



FILE NO:	COMPANY	HUSKY OIL OPERATIONS LIMITED
API NO:	WELL	LITTLE BEAR H-64
	FIELD	SLATER RIVER
	PROVINCE	NORTHWEST TERRITORIES
Ver. 3.87	LOCATION:	OTHER SERVICES
UID:	SURF LOC:	ZOL-CH-GR-CAL
300H4500126000	LAT 64.53' 28.5"N LONG 126 11' 20.3"W	HDIL-GR-CAL, CAL
LICENSE:	BH LOC, LSD:	XUAC-GR, FLEX-DSL
482	LAT 64.53' 28.5"N LONG 126 11' 20.3"W	EI-CBIL-GR, WREX
		DIRSUR, CBL
PERMANENT DATUM	G.L.	ELEVATION
LOG MEASURED FROM	K.B.	178.0 M
DRILL MEAS. FROM	5.2 M	ABOVE P.D.
	KELLY BUSHING	
		ELEVATIONS:
		KB 183.2 M
		DF
		GL 178.0 M

DATE	06-MAR-2012			
RUN	TRIP	1	1	
SERVICE ORDER	CA212311			
DEPTH DRILLER	1341.0 M			
DEPTH LOGGER	1340.2 M			
BOTTOM LOGGED INTERVAL	1308.8 M			
TOP LOGGED INTERVAL	510.0 M			
CASING DRILLER	244.5 MM	510.0 M	0	
CASING LOGGER	510.0 M			
BIT SIZE	222.0 MM			
TYPE OF FLUID IN HOLE	INVERT			
DENSITY	1240.0 G/L	47.0 S		
PH	MA	MA		
SOURCE OF SAMPLE	NO SAMPLE			
RM AT MEAS. TEMP.	MA	0 MA	0	
RMF AT MEAS. TEMP.	MA	0 MA	0	
RMC AT MEAS. TEMP.	MA	0 MA	0	
SOURCE OF RMF	RMC	NO SAMPLE		
RM AT BHT	MA	0 MA	0	
TIME SINCE CIRCULATION	8.0 HOURS			
MAX. RECORDED TEMP.	53.2 DEGC			
EQUIP. NO.	Z008672	OH CANADA		
RECORDED BY	J. COLLIER/D. DOUCETT			
WITNESSED BY	H. PARENHOYEN			

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
311.0 MM	0.0 M	510.0 M
222.0 MM	510.0 M	1341.0 M

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
244.5 MM	53.6 KG/M	MA	0.0 M	510.0 M

REMARKS

RUN 1 TRIP 1: TIME STOPPED CIRCULATION: 06-MAR-2012 02:30 PM

RIG: NABORS 23

CREW: J. COLLIER, D. DOUCETT, D. KIRWAN, D. SCHNEIDER, N. WODERWID, P. ARENBURG

EQUIPMENT DATA				
RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.
1	1	SWIVEL	3844XD	11808288
1	1	DHFA	44300B	12111382
1	1	TIRM SUB	3881XB	11760038
1	1	COMM	3514XC	12079083
1	1	WTC ROD (C/L)	4300XD	14356874

		WTS DGR/SU	13280A	11798874	FREE
		CN	24480A	12088884	DECENTRALIZED
		ZDEN	22349A	168004	PND_DEVICE
		WTS DBL KNJ	39390A	10293200	FREE
		DRT	4401XB	Z166876	FREE
		ACOUSTIC EL	1677EA	12045829	CENTRALIZED
		XMAC RX WDR	1678MC	12002082	CENTRALIZED
		XMAC ISO	1678PB	12083102	FREE
		XMAC TX FLC	1678BA	12083106	CENTRALIZED
		XMAC TX FLC	1678FA	12111388	CENTRALIZED
		HDIL FLCNS	1515EA	12032417	STANDOFF
		HDIL MANDRL	1515MA	11997988	STANDOFF
		SMVEL	3844XD	11848158	FREE
		DHPA	4430XB	12088588	FREE
		TTRM SUB	3981XA	Z173348	FREE
		COMM	3514XB	Z186132	FREE
		WTS DGR/SU	13280A	Z179402	FREE
		CN	24480A	12088881	DECENTRALIZED
		ZDEN	22349A	Z172640	PND_DEVICE
		WTS DBL KNJ	39390A	167194	FREE
		DRT	4401XB	12039483	FREE
		ACOUSTIC EL	1677EA	11981893	CENTRALIZED
		XMAC RX WDR	1678MC	12138263	CENTRALIZED
		XMAC ISO	1678PB	11970839	FREE
		XMAC TX FLC	1678BA	12103864	CENTRALIZED
		XMAC TX FLC	1678FA	12111383	CENTRALIZED
		HDIL FLCNS	1515EA	11998850	STANDOFF
		HDIL MANDRL	1515MA	12022611	STANDOFF
		CENTRALIZER	4341XA	Z173361	CENTRALIZED

INSTRUMENT CONFIGURATION

Source File: /data/husky_CA212311/run1-fdg

CABLEHEAD

Diameter : 8.6 cm
Length : 167.6 cm
Weight : 10.8 kg
Series : CABLE300
Innomia : CBLH
Measure Points : 83.8 cm: CABLEHEAD TOP

SKIVER

Diameter : 8.6 cm
Length : 108.7 cm
Weight : 30.8 kg
Series : 3844XD

DOWNHOLE POWER ADAPTER

Diameter : 9.2 cm
Length : 180.7 cm
Weight : 38.1 kg
Series : 4430XB
Innomia : DHPA

TTRM SUB

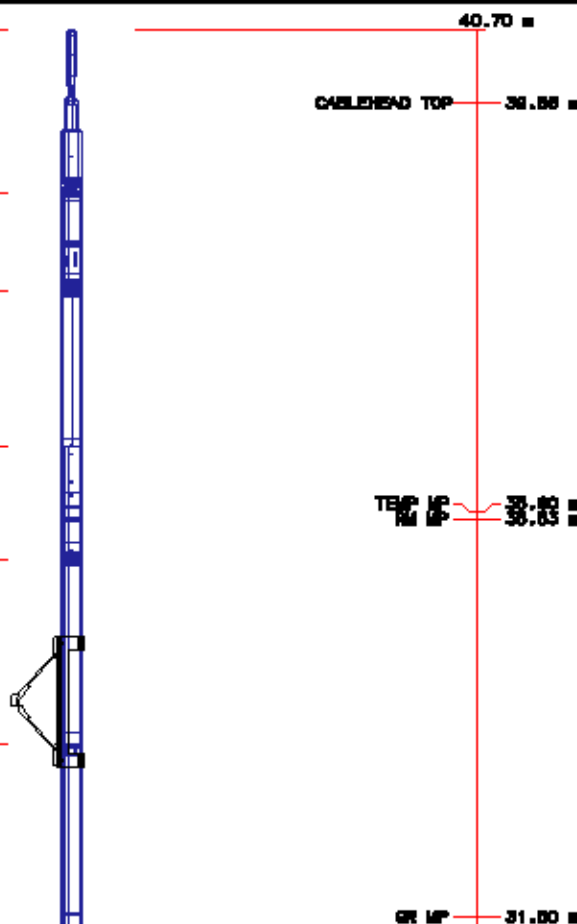
Diameter : 9.2 cm
Length : 116.8 cm
Weight : 28.2 kg
Series : 3981XA
Innomia : TTRM
Measure Points : 42.2 cm: TTRM MP

WTS COMMON REMOTE

Diameter : 9.2 cm
Length : 184.0 cm
Weight : 58.2 kg
Series : 3514XD
Innomia : WTS

DIGITAL SPECTRALOG

Diameter : 9.2 cm
Length : 222.8 cm
Weight : 58.1 kg
Series : 13280A
Innomia : DBL
Measure Points : 45.8 cm: OR MP



COMPENSATED NEUTRON

Diameter : 9.2 cm
Length : 231.4 cm
Weight : 86.2 kg
Series : 244204
Name: CN
Measure Point: 80.3 cm: LSN MP
Measure Point: 83.2 cm: OSN MP

LSN MP : 26.80 m
OSN MP : 26.35 m

Z-DONILLO

Diameter : 18.4 cm
Length : 341.8 cm
Weight : 183.8 kg
Series : 223-84A
Name: ZDL
Measure Point: 87.3 cm: DAL MP
Measure Point: 70.4 cm: LSD MP
Measure Point: 63.2 cm: OSD MP

DAL MP : 28.28 m
LSD MP : 26.04 m
OSD MP : 25.61 m

KNUCKLE JOINT (DOUBLE)

Diameter : 8.8 cm
Length : 141.8 cm
Weight : 40.8 kg
Series : 363804
Name: KJMT

DIGITAL ORIENTATION

Diameter : 8.8 cm
Length : 328.4 cm
Weight : 80.0 kg
Series : 440103
Name: ORIT
Measure Point: 0.0 cm: ORIENT MP

ORIENT MP : 20.57 m

ARRAY ACQUITLOS ELECTRONICS - 8 CHANNEL

Diameter : 8.8 cm
Length : 235.3 cm
Weight : 48.4 kg
Series : 1877EA
Name: KAMD

CROSS MULTIPOLE ARRAY ACQUITLOS

Diameter : 9.8 cm
Length : 338.4 cm
Weight : 101.8 kg
Series : 1878AD
Name: KAMT
Measure Point: 187.8 cm: R6
Measure Point: 180.4 cm: R7
Measure Point: 137.2 cm: R8
Measure Point: 181.8 cm: R9
Measure Point: 108.7 cm: R4
Measure Point: 81.4 cm: R3
Measure Point: 70.2 cm: R2
Measure Point: 51.0 cm: R1

R6 : 16.54 m
R7 : 16.35 m
R8 : 14.25 m
R9 : 16.42 m
R4 : 12.35 m
R3 : 12.35 m
R2 : 11.82 m
R1 : 11.82 m

SHEAR WAVE ACQUITLOS

Diameter : 9.8 cm
Length : 102.4 cm
Weight : 51.4 kg
Series : 1878PD
Name: KAMC

MULTI-POLE ARRAY ACQUITLO

Diameter : 9.8 cm
Length : 241.3 cm
Weight : 77.3 kg
Series : 1878BA
Name: KAMC
Measure Point: 180.8 cm: QUADRUPOLE T5
Measure Point: 180.8 cm: MONOPOLE T2
Measure Point: 142.2 cm: Y-DIPOLE T4
Measure Point: 142.2 cm: X-DIPOLE T3
Measure Point: 85.9 cm: MONOPOLE T1

MONOPOLE T2 : 12.88 m
QUADRUPOLE T5 : 12.88 m

X-DIPOLE T3 : 12.35 m
Y-DIPOLE T4 : 12.35 m

MONOPOLE T1 : 11.82 m

MULTI-POLE ARRAY ACQUITLO

Diameter : 8.8 cm
Length : 131.8 cm
Weight : 26.4 kg
Series : 1878FA
Name: MAC

HIGH DEFINITION INDUCTION TOOL

Diameter : 8.3 cm
Length : 887.0 cm
Weight : 189.8 kg
Series : 1810KA
Insonia : HDIL
Measure Point: 423.0 cm: 9P MP
Measure Point: 886.8 cm: 10TR MP

9P MP 5.58 m

10TR MP 5.81 m

4 ARM BOW SPRING CENTRALIZER

Diameter : 8.8 cm
Length : 126.5 cm
Weight : 38.7 kg
Series : 4341KA
Insonia : CENT

BALL PLUG 3 3/8

TOTAL LENGTH: 40.70 m
TOTAL WEIGHT: 1105.5 kg
MAX DIAMETER: 12.4 cm

0.00 m

MAIN LOG

ECLIPS 6.11 Aug 06, 2010
Updates: 1 Patches: 1

Wed Mar 7 01:28:04 2012

Perpl /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.51

PARAMETER AND FILTER SUMMARY REPORT

File: /data/husky_CA212511/m77evh_xc03.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 487.588 m BOTTOM DEPTH: 1340.929 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER (.h)	medium (i)		TOP	BOTTOM
	FILTER (.i)	medium (i)		"	"
SPEED	FILTER (.h)	medium (i)		"	"
	FILTER (.i)	medium (i)		"	"
TENSION	FILTER ()	medium (i)		"	"
	FILTER ()	medium (i)		"	"
GR	FILTER (.h)	medium (i)		"	"
	FILTER (.i)	medium (i)		"	"
SL-I	FILTER	medium (i)		"	"

SLI I PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
------------------	-----------	-------	-------	--------------	--

E MATRIX	OPEN/CASED HDLE	OPEN HDLE	TOP	BOTTOM
SLII AUTOGAIN	AUTO GAIN	AUTO GAIN ON	''	''
SLII ENERGY RANGE	ENERGY RANGE	NORMAL: 0.25-3.0 MeV	''	''
SPECTRUM CALIBRATION	MODE	AUTOMATIC	''	''

CURVE DESCRIPTION REPORT

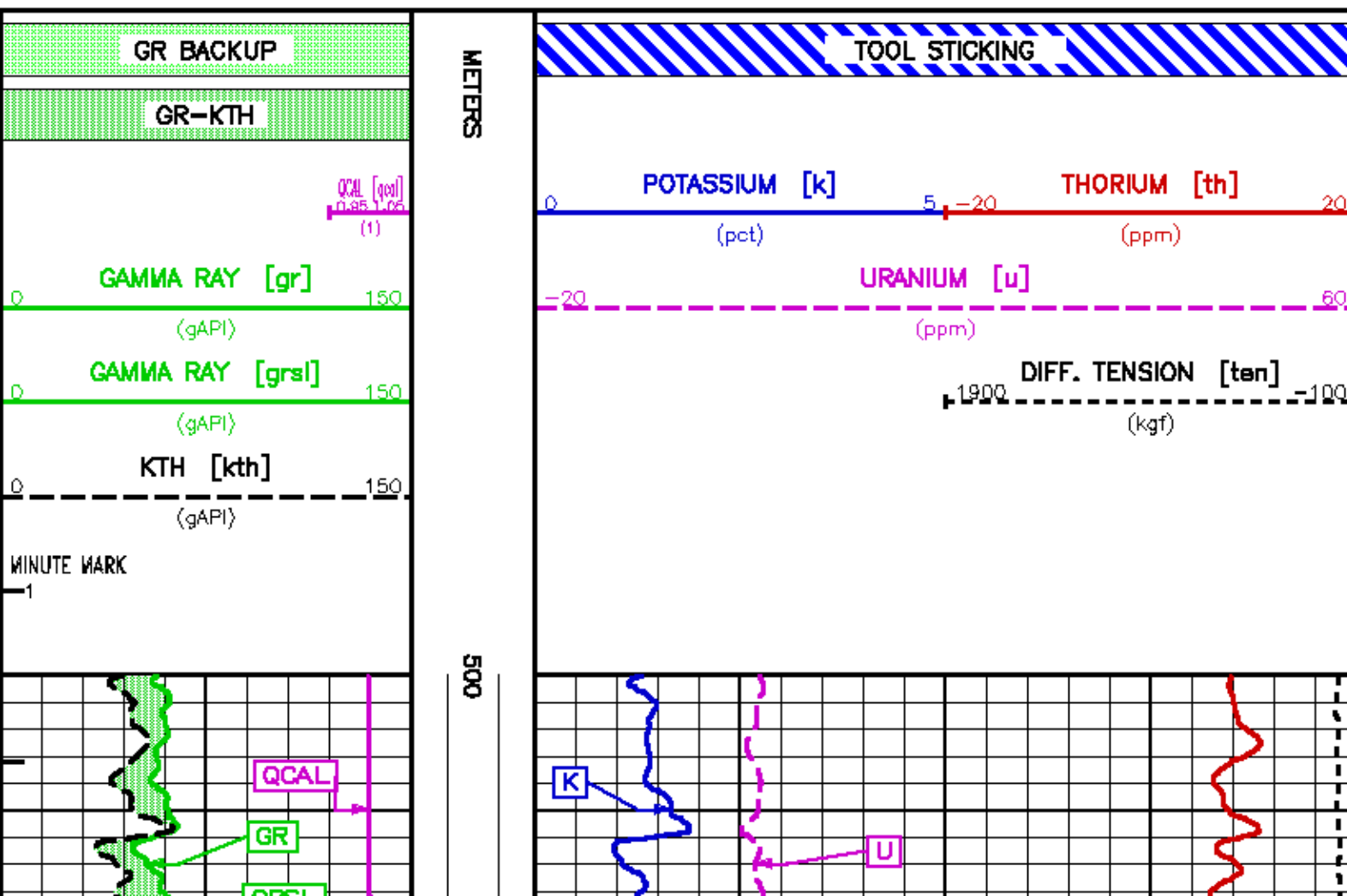
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:GR	Mar 6 22:18:03 2012	GAMMA RAY
F1:GRSL	Mar 6 22:18:03 2012	GAMMA RAY FROM 1329 SPECTRUM
F1:K	Mar 6 22:18:03 2012	POTASSIUM CONTENT
F1:KTH	Mar 6 22:18:03 2012	STRIPPED POTASSIUM-THORIUM
F1:MARK	Mar 6 22:18:03 2012	MINUTE MARK
F1:QCAL	Mar 6 22:18:03 2012	QUALITY CURVE
F1:TEN	Mar 6 22:18:03 2012	DIFFERENTIAL TENSION
F1:TH	Mar 6 22:18:03 2012	THORIUM CONCENTRATION
F1:U	Mar 6 22:18:03 2012	URANIUM CONTENT

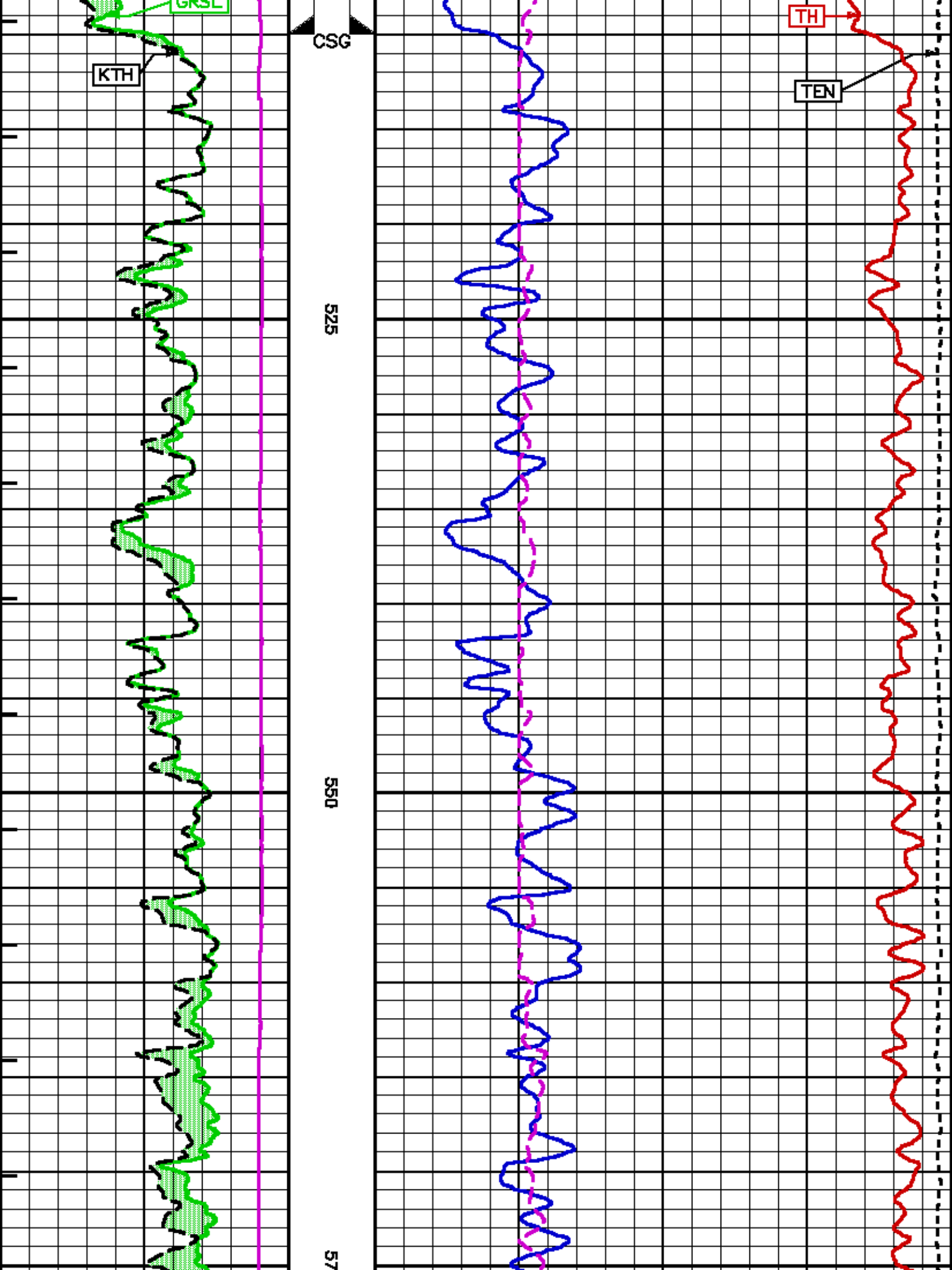
CURVE MEASURE POINT OFFSET

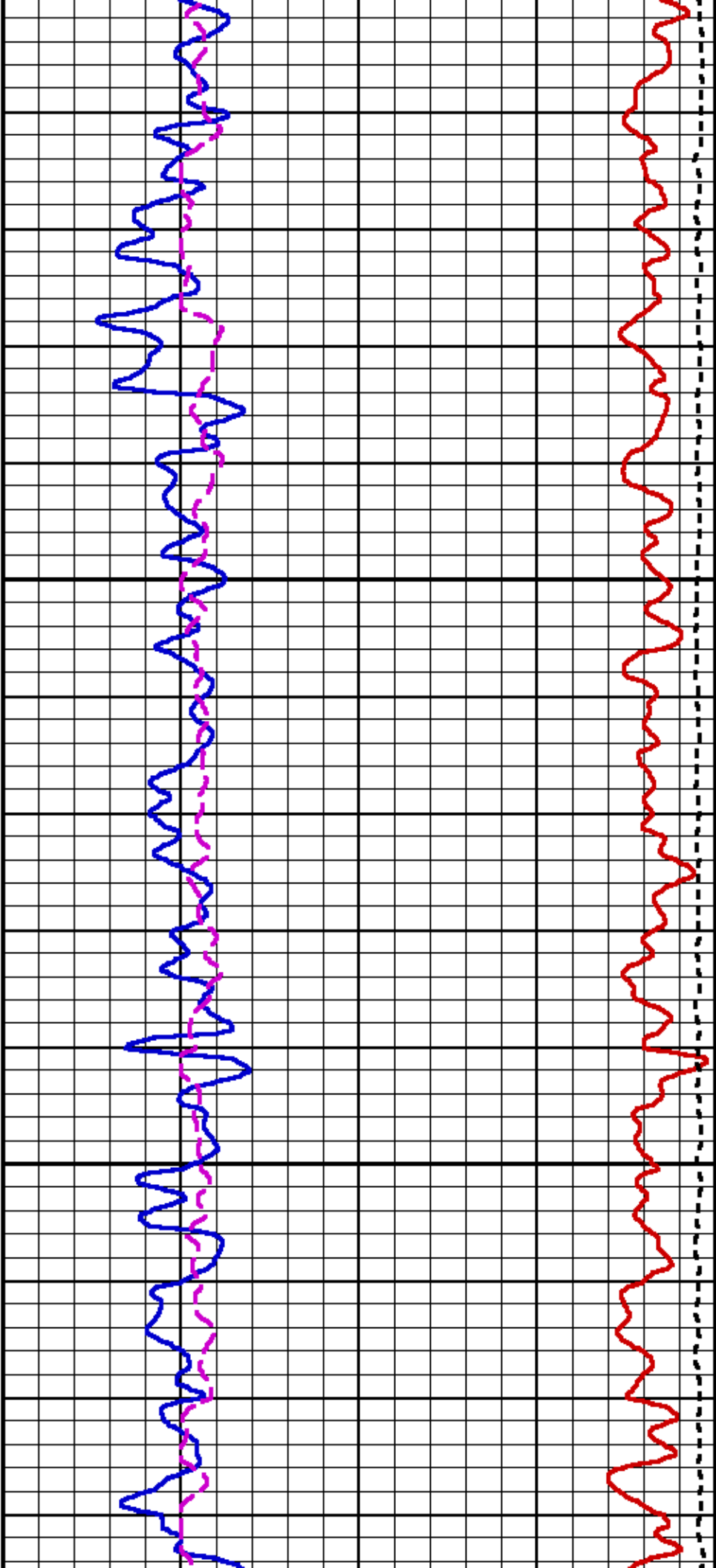
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
GR	31.39	K	31.39	QCAL	31.39	TH	31.39
GRSL	31.39	KTH	31.39	TEN	0.00	U	31.39

Presentation : opuz:/data/husky_CA212311/sl_main.pdf [1:240 Scale]
Plot Interval : 500 - 1340.89 Meters

Data File 1 : F1 : opuz:/data/husky_CA212311/m77wrh_xe03.xtf
Created On : Mar 6 22:18:03 2012
Company : HUSKY OIL OPERATIONS LIMITED
Well : LITTLE BEAR H-64
Field : SLATER RIVER
File Interval : 432.247 - 1340.95 Meters
Out : m77wrh_x



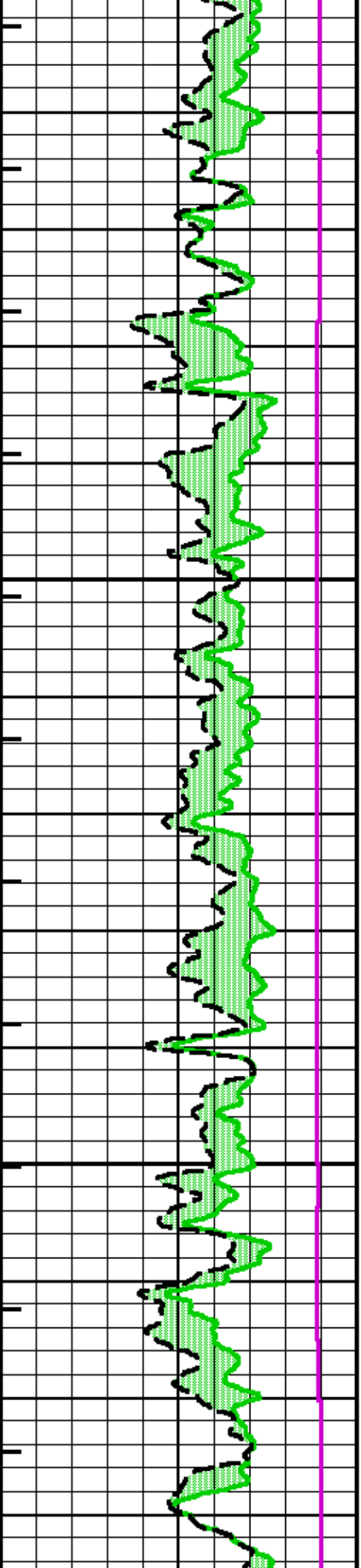


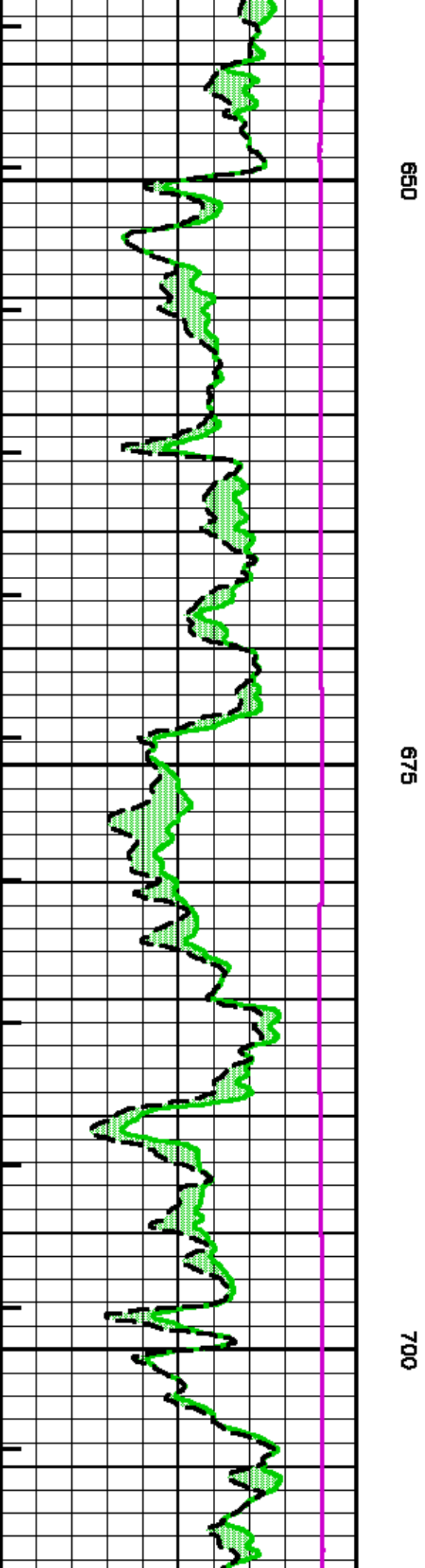
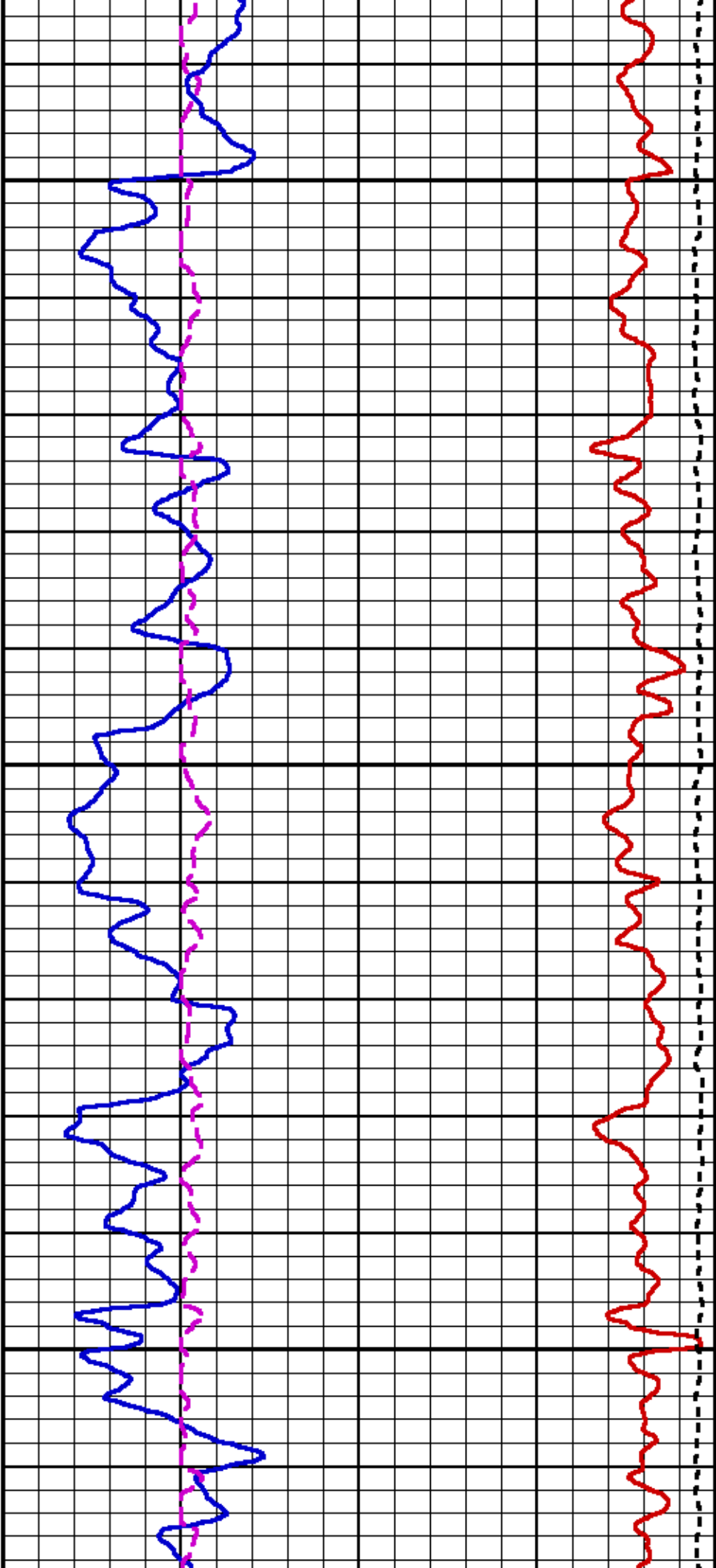


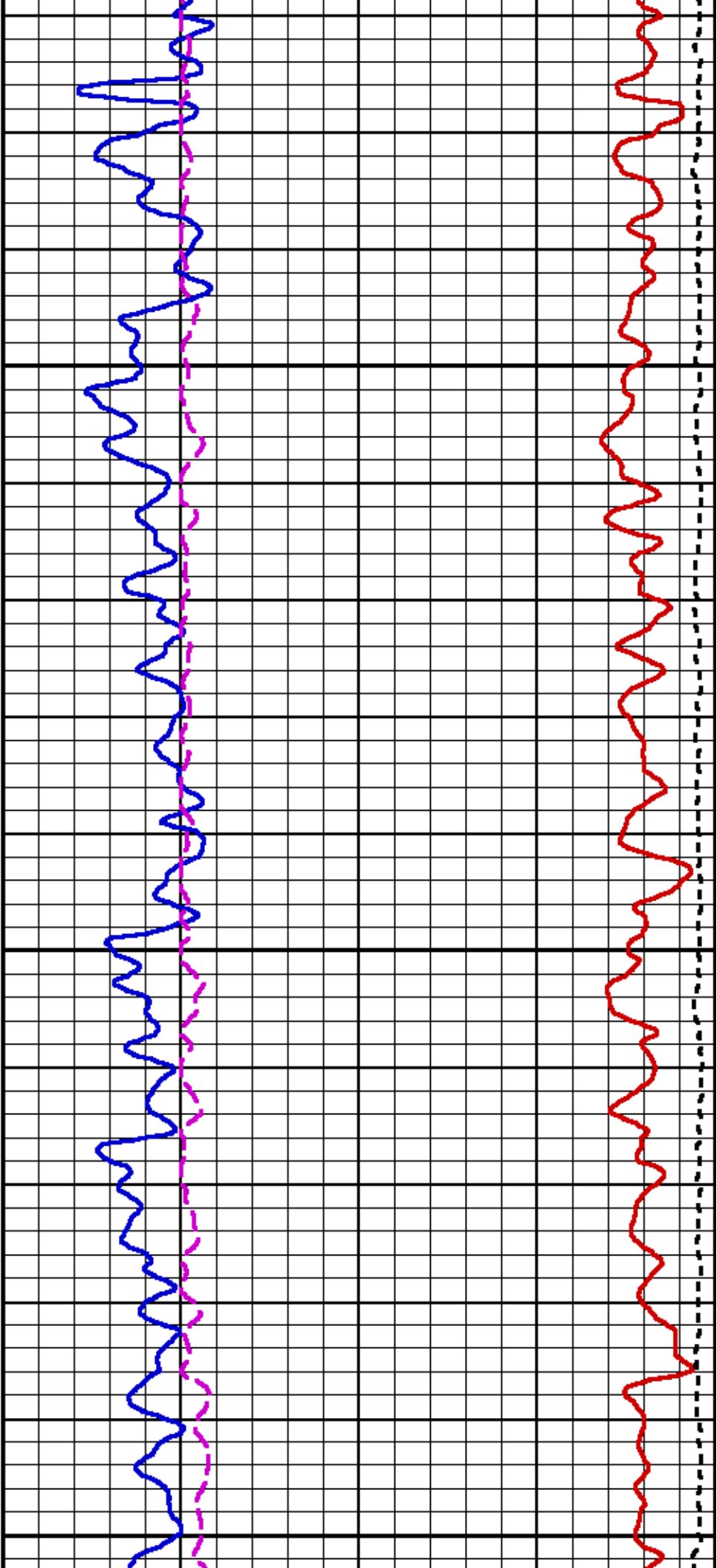
6

600

625



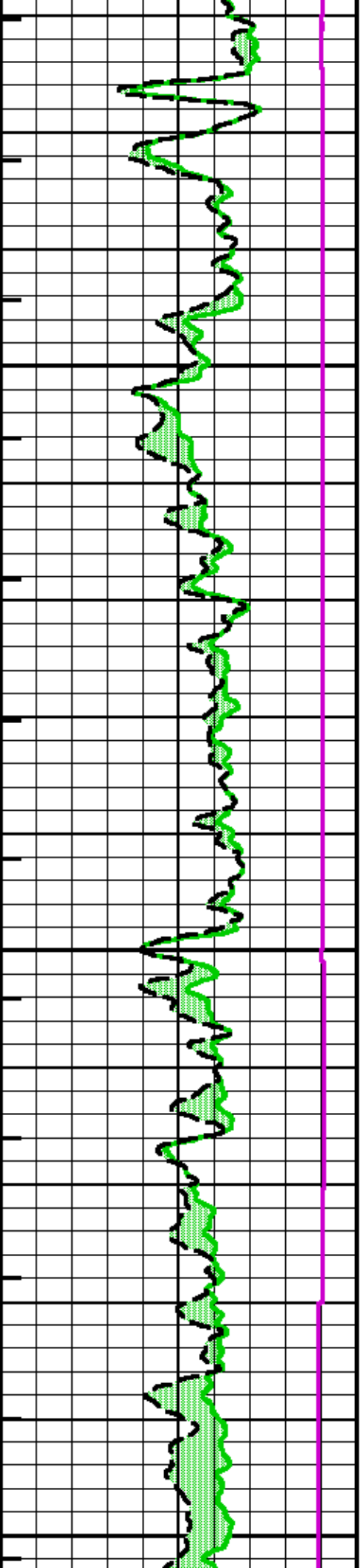


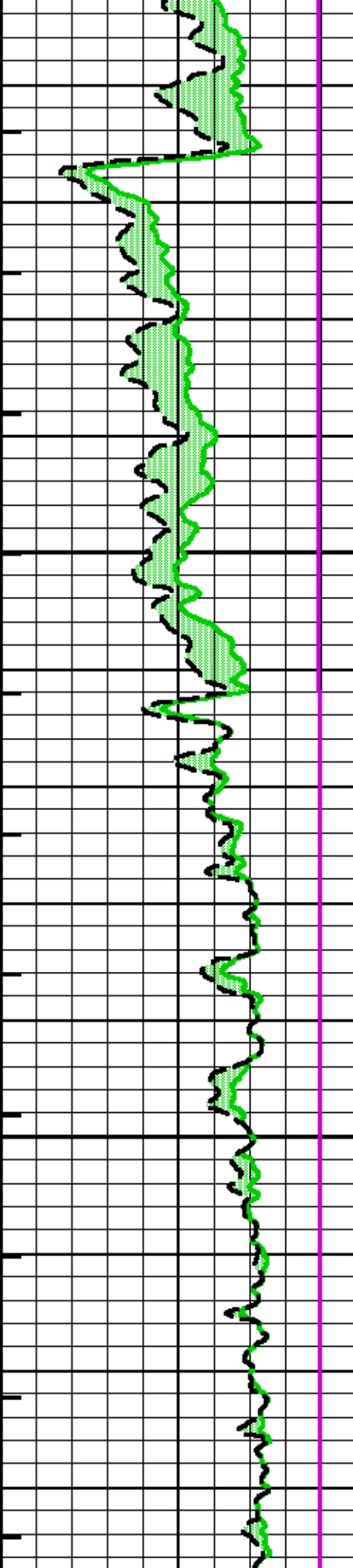


725

750

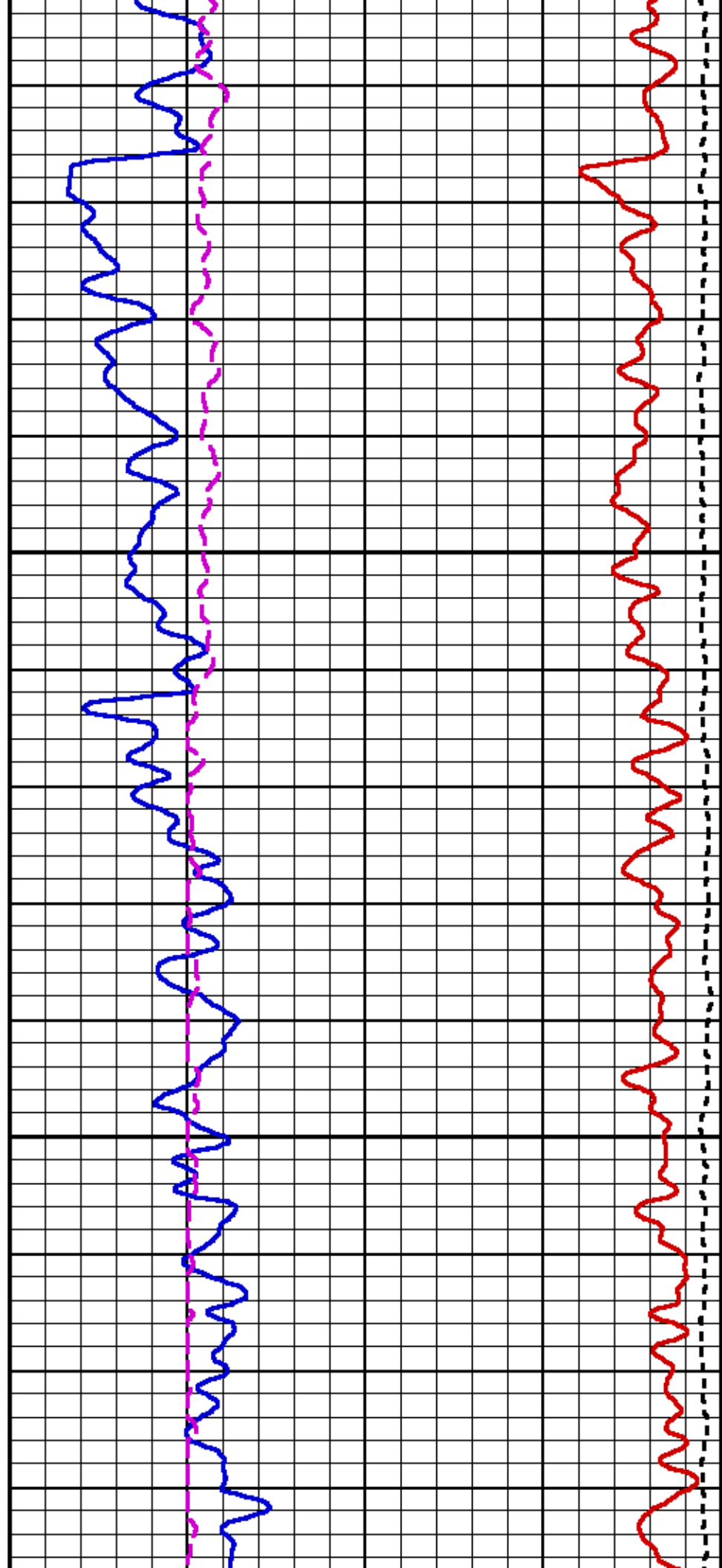
775

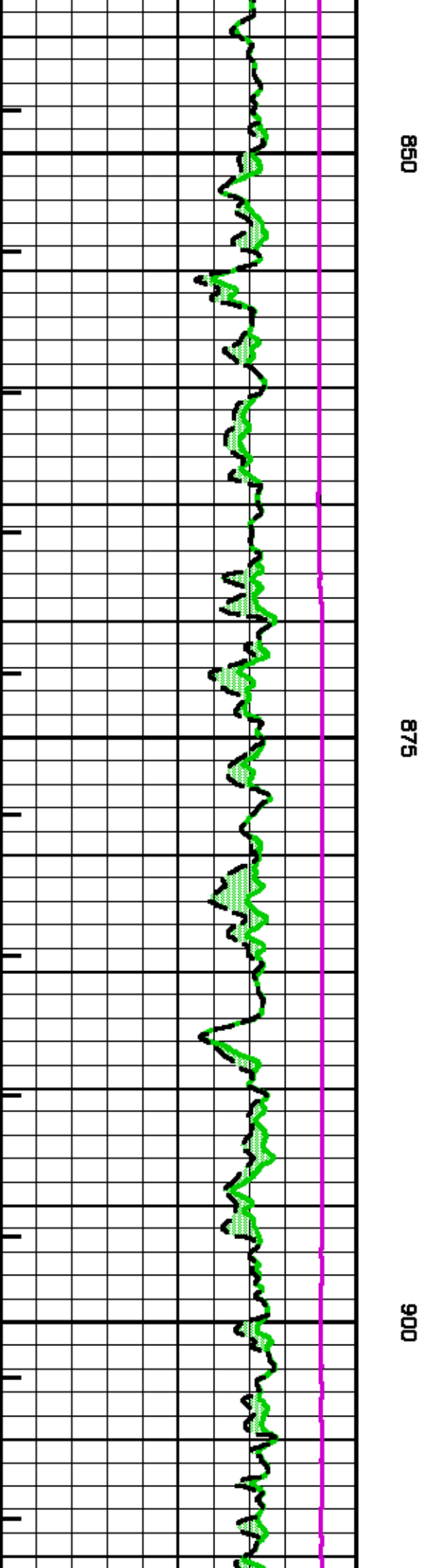
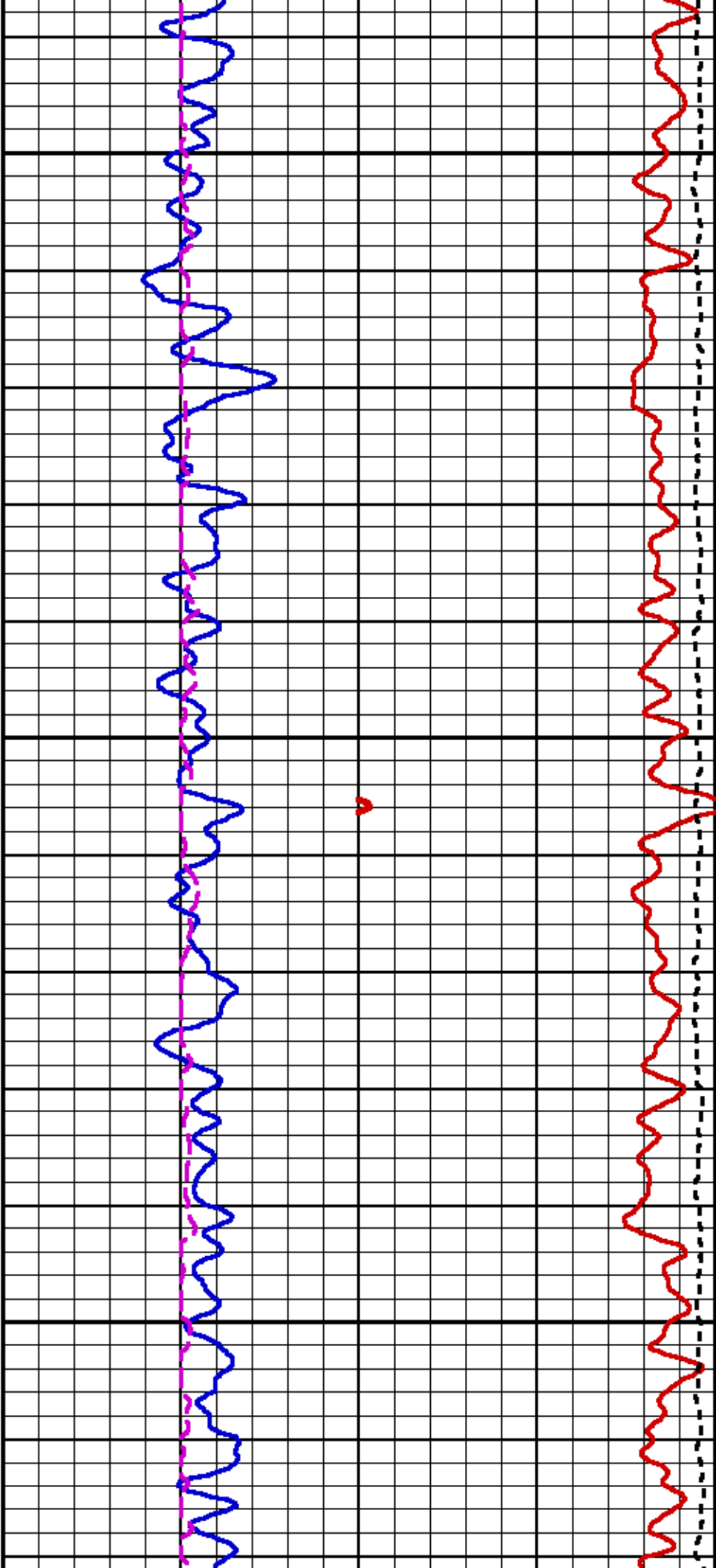


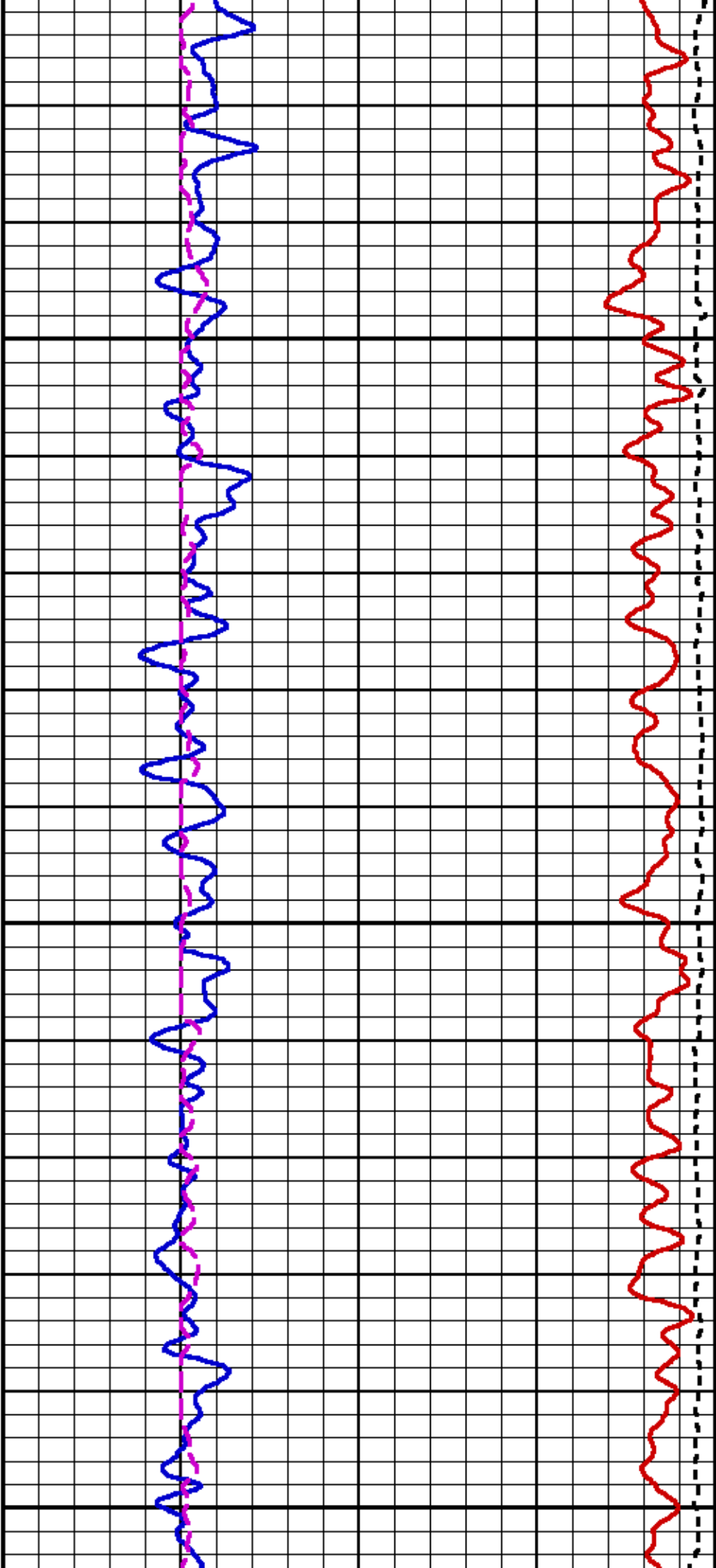


800

825



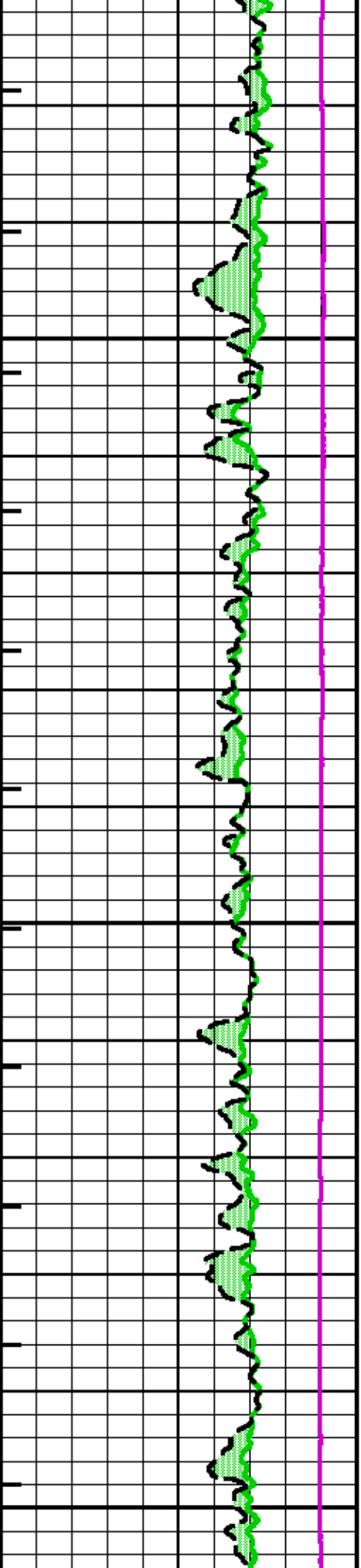


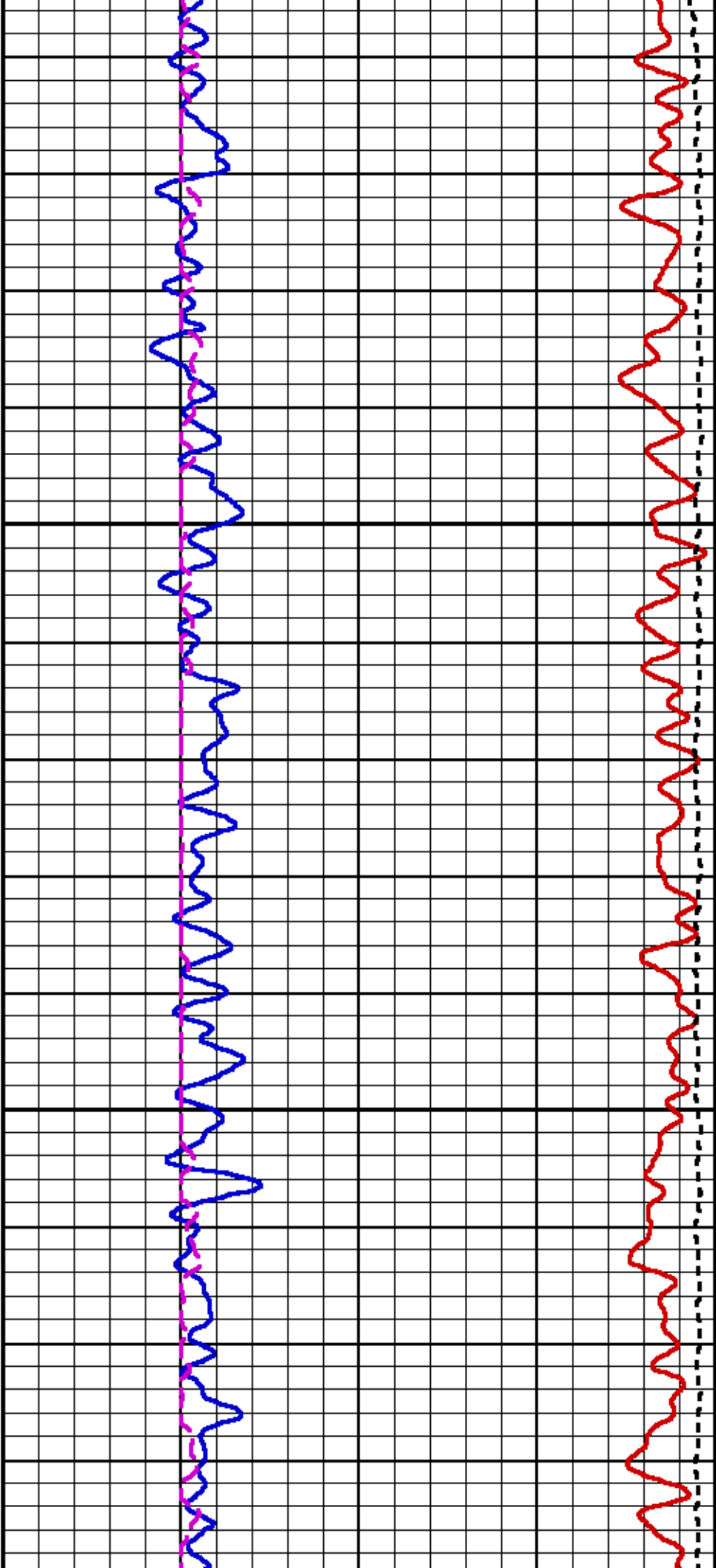


925

950

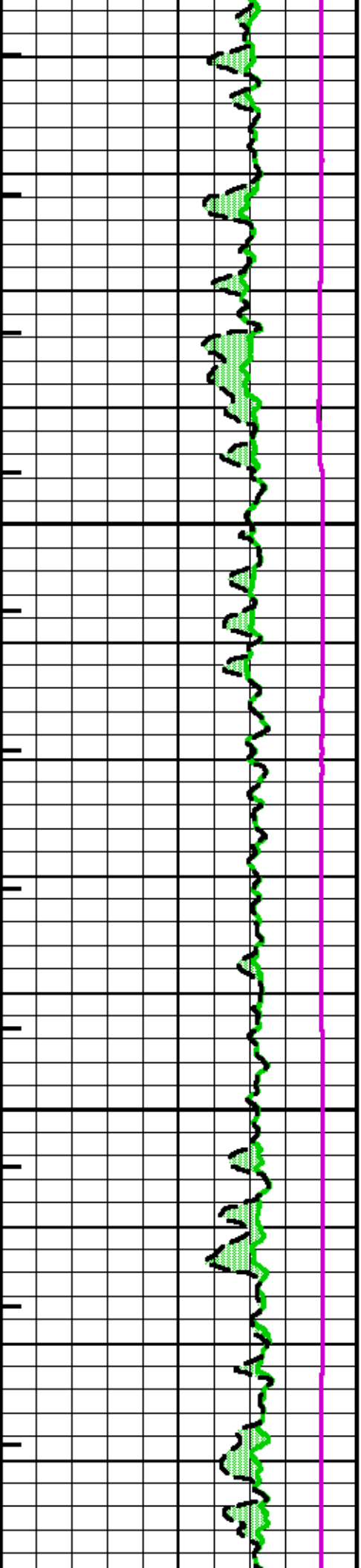
975

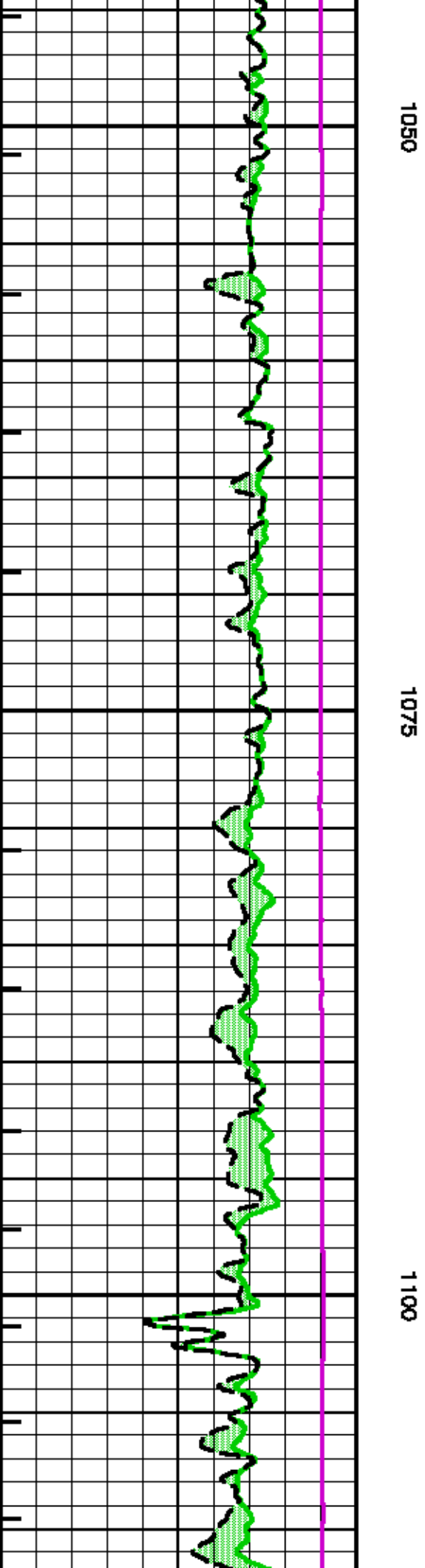
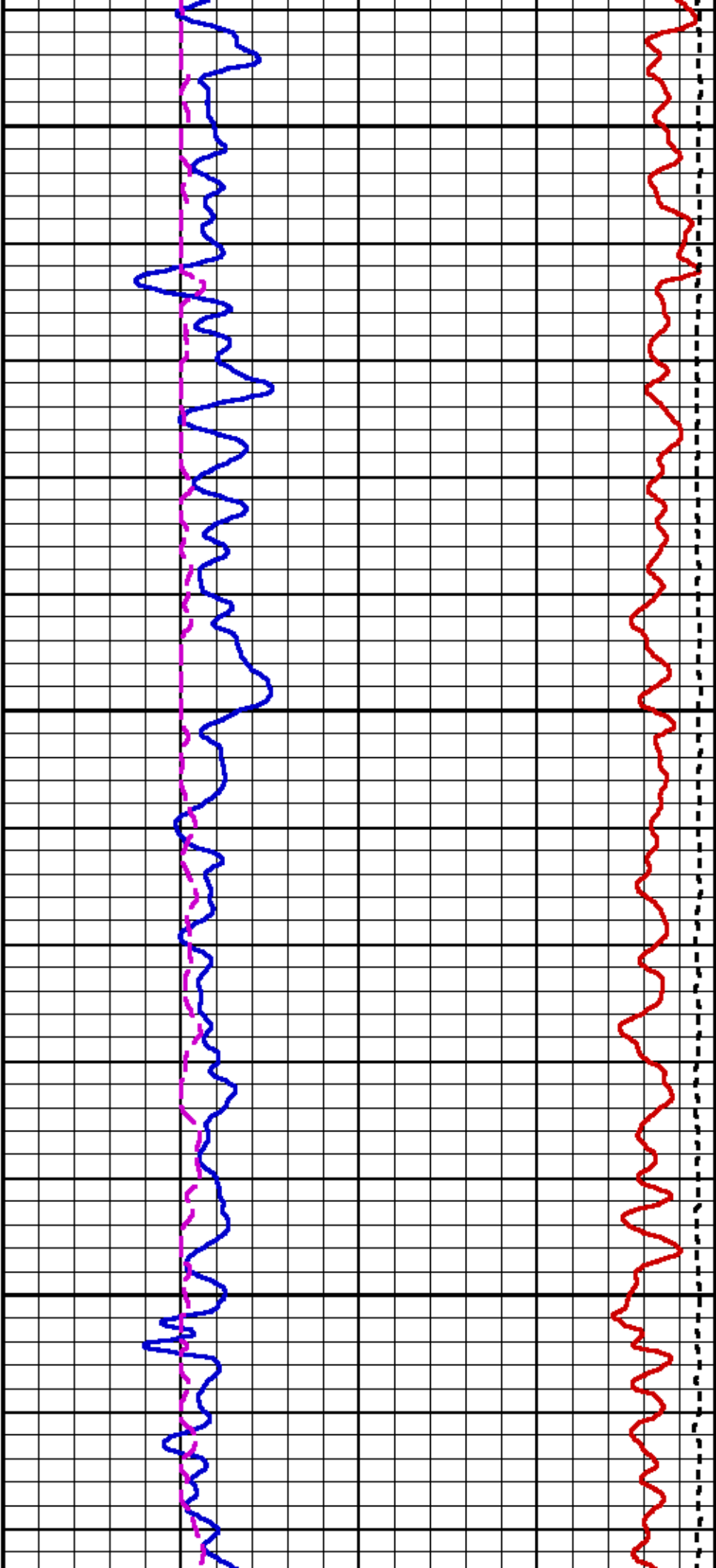


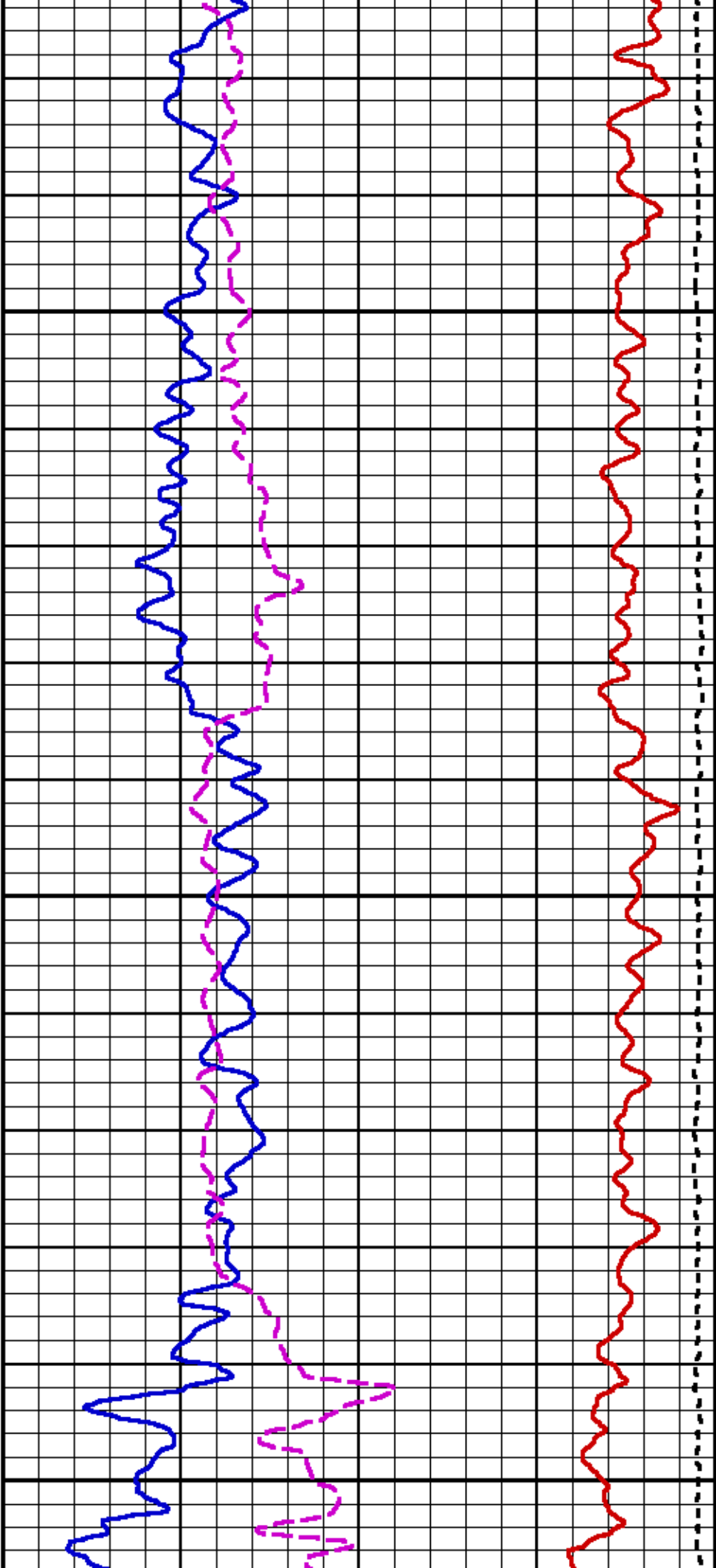


1000

1025



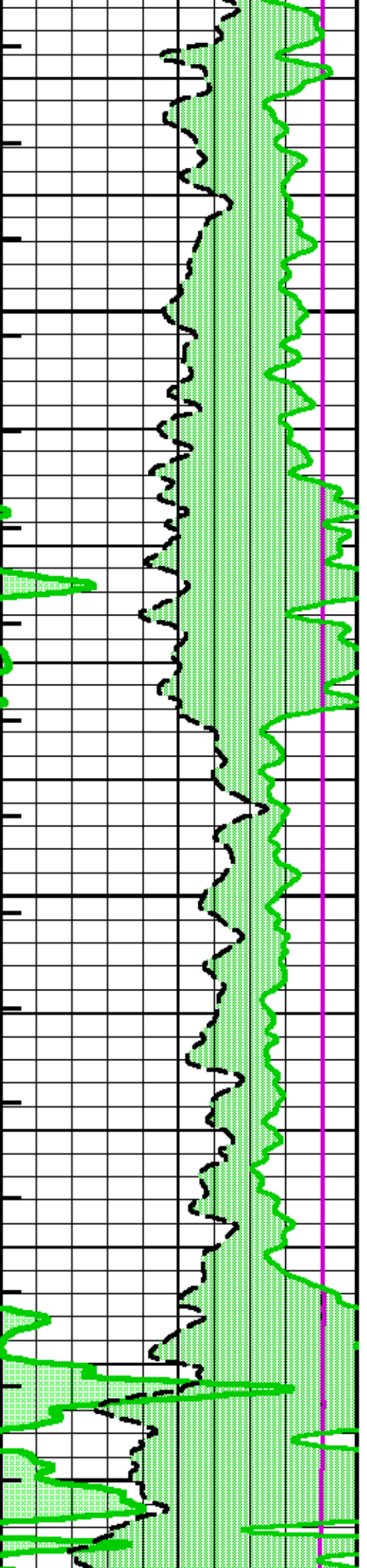


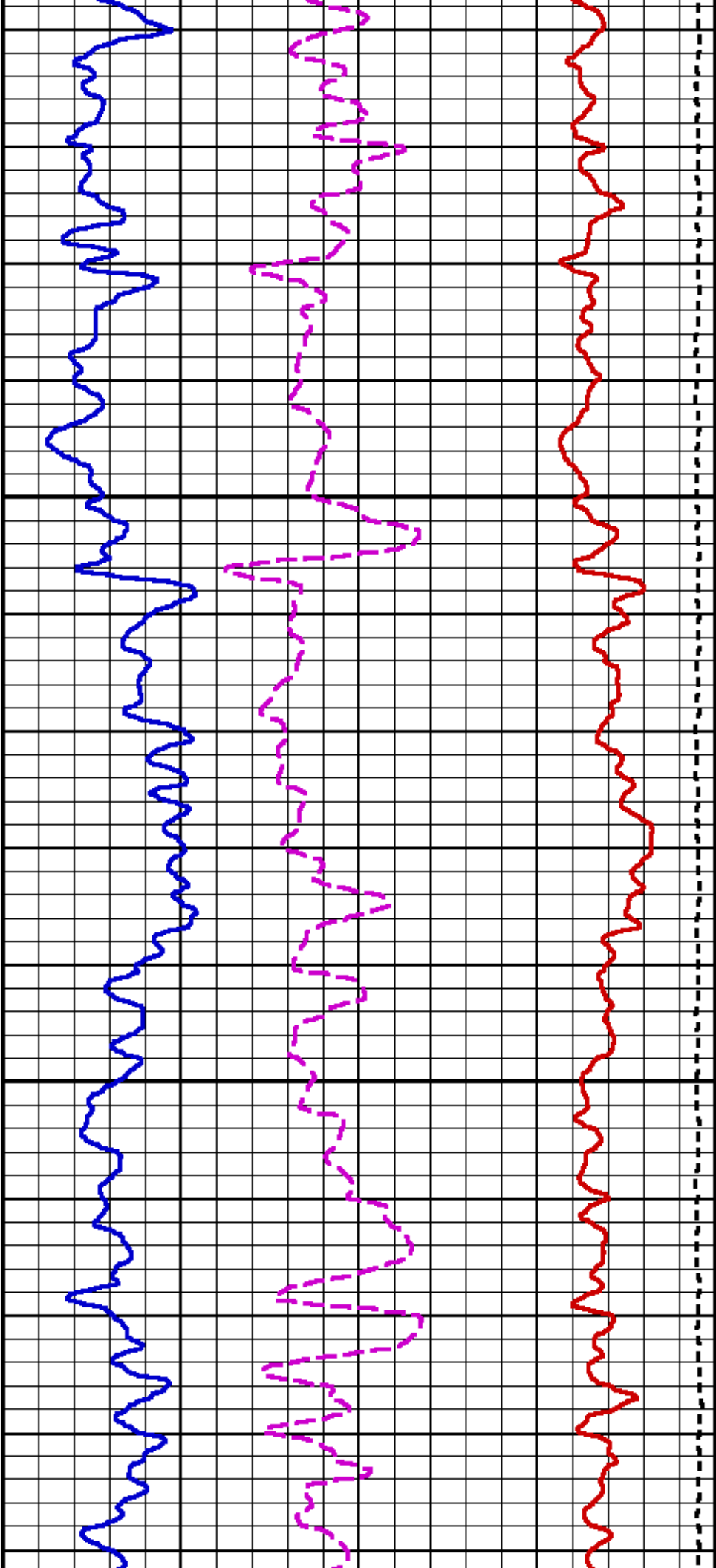


1125

1150

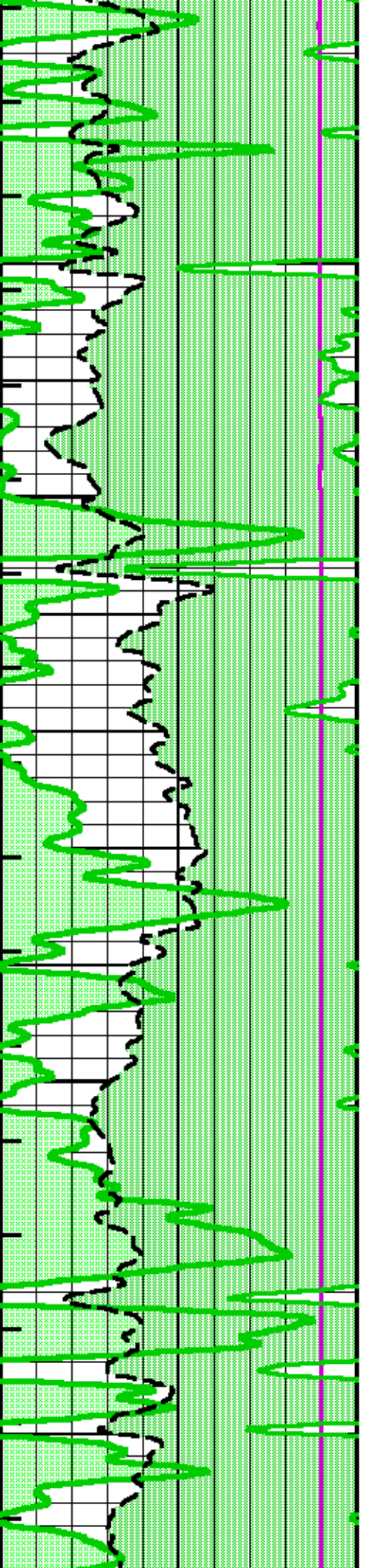
1175

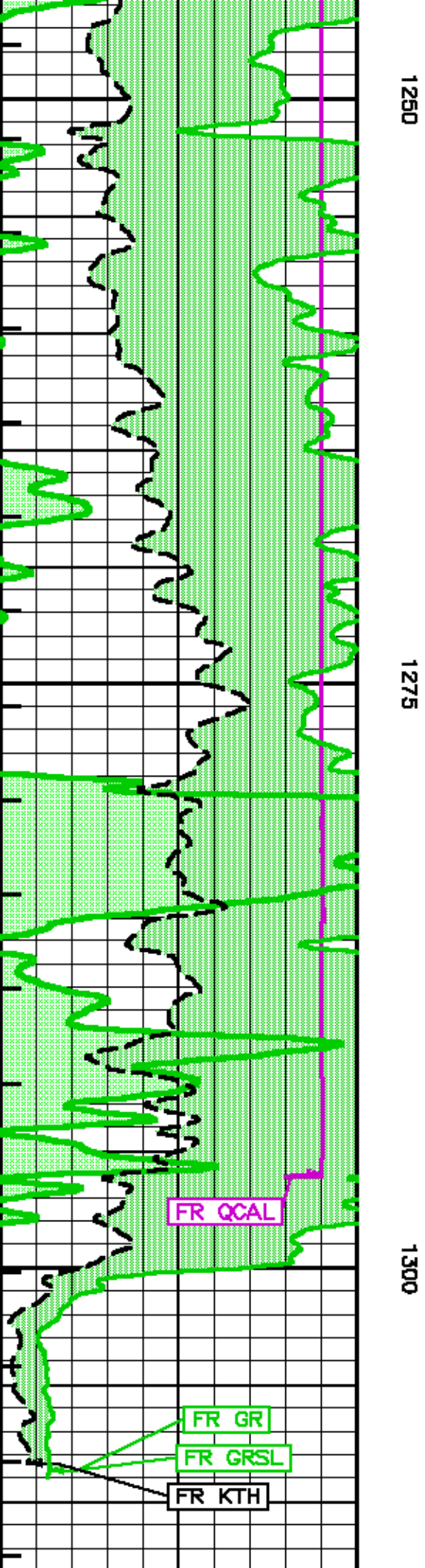
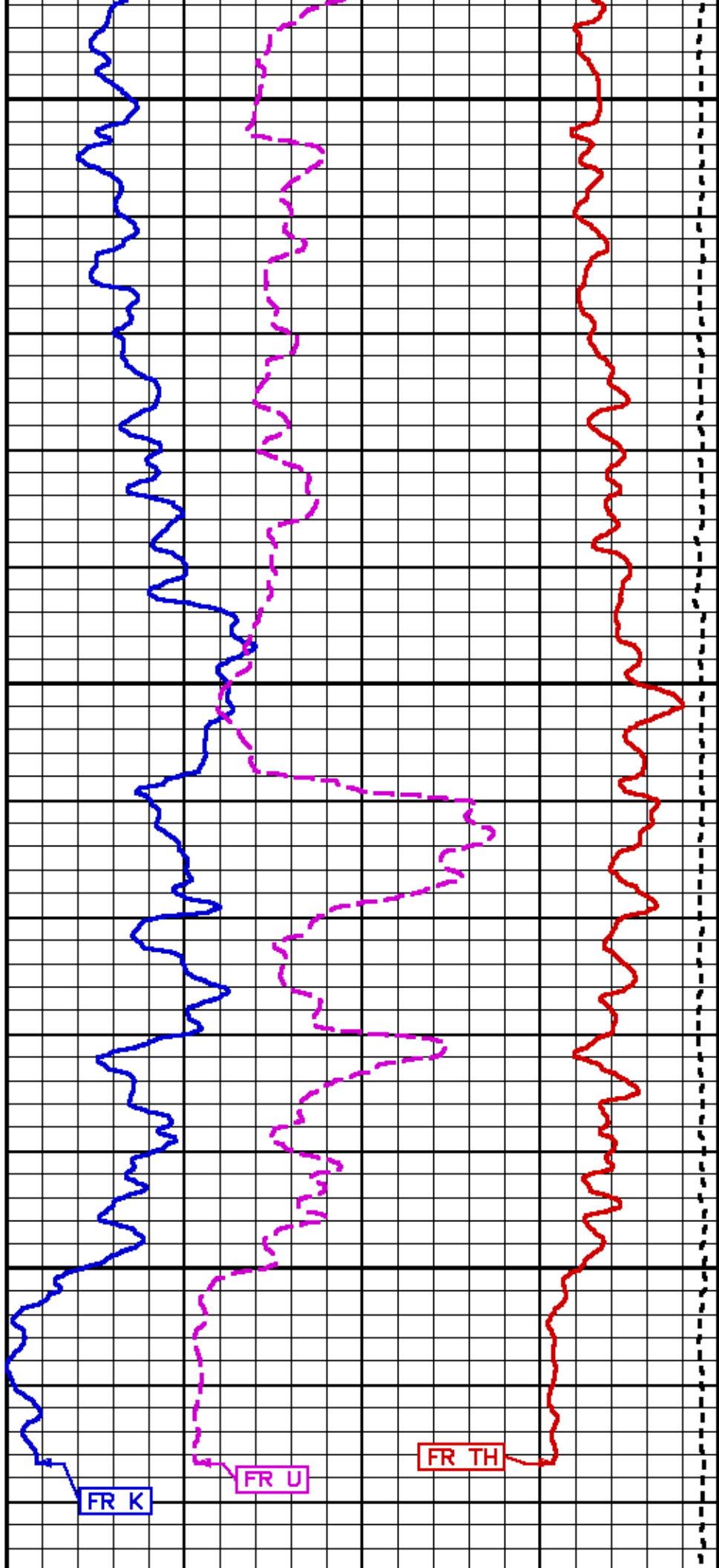


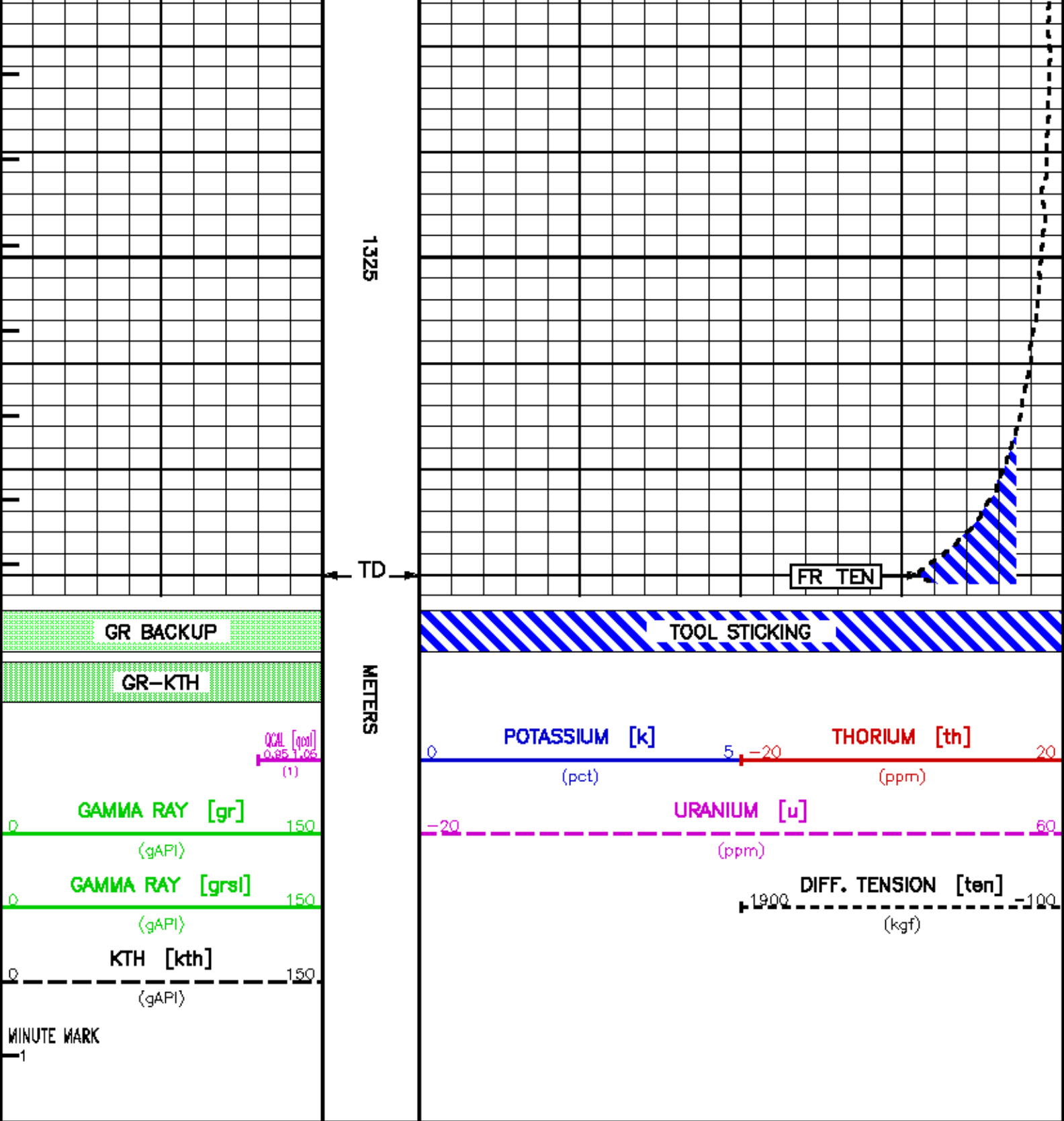


1200

1225







REPEAT LOG

PARAMETER AND FILTER SUMMARY REPORT

File: /data/husky_CA212311/m77evh_xc02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 1212.809 m BOTTOM DEPTH: 1340.929 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
CHT	FILTER (.h)	medium (1)		TOP	BOTTOM
	FILTER (.l)	medium (1)		"	"
SPEED	FILTER (.h)	medium (1)		"	"
	FILTER (.l)	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"
	FILTER ()	medium (1)		"	"
GR	FILTER (.h)	medium (1)		"	"
	FILTER (.l)	medium (1)		"	"
SL-II	FILTER	medium (1)		"	"

SLII PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)	
E MATRIX	OPEN/CASED HOLE	OPEN HOLE		TOP	BOTTOM
SLII AUTO GAIN	AUTO GAIN	AUTO GAIN ON		"	"
SLII ENERGY RANGE	ENERGY RANGE	NORMAL: 0.25-3.0 MeV		"	"
SPECTRUM CALIBRATION	MODE	AUTOMATIC		"	"

CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:GR	Mar 6 21:45:09 2012	GAMMA RAY
F1:GRSL	Mar 6 21:45:09 2012	GAMMA RAY FROM 1329 SPECTRUM
F1:K	Mar 6 21:45:09 2012	POTASSIUM CONTENT
F1:KTH	Mar 6 21:45:09 2012	STRIPPED POTASSIUM-THORIUM
F1:MMRK	Mar 6 21:45:09 2012	MINUTE MARK
F1:QCAL	Mar 6 21:45:09 2012	QUALITY CURVE
F1:SPDQH	Mar 6 21:45:09 2012	SPEED
F1:TEN	Mar 6 21:45:09 2012	DIFFERENTIAL TENSION
F1:TH	Mar 6 21:45:09 2012	THORIUM CONCENTRATION
F1:U	Mar 6 21:45:09 2012	URANIUM CONTENT

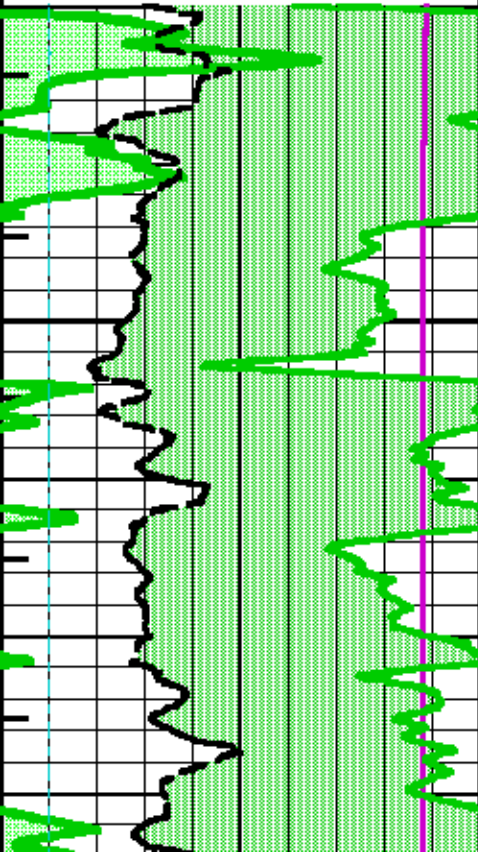
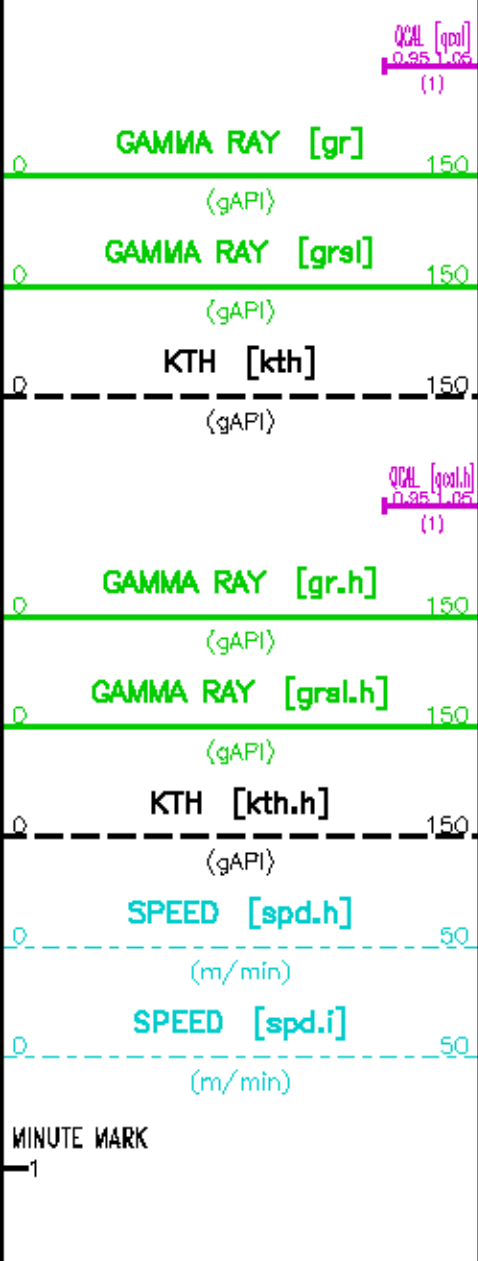
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
GR	31.39	KQH	31.43	SPDQH	0.00	U	31.39
GRQH	31.43	KTH	31.39	SPDQI	0.00	UQH	31.43
GRSL	31.39	KTHQH	31.43	TEN	0.00		
GRSLQH	31.43	QCAL	31.39	TH	31.39		
K	31.39	QCALQH	31.43	THQH	31.43		

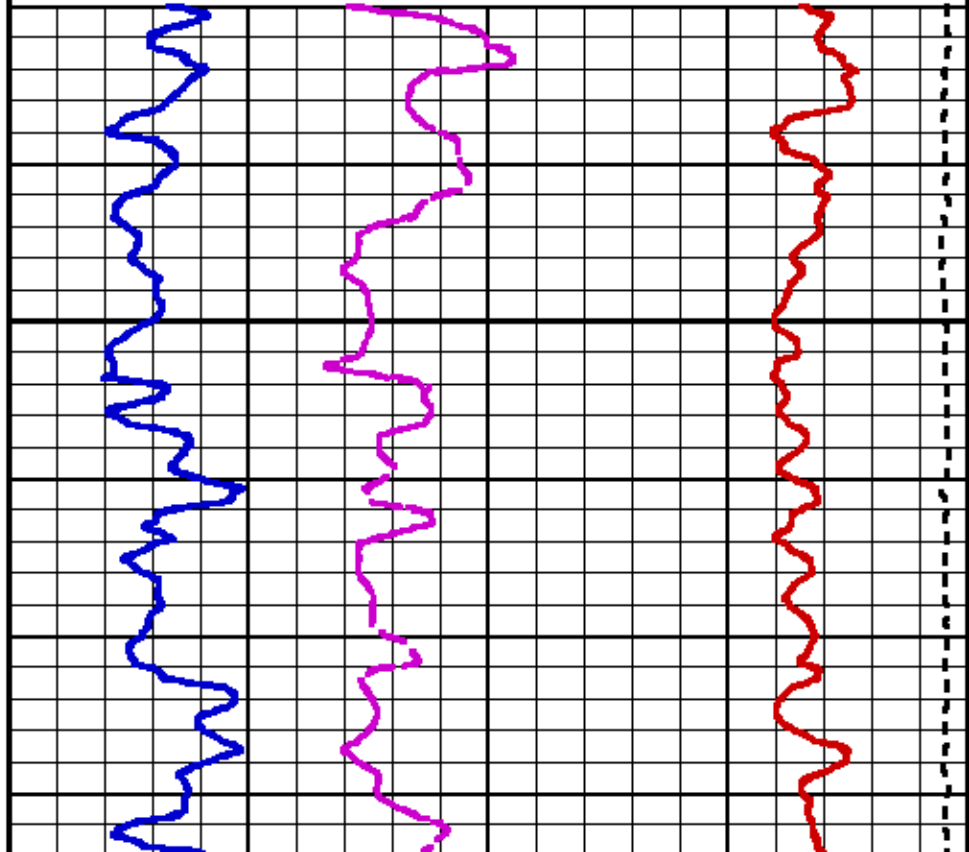
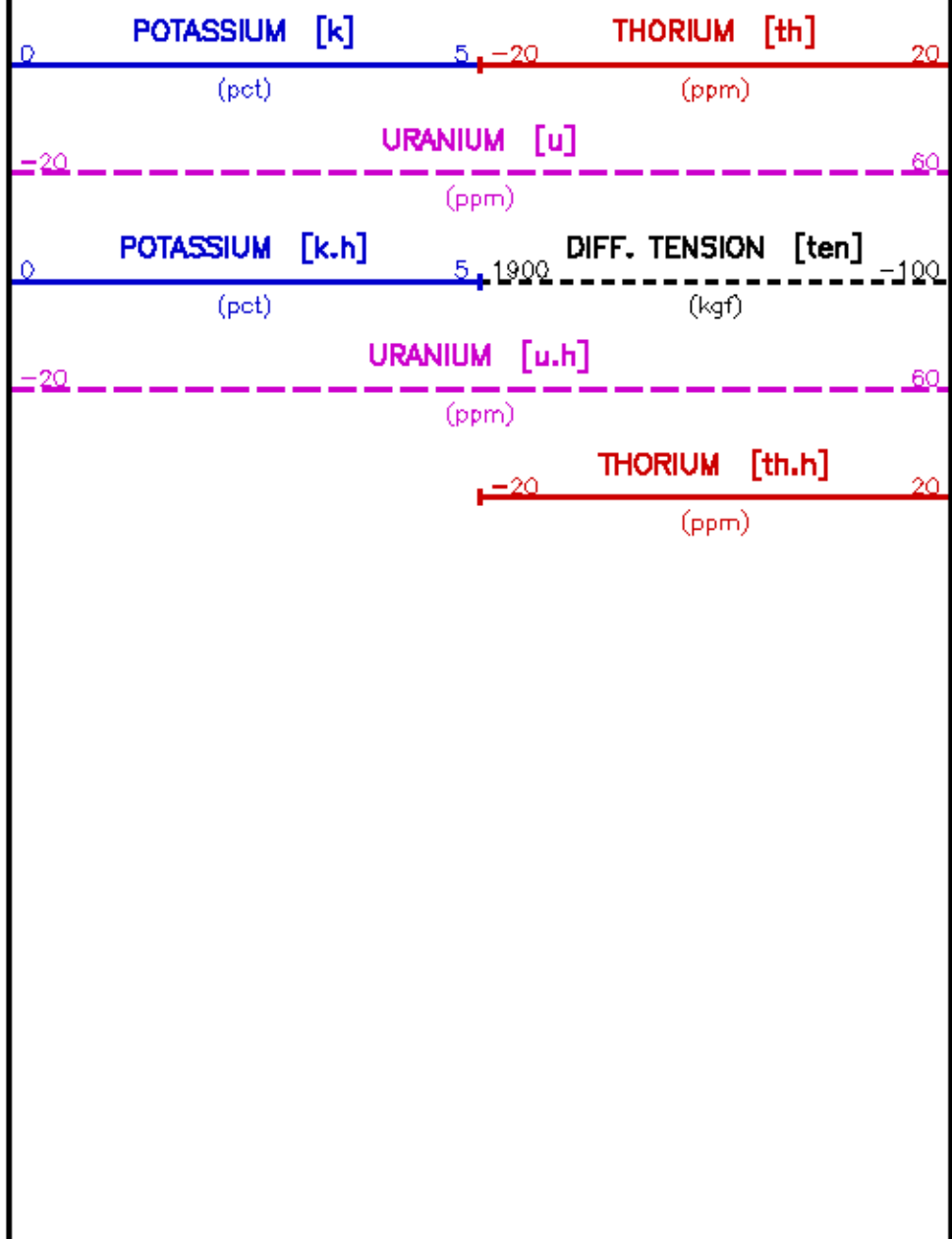
Presentation : opuz:/data/husky_CA212311/sl_rpt.pdf [1:240 Scale]
 Plot Interval : 1240 - 1340.89 Meters

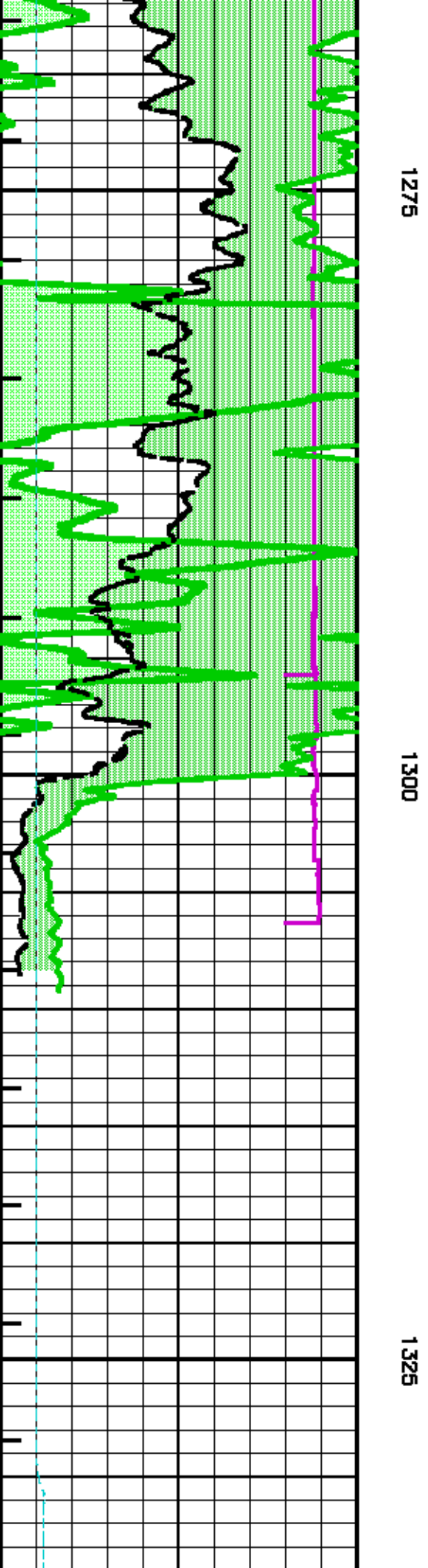
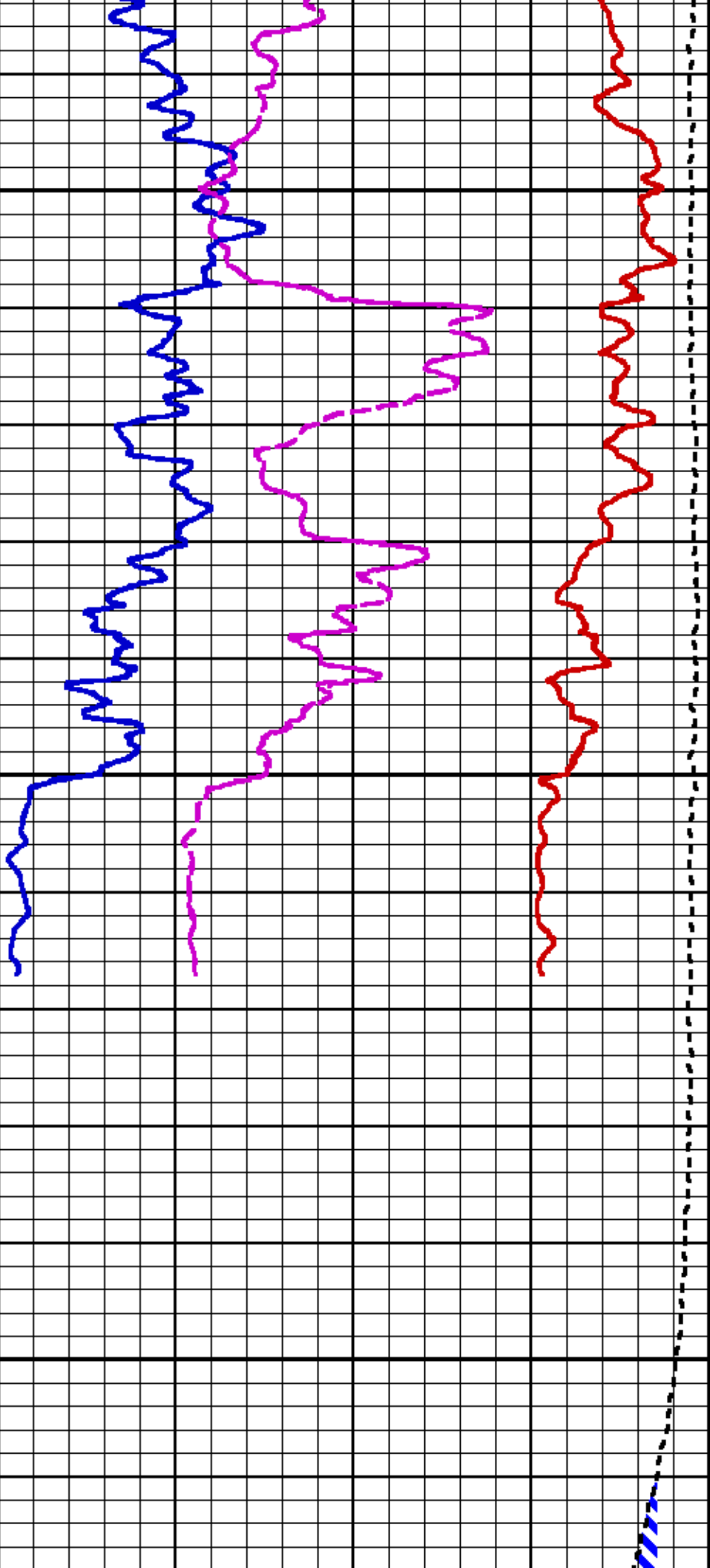
Data File 1 : F1 : opuz:/data/husky_CA212311/m77evh_xc02.aff
 Created On : Mar 6 21:45:09 2012
 Company : HUSKY OIL OPERATIONS LIMITED
 Well : LITTLE BEAR H-64
 Field : SLATER RIVER
 File Interval : 1177.06 - 1340.95 Meters
 Out : m77evh_x

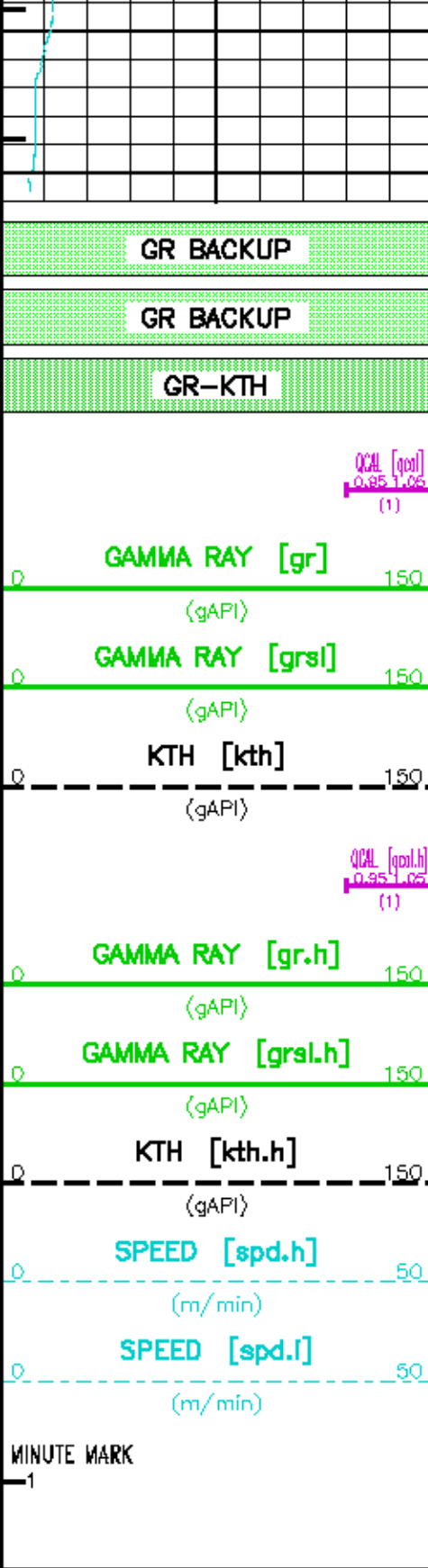
GR BACKUP	METERS	TOOL STICKING
GR BACKUP		
GR-KTH		



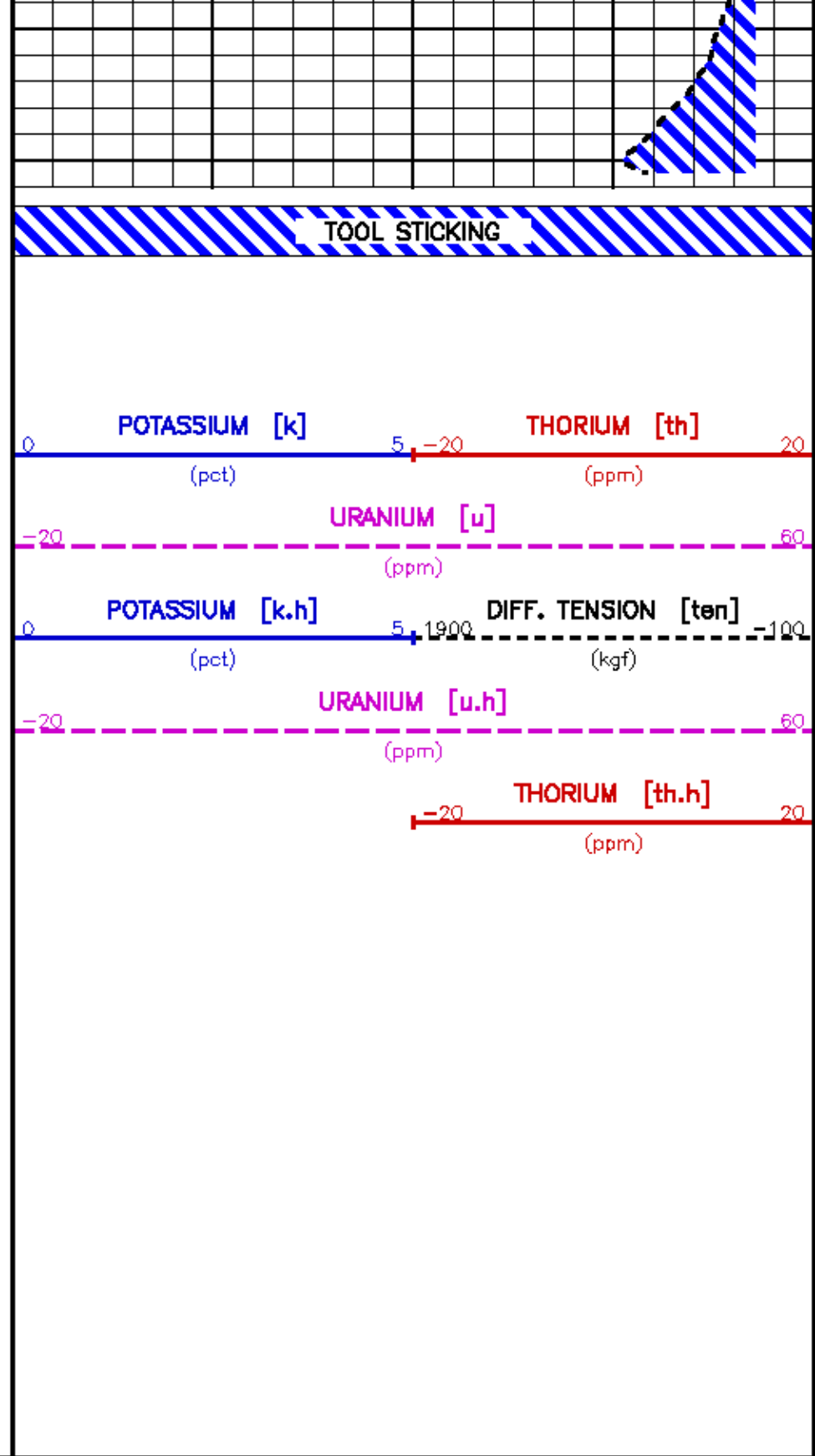
1250







METERS



CALIBRATION / VERIFICATION SUMMARY

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 11756674

DATE/TIME PERFORMED: Mon Feb 27 20:16:08 2012

UNIT #: 5753XB 10108816

CALB JIG #: 4702NK DA-554

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	147.84	1025.36	877.5	0.171	25.27	175.27	150
			830.0 960.0				

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 11756674

DATE/TIME PERFORMED: Mon Feb 27 20:21:47 2012

UNIT #: 5753XB 10108816

VERI JIG #: 4702NK DA-554

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	147.64	1027.87	0.171	25.24	175.70	150.46
						140.00 160.00

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 11756674

DATE/TIME PERFORMED: Mon Mar 5 17:29:14 2012

DAYS SINCE CAL: 6

UNIT #: 3854SA 008672

VERI JIG #: 4702NK DA-554

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	44.80	951.49	0.171	7.66	162.65	154.99
						140.46 160.46

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 11756674

DATE/TIME PERFORMED: Wed Mar 7 02:34:48 2012

DAYS SINCE CAL: 8

UNIT #: 3854SA 008672

VERI JIG #: 4702NK DA-554

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	59.27	927.44	0.171	10.13	158.54	148.40
						144.99 164.99

SLII PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 11756674

DATE/TIME PERFORMED: Mon Feb 27 20:18:03 2012

UNIT #: 5753XB 10108816

CALIBRATOR ID: 4702NA DA-554

	Bkgnd (cts/s)	Cal ON (cts/s)	Mult (gAPI/(cts/s))	Bkgnd (gAPI)	Cal ON (gAPI)	Cal Value (gAPI)
GR-SL (.06-3.5)	143.40	1024.60	0.171	24.40	174.40	150

	Std Rate (cts/s)	Meas Rate (cts/s)	Tool Norm	Std Mult	Log Mult	App Con (pct ppm)
E (.25-3.0)	554	545.6	1.015			
			0.900 1.100			

K	0.01602	0.01627	8.900
---	---------	---------	-------

U	0.03851	0.03910	21.300
---	---------	---------	--------

TH	0.10135	0.10290	56.100
----	---------	---------	--------

	Mult chnl/MeV	Add chnls	QSA	QCAL	GAIN	U Pk Res %
SPECTRUM	72.260	0.704	0.954	1.007	3012	8.81
			0.000 1.000	0.980 1.020	2950 3060	10.00

	P1 .352 MeV	P2 .609 MeV	P3 1.120 MeV	P4 1.765 MeV	P5 2.204 MeV
Std Pk	25.80	44.20	81.00	127.40	159.00
Meas Pk	25.33	44.84	82.78	128.34	159.39
	22.80 28.80	40.20 48.20	76.00 86.00	121.40 133.40	152.00 166.00
Fit Pk	26.14	44.71	81.63	128.24	159.96

SL II PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 11756674

DATE/TIME PERFORMED: Mon Feb 27 20:23:09 2012

UNIT #: 5753XB 10108816

CALIBRATOR ID: 4702NA DA-554

	Bkgnd (cts/s)	Cal ON (cts/s)	Mult (gAPI/(cts/s))	Bkgnd (gAPI)	Cal ON (gAPI)	Cal Value (gAPI)
GR-SL (.06-3.5)	141.18	1013.32	0.171	24.01	172.47	148
						135 165

	Std rate (cts/s)	Meas rate (cts/s)	Tool norm	Std Mult	Log Mult	App Con (pct ppm)
E (.25-3.0)	554	538.1	1.015			

K	0.01602	0.01627	8.753
			8.010 9.790

U	0.03851	0.03910	21.040
			19.170 23.430

TH	0.01602	0.10290	55.373
			50.490 61.710

	Mult chnl/MeV	Add chnls	QSA	QCAL	GAIN	U Pk Res %
SPECTRUM	72.483	0.721	0.928 0.000 1.000	1.010 0.980 1.020	3012	9.75
	P1 .352 MeV	P2 .609 MeV	P3 1.120 MeV	P4 1.765 MeV	P5 2.204 MeV	
Std Pk	25.80	44.20	81.00	127.40	159.00	
Meas Pk	25.43 22.80 28.80	45.01 40.20 48.20	82.98 76.00 86.00	128.87 121.40 133.40	159.84 152.00 166.00	
Fit Pk	26.24	44.86	81.90	128.65	160.47	

SL_I1 BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 11756674 DATE/TIME PERFORMED: Mon Mar 5 17:59:14 2012 DAYS SINCE CAL: 6

UNIT #: 38545A 008672 CALIBRATOR ID: 4702NA DA-554

	Bkgnd (cts/s)	Cal ON (cts/s)	Mult (gAPI/(cts/s))	Bkgnd (gAPI)	Cal ON (gAPI)	Cal Value (gAPI)
GR-SL (.06-3.5)	45.13	953.37	0.171	7.65	161.99	154 135 165

	Std rate (cts/s)	Meas rate (cts/s)	Tool norm	Std Mult	Log Mult	App Con (pct ppm)
E (.25-3.0)	554	550.4	1.015			

K	0.01602	0.01627	8.952 8.010 9.790
U	0.03851	0.03910	21.521 19.170 23.430
TH	0.01602	0.10290	56.638 50.490 61.710

	Mult chnl/MeV	Add chnls	QSA	QCAL	GAIN	U Pk Res %
SPECTRUM	71.306	1.017	0.940 0.000 1.000	0.996 0.980 1.020	3027	9.43
	P1 .352 MeV	P2 .609 MeV	P3 1.120 MeV	P4 1.765 MeV	P5 2.204 MeV	
Std Pk	25.80	44.20	81.00	127.40	159.00	
Meas Pk	25.27 22.80 28.80	44.65 40.20 48.20	81.93 76.00 86.00	127.10 121.40 133.40	157.54 152.00 166.00	
Fit Pk	26.12	44.44	80.88	126.87	158.17	

SL_I1 AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 11756674 DATE/TIME PERFORMED: Wed Mar 7 02:42:26 2012 DAYS SINCE CAL: 8

UNIT #: 3854SA 008672 CALIBRATOR ID: 4702NA DA-554

	Bkgnd (cts/s)	Cal ON (cts/s)	Mult (gAPI/(cts/s))	Bkgnd (gAPI)	Cal ON (gAPI)	Cal Value (gAPI)
GR-SL (.06-3.5)	57.50	922.37	0.171	9.80	157.32	148
						135 165

	Std rate (cts/s)	Meas rate (cts/s)	Tool norm	Std Mult	Log Mult	App Con (pct ppm)
E (.25-3.0)	554	536.1	1.015			

K		0.01602	0.01627	8.719	8.010 9.790
U		0.03851	0.03910	20.960	19.170 23.430
TH		0.01602	0.10290	55.162	50.490 61.710

	Mult chnl/MeV	Add chnls	QSA	QCAL	GAIN	U Pk Res %
SPECTRUM	71.805	0.402	0.978	0.998	3001	9.93
			0.000 1.000	0.980 1.020		

	P1 .352 MeV	P2 .609 MeV	P3 1.120 MeV	P4 1.765 MeV	P5 2.204 MeV
Std Pk	25.80	44.20	81.00	127.40	159.00
Meas Pk	24.87	44.26	81.87	127.48	157.94
	22.80 28.80	40.20 48.20	76.00 86.00	121.40 133.40	152.00 166.00
Fit Pk	25.68	44.13	80.82	127.14	158.66



COMPANY WELL FIELD PROVINCE	HUSKY OIL OPERATIONS LIMITED		FILE NO:
	LITTLE BEAR H-64		
	SLATER RIVER		API NO:
	NORTHWEST TERRITORIES		
LOCATION:		ELEVATIONS:	UID:
SURF LOC:		KB 183.2 M	300H64500126000
LAT 64 53' 28.5"N LONG 128 11' 20.3"W		DF	LICENSE:
BH LOC. LSD:		GL 178.0 M	482
LAT 64 53' 28.5"N LONG 128 11' 20.3"W		DATE	08-MAR-2012