



HIGH DEFINITION INDUCTION LOG[®]
COMPENSATED Z-DENSLOG[®]
COMPENSATED NEUTRON LOG[®]
CROSS-MULTIPOLE ARRAY ACOUSTIC LOG[®]
GAMMA RAY LOG[®]
CALIPER LOG[®]

Baker Atlas

FILE NO:	COMPANY	VULCAN MINERALS INC.
API NO:	WELL	VULCAN INVESTCAN RED BROOK #2
	FIELD	BAY ST. GEORGE BASIN
	PROVINCE	NEWFOUNDLAND AND LABRADOR
Ver. 3.87	LOCATION:	
UID:	BH LOC. LSD:	OTHER SERVICES
N/A	LAT 48.2679591667	ZDL-CN-GR-CAL
LICENSE:	LONG -58.7501141667	XMAC-DSL-GR, CVL
ADW 2009-116-03		DLL-GR, DSL
PERMANENT DATUM	G.L.	ELEVATION
LOG MEASURED FROM	K.B.	57.1 M
DRILL MEAS. FROM	KELLY BUSHING	ABOVE P.D.
DATE	25-NOV-2009	
RUN	TRIP	1
SERVICE ORDER	CA210569	
DEPTH DRILLER	1965.0 M	
DEPTH LOGGER	1962.0 M	
BOTTOM LOGGED INTERVAL		
TOP LOGGED INTERVAL		
CASING DRILLER	244.5 MM	885.0 M
CASING LOGGER	884.6 M	
BIT SIZE	216.0 MM	
TYPE OF FLUID IN HOLE	POLYMER	
DENSITY	1260.0 G/L	80.0 S
PH	11.2	4.8 ML
SOURCE OF SAMPLE	TOOL MEASURED	
RM AT MEAS. TEMP.	0.30 OHMM	23.4 DEGC
RM AT MEAS. TEMP.	0.24 OHMM	23.4 DEGC
RMC AT MEAS. TEMP.	0.36 OHMM	23.4 DEGC
SOURCE OF RMF	RMC	CALCULATED
RM AT BHT		
TIME SINCE CIRCULATION	12.5 HOURS	
MAX. RECORDED TEMP.	20.1 DEGC	
EQUIP. NO.	6555	OH NISKU
RECORDED BY	J. HOUSE / R. NEUPANE	
WITNESSED BY	M. SMITH	

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

BOREHOLE RECORD

BIT SIZE	FROM	TO
444.5 MM	0.0 M	220.2 M
311.0 MM	220.2 M	895.0 M
216.0 MM	895.0 M	1965.0 M

CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
339.7 MM	71.4 KG/M	J-55	0.0 M	220.2 M
244.5 MM	84.7 KG/M	L-80	0.0 M	331.8 M
244.5 MM	53.6 KG/M	J-55	331.8 M	895.0 M
177.8 MM				

REMARKS

RUN 2 TRIP 1 : TIME STOPPED CIRCULATION: 25-NOV-2009 02:15

CNC IS ZDL CALIPER CORRECTED.
CNC AND PORZ RECORDED AND PRESENTED IN SANDSTONE MATRIX 2.65G/CM3.
CNC IS CORRECTED FOR 311MM BIT SIZE BEHIND CASING FROM 220.2 M TO SURFACE

HDIL RECORDED WITH AND CORRECTED TO 38.1 MM STANDOFF.
CALIPER PRESENTED WITH HDIL TO ASSIST WITH THE QC OF THE DATA.

INTEGRATED TRANSIT TIME TICS EVERY: 1.0, 10.0, & 100.0 µSEC.

RIG: STONEHAM #11

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
2	1	SWIVEL	3944XA	73677	FREE
2	1	ISO SUB	4488XA	10141562	FREE
2	1	TTMA SUB	3980XA	10091959	FREE
2	1	COMM/POWER	3518FB	10118929	DECENTRALIZED
2	1	COMM/GR	3518FB	10395627	DECENTRALIZED
2	1	FOCUS CN	2436XA	10394243	DECENTRALIZED
2	1	FOCUS ZDEN	2223XA	10116105	PAD_DEVICE
2	1	DBL KNCKL	3931XA	10455333	FREE
2	1	HDIL	1530XA	10132721	CENTRALIZED

INSTRUMENT CONFIGURATION

Source File: /dat1a/pass/vulcan/k970a~VUL-tdg

FOCUS CABLEHEAD

Series : CABL318
Mnemonic : CBLH
Diameter : 3.12"
Weight : 6.8 kg

FOCUS SHORT ISOLATION SUB, 10 PIN F/T

Series : 4488XA
Mnemonic : ISSB

FOCUS TEN/TEMP/MUD RES/ACCEL

Series : 3980XA
Mnemonic : TTMA
Diameter : 3.13"
Weight : 27.7 kg
Length : 131.4 cm
Temp Rating : 127 deg. C
Press Rating : 703 kg/cm2

FOCUS TELEMETRY (POWER SECTION)

Series : 3518FB
Mnemonic : TMGR
Diameter : 3.13"
Weight : 21.8 kg
Length : 113.1 cm

FOCUS EB/EG TELEMETRY GAMMA RAY

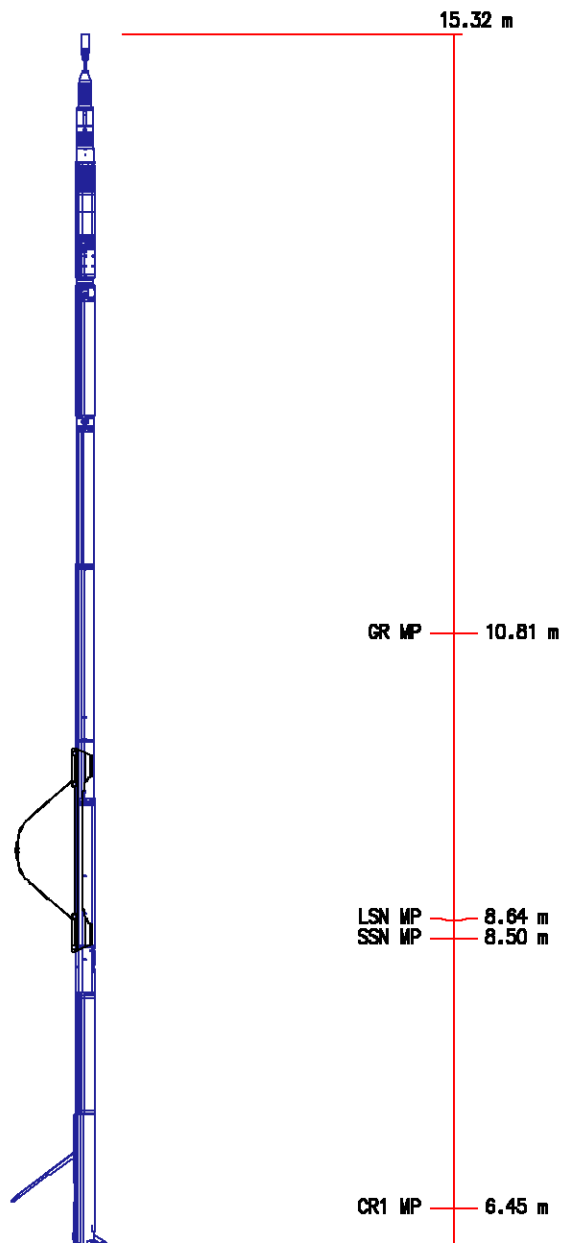
Series : 3518EG
Mnemonic : GR
Diameter : 3.12"
Weight : 28.6 kg
Length : 177.8 cm
Measure Point: 129.2 cm: GR MP
Temp Rating : 127 deg. C
Press Rating : 703 kg/cm2

FOCUS COMPENSATED NEUTRON

Series : 2436XA
Mnemonic : CN
Diameter : 3.13"
Weight : 29.5 kg
Length : 148.7 cm
Source Type : AM241BE
Strength : 18.0 curies
Measure Point: 58.4 cm: LSN MP

FOCUS Z-DENSILOG

Series : 2223XA
Mnemonic : ZDL
Diameter : 3.75"
Weight : 90.9 kg
Length : 292.1 cm
Source Type : CS137
Strength : 2.0 curies
Measure Point: 132.1 cm: CR1 MP



Measure Point: 132.1 cm: CR1 MP
 Measure Point: 51.4 cm: LSD / CR2 MP
 Measure Point: 39.4 cm: SSD MP
 Temp Rating : 127 deg. C
 Press Rating : 703 kg/cm2

FOCUS KNUCKLE JOINT
 Series : 3930XA

FOCUS KNUCKLE JOINT
 Series : 3930XA

FOCUS HIGH DEFINITION INDUCTION TOOL

Series : 1530XA
 Mnemonic : HDIL
 Diameter : 3.13"
 Weight : 52.3 kg
 Length : 408.4 cm
 Measure Point: 218.8 cm: COIL 5 MP
 Measure Point: 172.9 cm: COIL 4 MP
 Measure Point: 127.2 cm: COIL 3 MP
 Measure Point: 111.9 cm: COIL 2 MP
 Measure Point: 96.7 cm: COIL 1 MP
 Measure Point: 81.5 cm: COIL 0 MP
 Measure Point: 34.7 cm: SP MP
 Temp Rating : 127 deg. C
 Press Rating : 703 kg/cm2

FOCUS PINEAPPLE / CABBAGE

TOTAL LENGTH: 15.32 m
 TOTAL WEIGHT: 324.5 kg
 MAX DIAMETER: 0'6.13"

LSD / CR2 MP 5.65 m
 SSD MP 5.52 m

COIL 5 MP 2.34 m
 COIL 4 MP 1.88 m
 COIL 3 MP 1.42 m
 COIL 2 MP 1.27 m
 COIL 1 MP 1.12 m
 COIL 0 MP 0.97 m
 SP MP 0.50 m
 0.00 m

MAIN LOG - SANDSTONE MATRIX

ECLIPS 6.01 Feb 21, 2008
 Updates: 1,40,43

Wed Nov 25 23:24:22 2009

Pcrplt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.42

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/vulcan/k970a03.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 796.816 m BOTTOM DEPTH: 1967.491 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ()	medium (1)		TOP	BOTTOM
GR MED RES	FILTER ()	medium (1)		"	"
CALIPER	FILTER ()	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"
CN MED RES	FILTER ()	medium (1)		"	"
ZDL MED RES	FILTER (hrd1*)	medium		"	"
	FILTER (hrd1s*)	medium		"	"
	FILTER (hrd2*)	medium		"	"
	FILTER (hrd2s*)	medium		"	"
	FILTER (soft*)	medium		"	"
SP-SPDH	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
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CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	0.000	mm	TOP	BOTTOM
	CASING THICKNESS	0.000	mm	"	"
BIT SIZE	BIT SIZE	216.000	mm	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		"	"
	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	216.000	mm	"	"
	FIXED DIAMETER (mbh*)	216.000	mm	"	"
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	25.0	degC	"	"
	MUD SAMPLE RES	1.000	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	25.0	degC	"	"
	at BH REF DEPTH	0.0	m	"	"
	with TEMP GRADIENT	2.187	0.01 degC/m	"	"
ACCELERATION PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
ACCEL CORR SWITCH	ACCEL DEPTH CORR	CORRECTION ON		TOP	BOTTOM
CN PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CN BOREHOLE CORRECTION	SALINITY	0	ppm	TOP	BOTTOM
	BOREHOLE CORRECTION	ON		"	"
CN CASING & CEMENT CORRECTION	CORRECTION	ON		TOP	878.662
		OFF		878.662	BOTTOM
	BIT SIZE BEHIND CSNG	311.000	mm	TOP	879.881
		200.025	mm	879.881	BOTTOM
ZDL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
DENSITY POROSITY	RHOfluid	1.000	g/cm3	TOP	BOTTOM
	RHOmatrix (sand)	2.650	g/cm3	"	"
HDIL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
HDIL TEMPERATURE CORRECTION	TEMP CORRECTION	ON		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"
	ABC to CALCULATE	STANDOFF		"	"
	STANDOFF	15.00	mm	"	"
	TOOL POSITION	ECCENTERED		"	"
	Rmud MULTIPLIER	1.000		"	"
PARAMETER AND FILTER SUMMARY REPORT					
FILE: /data/pass/vulcan/ku833k03.prm					
LOGGING MODE: DEPTH DIRECTION: UP					
TOP DEPTH: 792.328 m BOTTOM DEPTH: 1960.784 m					
SYMMETRIC FILTER					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ()	medium (1)		TOP	BOTTOM
TENSION	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
BOREHOLE & CEMENT					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
BIT SIZE	BIT SIZE	216.000	mm	TOP	BOTTOM
ACOUSTIC AVAN CORRELATON					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
MONOPOLE COMPRESSIONAL	FORMATION TYPE	GENERIC (MEDIUM)		TOP	BOTTOM
	CORRELATION METHOD	NTH ROOT		"	"
	RESET TAPERS			"	"
	TAPER - LEFT END	90	us/m	TOP	1272.921
		100	us/m	1272.921	BOTTOM
	TAPER - RIGHT END	300	us/m	TOP	881.352
		330	us/m	881.352	985.098
		300	us/m	895.008	980.002

	300	us/m	983.098	990.902
	330	us/m	990.902	999.058
	300	us/m	999.058	1007.084
	330	us/m	1007.084	1016.889
	300	us/m	1016.889	1018.966
	330	us/m	1018.966	1052.981
	350	us/m	1052.981	1063.894
	370	us/m	1063.894	1073.125
	350	us/m	1073.125	1088.955
	330	us/m	1088.955	1094.872
	380	us/m	1094.872	1101.902
	360	us/m	1101.902	1103.698
	330	us/m	1103.698	1118.997
	350	us/m	1118.997	1134.500
	330	us/m	1134.500	1135.135
	280	us/m	1135.135	1138.199
	330	us/m	1138.199	1138.929
	370	us/m	1138.929	1142.771
	400	us/m	1142.771	1154.617
	380	us/m	1154.617	1157.330
	350	us/m	1157.330	1163.920
	380	us/m	1163.920	1165.174
	350	us/m	1165.174	1178.495
	300	us/m	1178.495	1215.619
	330	us/m	1215.619	1269.416
	320	us/m	1269.416	1280.824
	310	us/m	1280.824	1293.744
	330	us/m	1293.744	1300.810
	300	us/m	1300.810	1314.199
	330	us/m	1314.199	1334.795
	300	us/m	1334.795	1336.777
	330	us/m	1336.777	1339.477
	360	us/m	1339.477	1351.660
	340	us/m	1351.660	1367.368
	360	us/m	1367.368	1388.440
	340	us/m	1388.440	1395.838
	370	us/m	1395.838	1417.463
	350	us/m	1417.463	1420.242
	370	us/m	1420.242	1421.331
	350	us/m	1421.331	1432.789
	330	us/m	1432.789	1435.379
	300	us/m	1435.379	1455.344
	330	us/m	1455.344	1459.429
	300	us/m	1459.429	1482.628
	330	us/m	1482.628	1486.878
	300	us/m	1486.878	1471.558
	330	us/m	1471.558	1475.918
	280	us/m	1475.918	1479.099
	330	us/m	1479.099	1510.129
	350	us/m	1510.129	1510.513
	380	us/m	1510.513	1511.091
	350	us/m	1511.091	1511.671
	300	us/m	1511.671	1531.087
	330	us/m	1531.087	1533.011
	280	us/m	1533.011	1536.947
	310	us/m	1536.947	1538.773
	340	us/m	1538.773	1541.372
	370	us/m	1541.372	1543.404
	350	us/m	1543.404	1553.489
	330	us/m	1553.489	1554.861
	350	us/m	1554.861	1563.806
	380	us/m	1563.806	1587.132
	350	us/m	1587.132	1654.073
	330	us/m	1654.073	1745.513
	350	us/m	1745.513	1747.567
	380	us/m	1747.567	1773.860
	350	us/m	1773.860	1793.672
	330	us/m	1793.672	1812.689
	350	us/m	1812.689	1819.123
	370	us/m	1819.123	1821.372
	350	us/m	1821.372	1821.999
	330	us/m	1821.999	1829.333
	270	us/m	1829.333	1855.370
	300	us/m	1855.370	1856.266
	330	us/m	1856.266	1856.895
	350	us/m	1856.895	1858.137
	300	us/m	1858.137	1883.238
FLOOR (UNIV. OPTION)	0.000		TOP	BOTTOM
	0.050		1883.238	BOTTOM
ACOUSTIC WAVEFORM FILTER				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
WAVEFORM FILTER - FULLWAVE	SURFACE WAVE FILTER	ON		TOP
	LOW FREQ CUTOFF	1500	Hz	BOTTOM
	HIGH FREQ CUTOFF	20000	Hz	
ACOUSTIC TCC CONTROL PARAMETERS				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
GENERAL TCC PARAMETERS	AGC	ON		TOP
GENERAL MONOPOLE TCC PARAMETERS	STACK LEVEL	1		BOTTOM
	LOW FREQ	500		
	HIGH FREQ	20000		

	HIGH FREQ	25			
FULL WAVE MONOPOLE TCC PARAMETERS	ACG WINDOW	5184	us	''	''
	SAMPLE PERIOD	12		''	''
	RX DELAY	0	us	''	''

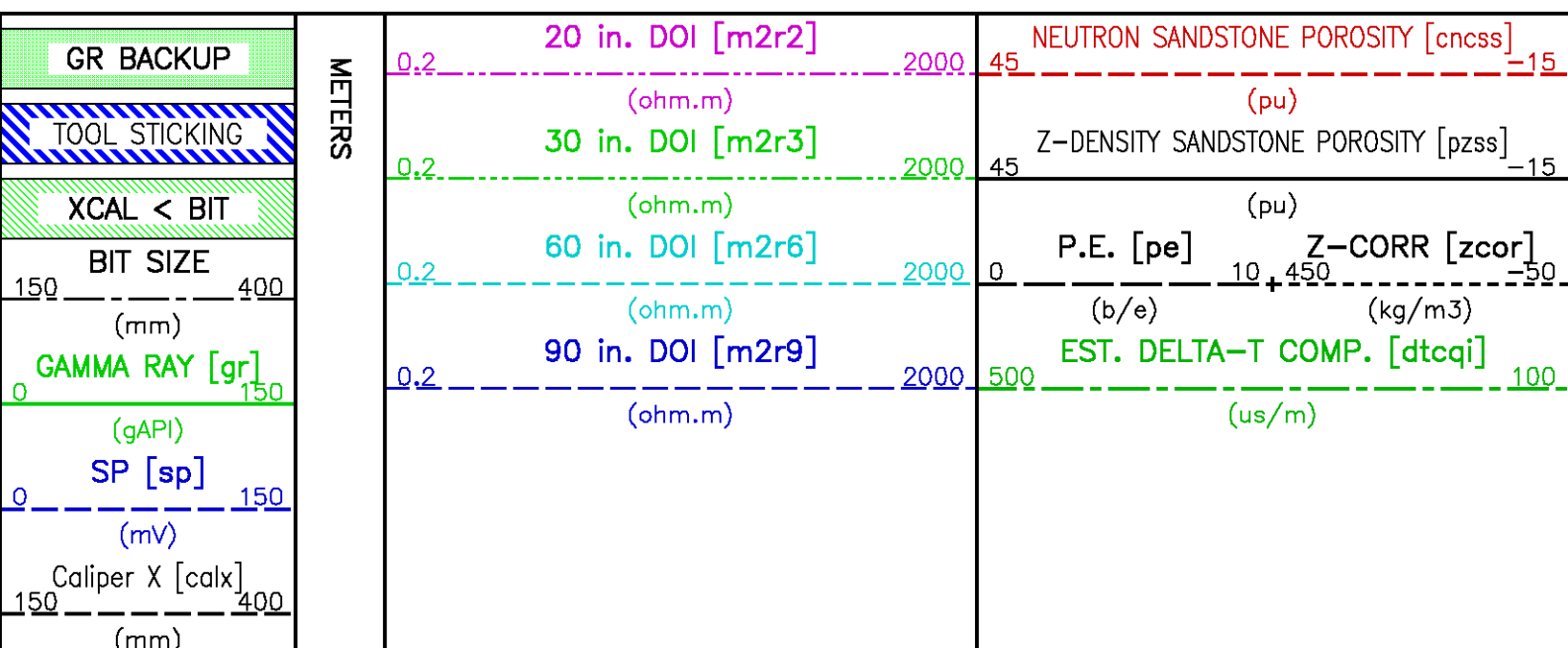
CURVE DESCRIPTION REPORT				
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION	
F1:BIT	BIT	Nov 25 13:16:58 2009	BIT SIZE	
F1:CALX	CALX	Nov 25 13:16:58 2009	CALIPER FROM X AXIS OF X-Y CALIPER(S)	
F1:CHT	CHT	Nov 25 13:16:58 2009	CABLE HEAD TENSION	
F1:CNCSS	CNCSS	Nov 25 13:16:58 2009	BH SIZE CORR. SANDSTONE COMPENSATED NEUTRON POROSITY	
F2:DTCQI	DTCQI	Nov 25 18:18:32 2009	COMPRESSIONAL WAVE SLOWNESS	
F1:GR	GR	Nov 25 13:16:58 2009	GAMMA RAY	
F1:M2R2	M2R2	Nov 25 13:16:58 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 20 INCH	
F1:M2R3	M2R3	Nov 25 13:16:58 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 30 INCH	
F1:M2R6	M2R6	Nov 25 13:16:58 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 60 INCH	
F1:M2R9	M2R9	Nov 25 13:16:58 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 90 INCH	
F1:PE	PE	Nov 25 13:16:58 2009	PHOTO ELECTRIC CROSS-SECTION	
F1:PZSS	PZSS	Nov 25 13:16:58 2009	POROSITY FOR SANDSTONE MATRIX	
F1:SP	SP	Nov 25 13:16:58 2009	SPONTANEOUS POTENTIAL	
F1:TEN	TEN	Nov 25 13:16:58 2009	DIFFERENTIAL TENSION	
F1:ZCOR	ZCOR	Nov 25 13:16:58 2009	DENSITY CORRECTION	

CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	DTCQI	5.94	M2R6	0.84	SP	0.38
CALX	5.49	GR	10.67	M2R9	0.84	TEN	0.00
CHT	0.00	M2R2	0.84	PE	5.49	ZCOR	5.49
CNCSS	8.34	M2R3	0.84	PZSS	5.49		

Presentation : cpu1:/dat1a/pass/vulcan/comp_main_ss.pdf [1:240 Scale]
Plot Interval : 884.6 - 1975 Meters

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Company : VULCAN MINERALS INC.
Well : VULCAN INVESTCAN RED BROOK #2
Field : RED BROOK
File Interval : 789.889 - 1968.93 Meters
Oct : k970a

Data File 2 : F2 : cpu1:/dat1a/pass/vulcan/ku833k03.xtf
Created On : Nov 25 18:18:32 2009
Company : VULCAN MINERALS INC.
Well : VULCAN INVESTCAN RED BROOK #2
Field : RED BROOK
File Interval : 774.878 - 1961.16 Meters
Oct : ku833k



DIFF. TENSION [ten]
1900 - 100
(lbf)

CH-TENSION [cht]
5000 - 0
(lbf)

CSG

900

925

BIT

GR

SP

CALX

TEN

CHT

M2R2

M2R6

M2R3

M2R9

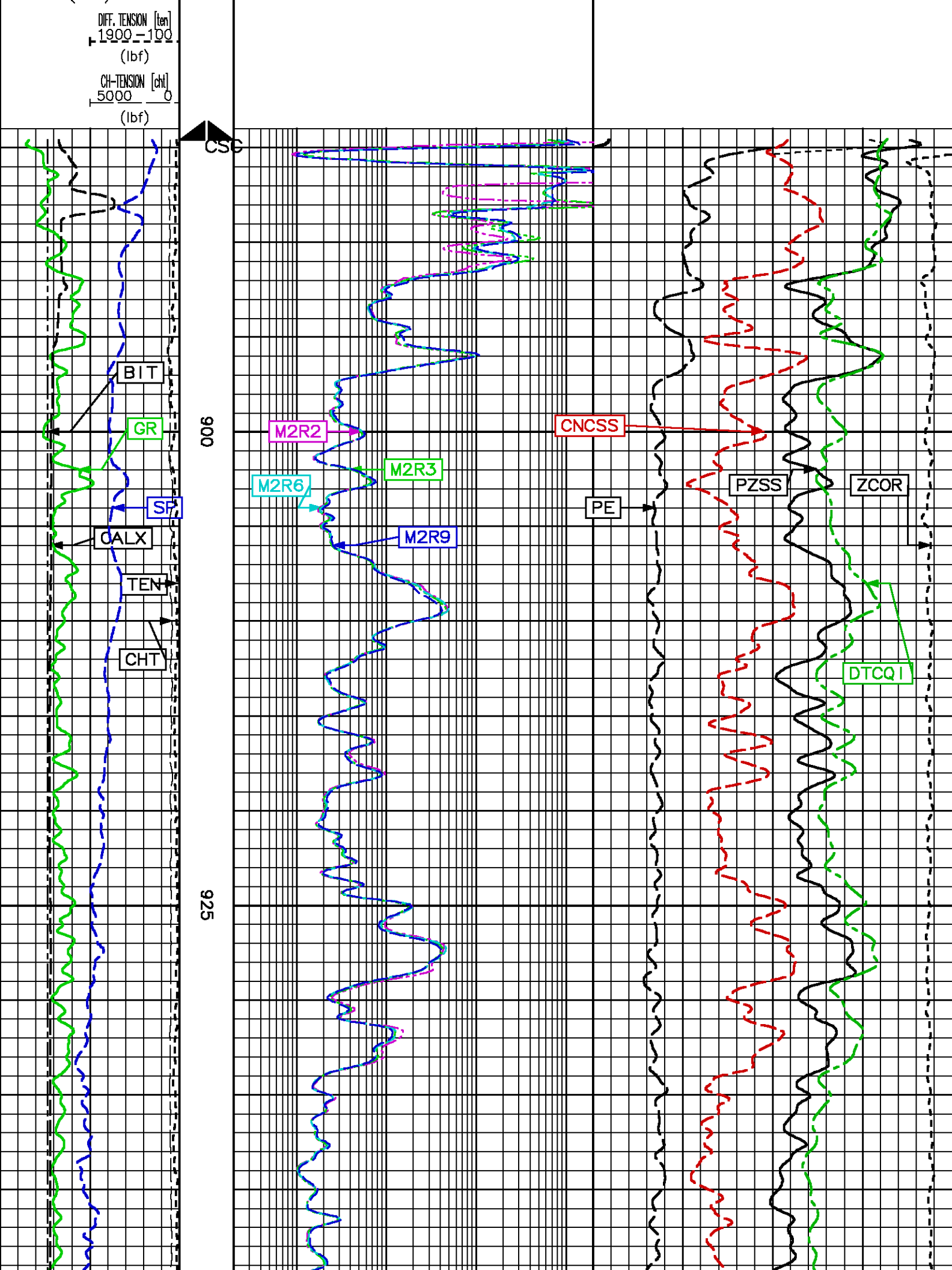
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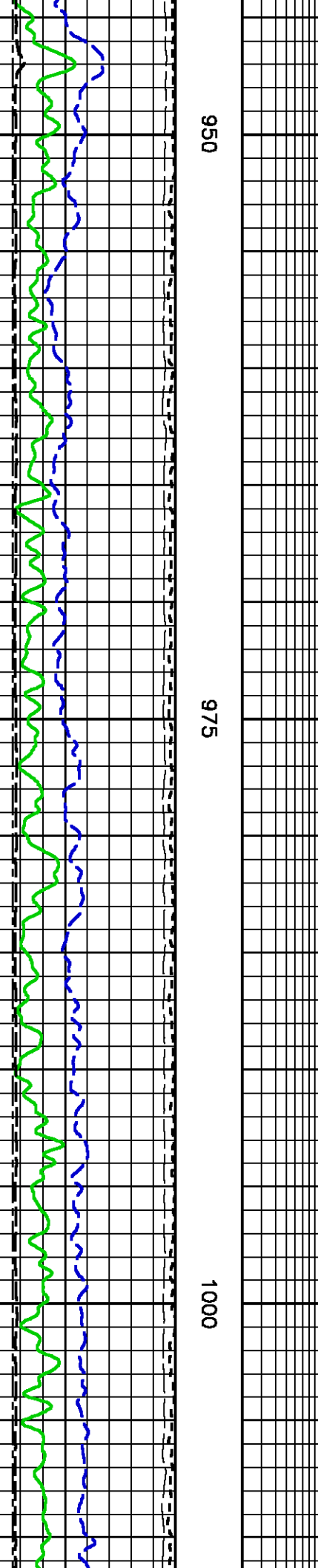
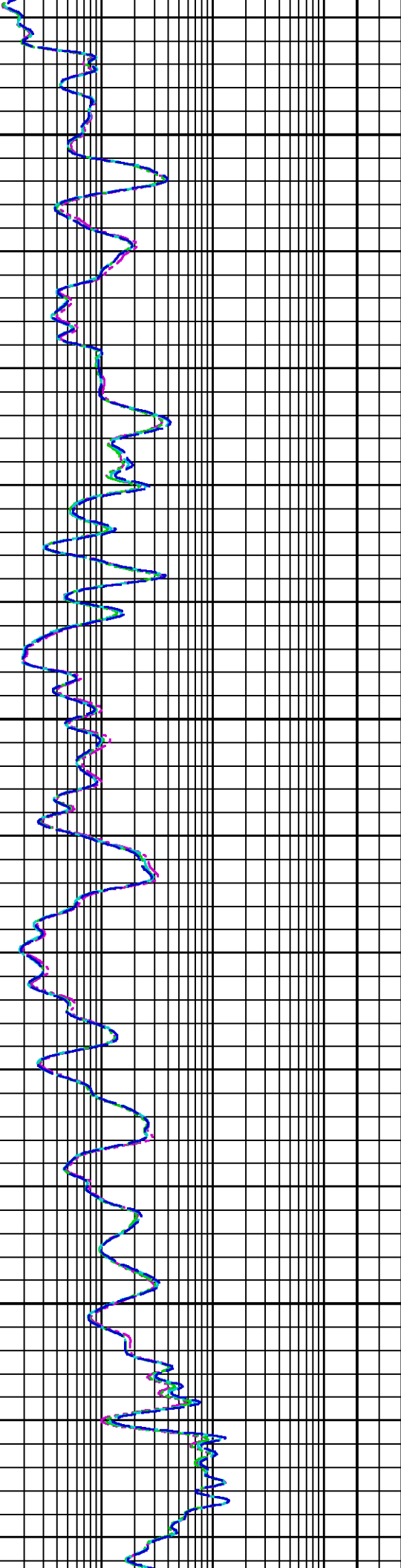
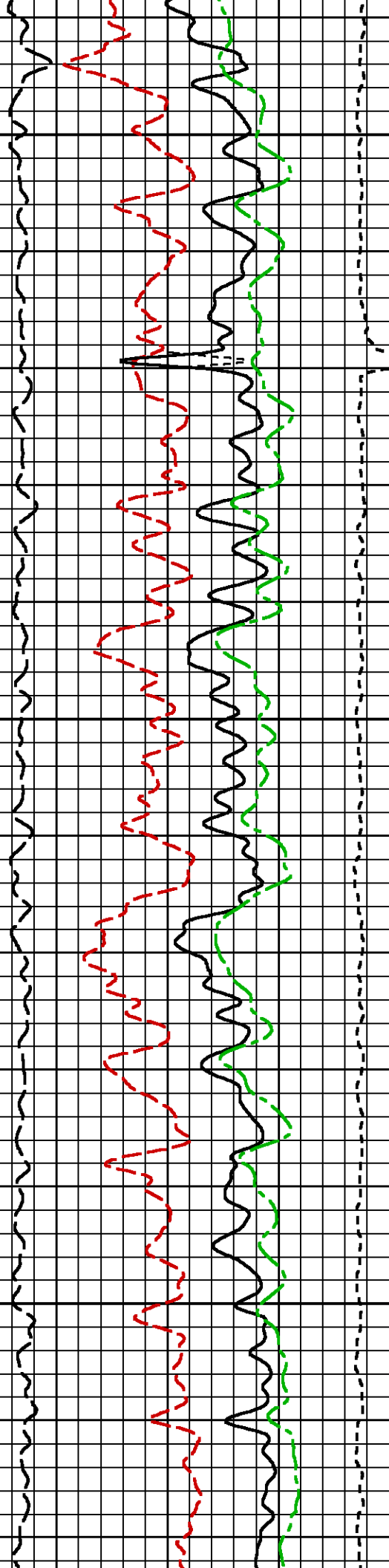
PE

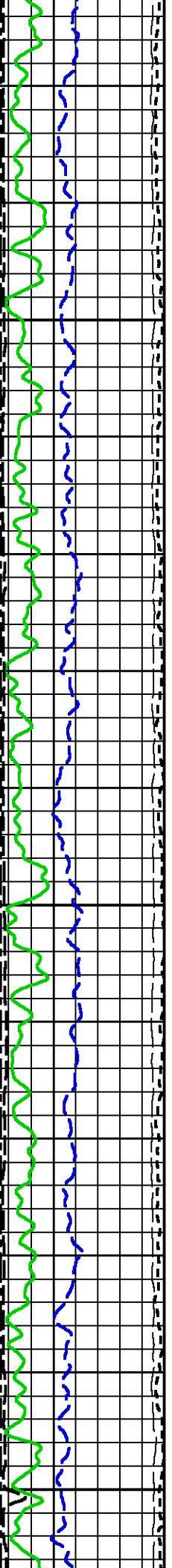
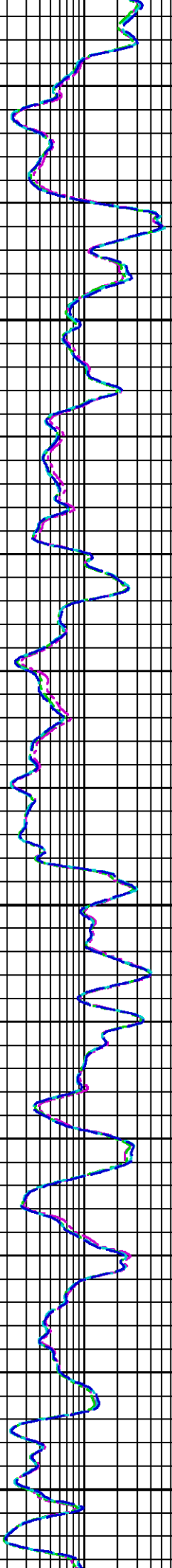
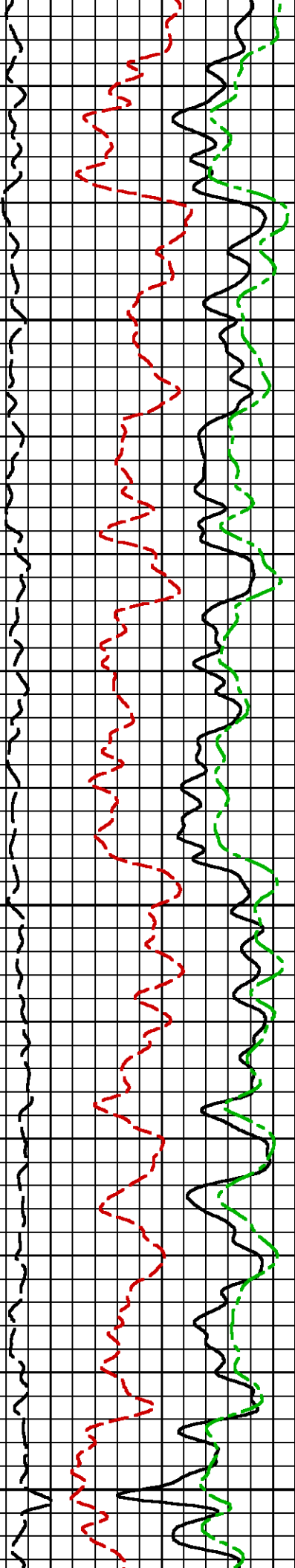
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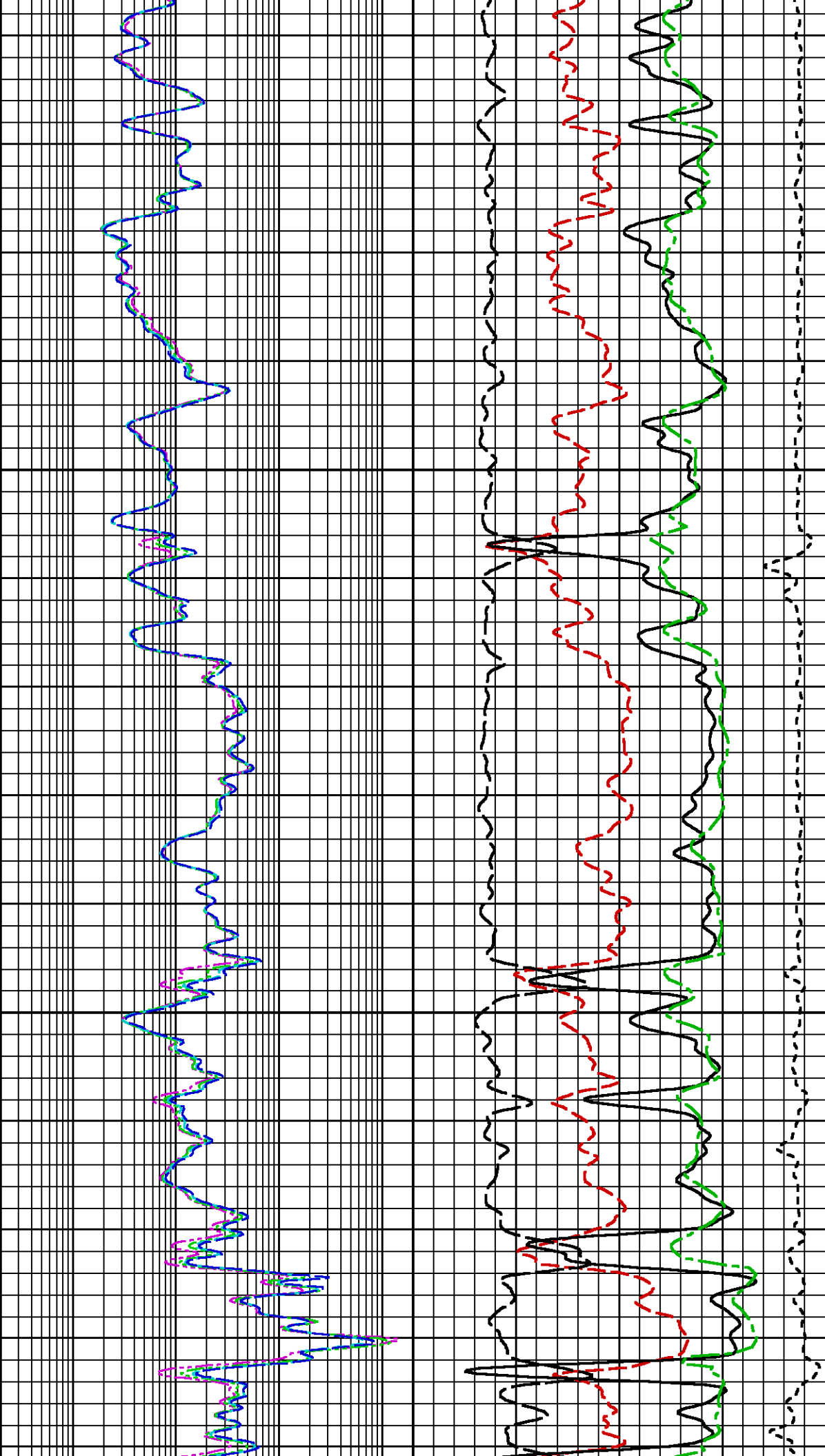
ZCOR

DTCQI



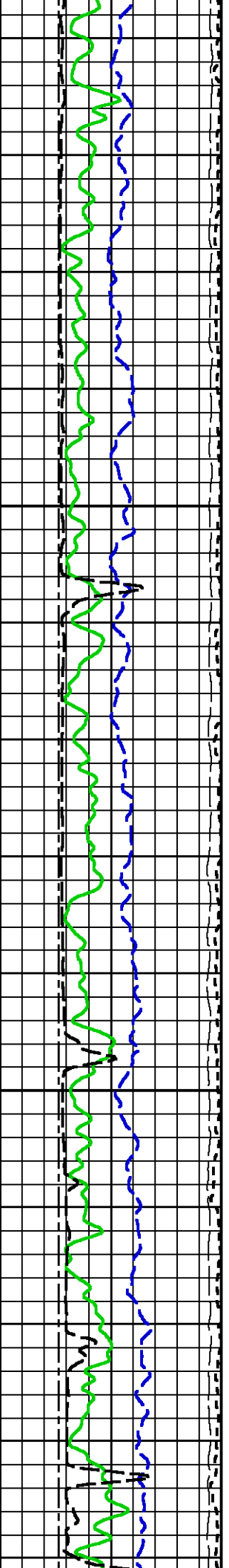


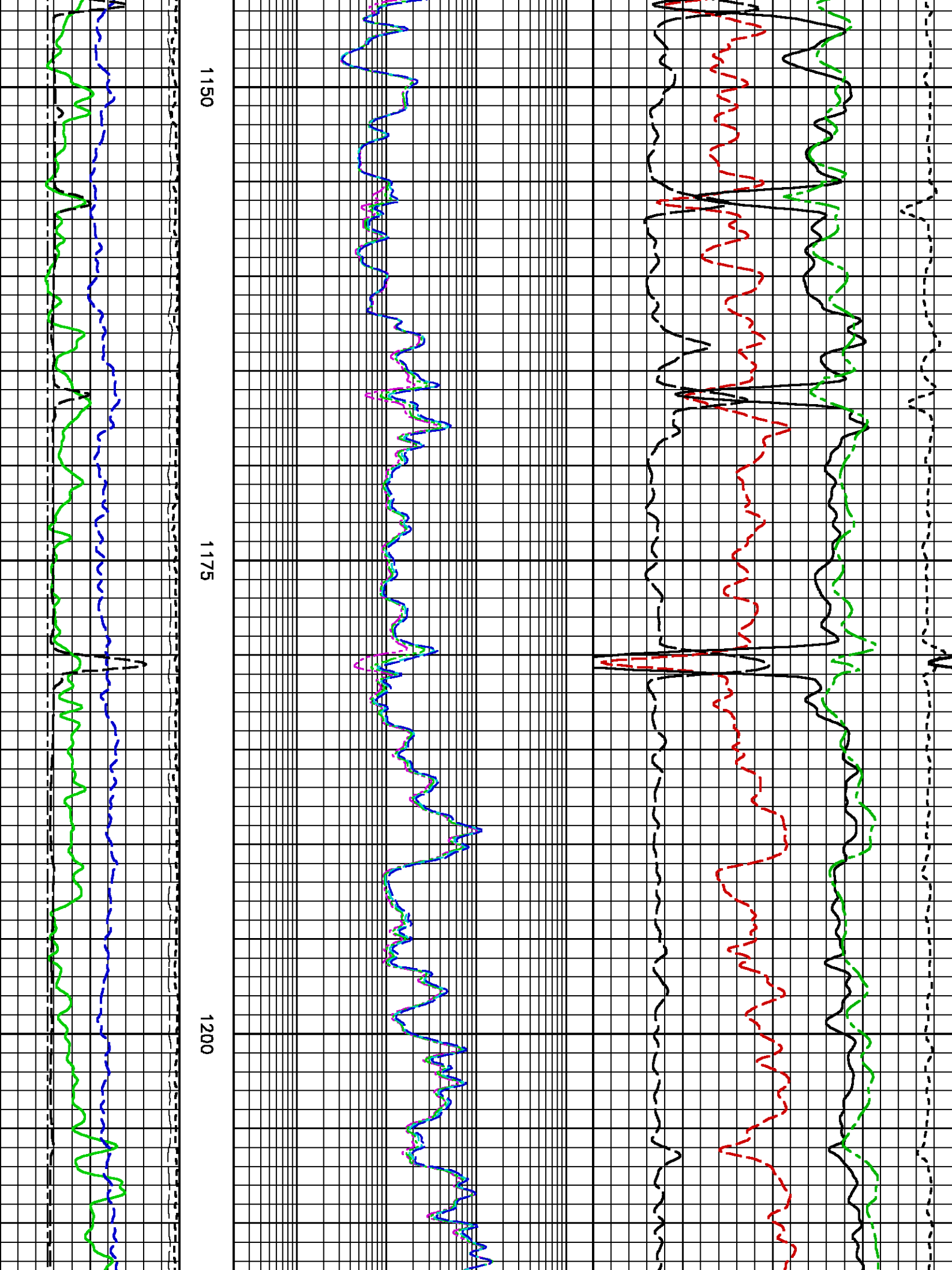


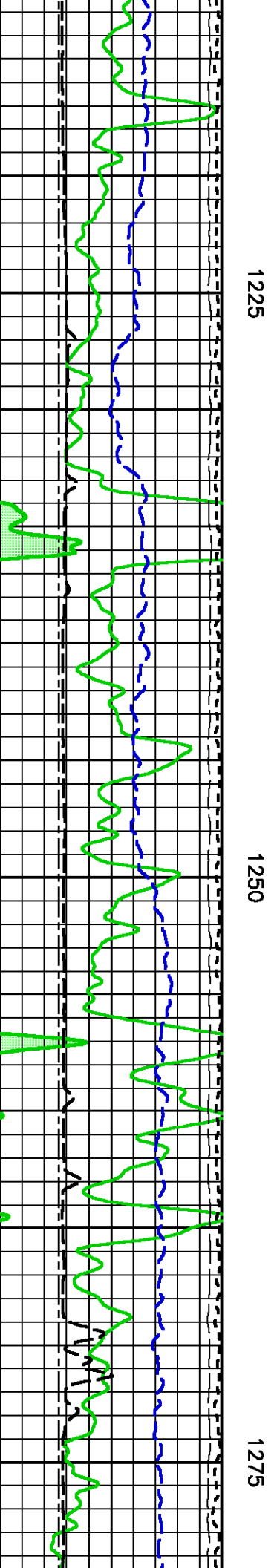
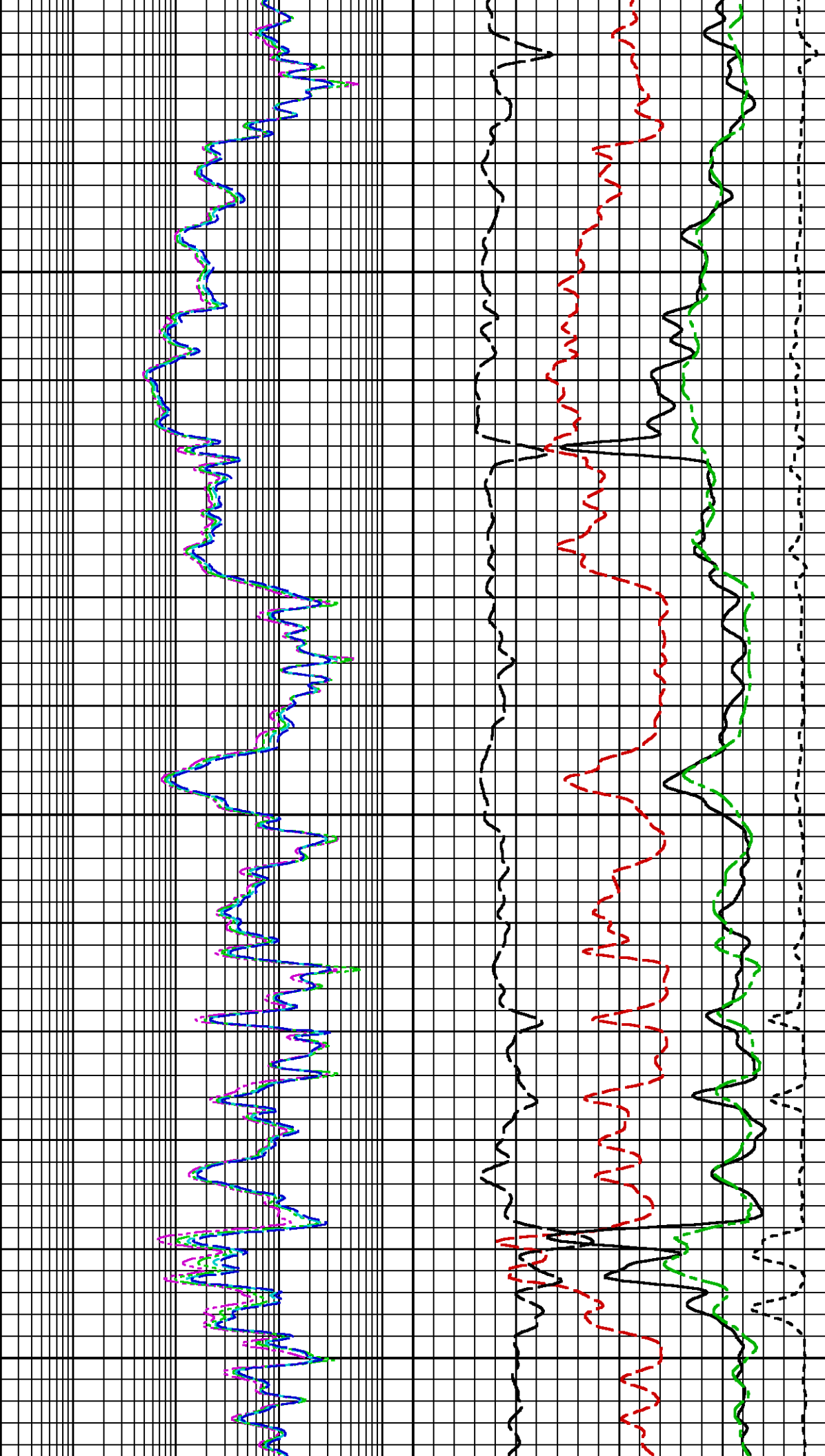


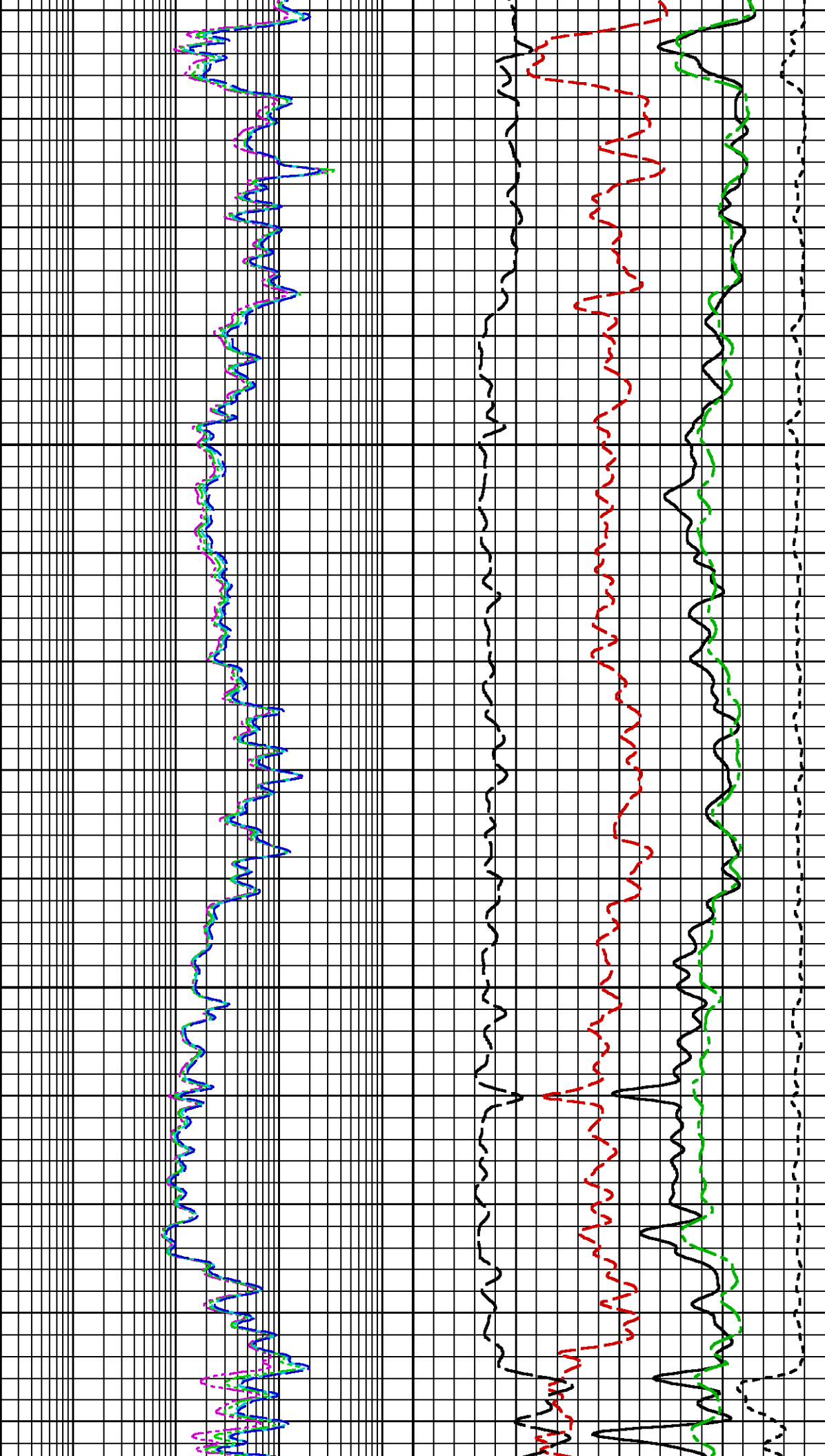
1100

1125



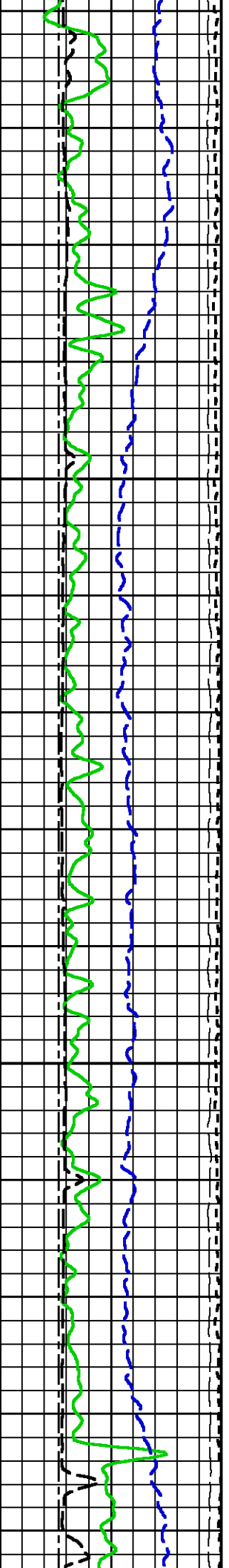


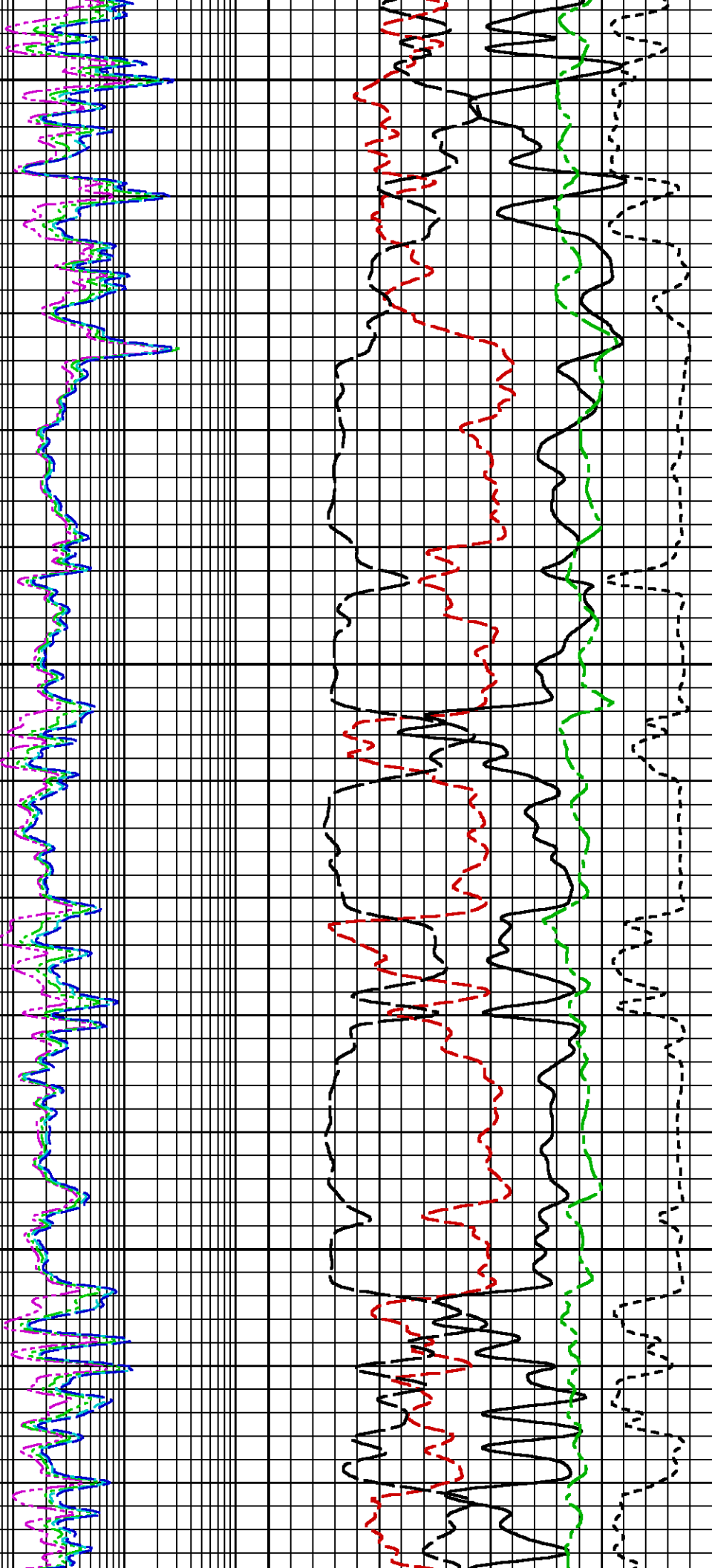




1300

1325

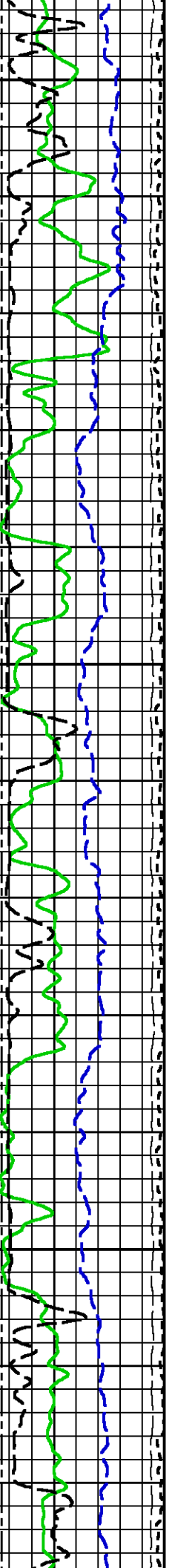


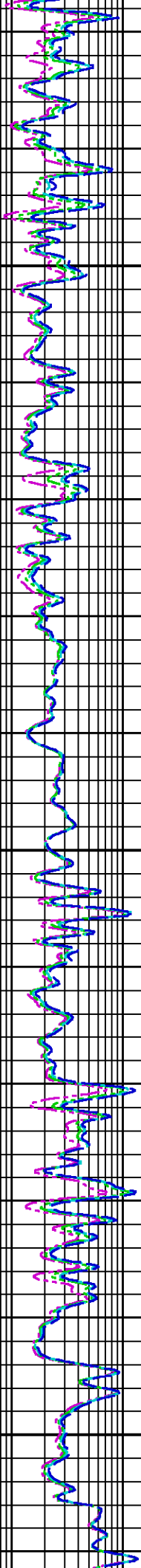
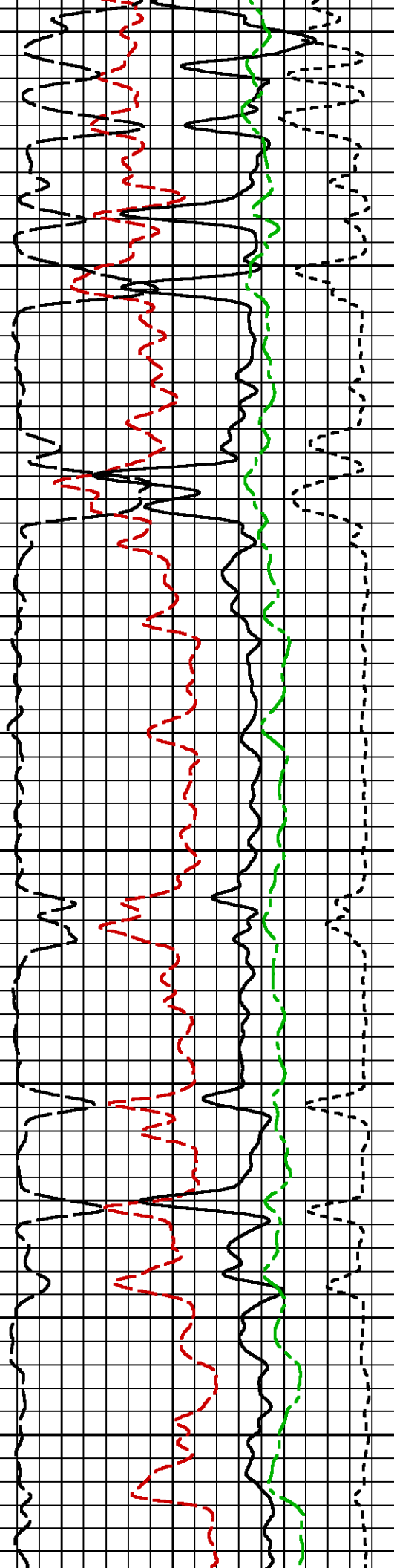


1350

1375

1400

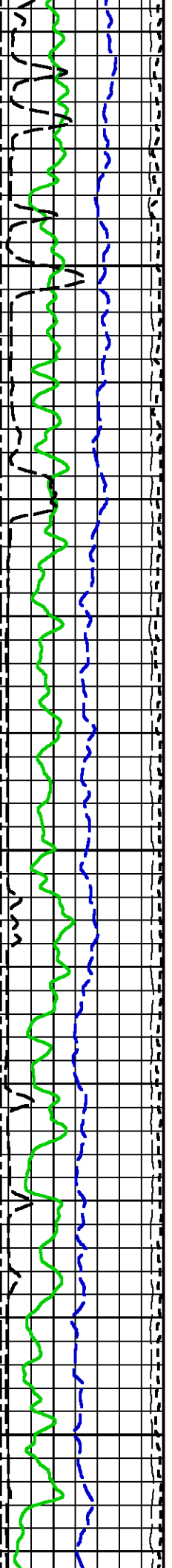


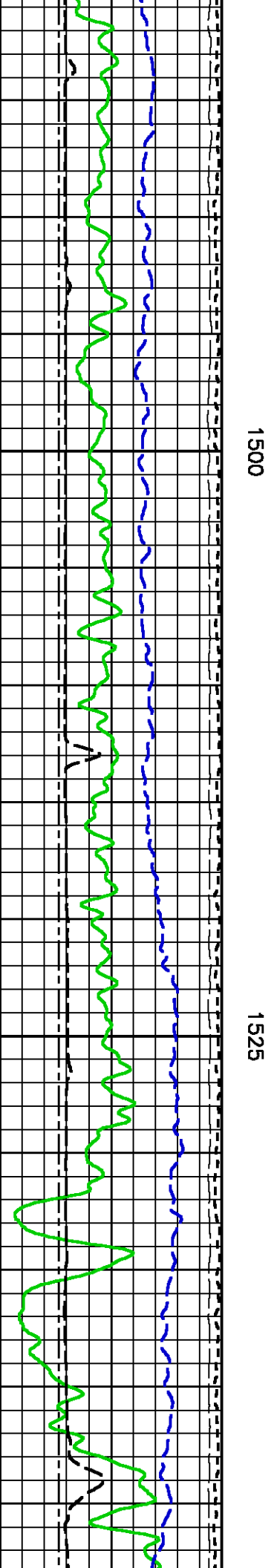
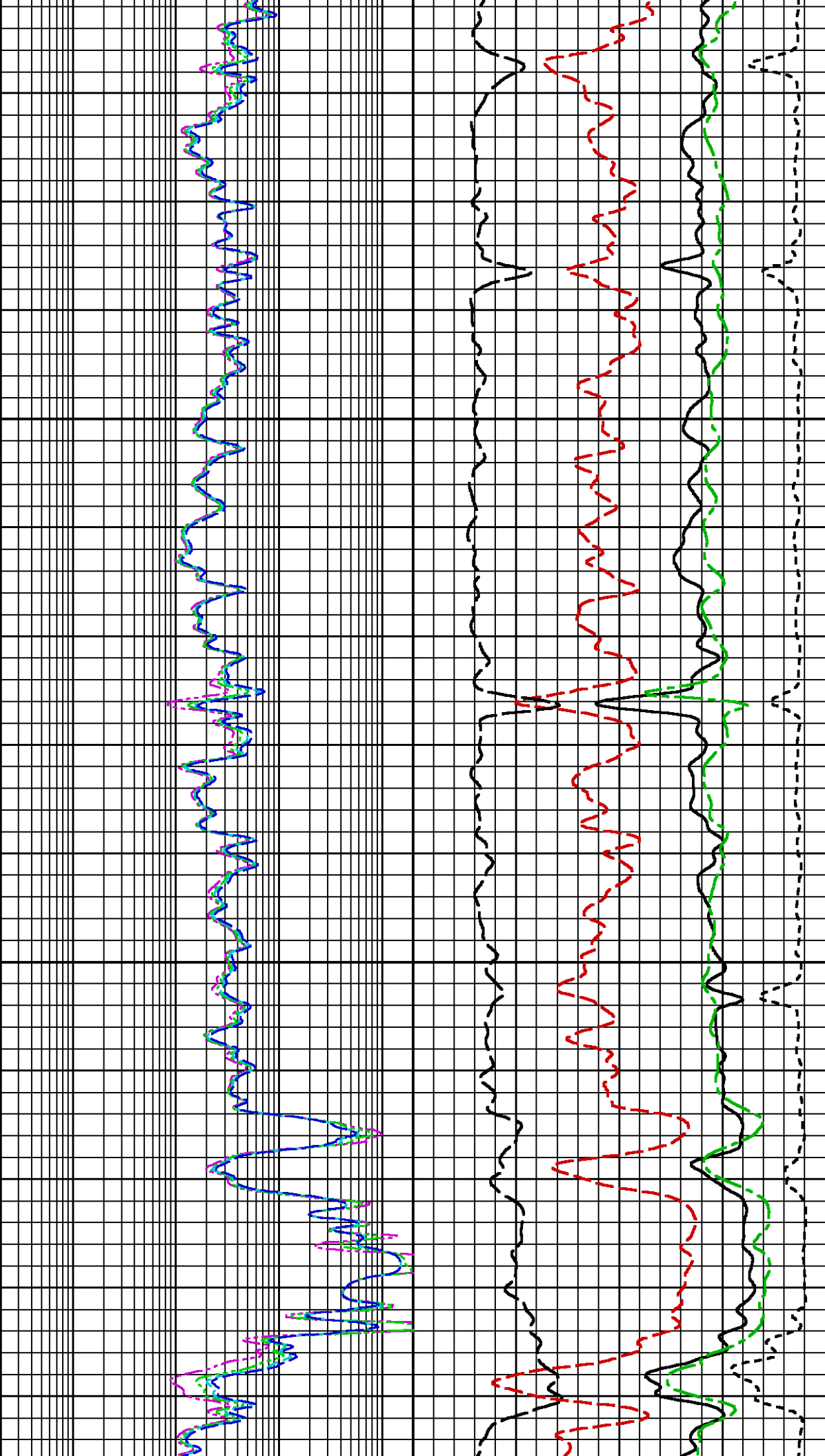


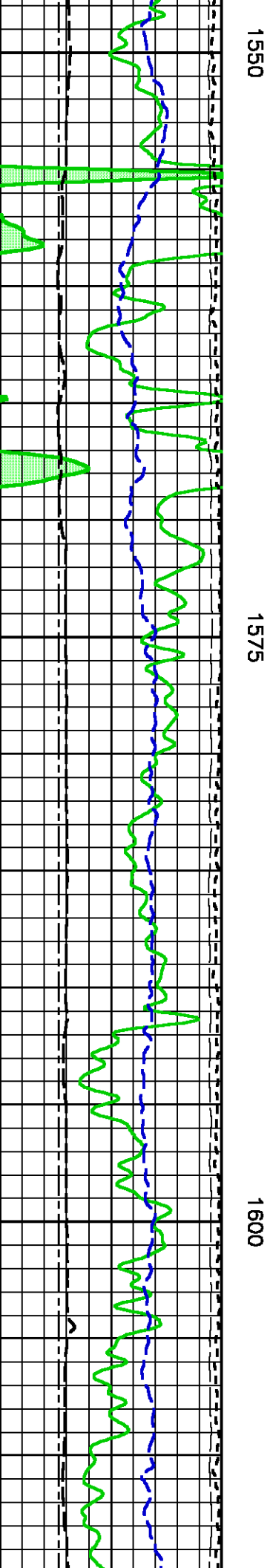
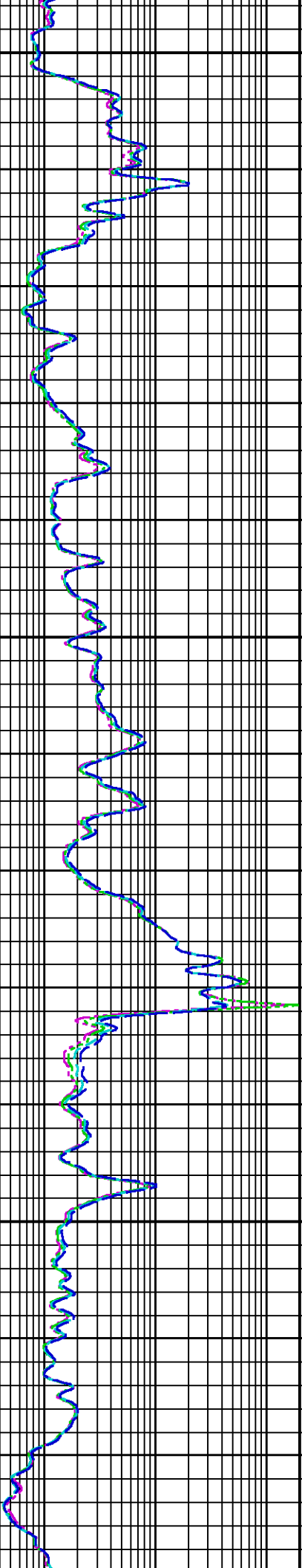
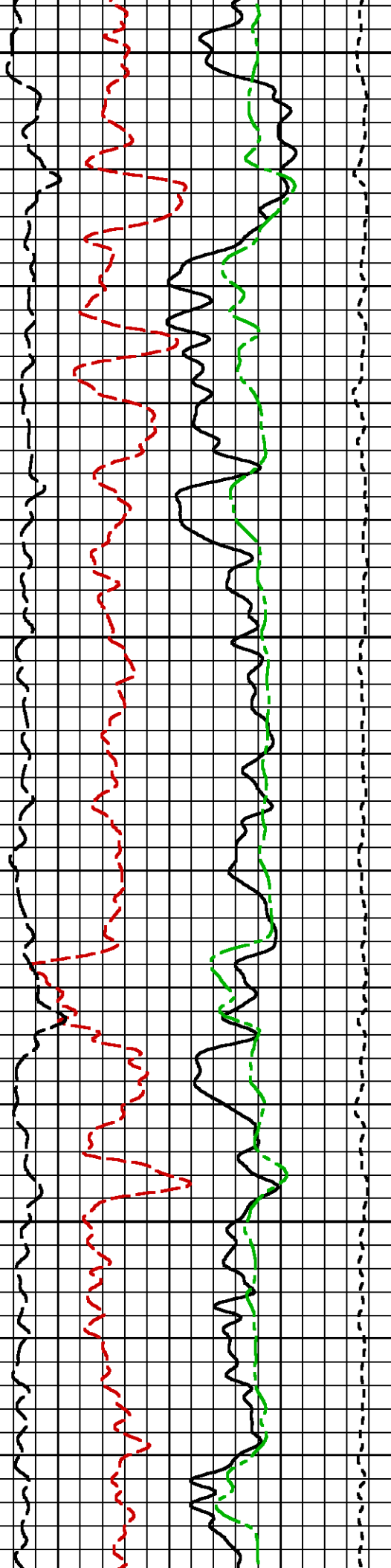
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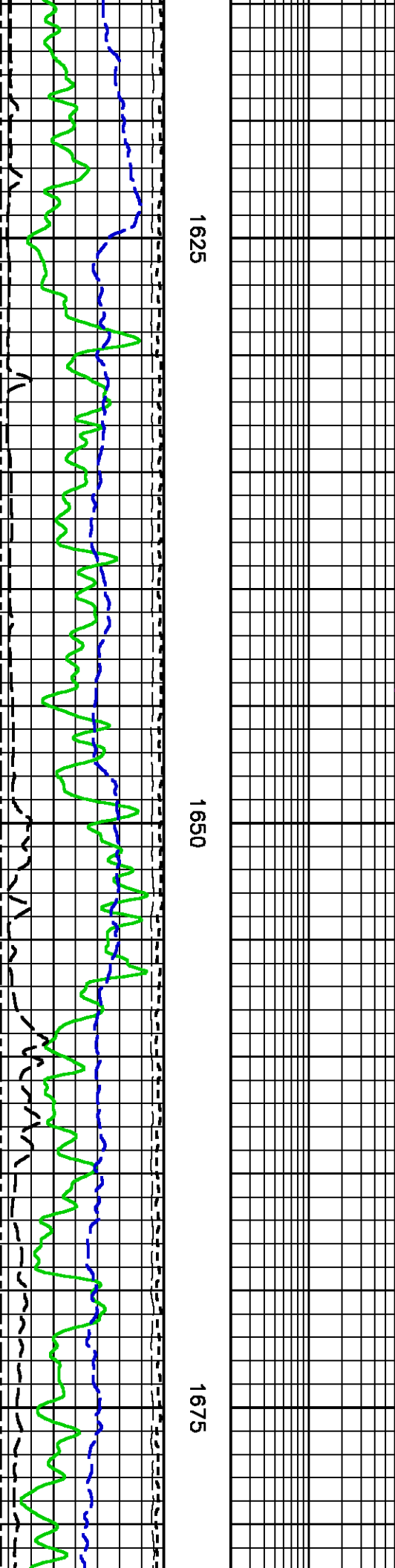
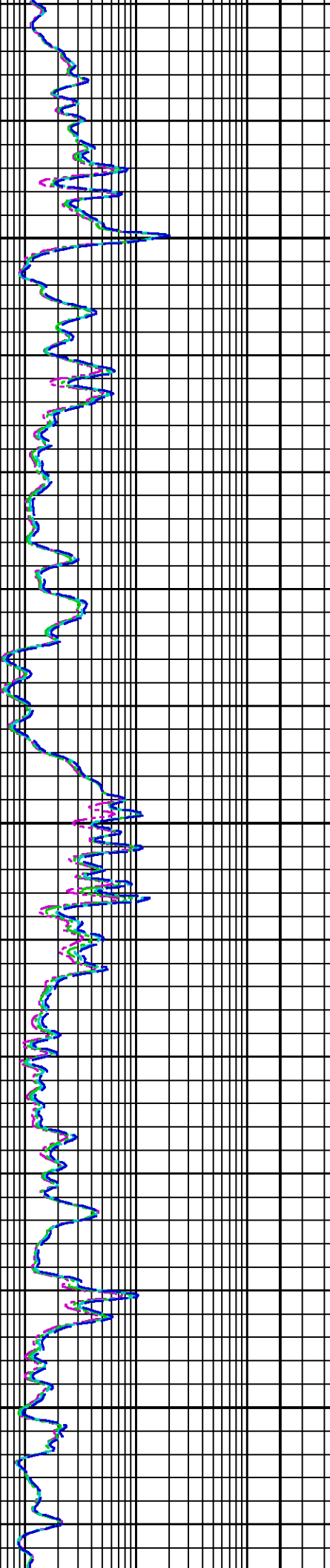
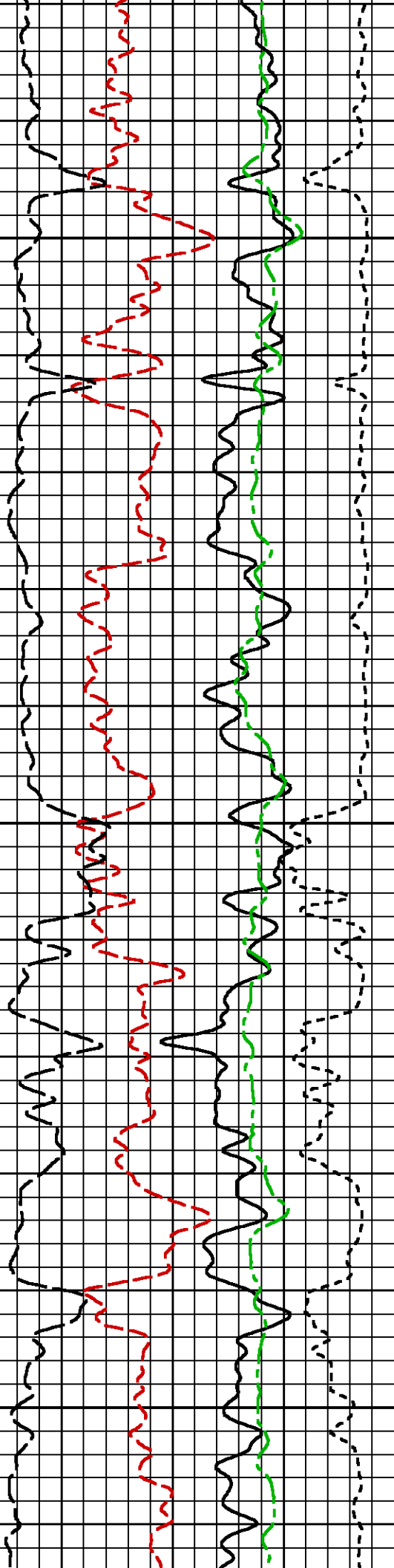
1450

1475





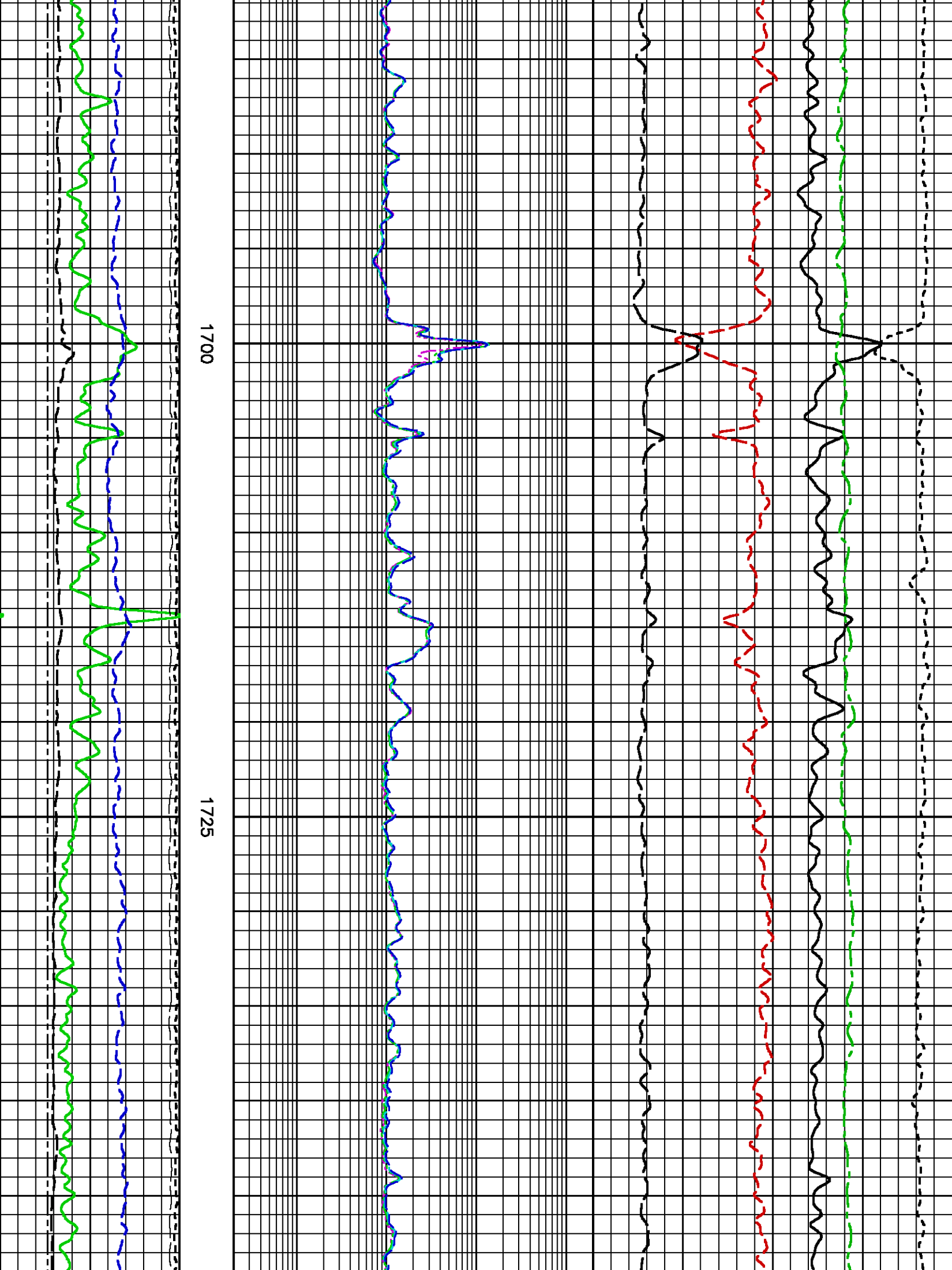


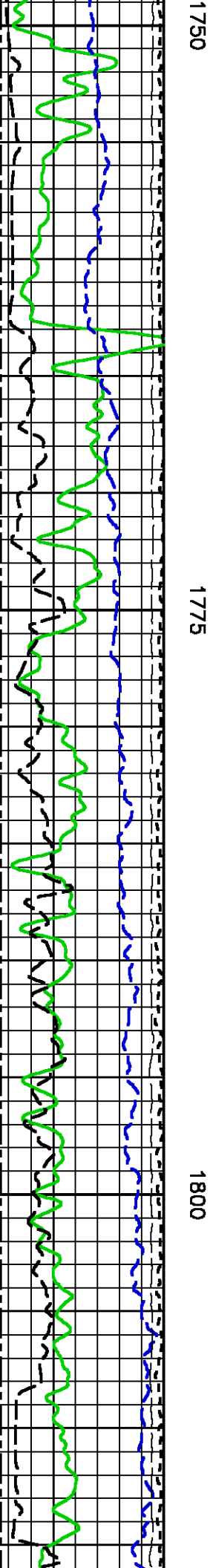
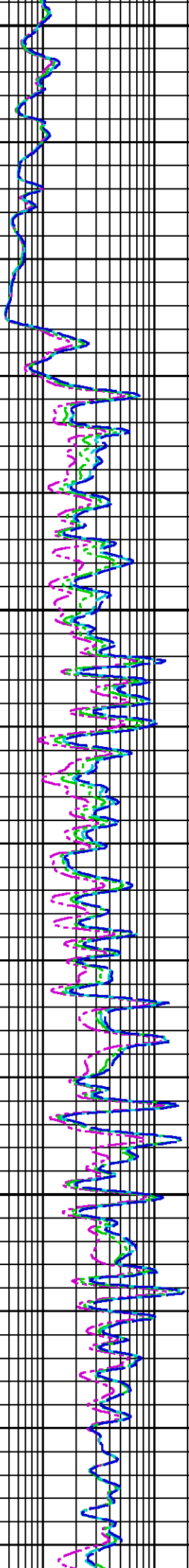
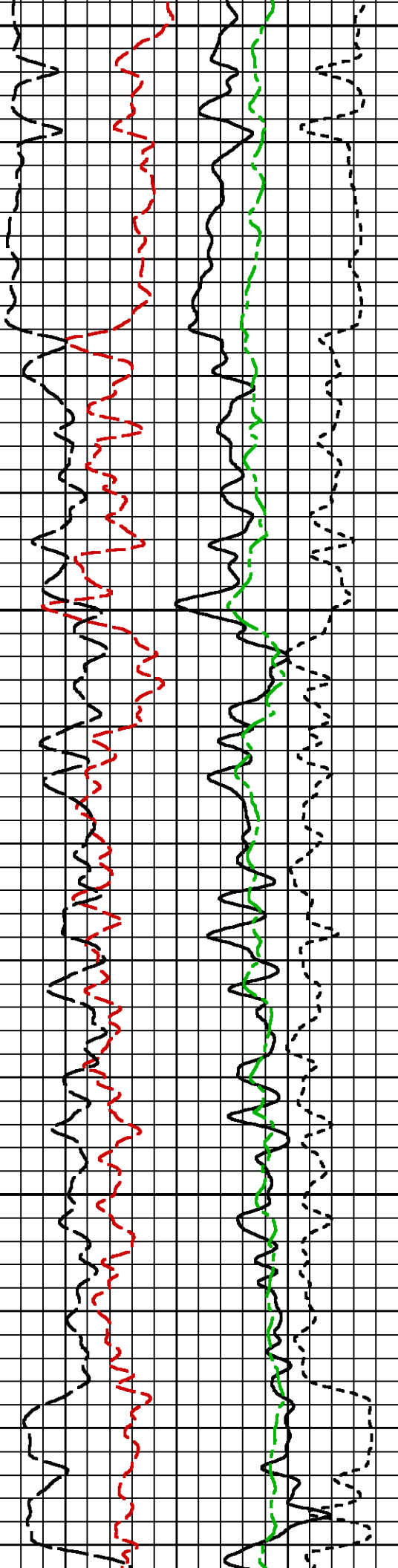


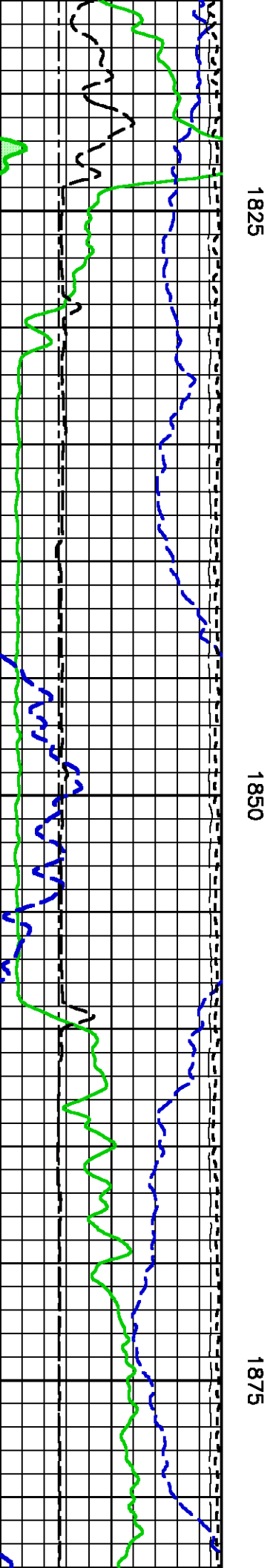
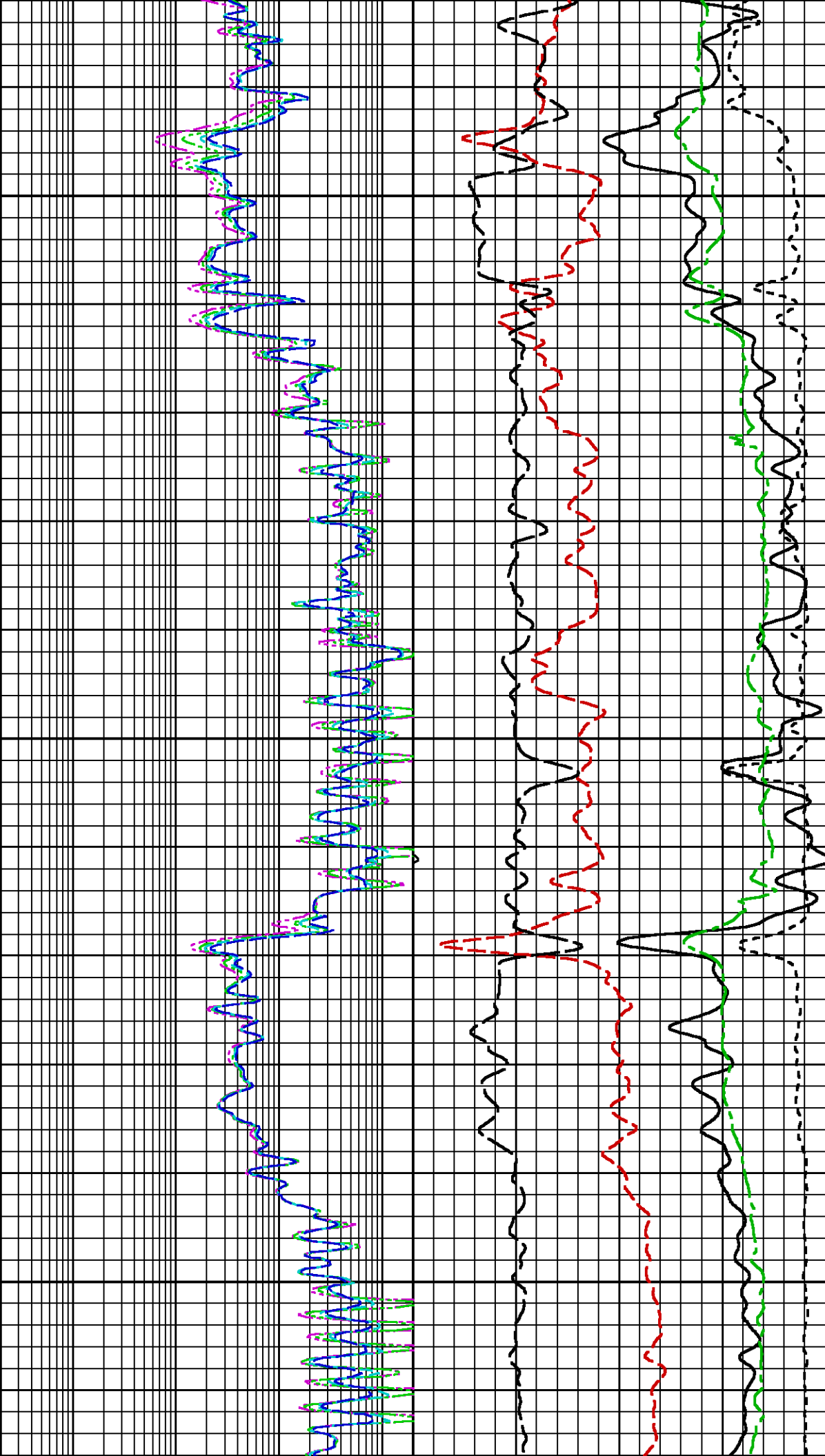
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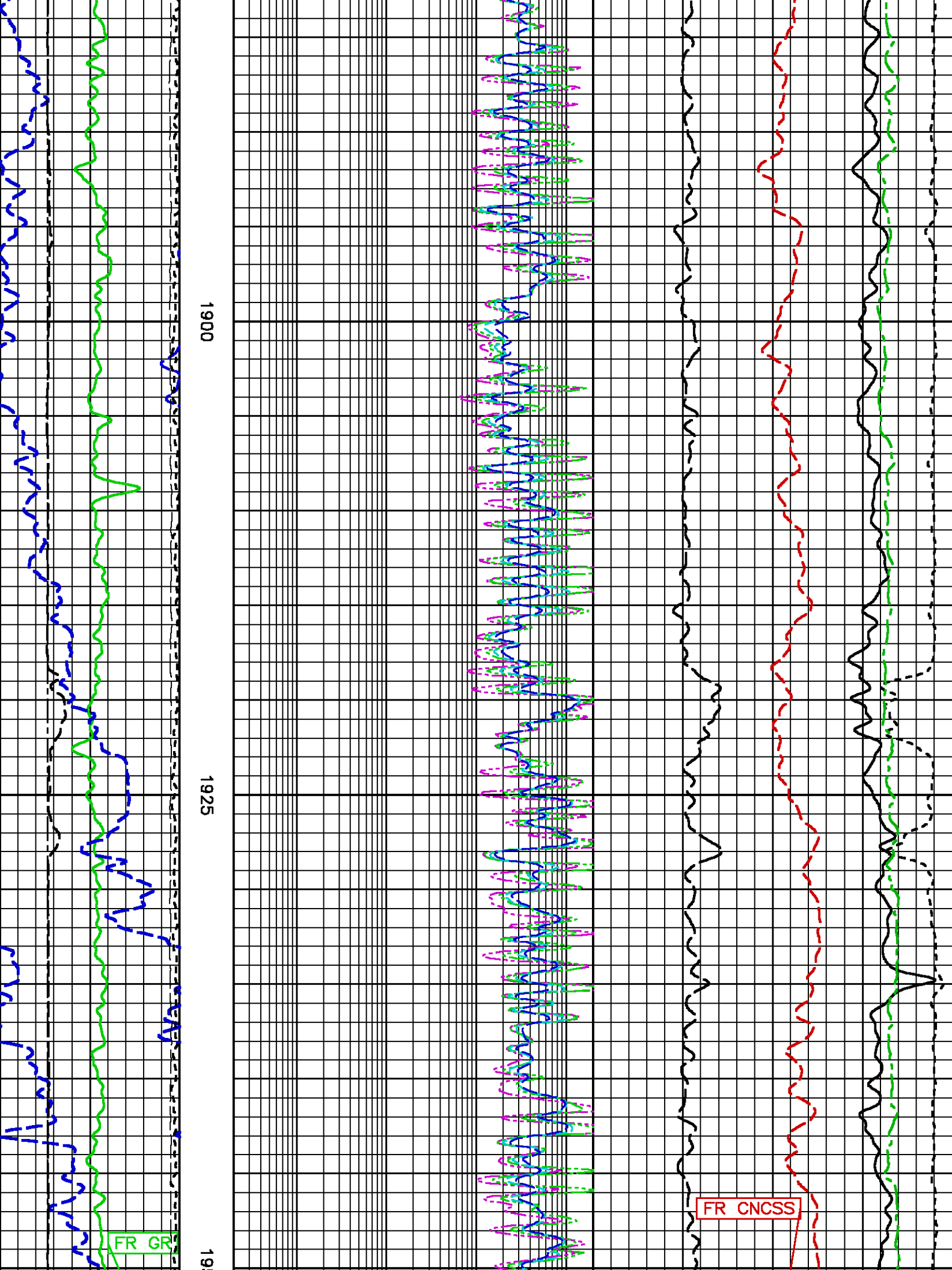
1650

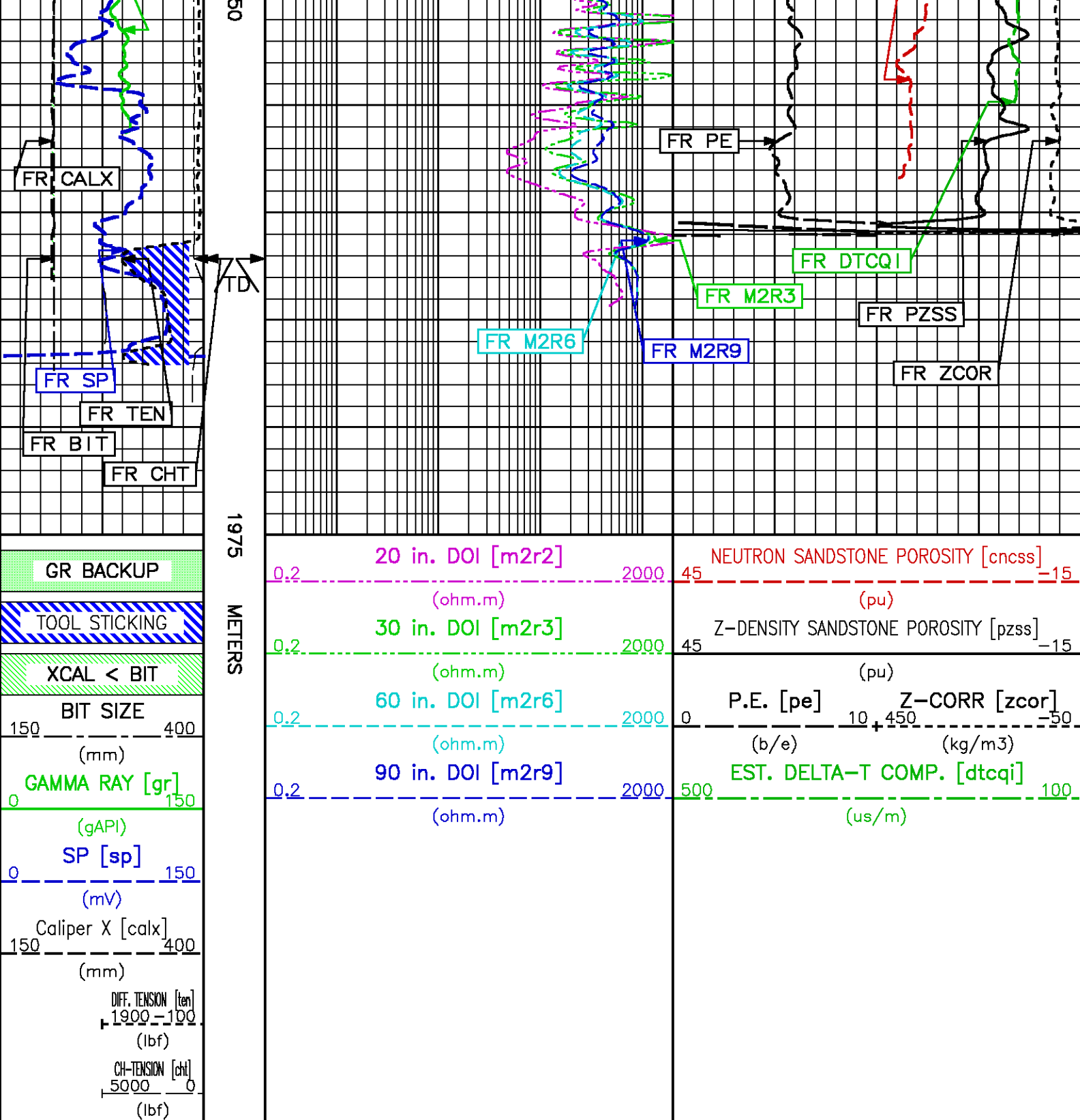
1675











REPEAT LOG - SANDSTONE MATRIX

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/pass/vulcan/k970a02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 1818.056 m BOTTOM DEPTH: 1965.344 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER ()	medium (1)		TOP	BOTTOM
GR MED RES	FILTER ()	medium (1)		"	"
CALIPER	FILTER ()	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"
CN MED RES	FILTER ()	medium (1)		"	"
ZDL MED RES	FILTER (hrd1*)	medium		"	"
	FILTER (hrd1s*)	medium		"	"
	FILTER (hrd2*)	medium		"	"
	FILTER (hrd2s*)	medium		"	"
	FILTER (soft*)	medium		"	"
SP-SPDH	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	0.000	mm	TOP	BOTTOM
	CASING THICKNESS	0.000	mm	"	"
BIT SIZE	BIT SIZE	216.000	mm	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh*)	USE CALIPER		"	"
	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	216.000	mm	"	"
	FIXED DIAMETER (mbh*)	216.000	mm	"	"
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	25.0	degC	"	"
	MUD SAMPLE RES	1.000	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	25.0	degC	"	"
	at BH REF DEPTH	0.0	m	"	"
	with TEMP GRADIENT	2.187	0.01 degC/m	"	"

ACCELERATION PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
ACCEL CORR SWITCH	ACCEL DEPTH CORR	CORRECTION ON		TOP	BOTTOM

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CN BOREHOLE CORRECTION	SALINITY	0	ppm	TOP	BOTTOM
	BOREHOLE CORRECTION	ON		"	"
CN CASING & CEMENT CORRECTION	CORRECTION	OFF		"	"
	BIT SIZE BEHIND CSNG	200.025	mm	"	"

ZDL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
DENSITY POROSITY	RHOfluid	1.000	g/cm3	TOP	BOTTOM
	RHOmatrix (sand)	2.650	g/cm3	"	"

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
HDIL TEMPERATURE CORRECTION	TEMP CORRECTION	ON		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"
	ABC to CALCULATE	STANDOFF		"	"
	STANDOFF	15.00	mm	"	"
	TOOL POSITION	ECCENTERED		"	"
	Rmud MULTIPLIER	1.000		"	"

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/pass/vulcan/ku833kr01.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 1874.806 m BOTTOM DEPTH: 1975.684 m

TOP DEPTH: 1834.896 m BOTTOM DEPTH: 1975.884 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT TENSION GR	FILTER ()	medium (1)		TOP	BOTTOM
	FILTER ()	medium (1)		''	''
	FILTER ()	medium (1)		''	''

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
BIT SIZE	BIT SIZE	200.025	mm	TOP	BOTTOM

ACOUSTIC AVAN CORRELATION

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
MONOPOLE COMPRESSIONAL	FORMATION TYPE	GENERIC (MEDIUM)		TOP	BOTTOM
	CORRELATION METHOD	NTH ROOT		''	''
	RESET TAPERS			''	''
	TAPER - LEFT END	100	us/m	''	''
	TAPER - RIGHT END	290	us/m	''	''
	FLOOR (UNIV. OPTION)	0.000		TOP	1969.741
		0.050		1969.741	BOTTOM

ACOUSTIC WAVEFORM FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
WAVEFORM FILTER - FULLWAVE	SURFACE WAVE FILTER	ON		TOP	BOTTOM
	LOW FREQ CUTOFF	1500	Hz	''	''
	HIGH FREQ CUTOFF	20000	Hz	''	''

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Nov 25 12:50:11 2009	BIT SIZE
F1:CALX	CALX	Nov 25 12:50:11 2009	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:CHT	CHT	Nov 25 12:50:11 2009	CABLE HEAD TENSION
F1:CNCSS	CNCSS	Nov 25 12:50:11 2009	BH SIZE CORR. SANDSTONE COMPENSATED NEUTRON POROSITY
F2:DTCQI	DTCQI	Nov 25 21:38:50 2009	COMPRESSIONAL WAVE SLOWNESS
F1:GR	GR	Nov 25 12:50:11 2009	GAMMA RAY
F1:M2R2	M2R2	Nov 25 12:50:11 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 20 INCH
F1:M2R3	M2R3	Nov 25 12:50:11 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 30 INCH
F1:M2R6	M2R6	Nov 25 12:50:11 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 60 INCH
F1:M2R9	M2R9	Nov 25 12:50:11 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 90 INCH
F1:PE	PE	Nov 25 12:50:11 2009	PHOTO ELECTRIC CROSS-SECTION
F1:PZSS	PZSS	Nov 25 12:50:11 2009	POROSITY FOR SANDSTONE MATRIX
F1:SP	SP	Nov 25 12:50:11 2009	SPONTANEOUS POTENTIAL
F1:TEN	TEN	Nov 25 12:50:11 2009	DIFFERENTIAL TENSION
F1:ZCOR	ZCOR	Nov 25 12:50:11 2009	DENSITY CORRECTION

CURVE MEASURE POINT OFFSET

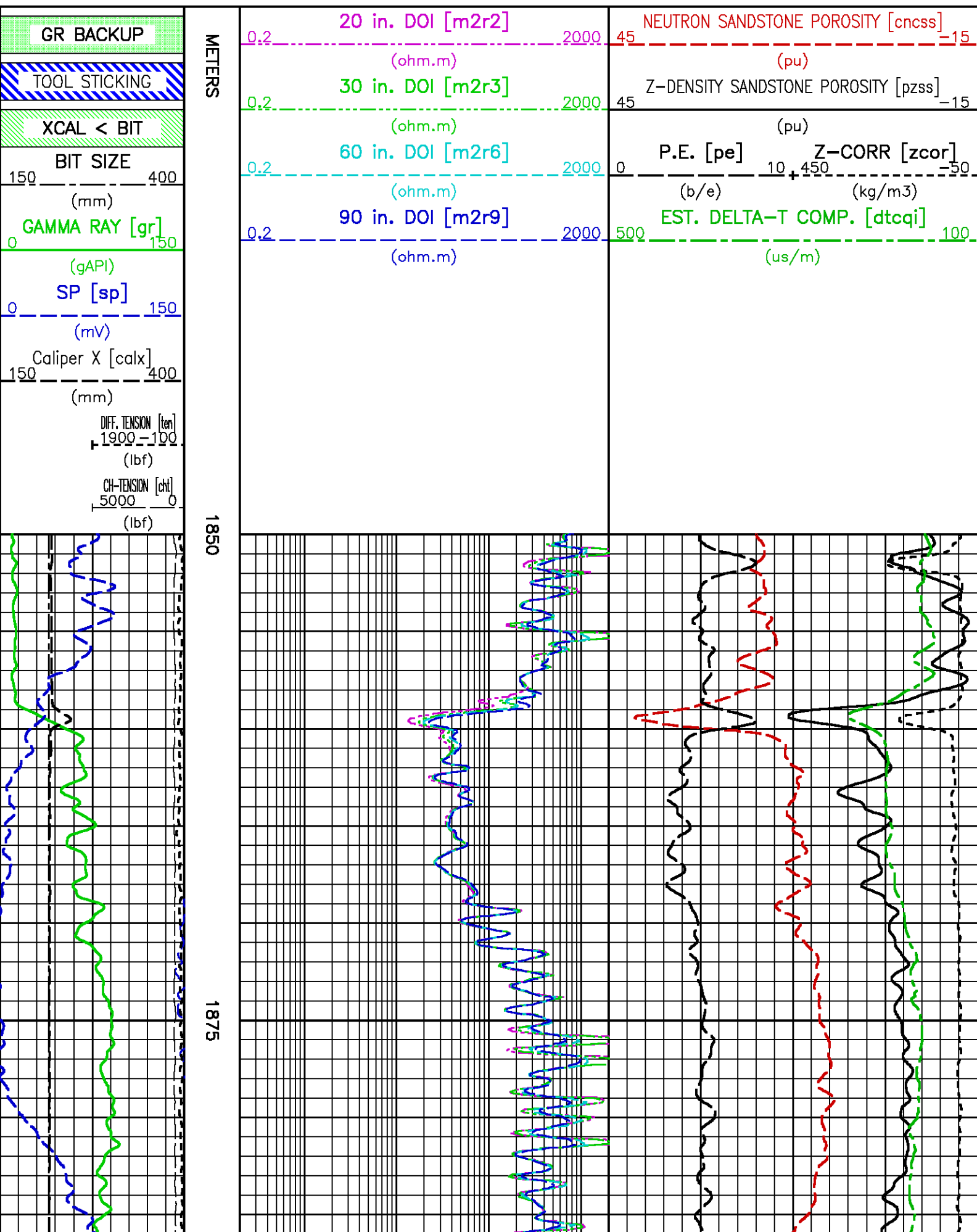
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	DTCQI	5.94	M2R6	0.84	SP	0.38
CALX	5.49	GR	10.67	M2R9	0.84	TEN	0.00
CHT	0.00	M2R2	0.84	PE	5.49	ZCOR	5.49
CNCSS	8.34	M2R3	0.84	PZSS	5.49		

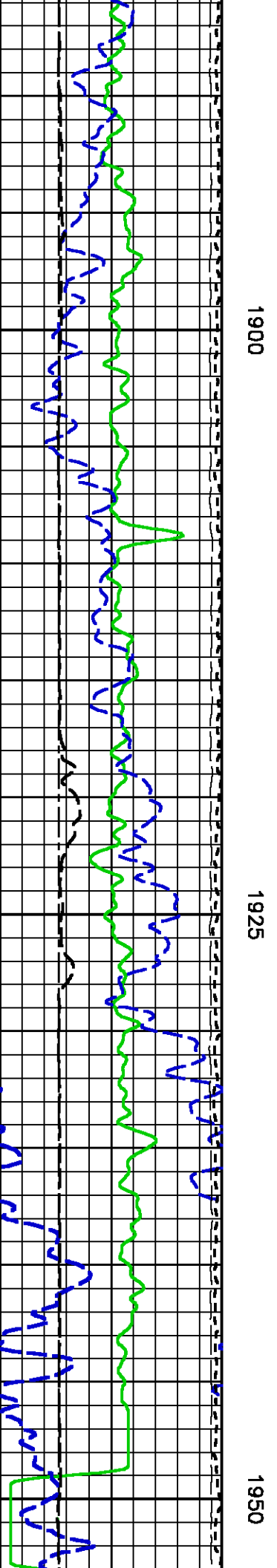
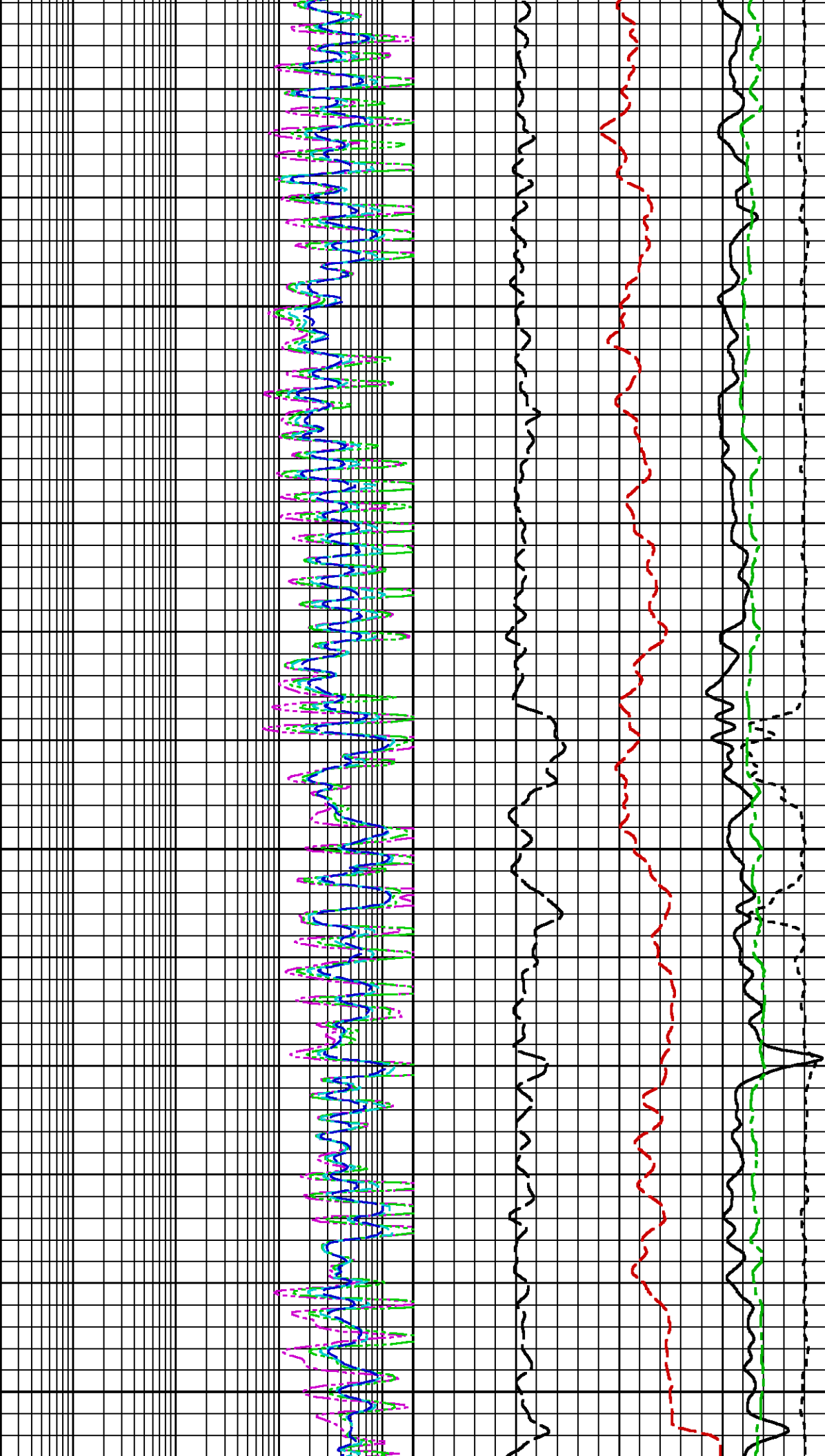
Presentation : cpu1:/dat1a/pass/vulcan/comp_rpt_ss.pdf [1:240 Scale]
Plot Interval : 1850 - 1969.77 Meters

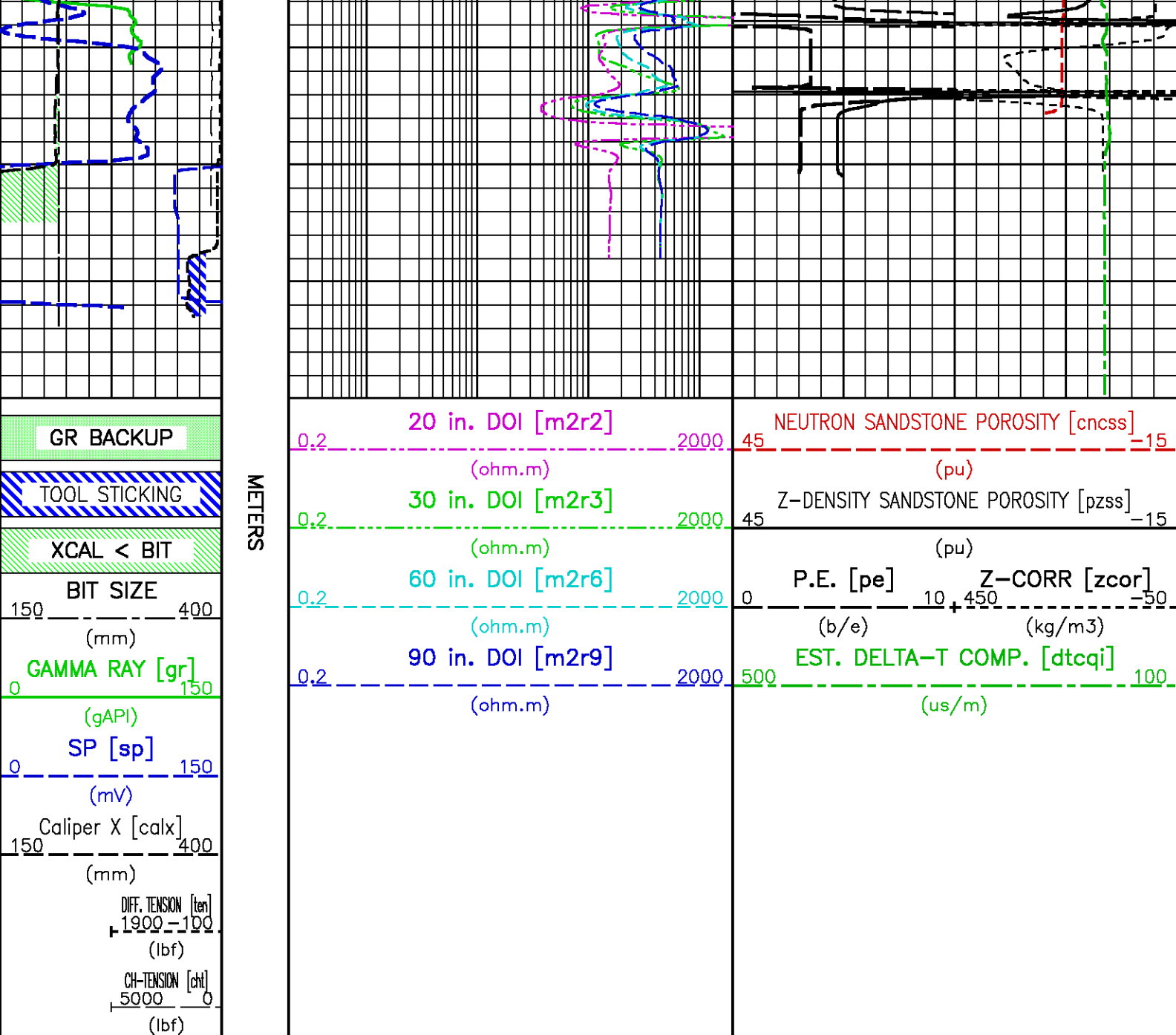
Data File 1 : F1 : cpu1:/dat1a/pass/vulcan/rpt.xtf
Created On : Nov 25 12:50:11 2009
Company : VULCAN MINERALS INC.
Well : VULCAN INVESTCAN RED BROOK #2
Field : RED BROOK
File Interval : 1812.19 - 1966.87 Meters
Oct : k970a

Data File 2 : F2 : cpu1:/dat1a/pass/vulcan/ku833kr01.xtf
Created On : Nov 25 21:38:50 2009
Company : VULCAN MINERALS INC.
Well : VULCAN INVESTCAN RED BROOK #2

Well : VOLCAN INTERSEAN RED BROOK #2
Field : RED BROOK
File Interval : 1817.67 - 1976.02 Meters
Oct : ku833k







CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/pass/vulcan/k970a.tp1

GR PRIMARY CALIBRATION SUMMARY

Tool #: 3518EG 10395627

DATE/TIME PERFORMED: Wed Nov 25 11:08:43 2009

Unit #: 3880TA HL6555

Jig Series: 4702NK DA_305

Background Calibrator ON Jig Value Mult Background Calibrator ON

Background	Calibrator	CN	DT	gAPI	Background	Calibrator	CN	DT	gAPI	Background	Calibrator	CN	DT	gAPI
33.71	786.82	185	0.246	8.28	193.28	0.230	0.280							

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 3518EG 10395627 DATE/TIME PERFORMED: Wed Nov 25 11:18:42 2009 DAYS SINCE CAL: 0

UNIT #: 3880TA HL6555 Jig: INTRNL N/A

Counts	TEMP (degC)	HV (V)
976.67	16.80	1361.74
929.00 1027.00	280.00	1237.00 1512.00

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 3518EG 10395627 DATE/TIME PERFORMED: Wed Nov 25 15:36:53 2009 DAYS SINCE CAL: 0

UNIT #: 3880TA HL6555 Jig: INTRNL N/A

Counts	TEMP (degC)	HV (V)
976.67	21.35	1361.74
929.00 1027.00	280.00	1237.00 1512.00

CN PRIMARY CALIBRATION SUMMARY

TOOL #: 2436XA 10394243 DATE/TIME PERFORMED: Sat Nov 21 14:14:20 2009

UNIT #: 3880TA HL6555 CALIBRATOR #: 2437XB 113140 SOURCE #: 4718XA _N-929

SSN DT CPS	LSN DT CPS	SSN/LSN	MCF	CNRATIO	CN PU
4733.57	811.07	5.83618	0.98301	5.73700	25.241
			0.95000 1.05000		

CN BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2436XA 10394243 DATE/TIME PERFORMED: Wed Nov 25 11:19:10 2009 DAYS SINCE CAL: 3

UNIT #: 3880TA HL6555 CALIBRATOR #: INTRNL N/A

SSN DT CPS	LSN DT CPS	SSN/LSN	TEMP (degC)	HV (V)	LV (V)
991.06	993.42	0.99762	12.4	1341.0	4.642
		0.95000 1.05000	138.0	1250.0 1450.0	4.300 5.000

CN AFTER LOG VERIFICATION SUMMARY

TOOL #: 2436XA 10394243 DATE/TIME PERFORMED: Wed Nov 25 15:36:30 2009 DAYS SINCE CAL: 4

UNIT #: 3880TA HL6555 CALIBRATOR #: INTRNL N/A

SSN DT CPS	LSN DT CPS	SSN/LSN	TEMP (degC)	HV (V)	LV (V)
991.40	993.42	0.99797	16.9	1341.0	4.642
		0.95000 1.05000	138.0	1250.0 1450.0	4.300 5.000

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 2223XA 10116105 DATE/TIME PERFORMED: Sat Nov 21 16:26:08 2009

UNIT #: 3880TA HL6555

	SIZE (mm)	VALUE	MULTIPLIER	ADD
SMALL RING (Arm)	203.000	1708.0		
LARGE RING (Arm)	305.000	2920.0	0.08416	59.25740
PAD CLOSED		1552.0	0.06350	-98.55199

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10116105 DATE/TIME PERFORMED: Wed Nov 25 12:10:50 2009 DAYS SINCE CAL: 3

UNIT #: 3880TA HL6555

	VALUE	MULTIPLIER	ADD	SIZE (mm)
ARM	1988.0	0.08416	59.25740	226.6
PAD	1612.0	0.06350	-98.55199	3.8

	ACTUAL (mm)	MEASURED (mm)
DIAMETER (arm+pad)	226.600	230.4
		216.4 236.8

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10116105 DATE/TIME PERFORMED: Wed Nov 25 15:35:23 2009 DAYS SINCE CAL: 3

UNIT #: 3880TA HL6555

	VALUE	MULTIPLIER	ADD	SIZE (mm)
ARM	2012.0	0.08416	59.25740	228.6
PAD	1615.6	0.06350	-98.55199	4.0

	ACTUAL (mm)	MEASURED (mm)
DIAMETER (arm+pad)	226.600	232.6
		216.4 236.8

ZDL PRIMARY CALIBRATION SUMMARY

TOOL: 2223XA 10116105

DATE/TIME PERFORMED: Sat Nov 21 16:11:03 2009

UNIT: 3880TA HL6555

CALB BLKS: 2225XA 112691

CS SRC: 4705XA 18204B

PAD TYPE: PADTYP 7.5" PAD

	SS CS PK (Channel)	LS CS PK (Channel)	SS_BKGD (cps)	LS BKGD (cps)		
	224.5	224.0	1218.5	1560.6		
	220.0 230.0	220.0 230.0				
	SS (cps)	LS (cps)	SHR	DEN (kg/m3)	CORR (kg/m3)	PE (b/e)
MG (LO PE)	40850.3	14562.9	0.789	1700.000	2.000	1.860
			0.720 0.890			
AL	25657.8	1677.3		2649.000	-19.000	
AL + SHIM	33975.5	2890.0		2550.000	101.000	
MG + SHIM (HI PE)	20546.3	7134.7	0.308			8.260
			0.280 0.360			
RATIO AL + SHIM/AL	1.32	1.72				
	1.30 1.40	1.60 1.80				
RATIO MG/AL	1.59	8.68				
	1.58 1.70	8.55 9.55				

ZDL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10116105 DATE/TIME PERFORMED: Wed Nov 25 11:22:04 2009 DAYS SINCE CAL: 3

UNIT #: 3880TA HL6555

	TOTAL (cps)	CSPK (Channel)	HV (V)
LS	3342.1	224.9	1453.0
	3332.1 3352.1	220.0 230.0	1250.0 1550.0
SS	22354.8	224.2	1424.7
	22344.8 22364.8	220.0 230.0	1250.0 1550.0

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	0.0030 -0.2000 0.2000	-0.0004 -0.1000 0.1000	-0.0005 -0.1000 0.1000	0.0000 -0.1000 0.1000	-0.0007 -0.1000 0.1000	-0.0004 -0.1000 0.1000	0.0000 -0.1000 0.1000	-0.0002 -0.1000 0.1000
Coil 0 Q	-0.0036 -0.5000 0.5000	-0.0009 -0.2000 0.2000	0.0006 -0.1000 0.1000	-0.0001 -0.1000 0.1000	-0.0002 -0.1000 0.1000	-0.0000 -0.1000 0.1000	-0.0001 -0.1000 0.1000	0.0001 -0.1000 0.1000
Coil 1 R	-0.0061 -0.2000 0.2000	0.0014 -0.1000 0.1000	-0.0004 -0.1000 0.1000	-0.0005 -0.1000 0.1000	0.0005 -0.1000 0.1000	-0.0007 -0.1000 0.1000	-0.0012 -0.1000 0.1000	0.0004 -0.1000 0.1000
Coil 1 Q	-0.0081 -0.5000 0.5000	0.0013 -0.2000 0.2000	-0.0022 -0.1000 0.1000	0.0005 -0.1000 0.1000	-0.0005 -0.1000 0.1000	-0.0004 -0.1000 0.1000	0.0008 -0.1000 0.1000	0.0005 -0.1000 0.1000
Coil 2 R	-0.0046 -0.2000 0.2000	-0.0018 -0.1000 0.1000	-0.0010 -0.1000 0.1000	-0.0016 -0.1000 0.1000	0.0025 -0.1000 0.1000	-0.0017 -0.1000 0.1000	0.0010 -0.1000 0.1000	-0.0001 -0.1000 0.1000
Coil 2 Q	-0.0050 -0.5000 0.5000	-0.0000 -0.2000 0.2000	-0.0027 -0.1000 0.1000	0.0009 -0.1000 0.1000	-0.0009 -0.1000 0.1000	0.0009 -0.1000 0.1000	-0.0013 -0.1000 0.1000	-0.0001 -0.1000 0.1000
Coil 3 R	-0.0054 -0.3000 0.3000	-0.0051 -0.1000 0.1000	0.0009 -0.1000 0.1000	-0.0007 -0.1000 0.1000	0.0014 -0.1000 0.1000	0.0021 -0.1000 0.1000	-0.0025 -0.1000 0.1000	0.0008 -0.1000 0.1000
Coil 3 Q	-0.0058 -0.5000 0.5000	0.0040 -0.2000 0.2000	0.0022 -0.1000 0.1000	-0.0004 -0.1000 0.1000	0.0007 -0.1000 0.1000	-0.0011 -0.1000 0.1000	0.0018 -0.1000 0.1000	0.0020 -0.1000 0.1000
Coil 4 R	-0.0786 -0.5000 0.5000	-0.0088 -0.2000 0.2000	0.0121 -0.2000 0.2000	-0.0062 -0.2000 0.2000	-0.0010 -0.2000 0.2000	-0.0002 -0.2000 0.2000	0.0031 -0.2000 0.2000	-0.0016 -0.2000 0.2000
Coil 4 Q	-0.0039 -1.0000 1.0000	0.0172 -0.4000 0.4000	-0.0129 -0.2000 0.2000	-0.0017 -0.2000 0.2000	0.0051 -0.2000 0.2000	-0.0061 -0.2000 0.2000	0.0018 -0.2000 0.2000	-0.0009 -0.2000 0.2000

Coil 5 R	-0.1360 -1.2000 1.2000	-0.0163 -0.4000 0.4000	0.0028 -0.4000 0.4000	0.0001 -0.4000 0.4000	0.0036 -0.4000 0.4000	0.0070 -0.4000 0.4000	-0.0046 -0.4000 0.4000	-0.0023 -0.4000 0.4000
Coil 5 Q	-0.0053 -1.5000 1.5000	0.0345 -0.8000 0.8000	-0.0019 -0.4000 0.4000	-0.0109 -0.4000 0.4000	0.0042 -0.4000 0.4000	0.0057 -0.4000 0.4000	-0.0020 -0.4000 0.4000	-0.0084 -0.4000 0.4000

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	160.76 136.00 186.00	159.34 134.00 184.00	156.45 131.00 181.00	152.14 126.00 176.00	146.45 122.00 170.00	139.46 118.00 161.00	131.19 112.00 150.00	121.79 105.00 139.00
Coil 0 P	7.489 6.000 9.000	25.330 21.000 30.000	42.614 35.000 50.000	59.839 49.000 71.000	77.054 63.000 91.000	94.283 77.000 109.000	111.510 92.000 130.000	128.681 106.000 151.000
Coil 1 M	279.91 238.00 328.00	277.51 235.00 325.00	272.60 230.00 320.00	265.22 225.00 312.00	255.45 218.00 302.00	243.29 208.00 288.00	228.76 196.00 266.00	212.03 184.00 244.00
Coil 1 P	7.858 6.000 9.000	26.256 21.000 30.000	44.153 35.000 51.000	62.018 49.000 71.000	79.916 63.000 92.000	97.870 78.000 112.000	115.867 93.000 130.000	133.873 107.000 151.000
Coil 2 M	573.70 479.00 659.00	567.61 474.00 654.00	555.42 463.00 643.00	537.58 450.00 622.00	514.52 432.00 602.00	486.89 412.00 572.00	455.06 390.00 540.00	419.58 359.00 499.00
Coil 2 P	8.067 6.000 9.000	26.778 21.000 31.000	44.951 35.000 51.000	63.011 49.000 71.000	80.994 63.000 92.000	98.924 76.000 115.000	116.779 92.000 135.000	134.534 105.000 155.000
Coil 3 M	936.84 772.00 1060.00	928.07 764.00 1050.00	910.19 752.00 1030.00	883.51 728.00 1010.00	848.61 700.00 970.00	805.86 665.00 925.00	755.84 628.00 868.00	699.18 589.00 799.00
Coil 3 P	7.965 6.000 10.000	26.509 21.000 30.000	44.545 35.000 51.000	62.519 49.000 72.000	80.463 63.000 93.000	98.406 76.000 114.000	116.343 90.000 135.000	134.218 104.000 156.000
Coil 4 M	1477.4 1210.0 1700.0	1463.4 1205.0 1690.0	1434.6 1180.0 1650.0	1391.9 1140.0 1590.0	1335.5 1120.0 1530.0	1266.3 1070.0 1450.0	1185.6 1000.0 1350.0	1095.1 942.0 1240.0
Coil 4 P	8.063 6.000 10.000	26.742 21.000 31.000	44.934 35.000 52.000	63.069 49.000 73.000	81.179 63.000 93.000	99.294 77.000 114.000	117.361 91.000 135.000	135.314 105.000 156.000
Coil 5 M	2974.9 2450.0 3450.0	2947.2 2420.0 3400.0	2889.7 2410.0 3320.0	2804.0 2350.0 3200.0	2690.6 2280.0 3080.0	2553.0 2150.0 2950.0	2391.4 2020.0 2750.0	2212.1 1870.0 2570.0
Coil 5 P	8.135 6.000 10.000	26.906 20.000 31.000	45.207 35.000 52.000	63.444 49.000 73.000	81.661 63.000 94.000	99.866 79.000 113.000	118.031 93.000 134.000	136.076 106.000 156.000

AM Factor	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	-705 -3200 940	-571 -1400 -20	-486 -930 -150	-430 -760 -160	-387 -660 -130	-353 -600 -120	-324 -550 -110	-301 -520 -92
Coil 0 Q	-134 -15000 11000	-273 -5800 3800	-284 -3700 2100	-296 -2700 1400	-304 -2200 1000	-313 -1800 790	-319 -1600 620	-325 -1500 490
Coil 1 R	-101 -750 460	-135 -360 83	-131 -280 9	-123 -230 -10	-115 -200 -26	-107 -180 -35	-99 -160 -46	-94 -150 -49
Coil 1 Q	-230 -3300 3300	-111 -1100 960	-88 -630 530	-83 -470 360	-82 -380 260	-81 -320 190	-81 -290 150	-79 -260 120
Coil 2 R	8.5 -85.0 76.0	-26.3 -64.0 -0.4	-30.9 -57.0 -12.0	-29.5 -51.0 -16.0	-28.2 -46.0 -17.0	-26.4 -42.0 -16.0	-24.2 -39.0 -15.0	-23.2 -37.0 -13.0
Coil 2 Q	261.9 -1500.0 1900.0	89.1 -500.0 610.0	52.3 -290.0 350.0	35.3 -220.0 260.0	25.9 -160.0 190.0	21.2 -140.0 160.0	18.0 -110.0 130.0	17.3 -99.0 120.0
Coil 3 R	-0.3 -23.0 21.0	-8.4 -22.0 1.6	-9.3 -21.0 -1.3	-9.4 -20.0 -1.8	-8.6 -19.0 -2.0	-8.1 -19.0 -1.3	-7.3 -19.0 -0.8	-7.1 -19.0 -0.0
Coil 3 Q	132.3 -540.0 530.0	47.8 -180.0 180.0	31.5 -100.0 110.0	25.8 -71.0 81.0	23.6 -51.0 66.0	23.0 -37.0 58.0	24.0 -28.0 53.0	25.2 -21.0 51.0
Coil 4 R	0.43 -18.00 13.00	-4.61 -12.00 2.70	-4.54 -11.00 1.50	-4.02 -9.80 0.52	-3.88 -9.90 0.96	-3.65 -10.00 1.50	-3.31 -11.00 2.30	-3.69 -11.00 2.60
Coil 4 Q	28.74 -250.00 280.00	11.37 -79.00 98.00	10.67 -43.00 64.00	11.77 -27.00 51.00	13.72 -18.00 46.00	16.35 -11.00 42.00	18.78 -5.50 42.00	22.20 -1.00 42.00
Coil 5 R	-4.12 -56.00 51.00	-2.43 -8.40 3.60	-1.87 -6.90 1.10	-2.05 -6.90 1.20	-1.96 -9.30 2.90	-1.96 -14.00 6.30	-1.92 -19.00 9.60	-2.20 -24.00 13.00

Coil 5 Q	6.48	4.69	6.14	8.39	10.97	13.32	16.16	18.86
	-88.00 69.00	-26.00 27.00	-14.00 22.00	-7.00 22.00	-2.50 24.00	1.10 26.00	4.10 29.00	7.10 32.00

MM Factor 10 KHz 30 KHz 50 KHz 70 KHz 90 KHz 110 KHz 130 KHz 150 KHz

Coil 0 M	0.973	0.983	0.988	0.990	0.991	0.990	0.989	0.988
	0.850 1.100	0.860 1.100	0.870 1.100	0.880 1.100	0.880 1.100	0.880 1.100	0.880 1.100	0.880 1.100
Coil 0 P	-0.445	-0.650	-0.538	-0.408	-0.324	-0.259	-0.197	-0.156
	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500
Coil 1 M	0.965	0.975	0.980	0.982	0.982	0.982	0.981	0.979
	0.850 1.100	0.860 1.100	0.870 1.100	0.880 1.100	0.880 1.100	0.880 1.100	0.880 1.100	0.880 1.100
Coil 1 P	-0.410	-0.643	-0.524	-0.398	-0.301	-0.232	-0.188	-0.147
	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500
Coil 2 M	0.985	0.986	0.986	0.986	0.986	0.986	0.985	0.984
	0.890 1.100	0.890 1.100	0.890 1.100	0.890 1.100	0.890 1.100	0.890 1.100	0.890 1.100	0.890 1.100
Coil 2 P	-0.034	-0.088	-0.106	-0.110	-0.117	-0.113	-0.099	-0.109
	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500
Coil 3 M	0.998	0.999	0.999	0.999	0.999	0.999	0.999	0.998
	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100
Coil 3 P	-0.018	-0.065	-0.084	-0.076	-0.089	-0.064	-0.028	-0.027
	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500
Coil 4 M	0.997	0.998	0.999	0.999	1.000	0.999	0.998	0.999
	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100
Coil 4 P	-0.024	-0.080	-0.103	-0.080	-0.050	-0.047	0.009	-0.003
	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500
Coil 5 M	0.991	0.992	0.993	0.993	0.995	0.995	0.996	0.996
	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100	0.900 1.100
Coil 5 P	-0.054	-0.111	-0.148	-0.162	-0.131	-0.064	-0.071	-0.082
	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500	-1.500 1.500

PARMS TCID 0 TCID 1 Cal Temp T Factor

(degC)

IDs 2.689 0.725 19.0 1.00

HDIL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1530XA 10132721 DATE/TIME PERFORMED: Wed Nov 25 12:49:50 2009 DAYS SINCE CAL: 97

UNIT #: 3880TA HL6555

ZERO DATA(mv) 10 KHz 30 KHz 50 KHz 70 KHz 90 KHz 110 KHz 130 KHz 150 KHz

Coil 0 R	0.003	0.000	-0.000	0.001	-0.001	0.000	0.001	0.000
	-0.200 0.200	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 0 Q	-0.003	-0.001	-0.001	-0.000	0.000	0.001	-0.000	0.001
	-0.500 0.500	-0.200 0.200	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 1 R	-0.006	0.000	-0.001	0.000	-0.001	0.000	-0.001	0.001
	-0.200 0.200	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 1 Q	-0.010	0.000	-0.000	0.001	-0.001	0.000	-0.000	0.001
	-0.500 0.500	-0.200 0.200	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 2 R	0.001	-0.004	0.000	0.000	0.004	-0.002	0.002	-0.001
	-0.200 0.200	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100
Coil 2 Q	-0.009	0.000	0.000	-0.003	0.000	0.001	0.001	-0.000
	-0.500 0.500	-0.200 0.200	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100	-0.100 0.100

Coil 3 R	0.001 -0.300 0.300	-0.004 -0.100 0.100	0.003 -0.100 0.100	-0.003 -0.100 0.100	-0.003 -0.100 0.100	0.001 -0.100 0.100	0.001 -0.100 0.100	-0.001 -0.100 0.100
Coil 3 Q	-0.009 -0.500 0.500	0.000 -0.200 0.200	0.004 -0.100 0.100	-0.001 -0.100 0.100	-0.002 -0.100 0.100	-0.003 -0.100 0.100	-0.004 -0.100 0.100	-0.003 -0.100 0.100
Coil 4 R	-0.043 -0.500 0.500	-0.008 -0.200 0.200	0.003 -0.200 0.200	-0.009 -0.200 0.200	-0.000 -0.200 0.200	-0.001 -0.200 0.200	0.007 -0.200 0.200	-0.006 -0.200 0.200
Coil 4 Q	-0.011 -1.000 1.000	0.013 -0.400 0.400	0.002 -0.200 0.200	-0.000 -0.200 0.200	0.008 -0.200 0.200	-0.008 -0.200 0.200	0.003 -0.200 0.200	0.004 -0.200 0.200
Coil 5 R	-0.095 -1.200 1.200	-0.022 -0.400 0.400	-0.007 -0.400 0.400	-0.001 -0.400 0.400	-0.000 -0.400 0.400	0.001 -0.400 0.400	-0.003 -0.400 0.400	0.006 -0.400 0.400
Coil 5 Q	-0.025 -1.500 1.500	0.021 -0.800 0.800	-0.007 -0.400 0.400	-0.008 -0.400 0.400	-0.010 -0.400 0.400	0.006 -0.400 0.400	-0.009 -0.400 0.400	-0.002 -0.400 0.400

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	160.78 136.00 186.00	159.36 134.00 184.00	156.49 131.00 181.00	152.19 126.00 176.00	146.54 122.00 170.00	139.51 118.00 161.00	131.26 112.00 150.00	121.83 105.00 139.00
Coil 0 P	7.503 -1.000 12.000	25.336 19.000 30.000	42.625 35.000 50.000	59.855 49.000 71.000	77.071 63.000 91.000	94.316 77.000 110.000	111.534 92.000 130.000	128.712 105.000 151.000
Coil 1 M	279.85 237.00 327.00	277.43 235.00 325.00	272.56 230.00 320.00	265.20 225.00 312.00	255.44 218.00 302.00	243.35 208.00 288.00	228.80 196.00 266.00	212.07 184.00 244.00
Coil 1 P	7.895 -1.000 12.000	26.271 19.000 30.000	44.168 35.000 51.000	62.040 49.000 71.000	79.931 63.000 92.000	97.891 77.000 112.000	115.902 92.000 132.000	133.903 105.000 153.000
Coil 2 M	574.21 479.00 659.00	568.08 474.00 654.00	555.92 463.00 643.00	538.10 450.00 622.00	515.11 432.00 602.00	487.48 412.00 572.00	455.61 390.00 540.00	419.98 359.00 499.00
Coil 2 P	8.099 -1.000 12.000	26.789 19.000 31.000	44.960 35.000 51.000	63.022 49.000 71.000	81.007 63.000 92.000	98.933 77.000 114.000	116.797 92.000 135.000	134.539 105.000 156.000
Coil 3 M	937.25 772.00 1060.00	928.40 764.00 1050.00	910.58 752.00 1030.00	883.97 728.00 1010.00	849.18 700.00 970.00	806.45 665.00 925.00	756.30 628.00 868.00	699.50 589.00 799.00
Coil 3 P	7.989 -2.000 13.000	26.522 19.000 31.000	44.558 35.000 52.000	62.532 49.000 72.000	80.482 63.000 93.000	98.434 77.000 114.000	116.369 92.000 135.000	134.255 105.000 156.000
Coil 4 M	1479.0 1210.0 1700.0	1464.8 1205.0 1690.0	1436.3 1180.0 1650.0	1393.4 1140.0 1590.0	1337.2 1120.0 1530.0	1267.9 1070.0 1450.0	1187.2 1000.0 1350.0	1096.8 942.0 1240.0
Coil 4 P	8.073 -2.000 13.000	26.747 19.000 31.000	44.941 35.000 52.000	63.083 49.000 73.000	81.195 63.000 93.000	99.308 78.000 114.000	117.397 92.000 135.000	135.325 105.000 156.000
Coil 5 M	2978.2 2450.0 3450.0	2950.4 2420.0 3400.0	2893.2 2410.0 3320.0	2807.5 2350.0 3200.0	2695.2 2280.0 3080.0	2556.8 2150.0 2950.0	2395.6 2020.0 2750.0	2214.7 1870.0 2570.0
Coil 5 P	8.144 -2.000 13.000	26.905 19.000 31.000	45.207 35.000 52.000	63.449 49.000 73.000	81.673 63.000 94.000	99.870 79.000 114.000	118.032 93.000 135.000	136.090 106.000 156.000

HDIL AFTER LOG VERIFICATION SUMMARY

TOOL #: 1530XA 10132721 DATE/TIME PERFORMED: Wed Nov 25 15:37:59 2009 DAYS SINCE CAL: 98

UNIT #: 3880TA HL6555

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	0.003 -0.077 0.083	-0.000 -0.060 0.060	0.001 -0.030 0.030	0.000 -0.029 0.031	0.000 -0.031 0.029	-0.000 -0.030 0.030	-0.001 -0.029 0.031	-0.001 -0.030 0.030
Coil 0 Q	-0.003 -0.043 0.037	-0.001 -0.121 0.119	-0.000 -0.031 0.029	-0.000 -0.030 0.030	0.001 -0.030 0.030	-0.000 -0.029 0.031	-0.000 -0.030 0.030	0.000 -0.029 0.031
Coil 1 R	-0.008 -0.086 0.074	0.001 -0.050 0.050	0.002 -0.031 0.029	0.000 -0.030 0.030	0.000 -0.031 0.029	-0.001 -0.030 0.030	0.000 -0.031 0.029	0.001 -0.029 0.031
Coil 1 Q	-0.013 -0.091 0.065	-0.006 -0.050 0.044	-0.006 -0.031 0.029	-0.004 -0.030 0.030	-0.006 -0.031 0.029	-0.004 -0.030 0.030	-0.006 -0.031 0.029	-0.004 -0.029 0.031

Coil 1 Q	-0.010 -0.410 0.390	0.000 -0.100 0.100	-0.002 -0.030 0.030	-0.001 -0.029 0.031	0.000 -0.031 0.029	0.001 -0.030 0.030	0.000 -0.030 0.030	0.001 -0.029 0.031
Coil 2 R	-0.001 -0.069 0.071	0.002 -0.034 0.026	0.000 -0.030 0.030	0.002 -0.030 0.030	0.002 -0.026 0.034	-0.001 -0.032 0.028	0.000 -0.028 0.032	-0.000 -0.031 0.029
Coil 2 Q	-0.010 -0.359 0.341	0.001 -0.100 0.100	0.000 -0.030 0.030	-0.001 -0.033 0.027	-0.000 -0.030 0.030	0.001 -0.029 0.031	0.000 -0.029 0.031	-0.000 -0.030 0.030
Coil 3 R	-0.001 -0.039 0.041	-0.009 -0.044 0.036	0.003 -0.037 0.043	0.003 -0.043 0.037	-0.002 -0.043 0.037	-0.001 -0.039 0.041	0.001 -0.039 0.041	0.001 -0.041 0.039
Coil 3 Q	-0.012 -0.209 0.191	0.002 -0.080 0.080	-0.002 -0.036 0.044	0.000 -0.041 0.039	-0.003 -0.042 0.038	-0.001 -0.043 0.037	0.002 -0.044 0.036	-0.003 -0.043 0.037
Coil 4 R	-0.058 -0.103 0.017	-0.008 -0.068 0.052	0.013 -0.057 0.063	-0.005 -0.069 0.051	0.002 -0.060 0.060	0.005 -0.061 0.059	-0.003 -0.053 0.067	0.001 -0.066 0.054
Coil 4 Q	-0.023 -0.311 0.289	0.010 -0.087 0.113	0.003 -0.058 0.062	-0.001 -0.060 0.060	0.005 -0.052 0.068	0.002 -0.068 0.052	0.001 -0.057 0.063	0.001 -0.056 0.064
Coil 5 R	-0.122 -0.215 0.025	-0.031 -0.142 0.098	-0.002 -0.127 0.113	0.000 -0.121 0.119	-0.001 -0.120 0.120	0.006 -0.119 0.121	0.012 -0.123 0.117	0.004 -0.114 0.126
Coil 5 Q	-0.024 -0.625 0.575	0.018 -0.229 0.271	-0.002 -0.127 0.113	-0.012 -0.128 0.112	-0.003 -0.130 0.110	-0.002 -0.114 0.126	-0.003 -0.129 0.111	-0.001 -0.122 0.118

ELEC. GAINS 10 KHz 30 KHz 50 KHz 70 KHz 90 KHz 110 KHz 130 KHz 150 KHz

Coil 0 M	160.76 157.56 163.99	159.34 156.17 162.55	156.46 153.36 159.62	152.12 149.15 155.24	146.47 143.61 149.47	139.44 136.72 142.30	131.23 128.63 133.88	121.79 119.40 124.27
Coil 0 P	7.496 4.503 10.503	25.335 22.336 28.336	42.625 39.625 45.625	59.853 56.855 62.855	77.071 74.071 80.071	94.284 91.316 97.316	111.528 108.534 114.534	128.695 125.712 131.712
Coil 1 M	279.87 274.25 285.44	277.46 271.88 282.98	272.57 267.11 278.01	265.16 259.89 270.50	255.39 250.33 260.55	243.22 238.49 248.22	228.79 224.23 233.38	211.98 207.83 216.31
Coil 1 P	7.889 4.895 10.895	26.272 23.271 29.271	44.171 41.168 47.168	62.036 59.040 65.040	79.938 76.931 82.931	97.876 94.891 100.891	115.895 112.902 118.902	133.882 130.903 136.903
Coil 2 M	574.09 562.73 585.69	567.96 556.72 579.44	555.75 544.80 567.04	537.84 527.34 548.86	514.89 504.81 525.41	487.07 477.73 497.23	455.46 446.49 464.72	419.90 411.58 428.38
Coil 2 P	8.095 5.099 11.099	26.792 23.789 29.789	44.964 41.960 47.960	63.020 60.022 66.022	81.018 78.007 84.007	98.922 95.933 101.933	116.792 113.797 119.797	134.546 131.539 137.539
Coil 3 M	937.11 918.51 956.00	928.31 909.83 946.97	910.40 892.37 928.79	883.67 866.29 901.65	848.87 832.20 866.16	805.79 790.32 822.58	755.93 741.17 771.43	699.17 685.51 713.49
Coil 3 P	7.984 4.989 10.989	26.519 23.522 29.522	44.561 41.558 47.558	62.537 59.532 65.532	80.485 77.482 83.482	98.428 95.434 101.434	116.364 113.369 119.369	134.252 131.255 137.255
Coil 4 M	1478.3 1449.4 1508.6	1464.2 1435.5 1494.1	1435.5 1407.5 1465.0	1392.5 1365.5 1421.2	1336.1 1310.5 1364.0	1266.9 1242.6 1293.3	1186.3 1163.5 1211.0	1095.9 1074.9 1118.7
Coil 4 P	8.067 5.073 11.073	26.747 23.747 29.747	44.940 41.941 47.941	63.083 60.083 66.083	81.194 78.195 84.195	99.293 96.308 102.308	117.354 114.397 120.397	135.328 132.325 138.325
Coil 5 M	2976.8 2918.6 3037.8	2949.1 2891.4 3009.4	2891.5 2835.3 2951.1	2805.4 2751.4 2863.7	2693.1 2641.3 2749.2	2553.4 2505.7 2607.9	2394.7 2347.7 2443.5	2212.6 2170.4 2259.0
Coil 5 P	8.140 5.144 11.144	26.907 23.905 29.905	45.213 42.207 48.207	63.449 60.449 66.449	81.670 78.673 84.673	99.863 96.870 102.870	118.061 115.032 121.032	136.091 133.090 139.090



COMPANY
WELL
FIELD
PROVINCE

VULCAN MINERALS INC.
VULCAN INVESTCAN RED BROOK #2
BAY ST.GEORGE BASIN
NEWFOUNDLAND AND LABRADOR

FILE NO:

API NO:

LOCATION:

ELEVATIONS:

KB 63.4 M
DE

UID:

N/A

LICENSE:

Baker Atlas





BH LOC. LSD:

LAT 48.2679591667 LONG -58.7501141667

DF
GL 57.1 M

ADW 2009-116-03

DATE 25-NOV-2009