546.5	404,567.99	862,323.39	32.1079935	-103.2966629
22,111.0	101.89	2.66	11,679.1	10,237.0	550.3	404,661.21	862,327.15	32.1082496	-103.2966479
22,119.3	101.89	2.66	11,677.4	10,245.1	550.6	404,669.29	862,327.53	32.1082718	-103.2966464
02-Nandina-127H-LTP (copy)									
22,124.0	101.89	2.66	11,676.4	10,249.7	550.8	404,673.92	862,327.74	32.1082845	-103.2966456
22,142.0	101.89	2.66	11,672.7	10,267.3	551.7	404,691.51	862,328.56	32.1083329	-103.2966424
Nandina 127H Unit Hardlines Exit at 22142.0 MD									
22,144.7	101.89	2.66	11,672.1	10,270.0	551.8	404,694.17	862,328.68	32.1083402	-103.2966419
13-LTP-280FEL(NAN127H)									
22,154.9	101.89	2.66	11,670.0	10,279.9	552.3	404,704.16	862,329.15	32.1083676	-103.2966401
13-LTP(NAN-127H) (copy)									
22,168.1	101.89	2.66	11,667.3	10,292.8	552.9	404,717.03	862,329.75	32.1084030	-103.2966378
03-Nandina-127H-BHL (copy)									
22,187.0	101.89	2.66	11,663.4	10,311.3	553.7	404,735.50	862,330.60	32.1084537	-103.2966345
14-PBHL(NAN-127H) (copy) - 14-PBHL-280FEL(NAN127H)									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8251	8220	-191	500	NMNMA119762 Exit at 8251.0 MD
11,366	11,333	-223	575	KOP @ 11366
11,505	11,467	-190	586	NMNMA119762 Entry at 11505.0 MD
11,713	11,645	-93	624	Nandina 127H Unit Hardlines Entry at 11713.0 MD
12,320	11,800	462	686	EOC @ 12320
14,315	11,803	2453	638	NMNMA119762 Exit at 14315.0 MD
18,281	11,769	6415	617	NMNMA137469 Exit at 18281.0 MD
22,142	11,673	10,267	552	Nandina 127H Unit Hardlines Exit at 22142.0 MD

Checked By: _____ Approved By: _____ Date: _____

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

General Information
Phone: (505) 629-6116

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

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

ACKNOWLEDGMENTS

Action 379177

ACKNOWLEDGMENTS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 379177
	Action Type: [C-105] Well (Re)Completion (C-105)

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.
☒	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.

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Energy, Minerals and Natural Resources
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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 379177

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 379177
	Action Type: [C-105] Well (Re)Completion (C-105)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	Log (s) if applicable need to be submitted as a [UF-WL] EP Well Log Submission separately and not with the C-105.	1/9/2025
plmartinez	Going forward submit the approved BLM 3160-4 Completion Report as a standalone (C-105). No need for the additional attached -C-102/Wellbore Schematic/3160-5 Completion Report - forms are within the approved C-104 Completion Packet and the Well Log should be submitted separately and not with C-105.	1/9/2025