



April 30, 2020

ATTN: Paul Kautz
NMOCD
1625 N. French Drive
Hobbs, NM 88240
(575) 393-6161 ext. 104

Paul,

I've enclosed several documents for the Pine Straw 25 36 05 Fed Com 101H (API#: 30-025-46288) for your review and approval, including:

- Form C-102 Well Location and Acreage Dedication Plat
- Form C-104 Request for Allowable/Authorization to Transport
- Form C-105 Well Completion Report
- As-Completed Wellbore Plat
- Final As-Drilled Directional Plan
- Additional Points Required Information Sheet
- Well Log
- Record Copy: Form 3160-4 Federal Completion Report
- Record Copy: Form 3160-5 Federal Sundry Notice - Intent to flow test

Please let me know if you have any questions.

Best regards,

Christie Hanna

Christie Hanna
Regulatory Coordinator

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-46288	² Pool Code 33813	³ Pool Name JAL; WOLFCAMP WEST
⁴ Property Code 326034	⁵ Property Name PINE STRAW FED COM 25 36 05	⁶ Well Number 101H
⁷ OGRID No. 372224	⁸ Operator Name AMEREDEV OPERATING, LLC.	⁹ Elevation 3241'

¹⁰Surface Location

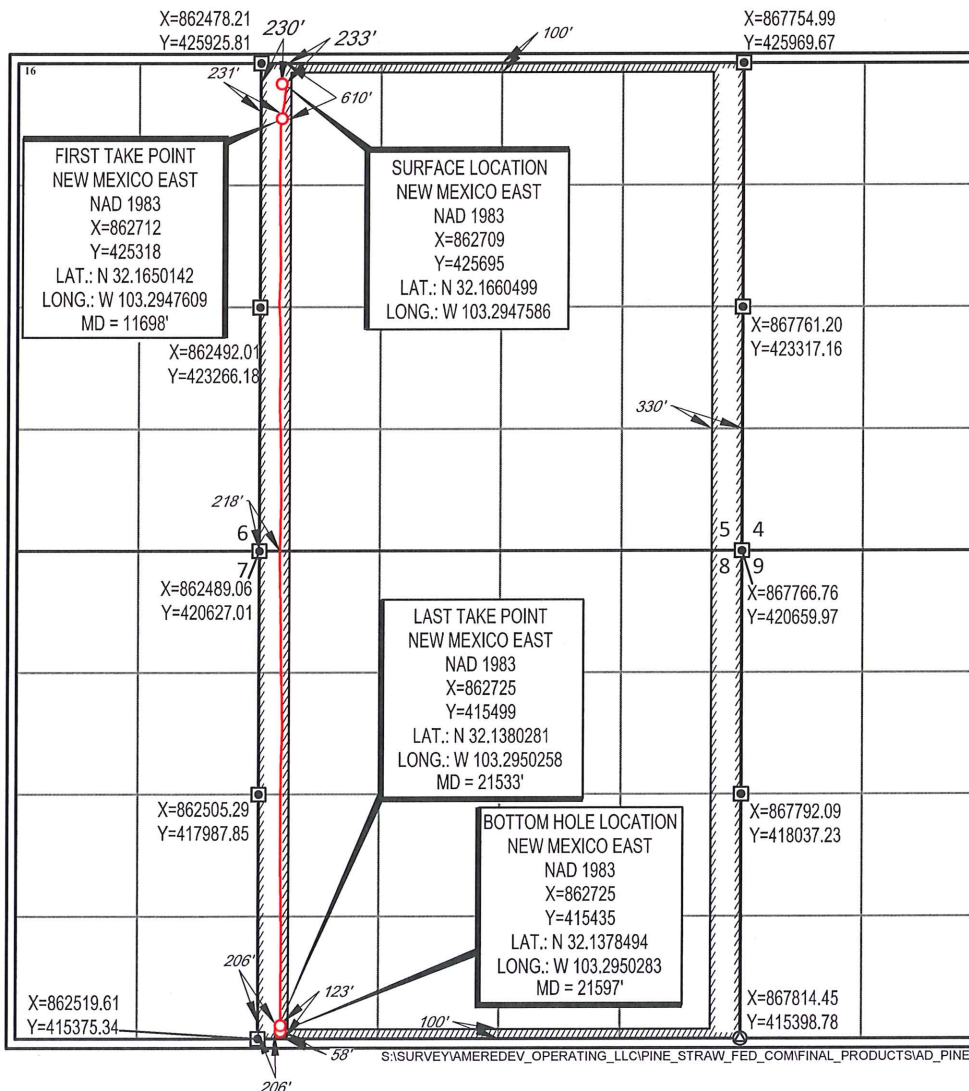
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	5	25-S	36-E	-	233'	NORTH	230'	WEST	LEA

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
M	8	25-S	36-E	-	58'	SOUTH	206'	WEST	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.



¹⁷OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Floyd Hammond 1/29/2020
Date

Floyd Hammond

Printed Name

fhammond@ameredev.com

E-mail Address

¹⁸SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

03/18/2019
Date of Survey
Signature and Seal of Professional Surveyor

JOHN TREVOR CARNEGIE
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
11401
John Carnegie
Certificate Number

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

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

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

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Ameredev Operating, LLC 5707 Southwest Parkway, Building 1, Suite 275 Austin, TX 78735		² OGRID Number 372224	
		³ Reason for Filing Code/ Effective Date	
⁴ API Number 30 - 025-46288	⁵ Pool Name JAL / 3rd Bone Spring		⁶ Pool Code 33813
⁷ Property Code 326034	⁸ Property Name Pine Straw 25 36 05 Fed Com		⁹ Well Number 101H

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
Lot 4	05	25-S	36-E	N	223	North	230	West	Lea

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	08	25-S	36-E	N	50	South	200	West	Lea
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date TBD	¹⁵ C-129 Permit Number None Assigned	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
35103	Sunoco Partners Marketing & Terminals L.P. 1735 Market Street, Suite LL Philadelphia, PA 19103	O
		G
372224	Marathon Oil Co PO Box 1324 Artesia, NM 88210	W
371677	Midcon Gathering, LLC 4295 San Felipe St Houston, TX 79027	O

IV. Well Completion Data

²¹ Spud Date 10/30/2019	²² Ready Date 1/30/2020	²³ TD 21,598	²⁴ PBTD 21,598	²⁵ Perforations 11,698' - 21,533' MD	²⁶ DHC, MC NA
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5"	13.375"	1,513'	1,600		
12.25"	10.75"	5,277'	450		
9.875"	7.625"	10,663'	1,200		
6.75"	Casing: 5.5" / Tubing: 2.875"	Casing: 21,598' / Tubing: xx,xxx'	1,465		

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature:	OIL CONSERVATION DIVISION Approved by: <i>Patricia Martinez</i> Title: Approval Date:
Printed name: Shane McNeely	
Title: Engineer	
E-mail Address: smcneely@ameredev.com	
Date: 1/29/2020	

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-105 Revised April 3, 2017													
		1. WELL API NO. 30-025-46288																
		2. Type of Lease ☐ STATE ☐ FEE ☒ FED/INDIAN																
		3. State Oil & Gas Lease No. NMNM120914																
WELL COMPLETION OR RECOMPLETION REPORT AND LOG																		
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)				5. Lease Name or Unit Agreement Name PINE STRAW 25 36 05 FED COM 6. Well Number: 101H														
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER																		
8. Name of Operator AMEREDEV OPERATING, LLC				9. OGRID 372224														
10. Address of Operator 2901 VIA FORTUNA SUITE 600 AUSTIN, TX 78746				11. Pool name or Wildcat JAL/WOLFCAMP; WEST (33813)														
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County								
Surface:		05	25S	36E	4	233	NORTH	230	WEST	LEA								
BH:	M	08	25S	36E		58	SOUTH	206	WEST	LEA								
13. Date Spudded 10/30/2019	14. Date T.D. Reached 12/31/2019	15. Date Rig Released 1/4/2020			16. Date Completed (Ready to Produce) 01/30/2020			17. Elevations (DF and RKB, RT, GR, etc.)										
18. Total Measured Depth of Well 21,598'			19. Plug Back Measured Depth 21,598'		20. Was Directional Survey Made? YES		21. Type Electric and Other Logs Run GR											
22. Producing Interval(s), of this completion - Top, Bottom, Name 11,698' - 21,533' - WOLFCAMP																		
23. CASING RECORD (Report all strings set in well)																		
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED								
13.375"		68		1,513'		17.5"		1,600										
10.75"		45.5		5,277'		12.25"		450										
7.625"		29.7		10,663'		9.875"		1,200										
5.5"		23		21,598'		6.75"		1,260										
24. LINER RECORD						25. TUBING RECORD												
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		SIZE	DEPTH SET	PACKER SET										
						2.875"	10,847	10,846'										
26. Perforation record (interval, size, and number)						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>DEPTH INTERVAL</th> <th>AMOUNT AND KIND MATERIAL USED</th> </tr> <tr> <td>11,698'-21,533'</td> <td>30,993,664 lbs. proppant, 757,609 bbls fluids</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>					DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	11,698'-21,533'	30,993,664 lbs. proppant, 757,609 bbls fluids				
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED																	
11,698'-21,533'	30,993,664 lbs. proppant, 757,609 bbls fluids																	
28. PRODUCTION																		
Date First Production 02/06/2020		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>) Flowing				Well Status (<i>Prod. or Shut-in</i>) Producing												
Date of Test 04/14/2020	Hours Tested 24	Choke Size 128	Prod'n For Test Period	Oil - Bbl 1,952	Gas - MCF 2,514	Water - Bbl. 1,915	Gas - Oil Ratio											
Flow Tubing Press. 320	Casing Pressure 0	Calculated 24-Hour Rate	Oil - Bbl. 1,952	Gas - MCF 2,514	Water - Bbl. 1,915	Oil Gravity - API - (<i>Corr.</i>) 41.8												
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>) Flare							30. Test Witnessed By											
31. List Attachments																		
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.							33. Rig Release Date: 10/2/2019											
34. If an on-site burial was used at the well, report the exact location of the on-site burial:																		
Latitude _____ Longitude _____ NAD83																		
<i>I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief</i>																		
Printed																		
Signature <i>Shane McNeely</i>		Name Shane McNeely		Title Engineer		Date 5/1/2020												
E-mail Address smcneely@ameredev.com							<i>PM</i>											

INSTRUCTIONS

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

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy 1496	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt 2027	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs 8181	T. Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp 11582	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

OIL OR GAS SANDS OR ZONES

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

IMPORTANT WATER SANDS

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

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

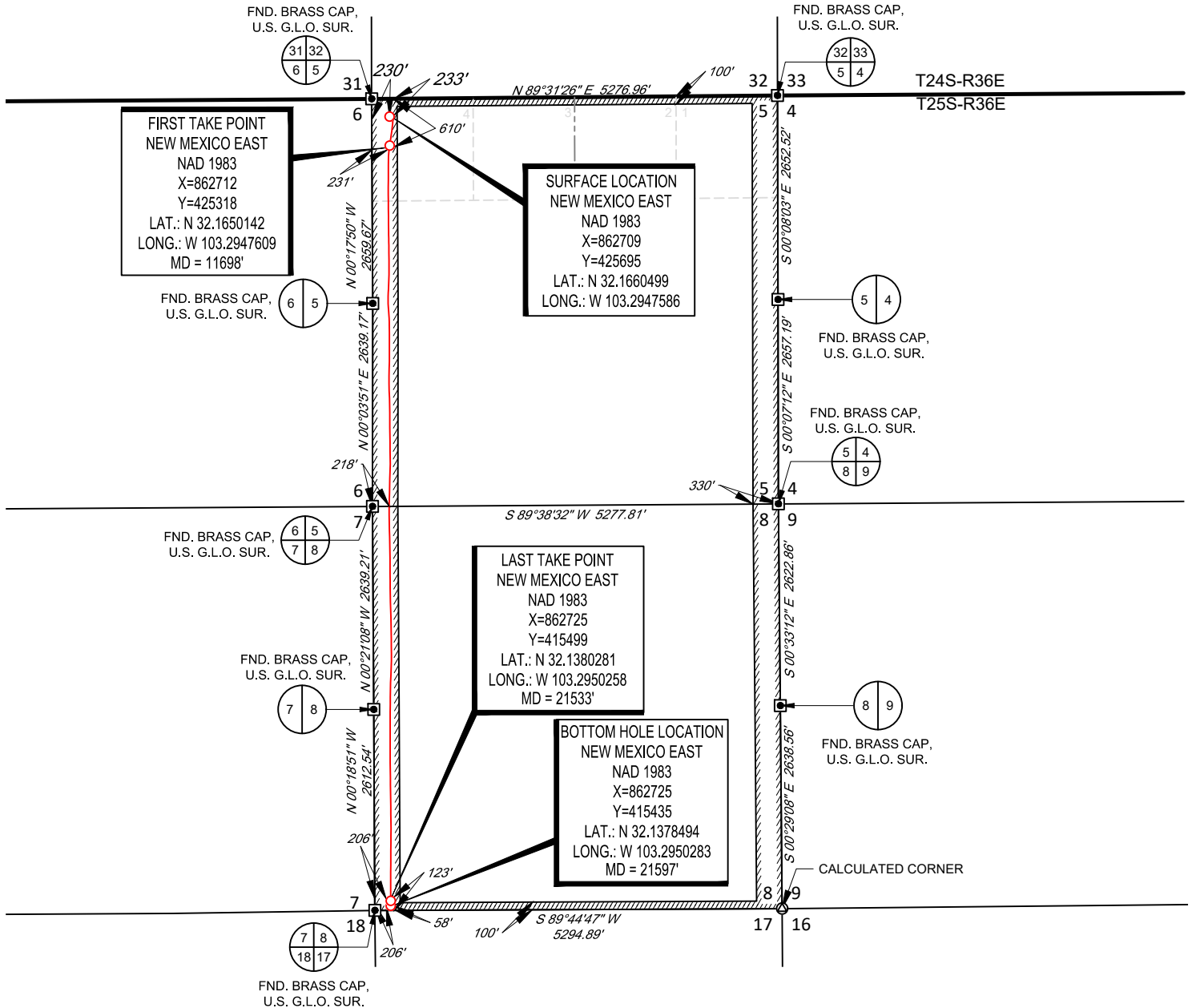
LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology
0	1496	956	Sand/Silts/Clay				
1496	2027	531	Anhydrite/Dolomite				
2027	3588	1561	Anhydrite/Salt				
3588	7049	3461	Limestone/Dolomite				
7049	9612	2563	Sands/Silts/Limestone				
9612	11307	1695	Limestone w/ Minor Sands & Silts				
11582			Silty Limestone				



AMEREDEV OPERATING, LLC
EXHIBIT 2A

SECTION 5, TOWNSHIP 25-S, RANGE 36-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: PINE STRAW FED COM 25 36 05 101H

SECTION 5 TWP 25-S RGE 36-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 233' FNL & 230' FWL



SCALE: 1" = 2000'
0' 1000' 2000'



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



John Trevor Carnegie, P.S. No. 11401

PINE STRAW FED COM
25 36 05 101H
AS-COMPLETED

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.

DATE: 01/22/2020

FILE: AD_PINE_STRAW_FED_COM_25_36_05_101H

DRAWN BY: JDR

SHEET: 1 OF 1



Ameredev Operating, LLC.

PIN/DOG

PIN/DOG #1S

Pine Straw 101H

Final Survey

Plan: Design #1

Standard Planning Report

02 January, 2020



Ameredev Operating, LLC
Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Pine Straw 101H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3268.0usft
Project:	PIN/DOG	MD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	North Reference:	Grid
Well:	Pine Straw 101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Final Survey		
Design:	Design #1		

Project	PIN/DOG		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		PIN/DOG #1S			
Site Position:		Northing:	425,695.22 usft	Latitude:	32° 9' 57.779 N
From:	Lat/Long	Easting:	862,769.39 usft	Longitude:	103° 17' 40.433 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.55 °

Well	Pine Straw 101H					
Well Position	+N/-S	-0.5 usft	Northing:	425,694.72 usft	Latitude:	32° 9' 57.780 N
	+E/-W	-60.0 usft	Easting:	862,709.39 usft	Longitude:	103° 17' 41.131 W
Position Uncertainty	0.0 usft		Wellhead Elevation:		Ground Level:	3,241.0 usft

Wellbore	Final Survey				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/2/2020	6.54	60.02	47,671.81117556

Design	Design #1			
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	179.91

Plan Survey Tool Program	Date	1/2/2020		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	21,598.0	Design #1 (Final Survey)	MWD
				OWSG MWD - Standard

Database:	EDM5000	Local Co-ordinate Reference:	Well Pine Straw 101H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3268.0usft
Project:	PIN/DOG	MD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	North Reference:	Grid
Well:	Pine Straw 101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Final Survey		
Design:	Design #1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
70.0	0.40	181.00	70.0	-0.2	0.0	0.57	0.57	0.00	181.00	
179.0	0.50	133.00	179.0	-0.9	0.3	0.35	0.09	-44.04	-99.99	
266.0	0.20	176.00	266.0	-1.4	0.6	0.44	-0.34	49.43	158.91	
370.0	0.20	209.00	370.0	-1.7	0.5	0.11	0.00	31.73	106.50	
495.0	0.60	163.00	495.0	-2.5	0.6	0.39	0.32	-36.80	-63.33	
590.0	0.40	158.00	590.0	-3.3	0.9	0.22	-0.21	-5.26	-170.19	
686.0	0.40	260.00	686.0	-3.7	0.7	0.65	0.00	106.25	141.00	
810.0	0.30	199.00	810.0	-4.1	0.2	0.29	-0.08	-49.19	-134.13	
904.0	1.10	184.00	904.0	-5.2	0.0	0.87	0.85	-15.96	-20.47	
936.0	1.10	202.00	936.0	-5.8	-0.1	1.08	0.00	56.25	99.00	
999.0	1.20	194.00	999.0	-7.0	-0.5	0.30	0.16	-12.70	-62.13	
1,061.0	0.90	203.00	1,060.9	-8.1	-0.8	0.55	-0.48	14.52	155.65	
1,189.0	1.30	175.00	1,188.9	-10.4	-1.1	0.51	0.31	-21.88	-67.90	
1,284.0	1.50	171.00	1,283.9	-12.7	-0.8	0.23	0.21	-4.21	-28.05	
1,311.0	1.90	202.00	1,310.9	-13.5	-0.9	3.66	1.48	114.81	82.50	
1,345.0	1.20	206.00	1,344.9	-14.3	-1.3	2.08	-2.06	11.76	173.21	
1,397.0	0.90	179.00	1,396.9	-15.2	-1.5	1.10	-0.58	-51.92	-134.25	
1,459.0	1.10	172.00	1,458.9	-16.3	-1.4	0.38	0.32	-11.29	-34.95	
1,520.0	1.50	155.00	1,519.8	-17.6	-1.0	0.90	0.66	-27.87	-52.67	
1,568.0	0.78	172.22	1,567.8	-18.5	-0.7	1.64	-1.50	35.88	162.99	
1,631.0	0.57	162.13	1,630.8	-19.2	-0.6	0.38	-0.33	-16.02	-155.47	
1,726.0	1.52	136.38	1,725.8	-20.6	0.5	1.09	1.00	-27.11	-39.57	
1,821.0	0.25	115.34	1,820.8	-21.6	1.5	1.36	-1.34	-22.15	-176.01	
1,917.0	0.57	329.70	1,916.8	-21.3	1.5	0.82	0.33	-151.71	-155.94	
2,012.0	0.84	287.16	2,011.8	-20.7	0.6	0.60	0.28	-44.78	-85.08	
2,107.0	0.99	301.85	2,106.8	-20.0	-0.8	0.29	0.16	15.46	64.89	
2,203.0	0.82	314.58	2,202.8	-19.1	-2.0	0.27	-0.18	13.26	136.46	
2,299.0	0.70	323.55	2,298.8	-18.1	-2.8	0.18	-0.13	9.34	139.67	
2,394.0	0.70	329.87	2,393.7	-17.2	-3.5	0.08	0.00	6.65	93.16	
2,489.0	0.81	347.35	2,488.7	-16.0	-3.9	0.27	0.12	18.40	73.38	
2,583.0	0.92	9.75	2,582.7	-14.6	-3.9	0.38	0.12	23.83	83.40	
2,678.0	1.03	9.66	2,677.7	-13.0	-3.7	0.12	0.12	-0.09	-0.84	
2,774.0	1.11	12.19	2,773.7	-11.3	-3.3	0.10	0.08	2.64	31.83	
2,870.0	1.26	13.12	2,869.7	-9.3	-2.9	0.16	0.16	0.97	7.77	
2,964.0	1.44	27.45	2,963.7	-7.3	-2.1	0.41	0.19	15.24	69.22	
3,057.0	1.87	35.18	3,056.6	-5.0	-0.7	0.52	0.46	8.31	31.34	
3,153.0	2.11	39.47	3,152.6	-2.4	1.3	0.29	0.25	4.47	33.98	
3,248.0	2.28	43.75	3,247.5	0.4	3.8	0.25	0.18	4.51	46.11	
3,343.0	2.60	47.65	3,342.4	3.2	6.7	0.38	0.34	4.11	29.38	
3,438.0	2.75	57.96	3,437.3	5.8	10.2	0.53	0.16	10.85	77.88	
3,533.0	1.91	54.89	3,532.2	8.0	13.4	0.89	-0.88	-3.23	-173.08	
3,627.0	1.32	24.19	3,626.2	9.8	15.1	1.09	-0.63	-32.66	-138.99	
3,722.0	1.38	14.07	3,721.2	12.0	15.9	0.26	0.06	-10.65	-80.97	
3,816.0	1.45	359.52	3,815.1	14.2	16.1	0.39	0.07	-15.48	-86.31	
3,910.0	1.12	348.77	3,909.1	16.3	15.9	0.43	-0.35	-11.44	-149.14	
4,005.0	0.94	314.27	4,004.1	17.8	15.2	0.67	-0.19	-36.32	-122.97	
4,101.0	0.83	316.11	4,100.1	18.8	14.1	0.12	-0.11	1.92	166.43	



Ameredev Operating, LLC
Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Pine Straw 101H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3268.0usft
Project:	PIN/DOG	MD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	North Reference:	Grid
Well:	Pine Straw 101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Final Survey		
Design:	Design #1		

4,195.0	0.94	317.39	4,194.1	19.9	13.2	0.12	0.12	1.36	10.83
4,290.0	0.48	339.04	4,289.1	20.8	12.5	0.55	-0.48	22.79	160.27
4,400.0	2.73	289.53	4,399.0	22.1	9.9	2.22	2.05	-45.01	-58.09
4,480.0	2.87	287.15	4,478.9	23.4	6.1	0.23	0.18	-2.98	-40.90
4,576.0	2.03	272.28	4,574.8	24.1	2.1	1.09	-0.88	-15.49	-150.16
4,671.0	1.79	260.71	4,669.8	24.0	-1.0	0.48	-0.25	-12.18	-127.59
4,765.0	1.40	269.31	4,763.7	23.7	-3.6	0.49	-0.41	9.15	152.71
4,860.0	2.12	282.90	4,858.7	24.1	-6.5	0.87	0.76	14.31	37.01
4,954.0	2.32	295.13	4,952.6	25.3	-9.9	0.55	0.21	13.01	73.30
5,049.0	2.31	299.47	5,047.5	27.1	-13.3	0.18	-0.01	4.57	95.43
5,144.0	2.52	293.92	5,142.5	28.8	-16.9	0.33	0.22	-5.84	-50.87
5,239.0	3.65	292.15	5,237.3	30.8	-21.6	1.19	1.19	-1.86	-5.70
5,334.0	3.99	295.32	5,332.1	33.4	-27.4	0.42	0.36	3.34	33.43
5,430.0	2.52	294.55	5,428.0	35.7	-32.3	1.53	-1.53	-0.80	-178.68
5,526.0	0.57	301.21	5,523.9	36.8	-34.6	2.04	-2.03	6.94	178.06
5,621.0	0.87	77.06	5,618.9	37.2	-34.3	1.41	0.32	143.00	153.09
5,716.0	1.38	87.00	5,713.9	37.4	-32.5	0.57	0.54	10.46	25.96
5,811.0	1.38	106.45	5,808.9	37.2	-30.3	0.49	0.00	20.47	99.72
5,907.0	1.39	94.47	5,904.8	36.8	-28.0	0.30	0.01	-12.48	-94.02
6,002.0	1.46	103.79	5,999.8	36.4	-25.7	0.25	0.07	9.81	77.89
6,097.0	1.40	99.46	6,094.8	35.9	-23.3	0.13	-0.06	-4.56	-121.19
6,192.0	1.40	102.35	6,189.7	35.5	-21.1	0.07	0.00	3.04	91.44
6,287.0	1.56	102.97	6,284.7	34.9	-18.7	0.17	0.17	0.65	6.03
6,382.0	1.50	108.81	6,379.7	34.2	-16.2	0.18	-0.06	6.15	113.95
6,477.0	1.79	115.89	6,474.6	33.2	-13.7	0.37	0.31	7.45	38.60
6,572.0	1.94	119.13	6,569.6	31.8	-11.0	0.19	0.16	3.41	36.73
6,668.0	1.69	118.26	6,665.5	30.3	-8.3	0.26	-0.26	-0.91	-174.14
6,763.0	1.57	123.58	6,760.5	28.9	-6.0	0.20	-0.13	5.60	131.05
6,858.0	1.62	121.55	6,855.5	27.5	-3.8	0.08	0.05	-2.14	-49.51
6,954.0	1.66	122.57	6,951.4	26.0	-1.4	0.05	0.04	1.06	36.63
7,049.0	1.77	113.28	7,046.4	24.7	1.1	0.31	0.12	-9.78	-73.10
7,144.0	1.84	114.52	7,141.3	23.5	3.8	0.08	0.07	1.31	29.78
7,239.0	1.85	116.50	7,236.3	22.2	6.6	0.07	0.01	2.08	82.08
7,334.0	2.02	114.72	7,331.2	20.8	9.5	0.19	0.18	-1.87	-20.36
7,430.0	1.59	119.01	7,427.2	19.4	12.2	0.47	-0.45	4.47	164.69
7,525.0	1.57	140.13	7,522.2	17.8	14.1	0.61	-0.02	22.23	102.50
7,620.0	1.46	135.04	7,617.1	15.9	15.8	0.18	-0.12	-5.36	-131.79
7,716.0	1.39	144.56	7,713.1	14.1	17.4	0.26	-0.07	9.92	111.19
7,811.0	1.33	125.35	7,808.1	12.6	18.9	0.48	-0.06	-20.22	-107.03
7,907.0	1.02	132.85	7,904.0	11.3	20.5	0.36	-0.32	7.81	157.33
8,002.0	1.03	135.83	7,999.0	10.1	21.7	0.06	0.01	3.14	80.87
8,097.0	0.98	138.23	8,094.0	8.9	22.8	0.07	-0.05	2.53	141.10
8,192.0	0.65	165.11	8,189.0	7.8	23.5	0.52	-0.35	28.29	143.71
8,288.0	1.13	187.11	8,285.0	6.3	23.5	0.61	0.50	22.92	46.78
8,383.0	0.95	180.98	8,380.0	4.6	23.4	0.22	-0.19	-6.45	-151.32
8,478.0	0.85	176.26	8,475.0	3.1	23.4	0.13	-0.11	-4.97	-145.79
8,574.0	0.78	158.90	8,571.0	1.8	23.7	0.27	-0.07	-18.08	-114.39
8,669.0	0.68	140.64	8,666.0	0.8	24.3	0.27	-0.11	-19.22	-122.21
8,764.0	0.68	128.75	8,760.9	0.0	25.1	0.15	0.00	-12.52	-95.94
8,859.0	0.61	120.79	8,855.9	-0.6	26.0	0.12	-0.07	-8.38	-131.93
8,954.0	0.65	75.05	8,950.9	-0.8	26.9	0.52	0.04	-48.15	-108.56
9,050.0	0.71	72.95	9,046.9	-0.4	28.0	0.07	0.06	-2.19	-23.61
9,144.0	1.18	70.60	9,140.9	0.1	29.5	0.50	0.50	-2.50	-5.89

Database:	EDM5000	Local Co-ordinate Reference:	Well Pine Straw 101H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3268.0usft
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Site:	PIN/DOG #1S	North Reference:	Grid
Well:	Pine Straw 101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Final Survey		
Design:	Design #1		

9,239.0	1.02	78.23	9,235.9	0.6	31.2	0.23	-0.17	8.03	141.30
9,335.0	1.29	70.04	9,331.9	1.1	33.1	0.33	0.28	-8.53	-35.58
9,430.0	1.90	78.64	9,426.8	1.8	35.7	0.69	0.64	9.05	25.76
9,526.0	1.67	77.64	9,522.8	2.4	38.6	0.24	-0.24	-1.04	-172.79
9,622.0	1.80	74.87	9,618.7	3.1	41.4	0.16	0.14	-2.89	-34.22
9,717.0	1.15	77.14	9,713.7	3.7	43.8	0.69	-0.68	2.39	176.00
9,812.0	0.48	79.52	9,808.7	4.0	45.1	0.71	-0.71	2.51	178.30
9,907.0	0.47	23.64	9,903.7	4.4	45.6	0.47	-0.01	-58.82	-119.08
10,002.0	0.58	323.02	9,998.7	5.1	45.5	0.57	0.12	-63.81	-110.15
10,098.0	0.57	21.89	10,094.7	6.0	45.4	0.59	-0.01	61.32	120.32
10,194.0	0.75	47.99	10,190.7	6.8	46.0	0.36	0.19	27.19	72.58
10,289.0	0.71	57.17	10,285.7	7.6	47.0	0.13	-0.04	9.66	113.43
10,384.0	0.66	216.93	10,380.7	7.4	47.2	1.42	-0.05	168.17	170.25
10,480.0	0.21	212.14	10,476.7	6.9	46.7	0.47	-0.47	-4.99	-177.77
10,575.0	0.22	203.84	10,571.7	6.5	46.6	0.03	0.01	-8.74	-76.38
10,601.0	0.17	228.30	10,597.7	6.5	46.5	0.37	-0.19	94.08	132.83
10,705.0	0.65	208.91	10,701.7	5.8	46.1	0.47	0.46	-18.64	-25.97
10,800.0	0.35	152.53	10,796.7	5.1	46.0	0.57	-0.32	-59.35	-147.43
10,895.0	0.66	89.16	10,891.7	4.9	46.7	0.62	0.33	-66.71	-95.24
11,048.0	8.60	181.69	11,044.1	-6.6	47.2	5.66	5.19	60.48	96.87
11,080.0	11.14	182.66	11,075.6	-12.1	47.0	7.95	7.94	3.03	4.22
11,125.0	17.63	182.63	11,119.2	-23.2	46.5	14.42	14.42	-0.07	-0.08
11,175.0	19.95	182.39	11,166.5	-39.3	45.8	4.64	4.64	-0.48	-2.02
11,220.0	21.89	182.62	11,208.5	-55.4	45.1	4.31	4.31	0.51	2.53
11,270.0	27.10	183.95	11,254.0	-76.0	43.9	10.48	10.42	2.66	6.65
11,315.0	31.91	185.63	11,293.2	-98.1	42.0	10.84	10.69	3.73	10.50
11,366.0	36.08	187.02	11,335.5	-126.4	38.8	8.32	8.18	2.73	11.14
11,411.0	38.96	187.62	11,371.1	-153.6	35.3	6.45	6.40	1.33	7.47
11,461.0	41.03	187.57	11,409.4	-185.5	31.1	4.14	4.14	-0.10	-0.91
11,493.0	43.84	188.29	11,433.1	-206.9	28.1	8.91	8.78	2.25	10.08
11,523.0	48.05	188.38	11,453.9	-228.2	25.0	14.03	14.03	0.30	0.91
11,555.0	52.25	188.48	11,474.4	-252.5	21.4	13.13	13.13	0.31	1.08
11,587.0	57.47	188.40	11,492.8	-278.4	17.5	16.31	16.31	-0.25	-0.74
11,619.0	60.56	188.74	11,509.3	-305.5	13.5	9.70	9.66	1.06	5.48
11,651.0	63.76	188.98	11,524.2	-333.4	9.1	10.02	10.00	0.75	3.85
11,682.0	68.14	187.96	11,536.9	-361.4	4.9	14.44	14.13	-3.29	-12.22
11,745.0	75.64	186.96	11,556.4	-420.8	-2.8	12.00	11.90	-1.59	-7.38
11,777.0	79.75	186.54	11,563.3	-451.8	-6.5	12.91	12.84	-1.31	-5.75
11,840.0	87.45	182.49	11,570.3	-514.2	-11.4	13.79	12.22	-6.43	-27.85
11,955.0	88.07	180.07	11,574.8	-629.0	-14.0	2.17	0.54	-2.10	-75.67
12,050.0	86.66	179.68	11,579.1	-723.9	-13.8	1.54	-1.48	-0.41	-164.56
12,145.0	90.27	180.56	11,581.7	-818.9	-14.0	3.91	3.80	0.93	13.71
12,241.0	90.69	180.08	11,580.9	-914.9	-14.5	0.66	0.44	-0.50	-48.81
12,336.0	90.81	179.95	11,579.6	-1,009.9	-14.5	0.19	0.13	-0.14	-47.29
12,432.0	91.24	179.65	11,577.9	-1,105.9	-14.2	0.55	0.45	-0.31	-34.90
12,527.0	89.71	179.29	11,577.1	-1,200.8	-13.3	1.65	-1.61	-0.38	-166.76
12,622.0	87.29	179.89	11,579.6	-1,295.8	-12.6	2.62	-2.55	0.63	166.09
12,717.0	86.60	179.57	11,584.7	-1,390.7	-12.2	0.80	-0.73	-0.34	-155.16
12,813.0	85.50	178.90	11,591.3	-1,486.4	-10.9	1.34	-1.15	-0.70	-148.74
12,859.0	85.55	178.58	11,594.9	-1,532.3	-9.9	0.70	0.11	-0.70	-81.11
12,908.0	87.42	179.07	11,597.9	-1,581.2	-8.9	3.94	3.82	1.00	14.67
12,955.0	87.56	179.22	11,600.0	-1,628.1	-8.2	0.44	0.30	0.32	46.95
13,002.0	89.62	179.29	11,601.1	-1,675.1	-7.6	4.39	4.38	0.15	1.95



Ameredev Operating, LLC
Planning Report

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Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3268.0usft
Project:	PIN/DOG	MD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	North Reference:	Grid
Well:	Pine Straw 101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Final Survey		
Design:	Design #1		

13,040.0	89.40	179.44	11,601.4	-1,713.1	-7.2	0.70	-0.58	0.39	145.71
13,097.0	90.00	179.09	11,601.7	-1,770.1	-6.4	1.22	1.05	-0.61	-30.26
13,190.0	94.19	179.60	11,598.3	-1,863.0	-5.4	4.54	4.51	0.55	6.93
13,286.0	94.00	179.93	11,591.5	-1,958.8	-5.0	0.40	-0.20	0.34	119.98
13,381.0	92.07	180.75	11,586.4	-2,053.6	-5.5	2.21	-2.03	0.86	156.99
13,475.0	89.94	182.52	11,584.8	-2,147.5	-8.2	2.95	-2.27	1.88	140.26
13,568.0	85.78	182.89	11,588.3	-2,240.4	-12.6	4.49	-4.47	0.40	174.93
13,616.0	85.60	183.35	11,591.9	-2,288.2	-15.2	1.03	-0.38	0.96	111.44
13,664.0	85.46	181.23	11,595.6	-2,336.0	-17.1	4.41	-0.29	-4.42	-93.87
13,714.0	85.68	179.43	11,599.5	-2,385.8	-17.4	3.62	0.44	-3.60	-83.08
13,759.0	87.52	177.48	11,602.2	-2,430.7	-16.2	5.95	4.09	-4.33	-46.67
13,809.0	88.00	176.04	11,604.1	-2,480.6	-13.4	3.03	0.96	-2.88	-71.58
13,852.0	87.88	175.34	11,605.7	-2,523.4	-10.1	1.65	-0.28	-1.63	-99.75
13,902.0	90.01	176.32	11,606.6	-2,573.3	-6.5	4.69	4.26	1.96	24.71
13,948.0	89.20	177.87	11,606.9	-2,619.2	-4.2	3.80	-1.76	3.37	117.59
13,998.0	88.75	178.93	11,607.8	-2,669.2	-2.8	2.30	-0.90	2.12	113.01
14,042.0	89.09	179.38	11,608.6	-2,713.2	-2.1	1.28	0.77	1.02	52.93
14,138.0	88.55	179.14	11,610.6	-2,809.2	-0.9	0.62	-0.56	-0.25	-156.04
14,232.0	90.79	179.58	11,611.1	-2,903.2	0.2	2.43	2.38	0.47	11.11
14,326.0	88.35	180.07	11,611.8	-2,997.1	0.4	2.65	-2.60	0.52	168.65
14,420.0	87.68	180.10	11,615.1	-3,091.1	0.3	0.71	-0.71	0.03	177.44
14,514.0	90.63	181.07	11,616.5	-3,185.1	-0.7	3.30	3.14	1.03	18.21
14,608.0	91.58	182.00	11,614.7	-3,279.0	-3.2	1.41	1.01	0.99	44.38
14,704.0	89.86	181.13	11,613.5	-3,375.0	-5.8	2.01	-1.79	-0.91	-153.16
14,797.0	85.93	179.15	11,616.9	-3,467.9	-6.0	4.73	-4.23	-2.13	-153.31
14,893.0	86.94	177.35	11,622.8	-3,563.6	-3.1	2.15	1.05	-1.88	-60.71
14,989.0	91.12	178.14	11,624.5	-3,659.5	0.7	4.43	4.35	0.82	10.71
15,082.0	89.09	179.22	11,624.3	-3,752.5	2.8	2.47	-2.18	1.16	151.98
15,177.0	88.17	179.29	11,626.6	-3,847.5	4.1	0.97	-0.97	0.07	175.65
15,272.0	85.58	179.99	11,631.8	-3,942.3	4.6	2.82	-2.73	0.74	164.92
15,368.0	87.80	179.76	11,637.3	-4,038.1	4.9	2.32	2.31	-0.24	-5.91
15,463.0	86.58	178.70	11,642.0	-4,133.0	6.1	1.70	-1.28	-1.12	-139.07
15,559.0	86.25	179.67	11,648.0	-4,228.8	7.5	1.07	-0.34	1.01	108.85
15,654.0	89.10	179.58	11,651.8	-4,323.7	8.1	3.00	3.00	-0.09	-1.81
15,749.0	86.83	178.57	11,655.2	-4,418.6	9.6	2.62	-2.39	-1.06	-156.04
15,845.0	92.94	180.18	11,655.4	-4,514.6	10.7	6.58	6.36	1.68	14.77
15,940.0	96.87	182.16	11,647.3	-4,609.2	8.8	4.63	4.14	2.08	26.58
16,035.0	91.08	182.20	11,640.7	-4,703.9	5.2	6.09	-6.09	0.04	179.60
16,130.0	88.85	180.95	11,640.7	-4,798.8	2.6	2.69	-2.35	-1.32	-150.73
16,225.0	87.76	180.93	11,643.5	-4,893.8	1.0	1.15	-1.15	-0.02	-178.95
16,321.0	90.65	181.64	11,644.9	-4,989.7	-1.2	3.10	3.01	0.74	13.81
16,417.0	84.96	180.33	11,648.5	-5,085.6	-2.8	6.08	-5.93	-1.36	-167.06
16,512.0	83.55	179.93	11,658.1	-5,180.1	-3.0	1.54	-1.48	-0.42	-164.26
16,608.0	82.44	178.56	11,669.8	-5,275.4	-1.8	1.83	-1.16	-1.43	-129.31
16,704.0	82.69	178.93	11,682.2	-5,370.6	0.3	0.46	0.26	0.39	55.75
16,799.0	86.68	178.08	11,691.0	-5,465.1	2.8	4.29	4.20	-0.89	-12.02
16,893.0	88.07	179.12	11,695.3	-5,559.0	5.1	1.85	1.48	1.11	36.80
16,988.0	88.73	179.60	11,697.9	-5,653.9	6.1	0.86	0.69	0.51	36.02
17,083.0	88.52	179.00	11,700.2	-5,748.9	7.3	0.67	-0.22	-0.63	-109.30
17,178.0	90.83	179.72	11,700.8	-5,843.9	8.4	2.55	2.43	0.76	17.31
17,272.0	88.22	179.90	11,701.5	-5,937.9	8.7	2.78	-2.78	0.19	176.06
17,367.0	87.60	179.74	11,705.0	-6,032.8	9.0	0.67	-0.65	-0.17	-165.54
17,461.0	87.83	179.45	11,708.7	-6,126.7	9.6	0.39	0.24	-0.31	-51.57



Ameredev Operating, LLC
Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Pine Straw 101H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3268.0usft
Project:	PIN/DOG	MD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	North Reference:	Grid
Well:	Pine Straw 101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Final Survey		
Design:	Design #1		

17,555.0	87.58	178.75	11,712.5	-6,220.6	11.1	0.79	-0.27	-0.74	-109.68
17,649.0	87.25	178.20	11,716.8	-6,314.5	13.6	0.68	-0.35	-0.59	-121.00
17,744.0	88.50	178.09	11,720.3	-6,409.4	16.7	1.32	1.32	-0.12	-5.03
17,837.0	90.82	178.04	11,720.8	-6,502.3	19.8	2.50	2.49	-0.05	-1.23
17,932.0	91.33	179.45	11,719.0	-6,597.3	21.9	1.58	0.54	1.48	70.10
18,028.0	92.37	179.44	11,715.9	-6,693.2	22.8	1.08	1.08	-0.01	-0.55
18,122.0	92.53	179.08	11,711.9	-6,787.1	24.0	0.42	0.17	-0.38	-66.01
18,217.0	92.86	179.49	11,707.5	-6,882.0	25.2	0.55	0.35	0.43	51.13
18,313.0	92.59	179.72	11,702.9	-6,977.9	25.9	0.37	-0.28	0.24	139.60
18,408.0	92.47	180.27	11,698.7	-7,072.8	25.9	0.59	-0.13	0.58	102.31
18,502.0	92.44	182.55	11,694.7	-7,166.7	23.6	2.42	-0.03	2.43	90.71
18,597.0	89.58	182.67	11,693.0	-7,261.6	19.3	3.01	-3.01	0.13	177.60
18,693.0	89.65	182.22	11,693.6	-7,357.5	15.2	0.47	0.07	-0.47	-81.16
18,786.0	90.43	180.55	11,693.6	-7,450.4	12.9	1.98	0.84	-1.80	-64.97
18,881.0	90.47	180.45	11,692.8	-7,545.4	12.1	0.11	0.04	-0.11	-68.20
18,976.0	92.81	180.79	11,690.1	-7,640.4	11.1	2.49	2.46	0.36	8.26
19,072.0	93.15	180.50	11,685.1	-7,736.3	10.0	0.47	0.35	-0.30	-40.42
19,167.0	92.86	180.08	11,680.1	-7,831.1	9.5	0.54	-0.31	-0.44	-124.65
19,261.0	93.16	180.19	11,675.2	-7,925.0	9.3	0.34	0.32	0.12	20.11
19,356.0	92.29	179.67	11,670.7	-8,019.9	9.4	1.07	-0.92	-0.55	-149.15
19,451.0	91.74	180.22	11,667.4	-8,114.8	9.5	0.82	-0.58	0.58	135.01
19,547.0	91.92	180.12	11,664.3	-8,210.8	9.2	0.21	0.19	-0.10	-29.04
19,642.0	93.06	179.93	11,660.2	-8,305.7	9.2	1.22	1.20	-0.20	-9.45
19,735.0	89.43	179.45	11,658.1	-8,398.6	9.7	3.94	-3.90	-0.52	-172.46
19,830.0	89.51	179.12	11,659.0	-8,493.6	10.9	0.36	0.08	-0.35	-76.37
19,925.0	89.06	179.12	11,660.2	-8,588.6	12.3	0.47	-0.47	0.00	180.00
20,021.0	89.87	179.48	11,661.1	-8,684.6	13.5	0.92	0.84	0.38	23.96
20,115.0	89.17	179.41	11,661.9	-8,778.6	14.4	0.75	-0.74	-0.07	-174.29
20,210.0	89.62	179.07	11,662.9	-8,873.6	15.7	0.59	0.47	-0.36	-37.07
20,305.0	93.87	179.03	11,660.0	-8,968.5	17.2	4.47	4.47	-0.04	-0.54
20,401.0	94.19	179.14	11,653.3	-9,064.3	18.8	0.35	0.33	0.11	18.92
20,495.0	94.36	179.07	11,646.2	-9,158.0	20.2	0.20	0.18	-0.07	-22.32
20,590.0	94.00	180.13	11,639.3	-9,252.7	20.9	1.18	-0.38	1.12	108.77
20,685.0	93.25	180.60	11,633.3	-9,347.5	20.3	0.93	-0.79	0.49	147.96
20,780.0	92.31	180.44	11,628.7	-9,442.4	19.4	1.00	-0.99	-0.17	-170.35
20,875.0	92.05	180.59	11,625.1	-9,537.3	18.6	0.32	-0.27	0.16	150.03
20,970.0	91.69	180.33	11,622.0	-9,632.3	17.8	0.47	-0.38	-0.27	-144.17
21,065.0	91.24	180.28	11,619.6	-9,727.3	17.3	0.48	-0.47	-0.05	-173.66
21,159.0	90.80	180.43	11,617.9	-9,821.2	16.7	0.49	-0.47	0.16	161.18
21,254.0	90.31	180.24	11,617.0	-9,916.2	16.2	0.55	-0.52	-0.20	-158.81
21,350.0	89.81	179.90	11,616.9	-10,012.2	16.0	0.63	-0.52	-0.35	-145.78
21,443.0	90.34	180.25	11,616.7	-10,105.2	15.9	0.68	0.57	0.38	33.44
21,533.0	89.53	180.13	11,616.9	-10,195.2	15.6	0.91	-0.90	-0.13	-171.57
21,598.0	89.53	180.13	11,617.4	-10,260.2	15.5	0.00	0.00	0.00	0.00

Database:	EDM5000	Local Co-ordinate Reference:	Well Pine Straw 101H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3268.0usft
Project:	PIN/DOG	MD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	North Reference:	Grid
Well:	Pine Straw 101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Final Survey		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
70.0	0.40	181.00	70.0	-0.2	0.0	0.2	0.57	0.57	0.00
100.0	0.40	166.01	100.0	-0.4	0.0	0.4	0.35	-0.02	-49.96
179.0	0.50	133.00	179.0	-0.9	0.3	0.9	0.35	0.13	-41.79
200.0	0.42	137.54	200.0	-1.1	0.5	1.1	0.44	-0.40	21.62
266.0	0.20	176.00	266.0	-1.4	0.6	1.4	0.44	-0.33	58.27
300.0	0.19	186.65	300.0	-1.5	0.6	1.5	0.11	-0.02	31.31
370.0	0.20	209.00	370.0	-1.7	0.5	1.7	0.11	0.01	31.93
400.0	0.27	186.66	400.0	-1.8	0.5	1.8	0.39	0.24	-74.48
495.0	0.60	163.00	495.0	-2.5	0.6	2.5	0.39	0.34	-24.90
500.0	0.59	162.82	500.0	-2.6	0.7	2.6	0.22	-0.21	-3.57
590.0	0.40	158.00	590.0	-3.3	0.9	3.3	0.22	-0.21	-5.36
600.0	0.35	164.65	600.0	-3.4	0.9	3.4	0.65	-0.48	66.48
686.0	0.40	260.00	686.0	-3.7	0.7	3.7	0.65	0.06	110.87
700.0	0.37	255.44	700.0	-3.7	0.6	3.7	0.29	-0.20	-32.59
800.0	0.29	204.53	800.0	-4.0	0.2	4.0	0.29	-0.08	-50.91
810.0	0.30	199.00	810.0	-4.1	0.2	4.1	0.29	0.07	-55.29
900.0	1.07	184.18	900.0	-5.1	0.0	5.1	0.87	0.85	-16.47
904.0	1.10	184.00	904.0	-5.2	0.0	5.2	0.87	0.86	-4.44
936.0	1.10	202.00	936.0	-5.8	-0.1	5.8	1.08	0.00	56.25
999.0	1.20	194.00	999.0	-7.0	-0.5	7.0	0.30	0.16	-12.70
1,000.0	1.19	194.11	1,000.0	-7.0	-0.5	7.0	0.55	-0.50	10.89
1,061.0	0.90	203.00	1,060.9	-8.1	-0.8	8.1	0.55	-0.48	14.58
1,100.0	0.99	192.21	1,099.9	-8.7	-1.0	8.7	0.51	0.24	-27.67
1,189.0	1.30	175.00	1,188.9	-10.4	-1.1	10.4	0.51	0.34	-19.33
1,200.0	1.32	174.48	1,199.9	-10.7	-1.1	10.7	0.23	0.21	-4.77
1,284.0	1.50	171.00	1,283.9	-12.7	-0.8	12.7	0.23	0.21	-4.14
1,300.0	1.68	191.20	1,299.9	-13.2	-0.8	13.2	3.66	1.12	126.24
1,311.0	1.90	202.00	1,310.9	-13.5	-0.9	13.5	3.66	2.00	98.20
1,345.0	1.20	206.00	1,344.9	-14.3	-1.3	14.3	2.08	-2.06	11.76
1,397.0	0.90	179.00	1,396.9	-15.2	-1.5	15.2	1.10	-0.58	-51.92
1,400.0	0.91	178.59	1,399.9	-15.3	-1.5	15.3	0.38	0.31	-13.62
1,459.0	1.10	172.00	1,458.9	-16.3	-1.4	16.3	0.38	0.32	-11.17
1,500.0	1.36	159.46	1,499.8	-17.2	-1.2	17.1	0.90	0.63	-30.59
1,520.0	1.50	155.00	1,519.8	-17.6	-1.0	17.6	0.90	0.71	-22.28
1,568.0	0.78	172.22	1,567.8	-18.5	-0.7	18.5	1.64	-1.50	35.88
1,600.0	0.67	167.88	1,599.8	-18.9	-0.6	18.9	0.38	-0.34	-13.55
1,631.0	0.57	162.13	1,630.8	-19.2	-0.6	19.2	0.38	-0.33	-18.56
1,700.0	1.25	139.50	1,699.8	-20.1	0.0	20.1	1.09	0.98	-32.80
1,726.0	1.52	136.38	1,725.8	-20.6	0.5	20.6	1.09	1.05	-11.99
1,800.0	0.52	128.69	1,799.8	-21.5	1.4	21.5	1.36	-1.35	-10.39
1,821.0	0.25	115.34	1,820.8	-21.6	1.5	21.6	1.36	-1.30	-63.57
1,900.0	0.43	333.01	1,899.8	-21.4	1.5	21.4	0.82	0.23	-180.17
1,917.0	0.57	329.70	1,916.8	-21.3	1.5	21.3	0.82	0.80	-19.45
2,000.0	0.79	290.70	1,999.8	-20.7	0.7	20.7	0.60	0.26	-46.99
2,012.0	0.84	287.16	2,011.8	-20.7	0.6	20.7	0.60	0.43	-29.50
2,100.0	0.98	300.93	2,099.8	-20.1	-0.7	20.1	0.29	0.16	15.65
2,107.0	0.99	301.85	2,106.8	-20.0	-0.8	20.0	0.29	0.18	13.15
2,200.0	0.82	314.11	2,199.8	-19.1	-2.0	19.1	0.27	-0.18	13.18
2,203.0	0.82	314.58	2,202.8	-19.1	-2.0	19.1	0.27	-0.15	15.79
2,299.0	0.70	323.55	2,298.8	-18.1	-2.8	18.1	0.18	-0.13	9.34
2,300.0	0.70	323.62	2,299.8	-18.1	-2.8	18.1	0.08	0.00	6.64
2,394.0	0.70	329.87	2,393.7	-17.2	-3.5	17.2	0.08	0.00	6.65
2,400.0	0.70	331.12	2,399.7	-17.1	-3.5	17.1	0.27	0.08	20.82

Database:	EDM5000	Local Co-ordinate Reference:	Well Pine Straw 101H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3268.0usft
Project:	PIN/DOG	MD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	North Reference:	Grid
Well:	Pine Straw 101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Final Survey		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,489.0	0.81	347.35	2,488.7	-16.0	-3.9	16.0	0.27	0.12	18.24
2,500.0	0.82	350.23	2,499.7	-15.9	-3.9	15.9	0.38	0.05	26.21
2,583.0	0.92	9.75	2,582.7	-14.6	-3.9	14.6	0.38	0.13	23.51
2,600.0	0.94	9.73	2,599.7	-14.4	-3.9	14.3	0.12	0.12	-0.10
2,678.0	1.03	9.66	2,677.7	-13.0	-3.7	13.0	0.12	0.12	-0.09
2,700.0	1.05	10.27	2,699.7	-12.6	-3.6	12.6	0.10	0.08	2.79
2,774.0	1.11	12.19	2,773.7	-11.3	-3.3	11.3	0.10	0.08	2.59
2,800.0	1.15	12.47	2,799.7	-10.8	-3.2	10.8	0.16	0.16	1.06
2,870.0	1.26	13.12	2,869.7	-9.3	-2.9	9.3	0.16	0.16	0.93
2,900.0	1.31	18.11	2,899.7	-8.7	-2.7	8.7	0.41	0.16	16.63
2,964.0	1.44	27.45	2,963.7	-7.3	-2.1	7.3	0.41	0.21	14.60
3,000.0	1.60	30.93	2,999.6	-6.4	-1.6	6.4	0.52	0.45	9.67
3,057.0	1.87	35.18	3,056.6	-5.0	-0.7	5.0	0.52	0.47	7.45
3,100.0	1.98	37.23	3,099.6	-3.8	0.2	3.8	0.29	0.25	4.77
3,153.0	2.11	39.47	3,152.6	-2.4	1.3	2.4	0.29	0.25	4.23
3,200.0	2.19	41.67	3,199.5	-1.0	2.5	1.0	0.25	0.18	4.68
3,248.0	2.28	43.75	3,247.5	0.4	3.8	-0.4	0.25	0.18	4.33
3,300.0	2.45	46.01	3,299.4	1.9	5.3	-1.9	0.38	0.33	4.35
3,343.0	2.60	47.65	3,342.4	3.2	6.7	-3.2	0.38	0.34	3.81
3,400.0	2.68	53.98	3,399.3	4.8	8.7	-4.8	0.53	0.14	11.10
3,438.0	2.75	57.96	3,437.3	5.8	10.2	-5.8	0.53	0.19	10.48
3,500.0	2.20	56.22	3,499.2	7.3	12.4	-7.3	0.89	-0.89	-2.80
3,533.0	1.91	54.89	3,532.2	8.0	13.4	-7.9	0.89	-0.88	-4.04
3,600.0	1.44	35.40	3,599.2	9.3	14.8	-9.3	1.09	-0.70	-29.08
3,627.0	1.32	24.19	3,626.2	9.8	15.1	-9.8	1.09	-0.44	-41.54
3,700.0	1.36	16.33	3,699.2	11.4	15.7	-11.4	0.26	0.06	-10.77
3,722.0	1.38	14.07	3,721.2	12.0	15.9	-11.9	0.26	0.08	-10.27
3,800.0	1.43	1.88	3,799.1	13.8	16.1	-13.8	0.39	0.07	-15.63
3,816.0	1.45	359.52	3,815.1	14.2	16.1	-14.2	0.39	0.11	-14.76
3,900.0	1.15	350.20	3,899.1	16.1	16.0	-16.1	0.43	-0.35	-11.10
3,910.0	1.12	348.77	3,909.1	16.3	15.9	-16.3	0.43	-0.33	-14.30
4,000.0	0.94	316.31	3,999.1	17.7	15.3	-17.7	0.67	-0.20	-36.07
4,005.0	0.94	314.27	4,004.1	17.8	15.2	-17.8	0.67	0.01	-40.72
4,100.0	0.83	316.09	4,099.1	18.8	14.2	-18.8	0.12	-0.11	1.91
4,101.0	0.83	316.11	4,100.1	18.8	14.1	-18.8	0.12	-0.11	2.17
4,195.0	0.94	317.39	4,194.1	19.9	13.2	-19.9	0.12	0.12	1.36
4,200.0	0.91	317.97	4,199.1	20.0	13.1	-19.9	0.55	-0.52	11.69
4,290.0	0.48	339.04	4,289.1	20.8	12.5	-20.8	0.55	-0.48	23.41
4,300.0	0.63	321.51	4,299.1	20.9	12.4	-20.9	2.22	1.47	-175.29
4,400.0	2.73	289.53	4,399.0	22.1	9.9	-22.1	2.22	2.10	-31.98
4,480.0	2.87	287.15	4,478.9	23.4	6.1	-23.4	0.23	0.18	-2.98
4,500.0	2.68	284.83	4,498.9	23.6	5.2	-23.6	1.09	-0.93	-11.59
4,576.0	2.03	272.28	4,574.8	24.1	2.1	-24.1	1.09	-0.86	-16.51
4,600.0	1.96	269.63	4,598.8	24.2	1.3	-24.2	0.48	-0.28	-11.04
4,671.0	1.79	260.71	4,669.8	24.0	-1.0	-24.0	0.48	-0.24	-12.56
4,700.0	1.67	262.93	4,698.8	23.8	-1.9	-23.9	0.49	-0.43	7.66
4,765.0	1.40	269.31	4,763.7	23.7	-3.6	-23.7	0.49	-0.41	9.81
4,800.0	1.65	275.68	4,798.7	23.8	-4.5	-23.8	0.87	0.72	18.20
4,860.0	2.12	282.90	4,858.7	24.1	-6.5	-24.1	0.87	0.78	12.03
4,900.0	2.19	288.37	4,898.7	24.5	-7.9	-24.5	0.55	0.18	13.68
4,954.0	2.32	295.13	4,952.6	25.3	-9.9	-25.3	0.55	0.24	12.51
5,000.0	2.31	297.23	4,998.6	26.1	-11.6	-26.1	0.18	-0.01	4.56
5,049.0	2.31	299.47	5,047.5	27.1	-13.3	-27.1	0.18	-0.01	4.58
5,100.0	2.42	296.37	5,098.5	28.0	-15.2	-28.1	0.33	0.22	-6.08

Database:	EDM5000	Local Co-ordinate Reference:	Well Pine Straw 101H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3268.0usft
Project:	PIN/DOG	MD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	North Reference:	Grid
Well:	Pine Straw 101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Final Survey		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,144.0	2.52	293.92	5,142.5	28.8	-16.9	-28.9	0.33	0.23	-5.57
5,200.0	3.19	292.72	5,198.4	29.9	-19.4	-30.0	1.19	1.19	-2.13
5,239.0	3.65	292.15	5,237.3	30.8	-21.6	-30.9	1.19	1.19	-1.47
5,300.0	3.87	294.25	5,298.2	32.4	-25.3	-32.4	0.42	0.36	3.44
5,334.0	3.99	295.32	5,332.1	33.4	-27.4	-33.4	0.42	0.36	3.15
5,400.0	2.98	294.87	5,398.0	35.1	-31.0	-35.1	1.53	-1.53	-0.68
5,430.0	2.52	294.55	5,428.0	35.7	-32.3	-35.7	1.53	-1.53	-1.07
5,500.0	1.10	297.07	5,497.9	36.6	-34.3	-36.7	2.04	-2.03	3.60
5,526.0	0.57	301.21	5,523.9	36.8	-34.6	-36.9	2.04	-2.02	15.92
5,600.0	0.59	68.56	5,597.9	37.1	-34.6	-37.2	1.41	0.03	172.09
5,621.0	0.87	77.06	5,618.9	37.2	-34.3	-37.3	1.41	1.32	40.48
5,700.0	1.29	85.88	5,697.9	37.4	-32.9	-37.5	0.57	0.53	11.16
5,716.0	1.38	87.00	5,713.9	37.4	-32.5	-37.5	0.57	0.55	7.01
5,800.0	1.37	104.23	5,797.9	37.2	-30.5	-37.3	0.49	-0.01	20.51
5,811.0	1.38	106.45	5,808.9	37.2	-30.3	-37.2	0.49	0.07	20.21
5,900.0	1.39	95.33	5,897.8	36.8	-28.2	-36.8	0.30	0.01	-12.49
5,907.0	1.39	94.47	5,904.8	36.8	-28.0	-36.8	0.30	0.04	-12.32
6,000.0	1.46	103.60	5,997.8	36.4	-25.7	-36.4	0.25	0.07	9.82
6,002.0	1.46	103.79	5,999.8	36.4	-25.7	-36.4	0.25	0.09	9.31
6,097.0	1.40	99.46	6,094.8	35.9	-23.3	-35.9	0.13	-0.06	-4.56
6,100.0	1.40	99.55	6,097.8	35.9	-23.3	-35.9	0.07	0.00	3.04
6,192.0	1.40	102.35	6,189.7	35.5	-21.1	-35.5	0.07	0.00	3.04
6,200.0	1.41	102.41	6,197.7	35.4	-20.9	-35.5	0.17	0.17	0.72
6,287.0	1.56	102.97	6,284.7	34.9	-18.7	-35.0	0.17	0.17	0.65
6,300.0	1.55	103.74	6,297.7	34.8	-18.3	-34.9	0.18	-0.07	5.94
6,382.0	1.50	108.81	6,379.7	34.2	-16.2	-34.3	0.18	-0.06	6.18
6,400.0	1.55	110.35	6,397.7	34.1	-15.8	-34.1	0.37	0.29	8.57
6,477.0	1.79	115.89	6,474.6	33.2	-13.7	-33.2	0.37	0.31	7.19
6,500.0	1.83	116.72	6,497.6	32.9	-13.1	-32.9	0.19	0.16	3.62
6,572.0	1.94	119.13	6,569.6	31.8	-11.0	-31.8	0.19	0.16	3.34
6,600.0	1.87	118.90	6,597.6	31.3	-10.2	-31.3	0.26	-0.26	-0.82
6,668.0	1.69	118.26	6,665.5	30.3	-8.3	-30.3	0.26	-0.26	-0.94
6,700.0	1.65	119.96	6,697.5	29.8	-7.5	-29.9	0.20	-0.13	5.33
6,763.0	1.57	123.58	6,760.5	28.9	-6.0	-28.9	0.20	-0.12	5.74
6,800.0	1.59	122.77	6,797.5	28.4	-5.1	-28.4	0.08	0.05	-2.18
6,858.0	1.62	121.55	6,855.5	27.5	-3.8	-27.5	0.08	0.05	-2.11
6,900.0	1.64	122.00	6,897.5	26.9	-2.8	-26.9	0.05	0.04	1.08
6,954.0	1.66	122.57	6,951.4	26.0	-1.4	-26.0	0.05	0.04	1.05
7,000.0	1.71	117.92	6,997.4	25.4	-0.3	-25.4	0.31	0.10	-10.10
7,049.0	1.77	113.28	7,046.4	24.7	1.1	-24.7	0.31	0.13	-9.48
7,100.0	1.81	113.96	7,097.4	24.1	2.5	-24.1	0.08	0.07	1.33
7,144.0	1.84	114.52	7,141.3	23.5	3.8	-23.5	0.08	0.07	1.28
7,200.0	1.85	115.69	7,197.3	22.7	5.4	-22.7	0.07	0.01	2.09
7,239.0	1.85	116.50	7,236.3	22.2	6.6	-22.2	0.07	0.01	2.08
7,300.0	1.96	115.32	7,297.3	21.3	8.4	-21.3	0.19	0.18	-1.93
7,334.0	2.02	114.72	7,331.2	20.8	9.5	-20.8	0.19	0.18	-1.77
7,400.0	1.72	117.44	7,397.2	19.9	11.4	-19.8	0.47	-0.45	4.12
7,430.0	1.59	119.01	7,427.2	19.4	12.2	-19.4	0.47	-0.44	5.23
7,500.0	1.55	134.56	7,497.2	18.3	13.7	-18.3	0.61	-0.05	22.22
7,525.0	1.57	140.13	7,522.2	17.8	14.1	-17.8	0.61	0.06	22.26
7,600.0	1.48	136.17	7,597.1	16.3	15.5	-16.3	0.18	-0.12	-5.28
7,620.0	1.46	135.04	7,617.1	15.9	15.8	-15.9	0.18	-0.11	-5.67
7,700.0	1.40	142.91	7,697.1	14.4	17.1	-14.4	0.26	-0.08	9.84
7,716.0	1.39	144.56	7,713.1	14.1	17.4	-14.1	0.26	-0.06	10.30

Database:	EDM5000	Local Co-ordinate Reference:	Well Pine Straw 101H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3268.0usft
Project:	PIN/DOG	MD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	North Reference:	Grid
Well:	Pine Straw 101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Final Survey		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,800.0	1.33	127.63	7,797.1	12.7	18.7	-12.7	0.48	-0.07	-20.15
7,811.0	1.33	125.35	7,808.1	12.6	18.9	-12.5	0.48	0.01	-20.76
7,900.0	1.04	132.15	7,897.0	11.4	20.4	-11.4	0.36	-0.32	7.64
7,907.0	1.02	132.85	7,904.0	11.3	20.5	-11.3	0.36	-0.31	9.94
8,000.0	1.03	135.77	7,997.0	10.2	21.7	-10.1	0.06	0.01	3.14
8,002.0	1.03	135.83	7,999.0	10.1	21.7	-10.1	0.06	0.01	3.11
8,097.0	0.98	138.23	8,094.0	8.9	22.8	-8.9	0.07	-0.05	2.53
8,100.0	0.97	138.78	8,097.0	8.9	22.9	-8.9	0.52	-0.42	18.32
8,192.0	0.65	165.11	8,189.0	7.8	23.5	-7.8	0.52	-0.35	28.62
8,200.0	0.68	168.07	8,197.0	7.7	23.5	-7.7	0.61	0.43	36.95
8,288.0	1.13	187.11	8,285.0	6.3	23.5	-6.3	0.61	0.51	21.64
8,300.0	1.11	186.45	8,297.0	6.1	23.5	-6.1	0.22	-0.19	-5.53
8,383.0	0.95	180.98	8,380.0	4.6	23.4	-4.6	0.22	-0.19	-6.59
8,400.0	0.93	180.21	8,397.0	4.3	23.4	-4.3	0.13	-0.11	-4.53
8,478.0	0.85	176.26	8,475.0	3.1	23.4	-3.1	0.13	-0.10	-5.06
8,500.0	0.83	172.56	8,497.0	2.8	23.5	-2.8	0.27	-0.10	-16.80
8,574.0	0.78	158.90	8,571.0	1.8	23.7	-1.8	0.27	-0.06	-18.47
8,600.0	0.75	154.41	8,597.0	1.5	23.9	-1.5	0.27	-0.13	-17.25
8,669.0	0.68	140.64	8,666.0	0.8	24.3	-0.7	0.27	-0.09	-19.96
8,700.0	0.68	136.77	8,696.9	0.5	24.5	-0.5	0.15	-0.01	-12.49
8,764.0	0.68	128.75	8,760.9	0.0	25.1	0.1	0.15	0.01	-12.53
8,800.0	0.65	125.94	8,796.9	-0.3	25.4	0.3	0.12	-0.08	-7.82
8,859.0	0.61	120.79	8,855.9	-0.6	26.0	0.7	0.12	-0.07	-8.72
8,900.0	0.58	100.47	8,896.9	-0.8	26.4	0.8	0.52	-0.08	-49.56
8,954.0	0.65	75.05	8,950.9	-0.8	26.9	0.8	0.52	0.13	-47.07
9,000.0	0.68	74.00	8,996.9	-0.6	27.4	0.7	0.07	0.06	-2.29
9,050.0	0.71	72.95	9,046.9	-0.4	28.0	0.5	0.07	0.06	-2.09
9,100.0	0.96	71.41	9,096.9	-0.2	28.7	0.3	0.50	0.50	-3.07
9,144.0	1.18	70.60	9,140.9	0.1	29.5	0.0	0.50	0.50	-1.85
9,200.0	1.08	74.83	9,196.9	0.4	30.6	-0.3	0.23	-0.17	7.55
9,239.0	1.02	78.23	9,235.9	0.6	31.2	-0.5	0.23	-0.16	8.73
9,300.0	1.19	72.59	9,296.9	0.9	32.4	-0.8	0.33	0.28	-9.24
9,335.0	1.29	70.04	9,331.9	1.1	33.1	-1.0	0.33	0.29	-7.30
9,400.0	1.70	76.59	9,396.9	1.6	34.7	-1.5	0.69	0.64	10.08
9,430.0	1.90	78.64	9,426.8	1.8	35.7	-1.7	0.69	0.65	6.83
9,500.0	1.73	77.94	9,496.8	2.2	37.8	-2.2	0.24	-0.24	-1.00
9,526.0	1.67	77.64	9,522.8	2.4	38.6	-2.3	0.24	-0.24	-1.14
9,600.0	1.77	75.47	9,596.8	2.9	40.7	-2.8	0.16	0.13	-2.93
9,622.0	1.80	74.87	9,618.7	3.1	41.4	-3.0	0.16	0.14	-2.72
9,700.0	1.27	76.56	9,696.7	3.6	43.4	-3.5	0.69	-0.68	2.17
9,717.0	1.15	77.14	9,713.7	3.7	43.8	-3.6	0.69	-0.68	3.40
9,800.0	0.56	78.91	9,796.7	3.9	45.0	-3.9	0.71	-0.71	2.13
9,812.0	0.48	79.52	9,808.7	4.0	45.1	-3.9	0.71	-0.70	5.10
9,900.0	0.46	27.32	9,896.7	4.3	45.6	-4.3	0.47	-0.03	-59.32
9,907.0	0.47	23.64	9,903.7	4.4	45.6	-4.3	0.47	0.20	-52.58
10,000.0	0.57	323.88	9,996.7	5.1	45.5	-5.0	0.57	0.11	-64.26
10,002.0	0.58	323.02	9,998.7	5.1	45.5	-5.1	0.57	0.36	-43.13
10,098.0	0.57	21.89	10,094.7	6.0	45.4	-5.9	0.59	-0.01	61.32
10,100.0	0.57	22.58	10,096.7	6.0	45.4	-5.9	0.36	0.11	34.42
10,194.0	0.75	47.99	10,190.7	6.8	46.0	-6.8	0.36	0.19	27.03
10,200.0	0.75	48.54	10,196.7	6.9	46.1	-6.8	0.13	-0.05	9.15
10,289.0	0.71	57.17	10,285.7	7.6	47.0	-7.5	0.13	-0.04	9.70
10,300.0	0.56	59.89	10,296.7	7.6	47.1	-7.6	1.42	-1.39	24.75
10,384.0	0.66	216.93	10,380.7	7.4	47.2	-7.4	1.42	0.12	186.95

Database:	EDM5000	Local Co-ordinate Reference:	Well Pine Straw 101H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3268.0usft
Project:	PIN/DOG	MD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	North Reference:	Grid
Well:	Pine Straw 101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Final Survey		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,400.0	0.58	216.64	10,396.7	7.3	47.1	-7.2	0.47	-0.47	-1.79
10,480.0	0.21	212.14	10,476.7	6.9	46.7	-6.8	0.47	-0.47	-5.63
10,500.0	0.21	210.33	10,496.7	6.8	46.7	-6.7	0.03	0.01	-9.05
10,575.0	0.22	203.84	10,571.7	6.5	46.6	-6.5	0.03	0.01	-8.65
10,600.0	0.17	227.13	10,596.7	6.5	46.5	-6.4	0.37	-0.20	93.15
10,601.0	0.17	228.30	10,597.7	6.5	46.5	-6.4	0.37	-0.12	117.26
10,700.0	0.63	209.16	10,696.7	5.9	46.1	-5.8	0.47	0.46	-19.34
10,705.0	0.65	208.91	10,701.7	5.8	46.1	-5.8	0.47	0.47	-4.96
10,800.0	0.35	152.53	10,796.7	5.1	46.0	-5.1	0.57	-0.32	-59.35
10,895.0	0.66	89.16	10,891.7	4.9	46.7	-4.8	0.62	0.33	-66.71
10,900.0	0.69	113.31	10,896.7	4.9	46.7	-4.8	5.66	0.53	483.05
11,000.0	5.90	179.67	10,996.5	-0.5	47.3	0.6	5.66	5.21	66.36
11,048.0	8.60	181.69	11,044.1	-6.6	47.2	6.6	5.66	5.63	4.21
11,080.0	11.14	182.66	11,075.6	-12.1	47.0	12.1	7.95	7.94	3.03
11,100.0	14.02	182.64	11,095.1	-16.4	46.8	16.5	14.42	14.42	-0.08
11,125.0	17.63	182.63	11,119.2	-23.2	46.5	23.3	14.42	14.42	-0.05
11,175.0	19.95	182.39	11,166.5	-39.3	45.8	39.4	4.64	4.64	-0.48
11,200.0	21.03	182.52	11,189.9	-48.0	45.4	48.1	4.31	4.31	0.53
11,220.0	21.89	182.62	11,208.5	-55.4	45.1	55.4	4.31	4.31	0.49
11,270.0	27.10	183.95	11,254.0	-76.0	43.9	76.1	10.48	10.42	2.66
11,300.0	30.30	185.12	11,280.3	-90.4	42.7	90.5	10.84	10.68	3.91
11,315.0	31.91	185.63	11,293.2	-98.1	42.0	98.2	10.84	10.70	3.37
11,366.0	36.08	187.02	11,335.5	-126.4	38.8	126.5	8.32	8.18	2.73
11,400.0	38.26	187.48	11,362.5	-146.8	36.2	146.9	6.45	6.40	1.35
11,411.0	38.96	187.62	11,371.1	-153.6	35.3	153.7	6.45	6.40	1.27
11,461.0	41.03	187.57	11,409.4	-185.5	31.1	185.5	4.14	4.14	-0.10
11,493.0	43.84	188.29	11,433.1	-206.9	28.1	206.9	8.91	8.78	2.25
11,500.0	44.82	188.31	11,438.1	-211.7	27.4	211.7	14.03	14.03	0.32
11,523.0	48.05	188.38	11,453.9	-228.2	25.0	228.2	14.03	14.03	0.29
11,555.0	52.25	188.48	11,474.4	-252.5	21.4	252.5	13.13	13.13	0.31
11,587.0	57.47	188.40	11,492.8	-278.4	17.5	278.4	16.31	16.31	-0.25
11,600.0	58.73	188.54	11,499.7	-289.3	15.9	289.3	9.70	9.66	1.08
11,619.0	60.56	188.74	11,509.3	-305.5	13.5	305.5	9.70	9.66	1.05
11,651.0	63.76	188.98	11,524.2	-333.4	9.1	333.5	10.02	10.00	0.75
11,682.0	68.14	187.96	11,536.9	-361.4	4.9	361.4	14.44	14.13	-3.29
11,697.6	70.00	187.70	11,542.5	-375.9	2.9	375.9	12.00	11.90	-1.64
PS101 As Drilled FTP									
11,700.0	70.28	187.67	11,543.3	-378.1	2.6	378.1	12.00	11.90	-1.62
11,745.0	75.64	186.96	11,556.4	-420.8	-2.8	420.8	12.00	11.91	-1.57
11,777.0	79.75	186.54	11,563.3	-451.8	-6.5	451.8	12.91	12.84	-1.31
11,800.0	82.56	185.05	11,566.8	-474.4	-8.8	474.4	13.79	12.21	-6.49
11,840.0	87.45	182.49	11,570.3	-514.2	-11.4	514.1	13.79	12.23	-6.39
11,900.0	87.77	181.23	11,572.8	-574.1	-13.4	574.1	2.17	0.54	-2.10
11,955.0	88.07	180.07	11,574.8	-629.0	-14.0	629.0	2.17	0.54	-2.10
12,000.0	87.40	179.89	11,576.6	-674.0	-14.0	674.0	1.54	-1.48	-0.41
12,050.0	86.66	179.68	11,579.1	-723.9	-13.8	723.9	1.54	-1.48	-0.41
12,100.0	88.56	180.14	11,581.2	-773.9	-13.7	773.9	3.91	3.80	0.93
12,145.0	90.27	180.56	11,581.7	-818.9	-14.0	818.9	3.91	3.80	0.93
12,200.0	90.51	180.29	11,581.3	-873.9	-14.4	873.9	0.66	0.44	-0.50
12,241.0	90.69	180.08	11,580.9	-914.9	-14.5	914.9	0.66	0.44	-0.50
12,300.0	90.76	180.00	11,580.1	-973.9	-14.5	973.8	0.19	0.13	-0.14
12,336.0	90.81	179.95	11,579.6	-1,009.9	-14.5	1,009.8	0.19	0.13	-0.14
12,400.0	91.10	179.75	11,578.6	-1,073.9	-14.4	1,073.8	0.55	0.45	-0.31
12,432.0	91.24	179.65	11,577.9	-1,105.9	-14.2	1,105.8	0.55	0.45	-0.31

Database:	EDM5000	Local Co-ordinate Reference:	Well Pine Straw 101H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3268.0usft
Project:	PIN/DOG	MD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	North Reference:	Grid
Well:	Pine Straw 101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Final Survey		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,500.0	90.14	179.39	11,577.1	-1,173.8	-13.6	1,173.8	1.65	-1.61	-0.38
12,527.0	89.71	179.29	11,577.1	-1,200.8	-13.3	1,200.8	1.65	-1.61	-0.38
12,600.0	87.85	179.75	11,578.7	-1,273.8	-12.7	1,273.8	2.62	-2.55	0.63
12,622.0	87.29	179.89	11,579.6	-1,295.8	-12.6	1,295.8	2.62	-2.55	0.63
12,700.0	86.72	179.63	11,583.7	-1,373.7	-12.3	1,373.7	0.80	-0.73	-0.34
12,717.0	86.60	179.57	11,584.7	-1,390.7	-12.2	1,390.6	0.80	-0.73	-0.34
12,800.0	85.65	178.99	11,590.3	-1,473.5	-11.1	1,473.4	1.34	-1.15	-0.70
12,813.0	85.50	178.90	11,591.3	-1,486.4	-10.9	1,486.4	1.34	-1.15	-0.70
12,859.0	85.55	178.58	11,594.9	-1,532.3	-9.9	1,532.3	0.70	0.11	-0.70
12,900.0	87.11	178.99	11,597.5	-1,573.2	-9.0	1,573.2	3.94	3.82	1.00
12,908.0	87.42	179.07	11,597.9	-1,581.2	-8.9	1,581.2	3.94	3.82	1.00
12,955.0	87.56	179.22	11,600.0	-1,628.1	-8.2	1,628.1	0.44	0.30	0.32
13,000.0	89.53	179.29	11,601.1	-1,673.1	-7.6	1,673.1	4.39	4.38	0.15
13,002.0	89.62	179.29	11,601.1	-1,675.1	-7.6	1,675.1	4.39	4.38	0.15
13,040.0	89.40	179.44	11,601.4	-1,713.1	-7.2	1,713.1	0.70	-0.58	0.39
13,097.0	90.00	179.09	11,601.7	-1,770.1	-6.4	1,770.1	1.22	1.05	-0.61
13,100.0	90.14	179.11	11,601.7	-1,773.1	-6.4	1,773.1	4.54	4.51	0.55
13,190.0	94.19	179.60	11,598.3	-1,863.0	-5.4	1,863.0	4.54	4.51	0.55
13,200.0	94.17	179.63	11,597.6	-1,873.0	-5.3	1,873.0	0.40	-0.20	0.34
13,286.0	94.00	179.93	11,591.5	-1,958.8	-5.0	1,958.7	0.40	-0.20	0.34
13,300.0	93.72	180.05	11,590.5	-1,972.7	-5.0	1,972.7	2.21	-2.03	0.86
13,381.0	92.07	180.75	11,586.4	-2,053.6	-5.5	2,053.6	2.21	-2.03	0.86
13,400.0	91.64	181.11	11,585.8	-2,072.6	-5.8	2,072.6	2.95	-2.27	1.88
13,475.0	89.94	182.52	11,584.8	-2,147.5	-8.2	2,147.5	2.95	-2.27	1.88
13,500.0	88.82	182.62	11,585.1	-2,172.5	-9.3	2,172.5	4.49	-4.47	0.40
13,568.0	85.78	182.89	11,588.3	-2,240.4	-12.6	2,240.3	4.49	-4.47	0.40
13,600.0	85.66	183.20	11,590.7	-2,272.2	-14.3	2,272.2	1.03	-0.38	0.96
13,616.0	85.60	183.35	11,591.9	-2,288.2	-15.2	2,288.1	1.03	-0.37	0.96
13,664.0	85.46	181.23	11,595.6	-2,336.0	-17.1	2,335.9	4.41	-0.29	-4.42
13,700.0	85.62	179.93	11,598.4	-2,371.9	-17.5	2,371.8	3.62	0.44	-3.60
13,714.0	85.68	179.43	11,599.5	-2,385.8	-17.4	2,385.8	3.62	0.44	-3.60
13,759.0	87.52	177.48	11,602.2	-2,430.7	-16.2	2,430.7	5.95	4.09	-4.33
13,800.0	87.91	176.30	11,603.8	-2,471.6	-14.0	2,471.6	3.03	0.96	-2.88
13,809.0	88.00	176.04	11,604.1	-2,480.6	-13.4	2,480.6	3.03	0.96	-2.88
13,852.0	87.88	175.34	11,605.7	-2,523.4	-10.1	2,523.4	1.65	-0.28	-1.63
13,900.0	89.92	176.28	11,606.6	-2,571.3	-6.6	2,571.3	4.69	4.26	1.96
13,902.0	90.01	176.32	11,606.6	-2,573.3	-6.5	2,573.3	4.69	4.26	1.96
13,948.0	89.20	177.87	11,606.9	-2,619.2	-4.2	2,619.2	3.80	-1.76	3.37
13,998.0	88.75	178.93	11,607.8	-2,669.2	-2.8	2,669.2	2.30	-0.90	2.12
14,000.0	88.77	178.95	11,607.8	-2,671.2	-2.7	2,671.2	1.28	0.77	1.02
14,042.0	89.09	179.38	11,608.6	-2,713.2	-2.1	2,713.2	1.28	0.77	1.02
14,100.0	88.76	179.24	11,609.7	-2,771.2	-1.4	2,771.2	0.62	-0.56	-0.25
14,138.0	88.55	179.14	11,610.6	-2,809.2	-0.9	2,809.2	0.62	-0.56	-0.25
14,200.0	90.03	179.43	11,611.4	-2,871.2	-0.1	2,871.2	2.43	2.38	0.47
14,232.0	90.79	179.58	11,611.1	-2,903.2	0.2	2,903.2	2.43	2.38	0.47
14,300.0	89.02	179.93	11,611.2	-2,971.2	0.4	2,971.1	2.65	-2.60	0.52
14,326.0	88.35	180.07	11,611.8	-2,997.1	0.4	2,997.1	2.65	-2.60	0.52
14,400.0	87.82	180.09	11,614.3	-3,071.1	0.3	3,071.1	0.71	-0.71	0.03
14,420.0	87.68	180.10	11,615.1	-3,091.1	0.3	3,091.1	0.71	-0.71	0.03
14,500.0	90.19	180.93	11,616.6	-3,171.1	-0.4	3,171.1	3.30	3.14	1.03
14,514.0	90.63	181.07	11,616.5	-3,185.1	-0.7	3,185.1	3.30	3.14	1.03
14,600.0	91.50	181.92	11,614.9	-3,271.0	-2.9	3,271.0	1.41	1.01	0.99
14,608.0	91.58	182.00	11,614.7	-3,279.0	-3.2	3,279.0	1.41	1.01	0.99
14,700.0	89.93	181.17	11,613.5	-3,371.0	-5.7	3,370.9	2.01	-1.79	-0.91

Database:	EDM5000	Local Co-ordinate Reference:	Well Pine Straw 101H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3268.0usft
Project:	PIN/DOG	MD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	North Reference:	Grid
Well:	Pine Straw 101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Final Survey		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,704.0	89.86	181.13	11,613.5	-3,375.0	-5.8	3,374.9	2.01	-1.79	-0.91
14,797.0	85.93	179.15	11,616.9	-3,467.9	-6.0	3,467.9	4.73	-4.23	-2.13
14,800.0	85.96	179.09	11,617.1	-3,470.9	-6.0	3,470.9	2.15	1.05	-1.88
14,893.0	86.94	177.35	11,622.8	-3,563.6	-3.1	3,563.6	2.15	1.05	-1.87
14,900.0	87.24	177.41	11,623.2	-3,570.6	-2.8	3,570.6	4.43	4.35	0.82
14,989.0	91.12	178.14	11,624.5	-3,659.5	0.7	3,659.5	4.43	4.35	0.82
15,000.0	90.88	178.27	11,624.3	-3,670.5	1.0	3,670.5	2.47	-2.18	1.16
15,082.0	89.09	179.22	11,624.3	-3,752.5	2.8	3,752.5	2.47	-2.18	1.16
15,100.0	88.92	179.23	11,624.6	-3,770.5	3.1	3,770.5	0.97	-0.97	0.07
15,177.0	88.17	179.29	11,626.6	-3,847.5	4.1	3,847.5	0.97	-0.97	0.07
15,200.0	87.54	179.46	11,627.4	-3,870.4	4.3	3,870.4	2.82	-2.73	0.74
15,272.0	85.58	179.99	11,631.8	-3,942.3	4.6	3,942.3	2.82	-2.73	0.74
15,300.0	86.23	179.92	11,633.8	-3,970.2	4.7	3,970.2	2.32	2.31	-0.24
15,368.0	87.80	179.76	11,637.3	-4,038.1	4.9	4,038.1	2.32	2.31	-0.24
15,400.0	87.39	179.40	11,638.6	-4,070.1	5.1	4,070.1	1.70	-1.28	-1.12
15,463.0	86.58	178.70	11,642.0	-4,133.0	6.1	4,133.0	1.70	-1.28	-1.12
15,500.0	86.45	179.07	11,644.2	-4,169.9	6.9	4,169.9	1.07	-0.34	1.01
15,559.0	86.25	179.67	11,648.0	-4,228.8	7.5	4,228.8	1.07	-0.34	1.01
15,600.0	87.48	179.63	11,650.2	-4,269.8	7.7	4,269.8	3.00	3.00	-0.09
15,654.0	89.10	179.58	11,651.8	-4,323.7	8.1	4,323.7	3.00	3.00	-0.09
15,700.0	88.00	179.09	11,653.0	-4,369.7	8.7	4,369.7	2.62	-2.39	-1.06
15,749.0	86.83	178.57	11,655.2	-4,418.6	9.6	4,418.7	2.62	-2.39	-1.06
15,800.0	90.08	179.43	11,656.6	-4,469.6	10.5	4,469.6	6.58	6.36	1.68
15,845.0	92.94	180.18	11,655.4	-4,514.6	10.7	4,514.6	6.58	6.36	1.68
15,900.0	95.22	181.32	11,651.5	-4,569.4	10.0	4,569.5	4.63	4.14	2.08
15,940.0	96.87	182.16	11,647.3	-4,609.2	8.8	4,609.2	4.63	4.14	2.09
16,000.0	93.21	182.19	11,642.0	-4,668.9	6.5	4,668.9	6.09	-6.09	0.04
16,035.0	91.08	182.20	11,640.7	-4,703.9	5.2	4,703.9	6.09	-6.09	0.04
16,100.0	89.55	181.34	11,640.3	-4,768.8	3.2	4,768.8	2.69	-2.35	-1.32
16,130.0	88.85	180.95	11,640.7	-4,798.8	2.6	4,798.8	2.69	-2.35	-1.32
16,200.0	88.05	180.94	11,642.6	-4,868.8	1.4	4,868.8	1.15	-1.15	-0.02
16,225.0	87.76	180.93	11,643.5	-4,893.8	1.0	4,893.8	1.15	-1.15	-0.02
16,300.0	90.02	181.48	11,645.0	-4,968.7	-0.6	4,968.7	3.10	3.01	0.74
16,321.0	90.65	181.64	11,644.9	-4,989.7	-1.2	4,989.7	3.10	3.01	0.74
16,400.0	85.97	180.56	11,647.2	-5,068.6	-2.7	5,068.6	6.08	-5.93	-1.36
16,417.0	84.96	180.33	11,648.5	-5,085.6	-2.8	5,085.6	6.08	-5.93	-1.37
16,500.0	83.73	179.98	11,656.7	-5,168.2	-3.0	5,168.2	1.54	-1.48	-0.42
16,512.0	83.55	179.93	11,658.1	-5,180.1	-3.0	5,180.1	1.54	-1.48	-0.42
16,600.0	82.53	178.67	11,668.7	-5,267.5	-2.0	5,267.4	1.83	-1.16	-1.43
16,608.0	82.44	178.56	11,669.8	-5,275.4	-1.8	5,275.4	1.83	-1.15	-1.43
16,700.0	82.68	178.91	11,681.7	-5,366.6	0.2	5,366.6	0.46	0.26	0.39
16,704.0	82.69	178.93	11,682.2	-5,370.6	0.3	5,370.6	0.46	0.26	0.39
16,799.0	86.68	178.08	11,691.0	-5,465.1	2.8	5,465.1	4.29	4.20	-0.89
16,800.0	86.69	178.09	11,691.0	-5,466.1	2.8	5,466.1	1.85	1.48	1.11
16,893.0	88.07	179.12	11,695.3	-5,559.0	5.1	5,559.0	1.85	1.48	1.11
16,900.0	88.12	179.16	11,695.5	-5,566.0	5.2	5,566.0	0.86	0.69	0.51
16,988.0	88.73	179.60	11,697.9	-5,653.9	6.1	5,653.9	0.86	0.69	0.51
17,000.0	88.70	179.52	11,698.2	-5,665.9	6.2	5,665.9	0.67	-0.22	-0.63
17,083.0	88.52	179.00	11,700.2	-5,748.9	7.3	5,748.9	0.67	-0.22	-0.63
17,100.0	88.93	179.13	11,700.6	-5,765.9	7.6	5,765.9	2.55	2.43	0.76
17,178.0	90.83	179.72	11,700.8	-5,843.9	8.4	5,843.9	2.55	2.43	0.76
17,200.0	90.22	179.76	11,700.6	-5,865.9	8.5	5,865.9	2.78	-2.78	0.19
17,272.0	88.22	179.90	11,701.5	-5,937.9	8.7	5,937.9	2.78	-2.78	0.19
17,300.0	88.04	179.85	11,702.5	-5,965.8	8.7	5,965.9	0.67	-0.65	-0.17

Database:	EDM5000	Local Co-ordinate Reference:	Well Pine Straw 101H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3268.0usft
Project:	PIN/DOG	MD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	North Reference:	Grid
Well:	Pine Straw 101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Final Survey		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,367.0	87.60	179.74	11,705.0	-6,032.8	9.0	6,032.8	0.67	-0.65	-0.17
17,400.0	87.68	179.64	11,706.4	-6,065.8	9.2	6,065.8	0.39	0.24	-0.31
17,461.0	87.83	179.45	11,708.7	-6,126.7	9.6	6,126.7	0.39	0.24	-0.31
17,500.0	87.73	179.16	11,710.3	-6,165.7	10.1	6,165.7	0.79	-0.27	-0.74
17,555.0	87.58	178.75	11,712.5	-6,220.6	11.1	6,220.6	0.79	-0.27	-0.74
17,600.0	87.42	178.49	11,714.5	-6,265.6	12.2	6,265.6	0.68	-0.35	-0.59
17,649.0	87.25	178.20	11,716.8	-6,314.5	13.6	6,314.5	0.68	-0.35	-0.59
17,700.0	87.92	178.14	11,718.9	-6,365.4	15.2	6,365.4	1.32	1.32	-0.12
17,744.0	88.50	178.09	11,720.3	-6,409.4	16.7	6,409.4	1.32	1.32	-0.12
17,800.0	89.90	178.06	11,721.1	-6,465.3	18.6	6,465.4	2.50	2.49	-0.05
17,837.0	90.82	178.04	11,720.8	-6,502.3	19.8	6,502.3	2.50	2.49	-0.05
17,900.0	91.16	178.98	11,719.7	-6,565.3	21.5	6,565.3	1.58	0.54	1.48
17,932.0	91.33	179.45	11,719.0	-6,597.3	21.9	6,597.3	1.58	0.54	1.48
18,000.0	92.07	179.44	11,717.0	-6,665.2	22.6	6,665.3	1.08	1.08	-0.01
18,028.0	92.37	179.44	11,715.9	-6,693.2	22.8	6,693.3	1.08	1.08	-0.01
18,100.0	92.49	179.16	11,712.9	-6,765.2	23.7	6,765.2	0.42	0.17	-0.38
18,122.0	92.53	179.08	11,711.9	-6,787.1	24.0	6,787.2	0.42	0.17	-0.38
18,200.0	92.80	179.42	11,708.3	-6,865.0	25.1	6,865.1	0.55	0.35	0.43
18,217.0	92.86	179.49	11,707.5	-6,882.0	25.2	6,882.0	0.55	0.35	0.43
18,300.0	92.63	179.69	11,703.5	-6,964.9	25.8	6,965.0	0.37	-0.28	0.24
18,313.0	92.59	179.72	11,702.9	-6,977.9	25.9	6,977.9	0.37	-0.28	0.24
18,400.0	92.48	180.22	11,699.0	-7,064.8	25.9	7,064.9	0.59	-0.13	0.58
18,408.0	92.47	180.27	11,698.7	-7,072.8	25.9	7,072.8	0.59	-0.13	0.58
18,500.0	92.44	182.50	11,694.8	-7,164.7	23.7	7,164.7	2.42	-0.03	2.43
18,502.0	92.44	182.55	11,694.7	-7,166.7	23.6	7,166.7	2.42	-0.03	2.43
18,597.0	89.58	182.67	11,693.0	-7,261.6	19.3	7,261.6	3.01	-3.01	0.13
18,600.0	89.58	182.66	11,693.0	-7,264.6	19.1	7,264.6	0.47	0.07	-0.47
18,693.0	89.65	182.22	11,693.6	-7,357.5	15.2	7,357.5	0.47	0.07	-0.47
18,700.0	89.71	182.09	11,693.7	-7,364.5	14.9	7,364.5	1.98	0.84	-1.80
18,786.0	90.43	180.55	11,693.6	-7,450.4	12.9	7,450.5	1.98	0.84	-1.80
18,800.0	90.44	180.54	11,693.5	-7,464.4	12.8	7,464.5	0.11	0.04	-0.11
18,881.0	90.47	180.45	11,692.8	-7,545.4	12.1	7,545.5	0.11	0.04	-0.11
18,900.0	90.94	180.52	11,692.6	-7,564.4	11.9	7,564.5	2.49	2.46	0.36
18,976.0	92.81	180.79	11,690.1	-7,640.4	11.1	7,640.4	2.49	2.46	0.36
19,000.0	92.90	180.72	11,688.9	-7,664.4	10.7	7,664.4	0.47	0.35	-0.30
19,072.0	93.15	180.50	11,685.1	-7,736.3	10.0	7,736.3	0.47	0.35	-0.30
19,100.0	93.06	180.38	11,683.6	-7,764.2	9.8	7,764.2	0.54	-0.31	-0.44
19,167.0	92.86	180.08	11,680.1	-7,831.1	9.5	7,831.1	0.54	-0.31	-0.44
19,200.0	92.97	180.12	11,678.5	-7,864.1	9.4	7,864.1	0.34	0.32	0.12
19,261.0	93.16	180.19	11,675.2	-7,925.0	9.3	7,925.0	0.34	0.32	0.12
19,300.0	92.80	179.98	11,673.2	-7,963.9	9.2	7,963.9	1.07	-0.92	-0.55
19,356.0	92.29	179.67	11,670.7	-8,019.9	9.4	8,019.9	1.07	-0.92	-0.55
19,400.0	92.04	179.92	11,669.0	-8,063.9	9.6	8,063.9	0.82	-0.58	0.58
19,451.0	91.74	180.22	11,667.4	-8,114.8	9.5	8,114.8	0.82	-0.58	0.58
19,500.0	91.83	180.17	11,665.8	-8,163.8	9.3	8,163.8	0.21	0.19	-0.10
19,547.0	91.92	180.12	11,664.3	-8,210.8	9.2	8,210.8	0.21	0.19	-0.10
19,600.0	92.56	180.01	11,662.2	-8,263.7	9.1	8,263.7	1.22	1.20	-0.20
19,642.0	93.06	179.93	11,660.2	-8,305.7	9.2	8,305.7	1.22	1.20	-0.20
19,700.0	90.80	179.63	11,658.2	-8,363.6	9.4	8,363.7	3.94	-3.90	-0.52
19,735.0	89.43	179.45	11,658.1	-8,398.6	9.7	8,398.7	3.94	-3.90	-0.52
19,800.0	89.48	179.22	11,658.8	-8,463.6	10.4	8,463.6	0.36	0.08	-0.35
19,830.0	89.51	179.12	11,659.0	-8,493.6	10.9	8,493.6	0.36	0.08	-0.35
19,900.0	89.18	179.12	11,659.8	-8,563.6	11.9	8,563.6	0.47	-0.47	0.00
19,925.0	89.06	179.12	11,660.2	-8,588.6	12.3	8,588.6	0.47	-0.47	0.00

Database:	EDM5000	Local Co-ordinate Reference:	Well Pine Straw 101H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3268.0usft
Project:	PIN/DOG	MD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	North Reference:	Grid
Well:	Pine Straw 101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Final Survey		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,000.0	89.69	179.40	11,661.0	-8,663.6	13.3	8,663.6	0.92	0.84	0.38
20,021.0	89.87	179.48	11,661.1	-8,684.6	13.5	8,684.6	0.92	0.84	0.37
20,100.0	89.28	179.42	11,661.7	-8,763.6	14.2	8,763.6	0.75	-0.74	-0.07
20,115.0	89.17	179.41	11,661.9	-8,778.6	14.4	8,778.6	0.75	-0.74	-0.07
20,200.0	89.57	179.11	11,662.8	-8,863.6	15.5	8,863.6	0.59	0.47	-0.36
20,210.0	89.62	179.07	11,662.9	-8,873.6	15.7	8,873.6	0.59	0.47	-0.36
20,300.0	93.65	179.03	11,660.3	-8,963.5	17.1	8,963.5	4.47	4.47	-0.04
20,305.0	93.87	179.03	11,660.0	-8,968.5	17.2	8,968.5	4.47	4.47	-0.04
20,400.0	94.19	179.14	11,653.3	-9,063.3	18.7	9,063.3	0.35	0.33	0.11
20,401.0	94.19	179.14	11,653.3	-9,064.3	18.8	9,064.3	0.35	0.33	0.11
20,495.0	94.36	179.07	11,646.2	-9,158.0	20.2	9,158.0	0.20	0.18	-0.07
20,500.0	94.34	179.13	11,645.9	-9,163.0	20.3	9,163.0	1.18	-0.38	1.12
20,590.0	94.00	180.13	11,639.3	-9,252.7	20.9	9,252.7	1.18	-0.38	1.12
20,600.0	93.92	180.18	11,638.6	-9,262.7	20.9	9,262.7	0.93	-0.79	0.50
20,685.0	93.25	180.60	11,633.3	-9,347.5	20.3	9,347.5	0.93	-0.79	0.49
20,700.0	93.10	180.57	11,632.5	-9,362.5	20.1	9,362.5	1.00	-0.99	-0.17
20,780.0	92.31	180.44	11,628.7	-9,442.4	19.4	9,442.4	1.00	-0.99	-0.17
20,800.0	92.26	180.47	11,627.9	-9,462.4	19.3	9,462.4	0.32	-0.27	0.16
20,875.0	92.05	180.59	11,625.1	-9,537.3	18.6	9,537.4	0.32	-0.27	0.16
20,900.0	91.96	180.52	11,624.2	-9,562.3	18.3	9,562.3	0.47	-0.38	-0.27
20,970.0	91.69	180.33	11,622.0	-9,632.3	17.8	9,632.3	0.47	-0.38	-0.27
21,000.0	91.55	180.31	11,621.1	-9,662.3	17.6	9,662.3	0.48	-0.47	-0.05
21,065.0	91.24	180.28	11,619.6	-9,727.3	17.3	9,727.3	0.48	-0.47	-0.05
21,100.0	91.08	180.34	11,618.9	-9,762.2	17.1	9,762.3	0.49	-0.47	0.16
21,159.0	90.80	180.43	11,617.9	-9,821.2	16.7	9,821.3	0.49	-0.47	0.16
21,200.0	90.59	180.35	11,617.4	-9,862.2	16.4	9,862.2	0.55	-0.52	-0.20
21,254.0	90.31	180.24	11,617.0	-9,916.2	16.2	9,916.2	0.55	-0.52	-0.20
21,300.0	90.07	180.08	11,616.8	-9,962.2	16.0	9,962.2	0.63	-0.52	-0.35
21,350.0	89.81	179.90	11,616.9	-10,012.2	16.0	10,012.2	0.63	-0.52	-0.35
21,400.0	90.09	180.09	11,616.9	-10,062.2	16.0	10,062.2	0.68	0.57	0.38
21,443.0	90.34	180.25	11,616.7	-10,105.2	15.9	10,105.2	0.68	0.57	0.38
21,500.0	89.83	180.17	11,616.7	-10,162.2	15.7	10,162.2	0.91	-0.90	-0.13
21,533.0	89.53	180.13	11,616.9	-10,195.2	15.6	10,195.2	0.91	-0.90	-0.13
PS101 As Drilled LTP									
21,598.0	89.53	180.13	11,617.4	-10,260.2	15.5	10,260.2	0.00	0.00	0.00
PS101 As Drilled BHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PS101 As Drilled FTP - hit/miss target - Shape - Point	0.00	0.00	11,542.5	-375.9	2.9	425,318.82	862,712.33	32° 9' 54.060 N	103° 17' 41.139 W
PS101 As Drilled LTP - plan misses target center by 22.8usft at 21533.0usft MD (11616.9 TVD, -10195.2 N, 15.6 E) - Point	0.00	0.00	11,617.0	-10,218.0	15.6	415,476.72	862,724.96	32° 8' 16.676 N	103° 17' 42.096 W
PS101 As Drilled BHL - plan hits target center - Point	0.00	0.00	11,617.4	-10,260.2	15.5	415,434.49	862,724.87	32° 8' 16.258 N	103° 17' 42.102 W



Ameredev Operating, LLC
Planning Report

Database:	EDM5000	Local Co-ordinate Reference:	Well Pine Straw 101H
Company:	Ameredev Operating, LLC.	TVD Reference:	KB @ 3268.0usft
Project:	PIN/DOG	MD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	North Reference:	Grid
Well:	Pine Straw 101H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Final Survey		
Design:	Design #1		



Ameredev Operating, LLC.

PIN/DOG

PIN/DOG #1S

Pine Straw 101H

Final Survey

Plan: Design #1

Lease Penetration Section Line Foot

02 January, 2020



Ameredev Operating, LLC
Lease Penetration Section Line Footages

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Pine Straw 101H
Project:	PIN/DOG	TVD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	MD Reference:	KB @ 3268.0usft
Well:	Pine Straw 101H	North Reference:	Grid
Wellbore:	Final Survey	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Project	PIN/DOG		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		PIN/DOG #1S			
Site Position:		Northing:	425,695.22 usft	Latitude:	32° 9' 57.779 N
From:	Lat/Long	Easting:	862,769.39 usft	Longitude:	103° 17' 40.433 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.55 °

Well	Pine Straw 101H					
Well Position	+N/-S	0.0 usft	Northing:	425,694.72 usft	Latitude:	32° 9' 57.780 N
	+E/-W	0.0 usft	Easting:	862,709.39 usft	Longitude:	103° 17' 41.131 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,241.0 usft

Wellbore	Final Survey				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/2/2020	6.54	60.02	47,671.81117556

Design	Design #1			
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	179.91

Survey Tool Program	Date	1/2/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	21,598.0	Design #1 (Final Survey)	MWD	OWSG MWD - Standard

Planned Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude	
0.0	0.00	0.00	0.0	-233.5	230.0	32° 9' 57.780 N	103° 17' 41.131 W	
70.0	0.40	181.00	70.0	-233.8	230.0	32° 9' 57.777 N	103° 17' 41.131 W	
100.0	0.40	166.01	100.0	-234.0	230.0	32° 9' 57.775 N	103° 17' 41.131 W	
179.0	0.50	133.00	179.0	-234.5	230.3	32° 9' 57.770 N	103° 17' 41.127 W	
200.0	0.42	137.54	200.0	-234.6	230.5	32° 9' 57.769 N	103° 17' 41.126 W	
266.0	0.20	176.00	266.0	-234.9	230.6	32° 9' 57.766 N	103° 17' 41.124 W	
300.0	0.19	186.65	300.0	-235.0	230.6	32° 9' 57.765 N	103° 17' 41.124 W	
370.0	0.20	209.00	370.0	-235.2	230.5	32° 9' 57.763 N	103° 17' 41.125 W	
400.0	0.27	186.66	400.0	-235.3	230.5	32° 9' 57.762 N	103° 17' 41.125 W	
495.0	0.60	163.00	495.0	-236.0	230.6	32° 9' 57.755 N	103° 17' 41.124 W	
500.0	0.59	162.82	500.0	-236.1	230.6	32° 9' 57.754 N	103° 17' 41.124 W	
590.0	0.40	158.00	590.0	-236.8	230.9	32° 9' 57.747 N	103° 17' 41.121 W	

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Pine Straw 101H
Project:	PIN/DOG	TVD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	MD Reference:	KB @ 3268.0usft
Well:	Pine Straw 101H	North Reference:	Grid
Wellbore:	Final Survey	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
600.0	0.35	164.65	600.0	-236.9	230.9	32° 9' 57.746 N	103° 17' 41.121 W
686.0	0.40	260.00	686.0	-237.2	230.7	32° 9' 57.743 N	103° 17' 41.123 W
700.0	0.37	255.44	700.0	-237.2	230.6	32° 9' 57.743 N	103° 17' 41.124 W
800.0	0.29	204.53	800.0	-237.5	230.2	32° 9' 57.740 N	103° 17' 41.129 W
810.0	0.30	199.00	810.0	-237.6	230.2	32° 9' 57.740 N	103° 17' 41.129 W
900.0	1.07	184.18	900.0	-238.6	230.0	32° 9' 57.729 N	103° 17' 41.131 W
904.0	1.10	184.00	904.0	-238.7	230.0	32° 9' 57.728 N	103° 17' 41.131 W
936.0	1.10	202.00	936.0	-239.3	229.9	32° 9' 57.723 N	103° 17' 41.133 W
999.0	1.20	194.00	999.0	-240.5	229.5	32° 9' 57.711 N	103° 17' 41.138 W
1,000.0	1.19	194.11	1,000.0	-240.5	229.5	32° 9' 57.710 N	103° 17' 41.138 W
1,061.0	0.90	203.00	1,060.9	-241.6	229.2	32° 9' 57.700 N	103° 17' 41.142 W
1,100.0	0.99	192.21	1,099.9	-242.2	229.0	32° 9' 57.694 N	103° 17' 41.144 W
1,189.0	1.30	175.00	1,188.9	-243.9	228.9	32° 9' 57.677 N	103° 17' 41.145 W
1,200.0	1.32	174.48	1,199.9	-244.2	228.9	32° 9' 57.674 N	103° 17' 41.145 W
1,284.0	1.50	171.00	1,283.9	-246.2	229.2	32° 9' 57.654 N	103° 17' 41.142 W
1,300.0	1.68	191.20	1,299.9	-246.7	229.2	32° 9' 57.649 N	103° 17' 41.142 W
1,311.0	1.90	202.00	1,310.9	-247.0	229.1	32° 9' 57.646 N	103° 17' 41.143 W
1,345.0	1.20	206.00	1,344.9	-247.8	228.7	32° 9' 57.638 N	103° 17' 41.148 W
1,397.0	0.90	179.00	1,396.9	-248.7	228.5	32° 9' 57.629 N	103° 17' 41.151 W
1,400.0	0.91	178.59	1,399.9	-248.8	228.5	32° 9' 57.629 N	103° 17' 41.151 W
1,459.0	1.10	172.00	1,458.9	-249.8	228.6	32° 9' 57.618 N	103° 17' 41.150 W
1,500.0	1.36	159.46	1,499.8	-250.7	228.8	32° 9' 57.610 N	103° 17' 41.147 W
1,520.0	1.50	155.00	1,519.8	-251.1	229.0	32° 9' 57.605 N	103° 17' 41.145 W
1,568.0	0.78	172.22	1,567.8	-252.0	229.3	32° 9' 57.597 N	103° 17' 41.141 W
1,600.0	0.67	167.88	1,599.8	-252.4	229.4	32° 9' 57.593 N	103° 17' 41.141 W
1,631.0	0.57	162.13	1,630.8	-252.7	229.4	32° 9' 57.589 N	103° 17' 41.140 W
1,700.0	1.25	139.50	1,699.8	-253.6	230.0	32° 9' 57.581 N	103° 17' 41.133 W
1,726.0	1.52	136.38	1,725.8	-254.1	230.5	32° 9' 57.576 N	103° 17' 41.128 W
1,800.0	0.52	128.69	1,799.8	-255.0	231.4	32° 9' 57.567 N	103° 17' 41.117 W
1,821.0	0.25	115.34	1,820.8	-255.1	231.5	32° 9' 57.566 N	103° 17' 41.116 W
1,900.0	0.43	333.01	1,899.8	-254.9	231.5	32° 9' 57.568 N	103° 17' 41.116 W
1,917.0	0.57	329.70	1,916.8	-254.8	231.5	32° 9' 57.569 N	103° 17' 41.116 W
2,000.0	0.79	290.70	1,999.8	-254.2	230.7	32° 9' 57.575 N	103° 17' 41.125 W
2,012.0	0.84	287.16	2,011.8	-254.2	230.6	32° 9' 57.575 N	103° 17' 41.127 W
2,100.0	0.98	300.93	2,099.8	-253.6	229.3	32° 9' 57.581 N	103° 17' 41.141 W
2,107.0	0.99	301.85	2,106.8	-253.5	229.2	32° 9' 57.582 N	103° 17' 41.143 W
2,200.0	0.82	314.11	2,199.8	-252.6	228.0	32° 9' 57.591 N	103° 17' 41.156 W
2,203.0	0.82	314.58	2,202.8	-252.6	228.0	32° 9' 57.591 N	103° 17' 41.156 W
2,299.0	0.70	323.55	2,298.8	-251.6	227.2	32° 9' 57.600 N	103° 17' 41.166 W
2,300.0	0.70	323.62	2,299.8	-251.6	227.2	32° 9' 57.601 N	103° 17' 41.166 W
2,394.0	0.70	329.87	2,393.7	-250.7	226.5	32° 9' 57.610 N	103° 17' 41.173 W
2,400.0	0.70	331.12	2,399.7	-250.6	226.5	32° 9' 57.611 N	103° 17' 41.174 W
2,489.0	0.81	347.35	2,488.7	-249.5	226.1	32° 9' 57.622 N	103° 17' 41.178 W
2,500.0	0.82	350.23	2,499.7	-249.4	226.1	32° 9' 57.623 N	103° 17' 41.179 W

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Pine Straw 101H
Project:	PIN/DOG	TVD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	MD Reference:	KB @ 3268.0usft
Well:	Pine Straw 101H	North Reference:	Grid
Wellbore:	Final Survey	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
2,583.0	0.92	9.75	2,582.7	-248.1	226.1	32° 9' 57.635 N	103° 17' 41.178 W
2,600.0	0.94	9.73	2,599.7	-247.9	226.1	32° 9' 57.638 N	103° 17' 41.178 W
2,678.0	1.03	9.66	2,677.7	-246.5	226.3	32° 9' 57.651 N	103° 17' 41.175 W
2,700.0	1.05	10.27	2,699.7	-246.1	226.4	32° 9' 57.655 N	103° 17' 41.174 W
2,774.0	1.11	12.19	2,773.7	-244.8	226.7	32° 9' 57.668 N	103° 17' 41.171 W
2,800.0	1.15	12.47	2,799.7	-244.3	226.8	32° 9' 57.673 N	103° 17' 41.169 W
2,870.0	1.26	13.12	2,869.7	-242.8	227.1	32° 9' 57.688 N	103° 17' 41.166 W
2,900.0	1.31	18.11	2,899.7	-242.2	227.3	32° 9' 57.694 N	103° 17' 41.163 W
2,964.0	1.44	27.45	2,963.7	-240.8	227.9	32° 9' 57.708 N	103° 17' 41.156 W
3,000.0	1.60	30.93	2,999.6	-240.0	228.4	32° 9' 57.716 N	103° 17' 41.151 W
3,057.0	1.87	35.18	3,056.6	-238.5	229.3	32° 9' 57.730 N	103° 17' 41.140 W
3,100.0	1.98	37.23	3,099.6	-237.3	230.2	32° 9' 57.742 N	103° 17' 41.129 W
3,153.0	2.11	39.47	3,152.6	-235.9	231.3	32° 9' 57.756 N	103° 17' 41.116 W
3,200.0	2.19	41.67	3,199.5	-234.5	232.5	32° 9' 57.769 N	103° 17' 41.102 W
3,248.0	2.28	43.75	3,247.5	-233.1	233.8	32° 9' 57.783 N	103° 17' 41.087 W
3,300.0	2.45	46.01	3,299.4	-231.6	235.3	32° 9' 57.798 N	103° 17' 41.069 W
3,343.0	2.60	47.65	3,342.4	-230.3	236.7	32° 9' 57.810 N	103° 17' 41.053 W
3,400.0	2.68	53.98	3,399.3	-228.7	238.7	32° 9' 57.827 N	103° 17' 41.029 W
3,438.0	2.75	57.96	3,437.3	-227.7	240.2	32° 9' 57.836 N	103° 17' 41.012 W
3,500.0	2.20	56.22	3,499.2	-226.2	242.4	32° 9' 57.851 N	103° 17' 40.986 W
3,533.0	1.91	54.89	3,532.2	-225.6	243.4	32° 9' 57.857 N	103° 17' 40.974 W
3,600.0	1.44	35.40	3,599.2	-224.2	244.8	32° 9' 57.870 N	103° 17' 40.958 W
3,627.0	1.32	24.19	3,626.2	-223.7	245.1	32° 9' 57.876 N	103° 17' 40.954 W
3,700.0	1.36	16.33	3,699.2	-222.1	245.7	32° 9' 57.891 N	103° 17' 40.947 W
3,722.0	1.38	14.07	3,721.2	-221.6	245.9	32° 9' 57.896 N	103° 17' 40.945 W
3,800.0	1.43	1.88	3,799.1	-219.7	246.1	32° 9' 57.915 N	103° 17' 40.942 W
3,816.0	1.45	359.52	3,815.1	-219.3	246.1	32° 9' 57.919 N	103° 17' 40.942 W
3,900.0	1.15	350.20	3,899.1	-217.4	246.0	32° 9' 57.938 N	103° 17' 40.943 W
3,910.0	1.12	348.77	3,909.1	-217.2	245.9	32° 9' 57.940 N	103° 17' 40.944 W
4,000.0	0.94	316.31	3,999.1	-215.8	245.3	32° 9' 57.954 N	103° 17' 40.952 W
4,005.0	0.94	314.27	4,004.1	-215.7	245.2	32° 9' 57.954 N	103° 17' 40.952 W
4,100.0	0.83	316.09	4,099.1	-214.7	244.2	32° 9' 57.965 N	103° 17' 40.964 W
4,101.0	0.83	316.11	4,100.1	-214.7	244.1	32° 9' 57.965 N	103° 17' 40.964 W
4,195.0	0.94	317.39	4,194.1	-213.6	243.2	32° 9' 57.975 N	103° 17' 40.976 W
4,200.0	0.91	317.97	4,199.1	-213.6	243.1	32° 9' 57.976 N	103° 17' 40.976 W
4,290.0	0.48	339.04	4,289.1	-212.7	242.5	32° 9' 57.985 N	103° 17' 40.983 W
4,300.0	0.63	321.51	4,299.1	-212.6	242.4	32° 9' 57.985 N	103° 17' 40.984 W
4,400.0	2.73	289.53	4,399.0	-211.4	239.8	32° 9' 57.998 N	103° 17' 41.014 W
4,480.0	2.87	287.15	4,478.9	-210.1	236.1	32° 9' 58.010 N	103° 17' 41.057 W
4,500.0	2.68	284.83	4,498.9	-209.9	235.2	32° 9' 58.013 N	103° 17' 41.068 W
4,576.0	2.03	272.28	4,574.8	-209.4	232.1	32° 9' 58.018 N	103° 17' 41.103 W
4,600.0	1.96	269.63	4,598.8	-209.3	231.3	32° 9' 58.019 N	103° 17' 41.113 W
4,671.0	1.79	260.71	4,669.8	-209.5	229.0	32° 9' 58.017 N	103° 17' 41.140 W
4,700.0	1.67	262.93	4,698.8	-209.7	228.1	32° 9' 58.016 N	103° 17' 41.150 W

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Pine Straw 101H
Project:	PIN/DOG	TVD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	MD Reference:	KB @ 3268.0usft
Well:	Pine Straw 101H	North Reference:	Grid
Wellbore:	Final Survey	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
4,765.0	1.40	269.31	4,763.7	-209.8	226.4	32° 9' 58.015 N	103° 17' 41.170 W
4,800.0	1.65	275.68	4,798.7	-209.7	225.5	32° 9' 58.015 N	103° 17' 41.181 W
4,860.0	2.12	282.90	4,858.7	-209.4	223.5	32° 9' 58.019 N	103° 17' 41.204 W
4,900.0	2.19	288.37	4,898.7	-209.0	222.1	32° 9' 58.023 N	103° 17' 41.220 W
4,954.0	2.32	295.13	4,952.6	-208.2	220.1	32° 9' 58.031 N	103° 17' 41.243 W
5,000.0	2.31	297.23	4,998.6	-207.4	218.4	32° 9' 58.039 N	103° 17' 41.262 W
5,049.0	2.31	299.47	5,047.5	-206.4	216.7	32° 9' 58.049 N	103° 17' 41.283 W
5,100.0	2.42	296.37	5,098.5	-205.5	214.8	32° 9' 58.059 N	103° 17' 41.304 W
5,144.0	2.52	293.92	5,142.5	-204.7	213.1	32° 9' 58.067 N	103° 17' 41.324 W
5,200.0	3.19	292.72	5,198.4	-203.6	210.6	32° 9' 58.078 N	103° 17' 41.354 W
5,239.0	3.65	292.15	5,237.3	-202.7	208.4	32° 9' 58.087 N	103° 17' 41.379 W
5,300.0	3.87	294.25	5,298.2	-201.1	204.7	32° 9' 58.103 N	103° 17' 41.421 W
5,334.0	3.99	295.32	5,332.1	-200.1	202.6	32° 9' 58.113 N	103° 17' 41.446 W
5,400.0	2.98	294.87	5,398.0	-198.4	199.0	32° 9' 58.130 N	103° 17' 41.488 W
5,430.0	2.52	294.55	5,428.0	-197.8	197.7	32° 9' 58.136 N	103° 17' 41.503 W
5,500.0	1.10	297.07	5,497.9	-196.9	195.7	32° 9' 58.145 N	103° 17' 41.526 W
5,526.0	0.57	301.21	5,523.9	-196.7	195.4	32° 9' 58.147 N	103° 17' 41.530 W
5,600.0	0.59	68.56	5,597.9	-196.4	195.4	32° 9' 58.150 N	103° 17' 41.529 W
5,621.0	0.87	77.06	5,618.9	-196.3	195.7	32° 9' 58.151 N	103° 17' 41.526 W
5,700.0	1.29	85.88	5,697.9	-196.1	197.1	32° 9' 58.153 N	103° 17' 41.509 W
5,716.0	1.38	87.00	5,713.9	-196.1	197.5	32° 9' 58.153 N	103° 17' 41.505 W
5,800.0	1.37	104.23	5,797.9	-196.3	199.5	32° 9' 58.151 N	103° 17' 41.482 W
5,811.0	1.38	106.45	5,808.9	-196.3	199.7	32° 9' 58.150 N	103° 17' 41.479 W
5,900.0	1.39	95.33	5,897.8	-196.7	201.8	32° 9' 58.146 N	103° 17' 41.454 W
5,907.0	1.39	94.47	5,904.8	-196.7	202.0	32° 9' 58.146 N	103° 17' 41.452 W
6,000.0	1.46	103.60	5,997.8	-197.1	204.3	32° 9' 58.142 N	103° 17' 41.426 W
6,002.0	1.46	103.79	5,999.8	-197.1	204.3	32° 9' 58.142 N	103° 17' 41.425 W
6,097.0	1.40	99.46	6,094.8	-197.6	206.7	32° 9' 58.137 N	103° 17' 41.398 W
6,100.0	1.40	99.55	6,097.8	-197.6	206.7	32° 9' 58.137 N	103° 17' 41.398 W
6,192.0	1.40	102.35	6,189.8	-198.0	208.9	32° 9' 58.133 N	103° 17' 41.372 W
6,200.0	1.41	102.41	6,197.7	-198.1	209.1	32° 9' 58.132 N	103° 17' 41.370 W
6,287.0	1.56	102.97	6,284.7	-198.6	211.3	32° 9' 58.127 N	103° 17' 41.344 W
6,300.0	1.55	103.74	6,297.7	-198.7	211.7	32° 9' 58.126 N	103° 17' 41.340 W
6,382.0	1.50	108.81	6,379.7	-199.3	213.8	32° 9' 58.120 N	103° 17' 41.316 W
6,400.0	1.55	110.35	6,397.7	-199.4	214.2	32° 9' 58.118 N	103° 17' 41.311 W
6,477.0	1.79	115.89	6,474.6	-200.3	216.3	32° 9' 58.109 N	103° 17' 41.287 W
6,500.0	1.83	116.72	6,497.6	-200.6	216.9	32° 9' 58.106 N	103° 17' 41.279 W
6,572.0	1.94	119.13	6,569.6	-201.8	219.0	32° 9' 58.095 N	103° 17' 41.255 W
6,600.0	1.87	118.90	6,597.6	-202.2	219.8	32° 9' 58.090 N	103° 17' 41.246 W
6,668.0	1.69	118.26	6,665.5	-203.2	221.7	32° 9' 58.080 N	103° 17' 41.224 W
6,700.0	1.65	119.96	6,697.5	-203.7	222.5	32° 9' 58.076 N	103° 17' 41.215 W
6,763.0	1.57	123.58	6,760.5	-204.6	224.0	32° 9' 58.066 N	103° 17' 41.197 W
6,800.0	1.59	122.77	6,797.5	-205.2	224.9	32° 9' 58.061 N	103° 17' 41.188 W
6,858.0	1.62	121.55	6,855.5	-206.0	226.2	32° 9' 58.052 N	103° 17' 41.172 W
6,900.0	1.64	122.00	6,897.5	-206.6	227.2	32° 9' 58.046 N	103° 17' 41.160 W

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Pine Straw 101H
Project:	PIN/DOG	TVD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	MD Reference:	KB @ 3268.0usft
Well:	Pine Straw 101H	North Reference:	Grid
Wellbore:	Final Survey	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
6,954.0	1.66	122.57	6,951.4	-207.5	228.6	32° 9' 58.037 N	103° 17' 41.145 W
7,000.0	1.71	117.92	6,997.4	-208.2	229.7	32° 9' 58.031 N	103° 17' 41.131 W
7,049.0	1.77	113.28	7,046.4	-208.8	231.1	32° 9' 58.024 N	103° 17' 41.116 W
7,100.0	1.81	113.96	7,097.4	-209.4	232.5	32° 9' 58.018 N	103° 17' 41.099 W
7,144.0	1.84	114.52	7,141.3	-210.0	233.8	32° 9' 58.012 N	103° 17' 41.084 W
7,200.0	1.85	115.69	7,197.3	-210.8	235.4	32° 9' 58.004 N	103° 17' 41.065 W
7,239.0	1.85	116.50	7,236.3	-211.3	236.6	32° 9' 57.998 N	103° 17' 41.052 W
7,300.0	1.96	115.32	7,297.3	-212.2	238.4	32° 9' 57.990 N	103° 17' 41.031 W
7,334.0	2.02	114.72	7,331.2	-212.7	239.5	32° 9' 57.985 N	103° 17' 41.019 W
7,400.0	1.72	117.44	7,397.2	-213.7	241.4	32° 9' 57.975 N	103° 17' 40.996 W
7,430.0	1.59	119.01	7,427.2	-214.1	242.2	32° 9' 57.971 N	103° 17' 40.987 W
7,500.0	1.55	134.56	7,497.2	-215.2	243.7	32° 9' 57.959 N	103° 17' 40.970 W
7,525.0	1.57	140.13	7,522.2	-215.7	244.1	32° 9' 57.954 N	103° 17' 40.964 W
7,600.0	1.48	136.17	7,597.1	-217.2	245.5	32° 9' 57.940 N	103° 17' 40.949 W
7,620.0	1.46	135.04	7,617.1	-217.6	245.8	32° 9' 57.936 N	103° 17' 40.945 W
7,700.0	1.40	142.91	7,697.1	-219.1	247.1	32° 9' 57.921 N	103° 17' 40.930 W
7,716.0	1.39	144.56	7,713.1	-219.4	247.4	32° 9' 57.918 N	103° 17' 40.927 W
7,800.0	1.33	127.63	7,797.1	-220.8	248.7	32° 9' 57.904 N	103° 17' 40.912 W
7,811.0	1.33	125.35	7,808.1	-220.9	248.9	32° 9' 57.902 N	103° 17' 40.909 W
7,900.0	1.04	132.15	7,897.0	-222.1	250.4	32° 9' 57.891 N	103° 17' 40.893 W
7,907.0	1.02	132.85	7,904.0	-222.2	250.5	32° 9' 57.890 N	103° 17' 40.891 W
8,000.0	1.03	135.77	7,997.0	-223.3	251.7	32° 9' 57.878 N	103° 17' 40.878 W
8,002.0	1.03	135.83	7,999.0	-223.4	251.7	32° 9' 57.878 N	103° 17' 40.877 W
8,097.0	0.98	138.23	8,094.0	-224.6	252.8	32° 9' 57.866 N	103° 17' 40.864 W
8,100.0	0.97	138.78	8,097.0	-224.6	252.9	32° 9' 57.865 N	103° 17' 40.864 W
8,192.0	0.65	165.11	8,189.0	-225.7	253.5	32° 9' 57.855 N	103° 17' 40.857 W
8,200.0	0.68	168.07	8,197.0	-225.8	253.5	32° 9' 57.854 N	103° 17' 40.856 W
8,288.0	1.13	187.11	8,285.0	-227.2	253.5	32° 9' 57.840 N	103° 17' 40.857 W
8,300.0	1.11	186.45	8,297.0	-227.4	253.5	32° 9' 57.838 N	103° 17' 40.857 W
8,383.0	0.95	180.98	8,380.0	-228.9	253.4	32° 9' 57.823 N	103° 17' 40.858 W
8,400.0	0.93	180.21	8,397.0	-229.2	253.4	32° 9' 57.820 N	103° 17' 40.858 W
8,478.0	0.85	176.26	8,475.0	-230.4	253.4	32° 9' 57.808 N	103° 17' 40.858 W
8,500.0	0.83	172.56	8,497.0	-230.7	253.5	32° 9' 57.805 N	103° 17' 40.858 W
8,574.0	0.78	158.90	8,571.0	-231.7	253.7	32° 9' 57.795 N	103° 17' 40.855 W
8,600.0	0.75	154.41	8,597.0	-232.0	253.9	32° 9' 57.792 N	103° 17' 40.853 W
8,669.0	0.68	140.64	8,666.0	-232.7	254.3	32° 9' 57.785 N	103° 17' 40.848 W
8,700.0	0.68	136.77	8,696.9	-233.0	254.5	32° 9' 57.782 N	103° 17' 40.845 W
8,764.0	0.68	128.75	8,760.9	-233.5	255.1	32° 9' 57.777 N	103° 17' 40.839 W
8,800.0	0.65	125.94	8,796.9	-233.8	255.4	32° 9' 57.774 N	103° 17' 40.835 W
8,859.0	0.61	120.79	8,855.9	-234.1	256.0	32° 9' 57.771 N	103° 17' 40.829 W
8,900.0	0.58	100.47	8,896.9	-234.3	256.4	32° 9' 57.769 N	103° 17' 40.824 W
8,954.0	0.65	75.05	8,950.9	-234.3	256.9	32° 9' 57.770 N	103° 17' 40.818 W
9,000.0	0.68	74.00	8,996.9	-234.1	257.4	32° 9' 57.771 N	103° 17' 40.812 W
9,050.0	0.71	72.95	9,046.9	-233.9	258.0	32° 9' 57.773 N	103° 17' 40.805 W

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Pine Straw 101H
Project:	PIN/DOG	TVD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	MD Reference:	KB @ 3268.0usft
Well:	Pine Straw 101H	North Reference:	Grid
Wellbore:	Final Survey	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
9,100.0	0.96	71.41	9,096.9	-233.7	258.7	32° 9' 57.775 N	103° 17' 40.797 W
9,144.0	1.18	70.60	9,140.9	-233.5	259.5	32° 9' 57.777 N	103° 17' 40.788 W
9,200.0	1.08	74.83	9,196.9	-233.1	260.5	32° 9' 57.781 N	103° 17' 40.776 W
9,239.0	1.02	78.23	9,235.9	-233.0	261.2	32° 9' 57.782 N	103° 17' 40.767 W
9,300.0	1.19	72.59	9,296.9	-232.7	262.4	32° 9' 57.785 N	103° 17' 40.754 W
9,335.0	1.29	70.04	9,331.9	-232.4	263.1	32° 9' 57.787 N	103° 17' 40.746 W
9,400.0	1.70	76.59	9,396.9	-231.9	264.7	32° 9' 57.792 N	103° 17' 40.727 W
9,430.0	1.90	78.64	9,426.8	-231.7	265.6	32° 9' 57.794 N	103° 17' 40.716 W
9,500.0	1.73	77.94	9,496.8	-231.3	267.8	32° 9' 57.798 N	103° 17' 40.691 W
9,526.0	1.67	77.64	9,522.8	-231.1	268.6	32° 9' 57.800 N	103° 17' 40.682 W
9,600.0	1.77	75.47	9,596.8	-230.6	270.7	32° 9' 57.804 N	103° 17' 40.657 W
9,622.0	1.80	74.87	9,618.7	-230.4	271.4	32° 9' 57.806 N	103° 17' 40.649 W
9,700.0	1.27	76.56	9,696.7	-229.9	273.4	32° 9' 57.811 N	103° 17' 40.625 W
9,717.0	1.15	77.14	9,713.7	-229.8	273.8	32° 9' 57.812 N	103° 17' 40.621 W
9,800.0	0.56	78.91	9,796.7	-229.6	275.0	32° 9' 57.814 N	103° 17' 40.607 W
9,812.0	0.48	79.52	9,808.7	-229.5	275.1	32° 9' 57.815 N	103° 17' 40.606 W
9,900.0	0.46	27.32	9,896.7	-229.2	275.6	32° 9' 57.818 N	103° 17' 40.600 W
9,907.0	0.47	23.64	9,903.7	-229.1	275.6	32° 9' 57.819 N	103° 17' 40.600 W
10,000.0	0.57	323.88	9,996.7	-228.4	275.5	32° 9' 57.826 N	103° 17' 40.601 W
10,002.0	0.58	323.02	9,998.7	-228.4	275.5	32° 9' 57.826 N	103° 17' 40.601 W
10,098.0	0.57	21.89	10,094.7	-227.5	275.4	32° 9' 57.834 N	103° 17' 40.602 W
10,100.0	0.57	22.58	10,096.7	-227.5	275.4	32° 9' 57.834 N	103° 17' 40.602 W
10,194.0	0.75	47.99	10,190.7	-226.7	276.0	32° 9' 57.843 N	103° 17' 40.595 W
10,200.0	0.75	48.54	10,196.7	-226.6	276.1	32° 9' 57.843 N	103° 17' 40.594 W
10,289.0	0.71	57.17	10,285.7	-225.9	277.0	32° 9' 57.850 N	103° 17' 40.583 W
10,300.0	0.56	59.89	10,296.7	-225.9	277.1	32° 9' 57.851 N	103° 17' 40.582 W
10,384.0	0.66	216.93	10,380.7	-226.1	277.2	32° 9' 57.849 N	103° 17' 40.582 W
10,400.0	0.58	216.64	10,396.7	-226.2	277.0	32° 9' 57.847 N	103° 17' 40.583 W
10,480.0	0.21	212.14	10,476.7	-226.7	276.7	32° 9' 57.843 N	103° 17' 40.587 W
10,500.0	0.21	210.33	10,496.7	-226.7	276.7	32° 9' 57.842 N	103° 17' 40.587 W
10,575.0	0.22	203.84	10,571.7	-227.0	276.6	32° 9' 57.840 N	103° 17' 40.589 W
10,600.0	0.17	227.13	10,596.7	-227.0	276.5	32° 9' 57.839 N	103° 17' 40.589 W
10,601.0	0.17	228.30	10,597.7	-227.0	276.5	32° 9' 57.839 N	103° 17' 40.589 W
10,700.0	0.63	209.16	10,696.7	-227.6	276.1	32° 9' 57.834 N	103° 17' 40.594 W
10,705.0	0.65	208.91	10,701.7	-227.7	276.1	32° 9' 57.833 N	103° 17' 40.594 W
10,800.0	0.35	152.53	10,796.7	-228.4	276.0	32° 9' 57.826 N	103° 17' 40.595 W
10,895.0	0.66	89.16	10,891.7	-228.6	276.7	32° 9' 57.823 N	103° 17' 40.588 W
10,900.0	0.69	113.31	10,896.7	-228.6	276.7	32° 9' 57.823 N	103° 17' 40.587 W
11,000.0	5.90	179.67	10,996.5	-234.0	277.3	32° 9' 57.770 N	103° 17' 40.581 W
11,048.0	8.60	181.69	11,044.1	-240.1	277.2	32° 9' 57.710 N	103° 17' 40.582 W
11,080.0	11.14	182.66	11,075.6	-245.6	277.0	32° 9' 57.656 N	103° 17' 40.586 W
11,100.0	14.02	182.64	11,095.1	-249.9	276.8	32° 9' 57.613 N	103° 17' 40.588 W
11,125.0	17.63	182.63	11,119.2	-256.7	276.5	32° 9' 57.545 N	103° 17' 40.593 W
11,175.0	19.95	182.39	11,166.5	-272.8	275.8	32° 9' 57.386 N	103° 17' 40.603 W

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Pine Straw 101H
Project:	PIN/DOG	TVD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	MD Reference:	KB @ 3268.0usft
Well:	Pine Straw 101H	North Reference:	Grid
Wellbore:	Final Survey	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
11,200.0	21.03	182.52	11,189.9	-281.6	275.4	32° 9' 57.300 N	103° 17' 40.608 W
11,220.0	21.89	182.62	11,208.5	-288.9	275.1	32° 9' 57.228 N	103° 17' 40.613 W
11,270.0	27.10	183.95	11,254.0	-309.5	273.9	32° 9' 57.023 N	103° 17' 40.629 W
11,300.0	30.30	185.12	11,280.3	-323.9	272.7	32° 9' 56.881 N	103° 17' 40.644 W
11,315.0	31.91	185.63	11,293.2	-331.6	272.0	32° 9' 56.805 N	103° 17' 40.653 W
11,366.0	36.08	187.02	11,335.5	-360.0	268.8	32° 9' 56.525 N	103° 17' 40.693 W
11,400.0	38.26	187.48	11,362.5	-380.3	266.2	32° 9' 56.323 N	103° 17' 40.726 W
11,411.0	38.96	187.62	11,371.1	-387.1	265.3	32° 9' 56.256 N	103° 17' 40.737 W
11,461.0	41.03	187.57	11,409.4	-419.0	261.1	32° 9' 55.941 N	103° 17' 40.790 W
11,493.0	43.84	188.29	11,433.1	-440.4	258.1	32° 9' 55.730 N	103° 17' 40.827 W
11,500.0	44.82	188.31	11,438.1	-445.2	257.4	32° 9' 55.682 N	103° 17' 40.836 W
11,523.0	48.05	188.38	11,453.9	-461.7	255.0	32° 9' 55.519 N	103° 17' 40.866 W
11,555.0	52.25	188.48	11,474.4	-486.0	251.4	32° 9' 55.279 N	103° 17' 40.911 W
11,587.0	57.47	188.40	11,492.8	-511.9	247.5	32° 9' 55.024 N	103° 17' 40.958 W
11,600.0	58.73	188.54	11,499.7	-522.8	245.9	32° 9' 54.916 N	103° 17' 40.978 W
11,619.0	60.56	188.74	11,509.3	-539.0	243.5	32° 9' 54.756 N	103° 17' 41.009 W
11,651.0	63.76	188.98	11,524.2	-566.9	239.1	32° 9' 54.480 N	103° 17' 41.063 W
11,682.0	68.14	187.96	11,536.9	-594.9	234.9	32° 9' 54.203 N	103° 17' 41.114 W
11,697.6	70.00	187.70	11,542.5	-609.4	232.9	32° 9' 54.060 N	103° 17' 41.139 W
PS101 As Drilled FTP							
11,700.0	70.28	187.67	11,543.3	-611.6	232.6	32° 9' 54.038 N	103° 17' 41.143 W
11,745.0	75.64	186.96	11,556.4	-654.3	227.2	32° 9' 53.617 N	103° 17' 41.211 W
11,777.0	79.75	186.54	11,563.3	-685.3	223.5	32° 9' 53.310 N	103° 17' 41.257 W
11,800.0	82.56	185.05	11,566.8	-707.9	221.2	32° 9' 53.086 N	103° 17' 41.286 W
11,840.0	87.45	182.49	11,570.3	-747.7	218.6	32° 9' 52.693 N	103° 17' 41.321 W
11,900.0	87.77	181.23	11,572.8	-807.6	216.6	32° 9' 52.101 N	103° 17' 41.351 W
11,955.0	88.07	180.07	11,574.8	-862.5	216.0	32° 9' 51.557 N	103° 17' 41.364 W
12,000.0	87.40	179.89	11,576.6	-907.5	216.0	32° 9' 51.112 N	103° 17' 41.369 W
12,050.0	86.66	179.68	11,579.1	-957.4	216.2	32° 9' 50.618 N	103° 17' 41.372 W
12,100.0	88.56	180.14	11,581.2	-1,007.4	216.3	32° 9' 50.124 N	103° 17' 41.377 W
12,145.0	90.27	180.56	11,581.7	-1,052.4	216.0	32° 9' 49.679 N	103° 17' 41.385 W
12,200.0	90.51	180.29	11,581.3	-1,107.4	215.6	32° 9' 49.134 N	103° 17' 41.396 W
12,241.0	90.69	180.08	11,580.9	-1,148.4	215.5	32° 9' 48.729 N	103° 17' 41.402 W
12,300.0	90.76	180.00	11,580.1	-1,207.4	215.5	32° 9' 48.145 N	103° 17' 41.409 W
12,336.0	90.81	179.95	11,579.6	-1,243.4	215.5	32° 9' 47.789 N	103° 17' 41.413 W
12,400.0	91.10	179.75	11,578.6	-1,307.4	215.6	32° 9' 47.156 N	103° 17' 41.419 W
12,432.0	91.24	179.65	11,577.9	-1,339.4	215.8	32° 9' 46.839 N	103° 17' 41.420 W
12,500.0	90.14	179.39	11,577.1	-1,407.3	216.4	32° 9' 46.166 N	103° 17' 41.421 W
12,527.0	89.71	179.29	11,577.1	-1,434.3	216.7	32° 9' 45.899 N	103° 17' 41.421 W
12,600.0	87.85	179.75	11,578.7	-1,507.3	217.3	32° 9' 45.177 N	103° 17' 41.422 W
12,622.0	87.29	179.89	11,579.6	-1,529.3	217.4	32° 9' 44.960 N	103° 17' 41.423 W
12,700.0	86.72	179.63	11,583.7	-1,607.2	217.7	32° 9' 44.189 N	103° 17' 41.428 W
12,717.0	86.60	179.57	11,584.7	-1,624.2	217.8	32° 9' 44.021 N	103° 17' 41.429 W
12,800.0	85.65	178.99	11,590.3	-1,707.0	218.9	32° 9' 43.201 N	103° 17' 41.426 W

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Pine Straw 101H
Project:	PIN/DOG	TVD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	MD Reference:	KB @ 3268.0usft
Well:	Pine Straw 101H	North Reference:	Grid
Wellbore:	Final Survey	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
12,813.0	85.50	178.90	11,591.3	-1,719.9	219.1	32° 9' 43.073 N	103° 17' 41.425 W
12,859.0	85.55	178.58	11,594.9	-1,765.8	220.1	32° 9' 42.619 N	103° 17' 41.418 W
12,900.0	87.11	178.99	11,597.5	-1,806.7	221.0	32° 9' 42.215 N	103° 17' 41.413 W
12,908.0	87.42	179.07	11,597.9	-1,814.7	221.1	32° 9' 42.136 N	103° 17' 41.412 W
12,955.0	87.56	179.22	11,600.0	-1,861.6	221.8	32° 9' 41.671 N	103° 17' 41.409 W
13,000.0	89.53	179.29	11,601.1	-1,906.6	222.4	32° 9' 41.226 N	103° 17' 41.407 W
13,002.0	89.62	179.29	11,601.1	-1,908.6	222.4	32° 9' 41.206 N	103° 17' 41.407 W
13,040.0	89.40	179.44	11,601.4	-1,946.6	222.8	32° 9' 40.830 N	103° 17' 41.407 W
13,097.0	90.00	179.09	11,601.7	-2,003.6	223.6	32° 9' 40.266 N	103° 17' 41.404 W
13,100.0	90.14	179.11	11,601.7	-2,006.6	223.6	32° 9' 40.236 N	103° 17' 41.404 W
13,190.0	94.19	179.60	11,598.3	-2,096.5	224.6	32° 9' 39.347 N	103° 17' 41.403 W
13,200.0	94.17	179.63	11,597.6	-2,106.5	224.7	32° 9' 39.248 N	103° 17' 41.403 W
13,286.0	94.00	179.93	11,591.5	-2,192.3	225.0	32° 9' 38.399 N	103° 17' 41.409 W
13,300.0	93.72	180.05	11,590.5	-2,206.2	225.0	32° 9' 38.261 N	103° 17' 41.410 W
13,381.0	92.07	180.75	11,586.4	-2,287.1	224.5	32° 9' 37.461 N	103° 17' 41.426 W
13,400.0	91.64	181.11	11,585.8	-2,306.1	224.1	32° 9' 37.273 N	103° 17' 41.432 W
13,475.0	89.94	182.52	11,584.8	-2,381.1	221.8	32° 9' 36.531 N	103° 17' 41.468 W
13,500.0	88.82	182.62	11,585.1	-2,406.0	220.7	32° 9' 36.284 N	103° 17' 41.484 W
13,568.0	85.78	182.89	11,588.3	-2,473.9	217.4	32° 9' 35.614 N	103° 17' 41.529 W
13,600.0	85.66	183.20	11,590.7	-2,505.7	215.7	32° 9' 35.298 N	103° 17' 41.552 W
13,616.0	85.60	183.35	11,591.9	-2,521.7	214.8	32° 9' 35.141 N	103° 17' 41.565 W
13,664.0	85.46	181.23	11,595.6	-2,569.5	212.9	32° 9' 34.668 N	103° 17' 41.592 W
13,700.0	85.62	179.93	11,598.4	-2,605.4	212.5	32° 9' 34.313 N	103° 17' 41.601 W
13,714.0	85.68	179.43	11,599.5	-2,619.3	212.6	32° 9' 34.175 N	103° 17' 41.601 W
13,759.0	87.52	177.48	11,602.2	-2,664.2	213.8	32° 9' 33.730 N	103° 17' 41.592 W
13,800.0	87.91	176.30	11,603.8	-2,705.1	216.0	32° 9' 33.325 N	103° 17' 41.571 W
13,809.0	88.00	176.04	11,604.1	-2,714.1	216.6	32° 9' 33.237 N	103° 17' 41.565 W
13,852.0	87.88	175.34	11,605.7	-2,757.0	219.9	32° 9' 32.812 N	103° 17' 41.532 W
13,900.0	89.92	176.28	11,606.6	-2,804.8	223.4	32° 9' 32.338 N	103° 17' 41.497 W
13,902.0	90.01	176.32	11,606.6	-2,806.8	223.5	32° 9' 32.319 N	103° 17' 41.496 W
13,948.0	89.20	177.87	11,606.9	-2,852.7	225.8	32° 9' 31.864 N	103° 17' 41.474 W
13,998.0	88.75	178.93	11,607.8	-2,902.7	227.2	32° 9' 31.369 N	103° 17' 41.463 W
14,000.0	88.77	178.95	11,607.8	-2,904.7	227.2	32° 9' 31.350 N	103° 17' 41.463 W
14,042.0	89.09	179.38	11,608.6	-2,946.7	227.9	32° 9' 30.934 N	103° 17' 41.460 W
14,100.0	88.76	179.24	11,609.7	-3,004.7	228.6	32° 9' 30.360 N	103° 17' 41.459 W
14,138.0	88.55	179.14	11,610.6	-3,042.7	229.1	32° 9' 29.984 N	103° 17' 41.457 W
14,200.0	90.03	179.43	11,611.4	-3,104.7	229.9	32° 9' 29.371 N	103° 17' 41.455 W
14,232.0	90.79	179.58	11,611.1	-3,136.7	230.2	32° 9' 29.054 N	103° 17' 41.455 W
14,300.0	89.02	179.93	11,611.2	-3,204.7	230.4	32° 9' 28.381 N	103° 17' 41.459 W
14,326.0	88.35	180.07	11,611.8	-3,230.7	230.4	32° 9' 28.124 N	103° 17' 41.462 W
14,400.0	87.82	180.09	11,614.3	-3,304.6	230.3	32° 9' 27.392 N	103° 17' 41.472 W
14,420.0	87.68	180.10	11,615.1	-3,324.6	230.3	32° 9' 27.195 N	103° 17' 41.474 W
14,500.0	90.19	180.93	11,616.6	-3,404.6	229.6	32° 9' 26.403 N	103° 17' 41.492 W
14,514.0	90.63	181.07	11,616.5	-3,418.6	229.3	32° 9' 26.265 N	103° 17' 41.496 W

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Pine Straw 101H
Project:	PIN/DOG	TVD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	MD Reference:	KB @ 3268.0usft
Well:	Pine Straw 101H	North Reference:	Grid
Wellbore:	Final Survey	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
14,600.0	91.50	181.92	11,614.9	-3,504.5	227.1	32° 9' 25.415 N	103° 17' 41.532 W
14,608.0	91.58	182.00	11,614.7	-3,512.5	226.8	32° 9' 25.336 N	103° 17' 41.536 W
14,700.0	89.93	181.17	11,613.5	-3,604.5	224.3	32° 9' 24.426 N	103° 17' 41.576 W
14,704.0	89.86	181.13	11,613.5	-3,608.5	224.2	32° 9' 24.387 N	103° 17' 41.577 W
14,797.0	85.93	179.15	11,616.9	-3,701.4	224.0	32° 9' 23.467 N	103° 17' 41.590 W
14,800.0	85.96	179.09	11,617.1	-3,704.4	224.0	32° 9' 23.438 N	103° 17' 41.590 W
14,893.0	86.94	177.35	11,622.8	-3,797.1	226.9	32° 9' 22.519 N	103° 17' 41.567 W
14,900.0	87.24	177.41	11,623.2	-3,804.1	227.2	32° 9' 22.450 N	103° 17' 41.564 W
14,989.0	91.12	178.14	11,624.5	-3,893.0	230.7	32° 9' 21.570 N	103° 17' 41.534 W
15,000.0	90.88	178.27	11,624.3	-3,904.0	231.0	32° 9' 21.461 N	103° 17' 41.531 W
15,082.0	89.09	179.22	11,624.3	-3,986.0	232.8	32° 9' 20.650 N	103° 17' 41.519 W
15,100.0	88.92	179.23	11,624.6	-4,004.0	233.1	32° 9' 20.472 N	103° 17' 41.519 W
15,177.0	88.17	179.29	11,626.6	-4,081.0	234.1	32° 9' 19.710 N	103° 17' 41.516 W
15,200.0	87.54	179.46	11,627.4	-4,103.9	234.3	32° 9' 19.483 N	103° 17' 41.515 W
15,272.0	85.58	179.99	11,631.8	-4,175.8	234.6	32° 9' 18.772 N	103° 17' 41.519 W
15,300.0	86.23	179.92	11,633.8	-4,203.7	234.7	32° 9' 18.496 N	103° 17' 41.522 W
15,368.0	87.80	179.76	11,637.3	-4,271.6	234.9	32° 9' 17.824 N	103° 17' 41.528 W
15,400.0	87.39	179.40	11,638.6	-4,303.6	235.1	32° 9' 17.507 N	103° 17' 41.529 W
15,463.0	86.58	178.70	11,642.0	-4,366.5	236.1	32° 9' 16.885 N	103° 17' 41.523 W
15,500.0	86.45	179.07	11,644.2	-4,403.4	236.8	32° 9' 16.519 N	103° 17' 41.519 W
15,559.0	86.25	179.67	11,648.0	-4,462.3	237.5	32° 9' 15.937 N	103° 17' 41.518 W
15,600.0	87.48	179.63	11,650.2	-4,503.3	237.7	32° 9' 15.532 N	103° 17' 41.520 W
15,654.0	89.10	179.58	11,651.8	-4,557.2	238.1	32° 9' 14.998 N	103° 17' 41.522 W
15,700.0	88.00	179.09	11,653.0	-4,603.2	238.6	32° 9' 14.543 N	103° 17' 41.521 W
15,749.0	86.83	178.57	11,655.2	-4,652.2	239.6	32° 9' 14.058 N	103° 17' 41.515 W
15,800.0	90.08	179.43	11,656.6	-4,703.1	240.5	32° 9' 13.554 N	103° 17' 41.510 W
15,845.0	92.94	180.18	11,655.4	-4,748.1	240.7	32° 9' 13.109 N	103° 17' 41.513 W
15,900.0	95.22	181.32	11,651.5	-4,803.0	240.0	32° 9' 12.566 N	103° 17' 41.528 W
15,940.0	96.87	182.16	11,647.3	-4,842.7	238.8	32° 9' 12.173 N	103° 17' 41.546 W
16,000.0	93.21	182.19	11,642.0	-4,902.4	236.5	32° 9' 11.582 N	103° 17' 41.579 W
16,035.0	91.08	182.20	11,640.7	-4,937.4	235.2	32° 9' 11.237 N	103° 17' 41.599 W
16,100.0	89.55	181.34	11,640.3	-5,002.3	233.2	32° 9' 10.594 N	103° 17' 41.629 W
16,130.0	88.85	180.95	11,640.7	-5,032.3	232.6	32° 9' 10.297 N	103° 17' 41.640 W
16,200.0	88.05	180.94	11,642.6	-5,102.3	231.4	32° 9' 9.605 N	103° 17' 41.661 W
16,225.0	87.76	180.93	11,643.5	-5,127.3	231.0	32° 9' 9.358 N	103° 17' 41.669 W
16,300.0	90.02	181.48	11,645.0	-5,202.2	229.4	32° 9' 8.616 N	103° 17' 41.695 W
16,321.0	90.65	181.64	11,644.9	-5,223.2	228.8	32° 9' 8.409 N	103° 17' 41.704 W
16,400.0	85.97	180.56	11,647.2	-5,302.2	227.3	32° 9' 7.628 N	103° 17' 41.731 W
16,417.0	84.96	180.33	11,648.5	-5,319.1	227.2	32° 9' 7.460 N	103° 17' 41.734 W
16,500.0	83.73	179.98	11,656.7	-5,401.7	227.0	32° 9' 6.643 N	103° 17' 41.746 W
16,512.0	83.55	179.93	11,658.1	-5,413.6	227.0	32° 9' 6.525 N	103° 17' 41.747 W
16,600.0	82.53	178.67	11,668.7	-5,501.0	228.0	32° 9' 5.661 N	103° 17' 41.745 W
16,608.0	82.44	178.56	11,669.8	-5,508.9	228.2	32° 9' 5.582 N	103° 17' 41.744 W
16,700.0	82.68	178.91	11,681.7	-5,600.1	230.2	32° 9' 4.680 N	103° 17' 41.730 W
16,704.0	82.69	178.93	11,682.2	-5,604.1	230.3	32° 9' 4.640 N	103° 17' 41.730 W

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Pine Straw 101H
Project:	PIN/DOG	TVD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	MD Reference:	KB @ 3268.0usft
Well:	Pine Straw 101H	North Reference:	Grid
Wellbore:	Final Survey	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
16,799.0	86.68	178.08	11,691.0	-5,698.6	232.8	32° 9' 3.705 N	103° 17' 41.712 W
16,800.0	86.69	178.09	11,691.0	-5,699.6	232.8	32° 9' 3.695 N	103° 17' 41.712 W
16,893.0	88.07	179.12	11,695.3	-5,792.5	235.1	32° 9' 2.776 N	103° 17' 41.696 W
16,900.0	88.12	179.16	11,695.5	-5,799.5	235.2	32° 9' 2.707 N	103° 17' 41.695 W
16,988.0	88.73	179.60	11,697.9	-5,887.4	236.1	32° 9' 1.836 N	103° 17' 41.694 W
17,000.0	88.70	179.52	11,698.2	-5,899.4	236.2	32° 9' 1.717 N	103° 17' 41.694 W
17,083.0	88.52	179.00	11,700.2	-5,982.4	237.3	32° 9' 0.896 N	103° 17' 41.691 W
17,100.0	88.93	179.13	11,700.6	-5,999.4	237.6	32° 9' 0.728 N	103° 17' 41.690 W
17,178.0	90.83	179.72	11,700.8	-6,077.4	238.4	32° 8' 59.956 N	103° 17' 41.690 W
17,200.0	90.22	179.76	11,700.6	-6,099.4	238.5	32° 8' 59.739 N	103° 17' 41.691 W
17,272.0	88.22	179.90	11,701.5	-6,171.4	238.7	32° 8' 59.026 N	103° 17' 41.696 W
17,300.0	88.04	179.85	11,702.5	-6,199.4	238.7	32° 8' 58.750 N	103° 17' 41.699 W
17,367.0	87.60	179.74	11,705.0	-6,266.3	239.0	32° 8' 58.087 N	103° 17' 41.704 W
17,400.0	87.68	179.64	11,706.4	-6,299.3	239.1	32° 8' 57.761 N	103° 17' 41.705 W
17,461.0	87.83	179.45	11,708.7	-6,360.2	239.6	32° 8' 57.158 N	103° 17' 41.706 W
17,500.0	87.73	179.16	11,710.3	-6,399.2	240.1	32° 8' 56.772 N	103° 17' 41.705 W
17,555.0	87.58	178.75	11,712.5	-6,454.1	241.1	32° 8' 56.228 N	103° 17' 41.700 W
17,600.0	87.42	178.49	11,714.5	-6,499.1	242.2	32° 8' 55.784 N	103° 17' 41.692 W
17,649.0	87.25	178.20	11,716.8	-6,548.0	243.6	32° 8' 55.299 N	103° 17' 41.681 W
17,700.0	87.92	178.14	11,718.9	-6,598.9	245.2	32° 8' 54.795 N	103° 17' 41.668 W
17,744.0	88.50	178.09	11,720.3	-6,642.9	246.7	32° 8' 54.360 N	103° 17' 41.656 W
17,800.0	89.90	178.06	11,721.1	-6,698.9	248.6	32° 8' 53.806 N	103° 17' 41.641 W
17,837.0	90.82	178.04	11,720.8	-6,735.8	249.8	32° 8' 53.440 N	103° 17' 41.630 W
17,900.0	91.16	178.97	11,719.7	-6,798.8	251.5	32° 8' 52.817 N	103° 17' 41.618 W
17,932.0	91.33	179.45	11,719.0	-6,830.8	251.9	32° 8' 52.500 N	103° 17' 41.617 W
18,000.0	92.07	179.44	11,717.0	-6,898.8	252.6	32° 8' 51.828 N	103° 17' 41.617 W
18,028.0	92.37	179.44	11,715.9	-6,926.7	252.8	32° 8' 51.551 N	103° 17' 41.616 W
18,100.0	92.49	179.16	11,712.9	-6,998.7	253.7	32° 8' 50.839 N	103° 17' 41.614 W
18,122.0	92.53	179.08	11,711.9	-7,020.6	254.0	32° 8' 50.622 N	103° 17' 41.613 W
18,200.0	92.80	179.42	11,708.3	-7,098.5	255.1	32° 8' 49.851 N	103° 17' 41.610 W
18,217.0	92.86	179.49	11,707.5	-7,115.5	255.2	32° 8' 49.683 N	103° 17' 41.610 W
18,300.0	92.63	179.69	11,703.5	-7,198.4	255.8	32° 8' 48.862 N	103° 17' 41.612 W
18,313.0	92.59	179.72	11,702.9	-7,211.4	255.9	32° 8' 48.734 N	103° 17' 41.613 W
18,400.0	92.48	180.22	11,699.0	-7,298.3	255.9	32° 8' 47.874 N	103° 17' 41.622 W
18,408.0	92.47	180.27	11,698.7	-7,306.3	255.9	32° 8' 47.795 N	103° 17' 41.623 W
18,500.0	92.44	182.50	11,694.8	-7,398.2	253.7	32° 8' 46.886 N	103° 17' 41.660 W
18,502.0	92.44	182.55	11,694.7	-7,400.2	253.6	32° 8' 46.866 N	103° 17' 41.661 W
18,597.0	89.58	182.67	11,693.0	-7,495.1	249.3	32° 8' 45.928 N	103° 17' 41.722 W
18,600.0	89.58	182.66	11,693.0	-7,498.1	249.1	32° 8' 45.898 N	103° 17' 41.724 W
18,693.0	89.65	182.22	11,693.6	-7,591.0	245.2	32° 8' 44.979 N	103° 17' 41.780 W
18,700.0	89.71	182.09	11,693.7	-7,598.0	244.9	32° 8' 44.910 N	103° 17' 41.784 W
18,786.0	90.43	180.55	11,693.6	-7,684.0	242.9	32° 8' 44.060 N	103° 17' 41.817 W
18,800.0	90.44	180.54	11,693.5	-7,698.0	242.8	32° 8' 43.921 N	103° 17' 41.820 W
18,881.0	90.47	180.45	11,692.8	-7,778.9	242.1	32° 8' 43.120 N	103° 17' 41.837 W

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Pine Straw 101H
Project:	PIN/DOG	TVD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	MD Reference:	KB @ 3268.0usft
Well:	Pine Straw 101H	North Reference:	Grid
Wellbore:	Final Survey	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
18,900.0	90.94	180.52	11,692.6	-7,797.9	241.9	32° 8' 42.932 N	103° 17' 41.841 W
18,976.0	92.81	180.79	11,690.1	-7,873.9	241.1	32° 8' 42.180 N	103° 17' 41.860 W
19,000.0	92.90	180.72	11,688.9	-7,897.9	240.7	32° 8' 41.943 N	103° 17' 41.866 W
19,072.0	93.15	180.50	11,685.1	-7,969.8	240.0	32° 8' 41.232 N	103° 17' 41.883 W
19,100.0	93.06	180.38	11,683.6	-7,997.7	239.8	32° 8' 40.955 N	103° 17' 41.889 W
19,167.0	92.86	180.08	11,680.1	-8,064.6	239.5	32° 8' 40.293 N	103° 17' 41.899 W
19,200.0	92.97	180.12	11,678.5	-8,097.6	239.4	32° 8' 39.967 N	103° 17' 41.903 W
19,261.0	93.16	180.19	11,675.2	-8,158.5	239.3	32° 8' 39.365 N	103° 17' 41.912 W
19,300.0	92.80	179.98	11,673.2	-8,197.4	239.2	32° 8' 38.979 N	103° 17' 41.917 W
19,356.0	92.29	179.67	11,670.7	-8,253.4	239.4	32° 8' 38.426 N	103° 17' 41.922 W
19,400.0	92.04	179.92	11,669.0	-8,297.4	239.6	32° 8' 37.991 N	103° 17' 41.925 W
19,451.0	91.74	180.22	11,667.4	-8,348.3	239.5	32° 8' 37.486 N	103° 17' 41.931 W
19,500.0	91.83	180.17	11,665.8	-8,397.3	239.3	32° 8' 37.002 N	103° 17' 41.939 W
19,547.0	91.92	180.12	11,664.3	-8,444.3	239.2	32° 8' 36.537 N	103° 17' 41.945 W
19,600.0	92.56	180.01	11,662.2	-8,497.2	239.1	32° 8' 36.013 N	103° 17' 41.952 W
19,642.0	93.06	179.93	11,660.2	-8,539.2	239.2	32° 8' 35.598 N	103° 17' 41.956 W
19,700.0	90.80	179.63	11,658.2	-8,597.2	239.4	32° 8' 35.024 N	103° 17' 41.960 W
19,735.0	89.43	179.45	11,658.1	-8,632.2	239.7	32° 8' 34.678 N	103° 17' 41.961 W
19,800.0	89.48	179.22	11,658.8	-8,697.1	240.4	32° 8' 34.035 N	103° 17' 41.959 W
19,830.0	89.51	179.12	11,659.0	-8,727.1	240.9	32° 8' 33.738 N	103° 17' 41.958 W
19,900.0	89.18	179.12	11,659.8	-8,797.1	241.9	32° 8' 33.045 N	103° 17' 41.953 W
19,925.0	89.06	179.12	11,660.2	-8,822.1	242.3	32° 8' 32.798 N	103° 17' 41.951 W
20,000.0	89.69	179.40	11,661.0	-8,897.1	243.3	32° 8' 32.056 N	103° 17' 41.949 W
20,021.0	89.87	179.48	11,661.1	-8,918.1	243.5	32° 8' 31.848 N	103° 17' 41.949 W
20,100.0	89.28	179.42	11,661.7	-8,997.1	244.2	32° 8' 31.066 N	103° 17' 41.949 W
20,115.0	89.17	179.41	11,661.9	-9,012.1	244.4	32° 8' 30.918 N	103° 17' 41.948 W
20,200.0	89.57	179.11	11,662.8	-9,097.1	245.5	32° 8' 30.077 N	103° 17' 41.945 W
20,210.0	89.62	179.07	11,662.9	-9,107.1	245.7	32° 8' 29.978 N	103° 17' 41.944 W
20,300.0	93.65	179.03	11,660.3	-9,197.0	247.1	32° 8' 29.088 N	103° 17' 41.937 W
20,305.0	93.87	179.03	11,660.0	-9,202.0	247.2	32° 8' 29.039 N	103° 17' 41.937 W
20,400.0	94.19	179.14	11,653.3	-9,296.8	248.7	32° 8' 28.101 N	103° 17' 41.930 W
20,401.0	94.19	179.14	11,653.3	-9,297.8	248.8	32° 8' 28.091 N	103° 17' 41.930 W
20,495.0	94.36	179.07	11,646.2	-9,391.5	250.2	32° 8' 27.164 N	103° 17' 41.923 W
20,500.0	94.34	179.13	11,645.9	-9,396.5	250.3	32° 8' 27.114 N	103° 17' 41.923 W
20,590.0	94.00	180.13	11,639.3	-9,486.2	250.9	32° 8' 26.226 N	103° 17' 41.926 W
20,600.0	93.92	180.18	11,638.6	-9,496.2	250.9	32° 8' 26.127 N	103° 17' 41.928 W
20,685.0	93.25	180.60	11,633.3	-9,581.0	250.3	32° 8' 25.288 N	103° 17' 41.944 W
20,700.0	93.10	180.57	11,632.5	-9,596.0	250.1	32° 8' 25.140 N	103° 17' 41.947 W
20,780.0	92.31	180.44	11,628.7	-9,675.9	249.4	32° 8' 24.349 N	103° 17' 41.965 W
20,800.0	92.26	180.47	11,627.9	-9,695.9	249.3	32° 8' 24.152 N	103° 17' 41.969 W
20,875.0	92.05	180.59	11,625.1	-9,770.8	248.6	32° 8' 23.410 N	103° 17' 41.985 W
20,900.0	91.96	180.52	11,624.2	-9,795.8	248.3	32° 8' 23.163 N	103° 17' 41.991 W
20,970.0	91.69	180.33	11,622.0	-9,865.8	247.8	32° 8' 22.471 N	103° 17' 42.005 W
21,000.0	91.55	180.31	11,621.1	-9,895.8	247.6	32° 8' 22.174 N	103° 17' 42.010 W



Ameredev Operating, LLC
Lease Penetration Section Line Footages

Company:	Ameredev Operating, LLC.	Local Co-ordinate Reference:	Well Pine Straw 101H
Project:	PIN/DOG	TVD Reference:	KB @ 3268.0usft
Site:	PIN/DOG #1S	MD Reference:	KB @ 3268.0usft
Well:	Pine Straw 101H	North Reference:	Grid
Wellbore:	Final Survey	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM5000

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	+FSL/-FNL (usft)	+FWL/-FEL (usft)	Latitude	Longitude
21,065.0	91.24	180.28	11,619.6	-9,960.8	247.3	32° 8' 21.531 N	103° 17' 42.021 W
21,100.0	91.08	180.34	11,618.9	-9,995.8	247.1	32° 8' 21.185 N	103° 17' 42.027 W
21,159.0	90.80	180.43	11,617.9	-10,054.7	246.7	32° 8' 20.601 N	103° 17' 42.038 W
21,200.0	90.59	180.35	11,617.4	-10,095.7	246.4	32° 8' 20.196 N	103° 17' 42.046 W
21,254.0	90.31	180.24	11,617.0	-10,149.7	246.2	32° 8' 19.662 N	103° 17' 42.056 W
21,300.0	90.07	180.08	11,616.8	-10,195.7	246.0	32° 8' 19.206 N	103° 17' 42.062 W
21,350.0	89.81	179.90	11,616.9	-10,245.7	246.0	32° 8' 18.712 N	103° 17' 42.068 W
21,400.0	90.09	180.09	11,616.9	-10,295.7	246.0	32° 8' 18.217 N	103° 17' 42.073 W
21,443.0	90.34	180.25	11,616.7	-10,338.7	245.9	32° 8' 17.791 N	103° 17' 42.080 W
21,500.0	89.83	180.17	11,616.7	-10,395.7	245.7	32° 8' 17.227 N	103° 17' 42.088 W
21,533.0	89.53	180.13	11,616.9	-10,428.7	245.6	32° 8' 16.901 N	103° 17' 42.093 W
PS101 As Drilled LTP							
21,598.0	89.53	180.13	11,617.4	-10,493.7	245.5	32° 8' 16.258 N	103° 17' 42.102 W
PS101 As Drilled BHL							

Checked By: _____	Approved By: _____	Date: _____
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Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number



Aim Directional Services

Pine Straw Fed Com 25 36 05 101H_ST01

Scale 5":100' - MD

12/29/2019 3:38 AM

Oper. Company: Ameredev

State: NM

Well: Pine Straw Fed Com 25 36 05 101H_ST01

County: Lea

Field: Permian

Country: US

Rig: Unit 103

Location: Lea

Well ID: 30-025-46288

Start Date: 11/19/2019 04:30:00

Job Number: WT-19-179

End Date: 12/28/2019 02:15:00

Latitude: 32° 9' 57.779 N

Elev GL: 3241

Longitude: 103° 17' 40.433 W

Elev DF: 3268

Elev KB: 3268

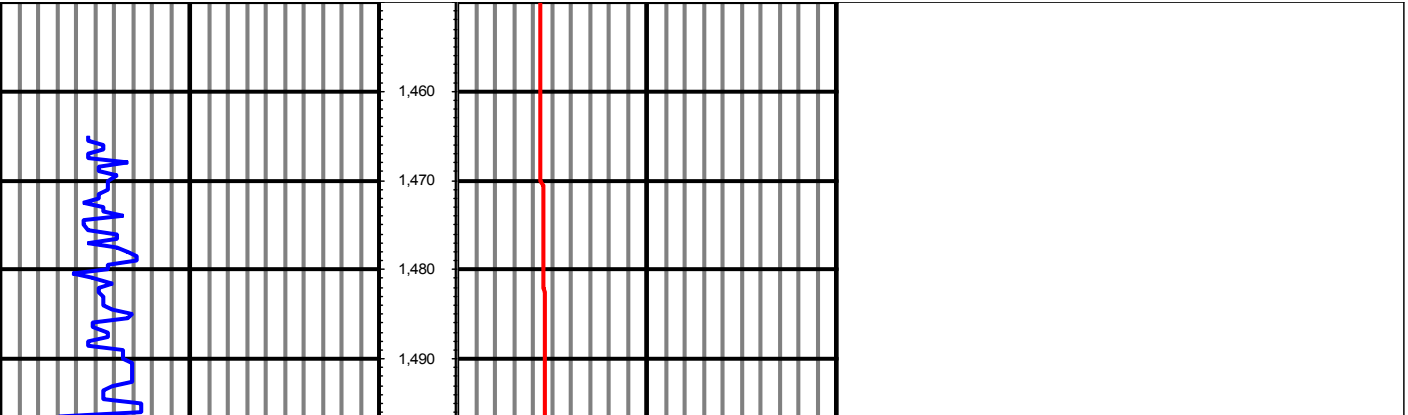
Operator 1: Charles Caron

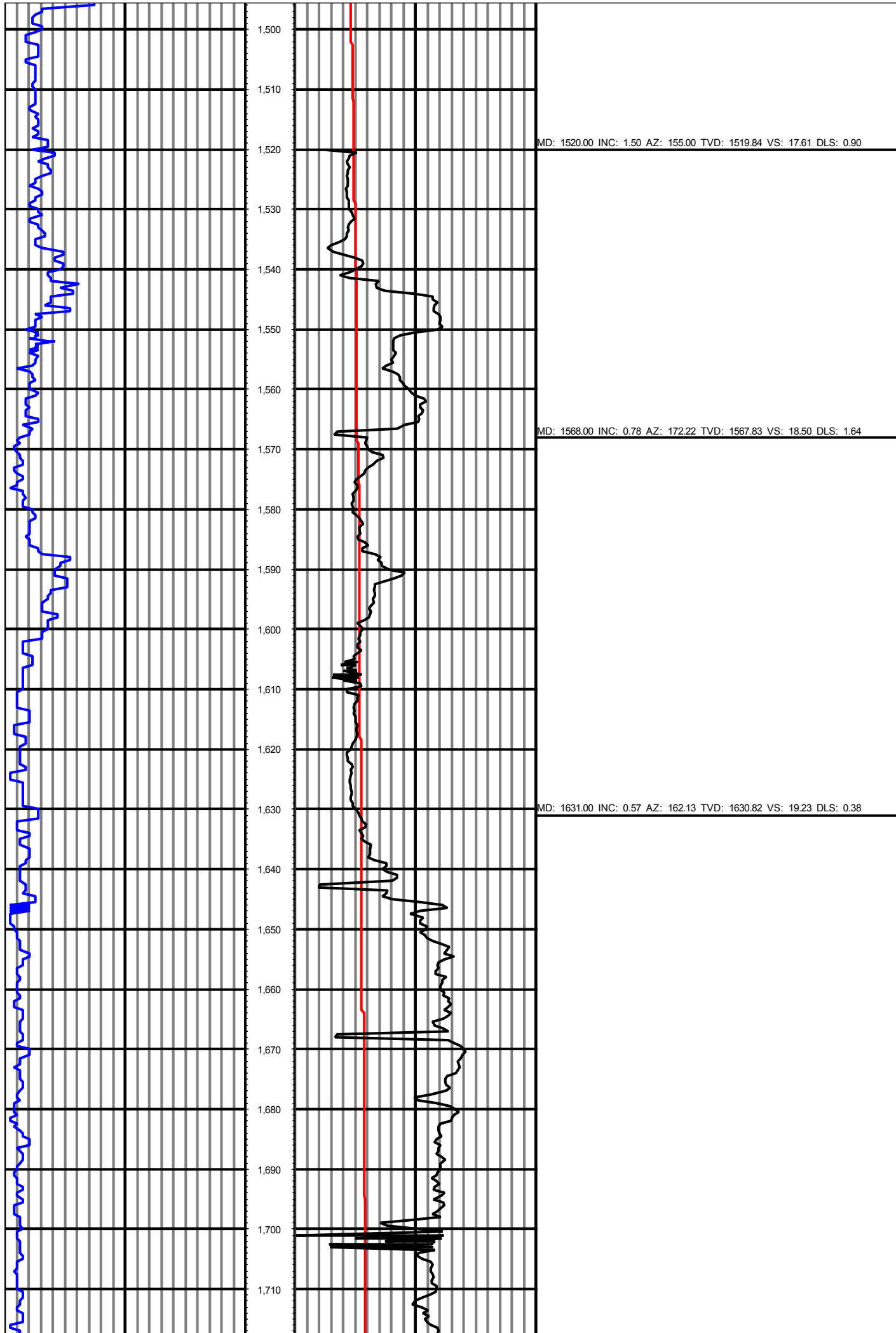
Operator 2: RTOC

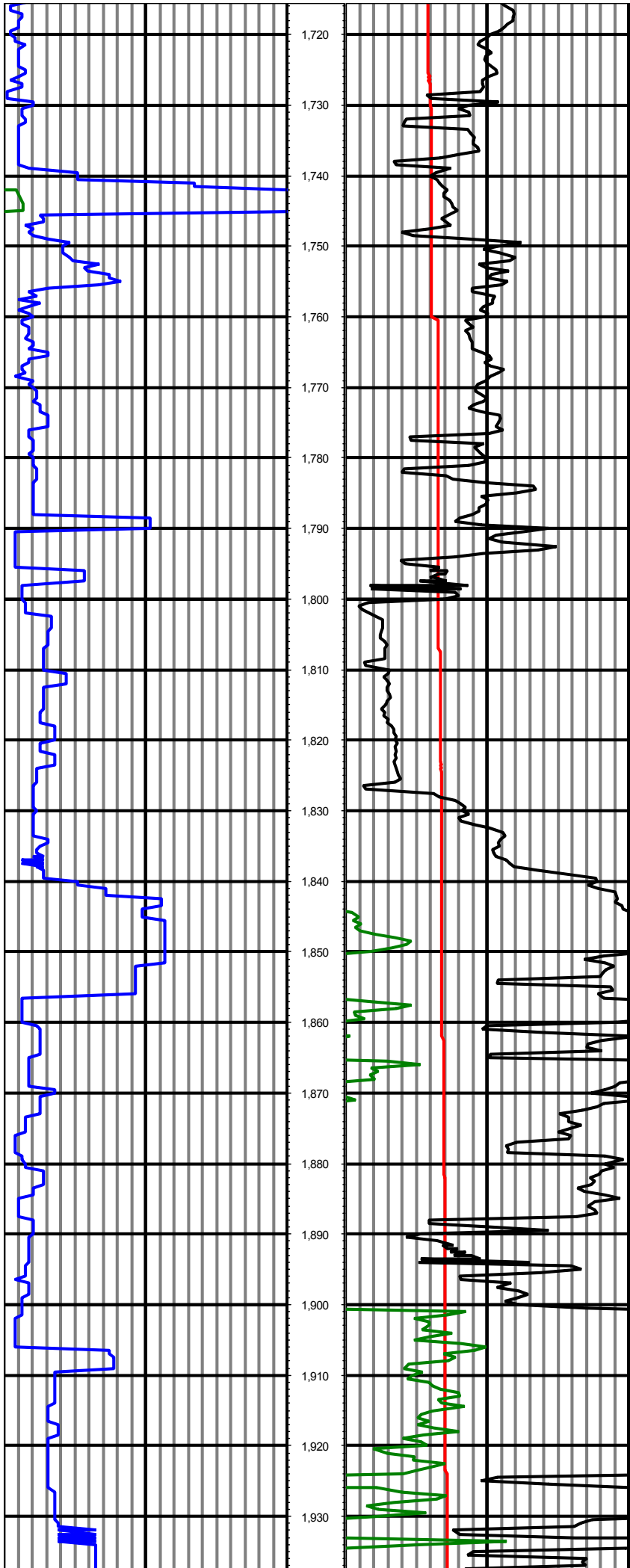
Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	G-78	G-78	G-091	G-091	G-091
Bit Size	9 7/8	12 1/4	9 7/8	9 7/8	9 7/8
Cal Factor	7.756	7.756	7.784	7.784	7.784
Survey Offset	70.00	73.00	73.00	73.00	73.00
Gamma Offset	55.00	58.00	58.00	58.00	58.00
Resistivity Offset	0.00	0.00	0.00	0.00	0.00
Start Depth	1520.00	4323.00	5323.00	8169.00	8909.00
StartDate	11/19/2019	11/20/2019	11/24/2019	11/26/2019	11/28/2019
StartTime	04:30	19:00	03:30	20:30	06:30
EndDepth	4323.00	5323.00	8169.00	8909.00	9456.00
EndDate	11/20/2019	11/22/2019	11/26/2019	11/26/2019	11/29/2019
EndTime	15:30	02:30	19:30	06:00	06:30
Mud Type	WBM	WBM	WBM	WBM	WBM
Mud Weight	8.75 ppg	8.4 ppg	8.8 ppg	8.7 ppg	8.9 ppg
Funnel Viscosity	82 (sec/qt)	28 (sec/qt)	80 (sec/qt)	100 (sec/qt)	105 (sec/qt)
Plastic Viscosity	18 (cP)	1 (cP)	27 (cP)	30 (cP)	27 (cP)
Yield Point	14 (lbf/100ft2)	4 (lbf/100ft2)	21 (lbf/100ft2)	28 (lbf/100ft2)	29 (lbf/100ft2)
Gel Strength	7 (10sec) (lbf/100ft2)	1 (10sec) (lbf/100ft2)	4 (10sec) (lbf/100ft2)	5 (10sec) (lbf/100ft2)	6 (10sec) (lbf/100ft2)
Solids Content	10 %	1 %	11 %	11 %	12 %
Sand Content	0	0	0	0	0
Mud Alkalinity	1.1 (Pm) (ml)	0.1 (Pm) (ml)	1.3 (Pm) (ml)	1.2 (Pm) (ml)	1.6 (Pm) (ml)
Filtrate Alkalinity	0.1 (Pf) (ml)	0.1 (Pf) (ml)	0.15 (Pm) (ml)	0.2 (Pm) (ml)	0.2 (Pm) (ml)
Chlorides	197000 (mg/L)	9800 (mg/L)	180250 (mg/L)	17000 (mg/L)	165000 (mg/L)
Temperature	113°F	86°F	152°F	134°F	152°F
Tool Run Data	Run #6	Run #7	Run #8	Run #9	Run #10
Tool S/N	G-091	G-026	G-026	G-041	G-026
Bit Size	9 7/8	6 3/4	6 3/4	6 3/4	6 3/4
Cal Factor	7.784	2.767	2.665	2.683	2.665
Survey Offset	73.00	65.00	62.00	64.00	63.00
Gamma Offset	58.00	50.00	47.00	49.00	48.00
Resistivity Offset	0.00	0.00	0.00	0.00	0.00
Start Depth	9456.00	10674.00	10990.00	11955.00	16670.00
StartDate	11/29/2019	12/4/2019	12/6/2019	12/12/2019	12/18/2019
StartTime	07:00	04:00	23:45	06:55	19:00
EndDepth	10674.00	10990.00	11955.00	16670.00	17935.00
EndDate	12/1/2019	12/5/2019	12/11/2019	12/18/2019	12/21/2019
EndTime	13:30	04:15	17:06	17:30	07:30
Mud Type	WBM	WBM	OBM	OBM	OBM
Mud Weight	9.1 ppg	11 ppg	10.7 ppg	10.7 ppg	10.7 ppg

Funnel Viscosity	90 (sec/qt)	43 (sec/qt)	70 (sec/qt)	58 (sec/qt)	57 (sec/qt)
Plastic Viscosity	33 (cP)	11 (cP)	15 (cP)	13 (cP)	14 (cP)
Yield Point	30 (lbf/100ft2)	12 (lbf/100ft2)	10 (lbf/100ft2)	9 (lbf/100ft2)	10 (lbf/100ft2)
Gel Strength	6 (10sec) (lbf/100ft2)	4 (10sec) (lbf/100ft2)	10 (10sec) (lbf/100ft2)	8 (10sec) (lbf/100ft2)	9 (10sec) (lbf/100ft2)
Solids Content	11 %	13 %	16.5 %	16%	16 %
Sand Content	0	0	0	0	0
Mud Alkalinity	1.7 (Pm) (ml)	0.1 (Pm) (ml)	4.8 (Pm) (cc/cc)	4.6 (Pm) (cc/cc)	4.7 (Pm) (cc/cc)
Filtrate Alkalinity	0.2 (Pm) (ml)	0.25 (Pf) (ml)	N/A	N/A	N/A
Chlorides	172000 (mg/L)	175500 (mg/L)	50000 (mg/L)	49000 (mg/L)	46000 (mg/L)
Temperature	169°F	159°F	163°F	188°F	204°F
Tool Run Data	Run #11	Run #12	Run #13	Run #14	Run #15
Tool S/N	G-026	G-029			
Bit Size	6 3/4	6 3/4			
Cal Factor	2.665	3.027			
Survey Offset	63.00	65.00			
Gamma Offset	48.00	50.00			
Resistivity Offset	0.00	0.00			
Start Depth	17935.00	19743.00			
StartDate	12/21/2019	12/25/2019			
StartTime	08:00	06:30			
EndDepth	19743.00	21598.00			
EndDate	12/25/2019	12/29/2019			
EndTime	04:30	01:00			
Mud Type	OBM	OBM			
Mud Weight	10.7 ppg	10.75 ppg			
Funnel Viscosity	58 (sec/qt)	63 (sec/qt)			
Plastic Viscosity	13 (cP)	13 (cP)			
Yield Point	10 (lbf/100ft2)	11 (lbf/100ft2)			
Gel Strength	10 (10sec) (lbf/100ft2)	10 (10sec) (lbf/100ft2)			
Solids Content	16 %	16.2 %			
Sand Content	0	0			
Mud Alkalinity	4.7 (Pm) (cc/cc)	4.6 (Pm) (cc/cc)			
Filtrate Alkalinity	N/A	N/A			
Chlorides	45000 (mg/L)	46000 (mg/L)			
Temperature	199°F	199°F			
Hole Data			Casing Data		
Size	From	To	Size	From	To
17.5	0.00	1520.00	13.375	0.00	1520.00
12.25	1520.00	5323.00	10.75	0.00	5323.00
9.88	5323.00	10674.00	7.625	0.00	10663.00
6.75	10674.00	21598.00			

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.



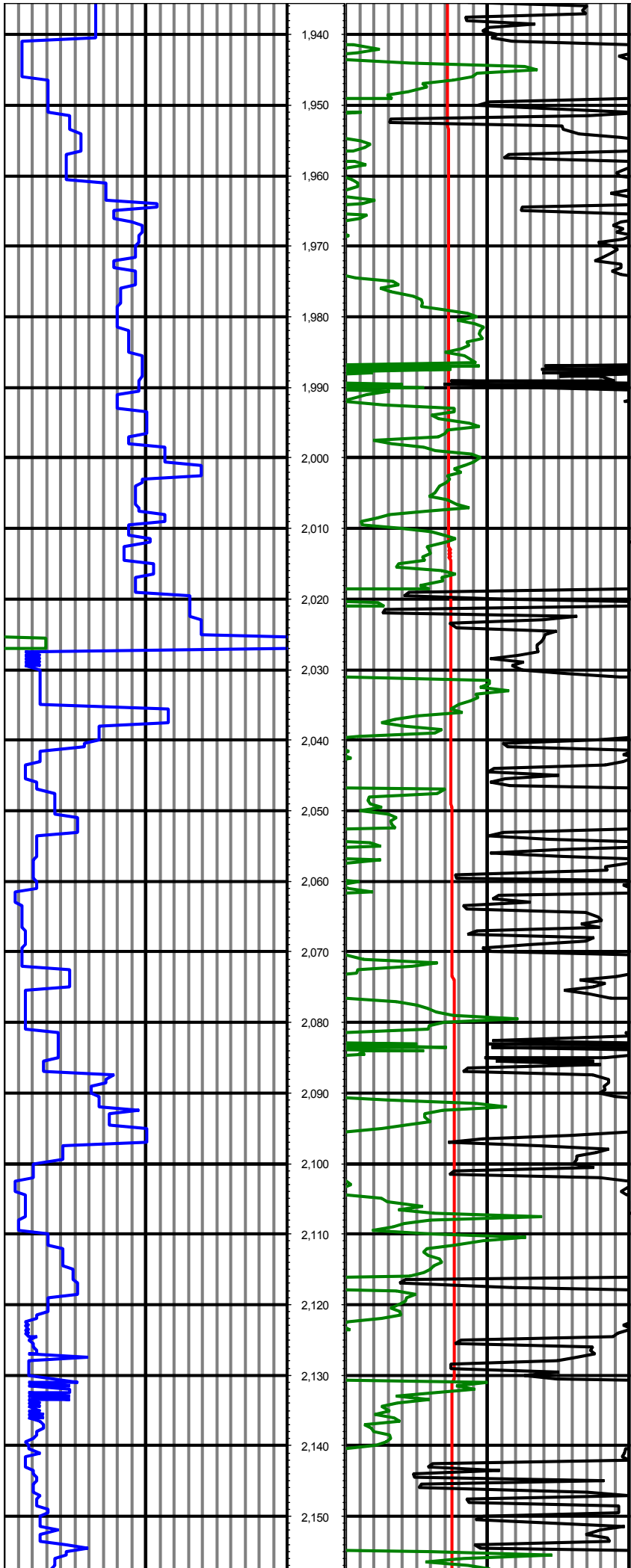




MD: 1726.00 INC: 1.52 AZ: 136.38 TVD: 1725.81 VS: 20.59 DLS: 1.09

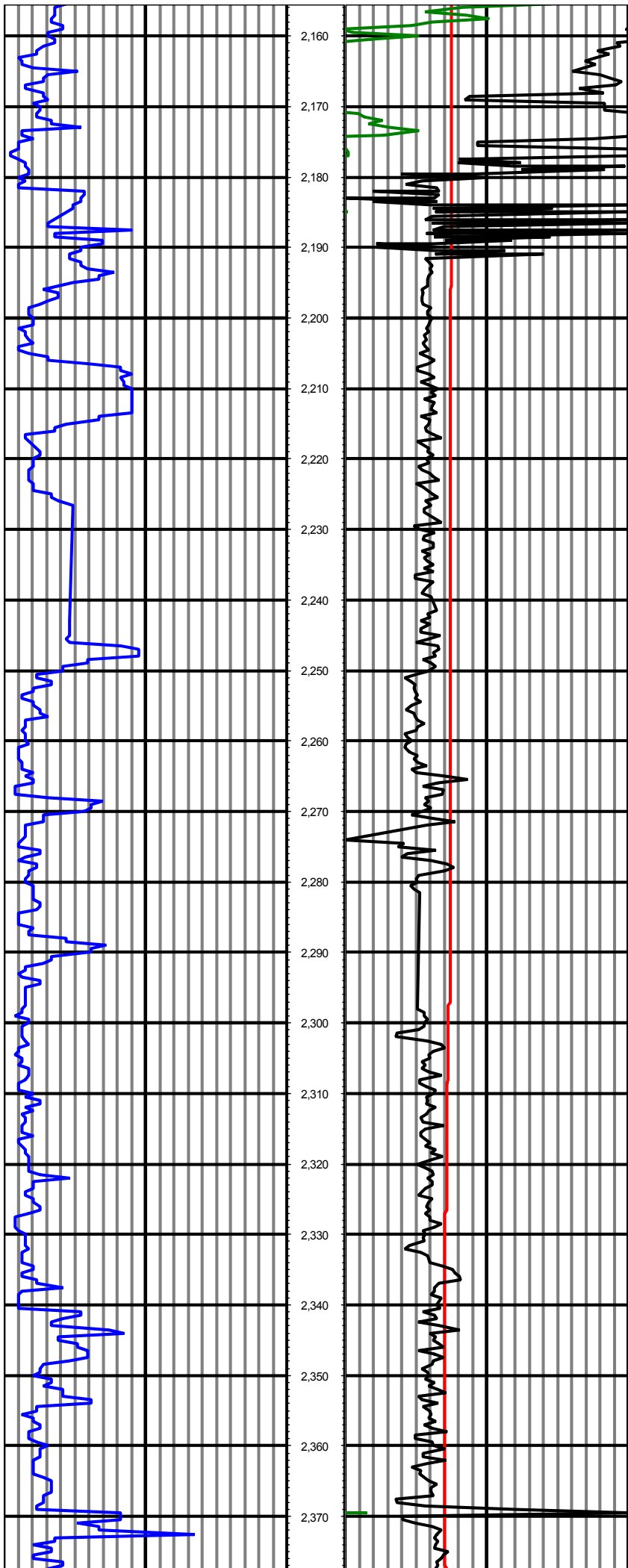
MD: 1821.00 INC: 0.25 AZ: 115.34 TVD: 1820.79 VS: 21.59 DLS: 1.36

MD: 1917.00 INC: 0.57 AZ: 329.70 TVD: 1916.79 VS: 21.27 DLS: 0.82



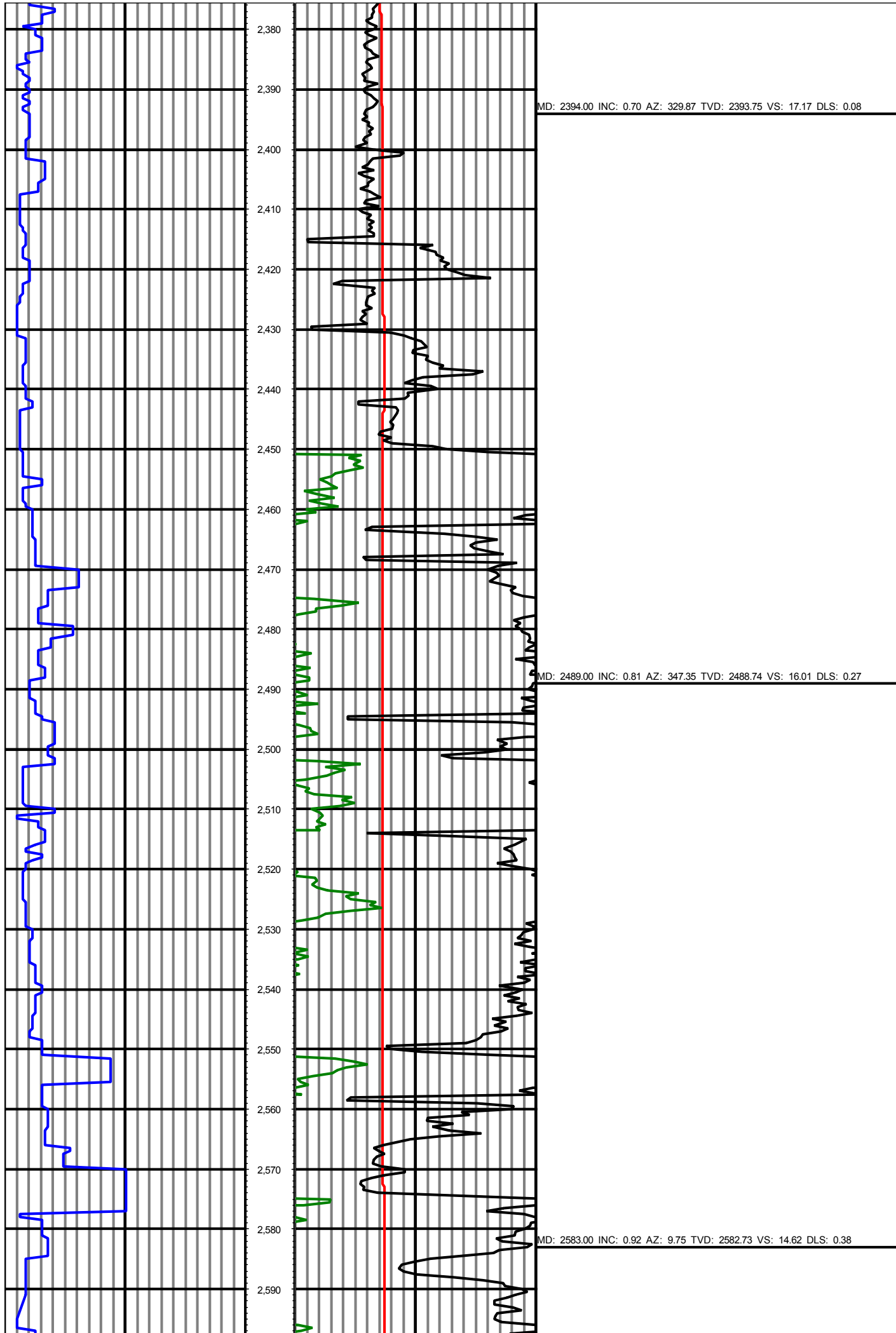
MD: 2012.00 INC: 0.84 AZ: 287.16 TVD: 2011.79 VS: 20.65 DLS: 0.60

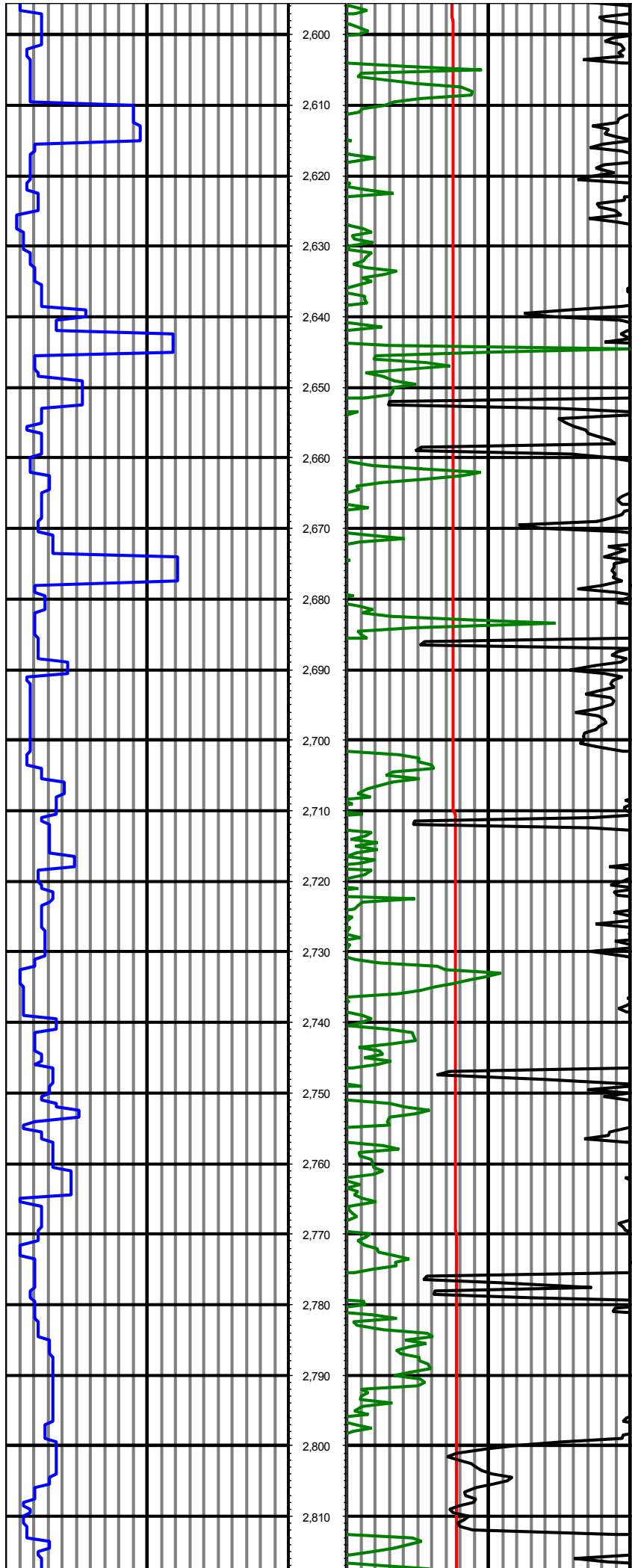
MD: 2107.00 INC: 0.99 AZ: 301.85 TVD: 2106.77 VS: 20.01 DLS: 0.29



MD: 2203.00 INC: 0.82 AZ: 314.58 TVD: 2202.76 VS: 19.09 DLS: 0.27

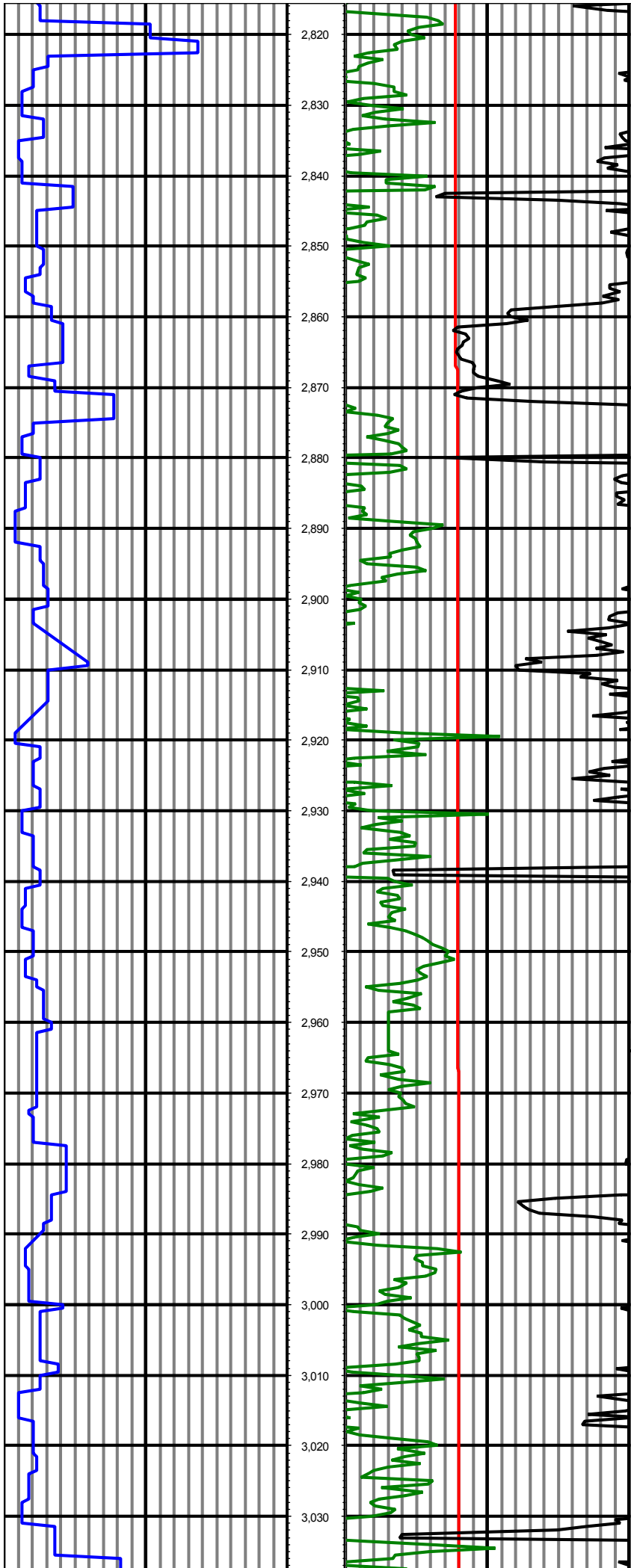
MD: 2299.00 INC: 0.70 AZ: 323.55 TVD: 2298.75 VS: 18.14 DLS: 0.18





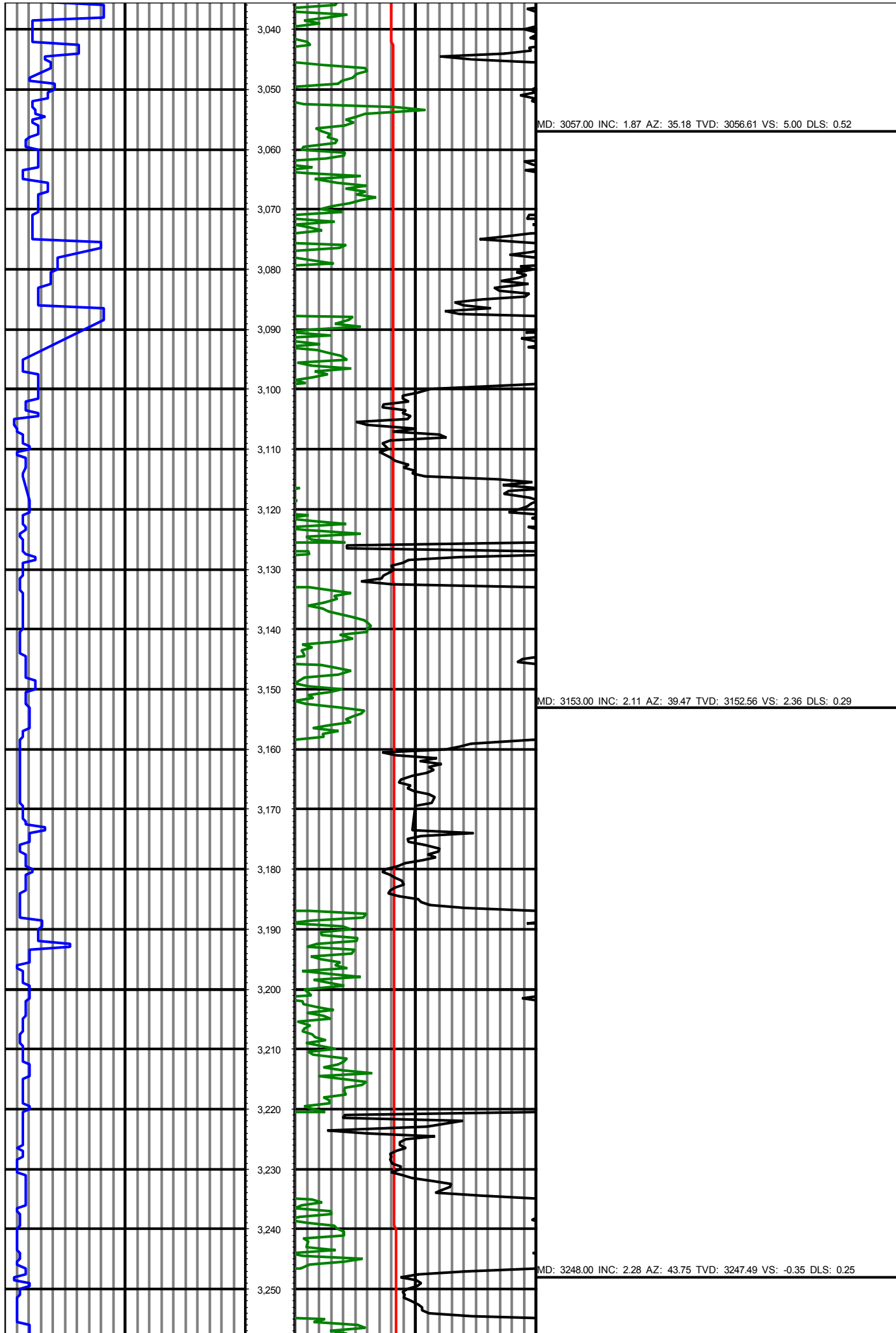
MD: 2678.00 INC: 1.03 AZ: 9.66 TVD: 2677.72 VS: 13.03 DLS: 0.12

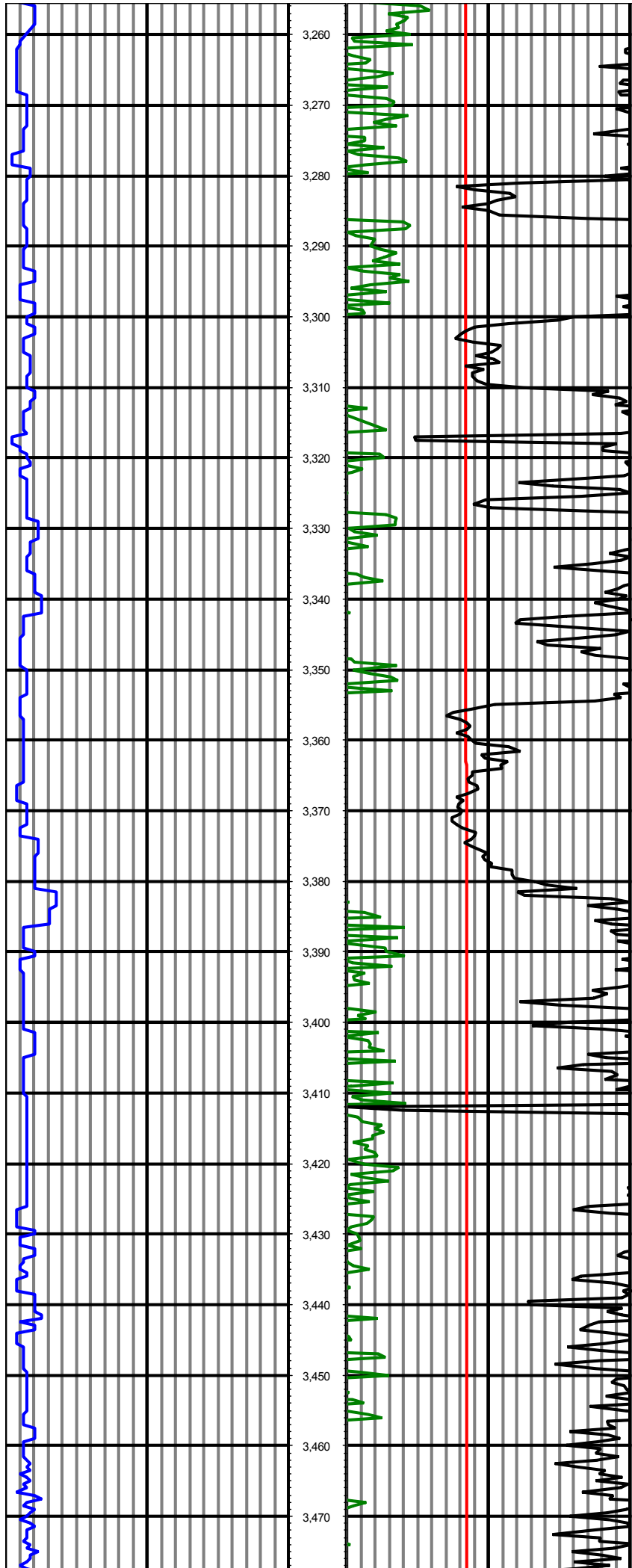
MD: 2774.00 INC: 1.11 AZ: 12.19 TVD: 2773.70 VS: 11.27 DLS: 0.10



MD: 2870.00 INC: 1.26 AZ: 13.12 TVD: 2869.68 VS: 9.33 DLS: 0.16

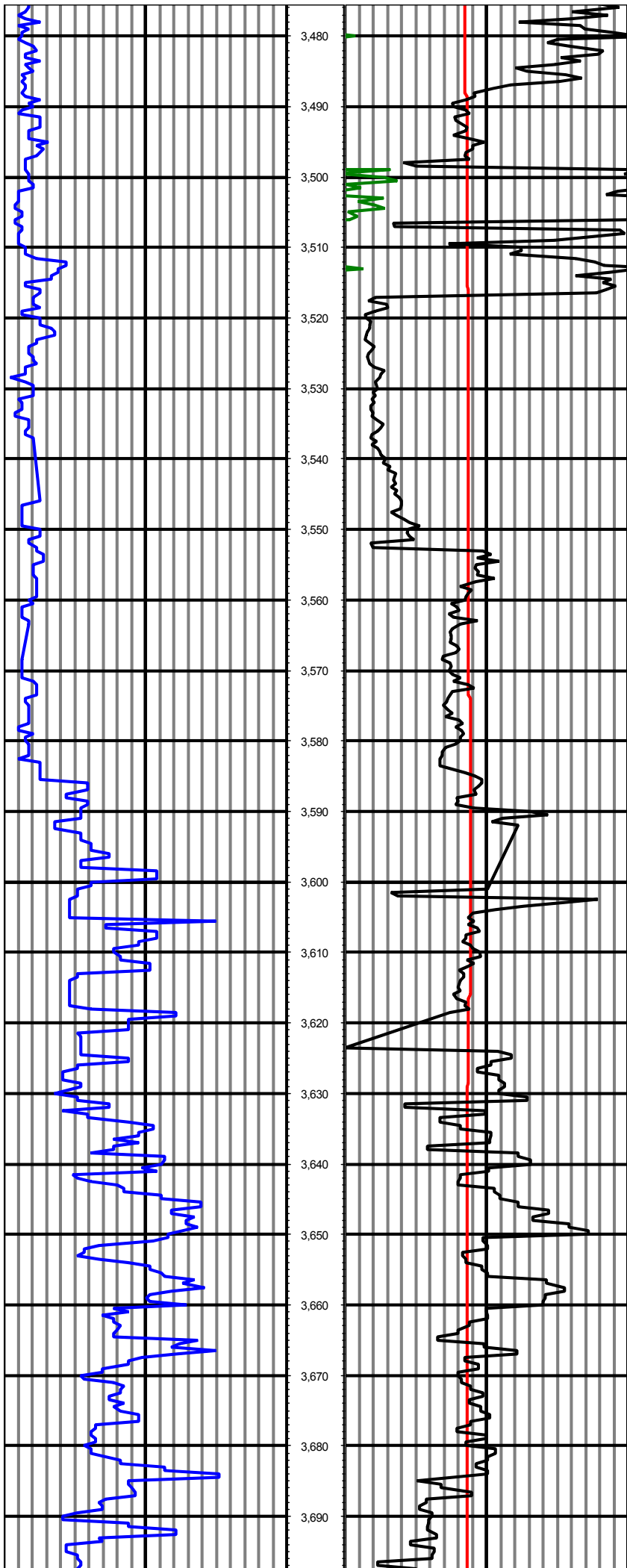
MD: 2964.00 INC: 1.44 AZ: 27.45 TVD: 2963.65 VS: 7.28 DLS: 0.41





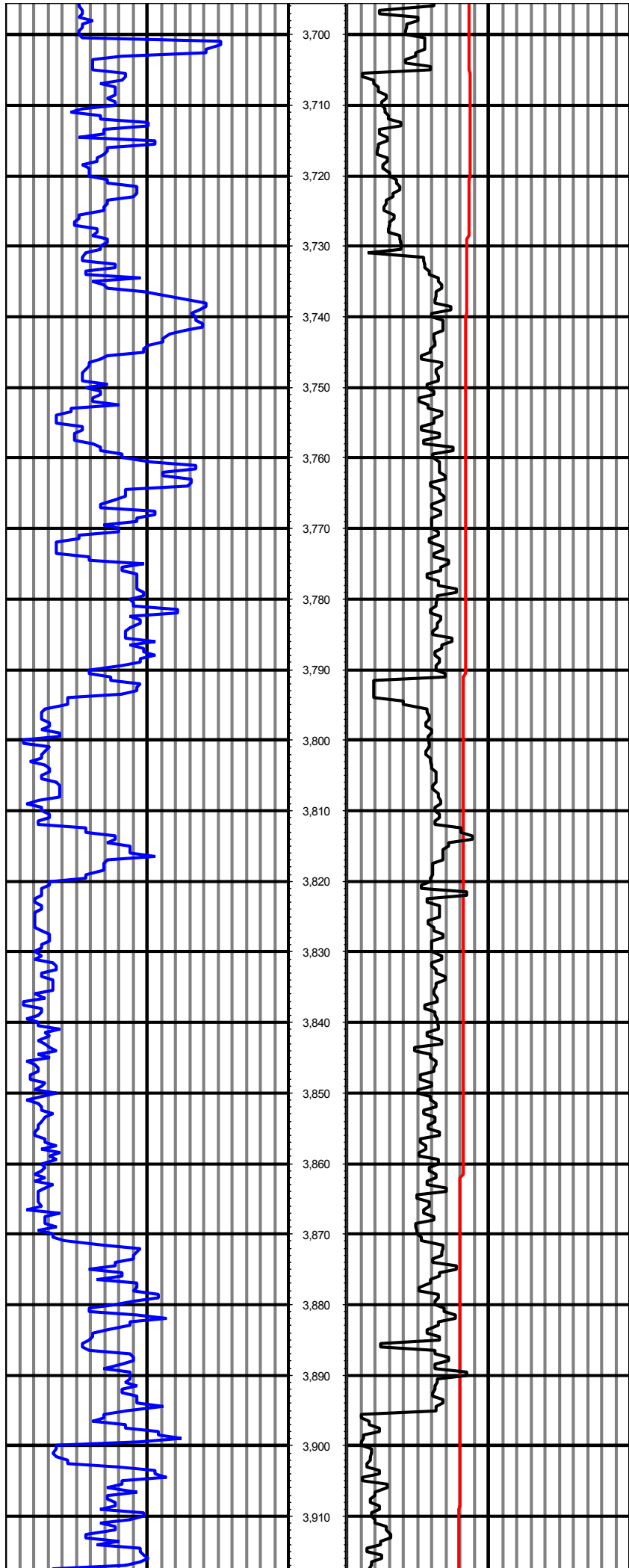
MD: 3343.00 INC: 2.60 AZ: 47.65 TVD: 3342.40 VS: -3.17 DLS: 0.38

MD: 3438.00 INC: 2.75 AZ: 57.96 TVD: 3437.30 VS: -5.82 DLS: 0.53



MD: 3533.00 INC: 1.91 AZ: 54.89 TVD: 3532.22 VS: -7.94 DLS: 0.89

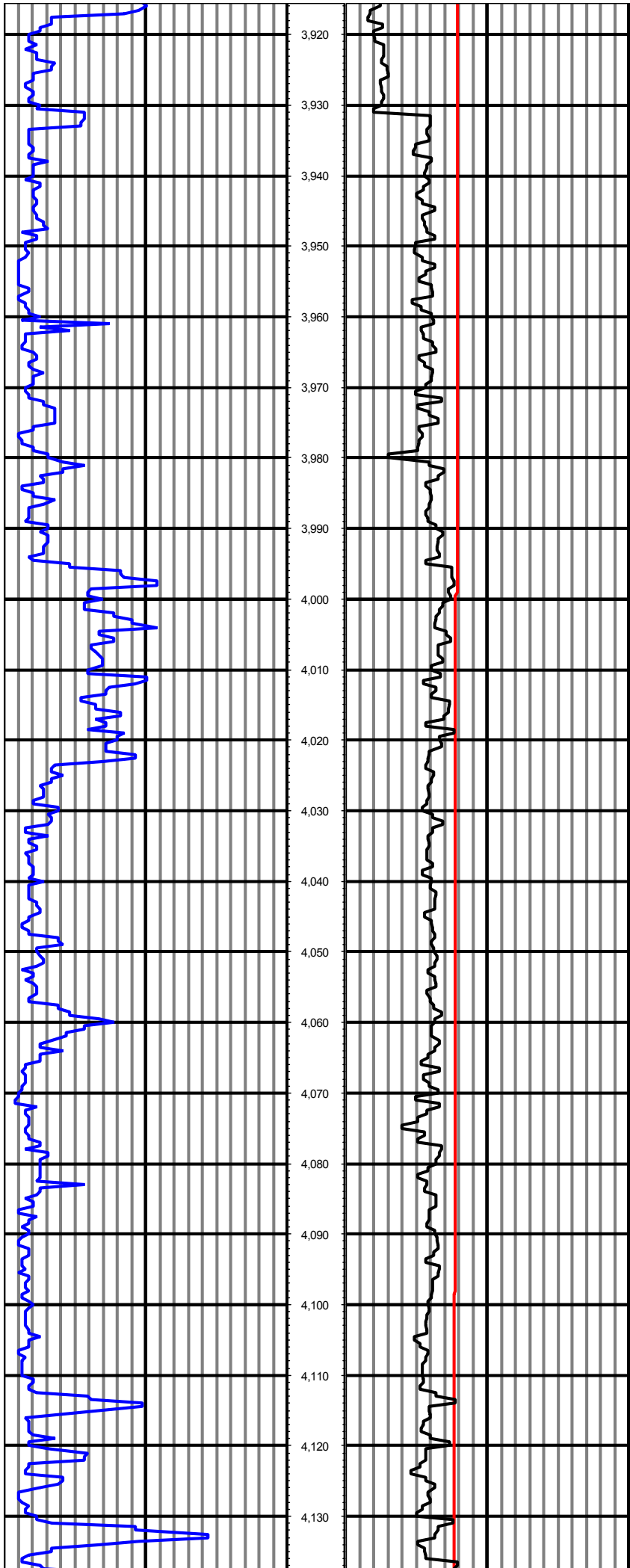
MD: 3627.00 INC: 1.32 AZ: 24.19 TVD: 3626.18 VS: -9.83 DLS: 1.09



MD: 3722.00 INC: 1.38 AZ: 14.07 TVD: 3721.15 VS: -11.93 DLS: 0.26

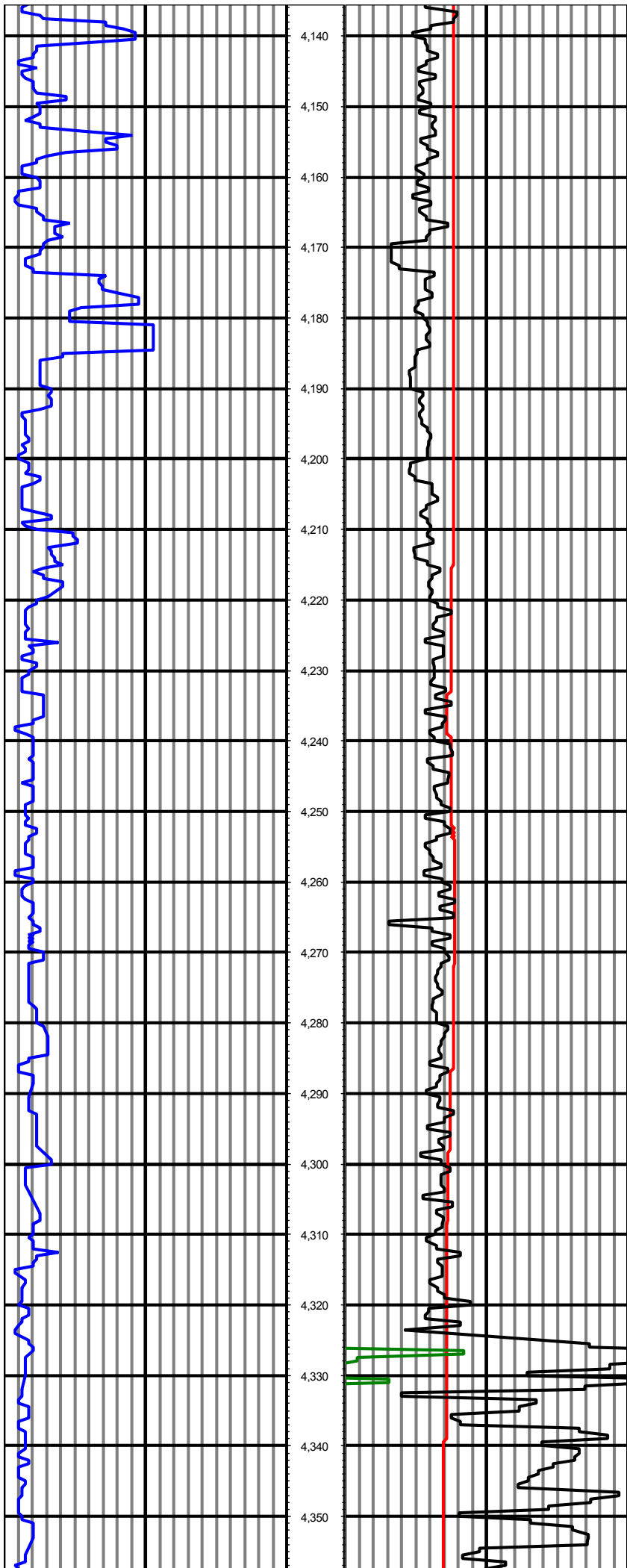
MD: 3816.00 INC: 1.45 AZ: 359.52 TVD: 3815.13 VS: -14.22 DLS: 0.39

MD: 3910.00 INC: 1.12 AZ: 348.77 TVD: 3909.10 VS: -16.31 DLS: 0.43



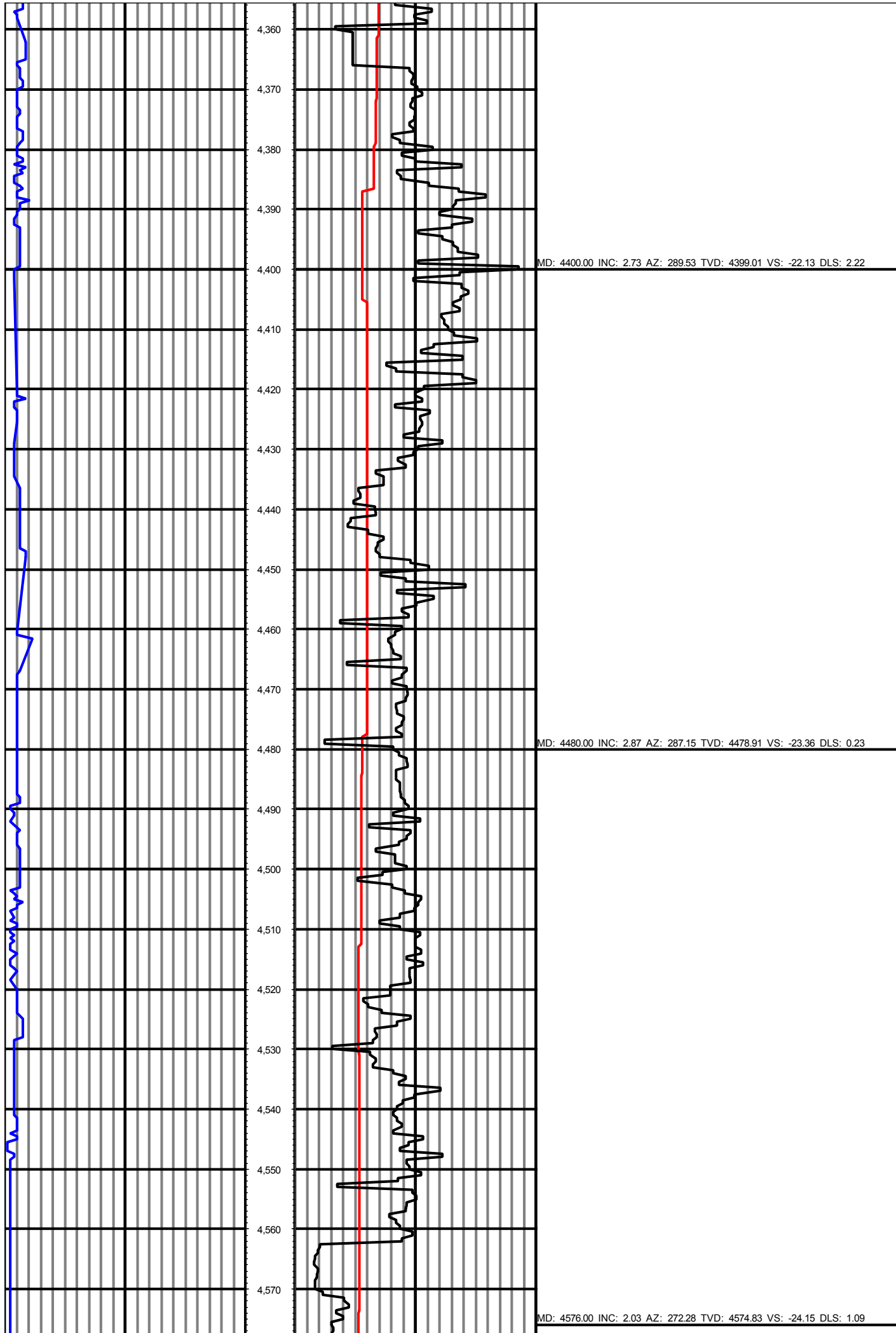
MD: 4005.00 INC: 0.94 AZ: 314.27 TVD: 4004.09 VS: -17.77 DLS: 0.67

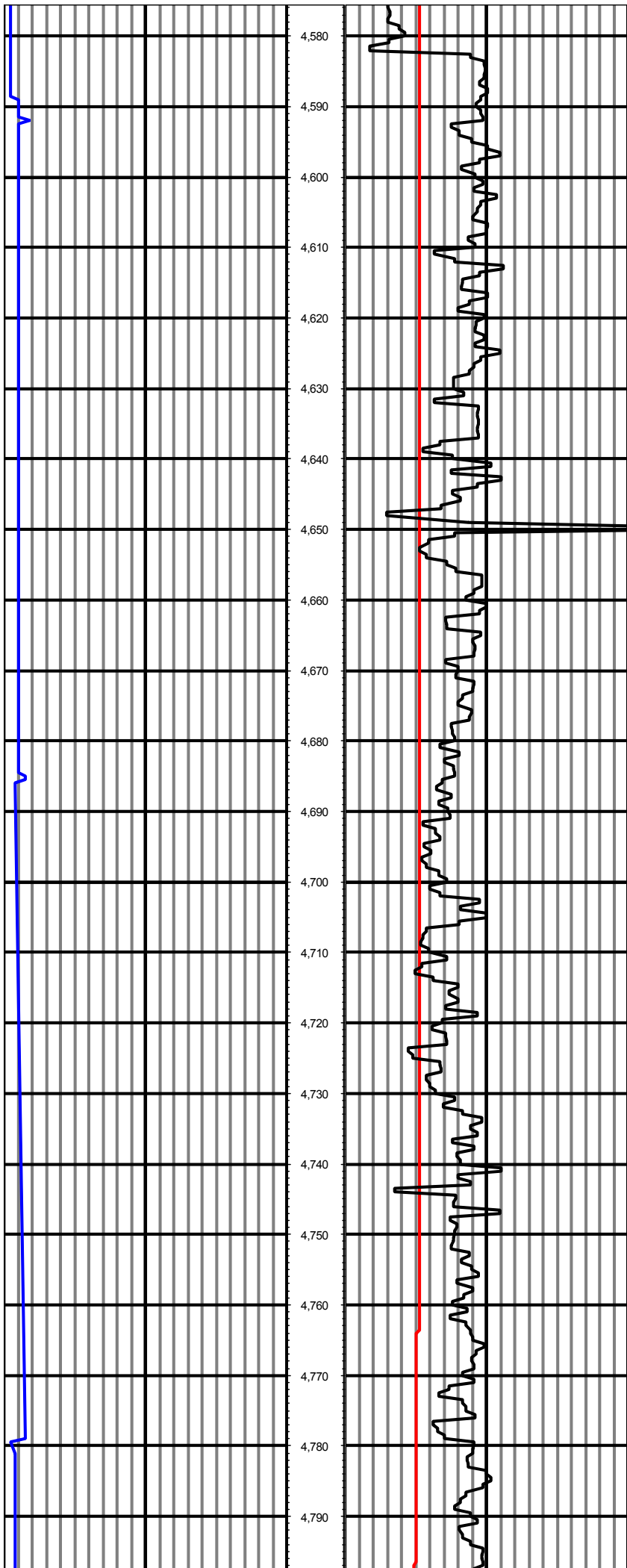
MD: 4101.00 INC: 0.83 AZ: 316.11 TVD: 4100.08 VS: -18.82 DLS: 0.12



MD: 4195.00 INC: 0.94 AZ: 317.39 TVD: 4194.07 VS: -19.88 DLS: 0.12

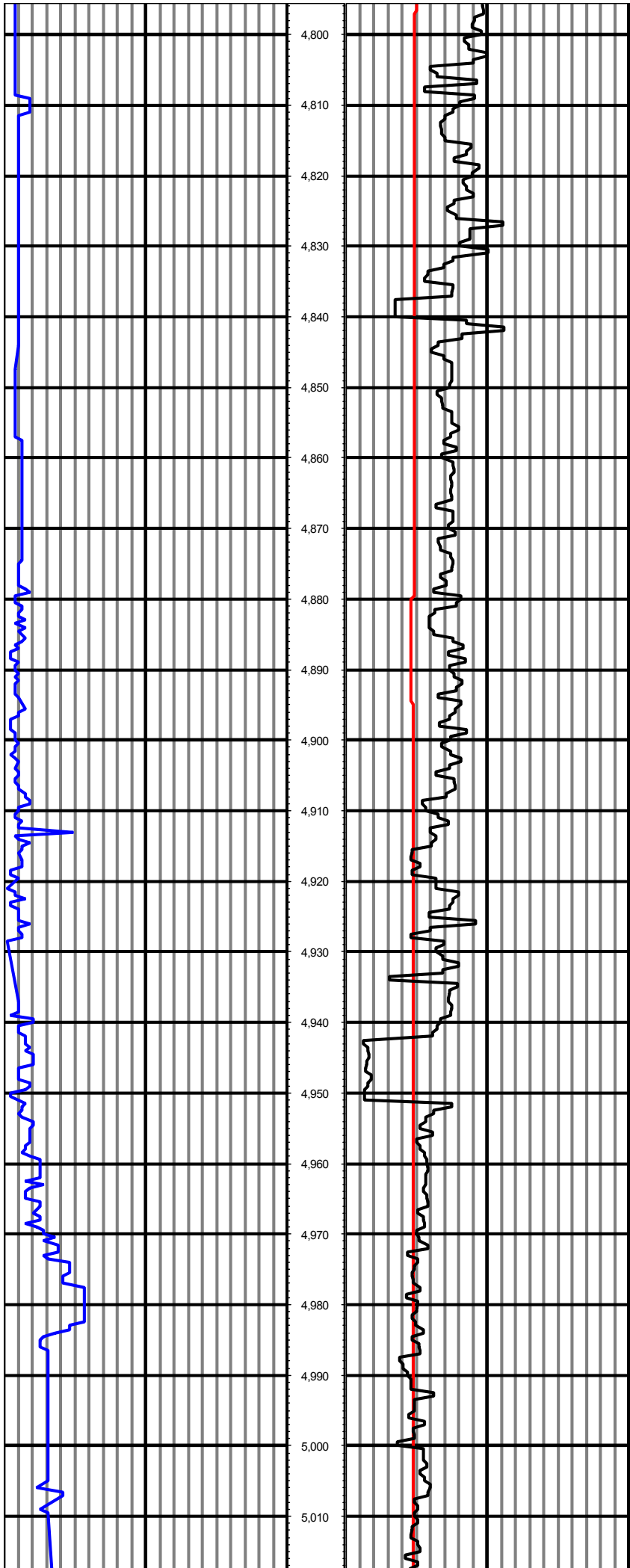
MD: 4290.00 INC: 0.48 AZ: 339.04 TVD: 4289.06 VS: -20.82 DLS: 0.55





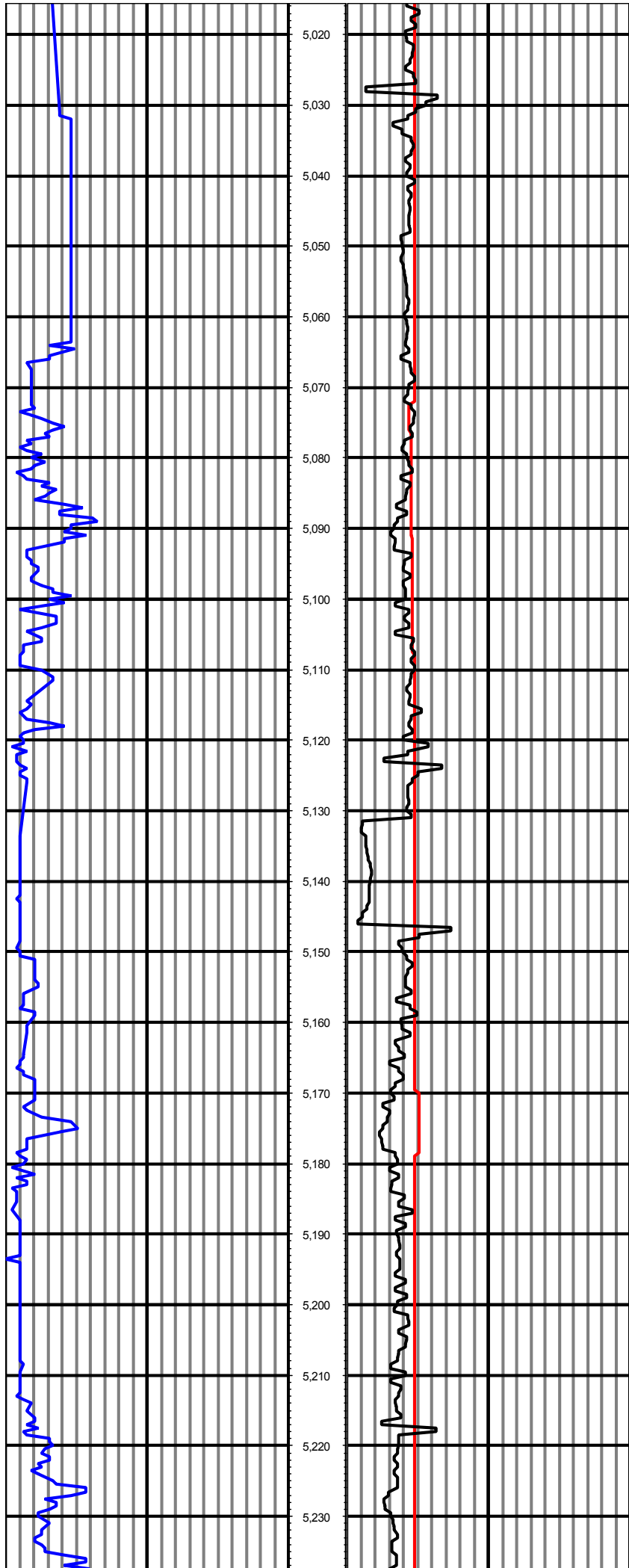
MD: 4671.00 INC: 1.79 AZ: 260.71 TVD: 4669.77 VS: -23.98 DLS: 0.48

MD: 4765.00 INC: 1.40 AZ: 269.31 TVD: 4763.74 VS: -23.73 DLS: 0.49



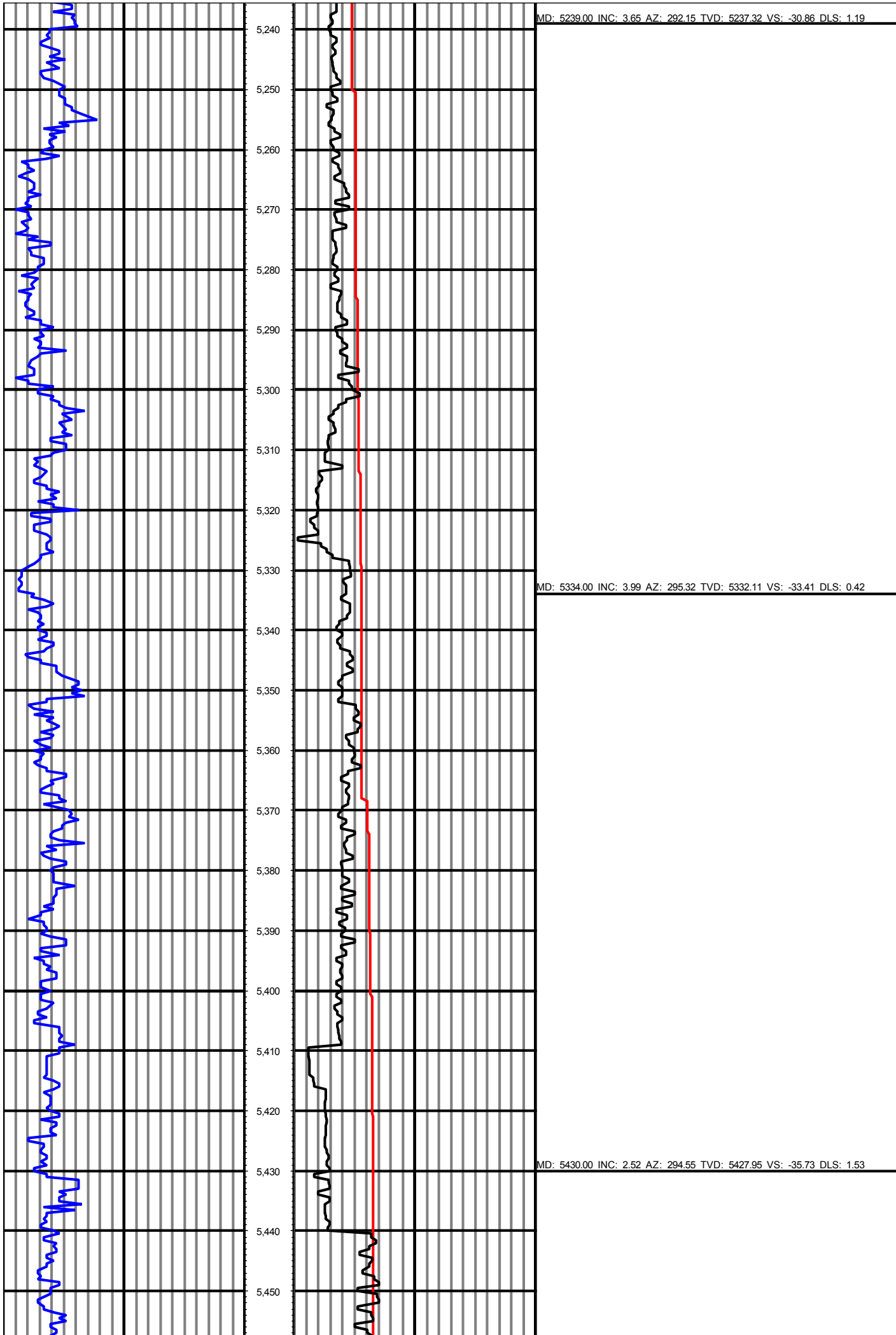
MD: 4860.00 INC: 2.12 AZ: 282.90 TVD: 4858.69 VS: -24.11 DLS: 0.87

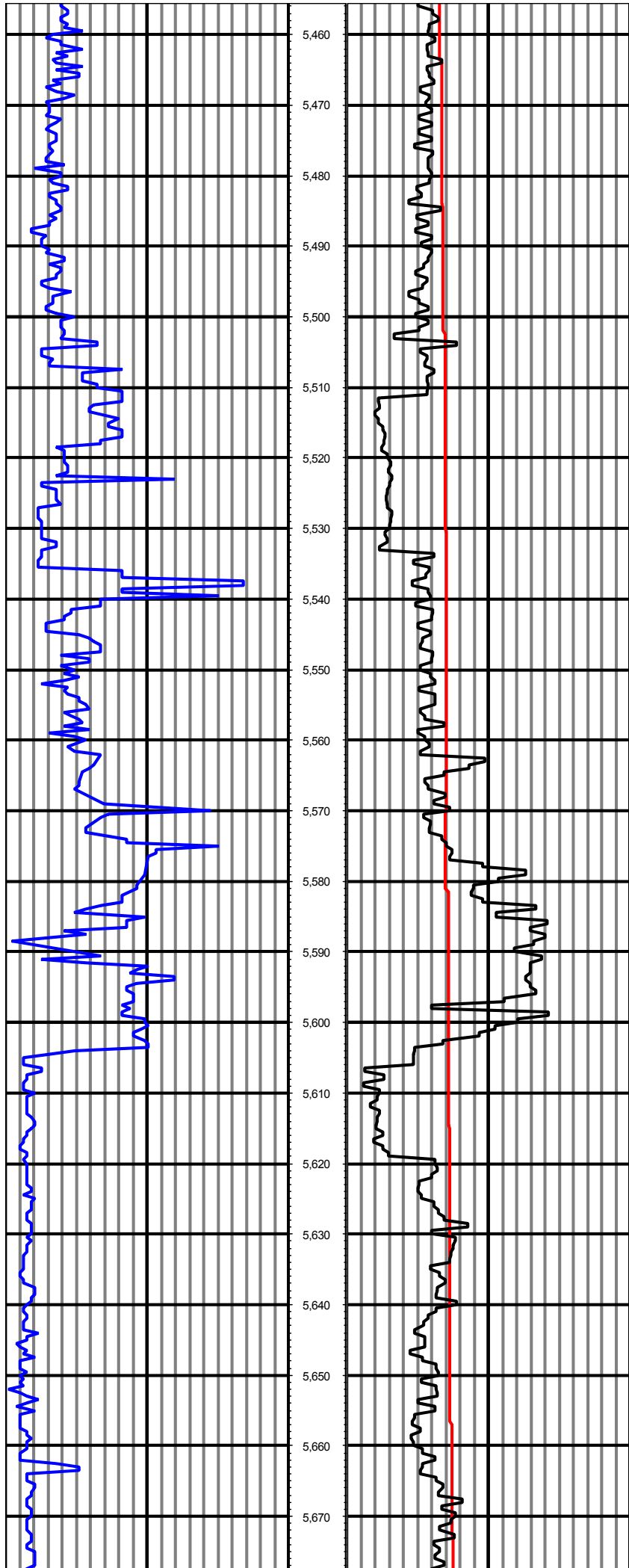
MD: 4954.00 INC: 2.32 AZ: 295.13 TVD: 4952.62 VS: -25.31 DLS: 0.55



MD: 5049.00 INC: 2.31 AZ: 299.47 TVD: 5047.55 VS: -27.07 DLS: 0.18

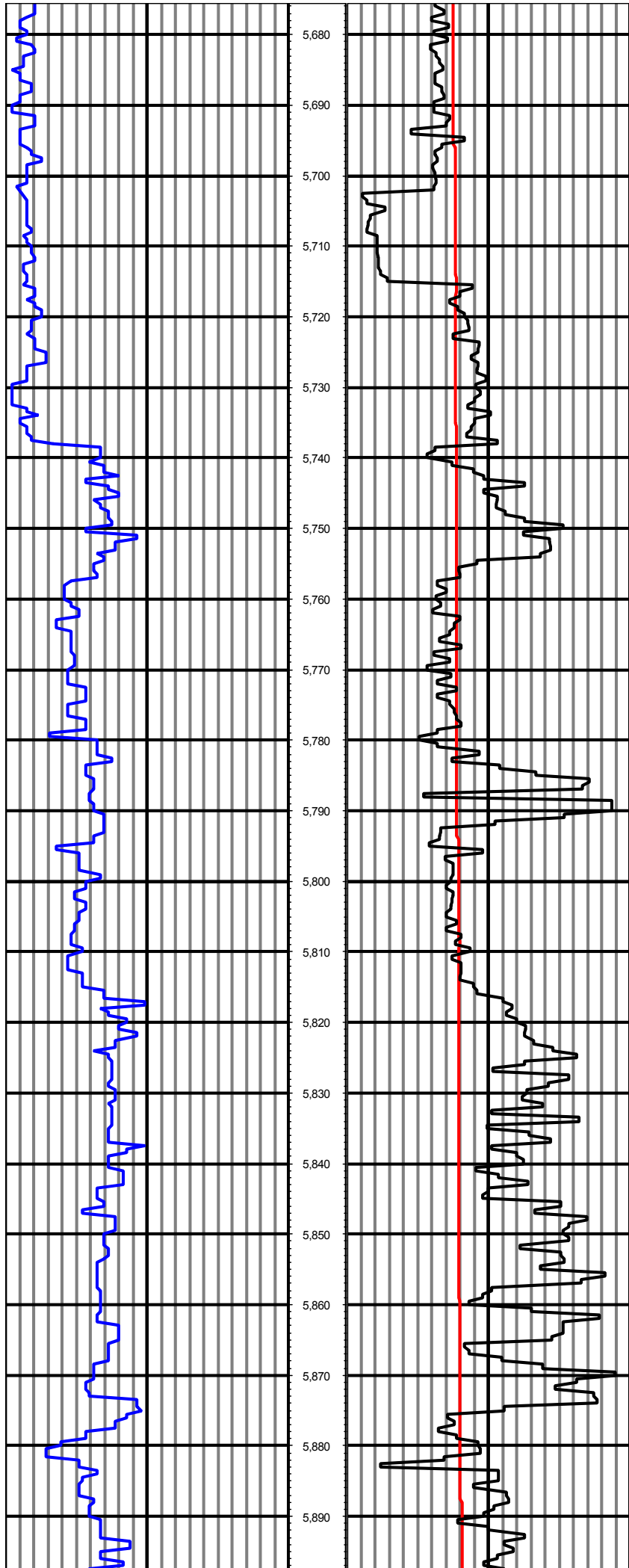
MD: 5144.00 INC: 2.52 AZ: 293.92 TVD: 5142.46 VS: -28.86 DLS: 0.33





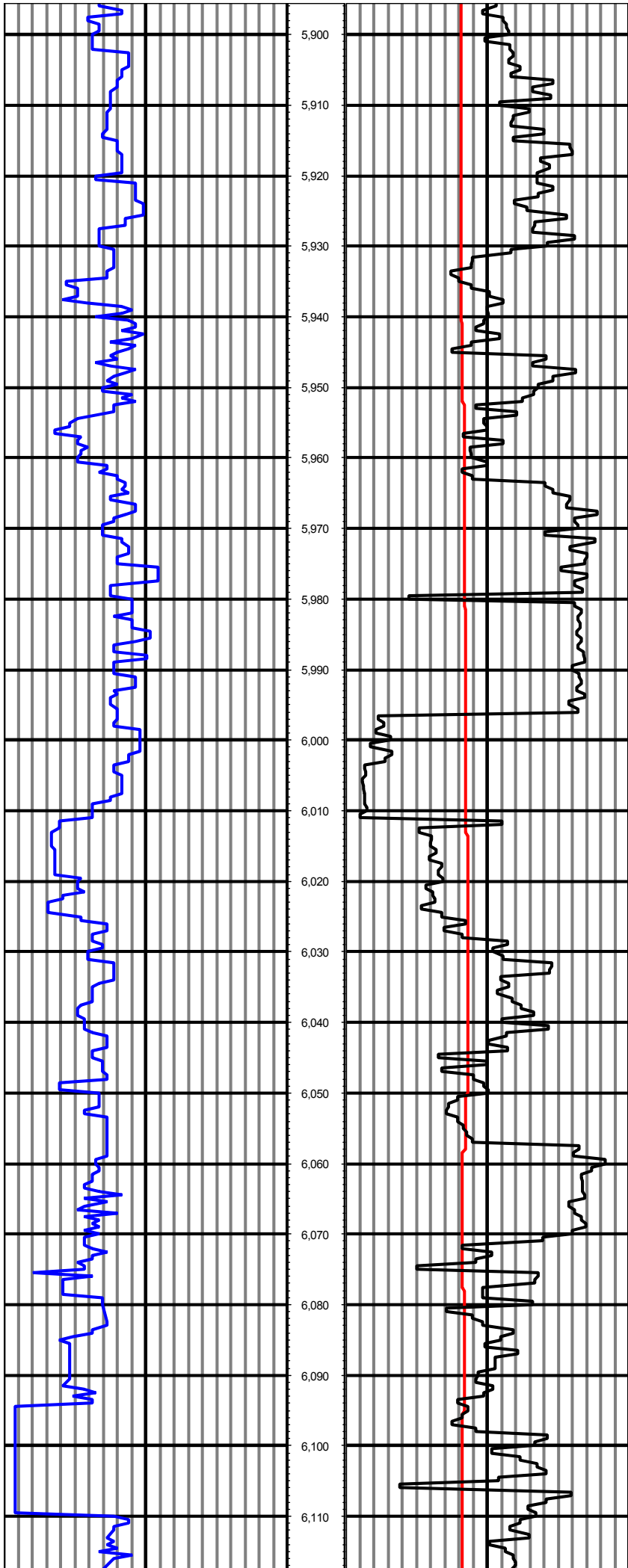
MD: 5526.00 INC: 0.57 AZ: 301.21 TVD: 5523.91 VS: -36.85 DLS: 2.04

MD: 5621.00 INC: 0.87 AZ: 77.06 TVD: 5618.91 VS: -37.26 DLS: 1.41



MD: 5716.00 INC: 1.38 AZ: 87.00 TVD: 5713.89 VS: -37.48 DLS: 0.57

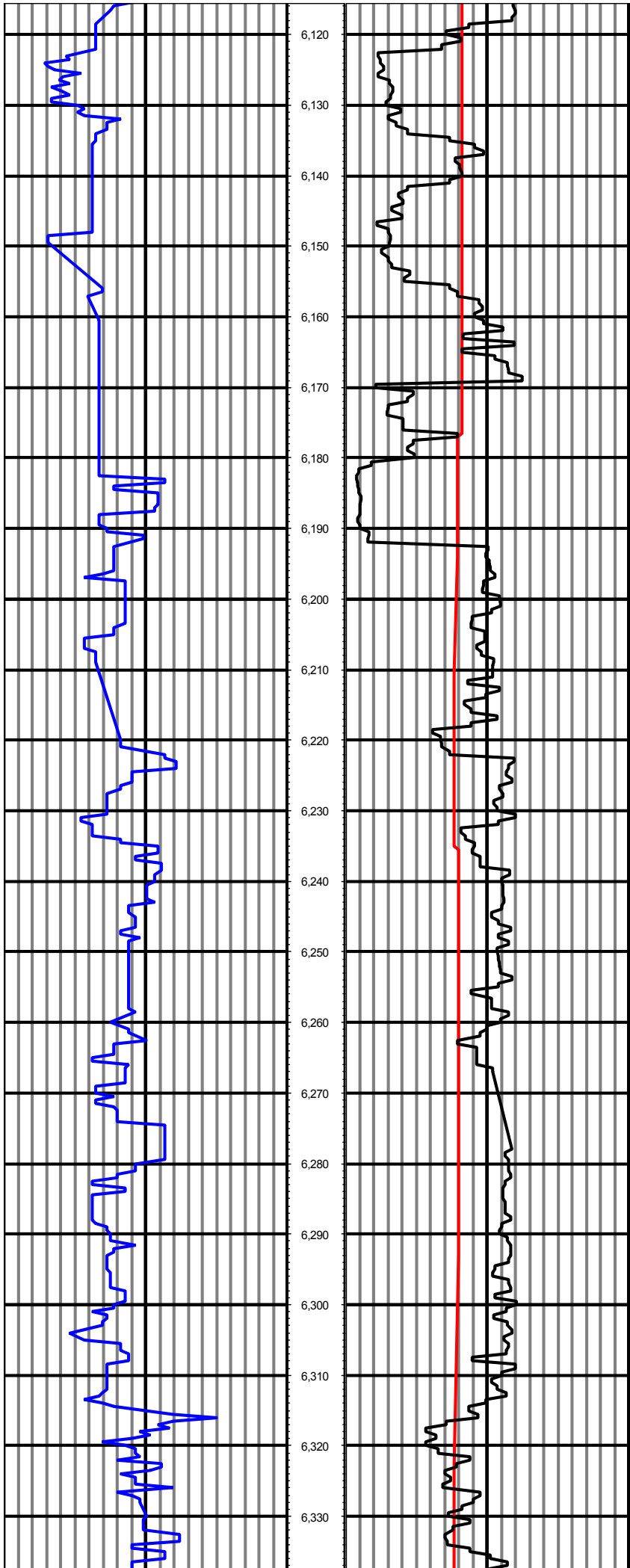
MD: 5811.00 INC: 1.38 AZ: 106.45 TVD: 5808.87 VS: -37.21 DLS: 0.49



MD: 5907.00 INC: 1.39 AZ: 94.47 TVD: 5904.84 VS: -36.79 DLS: 0.30

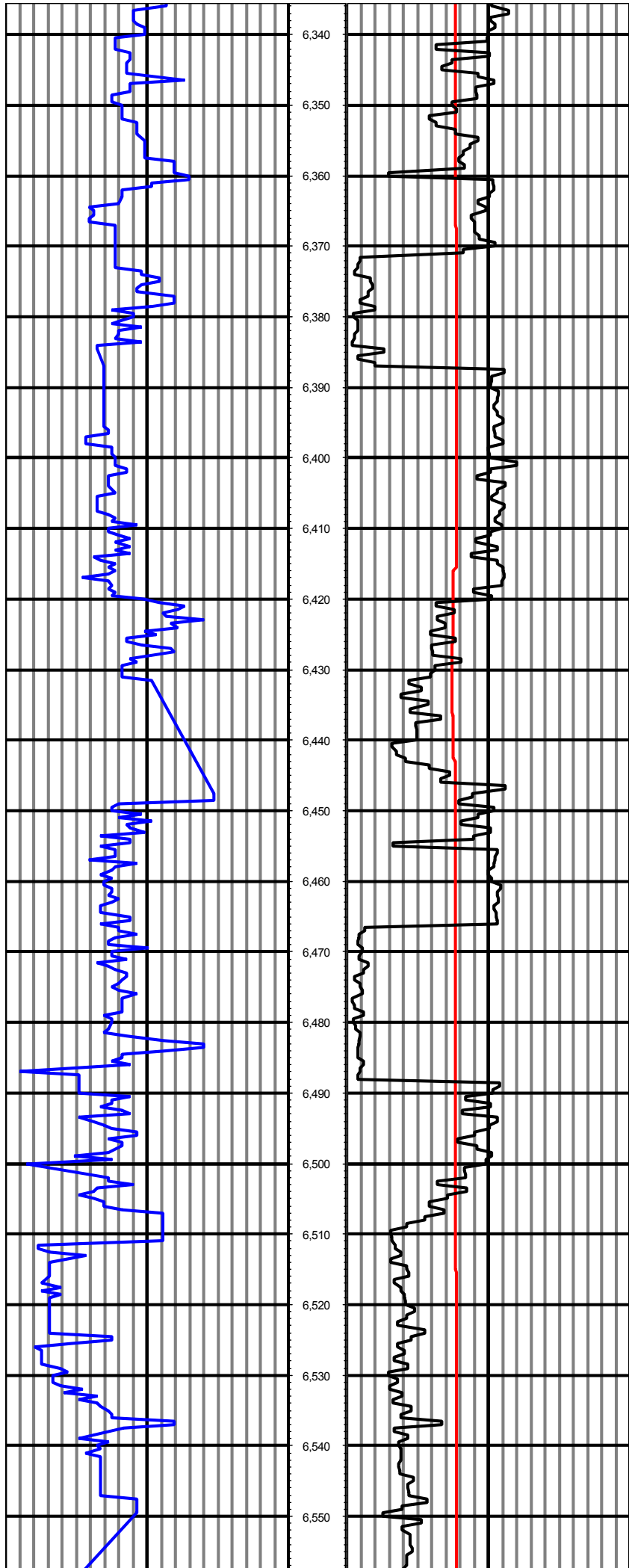
MD: 6002.00 INC: 1.46 AZ: 103.79 TVD: 5999.81 VS: -36.41 DLS: 0.25

MD: 6097.00 INC: 1.40 AZ: 99.46 TVD: 6094.78 VS: -35.93 DLS: 0.13



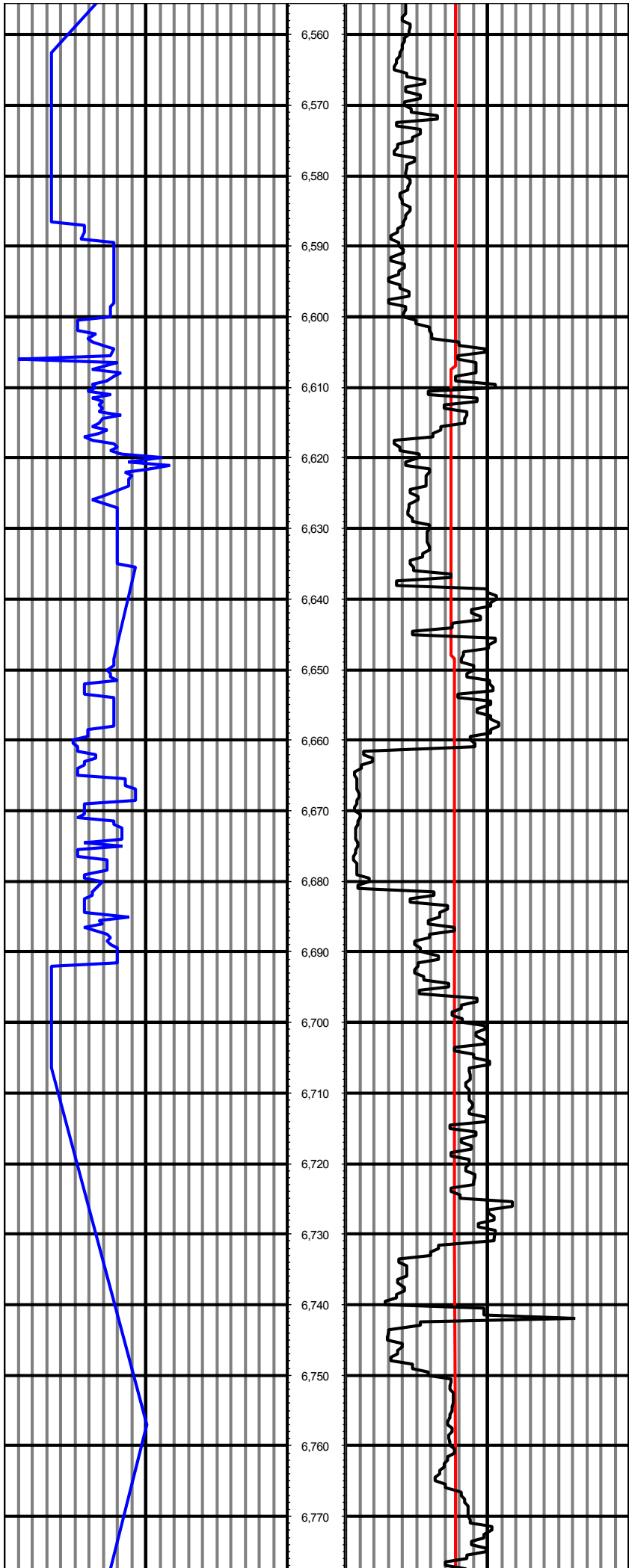
MD: 6192.00 INC: 1.40 AZ: 102.35 TVD: 6189.75 VS: -35.49 DLS: 0.07

MD: 6287.00 INC: 1.56 AZ: 102.97 TVD: 6284.72 VS: -34.95 DLS: 0.17



MD: 6382.00 INC: 1.50 AZ: 108.81 TVD: 6379.68 VS: -34.25 DLS: 0.18

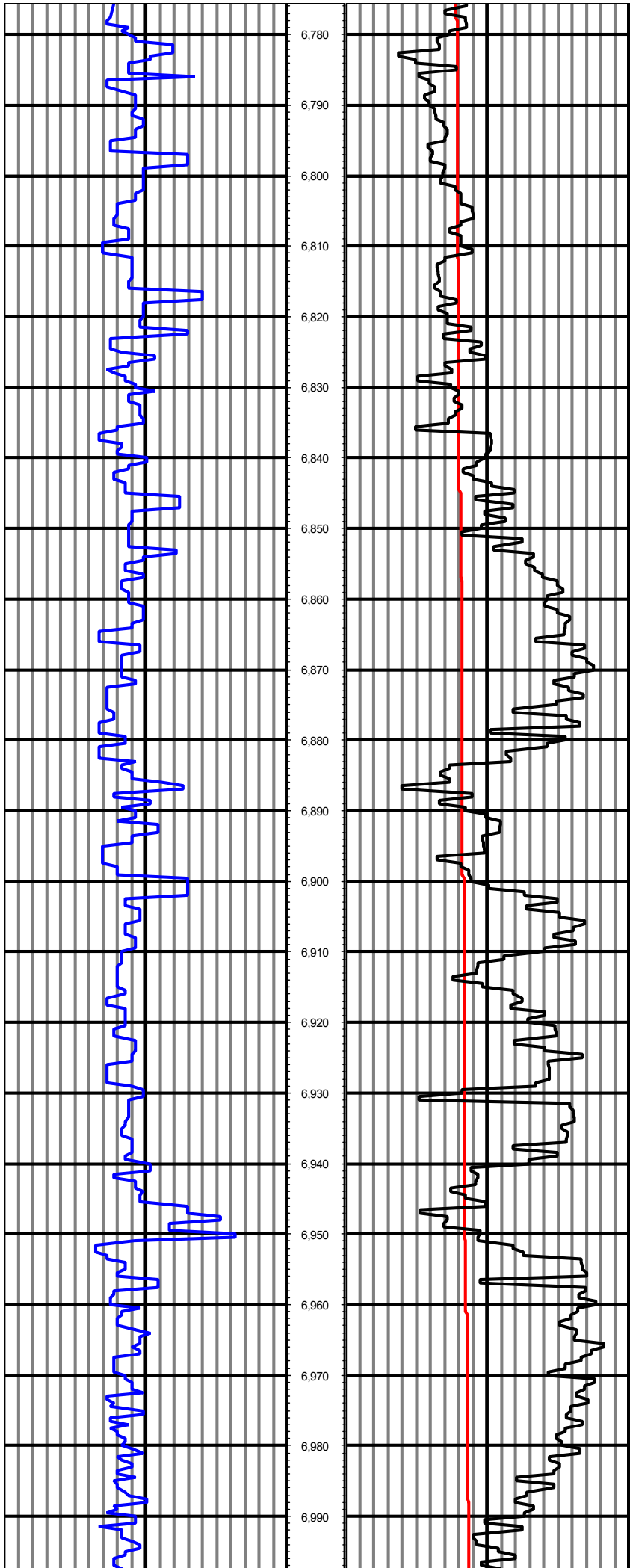
MD: 6477.00 INC: 1.79 AZ: 115.89 TVD: 6474.65 VS: -33.20 DLS: 0.37



MD: 6572.00 INC: 1.94 AZ: 119.13 TVD: 6569.60 VS: -31.77 DLS: 0.19

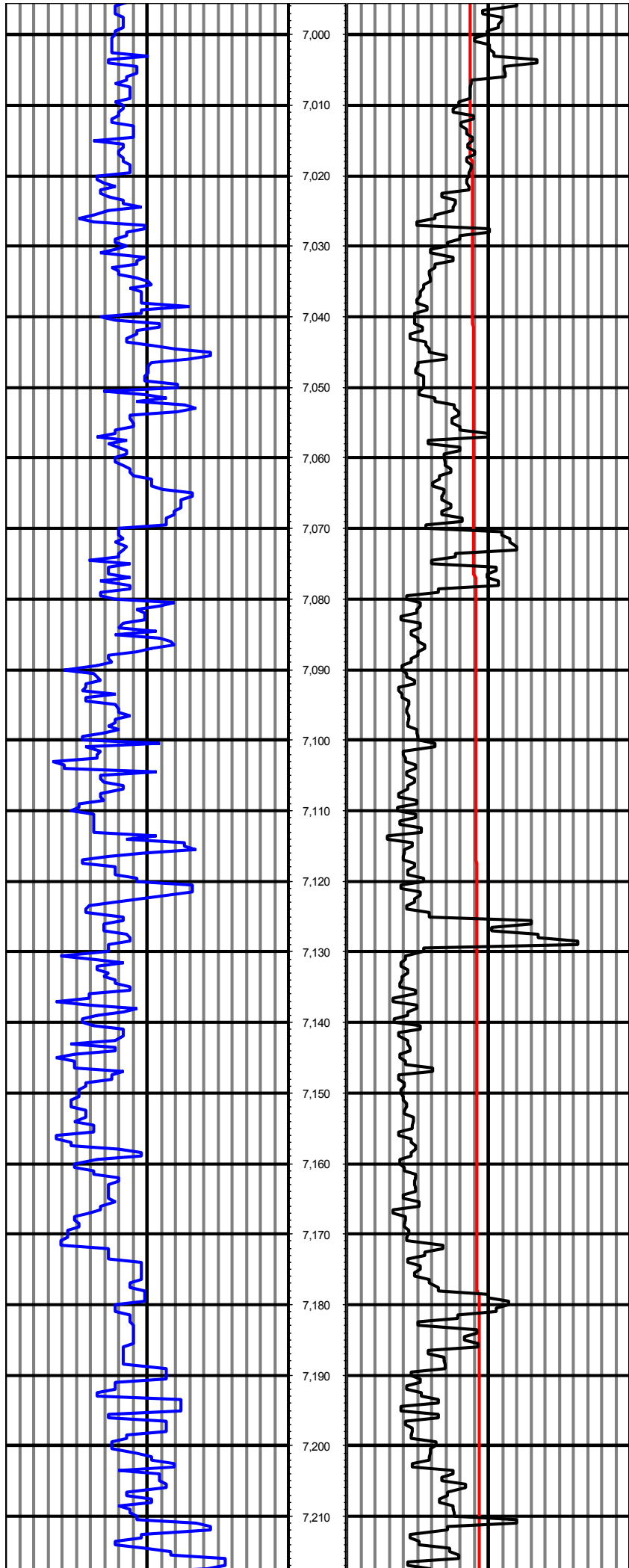
MD: 6668.00 INC: 1.69 AZ: 118.26 TVD: 6665.55 VS: -30.30 DLS: 0.26

MD: 6763.00 INC: 1.57 AZ: 123.58 TVD: 6760.51 VS: -28.92 DLS: 0.20



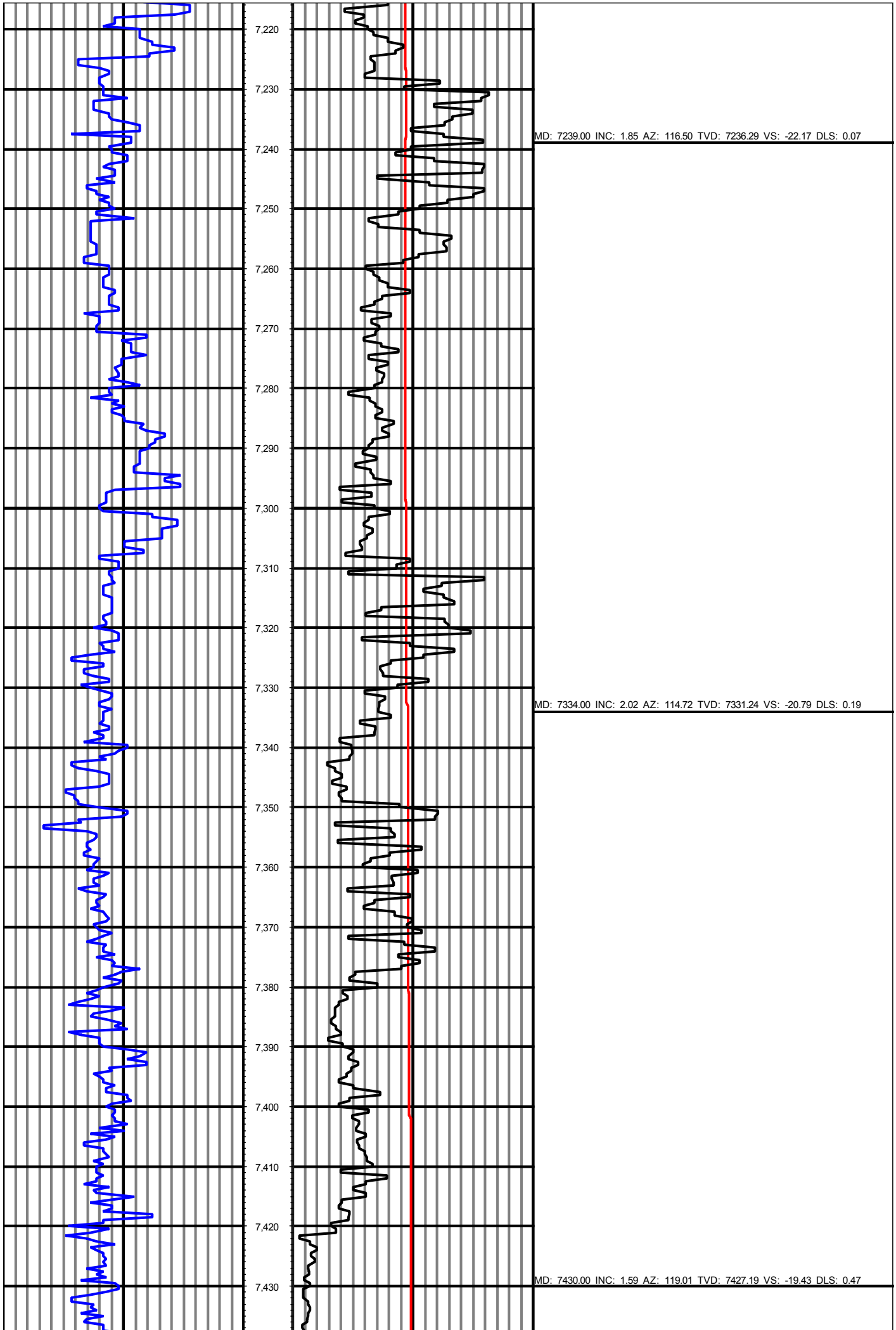
MD: 6858.00 INC: 1.62 AZ: 121.55 TVD: 6855.47 VS: -27.49 DLS: 0.08

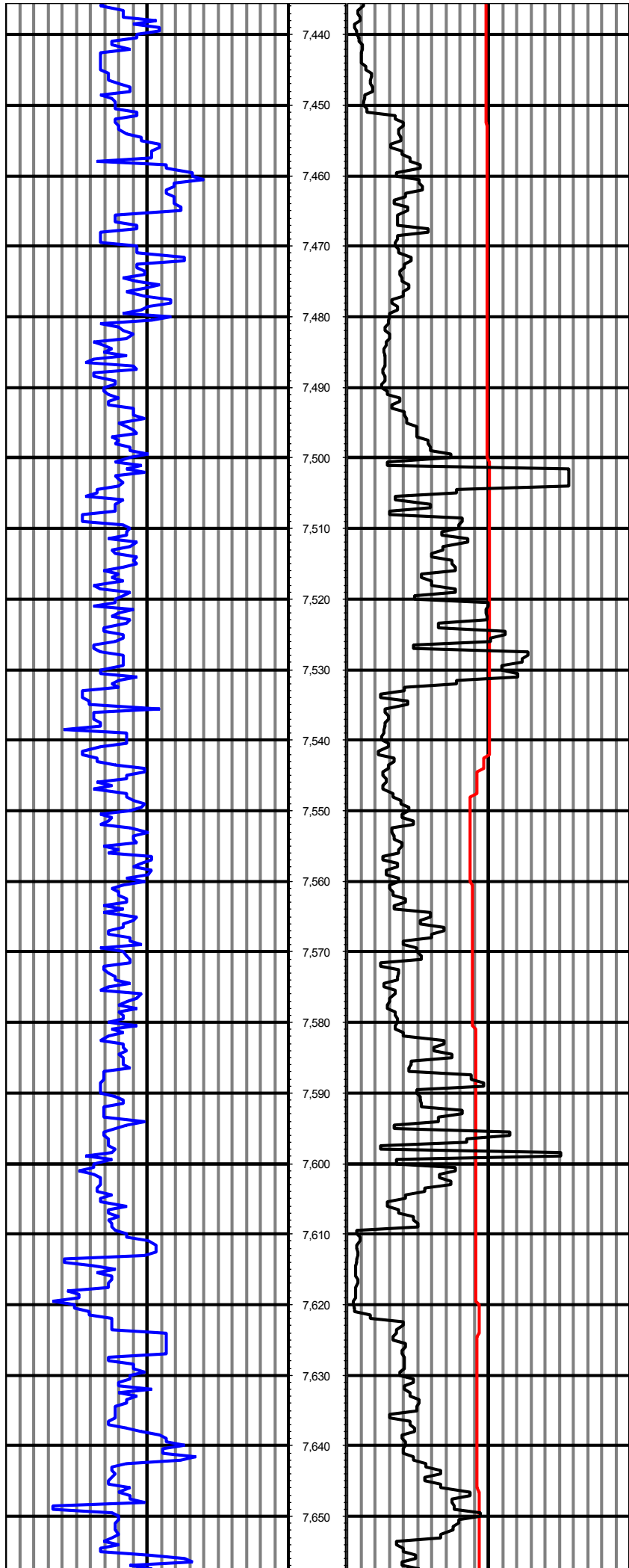
MD: 6954.00 INC: 1.66 AZ: 122.57 TVD: 6951.43 VS: -26.03 DLS: 0.05



MD: 7049.00 INC: 1.77 AZ: 113.28 TVD: 7046.39 VS: -24.71 DLS: 0.31

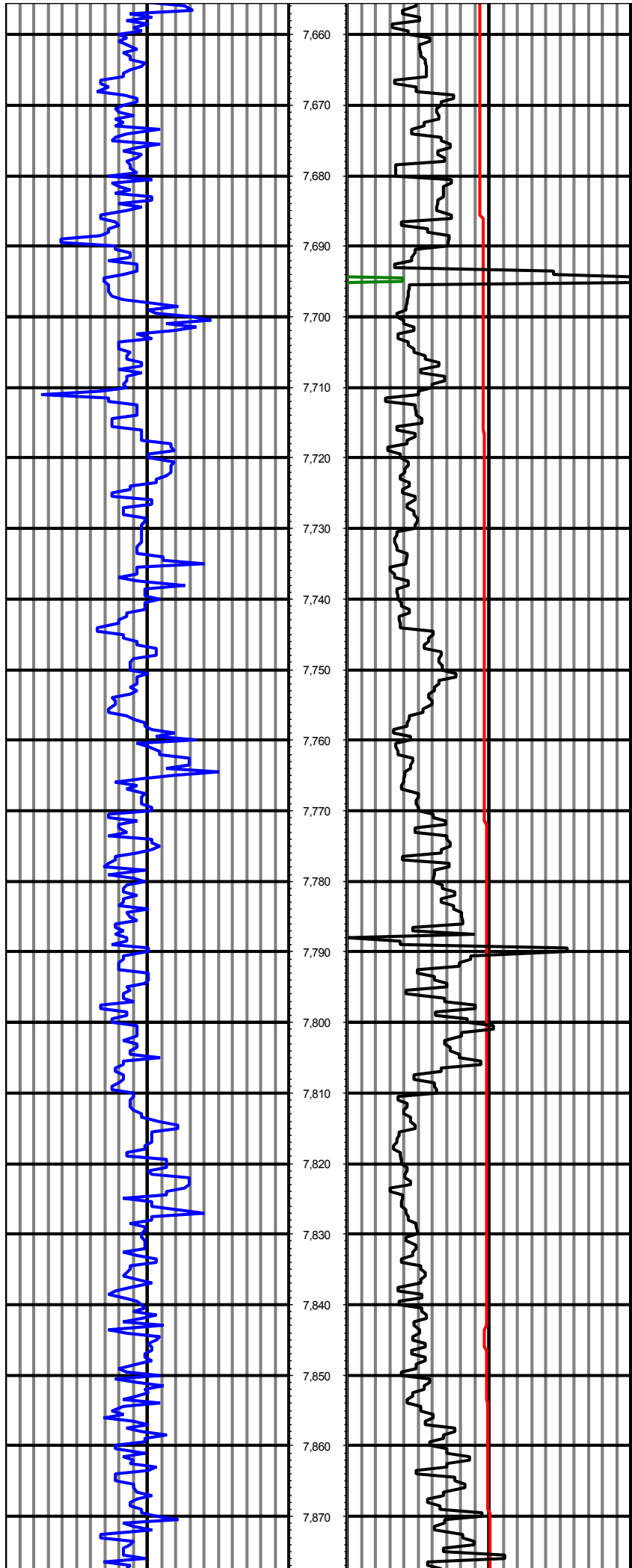
MD: 7144.00 INC: 1.84 AZ: 114.52 TVD: 7141.34 VS: -23.49 DLS: 0.08





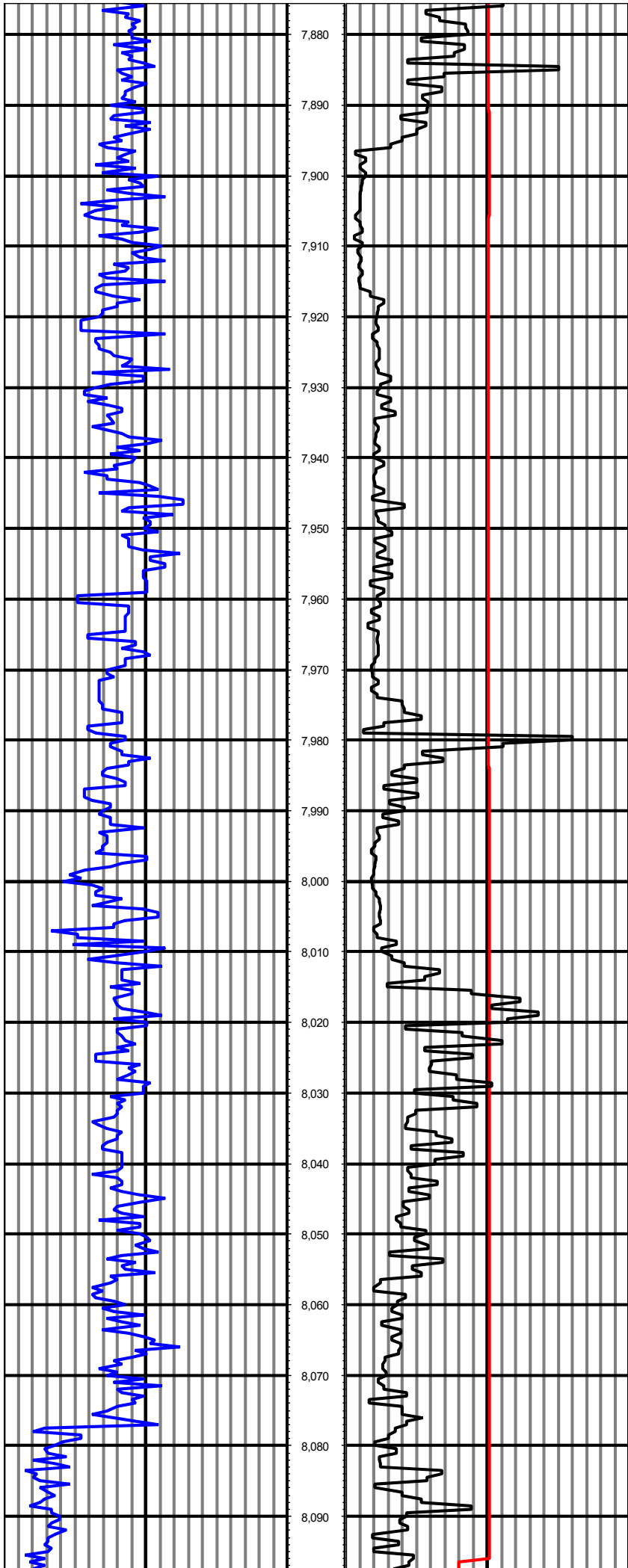
MD: 7525.00 INC: 1.57 AZ: 140.13 TVD: 7522.16 VS: -17.79 DLS: 0.61

MD: 7620.00 INC: 1.46 AZ: 135.04 TVD: 7617.12 VS: -15.93 DLS: 0.18



MD: 7716.00 INC: 1.39 AZ: 144.56 TVD: 7713.09 VS: -14.12 DLS: 0.26

MD: 7811.00 INC: 1.33 AZ: 125.35 TVD: 7808.07 VS: -12.54 DLS: 0.48

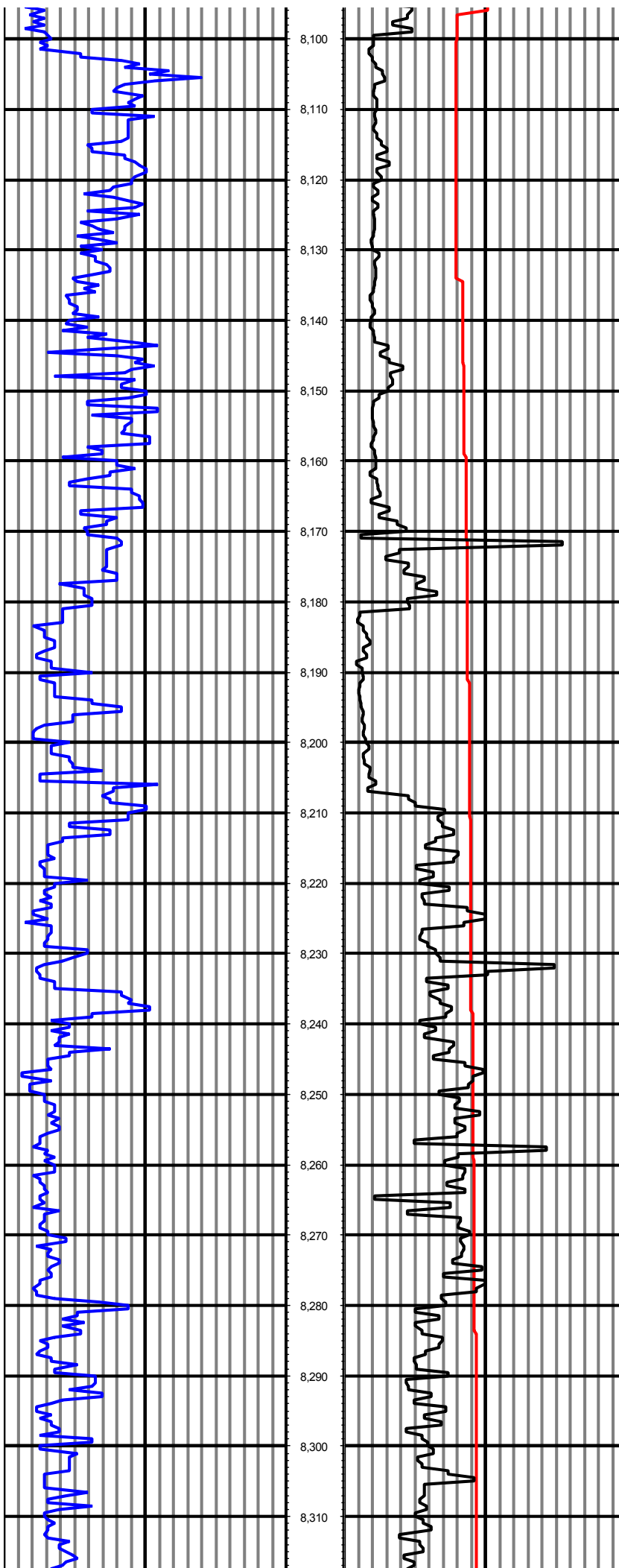


MD: 7907.00 INC: 1.02 AZ: 132.85 TVD: 7904.05 VS: -11.31 DLS: 0.36

MD: 8002.00 INC: 1.03 AZ: 135.83 TVD: 7999.03 VS: -10.12 DLS: 0.06

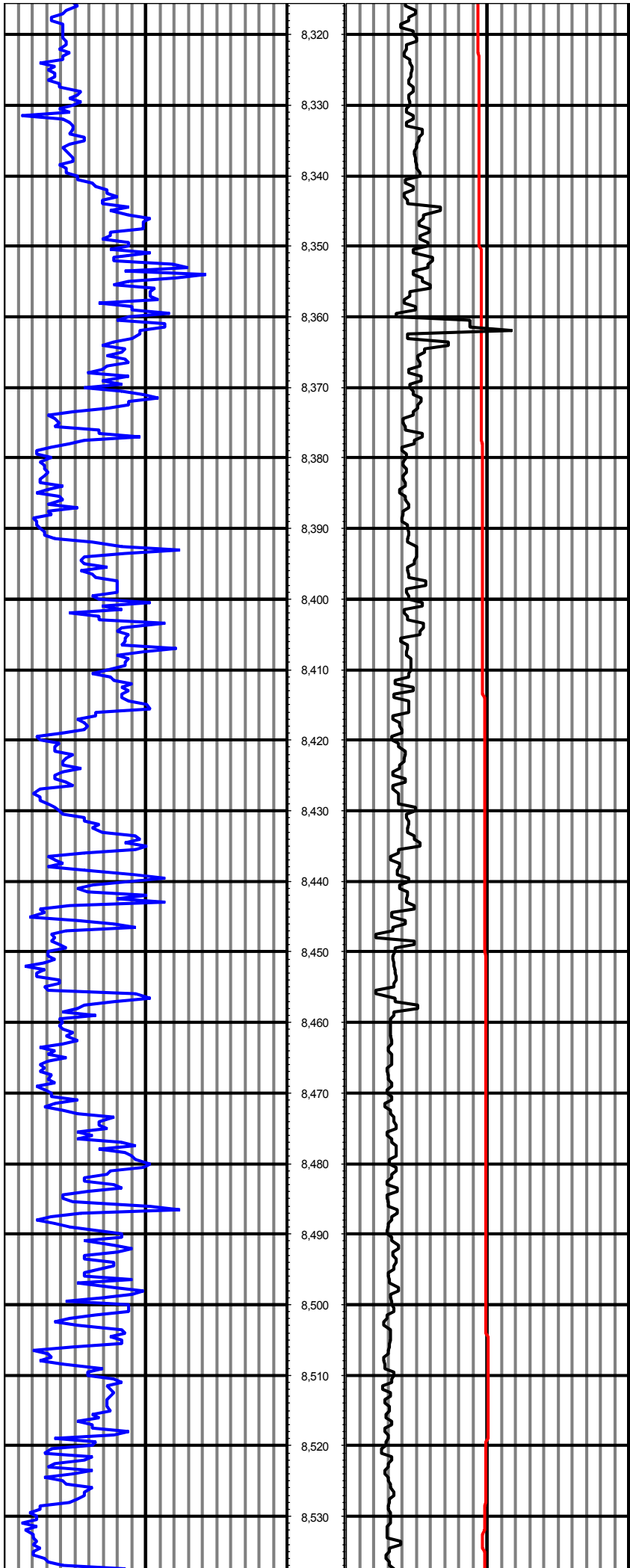
MD: 8097.00 INC: 0.96 AZ: 138.23 TVD: 8094.02 VS: -8.90 DLS: 0.07

MD: 8097.00 INC: 0.98 AZ: 138.23 TVD: 8094.02 VS: -8.90 DLS: 0.07



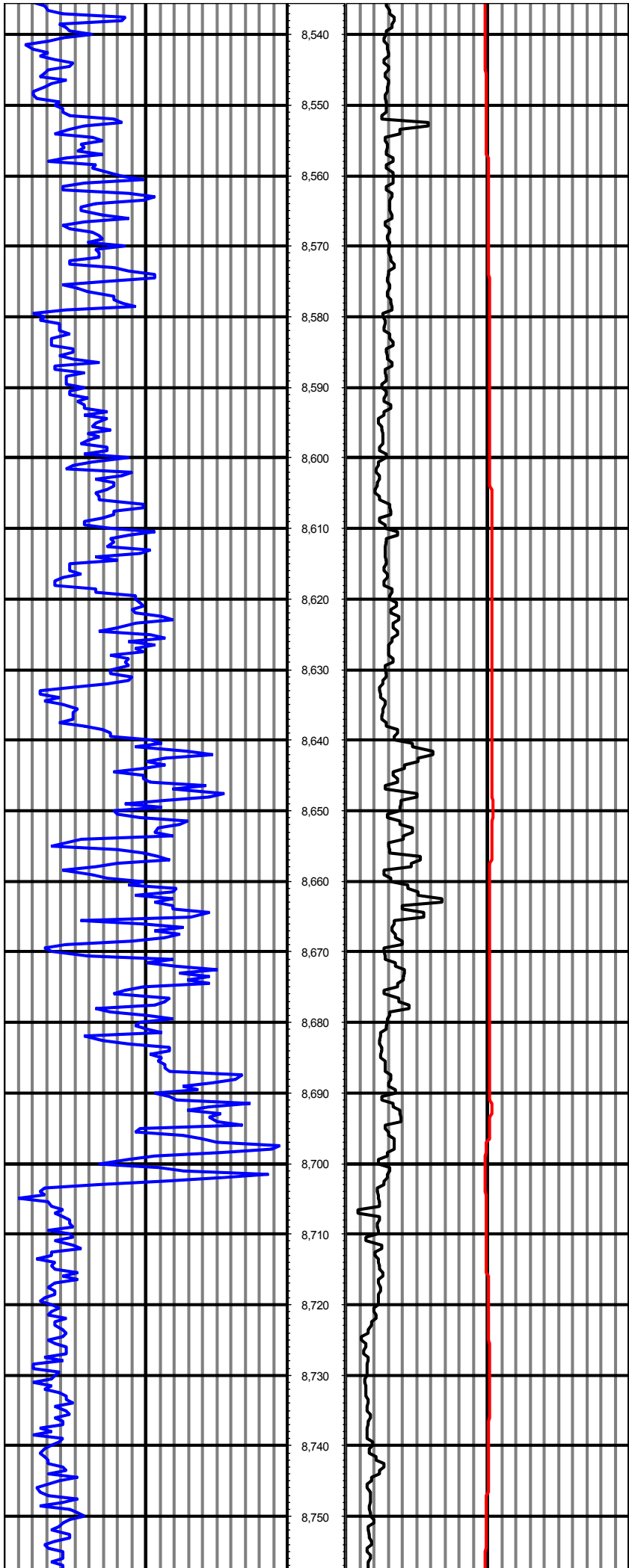
MD: 8192.00 INC: 0.65 AZ: 165.11 TVD: 8189.01 VS: -7.78 DLS: 0.52

MD: 8288.00 INC: 1.13 AZ: 187.11 TVD: 8285.00 VS: -6.31 DLS: 0.61



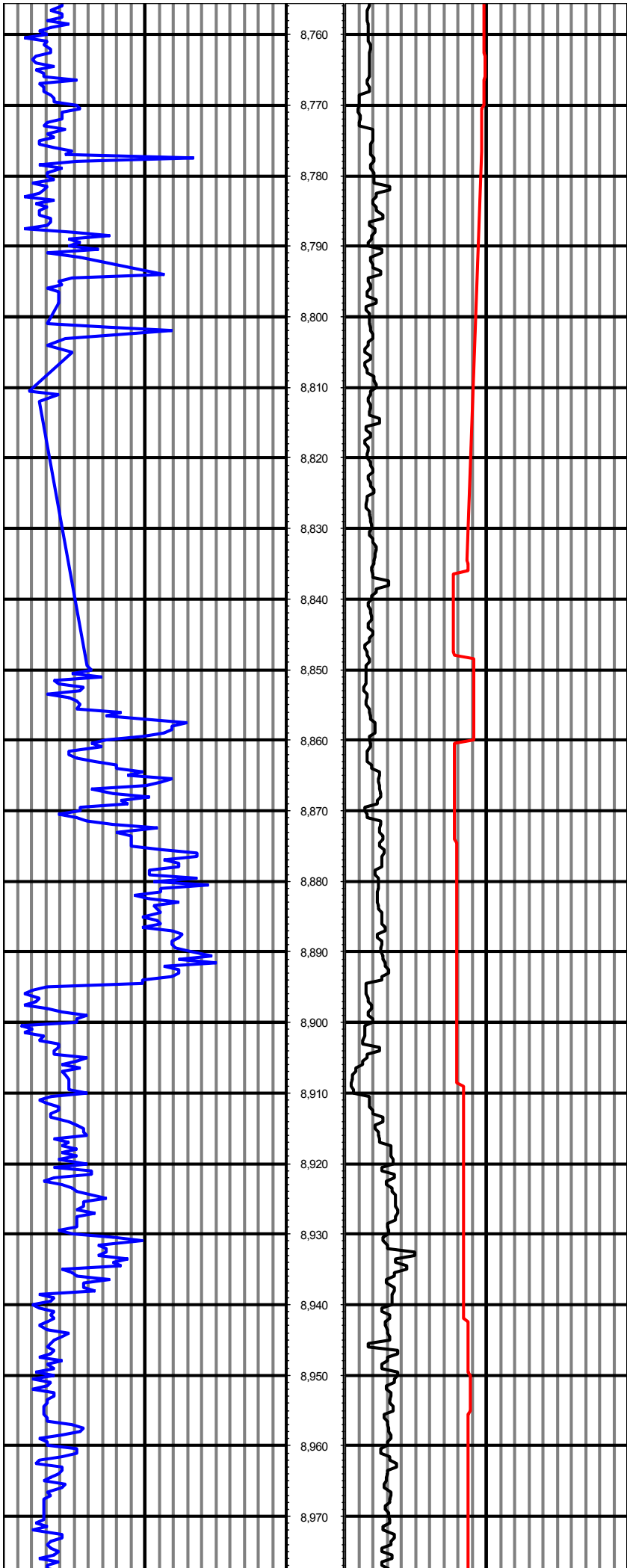
MD: 8383.00 INC: 0.95 AZ: 180.98 TVD: 8379.98 VS: -4.59 DLS: 0.22

MD: 8478.00 INC: 0.85 AZ: 176.26 TVD: 8474.97 VS: -3.10 DLS: 0.13



MD: 8574.00 INC: 0.78 AZ: 158.90 TVD: 8570.96 VS: -1.78 DLS: 0.27

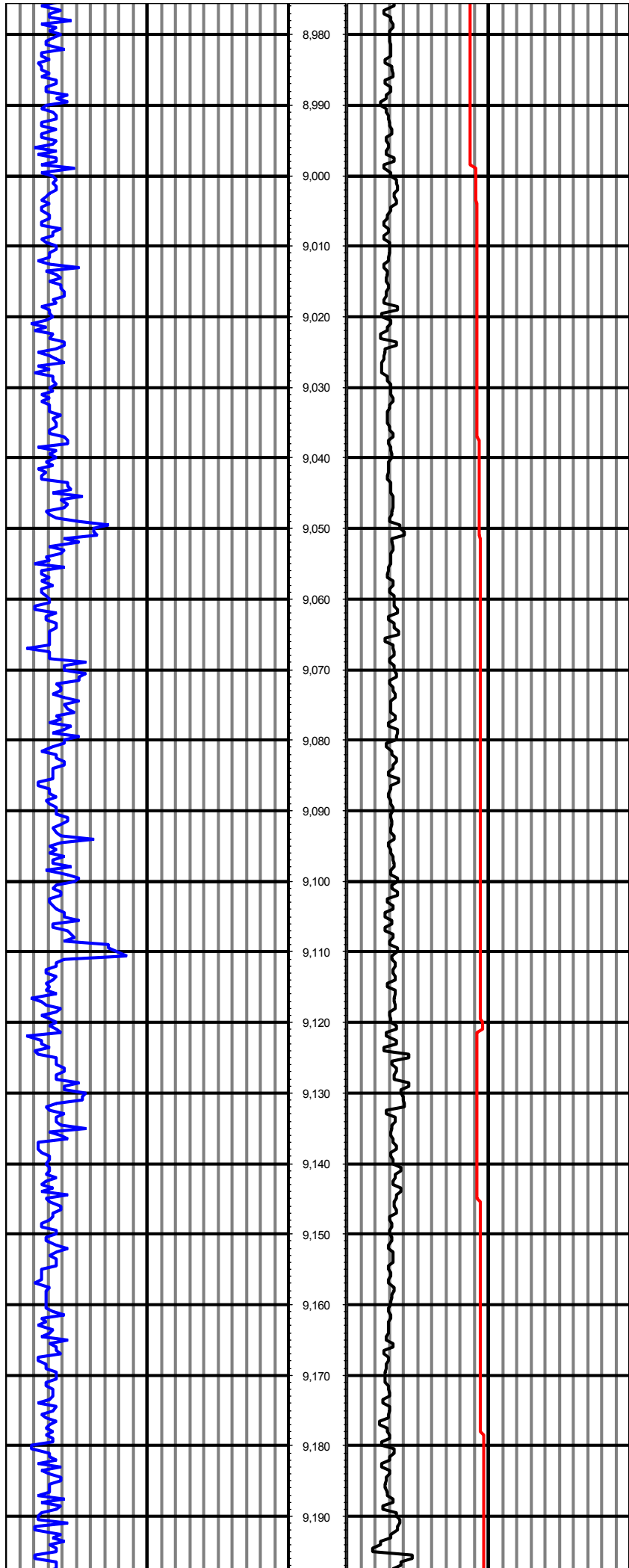
MD: 8669.00 INC: 0.68 AZ: 140.64 TVD: 8665.95 VS: -0.74 DLS: 0.27



MD: 8764.00 INC: 0.68 AZ: 128.75 TVD: 8760.94 VS: 0.05 DLS: 0.15

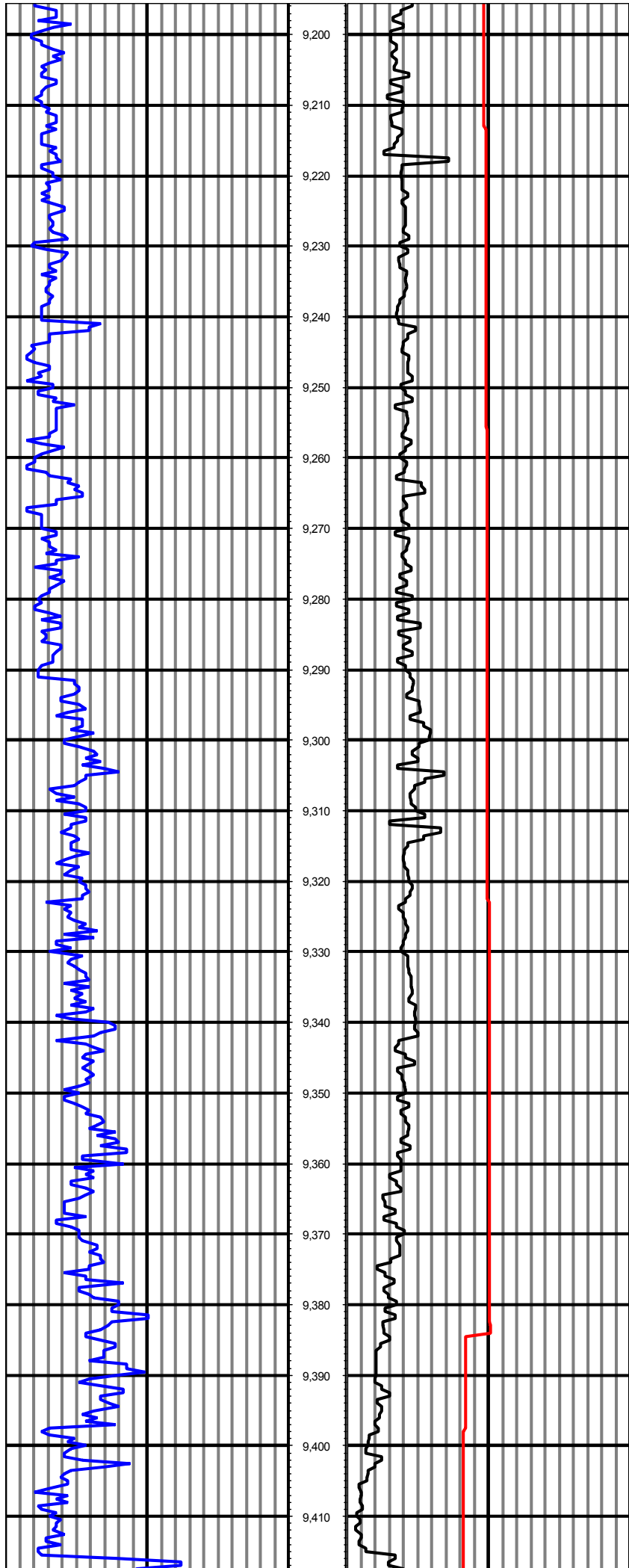
MD: 8859.00 INC: 0.61 AZ: 120.79 TVD: 8855.94 VS: 0.66 DLS: 0.12

MD: 8954.00 INC: 0.65 AZ: 75.05 TVD: 8950.93 VS: 0.78 DLS: 0.52



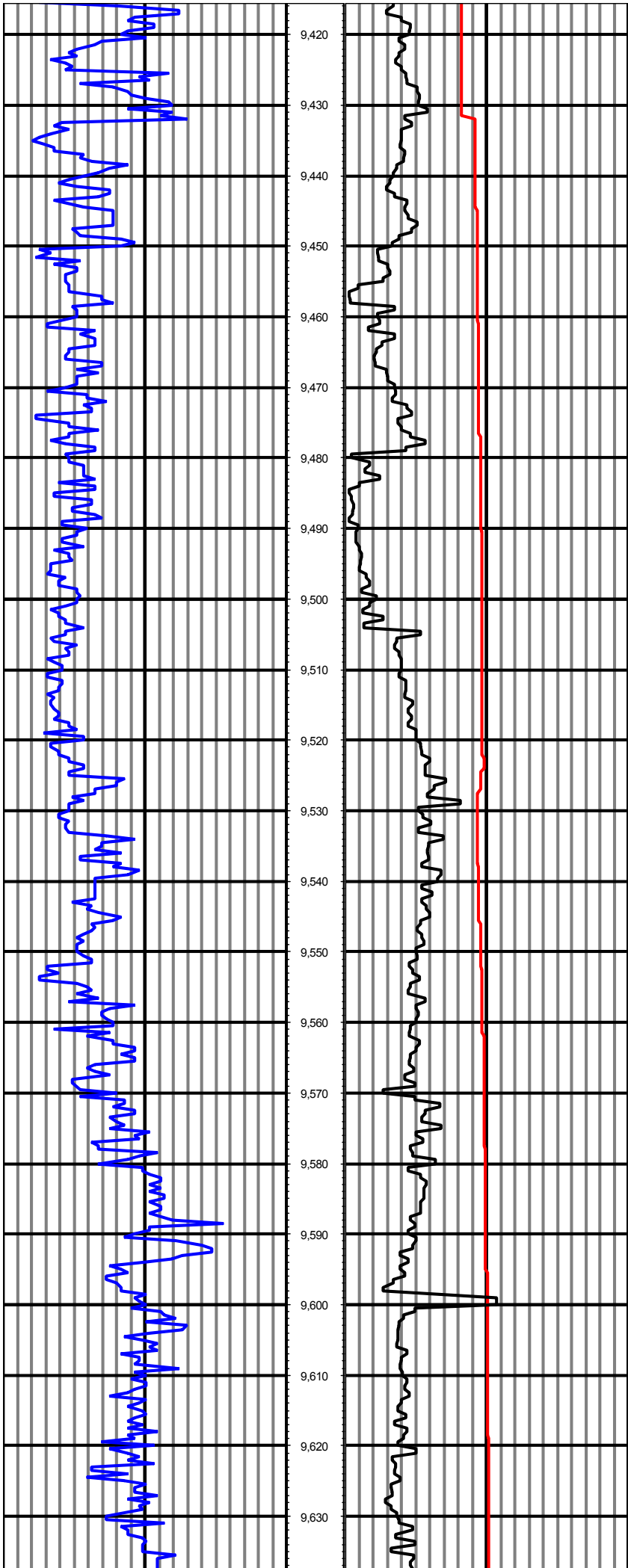
MD: 9050.00 INC: 0.71 AZ: 72.95 TVD: 9046.93 VS: 0.47 DLS: 0.07

MD: 9144.00 INC: 1.18 AZ: 70.60 TVD: 9140.91 VS: -0.02 DLS: 0.50



MD: 9239.00 INC: 1.02 AZ: 78.23 TVD: 9235.90 VS: -0.52 DLS: 0.23

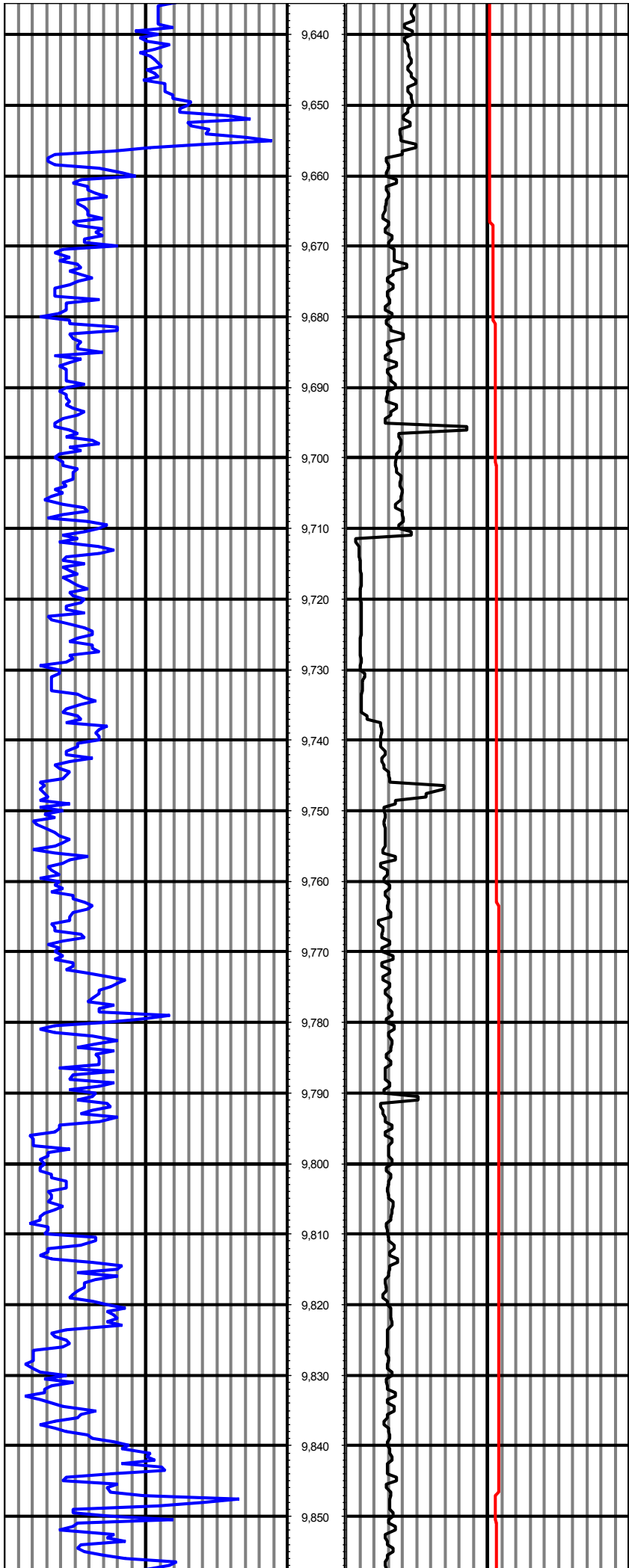
MD: 9335.00 INC: 1.29 AZ: 70.04 TVD: 9331.88 VS: -1.06 DLS: 0.33



MD: 9430.00 INC: 1.90 AZ: 78.64 TVD: 9426.84 VS: -1.73 DLS: 0.69

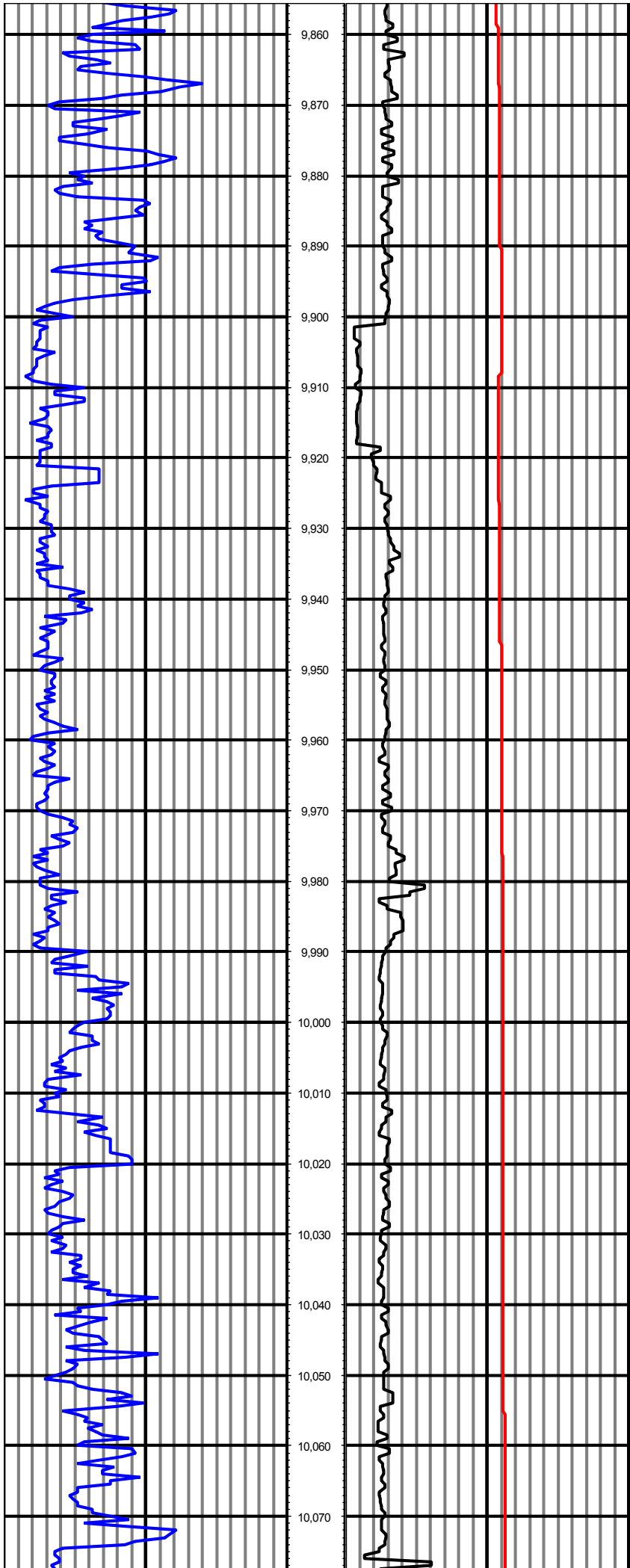
MD: 9526.00 INC: 1.67 AZ: 77.64 TVD: 9522.79 VS: -2.34 DLS: 0.24

MD: 9622.00 INC: 1.80 AZ: 74.87 TVD: 9618.75 VS: -3.03 DLS: 0.16



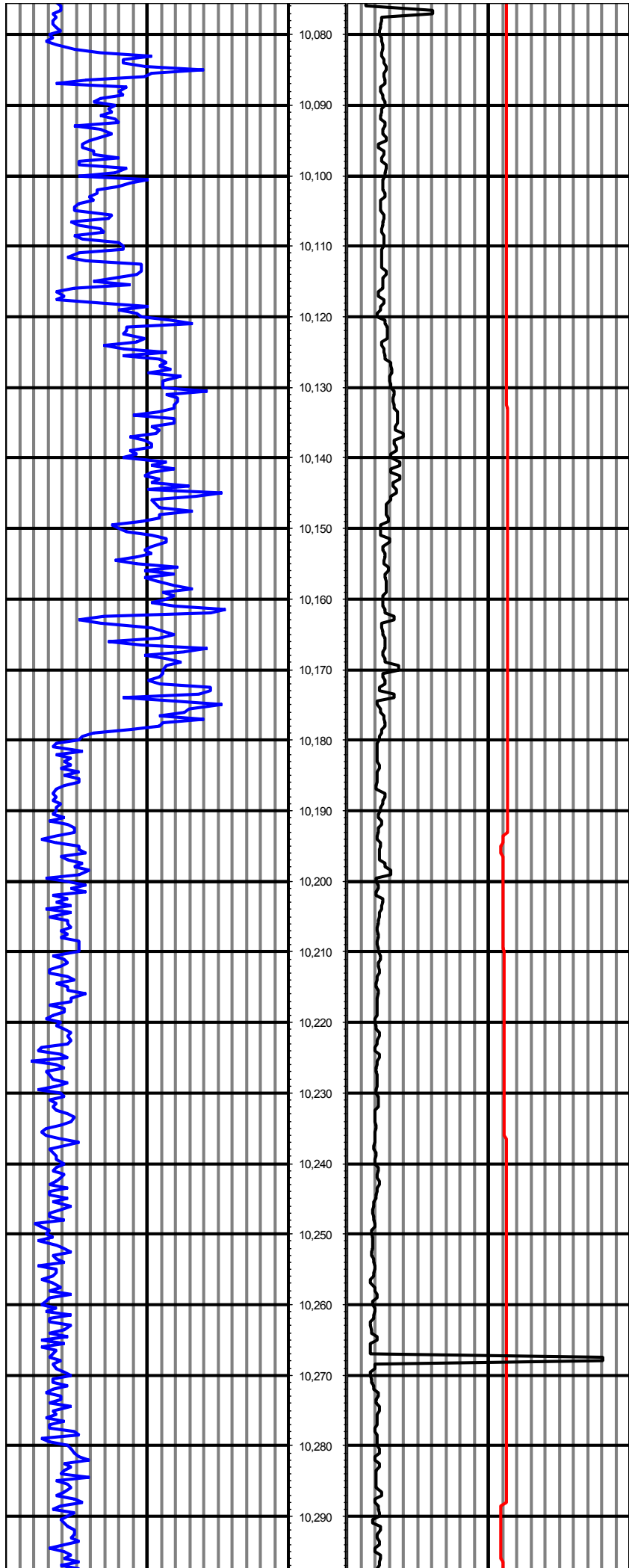
MD: 9717.00 INC: 1.15 AZ: 77.14 TVD: 9713.72 VS: -3.63 DLS: 0.69

MD: 9812.00 INC: 0.48 AZ: 79.52 TVD: 9808.71 VS: -3.92 DLS: 0.71



MD: 9907.00 INC: 0.47 AZ: 23.64 TVD: 9903.70 VS: -4.34 DLS: 0.47

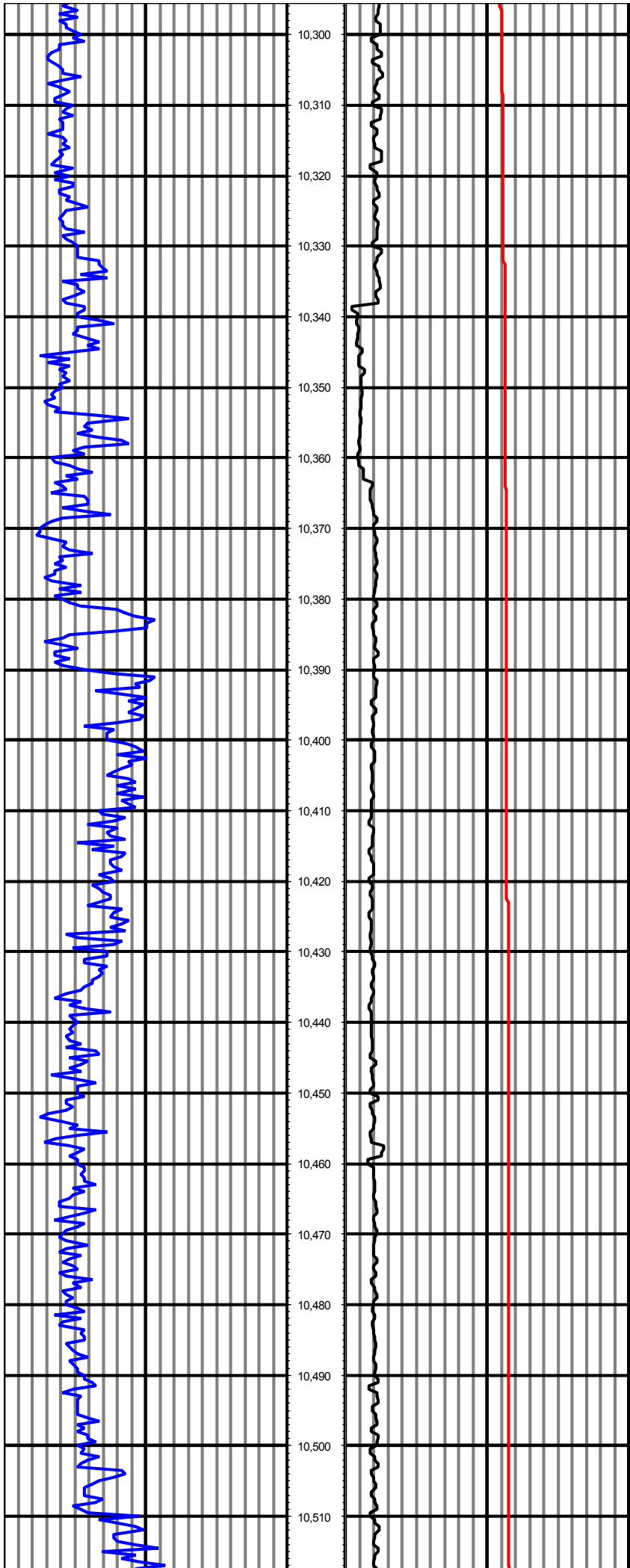
MD: 10002.00 INC: 0.58 AZ: 323.02 TVD: 9998.70 VS: -5.09 DLS: 0.57



MD: 10098.00 INC: 0.57 AZ: 21.89 TVD: 10094.70 VS: -5.92 DLS: 0.59

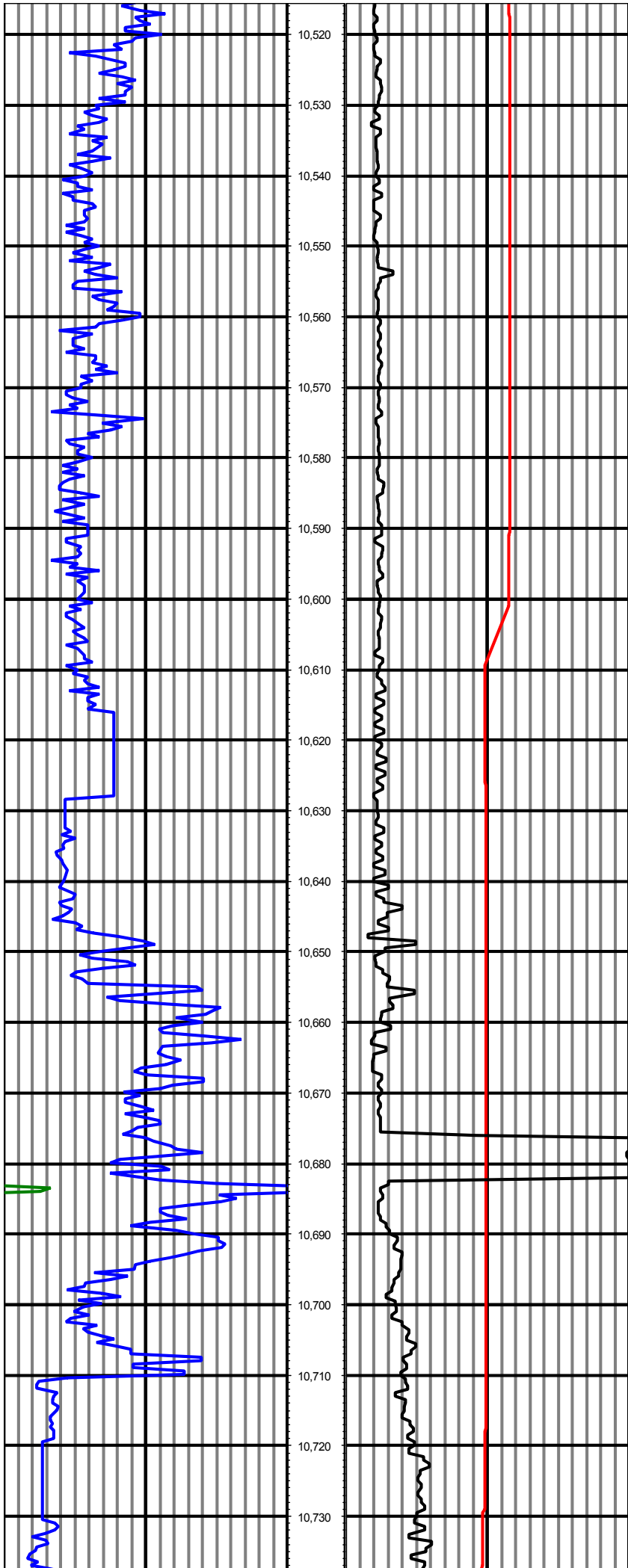
MD: 10194.00 INC: 0.75 AZ: 47.99 TVD: 10190.69 VS: -6.78 DLS: 0.36

MD: 10289.00 INC: 0.71 AZ: 57.17 TVD: 10285.68 VS: -7.51 DLS: 0.13



MD: 10384.00 INC: 0.66 AZ: 216.93 TVD: 10380.68 VS: -7.40 DLS: 1.42

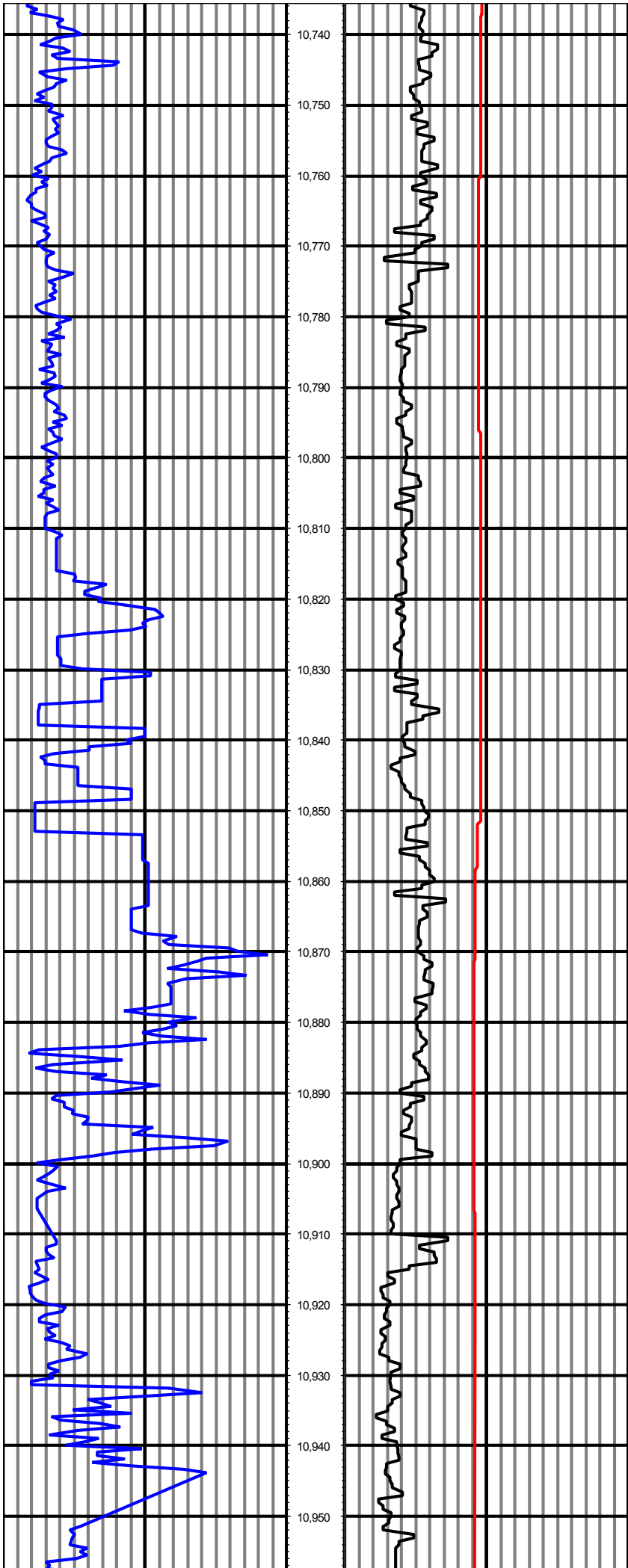
MD: 10480.00 INC: 0.21 AZ: 212.14 TVD: 10476.68 VS: -6.80 DLS: 0.47



MD: 10575.00 INC: 0.22 AZ: 203.84 TVD: 10571.68 VS: -6.49 DLS: 0.03

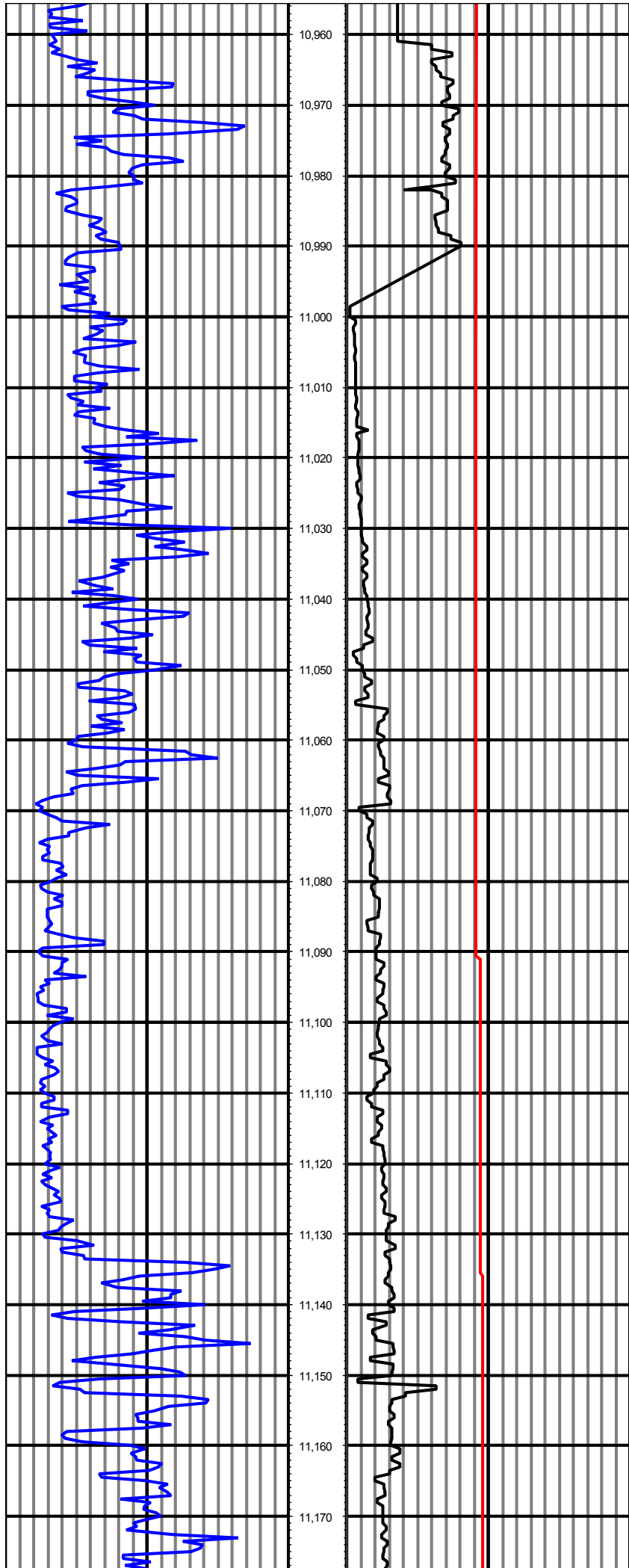
MD: 10601.00 INC: 0.17 AZ: 228.30 TVD: 10597.68 VS: -6.42 DLS: 0.37

MD: 10705.00 INC: 0.65 AZ: 208.91 TVD: 10701.67 VS: -5.80 DLS: 0.47



MD: 10800.00 INC: 0.35 AZ: 152.53 TVD: 10796.67 VS: -5.07 DLS: 0.57

MD: 10895.00 INC: 0.66 AZ: 89.16 TVD: 10891.67 VS: -4.82 DLS: 0.62

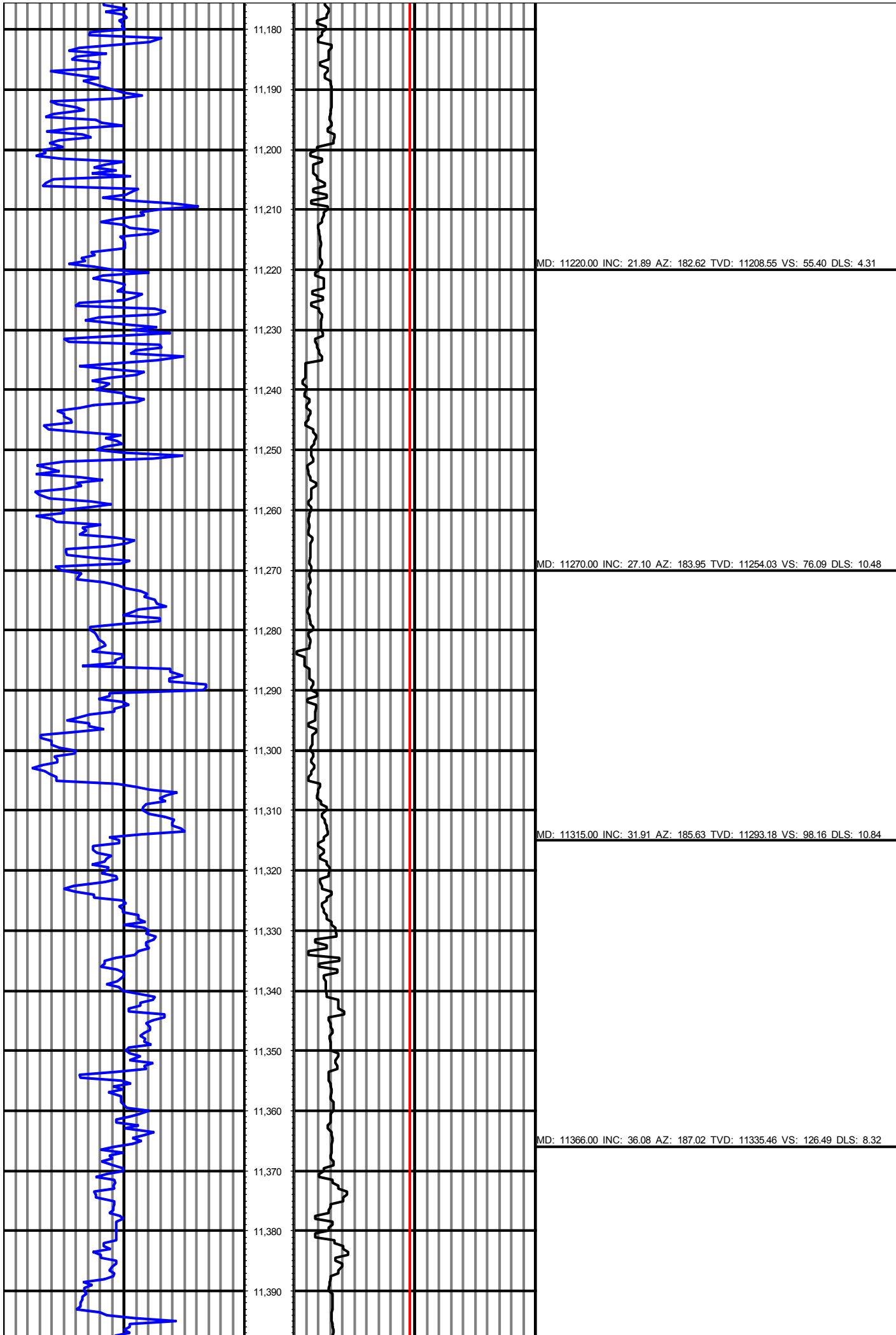


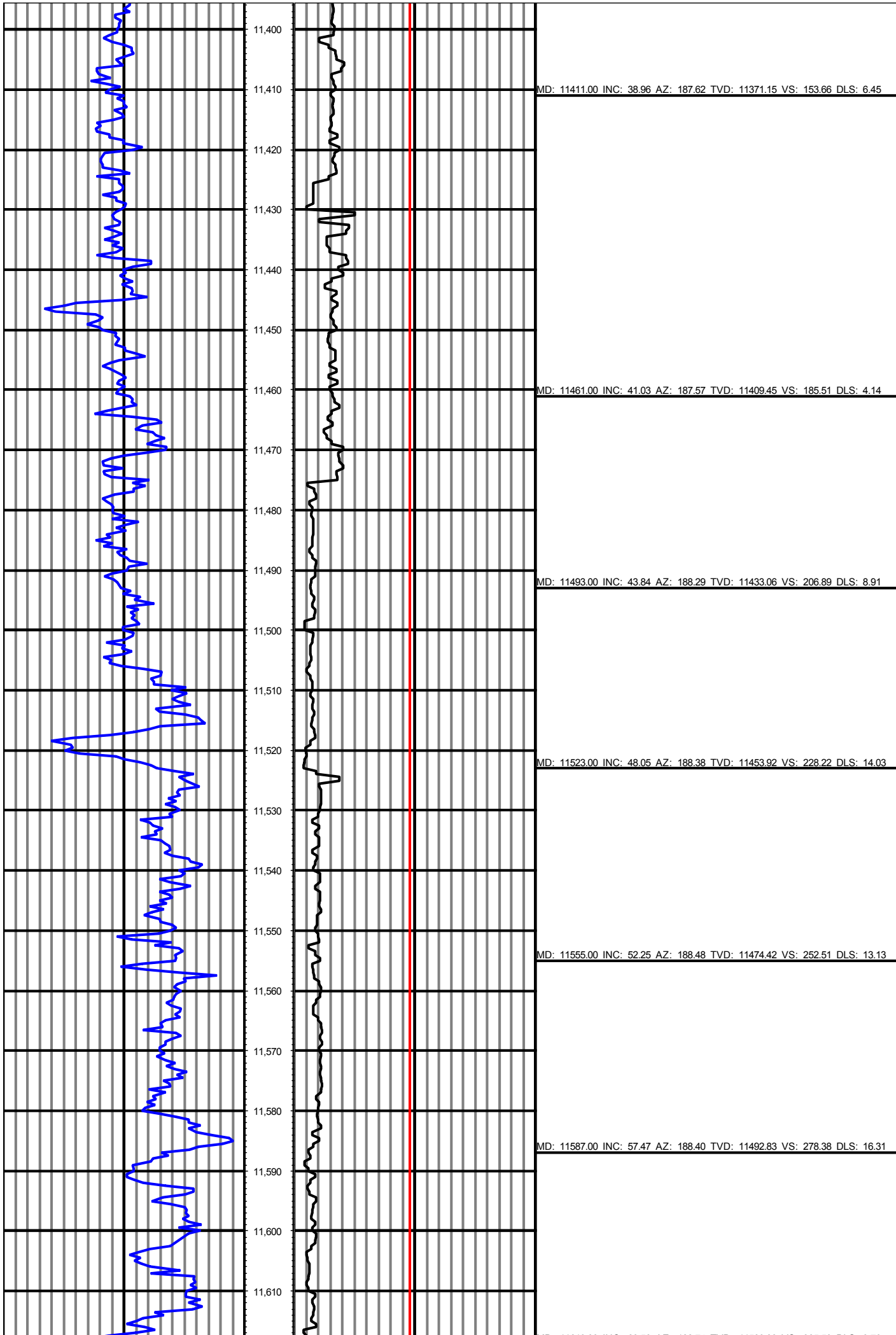
MD: 11048.00 INC: 8.60 AZ: 181.69 TVD: 11044.09 VS: 6.62 DLS: 5.66

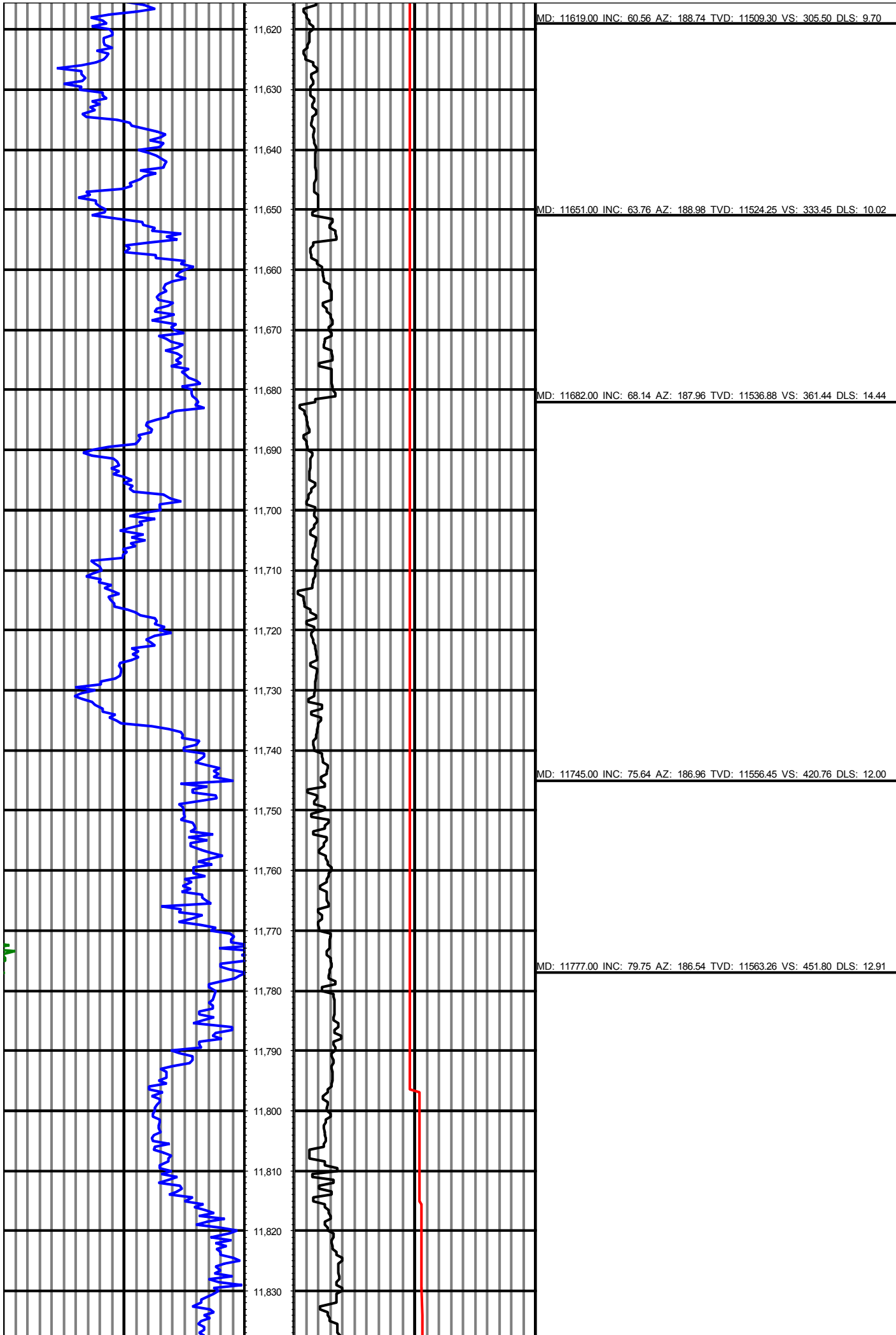
MD: 11080.00 INC: 11.14 AZ: 182.66 TVD: 11075.62 VS: 12.10 DLS: 7.95

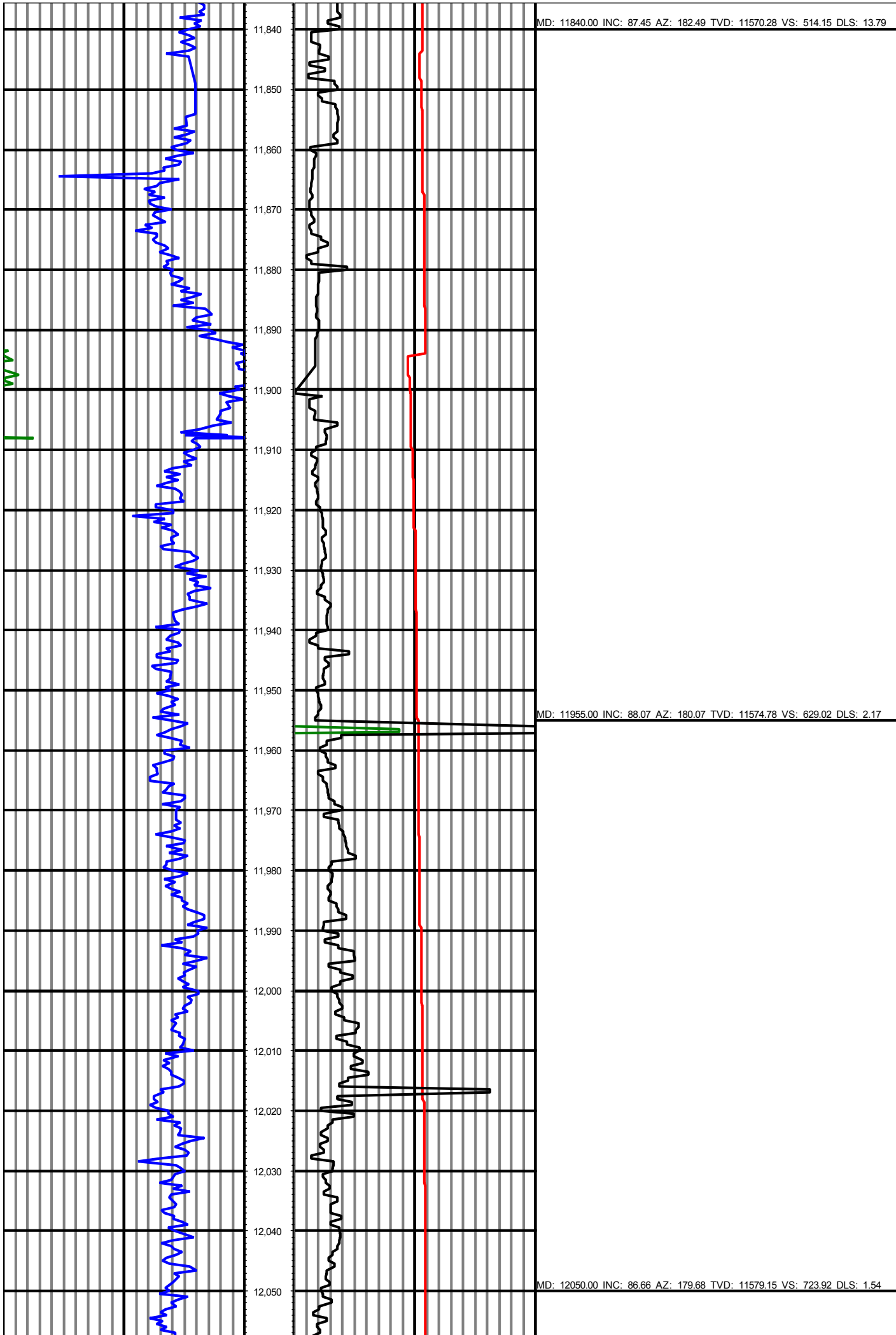
MD: 11125.00 INC: 17.63 AZ: 182.63 TVD: 11119.18 VS: 23.26 DLS: 14.42

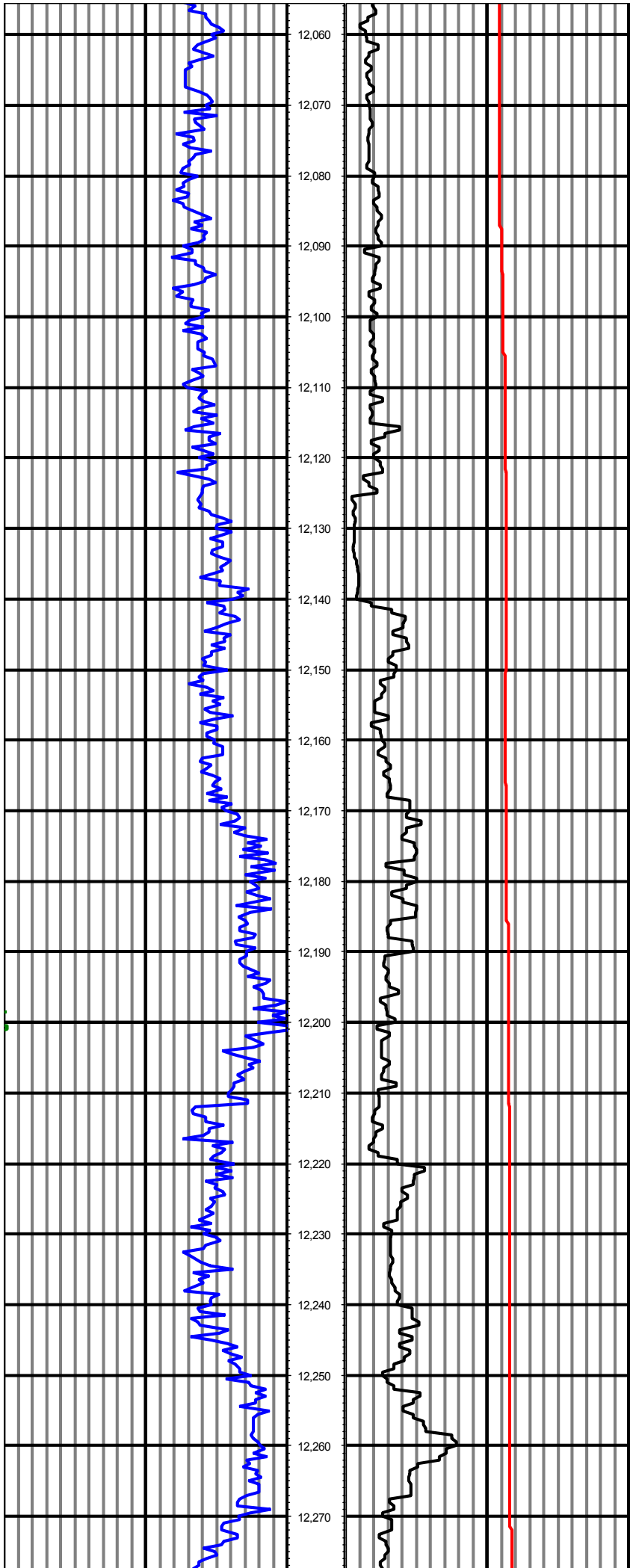
MD: 11175.00 INC: 19.95 AZ: 182.39 TVD: 11166.51 VS: 39.35 DLS: 4.64





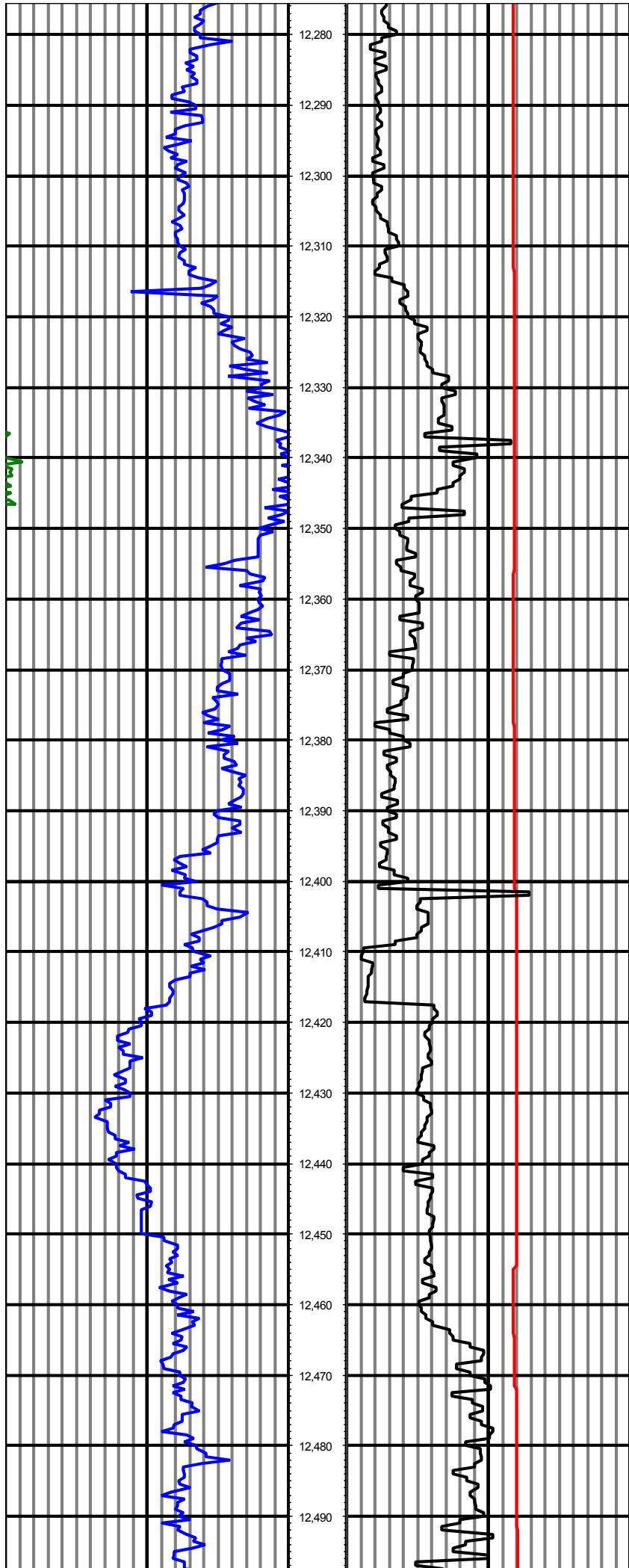






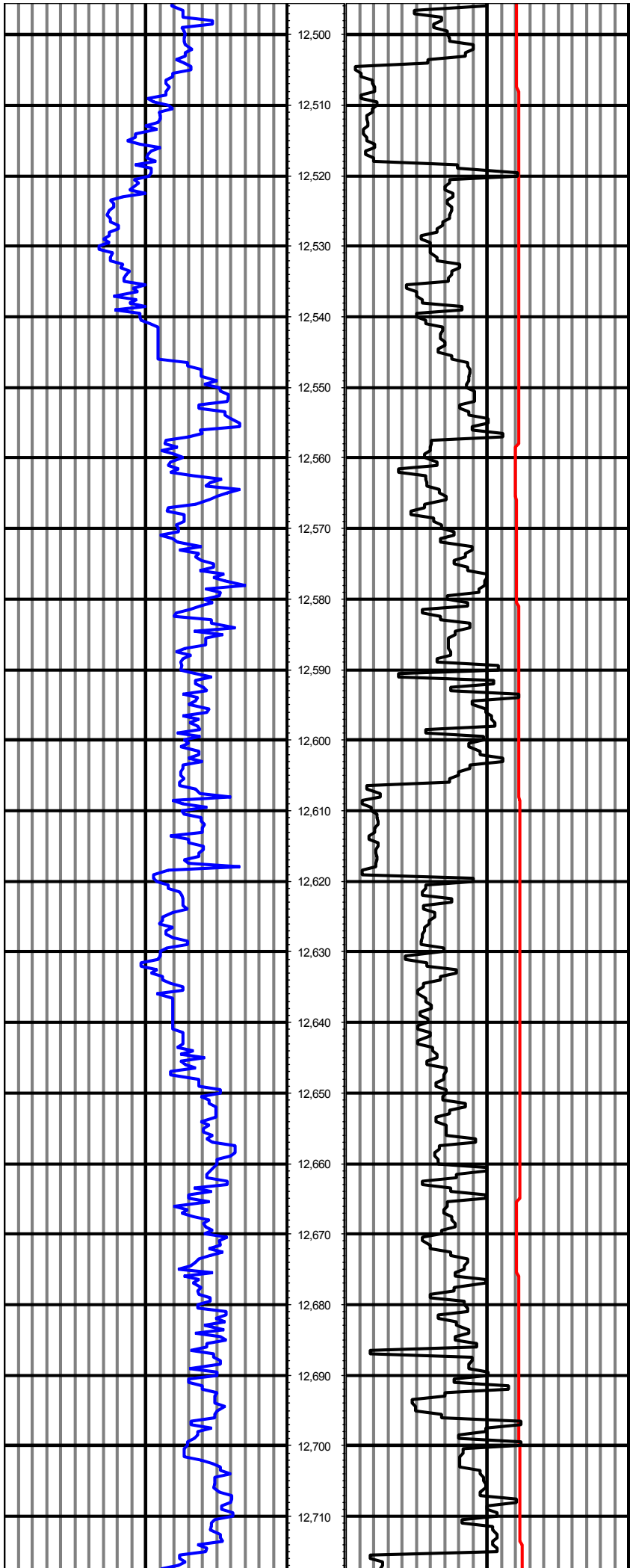
MD: 12145.00 INC: 90.27 AZ: 180.56 TVD: 11581.69 VS: 818.87 DLS: 3.91

MD: 12241.00 INC: 90.69 AZ: 180.08 TVD: 11580.89 VS: 914.86 DLS: 0.66



MD: 12336.00 INC: 90.81 AZ: 179.95 TVD: 11579.64 VS: 1009.85 DLS: 0.19

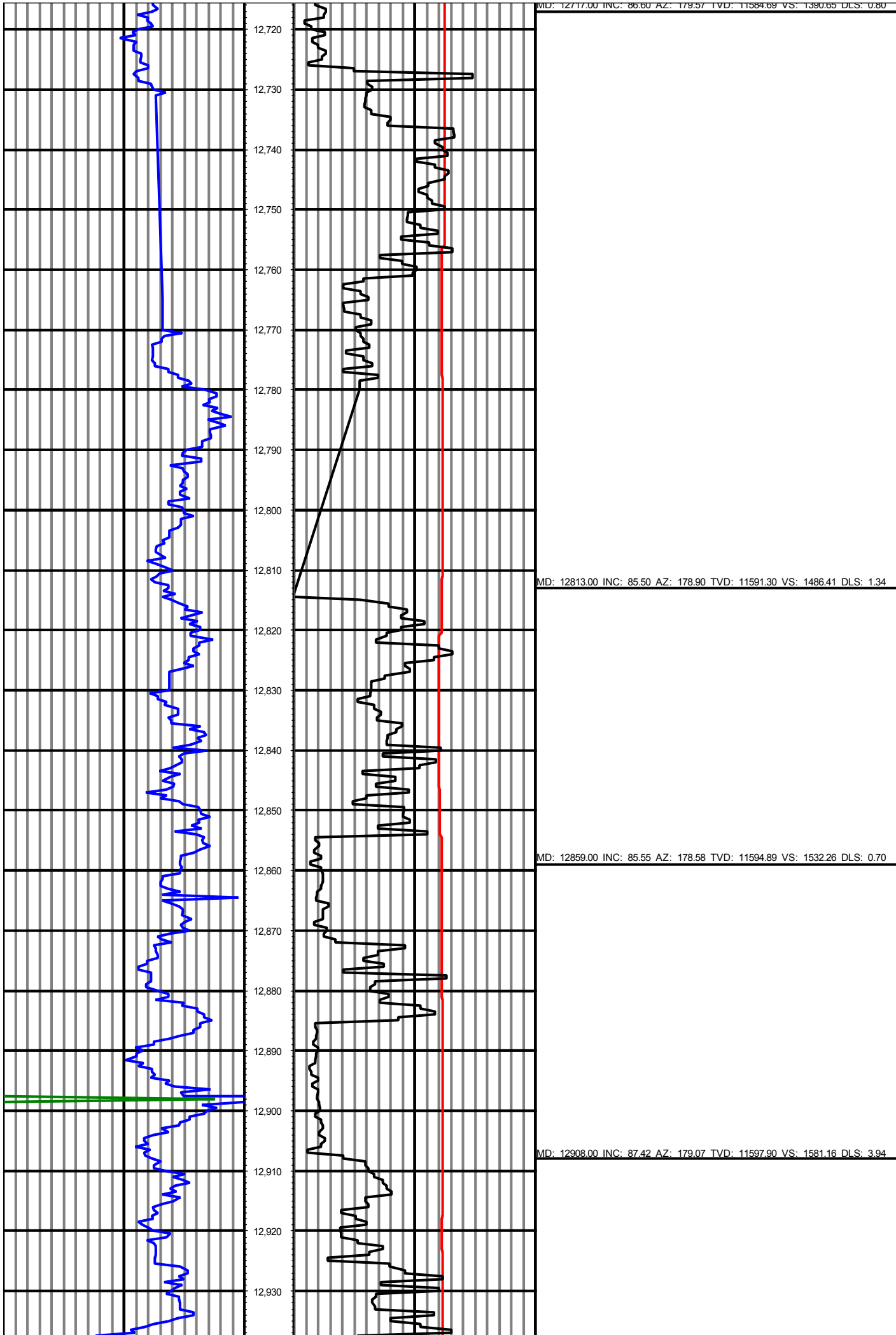
MD: 12432.00 INC: 91.24 AZ: 179.65 TVD: 11577.93 VS: 1105.84 DLS: 0.55

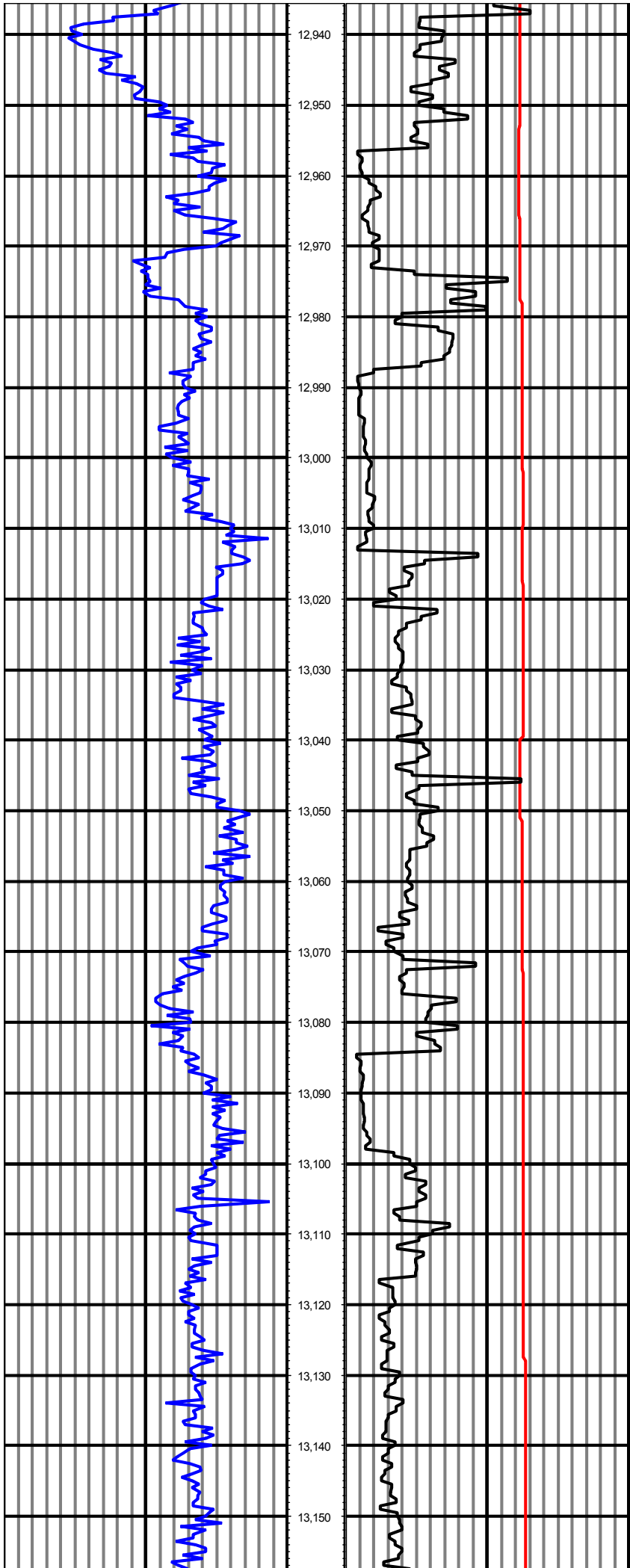


MD: 12527.00 INC: 89.71 AZ: 179.29 TVD: 11577.14 VS: 1200.83 DLS: 1.65

MD: 12622.00 INC: 87.29 AZ: 179.89 TVD: 11579.63 VS: 1295.78 DLS: 2.62

MD: 12717.00 INC: 86.60 AZ: 179.57 TVD: 11584.69 VS: 1390.65 DLS: 0.80



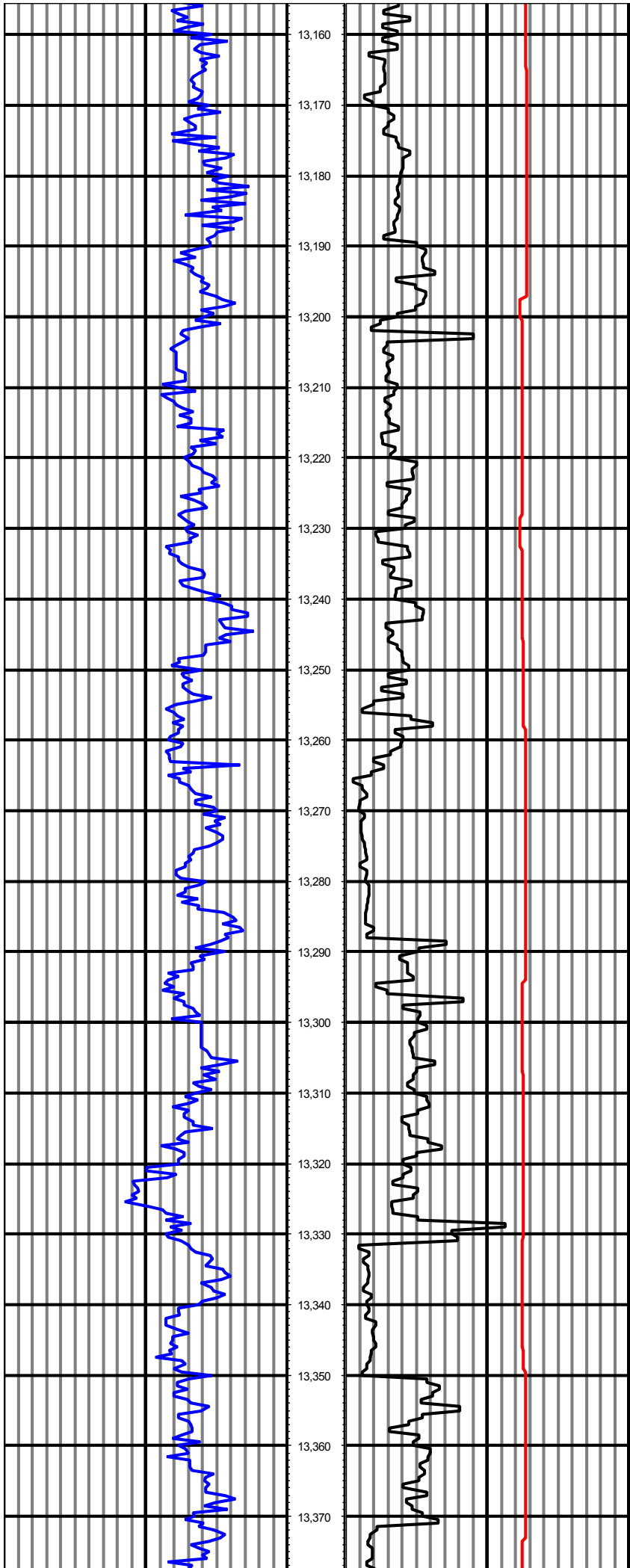


MD: 12955.00 INC: 87.56 AZ: 179.22 TVD: 11599.95 VS: 1628.11 DLS: 0.44

MD: 13002.00 INC: 89.62 AZ: 179.29 TVD: 11601.11 VS: 1675.09 DLS: 4.39

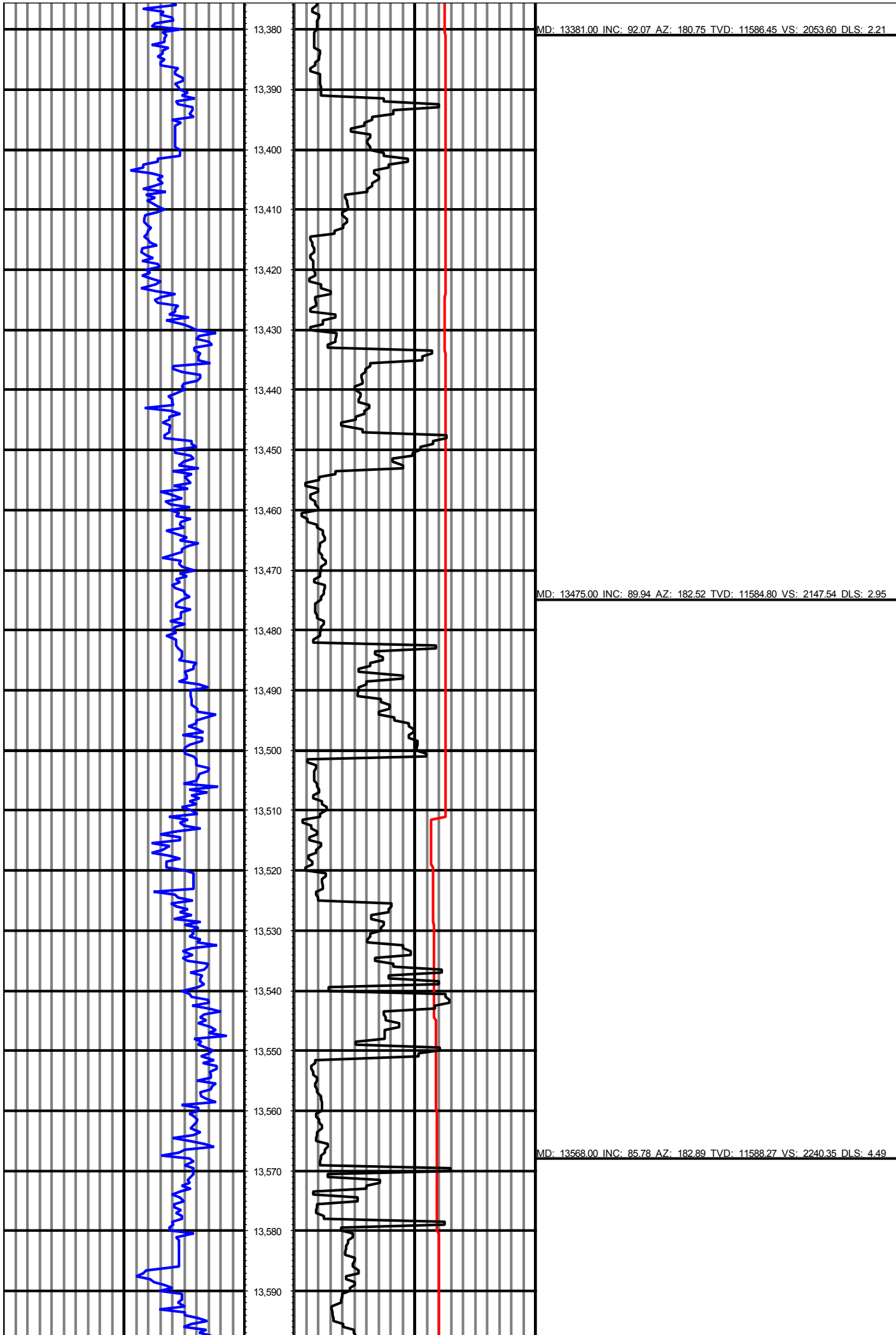
MD: 13040.00 INC: 89.40 AZ: 179.44 TVD: 11601.44 VS: 1713.08 DLS: 0.70

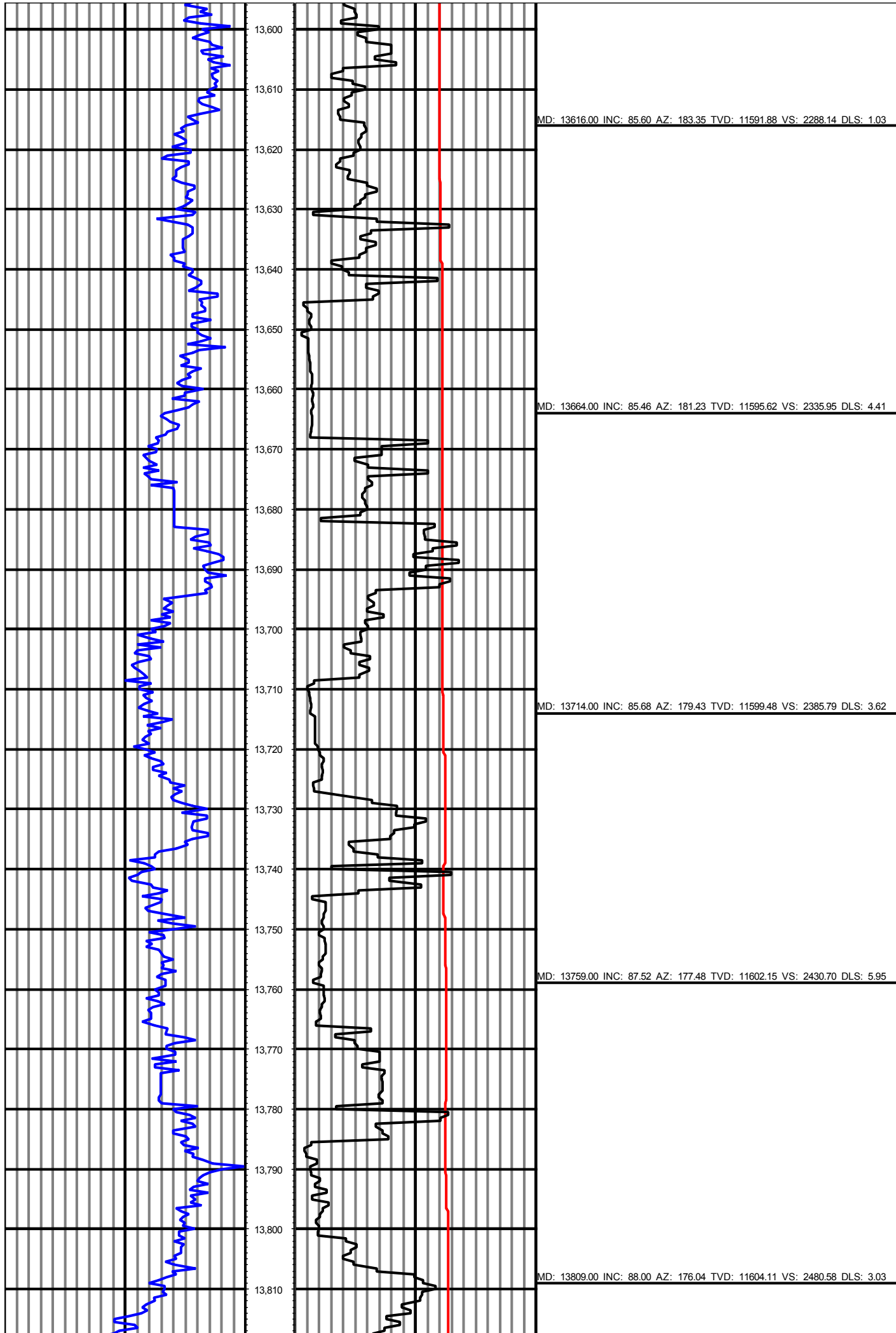
MD: 13097.00 INC: 90.00 AZ: 179.09 TVD: 11601.73 VS: 1770.08 DLS: 1.22

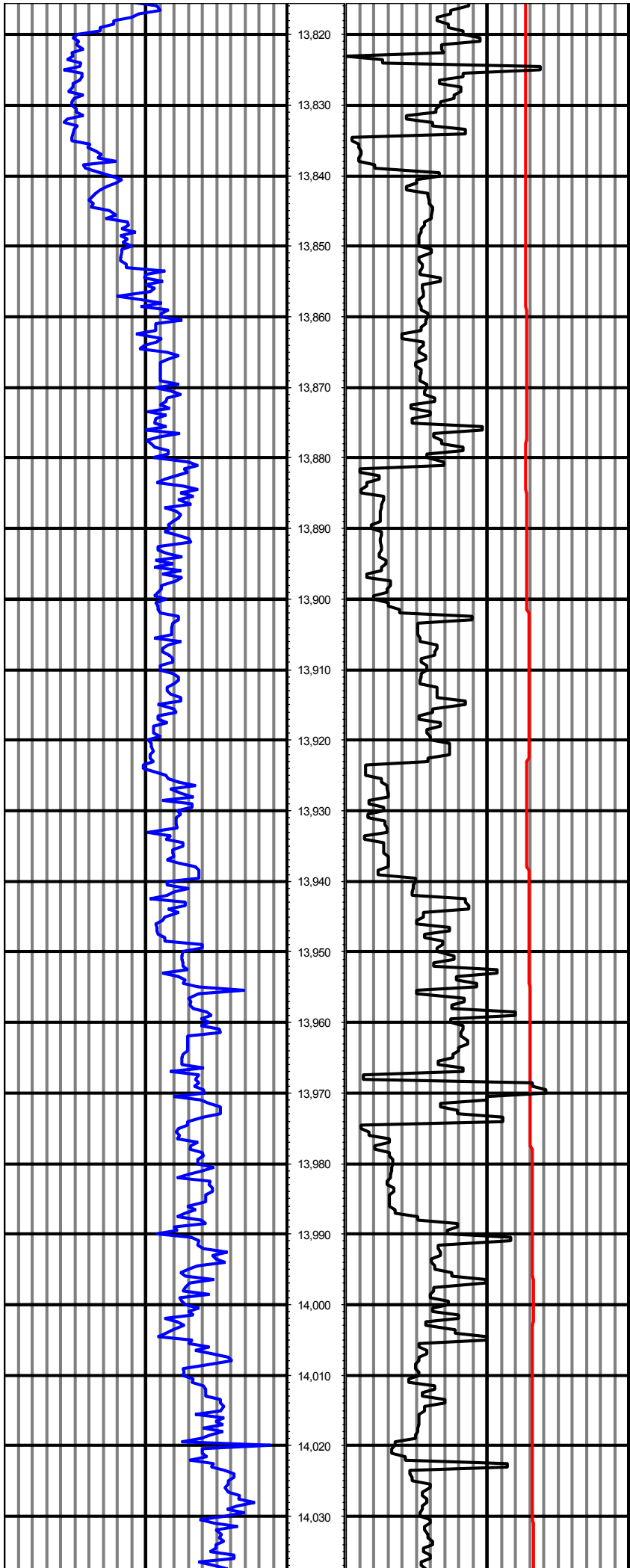


MD: 13190.00 INC: 94.19 AZ: 179.60 TVD: 11598.33 VS: 1862.99 DLS: 4.54

MD: 13286.00 INC: 94.00 AZ: 179.93 TVD: 11591.48 VS: 1958.74 DLS: 0.40





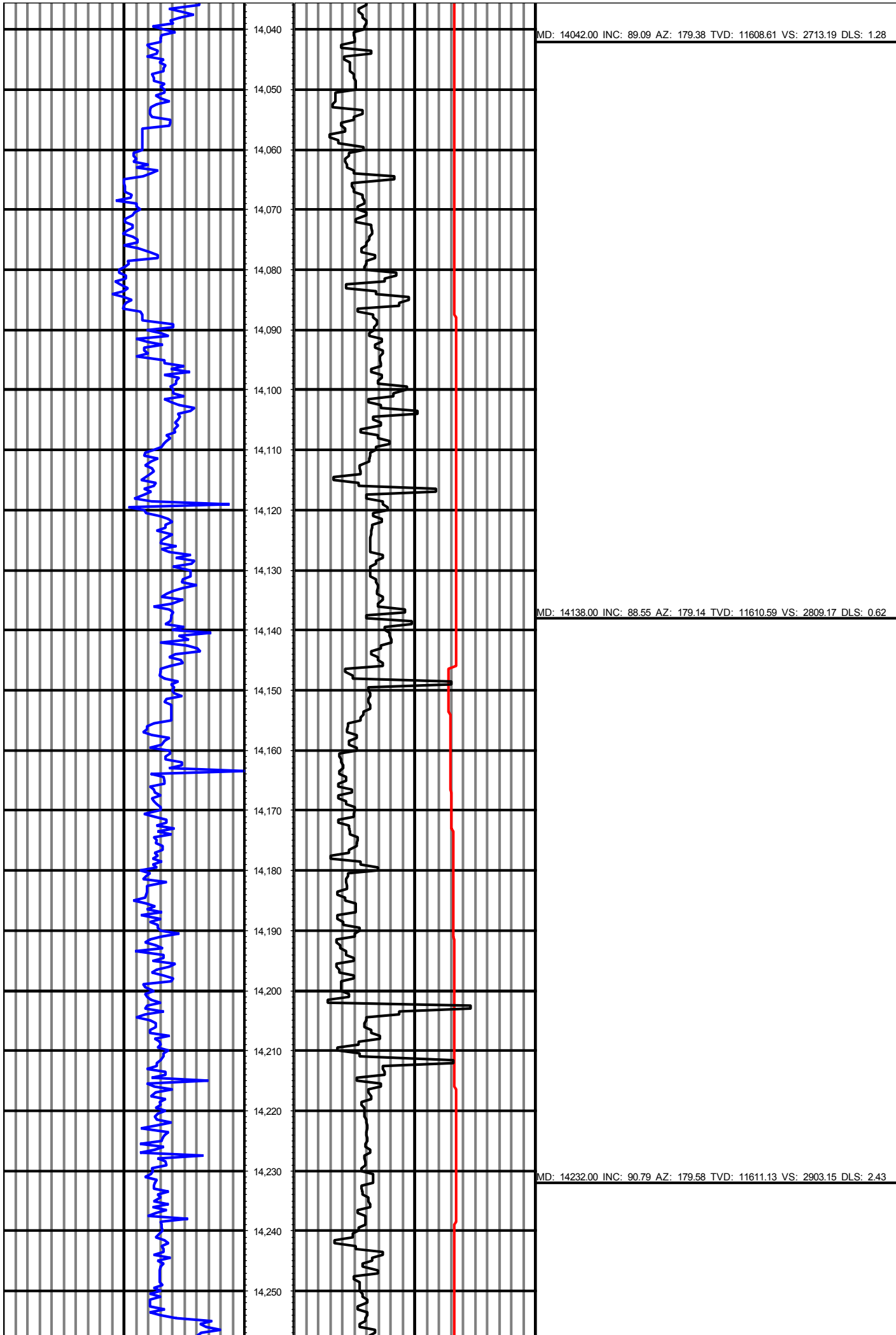


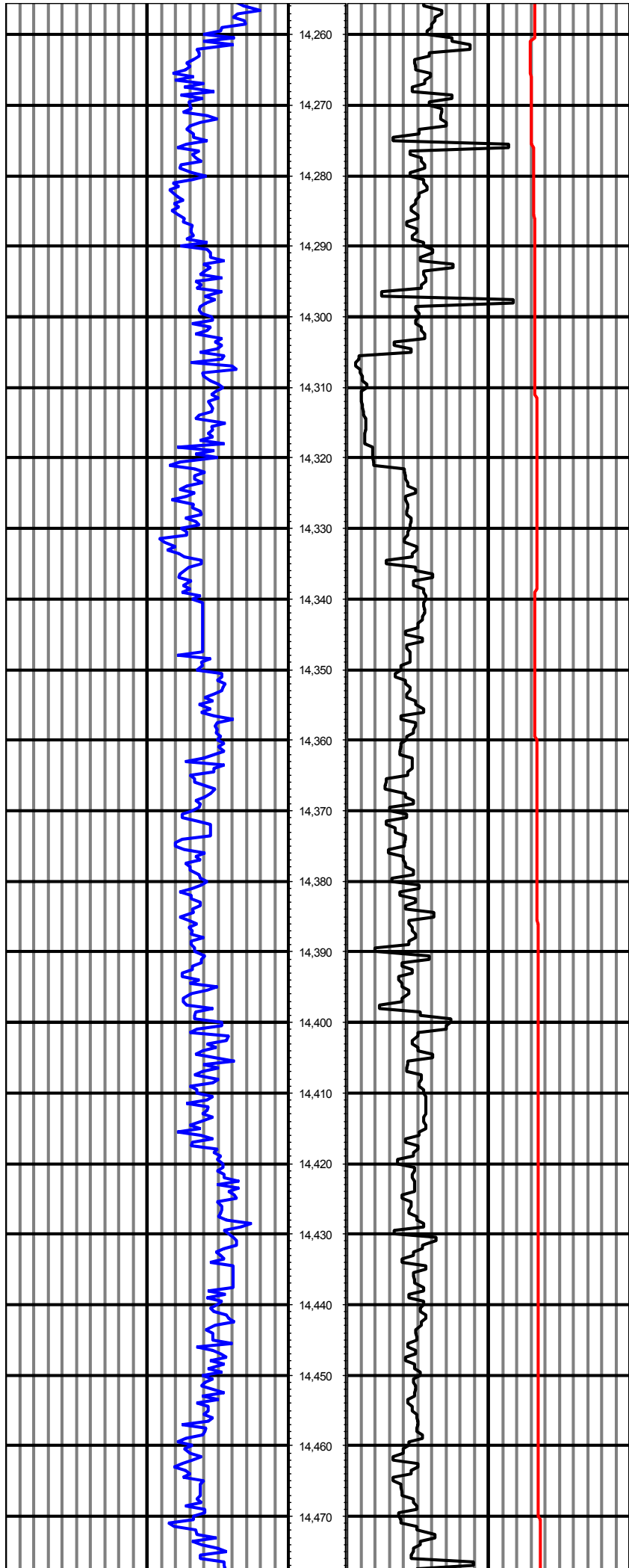
MD: 13852.00 INC: 87.88 AZ: 175.34 TVD: 11605.65 VS: 2523.43 DLS: 1.65

MD: 13902.00 INC: 90.01 AZ: 176.32 TVD: 11606.57 VS: 2573.29 DLS: 4.69

MD: 13948.00 INC: 89.20 AZ: 177.87 TVD: 11606.89 VS: 2619.23 DLS: 3.80

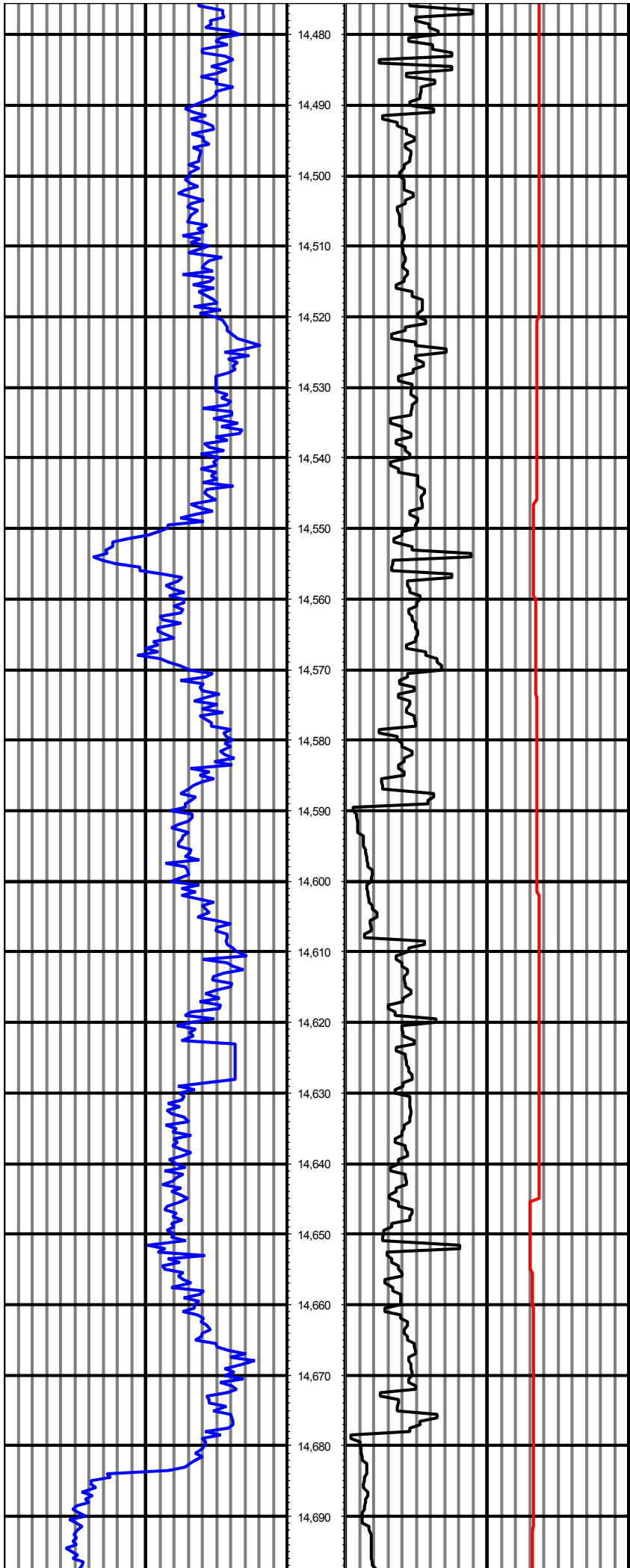
MD: 13998.00 INC: 88.75 AZ: 178.93 TVD: 11607.78 VS: 2669.21 DLS: 2.30





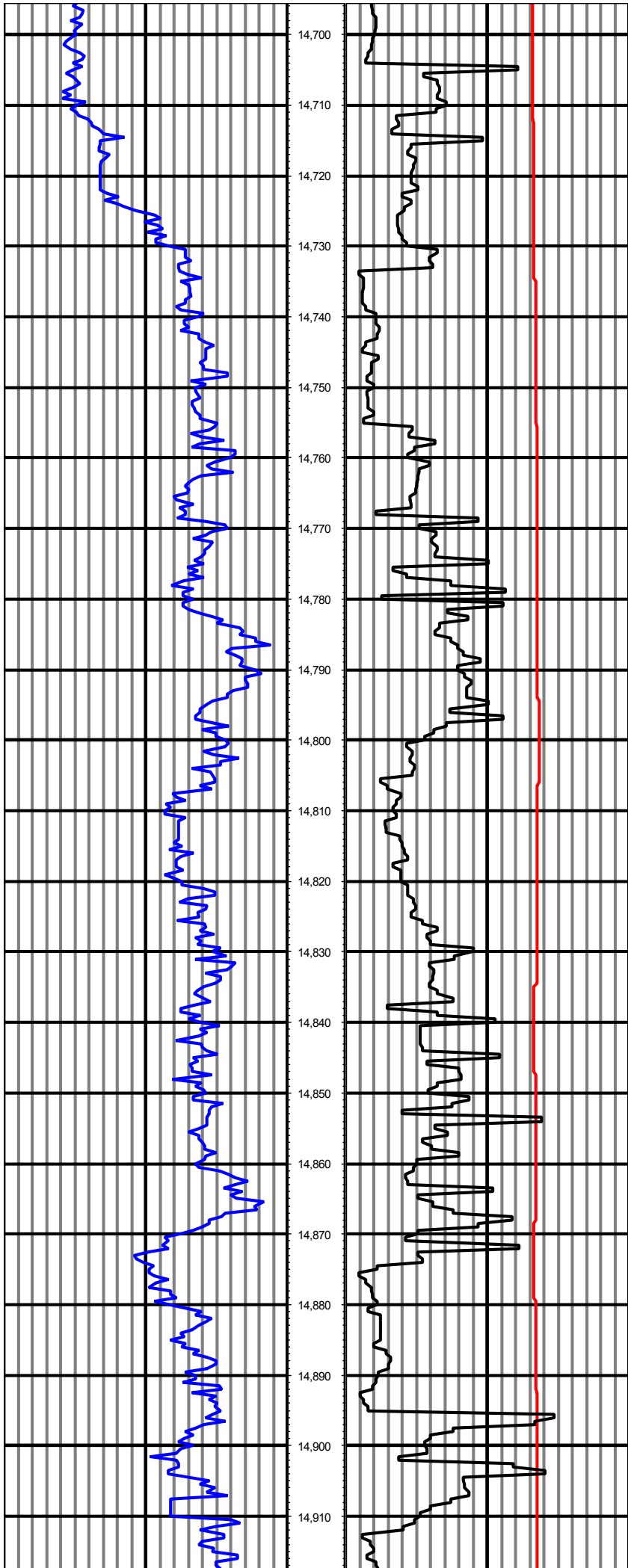
MD: 14326.00 INC: 88.35 AZ: 180.07 TVD: 11611.84 VS: 2997.14 DLS: 2.65

MD: 14420.00 INC: 87.68 AZ: 180.10 TVD: 11615.09 VS: 3091.09 DLS: 0.71



MD: 14514.00 INC: 90.63 AZ: 181.07 TVD: 11616.48 VS: 3185.06 DLS: 3.30

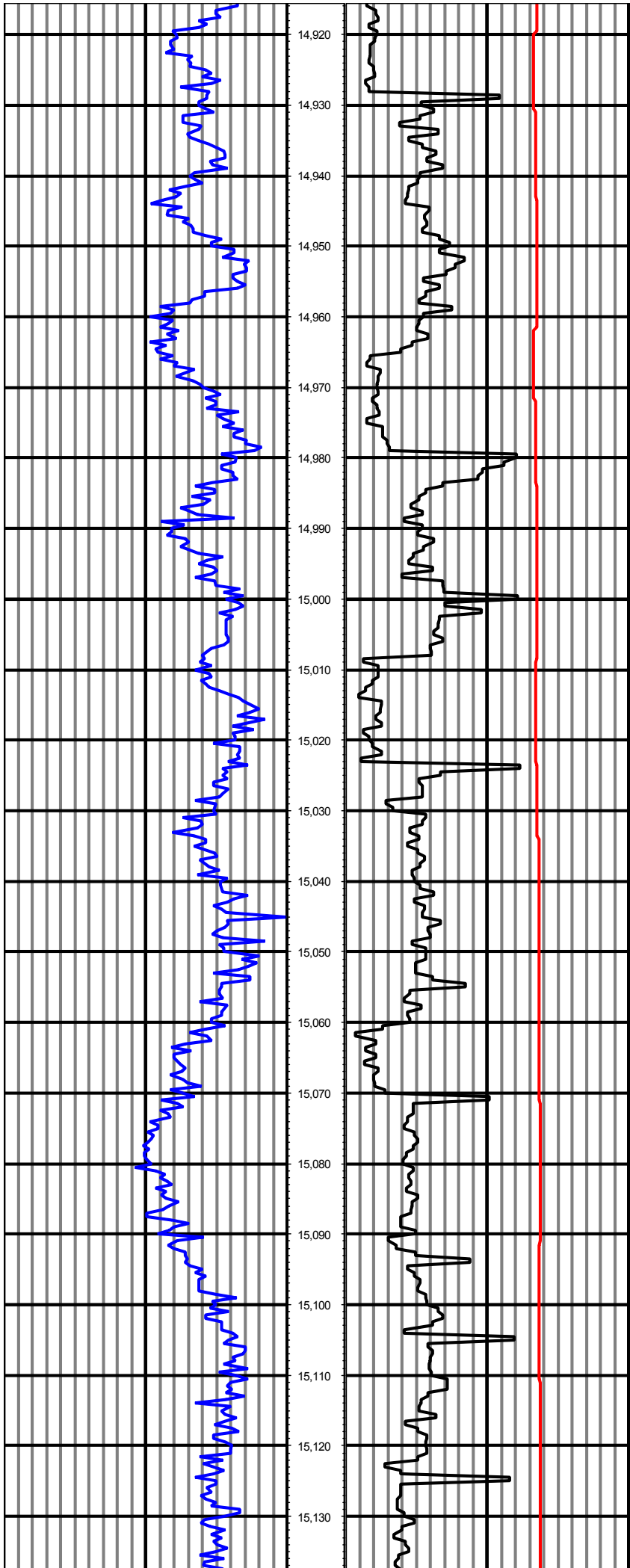
MD: 14608.00 INC: 91.58 AZ: 182.00 TVD: 11614.67 VS: 3279.00 DLS: 1.41



MD: 14704.00 INC: 89.86 AZ: 181.13 TVD: 11613.46 VS: 3374.95 DLS: 2.01

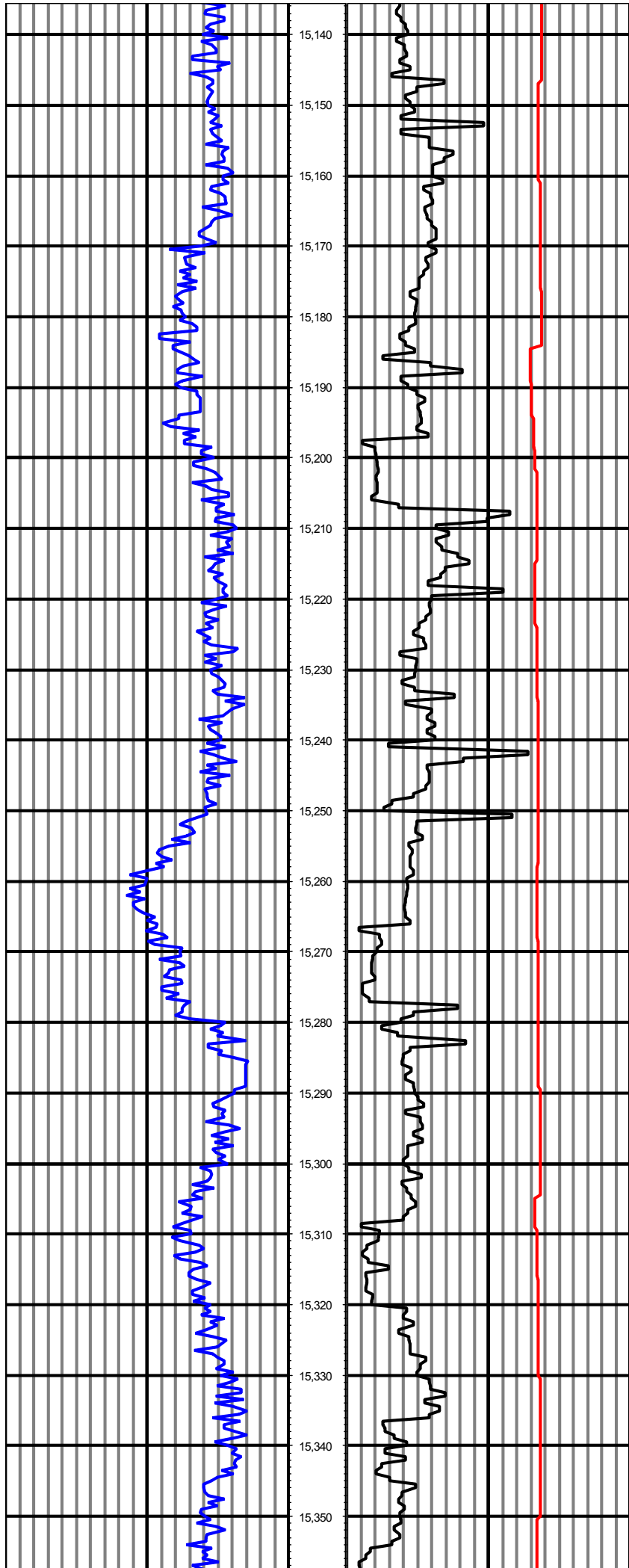
MD: 14797.00 INC: 85.93 AZ: 179.15 TVD: 11616.88 VS: 3467.87 DLS: 4.73

MD: 14893.00 INC: 86.94 AZ: 177.35 TVD: 11622.85 VS: 3563.63 DLS: 2.15



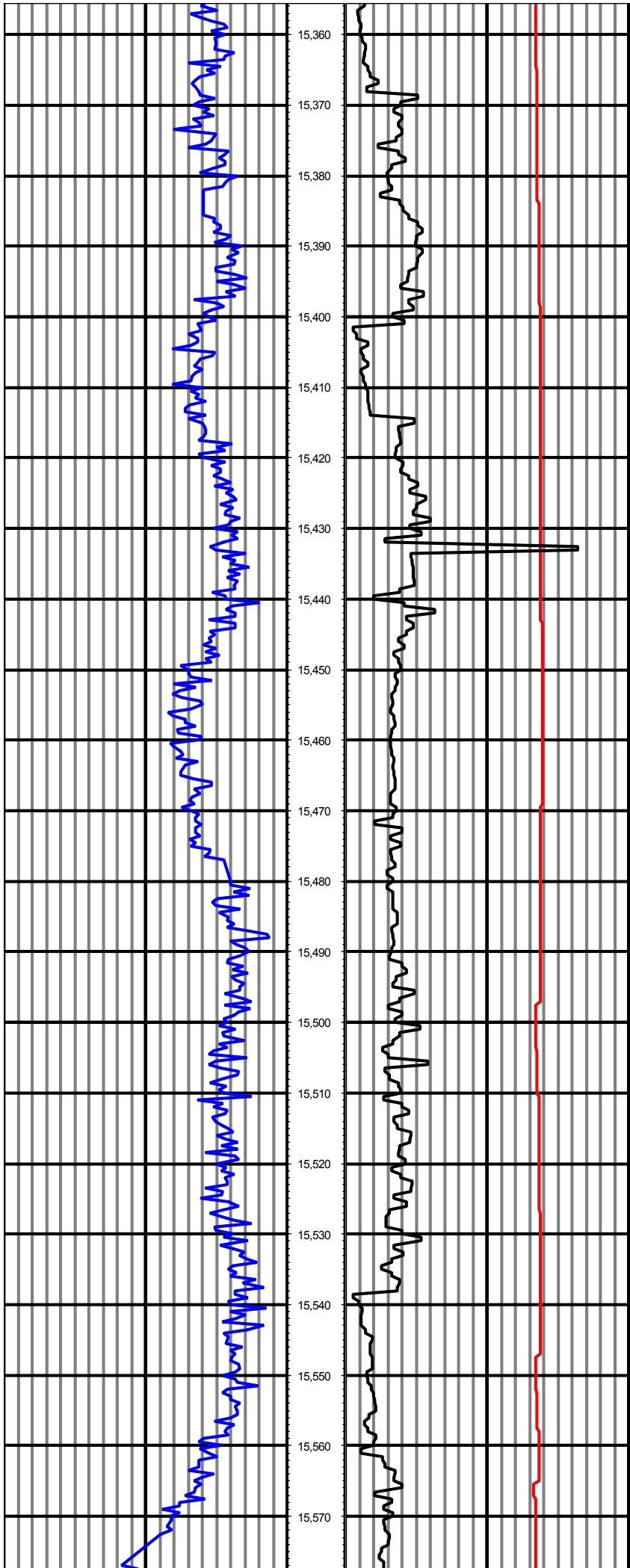
MD: 14989.00 INC: 91.12 AZ: 178.14 TVD: 11624.47 VS: 3659.53 DLS: 4.43

MD: 15082.00 INC: 89.09 AZ: 179.22 TVD: 11624.30 VS: 3752.50 DLS: 2.47



MD: 15177.00 INC: 88.17 AZ: 179.29 TVD: 11626.57 VS: 3847.46 DLS: 0.97

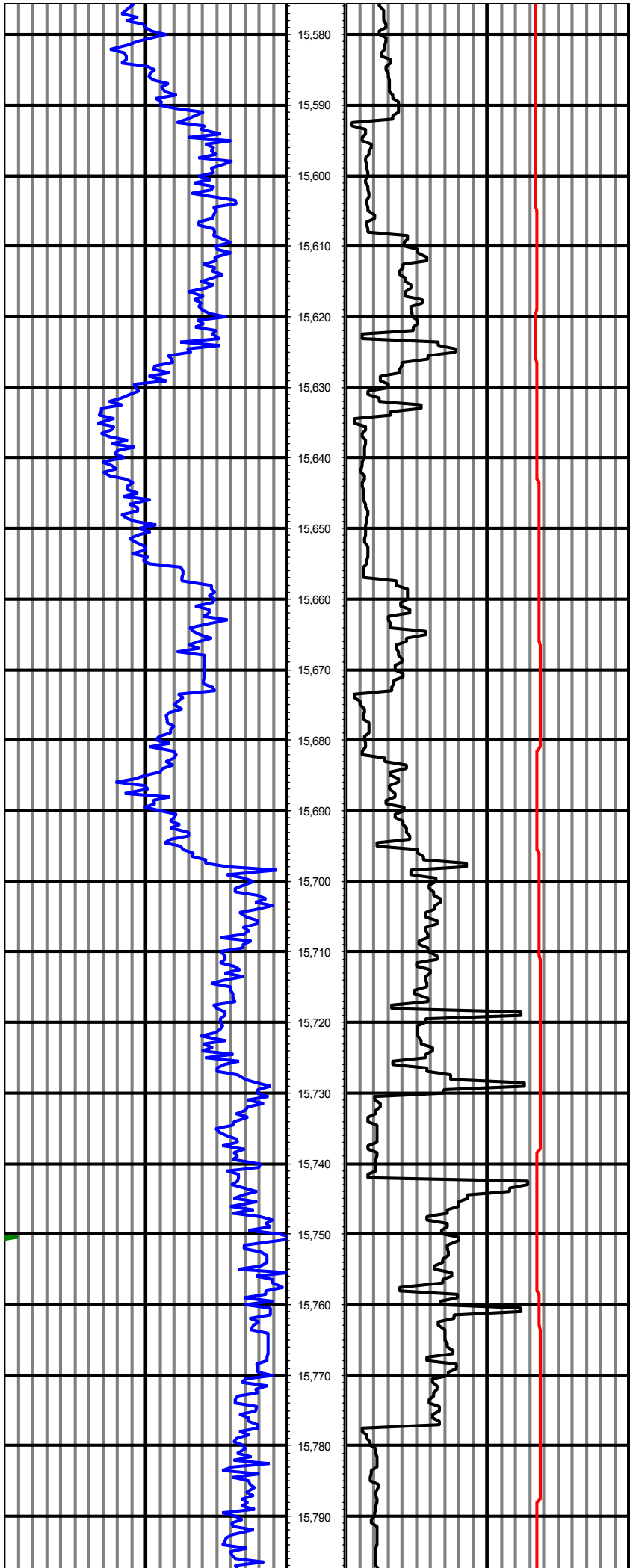
MD: 15272.00 INC: 85.58 AZ: 179.99 TVD: 11631.75 VS: 3942.31 DLS: 2.82



MD: 15368.00 INC: 87.80 AZ: 179.76 TVD: 11637.29 VS: 4038.15 DLS: 2.32

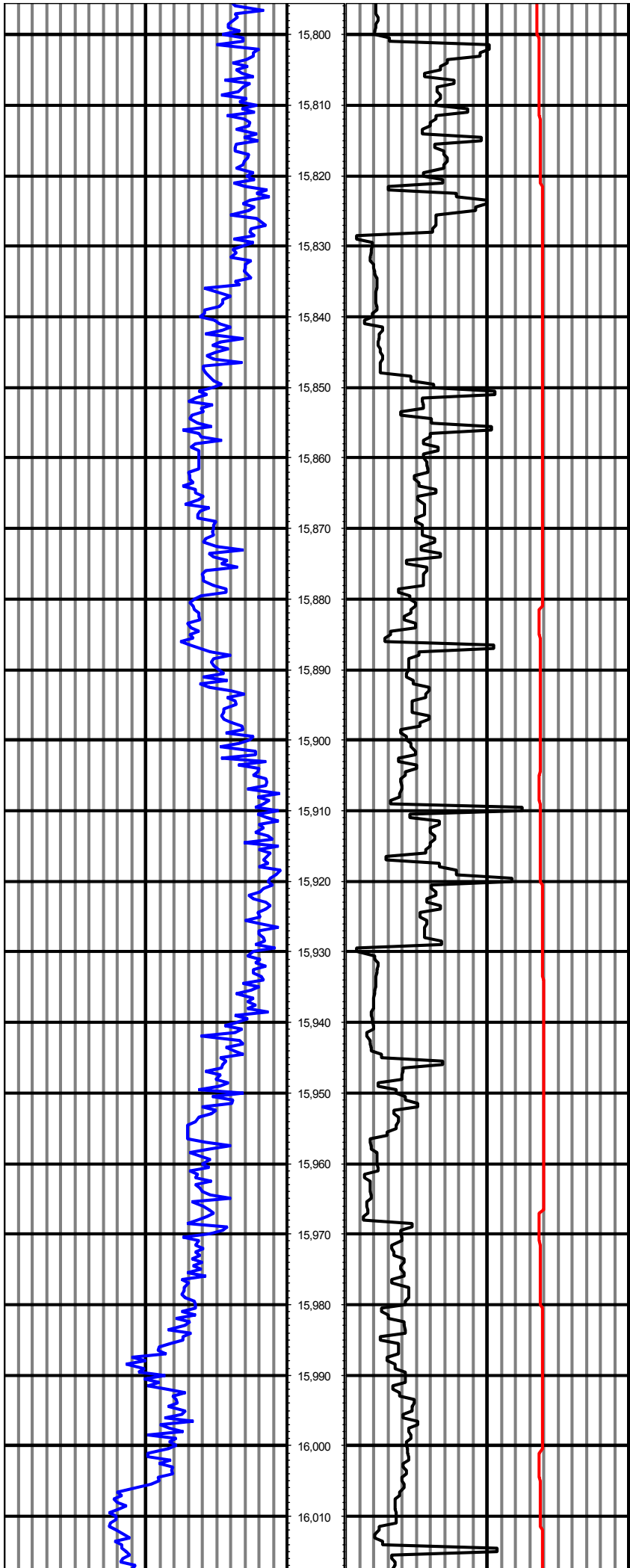
MD: 15463.00 INC: 86.58 AZ: 178.70 TVD: 11641.95 VS: 4133.02 DLS: 1.70

MD: 15559.00 INC: 86.25 AZ: 179.67 TVD: 11647.95 VS: 4228.82 DLS: 1.07



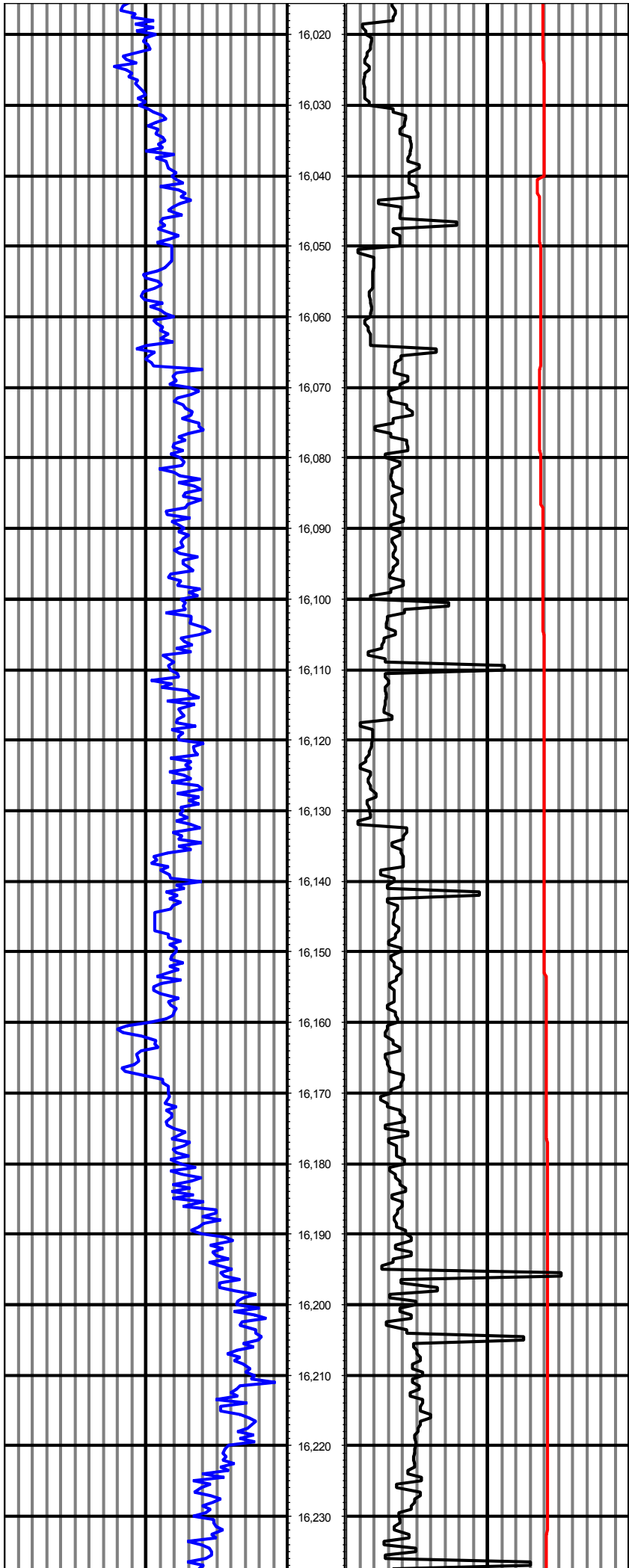
MD: 15654.00 INC: 89.10 AZ: 179.58 TVD: 11651.81 VS: 4323.73 DLS: 3.00

MD: 15749.00 INC: 86.83 AZ: 178.57 TVD: 11655.18 VS: 4418.66 DLS: 2.62



MD: 15845.00 INC: 92.94 AZ: 180.18 TVD: 11655.37 VS: 4514.60 DLS: 6.58

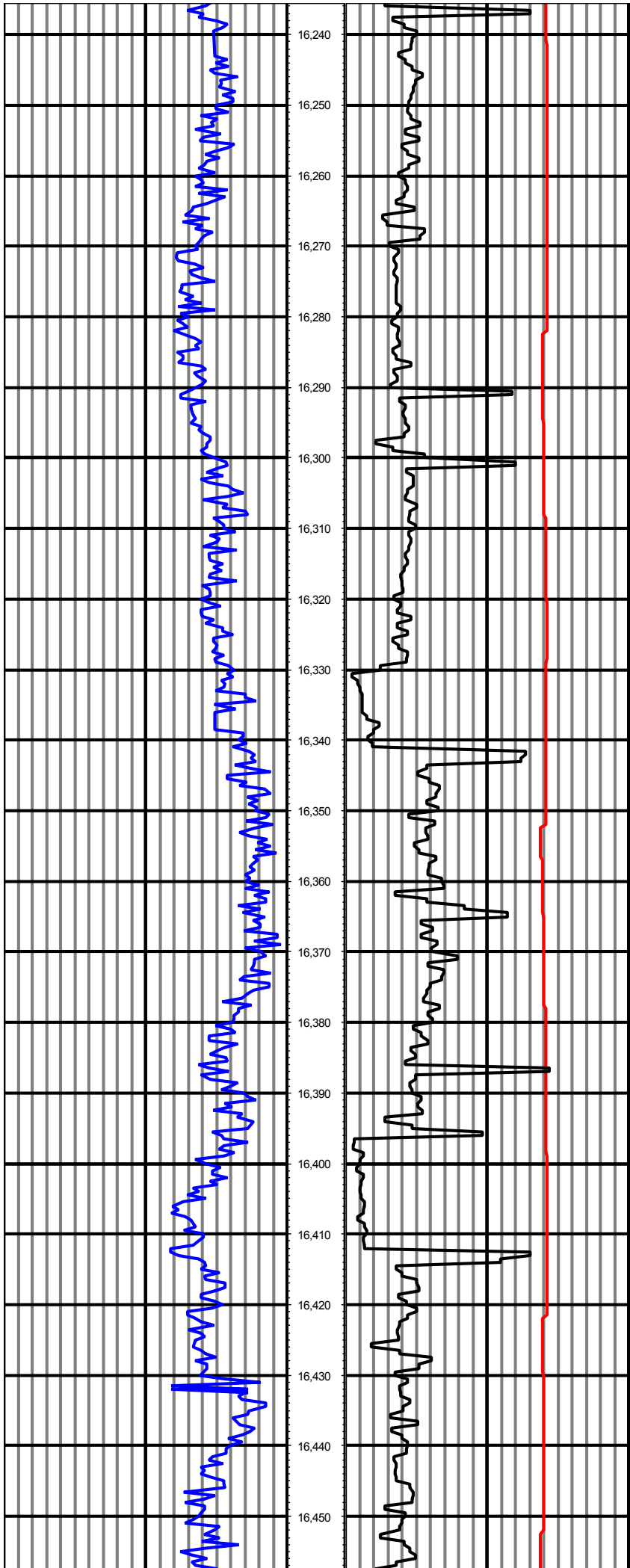
MD: 15940.00 INC: 96.87 AZ: 182.16 TVD: 11647.25 VS: 4609.21 DLS: 4.63



MD: 16035.00 INC: 91.08 AZ: 182.20 TVD: 11640.67 VS: 4703.87 DLS: 6.09

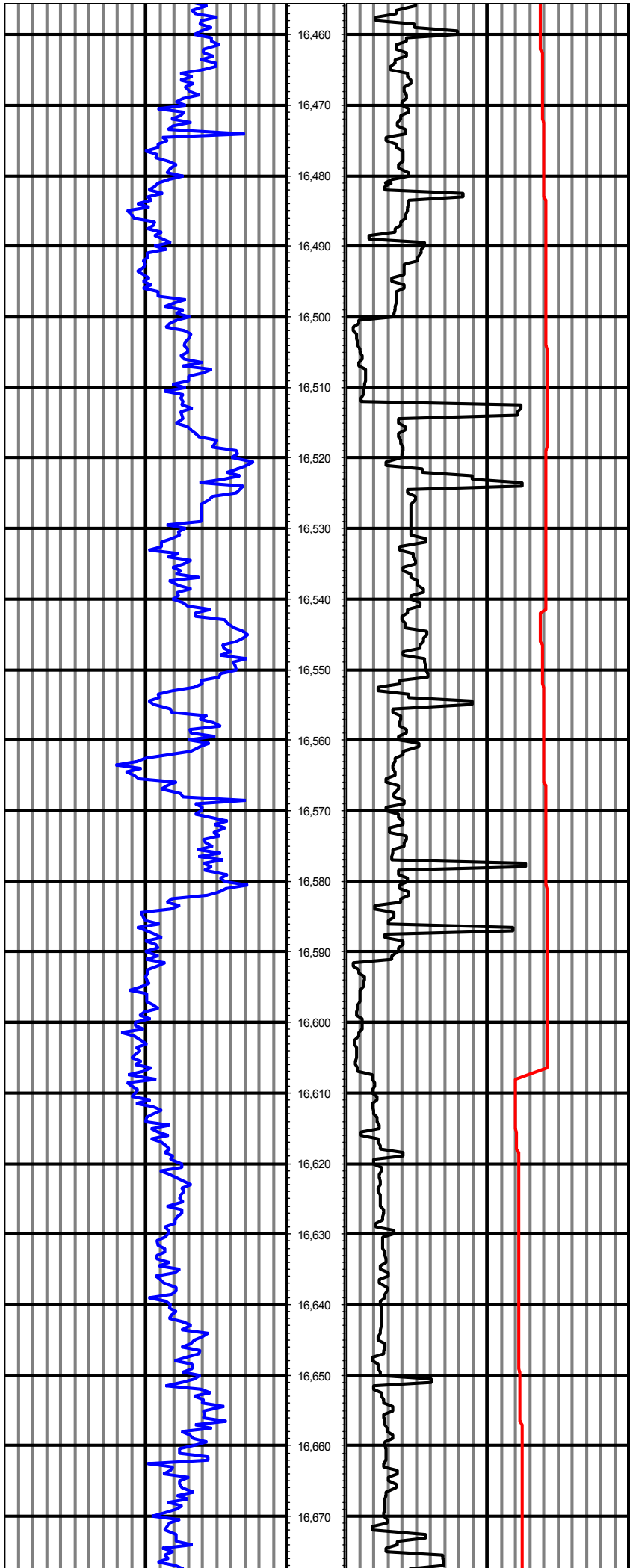
MD: 16130.00 INC: 88.85 AZ: 180.95 TVD: 11640.73 VS: 4798.82 DLS: 2.69

MD: 16225.00 INC: 87.76 AZ: 180.93 TVD: 11643.54 VS: 4893.76 DLS: 1.15



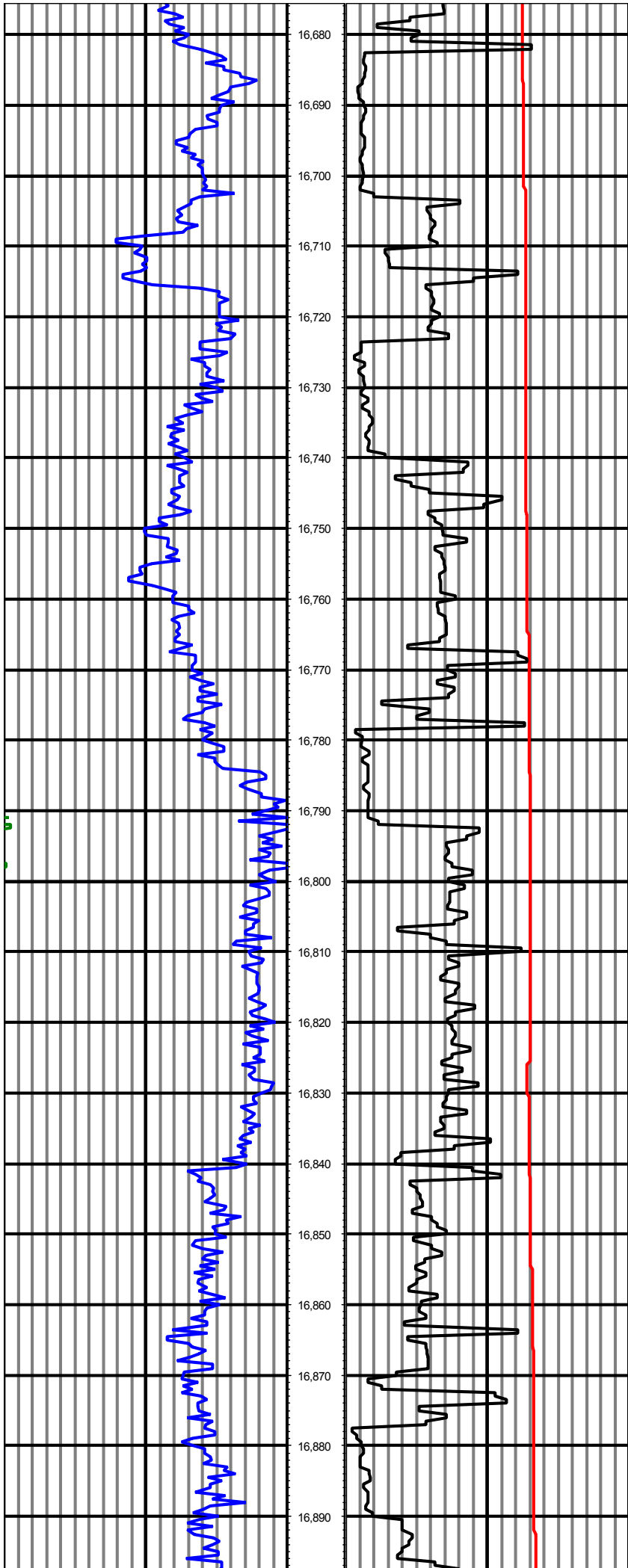
MD: 16321.00 INC: 90.65 AZ: 181.64 TVD: 11644.87 VS: 4989.72 DLS: 3.10

MD: 16417.00 INC: 84.96 AZ: 180.33 TVD: 11648.54 VS: 5085.59 DLS: 6.08



MD: 16512.00 INC: 83.55 AZ: 179.93 TVD: 11658.05 VS: 5180.11 DLS: 1.54

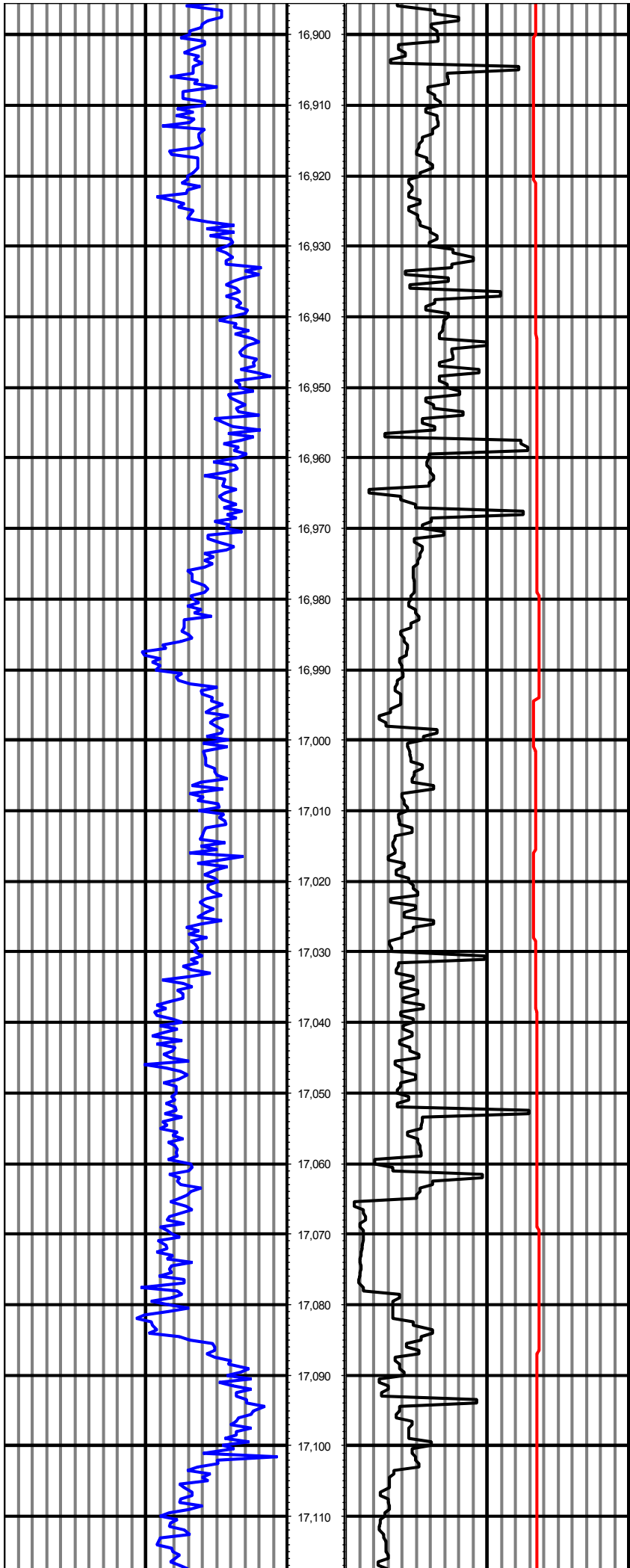
MD: 16608.00 INC: 82.44 AZ: 178.56 TVD: 11669.76 VS: 5275.38 DLS: 1.83



MD: 16704.00 INC: 82.69 AZ: 178.93 TVD: 11682.18 VS: 5370.55 DLS: 0.46

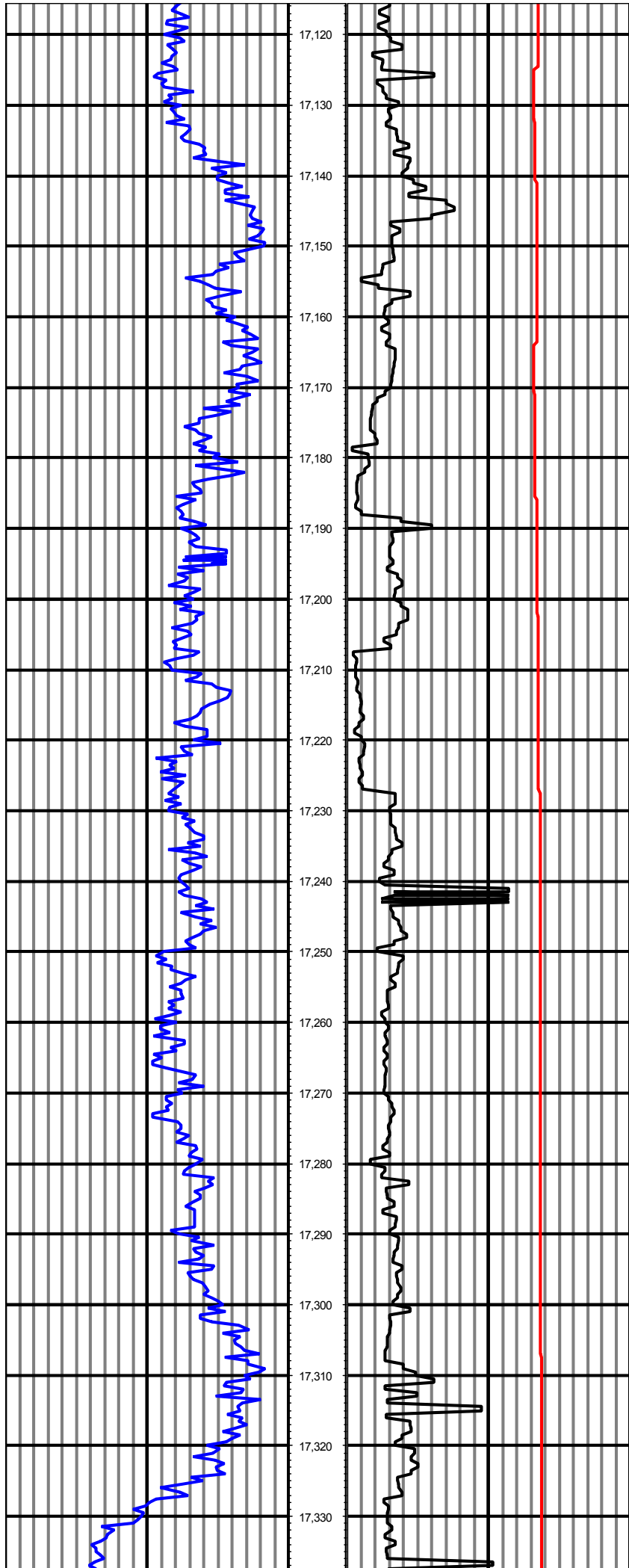
MD: 16799.00 INC: 86.68 AZ: 178.08 TVD: 11690.98 VS: 5465.10 DLS: 4.29

MD: 16893.00 INC: 88.07 AZ: 179.12 TVD: 11695.29 VS: 5558.97 DLS: 1.85



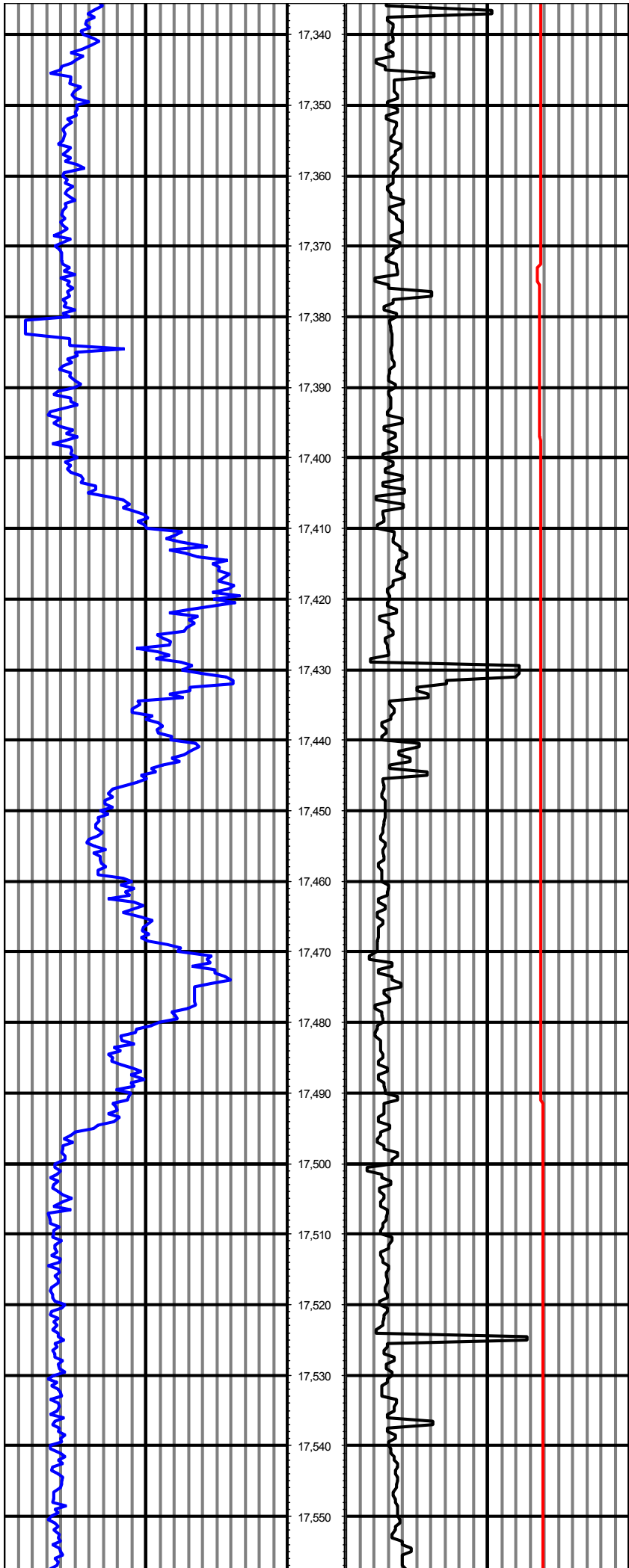
MD: 16988.00 INC: 88.73 AZ: 179.60 TVD: 11697.94 VS: 5653.92 DLS: 0.86

MD: 17083.00 INC: 88.52 AZ: 179.00 TVD: 11700.22 VS: 5748.89 DLS: 0.67



MD: 17178.00 INC: 90.83 AZ: 179.72 TVD: 11700.76 VS: 5843.88 DLS: 2.55

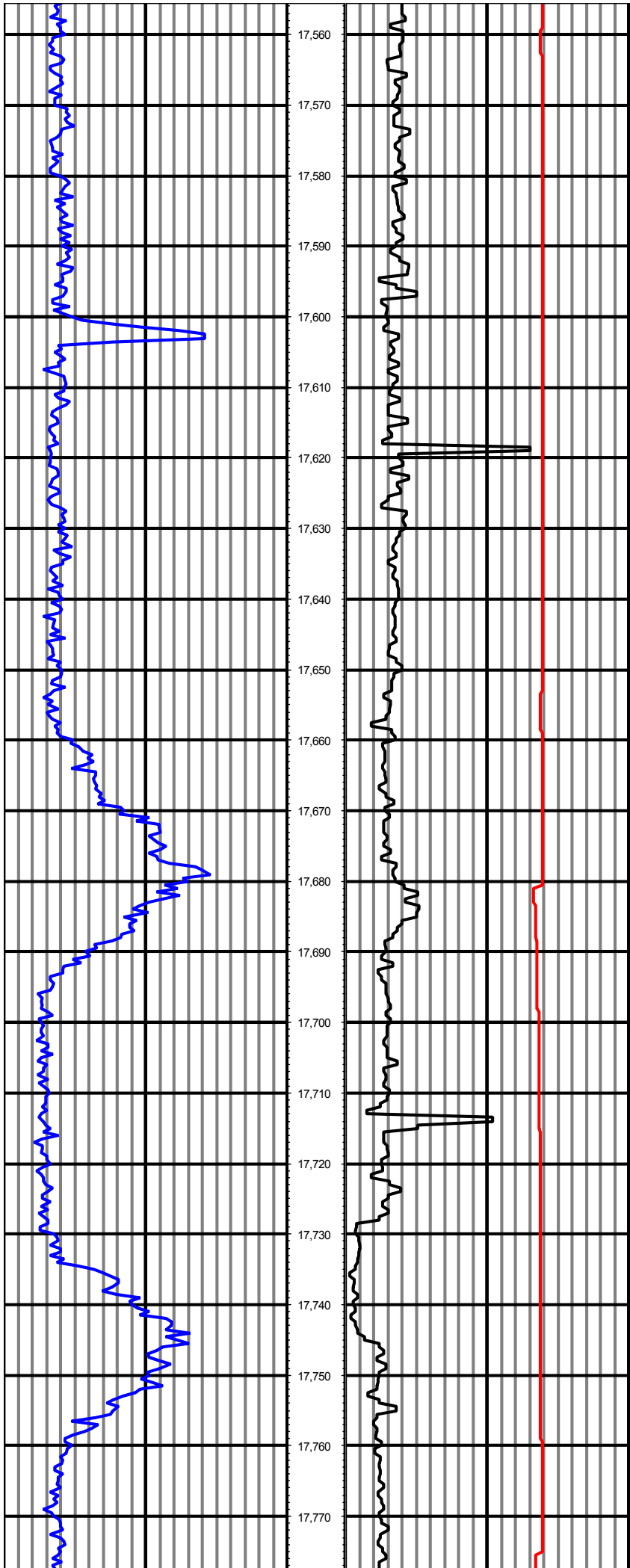
MD: 17272.00 INC: 88.22 AZ: 179.90 TVD: 11701.54 VS: 5937.87 DLS: 2.78



MD: 17367.00 INC: 87.60 AZ: 179.74 TVD: 11705.00 VS: 6032.80 DLS: 0.67

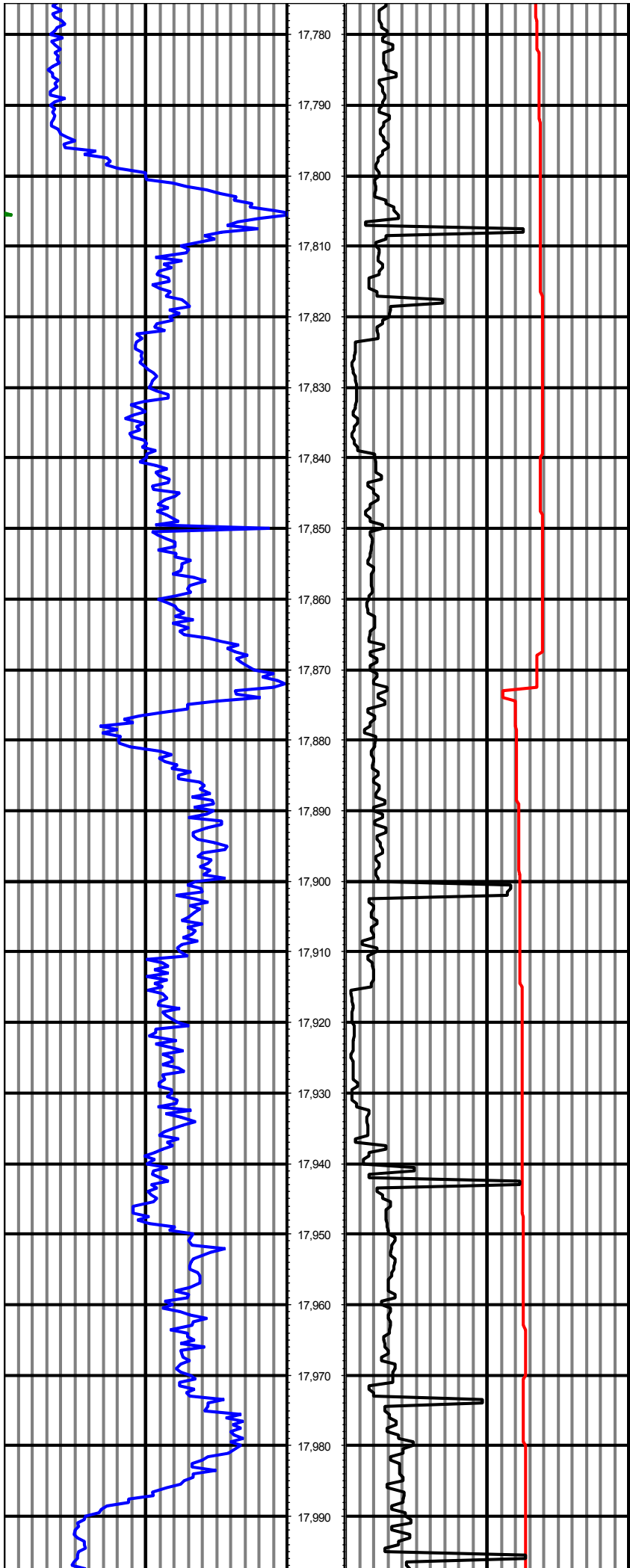
MD: 17461.00 INC: 87.83 AZ: 179.45 TVD: 11708.75 VS: 6126.73 DLS: 0.39

MD: 17555.00 INC: 87.58 AZ: 178.75 TVD: 11712.51 VS: 6220.64 DLS: 0.79



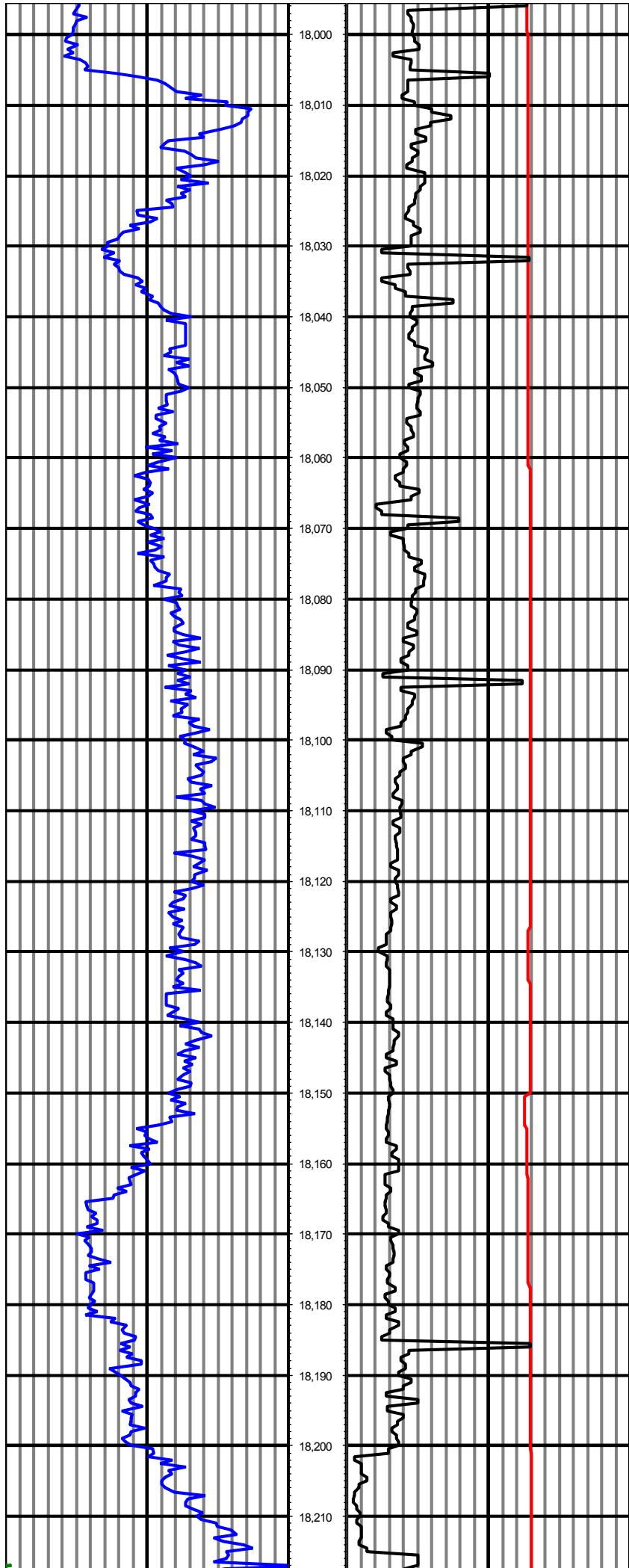
MD: 17649.00 INC: 87.25 AZ: 178.20 TVD: 11716.75 VS: 6314.51 DLS: 0.68

MD: 17744.00 INC: 88.50 AZ: 178.09 TVD: 11720.28 VS: 6409.40 DLS: 1.32



MD: 17837.00 INC: 90.82 AZ: 178.04 TVD: 11720.83 VS: 6502.34 DLS: 2.50

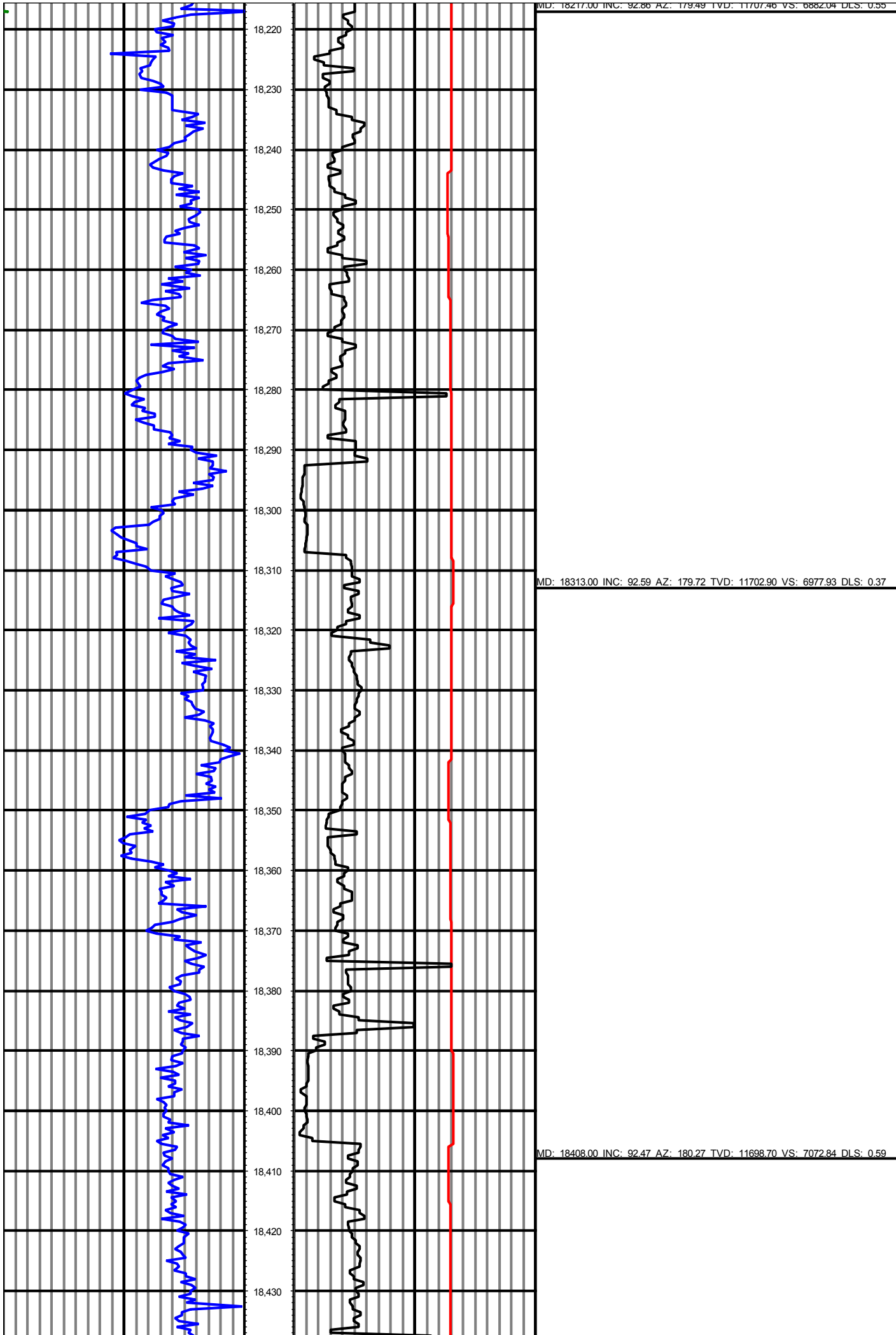
MD: 17932.00 INC: 91.33 AZ: 179.45 TVD: 11719.05 VS: 6597.30 DLS: 1.58

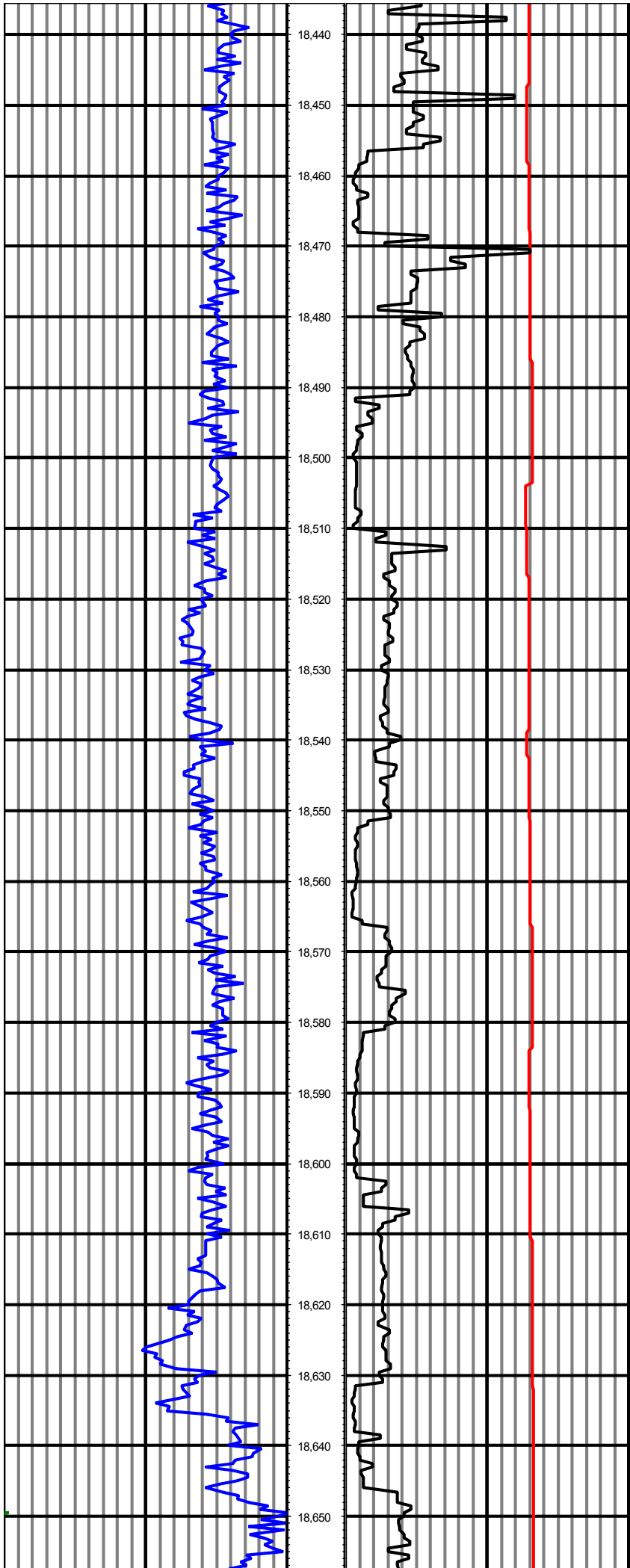


MD: 18028.00 INC: 92.37 AZ: 179.44 TVD: 11715.95 VS: 6693.25 DLS: 1.08

MD: 18122.00 INC: 92.53 AZ: 179.08 TVD: 11711.93 VS: 6787.15 DLS: 0.42

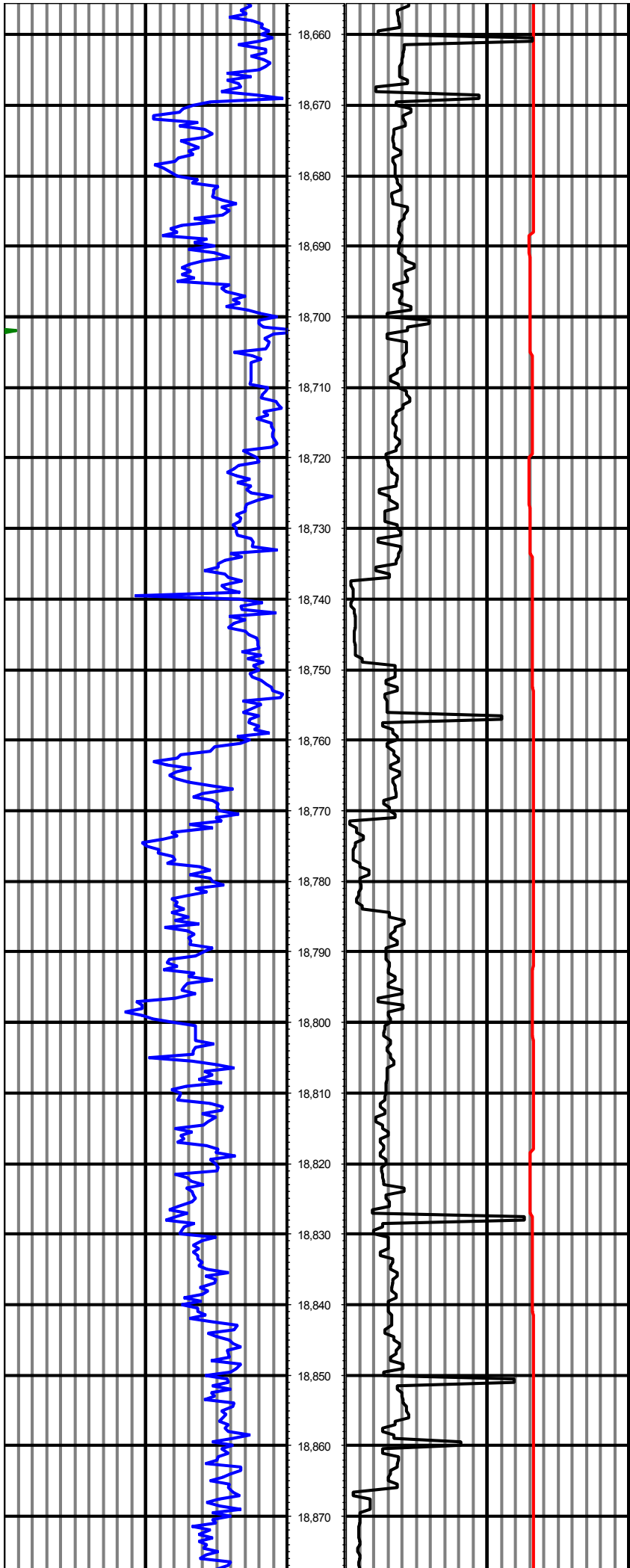
MD: 18217.00 INC: 92.86 AZ: 179.49 TVD: 11707.46 VS: 6882.04 DLS: 0.55





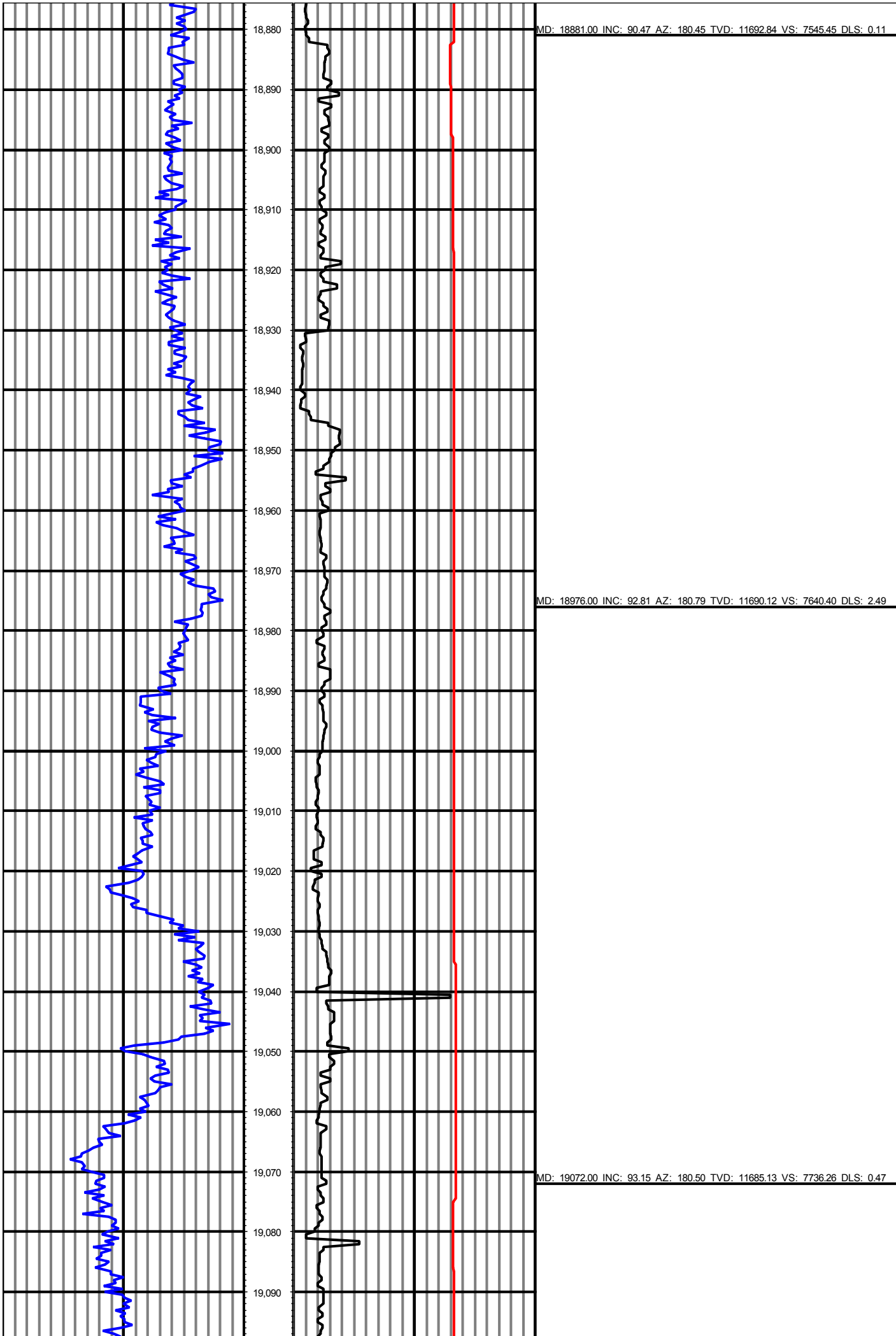
MD: 18502.00 INC: 92.44 AZ: 182.55 TVD: 11694.68 VS: 7166.71 DLS: 2.42

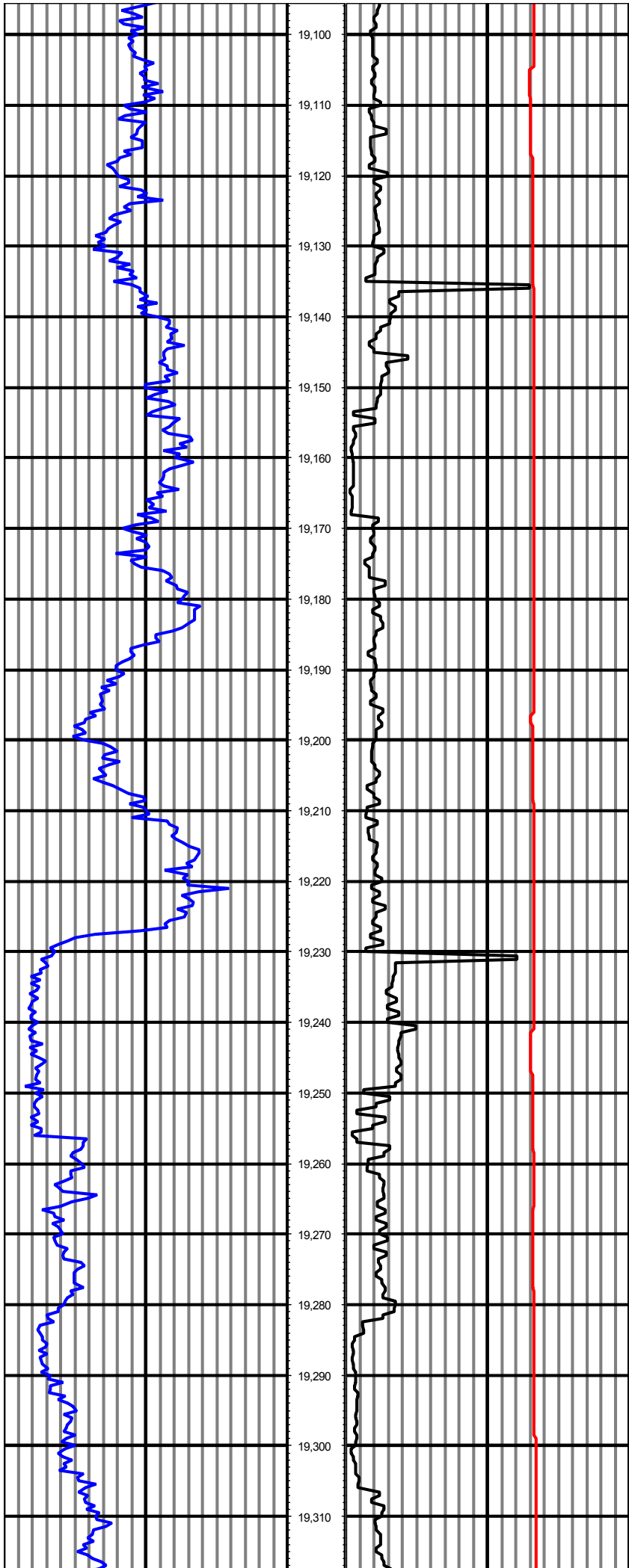
MD: 18597.00 INC: 89.58 AZ: 182.67 TVD: 11693.00 VS: 7261.59 DLS: 3.01



MD: 18693.00 INC: 89.65 AZ: 182.22 TVD: 11693.65 VS: 7357.49 DLS: 0.47

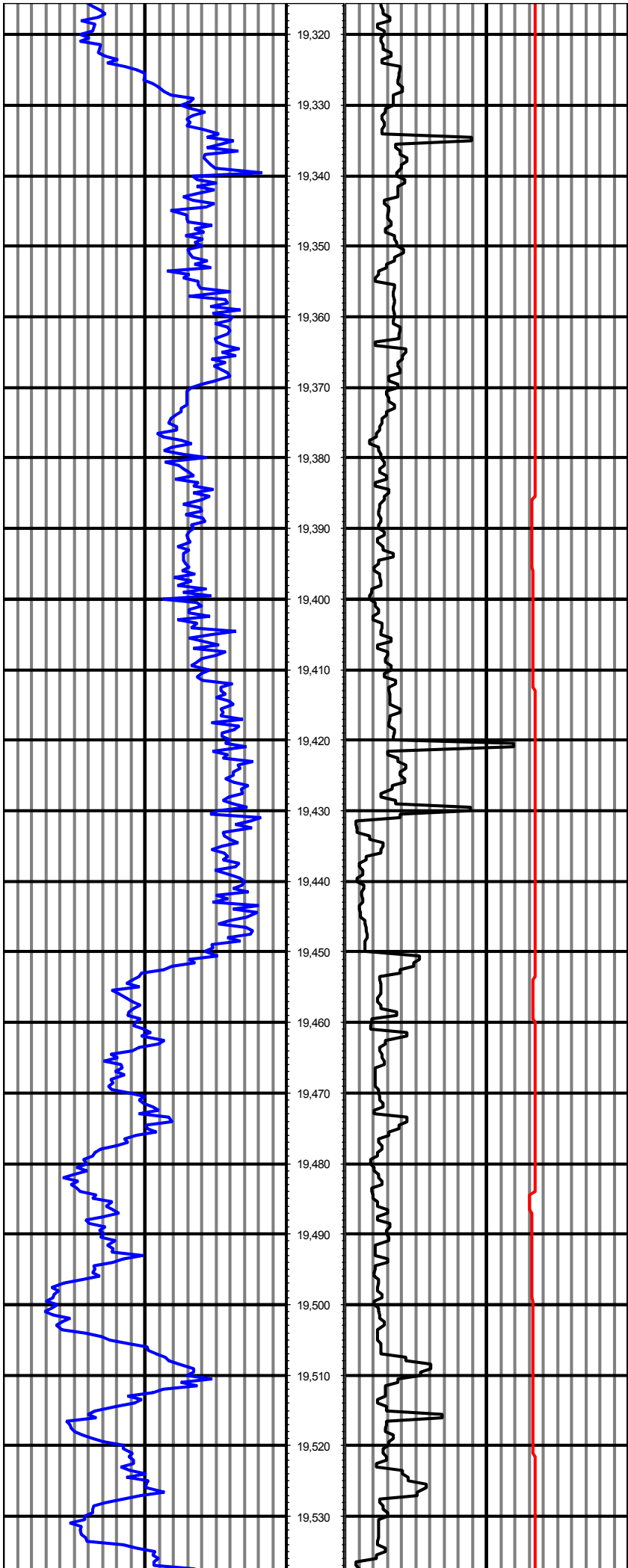
MD: 18786.00 INC: 90.43 AZ: 180.55 TVD: 11693.58 VS: 7450.46 DLS: 1.98





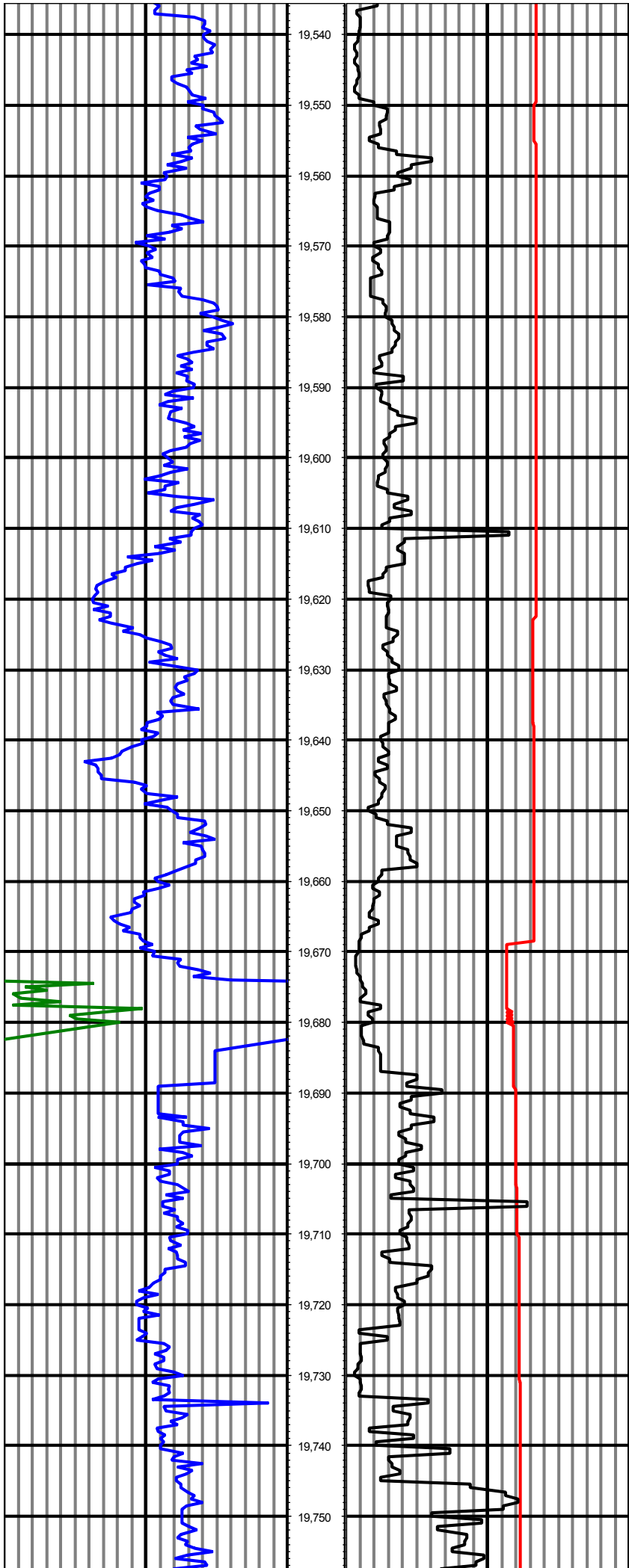
MD: 19167.00 INC: 92.86 AZ: 180.08 TVD: 11680.15 VS: 7831.13 DLS: 0.54

MD: 19261.00 INC: 93.16 AZ: 180.19 TVD: 11675.21 VS: 7925.00 DLS: 0.34



MD: 19356.00 INC: 92.29 AZ: 179.67 TVD: 11670.69 VS: 8019.89 DLS: 1.07

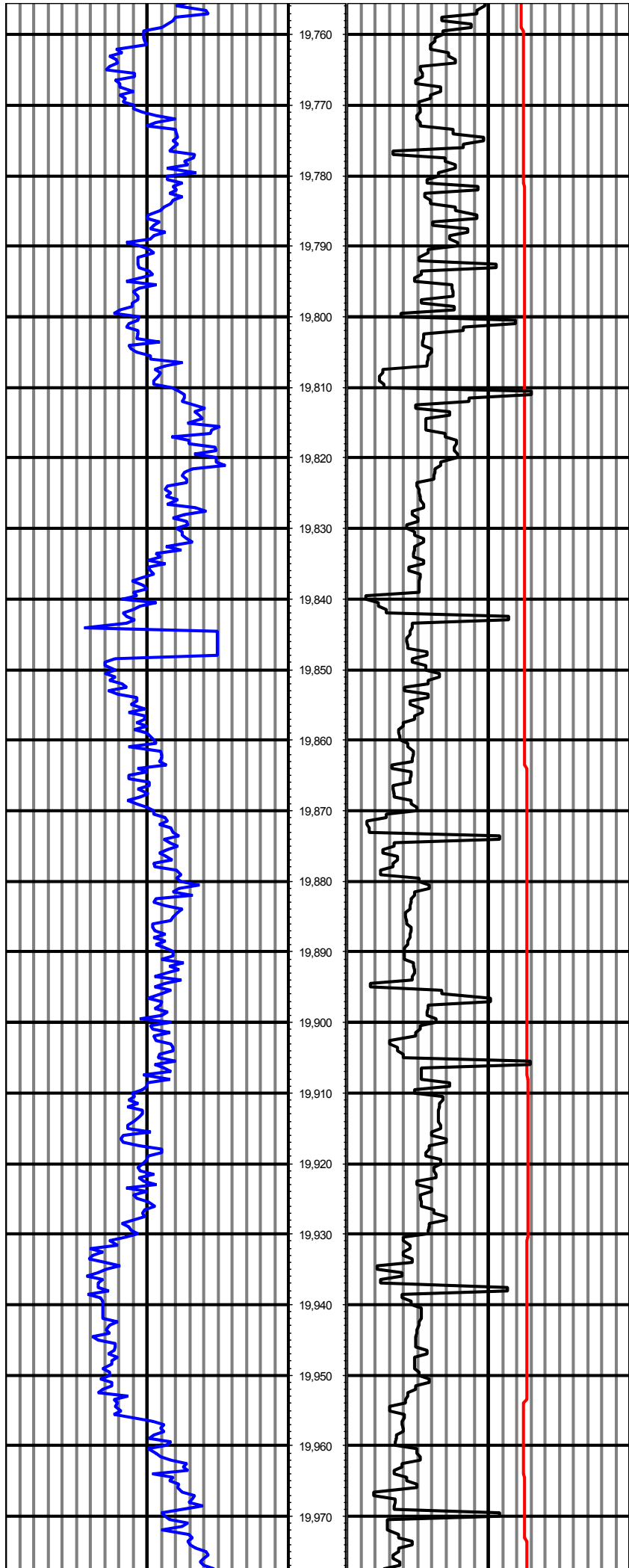
MD: 19451.00 INC: 91.74 AZ: 180.22 TVD: 11667.35 VS: 8114.83 DLS: 0.82



MD: 19547.00 INC: 91.92 AZ: 180.12 TVD: 11664.29 VS: 8210.78 DLS: 0.21

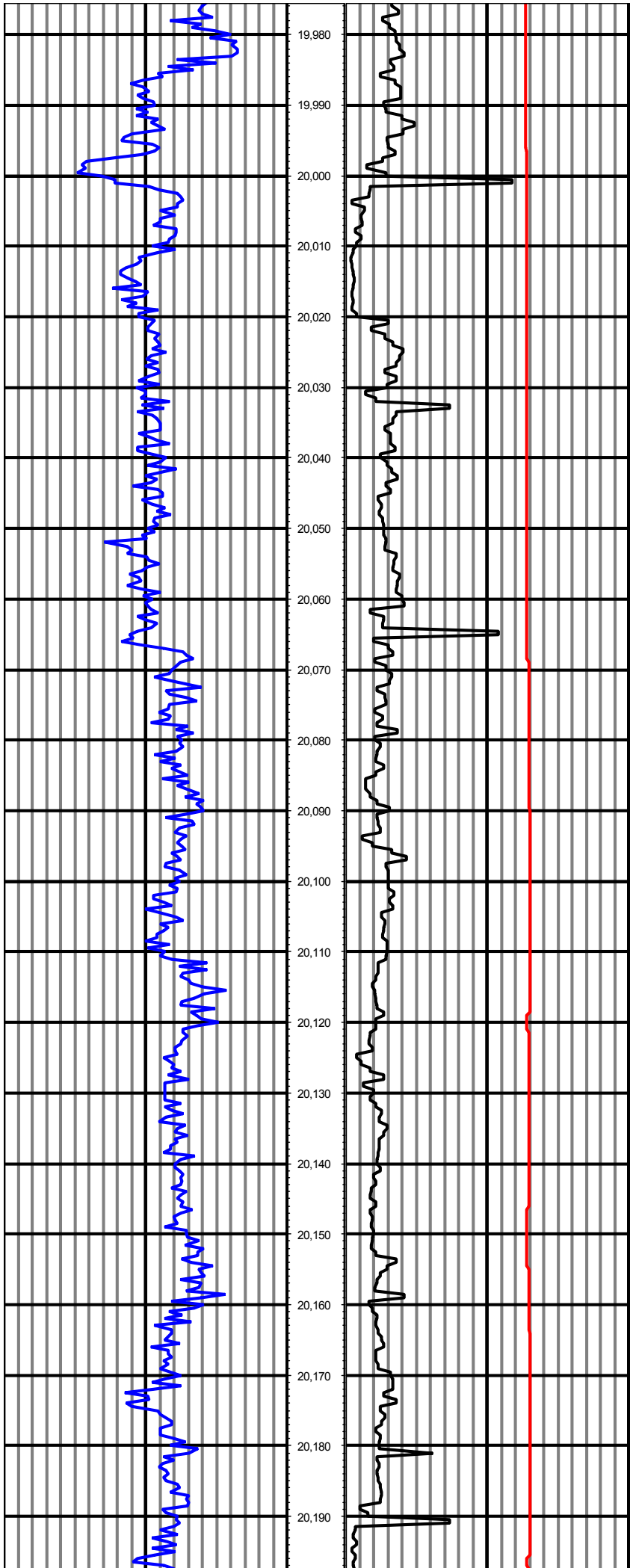
MD: 19642.00 INC: 93.06 AZ: 179.93 TVD: 11660.16 VS: 8305.69 DLS: 1.22

MD: 19735.00 INC: 89.43 AZ: 179.45 TVD: 11658.14 VS: 8398.65 DLS: 3.94



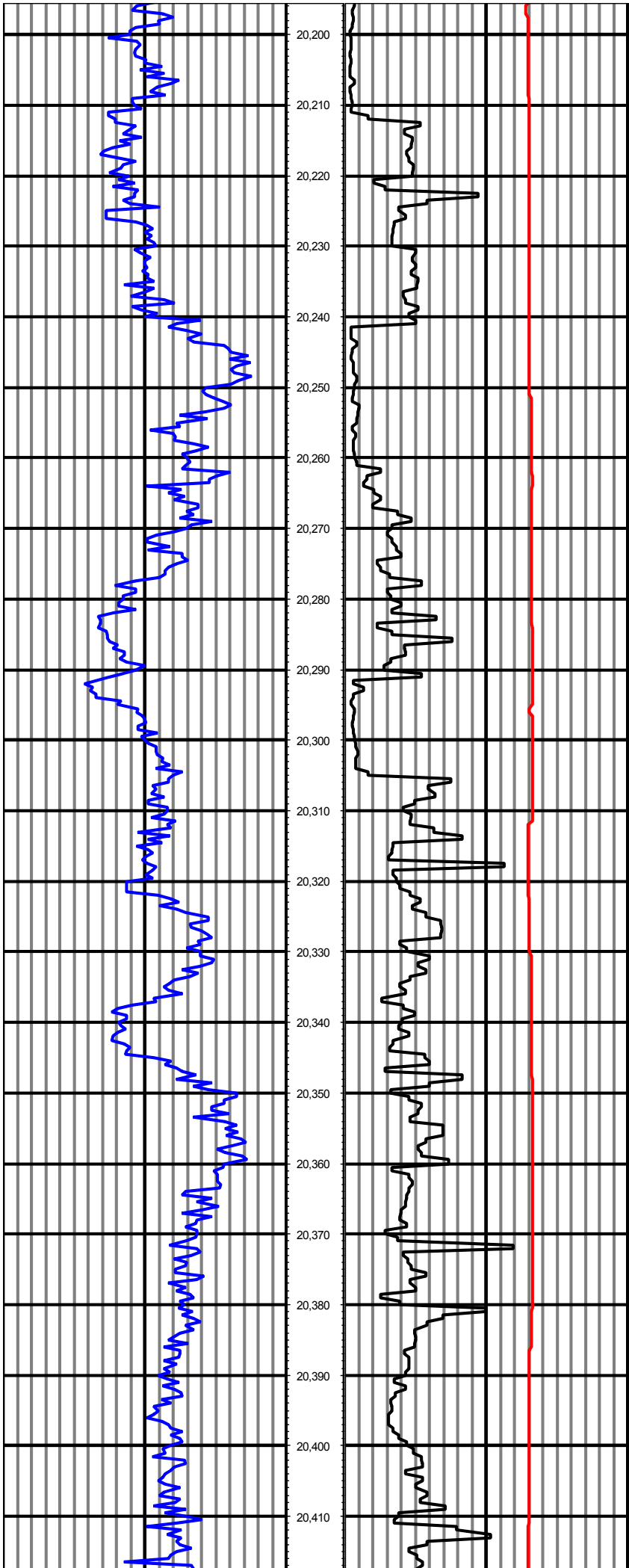
MD: 19830.00 INC: 89.51 AZ: 179.12 TVD: 11659.02 VS: 8493.64 DLS: 0.36

MD: 19925.00 INC: 89.06 AZ: 179.12 TVD: 11660.20 VS: 8588.62 DLS: 0.47



MD: 20021.00 INC: 89.87 AZ: 179.48 TVD: 11661.10 VS: 8684.61 DLS: 0.92

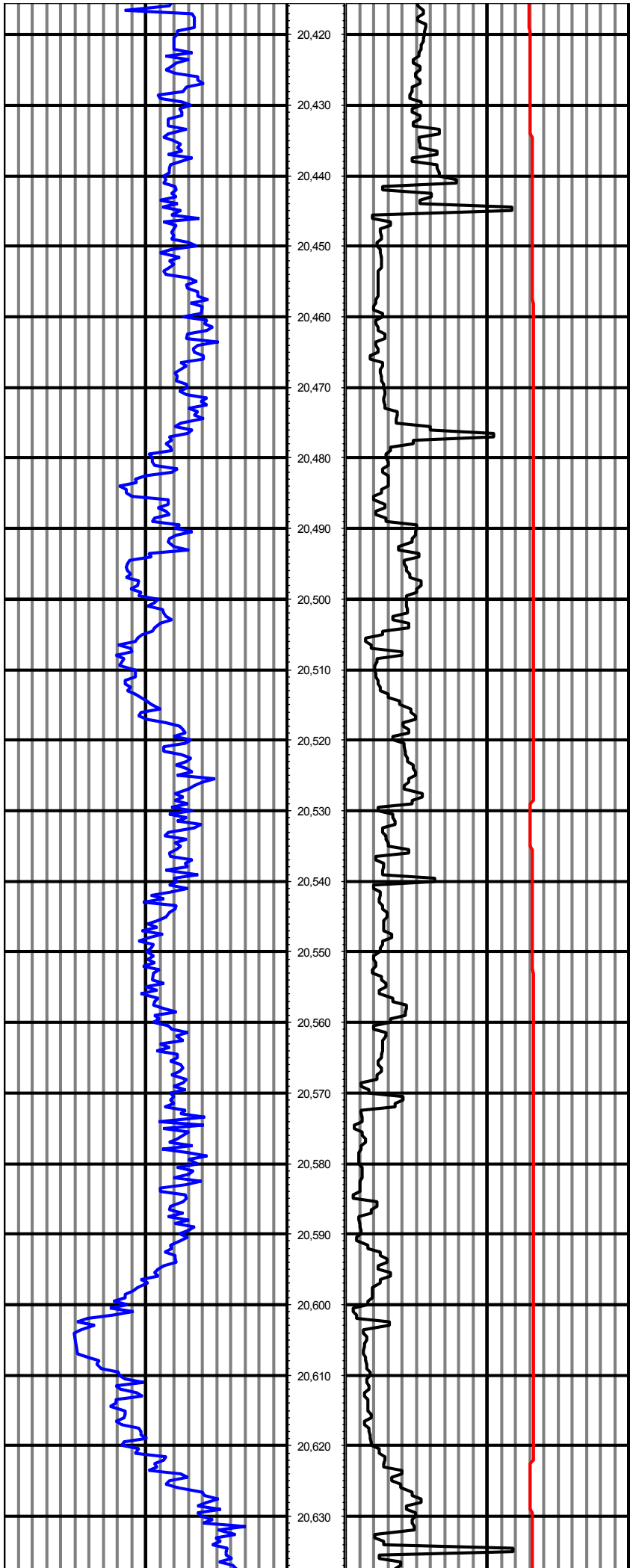
MD: 20115.00 INC: 89.17 AZ: 179.41 TVD: 11661.89 VS: 8778.60 DLS: 0.75



MD: 20210.00 INC: 89.62 AZ: 179.07 TVD: 11662.89 VS: 8873.59 DLS: 0.59

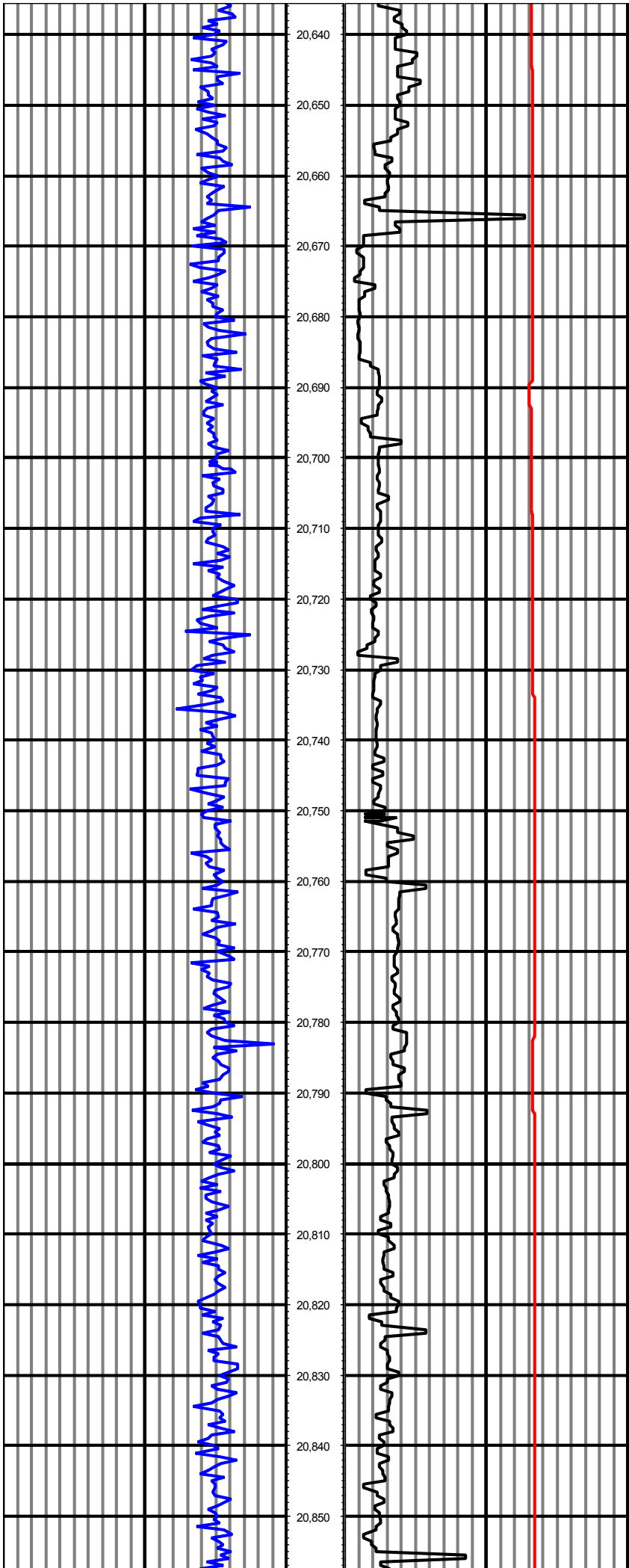
MD: 20305.00 INC: 93.87 AZ: 179.03 TVD: 11660.00 VS: 8968.51 DLS: 4.47

MD: 20401.00 INC: 94.19 AZ: 179.14 TVD: 11653.25 VS: 9064.27 DLS: 0.35



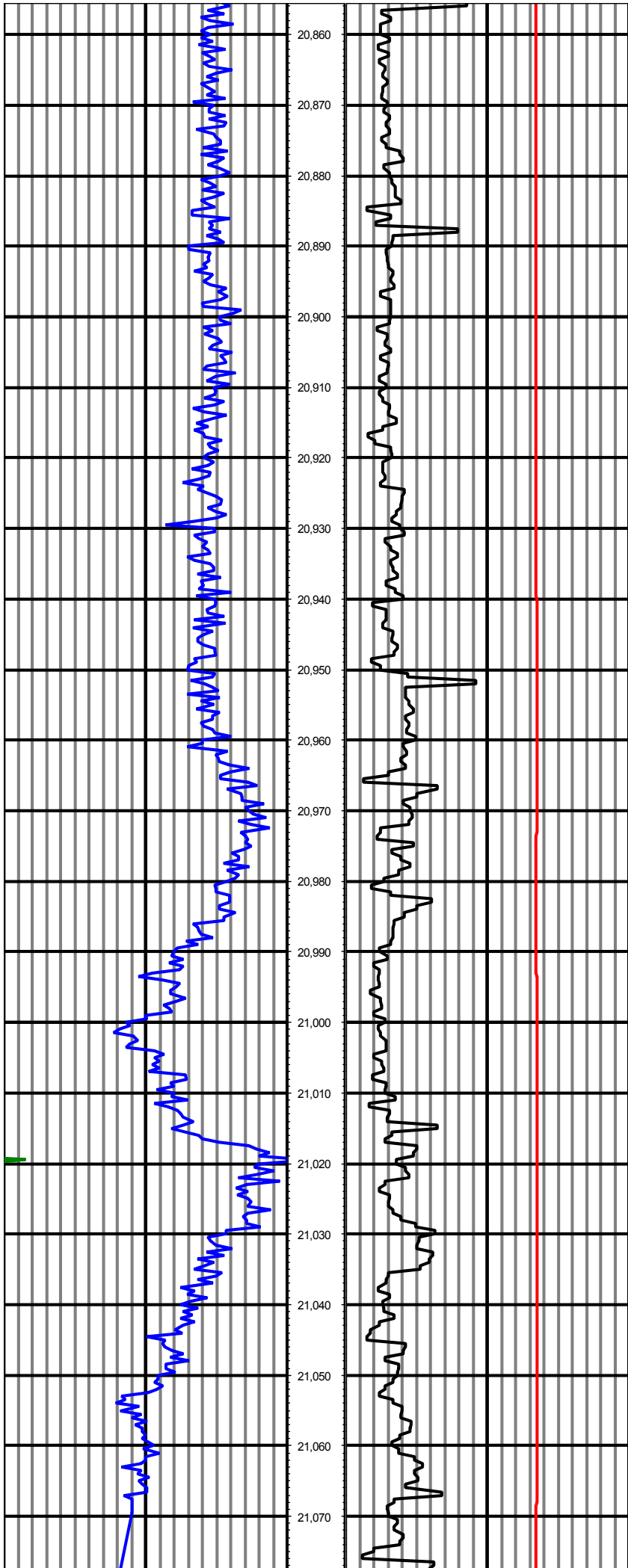
MD: 20495.00 INC: 94.36 AZ: 179.07 TVD: 11646.25 VS: 9157.99 DLS: 0.20

MD: 20590.00 INC: 94.00 AZ: 180.13 TVD: 11639.32 VS: 9252.74 DLS: 1.18



MD: 20685.00 INC: 93.25 AZ: 180.60 TVD: 11633.31 VS: 9347.55 DLS: 0.93

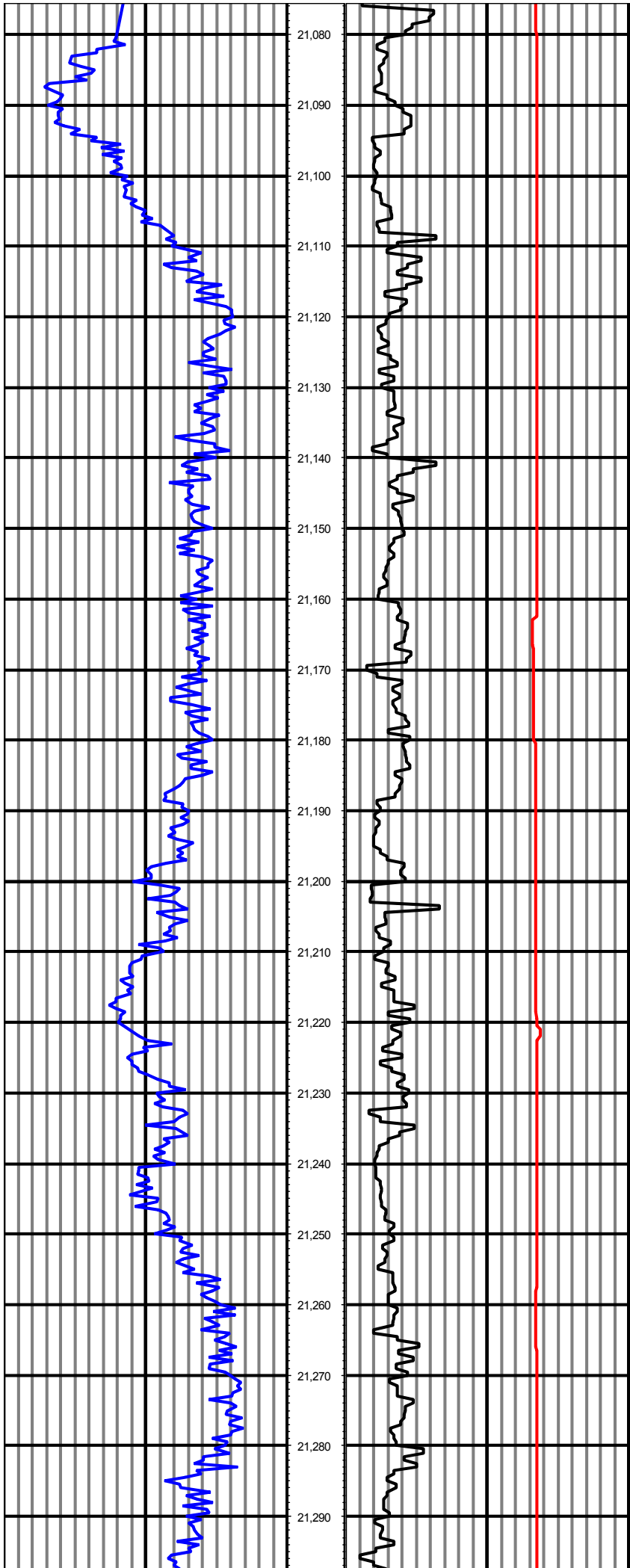
MD: 20780.00 INC: 92.31 AZ: 180.44 TVD: 11628.71 VS: 9442.43 DLS: 1.00



MD: 20875.00 INC: 92.05 AZ: 180.59 TVD: 11625.09 VS: 9537.35 DLS: 0.32

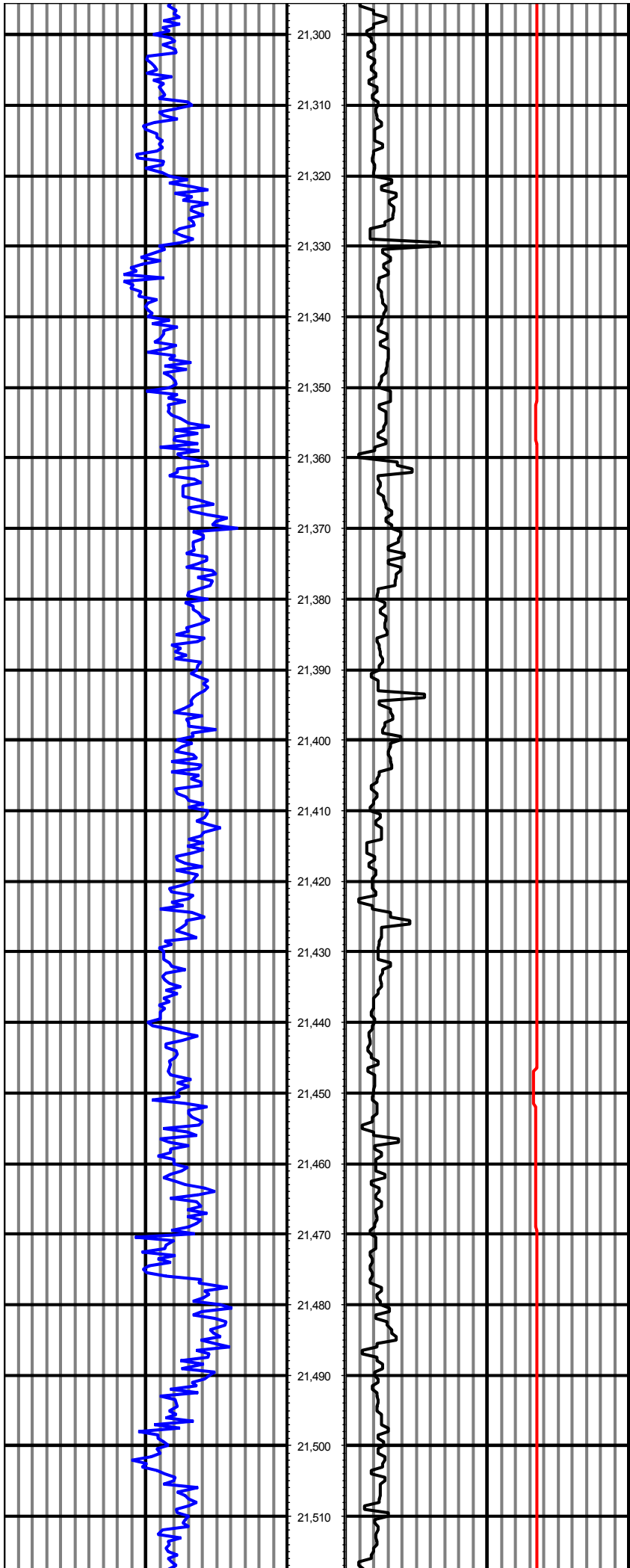
MD: 20970.00 INC: 91.69 AZ: 180.33 TVD: 11621.99 VS: 9632.30 DLS: 0.47

MD: 21065.00 INC: 91.24 AZ: 180.28 TVD: 11619.56 VS: 9727.27 DLS: 0.48



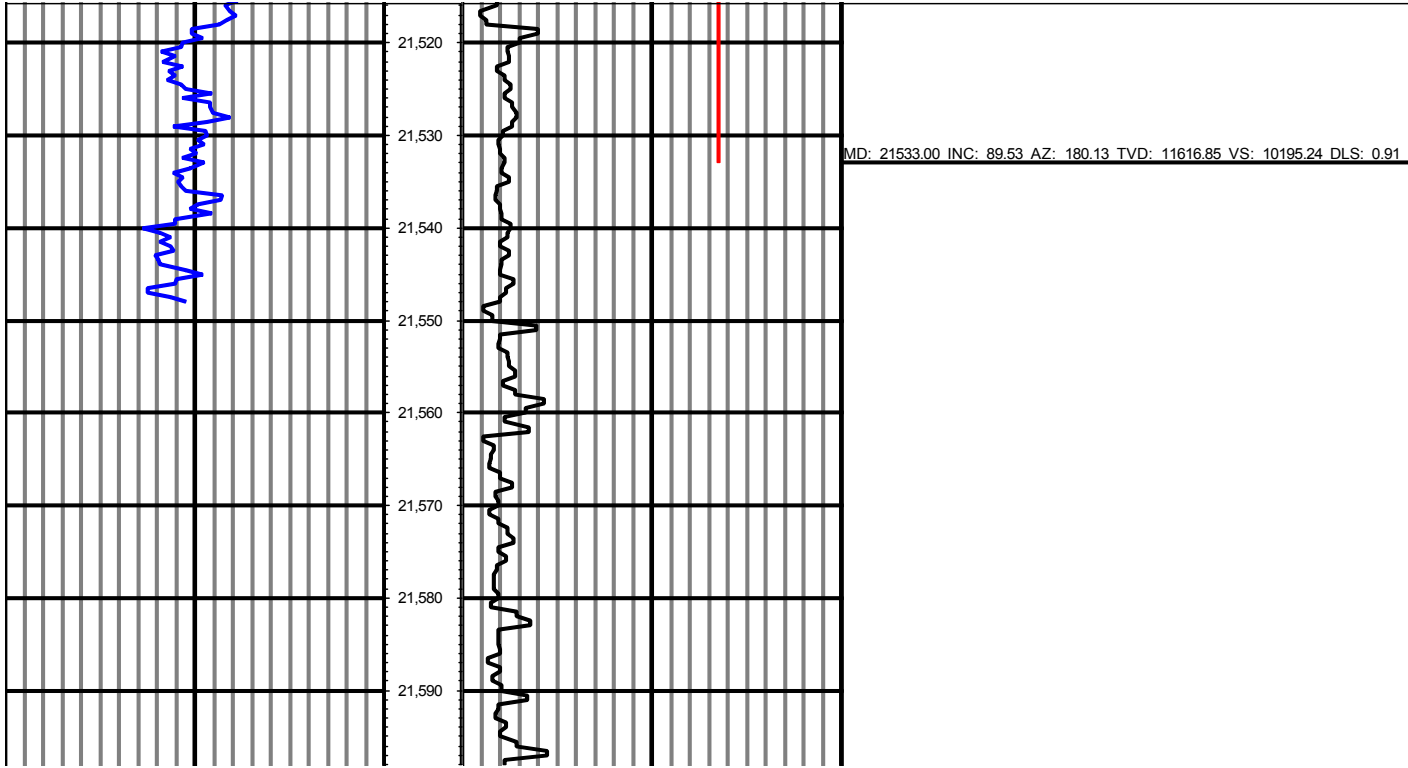
MD: 21159.00 INC: 90.80 AZ: 180.43 TVD: 11617.89 VS: 9821.25 DLS: 0.49

MD: 21254.00 INC: 90.31 AZ: 180.24 TVD: 11616.97 VS: 9916.24 DLS: 0.55



MD: 21350.00 INC: 89.81 AZ: 179.90 TVD: 11616.87 VS: 10012.24 DLS: 0.63

MD: 21443.00 INC: 90.34 AZ: 180.25 TVD: 11616.75 VS: 10105.24 DLS: 0.68



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other				5. Lease Serial No. NMNM127447	
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____				6. If Indian, Allottee or Tribe Name	
2. Name of Operator AMEREDEV OPERATING, LLC				Contact: CHRISTIE HANNA E-Mail: channa@ameredev.com	
3. Address 2901 VIA FORTUNA SUITE 600 AUSTIN, TX 78746				3a. Phone No. (include area code) Ph: 737-300-4700	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 5 T25S R36E Mer NMP At surface NWNW 233FNL 230FWL 32.166040 N Lat, 103.294758 W Lon Sec 5 T25S R36E Mer NMP At top prod interval reported below NWNW 610FNL 231FWL 32.165014 N Lat, 103.294760 W Lon Sec 8 T25S R36E Mer NMP At total depth SWSW 58FSL 206FWL 32.137849 N Lat, 103.295028 W Lon				8. Lease Name and Well No. PINE STRAW 25 36 05 FED COM 101H	
14. Date Spudded 10/30/2019				15. Date T.D. Reached 12/31/2019	
16. Date Completed ☐ D & A ☒ Ready to Prod. 01/30/2020				9. API Well No. 30-025-46288	
18. Total Depth: MD 21598 TVD 11617				19. Plug Back T.D.: MD 21598 TVD 11617	
20. Depth Bridge Plug Set: MD TVD				10. Field and Pool, or Exploratory JAL; WOLFCAMP WEST	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) GAMMA				11. Sec., T., R., M., or Block and Survey or Area Sec 5 T25S R36E Mer NMP	
22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☐ No ☒ Yes (Submit analysis)				12. County or Parish LEA	
23. Casing and Liner Record (Report all strings set in well)				13. State NM	
17. Elevations (DF, KB, RT, GL)* 3241 GL					

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
6.750	5.500 P110	23.0		21598	21598	1260		0	
17.500	13.375 J55	68.0	0	1513	1513	1600		0	
12.250	10.750 L80	45.5	0	5277	5277	450		0	
9.875	7.625 L80	29.7	0	10663	10663	1200		0	

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

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	11698	21533	11698 TO 21533	0.490	5132	OPEN
B)						
C)						
D)						

Depth Interval	Amount and Type of Material
11698 TO 21533	30,993,664 LBS PROPPANT, 757,609 BBLS FLUIDS

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
02/06/2020	04/14/2020	24	→	1952.0	2514.0	1915.0	41.8		FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
128	210 SI	200.0	→	1952	2514	1915		POW	

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.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #513578 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

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(*Sold, used for fuel, vented, etc.*)
SOLD

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
SAND/SILTS/CLAY	0	940	SILTY LIMESTONE, OIL/NAT. GAS SILTY LIMESTONE, OIL/NAT. GAS	ANHYDRITE	1430
ANHYDRITE/DOLOMITE	1430	1902		SALT	1902
ANHYDRITE/SALT	1902	5198		LAMAR	5198
LIMESTONE/DOLOMITE	5198	5432		BELL CANYON	5432
SANDS/SILTS/LIMESTONE	5432	11307		BRUSHY CANYON	6926
LIMESTONE/MINOR SANDS & SILTS	11307	11582		BONE SPRING	11307
WOLFCAMP	11582			WOLFCAMP	11582

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:			
1. Electrical/Mechanical Logs (1 full set req'd.)	2. Geologic Report	3. DST Report	4. Directional Survey
5. Sundry Notice for plugging and cement verification	6. Core Analysis	7 Other:	

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):
Electronic Submission #513578 Verified by the BLM Well Information System.
For AMEREDEV OPERATING, LLC, sent to the Hobbs

Name (<i>please print</i>) <u>SHANE MCNEELY</u>	Title <u>OPERATIONS ENGINEER</u>
Signature _____ (Electronic Submission)	Date <u>04/30/2020</u>

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.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.5. Lease Serial No.
NMNM127447

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
PINE STRAW FED COM 25 36 05 101H9. API Well No.
30-025-46288-00-X110. Field and Pool or Exploratory Area
WOLFCAMP11. County or Parish, State
LEA COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
AMEREDEV OPERATING LLC
Contact: CHRISTIE HANNA
E-Mail: CHANNA@AMEREDEV.COM3a. Address
5707 SOUTHWEST PARKWAY BLDG 1 STE 275
AUSTIN, TX 78735
3b. Phone No. (include area code)
Ph: 73730047234. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 5 T25S R36E 233FNL 230FWL
32.166039 N Lat, 103.294746 W Lon**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Production Start-up
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Spud Date: 10/30/2019

Release Rig: 12/31/2019

Intent to Flow Test Pine Straw 25 36 05 Fed Com 101H (Start Date: 1/30/2020 - End Date: 4/30/2020)

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #501345 verified by the BLM Well Information System
For AMEREDEV OPERATING LLC, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 01/31/2020 (20PP1157SE)

Name (Printed/Typed) SHANE MCNEELY

Title ENGINEER

Signature (Electronic Submission)

Date 01/29/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

ACCEPTEDJONATHON SHEPARD
Title PETROELUM ENGINEER

Date 02/06/2020

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Hobbs

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 on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Revisions to Operator-Submitted EC Data for Sundry Notice #501345

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	STARTUP NOI	STARTUP SR
Lease:	NMNM127447	NMNM127447
Agreement:		
Operator:	AMEREDEV OPERATING, LLC 5707 SOUTHWEST PARKWAY BUILDING 1, SUITE 275 AUSTIN, TX 78735 Ph: 737-300-4700	AMEREDEV OPERATING LLC 5707 SOUTHWEST PARKWAY BLDG 1 STE 275 AUSTIN, TX 78735 Ph: 737-300-4700
Admin Contact:	CHRISTIE HANNA REGULATORY COORDINATOR E-Mail: channa@ameredev.com Ph: 737-300-4700 Fx: 737-300-4701	CHRISTIE HANNA SENIOR ENGINEERING TECHNICIAN E-Mail: CHANNA@AMEREDEV.COM Ph: 7373004723
Tech Contact:	SHANE MCNEELY OPERATIONS ENGINEER E-Mail: smcneely@ameredev.com Ph: 737-300-4700 Fx: 737-300-4701	SHANE MCNEELY ENGINEER E-Mail: smcneely@ameredev.com Ph: 737-300-4729
Location:		
State:	NM	NM
County:	LEA	LEA
Field/Pool:	JAL; WOLFCAMP WEST	WOLFCAMP
Well/Facility:	PINE STRAW 25 36 05 FED COM 101H Sec 5 T25S R36E Mer NMP 233FNL 230FWL 32.166049 N Lat, 103.294758 W Lon	PINE STRAW FED COM 25 36 05 101H Sec 5 T25S R36E 233FNL 230FWL 32.166039 N Lat, 103.294746 W Lon