



60 ARM MIT-MTT
GAMMA RAY
COLLAR LOCATOR

Company WHITING OIL & GAS CORPORATION

Well RAZOR 11-0241H

Field WILDCAT

County WELD State COLORADO

Location: API #: 05-123-36057-00

SENE

SEC 11 TWP 10N RGE 58W

Log Measured From
Drilling Measured From

Elevation

Company	WHITING OIL & GAS CORPORATION
Well	RAZOR 11-0241H
Field	WILDCAT
County	WELD
State	COLORADO

ate	DECEMBER 29, 2012
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Run Number ONE

12,002	5,000
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Bottom Logged Interval	5.000'
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op Log interval	SURFACE

<p>  Yönetim Kurulu </p>	<p>  Yönetim Kurulu </p>
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8.34LB/GAL

Estimated Current Tax	N/A
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Time Well Ready 8:00 AM

Line Logger on Board!!!	10:00 AM
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ocation	FT UPTON CO
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Recorded By	J. RABY
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Barabale Record	
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Run Number	Bit	From	To
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Account Board	Cisco	Watt/E+
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Surface String	9.625"	36#
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Production String	7"	20#
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inner	4.5"	11.6#
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[illegible]

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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, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

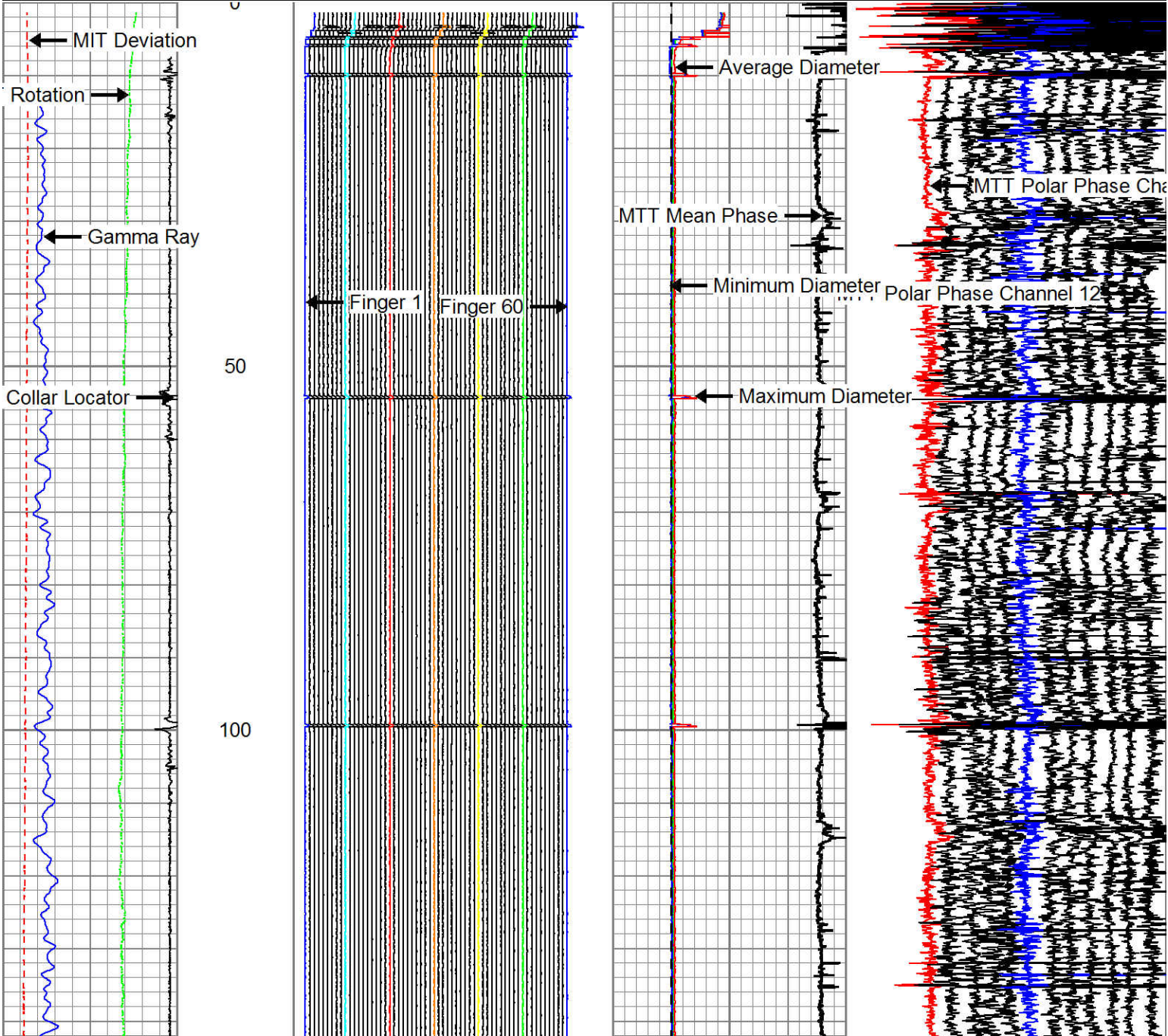
CORRELATED TO CEMENT BOND LOG
POSSIBLE HOLE at 2.806'

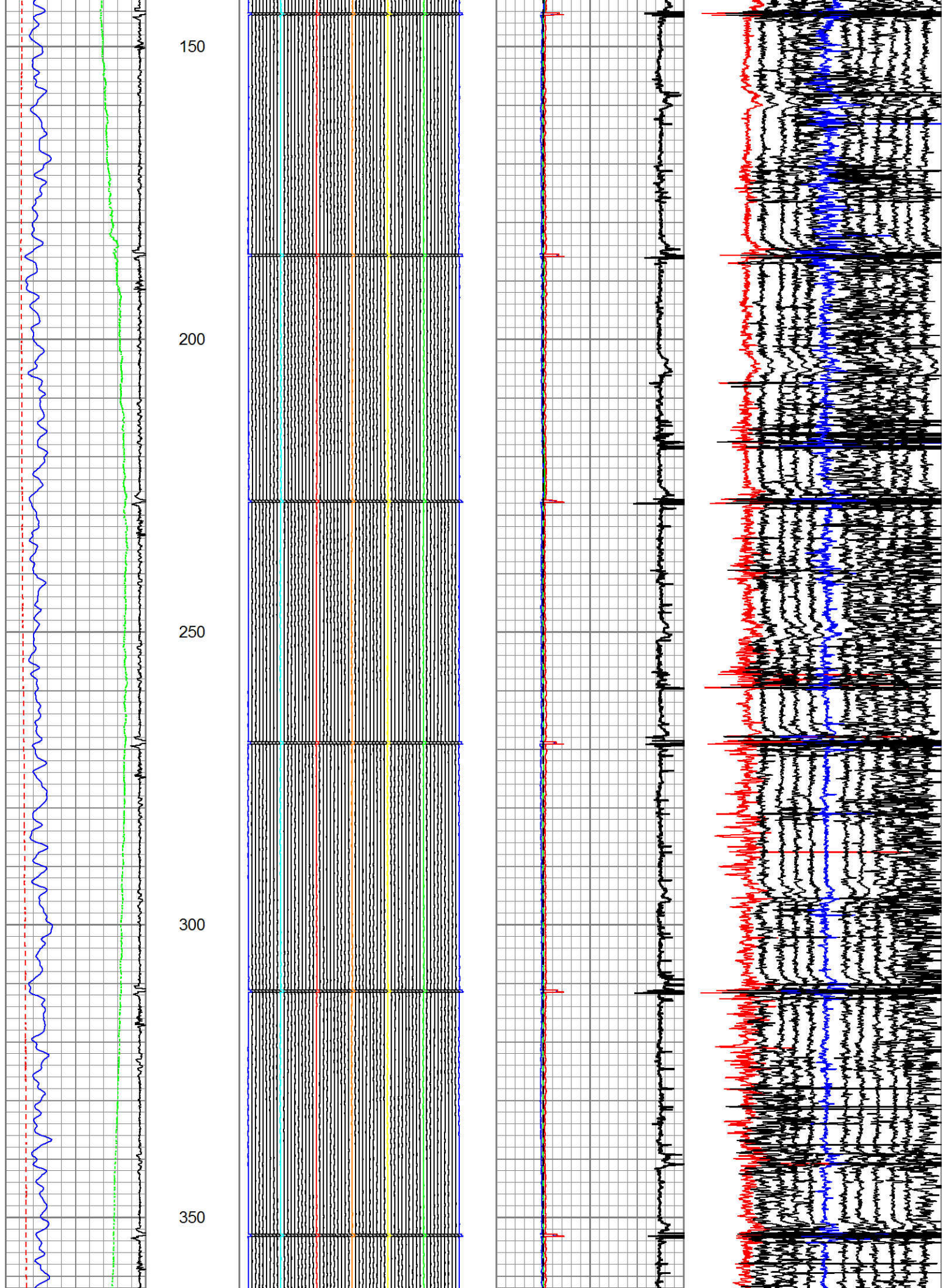
THANK YOU for CHOOSING PURE ENERGY SERVICES
AN FMC TECHNOLOGIES COMPANY

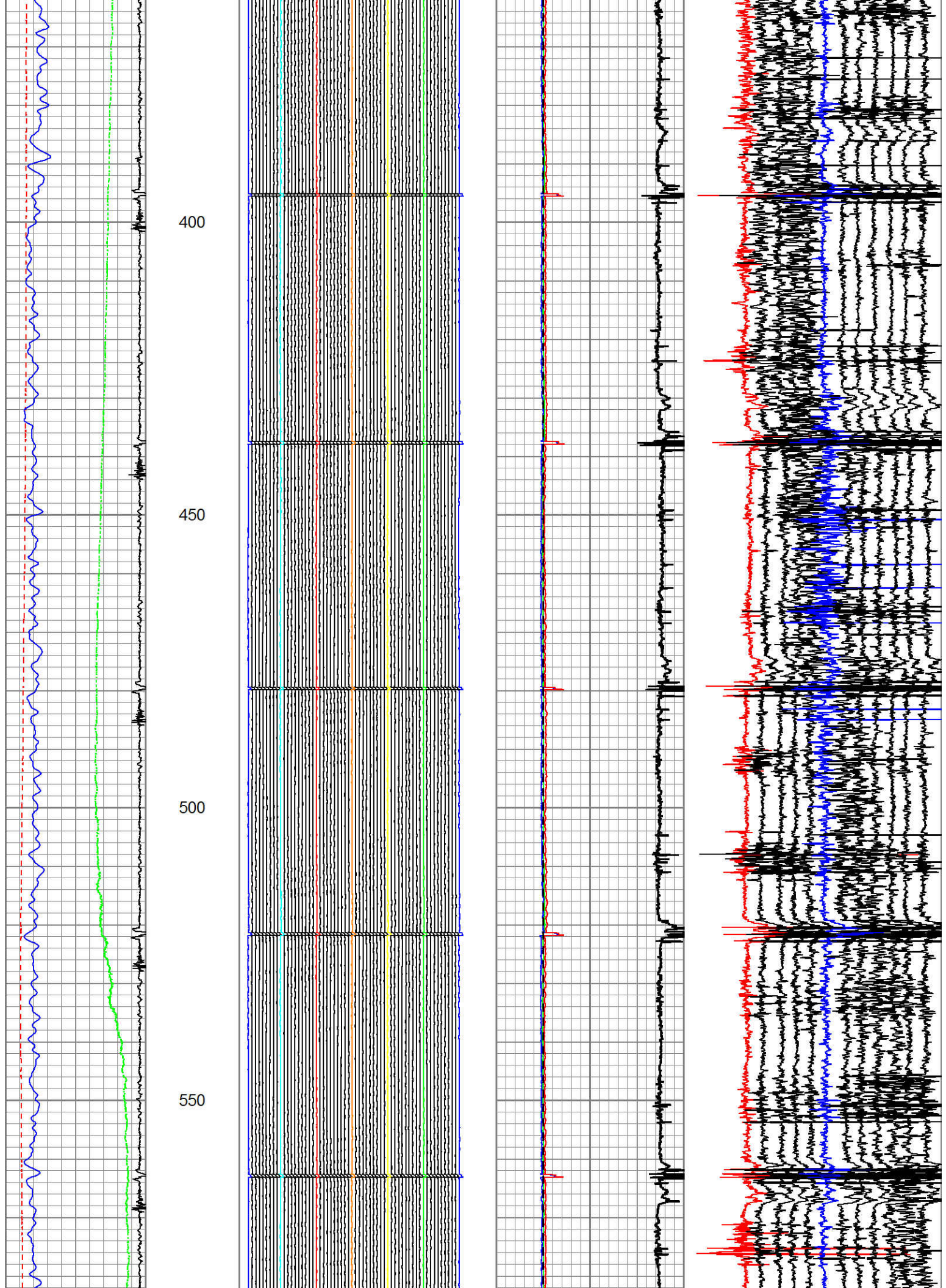


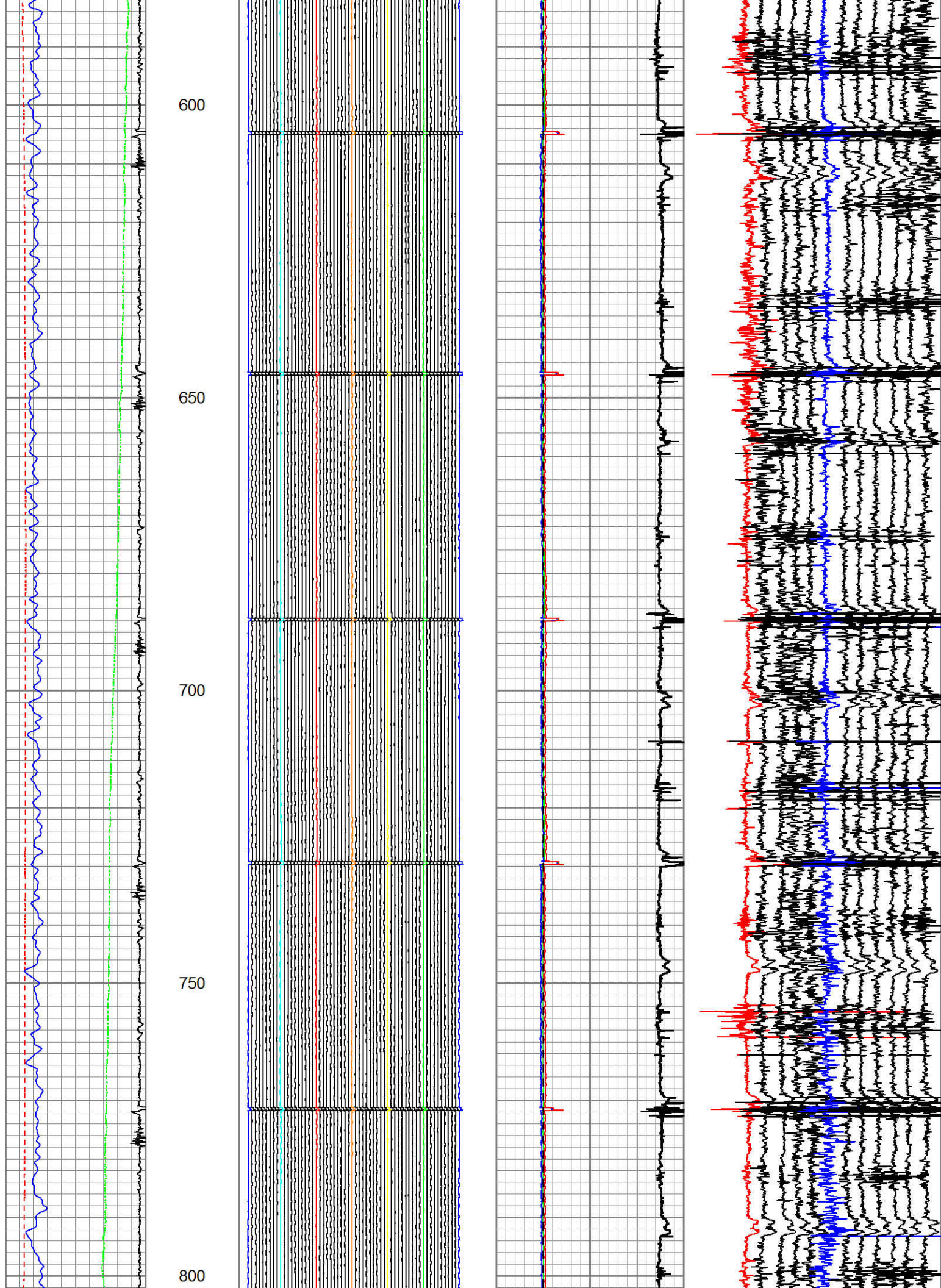
60 ARM CALIPER / MTT

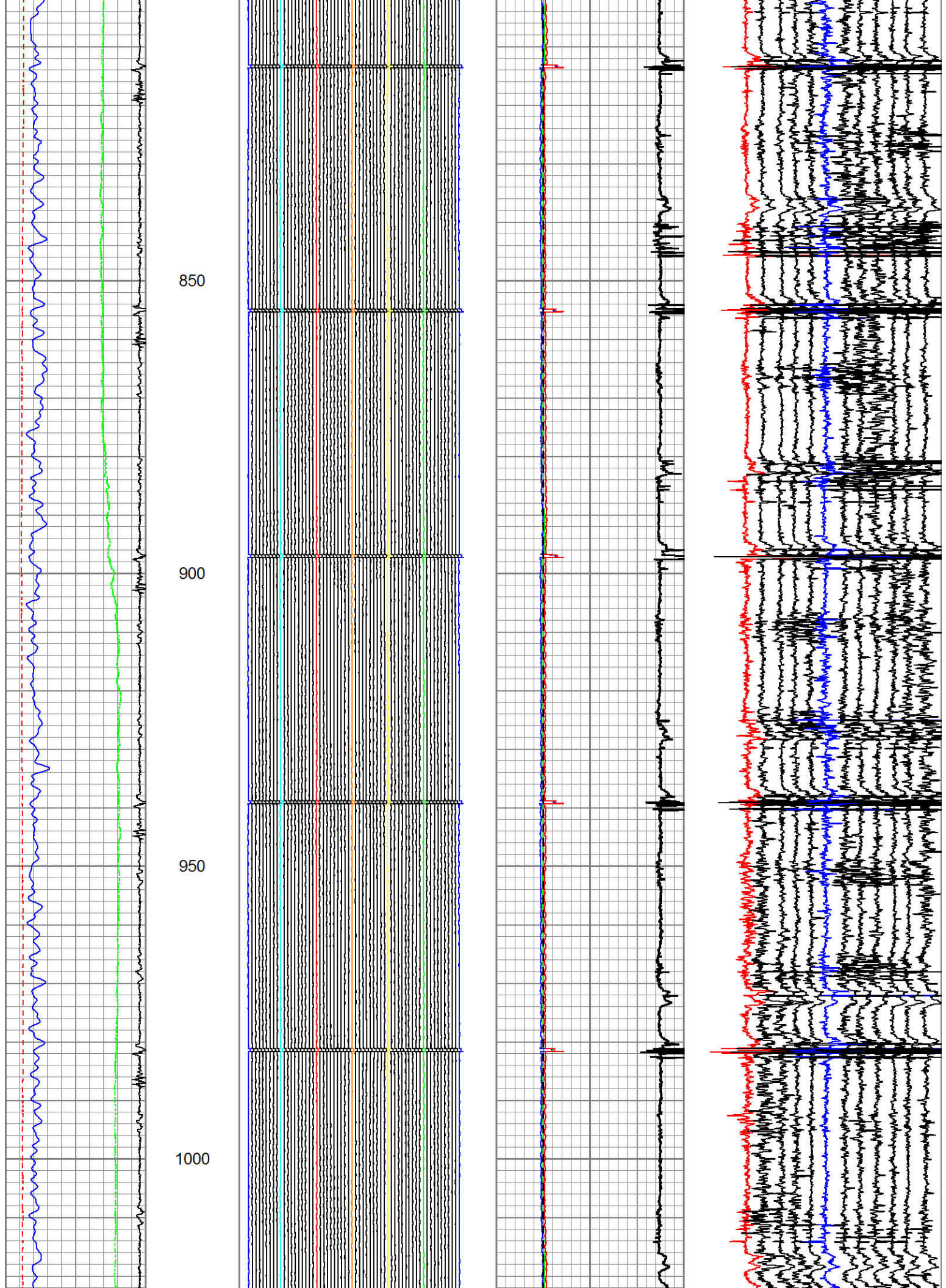
MIT Deviation		2.559	FING01 (in)	16.732	Average Diameter	MTT Mean Phase	1	MTTP01 (rad)	9
-10 (°) 90		0.787	FING10 (in)	14.961	5.184r7.184		0.5	MTTP02 (rad)	8.5
Gamma Ray		-1.181	FING20 (in)	12.992	Minimum Diameter	0 (rad) 4	-4	MTTP11 (rad)	4
0 (GAPI) 120		-5.118	FING40 (in)	9.055	5.184r7.184		-4.5	MTTP12 (rad)	3.5
-1250 CCL 50		-9.055	FING60 (in)	5.118					
MIT Rotation		-7.087	FING50 (in)	7.087	Maximum Diameter				
0 (°) 360					5.184r7.184				
					Nominal Diameter				
					5.184r7.184				

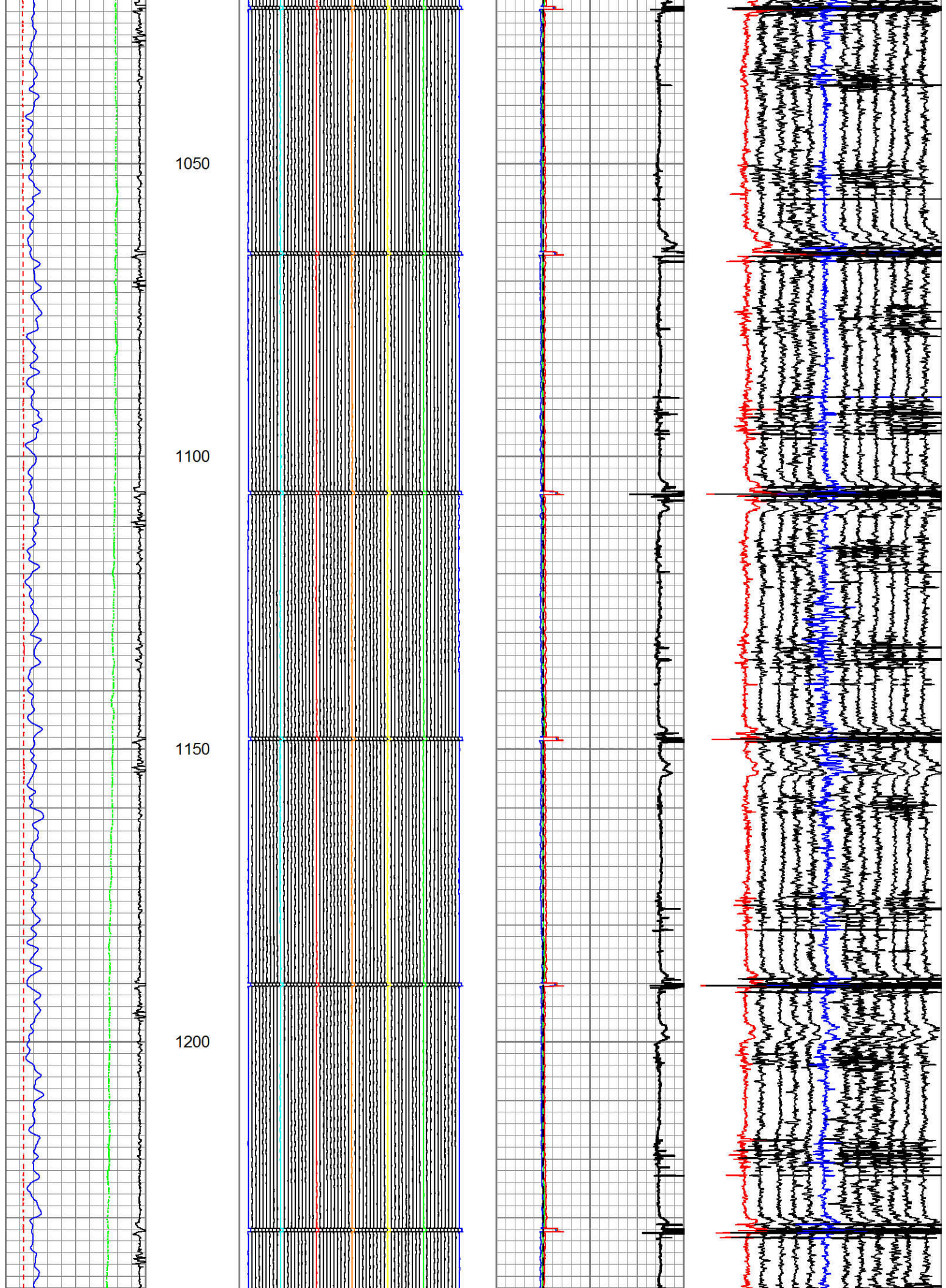


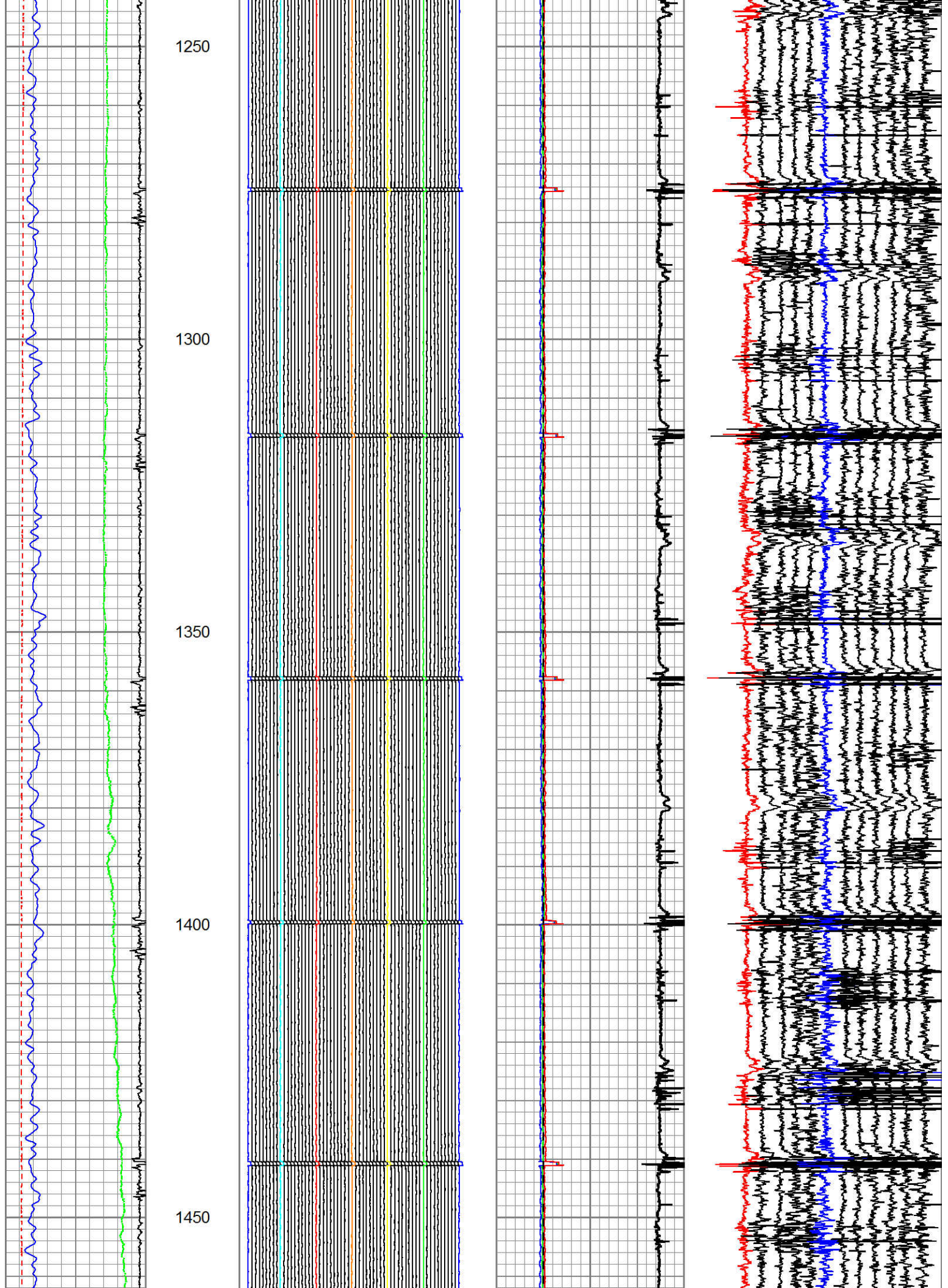


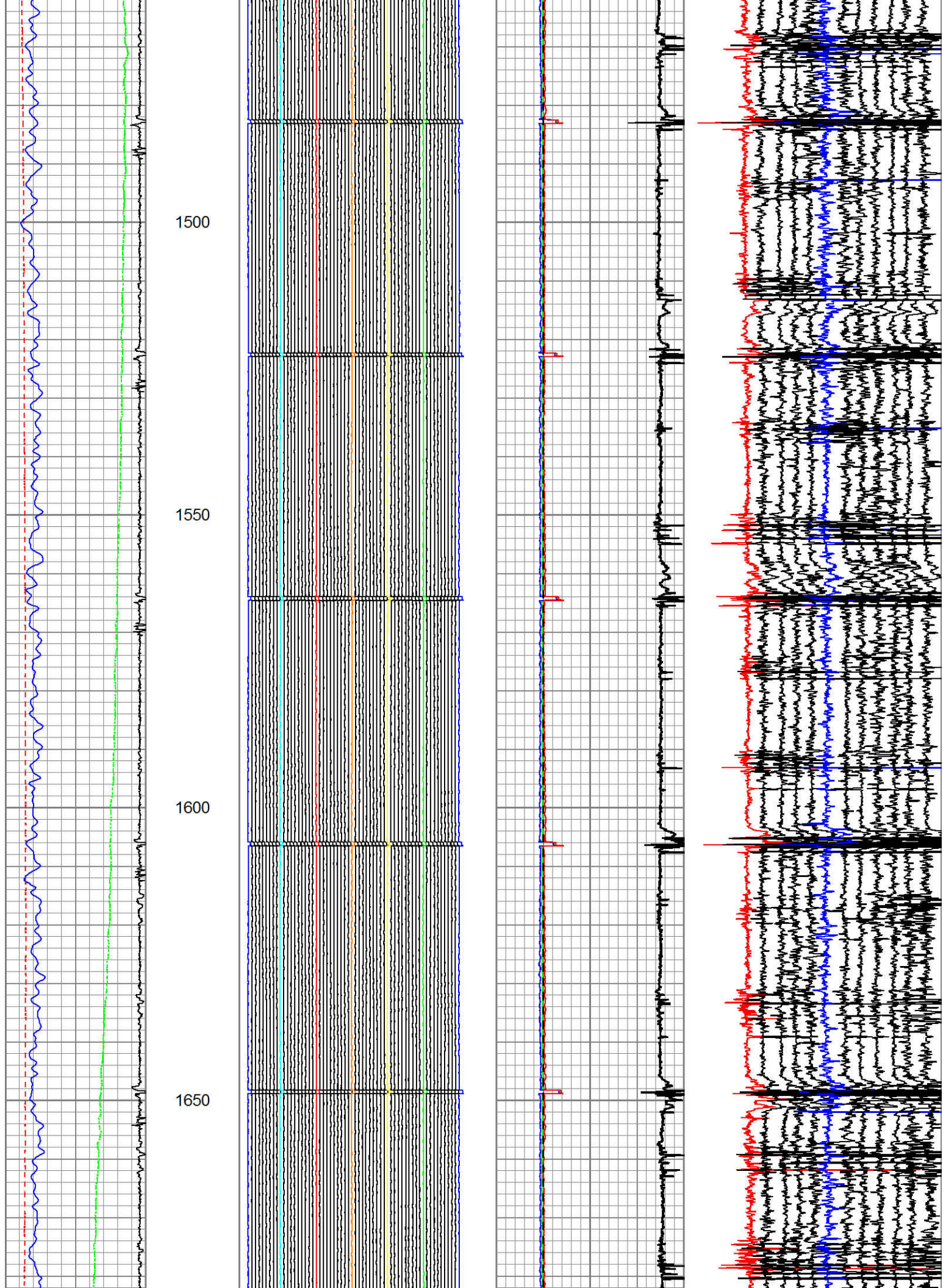


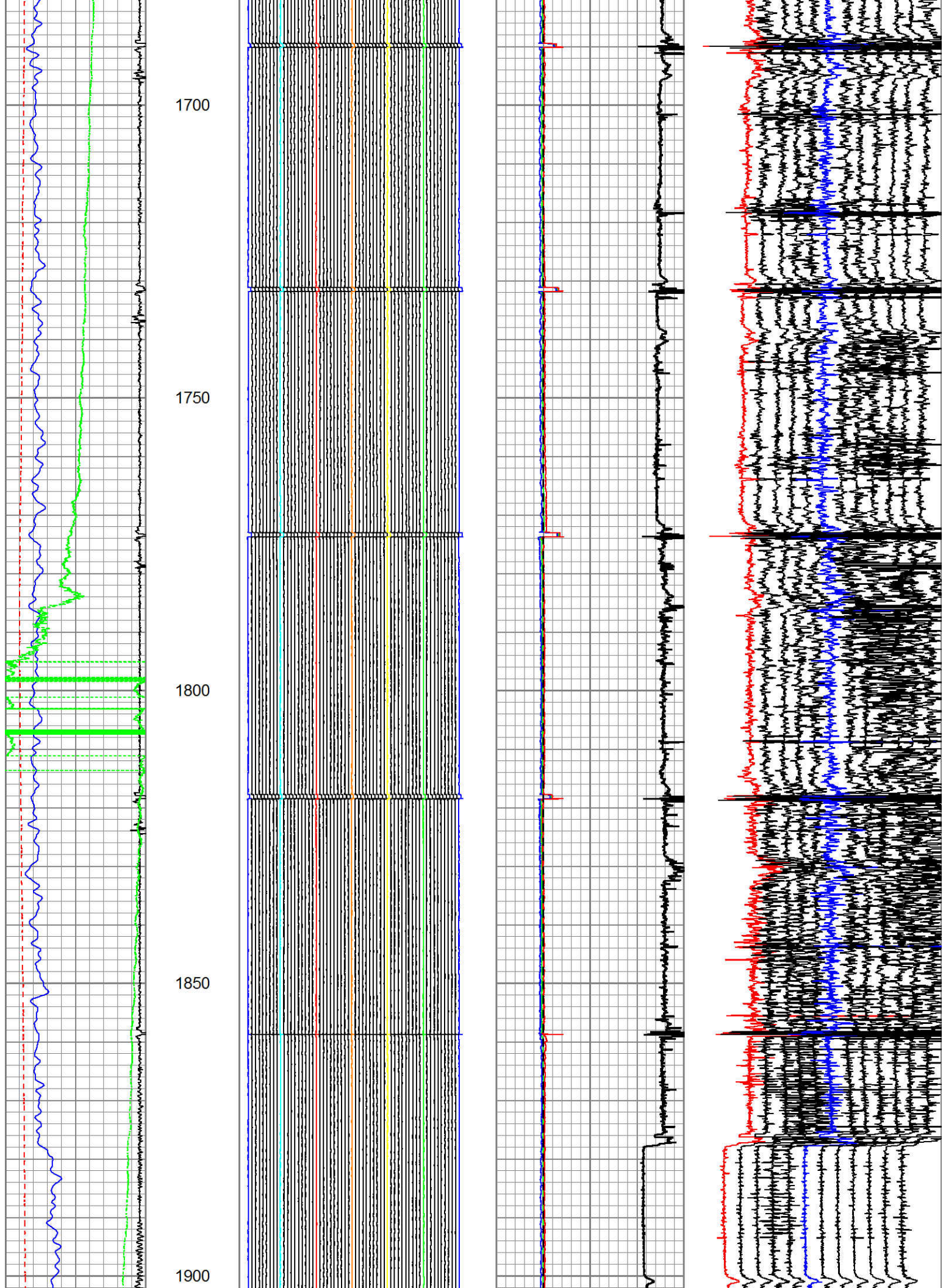


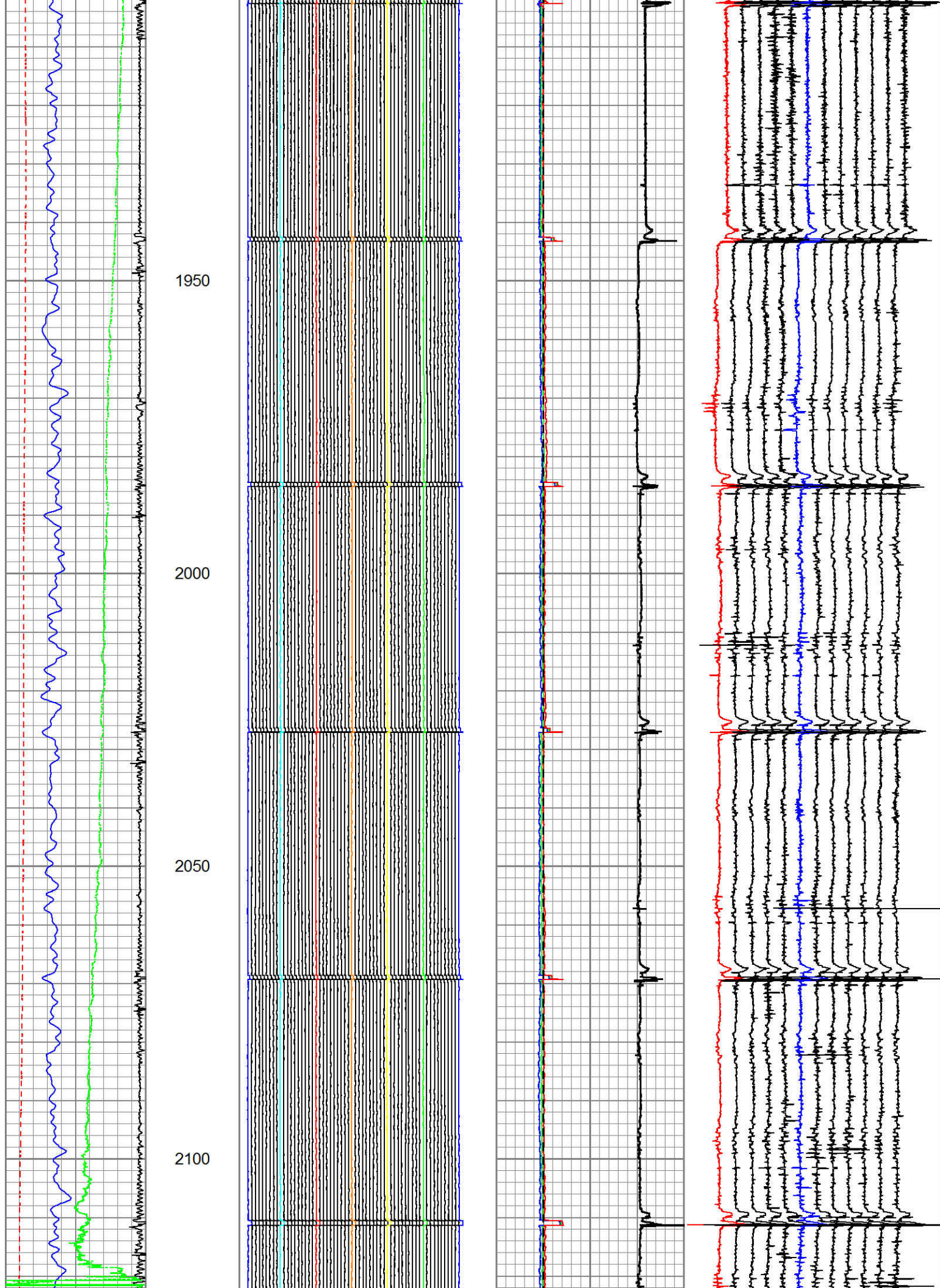


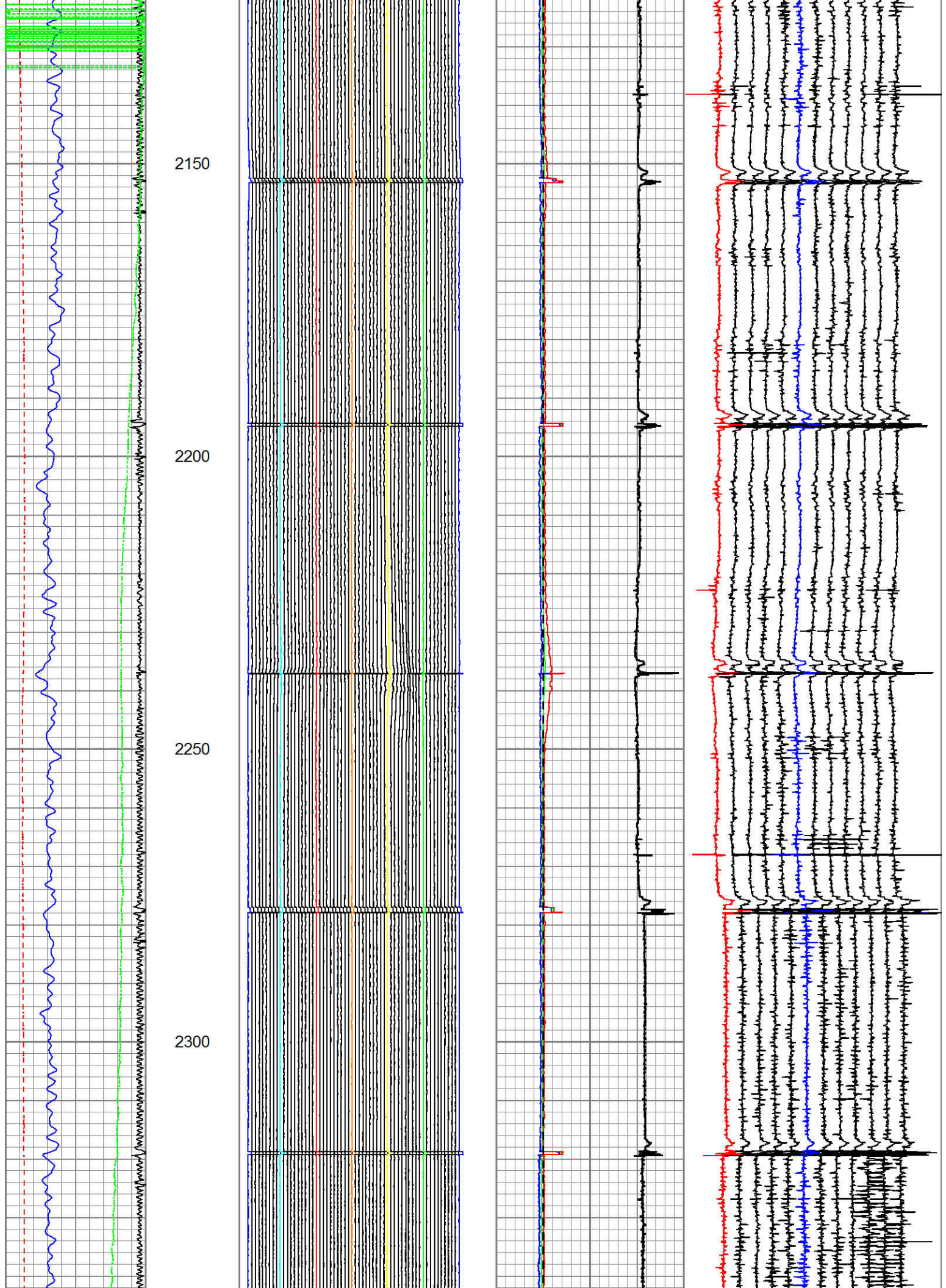


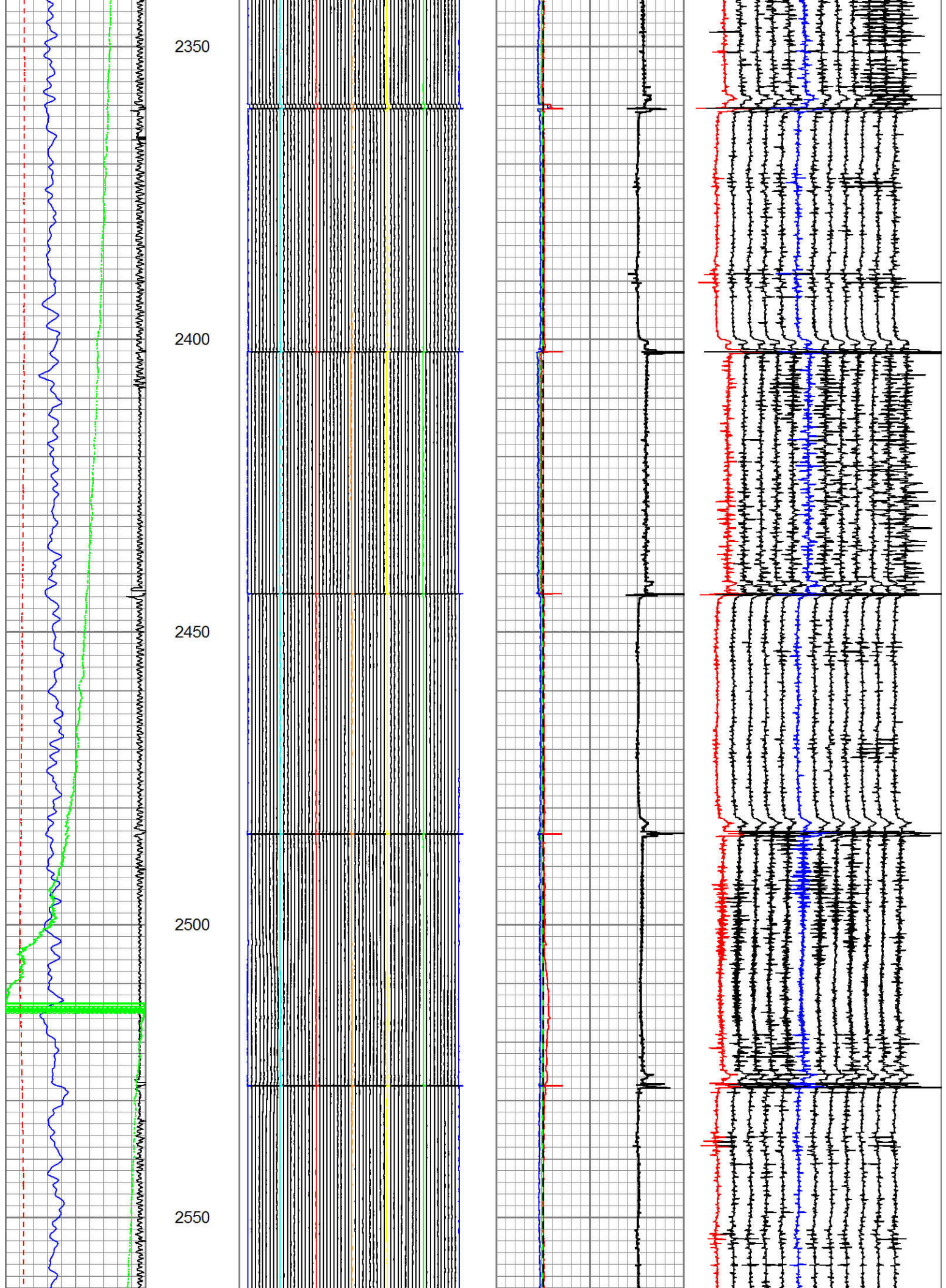


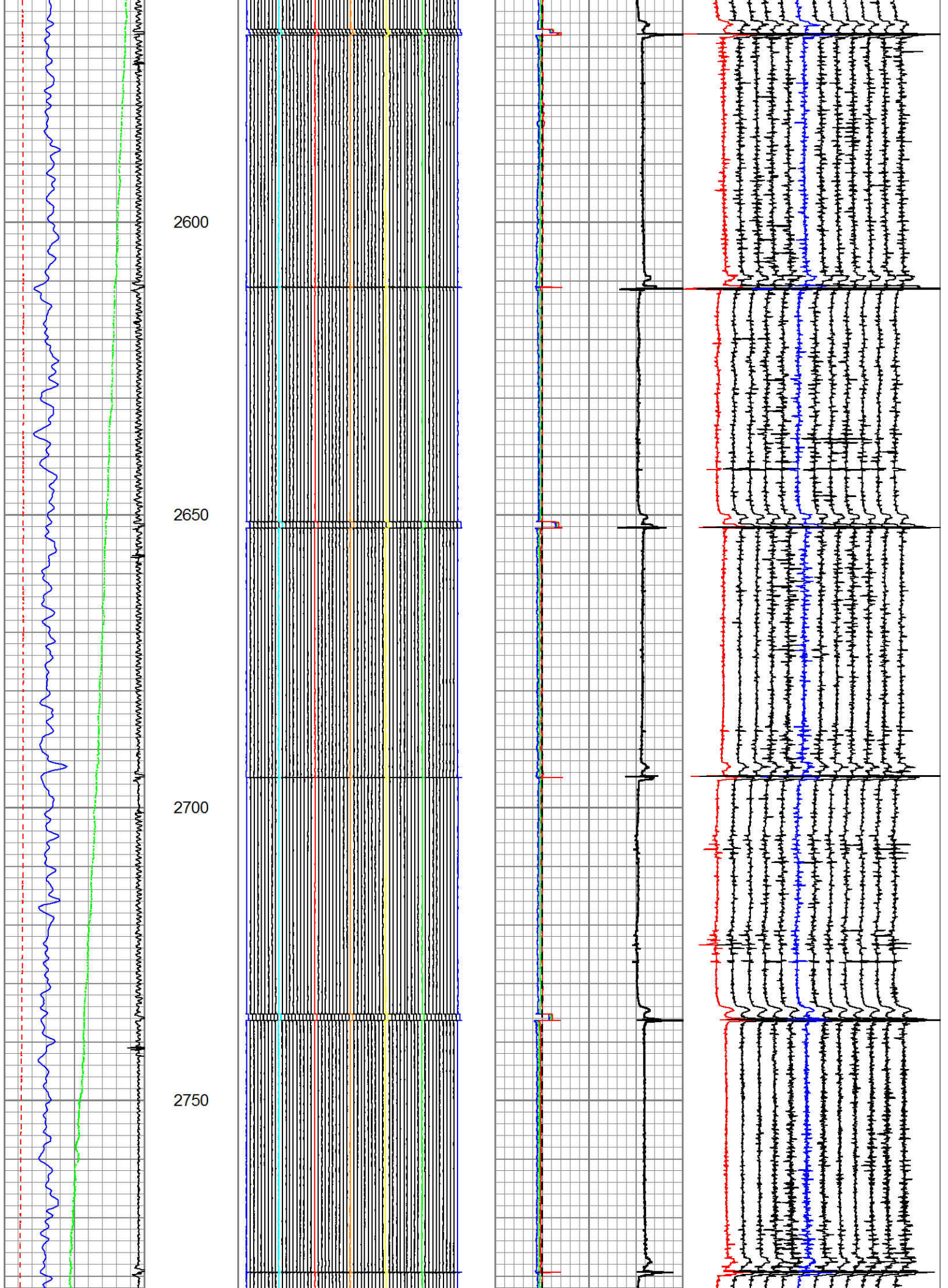


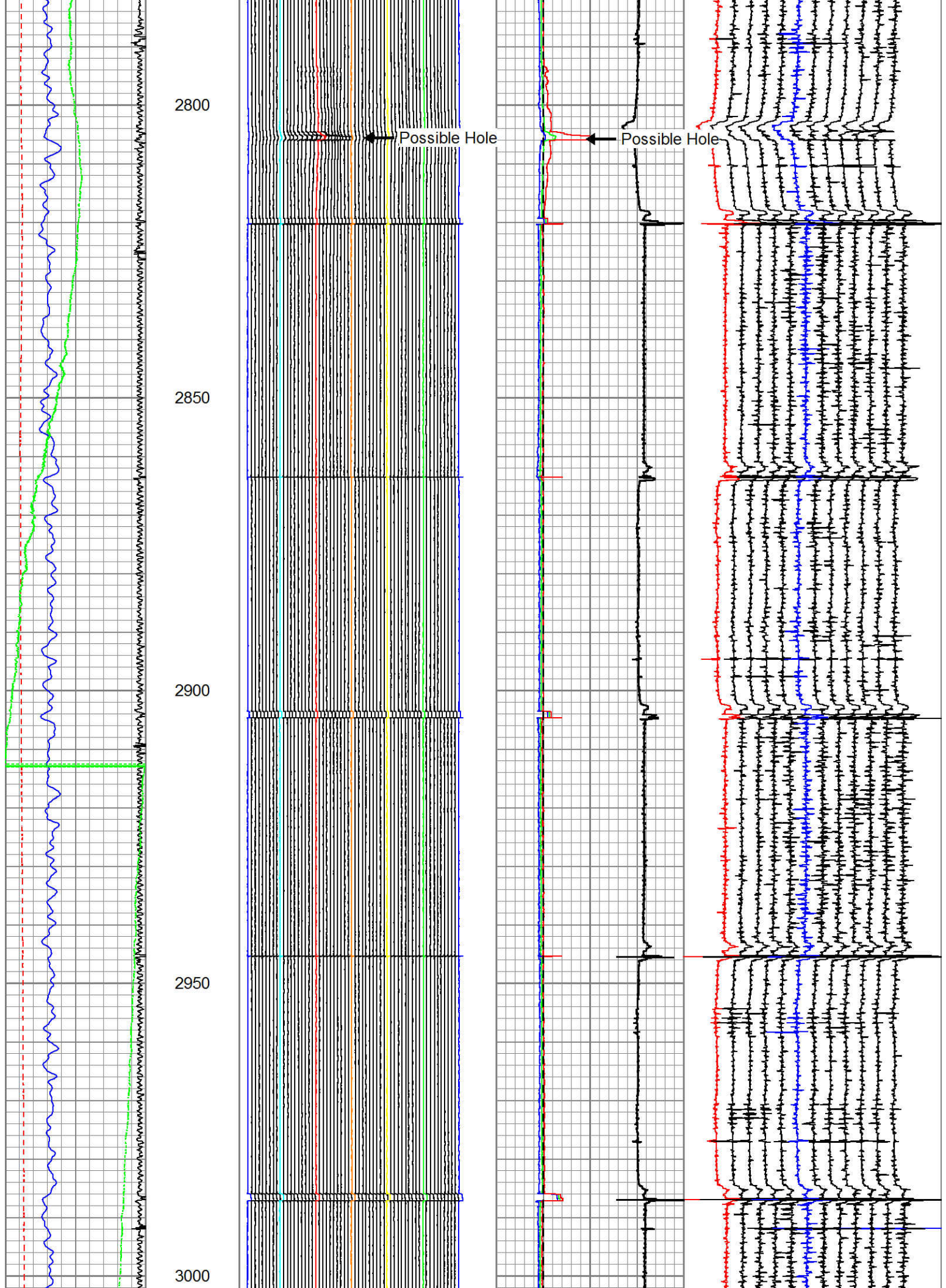


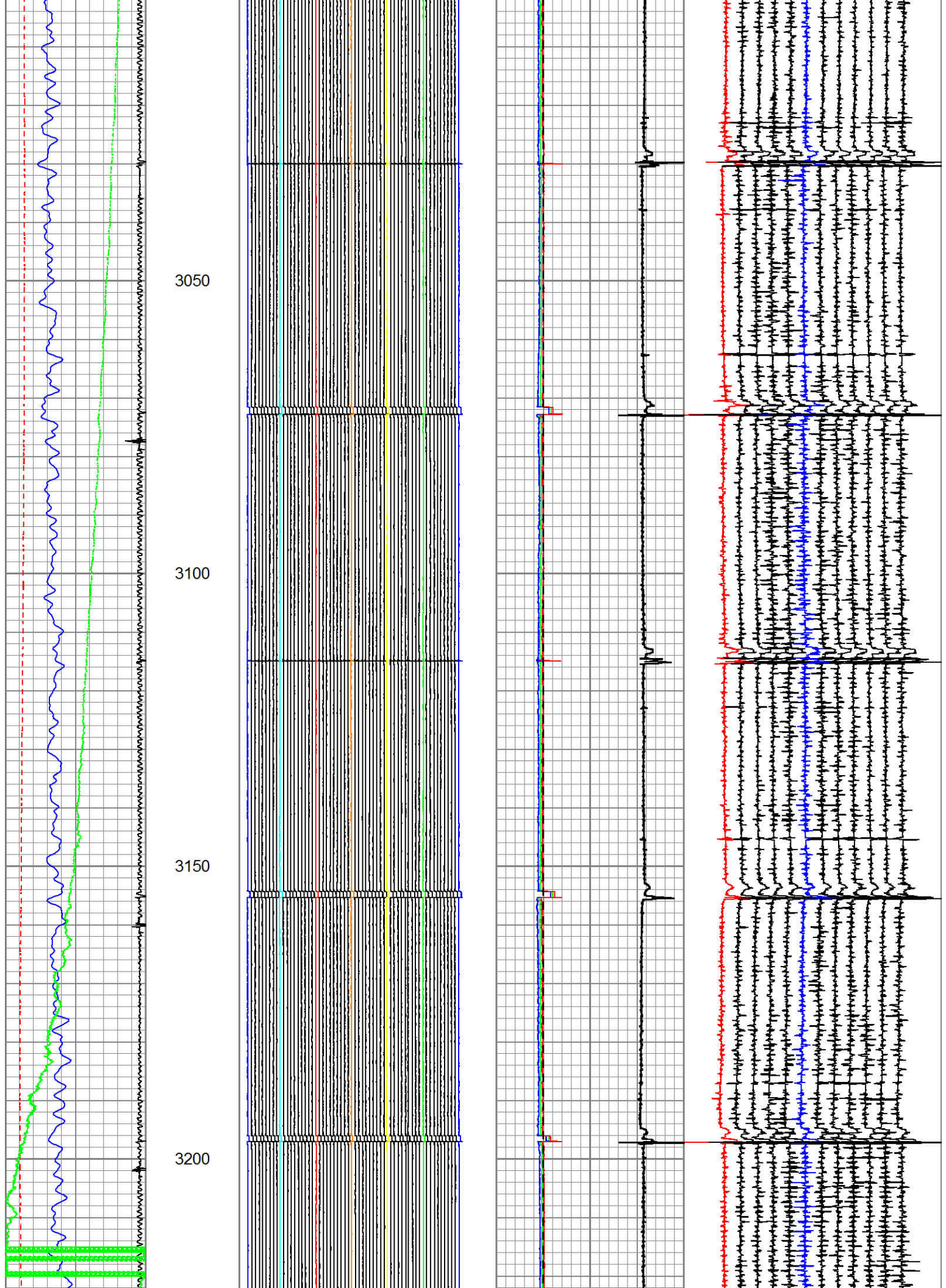


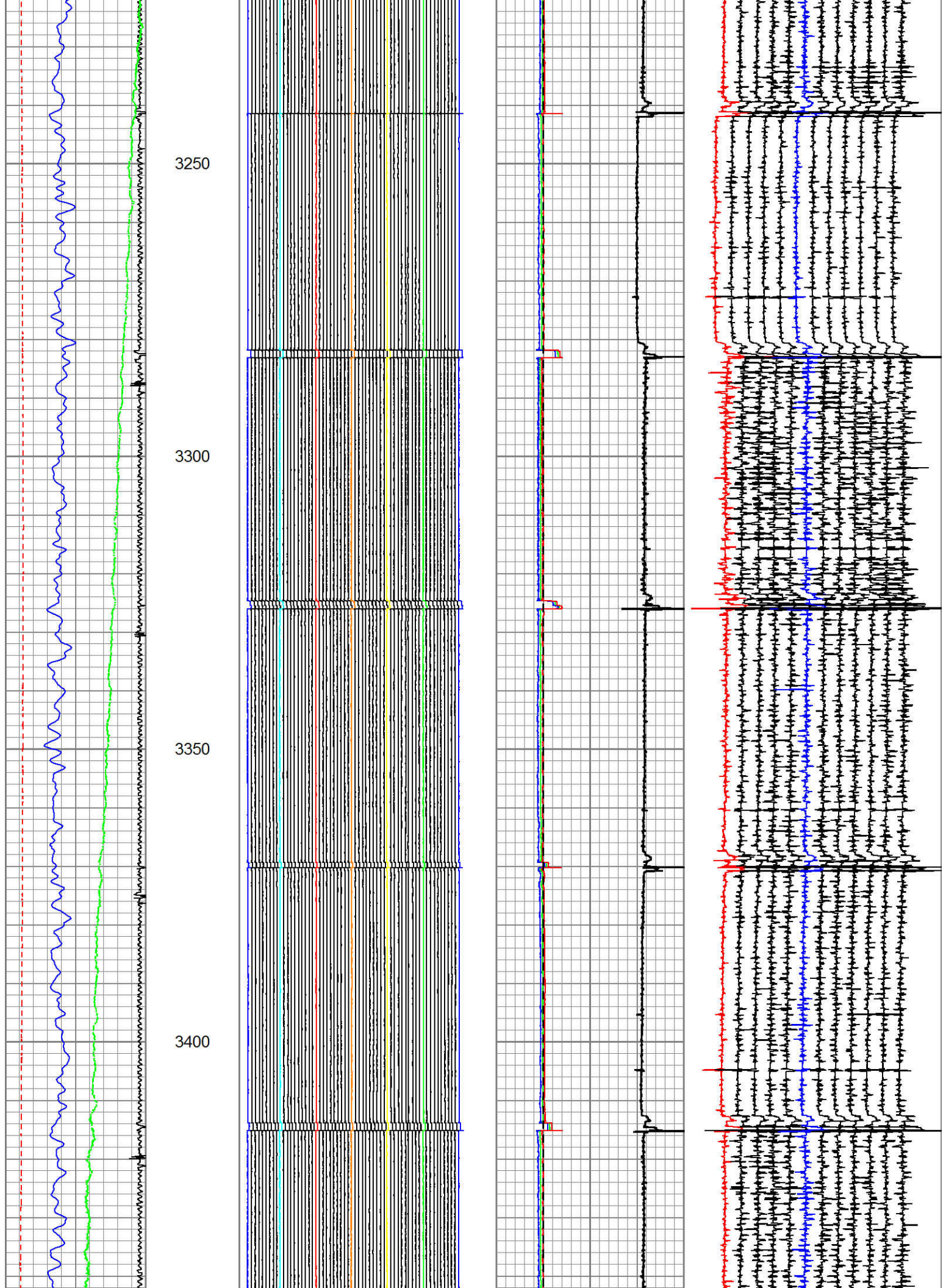


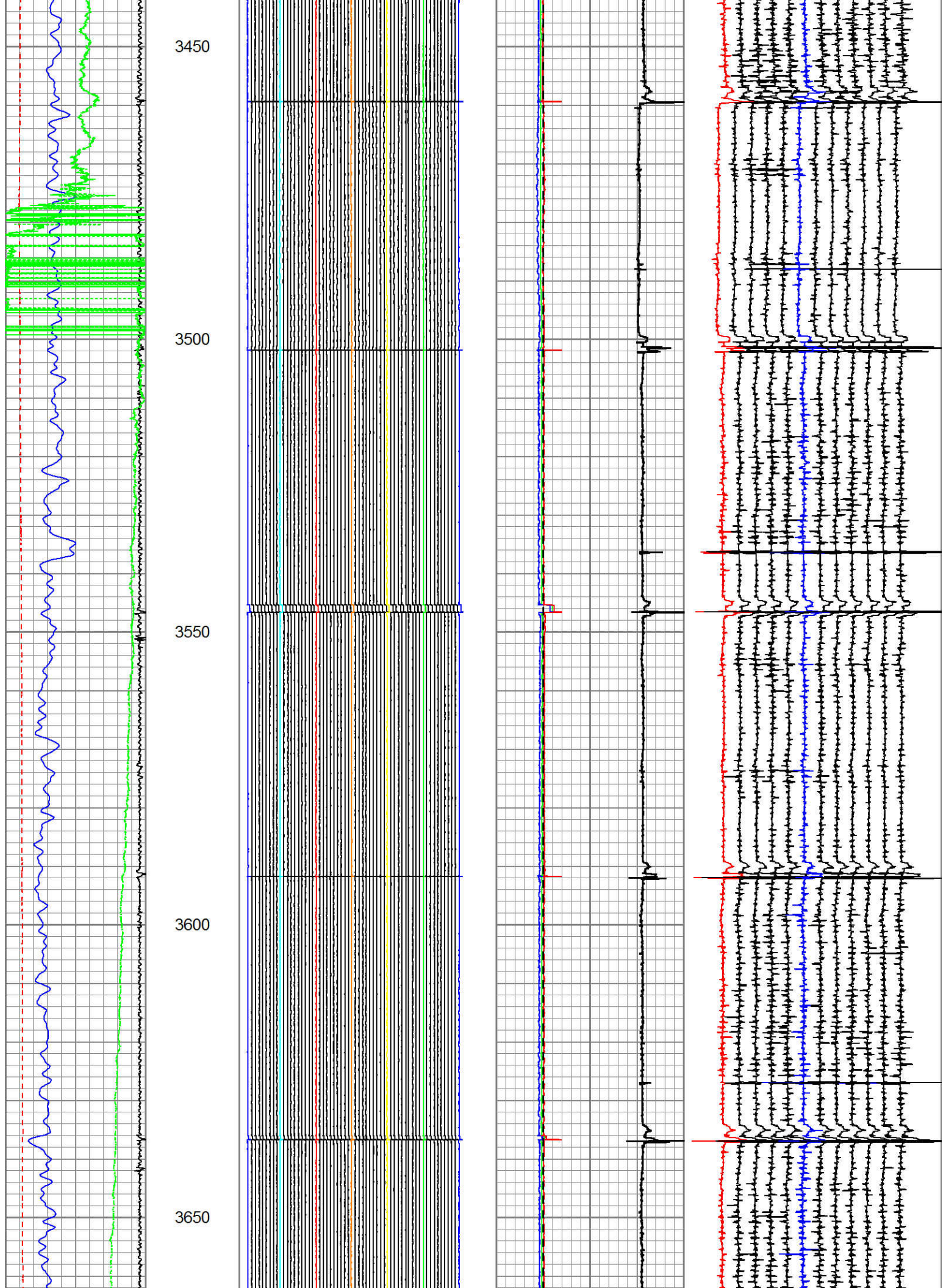


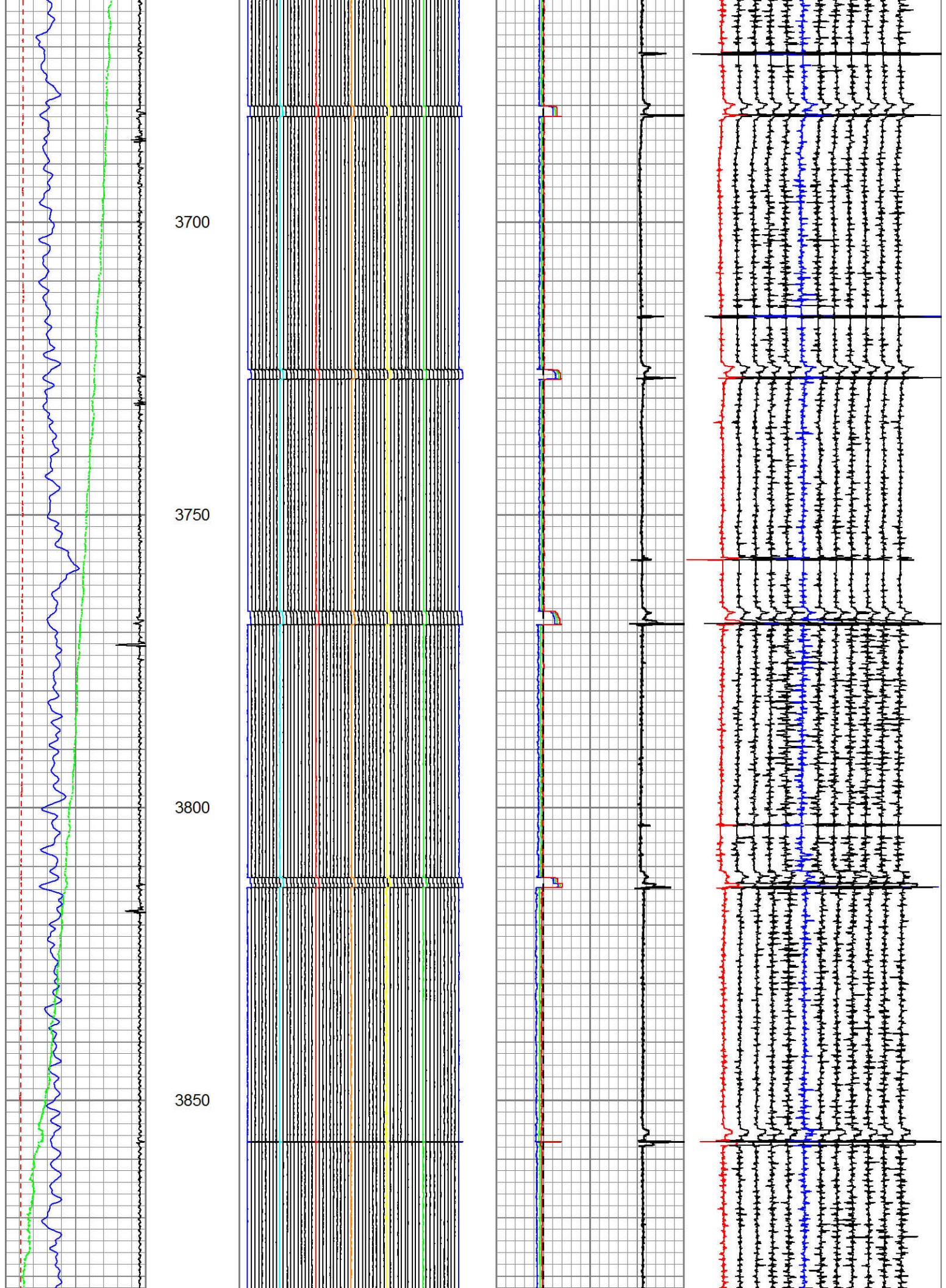


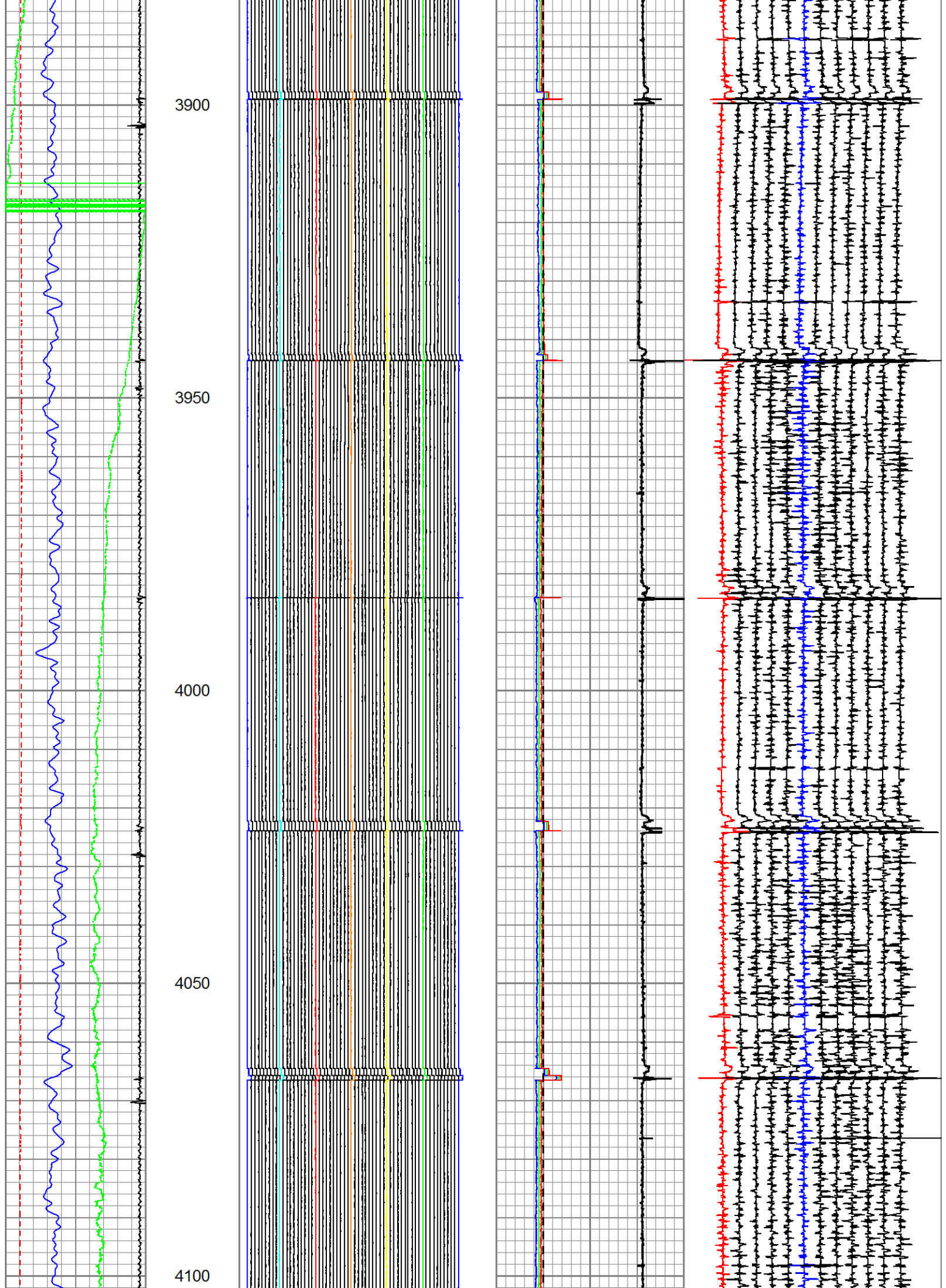


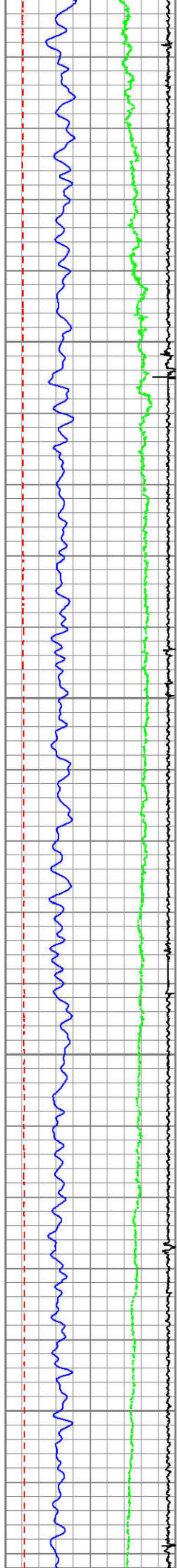










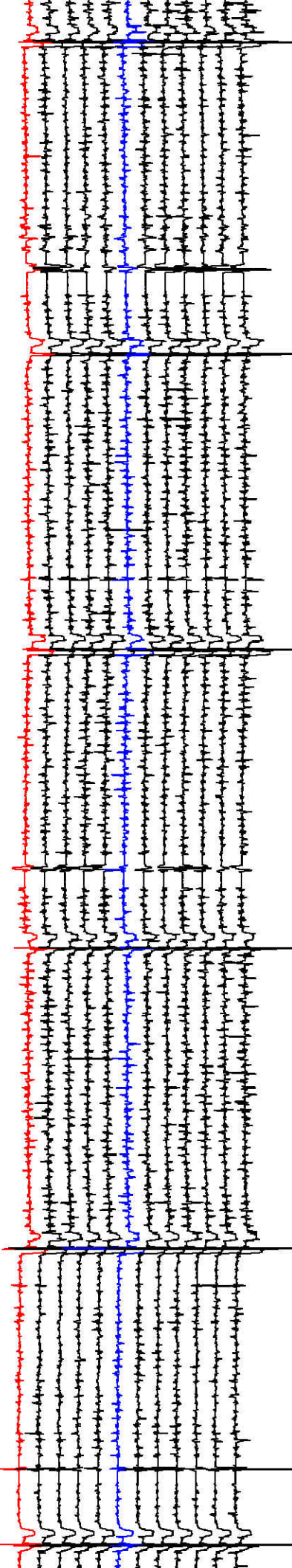
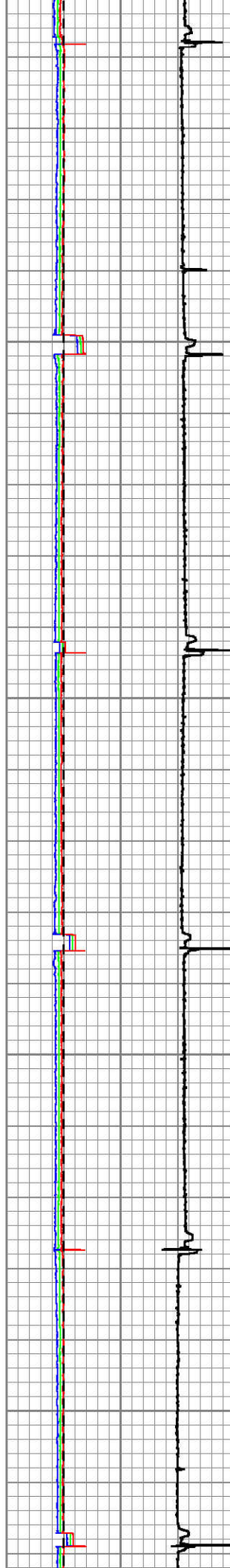
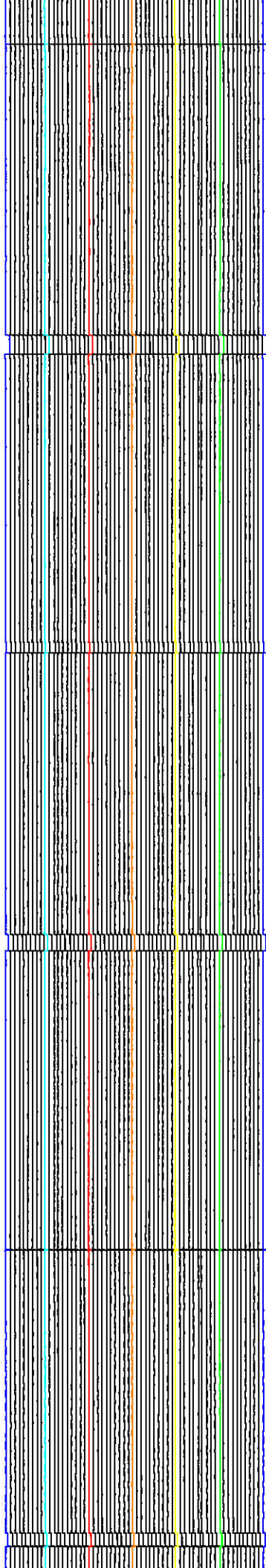


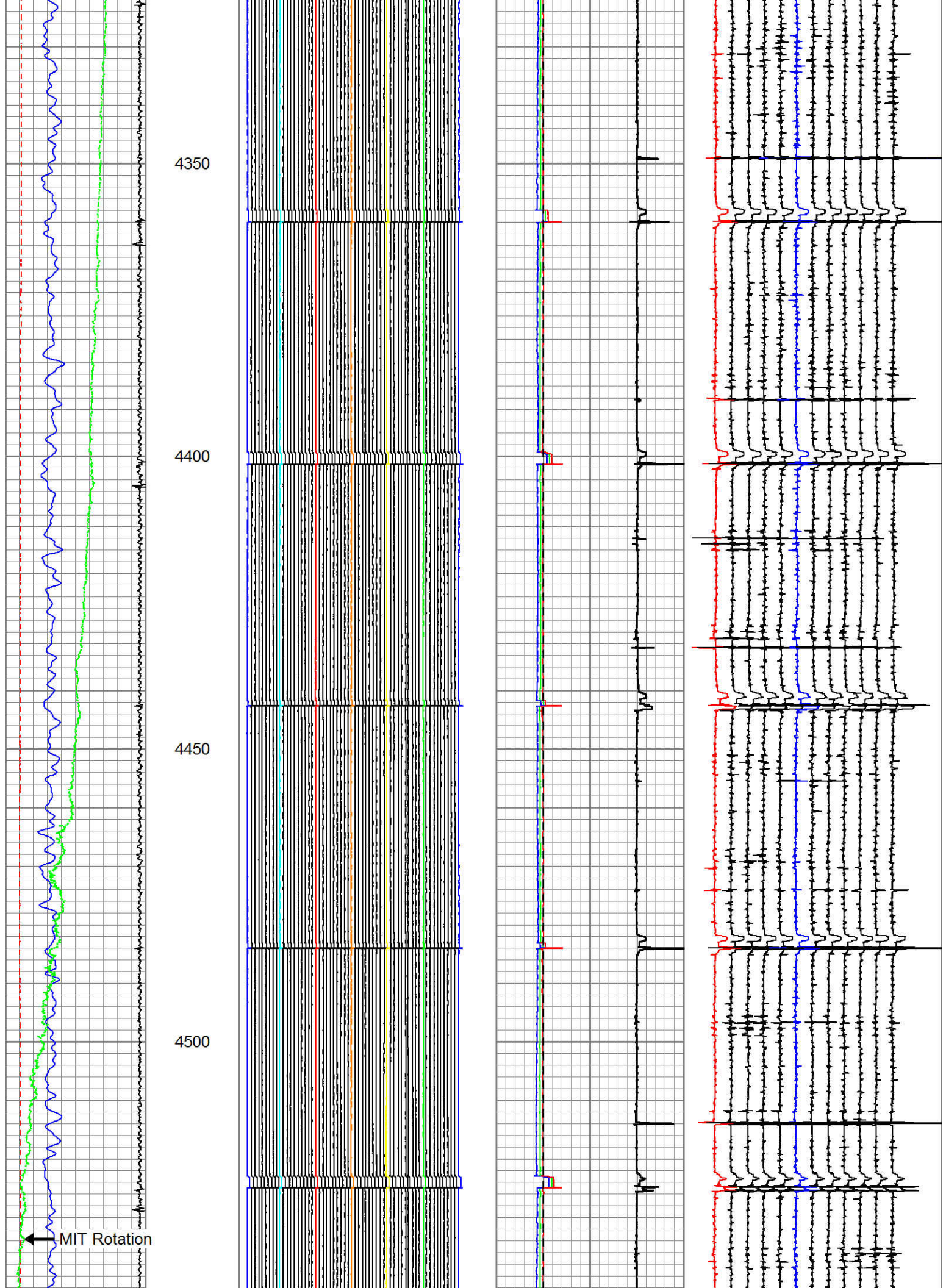
4150

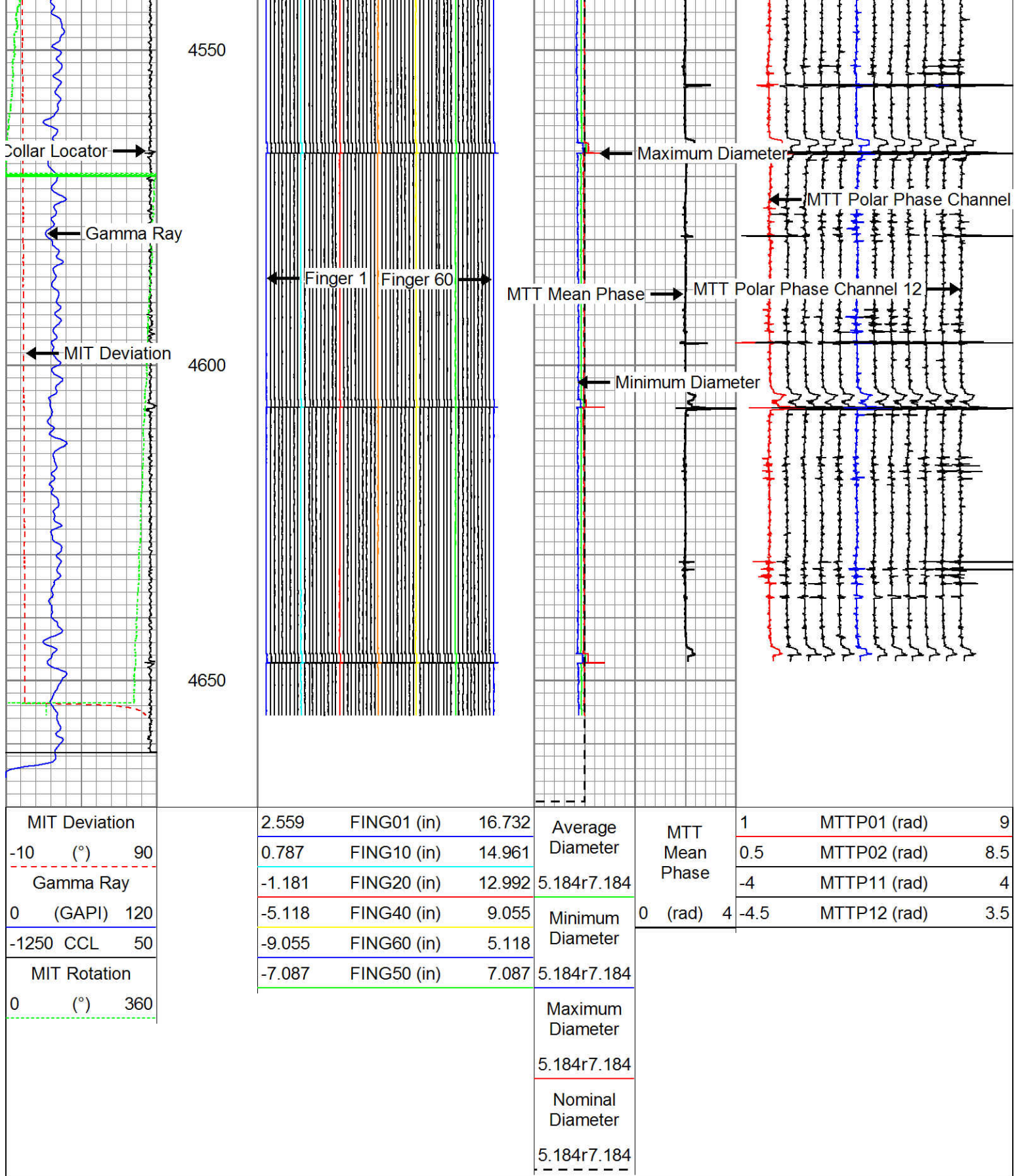
4200

4250

4300

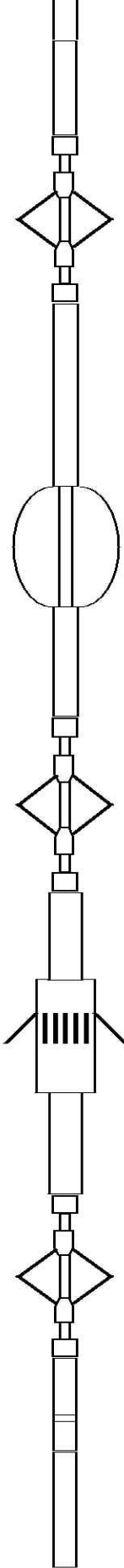







RAZOR 11-0241H

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)

MTT	17.10		CHD-AES (000001) Cable Head	1.04	1.69	2.00
			XTU-001 (000001) Crossover Ultrawire Toolbus to Ultralink	1.58	1.69	6.50
			PRC-034 (000006) Production Roller Centraliser (4 Arm)	2.77	1.69	13.00
			MTT-002 (000001) Magnetic Thickness Tool	6.86	1.69	30.00
			Sondex 4 Arm Sondex Roller Centralizer, 2.75" OD	2.91	2.75	40.00
			MIT-029 (212855) Multifinger Imaging Tool (UW 60F)	5.00	4.00	90.00
			PRC-057 (000007) Production Roller Centraliser (4 Arm)	2.71	2.75	32.00
CCL	2.46		CCL-015 (000001) Casing Collar Locator	1.54	1.69	9.00
GR	0.50					
TSTAMP	0.00					
ITEMPX	0.00					
HVOLTX	0.00		PGR-020 (000001) Production Gamma Ray	1.93	1.69	9.50
<div> <div>Dataset:</div> <div>whiting11-0241h.db: field/well/run/fieldprint</div> </div> <div> <div>Total Length:</div> <div>26.33 ft</div> </div> <div> <div>Total Weight:</div> <div>232.00 lb</div> </div> <div> <div>O.D.</div> <div>4.00 in</div> </div>						

Database File: whiting11-0241h.db
 Dataset Pathname: run/fieldprint
 Dataset Creation: Sat Dec 29 14:12:05 2012

Gamma Ray Calibration Report

Serial Number: 000001
 Tool Model: 020
 Performed: Sun Jun 13 13:33:21 1993

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 1.0000 GAPI/cps

Multi-finger Imaging Tool Calibration Report

Serial Number: 212855
 Number of Fingers: 60
 Tool Model: 029

Inclinometer Calibration Report

Performed: Thu Jun 28 18:59:03 2012
 Calibration Angle: 45

	Inc X	Inc Y
Vertical:	1991	1993
Finger 1 up:	1799	2254
Finger 46 up:	1742	1800
Finger 31 up:	2191	1736
Finger 16 up:	2255	2195
Sensitivity ratio:	0.991105	
X-axis angle:	232.644	
Deviation const.:	322.813	

Finger Calibration Report

Performed: Sun Dec 09 12:13:26 2012

Ring size:	6		7		8		9		10
(in)		Sens		Sens		Sens		Sens	
Finger 01:	1194	234.0	1428	237.0	1665	251.0	1916	245.0	2161
Finger 02:	1217	222.0	1439	231.0	1670	242.0	1912	239.0	2151
Finger 03:	1245	231.0	1476	241.0	1717	246.0	1963	247.0	2210
Finger 04:	1324	230.0	1554	240.0	1794	238.0	2032	238.0	2270
Finger 05:	1149	220.0	1369	239.0	1608	240.0	1848	248.0	2096
Finger 06:	1236	233.0	1469	243.0	1712	241.0	1953	257.0	2210
Finger 07:	1220	227.0	1447	243.0	1690	239.0	1929	256.0	2185
Finger 08:	1411	238.0	1649	240.0	1889	234.0	2123	253.0	2376
Finger 09:	1369	239.0	1608	248.0	1856	240.0	2096	269.0	2365
Finger 10:	1176	210.0	1386	223.0	1609	218.0	1827	245.0	2072
Finger 11:	1218	219.0	1437	233.0	1670	225.0	1895	258.0	2153
Finger 12:	1348	236.0	1584	243.0	1827	234.0	2061	266.0	2327
Finger 13:	1122	215.0	1337	233.0	1570	225.0	1795	264.0	2059
Finger 14:	1222	213.0	1435	220.0	1655	211.0	1866	250.0	2116
Finger 15:	1383	233.0	1616	242.0	1858	232.0	2090	273.0	2363
Finger 16:	1409	240.0	1649	249.0	1898	225.0	2123	267.0	2390
Finger 17:	1410	182.0	1592	190.0	1782	183.0	1965	219.0	2184
Finger 18:	1233	225.0	1458	236.0	1694	230.0	1924	274.0	2198
Finger 19:	1110	215.0	1325	225.0	1550	230.0	1780	262.0	2042
Finger 20:	1266	231.0	1497	241.0	1738	234.0	1972	280.0	2252
Finger 21:	1250	212.0	1462	229.0	1691	225.0	1916	277.0	2193
Finger 22:	1210	206.0	1416	216.0	1632	208.0	1840	254.0	2094
Finger 23:	1263	218.0	1481	228.0	1709	222.0	1931	269.0	2200
Finger 24:	1236	228.0	1464	239.0	1703	235.0	1938	283.0	2221
Finger 25:	1093	215.0	1308	218.0	1526	221.0	1747	270.0	2017
Finger 26:	1122	213.0	1335	230.0	1565	228.0	1793	271.0	2064

Finger 27:	1334	219.0	1553	229.0	1782	229.0	2011	265.0	2276
Finger 28:	1160	213.0	1373	224.0	1597	229.0	1826	261.0	2087
Finger 29:	1257	227.0	1484	236.0	1720	242.0	1962	268.0	2230
Finger 30:	1138	201.0	1339	214.0	1553	222.0	1775	247.0	2022

Finger 31:	1133	209.0	1342	223.0	1565	231.0	1796	255.0	2051
Finger 32:	1096	200.0	1296	211.0	1507	220.0	1727	237.0	1964
Finger 33:	1405	225.0	1630	236.0	1866	245.0	2111	256.0	2367
Finger 34:	1301	224.0	1525	235.0	1760	247.0	2007	254.0	2261
Finger 35:	1067	191.0	1258	200.0	1458	214.0	1672	216.0	1888
Finger 36:	1312	241.0	1553	252.0	1805	268.0	2073	264.0	2337
Finger 37:	1195	215.0	1410	225.0	1635	243.0	1878	237.0	2115
Finger 38:	1278	225.0	1503	233.0	1736	250.0	1986	238.0	2224
Finger 39:	1448	239.0	1687	246.0	1933	265.0	2198	248.0	2446
Finger 40:	1353	231.0	1584	239.0	1823	255.0	2078	229.0	2307
Finger 41:	1225	221.0	1446	229.0	1675	253.0	1928	234.0	2162
Finger 42:	1270	235.0	1505	245.0	1750	272.0	2022	245.0	2267
Finger 43:	1349	228.0	1577	232.0	1809	253.0	2062	223.0	2285
Finger 44:	1226	227.0	1453	239.0	1692	263.0	1955	231.0	2186
Finger 45:	1310	232.0	1542	234.0	1776	262.0	2038	228.0	2266
Finger 46:	1228	228.0	1456	238.0	1694	266.0	1960	229.0	2189
Finger 47:	1451	251.0	1702	258.0	1960	286.0	2246	240.0	2486
Finger 48:	1239	231.0	1470	233.0	1703	265.0	1968	227.0	2195
Finger 49:	1384	244.0	1628	246.0	1874	272.0	2146	230.0	2376
Finger 50:	1288	230.0	1518	234.0	1752	261.0	2013	221.0	2234
Finger 51:	1330	246.0	1576	255.0	1831	283.0	2114	241.0	2355
Finger 52:	1408	241.0	1649	247.0	1896	272.0	2168	231.0	2399
Finger 53:	1468	238.0	1706	239.0	1945	257.0	2202	220.0	2422
Finger 54:	1444	233.0	1677	232.0	1909	253.0	2162	220.0	2382
Finger 55:	1283	237.0	1520	244.0	1764	267.0	2031	234.0	2265
Finger 56:	1265	242.0	1507	247.0	1754	267.0	2021	236.0	2257
Finger 57:	1249	235.0	1484	242.0	1726	260.0	1986	233.0	2219
Finger 58:	1148	239.0	1387	243.0	1630	266.0	1896	245.0	2141
Finger 59:	1205	234.0	1439	234.0	1673	248.0	1921	229.0	2150
Finger 60:	1336	239.0	1575	248.0	1823	261.0	2084	243.0	2327



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Well	RAZOR 11-0241H
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State	COLORADO