



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 107H State NM	US Well Number 3002548335 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 10400041553

Section 1 - General

Well Completion Report Id: 86875**Submission Date:** 12-16-2022**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:** 10-22-2021**Date Total Measured Depth Reached:** 02-05-2022**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	1034	1034	NONE	
SALADO	SALT		1601	1409	1409	NONE	
TANSILL	LIMESTONE		-196	3206	3206	NONE	
CAPITAN REEF	LIMESTONE		-669	3679	3679	USEABLE WATER	
LAMAR	LIMESTONE		-2035	5045	5045	NONE	
BELL CANYON	SANDSTONE		-2106	5116	5116	NATURAL GAS, OIL	
BRUSHY CANYON	SANDSTONE		-4222	7232	7232	NATURAL GAS, OIL	
BONE SPRING LIME	LIMESTONE		-5241	8251	8251	NONE	
BONE SPRING 1ST	SANDSTONE		-6613	9623	9623	NATURAL GAS, OIL	
BONE SPRING 2ND	SANDSTONE		-7153	10163	10163	NATURAL GAS, OIL	
BONE SPRING 3RD	LIMESTONE		-7768	10778	10778	NATURAL GAS, OIL	
BONE SPRING 3RD	SANDSTONE		-8362	11372	11372	NATURAL GAS, OIL	
WOLFCAMP	SHALE		-8612	11622	11622	NATURAL GAS, OIL	

Completion and Completed

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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	09-04-2022	09-06-2022	WOLFCA MP	11778	22104	Y	.49	4320	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	781099	28816580	

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	39.5		FLOWS FROM WELL		SOLD	

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 PResure	Tubing Pressure Shut-In (psi)	Casing Pressure (psi)

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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	09/25/2022	24	1002	1360	3171	1357	64/64	146		1033

Well Location

Survey Type: RECTANGULAR

Survey Number:

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	32.0801278	-103.2988712	3010	N/A	N/A	FEDERAL	NMNM119762			200	FSL	990	FEL	25S	36E	31	SESE
KOP Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0791159	-103.2985154	-8244	11274	11254	FEDERAL	NMNM137807				167	FNL	876	FEL	26S	36E	6	NENE
PPP Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0868534	-103.298661	-8706	14315	11716	FEDERAL	NMNM137469				2647	FSL	948	FEL	25S	36E	31	SENE
PPP Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.0799046	-103.2986354	-8629	11763	11639	FEDERAL	NMNM119762				119	FSL	917	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	32.1082426	-103.2986316	-8566	22137	11576	FEE	FEE				134	FNL	914	FEL	25S	36E	30	NENE

BHL Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	LEA	32.1084685	-103.2986282	-8562	22186	11572	FEE	FEE	22165	22165	COMPOSITE	52	FNL	913	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	1192	13.375	68	J-55		OTHER	BTC	0
00	INTERMEDIATE	12.25	0	5177	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	11098	7.625	29.7	HCL-80		OTHER	BTC	0
00	PRODUCTION	6.75	0	22165	5.5	23	P-110		OTHER	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	788	1.73	0	Class C	302	1.35		315.4
00	INTERMEDIATE		CLASS C	1060	2.32	0	CLASS C	200	1.33		485.4
00	INTERMEDIATE		Class H	970	3.13	0	Class H	230	1.28		593.2
00	PRODUCTION		Class H	495	1.98	0	Class H	1130	1.24		424.1

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		11293	11287	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 107H State NM	US Well Number 3002548335 Lease Number(s) NMNM119762
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NANDINA_25_36_31_FEDERAL_COM_107H_FINAL_SVY_RPT_20221216113745.pdf

Final_Nandina_Fed_Com_25_36_31__107H___1in_MD_20221216113746.pdf

NANDINA_FED_COM_25_36_31_107H_As_Drilled_WBD_20230609084742.pdf

AD_NANDINA_FED_COM_25_36_31_107H_S_20230609084810.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)* At surface At top prod. interval reported below At total depth			10. Field and Pool or Exploratory		
			11. Sec., T., R., M., on Block and Survey or Area		
			12. County or Parish		13. State
14. Date Spudded		15. Date T.D. Reached		16. Date Completed ☐ D & A ☐ Ready to Prod.	
17. Elevations (DF, RKB, RT, GL)*					
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

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 / 990 FEL / TWSP: 25S / RNG: 36E / SEC: 31 / LAT: 32.0801278 / LONG: -103.2988712

KOP: NENE / 167 FNL / 876 FEL / TWSP: 26S / RNG: 36E / SEC: 6 / LAT: 32.0791159 / LONG: -103.2985154

PPP: SESE / 119 FSL / 917 FEL / TWSP: 25S / RNG: 36E / SEC: 31 / LAT: 32.0799046 / LONG: -103.2986354

PPP: SENE / 2647 FSL / 948 FEL / TWSP: 25S / RNG: 36E / SEC: 31 / LAT: 32.0868534 / LONG: -103.298661

EXIT: NENE / 134 FNL / 914 FEL / TWSP: 25S / RNG: 36E / SEC: 30 / LAT: 32.1082426 / LONG: -103.2986316

BHL: NENE / 52 FNL / 913 FEL / TWSP: 25S / RNG: 36E / SEC: 30 / LAT: 32.1084685 / LONG: -103.2986282

Summary of Porous Zones Information:

Formation: BRUSHY CANYON, Descriptions, Contents, etc: , Bottom: 7232

Formation: BONE SPRING LIME, Descriptions, Contents, etc: , Bottom: 8251

Formation: BONE SPRING 1ST, Descriptions, Contents, etc: , Bottom: 9623

Formation: BONE SPRING 2ND, Descriptions, Contents, etc: , Bottom: 10163

Formation: BONE SPRING 3RD, Descriptions, Contents, etc: , Bottom: 10778

Formation: BONE SPRING 3RD, Descriptions, Contents, etc: , Bottom: 11372

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

Attachments: 00S1

Log Attachments:

1) NANDINA_FED_COM_25_36_31_107H_As_Drilled_WBD_20230609084742.pdf

2) AD_NANDINA_FED_COM_25_36_31_107H_S_20230609084810.pdf

3) Final_Nandina_Fed_Com_25_36_31_107H_1in_MD_20221216113746.pdf

4) NANDINA_25_36_31_FEDERAL_COM_107H_FINAL_SVY_RPT_20221216113745.pdf

Nandina 25 36 31 Federal Com 107H						
Wolfcamp						
County, St: Lea, NM SHL: Section 31 , T25S , R36E 200' FSL, 990' FEL BHL: Section 30 , T25S , R36E 52' FNL, 913' 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: 7-11/16" 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: 40788 AFE #: 2020-018 API #: 30-025-48335 Permit: BLM GL: 3,010' Field: Delaware Rig: Nabors X49 KB: 32.5' Elevation: 3,043' E-Mail: drillingcgr@amerdev.com Spud Date: 10/22/2021 Rig Release Date: 2/8/2022		
General Notes	Hole Size	Casing & Cement	Geology	TVD	Mud Weight	
Surface Cement: PJSM - Rig up cement head and lines, Pressure test lines to 5000 psi, Pump 30 BBL 8.34# Fresh water, 221 bbls (788 Sks) 13.5 ppg 1.73 yld, 9.22 gal/sk Class C +4% Bentonite +.25 lb/sk Celloflake +0.125 lb/sk LCF-4, 66.5 BBL (302 Sks) 14.8 ppg 1.35 yld, 6.44 gal/sk Class C +2% CaCl +.25lb/sk celloflake +0.125 lb/sk LCF-4. Displace with 173 BBL Fresh water 8.34 ppg. Trans Tex called plug landed, bumped plug 530 psi over final pressure at 1030 psi. 172 bbls (613 sx) cement returns to surface. Bled of .5 Bbls back to truck. Floats holding. Done on 10/24/21. Casing Test: 1030 Psi (Good)	17-1/2"	Cement to Surface: 172 bbls 13.375 68 J-55 BTC 0 - 1192	Conductor	128'	8.4 - 8.6 ppg FW	
	12-1/4"		Rustler	1,034'		
Intermediate I Cement: Fill lines and test lines to 5,700 psi, pump 40 bbls weighted spacer @ 9.0 PPG, 100% HSLD 77 Lead cement 438 bbls (1060 sxs) @ 11.0 PPG - Yield 2.32 - GPS 12.87/ 8 bpm/ C-45 Econolite 0.25% - STE 2.00% - Citric Acid 0.063% - CSA-1000 Fluid Loss additive 0.11% - C-503P Defoamer - HGS-8000X Low Density Additive 3.00 #/sk - Phenoseal 2.00#/sk, 100% Class C premium Tail cement 47 bbls (200 sxs) @ 14.8ppg - 1.33 Yield - 6.33 GPS, 6 bpm - C-51 Suspension agent 0.03% - C-45 Econolite 0.10% - Citric Acid 0.05%, Drop 10.75" top plug, displace w/494 bbls 8.3 ppg fresh water @ 8 bpm, slow rate @ 470 bbls to 4 bpm, bump plug 22:32 Hrs 11.13.2021, Final circ pressure 960 psi / Bump plug @ 1490 psi / Pressure test casing to 1500 psi for 30 mins / floats holding / bleed back 3 bbls - 1 bbl (2.4 sx) Cement to surface BLM confirmed on 11/12/2021. Casing Test: 1500 Psi (Good)	5200'	Cement to Surface: 1 bbls 10.75 45.5 HC L-80 BTC 0 - 5177	Salado	1,409'	10 (180k+ chlorides) ppg Brine	
	9-7/8"		Tansill	3,206'		
Intermediate II Cement: Fill cement lines and test lines, pump 40 bbls spacer @ 9.5 ppg w/surfactant, 540 bbls (970 sxs) w/50% excess lead cement 10.5 PPG - 100% HSLD 77 - Yld 3.13 - GPS 18.89 - Salt 0.79#/sk - C-45 Econolite 0.50% - STE 4.00% - Citric acid 0.32% - CSA-10000 Fluid Loss additive - Kol Seal 3.00 #/sk - HGS-8000X Low Density Additive 1.30#/sk - Phenoseal 2.50#/sk, 52.8 bbls (230 sxs) w/25% excess tail 50:25:25% Class H Premium cement - 14.2 PPG - Pozl Mix:CPO-18 - Yld 1.28 - GPS 5.90 - Salt 0.49#/sk - C-45 Econolite 0.10% - STE 4.00 % - Citric Acid 0.04% - CSA 1000 Fluid loss Additive - CFL-1 0.30%, shut down and load top plug followed by 436 bbls fresh water displacement, 147 bbls (264 sx) cement to surface, Final lift 1700 psi, Bump plug 2200 psi, Floats holding 4.5 bbls bled back. Done on 11/19/2021. Casing Test: 2500 Psi (Good)	5177' MD 5166' TVD	Cement to Surface: 147 bbls 7.625 29.7 HC L-80 BTC 0 - 11098	Brushy Canyon	7,232'	9.0 - 9.5 ppg Cut Brine	
	6-3/4"		Bone Spring Lime	8,251'		
Production Cement: R/U cementers, fill lines, test lines to 8K psi, pump 80 bbl spacer, 175 bbl (495 sx) 12.5# 1.98 yld, 10.67 gals/sk Lead (80:20% Class C Premium: CHP-07 Light Weight, Salt 0.88#/sk, Citric Acid 0.28%, CSA-1000 0.03%, CFL-1 0.70%) cement, 114 bbl (515 sx) 14.2# 1.24 yld, 5.51 gals/sk cement Tail 1 (50:25:25% Class H Premium: Compass Poz-Mix: CPO-18, CSA1000 0.02%, CFL-1 0.45%, OF-1 LCM 1.00#/sk, C-23 High Temp Retarder 0.13%), 136 bbl (615 sx) 14.2# 1.24 yld, 5.6 gal/sk cement Tail 2 (50:25:25% Class H Premium: Compass Poz-Mix:CPO-18, CSA1000 0.02%, CFL-1 0.45%, Retarder C-20 0.16%), wash up truck, pump 5 bbl sugar water, drop plug, displace 469 bbl (slow down rate last 20 bbl), land plug 1k psi over, 79 bbls (224 sx) cement to surface. R/D cementers. Done on 2/7/2022 @ 21:45.	11098' MD 11080' TVD	CTs: No Cmt To Surface Reported bbls Flotation Collar @ 10962' MD 5.5 23 RYS P-110 Sem-FI (Eagle SFH) 0 - 11809 5.5 23 HP-110 Anaconda GT 11809 - 22165 Marker Jts @ 10965' & 17002' MD Toe Sleeves @ 22119' & 22129' MD	First Bone Spring	9,623'	10.5-12.5 ppg OBM	
	6-3/4" Lateral		Second Bone Spring	10,163'		
Lateral Length: 10188' LTP VS: 10263' FTP: 11778' LTP: 22140'	EOC 12000' MD 11680' TVD	22188' MD 11,572' TVD @ BHL 10,311' VS	Third Bone Spring Upper	10,778'		
			Third Bone Spring	11,372'		
			Wolfcamp	11,622'		

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 30-025-48335	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 107H
⁷ OGRID No. 372224	⁸ Operator Name AMEREDEV OPERATING, LLC.	⁹ Elevation 3010'

¹⁰Surface Location

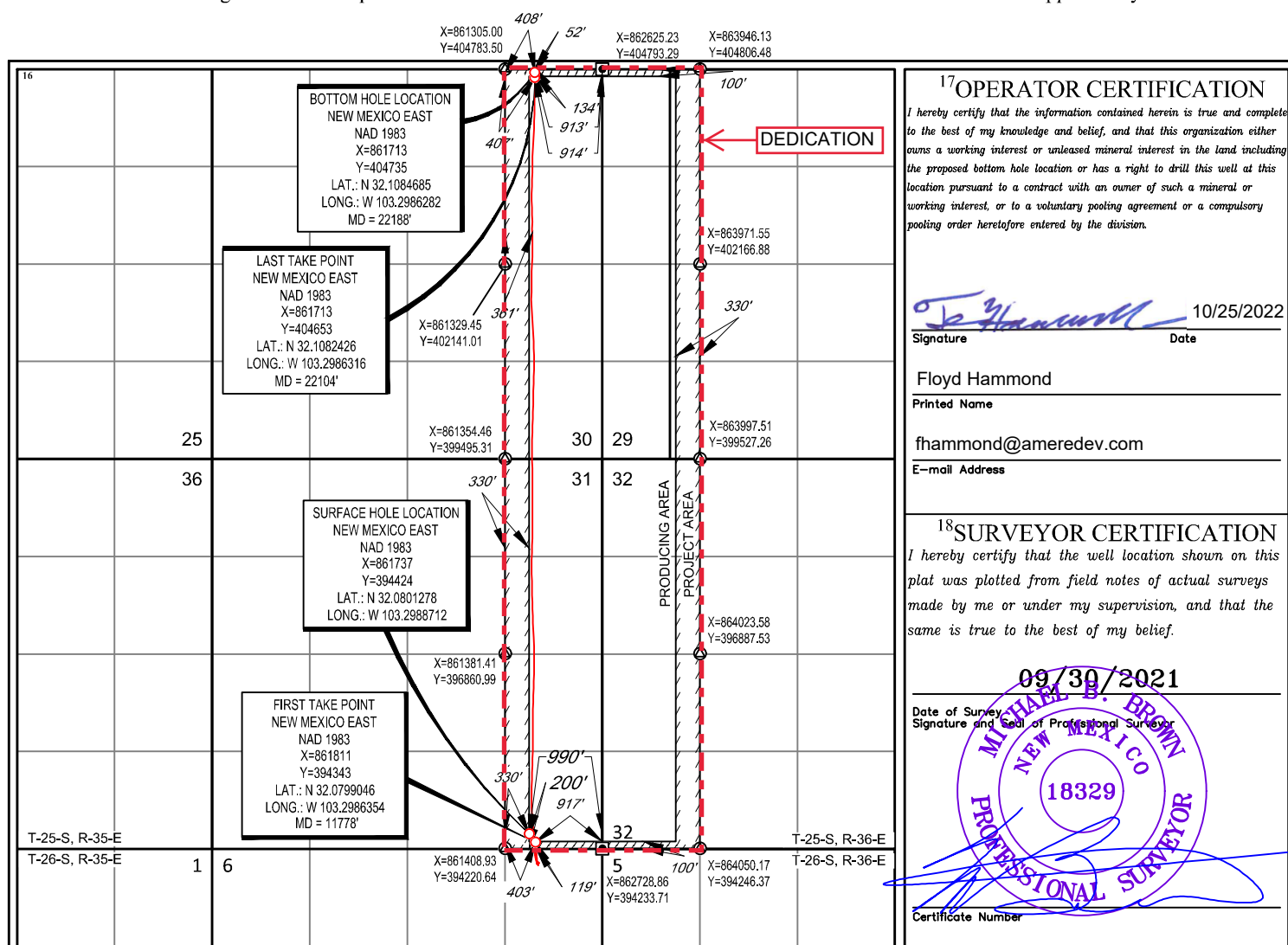
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	31	25-S	36-E	-	200'	SOUTH	990'	EAST	LEA

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	-	52'	NORTH	913'	EAST	LEA

¹² Dedicated Acres 640	¹³ Joint or Infill	¹⁴ Consolidation Code C	¹⁵ Order No.
--------------------------------------	-------------------------------	---------------------------------------	-------------------------

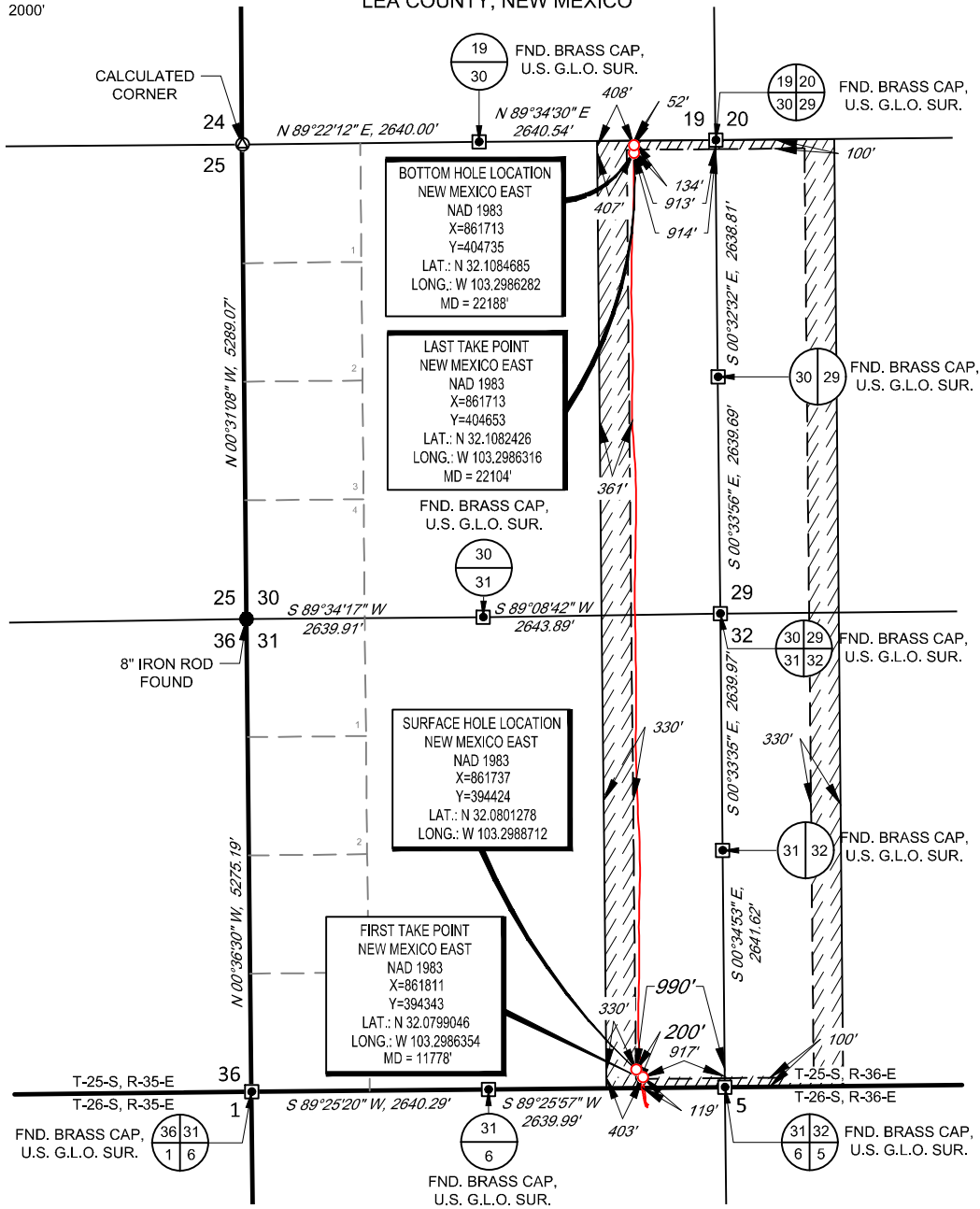
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



SCALE: 1" = 2000'

0' 1000' 2000'

SECTION 31, TOWNSHIP 25-S, RANGE 36-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: NANDINA 25 36 31 FEDERAL COM 107H
SECTION 31 TWP 25-S RGE 36-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3010'
DESCRIPTION 200' FSL & 990' FEL

AMEREDEV
AMEREDEV OPERATING, LLC

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
TEXAS FIRM REGISTRATION NO. 10042504
WWW.TOPOGRAPHIC.COM

MICHAEL B. BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR

Michael B. Brown, P.S. No. 18329
October 18, 2022

NANDINA 25 36 31 107H
AS-DRILLED

REVISION:

DATE: 10/18/22

FILE: AD_NANDINA_FED_COM_25_36_31_107H

DRAWN BY: EAH

SHEET: 2 OF 2

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.



Aim Directional Services

Nandina Fed Com 25-36-31 #107H

Scale 1":100' - MD

2/7/2022 12:17 PM

Oper. Company: Ameredev Operating, LLC

State: NM

Well: Nandina Fed Com 25-36-31 #107H

County: Lea

Field: Wolfcamp

Country: USA

Rig: Nabors X49

Location: Jal

Well ID: 30-025-48335

Start Date: 10/22/2021 00:00:00

Job Number: WT-21-156

End Date: 02/06/2022 17:00:00

Latitude: 32° 4' 48.460" N

Elev GL: 3010

Longitude: 103° 17' 55.936" W

Elev DF: 3037

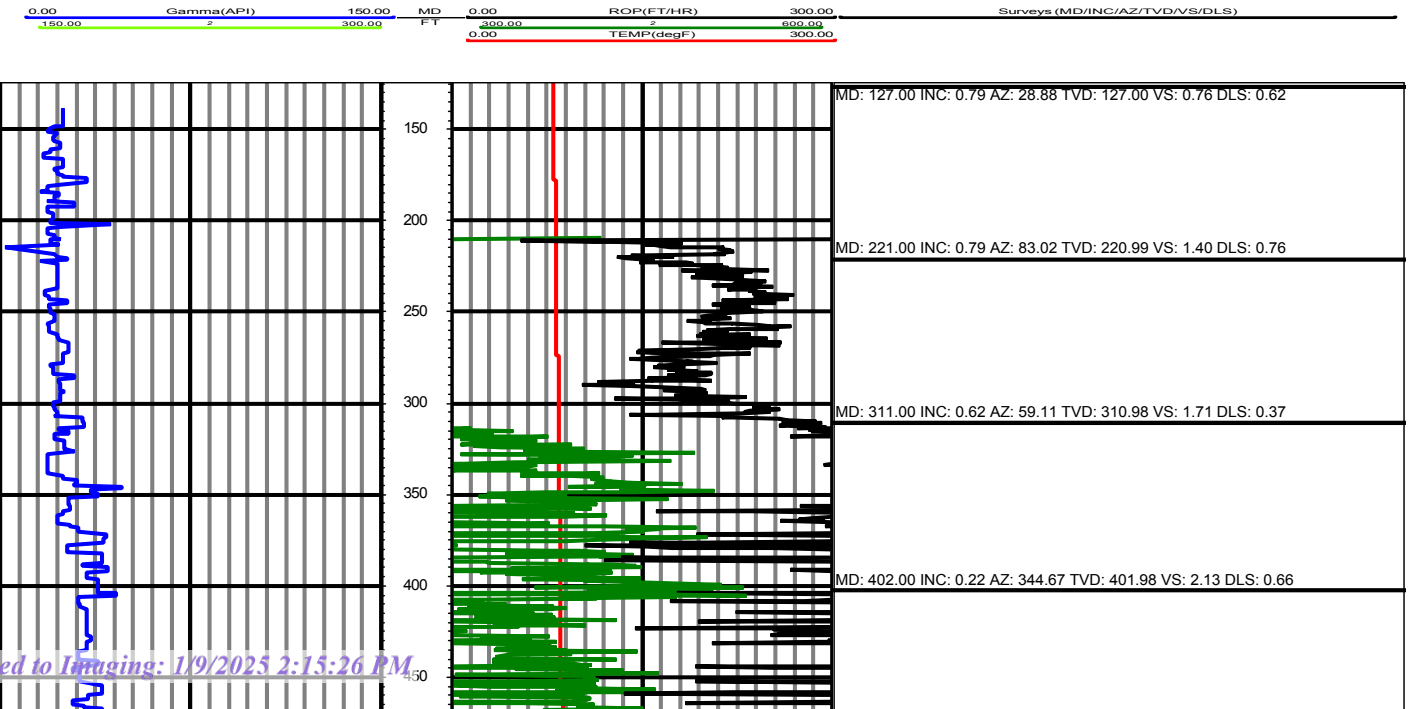
Elev KB: 3037

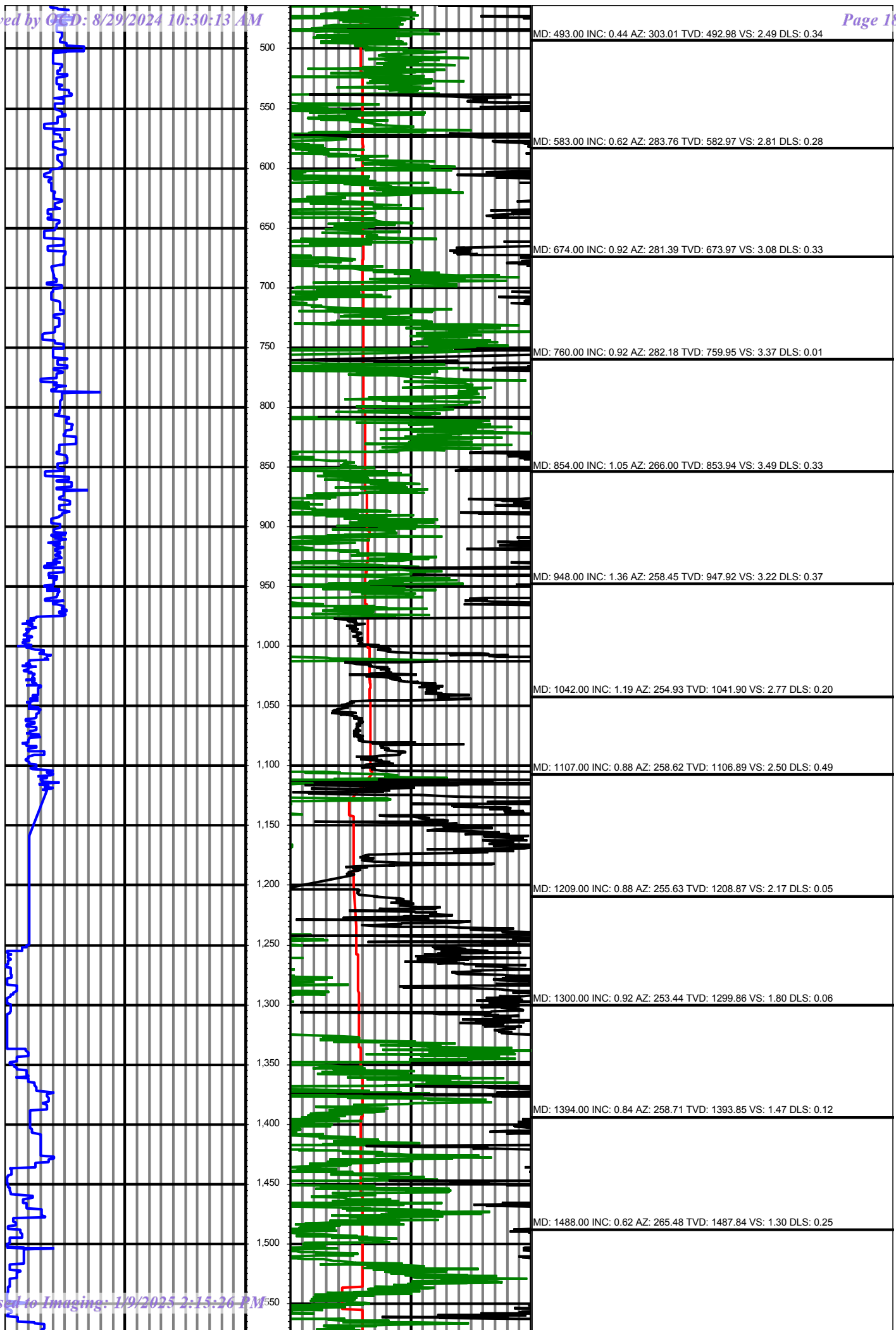
Operator 1: Aim RTOC

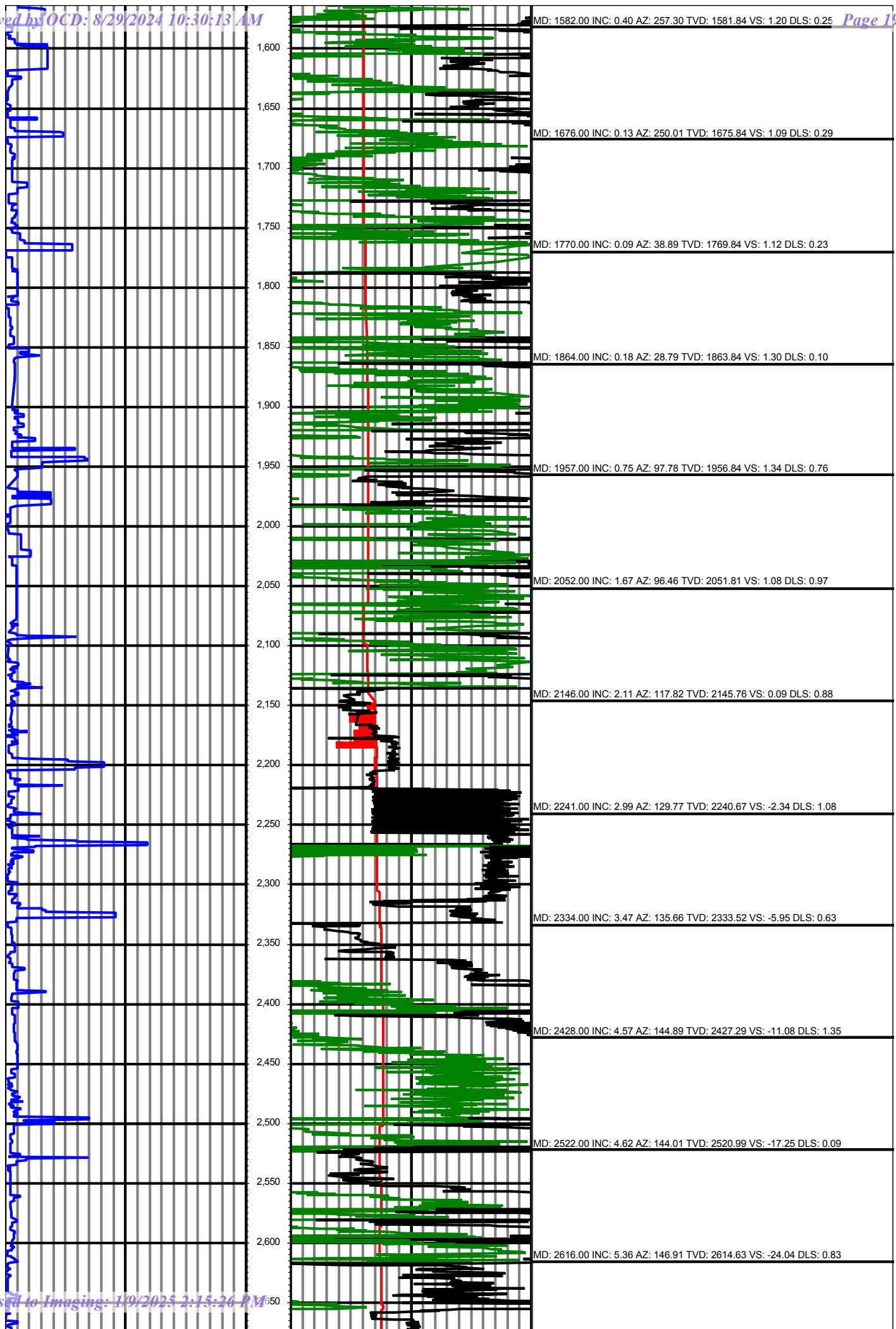
Operator 2: Aim RTOC

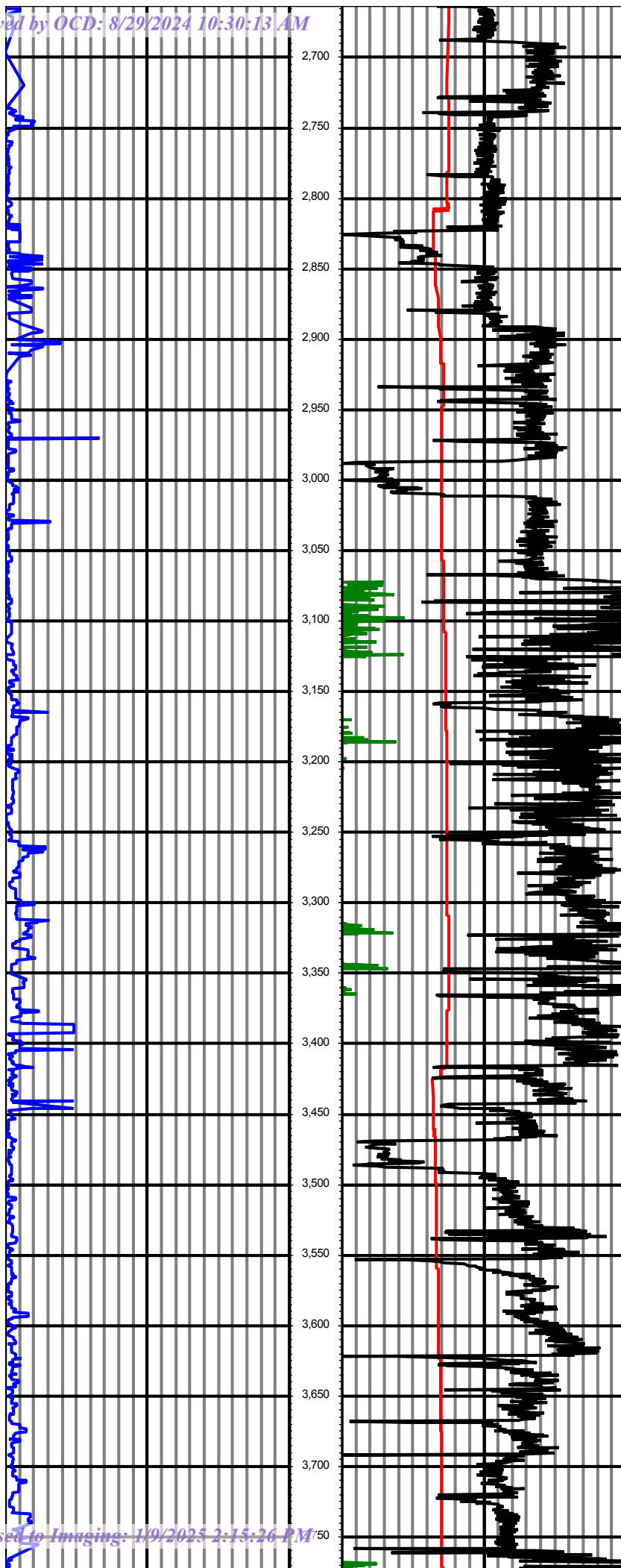
Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	G-063	G-056	G-056	G-056	G-042
Bit Size	17 1/2	12 1/4	12 1/4	9 7/8	9 7/8
Cal Factor	6.61	6.61	6.61	5.97	5.97
Survey Offset	85.00	72.00	72.00	72.00	72.00
Gamma Offset	71.00	57.00	57.00	56.00	56.00
Resistivity Offset	0.00	0.00	0.00	0.00	0.00
Start Depth	0.00	1216.00	4888.00	5200.00	7625.00
StartDate	10/21/2021	11/8/2021	11/11/2021	11/13/2021	11/14/2021
StartTime	02:30	15:00	10:43	12:00	21:30
EndDepth	1216.00	4888.00	5200.00	7625.00	8747.00
EndDate	10/21/2021	11/11/2021	11/12/2021	11/14/2021	11/15/2021
EndTime	21:00	10:00	04:30	21:00	23:40
Mud Type	WBM	WBM	WBM	WBM	OBM
Mud Weight	8.5	8.5	8.5	8.5	8.3
Funnel Viscosity	26	26	26	38	37
Plastic Viscosity	2	2	2	15	15
Yield Point	0	0	0	6	5
Gel Strength	0	0	0	6	6
Solids Content	0	0	0	5	4.5
Mud Alkalinity	0	0	0	0.1	0.1
Chlorides	0	0	0	18000	17000
Temperature	91 F	118 F	93 F	143 F	152 F
Tool Run Data	Run #6	Run #7	Run #8	Run #9	Run #10
Tool S/N	G-042	G-042	G-059	G-059	G-059
Bit Size	9 7/8	9 7/8	6 3/4	6 3/4	6 3/4
Cal Factor	5.97	5.97	2.82	2.82	2.82
Survey Offset	72.00	72.00	63.00	66.00	67.00
Gamma Offset	56.00	56.00	47.00	50.00	51.00
Resistivity Offset	0.00	0.00	0.00	0.00	0.00
Start Depth	8747.00	9956.00	11107.00	11275.00	12007.00
StartDate	11/16/2021	11/17/2021	1/17/2022	1/18/2022	1/20/2022
StartTime	00:20	00:15	14:46	13:59	02:15
EndDepth	9956.00	11107.00	11275.00	12007.00	14527.00
EndDate	11/16/2021	11/18/2021	1/18/2022	1/20/2022	1/22/2022
EndTime	23:30	09:00	18:00	01:15	07:15
Mud Type	OBM	OBM	OBM	OBM	OBM
Mud Weight	8.3	8.3	12	12	12
Funnel Viscosity	27	37	75	75	73
Plastic Viscosity	11	6	24	24	20

Yield Point	6	6	8	8	8
Gel Strength		5.5	8	8	8
Solids Content	5	5.5	19.5	19.5	19.5
Mud Alkalinity	0.1	0.1	3.5	3.3	3.3
Chlorides	14000	18000	34000	35000	36000
Temperature	158 F	163 F	142 F	154 F	194 F
Tool Run Data	Run #11	Run #12	Run #13	Run #14	Run #15
Tool S/N	G-059	G-059	G-059	G-059	G-064
Bit Size	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4
Cal Factor	2.82	2.82	2.82	2.82	3.093
Survey Offset	72.00	68.00	67.00	72.00	65.00
Gamma Offset	56.00	51.00	51.00	56.00	49.00
Resisitivity Offset	0.00	0.00	0.00	0.00	0.00
Start Depth	14527.00	16913.00	18216.00	19706.00	20917.00
StartDate	1/22/2022	1/25/2022	1/27/2022	1/30/2022	2/3/2022
StartTime	08:30	00:28	22:40	11:55	18:45
EndDepth	16913.00	18216.00	19706.00	20917.00	22188.00
EndDate	1/24/2022	1/27/2022	1/30/2022	2/3/2022	2/6/2022
EndTime	21:30	21:00	20:30	17:15	17:00
Mud Type	OBM	OBM	OBM	OBM	OBM
Mud Weight	12	12.2	12	12.3	12.5
Funnel Viscosity	70	85	85	67	79
Plastic Viscosity	20	22	20	20	23
Yield Point	8	8	8	8	10
Gel Strength	8	8	8	8	12
Solids Content	19.5	20	20	20	22
Mud Alkalinity	3.5	3.5	3.4	3.4	3.8
Chlorides	33000	33000	31000	34000	32000
Temperature	195 F	197 F	206 F	206 F	199 F
Hole Data			Casing Data		
Size	From	To	Size	From	To
17 1/2	0.00	1216.00	13.375	0.00	1206.00
12 1/4	1216.00	5200.00	10.75	0.00	5185.00
9 7/8	5200.00	11107.00			
6 3/4	11107.00	22188.00			
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: 2710.00 INC: 5.10 AZ: 142.87 TVD: 2708.24 VS: -31.10 DLS: 0.48

MD: 2804.00 INC: 5.01 AZ: 141.11 TVD: 2801.87 VS: -37.67 DLS: 0.19

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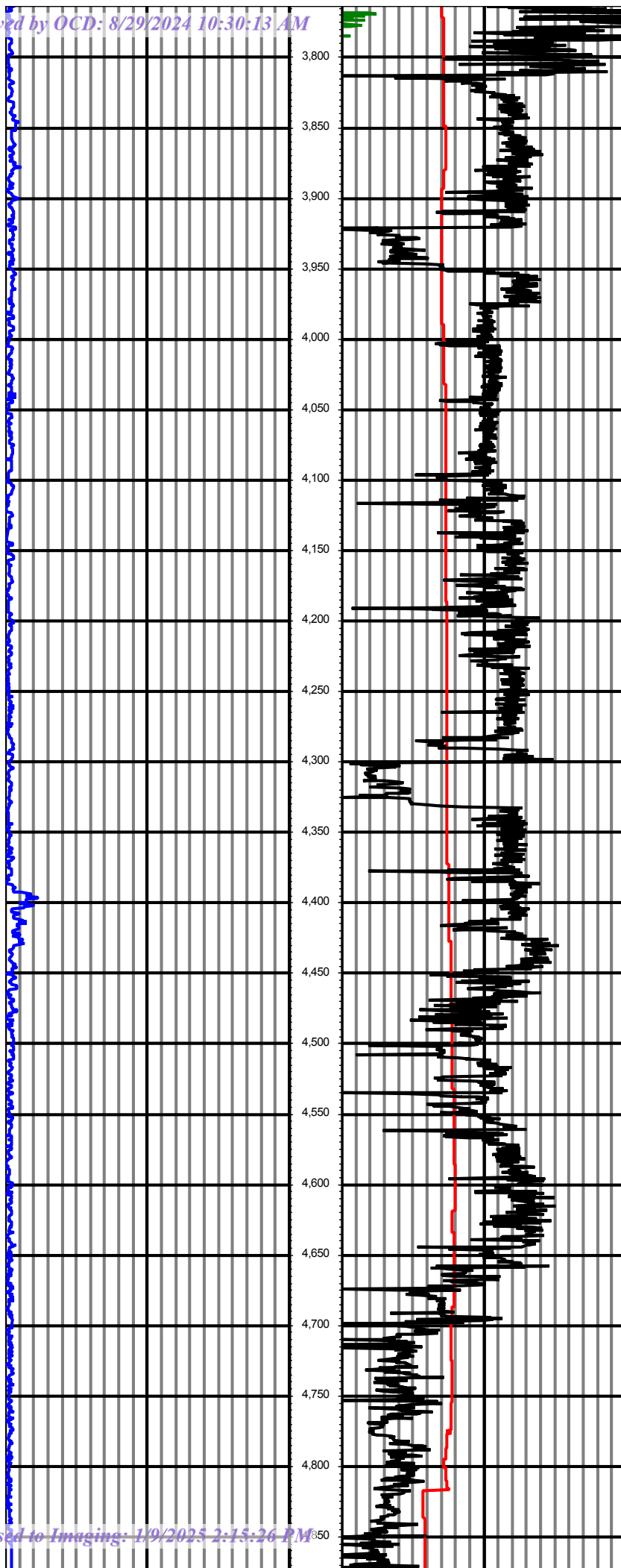
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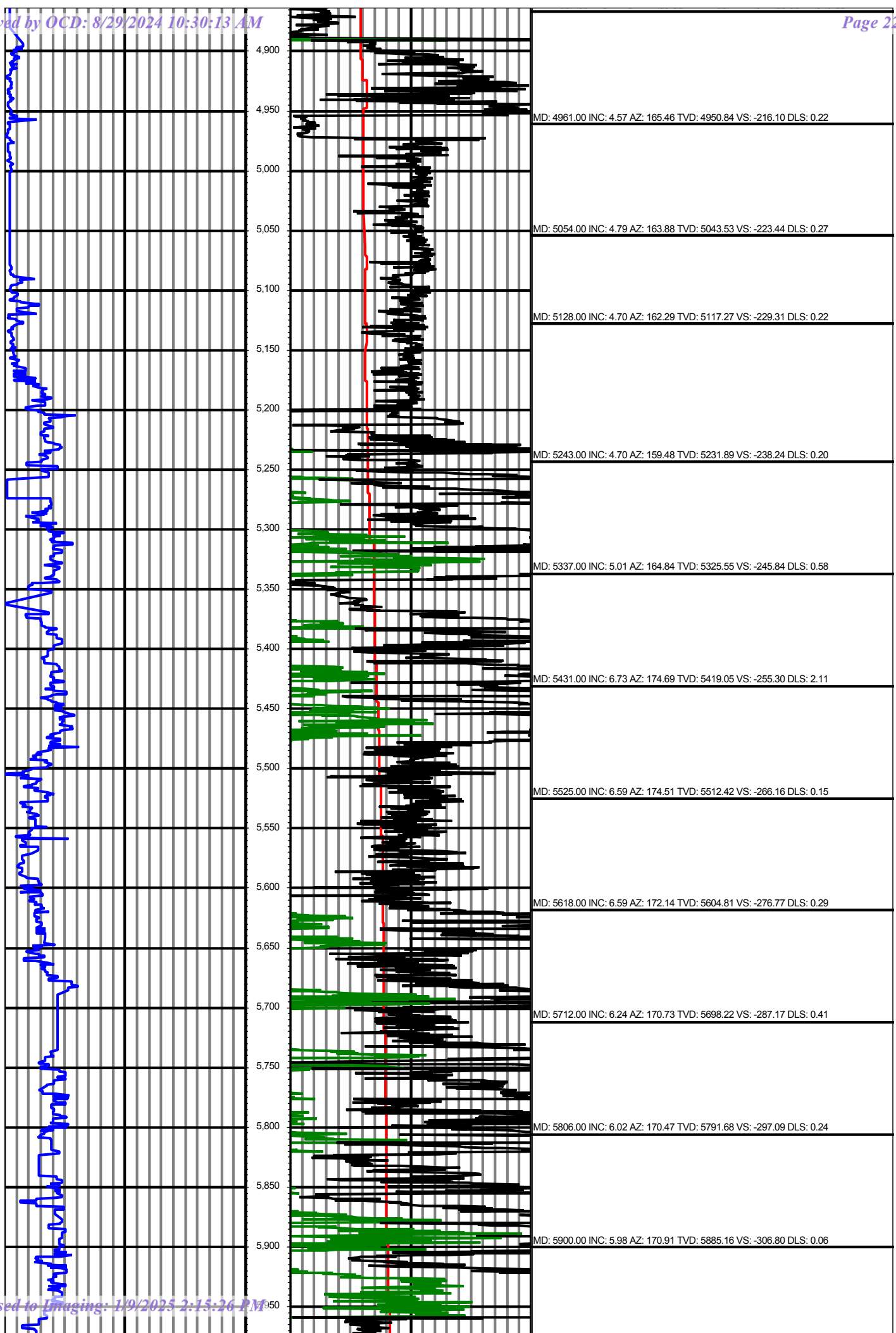
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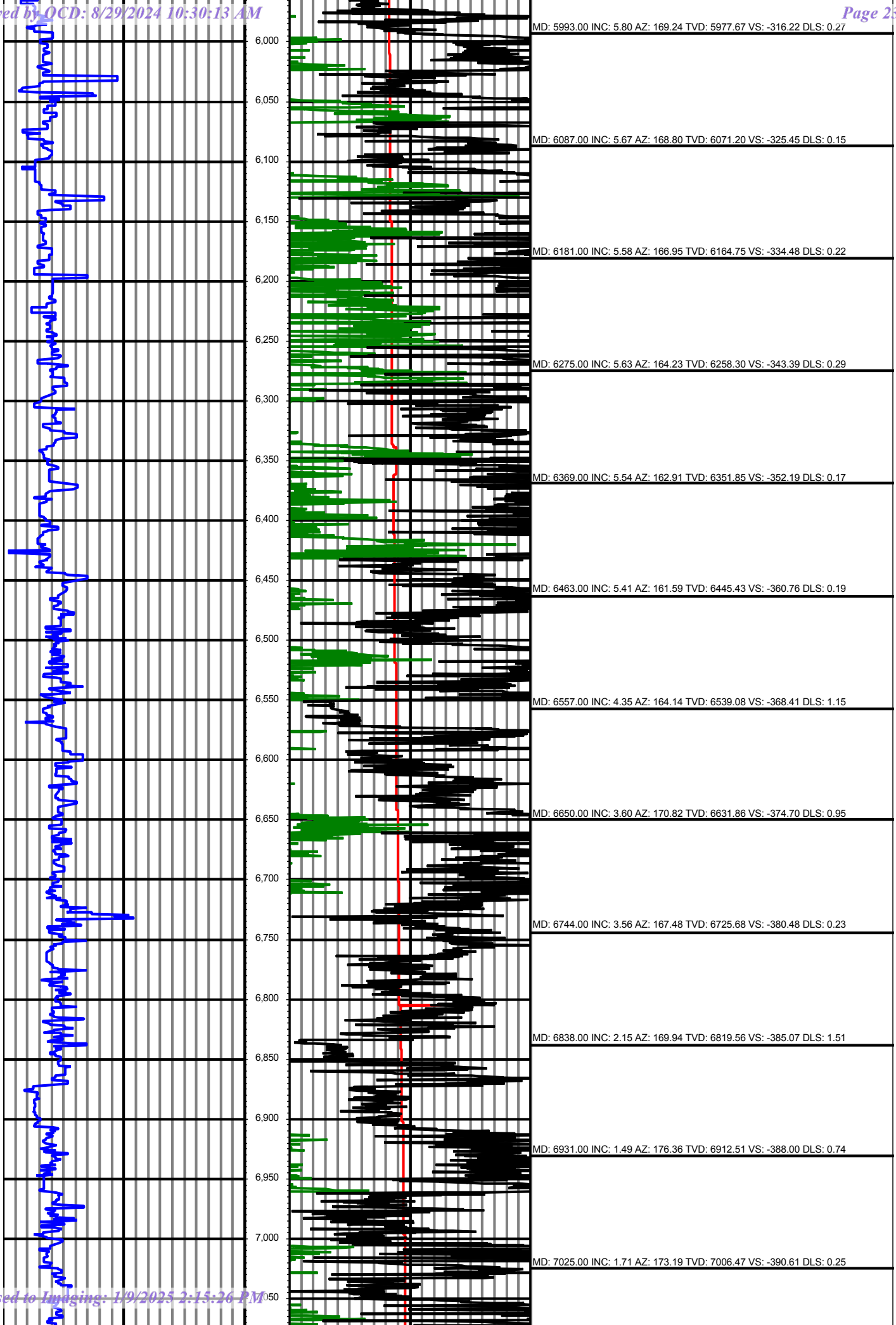
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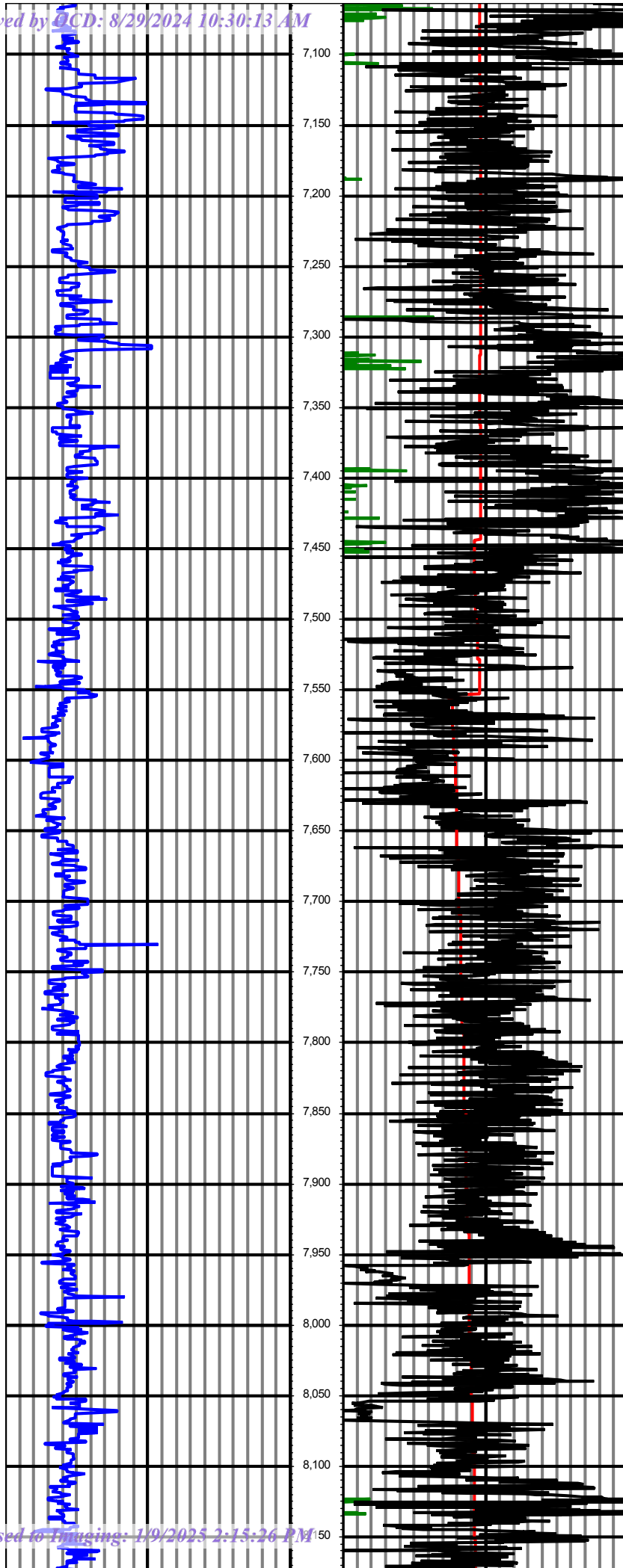
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MD: 7494.00 INC: 1.80 AZ: 130.92 TVD: 7475.29 VS: -401.98 DLS: 0.31

MD: 7588.00 INC: 1.89 AZ: 131.36 TVD: 7569.24 VS: -404.00 DLS: 0.10

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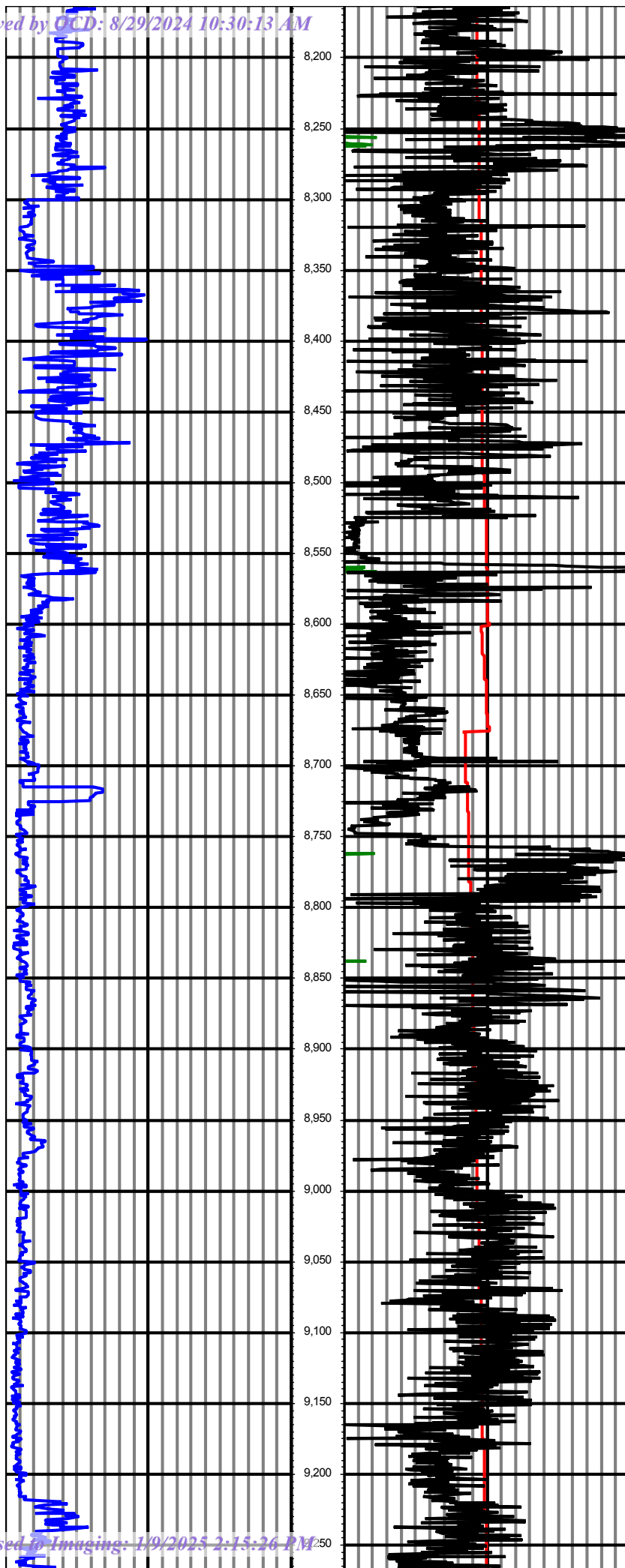
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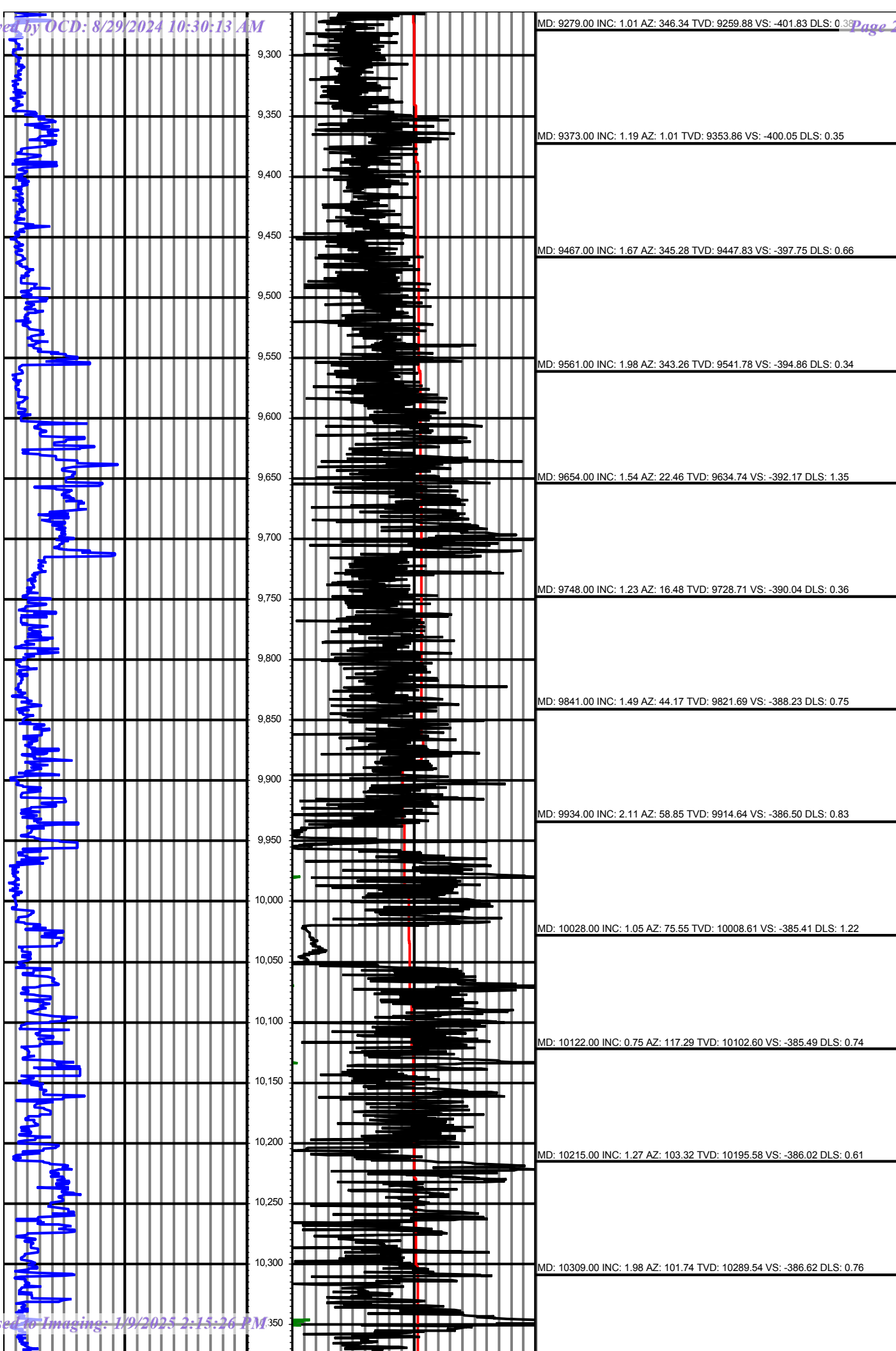
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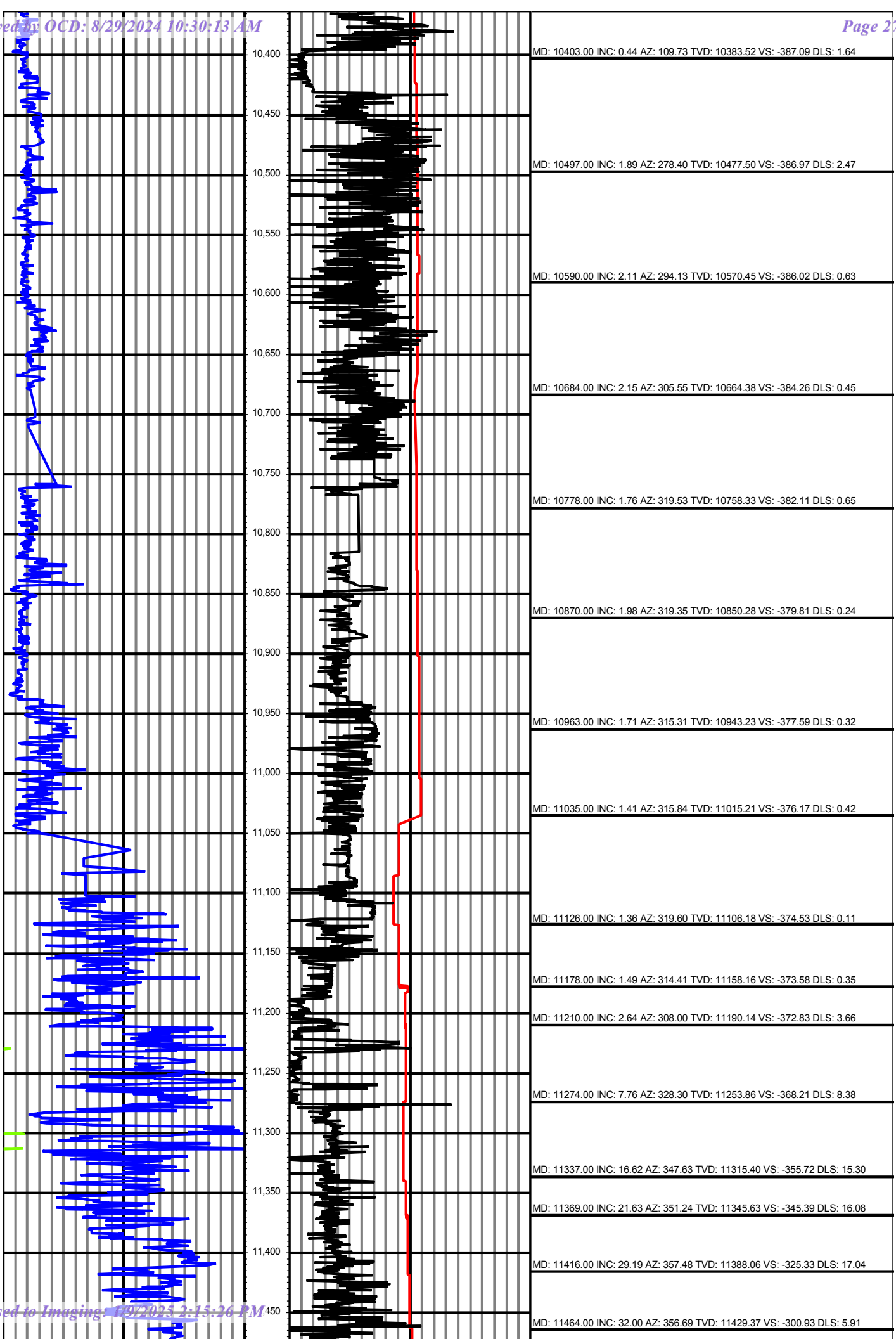
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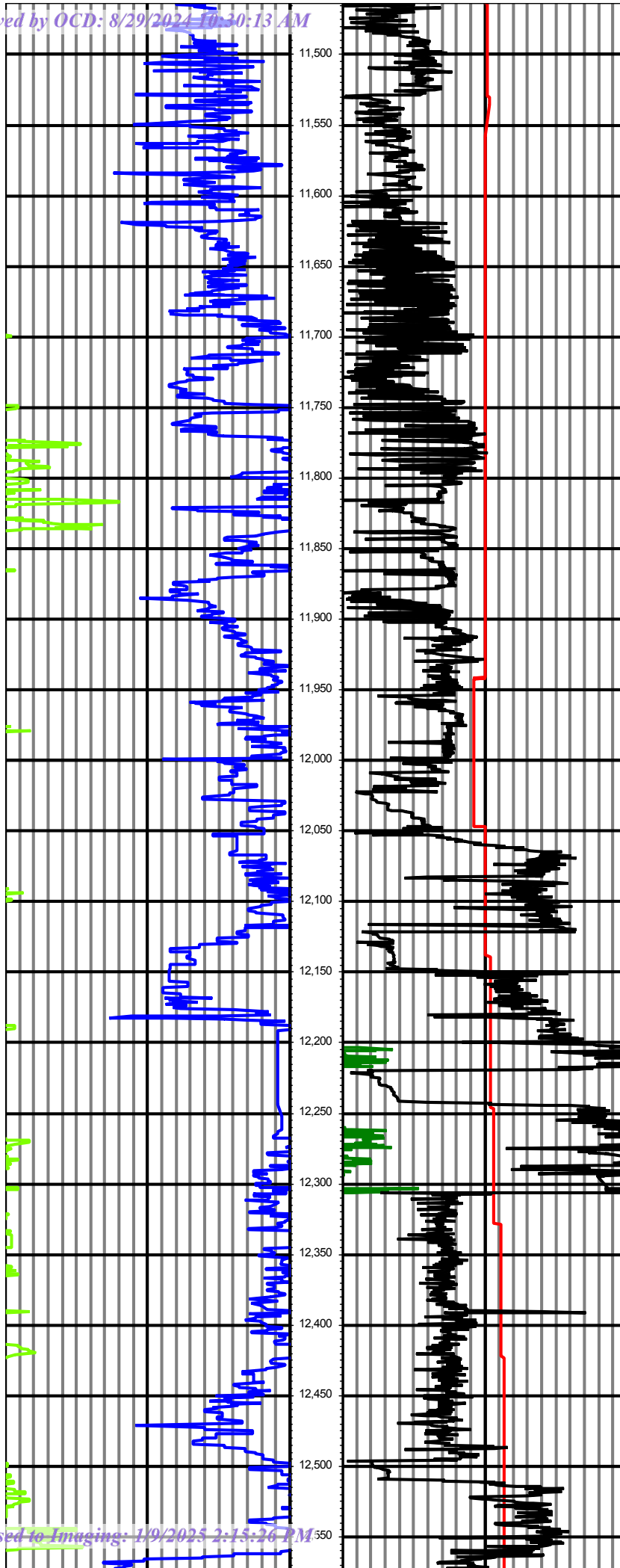
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MD: 9185.00 INC: 0.92 AZ: 325.59 TVD: 9165.89 VS: -403.27 DLS: 0.14

MD: 9279.00 INC: 1.01 AZ: 343.04 TVD: 9273.99 VS: -401.00 DLS: 0.20







MD: 11528.00 INC: 33.10 AZ: 353.79 TVD: 11483.32 VS: -266.60 DLS: 2.98

MD: 11559.00 INC: 36.09 AZ: 350.45 TVD: 11508.84 VS: -249.15 DLS: 11.42

MD: 11655.00 INC: 48.35 AZ: 350.27 TVD: 11579.80 VS: -185.57 DLS: 12.77

MD: 11750.00 INC: 62.77 AZ: 352.91 TVD: 11633.39 VS: -108.15 DLS: 15.35

MD: 11846.00 INC: 79.38 AZ: 352.56 TVD: 11664.42 VS: -18.28 DLS: 17.31

MD: 11941.00 INC: 86.11 AZ: 353.61 TVD: 11676.41 VS: 75.33 DLS: 7.17

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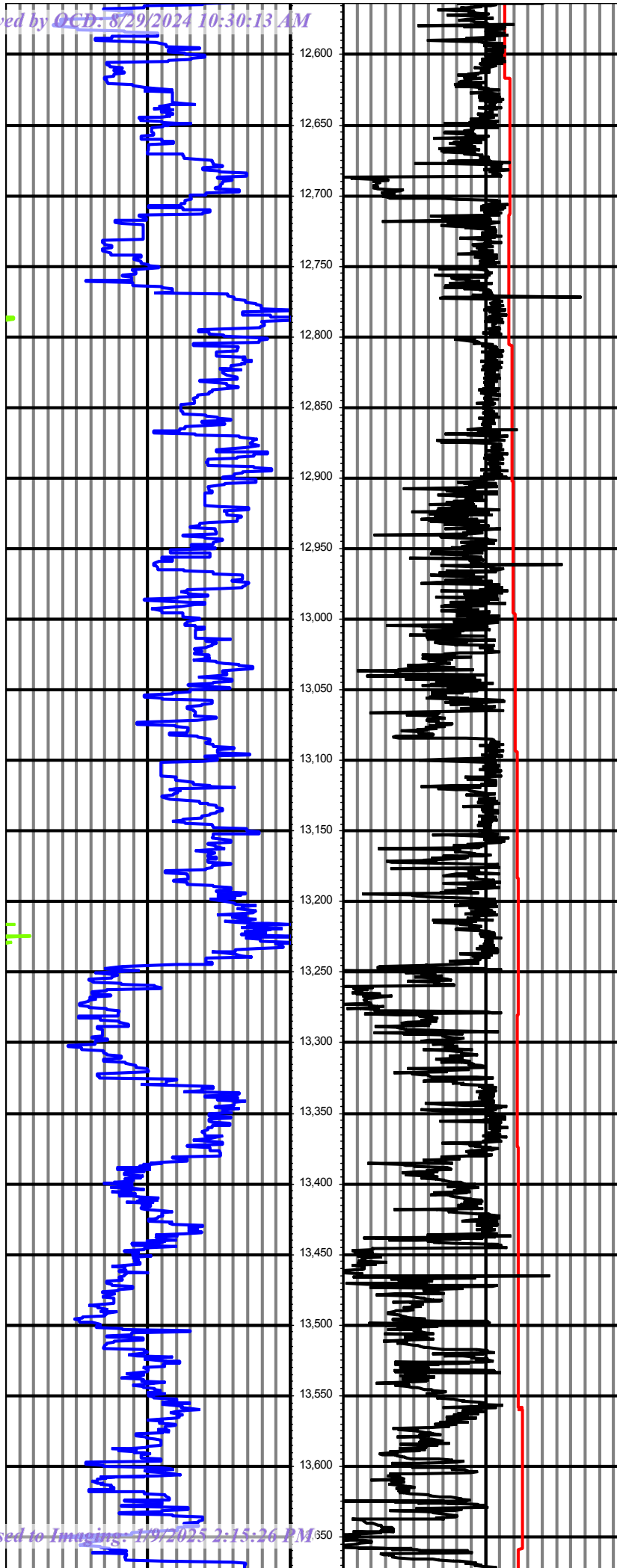
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MD: 12322.00 INC: 88.97 AZ: 359.59 TVD: 11687.99 VS: 455.08 DLS: 1.71

MD: 12418.00 INC: 89.05 AZ: 359.68 TVD: 11689.65 VS: 551.06 DLS: 0.13

MD: 12513.00 INC: 89.10 AZ: 0.99 TVD: 11691.19 VS: 646.03 DLS: 1.38



MD: 12608.00 INC: 89.49 AZ: 1.17 TVD: 11692.36 VS: 740.99 DLS: 0.45

MD: 12703.00 INC: 88.04 AZ: 1.08 TVD: 11694.40 VS: 835.92 DLS: 1.53

MD: 12798.00 INC: 87.78 AZ: 1.26 TVD: 11697.87 VS: 930.82 DLS: 0.33

MD: 12893.00 INC: 89.01 AZ: 1.26 TVD: 11700.53 VS: 1025.73 DLS: 1.29

MD: 12989.00 INC: 88.31 AZ: 0.12 TVD: 11702.77 VS: 1121.68 DLS: 1.39

MD: 13084.00 INC: 88.22 AZ: 0.03 TVD: 11705.65 VS: 1216.63 DLS: 0.13

MD: 13179.00 INC: 90.59 AZ: 359.76 TVD: 11706.64 VS: 1311.61 DLS: 2.51

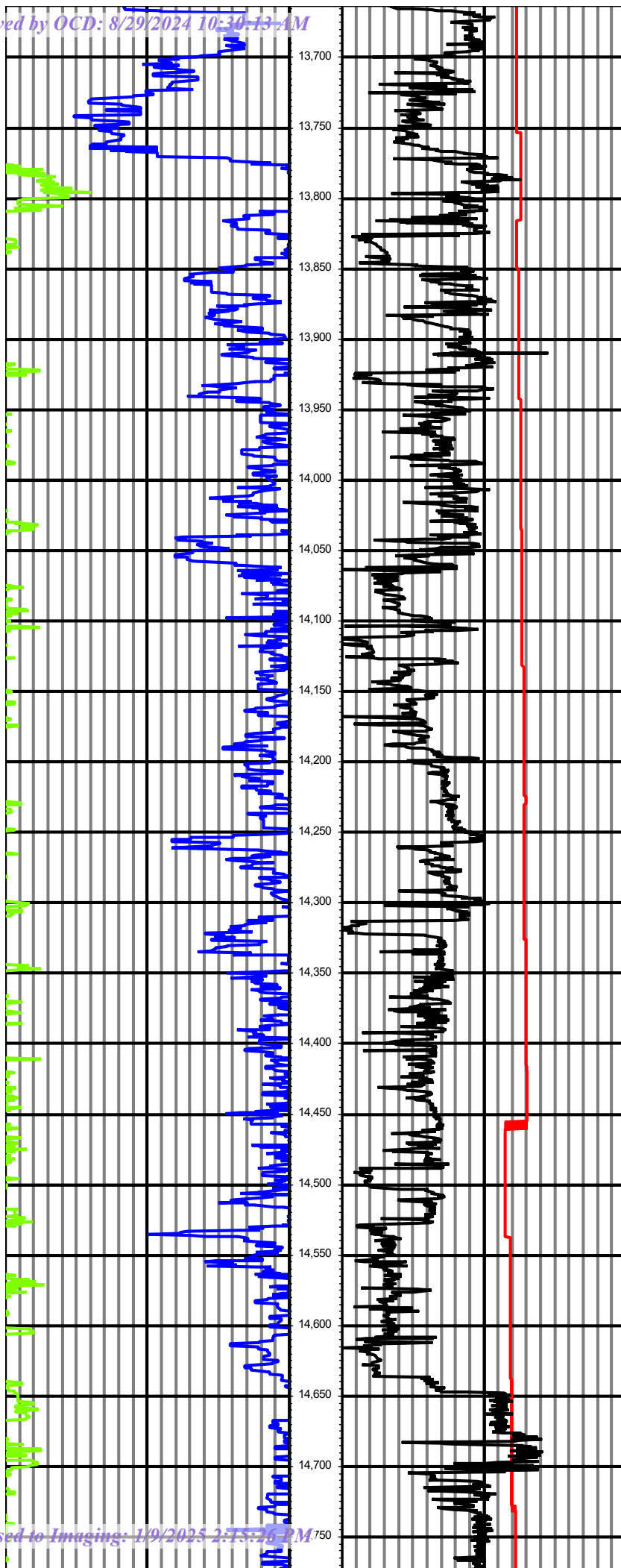
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MD: 13464.00 INC: 88.40 AZ: 0.64 TVD: 11707.76 VS: 1596.59 DLS: 2.58

MD: 13558.00 INC: 85.85 AZ: 1.08 TVD: 11712.47 VS: 1690.44 DLS: 2.75

MD: 13654.00 INC: 88.53 AZ: 359.94 TVD: 11717.18 VS: 1786.29 DLS: 3.03



MD: 13748.00 INC: 92.84 AZ: 1.96 TVD: 11716.05 VS: 1880.23 DLS: 5.06

MD: 13844.00 INC: 92.53 AZ: 1.70 TVD: 11711.56 VS: 1976.04 DLS: 0.42

MD: 13939.00 INC: 89.23 AZ: 0.55 TVD: 11710.10 VS: 2070.97 DLS: 3.68

MD: 14034.00 INC: 89.19 AZ: 1.52 TVD: 11711.41 VS: 2165.93 DLS: 1.02

MD: 14129.00 INC: 89.01 AZ: 359.41 TVD: 11712.90 VS: 2260.89 DLS: 2.23

MD: 14224.00 INC: 88.48 AZ: 358.71 TVD: 11714.98 VS: 2355.87 DLS: 0.92

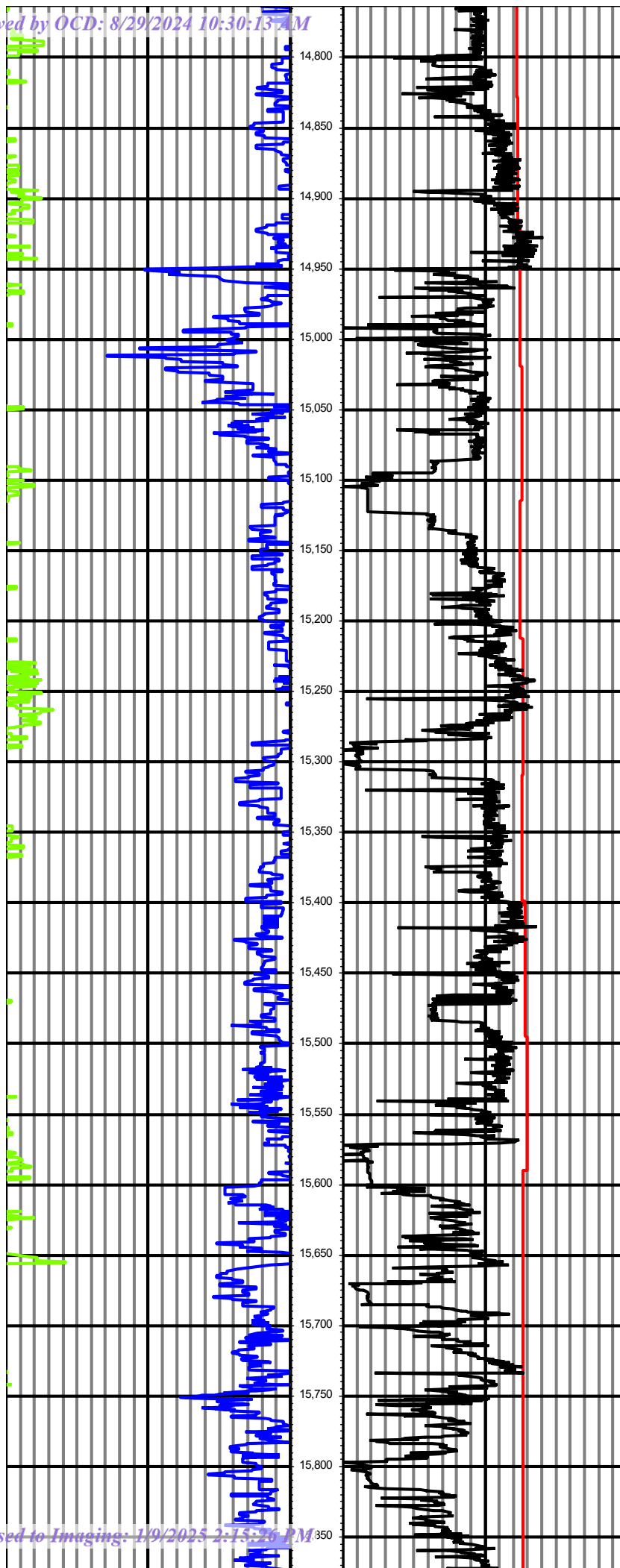
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MD: 14414.00 INC: 91.52 AZ: 359.50 TVD: 11714.80 VS: 2545.84 DLS: 1.62

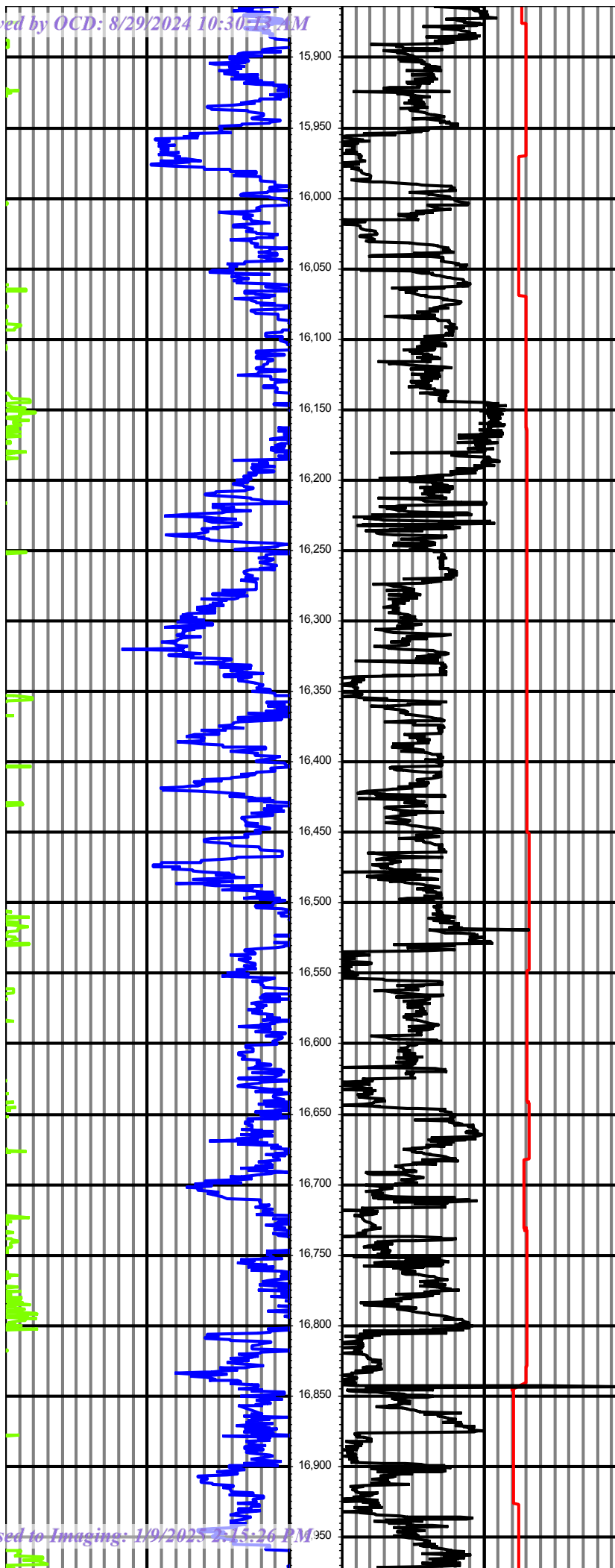
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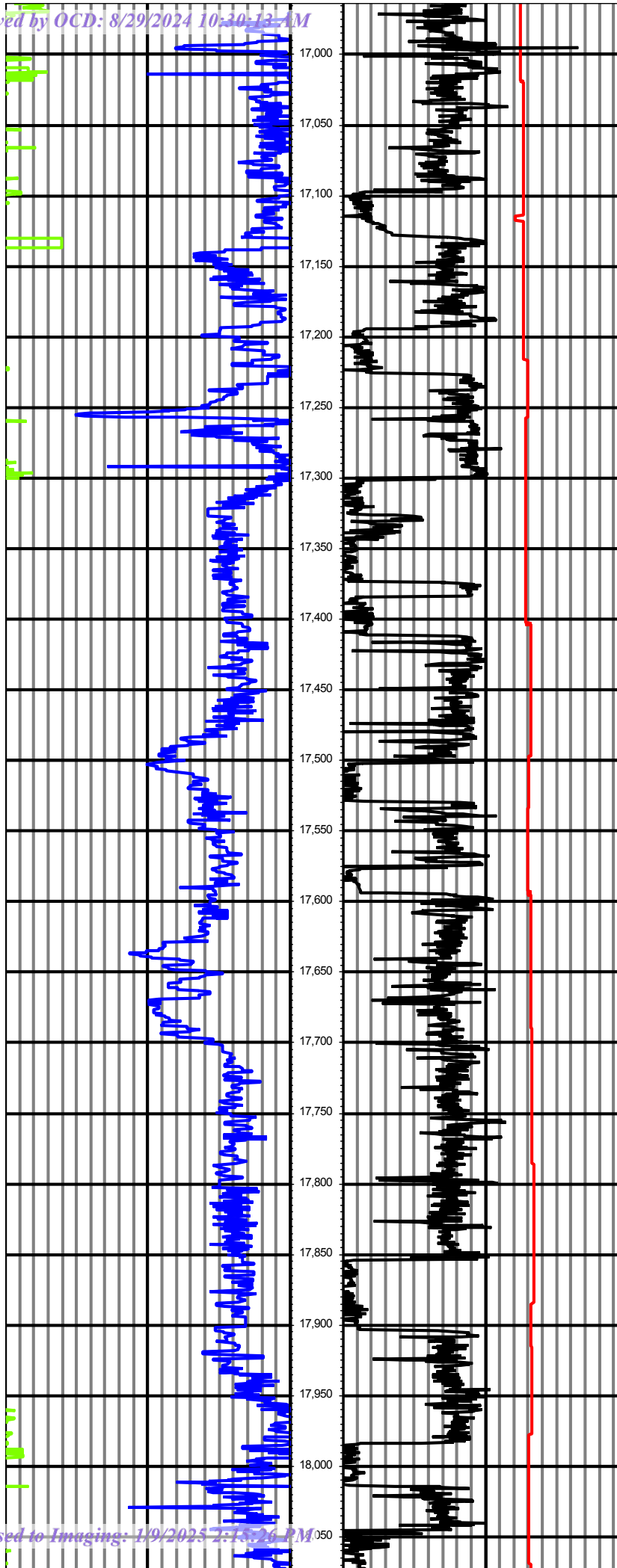
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MD: 14917.00 INC: 89.05 AZ: 357.92 TVD: 11714.02 VS: 3048.35 DLS: 0.85
MD: 15013.00 INC: 88.40 AZ: 357.57 TVD: 11716.16 VS: 3144.28 DLS: 0.77
MD: 15108.00 INC: 89.14 AZ: 357.83 TVD: 11718.20 VS: 3239.22 DLS: 0.83
MD: 15203.00 INC: 89.01 AZ: 357.92 TVD: 11719.73 VS: 3334.17 DLS: 0.17
MD: 15298.00 INC: 89.71 AZ: 359.06 TVD: 11720.79 VS: 3429.15 DLS: 1.41
MD: 15394.00 INC: 89.85 AZ: 359.41 TVD: 11721.16 VS: 3525.15 DLS: 0.39
MD: 15489.00 INC: 88.66 AZ: 358.36 TVD: 11722.39 VS: 3620.13 DLS: 1.67
MD: 15585.00 INC: 88.57 AZ: 0.64 TVD: 11724.71 VS: 3716.10 DLS: 2.38
MD: 15681.00 INC: 90.86 AZ: 1.87 TVD: 11725.19 VS: 3812.04 DLS: 2.71
MD: 15777.00 INC: 89.41 AZ: 0.99 TVD: 11724.97 VS: 3907.98 DLS: 1.77
MD: 15872.00 INC: 88.84 AZ: 359.68 TVD: 11726.42 VS: 4002.95 DLS: 1.50



MD: 15872.00 INC: 88.84 AZ: 359.68 TVD: 11726.42 VS: 4002.95 DLS: 1.50
MD: 15968.00 INC: 90.99 AZ: 0.64 TVD: 11726.56 VS: 4098.94 DLS: 2.45
MD: 16063.00 INC: 92.22 AZ: 359.50 TVD: 11723.90 VS: 4193.89 DLS: 1.76
MD: 16159.00 INC: 92.35 AZ: 359.32 TVD: 11720.07 VS: 4289.81 DLS: 0.23
MD: 16254.00 INC: 92.53 AZ: 358.62 TVD: 11716.03 VS: 4384.72 DLS: 0.76
MD: 16349.00 INC: 91.87 AZ: 359.94 TVD: 11712.38 VS: 4479.65 DLS: 1.55
MD: 16445.00 INC: 89.67 AZ: 358.97 TVD: 11711.09 VS: 4575.63 DLS: 2.50
MD: 16541.00 INC: 89.41 AZ: 359.24 TVD: 11711.86 VS: 4671.63 DLS: 0.39
MD: 16636.00 INC: 90.15 AZ: 359.76 TVD: 11712.23 VS: 4766.63 DLS: 0.95
MD: 16732.00 INC: 90.46 AZ: 359.41 TVD: 11711.71 VS: 4862.63 DLS: 0.49
MD: 16828.00 INC: 90.73 AZ: 358.62 TVD: 11710.72 VS: 4958.62 DLS: 0.87
MD: 16923.00 INC: 92.88 AZ: 358.27 TVD: 11707.72 VS: 5053.55 DLS: 2.29



MD: 17018.00 INC: 94.77 AZ: 357.92 TVD: 11701.39 VS: 5148.31 DLS: 2.02

MD: 17114.00 INC: 96.00 AZ: 359.50 TVD: 11692.38 VS: 5243.87 DLS: 2.08

MD: 17209.00 INC: 95.52 AZ: 1.52 TVD: 11682.84 VS: 5338.37 DLS: 2.18

MD: 17305.00 INC: 94.90 AZ: 1.08 TVD: 11674.13 VS: 5433.92 DLS: 0.79

MD: 17400.00 INC: 92.22 AZ: 0.55 TVD: 11668.23 VS: 5528.70 DLS: 2.88

MD: 17495.00 INC: 93.36 AZ: 0.99 TVD: 11663.60 VS: 5623.56 DLS: 1.29

MD: 17590.00 INC: 90.02 AZ: 1.17 TVD: 11660.80 VS: 5718.47 DLS: 3.52

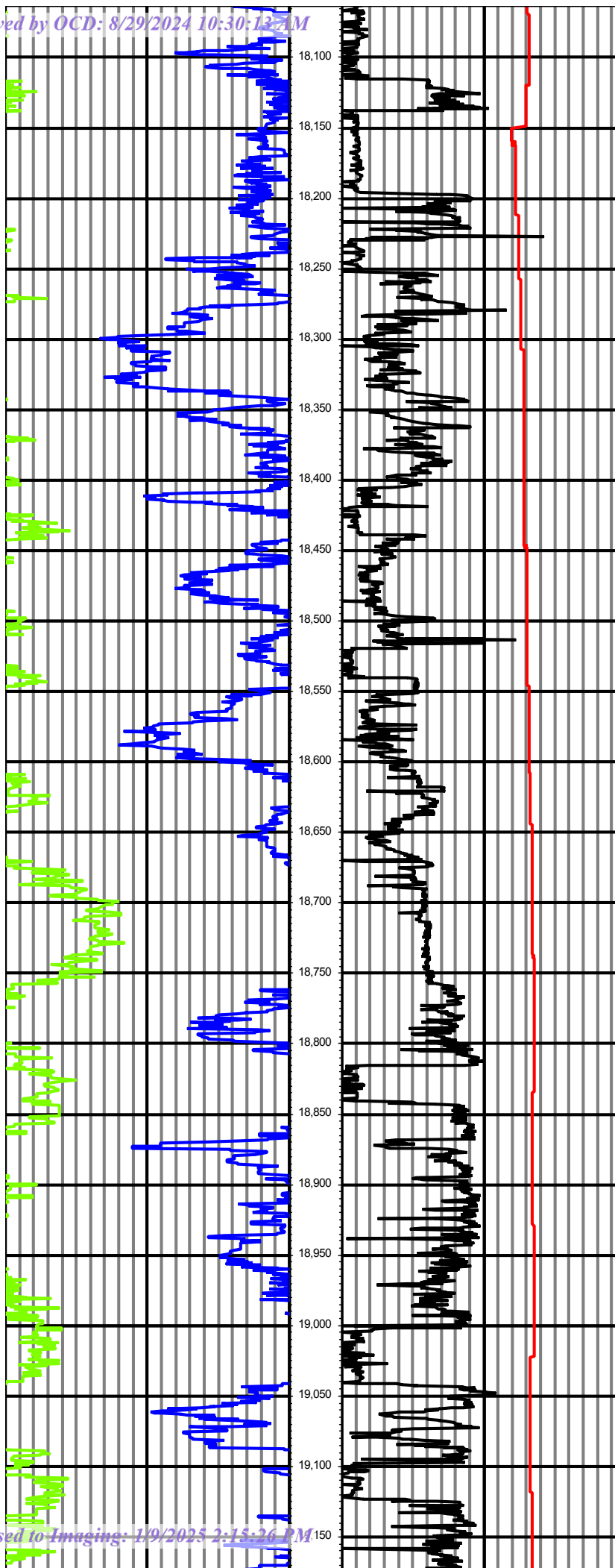
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MD: 17781.00 INC: 92.84 AZ: 1.08 TVD: 11657.15 VS: 5909.32 DLS: 2.19

MD: 17876.00 INC: 91.87 AZ: 0.55 TVD: 11653.24 VS: 6004.22 DLS: 1.16

MD: 17971.00 INC: 92.13 AZ: 0.38 TVD: 11649.93 VS: 6099.14 DLS: 0.33

MD: 18066.00 INC: 93.58 AZ: 1.17 TVD: 11645.20 VS: 6194.00 DLS: 1.74



MD: 18161.00 INC: 93.45 AZ: 0.91 TVD: 11639.37 VS: 6288.78 DLS: 0.31

MD: 18256.00 INC: 88.57 AZ: 359.24 TVD: 11637.70 VS: 6383.73 DLS: 5.43

MD: 18352.00 INC: 87.96 AZ: 358.80 TVD: 11640.60 VS: 6479.68 DLS: 0.78

MD: 18447.00 INC: 89.01 AZ: 358.09 TVD: 11643.12 VS: 6574.63 DLS: 1.33

MD: 18543.00 INC: 91.34 AZ: 356.95 TVD: 11642.82 VS: 6670.57 DLS: 2.70

MD: 18637.00 INC: 91.52 AZ: 356.86 TVD: 11640.48 VS: 6764.45 DLS: 0.21

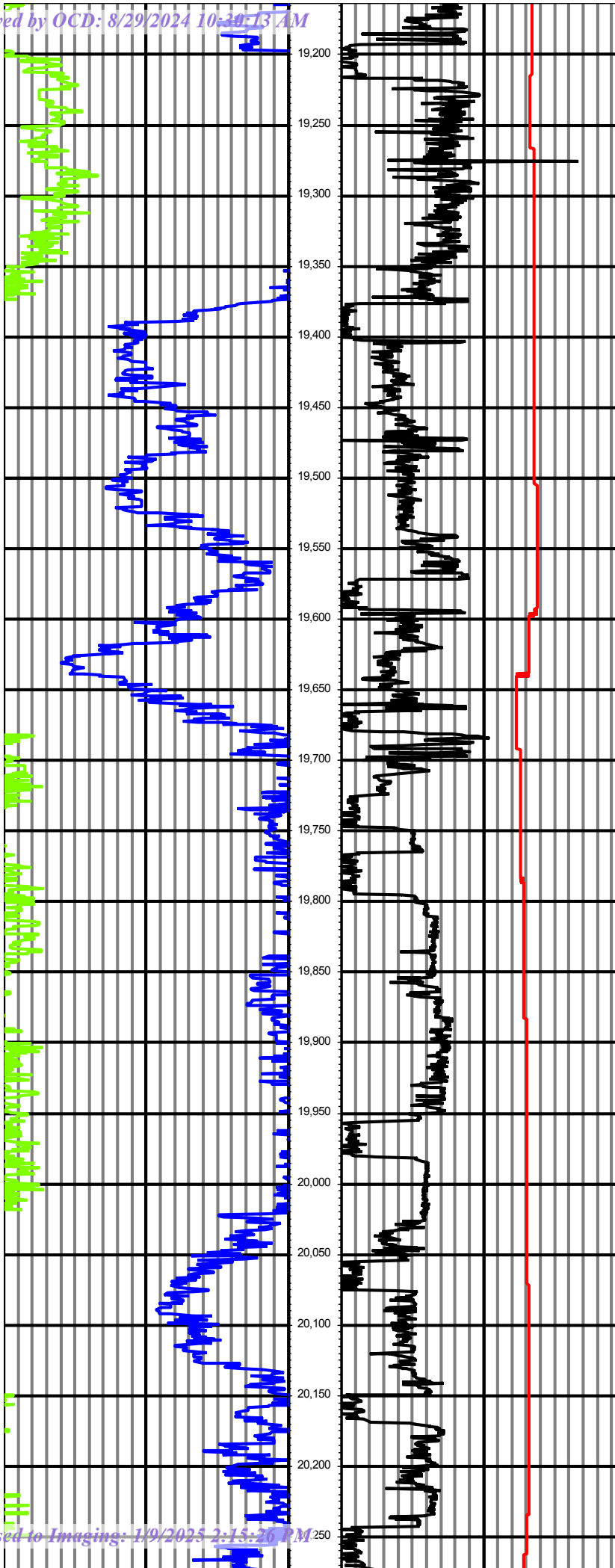
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MD: 18827.00 INC: 91.74 AZ: 356.95 TVD: 11636.50 VS: 6954.13 DLS: 1.58

MD: 18922.00 INC: 93.01 AZ: 355.46 TVD: 11632.56 VS: 7048.89 DLS: 2.06

MD: 19018.00 INC: 91.38 AZ: 355.81 TVD: 11628.88 VS: 7144.60 DLS: 1.74

MD: 19114.00 INC: 91.96 AZ: 358.53 TVD: 11626.09 VS: 7240.48 DLS: 2.90



MD: 19209.00 INC: 91.69 AZ: 0.55 TVD: 11623.06 VS: 7335.42 DLS: 2.14

MD: 19305.00 INC: 91.21 AZ: 359.85 TVD: 11620.63 VS: 7431.38 DLS: 0.88

MD: 19401.00 INC: 89.67 AZ: 0.91 TVD: 11619.89 VS: 7527.36 DLS: 1.95

MD: 19496.00 INC: 90.59 AZ: 1.17 TVD: 11619.68 VS: 7622.33 DLS: 1.01

MD: 19592.00 INC: 87.60 AZ: 1.52 TVD: 11621.19 VS: 7718.25 DLS: 3.14

MD: 19686.00 INC: 87.34 AZ: 0.55 TVD: 11625.34 VS: 7812.12 DLS: 1.07

MD: 19782.00 INC: 90.99 AZ: 359.94 TVD: 11626.74 VS: 7908.08 DLS: 3.85

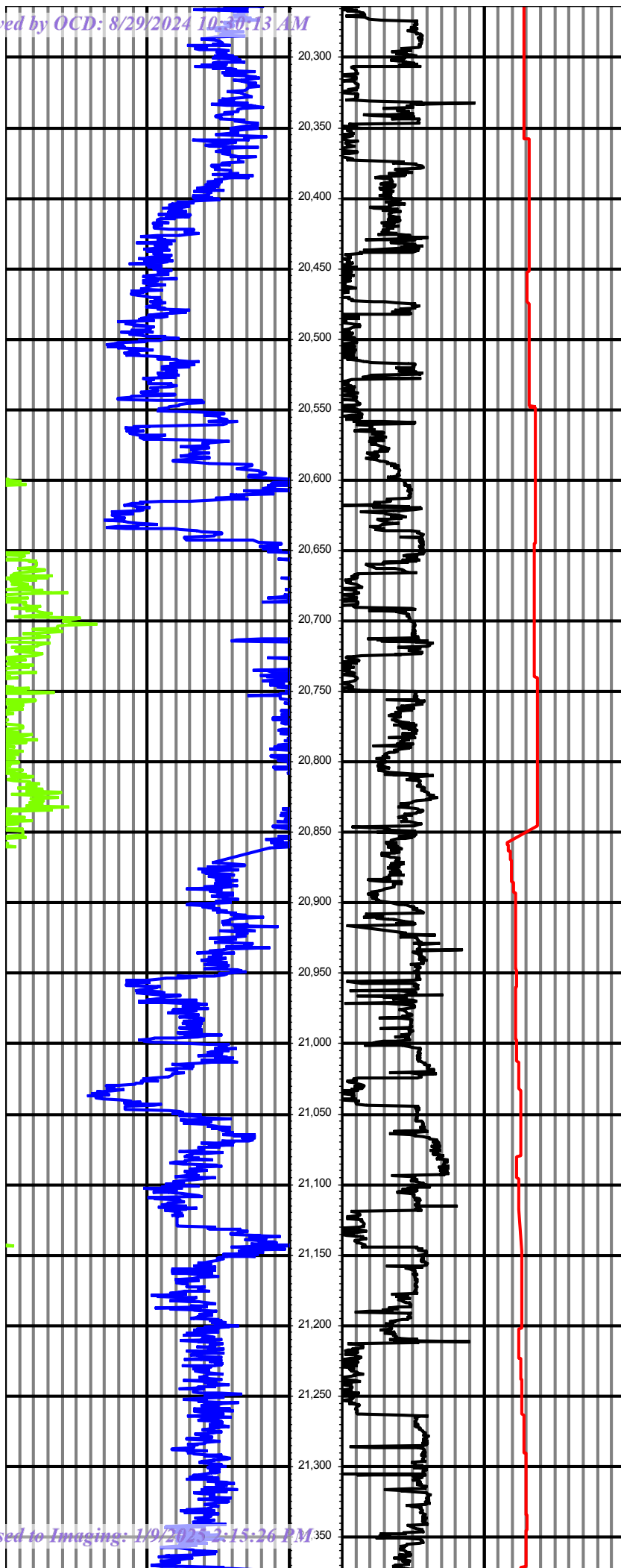
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MD: 19972.00 INC: 90.46 AZ: 358.80 TVD: 11625.21 VS: 8098.07 DLS: 0.27

MD: 20068.00 INC: 90.33 AZ: 359.50 TVD: 11624.55 VS: 8194.06 DLS: 0.74

MD: 20164.00 INC: 89.76 AZ: 359.59 TVD: 11624.47 VS: 8290.06 DLS: 0.60

MD: 20259.00 INC: 88.57 AZ: 357.83 TVD: 11625.86 VS: 8385.04 DLS: 2.24



MD: 20354.00 INC: 89.41 AZ: 357.74 TVD: 11627.53 VS: 8479.99 DLS: 0.89

MD: 20450.00 INC: 89.10 AZ: 357.92 TVD: 11628.78 VS: 8575.94 DLS: 0.37

MD: 20546.00 INC: 94.86 AZ: 0.55 TVD: 11625.46 VS: 8671.83 DLS: 6.59

MD: 20641.00 INC: 96.57 AZ: 0.82 TVD: 11616.00 VS: 8766.33 DLS: 1.82

MD: 20736.00 INC: 93.76 AZ: 1.43 TVD: 11607.45 VS: 8860.90 DLS: 3.03

MD: 20832.00 INC: 92.92 AZ: 0.38 TVD: 11601.86 VS: 8956.70 DLS: 1.40

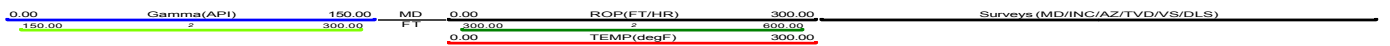
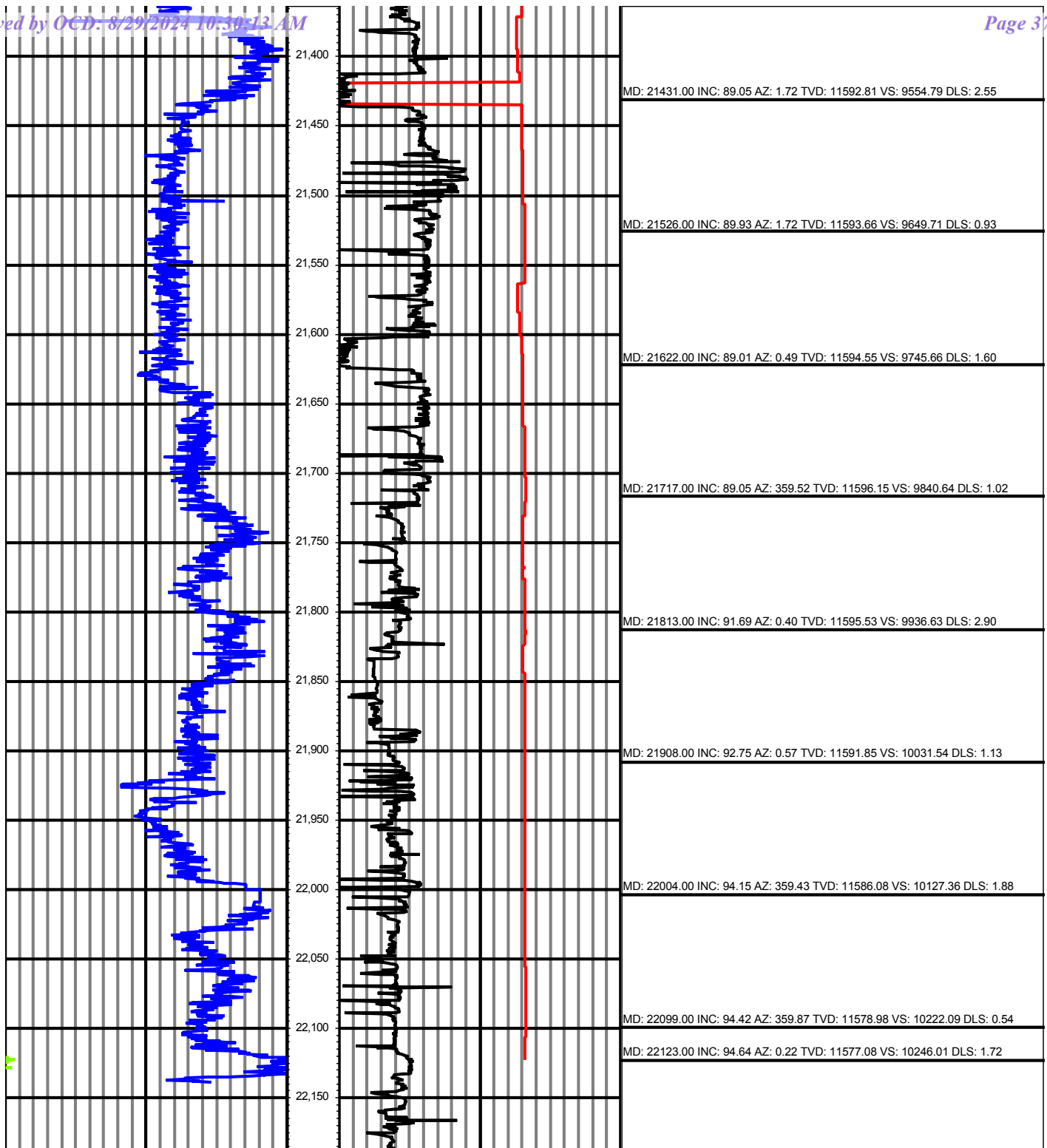
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MD: 21048.00 INC: 91.82 AZ: 1.19 TVD: 11593.01 VS: 9172.48 DLS: 1.21

MD: 21144.00 INC: 92.00 AZ: 1.72 TVD: 11589.81 VS: 9268.37 DLS: 0.58

MD: 21240.00 INC: 90.24 AZ: 2.86 TVD: 11587.93 VS: 9364.23 DLS: 2.18

MD: 21335.00 INC: 87.43 AZ: 3.56 TVD: 11589.86 VS: 9458.99 DLS: 3.05





American Resource Development LLC.

Ameredev Operating

Lea County, NM (N83-NME)

Nandina_GoldenBell

Nandina 25 36 31 Fed Com 107H

N107H

Plan: FINAL AD

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 107H
Project:	Lea County, NM (N83-NME)	TVD Reference:	GL 3,009' + 27' KB @ 3036.0usft (Nabors X49)
Site:	Nandina_GoldenBell	MD Reference:	GL 3,009' + 27' KB @ 3036.0usft (Nabors X49)
Well:	Nandina Fed Com 25-36-31 107H	North Reference:	Grid
Wellbore:	N107H	Survey Calculation Method:	Minimum Curvature
Design:	FINAL AD	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
From:	Map	Easting:	859,493.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32.0802090
		Longitude:	-103.3061147
		Grid Convergence:	0.55 °

Well	Nandina Fed Com 25-36-31 107H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32.0801279
		Longitude:	-103.2988712
		Ground Level:	3,009.0 usft

Wellbore	N107H		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2020	10/1/2021	6.37
			Dip Angle
			(°)
			59.80
			Field Strength
			(nT)
			47,407.90800933

Design	FINAL AD		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			359.44

Survey Tool Program	Date	11/8/2022		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
0.0	22,188.0	FINAL AD (N107H)	MWD	OWSG MWD - Standard

Planned Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Map	Map	Latitude	Longitude
Depth	(°)	(°)	Depth	(usft)	(usft)	Northing	Easting		
(usft)			(usft)			(usft)	(usft)		
0.0	0.00	0.00	0.0	0.0	0.0	394,423.94	861,736.87	32.0801279	-103.2988712
127.0	0.79	28.88	127.0	0.8	0.4	394,424.71	861,737.30	32.0801300	-103.2988698
221.0	0.79	83.02	221.0	1.4	1.4	394,425.35	861,738.25	32.0801318	-103.2988667
311.0	0.62	59.11	311.0	1.7	2.4	394,425.68	861,739.29	32.0801326	-103.2988634
402.0	0.22	344.67	402.0	2.2	2.8	394,426.10	861,739.66	32.0801338	-103.2988621
493.0	0.44	303.01	493.0	2.5	2.4	394,426.46	861,739.32	32.0801348	-103.2988632
583.0	0.62	283.76	583.0	2.8	1.7	394,426.76	861,738.56	32.0801356	-103.2988657
674.0	0.92	281.39	674.0	3.1	0.5	394,427.02	861,737.37	32.0801364	-103.2988695
760.0	0.92	282.18	760.0	3.4	-0.9	394,427.31	861,736.01	32.0801372	-103.2988739
854.0	1.05	266.00	853.9	3.5	-2.5	394,427.40	861,734.42	32.0801375	-103.2988790
948.0	1.36	258.45	947.9	3.2	-4.4	394,427.12	861,732.47	32.0801368	-103.2988853
1,042.0	1.19	254.93	1,041.9	2.7	-6.4	394,426.64	861,730.43	32.0801355	-103.2988919



American Resource Development LLC.

Survey Report - Geographic

Company:	Ameredev Operating	Local Co-ordinate Reference:	Well Nandina Fed Com 25-36-31 107H
Project:	Lea County, NM (N83-NME)	TVD Reference:	GL 3,009' + 27' KB @ 3036.0usft (Nabors X49)
Site:	Nandina_GoldenBell	MD Reference:	GL 3,009' + 27' KB @ 3036.0usft (Nabors X49)
Well:	Nandina Fed Com 25-36-31 107H	North Reference:	Grid
Wellbore:	N107H	Survey Calculation Method:	Minimum Curvature
Design:	FINAL AD	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
1,107.0	0.88	258.62	1,106.9	2.4	-7.6	394,426.37	861,729.29	32.0801348	-103.2988956
1,209.0	0.88	255.63	1,208.9	2.1	-9.1	394,426.02	861,727.76	32.0801339	-103.2989005
1,300.0	0.92	253.44	1,299.9	1.7	-10.5	394,425.64	861,726.39	32.0801329	-103.2989050
1,394.0	0.84	258.71	1,393.9	1.3	-11.9	394,425.29	861,724.99	32.0801319	-103.2989095
1,488.0	0.62	265.48	1,487.8	1.2	-13.1	394,425.11	861,723.80	32.0801315	-103.2989133
1,582.0	0.40	257.30	1,581.8	1.1	-13.9	394,425.00	861,722.98	32.0801312	-103.2989160
1,676.0	0.13	250.01	1,675.8	1.0	-14.3	394,424.89	861,722.56	32.0801309	-103.2989174
1,770.0	0.09	38.89	1,769.8	1.0	-14.4	394,424.91	861,722.50	32.0801310	-103.2989176
1,864.0	0.18	28.79	1,863.8	1.2	-14.3	394,425.10	861,722.62	32.0801315	-103.2989172
1,957.0	0.75	97.78	1,956.8	1.2	-13.6	394,425.15	861,723.29	32.0801316	-103.2989150
2,052.0	1.67	96.46	2,051.8	1.0	-11.6	394,424.91	861,725.28	32.0801309	-103.2989086
2,146.0	2.11	117.82	2,145.8	0.0	-8.7	394,423.95	861,728.18	32.0801282	-103.2988993
2,241.0	2.99	129.77	2,240.7	-2.4	-5.2	394,421.54	861,731.63	32.0801215	-103.2988882
2,334.0	3.47	135.66	2,333.5	-6.0	-1.4	394,417.98	861,735.46	32.0801116	-103.2988759
2,428.0	4.57	144.89	2,427.3	-11.1	2.7	394,412.88	861,739.60	32.0800975	-103.2988627
2,522.0	4.62	144.01	2,521.0	-17.2	7.1	394,406.75	861,743.98	32.0800805	-103.2988488
2,616.0	5.36	146.91	2,614.6	-23.9	11.7	394,400.01	861,748.60	32.0800619	-103.2988341
2,710.0	5.10	142.87	2,708.2	-30.9	16.6	394,393.00	861,753.52	32.0800425	-103.2988184
2,804.0	5.01	141.11	2,801.9	-37.5	21.7	394,386.48	861,758.62	32.0800244	-103.2988022
2,898.0	5.67	150.16	2,895.5	-44.7	26.6	394,379.26	861,763.51	32.0800044	-103.2987866
2,992.0	5.71	156.93	2,989.0	-53.0	30.8	394,370.92	861,767.65	32.0799814	-103.2987735
3,086.0	6.02	161.94	3,082.5	-62.0	34.1	394,361.94	861,771.01	32.0799566	-103.2987629
3,180.0	5.36	159.83	3,176.1	-70.8	37.2	394,353.13	861,774.05	32.0799323	-103.2987534
3,274.0	4.70	159.66	3,269.7	-78.5	40.0	394,345.40	861,776.90	32.0799110	-103.2987444
3,368.0	4.35	160.62	3,363.4	-85.5	42.6	394,338.42	861,779.43	32.0798918	-103.2987365
3,461.0	4.22	165.19	3,456.1	-92.2	44.6	394,331.79	861,781.47	32.0798735	-103.2987301
3,555.0	4.48	174.42	3,549.9	-99.1	45.8	394,324.79	861,782.71	32.0798542	-103.2987263
3,648.0	4.53	173.72	3,642.6	-106.4	46.6	394,317.52	861,783.47	32.0798342	-103.2987241
3,743.0	4.44	174.16	3,737.3	-113.8	47.4	394,310.14	861,784.25	32.0798139	-103.2987218
3,837.0	4.09	171.43	3,831.0	-120.7	48.2	394,303.20	861,785.12	32.0797948	-103.2987192
3,930.0	4.66	169.50	3,923.8	-127.7	49.4	394,296.21	861,786.30	32.0797756	-103.2987156
4,024.0	5.49	168.97	4,017.4	-135.9	51.0	394,288.04	861,787.86	32.0797531	-103.2987108
4,118.0	5.14	167.04	4,111.0	-144.4	52.8	394,279.52	861,789.66	32.0797296	-103.2987052
4,211.0	4.70	167.57	4,203.6	-152.2	54.5	394,271.74	861,791.42	32.0797082	-103.2986998
4,305.0	4.92	167.83	4,297.3	-159.9	56.2	394,264.04	861,793.10	32.0796870	-103.2986946
4,398.0	5.49	168.80	4,389.9	-168.2	57.9	394,255.78	861,794.80	32.0796642	-103.2986894
4,492.0	5.27	170.38	4,483.5	-176.8	59.5	394,247.11	861,796.40	32.0796403	-103.2986845
4,585.0	5.10	168.62	4,576.1	-185.1	61.1	394,238.85	861,797.93	32.0796176	-103.2986798
4,679.0	5.01	167.04	4,669.8	-193.2	62.8	394,230.75	861,799.67	32.0795953	-103.2986744
4,701.0	4.95	167.28	4,691.7	-195.0	63.2	394,228.89	861,800.10	32.0795902	-103.2986731
NMNMA119762 Exit at 4701.0 MD									
4,773.0	4.75	168.09	4,763.4	-201.0	64.5	394,222.94	861,801.40	32.0795738	-103.2986691
4,867.0	4.40	166.86	4,857.1	-208.3	66.1	394,215.62	861,803.02	32.0795536	-103.2986641
4,961.0	4.57	165.46	4,950.8	-215.5	67.9	394,208.49	861,804.78	32.0795340	-103.2986587
5,054.0	4.79	163.88	5,043.5	-222.8	69.9	394,201.17	861,806.79	32.0795138	-103.2986524
5,128.0	4.70	162.29	5,117.3	-228.6	71.7	394,195.32	861,808.57	32.0794977	-103.2986468
5,243.0	4.70	159.48	5,231.9	-237.5	74.8	394,186.42	861,811.65	32.0794731	-103.2986371
5,337.0	5.01	164.84	5,325.5	-245.1	77.2	394,178.85	861,814.07	32.0794522	-103.2986296
5,431.0	6.73	174.69	5,419.1	-254.5	78.8	394,169.40	861,815.66	32.0794262	-103.2986247
5,525.0	6.59	174.51	5,512.4	-265.4	79.8	394,158.55	861,816.68	32.0793964	-103.2986218
5,618.0	6.59	172.14	5,604.8	-276.0	81.1	394,147.95	861,817.92	32.0793672	-103.2986181
5,712.0	6.24	170.73	5,698.2	-286.4	82.6	394,137.56	861,819.48	32.0793386	-103.2986134
5,806.0	6.02	170.47	5,791.7	-296.3	84.3	394,127.66	861,821.12	32.0793114	-103.2986084
5,900.0	5.98	170.91	5,885.2	-306.0	85.8	394,117.96	861,822.71	32.0792847	-103.2986036
5,993.0	5.80	169.24	5,977.7	-315.4	87.5	394,108.56	861,824.36	32.0792588	-103.2985985



American Resource Development LLC.

Survey Report - Geographic

Company:	Ameredev Operating	Local Co-ordinate Reference:	Well Nandina Fed Com 25-36-31 107H
Project:	Lea County, NM (N83-NME)	TVD Reference:	GL 3,009' + 27' KB @ 3036.0usft (Nabors X49)
Site:	Nandina_GoldenBell	MD Reference:	GL 3,009' + 27' KB @ 3036.0usft (Nabors X49)
Well:	Nandina Fed Com 25-36-31 107H	North Reference:	Grid
Wellbore:	N107H	Survey Calculation Method:	Minimum Curvature
Design:	FINAL AD	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
6,087.0	5.67	168.80	6,071.2	-324.6	89.3	394,099.34	861,826.14	32.0792334	-103.2985931
6,181.0	5.58	166.95	6,164.8	-333.6	91.2	394,090.33	861,828.08	32.0792086	-103.2985871
6,275.0	5.63	164.23	6,258.3	-342.5	93.5	394,081.45	861,830.36	32.0791841	-103.2985800
6,369.0	5.54	162.91	6,351.9	-351.3	96.1	394,072.67	861,832.95	32.0791599	-103.2985719
6,463.0	5.41	161.59	6,445.4	-359.8	98.8	394,064.13	861,835.68	32.0791364	-103.2985634
6,557.0	4.35	164.14	6,539.1	-367.4	101.2	394,056.50	861,838.06	32.0791153	-103.2985559
6,650.0	3.60	170.82	6,631.9	-373.7	102.6	394,050.22	861,839.49	32.0790980	-103.2985515
6,744.0	3.56	167.48	6,725.7	-379.5	103.7	394,044.46	861,840.59	32.0790822	-103.2985481
6,838.0	2.15	169.94	6,819.6	-384.1	104.7	394,039.87	861,841.53	32.0790696	-103.2985452
6,931.0	1.49	176.36	6,912.5	-387.0	105.0	394,036.95	861,841.91	32.0790615	-103.2985441
7,025.0	1.71	173.19	7,006.5	-389.6	105.3	394,034.34	861,842.16	32.0790543	-103.2985434
7,119.0	1.49	170.47	7,100.4	-392.2	105.7	394,031.74	861,842.52	32.0790472	-103.2985423
7,213.0	1.58	156.93	7,194.4	-394.6	106.4	394,029.34	861,843.24	32.0790406	-103.2985401
7,306.0	1.49	148.93	7,287.4	-396.8	107.5	394,027.13	861,844.36	32.0790344	-103.2985365
7,400.0	1.67	139.71	7,381.3	-398.9	109.0	394,025.03	861,845.88	32.0790287	-103.2985317
7,494.0	1.80	130.92	7,475.3	-400.9	111.0	394,023.02	861,847.88	32.0790231	-103.2985253
7,588.0	1.89	131.36	7,569.2	-402.9	113.3	394,021.03	861,850.16	32.0790175	-103.2985180
7,682.0	1.80	127.84	7,663.2	-404.8	115.6	394,019.10	861,852.49	32.0790122	-103.2985105
7,777.0	1.85	130.92	7,758.1	-406.8	118.0	394,017.18	861,854.82	32.0790068	-103.2985030
7,871.0	1.93	128.28	7,852.1	-408.7	120.3	394,015.21	861,857.21	32.0790013	-103.2984954
7,964.0	1.19	123.71	7,945.1	-410.2	122.4	394,013.70	861,859.25	32.0789971	-103.2984889
8,058.0	0.44	131.71	8,039.0	-411.0	123.5	394,012.92	861,860.33	32.0789950	-103.2984854
8,152.0	0.40	153.59	8,133.0	-411.6	123.9	394,012.38	861,860.74	32.0789935	-103.2984841
8,246.0	0.57	138.65	8,227.0	-412.2	124.3	394,011.74	861,861.20	32.0789917	-103.2984826
8,340.0	0.79	129.86	8,321.0	-413.0	125.1	394,010.97	861,862.00	32.0789896	-103.2984800
8,435.0	0.92	125.12	8,416.0	-413.8	126.3	394,010.12	861,863.13	32.0789872	-103.2984764
8,529.0	0.57	59.64	8,510.0	-414.0	127.3	394,009.92	861,864.15	32.0789866	-103.2984731
8,623.0	1.58	344.23	8,604.0	-412.5	127.3	394,011.40	861,864.20	32.0789907	-103.2984729
8,716.0	1.49	339.22	8,697.0	-410.2	126.6	394,013.77	861,863.43	32.0789972	-103.2984754
8,810.0	1.19	339.13	8,790.9	-408.1	125.8	394,015.82	861,862.64	32.0790029	-103.2984778
8,904.0	1.01	339.92	8,884.9	-406.4	125.1	394,017.51	861,862.01	32.0790075	-103.2984798
8,997.0	1.01	346.16	8,977.9	-404.9	124.7	394,019.08	861,861.53	32.0790119	-103.2984813
9,091.0	0.92	333.86	9,071.9	-403.4	124.1	394,020.56	861,861.00	32.0790159	-103.2984830
9,185.0	0.92	325.59	9,165.9	-402.1	123.4	394,021.86	861,860.24	32.0790195	-103.2984854
9,279.0	1.01	346.34	9,259.9	-400.7	122.7	394,023.29	861,859.62	32.0790235	-103.2984873
9,373.0	1.19	1.01	9,353.9	-398.9	122.6	394,025.07	861,859.44	32.0790284	-103.2984879
9,467.0	1.67	345.28	9,447.8	-396.6	122.2	394,027.37	861,859.11	32.0790347	-103.2984889
9,561.0	1.98	343.26	9,541.8	-393.7	121.4	394,030.25	861,858.30	32.0790427	-103.2984914
9,654.0	1.54	22.46	9,634.7	-391.0	121.4	394,032.94	861,858.31	32.0790501	-103.2984913
9,748.0	1.23	16.48	9,728.7	-388.9	122.2	394,035.07	861,859.08	32.0790559	-103.2984887
9,841.0	1.49	44.17	9,821.7	-387.0	123.3	394,036.90	861,860.21	32.0790609	-103.2984850
9,934.0	2.11	58.85	9,914.6	-385.3	125.6	394,038.65	861,862.51	32.0790656	-103.2984775
10,028.0	1.05	75.55	10,008.6	-384.2	128.0	394,039.76	861,864.83	32.0790686	-103.2984700
10,122.0	0.75	117.29	10,102.6	-384.2	129.3	394,039.70	861,866.21	32.0790684	-103.2984656
10,215.0	1.27	103.32	10,195.6	-384.8	130.9	394,039.18	861,867.75	32.0790670	-103.2984606
10,309.0	1.98	101.74	10,289.5	-385.3	133.5	394,038.61	861,870.36	32.0790653	-103.2984522
10,403.0	0.44	109.73	10,383.5	-385.8	135.4	394,038.16	861,872.29	32.0790640	-103.2984460
10,497.0	1.89	278.40	10,477.5	-385.7	134.2	394,038.26	861,871.09	32.0790643	-103.2984498
10,590.0	2.11	294.13	10,570.4	-384.8	131.1	394,039.18	861,868.01	32.0790670	-103.2984598
10,684.0	2.15	305.55	10,664.4	-383.0	128.1	394,040.92	861,865.00	32.0790718	-103.2984694
10,778.0	1.76	319.53	10,758.3	-380.9	125.8	394,043.04	861,862.63	32.0790777	-103.2984770
10,870.0	1.98	319.35	10,850.3	-378.6	123.8	394,045.32	861,860.68	32.0790840	-103.2984833
10,963.0	1.71	315.31	10,943.2	-376.4	121.8	394,047.53	861,858.65	32.0790901	-103.2984897
11,035.0	1.41	315.84	11,015.2	-375.0	120.4	394,048.93	861,857.28	32.0790940	-103.2984941
11,126.0	1.36	319.60	11,106.2	-373.4	118.9	394,050.55	861,855.80	32.0790985	-103.2984988



American Resource Development LLC.

Survey Report - Geographic

Company:	Ameredev Operating	Local Co-ordinate Reference:	Well Nandina Fed Com 25-36-31 107H
Project:	Lea County, NM (N83-NME)	TVD Reference:	GL 3,009' + 27' KB @ 3036.0usft (Nabors X49)
Site:	Nandina_GoldenBell	MD Reference:	GL 3,009' + 27' KB @ 3036.0usft (Nabors X49)
Well:	Nandina Fed Com 25-36-31 107H	North Reference:	Grid
Wellbore:	N107H	Survey Calculation Method:	Minimum Curvature
Design:	FINAL AD	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
11,178.0	1.49	314.41	11,158.2	-372.4	118.0	394,051.49	861,854.92	32.0791011	-103.2985017
11,210.0	2.64	308.00	11,190.1	-371.7	117.2	394,052.24	861,854.04	32.0791032	-103.2985045
11,274.0	7.76	328.30	11,253.9	-367.1	113.7	394,056.83	861,850.61	32.0791159	-103.2985154
KOP @ 11274									
11,337.0	16.62	347.63	11,315.4	-354.7	109.6	394,069.27	861,846.43	32.0791502	-103.2985285
11,369.0	21.63	351.24	11,345.6	-344.4	107.7	394,079.58	861,844.55	32.0791786	-103.2985342
11,416.0	29.19	357.48	11,388.1	-324.3	105.9	394,099.62	861,842.73	32.0792338	-103.2985395
11,464.0	32.00	356.69	11,429.4	-299.9	104.6	394,124.02	861,841.48	32.0793008	-103.2985428
11,528.0	33.10	353.79	11,483.3	-265.6	101.7	394,158.33	861,838.61	32.0793952	-103.2985510
11,559.0	36.09	350.45	11,508.8	-248.2	99.3	394,175.75	861,836.18	32.0794432	-103.2985583
11,642.0	46.69	350.29	11,571.0	-194.2	90.1	394,229.76	861,827.00	32.0795918	-103.2985862
NMNMA119762 Entry at 11642.0 MD									
11,655.0	48.35	350.27	11,579.8	-184.7	88.5	394,239.23	861,825.38	32.0796179	-103.2985912
11,750.0	62.77	352.91	11,633.4	-107.4	77.2	394,316.54	861,814.11	32.0798307	-103.2986252
11,760.0	64.50	352.87	11,637.8	-98.5	76.1	394,325.43	861,813.00	32.0798552	-103.2986285
Nandina 107H Unit Hardlines Entry at 11760.0 MD									
11,762.6	64.96	352.86	11,639.0	-96.1	75.8	394,327.80	861,812.70	32.0798617	-103.2986294
01-FTP-940FEL(N-107H) BP#2									
11,846.0	79.38	352.56	11,664.4	-17.6	65.8	394,406.30	861,802.65	32.0800777	-103.2986594
11,876.0	81.50	352.89	11,669.4	11.7	62.0	394,435.63	861,798.91	32.0801584	-103.2986706
02-T02-0VS(N-107H) BP#2									
11,941.0	86.11	353.61	11,676.4	75.9	54.4	394,499.80	861,791.32	32.0803350	-103.2986931
12,036.0	87.69	353.26	11,681.5	170.1	43.6	394,594.04	861,780.47	32.0805943	-103.2987252
12,132.0	88.44	355.46	11,684.8	265.6	34.2	394,689.51	861,771.04	32.0808570	-103.2987527
12,227.0	89.36	358.01	11,686.6	360.4	28.8	394,784.33	861,765.64	32.0811177	-103.2987672
EOC @ 12227									
12,322.0	88.97	359.59	11,688.0	455.4	26.8	394,879.30	861,763.65	32.0813788	-103.2987707
12,418.0	89.05	359.68	11,689.7	551.3	26.2	394,975.28	861,763.04	32.0816426	-103.2987697
12,513.0	89.10	0.99	11,691.2	646.3	26.7	395,070.27	861,763.59	32.0819037	-103.2987649
12,608.0	89.49	1.17	11,692.4	741.3	28.5	395,165.24	861,765.38	32.0821647	-103.2987562
12,703.0	88.04	1.08	11,694.4	836.3	30.4	395,260.20	861,767.25	32.0824256	-103.2987473
12,798.0	87.78	1.26	11,697.9	931.2	32.3	395,355.12	861,769.18	32.0826864	-103.2987381
12,867.8	88.68	1.26	11,700.0	1,000.9	33.8	395,424.86	861,770.72	32.0828781	-103.2987309
03-T03-1000VS(N-107H) BP#2									
12,893.0	89.01	1.26	11,700.5	1,026.1	34.4	395,450.05	861,771.27	32.0829473	-103.2987284
12,989.0	88.31	0.12	11,702.8	1,122.1	35.6	395,546.02	861,772.43	32.0832110	-103.2987217
13,084.0	88.22	0.03	11,705.6	1,217.0	35.7	395,640.97	861,772.55	32.0834720	-103.2987183
13,179.0	90.59	359.76	11,706.6	1,312.0	35.5	395,735.96	861,772.38	32.0837331	-103.2987159
13,274.0	89.63	359.85	11,706.5	1,407.0	35.2	395,830.96	861,772.06	32.0839942	-103.2987141
13,369.0	90.20	358.97	11,706.6	1,502.0	34.2	395,925.95	861,771.08	32.0842553	-103.2987143
13,464.0	88.40	0.64	11,707.8	1,597.0	33.9	396,020.94	861,770.75	32.0845164	-103.2987124
13,558.0	85.85	1.08	11,712.5	1,690.9	35.3	396,114.80	861,772.16	32.0847744	-103.2987049
13,654.0	88.53	359.94	11,717.2	1,786.7	36.1	396,210.67	861,773.01	32.0850378	-103.2986992
13,748.0	92.84	1.96	11,716.1	1,880.7	37.7	396,304.63	861,774.57	32.0852960	-103.2986913
13,844.0	92.53	1.70	11,711.6	1,976.5	40.8	396,400.47	861,777.63	32.0855594	-103.2986784
13,867.4	91.72	1.42	11,710.7	2,000.0	41.4	396,423.89	861,778.27	32.0856237	-103.2986756
04-T04-2000VS(N-107H) BP#2									
13,939.0	89.23	0.55	11,710.1	2,071.5	42.6	396,495.43	861,779.50	32.0858203	-103.2986694
14,034.0	89.19	1.52	11,711.4	2,166.5	44.3	396,590.40	861,781.21	32.0860813	-103.2986610
14,129.0	89.01	359.41	11,712.9	2,261.4	45.1	396,685.38	861,781.98	32.0863424	-103.2986555
14,224.0	88.48	358.71	11,715.0	2,356.4	43.6	396,780.34	861,780.43	32.0866034	-103.2986576
14,315.0	90.04	358.87	11,716.2	2,447.3	41.6	396,871.29	861,778.51	32.0868534	-103.2986610
NMNMA137469 Entry at 14315.0 MD									



American Resource Development LLC.

Survey Report - Geographic

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Project:	Lea County, NM (N83-NME)	TVD Reference:	GL 3,009' + 27' KB @ 3036.0usft (Nabors X49)
Site:	Nandina_GoldenBell	MD Reference:	GL 3,009' + 27' KB @ 3036.0usft (Nabors X49)
Well:	Nandina Fed Com 25-36-31 107H	North Reference:	Grid
Wellbore:	N107H	Survey Calculation Method:	Minimum Curvature
Design:	FINAL AD	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
14,316.0	90.06	358.87	11,716.2	2,448.3	41.6	396,872.29	861,778.49	32.0868562	-103.2986610
NMNMA119762 Exit at 14316.0 MD									
14,319.0	90.11	358.88	11,716.1	2,451.4	41.6	396,875.31	861,778.43	32.0868645	-103.2986611
14,414.0	91.52	359.50	11,714.8	2,546.4	40.2	396,970.29	861,777.09	32.0871256	-103.2986625
14,535.0	90.77	355.19	11,712.4	2,667.2	34.6	397,091.11	861,771.48	32.0874578	-103.2986769
14,631.0	89.98	357.21	11,711.7	2,762.9	28.2	397,186.89	861,765.12	32.0877212	-103.2986944
14,726.0	89.89	357.57	11,711.9	2,857.9	23.9	397,281.79	861,760.80	32.0879821	-103.2987055
14,822.0	89.23	357.13	11,712.6	2,953.7	19.5	397,377.68	861,756.36	32.0882458	-103.2987168
14,868.7	89.14	357.52	11,713.3	3,000.4	17.3	397,424.31	861,754.18	32.0883741	-103.2987224
05-T05-3000VS(N-107H) BP#2									
14,917.0	89.05	357.92	11,714.0	3,048.6	15.4	397,472.58	861,752.26	32.0885068	-103.2987271
15,013.0	88.40	357.57	11,716.2	3,144.5	11.6	397,568.49	861,748.48	32.0887705	-103.2987364
15,108.0	89.14	357.83	11,718.2	3,239.4	7.8	397,663.39	861,744.67	32.0890314	-103.2987457
15,203.0	89.01	357.92	11,719.7	3,334.4	4.3	397,758.31	861,741.15	32.0892924	-103.2987542
15,298.0	89.71	359.06	11,720.8	3,429.3	1.8	397,853.27	861,738.64	32.0895534	-103.2987593
15,394.0	89.85	359.41	11,721.2	3,525.3	0.5	397,949.26	861,737.36	32.0898173	-103.2987605
15,489.0	88.66	358.36	11,722.4	3,620.3	-1.4	398,044.23	861,735.51	32.0900784	-103.2987635
15,585.0	88.57	0.64	11,724.7	3,716.3	-2.2	398,140.19	861,734.67	32.0903422	-103.2987632
15,681.0	90.86	1.87	11,725.2	3,812.2	-0.1	398,236.16	861,736.78	32.0906059	-103.2987535
15,777.0	89.41	0.99	11,725.0	3,908.2	2.3	398,332.12	861,739.17	32.0908696	-103.2987427
15,869.0	88.86	359.72	11,726.4	4,000.2	2.9	398,424.13	861,739.74	32.0911224	-103.2987381
06-T06-4000VS(N-107H) BP#2									
15,872.0	88.84	359.68	11,726.4	4,003.2	2.9	398,427.11	861,739.73	32.0911306	-103.2987380
15,968.0	90.99	0.64	11,726.6	4,099.2	3.1	398,523.10	861,740.00	32.0913945	-103.2987342
16,063.0	92.22	359.50	11,723.9	4,194.1	3.2	398,618.06	861,740.11	32.0916555	-103.2987309
16,159.0	92.35	359.32	11,720.1	4,290.0	2.3	398,713.98	861,739.12	32.0919191	-103.2987311
16,254.0	92.53	358.62	11,716.0	4,384.9	0.5	398,808.88	861,737.42	32.0921800	-103.2987336
16,349.0	91.87	359.94	11,712.4	4,479.9	-0.6	398,903.80	861,736.23	32.0924409	-103.2987346
16,445.0	89.67	358.97	11,711.1	4,575.8	-1.6	398,999.78	861,735.31	32.0927047	-103.2987345
16,541.0	89.41	359.24	11,711.9	4,671.8	-3.1	399,095.76	861,733.81	32.0929686	-103.2987364
16,636.0	90.15	359.76	11,712.2	4,766.8	-3.9	399,190.76	861,732.98	32.0932297	-103.2987361
16,732.0	90.46	359.41	11,711.7	4,862.8	-4.6	399,286.75	861,732.29	32.0934936	-103.2987354
16,828.0	90.73	358.62	11,710.7	4,958.8	-6.2	399,382.73	861,730.64	32.0937574	-103.2987378
16,869.7	91.67	358.47	11,709.8	5,000.5	-7.3	399,424.40	861,729.58	32.0938720	-103.2987399
07-T07-5000VS(N-107H) BP#2									
16,923.0	92.88	358.27	11,707.7	5,053.7	-8.8	399,477.65	861,728.06	32.0940184	-103.2987431
17,018.0	94.77	357.92	11,701.4	5,148.4	-12.0	399,572.38	861,724.91	32.0942788	-103.2987504
17,114.0	96.00	359.50	11,692.4	5,244.0	-14.1	399,667.92	861,722.76	32.0945415	-103.2987544
17,209.0	95.52	1.52	11,682.8	5,338.5	-13.3	399,762.44	861,723.60	32.0948012	-103.2987487
17,305.0	94.90	1.08	11,674.1	5,434.1	-11.1	399,858.01	861,725.77	32.0950639	-103.2987387
17,400.0	92.22	0.55	11,668.2	5,528.9	-9.8	399,952.81	861,727.12	32.0953244	-103.2987315
17,495.0	93.36	0.99	11,663.6	5,623.7	-8.5	400,047.69	861,728.39	32.0955851	-103.2987244
17,590.0	90.02	1.17	11,660.8	5,718.7	-6.7	400,142.62	861,730.18	32.0958460	-103.2987157
17,686.0	90.77	1.26	11,660.1	5,814.7	-4.7	400,238.59	861,732.22	32.0961097	-103.2987061
17,781.0	92.84	1.08	11,657.1	5,909.6	-2.7	400,333.52	861,734.16	32.0963706	-103.2986969
17,871.1	91.92	0.58	11,653.4	5,999.6	-1.4	400,423.56	861,735.46	32.0966180	-103.2986899
08-T08-6000VS(N-107H) BP#2									
17,876.0	91.87	0.55	11,653.2	6,004.5	-1.4	400,428.43	861,735.51	32.0966314	-103.2986896
17,971.0	92.13	0.38	11,649.9	6,099.4	-0.6	400,523.37	861,736.28	32.0968923	-103.2986842
18,066.0	93.58	1.17	11,645.2	6,194.3	0.7	400,618.24	861,737.56	32.0971530	-103.2986771
18,161.0	93.45	0.91	11,639.4	6,289.1	2.4	400,713.04	861,739.28	32.0974136	-103.2986686
18,256.0	88.57	359.24	11,637.7	6,384.1	2.5	400,808.00	861,739.40	32.0976745	-103.2986653
18,282.0	88.41	359.12	11,638.4	6,410.0	2.2	400,833.95	861,739.03	32.0977459	-103.2986657
NMNMA137469 Exit at 18282.0 MD									



American Resource Development LLC.

Survey Report - Geographic

Company:	Ameredev Operating	Local Co-ordinate Reference:	Well Nandina Fed Com 25-36-31 107H
Project:	Lea County, NM (N83-NME)	TVD Reference:	GL 3,009' + 27' KB @ 3036.0usft (Nabors X49)
Site:	Nandina_GoldenBell	MD Reference:	GL 3,009' + 27' KB @ 3036.0usft (Nabors X49)
Well:	Nandina Fed Com 25-36-31 107H	North Reference:	Grid
Wellbore:	N107H	Survey Calculation Method:	Minimum Curvature
Design:	FINAL AD	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
18,352.0	87.96	358.80	11,640.6	6,480.0	0.9	400,903.94	861,737.76	32.0979383	-103.2986676
18,447.0	89.01	358.09	11,643.1	6,574.9	-1.7	400,998.87	861,735.19	32.0981993	-103.2986730
18,543.0	91.34	356.95	11,642.8	6,670.8	-5.8	401,094.77	861,731.03	32.0984630	-103.2986834
18,637.0	91.52	356.86	11,640.5	6,764.7	-10.9	401,188.60	861,725.96	32.0987210	-103.2986969
18,732.0	90.77	355.81	11,638.6	6,859.4	-17.0	401,283.39	861,719.89	32.0989817	-103.2987136
18,827.0	91.74	356.95	11,636.5	6,954.2	-23.0	401,378.17	861,713.89	32.0992423	-103.2987300
18,872.6	92.35	356.23	11,634.9	6,999.8	-25.7	401,423.70	861,711.18	32.0993676	-103.2987373
09-T09-7000VS(N-107H) BP#2									
18,922.0	93.01	355.46	11,632.6	7,048.9	-29.3	401,472.88	861,707.61	32.0995028	-103.2987474
19,018.0	91.38	355.81	11,628.9	7,144.6	-36.6	401,568.53	861,700.31	32.0997659	-103.2987680
19,114.0	91.96	358.53	11,626.1	7,240.4	-41.3	401,664.36	861,695.57	32.1000294	-103.2987803
19,209.0	91.69	0.55	11,623.1	7,335.4	-42.1	401,759.30	861,694.81	32.1002904	-103.2987798
19,305.0	91.21	359.85	11,620.6	7,431.3	-41.7	401,855.27	861,695.14	32.1005542	-103.2987758
19,401.0	89.67	0.91	11,619.9	7,527.3	-41.1	401,951.26	861,695.78	32.1008180	-103.2987707
19,496.0	90.59	1.17	11,619.7	7,622.3	-39.4	402,046.24	861,697.50	32.1010790	-103.2987622
19,592.0	87.60	1.52	11,621.2	7,718.3	-37.1	402,142.19	861,699.76	32.1013426	-103.2987520
19,686.0	87.34	0.55	11,625.3	7,812.1	-35.4	402,236.09	861,701.45	32.1016007	-103.2987436
19,782.0	90.99	359.64	11,626.7	7,908.1	-35.3	402,332.06	861,701.61	32.1018644	-103.2987401
19,873.9	90.23	358.83	11,625.8	8,000.0	-36.5	402,423.97	861,700.38	32.1021171	-103.2987412
10-T10-8000VS(N-107H) BP#2									
19,877.0	90.20	358.80	11,625.8	8,003.1	-36.6	402,427.04	861,700.32	32.1021255	-103.2987413
19,972.0	90.46	358.80	11,625.2	8,098.1	-38.5	402,522.02	861,698.33	32.1023866	-103.2987448
20,068.0	90.33	359.50	11,624.5	8,194.1	-40.0	402,618.01	861,696.91	32.1026505	-103.2987464
20,164.0	89.76	359.59	11,624.5	8,290.1	-40.7	402,714.00	861,696.14	32.1029144	-103.2987459
20,259.0	88.57	357.83	11,625.9	8,385.0	-42.9	402,808.96	861,694.01	32.1031754	-103.2987499
20,354.0	89.41	357.74	11,627.5	8,479.9	-46.5	402,903.88	861,690.33	32.1034364	-103.2987588
20,450.0	89.10	357.92	11,628.8	8,575.9	-50.2	402,999.80	861,686.70	32.1037001	-103.2987676
20,546.0	94.86	0.55	11,625.5	8,671.7	-51.5	403,095.69	861,685.42	32.1039637	-103.2987687
20,641.0	96.57	0.82	11,616.0	8,766.3	-50.3	403,190.20	861,686.54	32.1042235	-103.2987622
20,736.0	93.76	1.43	11,607.5	8,860.8	-48.5	403,284.79	861,688.40	32.1044834	-103.2987532
20,832.0	92.92	0.38	11,601.9	8,956.7	-47.0	403,380.61	861,689.92	32.1047467	-103.2987454
20,874.7	92.69	0.29	11,599.8	8,999.3	-46.7	403,423.26	861,690.17	32.1048639	-103.2987432
11-T11-9000VS(N-107H) BP#2									
20,953.0	92.26	0.13	11,596.4	9,077.5	-46.4	403,501.49	861,690.45	32.1050789	-103.2987399
21,041.0	91.82	1.19	11,593.3	9,165.5	-45.4	403,589.42	861,691.47	32.1053206	-103.2987339
21,137.0	92.00	1.72	11,590.1	9,261.4	-43.0	403,685.34	861,693.90	32.1055841	-103.2987230
21,144.0	92.00	1.72	11,589.8	9,268.4	-42.8	403,692.33	861,694.11	32.1056034	-103.2987221
21,240.0	90.24	2.86	11,587.9	9,364.3	-38.9	403,788.23	861,697.95	32.1058668	-103.2987068
21,335.0	87.43	3.56	11,589.9	9,459.1	-33.6	403,883.05	861,703.27	32.1061273	-103.2986867
21,431.0	89.05	1.72	11,592.8	9,555.0	-29.2	403,978.90	861,707.69	32.1063906	-103.2986694
21,526.0	89.93	1.72	11,593.7	9,649.9	-26.3	404,073.85	861,710.54	32.1066515	-103.2986573
21,622.0	89.01	0.49	11,594.6	9,745.9	-24.5	404,169.83	861,712.39	32.1069153	-103.2986483
21,717.0	89.05	359.52	11,596.2	9,840.9	-24.5	404,264.81	861,712.40	32.1071763	-103.2986454
21,813.0	91.69	0.40	11,595.5	9,936.9	-24.5	404,360.80	861,712.33	32.1074402	-103.2986426
21,875.5	92.39	0.51	11,593.3	9,999.3	-24.0	404,423.25	861,712.83	32.1076118	-103.2986391
12-T12-10000VS(N-107H) BP#2									
21,908.0	92.75	0.57	11,591.9	10,031.8	-23.7	404,455.72	861,713.13	32.1077010	-103.2986371
22,004.0	94.15	359.43	11,586.1	10,127.6	-23.7	404,551.55	861,713.13	32.1079644	-103.2986341
22,099.0	94.42	359.87	11,579.0	10,222.3	-24.3	404,646.28	861,712.55	32.1082248	-103.2986330
22,123.0	94.64	0.22	11,577.1	10,246.3	-24.3	404,670.20	861,712.57	32.1082906	-103.2986322
22,136.6	94.64	0.22	11,576.0	10,259.8	-24.2	404,683.79	861,712.63	32.1083279	-103.2986316
13-LTP-940FEL(N-107H) BP#2									
22,140.0	94.64	0.22	11,575.7	10,263.2	-24.2	404,687.15	861,712.64	32.1083371	-103.2986315
Nandina 107H Unit Hardlines Exit at 22140.0 MD									



American Resource Development LLC.

Survey Report - Geographic

Company:	Ameredev Operating	Local Co-ordinate Reference:	Well Nandina Fed Com 25-36-31 107H
Project:	Lea County, NM (N83-NME)	TVD Reference:	GL 3,009' + 27' KB @ 3036.0usft (Nabors X49)
Site:	Nandina_GoldenBell	MD Reference:	GL 3,009' + 27' KB @ 3036.0usft (Nabors X49)
Well:	Nandina Fed Com 25-36-31 107H	North Reference:	Grid
Wellbore:	N107H	Survey Calculation Method:	Minimum Curvature
Design:	FINAL AD	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
22,186.4	94.64	0.22	11,572.0	10,309.4	-24.1	404,733.38	861,712.82	32.1084642	-103.2986295
14-PBHL-940FEL(N-107H) BP#2									
22,188.0	94.64	0.22	11,571.8	10,311.0	-24.1	404,734.99	861,712.82	32.1084686	-103.2986294

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
4701	4692	-195	63	NMNMA119762 Exit at 4701.0 MD	
11,274	11,254	-367	114	KOP @ 11274	
11,642	11,571	-194	90	NMNMA119762 Entry at 11642.0 MD	
11,760	11,638	-99	76	Nandina 107H Unit Hardlines Entry at 11760.0 MD	
12,227	11,687	360	29	EOC @ 12227	
14,315	11,716	2447	42	NMNMA137469 Entry at 14315.0 MD	
14,316	11,716	2448	42	NMNMA119762 Exit at 14316.0 MD	
18,282	11,638	6410	2	NMNMA137469 Exit at 18282.0 MD	
22,140	11,576	10,263	-24	Nandina 107H Unit Hardlines Exit at 22140.0 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 379168

ACKNOWLEDGMENTS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 379168
	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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State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

CONDITIONS

Action 379168

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 379168
	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 AFMSS BLM 3160-4 Completion Report (C-105) as a standalone.No need for the additional attachments such as -C-102/Wellbore Schematic/3160-4 Completion Report - forms are already within the approved C-104 Completion Packet. The Well Log should be submitted separately and not with C-105.	1/9/2025