



HIGH DEFINITION INDUCTION LOG SM

COMPENSATED Z-DENSILOG SM

COMPENSATED NEUTRON LOG

CROSS-MULTIPOLE ARRAY ACOUSTILOG

GAMMA RAY LOG

X-Y AXIS CALIPER LOG

FILE NO:	COMPANY	MGM ENERGY CORP
API NO:	WELL	MGM SHELL EAST MACKAY 1-78
	FIELD	EAST MACKAY
	PROVINCE	NORTHWEST TERRITORIES

Ver. 3.87	LOCATION:	OTHER SERVICES
LICENSE: 1202	LAT 64.795 LONG -125.722	2ZDL-CN-GR-XYCAL HDIL-GR-CAL, CVL XMAC-GR

PERMANENT DATUM	G.L.	ELEVATION	155.00 M	ELEVATIONS:
LOG MEASURED FROM	K.B.	6.2 M	ABOVE P.D.	KB 161.2 M
DRILL MEAS. FROM	KELLY BUSHING			DF
				GL 155.00 M

DATE	29-JAN-2013	
RUN	TRIP	1
SERVICE ORDER	CA215445	
DEPTH DRILLER	405.2 M	
DEPTH LOGGER	404.0 M	
BOTTOM LOGGED INTERVAL	403.0 M	
TOP LOGGED INTERVAL	23.0 M	
CASING DRILLER	406.4 MM @ 22.5 M	
CASING LOGGER	22.5 M	
BIT SIZE	311.0 MM	
TYPE OF FLUID IN HOLE	MILL GEL MUD SLURRY	
DENSITY	VISCOSITY	1140.0 G/L 78] S
PH	FLUID LOSS	8.0 10.6 ML
SOURCE OF SAMPLE	FLOWLINE	
RM AT MEAS. TEMP.	1.60 OHMM @ 19.0 DEGC	
RMF AT MEAS. TEMP.	1.20 OHMM @ 15.0 DEGC	
RMC AT MEAS. TEMP.	2.20 OHMM @ 16.0 DEGC	
SOURCE OF RMF	RMC	MEASURED MEASURED
RM AT BHT	1.40 OHMM @ 25.5 DEGC	
TIME SINCE CIRCULATION	10.0 HOURS	
MAX. RECORDED TEMP.	26.3 DEGC	
EQUIP. NO.	LOCATION	Z008672 CANADA OPEN
RECORDED BY	I.ZALESKI KH	
WITNESSED BY	D.PRIOR	

BOREHOLE RECORD			
BIT SIZE	311.0 MM		
FROM	22.5 M		
TO	405.2 M		

CASING RECORD			
SIZE	406.4 MM		
WEIGHT	81.8 KG/M		
GRADE	NA		
FROM	0.0 M		
TO	22.5 M		

BOREHOLE RECORD			
BIT SIZE	311.0 MM		
FROM	22.5 M		
TO	405.2 M		

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.

REMARKS	RUN 1 TRIP 1 : TIME STOPPED CIRCULATION: 29-JAN-2013 11:30 AM MAXIMUM TEMPERATURE ON THERMOMETERS: 26 AND 26 DEGC TEMPERATURE LOG WAS RECORDED ON THE WAY DOWN. CNC IS AVERAGE CALIPER CORRECTED. CNC AND POREZ PRESENTED IN SANDSTONE MATRIX 2.65G/CM3. INTEGRATED TRANSIT TIME TICS EVERY: 1.0, 10.0, & 100.0 μSEC. BOREHOLE AND TEMPERATURE CORRECTIONS HAVE BEEN APPLIED TO HDIL DATA. HDIL RECORDED WITH AND CORRECTED TO 38.0 MM STANDOFF.
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EQUIPMENT DATA						
RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION	
1	1	SWIVEL	3944XD	10513050	FREE	
1	1	DHPA	4430XB	10390592	FREE	
1	1	TTRM SUB	3981XB	10516528	FREE	
1	1	COMM	3514XB	10504656	FREE	
1	1	WTS DGR/SU	1329XB	10293862	FREE	
1	1	ORT	4401XB	12466129	FREE	
1	1	ACOUSTIC EL	1677EA	10383992	CENTRALIZED	
1	1	XMAG RX MDR	1678MC	10386815	CENTRALIZED	
1	1	XMAG ISO	1678PB	10039369	FREE	
1	1	XMAG TX ETC	1678BA	12168167	CENTRALIZED	
1	1	XMAG TX ETC	1678FA	12188364	CENTRALIZED	
1	1	WTS DBL KNU	3939XA	12448499	FREE	
1	1	FOC/WTS ADP	3527EA	12337591	FREE	
1	1	FOC/WTS ADP	3527FA	12494796	FREE	
1	1	TTRM SUB	3980XA	2402456	FREE	
1	1	FOCUS CN	2436XA	10105638	DECENTRALIZED	
1	1	FOCUS ZDEN	2223XA	10391896	PAD DEVICE	
1	1	DBL KNUIT	3931XA	10469360	FREE	
1	1	ALGMNT SUB	4408NA	10265502	FREE	
1	1	FOCUS ZDEN	2223XA	10102923	PAD DEVICE	
1	1	DBL KNUIT	3931XA	10189700	FREE	
1	1	FOCUS HDIL	1530XA	10125755	STANDOFF	

INSTRUMENT CONFIGURATION

Source File: /data/MCM/run1_oh/m980g_mgm_R1-tdg

CABLEHEAD
Diameter : 8.6 cm
Length : 167.6 cm
Weight : 10.9 kg
Series : CABL338
Mnemonic : CBLH
Measure Point: 83.8 cm: CABLEHEAD TOP

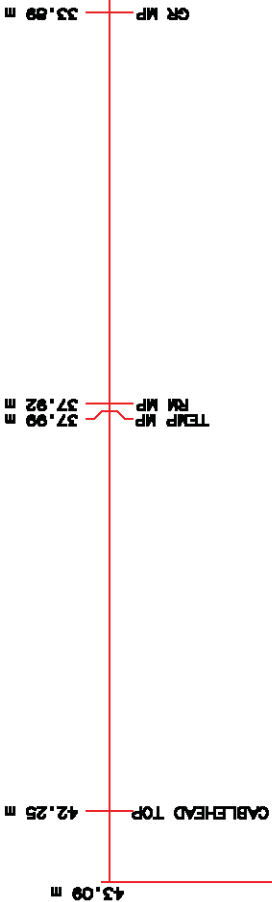
SWIVEL
Diameter : 8.6 cm
Length : 108.7 cm
Weight : 30.9 kg
Series : 3944XD

DOWNHOLE POWER ADAPTER
Diameter : 9.2 cm
Length : 160.7 cm
Weight : 39.1 kg
Series : 4430XB
Mnemonic : DHPA

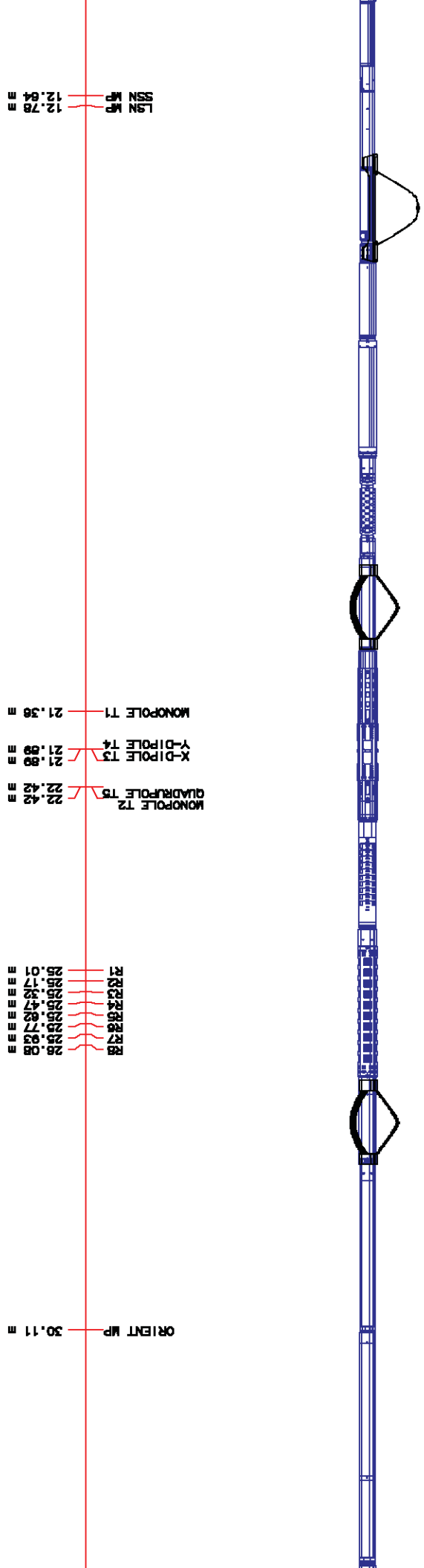
TTRM SUB
Diameter : 9.2 cm
Length : 116.8 cm
Weight : 28.2 kg
Series : 3981XA
Mnemonic : TTRM

WTS COMMON REMOTE
Diameter : 9.2 cm
Length : 194.0 cm
Weight : 67.3 kg
Series : 3514XB
Mnemonic : WTS

DIGITAL SPECTRACLO
Diameter : 9.2 cm
Length : 222.8 cm
Weight : 59.1 kg
Series : 1329XA
Mnemonic : DSL
Measure Point: 46.8 cm: GR MP



DIGITAL ORIENTATION	Diameter : 8.6 cm	Length : 329.4 cm	Weight : 50.0 kg	Series : 4401XB	Mnemonic : ORIT	Measure Point : 0.0 cm: ORIENT MP
ARRAY ACOUSTIC LOG ELECTRONICS, 8 CHANNEL	Diameter : 8.6 cm	Length : 239.3 cm	Weight : 48.4 kg	Series : 1877EA	Mnemonic : XM4C	
CROSS MULTIPOLE ARRAY ACOUSTIC LOG	Diameter : 9.5 cm	Length : 332.4 cm	Weight : 101.8 kg	Series : 1878MC	Mnemonic : XM4F1	Measure Point : 187.6 cm: R8 Measure Point : 152.4 cm: R7 Measure Point : 137.2 cm: R6 Measure Point : 121.9 cm: R5 Measure Point : 108.7 cm: R4 Measure Point : 91.4 cm: R3 Measure Point : 76.2 cm: R2 Measure Point : 61.0 cm: R1
SHEAR WAVE ACOUSTIC LOG	Diameter : 9.2 cm	Length : 152.4 cm	Weight : 61.4 kg	Series : 1878PB	Mnemonic : XM4C	
MULTI-POLE ARRAY ACOUSTIC	Diameter : 9.8 cm	Length : 241.3 cm	Weight : 77.3 kg	Series : 1678BA	Mnemonic : XM4C	Measure Point : 195.8 cm: MONOPOLE T5 Measure Point : 185.8 cm: MONOPOLE T2 Measure Point : 142.2 cm: Y-DIPOLE T4 Measure Point : 142.2 cm: X-DIPOLE T3 Measure Point : 89.9 cm: MONOPOLE T1
QUICKLE JOINT (DOUBLE)	Diameter : 8.6 cm	Length : 141.8 cm	Weight : 40.9 kg	Series : 3939XA	Mnemonic : KJUT	
MTS FOCUS TELEMETRY TRANSFORMER SUB	Diameter : 9.2 cm	Length : 166.7 cm	Weight : 30.5 kg	Series : 3528EB	Mnemonic : ADAP	
MTS FOCUS POWER ADAPTOR	Diameter : 9.2 cm	Length : 110.2 cm	Weight : 70.8 kg	Series : 3528FB	Mnemonic : ADAP	
FOCUS TBN/TBMP/MUP RES/ACCEL	Diameter : 8.0 cm	Length : 131.4 cm	Weight : 27.7 kg	Series : 3980XA	Mnemonic : TTMA	
FOCUS COMPENSATED NEUTRON	Diameter : 8.0 cm	Length : 146.7 cm	Weight : 29.5 kg	Series : 2439XA	Mnemonic : CN	Measure Point : 58.4 cm: LSN MP Measure Point : 44.5 cm: SSN MP



MAIN LOG - SANDSTONE MATRIX

exPress 3.2 Last updated 03Oct2011 09:44 Oct 03, 2011
 Updates: 1

Perfht / main/61 Cplot 9.16 Pdf_Cpp / main/16 Fllview 4.97

PARAMETER AND FILTER SUMMARY REPORT

FILE: /export/data/ddc/215445/m80g07.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: -0.989 m BOTTOM DEPTH: 405.844 m

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
CHT	FILTER ()	medium (1)		TOP
SPEED	FILTER ()	medium (1)		"
TENSION	FILTER ()	medium (1)		"
GR	FILTER ()	medium (1)		"
DT24	FILTER ()	medium (2)		"
CALIPER	FILTER ()	medium (1)		BOTTOM

MEASUREMENT TYPE		PARAMETER	VALUE	UNITS	INTERVAL (m)
ACCELERATION PROCESSING					
GENERAL TCC PARAMETERS	GENERAL MONOPOLE TCC PARAMETERS	AGC	ON		TOP
		SUBCYCLE LENGTH	50		TOP
		SUBSET	1		TOP
		STACK LEVEL	2		TOP
		DSP FILTER	ON		TOP
	DELTA T TCC PARAMETERS	ACG WINDOW	1664	us	TOP
		MOVEOUT	16	us/ft	TOP
		SAMPLE PERIOD	16		TOP
		SAMPLE PERIOD	240	us	TOP
		ACG WINDOW	8064	us	TOP
FULL WAVE MONOPOLE TCC PARAMETERS	RX DELAY	SAMPLE PERIOD	24	us	TOP
		ACG WINDOW	8064	us	TOP
		SAMPLE PERIOD	240	us	TOP
		ACG WINDOW	8064	us	TOP
		SAMPLE PERIOD	24	us	TOP
	RX DELAY	SAMPLE PERIOD	24	us	TOP
		ACG WINDOW	8064	us	TOP
		SAMPLE PERIOD	240	us	TOP
		ACG WINDOW	8064	us	TOP
		SAMPLE PERIOD	24	us	TOP
CORRECTION OFF					

MEASUREMENT TYPE		PARAMETER	VALUE	UNITS	INTERVAL (m)
ACOUSTIC TCC CONTROL PARAMETERS					
WAVEFORM FILTER - FULLWAVE	SURFACE WAVE FILTER	LOW FREQ CUTOFF	ON	Hz	TOP
		HIGH FREQ CUTOFF	2000	Hz	TOP
			20000	Hz	BOTTOM
MEASUREMENT TYPE		PARAMETER	VALUE	UNITS	INTERVAL (m)
ACOUSTIC WAVEFORM FILTER					
MONOPOLE COMPRESSIONAL	FLOOR (UNIV. OPTION)	100	us/m		TOP
		550	us/m		TOP
		600	us/m		TOP
		550	us/m		TOP
		0.050	us/m		TOP
	FLOOR (UNIV. OPTION)	100	us/m		TOP
		550	us/m		TOP
		600	us/m		TOP
		550	us/m		TOP
		0.050	us/m		TOP
MONOPOLE DELTA T	FORMATION TYPE	GENERIC (MEDIUM)			TOP
		NTH ROOT			TOP
		RESET TAPERS			TOP
		TAPER - LEFT END	100	us/m	TOP
		TAPER - RIGHT END	550	us/m	TOP
	CORRELATION METHOD	GENERIC (MEDIUM)			TOP
		NTH ROOT			TOP
		RESET TAPERS			TOP
		TAPER - LEFT END	100	us/m	TOP
		TAPER - RIGHT END	550	us/m	TOP
ACCELERATION OFF					

MEASUREMENT TYPE		PARAMETER	VALUE	UNITS	INTERVAL (m)
ACOUSTIC AVAN CORRELATION					
DELTA T CURVE SELECTION	DT24 SOURCE	AVAN DT24			TOP
CORRECTION OFF					

MEASUREMENT TYPE		PARAMETER	VALUE	UNITS	INTERVAL (m)	
ACOUSTIC POROSITY						
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	244.500	mm		TOP	
		0.000	mm		TOP	
		Average			TOP	
		BIT SIZE	311.000	mm	TOP	
		RMUD SOURCE (HDL)	311.000	mm	TOP	
	BH MUD RESISTIVITY SOURCE	TOOL MEASURED			TOP	
		CALIPER/FIXED DIA. (cnbh*)			TOP	
		USE CALIPER			TOP	
		USE CALIPER			TOP	
		CALIPER/FIXED DIA. (mbh*)			TOP	
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh*)	311.000	mm	TOP		
	FIXED DIAMETER (mbh*)	311.000	mm	TOP		
	X-Y COMBINED CALIPER PROCESSING-FOCMY Caliper - FOCUS	Average		TOP		
	CORRECTION OFF					

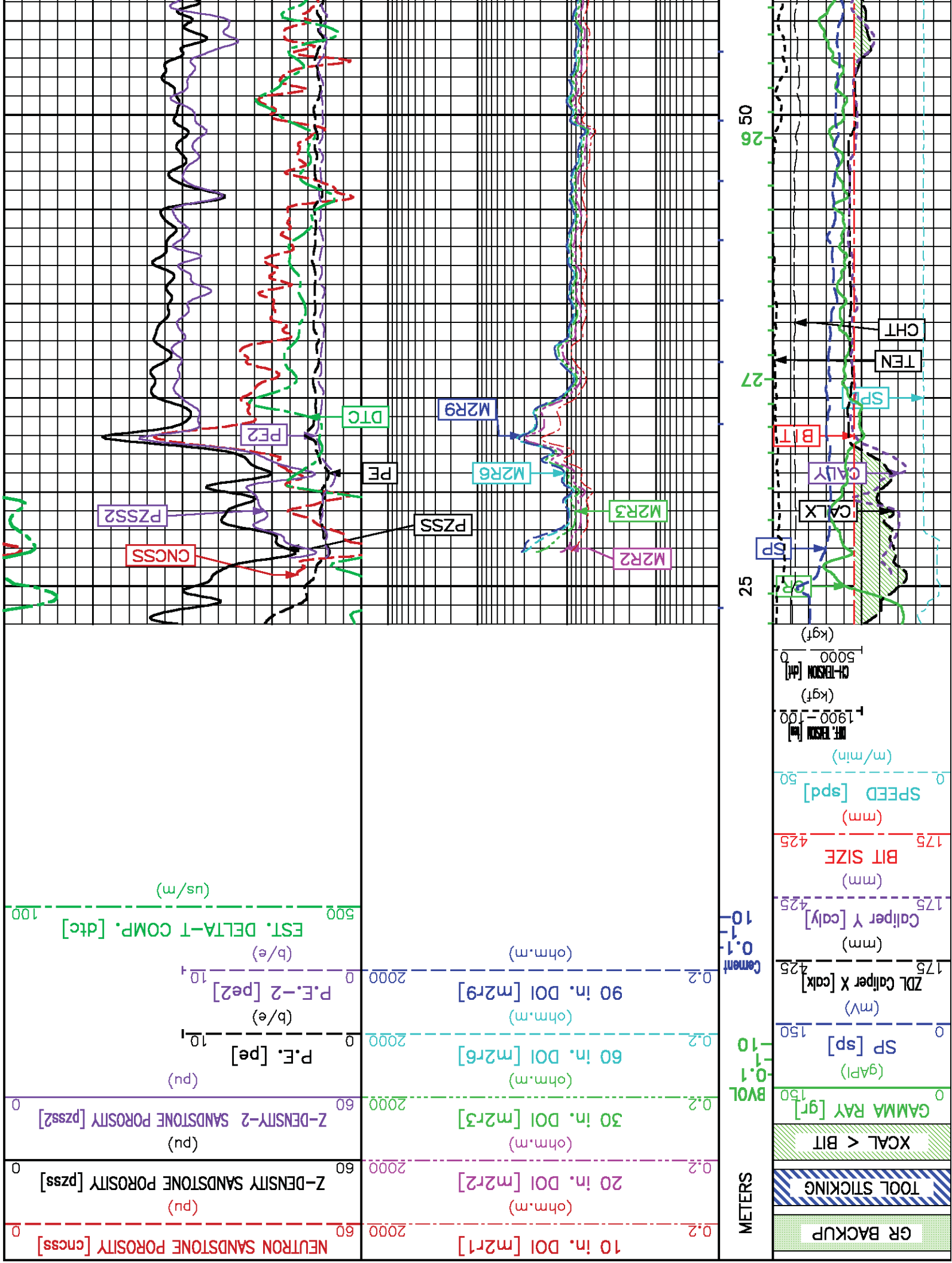
MEASUREMENT TYPE		PARAMETER	VALUE	UNITS	INTERVAL (m)
BOREHOLE & CEMENT					
SP-SPDH	ZDL MED RES	FILTER (hrd1*)	medium	(1)	TOP
		FILTER (hrd12*)	medium		TOP
		FILTER (hrd13*)	medium		TOP
		FILTER (hrd1s2*)	medium		TOP
		FILTER (hrd2*)	medium		TOP
	ZDL MED RES	FILTER (hrd22*)	medium		TOP
		FILTER (hrd2s*)	medium		TOP
		FILTER (hrd2s2*)	medium		TOP
		FILTER (hrd2s2*)	medium		TOP
		FILTER (hrd2s2*)	medium		TOP

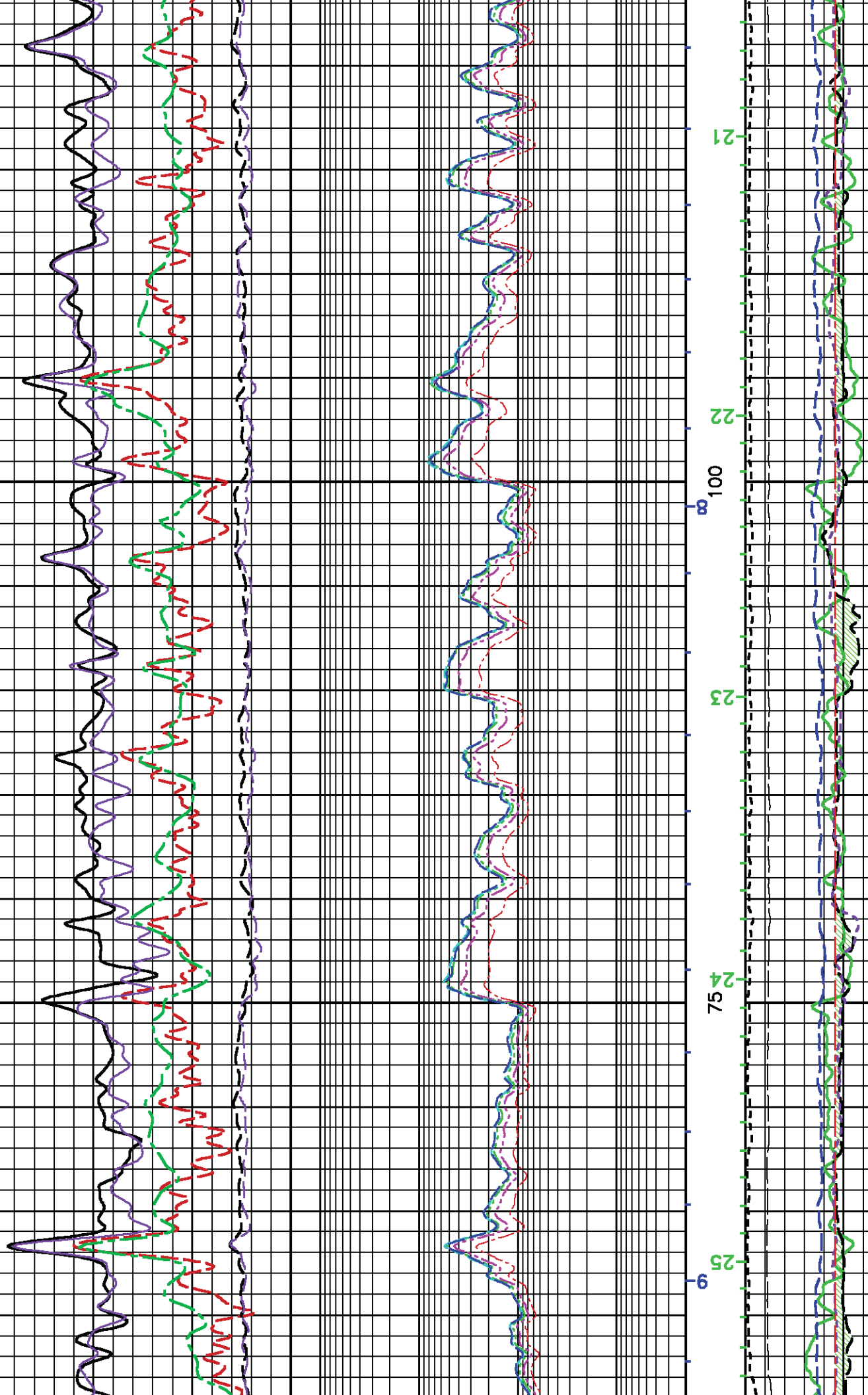
Project	/data/ddc/215445
User	huyan
Presentation	: calsunsrv3:/data/ddc/215445/comp_main_ss.pdf [1:240 Scale]
Pilot Interval	: 23 - 406.146 Meters
Data File 1	: F1 : calsunsrv3:/export/data/ddc/215445/siam_main.xtf
Created On	: Jan 29 21:27:27 2013
Company	: MGM ENERGY CORP
Well	: MGM SHELL EAST MACKAY I-78
Field	: EAST MACKAY
File Interval	: -37.2618 - 406.184 Meters
Oct	: m980g

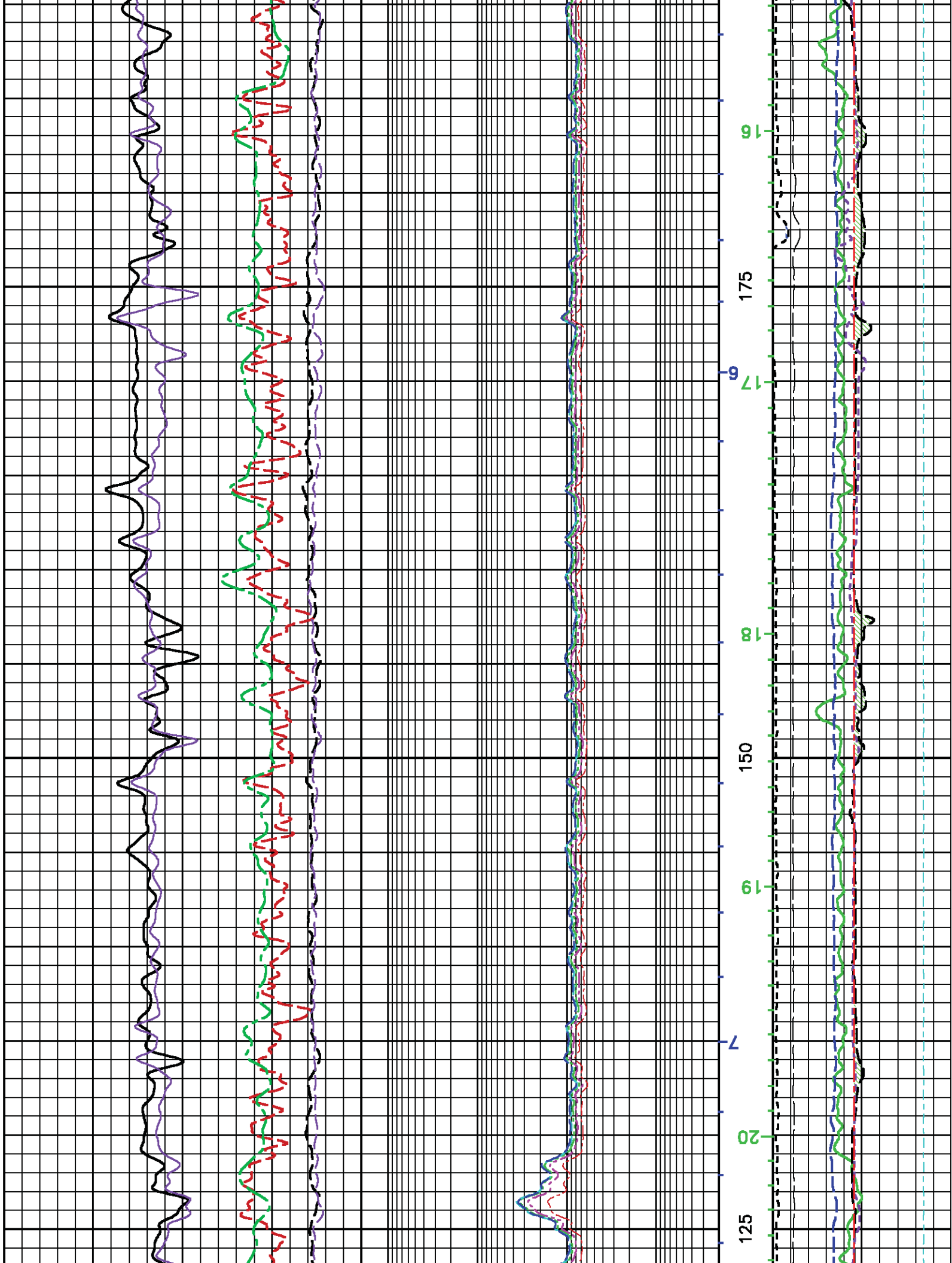
CURVE MEASURE POINT OFFSET		CURVE		CURVE		CURVE		CURVE	
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	DTC	25.37	M2R6	0.84	PZSS2	0.84	CALX	9.64
CALY	5.49	M2R1	0.84	PE	9.64	SPD	0.00	CALY	5.49
CHT	0.00	M2R2	0.84	PE2	5.49	TEN	0.00	CHT	0.00
CNCSS	12.50	M2R3	0.84	PZSS	9.64			CNCSS	

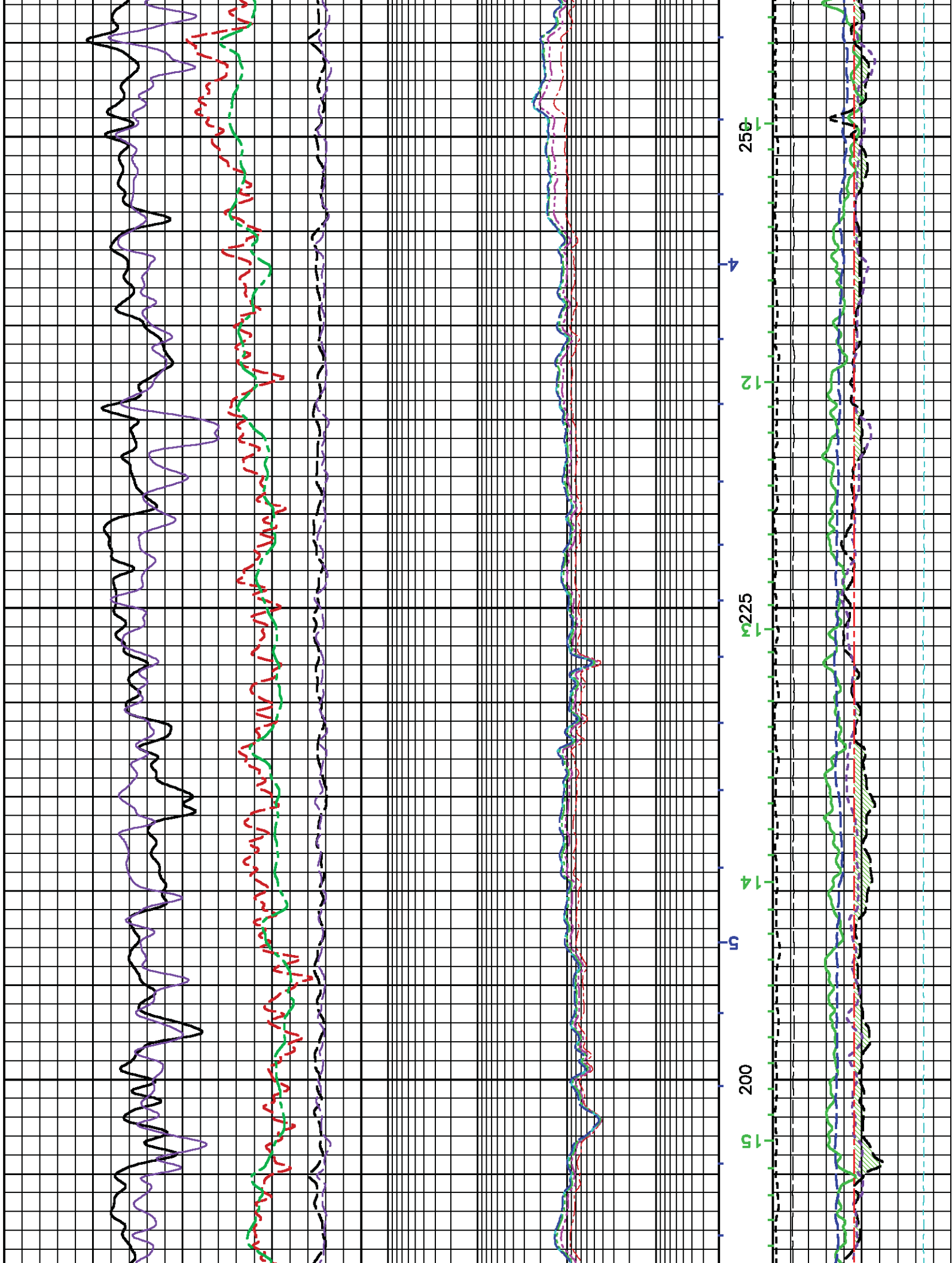
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Jan 29 21:27:27 2013	BIT SIZE
F1:BVOL	BVOL	Jan 29 21:27:27 2013	BOREHOLE VOLUME
F1:CALX	CALX	Jan 29 21:27:27 2013	CALIPER FROM X AXIS OF X-Y CALIPER(S)
F1:CALY	CALY	Jan 29 21:27:27 2013	CALIPER FROM Y AXIS OF X-Y CALIPER(S)
F1:CHT	CHT	Jan 29 21:27:27 2013	CABLE HEAD TENSION
F1:CNCS	CNCS	Jan 29 21:27:27 2013	BH SIZE CORR. SANDSTONE COMPENSATED NEUTRON POROSITY
F1:CVOL	CVOL	Jan 29 21:27:27 2013	CEMENT VOLUME
F1:DTC	DTC	Jan 31 13:34:48 2013	COMPRESSIONAL WAVE SLOWNESS
F1:GR	GR	Jan 29 21:27:27 2013	GAMMA RAY
F1:MZR1	MZR1	Jan 29 21:27:27 2013	VERT RESOLUTION MATCHED (2 FT) RES - DOI 10 INCH
F1:MZR2	MZR2	Jan 29 21:27:27 2013	VERT RESOLUTION MATCHED (2 FT) RES - DOI 20 INCH
F1:MZR3	MZR3	Jan 29 21:27:27 2013	VERT RESOLUTION MATCHED (2 FT) RES - DOI 30 INCH
F1:MZR6	MZR6	Jan 29 21:27:27 2013	VERT RESOLUTION MATCHED (2 FT) RES - DOI 60 INCH
F1:MZR9	MZR9	Jan 29 21:27:27 2013	VERT RESOLUTION MATCHED (2 FT) RES - DOI 90 INCH
F1:PE	PE	Jan 29 21:27:27 2013	PHOTO ELECTRIC CROSS-SECTION
F1:PE2	PE2	Jan 29 21:27:27 2013	SECOND TOOL PHOTO ELECTRIC CROSS-SECTION
F1:PZSS	PZSS	Jan 29 21:27:27 2013	POROSITY FOR SANDSTONE MATRIX
F1:PZSS2	PZSS2	Jan 29 21:27:27 2013	2ND TOOL POROSITY FOR SANDSTONE MATRIX
F1:SP	SP	Jan 29 21:27:27 2013	SPONTANEOUS POTENTIAL
F1:SPD	SPD	Jan 29 21:27:27 2013	SPEED
F1:TEN	TEN	Jan 29 21:27:27 2013	DIFFERENTIAL TENSION

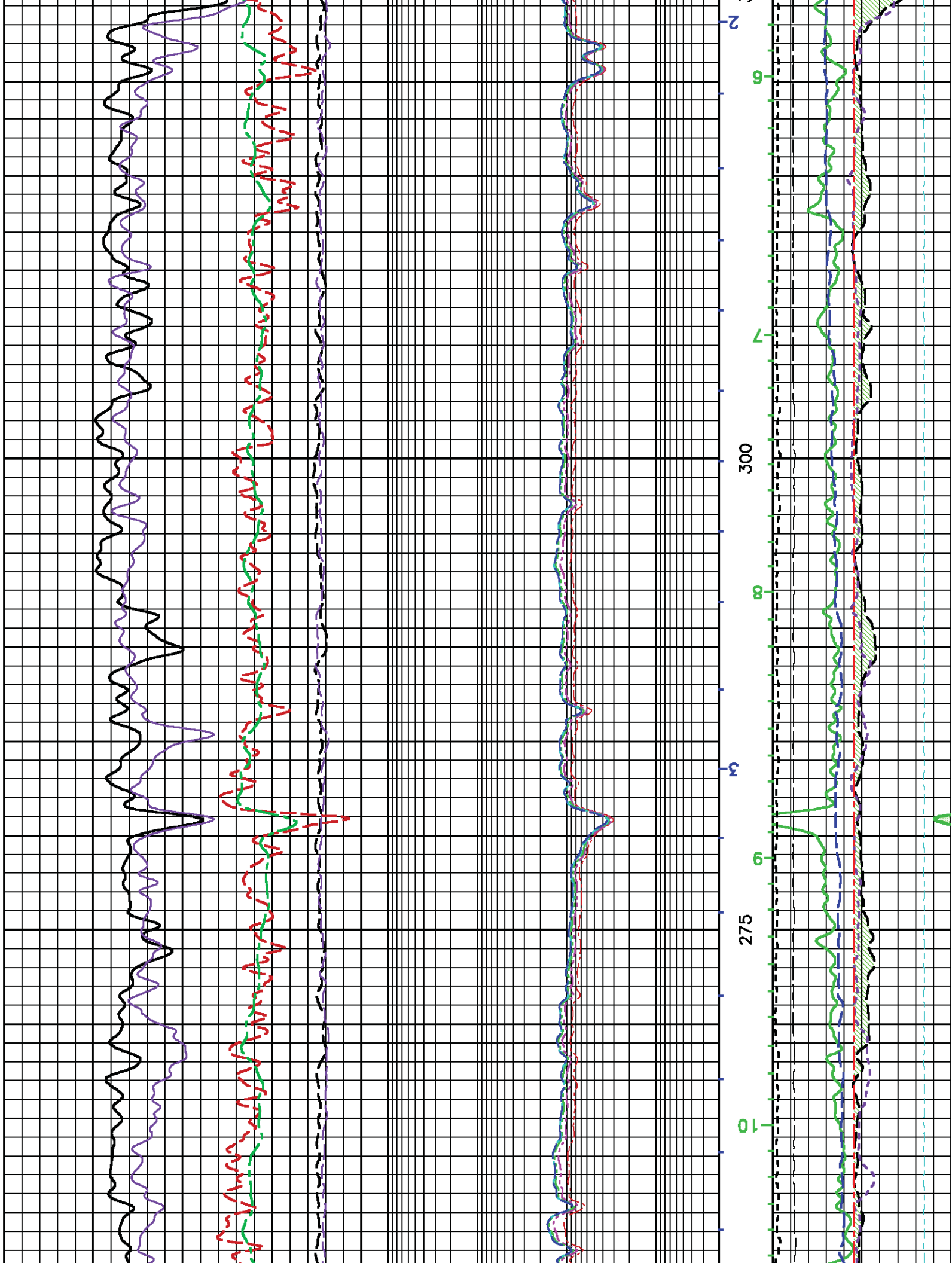
CN PROCESSING				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
CN BOREHOLE CORRECTION	SALINITY	0	ppm	TOP BOTTOM
CN CASING & CEMENT CORRECTION	BOREHOLE CORRECTION	ON		TOP BOTTOM
	CORRECTION	OFF		TOP BOTTOM
	BIT SIZE BEHIND CSNG	500.000	mm	TOP BOTTOM
ZDL PROCESSING				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
DENSITY POROSITY	Air Filled Borehole	NO		TOP BOTTOM
	RHOfluid	1.000	g/cm3	TOP BOTTOM
	RHOmatrix (sand)	2.650	g/cm3	TOP BOTTOM
HDIL PROCESSING				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
HDIL TEMPERATURE CORRECTION	TEMP CORRECTION	ON		TOP BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		TOP BOTTOM
	ABC to CALCULATE	STANDOFF		TOP BOTTOM
	STANDOFF	38.10	mm	TOP BOTTOM
	TOOL POSITION	ECCENTERED		TOP BOTTOM
	Rmud MULTIPLIER	1.000		TOP BOTTOM

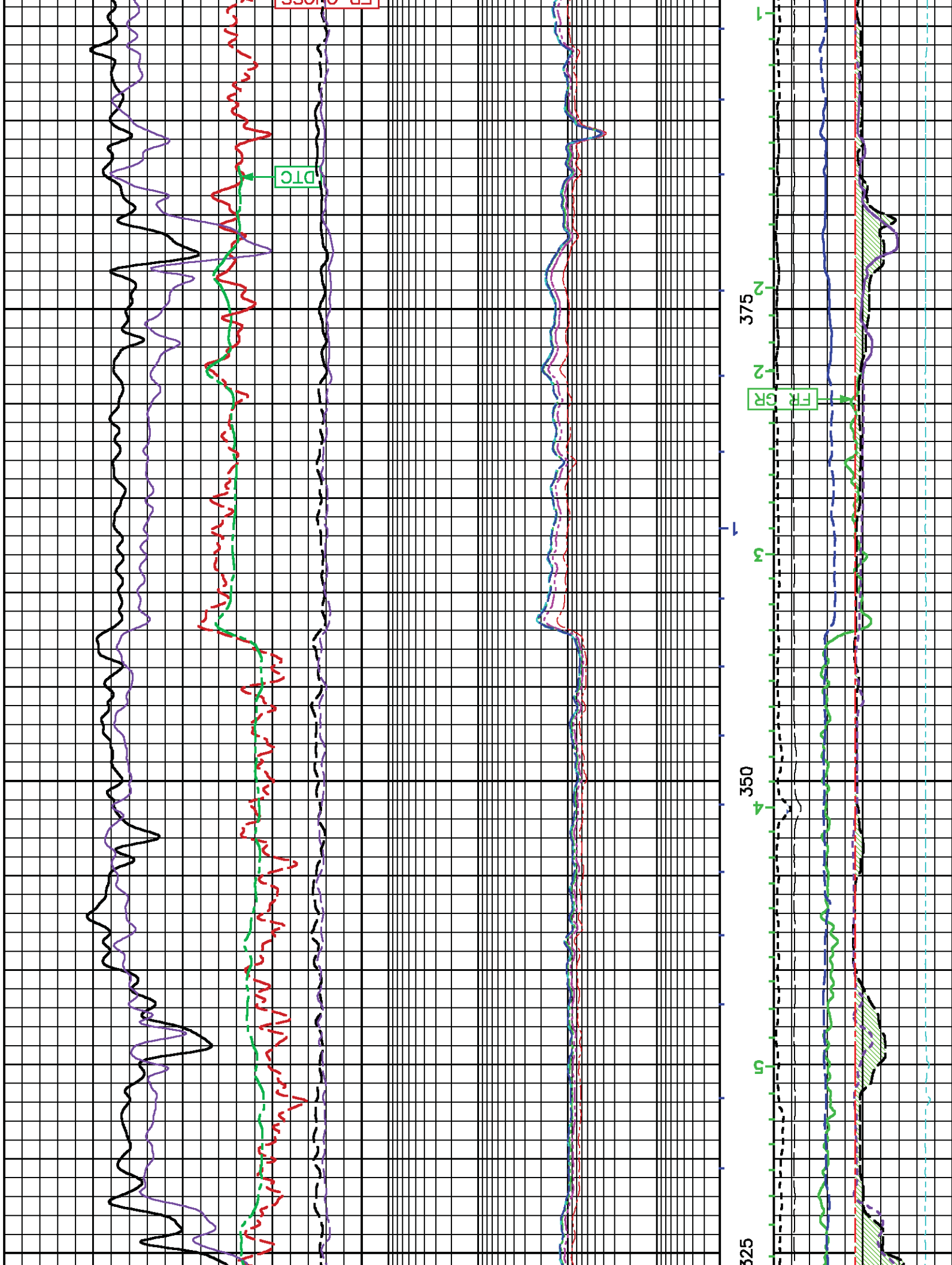




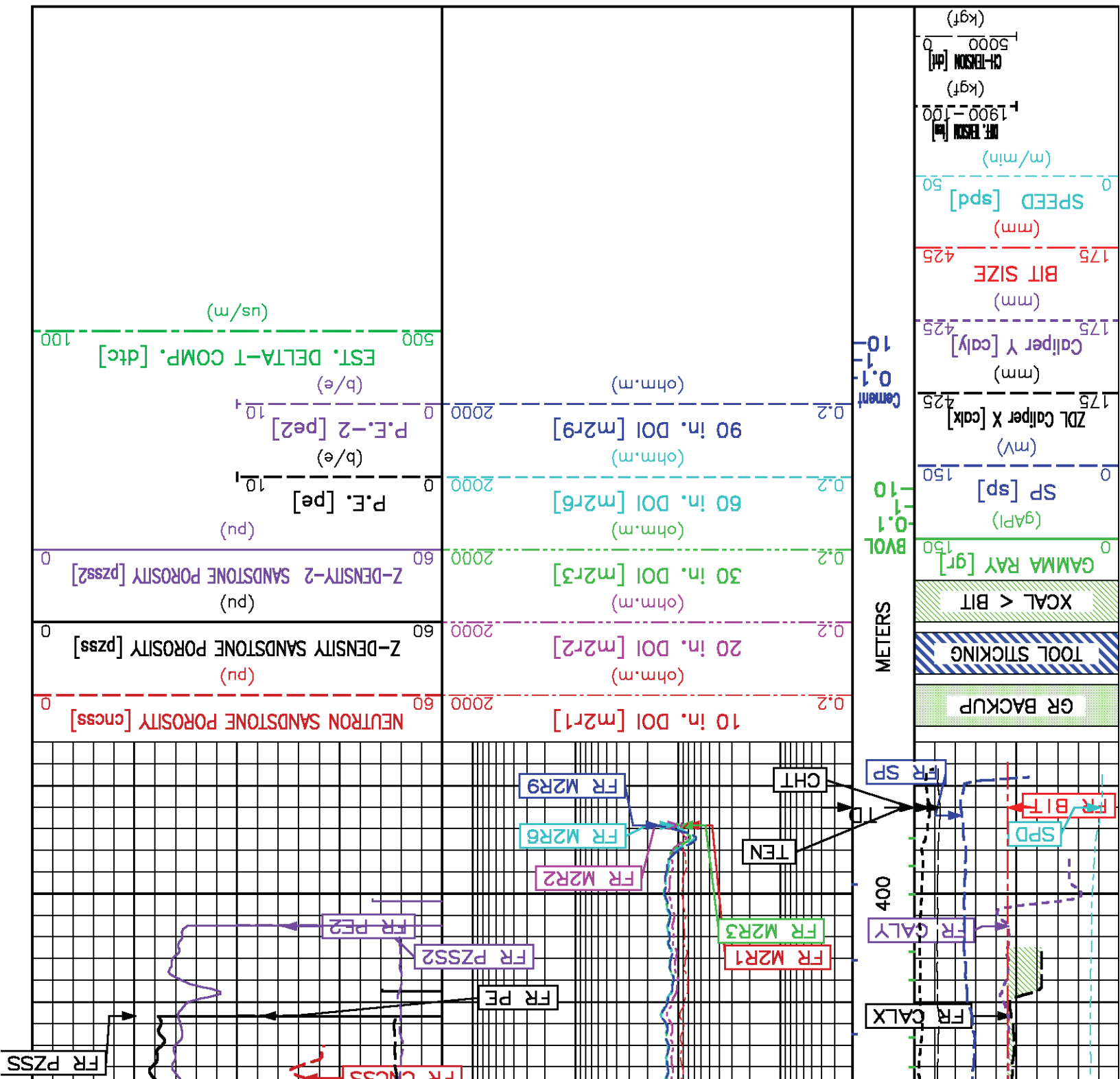




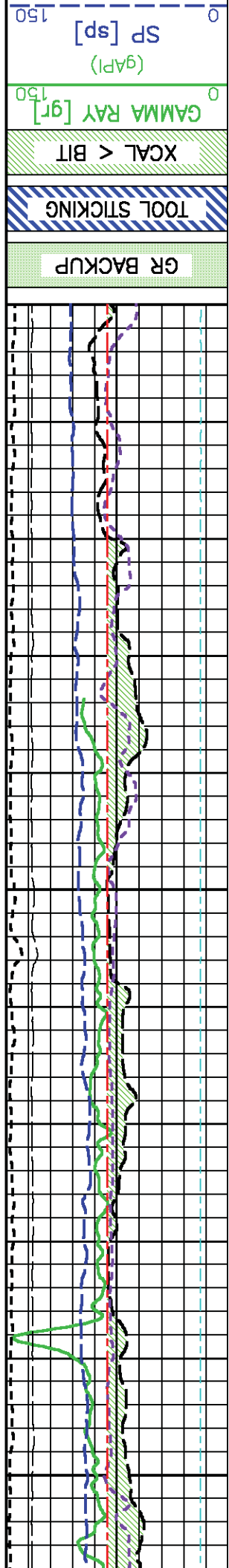




REPEAT LOG - SANDSTONE MATRIX



BIT	CALX	9.64	5.49	0.00	CNCSS
CHT	CALY	5.49	0.00	0.00	CHT
M2R2	M2R1	0.84	0.84	0.84	M2R2
M2R3	GR	33.76	0.84	0.84	M2R3
DTCC1	M2R6	25.50	0.84	0.84	PZSS
PE2	M2R9	0.84	5.49	9.64	PE2
SPD	SP	0.84	9.64	5.49	SPD
TEN	PZSS2	0.84	9.64	5.49	TEN
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
CURVE MEASURE POINT OFFSET					
F1:BIT	BIT	Jan 29 20:52:41 2013	BIT SIZE	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 10 INCH
F1:M2R1	M2R1	Jan 29 20:52:41 2013	GAMMA RAY	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 10 INCH
F1:M2R2	M2R2	Jan 29 20:52:41 2013	VERT RESOLUTION MATCHED (2 FT)	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 20 INCH
F1:M2R3	M2R3	Jan 29 20:52:41 2013	VERT RESOLUTION MATCHED (2 FT)	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 30 INCH
F1:M2R6	M2R6	Jan 29 20:52:41 2013	VERT RESOLUTION MATCHED (2 FT)	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 60 INCH
F1:M2R9	M2R9	Jan 29 20:52:41 2013	VERT RESOLUTION MATCHED (2 FT)	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 90 INCH
F1:PE	PE	Jan 29 20:52:41 2013	PHOTO ELECTRIC CROSS-SECTION		
F1:PE2	PE2	Jan 29 20:52:41 2013	SECOND TOOL PHOTO ELECTRIC CROSS-SECTION		
F1:PZSS	PZSS	Jan 29 20:52:41 2013	POROSITY FOR SANDSTONE MATRIX		
F1:PZSS2	PZSS2	Jan 29 20:52:41 2013	2ND TOOL POROSITY FOR SANDSTONE MATRIX		
F1:SP	SP	Jan 29 20:52:41 2013	SPONTANEOUS POTENTIAL		
F1:SPD	SPD	Jan 29 20:52:41 2013	SPEED		
F1:TEN	TEN	Jan 29 20:52:41 2013	DIFFERENTIAL TENSION		
CURVE NAME CURVE ALIAS CREATION DATE CURVE DESCRIPTION					
CURVE DESCRIPTION REPORT					
MEASUREMENT TYPE					
HDL PROCESSING					
ADAPTIVE BOREHOLE CORRECTION	TEMP CORRECTION	ON	ON	TOP	BOTTOM
ABC PROCESSING	ABC TO CALCULATE	ON	STANDOFF	TOP	BOTTOM
STANDOFF	STANDOFF	38.10	ECCENTERED	TOP	BOTTOM
TOOL POSITION	Rmud MULTIPLIER	1.000		TOP	BOTTOM
DENSITY POROSITY	Air Filled Borehole	NO	1.000	TOP	BOTTOM
	RHOfluid		2.650	TOP	BOTTOM
	RHOmatrix (sand)			TOP	BOTTOM
MEASUREMENT TYPE					
ZDL PROCESSING					
CN BOREHOLE CORRECTION	SALINITY	0	ppm	TOP	BOTTOM
CN CASING & CEMENT CORRECTION	BOREHOLE CORRECTION	ON	OFF	TOP	BOTTOM
	BIT SIZE BEHIND CSNG	500.000	mm	TOP	BOTTOM
MEASUREMENT TYPE					
CN PROCESSING					
ACCEL CORR SWITCH	ACCEL DEPTH CORR	CORRECTION OFF	CORRECTION ON	TOP	BOTTOM
ACCEL CORR SWITCH	ACCEL DEPTH CORR	CORRECTION OFF	CORRECTION ON	TOP	BOTTOM
MEASUREMENT TYPE					
ACCELERATION PROCESSING					
GENERAL MONOPOLE TCC PARAMETERS	STACK LEVEL	2	ON	TOP	BOTTOM
DELTA T TCC PARAMETERS	ACG WINDOW	1664	us	TOP	BOTTOM
	MOVEOUT	16	us/ft	TOP	BOTTOM
	SAMPLE PERIOD	16		TOP	BOTTOM
	RX DELAY	240	us	TOP	BOTTOM
FULL WAVE MONOPOLE TCC PARAMETERS	ACG WINDOW	8064	us	TOP	BOTTOM
	SAMPLE PERIOD	24		TOP	BOTTOM
	RX DELAY	0	us	TOP	BOTTOM

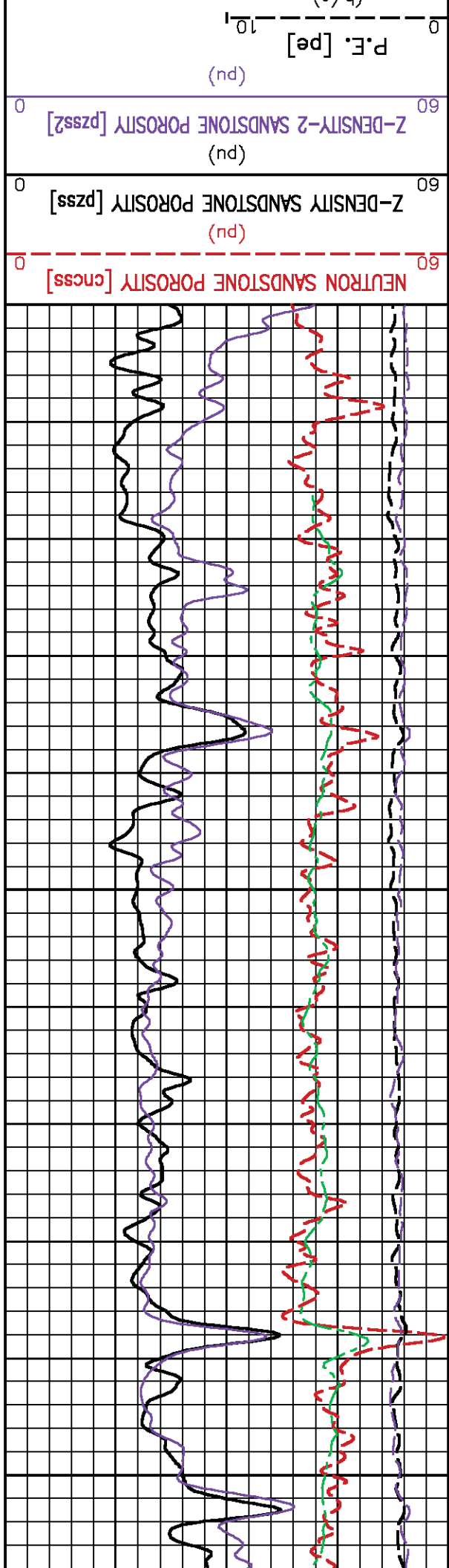
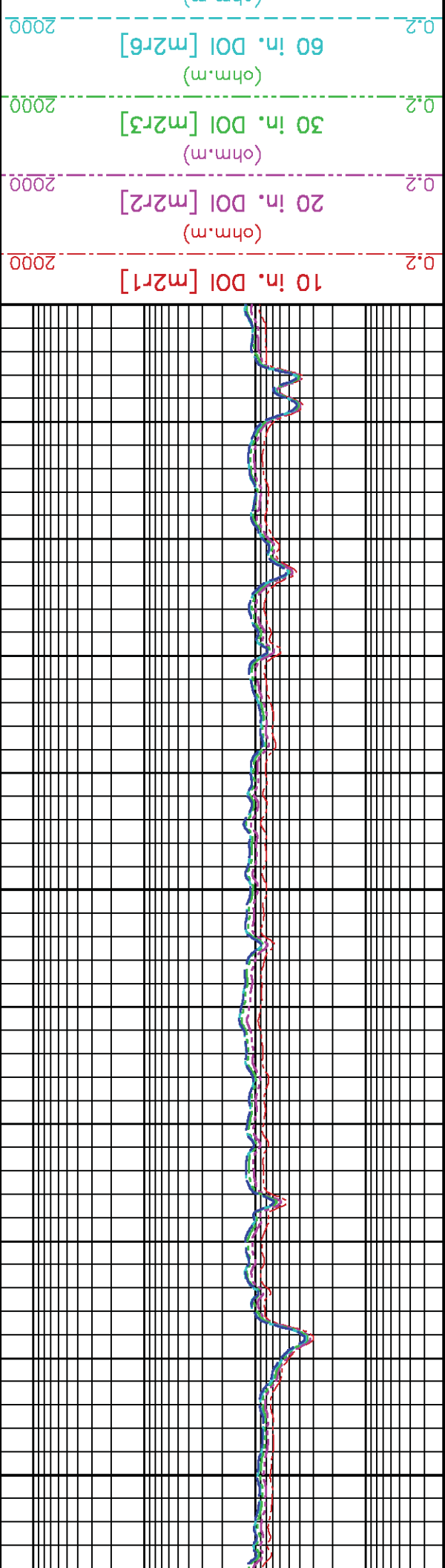


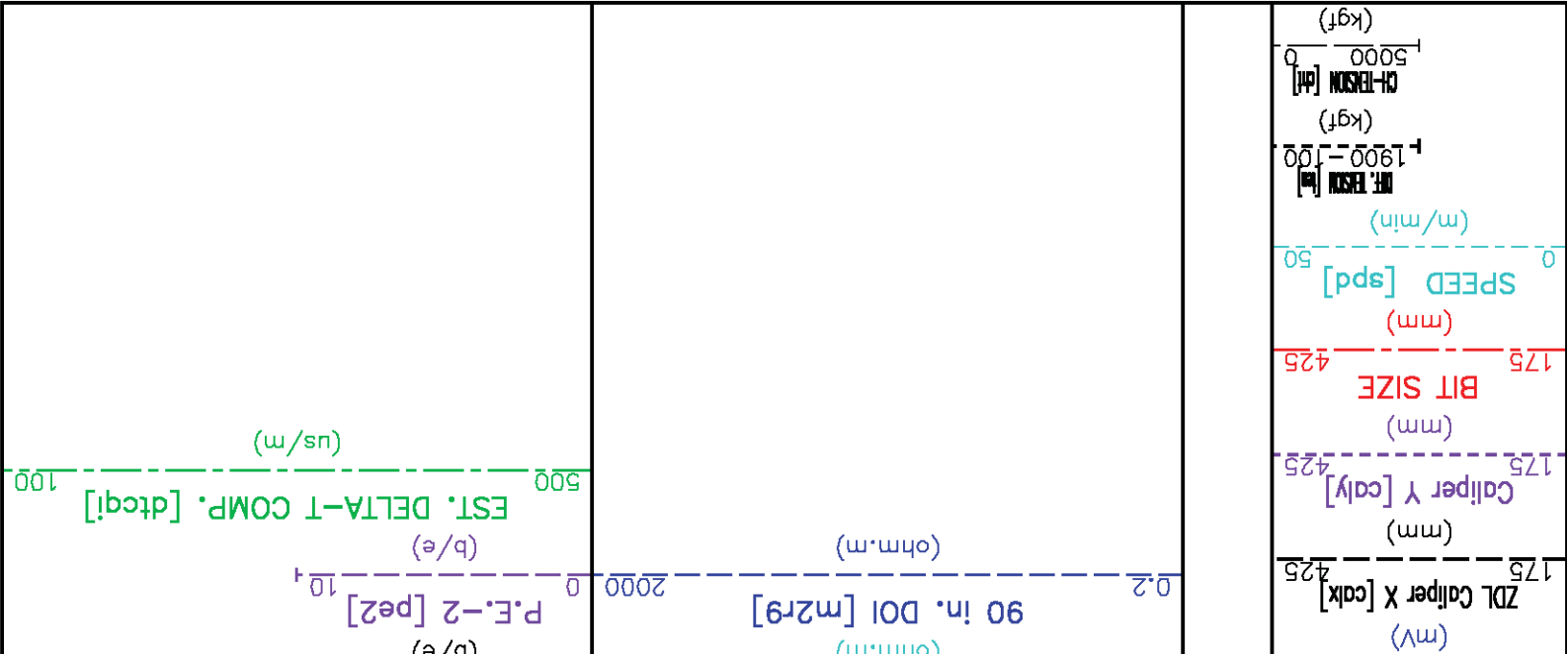
METERS

325

300

275





TEMPERATURE DOWN LOG

Express 3.2 Last updated 030ct2011 09:44 Oct 03, 2011
Updates: 1
Thu Jan 31 15:49:56 2013

Perpht / main/61 Cplot 9.16 Pdf_Cpp / main/16 Fileview 4.97

CURVE DESCRIPTION REPORT

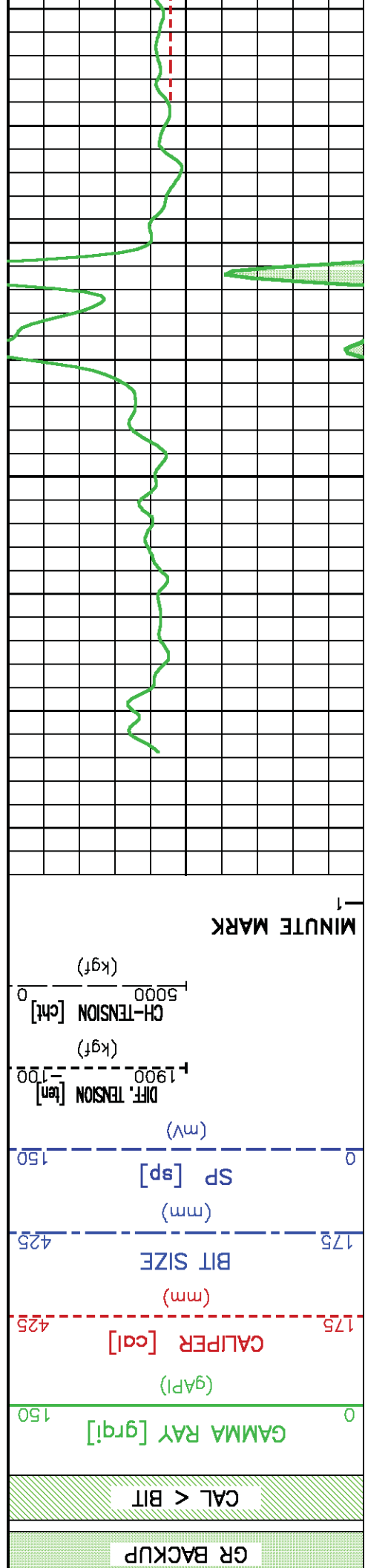
CURVE NAME CURVE ALIAS CREATION DATE CURVE DESCRIPTION

F1:BIT	BIT	Jan 29 19:14:49 2013	BIT SIZE
F1:CAL	CAL	Jan 29 19:14:49 2013	CALIPER
F1:CHT	CHT	Jan 29 19:14:49 2013	CABLE HEAD TENSION
F1:GRQI	GR	Jan 29 19:14:49 2013	GAMMA RAY
F1:MMRK	MMRK	Jan 29 19:14:49 2013	MINUTE MARK
F1:SP	SP	Jan 29 19:14:49 2013	SPONTANEOUS POTENTIAL
F1:TEN	TEN	Jan 29 19:14:49 2013	DIFFERENTIAL TENSION
F1:WTBH	WTBH	Jan 29 19:14:49 2013	TEMPERATURE OF THE BOREHOLE

CURVE MEASURE POINT OFFSET

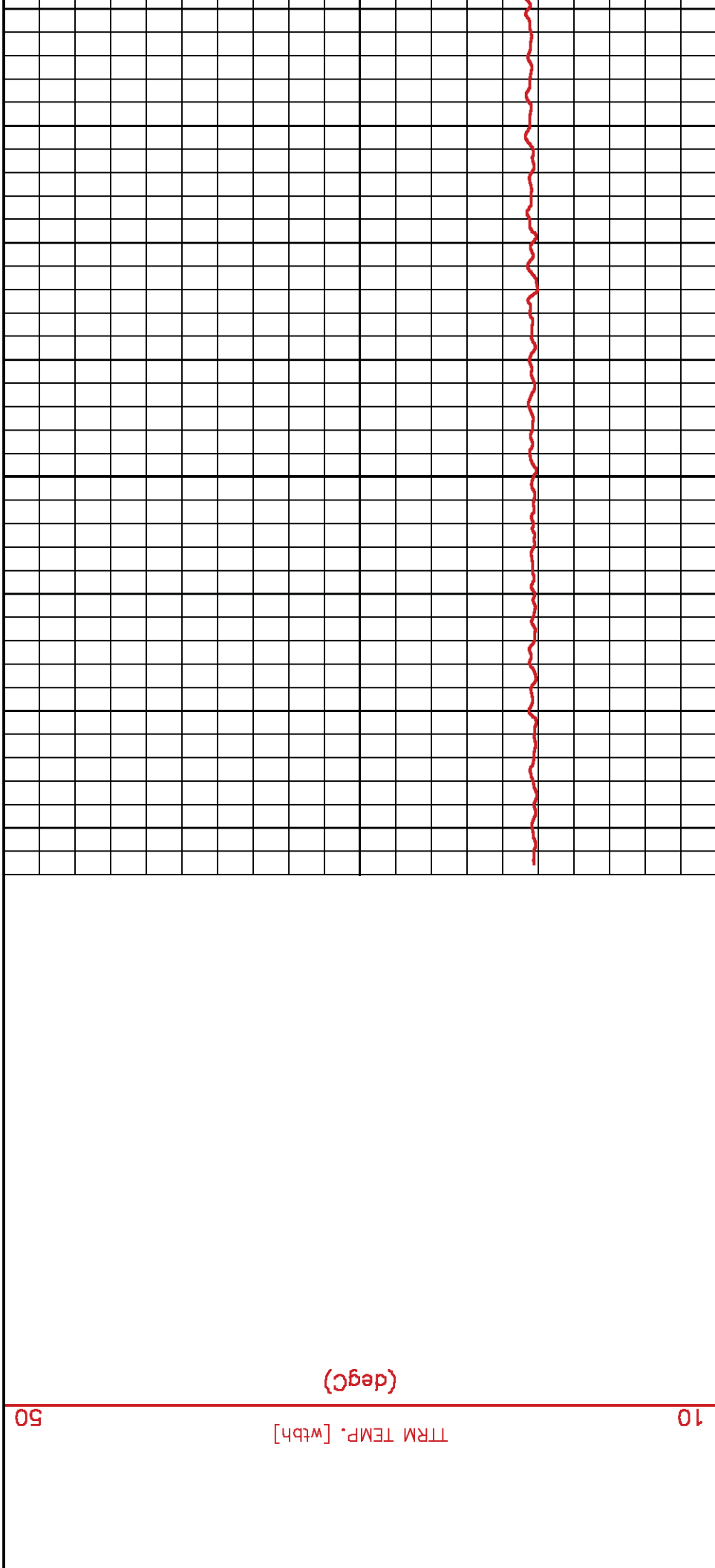
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
BIT	0.00	CHT	0.00	SP	0.38	WTBH	37.87
CAL	5.52	GRQI	33.68	TEN	0.00		

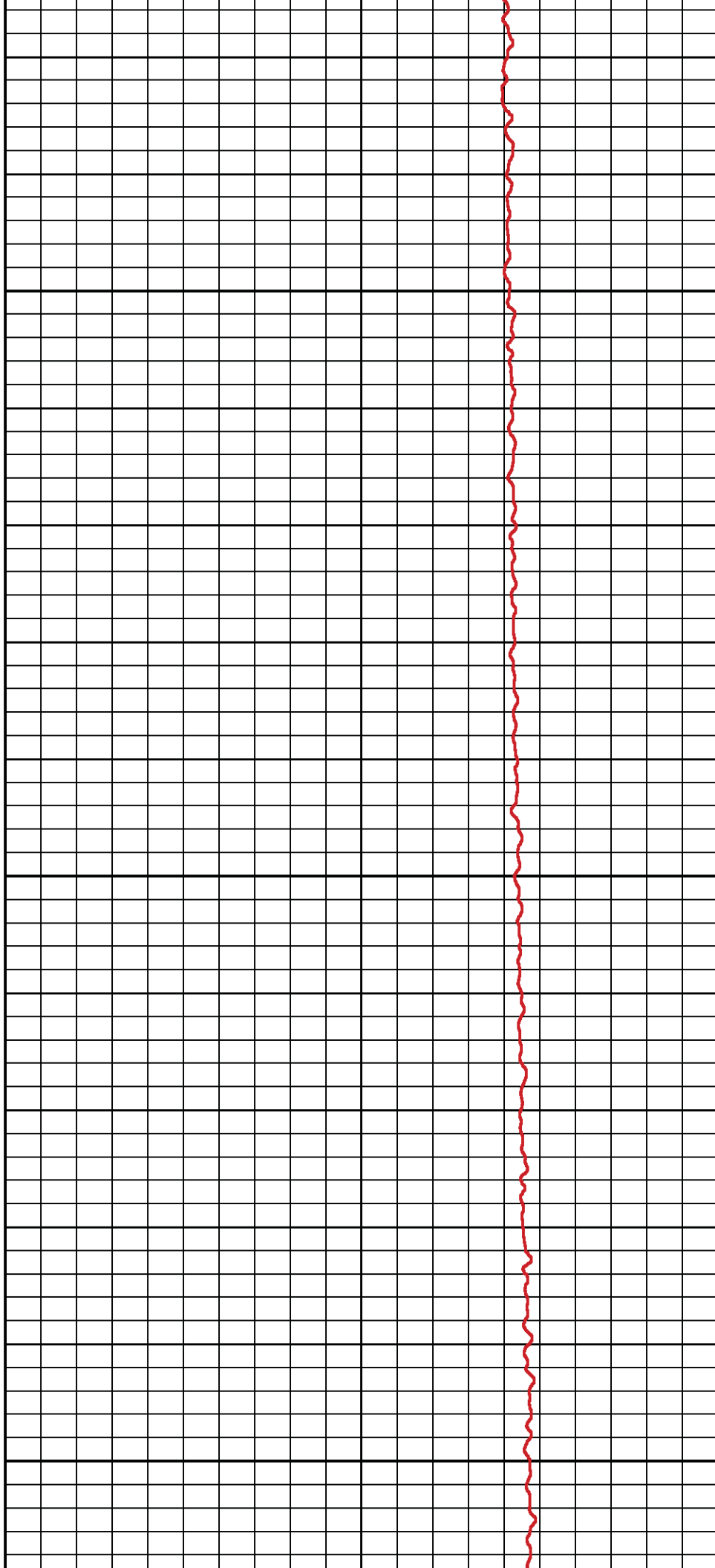
Project : /data/ddc/215445
User : huyen
Presentation : calsunrv3:/data/ddc/215445/downlog.pdf [1:240 Scale]
Plot Interval : 33.3756 - 406.908 Meters
Data File 1 : f1 : calsunrv3:/export/data/ddc/215445/downlog.xht
Created On : Jan 29 19:14:49 2013
Company : MGM ENERGY CORP
Well : MGM SHELL EAST MACKAY I-78
Field : EAST MACKAY
File Interval : 32.6136 - 408.127 Meters
Oct : m980g



50

METERS

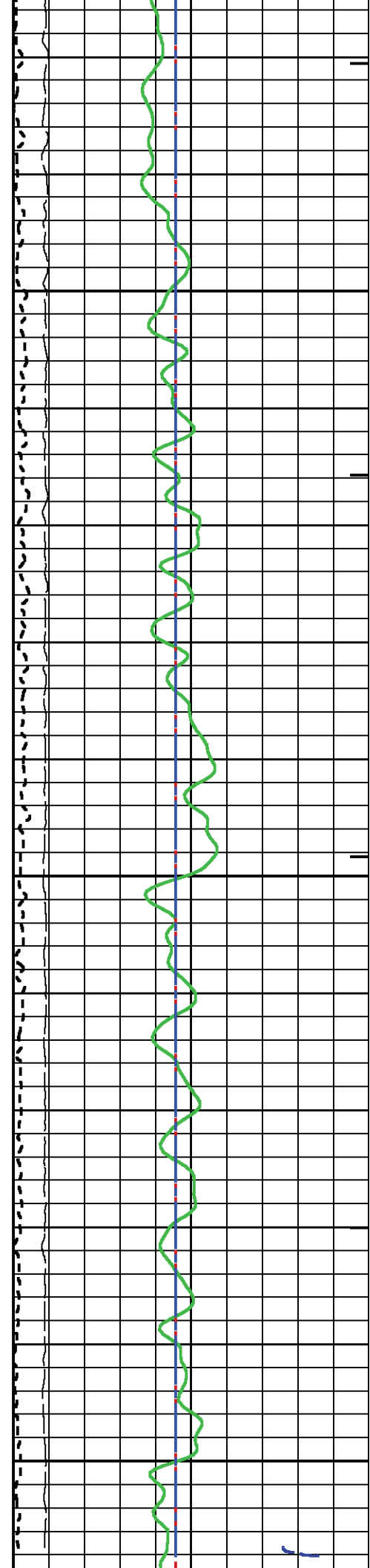


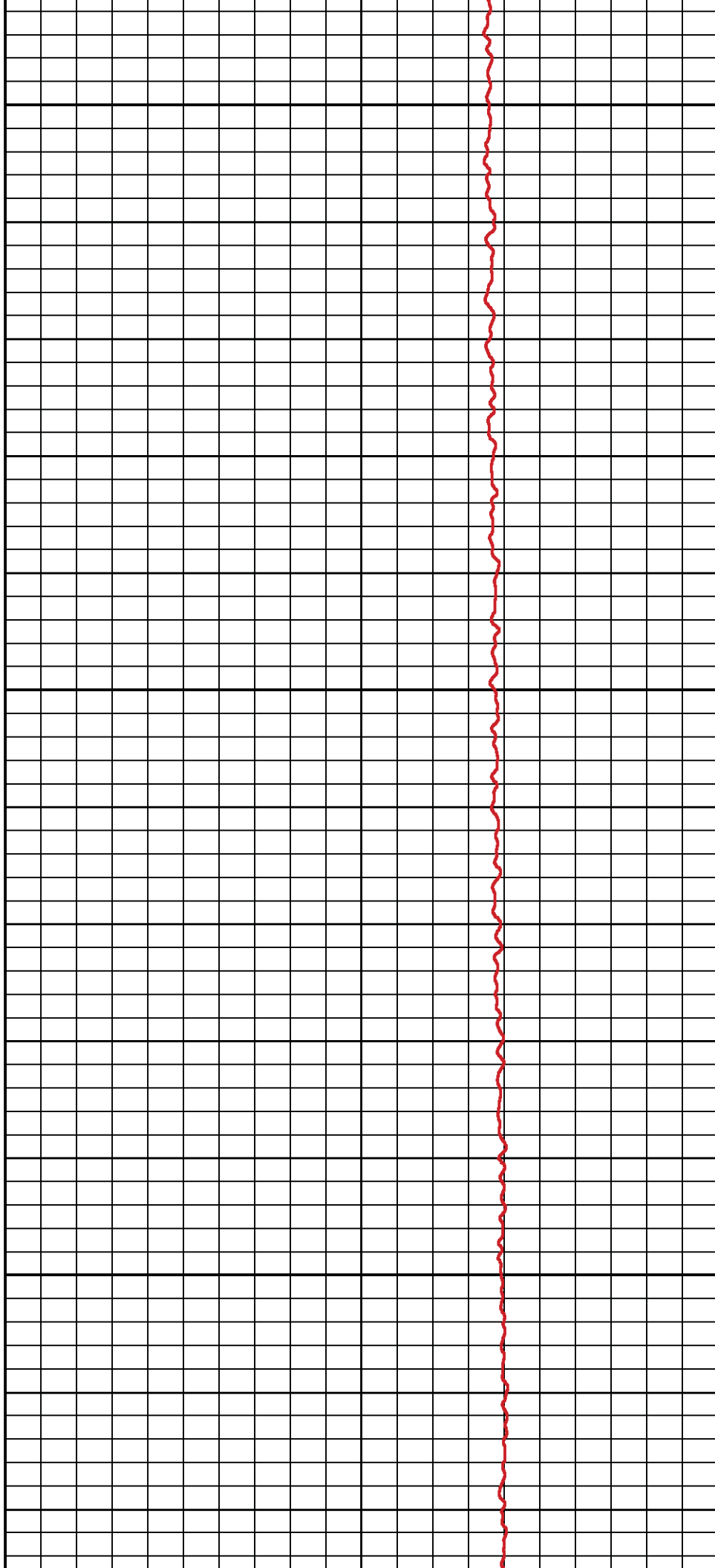


75

100

125

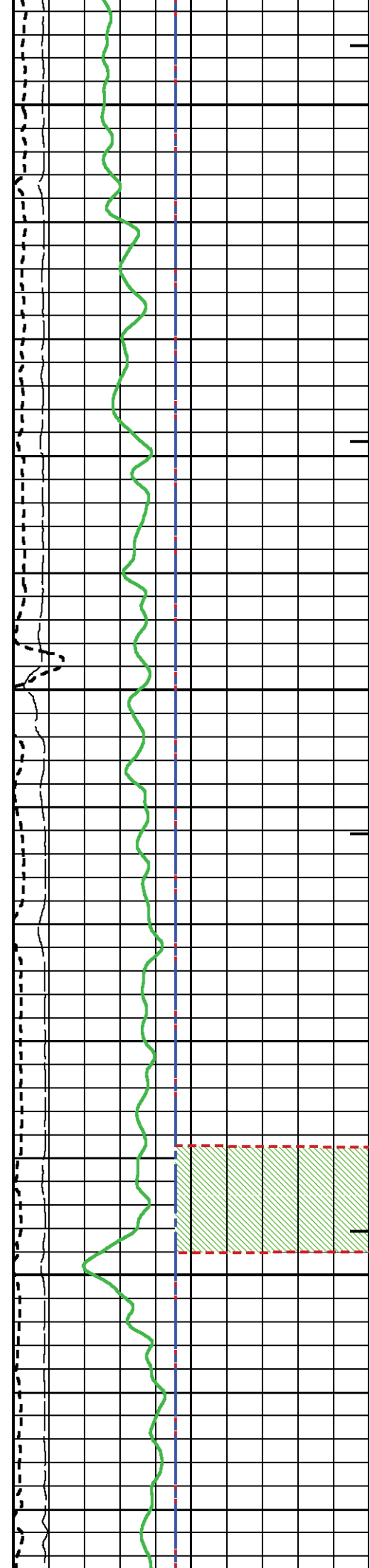


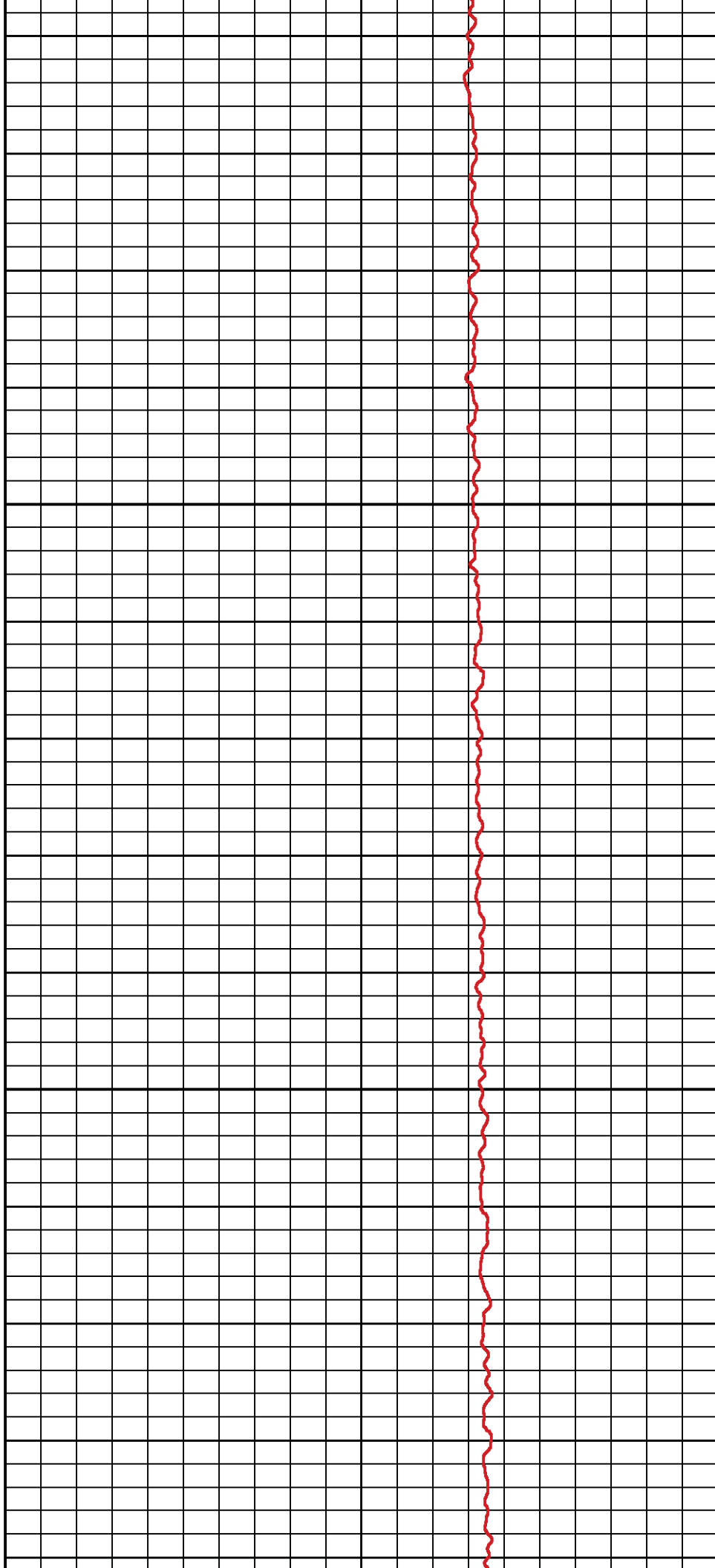


150

175

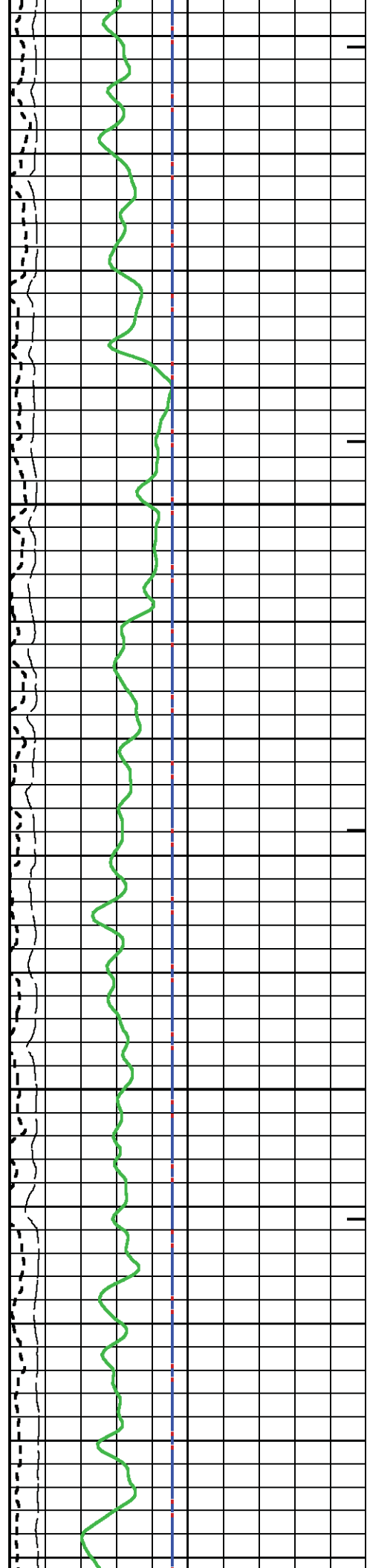
200

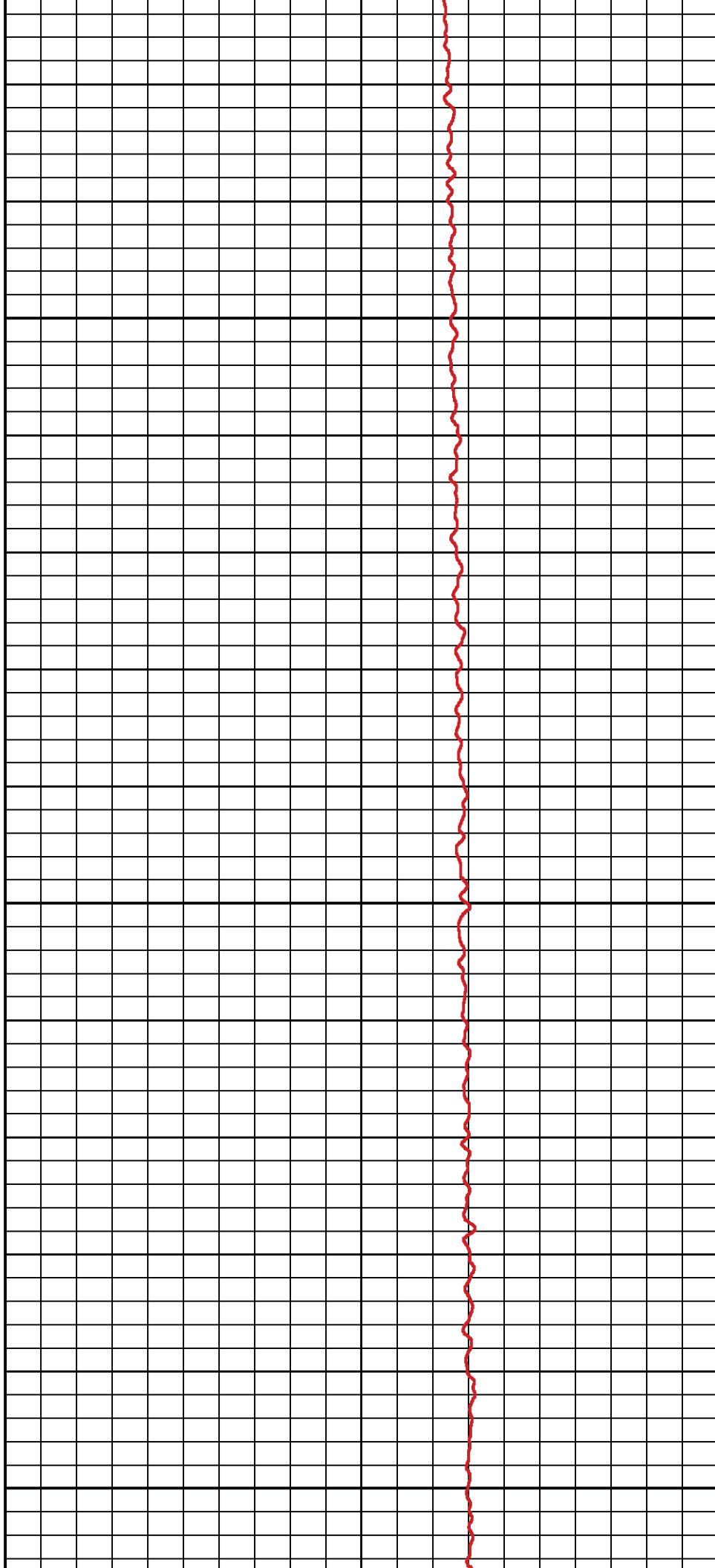




225

250

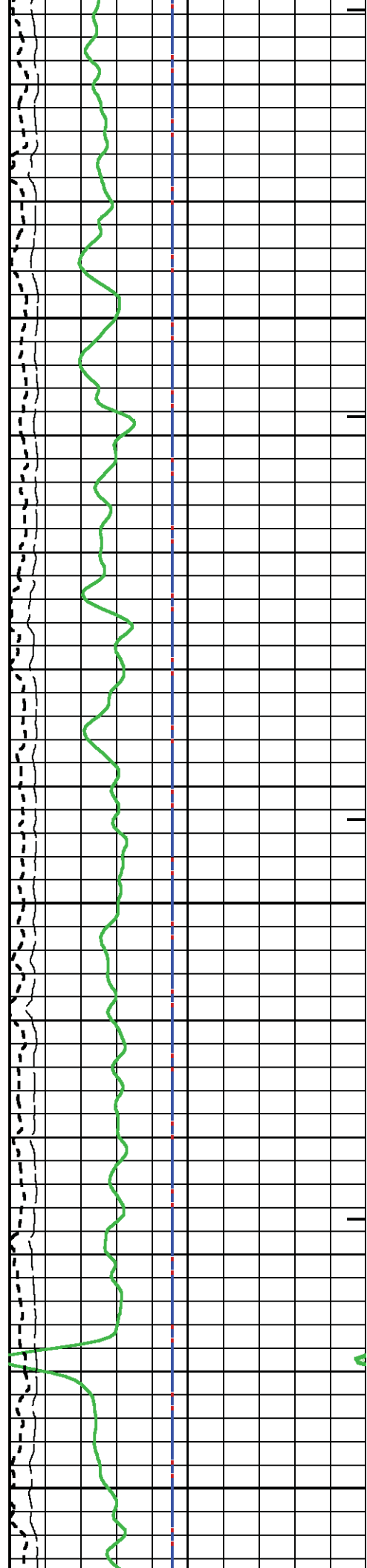


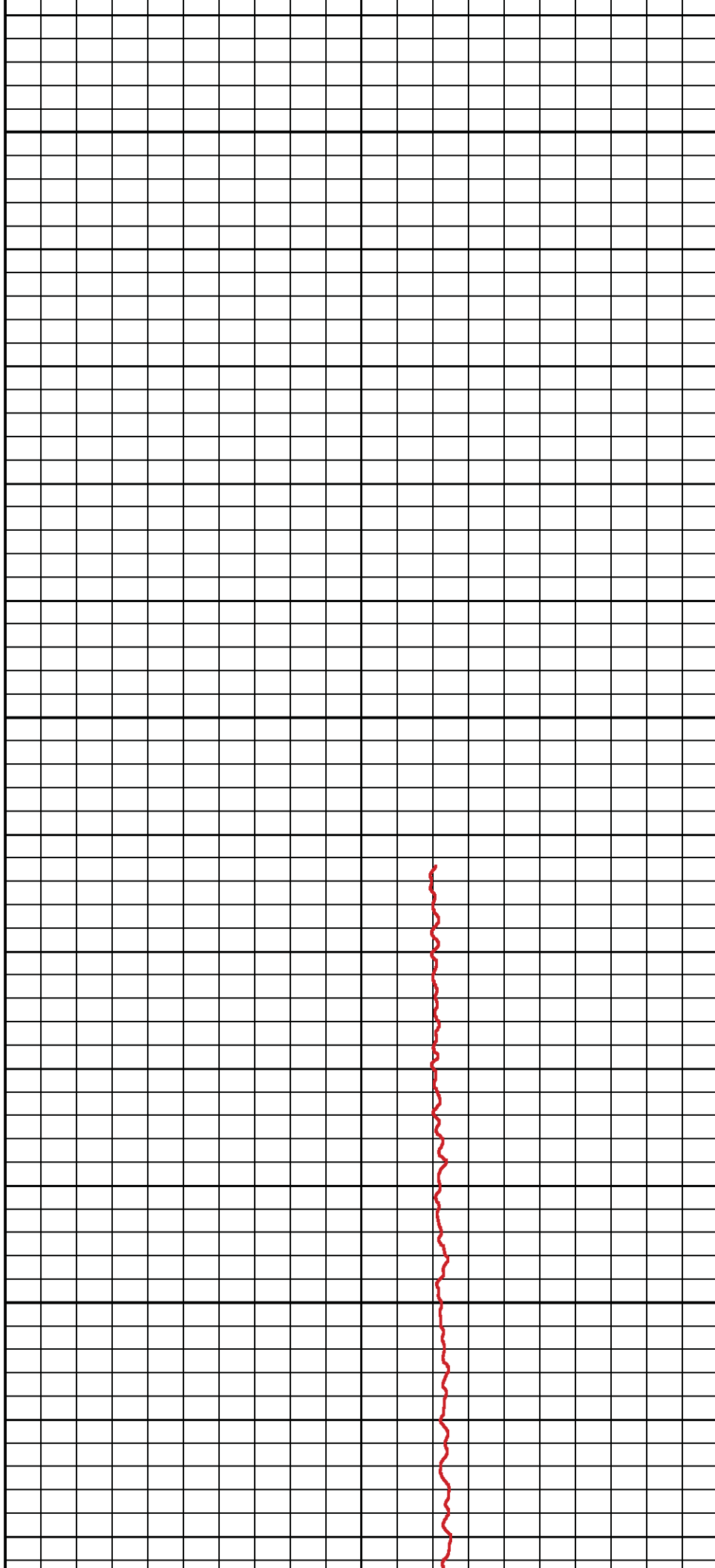


275

300

325

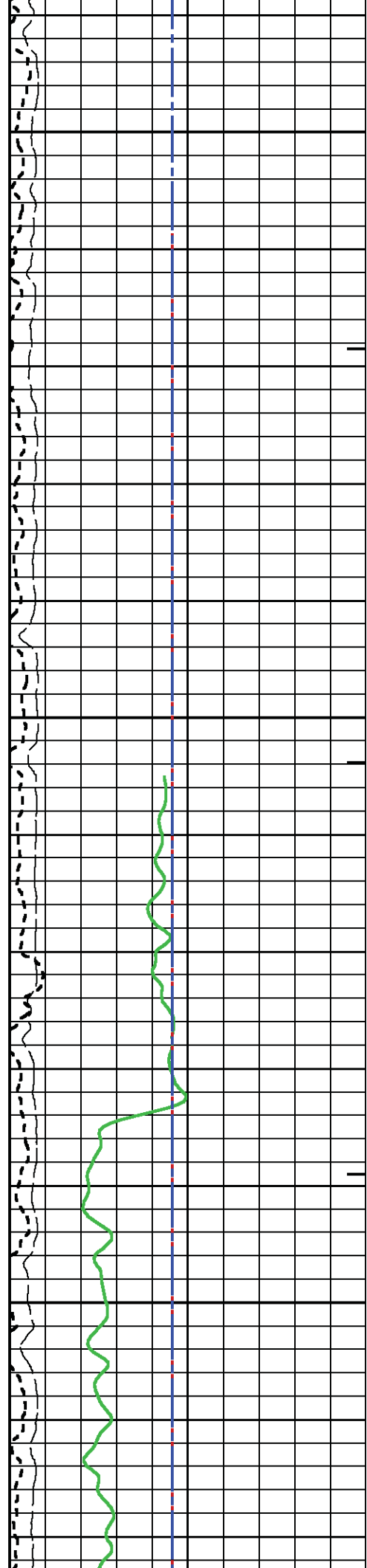




350

375

400



Source File: /data0/MGM/run1-oh/m980g-cals.tp1

DATE/TIME PERFORMED: Tue Jan 29 18:40:58 2013

CHT PRIMARY CALIBRATION SUMMARY

Signal Low Signal High Scale Mult Scale Add	(raw)	50.00	(raw)	560.75	1.96	-97.90	(kgf)	0.00	(kgf)	1000.00
---	-------	-------	-------	--------	------	--------	-------	------	-------	---------

TOOL #: 3981XA 10516528

DATE/TIME PERFORMED:

CALIBRATION / VERIFICATION SUMMARY

METERS

MINUTE MARK

GAMMA RAY [grq!]

(gAP1)

CALIPER [cal]

 (uu)

BIT SIZE

 (ww)

SP [sp]

 $(\wedge w)$

DIFF. TENSION [ten] -10

(kgf)

CH-TENSION [cht]

(kgf)

(deg)

TTRM TEMP. [wtbh]

50

TOOL # : 1678MC 10386815

DATE/TIME PERFORMED: Sun Jan 6 11:29:56 2013

UNIT # : 5753XB 10108816

ORIENTATION # : 4401XB 12466129

ORIT TBM CHECK

89.9

1000.2

359.7

0.4

0.4

0.0

DEVIATION (deg)

QA (mg)

MEASUREMENT (deg)

ROTATION OFFSET (deg)

ROTATION (deg)

MAC-F1 ORIENT

990.0

1010.0

357.5

2.5

TOOL # : 2436XA 10105638

DATE/TIME PERFORMED: Sun Jan 13 18:44:58 2013

UNIT # : RCOR 10274

CALIBRATOR # : 2437XB 112675

SOURCE # : 4718XA N-1234

SSN

LSN

SSN/LSN

MCF

CNRATIO

CN

DT CPS

DT CPS

4800.31

823.98

5.82573

0.98477

5.73700

25.241

0.95000

1.05000

CN BEFORE LOG VERIFICATION SUMMARY

TOOL # : 1329XA 10293862

DATE/TIME PERFORMED: Wed Jan 2 15:30:55 2013

UNIT # : 5753XB 10108816

VERI JIG # : 4702NK DA-479

BACKGROUND CALBRTR ON

MULT

BACKGROUND CALBRTR ON

DIFF.

145.09

1035.84

0.171

24.83

177.26

152.43

140.00

150.00

(cts/s)

(cts/s)

(gAPI)

(gAPI)

(gAPI)

(gAPI)

GR PRIMARY VERIFICATION SUMMARY

TOOL # : 5702NK 10108816

CALB JIG # : 4702NK DA-479

BACKGROUND CALBRTR ON

CR DIFF

MULT

BACKGROUND CALBRTR ON

CALBRTR

149.13

1025.69

876.6

0.171

25.52

175.52

150

(cts/s)

(cts/s)

(gAPI)

(gAPI)

(gAPI)

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10391896 DATE/TIME PERFORMED: Tue Jan 29 22:25:39 2013 DAYS SINCE CAL: 11

UNIT #: 38155A 008672

VALUE	MULTIPLIER	ADD	SIZE
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ARM

2401.2

0.10156

55,96938

8.667

(uuu)

PAD

1708.8

0.06350

109,42319

6'0-

DIAMETER (arm+pad)

ACTUAL

MEASURED

311.000

313.9

(ww)

UNIT #: 3815SA 008672			
CAL[2] AFTER LOG VERIFICATION SUMMARY			
TOOL #: 2223XA 10102923 DATE/TIME PERFORMED: Tue Jan 29 22:25:06 2013 DAYS SINCE CAL: 11			
VALUE MULTIPLIER ADD SIZE			
ARM	2524.0	0.09961	74.20783
PAD	2400.0	0.06350	-113.28400
ACTUAL		MEASURED	
DIAMETER (arm+pad)		380.000	
		379.7	
		369.8	
		390.2	

UNIT #: 3815SA 008672

GRCOND ID & DATE: Leduc 11813

TOOL #: 1530XA 10125755

DATE/TIME PERFORMED: Fri Jan 18 04:30:03 2013

HDIL PRIMARY CALIBRATION SUMMARY

	LS	SS
TOTAL	3342.1	22355.0
(cps)	3352.1	22354.8
	220.0	220.0
CSPK	224.8	224.1
(channel)	230.0	230.0
	1250.0	1250.0
HV	1494.8	1467.5
(V)	1550.0	1550.0

UNIT #: 3815SA 008672

TOOL #:	2223XA 10102923	DATE/TIME PERFORMED:	Tue Jan 29 22:25:48 2013	DAYS SINCE CAL:	17
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ZDL[2] AFTER LOG VERIFICATION SUMMARY

	LS	SS
TOTAL	3342.4	22356.7
(cps)	3352.1	22354.8
CSPK	224.9	2220.0
(channel)	230.0	230.0
HV	1478.0	1454.0
(V)	1550.0	1550.0

UNIT #: 3815SA 008672

TOOL #:	2223XA 10102923	DATE/TIME PERFORMED:	Tue Jan 29 19:44:14 2013	DAYS SINCE CAL:	16
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ZDL[2] BEFORE LOG VERIFICATION SUMMARY

MG + SHIM (HI PE)	19158.4	6839.7	0.285	0.280	0.360
RATIO AL + SHIM/AL	1.33	1.40	1.60	1.80	1.75
RATIO MG/AL	1.58	1.70	8.55	9.55	8.94

Coil 0 R	0.0051	-0.0016	-0.0009	0.0007	-0.0012	0.0005	0.0002	0.0003
Coil 0 Q	-0.0048	-0.0021	0.0009	-0.0010	0.0010	0.0005	-0.0006	-0.0000
Coil 1 R	-0.0073	0.0001	-0.0007	0.0019	-0.0002	-0.0001	0.0004	0.0022
Coil 1 Q	-0.0169	0.0001	-0.0000	0.0013	-0.0005	-0.0005	0.0006	0.0010
Coil 2 R	-0.0001	-0.0029	0.0018	-0.0001	-0.0034	-0.0003	0.0012	-0.0018
Coil 2 Q	-0.0020	-0.0000	0.0023	-0.0020	-0.0034	-0.0005	-0.0000	0.0012
Coil 3 R	0.0030	-0.0072	0.0028	-0.0004	-0.0004	0.0020	-0.0012	-0.0040
Coil 3 Q	-0.0038	-0.0027	0.0030	0.0005	0.0002	0.0013	0.0001	-0.0016
Coil 4 R	-0.0380	0.0001	0.0056	-0.0069	0.0008	-0.0002	0.0030	-0.0033
Coil 4 Q	0.0095	0.0076	0.0011	-0.0045	0.0033	-0.0015	-0.0057	0.0001
Coil 5 R	-0.0949	-0.0102	-0.0011	0.0031	-0.0017	0.0046	0.0131	-0.0087
Coil 5 Q	0.0196	0.0146	0.0227	-0.0034	-0.0076	0.0054	0.0044	-0.0075

ELEC. GAINS

Coil 0 M	161.24	159.90	157.17	153.12	147.73	141.04	133.17	123.98
Coil 0 P	7.653	25.205	42.334	59.431	76.548	93.715	110.883	128.108
Coil 1 M	283.01	280.47	275.36	267.77	257.78	245.49	231.11	214.57
Coil 1 P	7.712	25.410	42.664	59.864	77.071	94.270	111.496	128.682
Coil 2 M	571.86	566.67	556.16	540.76	520.61	495.72	466.91	433.66
Coil 2 P	7.810	25.663	43.072	60.425	77.755	95.107	112.453	129.813
Coil 3 M	928.30	919.66	902.11	876.20	842.46	800.98	752.74	697.61
Coil 3 P	7.934	26.028	43.686	61.276	78.835	96.396	113.972	131.521
Coil 4 M	1448.5	1435.5	1409.4	1371.0	1320.8	1259.3	1188.0	1107.8
Coil 4 P	7.838	25.730	43.189	60.587	77.981	95.375	112.787	130.196
Coil 5 M	2951.6	2924.6	2869.4	2787.5	2681.9	2552.7	2404.0	2238.3
Coil 5 P	7.980	26.148	43.889	61.558	79.212	96.848	114.481	132.078

AM Factor

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

Coil 0 R -1089 -633 -499 -429 -380 -343 -318 -296

Coil	Q	R	2 R	4 R	4 Q	5 R	5 Q	MM Factor									
								10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz		
Coil 0 Q	-812	-15000	940	-3200	-1400	-20	-930	-150	-760	-160	-660	-130	-600	-120	-550	-110	-520
Coil 0 R	-484	-2700	2100	-436	-2700	1400	-2200	1000	-410	-2200	1400	-2200	1000	-410	-2200	1000	-436
Coil 1 R	-113	-360	83	-126	-280	9	-230	-10	-114	-230	-10	-26	-180	-35	-160	-46	-94
Coil 1 Q	-262	-3300	960	-123	-630	530	-470	360	-85	-380	260	-81	-320	-190	-290	150	-76
Coil 2 R	7.0	-64.0	-0.4	-28.7	-57.0	-12.0	-31.0	-16.0	-32.2	-51.0	-16.0	-29.3	-42.0	-16.0	-39.0	-15.0	-23.4
Coil 2 Q	-47.7	-1500.0	1900.0	-13.0	-290.0	350.0	-220.0	260.0	-8.5	-220.0	260.0	-7.3	-140.0	160.0	-110.0	130.0	-2.5
Coil 3 R	3.4	-23.0	1.6	-8.9	-21.0	-1.3	-10.2	-1.8	-9.4	-19.0	-1.8	-9.6	-19.0	-1.3	-19.0	-0.8	-8.1
Coil 3 Q	65.2	-180.0	180.0	25.6	-100.0	110.0	18.7	16.2	16.0	-51.0	81.0	16.0	-37.0	58.0	-28.0	53.0	20.1
Coil 4 R	-2.68	-18.00	13.00	-3.14	-11.00	1.50	-4.22	-3.42	-3.77	-9.80	0.52	-3.42	-10.00	1.50	-11.00	2.30	-3.68
Coil 4 Q	40.00	-250.00	280.00	17.61	-43.00	64.00	14.37	16.32	14.73	-27.00	51.00	16.32	-11.00	42.00	-5.50	42.00	23.34
Coil 5 R	-8.24	-56.00	51.00	-2.09	-6.90	1.10	-2.01	-1.98	-2.16	-6.90	1.20	-1.98	-14.00	6.30	-19.00	9.60	-2.41
Coil 5 Q	12.04	-88.00	69.00	7.35	-14.00	22.00	8.33	10.45	8.33	-7.00	22.00	13.15	1.10	26.00	4.10	29.00	21.10

Coil	0 M	0 P	1 M	1 P	2 M	2 P	3 M	3 P	4 M	4 P	5 M	5 P
Coil 0 M	0.986	0.850	1.100	0.860	0.991	0.870	1.100	0.880	0.995	0.880	1.100	0.996
Coil 0 P	-0.224	-1.500	1.500	-0.271	-1.500	1.500	-0.179	-1.500	1.500	-0.098	-1.500	1.500
Coil 1 M	0.974	0.850	1.100	0.860	0.981	0.870	1.100	0.880	0.985	0.880	1.100	0.986
Coil 1 P	-0.217	-1.500	1.500	-0.326	-1.500	1.500	-0.221	-1.500	1.500	-0.134	-1.500	1.500
Coil 2 M	0.999	0.890	1.100	0.890	0.999	0.890	1.100	0.890	1.000	0.890	1.100	1.001
Coil 2 P	-0.020	-1.500	1.500	-0.058	-1.500	1.500	-0.063	-1.500	1.500	-0.060	-1.500	1.500
Coil 3 M	1.007	0.900	1.100	1.008	0.900	1.100	1.009	0.900	1.009	0.900	1.100	1.009
Coil 3 P	0.011	-1.500	1.500	-0.018	-1.500	1.500	-0.015	-1.500	1.500	0.007	-1.500	1.500
Coil 4 M	1.001	0.900	1.100	1.002	0.900	1.100	1.003	0.900	1.003	0.900	1.100	1.004
Coil 4 P	-0.017	-1.500	1.500	-0.058	-1.500	1.500	-0.062	-1.500	1.500	-0.058	-1.500	1.500
Coil 5 M	0.997	0.900	1.100	0.997	0.900	1.100	0.997	0.900	0.997	0.900	1.100	0.998
Coil 5 P	-0.036	-1.500	1.500	-0.046	-1.500	1.500	-0.055	-1.500	1.500	-0.065	-1.500	1.500

PARMS

TCID 0

TCID 1

Cal Temp

T Factor

(degC)

IDS

2.610

0.758

16.0

1.00

HDIL BEFORE LOG VERIFICATION SUMMARY

TOOL # : 1530XA 10125755

DATE/TIME PERFORMED: Tue Jan 29 19:45:27 2013

DAYS SINCE CAL: 11

UNIT #: 3815SA 008672

ZERO DATA(mv)		10 KHZ	30 KHZ	50 KHZ	70 KHZ	90 KHZ	110 KHZ	130 KHZ	150 KHZ
Coil 0 R	0.005	-0.001	-0.001	-0.000	0.000	-0.000	0.000	0.000	-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	-0.100 0.100
Coil 0 Q	-0.006	-0.002	0.001	0.001	-0.001	-0.000	0.001	-0.001	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	-0.100 0.100
Coil 1 R	-0.006	0.001	0.001	0.001	0.001	-0.000	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	-0.100 0.100
Coil 1 Q	-0.017	0.001	-0.000	0.001	0.001	-0.000	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	-0.100 0.100
Coil 2 R	0.004	-0.001	0.001	0.001	-0.001	0.002	-0.000	-0.004	-0.003
	-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	-0.100 0.100
Coil 2 Q	-0.002	0.000	0.001	-0.000	0.001	0.001	-0.001	-0.001	-0.002
	-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	-0.100 0.100
Coil 3 R	0.001	-0.006	-0.000	-0.000	-0.000	-0.000	-0.000	0.001	-0.003
	-0.500 0.500	-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	-0.100 0.100
Coil 3 Q	-0.006	-0.003	-0.003	-0.004	0.002	0.002	0.001	0.002	-0.005
	-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	-0.100 0.100
Coil 4 R	-0.030	-0.003	0.003	-0.007	-0.004	-0.007	-0.007	-0.001	0.002
	-0.500 0.500	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200
Coil 4 Q	0.006	0.007	-0.002	-0.005	0.003	-0.004	0.004	0.002	-0.002
	-1.000 1.000	-0.400 0.400	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200	-0.200 0.200
Coil 5 R	-0.089	-0.009	0.010	0.007	0.003	0.007	0.007	-0.005	-0.002
	-1.200 1.200	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400
Coil 5 Q	-0.009	0.005	0.012	0.003	-0.005	-0.005	0.006	0.002	-0.012
	-1.500 1.500	-0.800 0.800	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400	-0.400 0.400

ELEC. GAINS

Coil 0 M	161.04	159.71	156.98	152.93	147.56	140.94	133.03	123.94	
Coil 0 P	7.585	25.203	42.353	59.467	76.606	93.789	110.999	128.217	
Coil 1 M	283.08	280.54	275.39	267.80	257.83	245.63	231.21	214.66	
Coil 1 P	7.655	25.412	42.689	59.912	77.128	94.358	111.599	128.832	
Coil 2 M	571.26	566.06	555.56	540.18	520.02	495.39	466.43	433.30	
Coil 2 P	7.730	25.652	43.087	60.452	77.814	95.170	112.548	129.909	
Coil 3 M	928.15	919.53	901.90	876.12	842.31	801.11	752.98	697.47	
Coil 3 P	7.861	26.024	43.695	61.298	78.887	96.471	114.062	131.630	
Coil 4 M	1449.3	1436.4	1410.2	1371.8	1321.7	1260.4	1188.8	1108.5	
Coil 4 P	7.774	25.724	43.200	60.613	78.017	95.447	112.879	130.306	



LAT 64.795		LONG -125.722		DATE 29-JAN-2013	
LOCATION:		ELEVATIONS:		KB 161.2 M	DF
				GL 155.00 M	LICENSE:
				1202	
COMPANY		MGM ENERGY CORP		FILE NO:	API NO:
WELL		MGM SHELL EAST MACKAY I-78			
FIELD		EAST MACKAY			
PROVINCE		NORTHWEST TERRITORIES			

Coil 4 M	4.861	10.861	23.024	29.024	40.695	46.695	58.298	64.298	75.887	81.887	93.471	99.471	111.062	117.062	128.630	134.630
Coil 4 M	1449.1	1407.3	1407.7	1455.1	1382.0	1438.4	1344.3	1399.2	1295.3	1348.1	1235.2	1285.6	1165.0	1212.6	1086.3	1107.6
Coil 4 P	7.800	4.774	22.724	28.724	40.200	46.200	57.613	63.613	75.017	81.017	92.447	98.447	109.879	115.879	127.306	130.238
Coil 5 M	2951.7	2866.5	2924.7	2983.5	2812.2	2927.0	2732.8	2844.3	2629.0	2736.3	2503.1	2605.2	2355.8	2452.0	2194.9	2237.8
Coil 5 P	7.944	23.141	26.149	40.891	46.891	58.577	64.577	76.243	82.243	93.888	99.888	111.535	117.535	129.164	135.164	132.139