



This Form must be Typed
Form must be Signed
All blanks must be Filled

WELL PLUGGING APPLICATION

Form KSONA-1, Certification of Compliance with the Kansas Surface Owner Notification Act,
MUST be submitted with this form.

OPERATOR: License #: _____
Name: _____
Address 1: _____
Address 2: _____
City: _____ State: _____ Zip: _____ + _____
Contact Person: _____
Phone: (_____) _____

API No. 15 - _____
If pre 1967, supply original completion date: _____
Spot Description: _____
____ - ____ - ____ Sec. ____ Twp. ____ S. R. ____ East West
____ Feet from North / South Line of Section
____ Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: _____
Lease Name: _____ Well #: _____

Check One: Oil Well Gas Well OG D&A Cathodic Water Supply Well Other: _____
 SWD Permit #: _____ ENHR Permit #: _____ Gas Storage Permit #: _____

Conductor Casing Size: _____ Set at: _____ Cemented with: _____ Sacks
Surface Casing Size: _____ Set at: _____ Cemented with: _____ Sacks
Production Casing Size: _____ Set at: _____ Cemented with: _____ Sacks

List (ALL) Perforations and Bridge Plug Sets:

Elevation: _____ (G.L. / K.B.) T.D.: _____ PBTD: _____ Anhydrite Depth: _____
(Stone Corral Formation)

Condition of Well: Good Poor Junk in Hole Casing Leak at: _____
(Interval)

Proposed Method of Plugging (attach a separate page if additional space is needed):

Is Well Log attached to this application? Yes No Is ACO-1 filed? Yes No

If ACO-1 not filed, explain why:

Plugging of this Well will be done in accordance with K.S.A. 55-101 et. seq. and the Rules and Regulations of the State Corporation Commission

Company Representative authorized to supervise plugging operations: _____
Address: _____ City: _____ State: _____ Zip: _____ + _____
Phone: (_____) _____
Plugging Contractor License #: _____ Name: _____
Address 1: _____ Address 2: _____
City: _____ State: _____ Zip: _____ + _____
Phone: (_____) _____

Proposed Date of Plugging (if known): _____

Payment of the Plugging Fee (K.A.R. 82-3-118) will be guaranteed by Operator or Agent

Submitted Electronically



CERTIFICATION OF COMPLIANCE WITH THE KANSAS SURFACE OWNER NOTIFICATION ACT

This form must be submitted with all Forms C-1 (Notice of Intent to Drill); CB-1 (Cathodic Protection Borehole Intent); T-1 (Request for Change of Operator Transfer of Injection or Surface Pit Permit); and CP-1 (Well Plugging Application). Any such form submitted without an accompanying Form KSONA-1 will be returned.

Select the corresponding form being filed: C-1 (Intent) CB-1 (Cathodic Protection Borehole Intent) T-1 (Transfer) CP-1 (Plugging Application)

OPERATOR: License # _____
Name: _____
Address 1: _____
Address 2: _____
City: _____ State: _____ Zip: _____ + _____
Contact Person: _____
Phone: (_____) _____ Fax: (_____) _____
Email Address: _____

Well Location:
____ - ____ - ____ - ____ Sec. ____ Twp. ____ S. R. ____ East West
County: _____
Lease Name: _____ Well #: _____

If filing a Form T-1 for multiple wells on a lease, enter the legal description of the lease below:

Surface Owner Information:

Name: _____
Address 1: _____
Address 2: _____
City: _____ State: _____ Zip: _____ + _____

When filing a Form T-1 involving multiple surface owners, attach an additional sheet listing all of the information to the left for each surface owner. Surface owner information can be found in the records of the register of deeds for the county, and in the real estate property tax records of the county treasurer.

If this form is being submitted with a Form C-1 (Intent) or CB-1 (Cathodic Protection Borehole Intent), you must supply the surface owners and the KCC with a plat showing the predicted locations of lease roads, tank batteries, pipelines, and electrical lines. The locations shown on the plat are preliminary non-binding estimates. The locations may be entered on the Form C-1 plat, Form CB-1 plat, or a separate plat may be submitted.

Select one of the following:

- I certify that, pursuant to the Kansas Surface Owner Notice Act (House Bill 2032), I have provided the following to the surface owner(s) of the land upon which the subject well is or will be located: 1) a copy of the Form C-1, Form CB-1, Form T-1, or Form CP-1 that I am filing in connection with this form; 2) if the form being filed is a Form C-1 or Form CB-1, the plat(s) required by this form; and 3) my operator name, address, phone number, fax, and email address.
- I have not provided this information to the surface owner(s). I acknowledge that, because I have not provided this information, the KCC will be required to send this information to the surface owner(s). To mitigate the additional cost of the KCC performing this task, I acknowledge that I must provide the name and address of the surface owner by filling out the top section of this form and that I am being charged a \$30.00 handling fee, payable to the KCC, which is enclosed with this form.

If choosing the second option, submit payment of the \$30.00 handling fee with this form. If the fee is not received with this form, the KSONA-1 form and the associated Form C-1, Form CB-1, Form T-1, or Form CP-1 will be returned.

I Submitted Electronically

No. 1-4H

Sec 4-17S-4W
M'Pherson County, KS
SW 1/4 SW 1/4

287'

278'
7 Jts 9 5/8" 32.8# STC 081-24105

Spud 8123113

← 8 3/4"

← TOC 1500'

94 Jts 7" 26# S-55

1265' bevelbot collars

Centralizers 3960-2927
every other joint.

← HGD 3050'

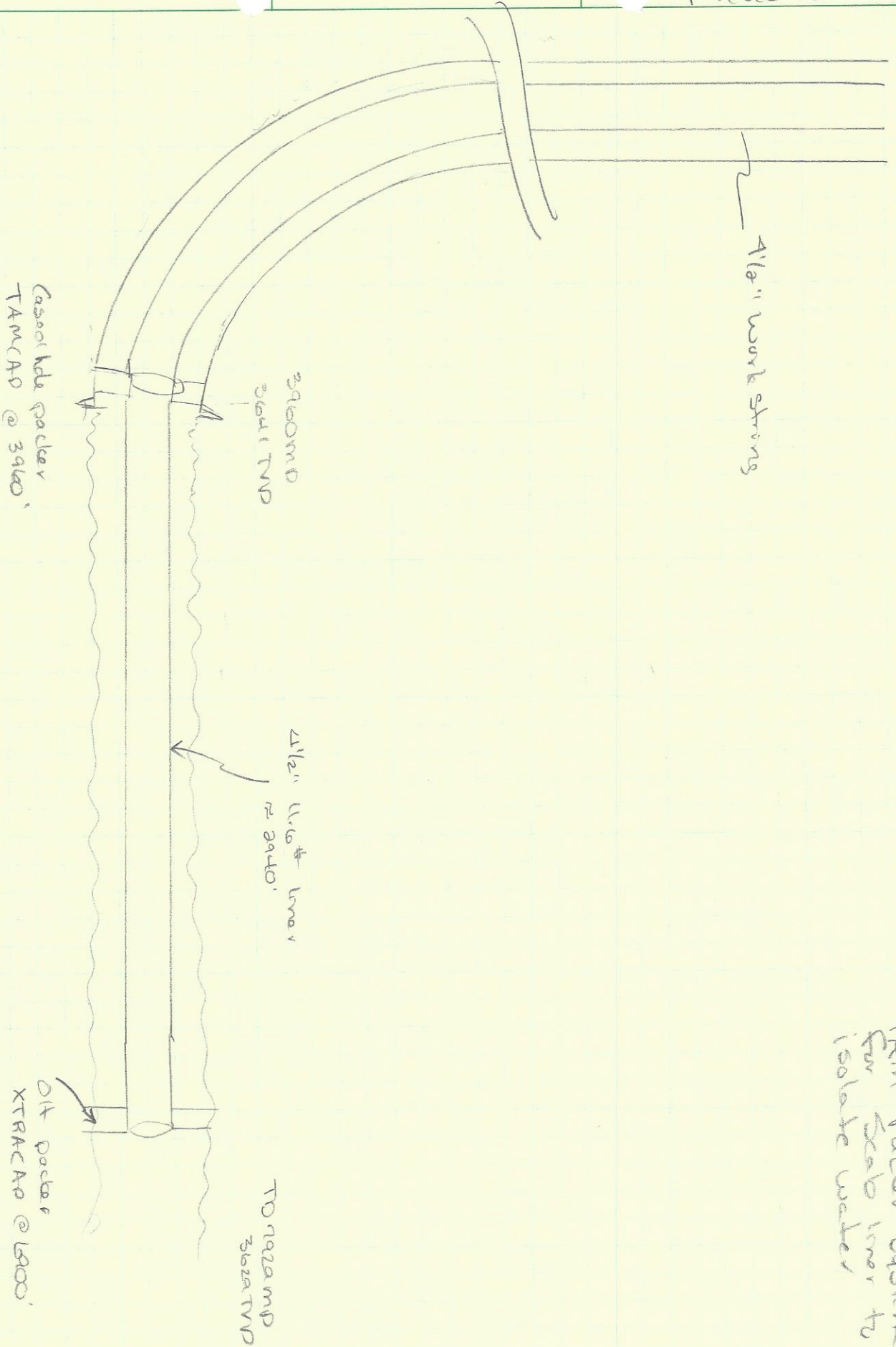
← TOC (load) 3150'

3960' MD
3641' TD

6 1/8" hole to TD 7929 MD
TVD 3429'



Newstrom 1-4H



TAM Packer System
For Seal inner to
isolate water

Final

Well Name: Neustrom 1-4H
Calmena Job# 13154

GEODETIC SYSTEM US State Plane 1927 (Exact solution)
DATUM NAD 1927 (NADCON CONUS)
ELLIPSOID Clarke 1866
ZONE Kansas South 1502
SYSTEM DATUM Mean Sea Level

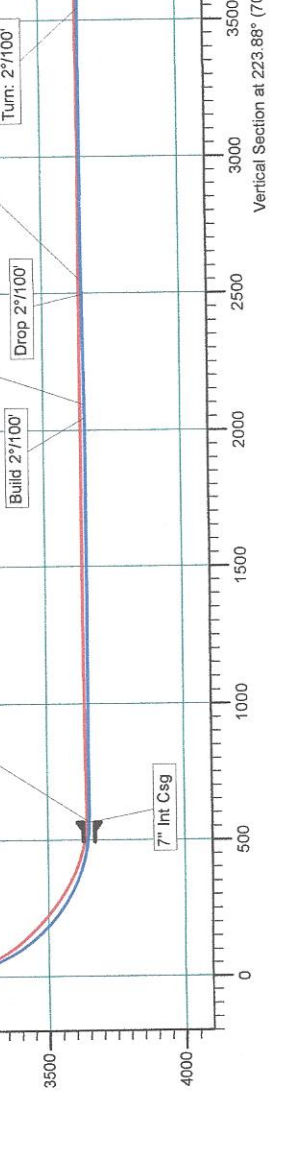
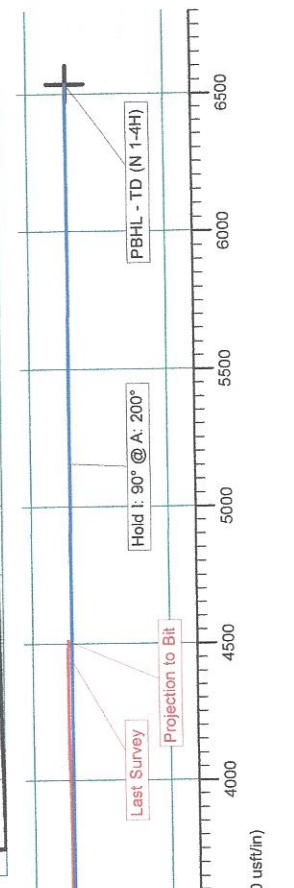
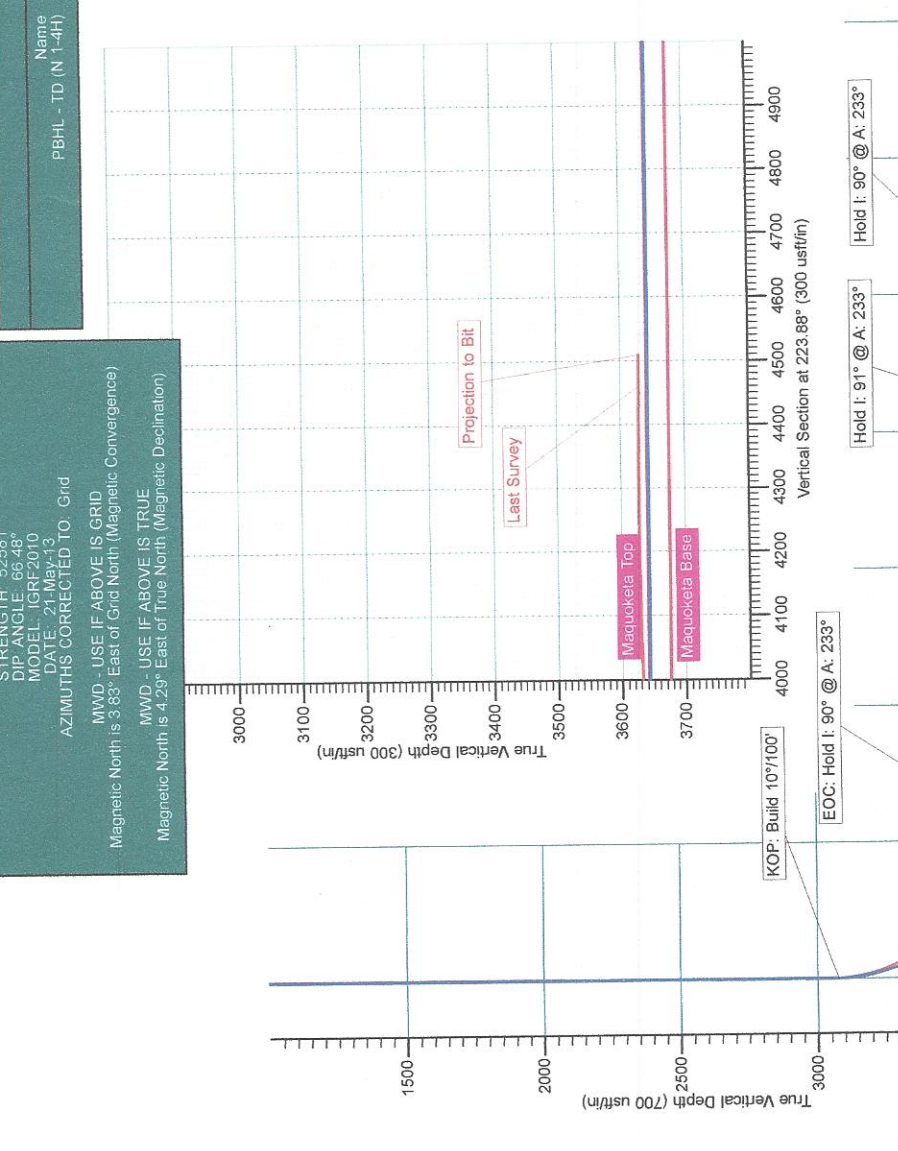
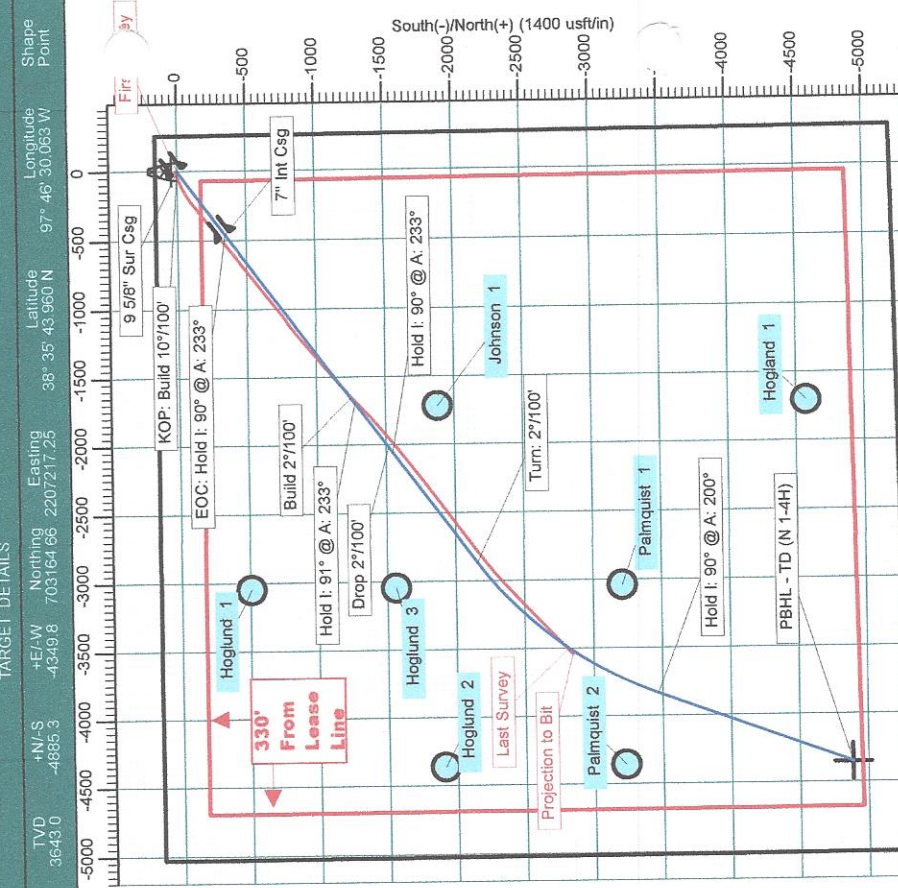
PLAN SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	Vsect	Target	Annotation
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		KOP: Build 10°/100'
2	3078.0	0.0	0.0	3078.0	0.0	0.0	0.0	0.0	0.0		EOC: Hold 1° 90° @ A: 233°
3	3978.0	90.0	233.0	3651.0	344.8	-457.6	10.0	233.0	565.7		Build 2°/100'
4	5478.0	90.0	233.0	3651.0	1247.5	-1695.5	2.0	0.0	2046.8		Hold 1° 91° @ A: 233°
5	5528.0	91.0	233.0	3650.0	1277.6	-1695.5	2.0	0.0	2096.1		Drop 2°/100'
6	5933.0	91.0	233.0	3643.5	1521.3	-2018.9	2.0	0.0	2495.9		Hold 1° 90° @ A: 233°
7	5983.0	90.0	233.0	3643.0	1551.4	-2058.8	2.0	0.0	3543.0		Turn: 2°/100'
8	6993.5	90.0	235.0	3643.0	2159.5	-2865.8	2.0	0.0	5156.8		Hold 1° 90° @ A: 200°
9	8643.5	90.0	200.0	3643.0	5487.7	-3833.8	2.0	0.0	6536.4		PBHL - TD (N 1-4H)
10	10192.2	90.0	200.0	3643.0	4885.3	-4349.8	0.0	0.0			

TARGET DETAILS

+	N/S	E/W	Northing	Easting	Latitude	Longitude	Shape Point
-4500	-4885.3	-4349.8	703164.68	2207217.25	38° 35' 43.960 N	97° 46' 30.063 W	
PBHL - TD (N 1-4H)							

SURFACE HOLE COORDINATES
LATITUDE: 38° 36' 31.911 N
LONGITUDE: 97° 45' 34.790 W
NORTHING (N): 708050.00
EASTING (X): 2211567.00
GROUND LEVEL: 1503.0
WELL @ 1523.0usft (Original Well Elev)
RIG FLOOR(KB):
MAGNETIC FIELD:
STRENGTH: 52581
DIP ANGLE: 66.48°
MODEL: IGRF2010
DATE: 21-MAY-13
AZIMUTHS CORRECTED TO: Grid
MWD - USE IF ABOVE IS GRID
Magnetic North is 3.83° East of Grid North (Magnetic Convergence)
MWD - USE IF ABOVE IS TRUE
Magnetic North is 4.29° East of True North (Magnetic Declination)





Company:	Petroflow Energy	Local Co-ordinate Reference:	Site Neustrom 1-4H
Project:	McPherson Co, Kansas (NAD-27)	TVD Reference:	WELL @ 1523.0usft (Original Well Elev)
Site:	Neustrom 1-4H	MD Reference:	WELL @ 1523.0usft (Original Well Elev)
Well:	Neustrom 1-4H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	EDM 5000.1 Single User Db

Project	McPherson Co, Kansas (NAD-27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Kansas South 1502		

Site	Neustrom 1-4H				
Site Position:		Northing:	708,050.00 usft	Latitude:	38° 36' 31.911 N
From:	Map	Easting:	2,211,567.00 usft	Longitude:	97° 45' 34.790 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.45 °

Well	Neustrom 1-4H					
Well Position	+N/-S	0.0 usft	Northing:	708,050.00 usft	Latitude:	38° 36' 31.911 N
	+E/-W	0.0 usft	Easting:	2,211,567.00 usft	Longitude:	97° 45' 34.790 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	1,523.0 usft	Ground Level:	1,503.0 usft

Wellbore	Lateral #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/21/2013	4.29	66.48	52,581

Design	Lateral #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	223.88	

Survey Program	Date	9/7/2013			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
360.0	7,930.0	Survey #1 (Lateral #1)	MWD	MWD - Calmena	

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	
360.0	0.20	166.50	360.0	-0.6	0.1	0.3	0.06	0.06	0.00	
First Survey										
868.0	0.10	263.40	868.0	-1.5	-0.1	1.2	0.05	-0.02	19.07	
1,398.0	0.00	302.00	1,398.0	-1.6	-0.5	1.5	0.02	-0.02	0.00	
1,812.0	0.20	342.10	1,812.0	-0.9	-0.8	1.2	0.05	0.05	0.00	
2,318.0	0.40	313.50	2,318.0	1.2	-2.3	0.8	0.05	0.04	-5.65	
2,876.0	1.00	333.60	2,875.9	6.9	-5.9	-0.9	0.11	0.11	3.60	
2,982.0	0.80	342.70	2,981.9	8.4	-6.5	-1.5	0.23	-0.19	8.58	
3,014.0	1.00	340.00	3,013.9	8.9	-6.7	-1.8	0.64	0.63	-8.44	
3,046.0	1.50	300.00	3,045.9	9.4	-7.2	-1.8	3.05	1.56	-125.00	



Company:	Petroflow Energy	Local Co-ordinate Reference:	Site Neustrom 1-4H
Project:	McPherson Co, Kansas (NAD-27)	TVD Reference:	WELL @ 1523.0usft (Original Well Elev)
Site:	Neustrom 1-4H	MD Reference:	WELL @ 1523.0usft (Original Well Elev)
Well:	Neustrom 1-4H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	EDM 5000.1 Single User Db

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)	
3,078.0	3.50	264.80	3,077.9	9.5	-8.5	-0.9	7.60	6.25	-110.00	
3,110.0	6.20	254.30	3,109.8	8.9	-11.1	1.3	8.85	8.44	-32.81	
3,142.0	9.60	251.70	3,141.5	7.6	-15.3	5.1	10.68	10.63	-8.13	
3,174.0	14.10	251.80	3,172.8	5.6	-21.6	10.9	14.06	14.06	0.31	
3,205.0	18.50	250.00	3,202.5	2.7	-29.8	18.7	14.29	14.19	-5.81	
3,236.0	21.60	248.60	3,231.6	-1.1	-39.7	28.3	10.12	10.00	-4.52	
3,268.0	24.50	249.40	3,261.1	-5.6	-51.4	39.6	9.12	9.06	2.50	
3,300.0	28.40	248.70	3,289.7	-10.7	-64.7	52.5	12.23	12.19	-2.19	
3,331.0	31.20	247.10	3,316.6	-16.5	-79.0	66.6	9.39	9.03	-5.16	
3,362.0	34.30	244.90	3,342.7	-23.3	-94.3	82.1	10.71	10.00	-7.10	
3,393.0	36.60	243.60	3,367.9	-31.1	-110.5	99.0	7.81	7.42	-4.19	
3,425.0	39.70	241.90	3,393.1	-40.2	-128.0	117.7	10.23	9.69	-5.31	
3,457.0	42.80	240.40	3,417.2	-50.4	-146.5	137.9	10.17	9.69	-4.69	
3,489.0	45.00	238.40	3,440.2	-61.7	-165.6	159.2	8.13	6.88	-6.25	
3,520.0	47.40	237.50	3,461.7	-73.5	-184.6	180.9	8.02	7.74	-2.90	
3,552.0	49.40	235.60	3,482.9	-86.7	-204.5	204.3	7.67	6.25	-5.94	
3,584.0	51.30	234.30	3,503.3	-100.9	-224.7	228.5	6.71	5.94	-4.06	
3,616.0	52.80	232.50	3,523.0	-115.9	-245.0	253.3	6.45	4.69	-5.63	
3,648.0	55.50	232.10	3,541.8	-131.8	-265.5	279.0	8.50	8.44	-1.25	
3,679.0	59.20	232.10	3,558.5	-147.8	-286.1	304.8	11.94	11.94	0.00	
3,711.0	61.70	231.00	3,574.3	-165.1	-307.9	332.4	8.37	7.81	-3.44	
3,743.0	64.00	230.90	3,588.9	-183.1	-330.0	360.7	7.19	7.19	-0.31	
3,775.0	67.50	231.30	3,602.0	-201.4	-352.7	389.6	11.00	10.94	1.25	
3,807.0	70.30	231.30	3,613.5	-220.0	-376.0	419.2	8.75	8.75	0.00	
3,839.0	73.90	231.60	3,623.4	-239.0	-399.8	449.4	11.29	11.25	0.94	
3,871.0	77.10	230.60	3,631.4	-258.5	-423.9	480.1	10.45	10.00	-3.13	
3,902.0	81.60	230.80	3,637.1	-277.8	-447.5	510.4	14.53	14.52	0.65	
3,979.0	90.40	231.00	3,642.5	-326.2	-507.0	586.5	11.43	11.43	0.26	
4,011.0	90.50	231.30	3,642.2	-346.2	-531.9	618.3	0.99	0.31	0.94	
4,074.0	91.10	232.10	3,641.3	-385.3	-581.4	680.7	1.59	0.95	1.27	
4,138.0	90.70	232.00	3,640.3	-424.6	-631.8	744.0	0.64	-0.63	-0.16	
4,202.0	90.80	231.70	3,639.5	-464.2	-682.2	807.4	0.49	0.16	-0.47	
4,265.0	89.80	230.50	3,639.2	-503.7	-731.2	869.9	2.48	-1.59	-1.90	
4,329.0	90.50	231.90	3,639.0	-543.8	-781.1	933.4	2.45	1.09	2.19	
4,392.0	90.80	232.10	3,638.3	-582.6	-830.7	995.7	0.57	0.48	0.32	
4,455.0	90.50	230.70	3,637.6	-621.9	-879.9	1,058.2	2.27	-0.48	-2.22	
4,519.0	90.70	231.20	3,636.9	-662.2	-929.6	1,121.7	0.84	0.31	0.78	
4,582.0	90.70	231.80	3,636.1	-701.4	-978.9	1,184.1	0.95	0.00	0.95	
4,645.0	90.80	233.00	3,635.3	-739.9	-1,028.8	1,246.4	1.91	0.16	1.90	
4,708.0	89.70	234.50	3,635.0	-777.1	-1,079.6	1,308.5	2.95	-1.75	2.38	
4,771.0	90.30	233.40	3,635.0	-814.2	-1,130.6	1,370.5	1.99	0.95	-1.75	
4,834.0	89.70	231.90	3,635.0	-852.4	-1,180.7	1,432.8	2.56	-0.95	-2.38	
4,897.0	90.30	230.30	3,635.0	-892.0	-1,229.7	1,495.3	2.71	0.95	-2.54	



Company:	Petroflow Energy	Local Co-ordinate Reference:	Site Neustrom 1-4H
Project:	McPherson Co, Kansas (NAD-27)	TVD Reference:	WELL @ 1523.0usft (Original Well Elev)
Site:	Neustrom 1-4H	MD Reference:	WELL @ 1523.0usft (Original Well Elev)
Well:	Neustrom 1-4H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	EDM 5000.1 Single User Db

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)
4,961.0	90.00	230.50	3,634.9	-932.8	-1,279.0	1,558.9	0.56	-0.47	0.31
5,024.0	89.30	230.80	3,635.2	-972.7	-1,327.7	1,621.4	1.21	-1.11	0.48
5,088.0	90.40	229.40	3,635.4	-1,013.8	-1,376.8	1,685.1	2.78	1.72	-2.19
5,151.0	89.70	229.70	3,635.4	-1,054.6	-1,424.7	1,747.7	1.21	-1.11	0.48
5,215.0	90.40	228.90	3,635.3	-1,096.4	-1,473.3	1,811.5	1.66	1.09	-1.25
5,279.0	89.60	229.40	3,635.3	-1,138.2	-1,521.7	1,875.2	1.47	-1.25	0.78
5,343.0	90.30	228.60	3,635.4	-1,180.2	-1,570.0	1,938.9	1.66	1.09	-1.25
5,406.0	90.00	227.50	3,635.2	-1,222.3	-1,616.8	2,001.8	1.81	-0.48	-1.75
5,470.0	90.40	226.70	3,635.0	-1,265.9	-1,663.7	2,065.7	1.40	0.63	-1.25
5,534.0	90.50	226.60	3,634.5	-1,309.8	-1,710.3	2,129.6	0.22	0.16	-0.16
5,597.0	90.20	227.20	3,634.1	-1,352.9	-1,756.3	2,192.5	1.06	-0.48	0.95
5,661.0	90.10	228.20	3,633.9	-1,395.9	-1,803.6	2,256.3	1.57	-0.16	1.56
5,724.0	90.10	229.10	3,633.8	-1,437.6	-1,850.9	2,319.1	1.43	0.00	1.43
5,787.0	90.10	230.40	3,633.7	-1,478.3	-1,899.0	2,381.8	2.06	0.00	2.06
5,851.0	89.50	229.20	3,633.9	-1,519.6	-1,947.8	2,445.5	2.10	-0.94	-1.88
5,915.0	89.50	230.50	3,634.5	-1,560.8	-1,996.8	2,509.1	2.03	0.00	2.03
5,979.0	91.00	232.30	3,634.2	-1,600.8	-2,046.8	2,572.5	3.66	2.34	2.81
6,042.0	89.80	231.20	3,633.8	-1,639.8	-2,096.2	2,635.0	2.58	-1.90	-1.75
6,106.0	89.70	231.90	3,634.0	-1,679.6	-2,146.4	2,698.4	1.10	-0.16	1.09
6,170.0	89.20	232.80	3,634.6	-1,718.7	-2,197.0	2,761.7	1.61	-0.78	1.41
6,233.0	89.10	232.80	3,635.6	-1,756.7	-2,247.2	2,823.9	0.16	-0.16	0.00
6,296.0	90.00	233.10	3,636.1	-1,794.7	-2,297.5	2,886.1	1.51	1.43	0.48
6,360.0	89.30	233.00	3,636.5	-1,833.2	-2,348.6	2,949.3	1.10	-1.09	-0.16
6,423.0	90.10	233.60	3,636.8	-1,870.8	-2,399.1	3,011.4	1.59	1.27	0.95
6,485.0	90.70	233.60	3,636.4	-1,907.6	-2,449.0	3,072.6	0.97	0.97	0.00
6,549.0	89.60	232.80	3,636.2	-1,945.9	-2,500.3	3,135.7	2.13	-1.72	-1.25
6,613.0	90.40	233.80	3,636.2	-1,984.2	-2,551.6	3,198.8	2.00	1.25	1.56
6,676.0	90.40	233.80	3,635.8	-2,021.4	-2,602.4	3,260.9	0.00	0.00	0.00
6,740.0	90.40	232.30	3,635.3	-2,059.9	-2,653.6	3,324.1	2.34	0.00	-2.34
6,803.0	90.70	232.10	3,634.7	-2,098.5	-2,703.4	3,386.4	0.57	0.48	-0.32
6,867.0	90.00	232.50	3,634.3	-2,137.6	-2,754.0	3,449.7	1.26	-1.09	0.63
6,930.0	90.60	233.00	3,634.0	-2,175.8	-2,804.2	3,512.0	1.24	0.95	0.79
6,993.0	89.50	231.20	3,633.9	-2,214.5	-2,853.9	3,574.3	3.35	-1.75	-2.86
7,057.0	90.20	230.50	3,634.1	-2,254.9	-2,903.5	3,637.8	1.55	1.09	-1.09
7,120.0	90.00	231.20	3,634.0	-2,294.6	-2,952.3	3,700.4	1.16	-0.32	1.11
7,184.0	89.80	227.80	3,634.1	-2,336.2	-3,001.0	3,764.1	5.32	-0.31	-5.31
7,247.0	89.30	227.20	3,634.6	-2,378.8	-3,047.5	3,826.9	1.24	-0.79	-0.95
7,311.0	90.50	227.60	3,634.7	-2,422.1	-3,094.6	3,890.8	1.98	1.88	0.63
7,374.0	91.50	226.60	3,633.6	-2,464.9	-3,140.7	3,953.7	2.24	1.59	-1.59
7,406.0	91.60	226.00	3,632.7	-2,487.0	-3,163.8	3,985.7	1.90	0.31	-1.88
7,437.0	91.80	226.20	3,631.8	-2,508.5	-3,186.2	4,016.6	0.91	0.65	0.65
7,501.0	91.90	227.00	3,629.8	-2,552.5	-3,232.6	4,080.5	1.26	0.16	1.25
7,565.0	90.30	227.30	3,628.5	-2,596.0	-3,279.5	4,144.4	2.54	-2.50	0.47



Company:	Petroflow Energy	Local Co-ordinate Reference:	Site Neustrom 1-4H
Project:	McPherson Co, Kansas (NAD-27)	TVD Reference:	WELL @ 1523.0usft (Original Well Elev)
Site:	Neustrom 1-4H	MD Reference:	WELL @ 1523.0usft (Original Well Elev)
Well:	Neustrom 1-4H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	EDM 5000.1 Single User Db

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)	
7,628.0	90.60	227.40	3,628.0	-2,638.7	-3,325.9	4,207.3	0.50	0.48	0.16	
7,691.0	89.60	226.00	3,627.9	-2,681.9	-3,371.7	4,270.2	2.73	-1.59	-2.22	
7,754.0	89.40	225.70	3,628.5	-2,725.8	-3,416.9	4,333.2	0.57	-0.32	-0.48	
7,818.0	90.10	226.10	3,628.8	-2,770.3	-3,462.9	4,397.1	1.26	1.09	0.63	
7,881.0	89.50	224.30	3,629.0	-2,814.7	-3,507.6	4,460.1	3.01	-0.95	-2.86	
Last Survey										
7,930.0	89.50	224.30	3,629.4	-2,849.8	-3,541.8	4,509.1	0.00	0.00	0.00	
Projection to Bit										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
360.0	360.0	-0.6	0.1	First Survey	
7,881.0	3,629.0	-2,814.7	-3,507.6	Last Survey	
7,930.0	3,629.4	-2,849.8	-3,541.8	Projection to Bit	

Checked By: _____ Approved By: _____ Date: _____

Client: Petroflow Energy
Well Name: Neuström #1-4H
Field:

Location: McPherson Co., KS

Country: United States

Prov/State: KS

County: McPherson

Drilling Rig #: Project #2

Latitude:

Longitude:

UWI/API:

License/Permit#:

Job No: OK13154

Vertical Section Direction: 223.88

KB: 0

DF: 0

GL: 0

Permanent Datum: 0

Drilling Measurement From: 0

Magnetic Declination: 3.83

Mag Field: .52581

Dip Angle: 66.48

Spud Date: -

Print Date: 9/8/2013

Log Start Depth: 2910

Log End Depth: 7950

Company Representative

Lynson Autry

Geologist

Directional Drillers

Doug Randall

Bob Hutchinson

MWD Operator

Joe Newberry

Derek Harris

Leg Name

Main Leg

Comments:

PAN AMERICAN DRILLING SERVICES (PAN-AM) DOES NOT MAKE AND EXPRESSLY DISCLAIMS ALL WARRANTIES, REPRESENTATIONS AND CONDITIONS, WITH RESPECT TO THE INFORMATION CONTAINED IN THIS DOCUMENT, WHETHER ORAL OR WRITTEN, EXPRESS OR IMPLIED OR ARISING FROM CONTRACT OR STATUTE INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY, ACCURACY AND FITNESS FOR A PARTICULAR PURPOSE. ANYONE USING THIS INFORMATION DOES SO AT THEIR OWN RISK AND ACKNOWLEDGES AND AGREES THAT PAN-AM SHALL NOT BE LIABLE FOR ANY ERROR, OMISSION, DEFECT, DEFICIENCY, OR NONCONFORMITY IN THE INFORMATION AND WITHOUT LIMITING THE FOREGOING, PAN-AM DOES NOT WARRANT THAT THE INFORMATION OR THE USE THEREOF WILL BE FREE OF ALL ERRORS OR THAT IT DOES NOT INFRINGE ANY THIRD PARTY RIGHTS. ANYONE USING THE INFORMATION AGREES TO INDEMNIFY AND HOLD PAN-AM HARMLESS FROM ALL CLAIMS, ACTIONS, COSTS (INCLUDING LEGAL COSTS) ON A SOLICITOR AND HIS OWN CLIENT BASIS) AND LIABILITIES ARISING FROM OR IN CONNECTION WITH THE USE OF THE INFORMATION.

BitRun:	1	2
Start Depth:	0	3965.5
End Depth:	3965.5	7929.46
Start Date:	2013/08/28	2013/09/02
End Date:	2013/09/02	2013/09/07
Gamma Scale Factor:	3	2
Survey-to-Bit (PTB):	52	49
Gamma-to-Bit (GTB):	39.98	37.38
Drill Collar ID/OD:	-	6.125
Hole Size:	0	0
Casing Size:	0	7
Casing Start Depth:	-	-
Casing End Depth:	-	-
Mud Type 1:	-	-
Mud Weight 1:	-	-
Mud Viscosity 1:	-	-
Mud Type 2:	-	-
Mud Weight 2:	-	-
Mud Viscosity 2:	-	-
Comment:	-	-

BitRun:		
Start Depth:		
End Depth:		
Start Date:		
End Date:		
Gamma Scale Factor:		
Survey-to-Bit (PTB):		
Gamma-to-Bit (GTB):		
Drill Collar ID/OD:		
Hole Size:		
Casing Size:		
Casing Start Depth:		
Casing End Depth:		
Mud Type 1:		
Mud Weight 1:		
Mud Viscosity 1:		
Mud Type 2:		
Mud Weight 2:		
Mud Viscosity 2:		
Comment:		

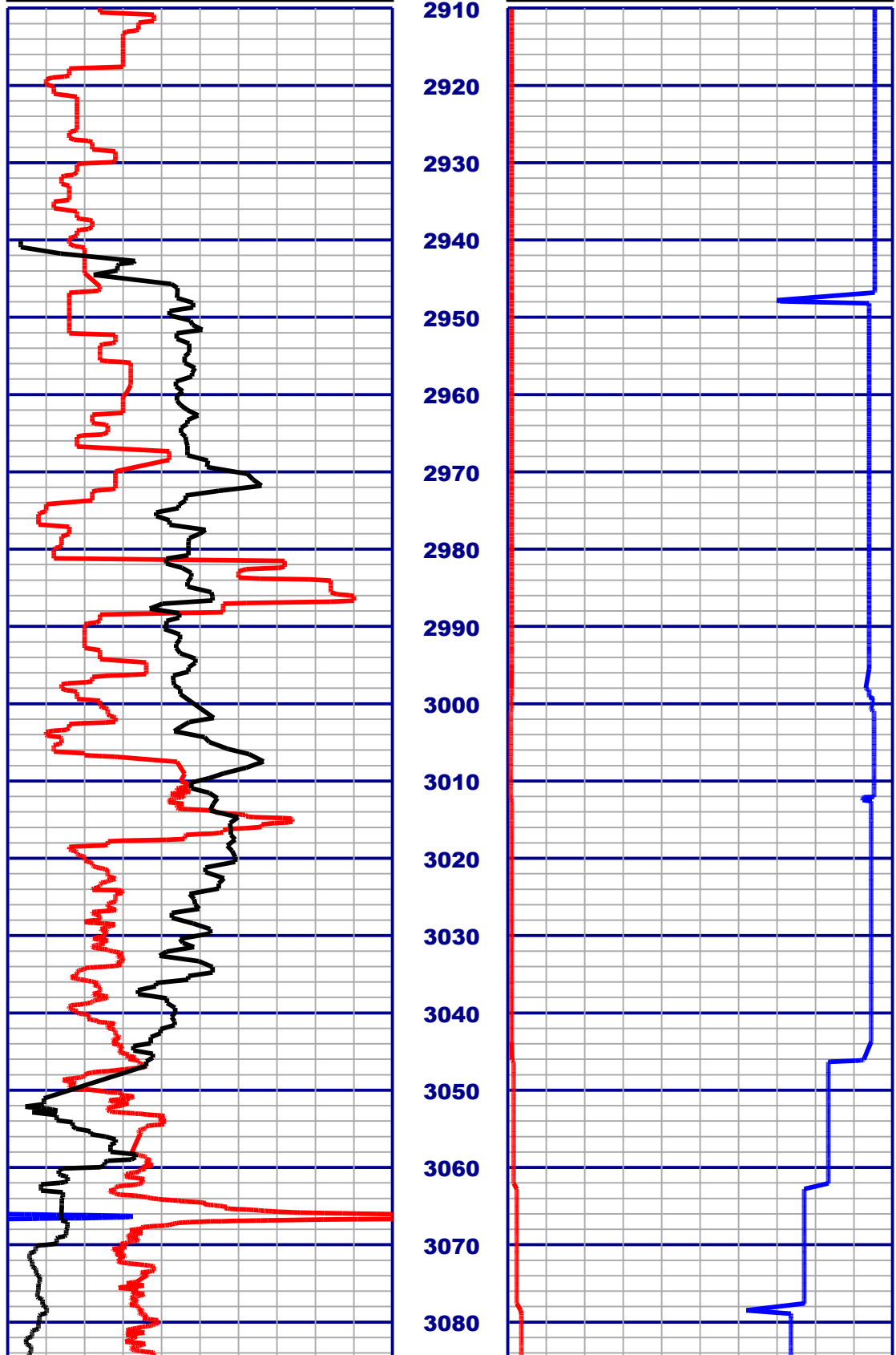


**Petroflow Energy
Project Drilling
McPherson Co., KS
Neustrom #1-4H**

**MD
1:240
Feet**

0	Gamma (AAPI)	150
150	Gamma (AAPI)	300
300	Gamma (AAPI)	450
0	ROP (ft per hr)	200

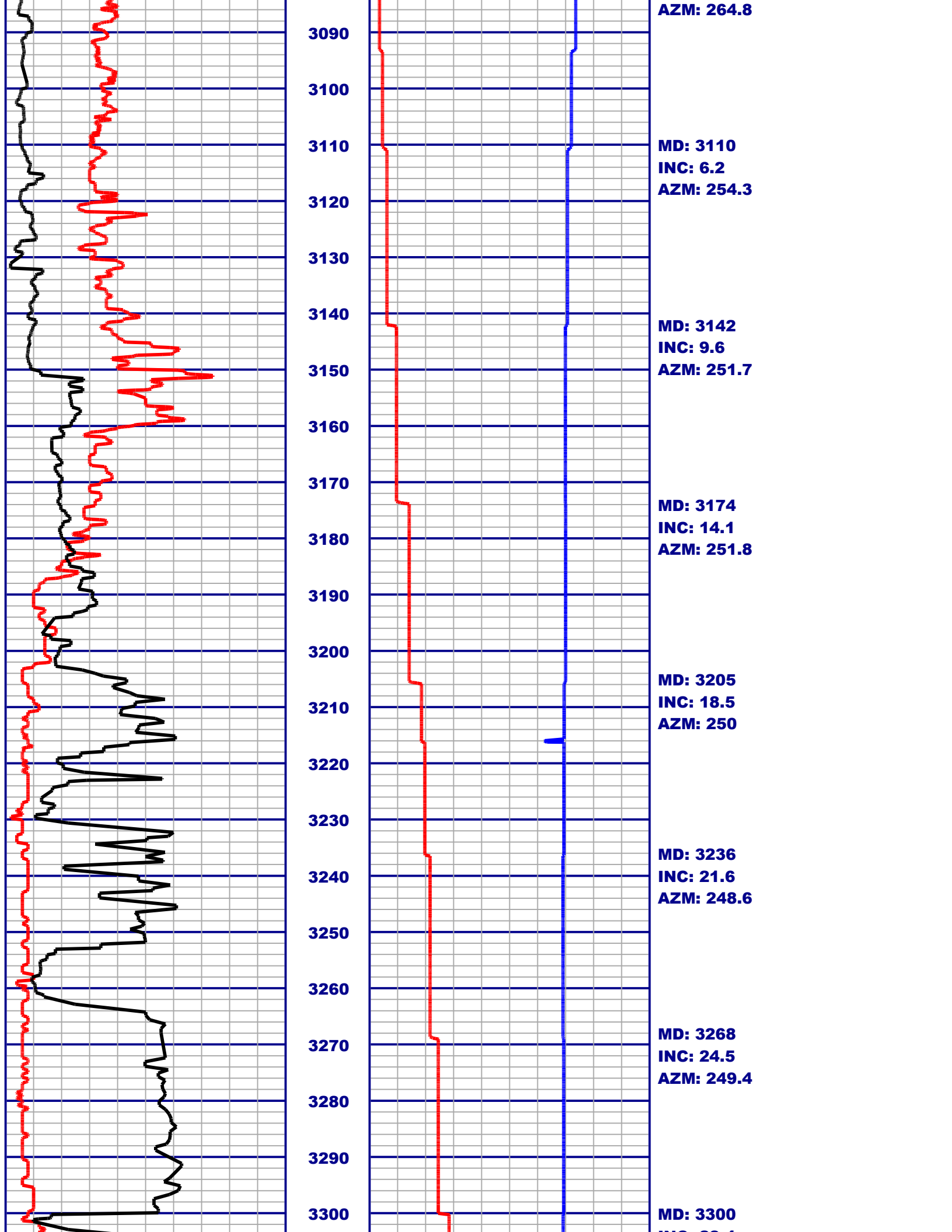
0	Inclination (deg)	100
0	Azimuth (deg)	360



**MD: 2982
INC: 0.8
AZM: 342.7**

**MD: 3014
INC: 1
AZM: 340**

**MD: 3046
INC: 1.5
AZM: 300**



3090

AZM: 264.8

3100

3110

MD: 3110

INC: 6.2

AZM: 254.3

3120

3130

3140

MD: 3142

INC: 9.6

AZM: 251.7

3150

3160

3170

MD: 3174

INC: 14.1

AZM: 251.8

3180

3190

3200

MD: 3205

INC: 18.5

AZM: 250

3210

3220

3230

MD: 3236

INC: 21.6

AZM: 248.6

3240

3250

3260

MD: 3268

INC: 24.5

AZM: 249.4

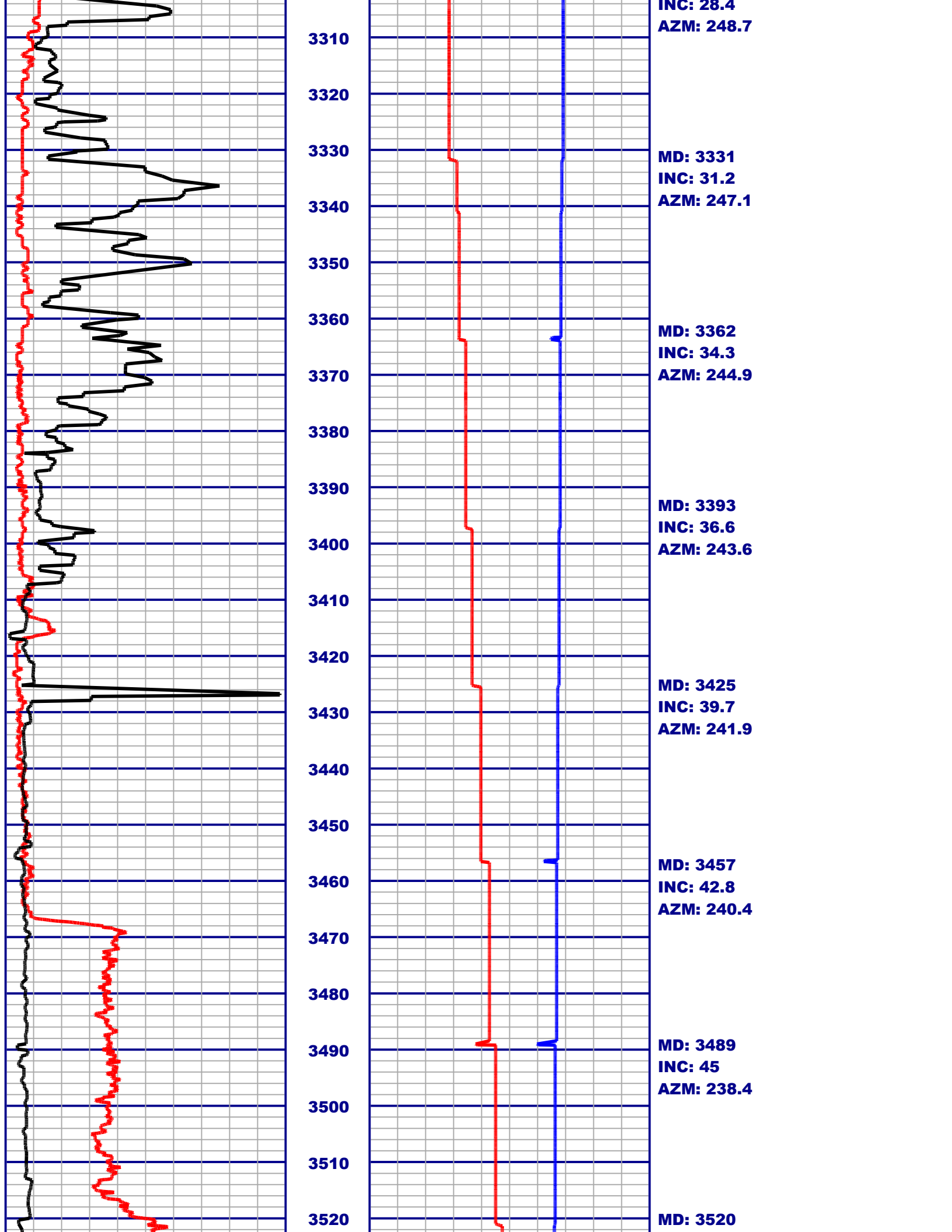
3270

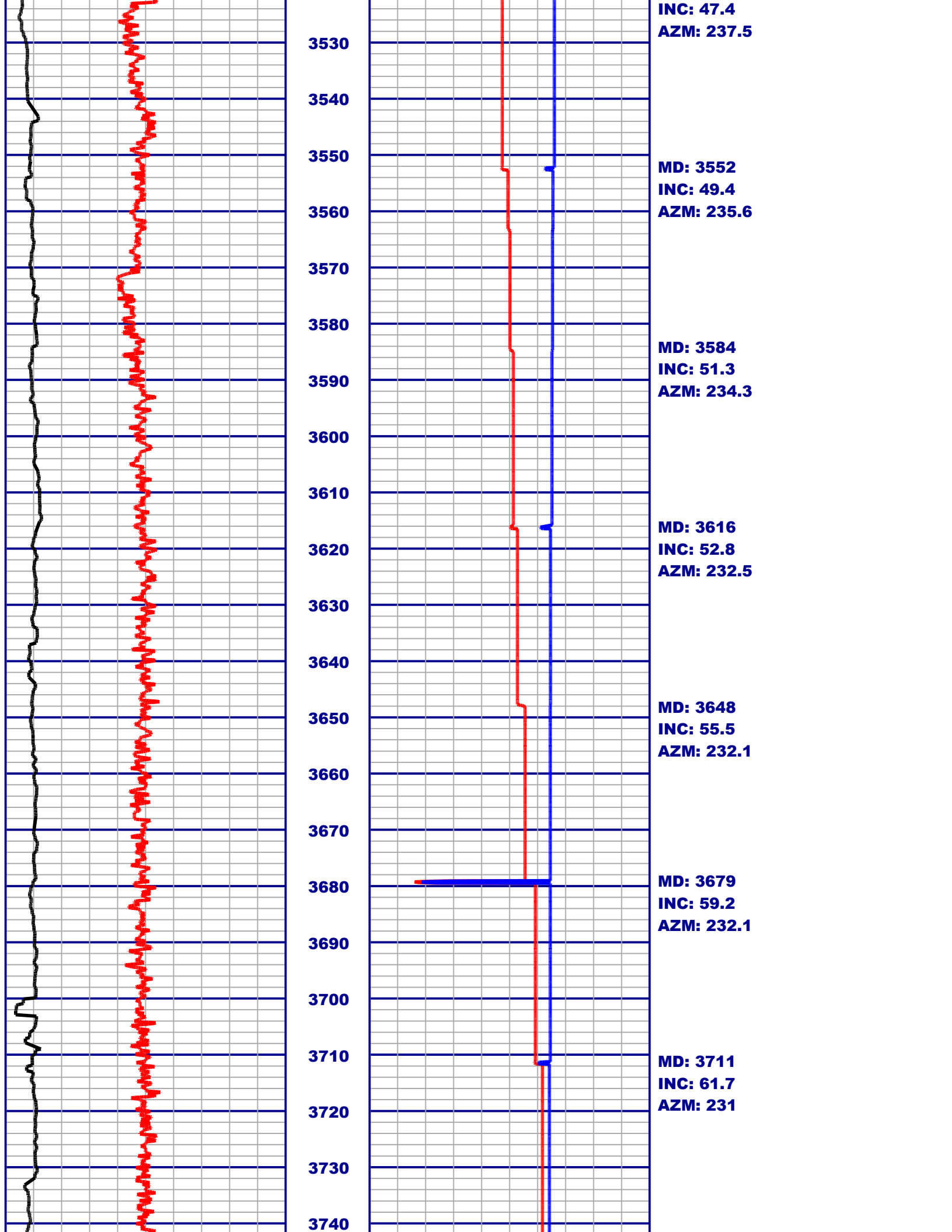
3280

3290

3300

MD: 3300





INC: 47.4
AZM: 237.5

3530

3540

3550

MD: 3552
INC: 49.4
AZM: 235.6

3560

3570

3580

MD: 3584
INC: 51.3
AZM: 234.3

3590

3600

3610

MD: 3616
INC: 52.8
AZM: 232.5

3620

3630

3640

MD: 3648
INC: 55.5
AZM: 232.1

3650

3660

3670

MD: 3679
INC: 59.2
AZM: 232.1

3680

3690

3700

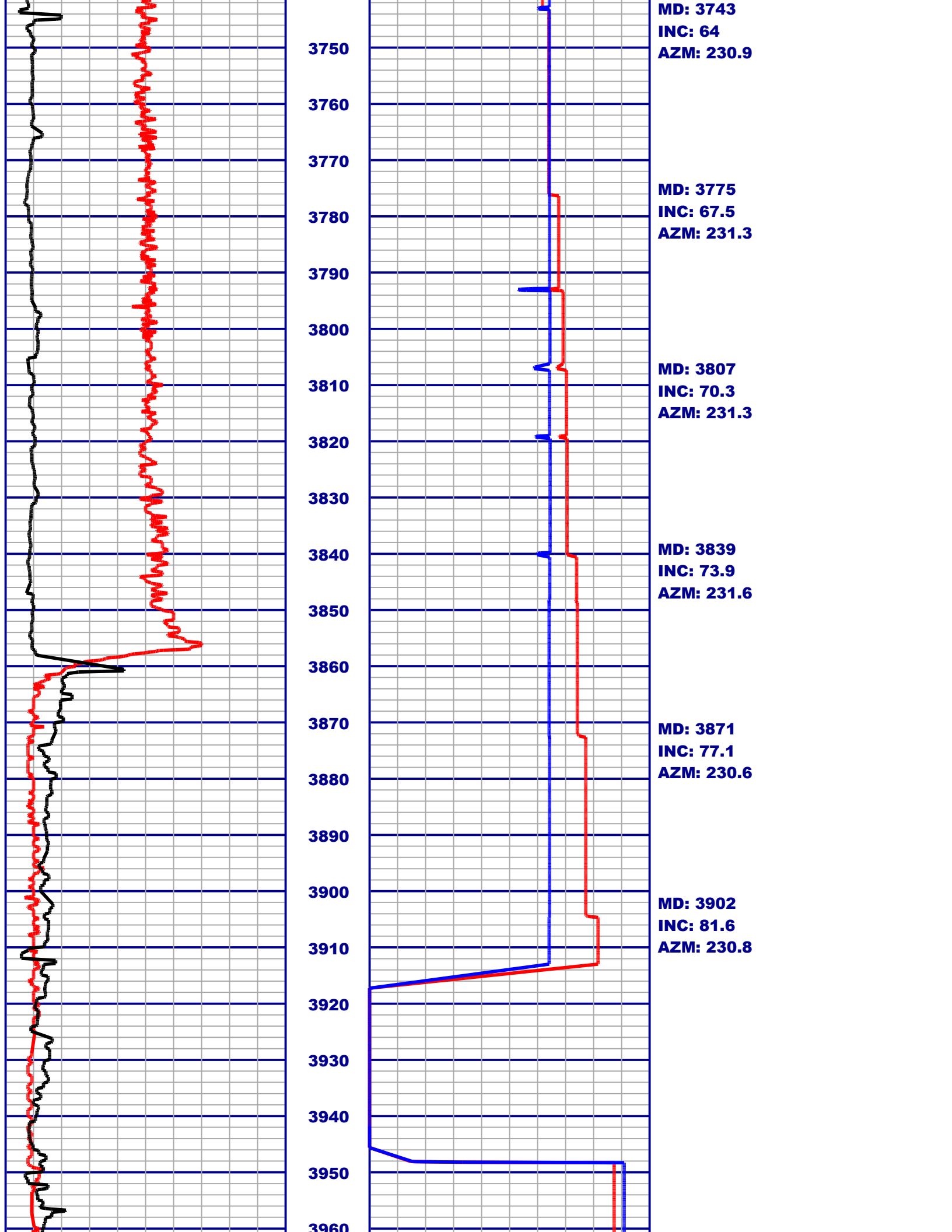
MD: 3711
INC: 61.7
AZM: 231

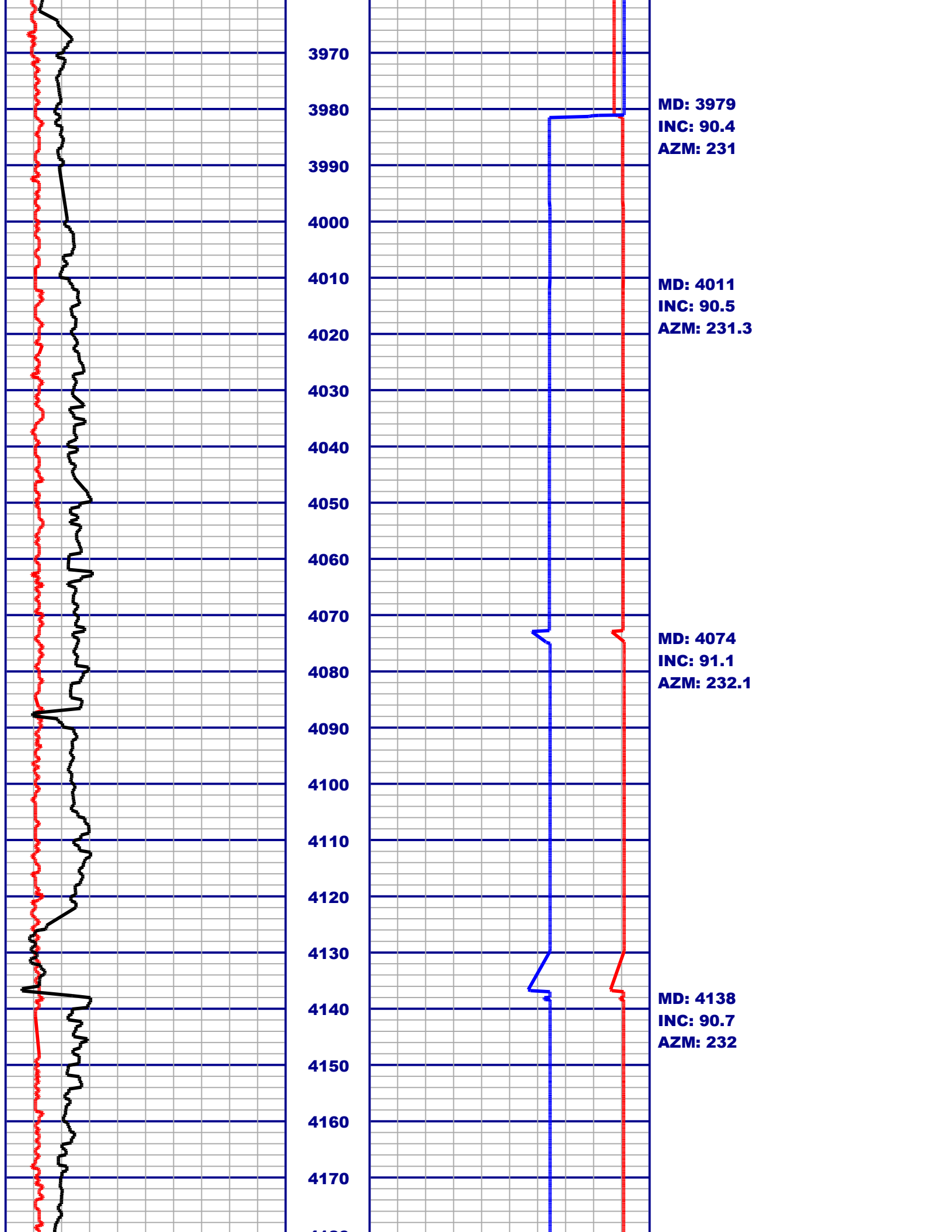
3710

3720

3730

3740





3970

3980

3990

4000

4010

4020

4030

4040

4050

4060

4070

4080

4090

4100

4110

4120

4130

4140

4150

4160

4170

MD: 3979

INC: 90.4

AZM: 231

MD: 4011

INC: 90.5

AZM: 231.3

MD: 4074

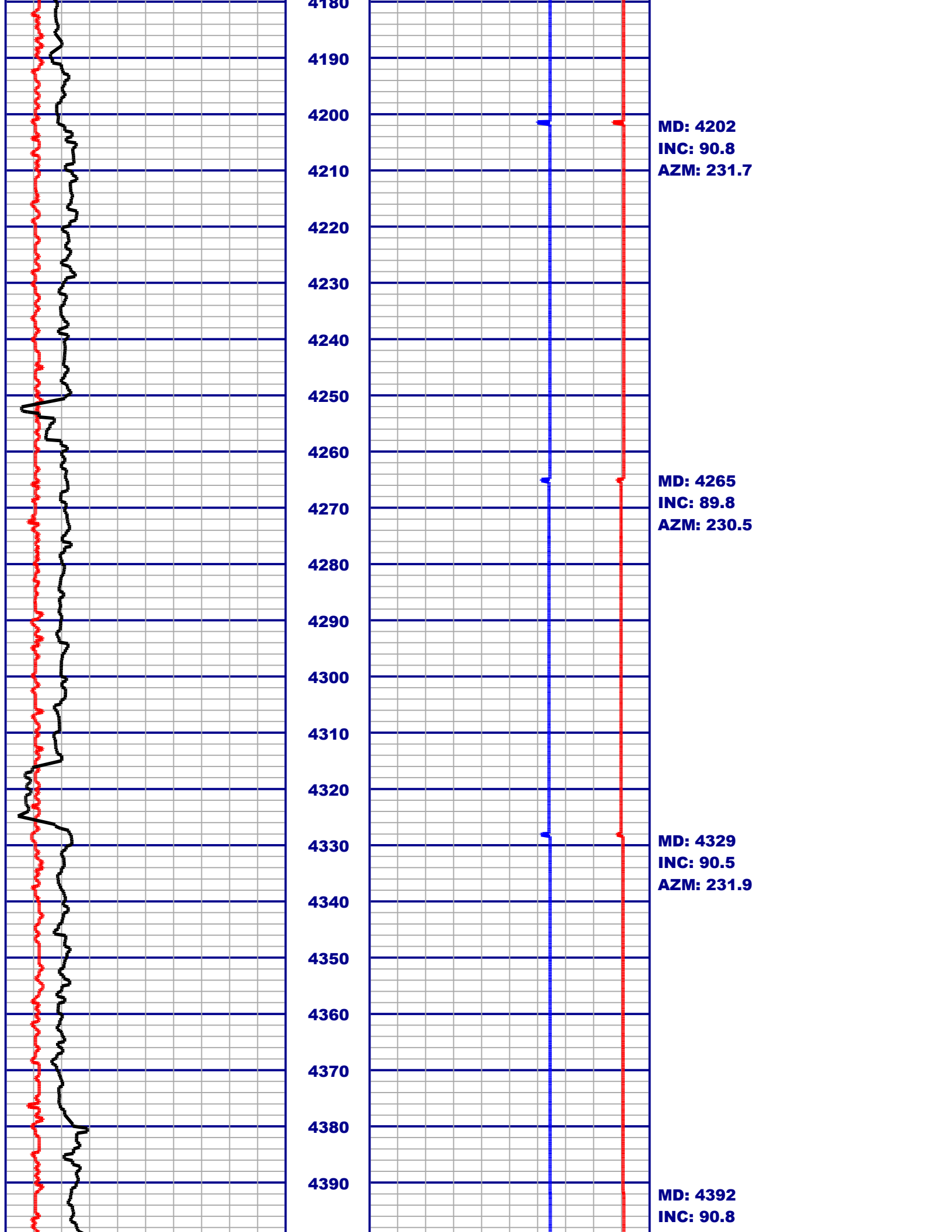
INC: 91.1

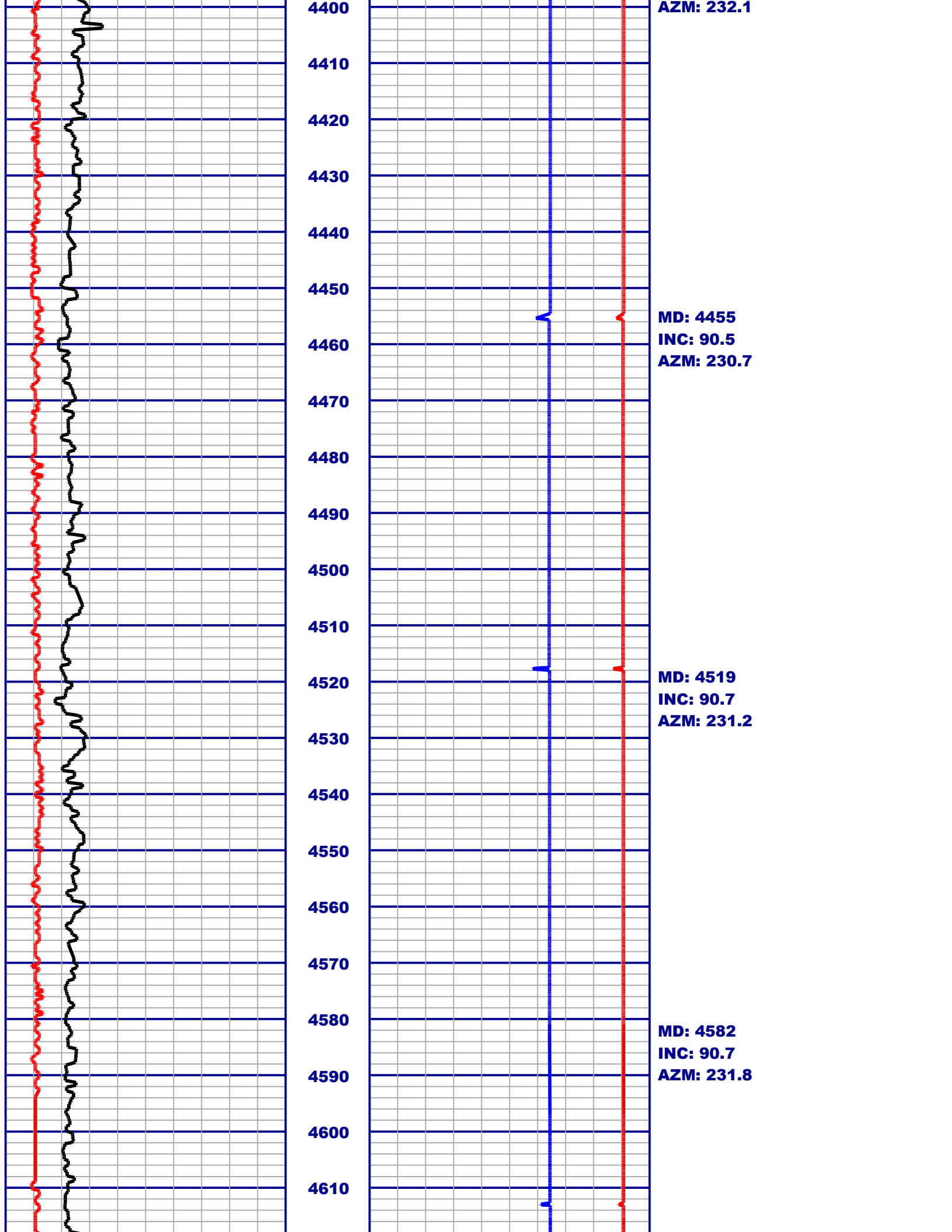
AZM: 232.1

MD: 4138

INC: 90.7

AZM: 232





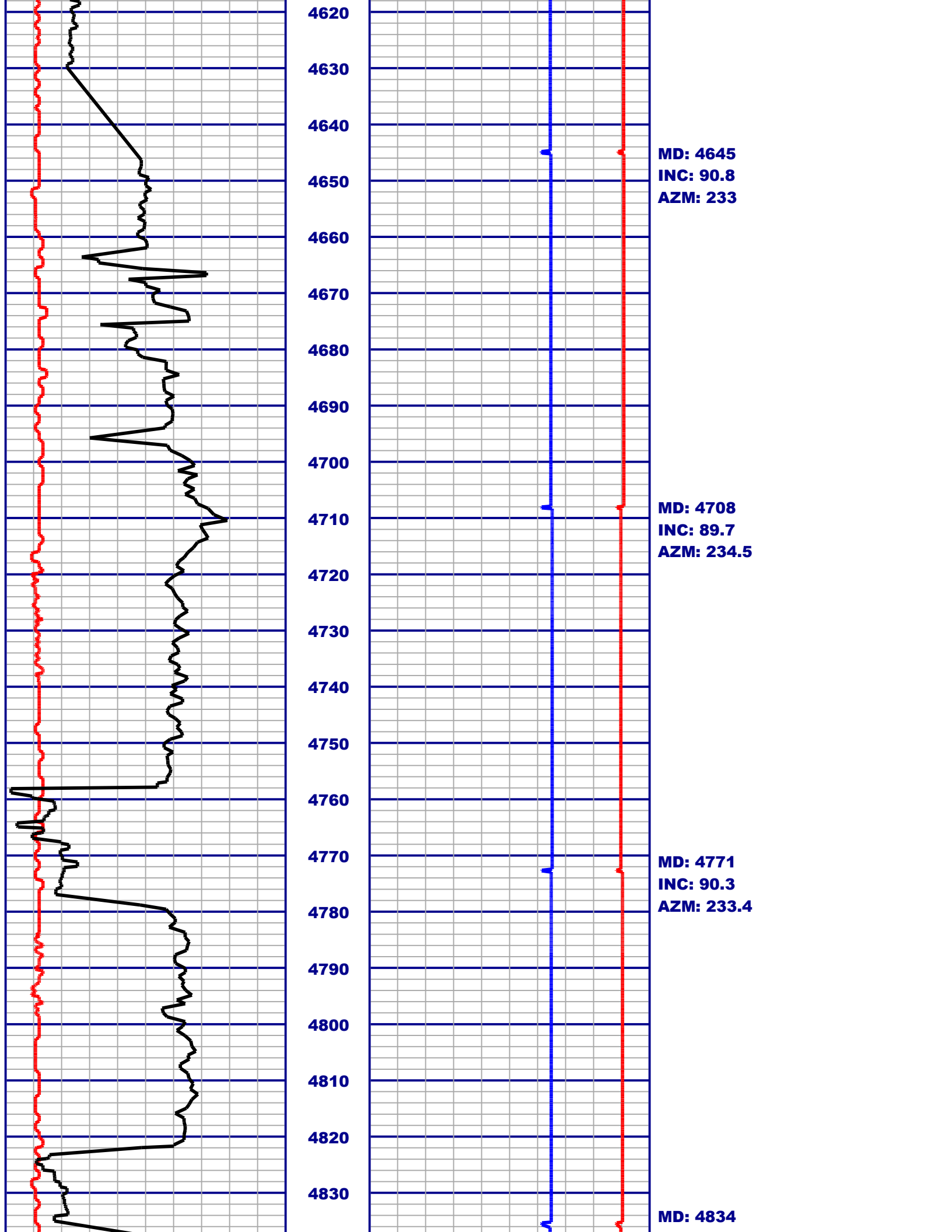
4400
4410
4420
4430
4440
4450
4460
4470
4480
4490
4500
4510
4520
4530
4540
4550
4560
4570
4580
4590
4600
4610

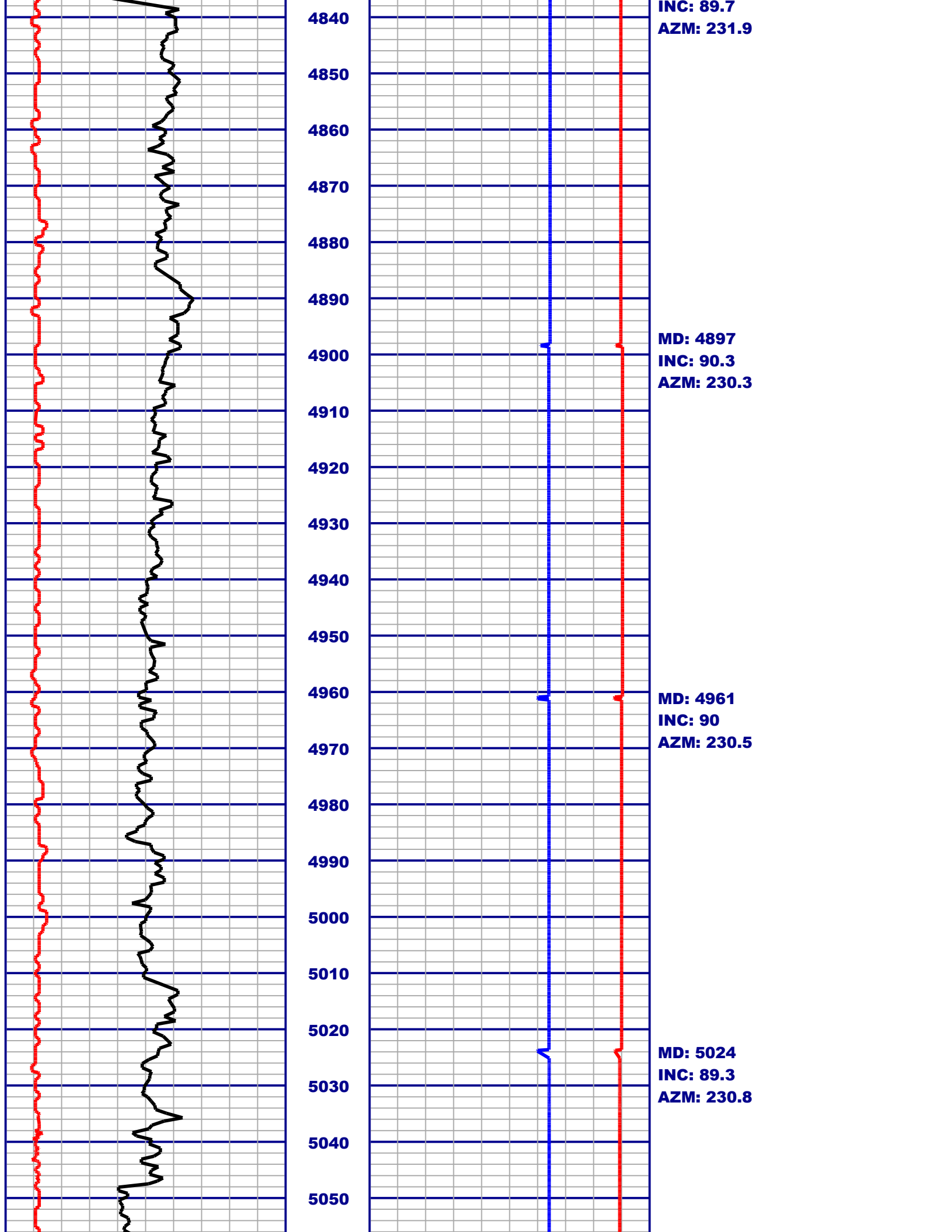
AZM: 232.1

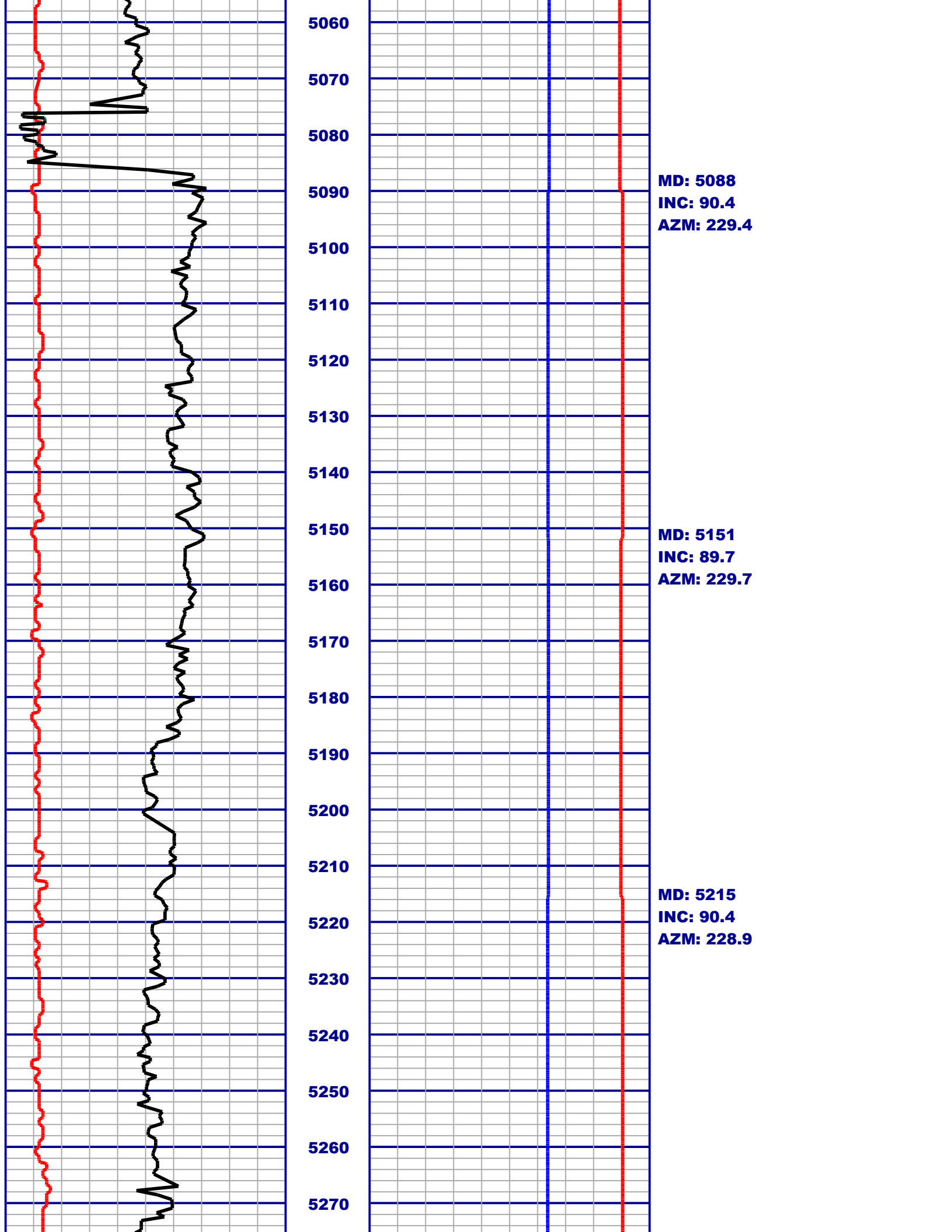
MD: 4455
INC: 90.5
AZM: 230.7

MD: 4519
INC: 90.7
AZM: 231.2

MD: 4582
INC: 90.7
AZM: 231.8







5060

5070

5080

5090

5100

5110

5120

5130

5140

5150

5160

5170

5180

5190

5200

5210

5220

5230

5240

5250

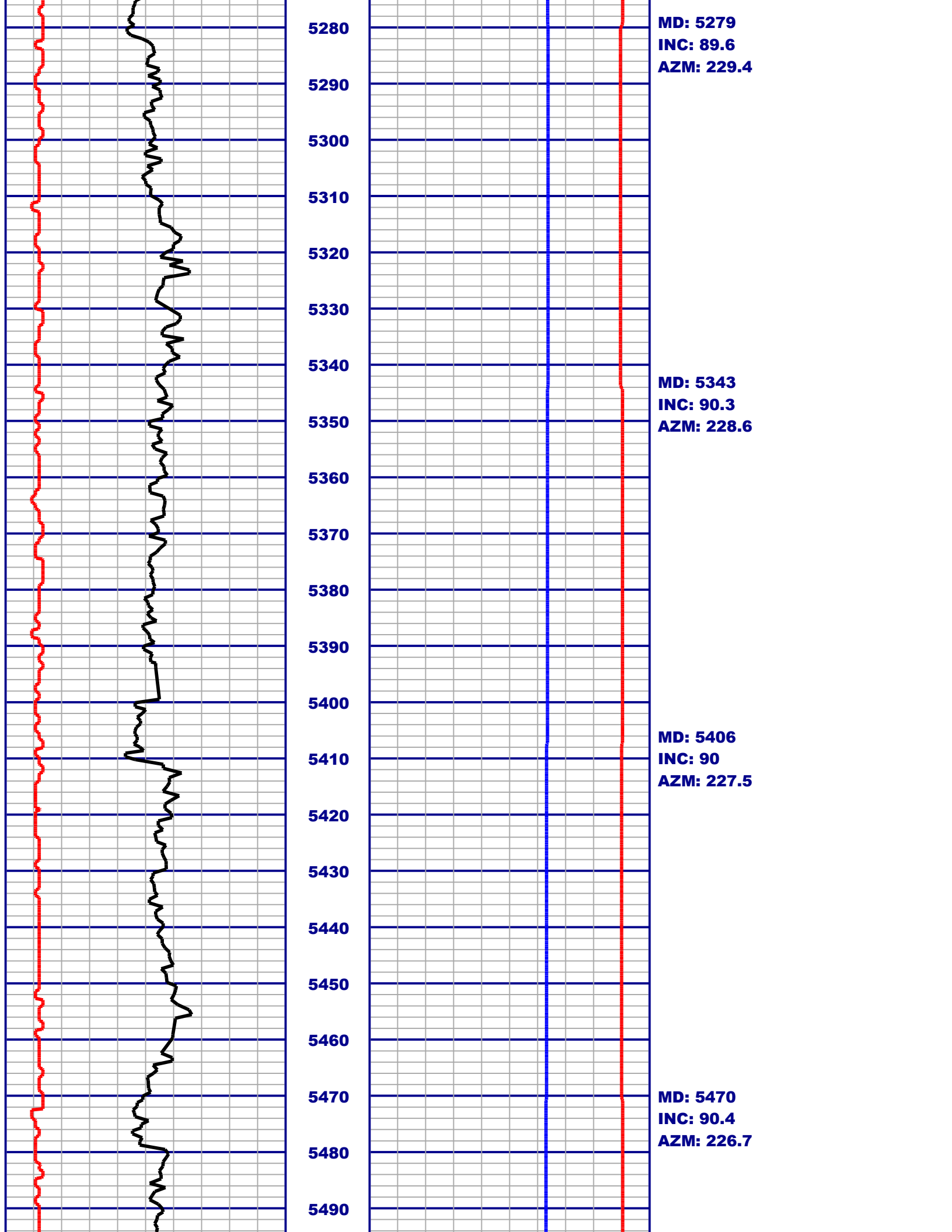
5260

5270

MD: 5088
INC: 90.4
AZM: 229.4

MD: 5151
INC: 89.7
AZM: 229.7

MD: 5215
INC: 90.4
AZM: 228.9



5280

**MD: 5279
INC: 89.6
AZM: 229.4**

5290

5300

5310

5320

5330

5340

**MD: 5343
INC: 90.3
AZM: 228.6**

5350

5360

5370

5380

5390

5400

**MD: 5406
INC: 90
AZM: 227.5**

5410

5420

5430

5440

5450

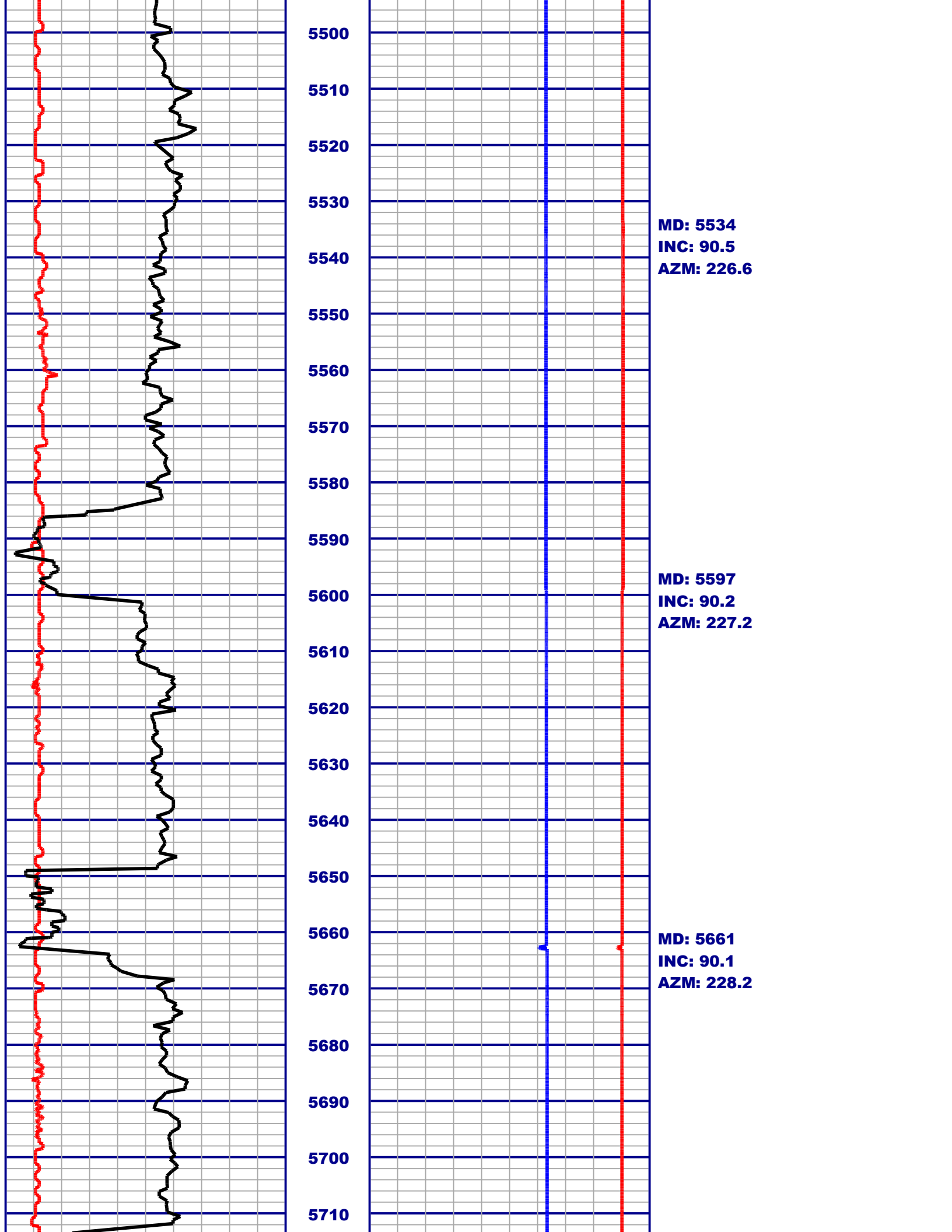
5460

5470

**MD: 5470
INC: 90.4
AZM: 226.7**

5480

5490



5500

5510

5520

5530

5540

5550

5560

5570

5580

5590

5600

5610

5620

5630

5640

5650

5660

5670

5680

5690

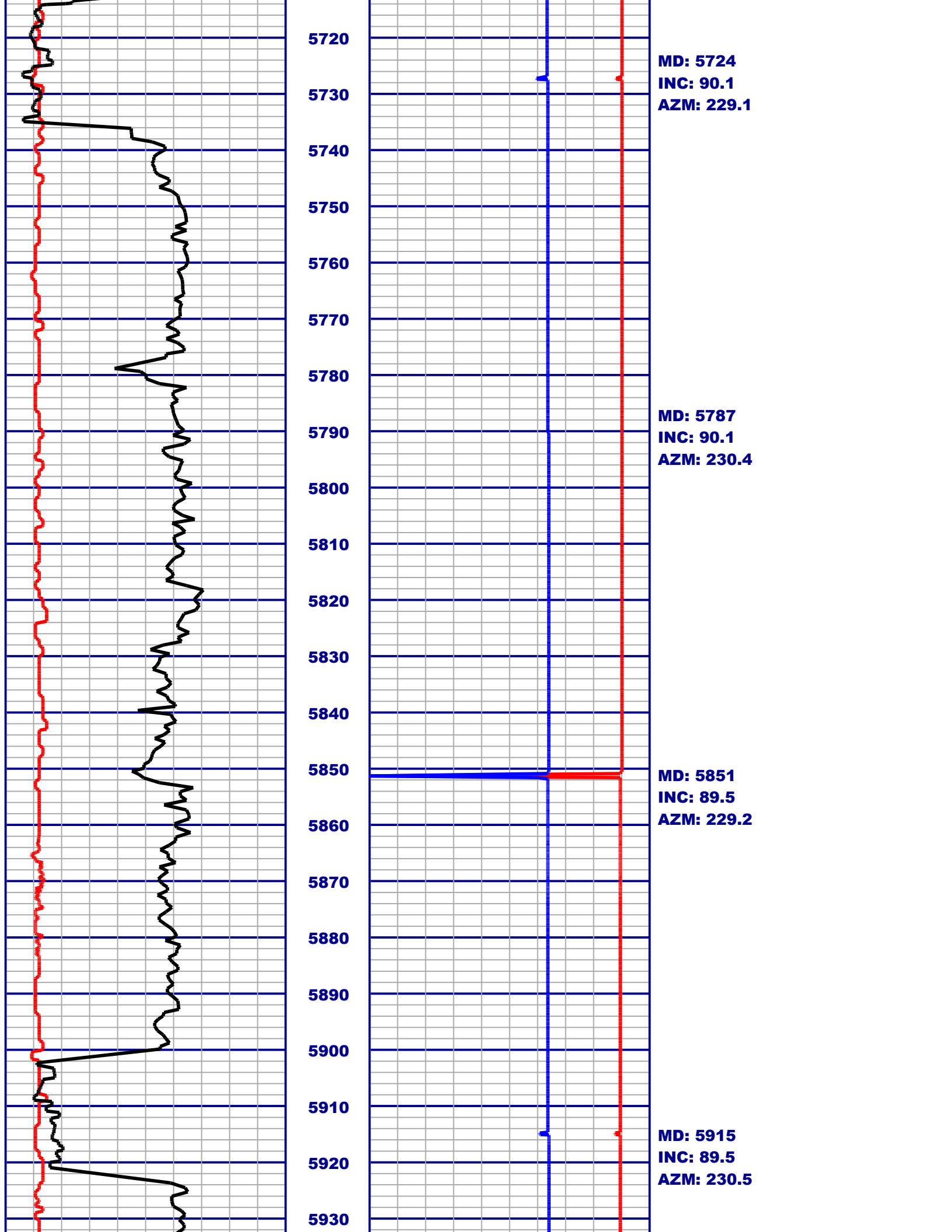
5700

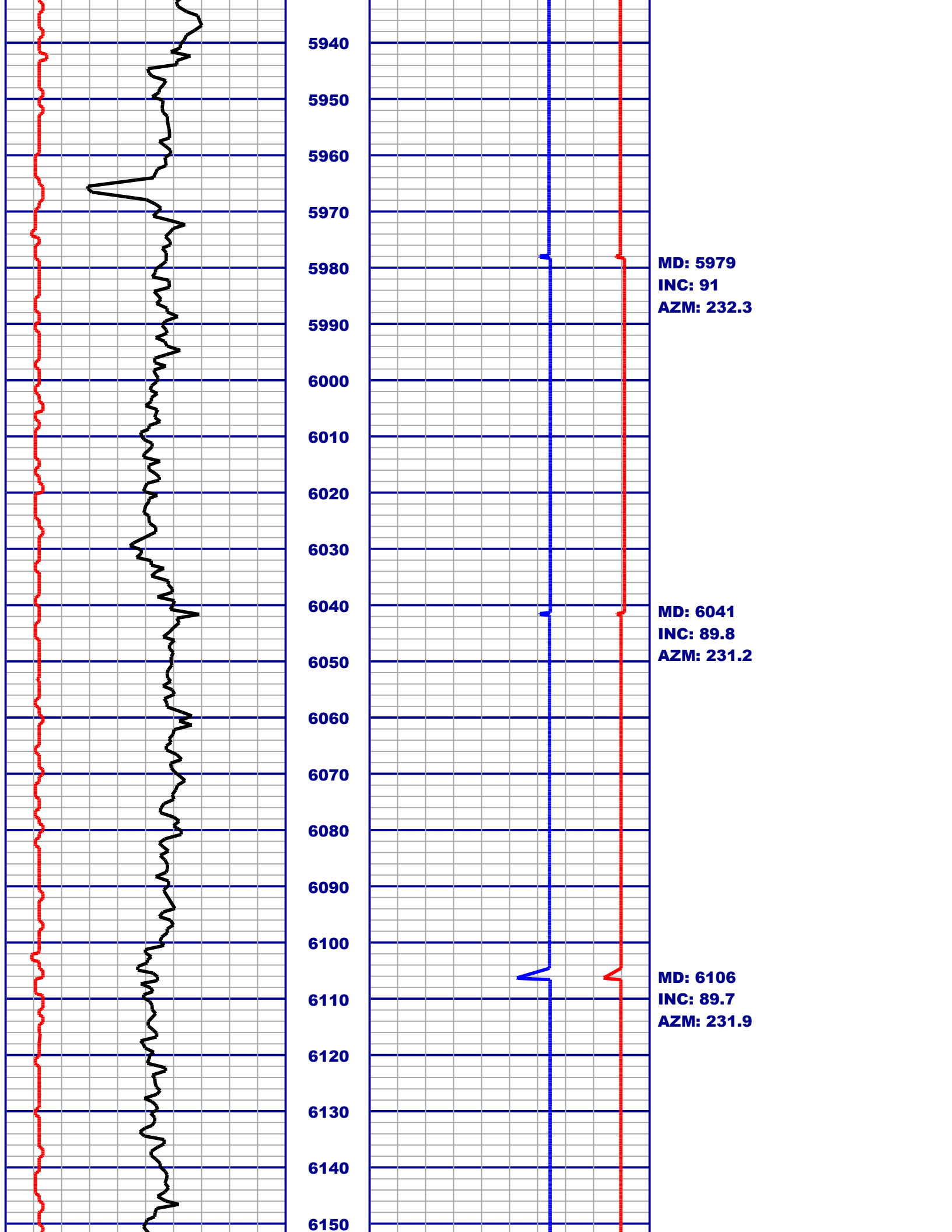
5710

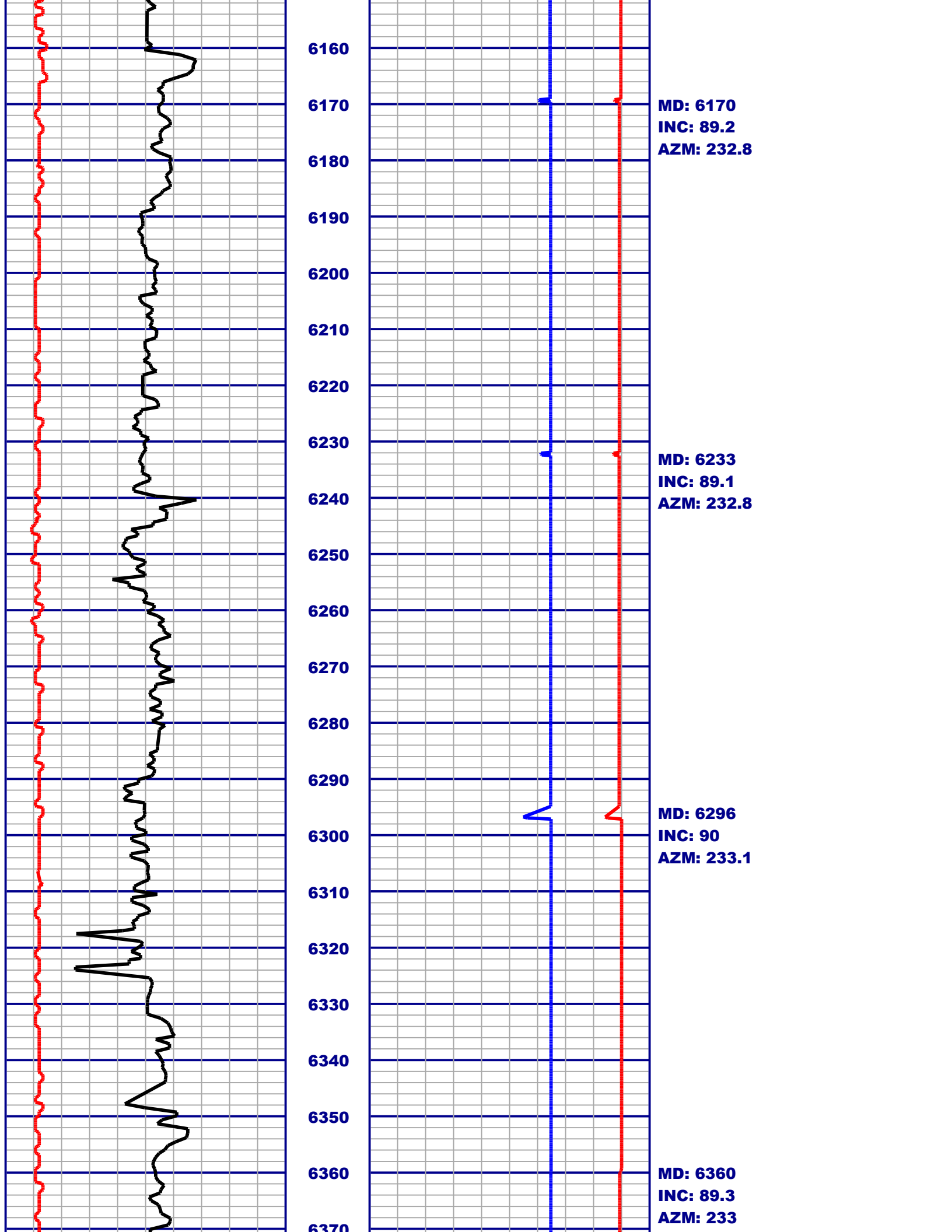
MD: 5534
INC: 90.5
AZM: 226.6

MD: 5597
INC: 90.2
AZM: 227.2

MD: 5661
INC: 90.1
AZM: 228.2







6160

6170

**MD: 6170
INC: 89.2
AZM: 232.8**

6180

6190

6200

6210

6220

6230

**MD: 6233
INC: 89.1
AZM: 232.8**

6240

6250

6260

6270

6280

6290

**MD: 6296
INC: 90
AZM: 233.1**

6300

6310

6320

6330

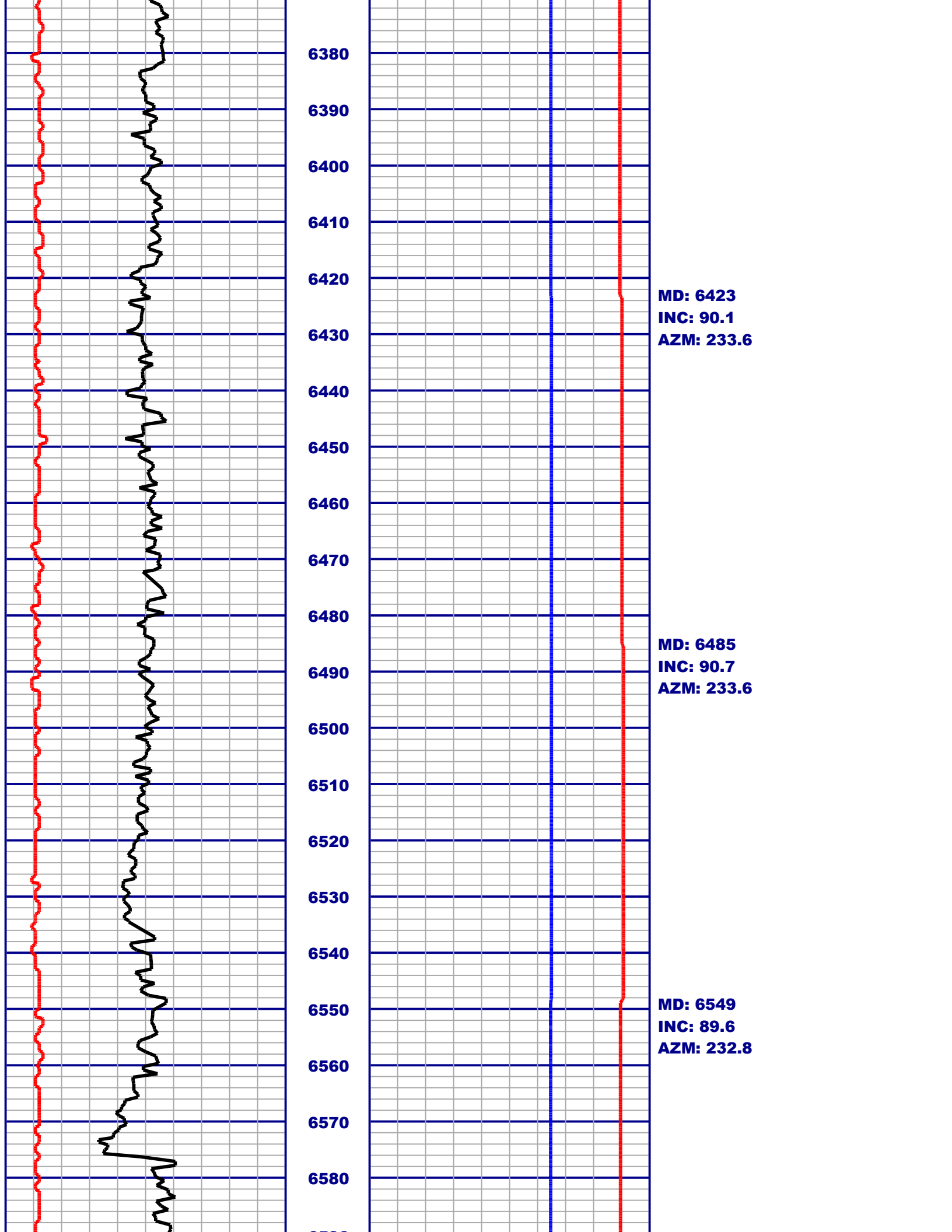
6340

6350

**MD: 6360
INC: 89.3
AZM: 233**

6360

6370



6380

6390

6400

6410

6420

6430

6440

6450

6460

6470

6480

6490

6500

6510

6520

6530

6540

6550

6560

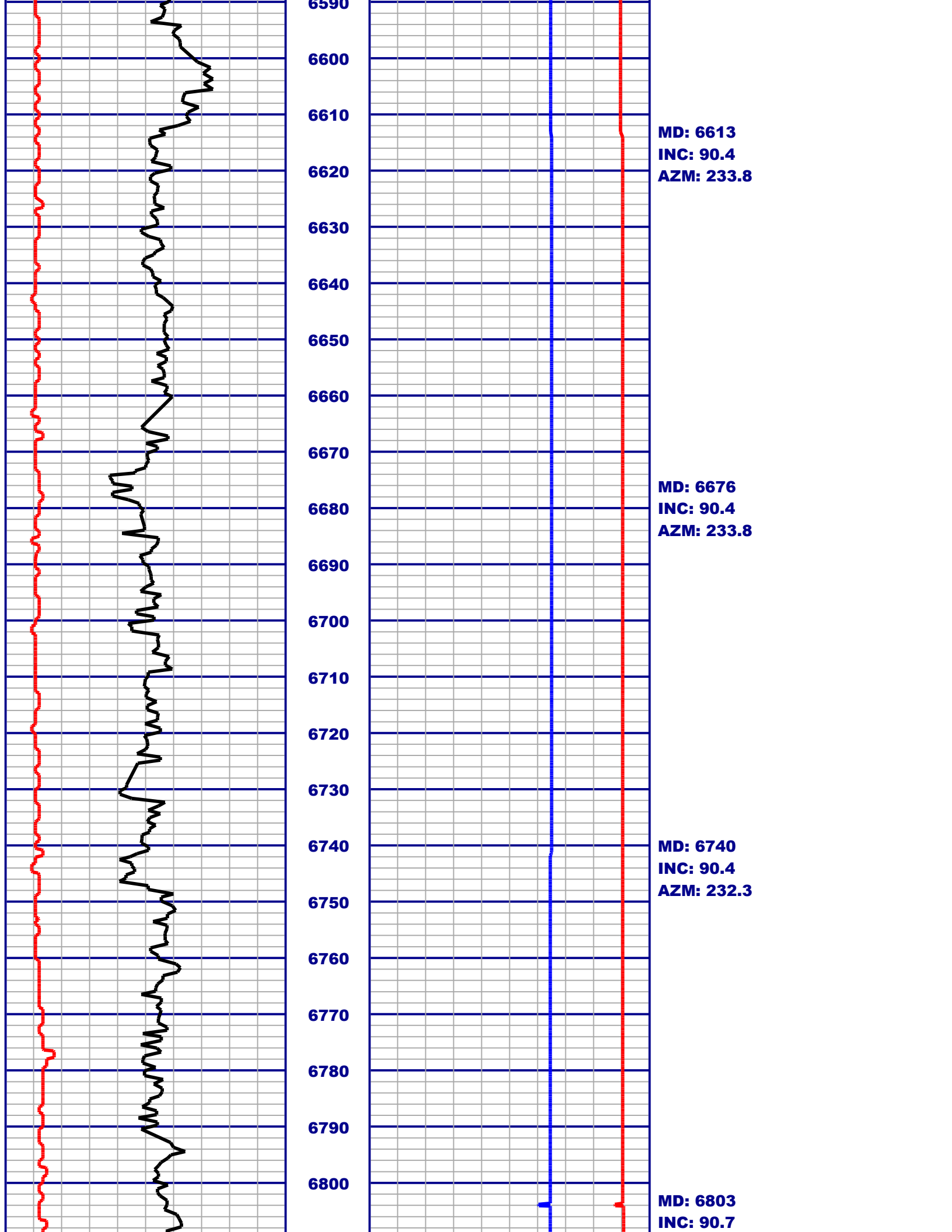
6570

6580

MD: 6423
INC: 90.1
AZM: 233.6

MD: 6485
INC: 90.7
AZM: 233.6

MD: 6549
INC: 89.6
AZM: 232.8

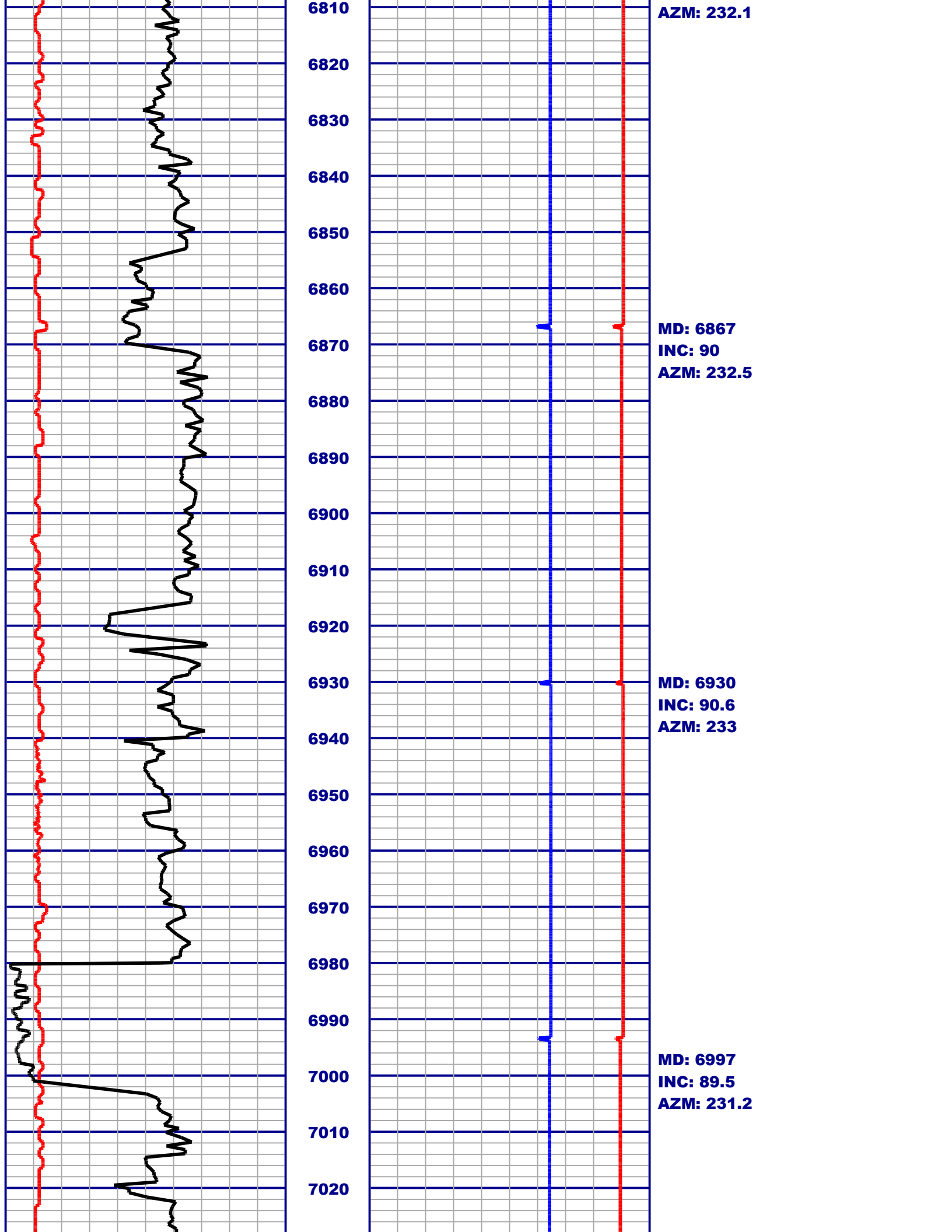


MD: 6613
INC: 90.4
AZM: 233.8

MD: 6676
INC: 90.4
AZM: 233.8

MD: 6740
INC: 90.4
AZM: 232.3

MD: 6803
INC: 90.7



AZM: 232.1

6810

6820

6830

6840

6850

6860

6870

MD: 6867

INC: 90

AZM: 232.5

6880

6890

6900

6910

6920

6930

MD: 6930

INC: 90.6

AZM: 233

6940

6950

6960

6970

6980

6990

MD: 6997

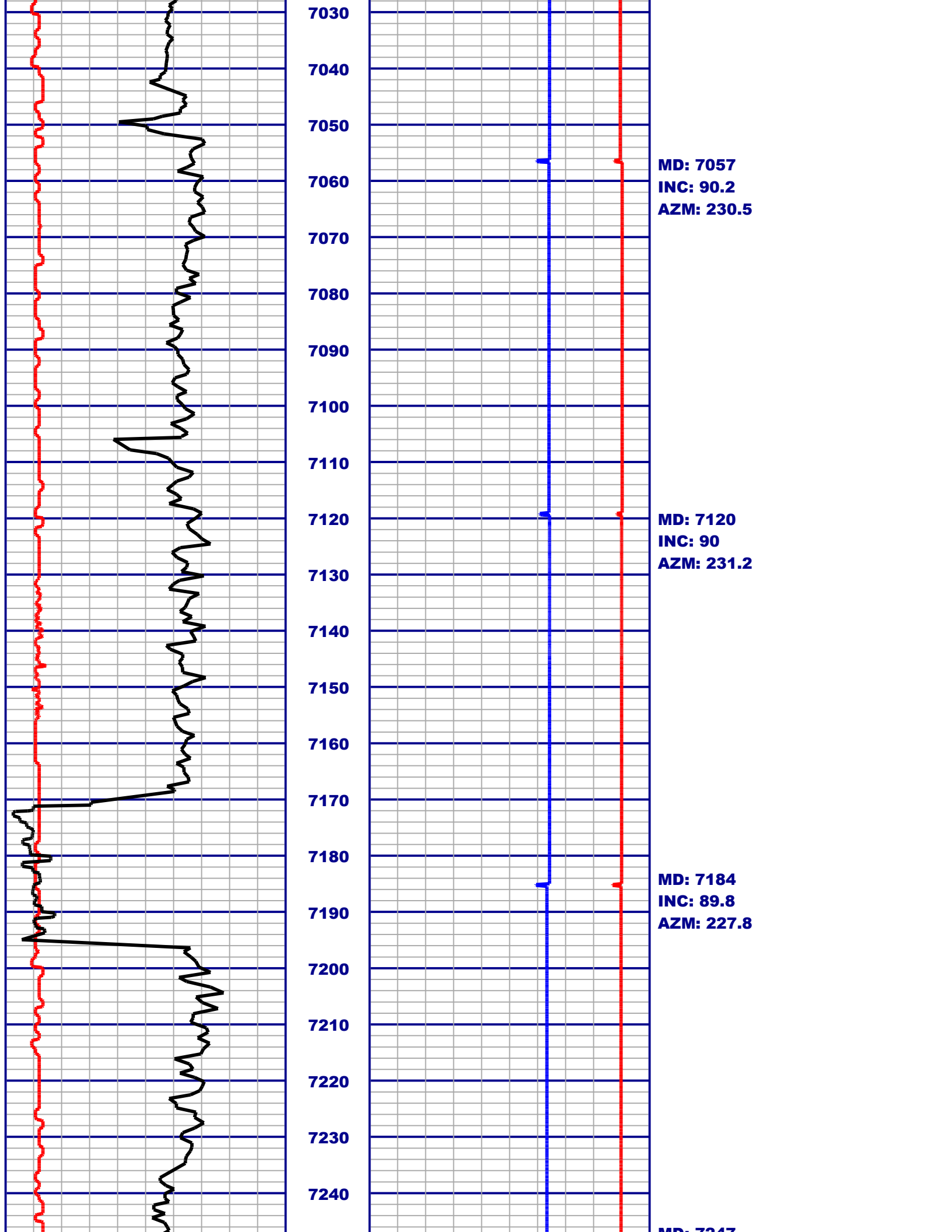
INC: 89.5

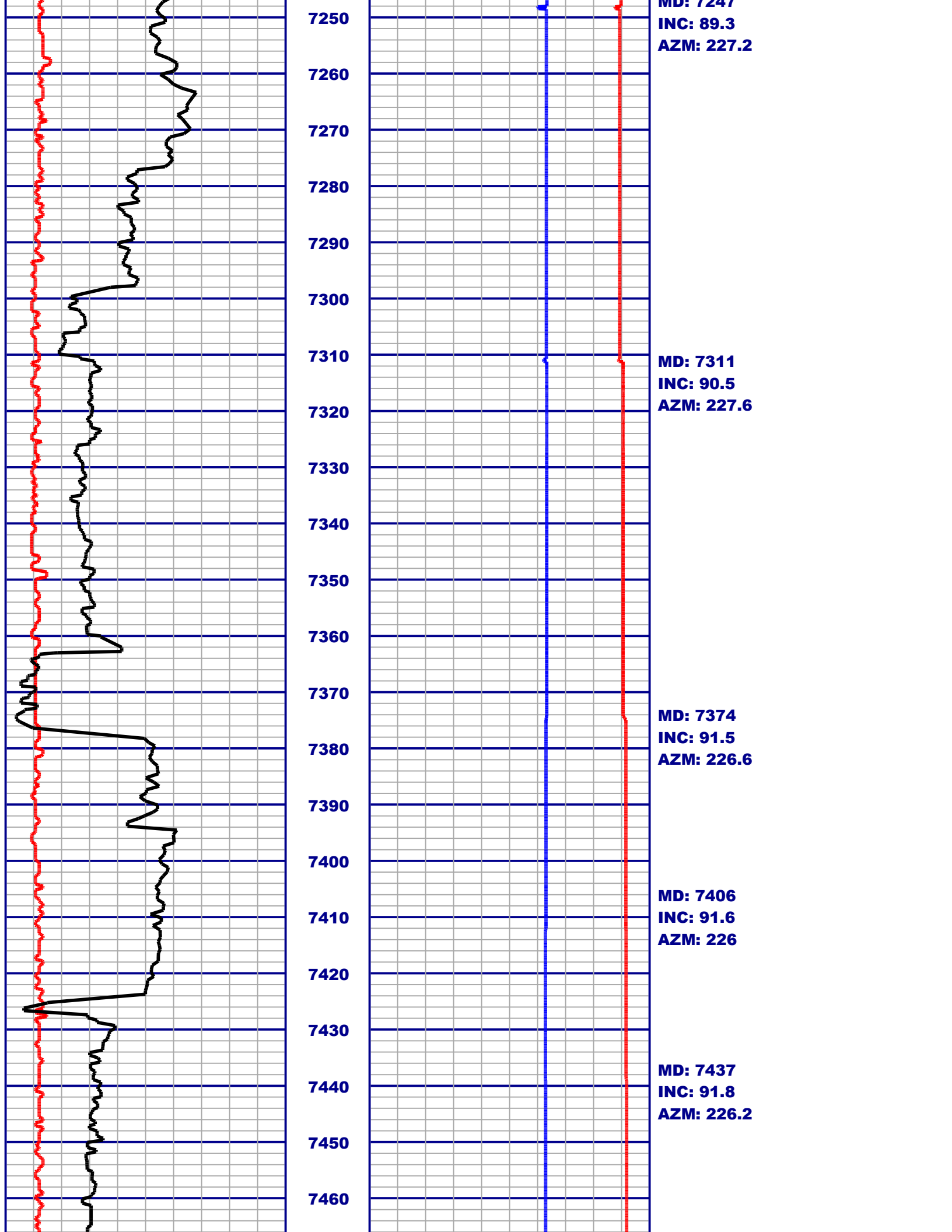
AZM: 231.2

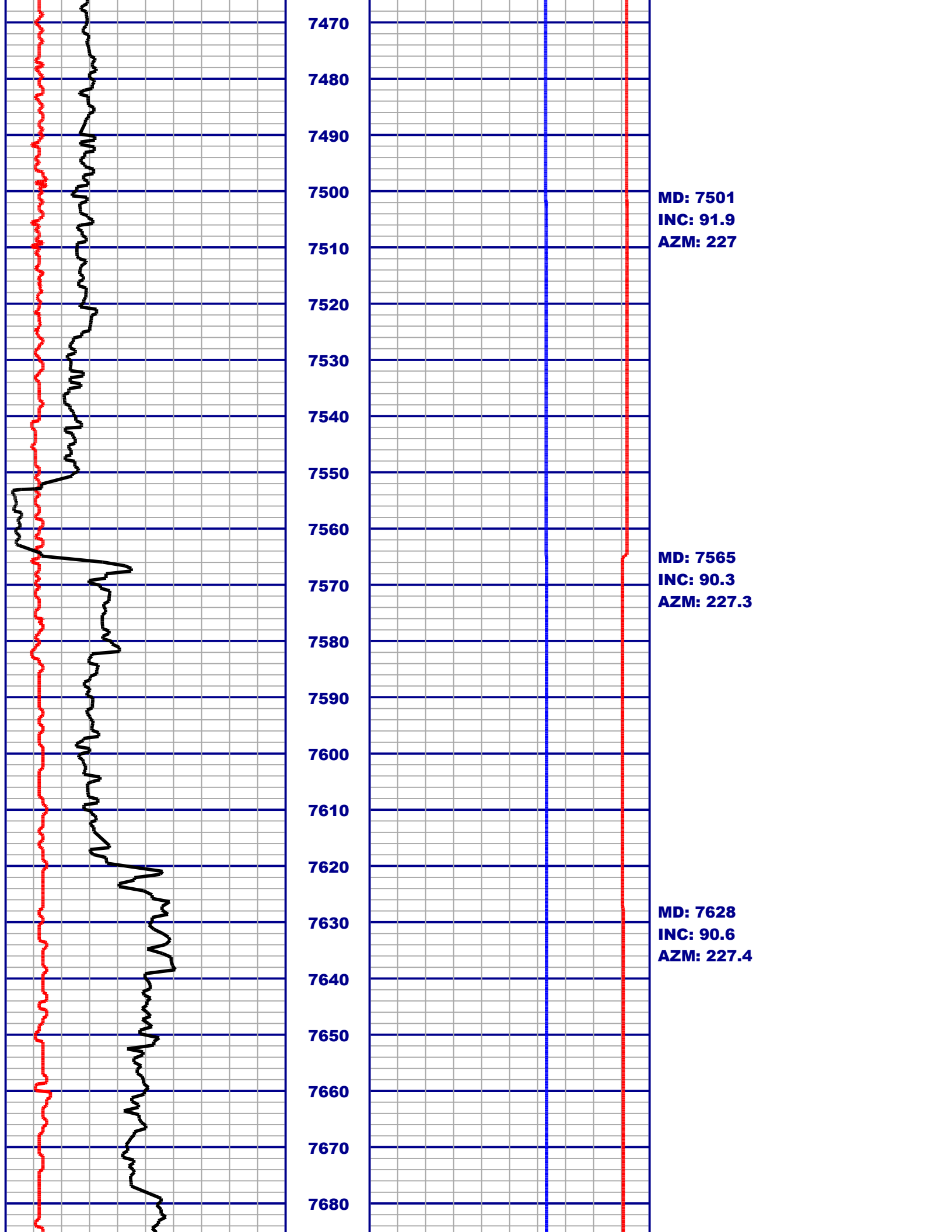
7000

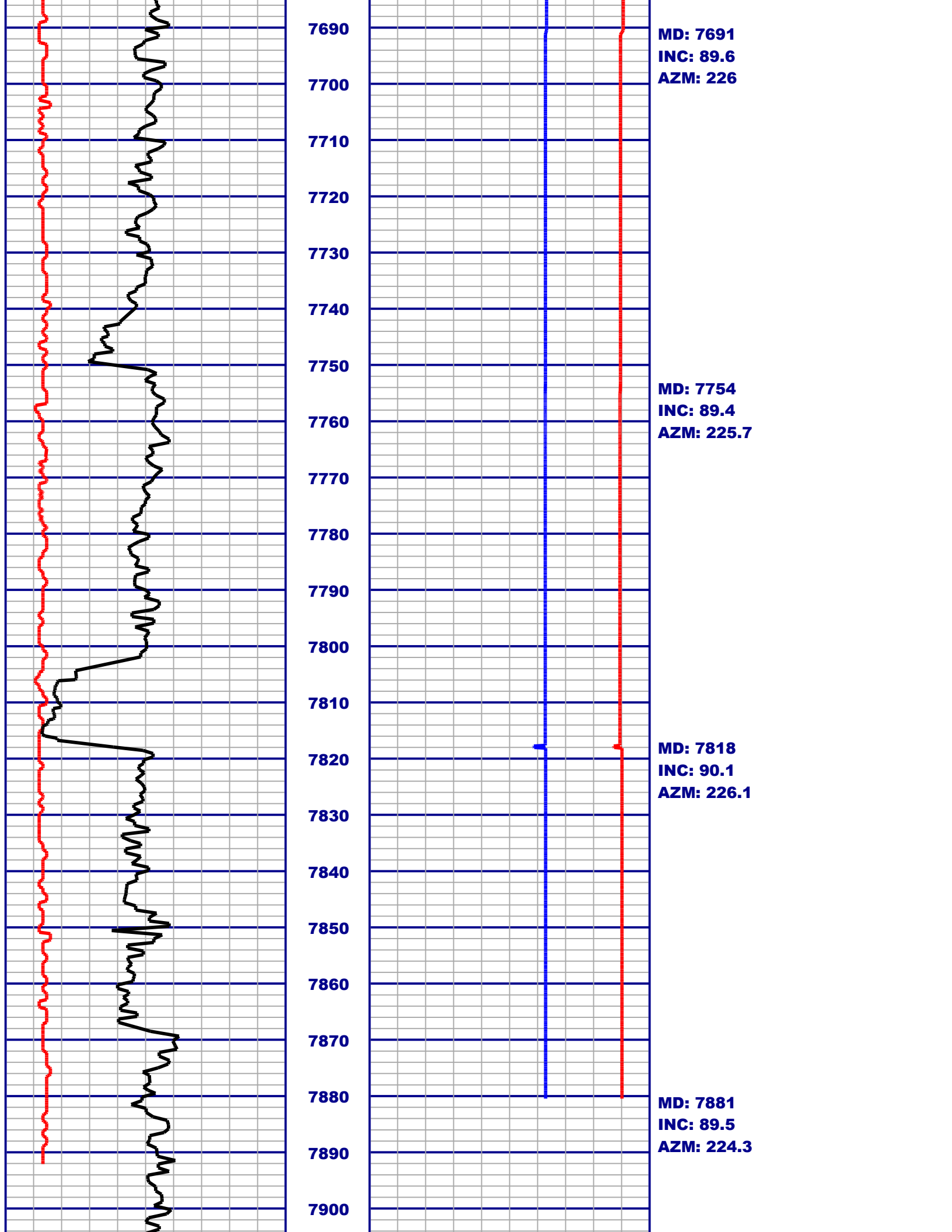
7010

7020











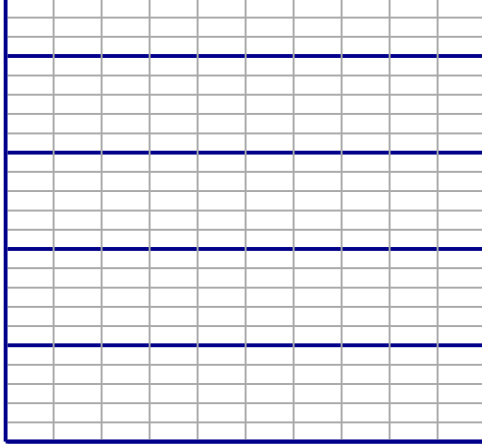
7910

7920

7930

7940

7950



Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Shari Feist Albrecht, Chair
Jay Scott Emler, Commissioner
Pat Apple, Commissioner

Sam Brownback, Governor

July 11, 2014

Kim Reece
Petroflow Energy Corporation
525 S. MAIN ST., STE 1120
TULSA, OK 74103

Re: Plugging Application
API 15-113-21359-01-00
Neustrom 1-4H
NE/4 Sec.04-17S-04W
McPherson County, Kansas

Dear Kim Reece:

This letter is to notify you that the Conservation Division has received your plugging proposal, form CP-1, for the above well and has reviewed the proposal for completeness. The central office will now forward your CP-1 to the district office listed below for review of the proposed plugging method. **Please contact the district office for approval of your proposed plugging method at least five (5) days before plugging the well, pursuant to K.A.R. 82-3-113(b). If a workover pit will be used during the plugging of the well it must be permitted. A CDP-1 form must be filed and approved prior to the use of the pit in accordance with K.A.R. 82-3-600.**

The Conservation Division's review of form CP-1, either in the central or district office, does not include an inquiry into well ownership or the filing operator's legal right to plug the well. This notice in no way constitutes authorization to plug the above well by persons not having legal rights of ownership or interest in the well.

This notice is void after January 07, 2015. The CP-1 filing does not bring the above well into compliance with K.A.R 82-3-111 with regard to the Commission's temporary abandonment requirements.

Sincerely,
Production Department Supervisor

cc: District 2

(316) 630-4000