



Baker Atlas



FILE NO: _____
 COMPANY: SIERRA GEOTHERMAL POWER, INC.
 WELL: ALUM 25-29
 FIELD: ALUM
 COUNTY: ESMERALDA STATE NEVADA

Ver. 3.87
 LOCATION: 2235.18' FSL & 938.11' FWL
 SW/C
 SEC 29 TWP 1N RGE 38.SE
 OTHER SERVICES: ZDL/CN, XIAC, STAR/OBIL

PERMANENT DATUM: G.L. ELEVATION 4903.57 FT
 LOG MEASURED FROM: K.B. 16.0 FT ABOVE P.D.
 DRILL MEAS. FROM: K.B.
 ELEVATIONS: KB 4919.57 FT, DF, GL 4903.57 FT

DATE	15-NOV-2009	
RUN	TRIP	1
SERVICE ORDER	575995	
DEPTH DRILLER	2300 FT	
DEPTH LOGGER	2299 FT	
BOTTOM LOGGED INTERVAL	2244 FT	
TOP LOGGED INTERVAL	0 FT	
CASING DRILLER	16.0 IN @ 571 FT	
CASING LOGGER	571 FT	
BIT SIZE	14.75 IN	
TYPE OF FLUID IN HOLE	LSND	
DENSITY	9.0 LB/G	54 S
PH	9.0	10.0 CS
SOURCE OF SAMPLE	FLOWLINE	
RM AT MEAS. TEMP.	2.53 OHMM @ 61 DEGF	
RMF AT MEAS. TEMP.	2.36 OHMM @ 60 DEGF	
RMC AT MEAS. TEMP.	2.68 OHMM @ 63 DEGF	
SOURCE OF RMF	MEASURED	
RM AT BHT	1.08 OHMM @ 152 DEGF	
TIME SINCE CIRCULATION	3.5 HOURS	
MAX. RECORDED TEMP.	152 DEGF	
EQUIP. NO.	LOCATION	ML-4232 FALLON, NV
RECORDED BY	VERCIYAK	
WITNESSED BY	JERRY HAMBLIN	

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 : CVOL COMPUTED USING 10.75" CASING (BVOL, CVOL UNITS IN CUBIC FEET) CALIPER VERIFIED IN CASING
 10" RESISTIVITY BEING AFFECTED BY BOREHOLE SIZE, ESPECIALLY IN HIGH RESISTIVITY ZONES.
 THANKS FOR USING BAKER ATLAS
 CREW: LAPOINT / HAYCOCK
 RIG: ENSIGN 561

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	SWL	3944XD	102D137D	FREE
1	1	TTRM	3981XB	102D301D	FREE
1	1	WTS	3514XB	102D0359	FREE
1	1	GR	1329XB	102D300D	DECENT
1	1	CN	2446XA	179981	DECENT
1	1	ZDL	2234XA	10334913	PAD DEVICE
1	1	KNCKL	3939XA	10143909	FREE

1	1	HDIL	1515EA / MA	10069826 / 10069832	S/D
1	1	ORIT	4401XB	10185246	FREE
1	1	XMAC	1677EA / 1678MC	10337574 / 370238	CENT
1	1	ISO	1678PB	10213117	CENT
1	1	XMAC XTR	1678BA / 1678FA	370234 / 10199668	CENT

MAIN LOG 2"/100FT SCALE

ECLIPS 6.01 Feb 21, 2008
Updates: 1

Sun Nov 15 23:43:12 2009

Pcrplt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.42

PARAMETER AND FILTER SUMMARY REPORT

File: /dat1a/575995/k771104.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 492.500 ft BOTTOM DEPTH: 2309.750 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
TTRM	FILTER ()	medium (1)		TOP	BOTTOM
	FILTER (.h)	medium (1)		"	"
	FILTER (.l)	medium (1)		"	"
Y AXIS CALIPER	FILTER ()	medium (1)		"	"
	FILTER ()	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
CALIPER	FILTER ()	medium (1)		"	"
	FILTER (.h)	medium (1)		"	"
	FILTER (.l)	medium (1)		"	"
SP-SPDH	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
BIT SIZE	BIT SIZE	14.750	In	TOP	BOTTOM
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	61.0	degF	"	"
	MUD SAMPLE RES	2.530	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	146.0	degF	"	"
	at BH REF DEPTH	2300.0	ft	"	"
	with TEMP GRADIENT	1.200	0.01 degF/ft	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	14.750	In	"	"
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		"	"

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE RXTEMP		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"
	ABC to CALCULATE	STANDOFF		"	"
	STANDOFF	1.00	In	"	"
	TOOL POSITION	ECCENTERED		"	"
	Rmud MULTIPLIER	1.000		"	"

PARAMETER AND FILTER SUMMARY REPORT

File: /dat1a/575995/k771105.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 94.000 ft BOTTOM DEPTH: 651.588 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
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MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)
TTRM	FILTER ()	medium (1)		TOP BOTTOM
	FILTER (.h)	medium (1)		" "
	FILTER (.l)	medium (1)		" "
Y AXIS CALIPER	FILTER ()	medium (1)		" "
TENSION	FILTER ()	medium (1)		" "
GR	FILTER ()	medium (1)		" "
CALIPER	FILTER ()	medium (1)		" "
	FILTER (.h)	medium (1)		" "
	FILTER (.l)	medium (1)		" "
SP-SPDH	FILTER ()	medium (1)		" "

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)
BIT SIZE	BIT SIZE	14.750	In	TOP BOTTOM
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	61.0	degF	" "
	MUD SAMPLE RES	2.530	ohm.m	" "
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	146.0	degF	" "
	at BH REF DEPTH	2300.0	ft	" "
	with TEMP GRADIENT	1.200	0.01 degF/ft	" "
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		" "
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	14.750	In	" "
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		" "

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE RXTEMP		TOP BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		" "
	ABC to CALCULATE	STANDOFF		" "
	STANDOFF	1.00	In	" "
	TOOL POSITION	ECCENTERED		" "
	Rmud MULTIPLIER	1.000		" "

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Nov 15 14:16:58 2009	BIT SIZE
F1:CAL	CAL	Nov 15 14:16:58 2009	CALIPER
F1:GR	GR	Nov 15 14:16:58 2009	GAMMA RAY
F1:M2R1	M2R1	Nov 15 12:51:25 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 10 INCH
F1:M2R2	M2R2	Nov 15 12:51:25 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 20 INCH
F1:M2R3	M2R3	Nov 15 12:51:25 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 30 INCH
F1:M2R6	M2R6	Nov 15 12:51:25 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 60 INCH
F1:M2R9	M2R9	Nov 15 12:51:25 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 90 INCH
F1:M2RX	M2RX	Nov 15 12:51:25 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 120 INCH
F1:SP	SP	Nov 15 14:16:58 2009	SPONTANEOUS POTENTIAL
F1:TEN	TEN	Nov 15 14:16:58 2009	DIFFERENTIAL TENSION

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)						
BIT	0.00	M2R1	54.75	M2R6	54.75	SP	60.75
CAL	81.50	M2R2	54.75	M2R9	54.75	TEN	0.00
GR	99.00	M2R3	54.75	M2RX	54.75		

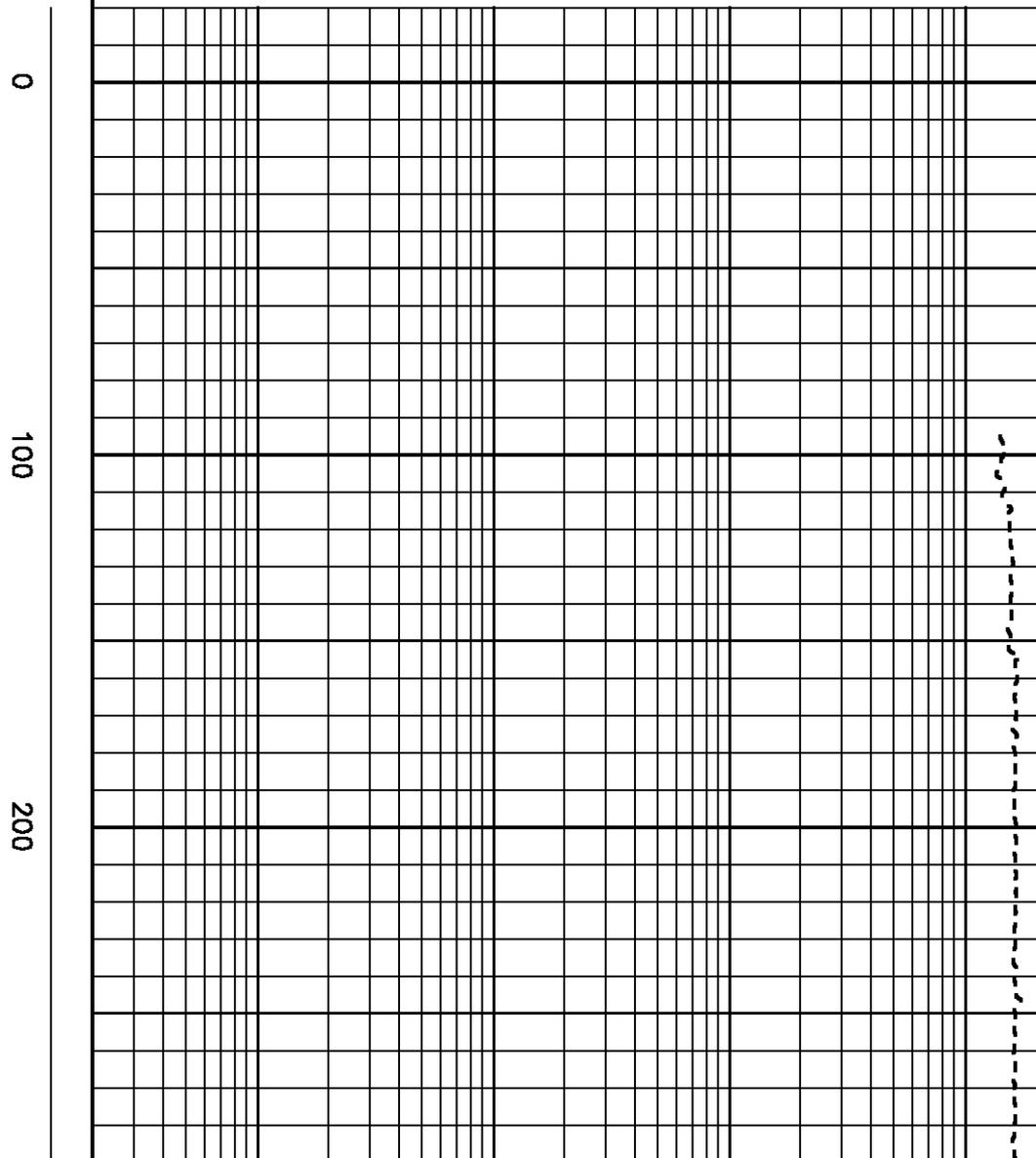
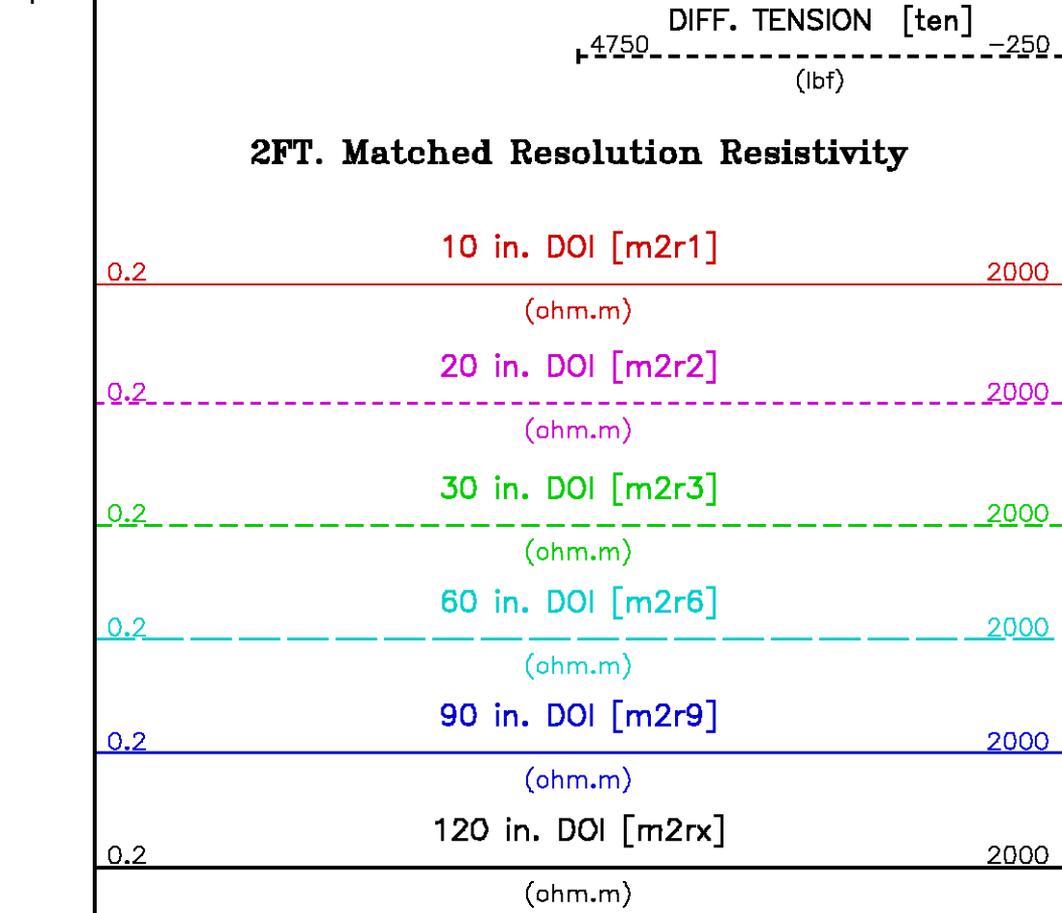
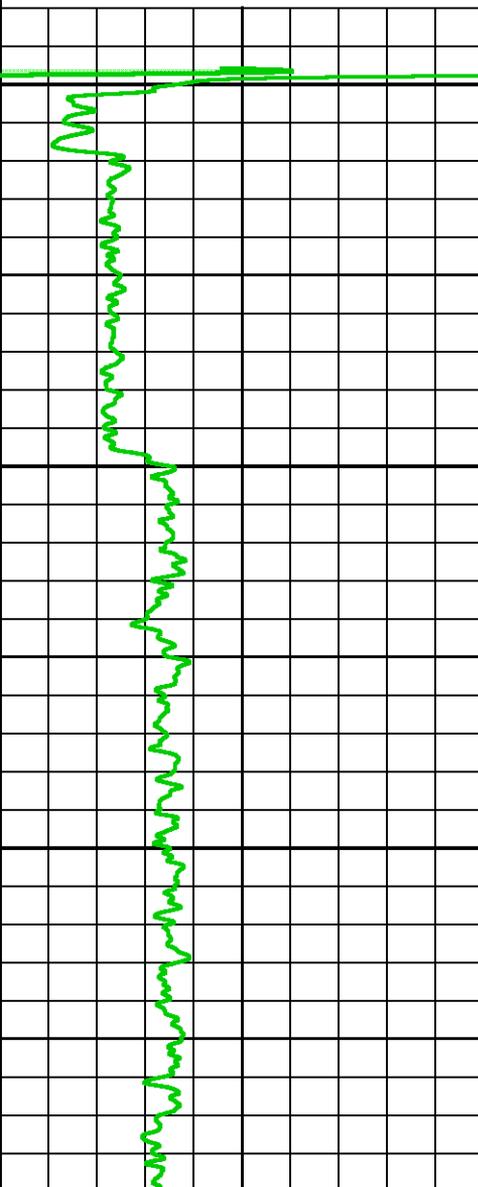
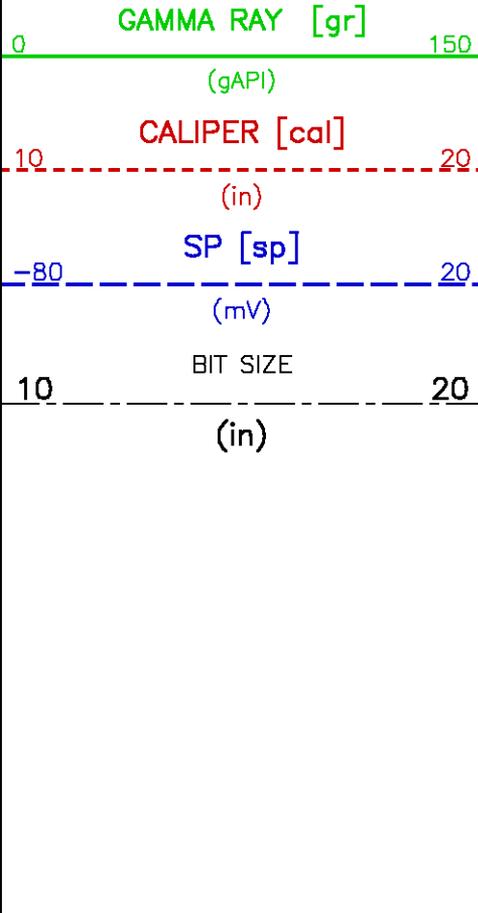
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 Plot Interval : -18.25 - 2310 Feet

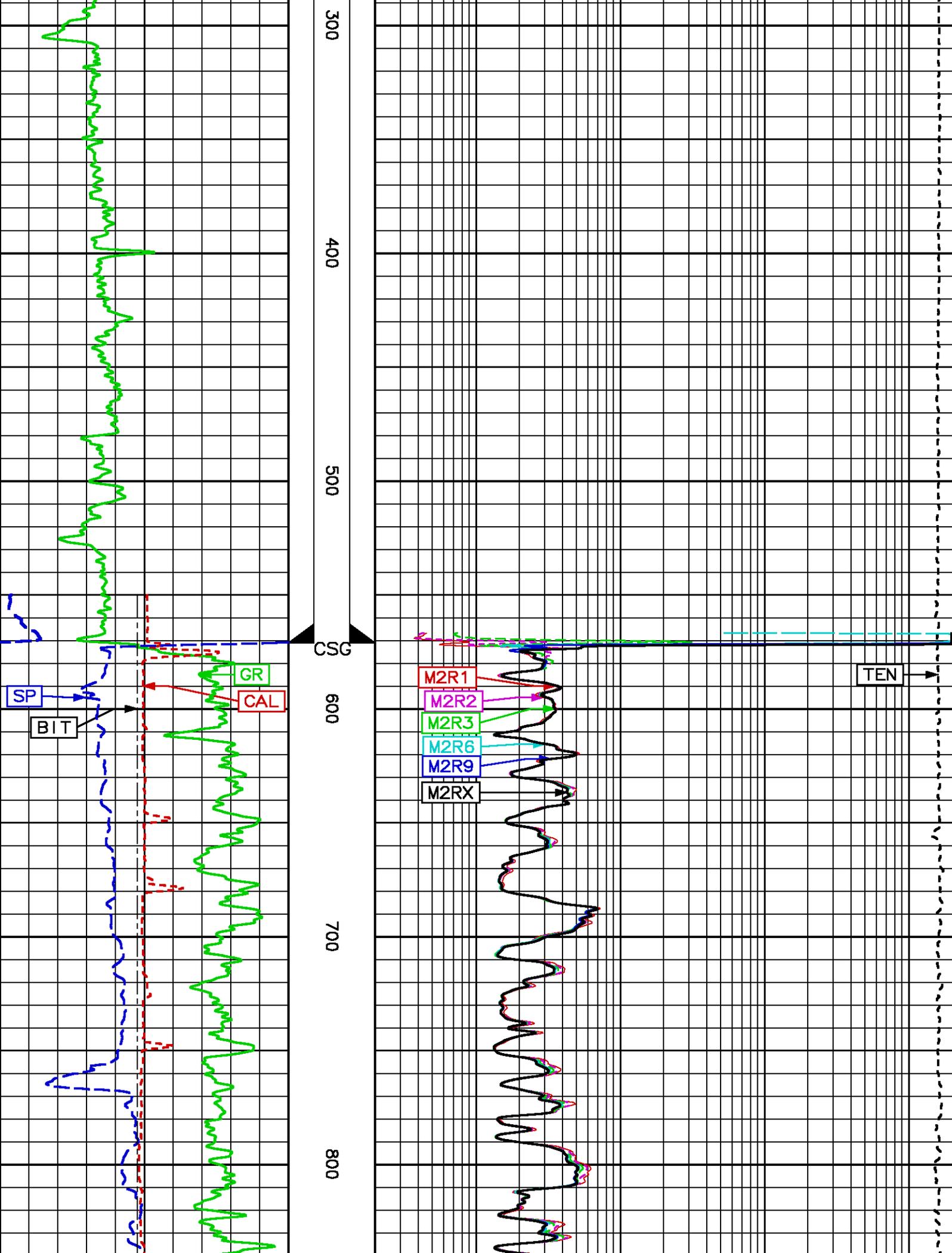
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 Company : SIERRA GEOTHERMAL POWER, INC.
 Well : ALUM 25-29
 Field : ALUM
 File Interval : -18.5 - 2310 Feet
 Oct : k7711

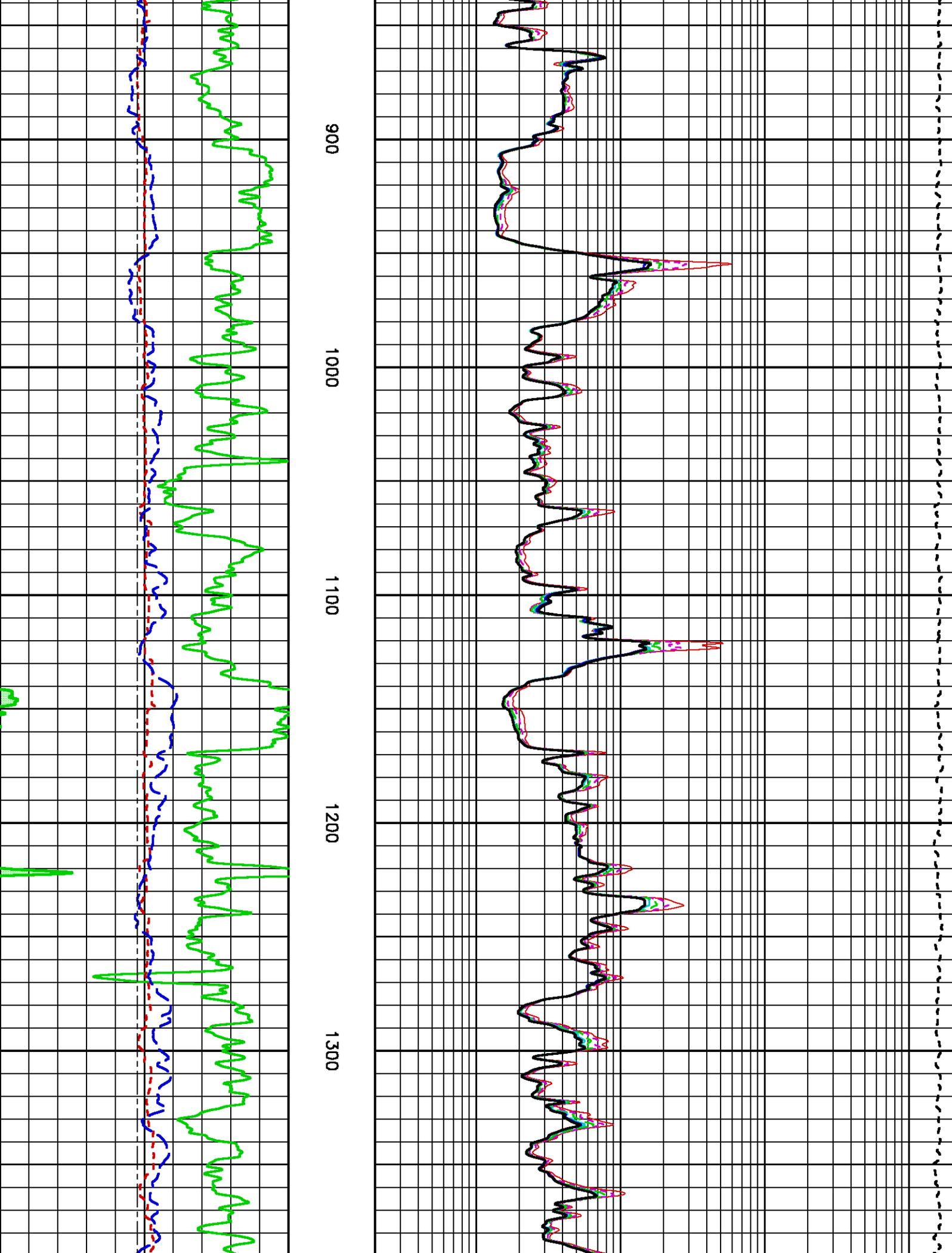
GR BACKUP

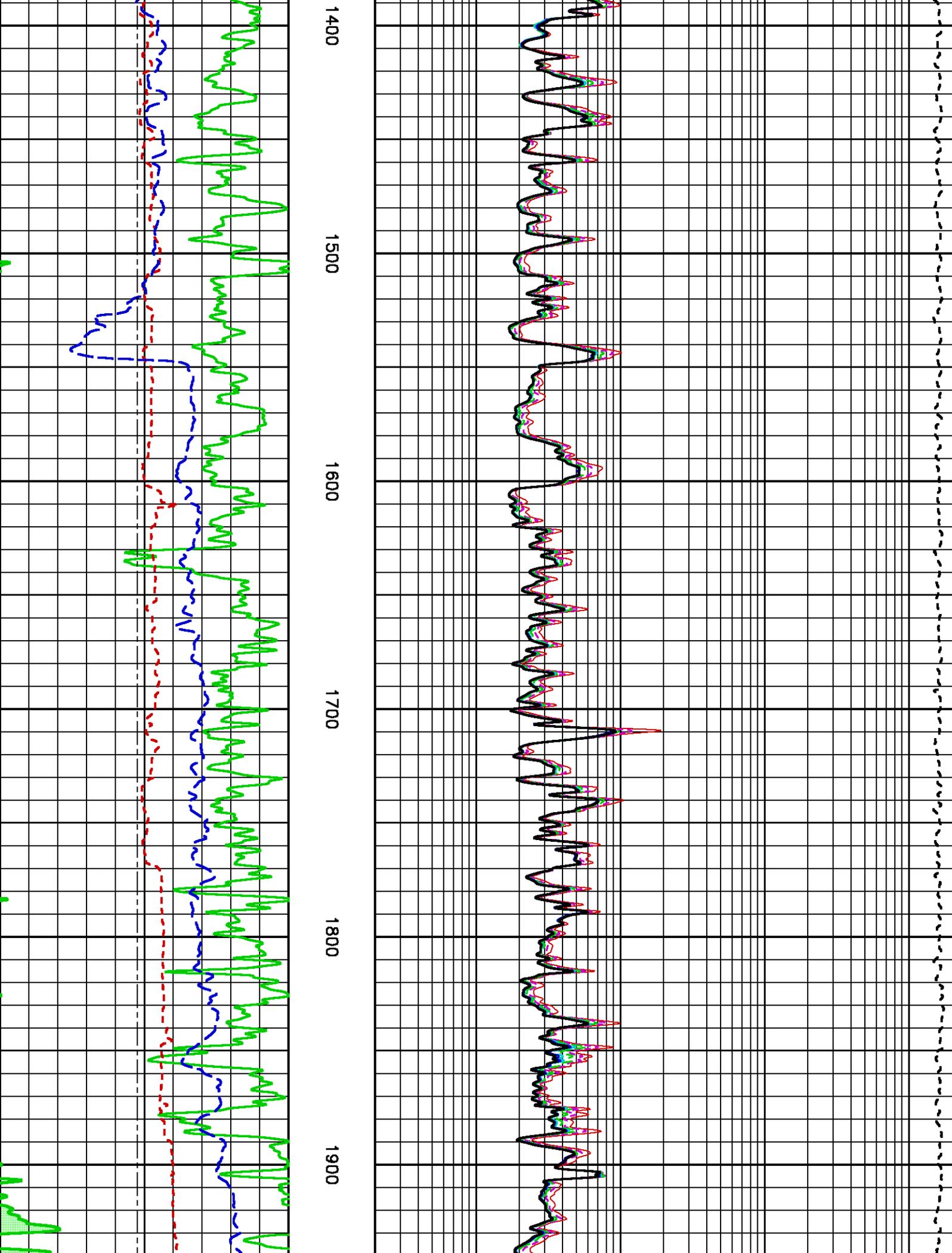
FEET

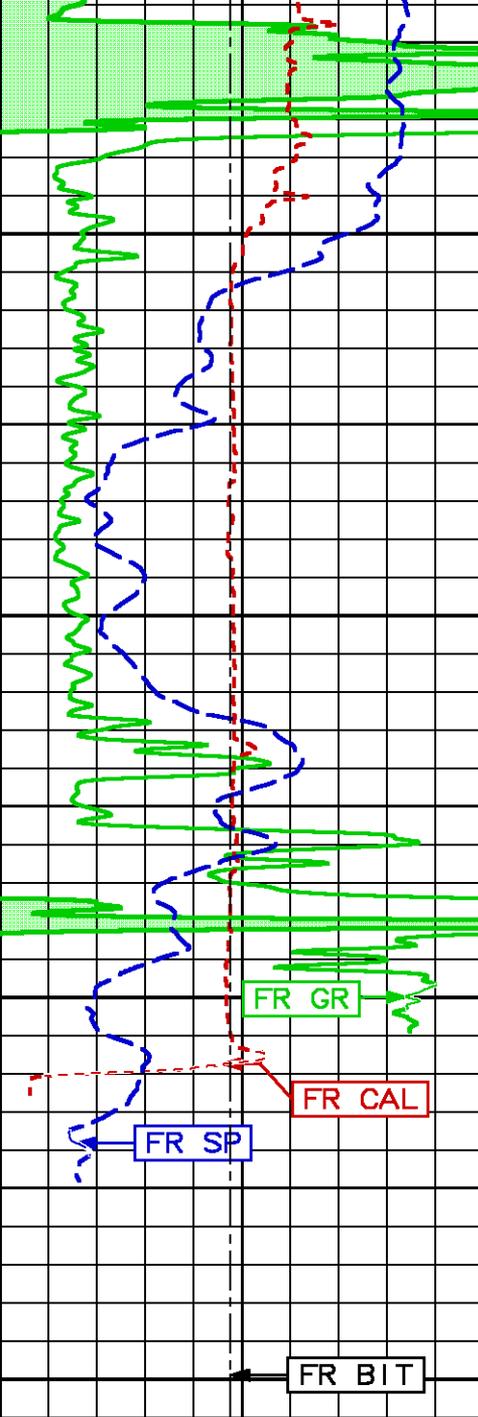
TOOL STICKING



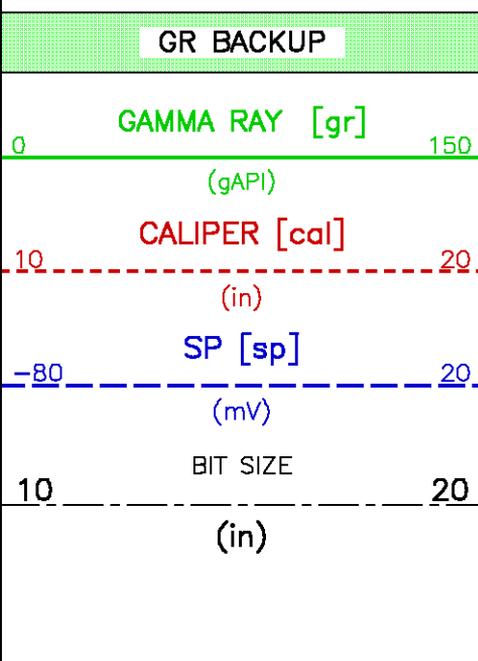




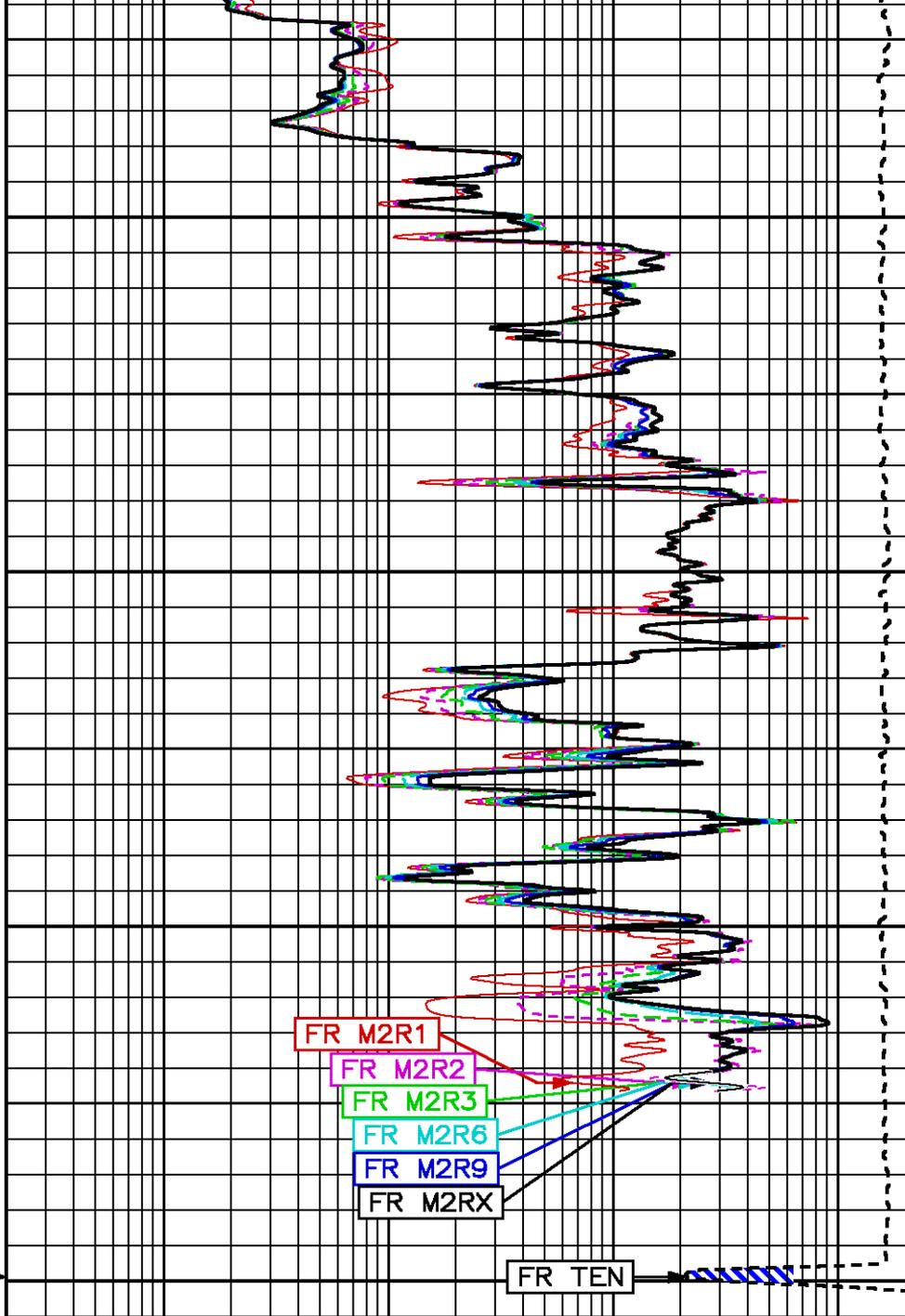




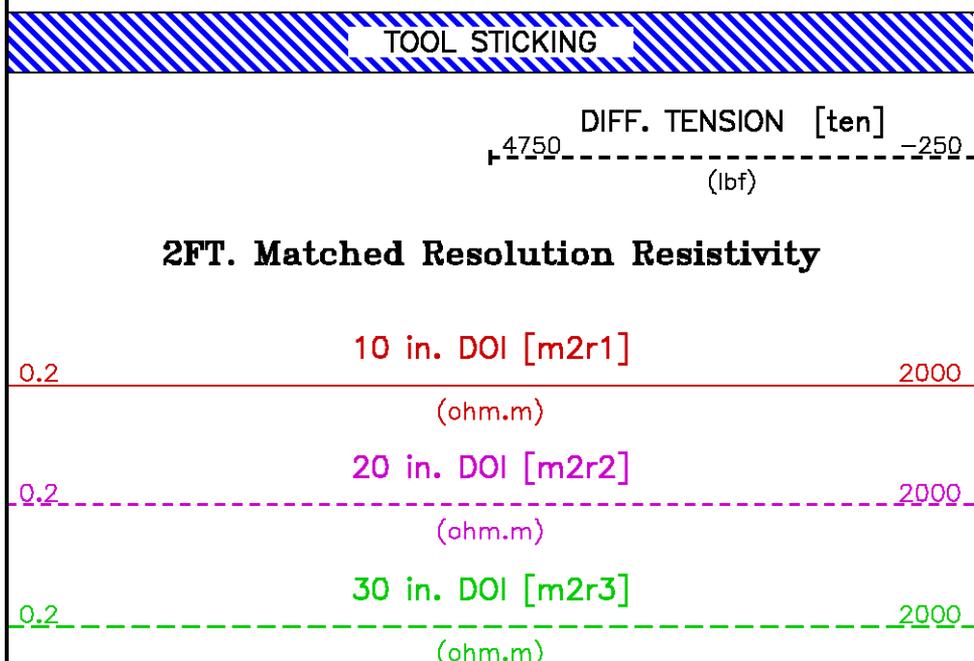
2000
2100
2200
2300
FEET



GR BACKUP
GAMMA RAY [gr]
(gAPI)
CALIPER [cal]
(in)
SP [sp]
(mV)
BIT SIZE
(in)



FR M2R1
FR M2R2
FR M2R3
FR M2R6
FR M2R9
FR M2RX
FR TEN



TOOL STICKING
DIFF. TENSION [ten]
(lbf)
2FT. Matched Resolution Resistivity
10 in. DOI [m2r1]
(ohm.m)
20 in. DOI [m2r2]
(ohm.m)
30 in. DOI [m2r3]
(ohm.m)

0.2	60 in. DOI [m2r6]	2000
	(ohm.m)	
0.2	90 in. DOI [m2r9]	2000
	(ohm.m)	
0.2	120 in. DOI [m2rx]	2000
	(ohm.m)	

MAIN LOG 5"/100FT SCALE

ECLIPS 6.0i Feb 21, 2008
Updates: 1

Sun Nov 15 14:49:07 2009

Pcrplt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.42

PARAMETER AND FILTER SUMMARY REPORT

File: /dat1a/575995/k771104.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 492.500 ft BOTTOM DEPTH: 2309.750 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
TTRM	FILTER ()	medium (1)		TOP	BOTTOM
	FILTER (.h)	medium (1)		"	"
	FILTER (.l)	medium (1)		"	"
Y AXIS CALIPER	FILTER ()	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
CALIPER	FILTER ()	medium (1)		"	"
	FILTER (.h)	medium (1)		"	"
	FILTER (.l)	medium (1)		"	"
SP-SPDH	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	10.750	In	TOP	BOTTOM
BIT SIZE	BIT SIZE	14.750	In	"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	61.0	degF	"	"
	MUD SAMPLE RES	2.530	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	146.0	degF	"	"
	at BH REF DEPTH	2300.0	ft	"	"
	with TEMP GRADIENT	1.200	0.01 degF/ft	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	14.750	In	"	"
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		"	"

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE RXTEMP		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"
	ABC to CALCULATE	STANDOFF		"	"
	STANDOFF	1.00	In	"	"
	TOOL POSITION	ECCENTERED		"	"
	Rmud MULTIPLIER	1.000		"	"

CURVE DESCRIPTION REPORT

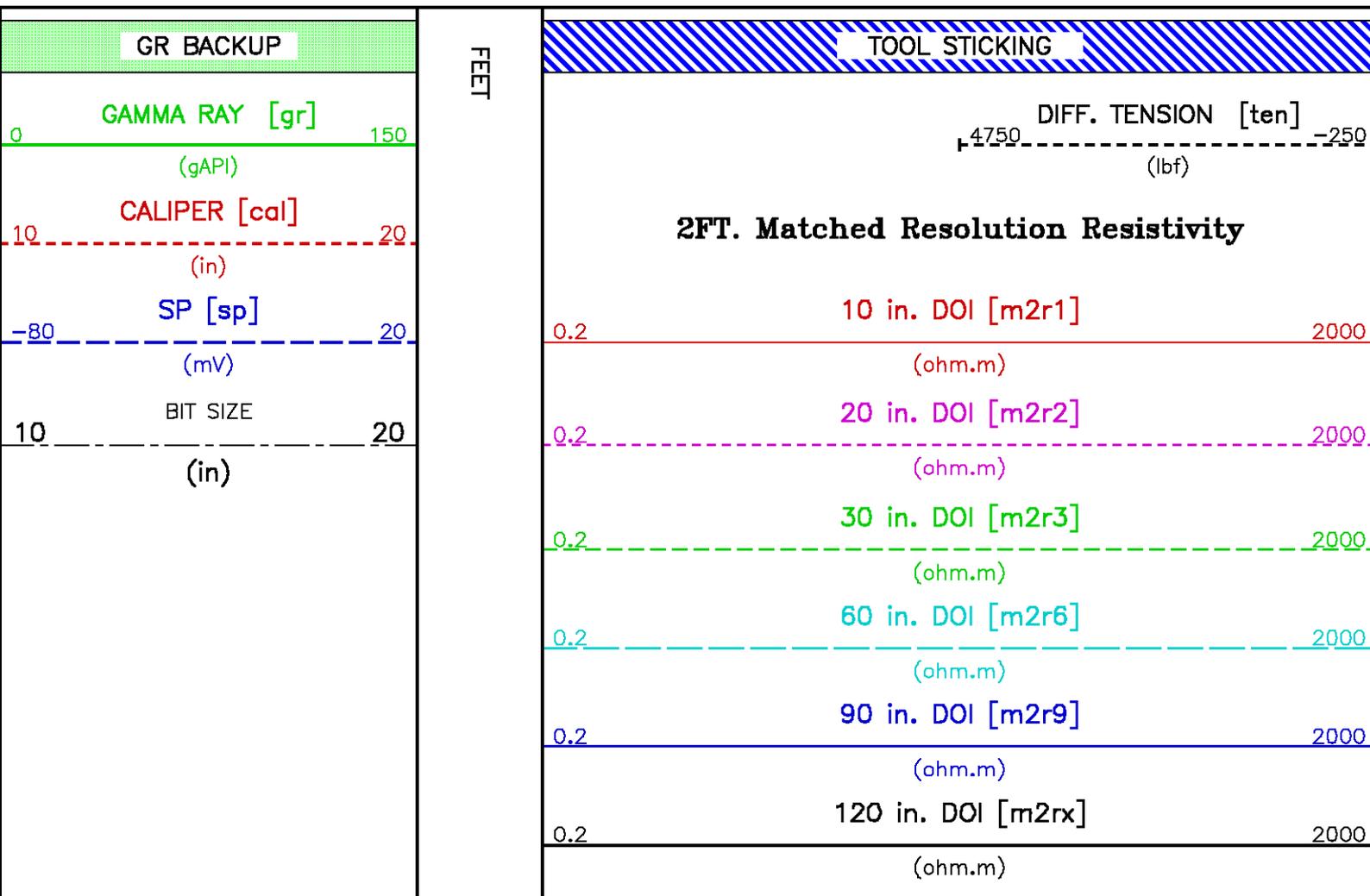
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Nov 15 12:51:25 2009	BIT SIZE
F1:BVOL	BVOL	Nov 15 12:51:25 2009	BOREHOLE VOLUME
F1:CAL	CAL	Nov 15 12:51:25 2009	CALIPER
F1:CVOL	CVOL	Nov 15 12:51:25 2009	CEMENT VOLUME
F1:GR	GR	Nov 15 12:51:25 2009	GAMMA RAY
F1:M2R1	M2R1	Nov 15 12:51:25 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 10 INCH
F1:M2R2	M2R2	Nov 15 12:51:25 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 20 INCH
F1:M2R3	M2R3	Nov 15 12:51:25 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 30 INCH
F1:M2R6	M2R6	Nov 15 12:51:25 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 60 INCH
F1:M2R9	M2R9	Nov 15 12:51:25 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 90 INCH
F1:M2RX	M2RX	Nov 15 12:51:25 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 120 INCH
F1:SP	SP	Nov 15 12:51:25 2009	SPONTANEOUS POTENTIAL
F1:TEN	TEN	Nov 15 12:51:25 2009	DIFFERENTIAL TENSION

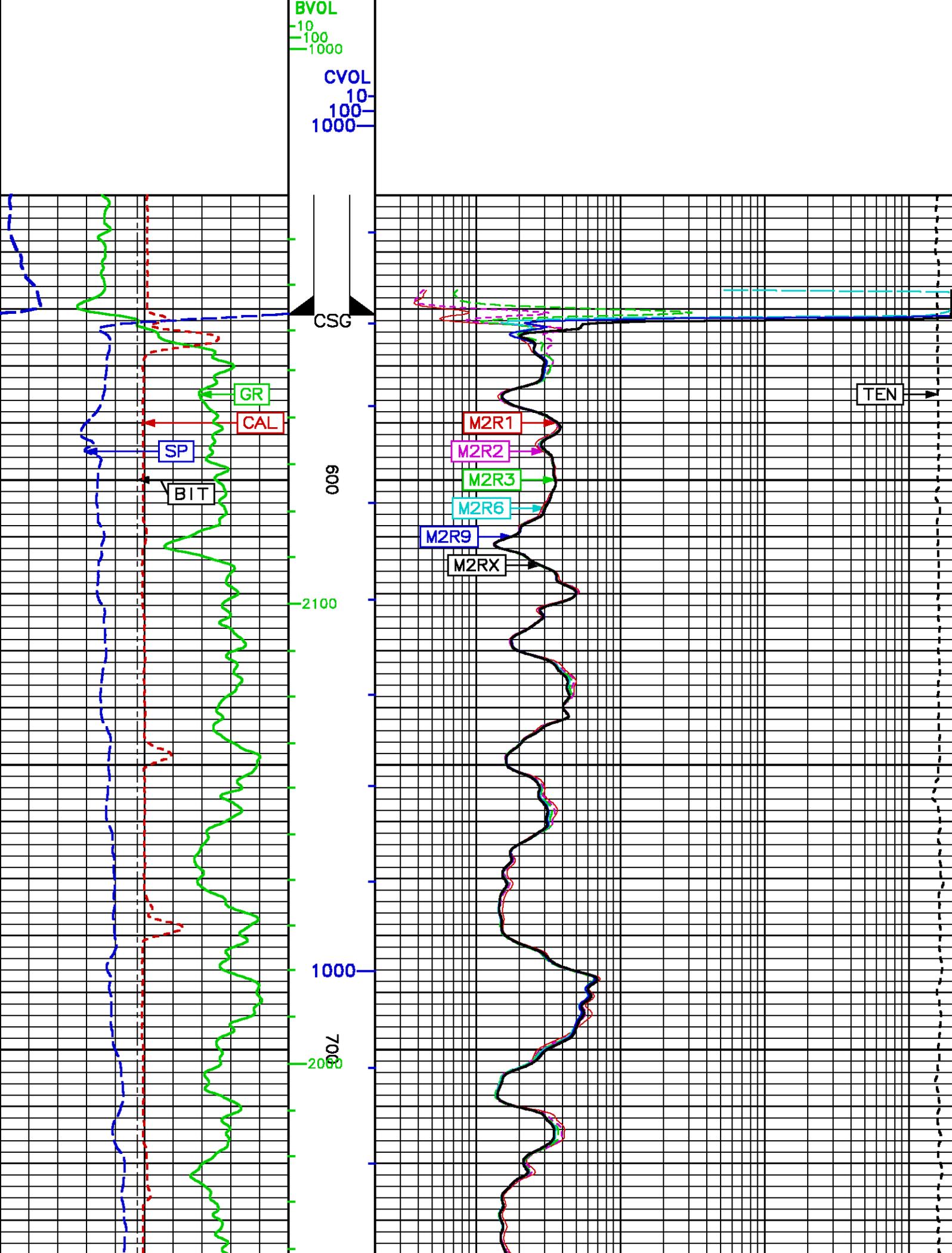
CURVE MEASURE POINT OFFSET

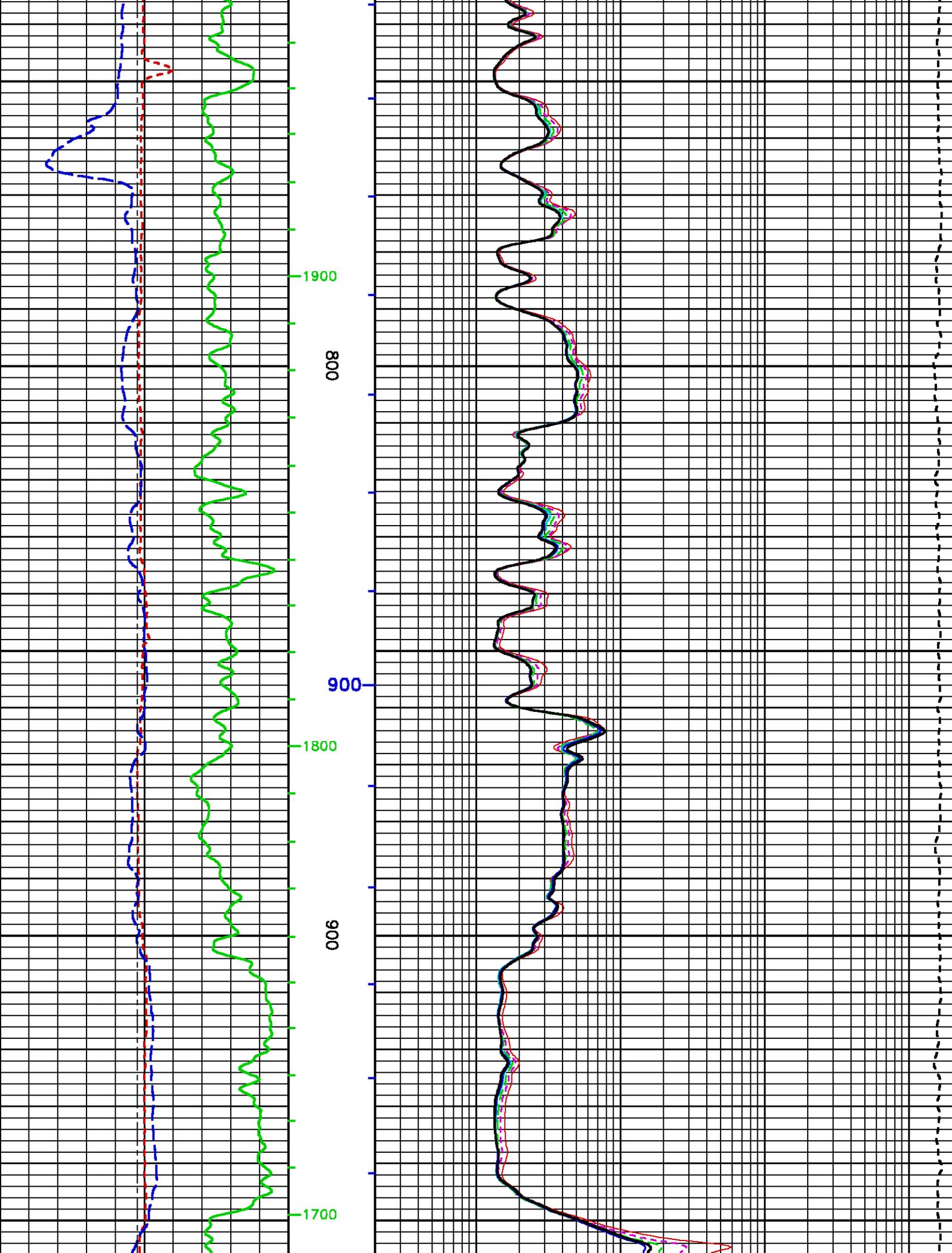
CURVE	OFFSET (ft)						
BIT	0.00	M2R1	54.75	M2R6	54.75	SP	60.75
CAL	81.50	M2R2	54.75	M2R9	54.75	TEN	0.00
GR	99.00	M2R3	54.75	M2RX	54.75		

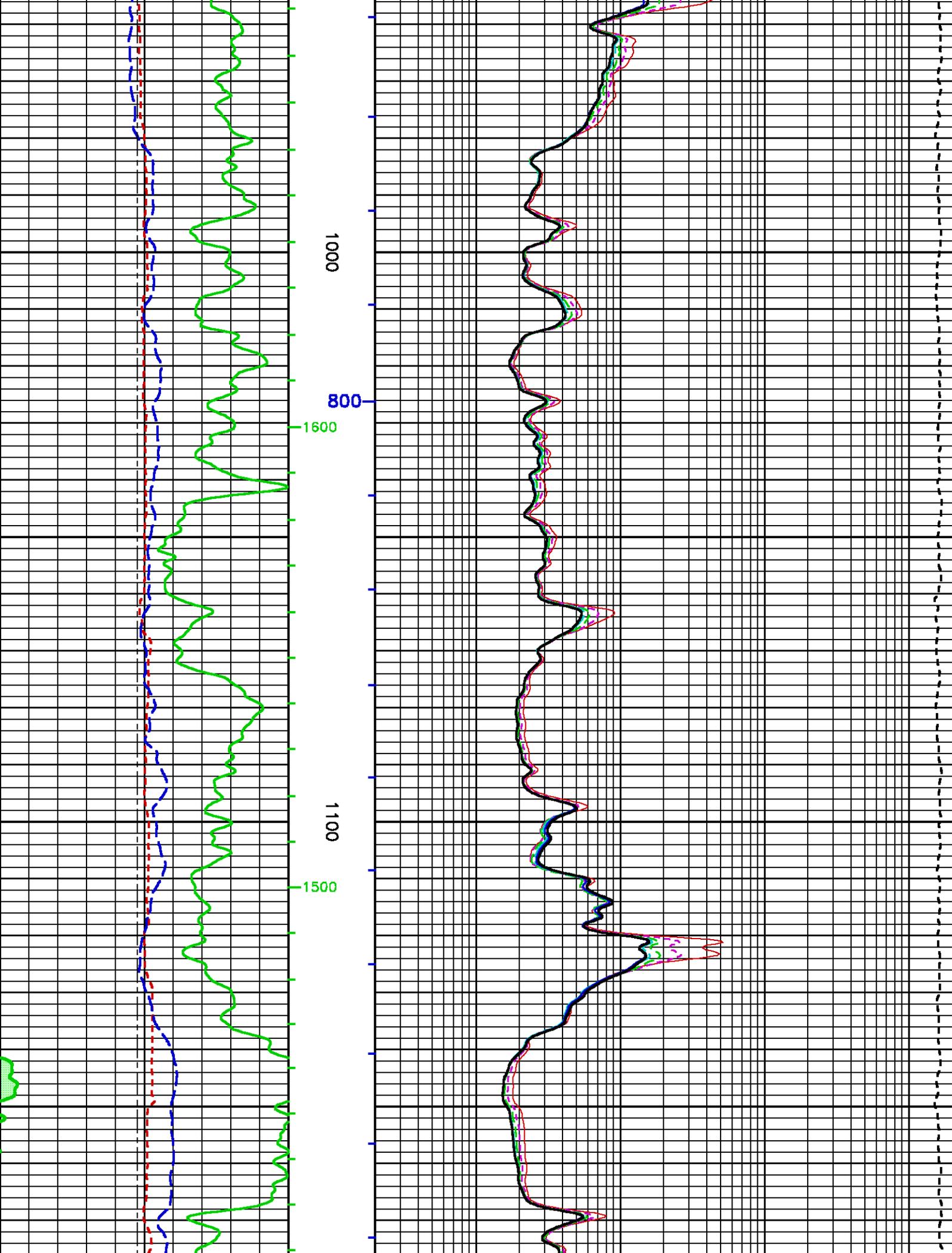
Presentation : cpu1:/dat1a/575995/HDIL_MAIN.pdf [5"/100' Scale]
 Plot Interval : 550 - 2310 Feet

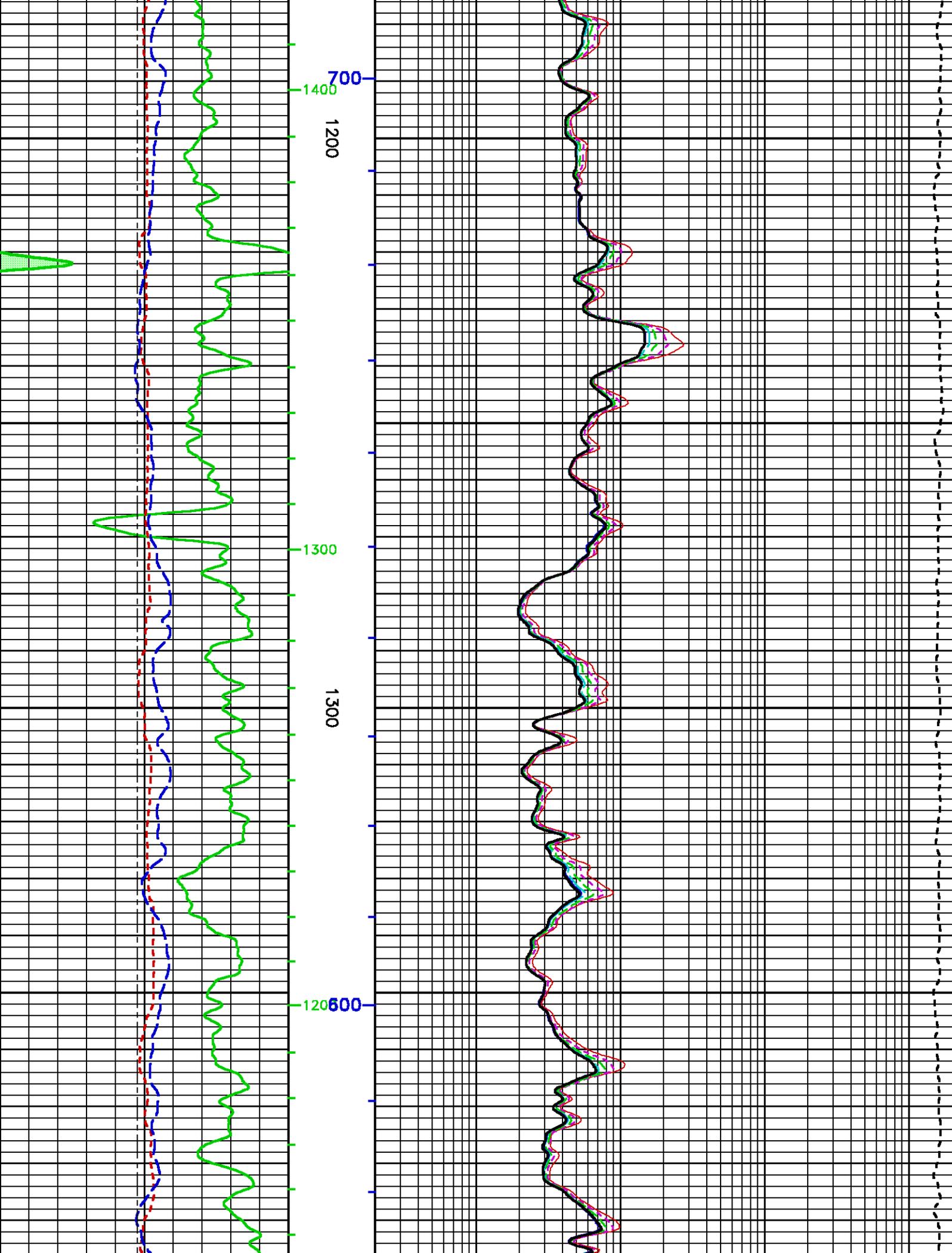
Data File 1 : F1 : cpu1:/dat1a/575995/k771104.aff
 Created On : Nov 15 12:51:25 2009
 Company : SIERRA GEOTHERMAL POWER, INC.
 Well : ALUM 25-29
 Field : ALUM
 File Interval : 380.25 - 2310 Feet
 Oct : k7711

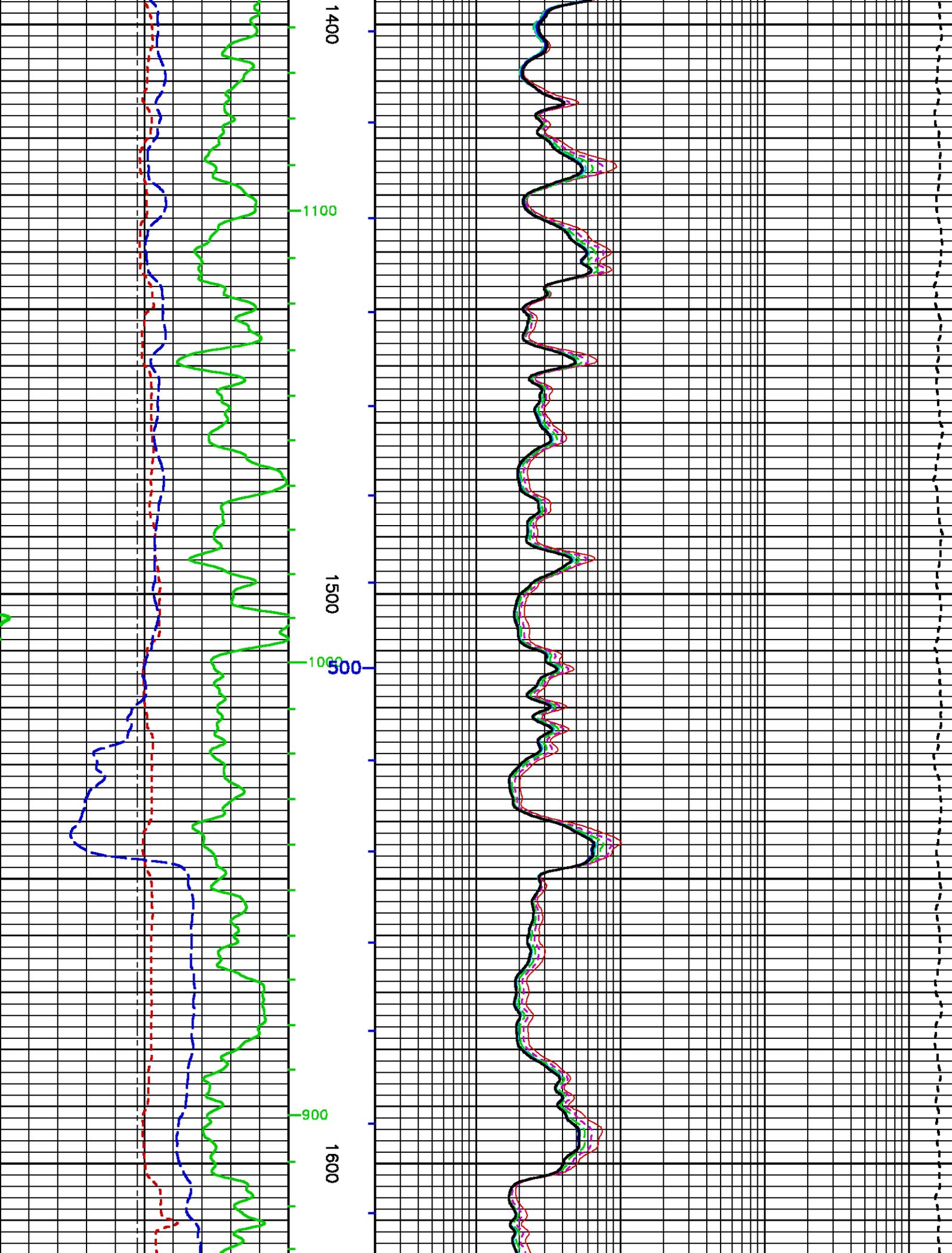


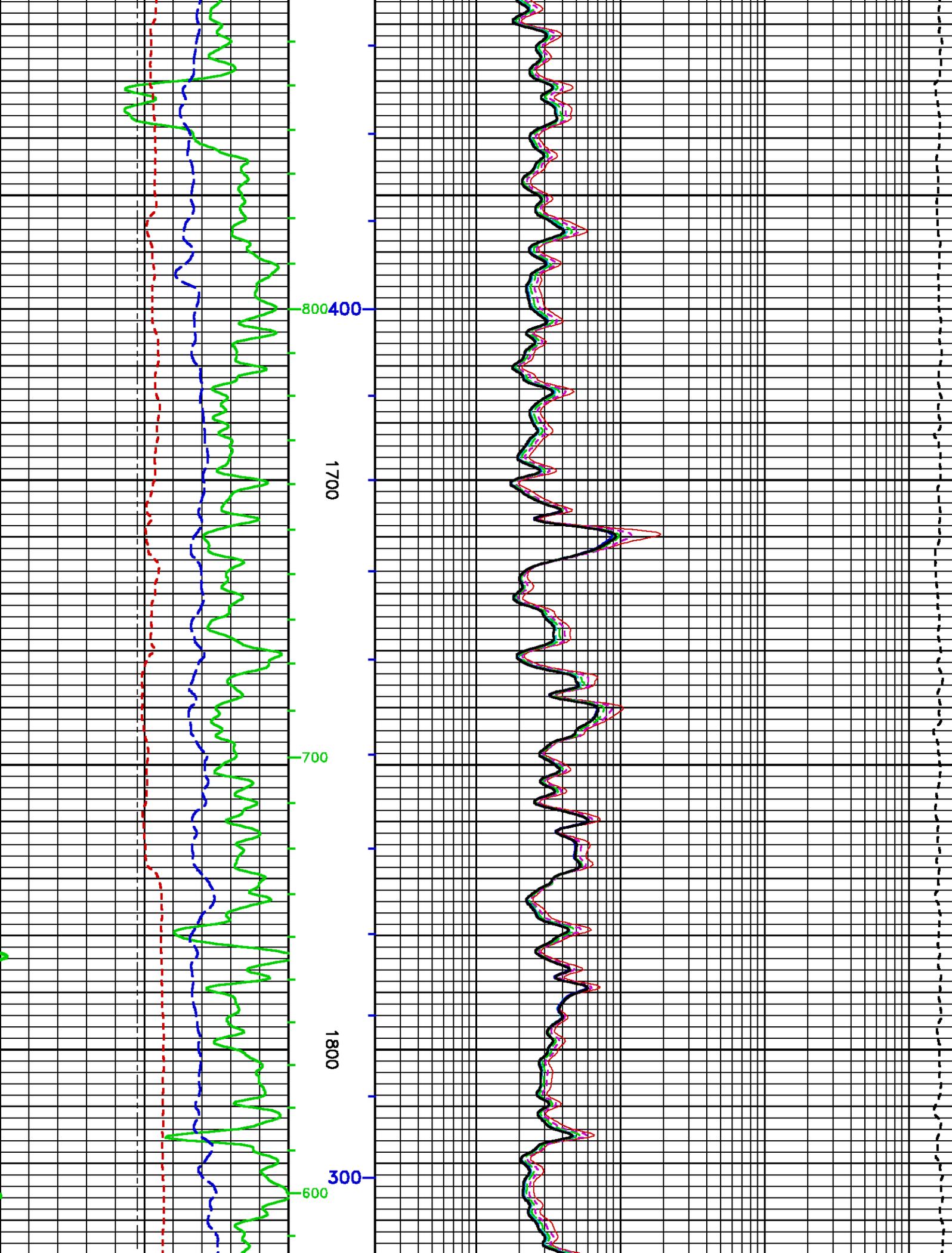


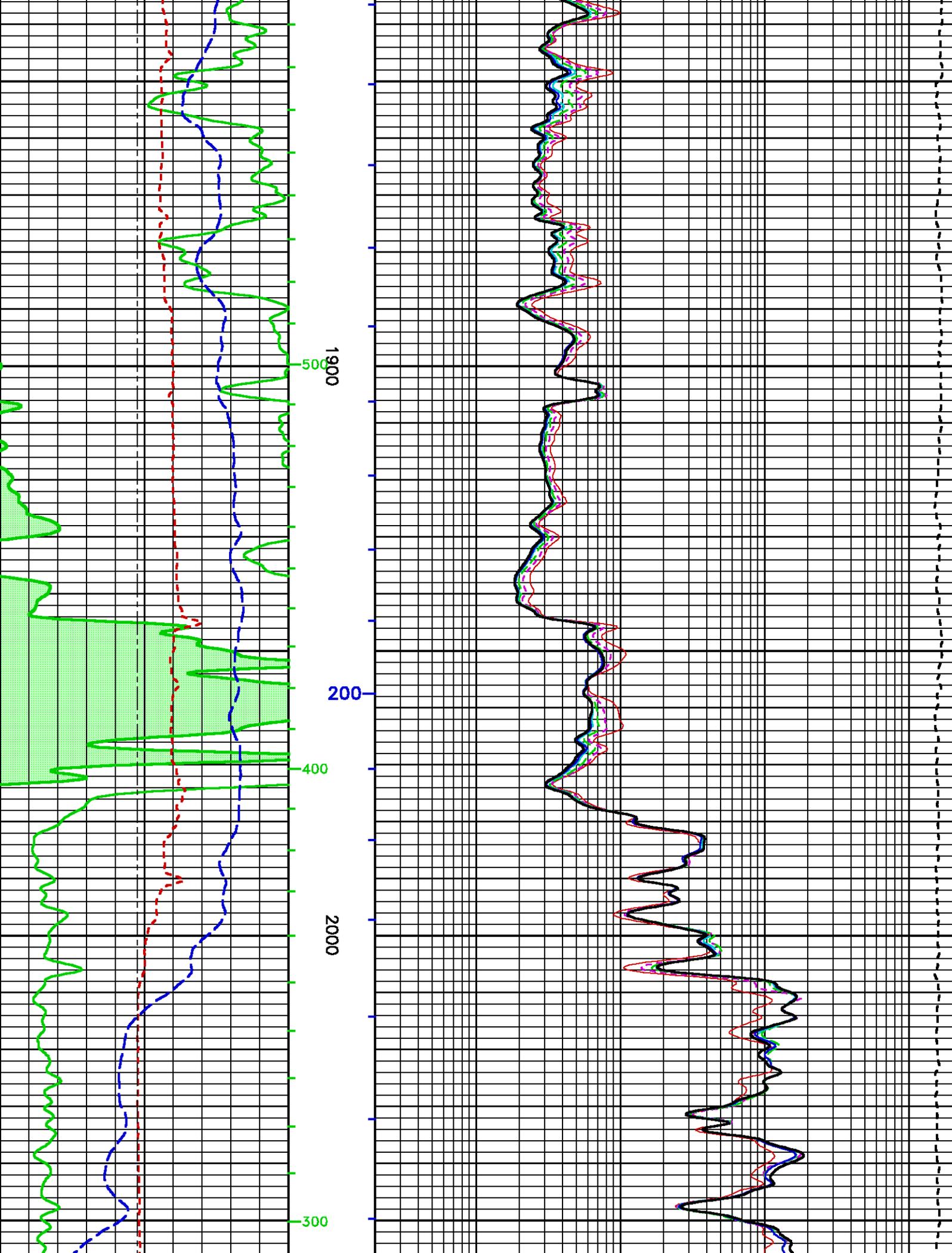


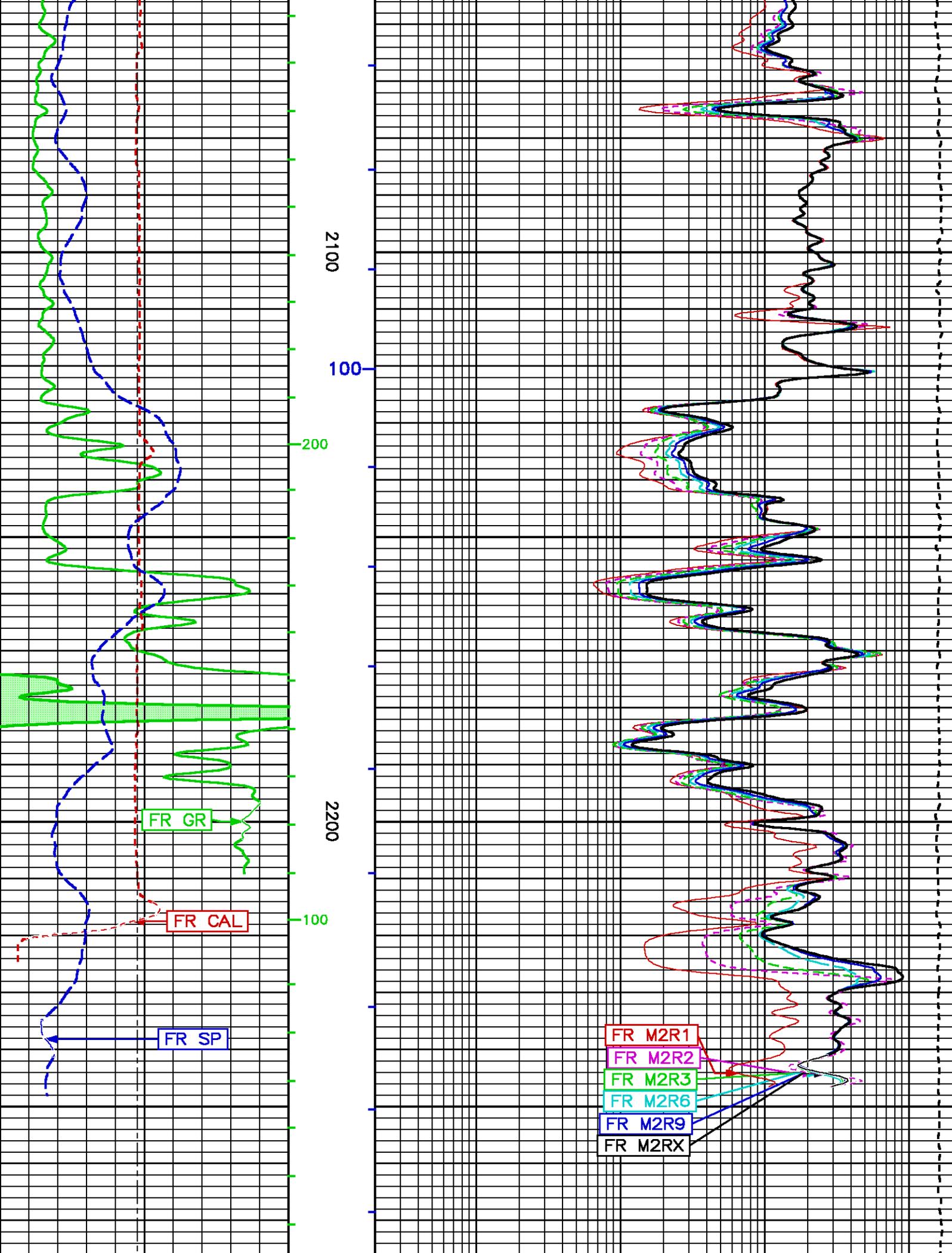


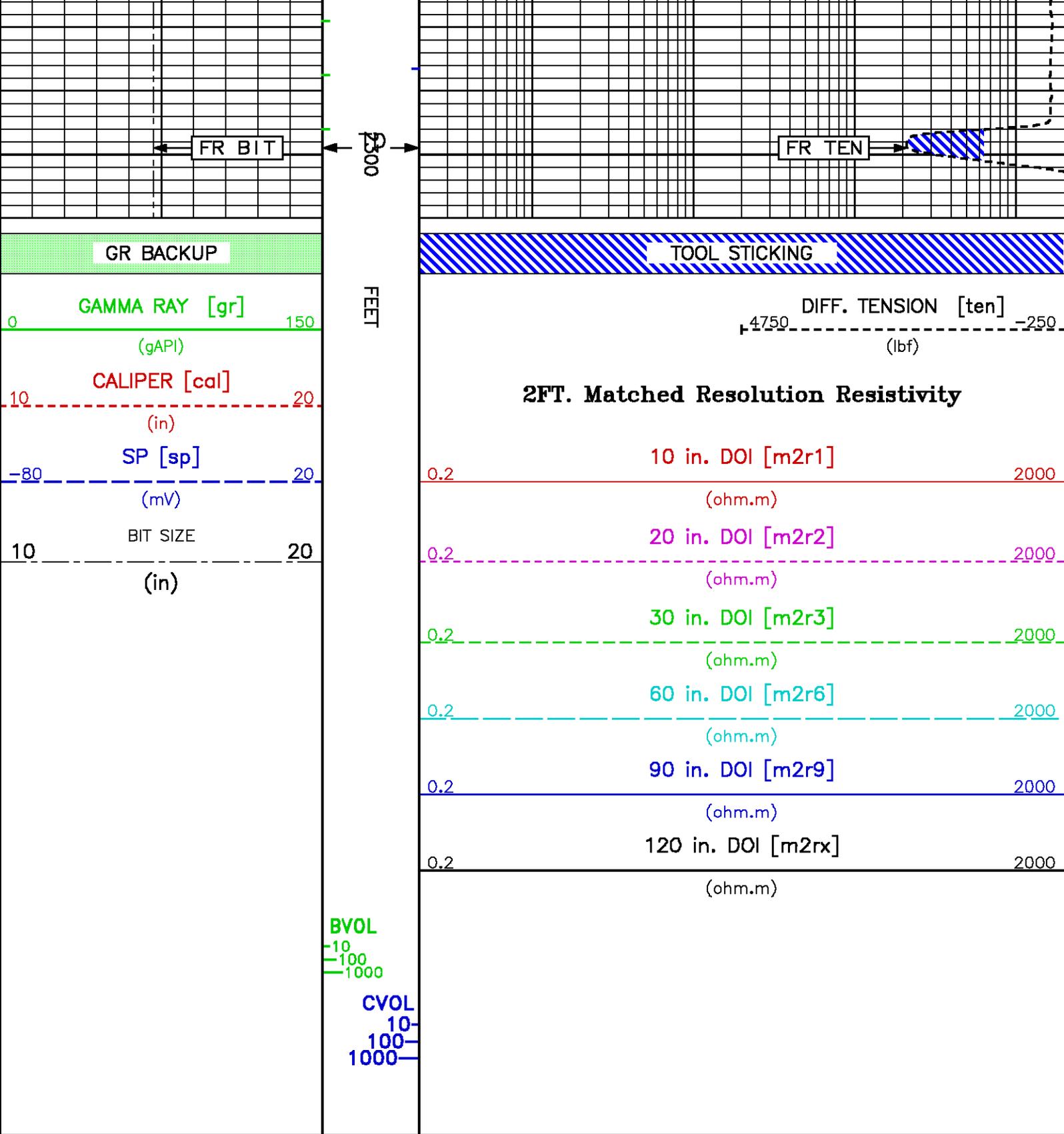












REPEAT LOG

PARAMETER AND FILTER SUMMARY REPORT

File: /dat1a/575995/k771103.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 2073.750 ft BOTTOM DEPTH: 2310.250 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
TTRM	FILTER ()	medium (1)		TOP	BOTTOM
	FILTER (.h)	medium (1)		"	"
	FILTER (.i)	medium (1)		"	"
Y AXIS CALIPER	FILTER ()	medium (1)		"	"
TENSION	FILTER ()	medium (1)		"	"
GR	FILTER ()	medium (1)		"	"
CALIPER	FILTER ()	medium (1)		"	"
	FILTER (.h)	medium (1)		"	"
	FILTER (.i)	medium (1)		"	"
SP-SPDH	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	10.750	In	TOP	BOTTOM
BIT SIZE	BIT SIZE	14.750	In	"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	61.0	degF	"	"
	MUD SAMPLE RES	2.530	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	140.0	degF	"	"
	at BH REF DEPTH	2300.0	ft	"	"
	with TEMP GRADIENT	1.200	0.01 degF/ft	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	14.750	In	"	"
BH MUD RESISTIVITY SOURCE	RMUD SOURCE (HDIL)	TOOL MEASURED		"	"

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE RXTEMP		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"
	ABC to CALCULATE	STANDOFF		"	"
	STANDOFF	1.00	In	"	"
	TOOL POSITION	ECCENTERED		"	"
	Rmud MULTIPLIER	1.000		"	"

CURVE DESCRIPTION REPORT

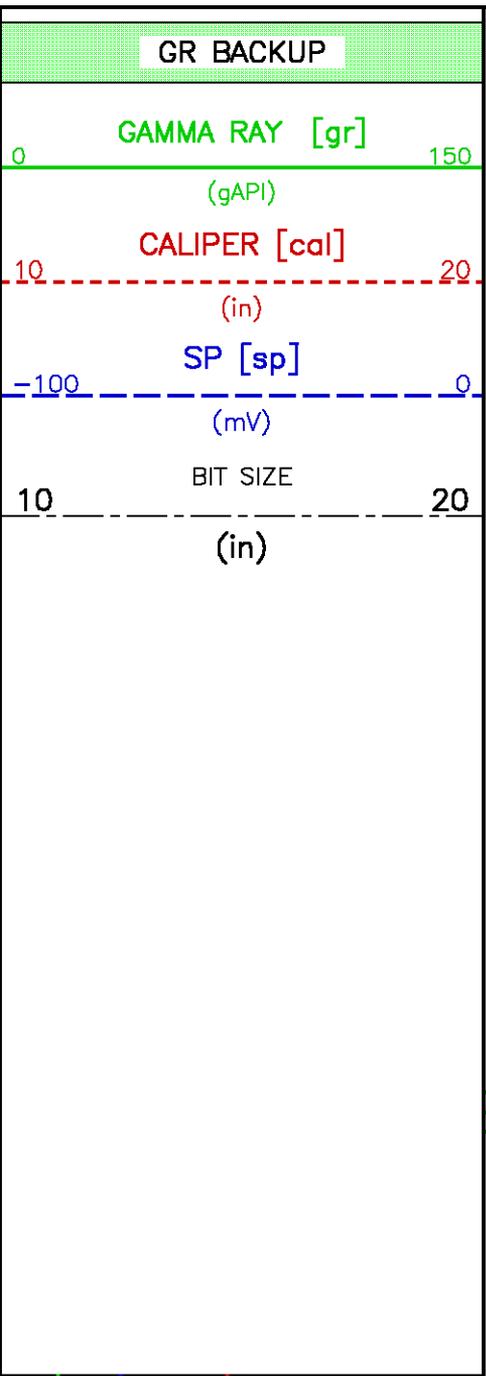
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Nov 15 12:36:34 2009	BIT SIZE
F1:BVOL	BVOL	Nov 15 12:36:34 2009	BOREHOLE VOLUME
F1:CAL	CAL	Nov 15 12:36:34 2009	CALIPER
F1:CVOL	CVOL	Nov 15 12:36:34 2009	CEMENT VOLUME
F1:GR	GR	Nov 15 12:36:34 2009	GAMMA RAY
F1:M2R1	M2R1	Nov 15 12:36:34 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 10 INCH
F1:M2R2	M2R2	Nov 15 12:36:34 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 20 INCH
F1:M2R3	M2R3	Nov 15 12:36:34 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 30 INCH
F1:M2R6	M2R6	Nov 15 12:36:34 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 60 INCH
F1:M2R9	M2R9	Nov 15 12:36:34 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 90 INCH
F1:M2RX	M2RX	Nov 15 12:36:34 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 120 INCH
F1:SP	SP	Nov 15 12:36:34 2009	SPONTANEOUS POTENTIAL
F1:TEN	TEN	Nov 15 12:36:34 2009	DIFFERENTIAL TENSION

CURVE MEASURE POINT OFFSET

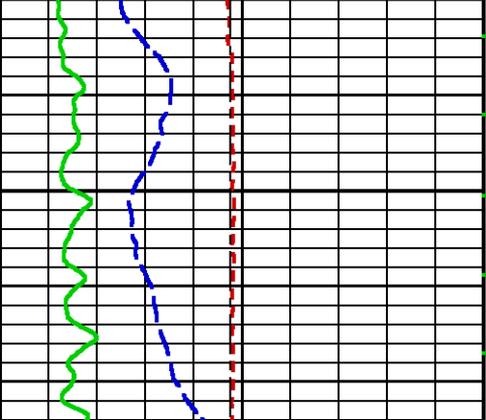
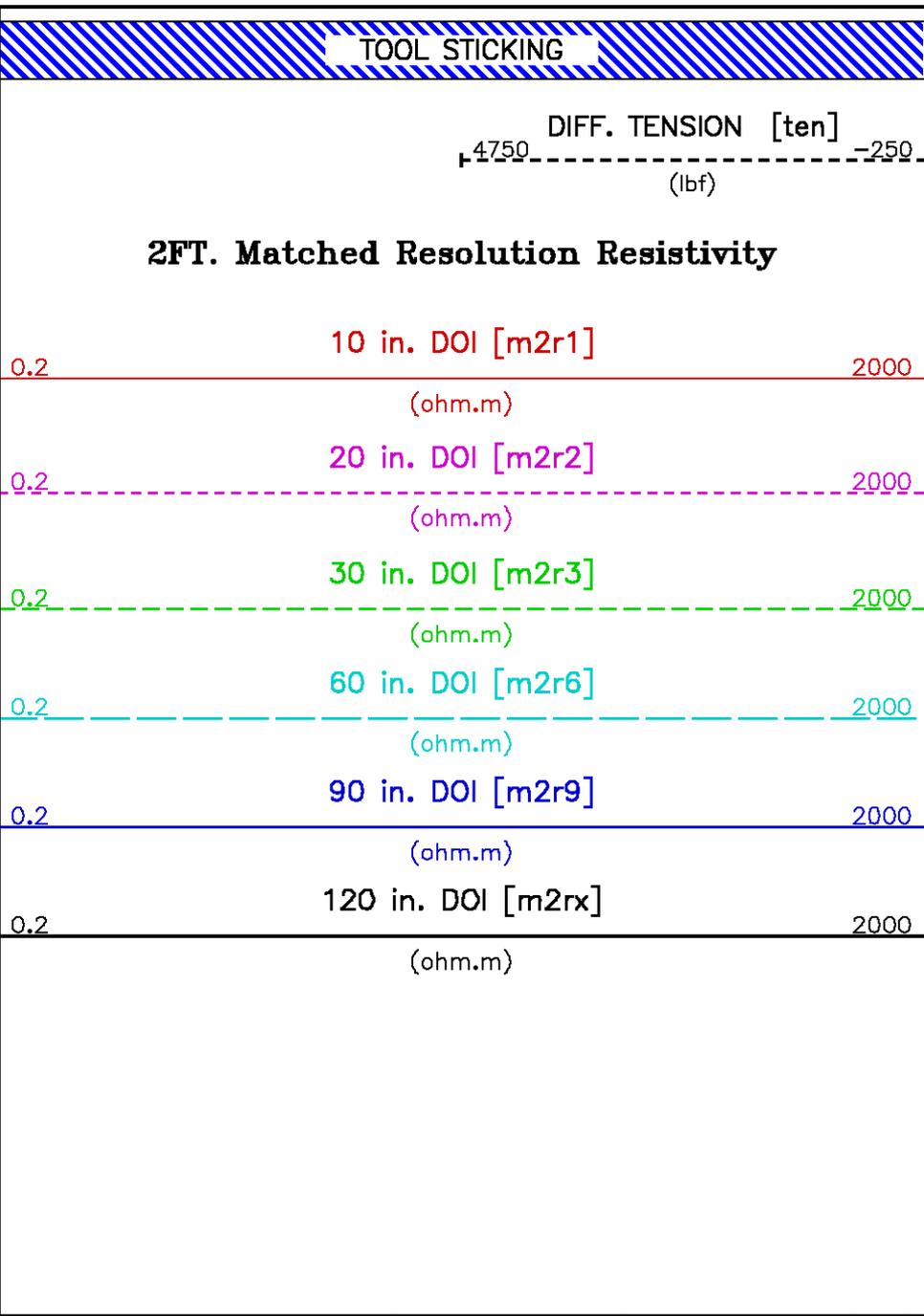
CURVE	OFFSET (ft)						
BIT	0.00	M2R1	54.75	M2R6	54.75	SP	60.75
CAL	81.50	M2R2	54.75	M2R9	54.75	TEN	0.00
GR	99.00	M2R3	54.75	M2RX	54.75		

Presentation : cpu1:/dat1a/575995/HDIL_REPEAT.pdf [5"/100' Scale]
 Plot Interval : 2080 - 2310.25 Feet

Data File 1 : F1 : cpu1:/dat1a/575995/k771103.aff
 Created On : Nov 15 12:36:34 2009
 Company : SIERRA GEOTHERMAL POWER, INC.
 Well : ALUM 25-29
 Field : ALUM
 File Interval : 1961.25 - 2310.25 Feet
 Oct : k7711

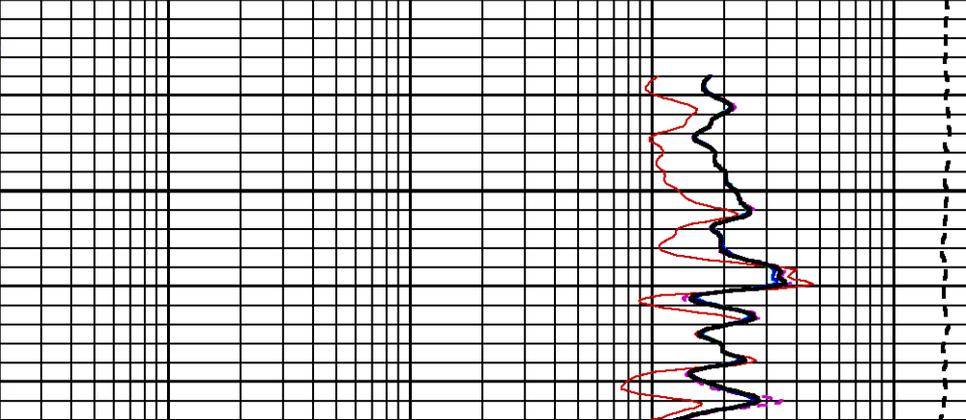


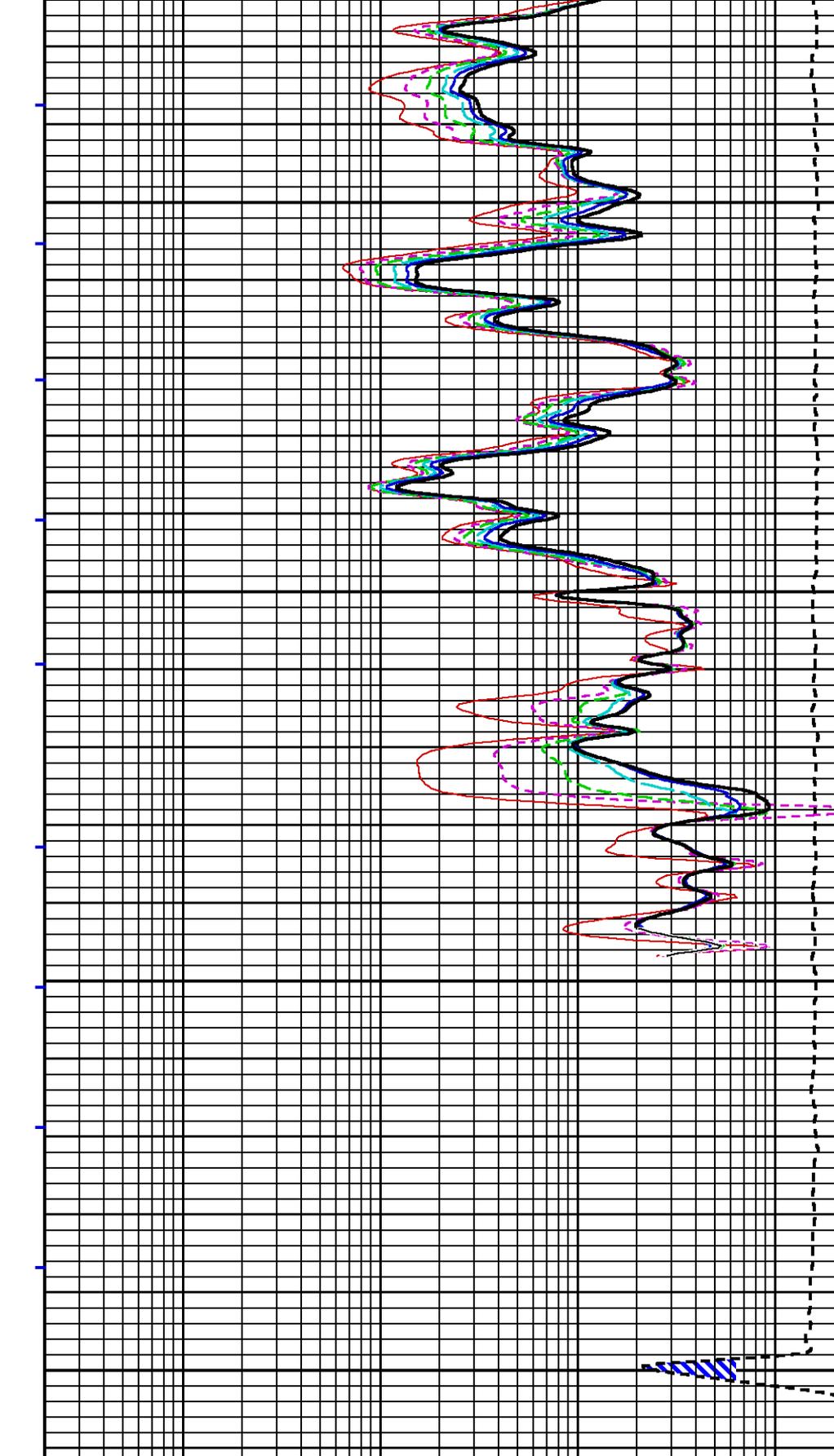
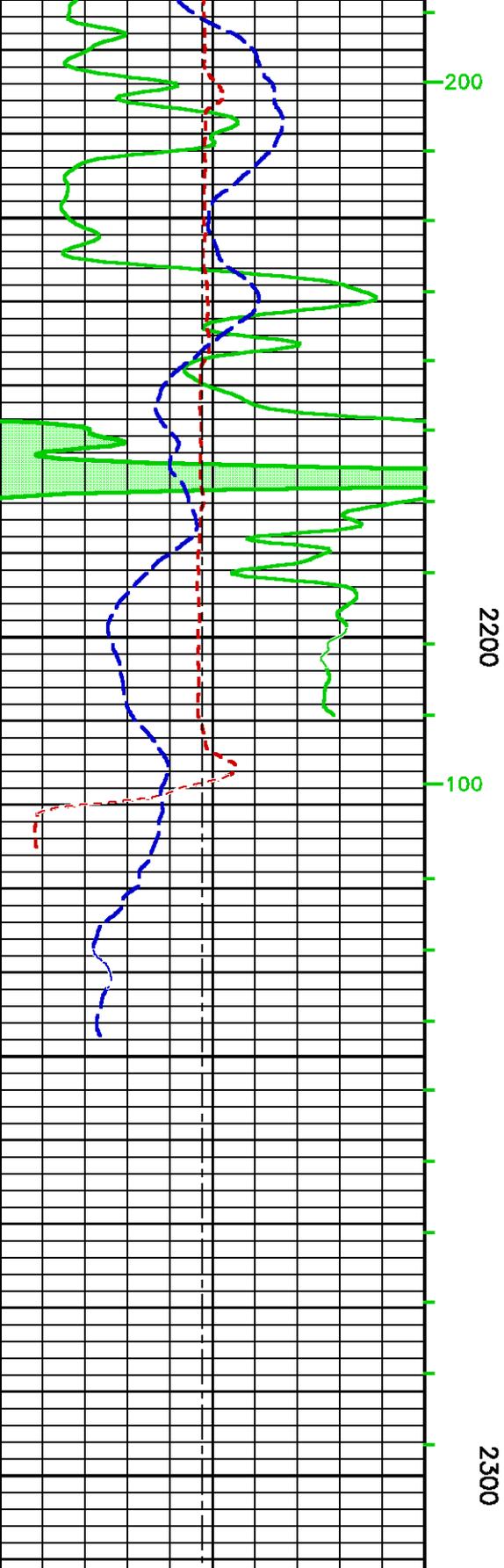
FEET



2100

100

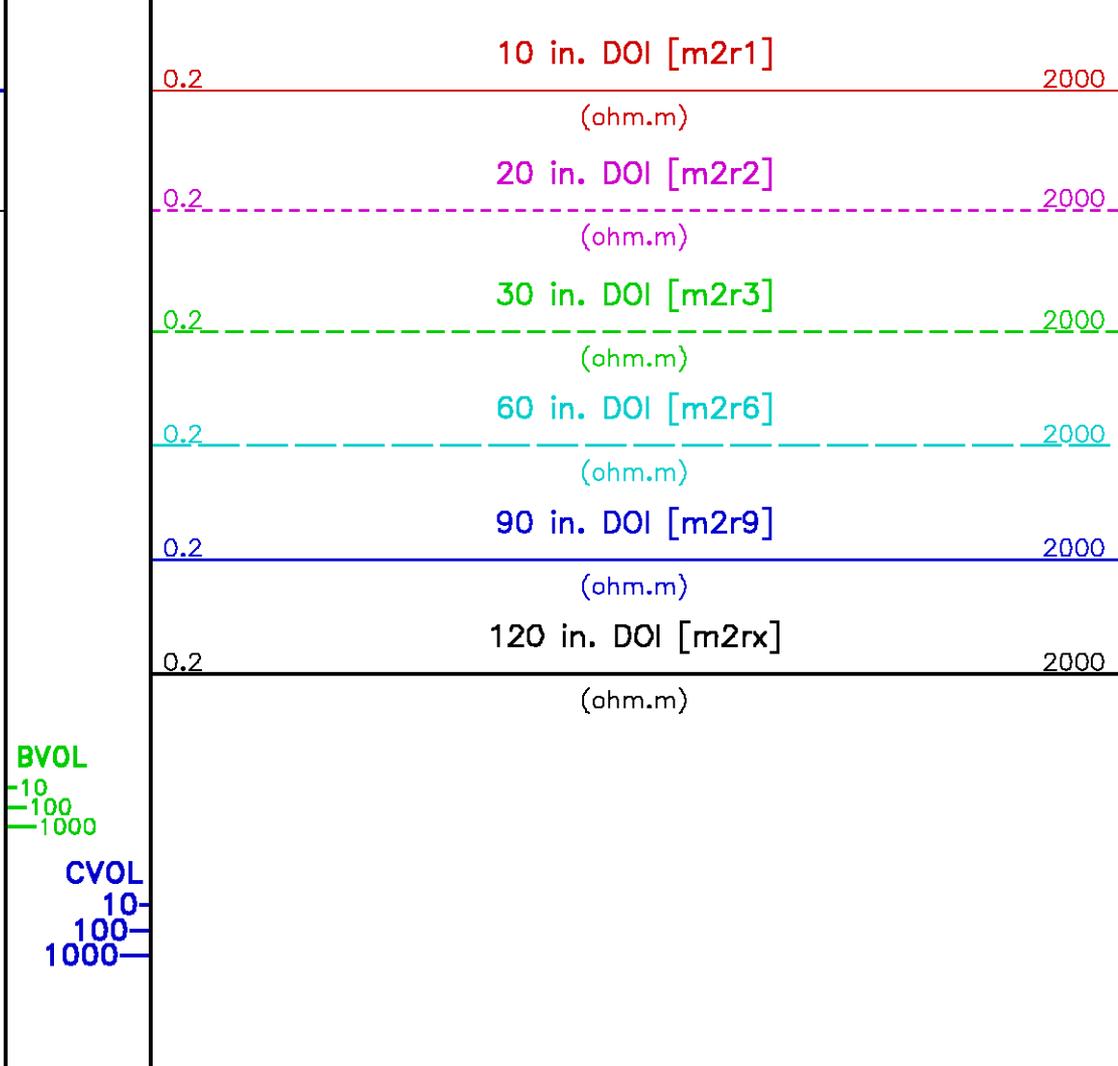




0 150

10 20

4750 -250



BVOL

10

100

1000

CVOL

10

100

1000

CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/575995/k771l.tp1

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 10203000 DATE/TIME PERFORMED: Sun Oct 25 14:28:31 2009

UNIT #: 3885TD ML4232 CALB JIG #: 4702NK DA-321

	BACKGROUND CALBRTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	269.02	1162.96	0.168	45.14	195.14
		830.0 980.0			150

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 10203000 DATE/TIME PERFORMED: Sun Oct 25 14:33:28 2009

UNIT #: 3885TD ML4232 VERI JIG #: 4702NK DA-321

	BACKGROUND CALBRTR ON (cts/s)	MULT	BACKGROUND CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	269.44	0.168	45.21	154.76
	1191.73		189.97	140.00 180.00

GR BEFORE LOG VERIFICATION SUMMARY

Coil 2 R	0.003 -1.000 1.000 -0.200 0.200	0.003 -0.200 0.200 -0.100 0.100	-0.000 -0.100 0.100 -0.100 0.100	-0.002 -0.100 0.100 -0.100 0.100	-0.002 -0.100 0.100 -0.100 0.100	-0.002 -0.100 0.100 -0.100 0.100	-0.002 -0.100 0.100 -0.100 0.100	0.001 -0.100 0.100 -0.100 0.100
Coil 2 Q	-0.005 -1.000 1.000	-0.002 -0.200 0.200	0.002 -0.100 0.100	0.002 -0.100 0.100	-0.003 -0.100 0.100	-0.003 -0.100 0.100	-0.004 -0.100 0.100	-0.004 -0.100 0.100
Coil 3 R	0.002 -0.100 0.100	0.003 -0.100 0.100	-0.001 -0.100 0.100	0.001 -0.100 0.100	0.000 -0.100 0.100	-0.002 -0.100 0.100	0.001 -0.100 0.100	0.001 -0.100 0.100
Coil 3 Q	-0.008 -0.500 0.500	-0.003 -0.200 0.200	-0.003 -0.100 0.100	0.001 -0.100 0.100	0.000 -0.100 0.100	0.001 -0.100 0.100	0.002 -0.100 0.100	-0.000 -0.100 0.100
Coil 4 R	-0.008 -0.200 0.200	-0.004 -0.200 0.200	-0.003 -0.200 0.200	-0.001 -0.200 0.200	-0.006 -0.200 0.200	-0.003 -0.200 0.200	-0.003 -0.200 0.200	0.001 -0.200 0.200
Coil 4 Q	-0.007 -1.000 1.000	0.000 -0.400 0.400	-0.004 -0.200 0.200	-0.004 -0.200 0.200	-0.002 -0.200 0.200	-0.003 -0.200 0.200	-0.005 -0.200 0.200	-0.004 -0.200 0.200
Coil 5 R	-0.003 -0.400 0.400	0.001 -0.400 0.400	-0.002 -0.400 0.400	0.003 -0.400 0.400	0.004 -0.400 0.400	0.008 -0.400 0.400	-0.007 -0.400 0.400	-0.012 -0.400 0.400
Coil 5 Q	-0.002 -2.000 2.000	0.001 -0.800 0.800	0.010 -0.400 0.400	0.004 -0.400 0.400	0.005 -0.400 0.400	-0.002 -0.400 0.400	-0.002 -0.400 0.400	0.001 -0.400 0.400
Coil 6 R	-0.034 -1.000 1.000	-0.008 -1.000 1.000	-0.009 -1.000 1.000	-0.012 -1.000 1.000	-0.008 -1.000 1.000	-0.007 -1.000 1.000	0.008 -1.000 1.000	0.011 -1.000 1.000
Coil 6 Q	-0.010 -5.000 5.000	0.001 -2.000 2.000	0.024 -1.000 1.000	-0.013 -1.000 1.000	0.003 -1.000 1.000	-0.016 -1.000 1.000	-0.011 -1.000 1.000	-0.001 -1.000 1.000

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	126.11 100.00 150.00	124.84 100.00 150.00	122.24 98.00 150.00	118.48 98.00 140.00	113.56 92.00 140.00	107.91 87.00 130.00	101.28 82.00 120.00	93.90 78.00 110.00
Coil 0 P	7.448 6.000 9.000	23.500 19.000 28.000	39.301 32.000 47.000	54.997 44.000 66.000	70.700 57.000 85.000	86.260 70.000 100.000	101.908 82.000 120.000	117.269 88.000 140.000
Coil 1 M	219.09 180.00 270.00	216.78 180.00 270.00	212.05 170.00 280.00	205.26 170.00 250.00	196.38 180.00 250.00	186.08 160.00 230.00	174.19 150.00 220.00	161.17 140.00 200.00
Coil 1 P	7.549 6.000 9.000	23.800 19.000 28.000	39.808 32.000 48.000	55.893 45.000 67.000	71.569 57.000 86.000	87.237 70.000 110.000	102.964 83.000 120.000	118.412 88.000 140.000
Coil 2 M	444.93 380.00 540.00	440.18 380.00 540.00	430.40 350.00 530.00	416.54 340.00 510.00	398.44 330.00 500.00	377.61 310.00 470.00	353.39 300.00 440.00	327.57 270.00 410.00
Coil 2 P	7.630 6.000 9.000	24.032 19.000 29.000	40.155 32.000 48.000	56.176 45.000 67.000	72.143 58.000 87.000	87.938 71.000 110.000	103.734 84.000 130.000	119.260 98.000 140.000
Coil 3 M	719.57 590.00 850.00	712.84 580.00 870.00	699.30 570.00 850.00	679.20 550.00 850.00	652.25 530.00 800.00	620.51 500.00 780.00	582.24 470.00 710.00	540.11 440.00 850.00
Coil 3 P	7.681 6.000 10.000	24.254 20.000 29.000	40.614 33.000 49.000	56.915 48.000 69.000	73.300 59.000 89.000	89.566 72.000 110.000	105.945 85.000 130.000	122.089 98.000 150.000
Coil 4 M	1119.8 800.0 1400.0	1109.4 800.0 1300.0	1088.0 900.0 1300.0	1057.0 850.0 1300.0	1015.3 800.0 1200.0	966.7 800.0 1200.0	908.8 750.0 1100.0	844.8 700.0 1000.0
Coil 4 P	7.720 6.000 10.000	24.307 20.000 30.000	40.679 33.000 50.000	56.997 48.000 70.000	73.353 60.000 90.000	89.590 73.000 110.000	105.946 88.000 130.000	122.061 99.000 150.000
Coil 5 M	2304.7 1900.0 2800.0	2277.9 1800.0 2800.0	2223.1 1800.0 2700.0	2146.4 1800.0 2600.0	2046.6 1700.0 2500.0	1933.6 1600.0 2400.0	1803.4 1500.0 2200.0	1663.5 1400.0 2100.0
Coil 5 P	8.193 6.000 10.000	25.728 20.000 31.000	42.971 34.000 51.000	60.080 48.000 72.000	77.113 62.000 93.000	93.951 76.000 110.000	110.822 89.000 130.000	127.394 100.000 150.000
Coil 6 M	6001.9 4700.0 7100.0	5935.7 4700.0 7000.0	5801.5 4600.0 6900.0	5609.6 4400.0 6800.0	5357.7 4200.0 6400.0	5064.4 4000.0 6000.0	4723.8 3700.0 5600.0	4353.1 3400.0 5100.0
Coil 6 P	8.002 7.000 10.000	25.529 22.000 32.000	42.744 36.000 54.000	59.822 51.000 76.000	76.907 65.000 98.000	93.808 80.000 120.000	110.766 84.000 140.000	127.411 110.000 160.000

AM Factor	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	403 -200 800	-123 -500 100	-183 -600 0	-194 -800 0	-196 -500 0	-195 -500 0	-193 -500 0	-192 -500 0
Coil 0 Q	2218 -3000 8000	788 -1000 2000	437 -1000 1200	268 -500 800	166 -400 600	95 -400 500	39 -400 400	-6 -400 300
Coil 1 R	534 450 650	64 20 115	8 -30 45	-12 -50 20	-21 -55 0	-25 -60 0	-27 -60 0	-29 -60 0
Coil 1 Q	1747 0 2500	656 0 900	400 0 800	284 0 400	217 0 300	173 0 250	141 0 200	117 0 200
Coil 2 R	179.5 140.0 230.0	24.8 0.0 51.0	5.8 -10.0 25.0	-0.5 -15.0 15.0	-2.9 -16.0 10.0	-4.5 -18.0 7.0	-5.2 -16.0 5.0	-5.7 -16.0 3.0
Coil 2 Q	542.4 -200.0 1000.0	207.7 0.0 350.0	130.1 0.0 220.0	95.8 0.0 180.0	76.6 0.0 130.0	64.8 0.0 110.0	56.7 0.0 100.0	51.2 0.0 90.0
Coil 3 R	44.9 37.0 82.0	4.5 0.0 12.0	-0.0 -3.0 8.0	-1.6 -4.0 4.0	-2.5 -5.0 2.0	-3.0 -5.0 1.0	-2.8 -8.0 1.0	-2.3 -8.0 1.0
Coil 3 Q	98.3 -140.0 280.0	41.2 -40.0 100.0	29.0 -20.0 70.0	24.7 -10.0 60.0	23.0 -10.0 50.0	22.6 -10.0 50.0	22.8 -10.0 50.0	24.0 -10.0 50.0
Coil 4 R	11.05 2.00 18.00	0.28 -3.00 8.00	-0.99 -3.50 3.00	-1.15 -3.90 2.00	-1.71 -4.20 2.00	-1.53 -4.50 2.00	-1.57 -4.70 2.00	-1.67 -5.00 2.00
Coil 4 Q	17.74 -100.00 100.00	10.59 -30.00 50.00	10.33 -20.00 40.00	11.57 -10.00 40.00	13.29 -10.00 40.00	15.36 -10.00 45.00	17.53 -10.00 50.00	19.54 -10.00 60.00
Coil 5 R	1.92 -2.00 5.80	-0.70 -3.20 2.40	-1.03 -4.50 3.10	-0.88 -4.70 3.20	-1.02 -4.80 3.20	-0.91 -5.00 3.30	-1.03 -5.20 3.40	-1.15 -5.40 3.50
Coil 5 Q	2.11 -80.00 70.00	3.90 -20.00 30.00	5.99 -20.00 30.00	7.76 -20.00 35.00	10.28 -20.00 45.00	12.41 -20.00 50.00	14.72 -20.00 60.00	16.85 -30.00 70.00
Coil 6 R	-1.37 -4.80 1.00	-0.80 -5.70 3.80	-0.70 -6.80 4.90	-0.50 -8.90 5.40	-0.64 -7.30 5.80	-0.63 -7.80 6.00	-0.64 -7.70 6.10	-0.64 -7.90 6.30

Coil 6 Q	1.44	3.05	5.27	7.39	9.72	11.89	14.17	16.41
	-30.00 30.00	-20.00 25.00	-20.00 35.00	-30.00 50.00	-35.00 60.00	-40.00 70.00	-50.00 80.00	-80.00 100.00
MM Factor	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	1.011	1.009	1.005	1.004	1.003	1.002	1.002	1.003
	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 0 P	0.276	0.248	0.311	0.219	0.145	0.105	0.047	-0.034
	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000
Coil 1 M	0.991	0.989	0.984	0.984	0.982	0.981	0.981	0.981
	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 1 P	0.179	0.280	0.337	0.327	0.319	0.238	0.218	0.188
	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000
Coil 2 M	1.017	1.014	1.013	1.012	1.012	1.011	1.009	1.009
	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 2 P	0.165	0.143	0.146	0.188	0.231	0.254	0.286	0.275
	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000
Coil 3 M	1.021	1.020	1.020	1.019	1.019	1.019	1.019	1.018
	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	0.167	0.103	0.118	0.114	0.123	0.075	0.129	0.106
	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000
Coil 4 M	1.030	1.029	1.028	1.027	1.027	1.028	1.025	1.025
	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	0.156	0.135	0.135	0.176	0.182	0.165	0.176	0.122
	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000
Coil 5 M	1.032	1.031	1.031	1.030	1.029	1.030	1.029	1.030
	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	0.075	0.002	0.039	0.012	-0.059	-0.167	-0.161	-0.194
	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000
Coil 6 M	1.027	1.028	1.026	1.024	1.023	1.029	1.029	1.028
	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 6 P	0.054	0.213	0.209	0.288	0.218	0.135	0.199	0.067
	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000	-2.000 2.000

PARMS TCID 0 TCID 1 Cal Temp T Factor
(degF)
ID# 1.465 0.776 70.5 1.04

HDIL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1515MA 069832 DATE/TIME PERFORMED: Sun Nov 15 12:11:34 2009 DAYS SINCE CAL: 16

UNIT #: 3885TD ML4232

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	0.002	0.003	0.002	-0.001	-0.004	-0.002	-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 0 Q	0.005	0.007	0.005	0.004	0.002	0.001	-0.002	-0.002
	-1.000 1.000	-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
Coil 1 R	0.005	0.006	0.006	0.003	0.000	-0.002	-0.005	-0.005
	-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	0.004	0.005	0.006	0.007	0.007	0.005	0.001	-0.002
	-1.000 1.000	-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
Coil 2 R	0.007	0.005	-0.001	-0.002	-0.004	-0.003	-0.001	0.002
	-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	-0.004	0.000	0.003	0.004	-0.001	-0.003	-0.005	-0.006
	-1.000 1.000	-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
Coil 3 R	0.004	-0.001	0.001	-0.000	-0.000	0.001	0.001	0.002
	-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	-0.002	-0.002	-0.003	-0.002	-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 4 R	-0.009	-0.001	0.001	0.002	0.000	0.001	-0.002	0.001
	-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	-0.005	0.004	-0.001	-0.003	-0.001	-0.002	-0.004	-0.004
	-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
Coil 5 R	-0.004	-0.000	-0.008	-0.004	0.004	-0.008	-0.007	-0.011
	-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	0.004	0.006	-0.000	0.009	0.011	0.006	0.014	0.003
	-2.000 2.000	-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
Coil 6 R	-0.024	-0.018	0.017	-0.029	-0.010	0.021	0.010	0.015
	-1.000 1.000	-1.000 1.000	-1.000 1.000	-1.000 1.000	-1.000 1.000	-1.000 1.000	-1.000 1.000	-1.000 1.000
Coil 6 Q	0.022	0.035	0.007	-0.005	-0.015	-0.015	-0.011	-0.002
	-5.000 5.000	-2.000 2.000	-1.000 1.000	-1.000 1.000	-1.000 1.000	-1.000 1.000	-1.000 1.000	-1.000 1.000

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	126.16	124.85	122.17	118.38	113.31	107.51	100.69	93.16

Coil 0 M	100.00 150.00 7.500 6.000 8.000	100.00 150.00 23.653 19.000 28.000	100.00 150.00 39.529 32.000 47.000	98.00 140.00 55.331 44.000 66.000	92.00 140.00 71.102 57.000 85.000	87.00 130.00 86.714 70.000 100.000	82.00 120.00 102.344 82.000 120.000	78.00 110.00 117.710 85.000 140.000
Coil 1 M	180.00 270.00 219.21 180.00 270.00	180.00 270.00 216.81 180.00 270.00	170.00 280.00 211.96 170.00 280.00	170.00 250.00 205.05 170.00 250.00	180.00 250.00 195.90 180.00 250.00	160.00 230.00 185.41 160.00 230.00	150.00 220.00 173.23 150.00 220.00	140.00 200.00 159.96 140.00 200.00
Coil 1 P	6.000 9.000 7.602 6.000 9.000	19.000 28.000 23.960 19.000 28.000	32.000 48.000 40.057 32.000 48.000	45.000 67.000 56.038 45.000 67.000	57.000 86.000 71.968 57.000 86.000	70.000 110.000 87.702 70.000 110.000	83.000 120.000 103.431 83.000 120.000	98.000 140.000 118.869 98.000 140.000
Coil 2 M	380.00 540.00 445.02 380.00 540.00	380.00 540.00 440.05 380.00 540.00	350.00 530.00 429.93 350.00 530.00	340.00 510.00 415.75 340.00 510.00	330.00 500.00 397.15 330.00 500.00	310.00 470.00 376.09 310.00 470.00	300.00 440.00 351.53 300.00 440.00	270.00 410.00 324.89 270.00 410.00
Coil 2 P	6.000 9.000 7.693 6.000 9.000	19.000 29.000 24.201 19.000 29.000	32.000 48.000 40.412 32.000 48.000	45.000 67.000 56.530 45.000 67.000	58.000 87.000 72.538 58.000 87.000	71.000 110.000 88.364 71.000 110.000	84.000 130.000 104.210 84.000 130.000	98.000 140.000 119.682 98.000 140.000
Coil 3 M	590.00 850.00 720.99 590.00 850.00	580.00 870.00 713.93 580.00 870.00	570.00 850.00 699.91 570.00 850.00	550.00 850.00 679.46 550.00 850.00	530.00 800.00 651.60 530.00 800.00	500.00 760.00 618.87 500.00 760.00	470.00 710.00 579.88 470.00 710.00	440.00 690.00 536.64 440.00 690.00
Coil 3 P	6.000 10.000 7.743 6.000 10.000	20.000 29.000 24.423 20.000 29.000	33.000 49.000 40.876 33.000 49.000	48.000 69.000 57.274 48.000 69.000	59.000 89.000 73.740 59.000 89.000	72.000 110.000 90.038 72.000 110.000	85.000 130.000 106.425 85.000 130.000	98.000 150.000 122.578 98.000 150.000
Coil 4 M	900.0 1400.0 1121.4 900.0 1400.0	900.0 1300.0 1110.4 900.0 1300.0	900.0 1300.0 1088.2 900.0 1300.0	850.0 1300.0 1056.4 850.0 1300.0	800.0 1200.0 1013.4 800.0 1200.0	800.0 1200.0 963.4 800.0 1200.0	750.0 1100.0 904.2 750.0 1100.0	700.0 1000.0 839.0 700.0 1000.0
Coil 4 P	6.000 10.000 7.783 6.000 10.000	20.000 30.000 24.479 20.000 30.000	33.000 50.000 40.948 33.000 50.000	48.000 70.000 57.346 48.000 70.000	60.000 90.000 73.767 60.000 90.000	73.000 110.000 90.051 73.000 110.000	86.000 130.000 106.418 86.000 130.000	99.000 150.000 122.509 99.000 150.000
Coil 5 M	1900.0 2900.0 2307.9 1900.0 2900.0	1800.0 2800.0 2280.0 1800.0 2800.0	1800.0 2700.0 2223.7 1800.0 2700.0	1800.0 2600.0 2145.3 1800.0 2600.0	1700.0 2500.0 2043.3 1700.0 2500.0	1600.0 2400.0 1927.4 1600.0 2400.0	1500.0 2200.0 1795.0 1500.0 2200.0	1400.0 2100.0 1651.7 1400.0 2100.0
Coil 5 P	6.000 10.000 8.256 6.000 10.000	20.000 31.000 25.907 20.000 31.000	34.000 51.000 43.247 34.000 51.000	48.000 72.000 60.459 48.000 72.000	62.000 93.000 77.558 62.000 93.000	76.000 110.000 94.461 76.000 110.000	89.000 130.000 111.331 89.000 130.000	100.000 150.000 127.912 100.000 150.000
Coil 6 M	4700.0 7100.0 6005.1 4700.0 7100.0	4700.0 7000.0 5935.4 4700.0 7000.0	4600.0 6900.0 5797.4 4600.0 6900.0	4400.0 6600.0 5601.0 4400.0 6600.0	4200.0 6400.0 5342.2 4200.0 6400.0	4000.0 6000.0 5045.9 4000.0 6000.0	3700.0 5600.0 4699.5 3700.0 5600.0	3400.0 5100.0 4320.9 3400.0 5100.0
Coil 6 P	7.000 10.000 8.088 7.000 10.000	22.000 32.000 25.715 22.000 32.000	36.000 54.000 43.013 36.000 54.000	51.000 76.000 60.192 51.000 76.000	65.000 98.000 77.329 65.000 98.000	80.000 120.000 94.263 80.000 120.000	94.000 140.000 111.249 94.000 140.000	110.000 180.000 127.896 110.000 180.000

HDIL AFTER LOG VERIFICATION SUMMARY

TOOL #: **1515MA 069832** DATE/TIME PERFORMED: **Sun Nov 15 14:16:30 2009** DAYS SINCE CAL: **16**

UNIT #: **3885TD ML4232**

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	0.004 -0.078 0.082	0.004 -0.057 0.063	0.002 -0.028 0.032	-0.000 -0.031 0.029	-0.003 -0.034 0.026	-0.002 -0.032 0.028	-0.002 -0.031 0.028	-0.001 -0.031 0.028
Coil 0 Q	0.006 -0.035 0.045	0.009 -0.113 0.127	0.006 -0.025 0.035	0.004 -0.028 0.034	0.002 -0.028 0.032	-0.000 -0.029 0.031	-0.003 -0.032 0.028	-0.003 -0.032 0.028
Coil 1 R	0.007 -0.075 0.085	0.009 -0.044 0.056	0.006 -0.024 0.036	0.005 -0.027 0.033	-0.000 -0.030 0.030	-0.002 -0.032 0.028	-0.004 -0.035 0.025	-0.002 -0.035 0.025
Coil 1 Q	0.003 -0.396 0.404	0.006 -0.095 0.105	0.005 -0.024 0.036	0.007 -0.023 0.037	0.007 -0.023 0.037	0.005 -0.025 0.035	0.003 -0.029 0.031	-0.002 -0.032 0.028
Coil 2 R	0.004 -0.083 0.077	0.004 -0.025 0.035	0.000 -0.031 0.029	-0.003 -0.032 0.028	-0.002 -0.034 0.026	-0.002 -0.033 0.027	0.000 -0.031 0.029	0.002 -0.028 0.032
Coil 2 Q	-0.003 -0.354 0.346	0.000 -0.100 0.100	0.001 -0.027 0.033	0.002 -0.026 0.034	-0.001 -0.031 0.029	-0.005 -0.033 0.027	-0.003 -0.035 0.025	-0.004 -0.036 0.024
Coil 3 R	0.002 -0.036 0.044	0.003 -0.041 0.039	0.001 -0.039 0.041	0.001 -0.040 0.040	-0.001 -0.040 0.040	0.004 -0.039 0.041	-0.000 -0.039 0.041	0.000 -0.036 0.042
Coil 3 Q	-0.002 -0.206 0.184	-0.001 -0.083 0.077	-0.001 -0.037 0.043	-0.001 -0.042 0.038	0.000 -0.042 0.038	0.002 -0.043 0.037	-0.001 -0.042 0.038	-0.001 -0.041 0.039
Coil 4 R	-0.007 -0.089 0.051	-0.004 -0.061 0.059	-0.000 -0.059 0.061	0.002 -0.058 0.062	-0.003 -0.060 0.060	0.002 -0.059 0.061	0.002 -0.062 0.058	0.001 -0.059 0.061
Coil 4 Q	-0.007 -0.305 0.295	-0.002 -0.098 0.104	0.002 -0.081 0.059	0.005 -0.063 0.057	0.004 -0.061 0.059	-0.003 -0.062 0.058	-0.006 -0.064 0.056	-0.003 -0.064 0.056
Coil 5 R	-0.003 -0.124 0.116	0.004 -0.120 0.120	-0.002 -0.128 0.112	0.004 -0.124 0.116	0.002 -0.118 0.124	-0.005 -0.128 0.112	-0.005 -0.127 0.113	-0.010 -0.131 0.108
Coil 5 Q	-0.006 -0.596 0.604	-0.003 -0.244 0.256	0.004 -0.120 0.120	0.005 -0.111 0.129	0.010 -0.109 0.131	0.004 -0.114 0.128	0.006 -0.108 0.134	0.004 -0.117 0.123
Coil 6 R	-0.001 -0.324 0.276	-0.010 -0.318 0.282	0.012 -0.283 0.317	-0.014 -0.329 0.271	-0.010 -0.310 0.290	-0.003 -0.278 0.321	0.002 -0.280 0.310	0.010 -0.285 0.315
Coil 6 Q	-0.029 -1.478 1.522	-0.023 -0.565 0.635	-0.012 -0.293 0.307	-0.011 -0.305 0.295	-0.011 -0.315 0.285	-0.031 -0.315 0.285	-0.014 -0.311 0.289	-0.001 -0.302 0.298

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	126.35 123.84 128.68	125.01 122.38 127.35	122.29 119.72 124.61	118.43 116.02 120.75	113.31 111.04 115.57	107.41 105.36 109.68	100.54 98.88 102.71	92.96 91.30 95.02
Coil 0 P	7.539 4.500 10.800	23.773 20.653 26.633	39.735 36.529 42.329	55.584 52.331 58.331	71.424 68.102 74.102	87.081 83.714 89.714	102.774 99.344 105.344	118.209 114.710 120.710
Coil 1 M	219.47 214.82 223.59	217.05 212.48 221.15	212.07 207.72 216.20	205.09 200.95 209.15	195.87 191.98 199.82	185.20 181.70 189.12	172.90 169.77 178.70	159.51 156.78 163.16
Coil 1 P	7.640 4.602 10.602	24.081 20.960 26.960	40.249 37.057 43.057	56.294 53.038 59.038	72.283 68.968 74.968	88.072 84.702 90.702	103.878 100.431 106.431	119.352 115.869 121.869
Coil 2 M	445.29 436.12 453.92	440.17 431.25 448.85	429.89 421.33 438.53	415.47 407.44 424.07	396.71 389.21 405.10	375.29 368.57 383.61	350.46 344.50 358.56	323.79 318.39 331.39
Coil 2 P	7.738 4.693 10.693	24.335 21.201 27.201	40.629 37.412 43.412	56.800 53.530 59.530	72.878 69.538 75.538	88.752 85.384 91.364	104.601 101.210 107.210	120.201 116.682 122.682

Coil 3 M	722.36 706.57 735.41	715.12 699.65 728.21	700.73 685.91 715.90	679.91 665.87 693.05	651.75 638.57 664.63	618.46 606.48 631.25	579.01 568.28 591.47	535.51 525.91 547.38
Coil 3 P	7.785 4.743 10.743	24.551 21.423 27.423	41.083 37.976 43.978	57.538 54.274 60.274	74.059 70.740 76.740	90.427 87.038 93.038	106.853 103.425 109.425	123.067 119.578 125.578
Coil 4 M	1123.1 1089.0 1143.8	1111.8 1088.2 1132.6	1089.0 1066.4 1109.9	1056.5 1033.3 1077.5	1013.1 993.1 1033.7	962.3 944.1 982.6	902.7 886.1 922.3	836.7 822.3 855.8
Coil 4 P	7.827 4.783 10.783	24.608 21.479 27.479	41.156 37.946 43.948	57.612 54.346 60.346	74.094 70.767 76.767	90.415 87.051 93.051	106.819 103.418 109.418	122.989 119.509 125.509
Coil 5 M	2311.8 2261.8 2354.1	2283.4 2234.4 2325.6	2226.1 2179.3 2268.2	2146.4 2102.4 2188.3	2043.6 2002.4 2084.1	1926.1 1886.9 1968.0	1792.4 1759.1 1830.9	1647.9 1618.7 1684.8
Coil 5 P	8.297 5.256 11.256	26.036 22.907 28.907	43.459 40.247 46.247	60.724 57.459 63.459	77.897 74.558 80.558	94.845 91.461 97.461	111.785 108.331 114.331	128.405 124.912 130.912
Coil 6 M	6009.7 5885.0 6125.2	5938.2 5818.7 6054.1	5796.8 5681.4 5913.3	5596.8 5488.9 5713.0	5337.6 5235.3 5449.0	5035.0 4945.0 5148.8	4686.5 4605.5 4793.5	4307.5 4234.4 4407.3
Coil 6 P	8.135 5.088 11.088	25.841 22.715 28.715	43.213 40.013 46.013	60.441 57.192 63.192	77.630 74.329 80.329	94.629 91.263 97.263	111.643 108.249 114.249	128.369 124.896 130.896

INSTRUMENT CONFIGURATION

Source File: /dat1a/575995/k771f-tdg

CABLEHEAD

Series : CABL338
Mnemonic : CBLH
Diameter : 3.38"
Weight : 24 lbs
Length : 5.50'

SWIVEL

Series : 3944XD
Mnemonic : SWVL

TTRM SUB

Series : 3981XA
Mnemonic : TTRM
Diameter : 3.63"

WTS COMMON REMOTE

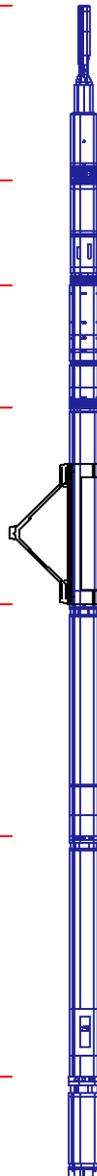
Series : 3514XB
Mnemonic : WTS
Diameter : 3.63"
Weight : 126 lbs
Length : 6.36'

DIGITAL SPECTRALOG

Series : 1329XA
Mnemonic : DSL
Diameter : 3.63"
Weight : 130 lbs
Length : 7.31'

COMPENSATED NEUTRON

Series : 2446XA
Mnemonic : CN
Diameter : 3.63"
Weight : 150 lbs
Length : 7.59'



123.98'

CABLEHEAD TOP 121.23'

TEMP MP 112.70'
RM MP 112.45'

GR MP 99.24'

LSN MP 92.68'
SSN MP 92.29'

ZENITHLESS
Series : 2234XA
Mnemonic : ZDL
Diameter : 4.88"
Weight : 360 lbs
Length : 11.22'

CAL MP 82.02'
LSD MP 81.31'
SSD MP 80.91'

KNUCKLE JOINT (DOUBLE)

Series : 3939XA
Mnemonic : KNJT
Diameter : 3.38"
Weight : 90 lbs

HIGH DEFINITION INDUCTION TOOL

Series : 1515XA
Mnemonic : HDIL
Diameter : 3.62"
Weight : 415 lbs
Length : 27.13'

SP MP 60.95'

XMTR MP 54.49'

DIGITAL ORIENTATION

Series : 4401XB
Mnemonic : ORIT
Diameter : 3.38"
Weight : 110 lbs
Length : 10.81'

ORIENT MP 36.24'

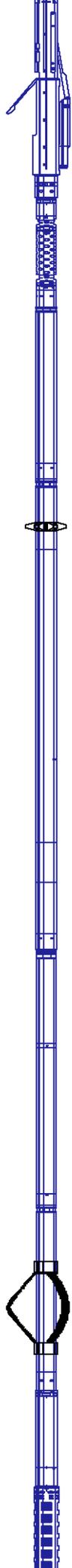
ARRAY ACOUSTILOG ELECTRONICS, 8 CHANNEL

Series : 1677EA
Mnemonic : XMAC
Diameter : 3.38"
Weight : 102 lbs
Length : 7.82'

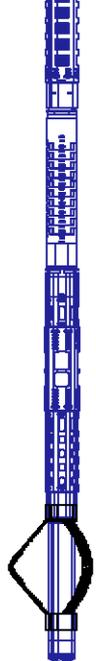
CROSS MULTIPOLE ARRAY ACOUSTILOG

Series : 1678MC
Mnemonic : XMF1
Diameter : 3.75"
Weight : 224 lbs
Length : 10.91'

R8 23.01'
R7 22.51'
R6 22.01'
R5 21.51'
R4 21.01'
R3 20.51'



KB 20.01'
R2 20.01'
R1 19.51'



SHEAR WAVE ACOUSTIC LOG
Series : 1678PB
Mnemonic : XMAC
Diameter : 3.63"
Weight : 135 lbs

MULTI-POLE ARRAY ACOUSTIC
Series : 1678BA
Mnemonic : XMAC
Diameter : 3.88"
Weight : 170 lbs
Length : 7.92'

MULTI-POLE ARRAY ACOUSTIC
Series : 1678FA
Mnemonic : MAC
Diameter : 3.38"
Weight : 58 lbs

BULL PLUG 3 3/8

MONOPOLE T2 11.01'
QUADRUPOLE T5 11.01'
X-DIPOLE T3 9.26'
Y-DIPOLE T4 9.26'
MONOPOLE T1 7.52'

0.00'

TOTAL LENGTH: 123.98'
TOTAL WEIGHT: 2257 lbs
MAX DIAMETER: 0'4.88"

 	COMPANY <u>SIERRA GEOTHERMAL POWER, INC.</u> WELL <u>ALUM 25-29</u> FIELD <u>ALUM</u> COUNTY <u>ESMERALDA</u> STATE <u>NEVADA</u>	FILE NO: _____ API NO: <u>27-009-90074</u>
	LOCATION: <u>2235.18' FSL & 938.11' FWL</u> <u>SW/C</u> SEC <u>29</u> TWP <u>1N</u> RGE <u>38.5E</u>	ELEVATIONS: KB <u>4919.57 FT</u> DF _____ GL <u>4903.57 FT</u>
	DATE <u>15-NOV-2009</u>	