

Company: **WHITING OIL & GAS CORPORATION**

Well: **HORSETAIL 19N-1924M-R**

Field: **WILDCAT**

County: **WELD** State: **COLORADO**

[illegible][illegible]

[illegible]

DISCLAIMER

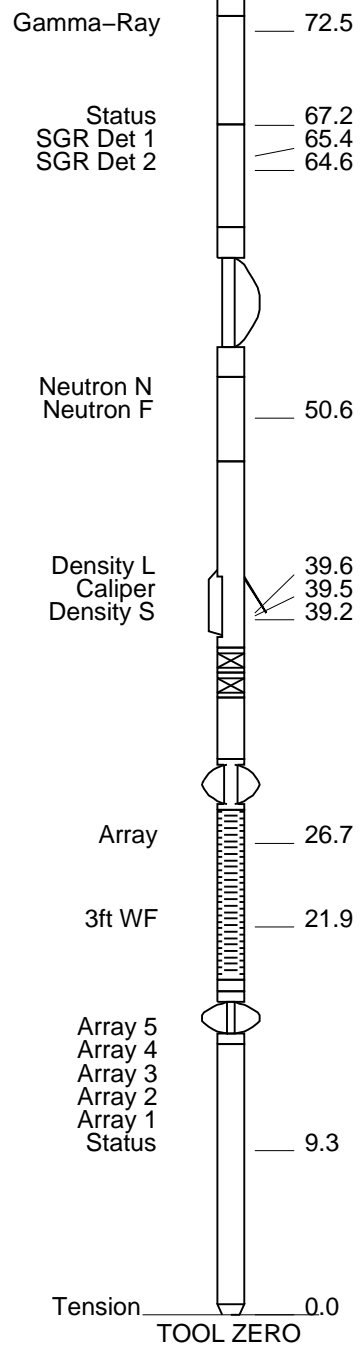
THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1 OS1: SONIC OS2: DENSITY OS3: NEUTRON OS4: INDUCTION OS5:			OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:		
REMARKS: RUN NUMBER 1			REMARKS: RUN NUMBER 2		
LEVEL THREE VERTICAL MEMORY					
BIT DEPTH: 8232' LOGGED TO: 50'					
ALL SCALES AND PRESENTATIONS PER CLIENT REQUEST					
TOOLSTRING RAN WITH SONIC CENTRALIZER,					
TWO KNUCKLES, SWIVEL, LARGE DECENTRALIZER					
IHV REPRESENTS INTEGRATED HOLE VOLUME, ft3					
ICV REPRESENTS INTEGRATED CEMENT VOLUME,					
CALCULATED FOR 7" CSG, ft3					
DEPTH REFERENCE: PIPE TALLY					
RIG: PIONEER 54					
CREW: J. TOEDTEMEIER, P. BROOKENS, R. BUCKENDORF,					
M. BUCKENDORF, J. ENGDAHL, R. MASSINGILL					
RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:			PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT	DESCRIPTION
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RUN 1		RUN 2	
SURFACE EQUIPMENT			
WITM (ThruBit)			
DOWNHOLE EQUIPMENT			
TBT-A THEAD CCL BDOT-B 26 THOT T10_1 TBUJ1 TBAT1			

TBAT2
TMG-A 8
TBSG-A 13
TILE-B
TBN-A 5
NNLS-EWA
TBD-A 24
GGLS-FZ
KAH-TB_2
KAH-TB_1
TBS-A 29
TCME-A
TBI-A 14



MAXIMUM STRING DIAMETER 2.13 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

Schlumberger

MAIN PASS

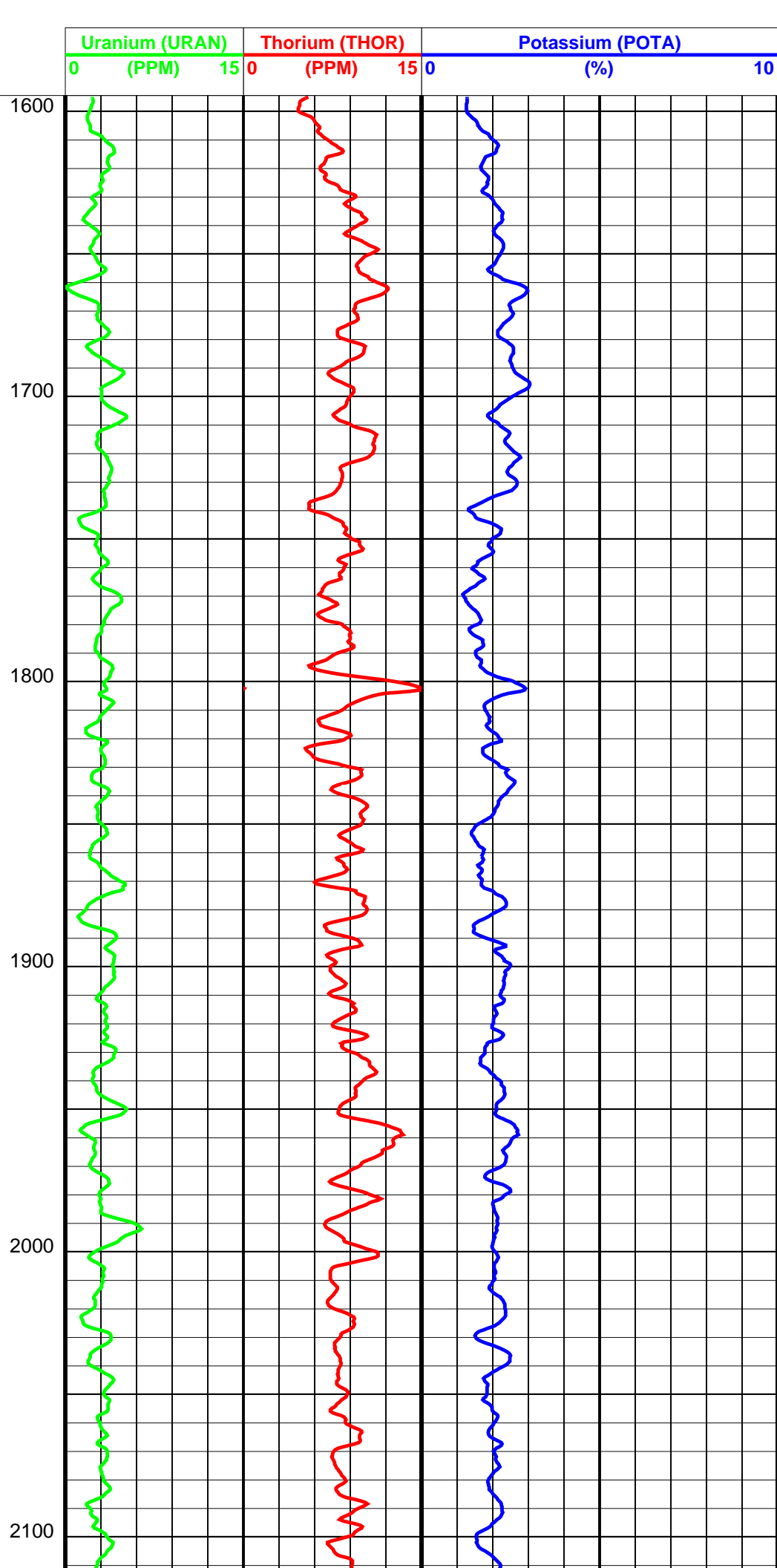
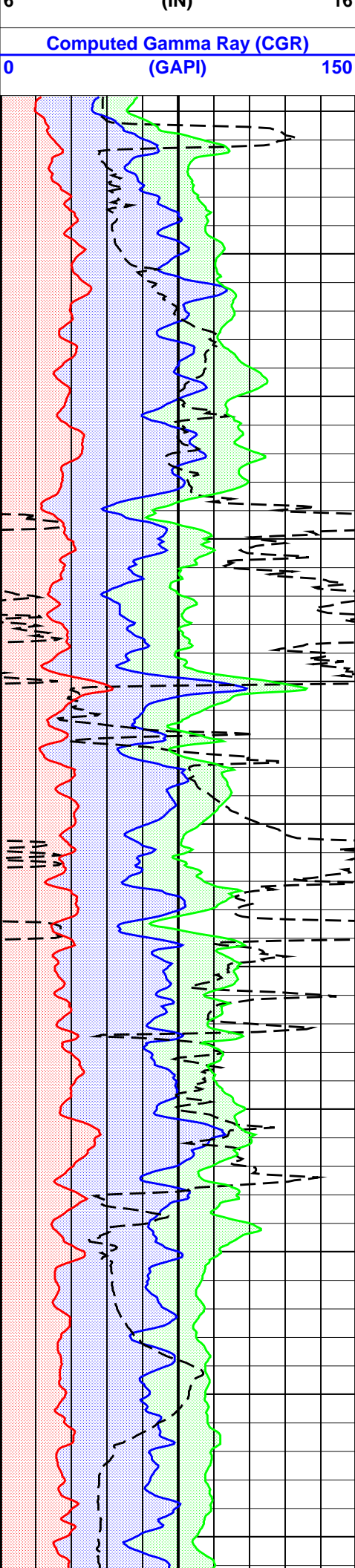
MAXIS Field Log

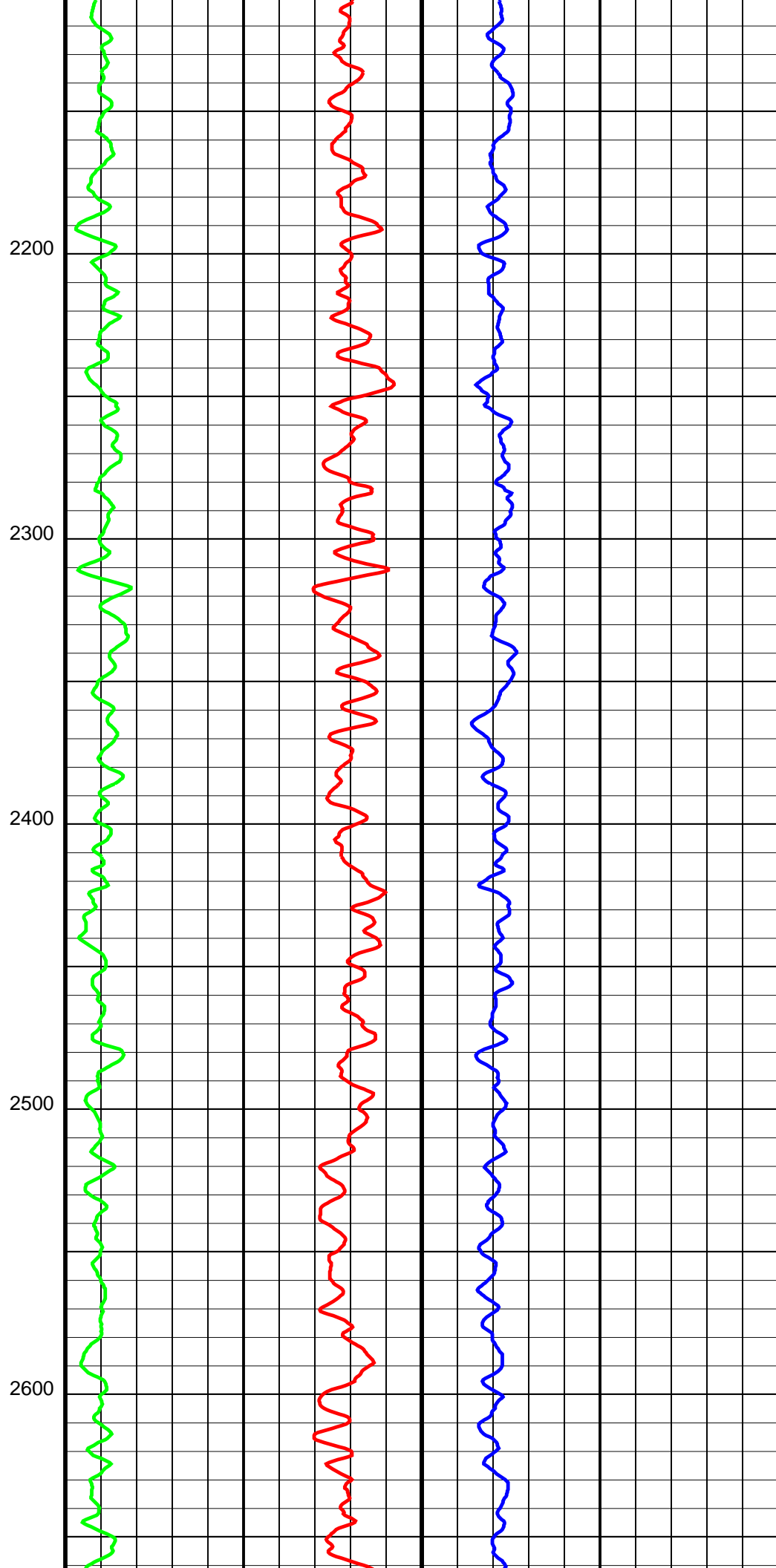
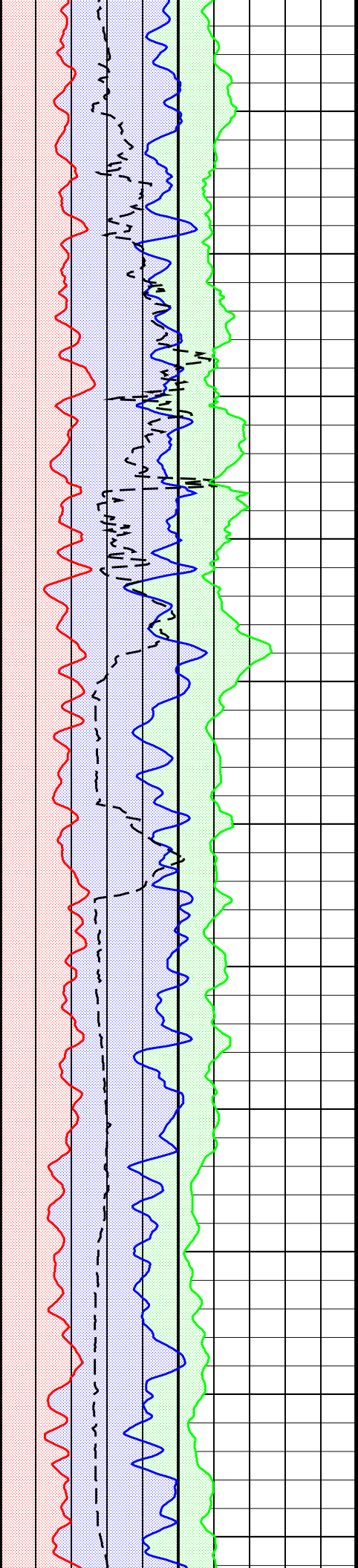
Company: WHITING OIL & GAS CORPORATION Well: HORSETAIL 19N-1924M-R

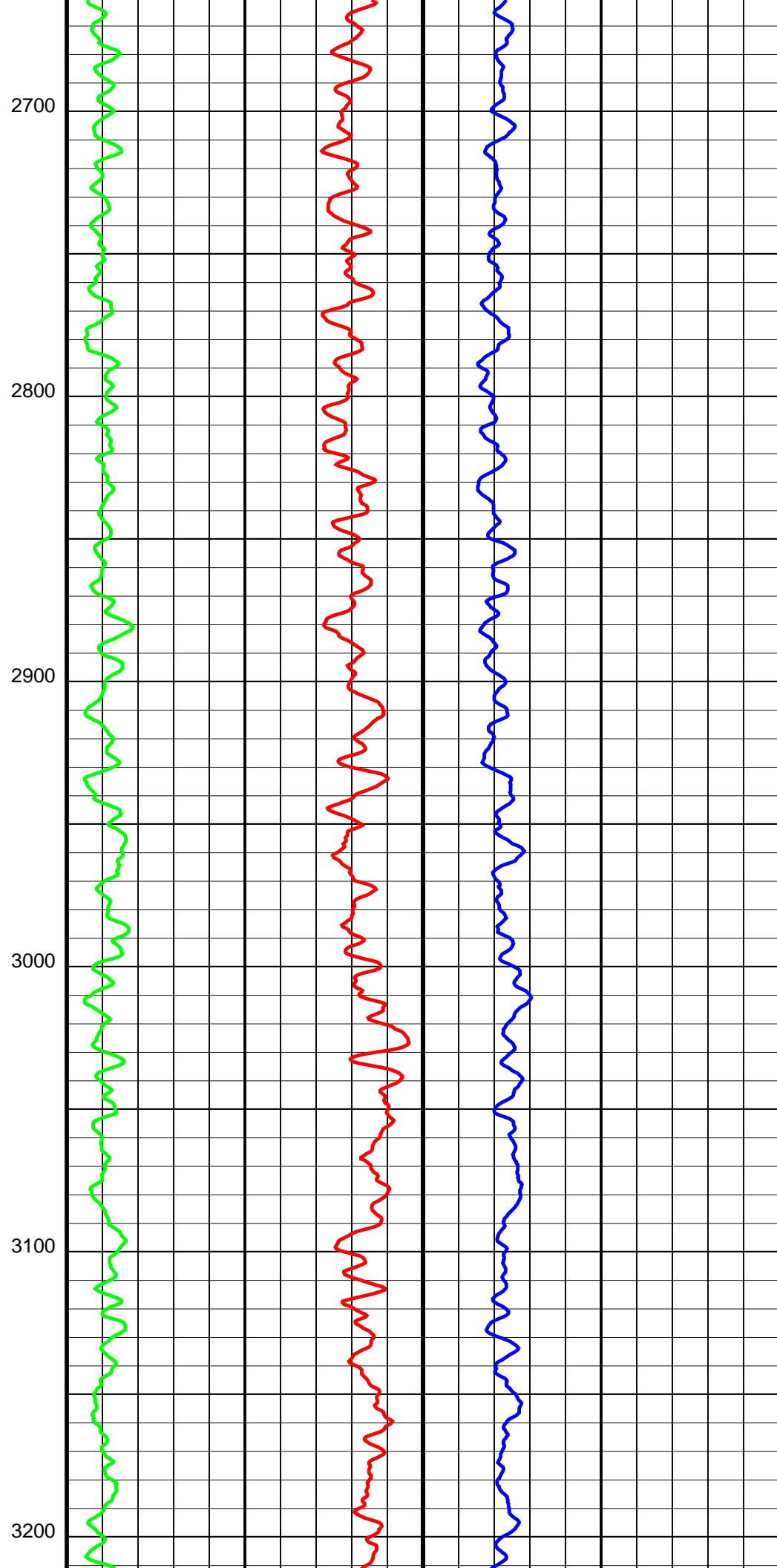
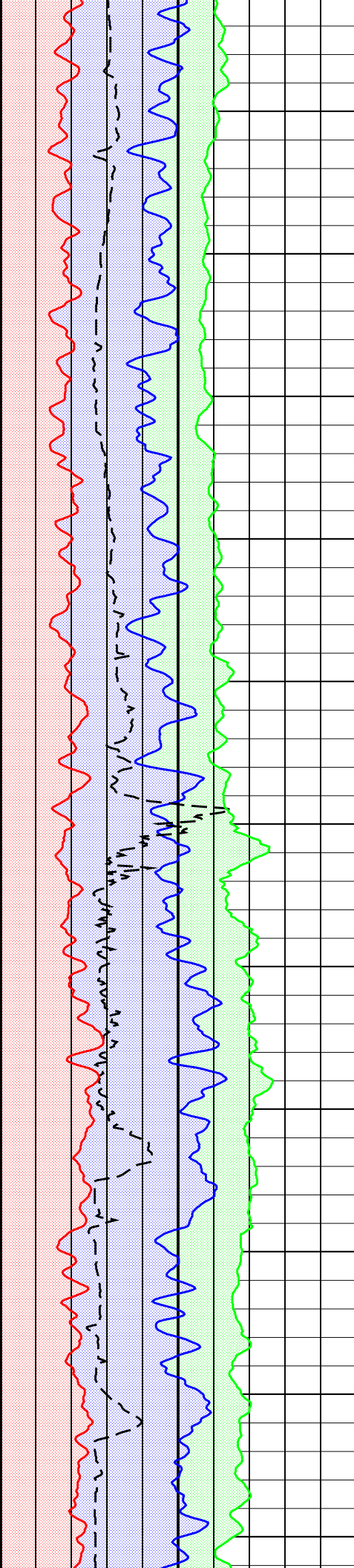
Input DLIS Files						
DEFAULT	ThruBit_025PUP	FN:20	PRODUCER	13-Dec-2014 22:18	8312.7 FT	48.7 FT

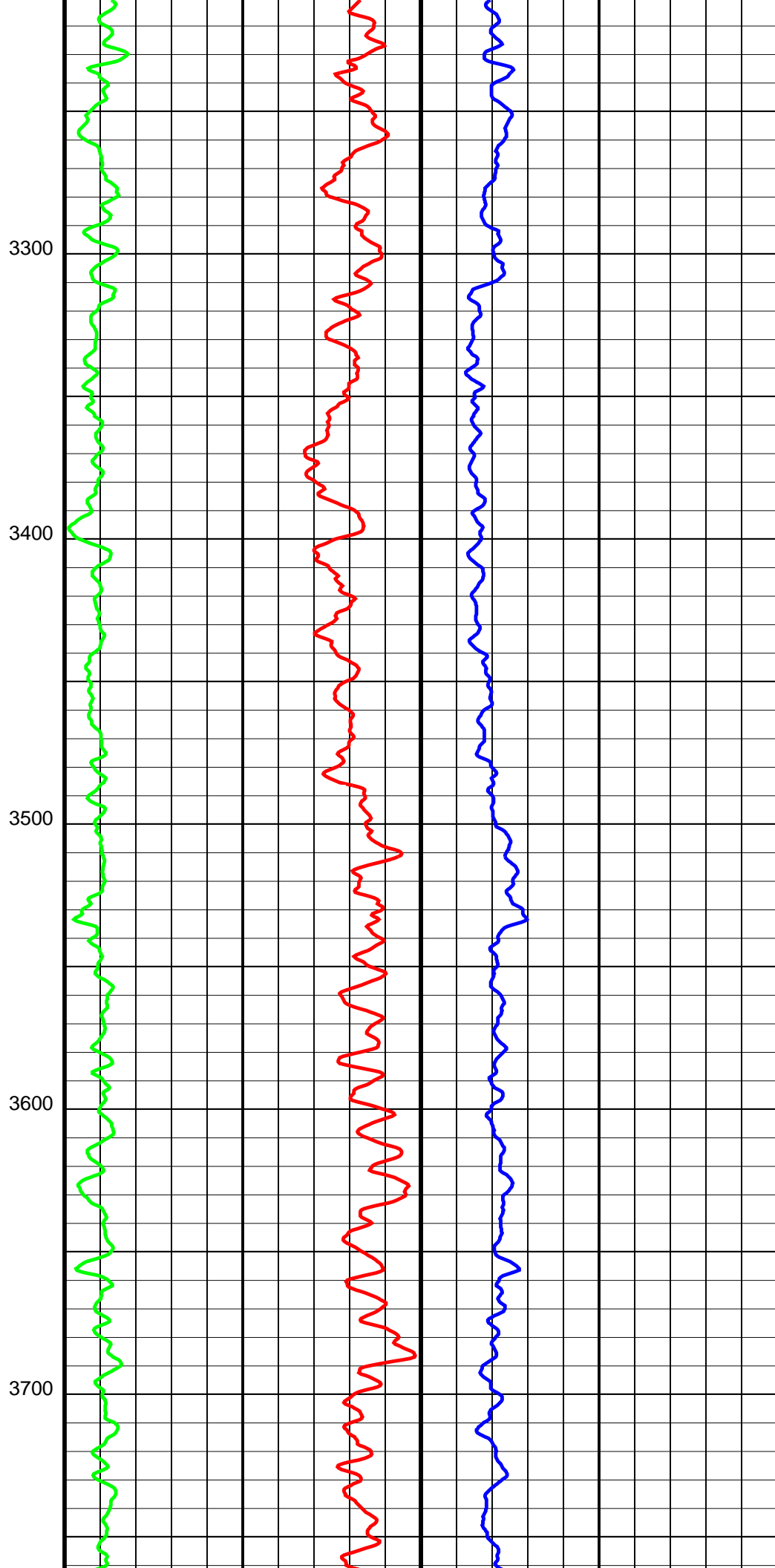
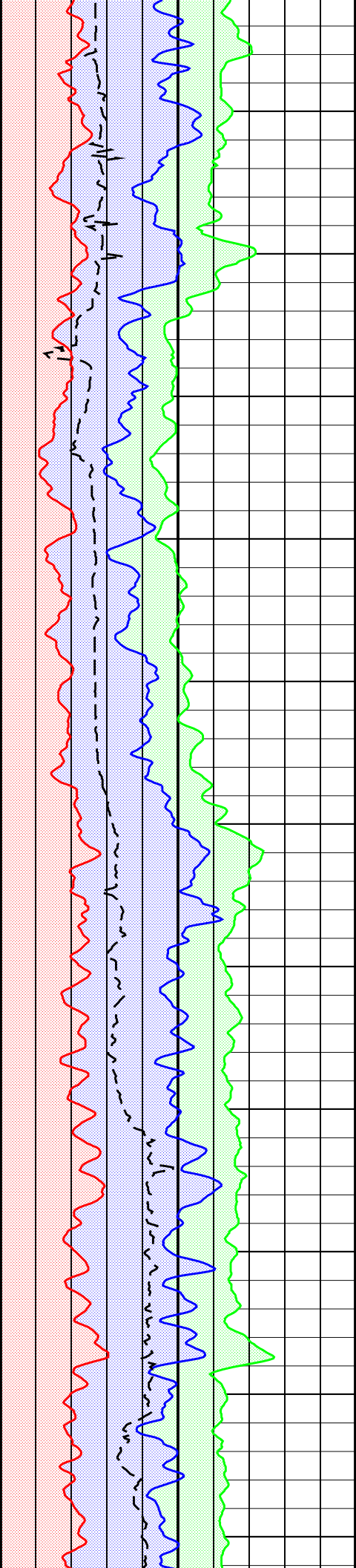
OP System Version: 19C2-270	
TBT	SRPC-5307-ThruBit

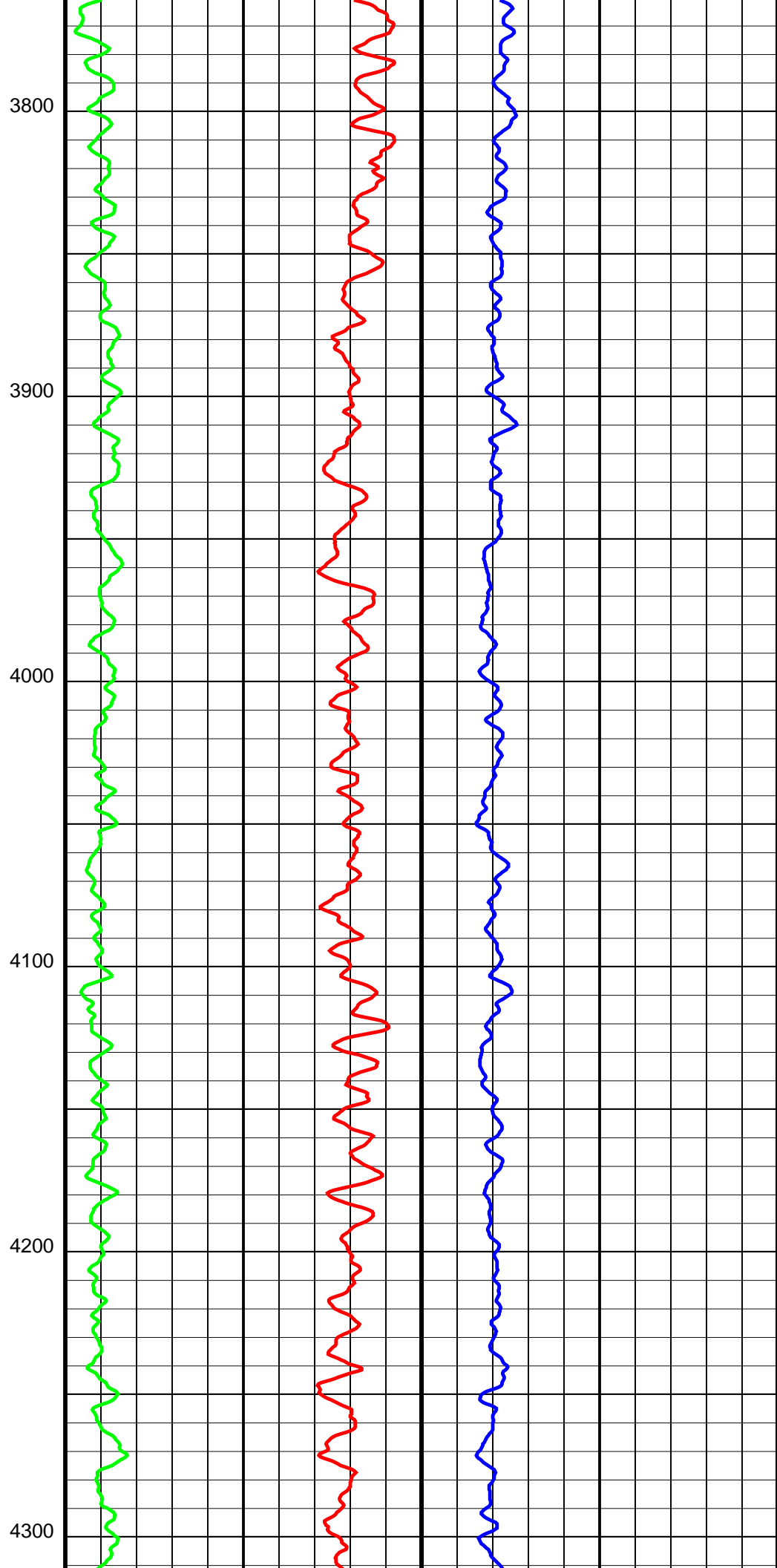
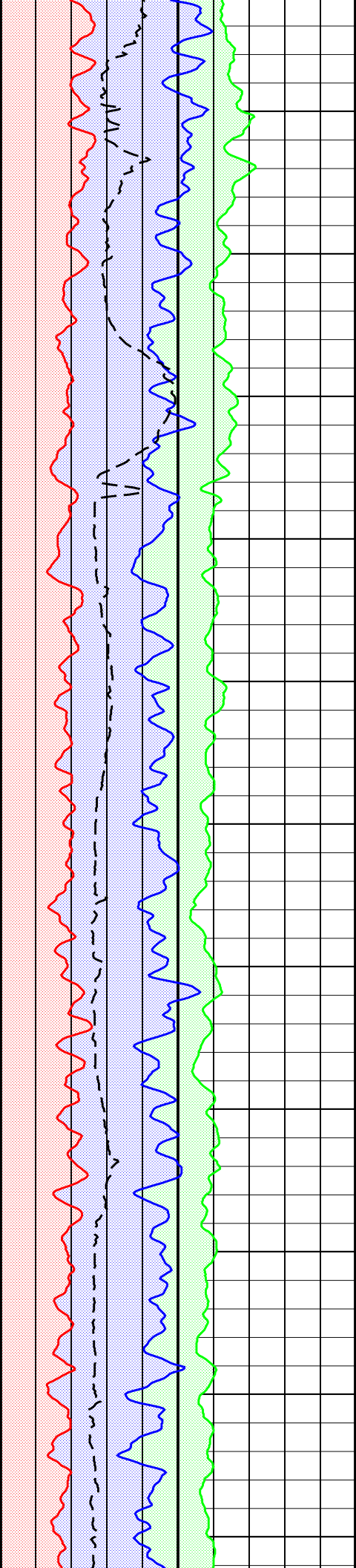
UraniumContribution Between CGR and SGR
ThoriumContribution Between LHT1 and TGR
PotassiumContribution Between TGR and CGR
Thorium Gamma Ray (TGR) 0 (GAPI) 150
Spectroscopy Gamma Ray (SGR) 0 (GAPI) 150
Caliper (CALI) 6 (IN) 16

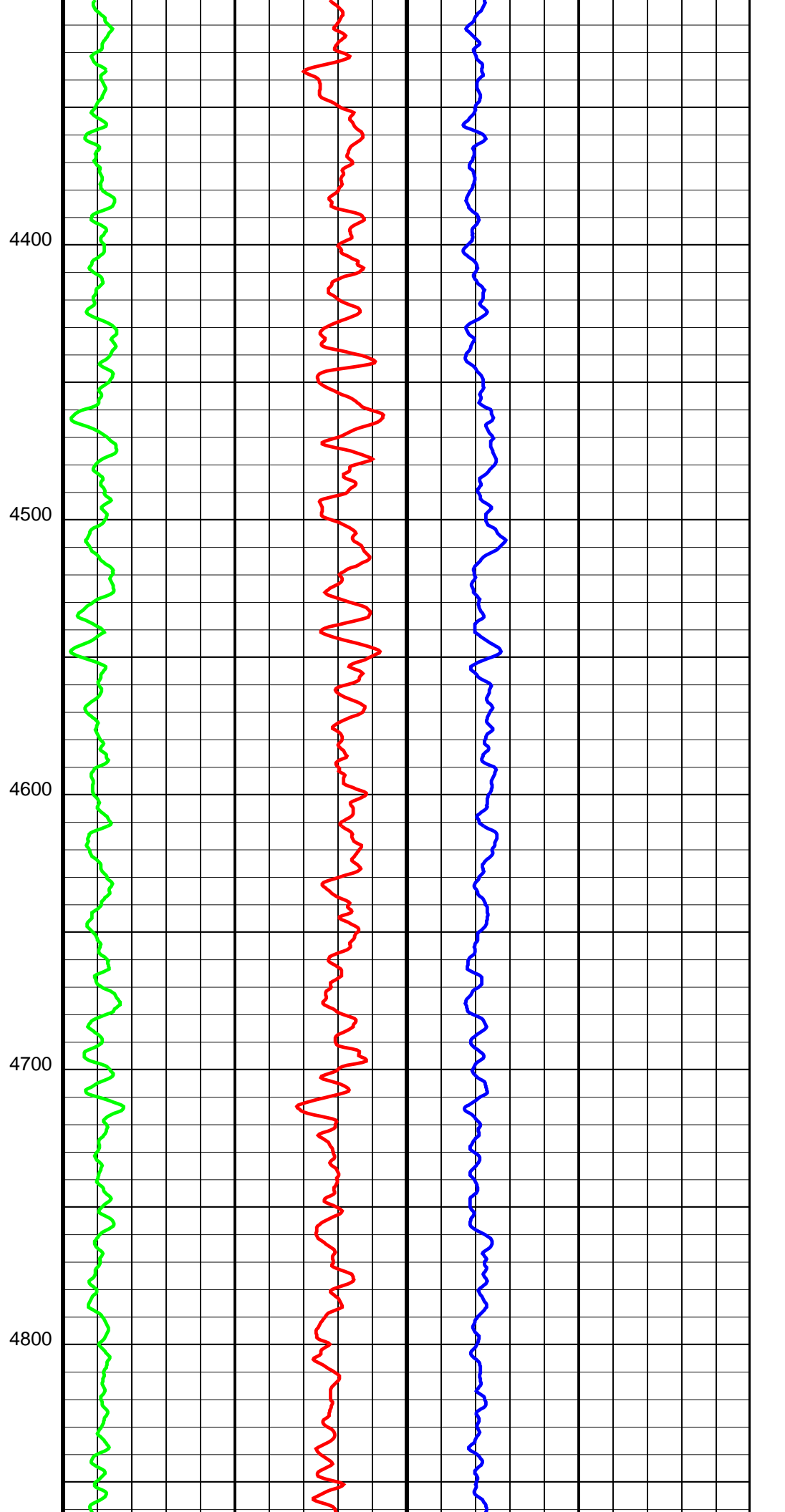
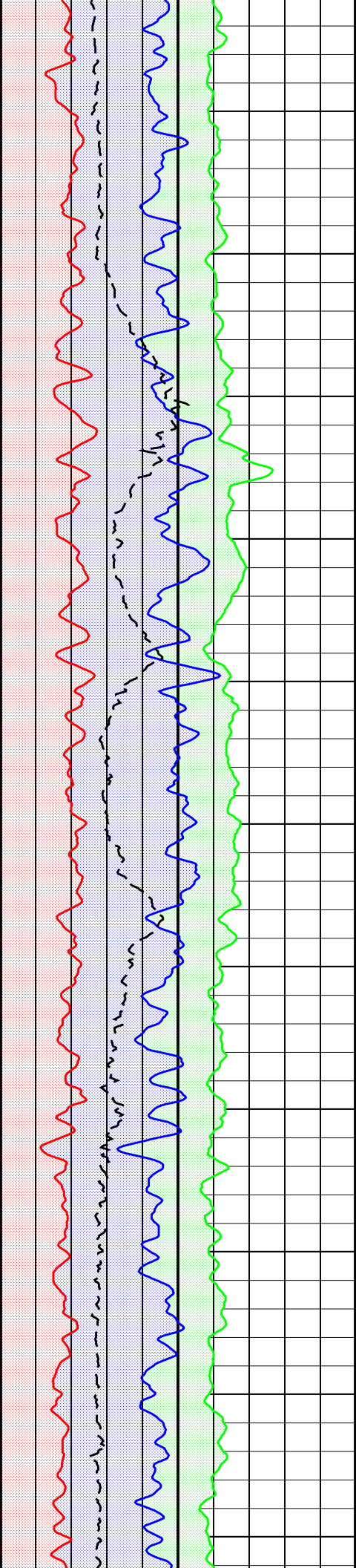


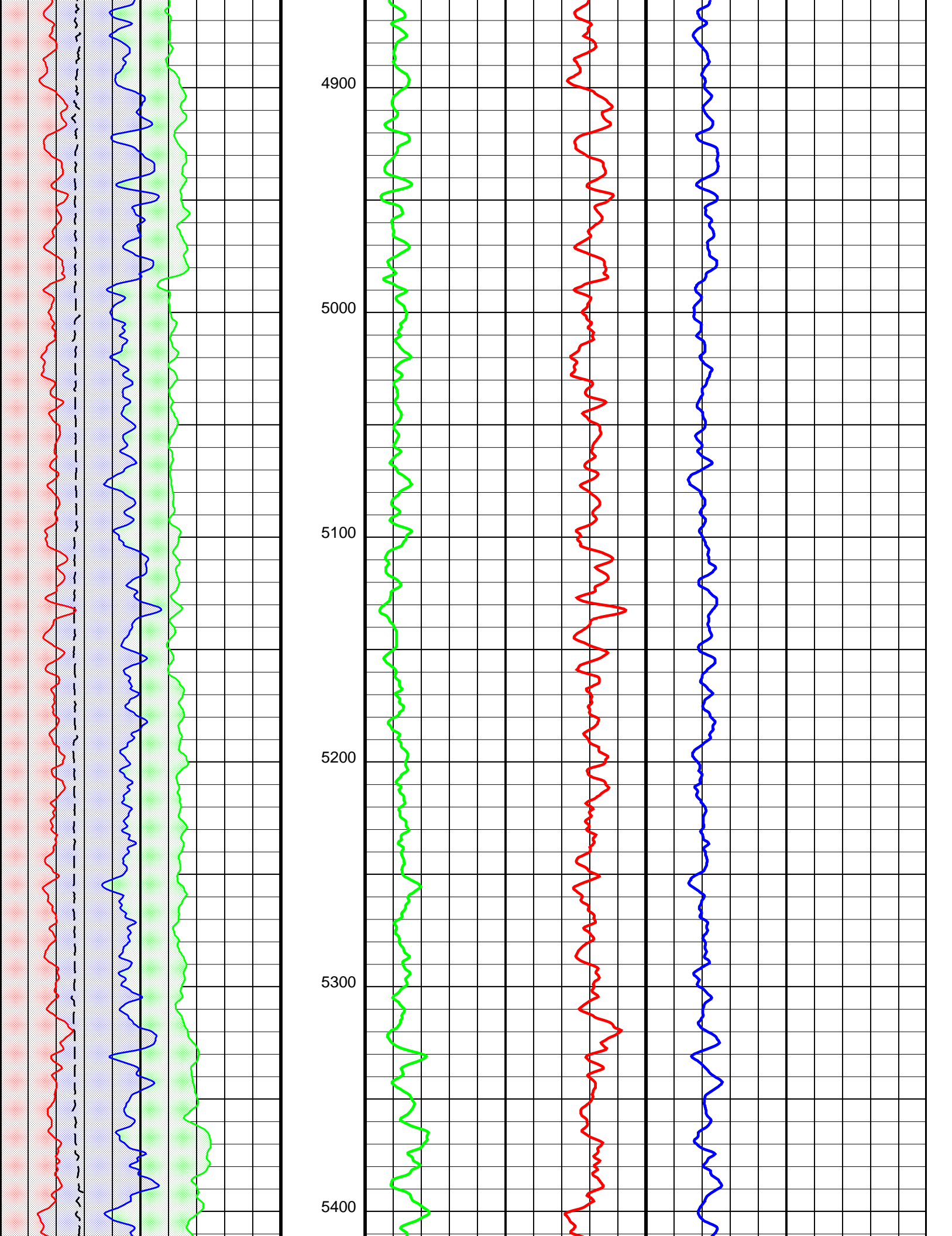


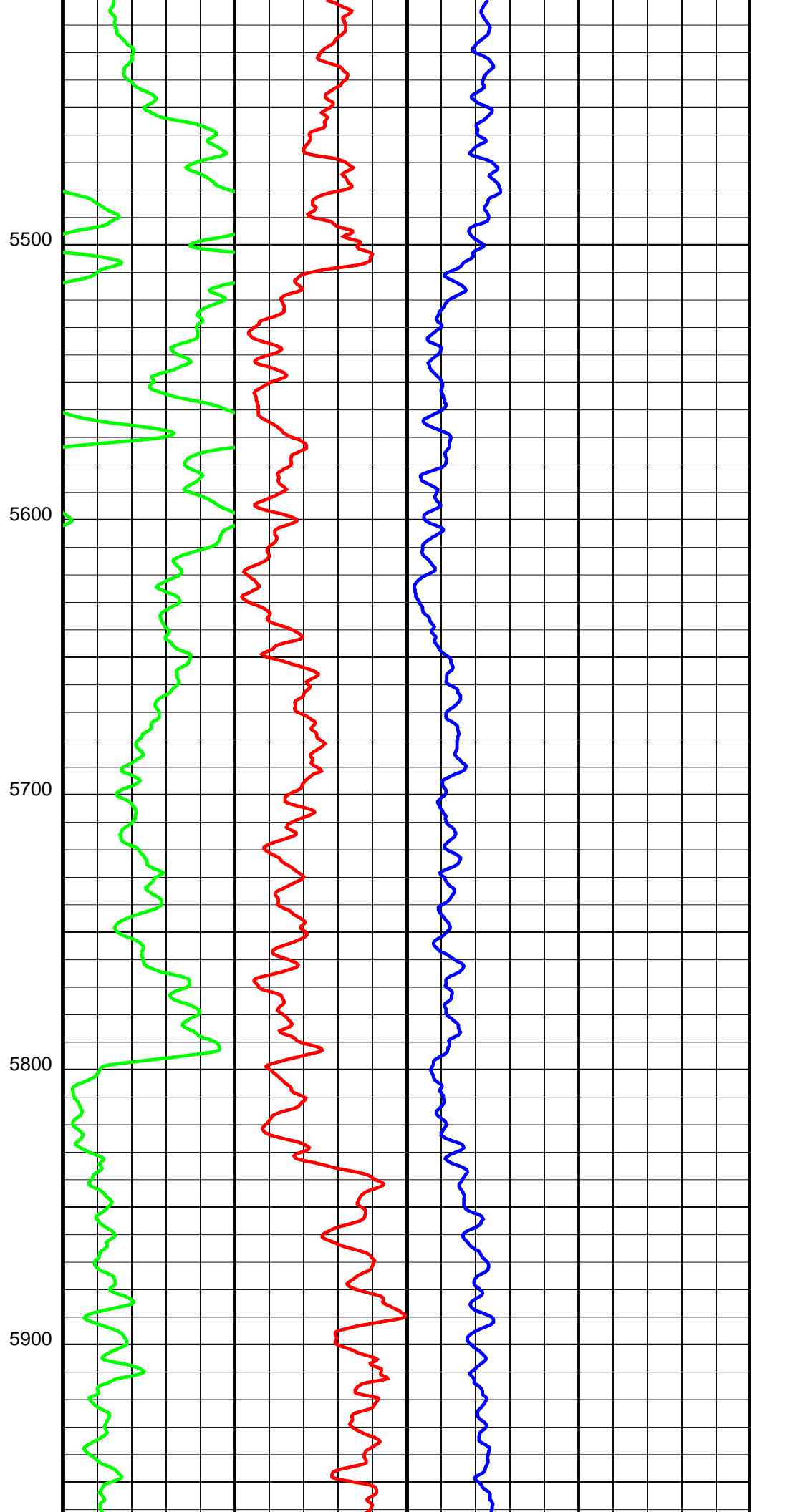
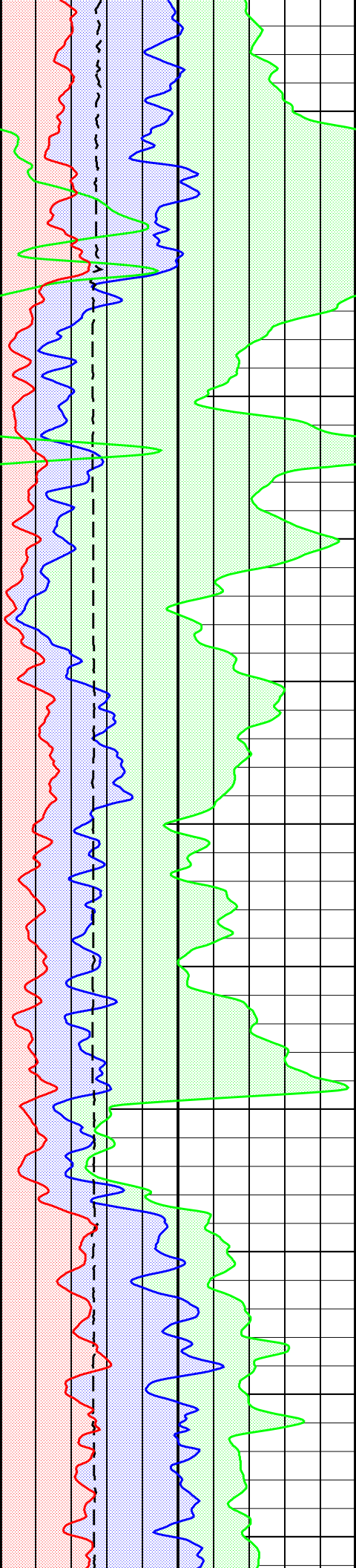


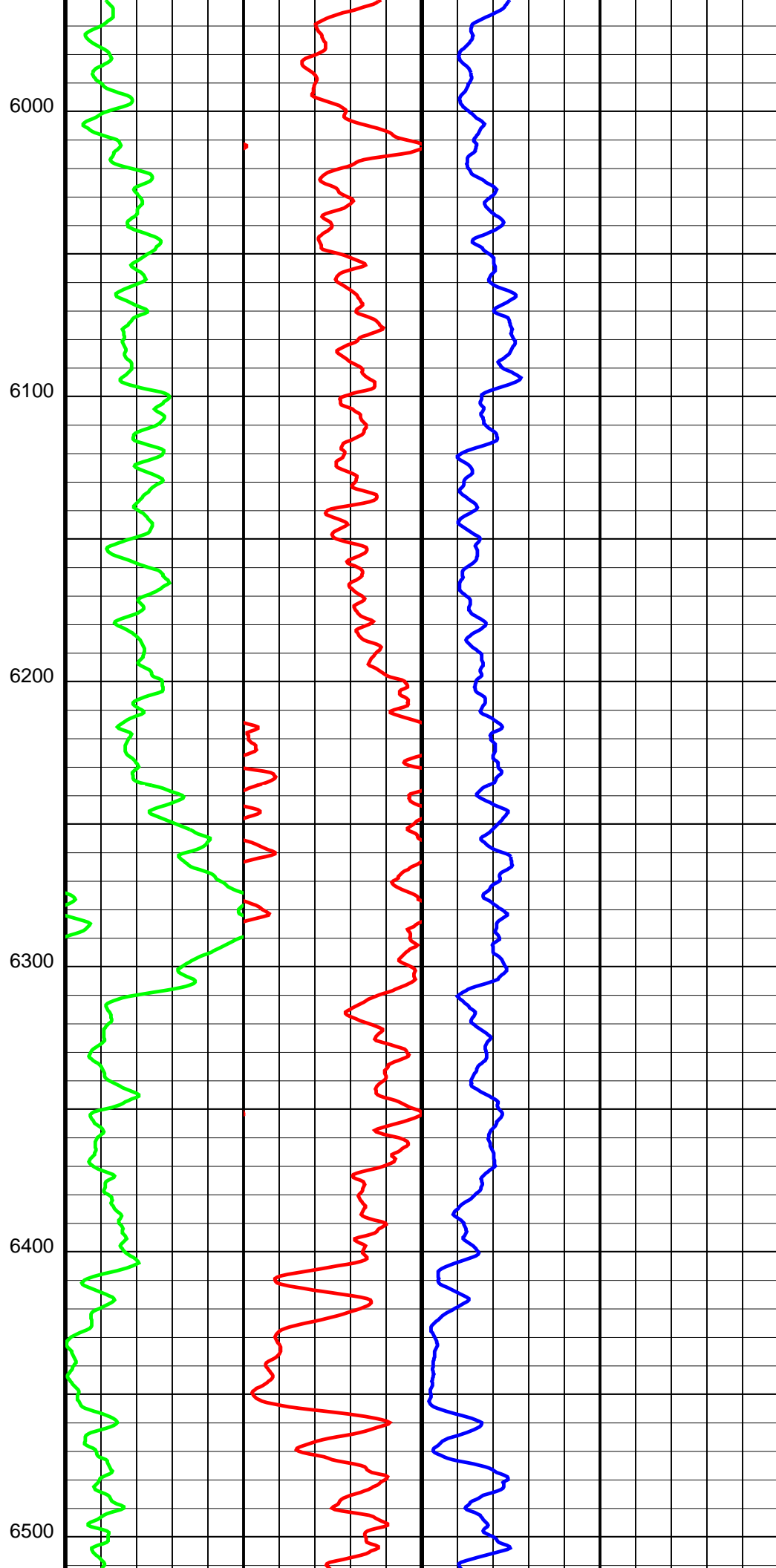
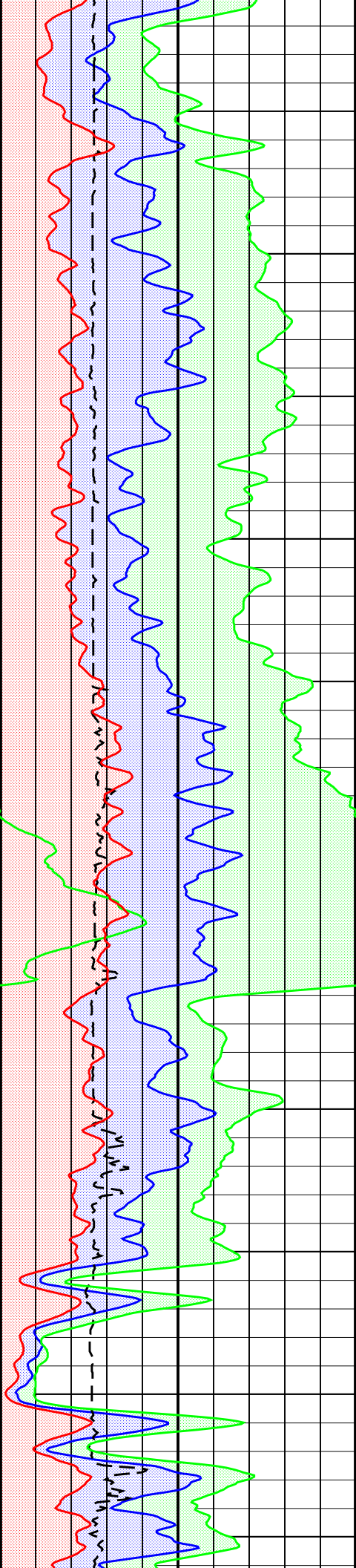


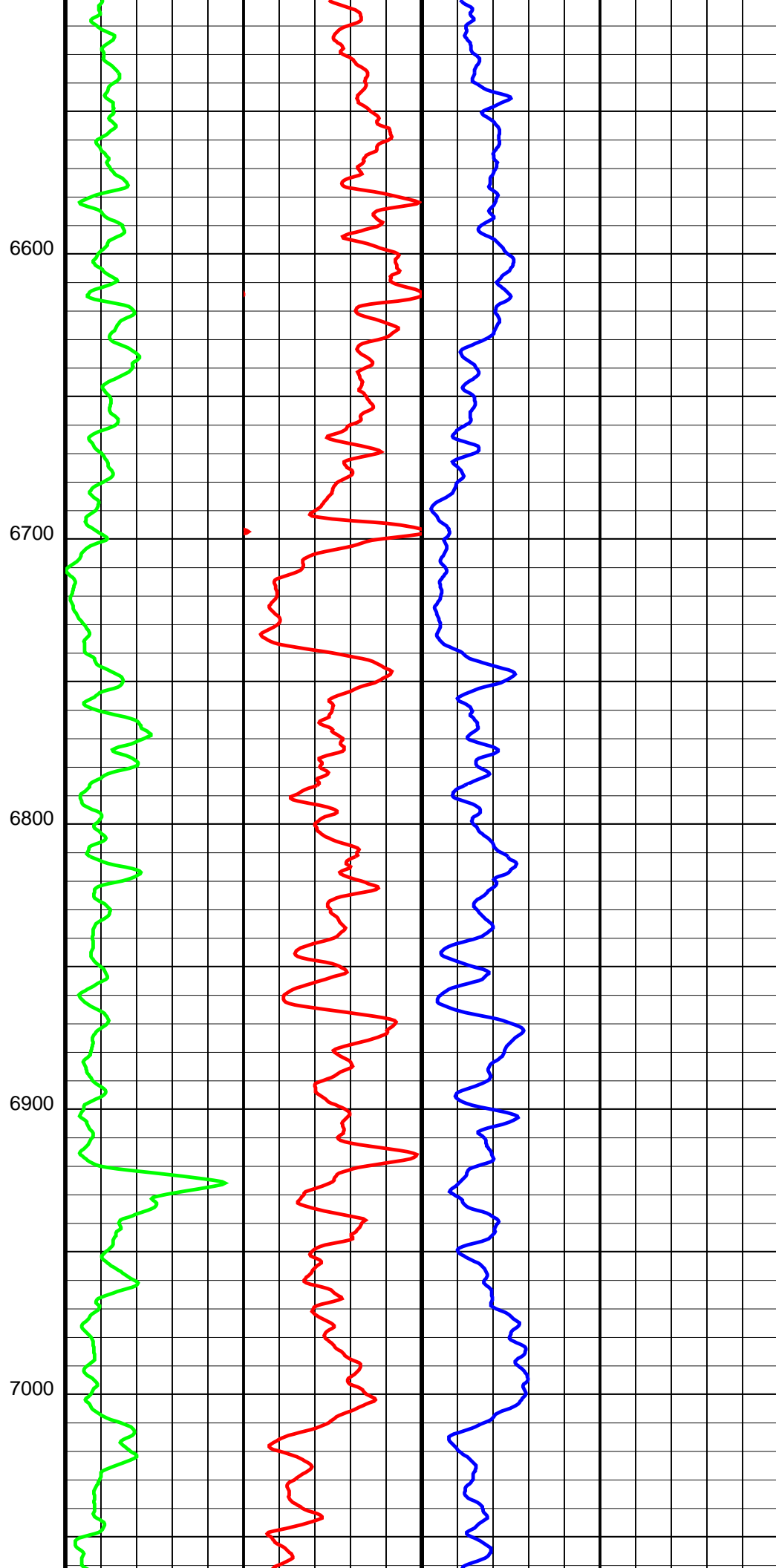
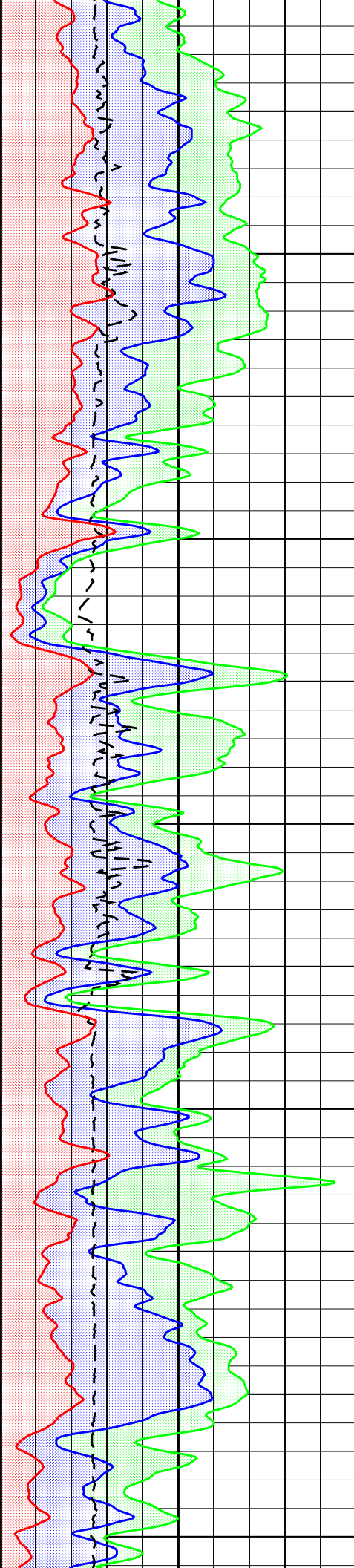


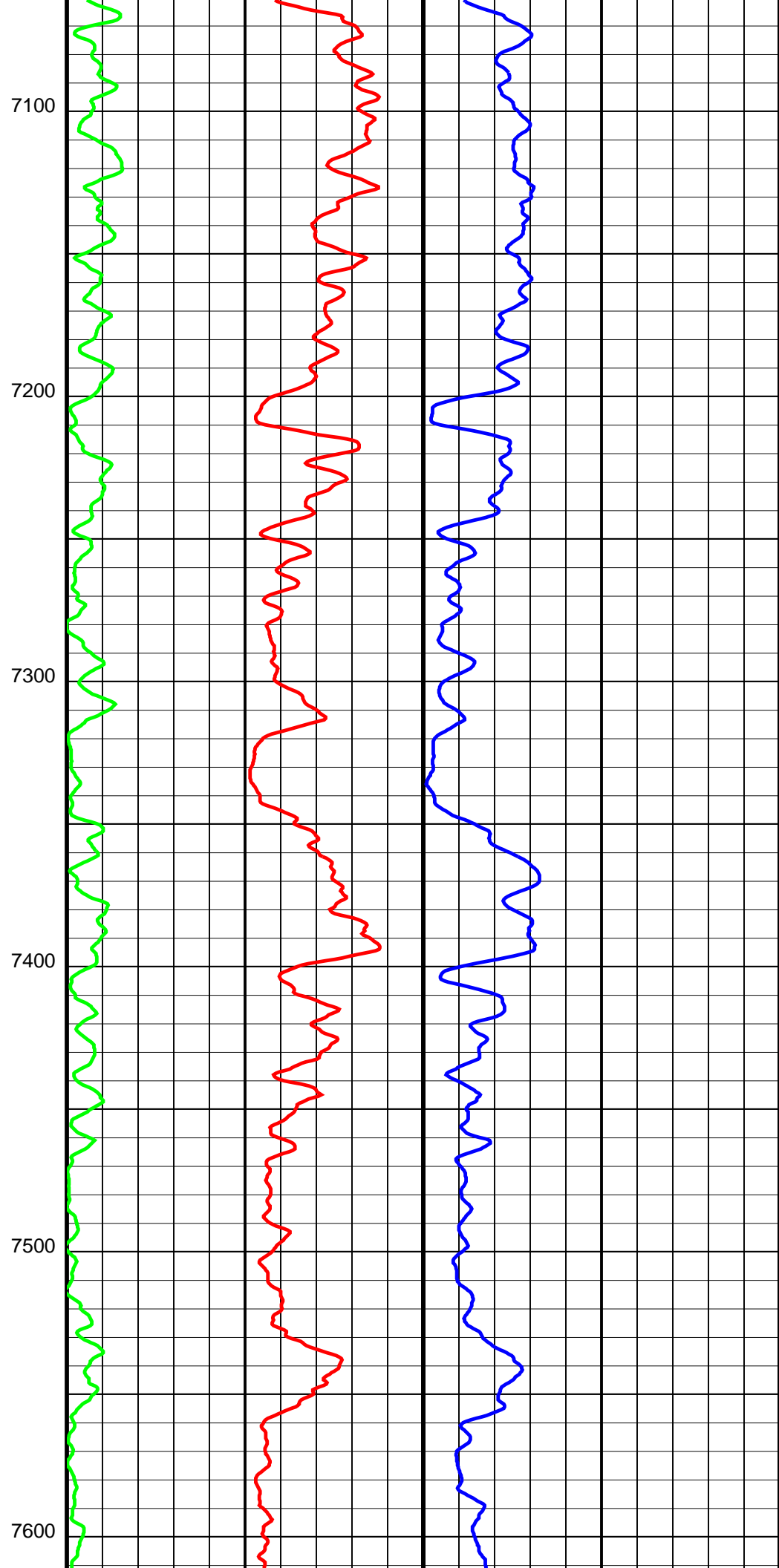
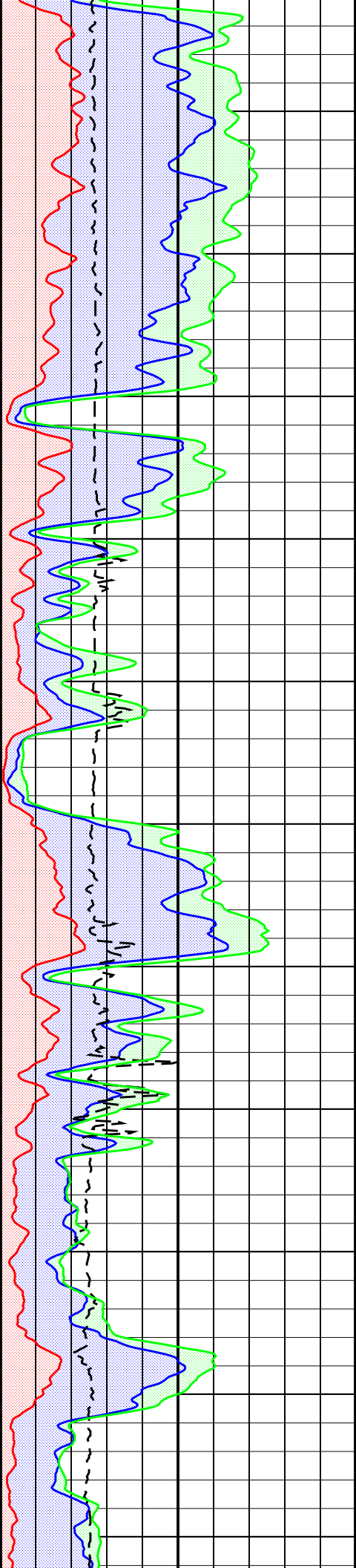


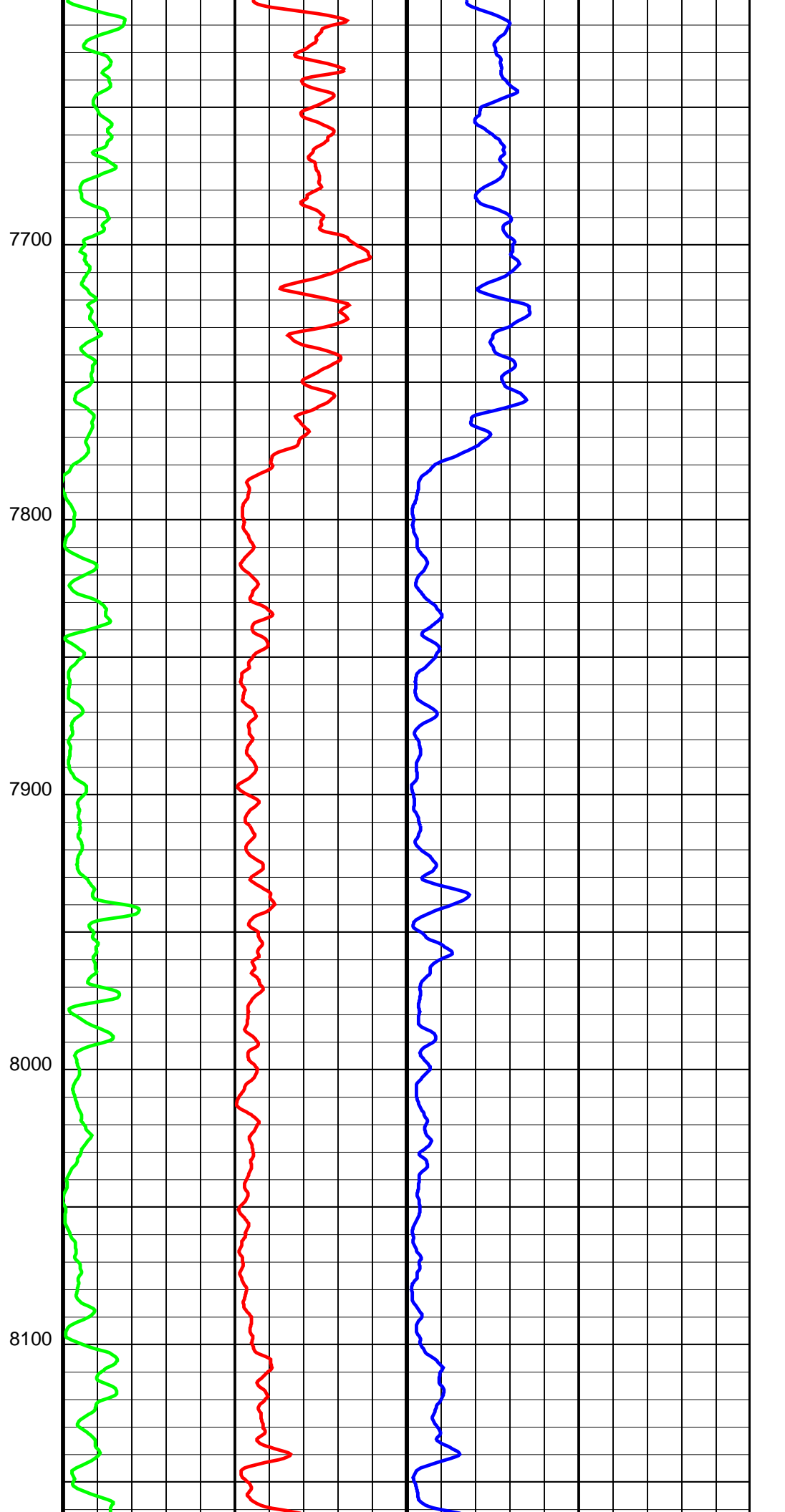
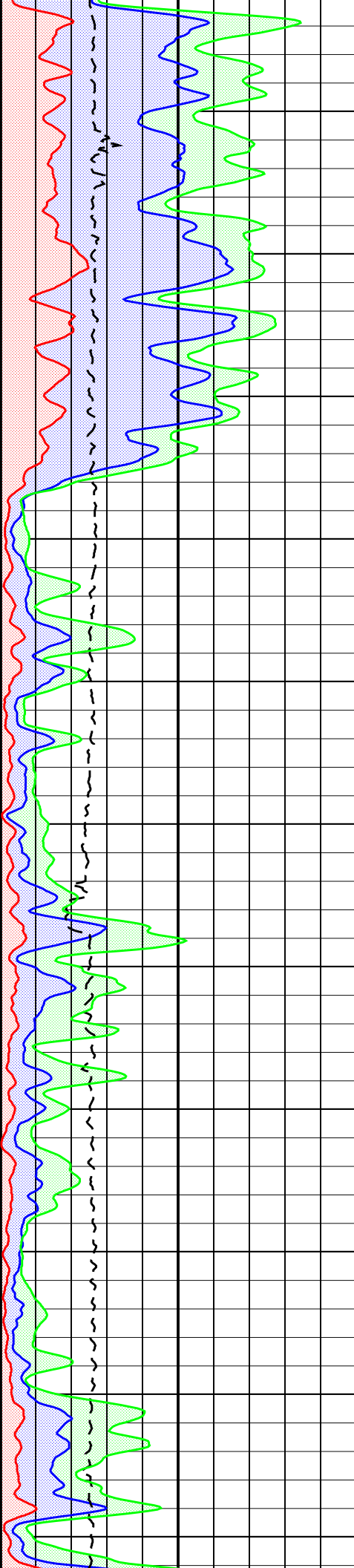


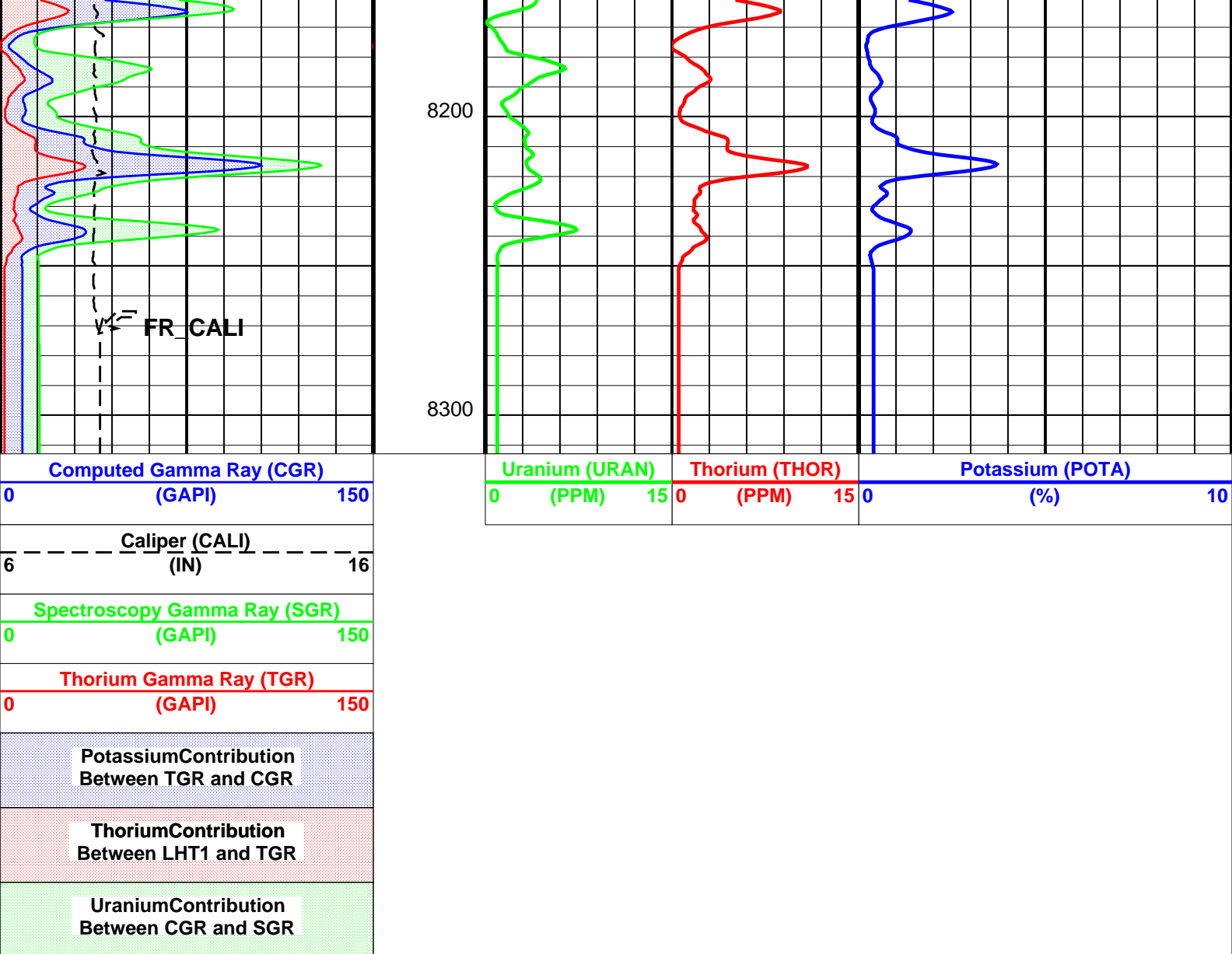












Parameters

DLIS Name	Description	Value
TBT-A: ThruBit String		
BHS	Borehole Status	OPEN
CALTEMP	SGR Calibration Temperature	77.000 degF
CSID	Casing Size I.D.	8.924 in
SGBF	Spectral GR Bins Filtered	1
SGDFA	Spectral GR Depth Frames Averaged	11
SGDS	TBSG Detector Selection	BOTH
SGISG	TBSG Initial Spectral Gain	6.550
SGR1_CAL_TH	SGR1 Thorium Peak Calibration Bin Number	400.0
SGR2_CAL_TH	SGR2 Thorium Peak Calibration Bin Number	400.0
SGRIG	Re-use initial gain computation from last pass?	YES
SGR_TEMP_SRC	Spectra Temperature Correction Source	SGR2_TEMP
SGSS	TBSG Initial Log Interval Stabilisation Skip	0.000 ft
TBSG_ALGO	TBSG Algorithm Type	MARQUARDT
TBSG_BHC	Borehole Correction Option (for TBSG)	CALIPER
TBSG_ECCE	TBSG Excentralised Flag	YES
TBSG_SFEB	TBSG Spectral Fit End Bin	450
TBSG_SFSB	TBSG Spectral Fit Start Bin	76
TBSG_SGV	TBSG Spectrum Gain Variation, bins per degC	1.500
TBSG_TYPE	TBSG Tool Type	PS
WMUD	Mud Weight	10.050 lbm/gal
HOLEV: Integrated Hole/Cement Volume		
BHS	Borehole Status	OPEN
System and Miscellaneous		
CSIZ	Current Casing Size	9.625 in

Format: TB_SGR_PRESENTATION Vertical Scale: 2" per 100' Graphics File Created: 13-Dec-2014 22:34






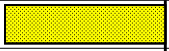












CALIBRATIONS

MAXIS Field Log

ThruBit String / Equipment Identification































Primary Equipment:			
Induction Resistivity	TBI – A	14	
Sonic	TBS – A	29	
Density	TBD – A	24	
Gamma-Ray Logging Source	GGLS – FZ		
Thermal Neutron	TBN – A	5	
Neutron Logging Source	NNLS – EWA		
Spectral GR	TBSG – A	13	
Telemetry Memory GR	TMG – A	8	

Auxiliary Equipment:




ThruBit String Master Calibration					
TBI Master Calibration Sonde Errors					
Freq 1, A1, R	Value	Nominal	Freq 1, A1, X	Value	Nominal
	-443.386	-457.000		35.8213	300.000
-556.000 (Minimum)	(Nominal)	-387.000 (Maximum)	-500.000 (Minimum)	(Nominal)	1100.00 (Maximum)
Freq 1, A2, R	Value	Nominal	Freq 1, A2, X	Value	Nominal
	-142.556	-141.000		3.48780	320.000
-182.000 (Minimum)	(Nominal)	-120.000 (Maximum)	-75.0000 (Minimum)	(Nominal)	700.000 (Maximum)
Freq 1, A3, R	Value	Nominal	Freq 1, A3, X	Value	Nominal
	-28.4814	-28.0000		50.6850	50.0000
-38.0000 (Minimum)	(Nominal)	-18.0000 (Maximum)	-375.000 (Minimum)	(Nominal)	475.000 (Maximum)
Freq 1, A4, R	Value	Nominal	Freq 1, A4, X	Value	Nominal
	-15.1835	-16.0000		282.529	300.000
-24.0000 (Minimum)	(Nominal)	-8.00000 (Maximum)	25.0000 (Minimum)	(Nominal)	575.000 (Maximum)
Freq 1, A5, R	Value	Nominal	Freq 1, A5, X	Value	Nominal
	-13.0608	-14.0000		135.630	150.000
-21.0000 (Minimum)	(Nominal)	-7.00000 (Maximum)	25.0000 (Minimum)	(Nominal)	300.000 (Maximum)
Freq 2, A1, R	Value	Nominal	Freq 2, A1, X	Value	Nominal
	-228.677	-237.000		-11.6484	150.000
-313.000 (Minimum)	(Nominal)	-186.000 (Maximum)	-375.000 (Minimum)	(Nominal)	675.000 (Maximum)
Freq 2, A2, R	Value	Nominal	Freq 2, A2, X	Value	Nominal
	-92.3298	-92.0000		-27.6569	160.000
-126.000 (Minimum)	(Nominal)	-76.0000 (Maximum)	-100.000 (Minimum)	(Nominal)	425.000 (Maximum)
Freq 2, A3, R	Value	Nominal	Freq 2, A3, X	Value	Nominal
					













		-20.7663	-21.0000			-16.7829	-20.0000
-28.0000 (Minimum)	(Nominal)	-13.0000 (Maximum)		-325.000 (Minimum)	(Nominal)	250.000 (Maximum)	
Freq 2, A4, R		Value	Nominal	Freq 2, A4, X		Value	Nominal
		-18.4470	-20.0000			99.2009	100.000
-28.0000 (Minimum)	(Nominal)	-10.0000 (Maximum)		-75.0000 (Minimum)	(Nominal)	275.000 (Maximum)	
Freq 2, A5, R		Value	Nominal	Freq 2, A5, X		Value	Nominal
		-18.3613	-20.0000			-6.02465	-25.0000
-27.0000 (Minimum)	(Nominal)	-10.0000 (Maximum)		-125.000 (Minimum)	(Nominal)	100.000 (Maximum)	
Freq 3, A1, R		Value	Nominal	Freq 3, A1, X		Value	Nominal
		-143.488	-149.000			-84.3063	25.0000
-213.000 (Minimum)	(Nominal)	-108.000 (Maximum)		-375.000 (Minimum)	(Nominal)	425.000 (Maximum)	
Freq 3, A2, R		Value	Nominal	Freq 3, A2, X		Value	Nominal
		-69.8780	-70.0000			-63.9249	70.0000
-101.000 (Minimum)	(Nominal)	-57.0000 (Maximum)		-125.000 (Minimum)	(Nominal)	250.000 (Maximum)	
Freq 3, A3, R		Value	Nominal	Freq 3, A3, X		Value	Nominal
		-17.1798	-17.0000			-68.3308	-90.0000
-23.0000 (Minimum)	(Nominal)	-11.0000 (Maximum)		-300.000 (Minimum)	(Nominal)	125.000 (Maximum)	
Freq 3, A4, R		Value	Nominal	Freq 3, A4, X		Value	Nominal
		-20.6548	-22.0000			-20.7417	-50.0000
-31.0000 (Minimum)	(Nominal)	-11.0000 (Maximum)		-200.000 (Minimum)	(Nominal)	100.000 (Maximum)	
Freq 3, A5, R		Value	Nominal	Freq 3, A5, X		Value	Nominal
		-21.5533	-22.0000			-109.059	-110.000
-32.0000 (Minimum)	(Nominal)	-11.0000 (Maximum)		-250.000 (Minimum)	(Nominal)	0 (Maximum)	
Freq 4, A1, R		Value	Nominal	Freq 4, A1, X		Value	Nominal
		-79.0503	-80.0000			-216.096	-190.000
-128.000 (Minimum)	(Nominal)	-54.0000 (Maximum)		-450.000 (Minimum)	(Nominal)	75.0000 (Maximum)	
Freq 4, A2, R		Value	Nominal	Freq 4, A2, X		Value	Nominal
		-50.2664	-50.0000			-129.964	-75.0000
-80.0000 (Minimum)	(Nominal)	-41.0000 (Maximum)		-200.000 (Minimum)	(Nominal)	50.0000 (Maximum)	
Freq 4, A3, R		Value	Nominal	Freq 4, A3, X		Value	Nominal
		-13.7559	-14.0000			-150.816	-190.000
-19.0000 (Minimum)	(Nominal)	-8.00000 (Maximum)		-350.000 (Minimum)	(Nominal)	-25.0000 (Maximum)	
Freq 4, A4, R		Value	Nominal	Freq 4, A4, X		Value	Nominal
		-23.6177	-25.0000			-195.441	-235.000
-37.0000 (Minimum)	(Nominal)	-11.0000 (Maximum)		-400.000 (Minimum)	(Nominal)	-75.0000 (Maximum)	
Freq 4, A5, R		Value	Nominal	Freq 4, A5, X		Value	Nominal
		-27.2398	-28.0000			-281.125	-300.000
-43.0000 (Minimum)	(Nominal)	-12.0000 (Maximum)		-475.000 (Minimum)	(Nominal)	-100.000 (Maximum)	
Master: 26-Nov-2014 11:53							





















ThruBit String Master Calibration					
TBI Master Calibration COMPLEX GAINS					
Freq 1, R		Value	Nominal	Freq 1, X	
		1.003	1.000		
		1.003	1.000		
		1.007	1.000		
		0.9967	1.000		
		1.003	1.000		
0.9500 (Minimum)	(Nominal)	1.050 (Maximum)		-0.05000 (Minimum)	(Nominal)
				0.05000 (Maximum)	











Freq 2, R		Value	Nominal	Freq 2, X		Value	Nominal
		0.9968	1.000			-0.009233	0
		0.9965	1.000			-0.008014	0
		0.9937	1.000			-0.008754	0
		0.9911	1.000			-0.005932	0
		0.9978	1.000			-0.01136	0
0.9500 (Minimum)		1.0500 (Maximum)		-0.05000 (Minimum)		0.05000 (Maximum)	
(Nominal)				(Nominal)			
Freq 3, R		Value	Nominal	Freq 3, X		Value	Nominal
		1.005	1.000			-0.004493	0
		1.005	1.000			-0.003378	0
		1.002	1.000			-0.004313	0
		0.9991	1.000			-0.001445	0
		1.007	1.000			-0.007069	0
0.9500 (Minimum)		1.0500 (Maximum)		-0.05000 (Minimum)		0.05000 (Maximum)	
(Nominal)				(Nominal)			
Freq 4, R		Value	Nominal	Freq 4, X		Value	Nominal
		1.004	1.000			-0.006248	0
		1.003	1.000			-0.005342	0
		1.002	1.000			-0.008158	0
		0.9977	1.000			-0.002925	0
		1.014	1.000			-0.01246	0
0.9300 (Minimum)		1.0700 (Maximum)		-0.05000 (Minimum)		0.05000 (Maximum)	
(Nominal)				(Nominal)			

Master: 26-Nov-2014 11:53

ThruBit String Master Calibration								
TBD Caliper Master Calibration								
Caliper 12in Ring IN	Value	Nominal	Caliper 9in Ring IN	Value	Nominal	Caliper 6in Ring IN	Value	Nominal
	1870.0	1949.8		2029.5	2096.7		2189.2	2285.7
1799.8 (Minimum)	2099.8 (Maximum)		1946.7 (Minimum)	2246.7 (Maximum)		2135.7 (Minimum)	2435.7 (Maximum)	
Master: 20-Sep-2014 11:13								

ThruBit String Master Calibration						
TBD Density Master Calibration. Ti Window, ThruBit blocks						
LS1 Background CPS	Value	Nominal	SS1 Background CPS	Value	Nominal	
	140.22	143.00		153.31	143.00	
100.00 (Minimum)	186.00 (Maximum)		100.00 (Minimum)	186.00 (Maximum)		
LS2 Background CPS	Value	Nominal	SS2 Background CPS	Value	Nominal	
	36.3909	37.0000		40.1750	38.0000	
26.0000 (Minimum)	48.0000 (Maximum)		27.0000 (Minimum)	50.0000 (Maximum)		
LS3 Background CPS	Value	Nominal	SS3 Background CPS	Value	Nominal	
	22.0162	22.0000		24.5551	23.0000	
15.0000 (Minimum)	29.0000 (Maximum)		16.0000 (Minimum)	30.0000 (Maximum)		
LS4 Background CPS	Value	Nominal	SS4 Background CPS	Value	Nominal	
	30.44	30.00		33.8994	31.0000	
20.00 (Minimum)	40.00 (Maximum)		22.0000 (Minimum)	40.0000 (Maximum)		
LS1 Aluminium CPS	Value	Nominal	SS1 Aluminium CPS	Value	Nominal	
	1111.3	1210.0		7318.47	7850.00	
850.00 (Minimum)	1570.0 (Maximum)		5500.00 (Minimum)	10200.0 (Maximum)		
LS2 Aluminium CPS	Value	Nominal	SS2 Aluminium CPS	Value	Nominal	
	1019.31	1110.00		3744.85	4000.00	

780.000 (Minimum)	(Nominal)	1440.00 (Maximum)		2800.00 (Minimum)	(Nominal)	5200.00 (Maximum)	
LS3 Aluminium CPS		Value	Nominal	SS3 Aluminium CPS		Value	Nominal
		943.622	1010.00			3152.41	3350.00
710.000 (Minimum)	(Nominal)	1300.00 (Maximum)		2350.00 (Minimum)	(Nominal)	4360.00 (Maximum)	
LS4 Aluminium CPS		Value	Nominal	SS4 Aluminium CPS		Value	Nominal
		708.60	760.00			3026.2451	3230.0000
530.00 (Minimum)	(Nominal)	990.00 (Maximum)		2260.0000 (Minimum)	(Nominal)	4200.0000 (Maximum)	
LS1 Al + Sleeve CPS		Value	Nominal	SS1 Al + Sleeve CPS		Value	Nominal
		896.59	970.00			5726.00	6160.00
680.00 (Minimum)	(Nominal)	1260.0 (Maximum)		4300.00 (Minimum)	(Nominal)	8000.00 (Maximum)	
LS2 Al + Sleeve CPS		Value	Nominal	SS2 Al + Sleeve CPS		Value	Nominal
		752.479	830.000			2826.24	3050.00
580.000 (Minimum)	(Nominal)	1080.00 (Maximum)		2130.00 (Minimum)	(Nominal)	4000.00 (Maximum)	
LS3 Al + Sleeve CPS		Value	Nominal	SS3 Al + Sleeve CPS		Value	Nominal
		590.007	650.000			2026.41	2190.00
460.000 (Minimum)	(Nominal)	850.000 (Maximum)		1533.00 (Minimum)	(Nominal)	2850.00 (Maximum)	
LS4 Al + Sleeve CPS		Value	Nominal	SS4 Al + Sleeve CPS		Value	Nominal
		375.36	420.00			1606.04	1700.00
300.00 (Minimum)	(Nominal)	550.00 (Maximum)		1190.00 (Minimum)	(Nominal)	2200.00 (Maximum)	
LS1 Magnesium CPS		Value	Nominal	SS1 Magnesium CPS		Value	Nominal
		7475.90	8100.00			12081.0	12740.0
5670.00 (Minimum)	(Nominal)	10530.0 (Maximum)		8920.00 (Minimum)	(Nominal)	16560.0 (Maximum)	
LS2 Magnesium CPS		Value	Nominal	SS2 Magnesium CPS		Value	Nominal
		6957.24	7650.00			6301.64	6670.00
5360.00 (Minimum)	(Nominal)	9950.00 (Maximum)		4670.00 (Minimum)	(Nominal)	8670.00 (Maximum)	
LS3 Magnesium CPS		Value	Nominal	SS3 Magnesium CPS		Value	Nominal
		6228.36	6800.00			5162.76	5400.00
4760.00 (Minimum)	(Nominal)	8840.00 (Maximum)		3780.00 (Minimum)	(Nominal)	7020.00 (Maximum)	
LS4 Magnesium CPS		Value	Nominal	SS4 Magnesium CPS		Value	Nominal
		4440.72	4850.00			5000.98	5240.00
3400.00 (Minimum)	(Nominal)	6300.00 (Maximum)		3670.00 (Minimum)	(Nominal)	6810.00 (Maximum)	
Master: 9-Dec-2014 10:51							

ThruBit String Master Calibration							
Thermal Neutron Master Calibration							
TNF, Background CPS		Value	Nominal	TNN, Background CPS		Value	Nominal
		0.35	1.0			0.23	1.0
0 (Minimum)	(Nominal)	2.0 (Maximum)		0 (Minimum)	(Nominal)	2.0 (Maximum)	
TNF, Tank CPS		Value	Nominal	TNN, Tank CPS		Value	Nominal
		60.83	96.00			1788.0	2860.0
25.00 (Minimum)	(Nominal)	200.0 (Maximum)		750.00 (Minimum)	(Nominal)	5700.0 (Maximum)	
TNF, Tank + Al Sleeve CPS		Value	Nominal	TNN, Tank + Al Sleeve CPS		Value	Nominal
		1888.2	3040.0			19977.4	32350.0
727.00 (Minimum)	(Nominal)	6080.0 (Maximum)		8000.00 (Minimum)	(Nominal)	64700.0 (Maximum)	
Tank + Al Sleeve Ratio		Value	Nominal	Tank + Al Sleeve Porosity PU		Value	Nominal
		11.143	10.797			14.46	14.40
10.300 (Minimum)	(Nominal)	11.300 (Maximum)		13.40 (Minimum)	(Nominal)	15.40 (Maximum)	
Tank, Ratio		Value	Nominal	Tank, Temperature DEGF		Value	Nominal
		29.395	30.958			75.0	70.0
28.000 (Minimum)	(Nominal)	34.000 (Maximum)		20.0 (Minimum)	(Nominal)	120.0 (Maximum)	

(Minimum)	(Nominal)	(Maximum)	(Minimum)	(Nominal)	(Maximum)
Master: 8-Dec-2014 14:10					

ThruBit String Master Calibration							
TMG Accelerometer Calibration							
Minimum Ax, m/s2		Value	Nominal	Maximum Ax, m/s2		Value	Nominal
<div>NOT DONE</div>		N/A	−9.810	<div>NOT DONE</div>		N/A	9.810
−10.81 (Minimum)	(Nominal)	−8.810 (Maximum)		8.810 (Minimum)	(Nominal)	10.81 (Maximum)	
Minimum Ay, m/s2		Value	Nominal	Maximum Ay, m/s2		Value	Nominal
<div>NOT DONE</div>		N/A	−9.810	<div>NOT DONE</div>		N/A	9.810
−10.81 (Minimum)	(Nominal)	−8.810 (Maximum)		8.810 (Minimum)	(Nominal)	10.81 (Maximum)	
Minimum Az, m/s2		Value	Nominal	Maximum Az, m/s2		Value	Nominal
<div>NOT DONE</div>		N/A	0	<div>NOT DONE</div>		N/A	9.810
−1.000 (Minimum)	(Nominal)	1.000 (Maximum)		8.810 (Minimum)	(Nominal)	10.81 (Maximum)	
RB Offset, degrees		Value	Nominal				
<div>NOT DONE</div>		N/A	0				
−360.0 (Minimum)	(Nominal)	360.0 (Maximum)					
Master: Calibration not done							

ThruBit String Master Calibration					
TMG Gamma-Ray Calibration					
GR Background GAPI	Value	Nominal	GR Jig-Background GAPI	Value	Nominal
NOT DONE	N/A	30.00	NOT DONE	N/A	152.0
0 (Minimum)	(Nominal)	120.0 (Maximum)	121.6 (Minimum)	(Nominal)	182.4 (Maximum)
Master: Calibration not done					

Company: **WHITING OIL & GAS CORPORATION**

Schlumberger

Well: **HORSETAIL 19N-1924M-R**

Field: **WILDCAT**

County: **WELD**

State: **COLORADO**

**SPECTRAL GAMMA RAY
MEMORY LOG**