

**BAKER
HUGHES**



**HIGH DEFINITION INDUCTION LOG BY
GAMMA RAY LOG
CALIPER LOG**

Baker Atlas

FILE NO: _____ COMPANY: **SIERRA GEOTHERMAL POWER, INC.**
 WELL: **ALUM 25-29**
 FIELD: **ALUM**
 COUNTY: **ESMERALDA** STATE: **NEVADA**
 APN NO: **27-008-90074**

Ver. 3.87 LOCATION: **SHE: 2235.18' FSL & 938.11' FNL**
SW/C
 SEC **29** TWP **1N** RGE **28.5 E**
 TIGHT HOLE OTHER SERVICES:
ZK/CN
XUAC
STAR/DBLL
TEMP

PERMANENT DATUM **G.L.** ELEVATION **4803.57 FT**
 LOG MEASURED FROM **K.B.** **18.0 FT** ABOVE P.D.
 DRILL MEAS. FROM **K.B.** ELEVATIONS:
KB 4919.57 FT
DF
OL 4803.57 FT

DATE	25-NOV-2008	
RUN	TRIP	2
SERVICE ORDER	572896	
DEPTH DRILLER	3314 FT	
DEPTH LOGGER	3313 FT	
BOTTOM LOGGED INTERVAL	3301 FT	
TOP LOGGED INTERVAL	2100 FT	
CASING DRILLER	10.75 IN	
CASING LOGGER	2280 FT	
BIT SIZE	9.875 IN	
TYPE OF FLUID IN HOLE	LSND	
DENSITY	8.8 LB/G	40 S
PH	9.7	8.03
FLUID LOSS	FLGMLINE	
SOURCE OF SAMPLE	0.885 G/HM	
RM AT MEAS. TEMP.	0.826 G/HM	
RM AT MEAS. TEMP.	1.018 G/HM	
RM AT MEAS. TEMP.	MEASURED	
SOURCE OF RMF	0.286 G/HM	
RM AT BHT	14.5 HOURS	
TIME SINCE CIRCULATION	216 DEGF	
MAX. RECORDED TEMP.	M-4232	
EQUIP. NO.	LOCATION	FALLON, NV
RECORDED BY	C. PEAVEY	
WITNESSED BY	J. HANBLIN	

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 2 TRIP 2 : **CVOL WAS COMPUTED USING 8.625" CASING (BVOL AND CVOL UNITS ARE IN CUBIC FEET) CALIPER WAS VERIFIED IN CASING.**

STAND-OFFS WERE RUN FOR THE HDIL.

A MAXIMUM READING THERMOMETER WAS RUN AS WELL AND THE MAXIMUM TEMPERATURE IT REACHED WAS: 216 DEGF

**THANK YOU FOR CHOOSING BAKER ATLAS!
CREW: R. DANKLEFSEN AND J. HAYCOCK
RIG: ENSIGN 581**

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
2	2	SNVL	3844KD	10165844	FREE
2	2	TRM	5881XA	10217216	FREE
2	2	STB	1514XB	10200358	FREE

2	2	DSL	1320XA	1020300	FREE
2	2	HDIL	1515FA/WA	10088826/10088832	STAND-OFF
2	2	CENT	4341XA	10211527	FREE
2	2	ORT	4401KB	10165246	CENTRALIZED
2	2	XMAC	1877FA/1878MC	10337574/370238	CENTRALIZED
2	2	ISO	1678PB	10215112	CENTRALIZED
2	2	XMAC XTR	1878FA/1878FA	370234/10188888	CENTRALIZED
2	2	CENT	4341XA	10162851	FREE

MAIN LOG 2"/100FT SCALE

ECLIPS 6.01 Feb 21, 2008

Thu Nov 26 03:43:56 2009

Updates: 1,43

Perplf /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.42

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/575886/k7711R77.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 2070.125 ft BOTTOM DEPTH: 3323.500 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
TENSION	FILTER ()	medium (1)		TOP	BOTTOM
GR	FILTER ()	medium (1)		"	"
SP-SPDH	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	8.625	1n	TOP	BOTTOM
BIT SIZE	BIT SIZE	9.875	1n	"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	67.7	degF	"	"
	MUD SAMPLE RES	1.250	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	232.0	degF	"	"
	at BH REF DEPTH	3314.0	ft	"	"
	with TEMP GRADIENT	1.200	0.01 degF/ft	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE FIXED SIZE		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	9.875	1n	"	"
BH MUD RESISTIVITY SOURCE	RMD SOURCE (HDIL)	MUD SAMP DERIVED		"	"

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE RXTMP		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"
	ABC to CALCULATE	BOREHOLE SIZE		"	"
	STANDOFF	2.00	1n	"	"
	TOOL POSITION	CENTRALIZED		"	"
	Rmsd MULTIPLIER	1.500		"	"

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Nov 25 07:10:29 2009	BIT SIZE
F1:BVOL	BVOL	Nov 25 07:10:29 2009	BOREHOLE VOLUME
F1:CAL	CAL	Nov 25 07:10:29 2009	CALIPER
F1:CVOL	CVOL	Nov 25 07:10:29 2009	CEMENT VOLUME
F1:GR	GR	Nov 25 07:10:29 2009	GAMMA RAY
F1:M2R1	M2R1	Nov 25 07:10:29 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 10 INCH
F1:M2R2	M2R2	Nov 25 07:10:29 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 20 INCH

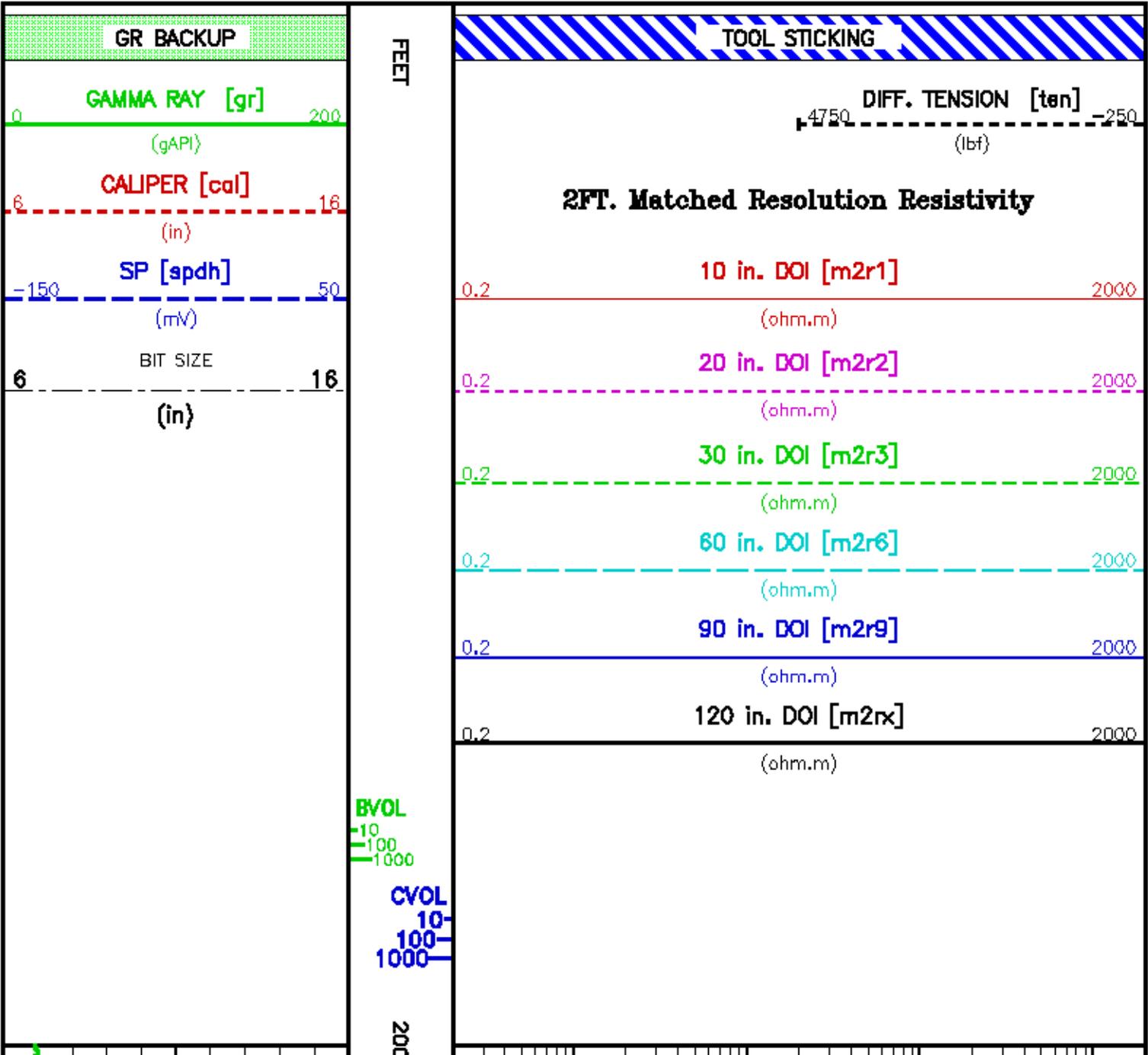
F1:M2R3	M2R3	Nov 25 07:10:29 2009	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 30 INCH
F1:M2R6	M2R6	Nov 25 07:10:29 2009	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 60 INCH
F1:M2R9	M2R9	Nov 25 07:10:29 2009	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 90 INCH
F1:M2R6	M2R6	Nov 25 07:10:29 2009	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 120 INCH
F1:SPDH	SP	Nov 25 07:10:29 2009	SPONTANEOUS POTENTIAL PROCESSED IN COMMON REMOTE	
F1:TEN	TEN	Nov 25 07:10:29 2009	DIFFERENTIAL TENSION	

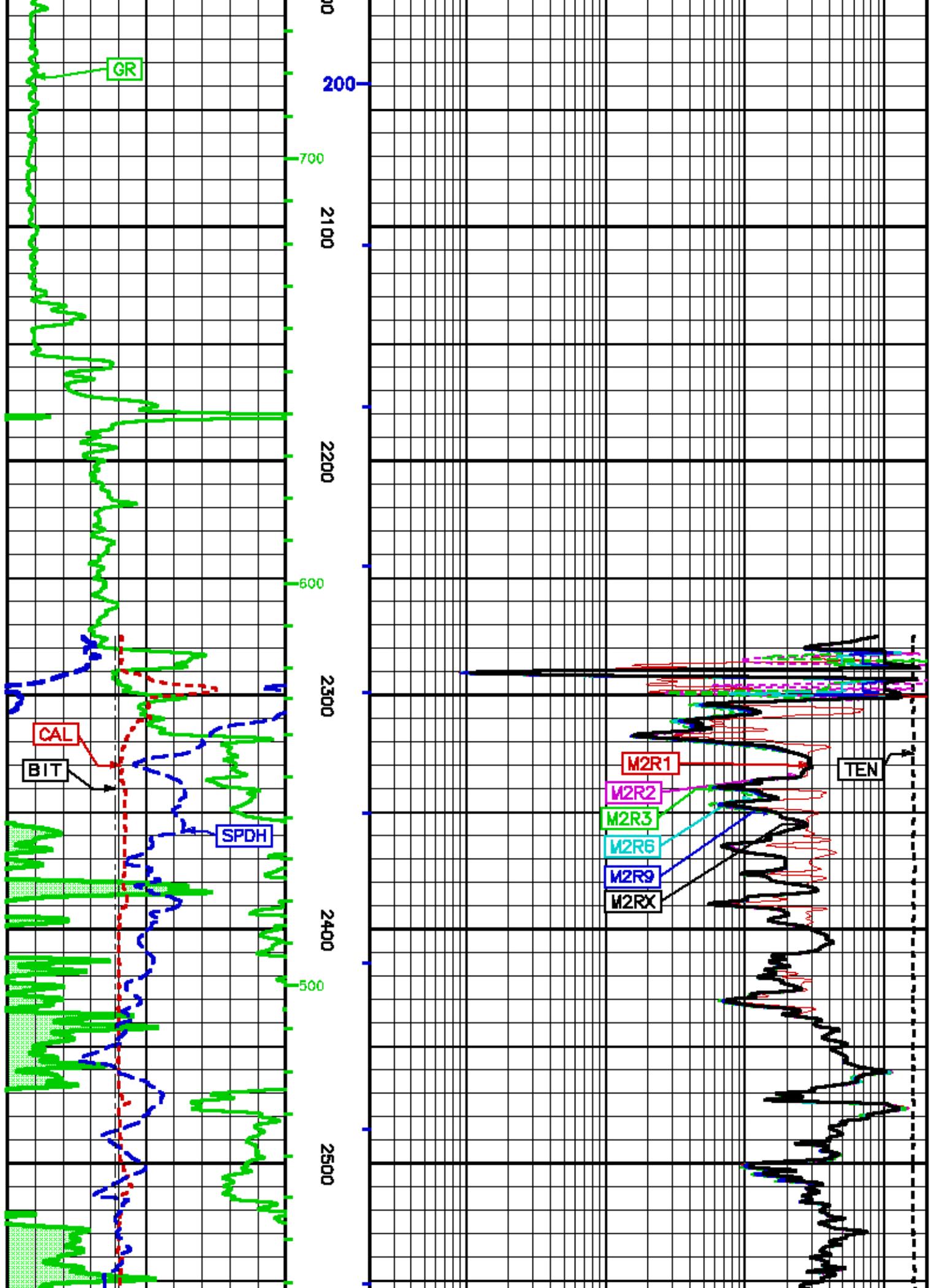
CURVE MEASURE POINT OFFSET

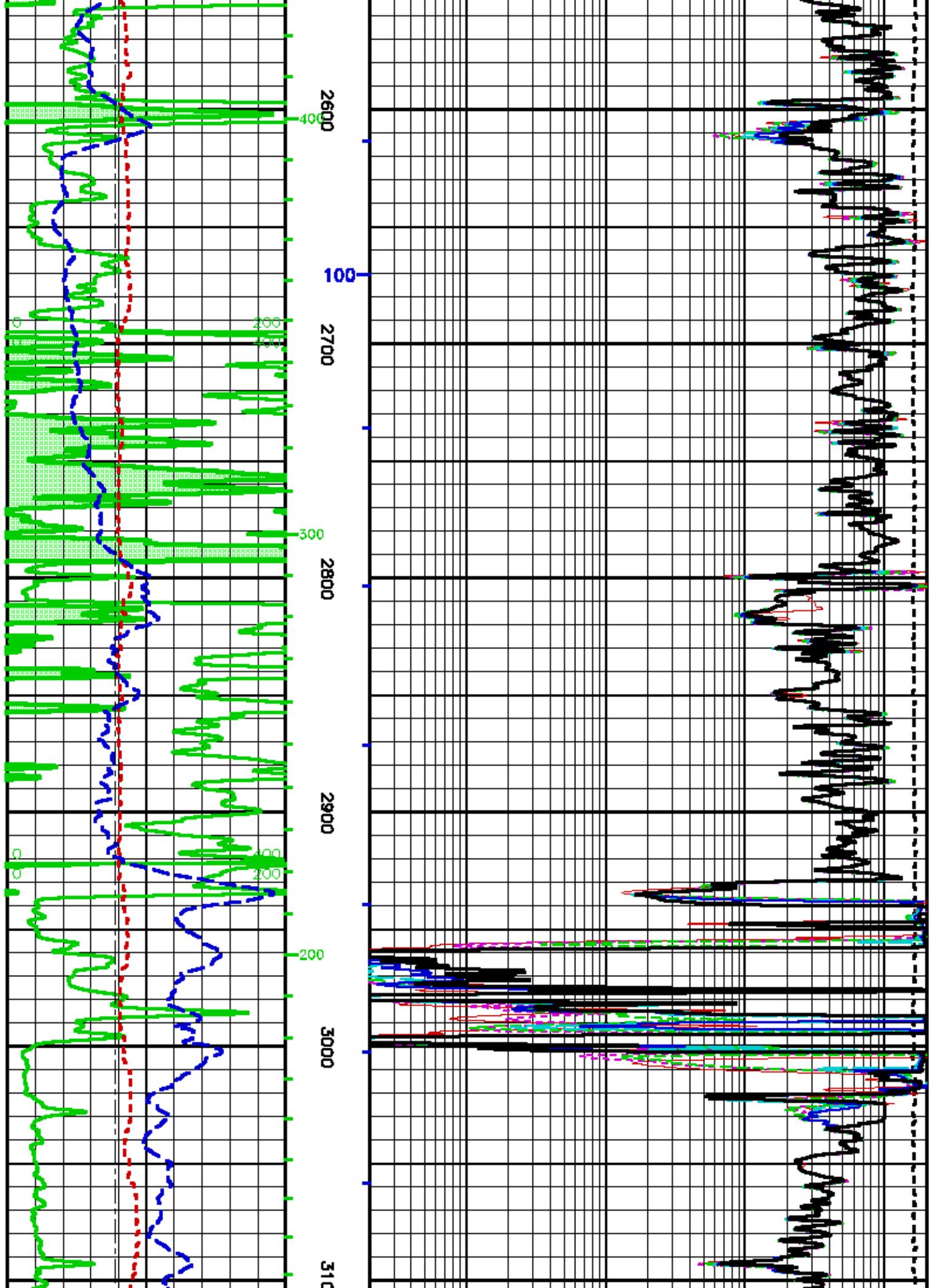
CURVE	OFFSET (ft)						
BIT	0.00	M2R1	83.00	M2R6	83.00	SPDH	89.00
CAL	89.50	M2R2	83.00	M2R9	83.00	TEN	0.00
GR	83.75	M2R3	83.00	M2R6	83.00		

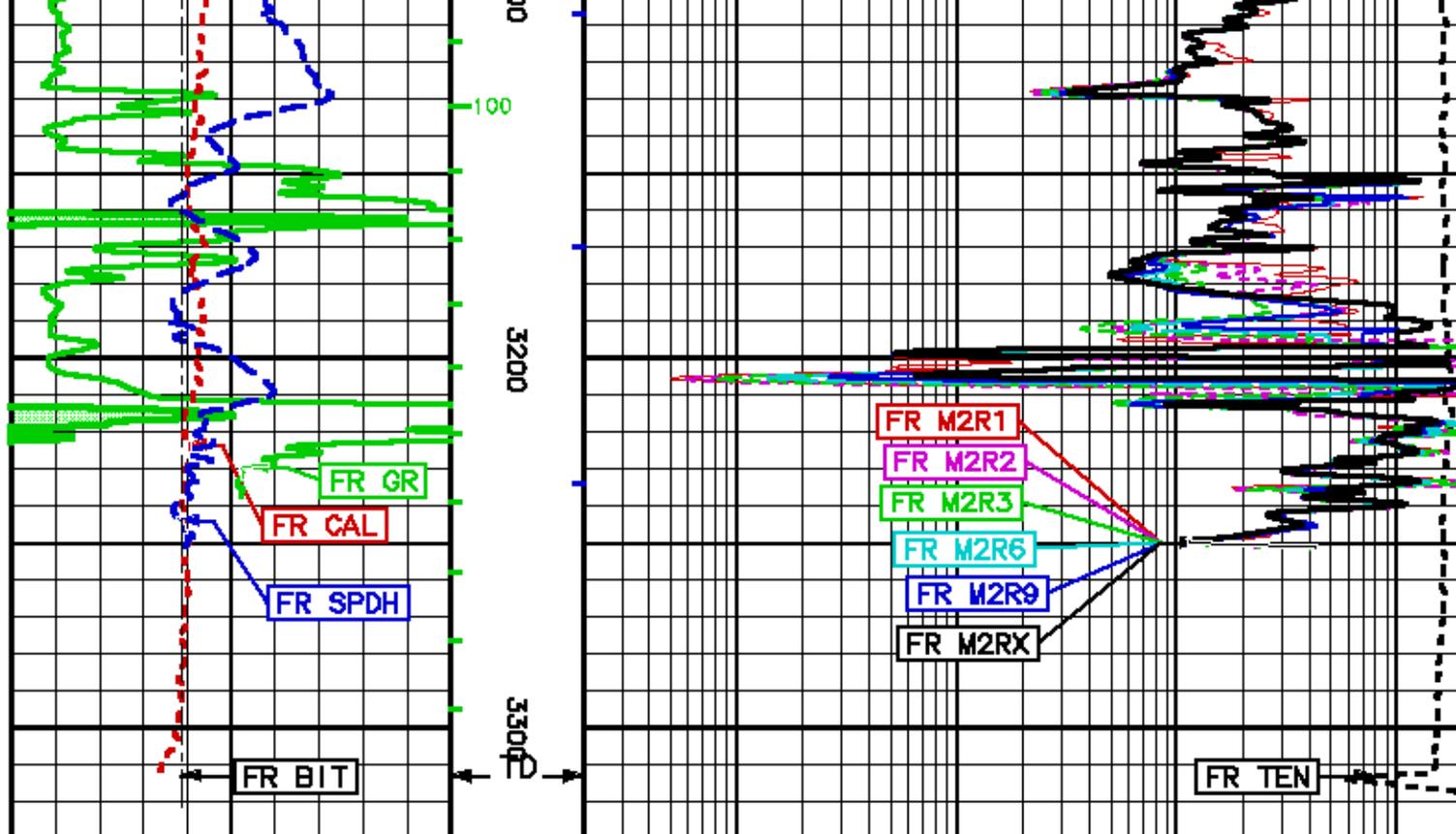
Presentation : epu1:/dat1a/575998/HDIL_ZIN_MAM.pdf [2"/100' Scale]
 Plot Interval : 2000 - 3325 Feet

Data File 1 : F1 : epu1:/dat1a/575998/9_XMAC-HDIL-GR_MAM.dft
 Created On : Nov 25 07:10:29 2009
 Company : SIERRA GEOTHERMAL POWER, INC.
 Well : ALUM 25-29
 Field : ALUM
 File Interval : 1850.75 - 3325.5 Feet
 Out : k7711

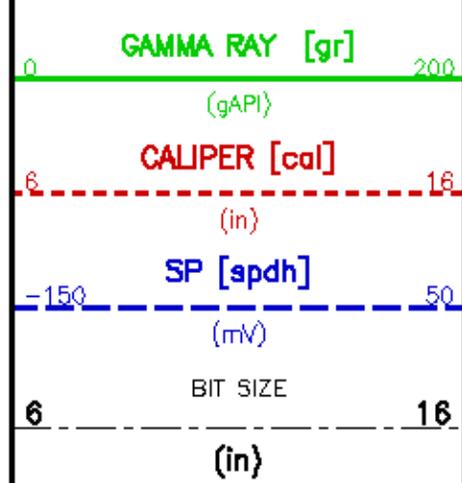




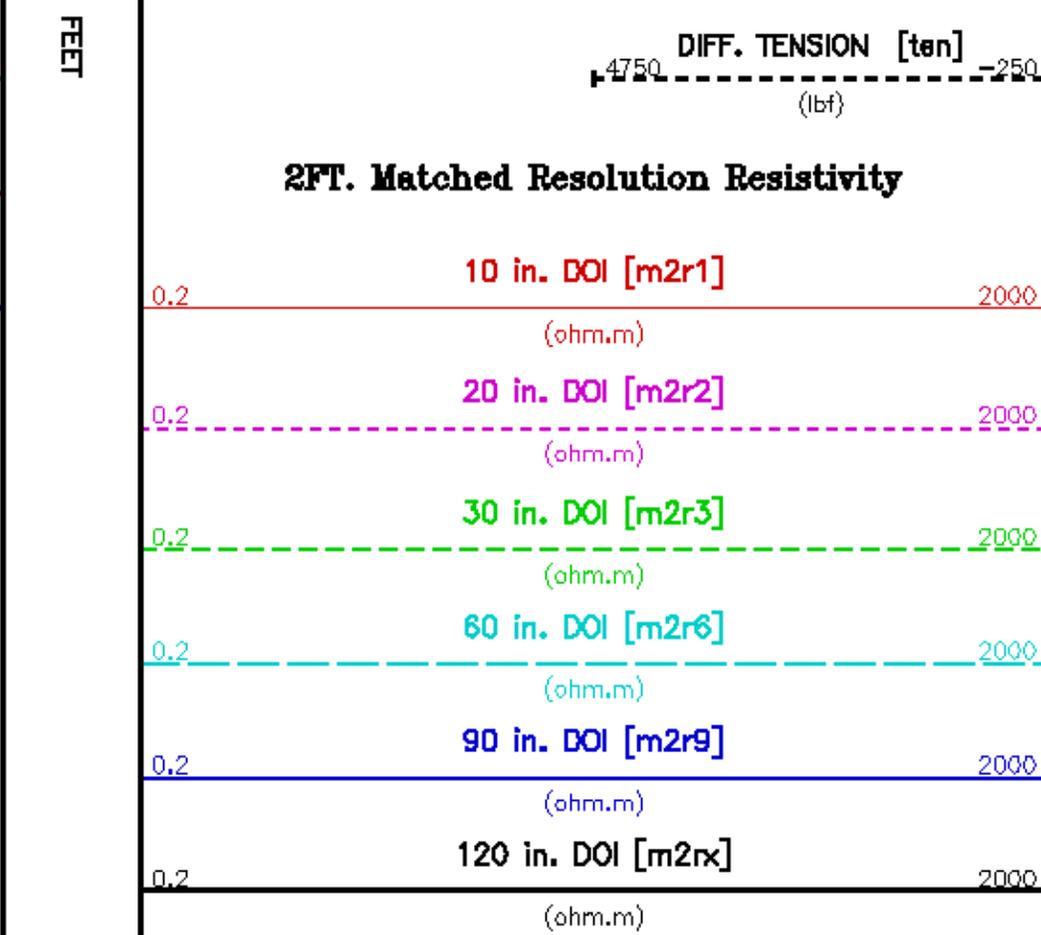




GR BACKUP



TOOL STICKING



BVOL
-10
-100
-1000

CVOL
10
100

MAIN LOG 5"/100FT SCALE

ECLIPS 6.01 Feb 21, 2008
Updates: 1,43

Thu Nov 26 03:40:39 2009

Perplot /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.42

PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/575886/k7711R77.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 2070.125 ft BOTTOM DEPTH: 3323.500 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
TENSION	FILTER ()	medium (1)		TOP	BOTTOM
GR	FILTER ()	medium (1)		"	"
SP-SPDH	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	8.625	1n	TOP	BOTTOM
BIT SIZE	BIT SIZE	9.875	1n	"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	67.7	degF	"	"
	MUD SAMPLE RES	1.250	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	232.0	degF	"	"
	at BH REF DEPTH	3314.0	ft	"	"
	with TEMP GRADIENT	1.200	0.01 degF/ft	"	"
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE FIXED SIZE		"	"
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	9.875	1n	"	"
BH MUD RESISTIVITY SOURCE	RMD SOURCE (HDIL)	MUD SAMP DERIVED		"	"

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE RXTMP		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"
	ABC to CALCULATE	BOREHOLE SIZE		"	"
	STANDOFF	2.00	1n	"	"
	TOOL POSITION	CENTRALIZED		"	"
	Rmud MULTIPLIER	1.500		"	"

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Nov 25 07:10:29 2009	BIT SIZE
F1:BVOL	BVOL	Nov 25 07:10:29 2009	BOREHOLE VOLUME
F1:CAL	CAL	Nov 25 07:10:29 2009	CALIPER
F1:CVOL	CVOL	Nov 25 07:10:29 2009	CEMENT VOLUME
F1:GR	GR	Nov 25 07:10:29 2009	GAMMA RAY
F1:M2R1	M2R1	Nov 25 07:10:29 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 10 INCH
F1:M2R2	M2R2	Nov 25 07:10:29 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 20 INCH
F1:M2R3	M2R3	Nov 25 07:10:29 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 30 INCH
F1:M2R6	M2R6	Nov 25 07:10:29 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 60 INCH
F1:M2R9	M2R9	Nov 25 07:10:29 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 90 INCH

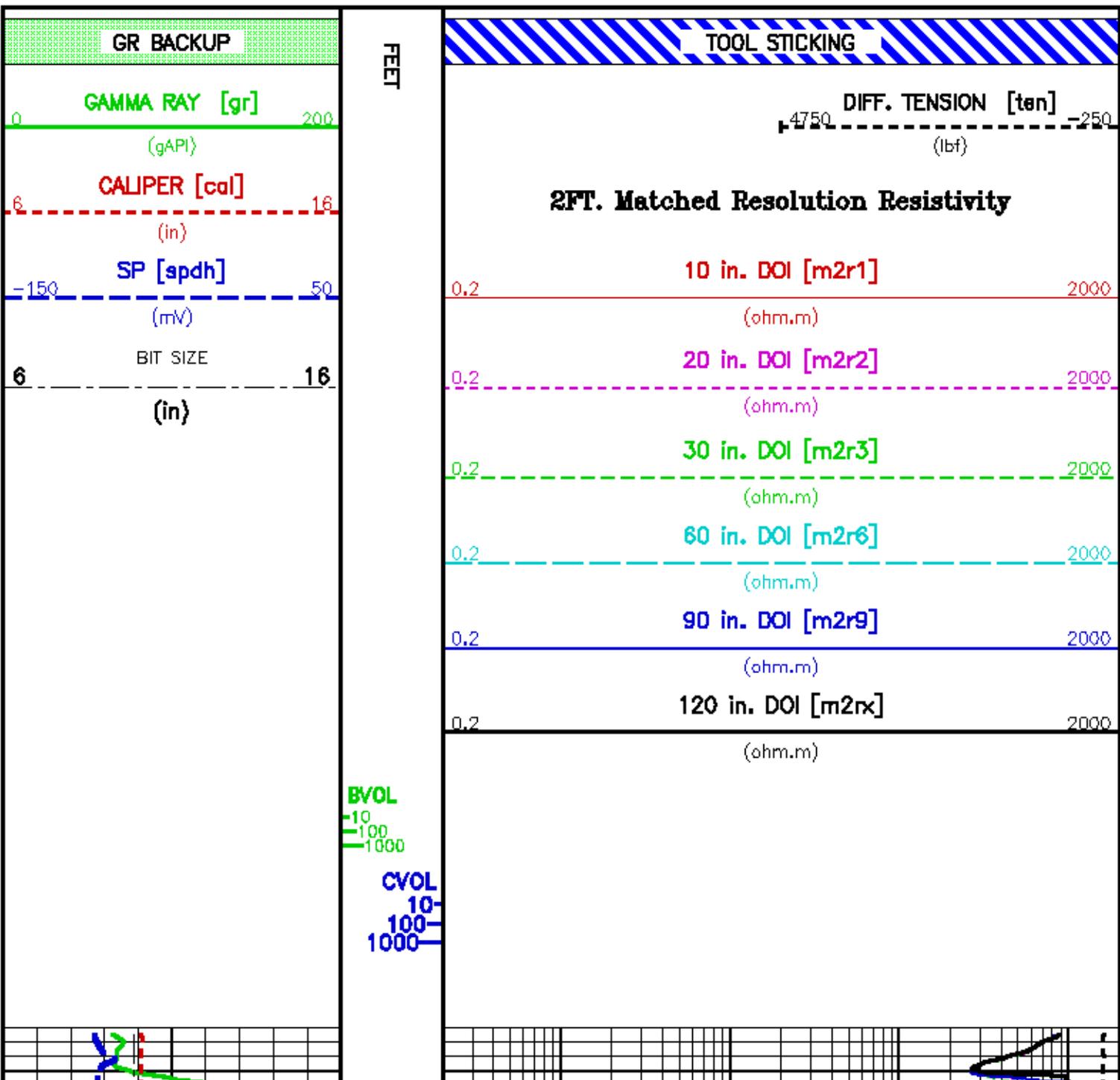
F1:M2RX	M2RX	Nov 25 07:10:29 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 120 INCH
F1:SPDH	SP	Nov 25 07:10:29 2009	SPONTANEOUS POTENTIAL PROCESSED IN COMMON REMOTE
F1:TEN	TEN	Nov 25 07:10:29 2009	DIFFERENTIAL TENSION

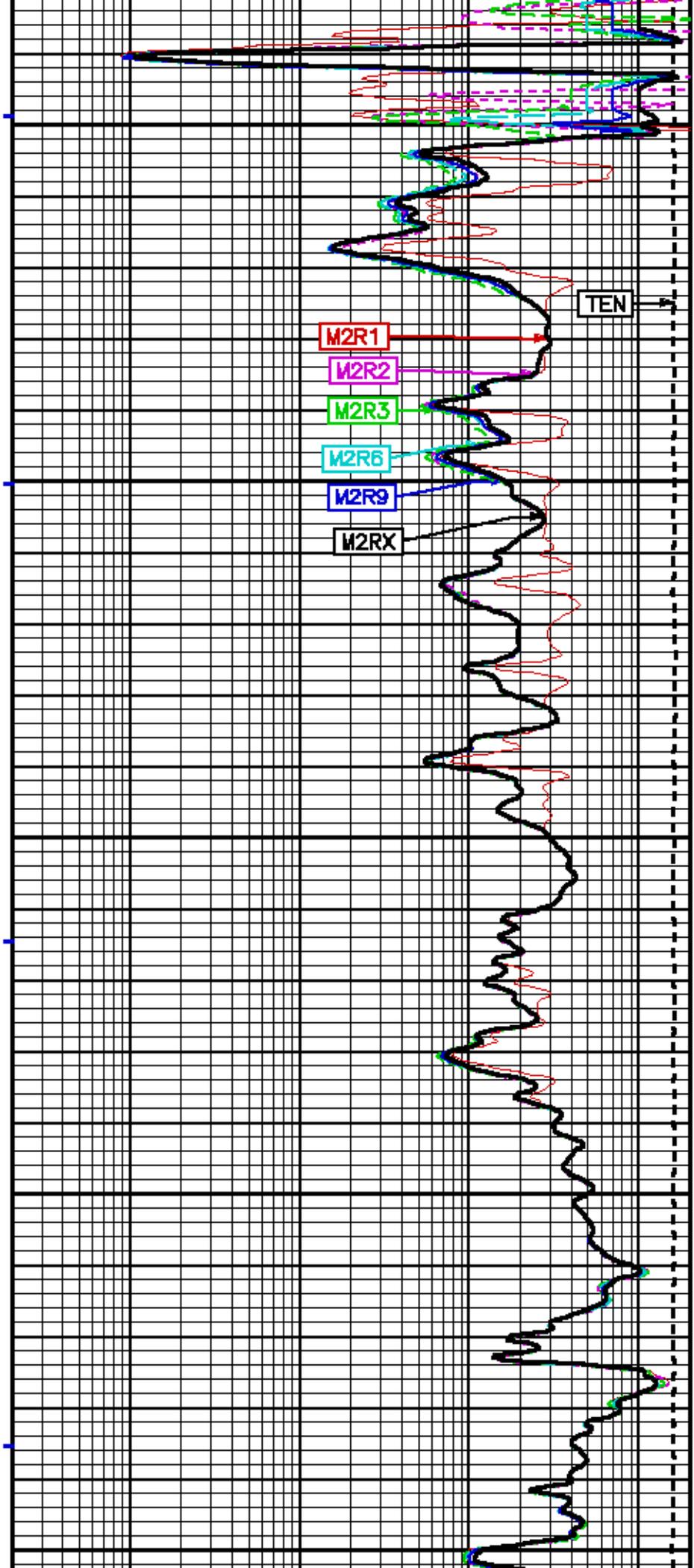
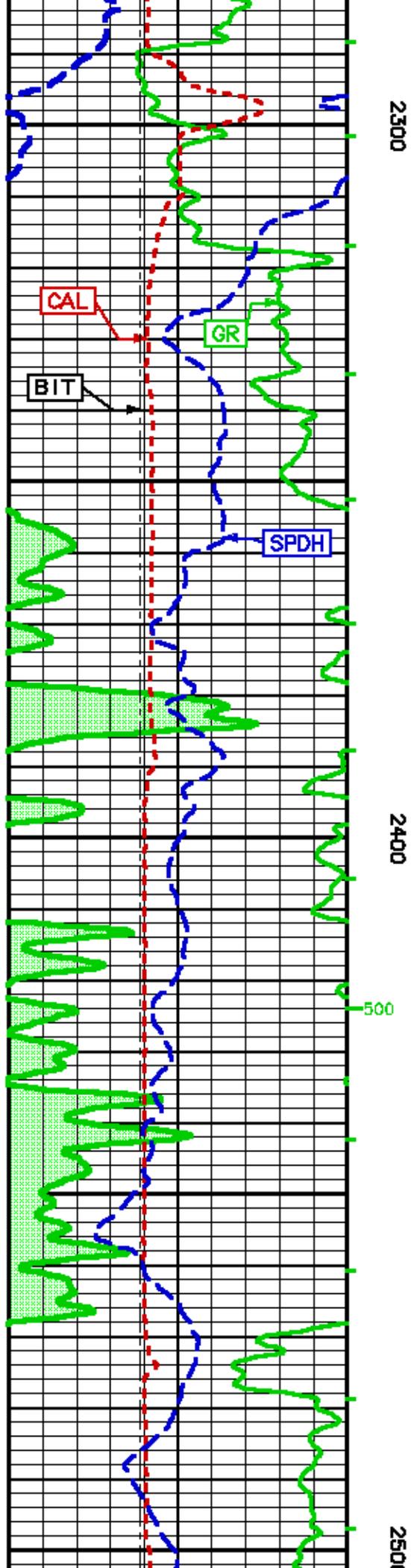
CURVE MEASURE POINT OFFSET

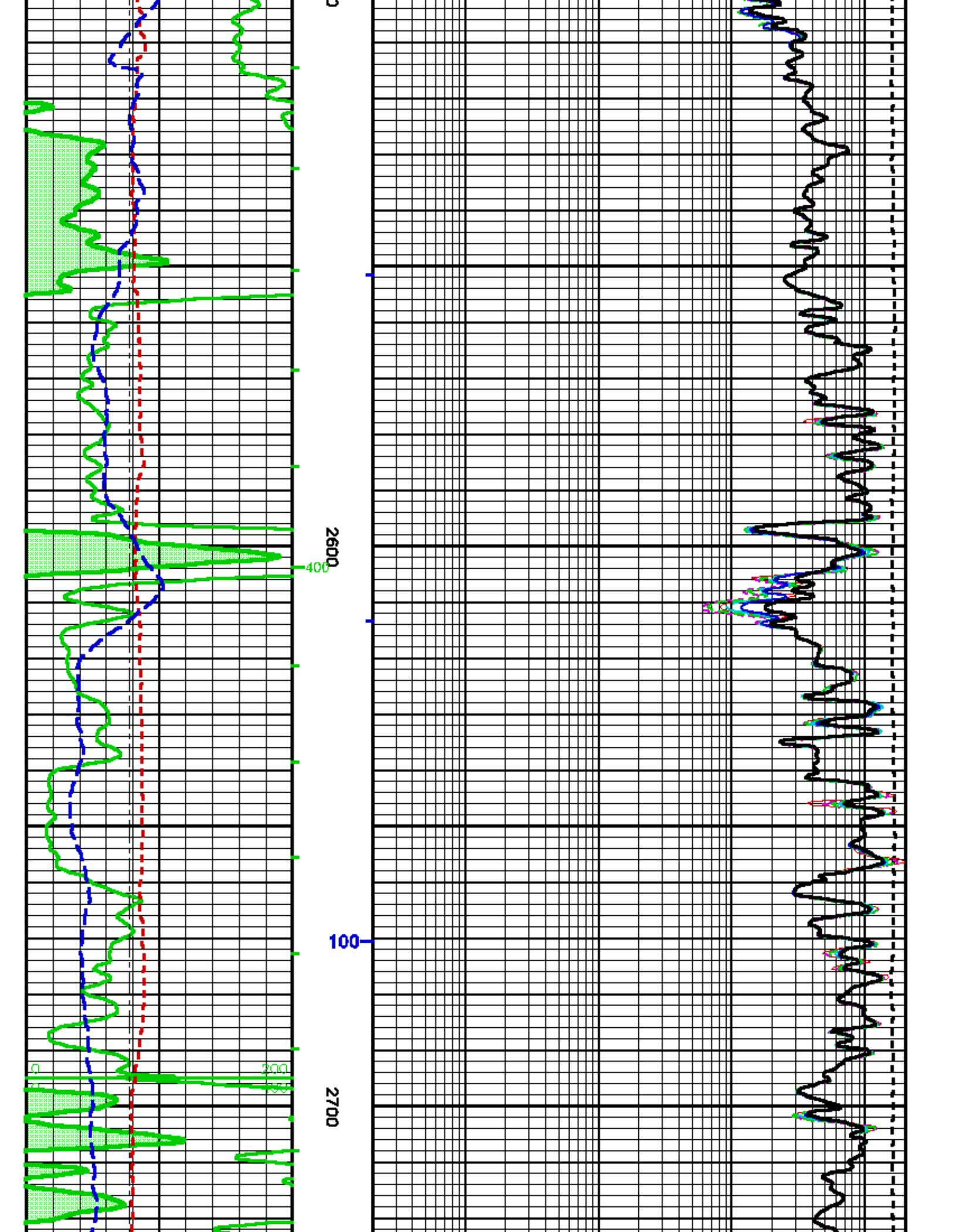
CURVE	OFFSET (ft)						
BIT	0.00	M2R1	83.00	M2R6	83.00	SPDH	89.00
CAL	89.50	M2R2	83.00	M2R9	83.00	TEN	0.00
GR	83.75	M2R3	83.00	M2RX	83.00		

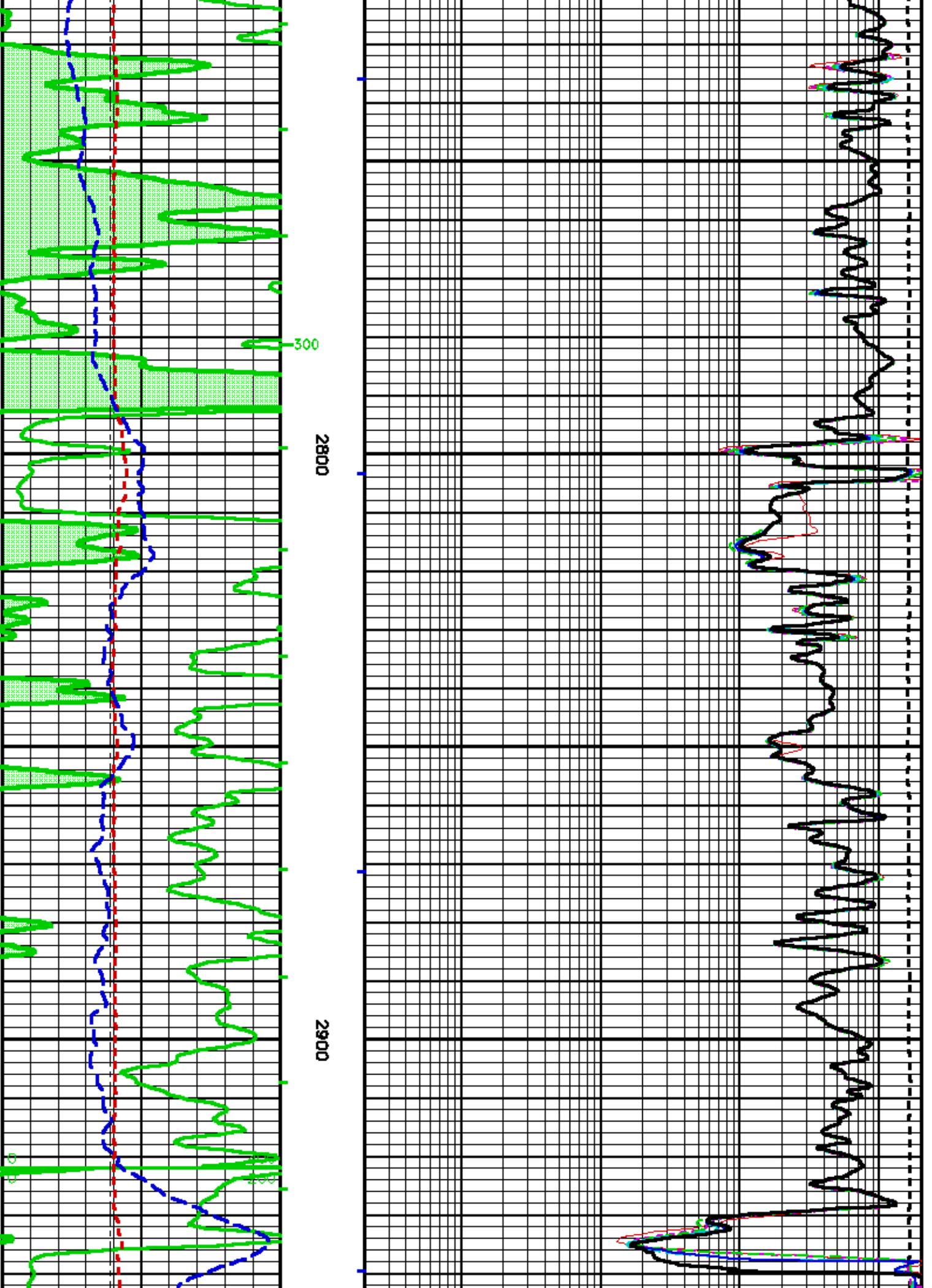
Presentation : opul:/dat1a/575998/NDIL_MAIN.pdf [5"/100' Scale]
Plot Interval : 2275 - 3325 Feet

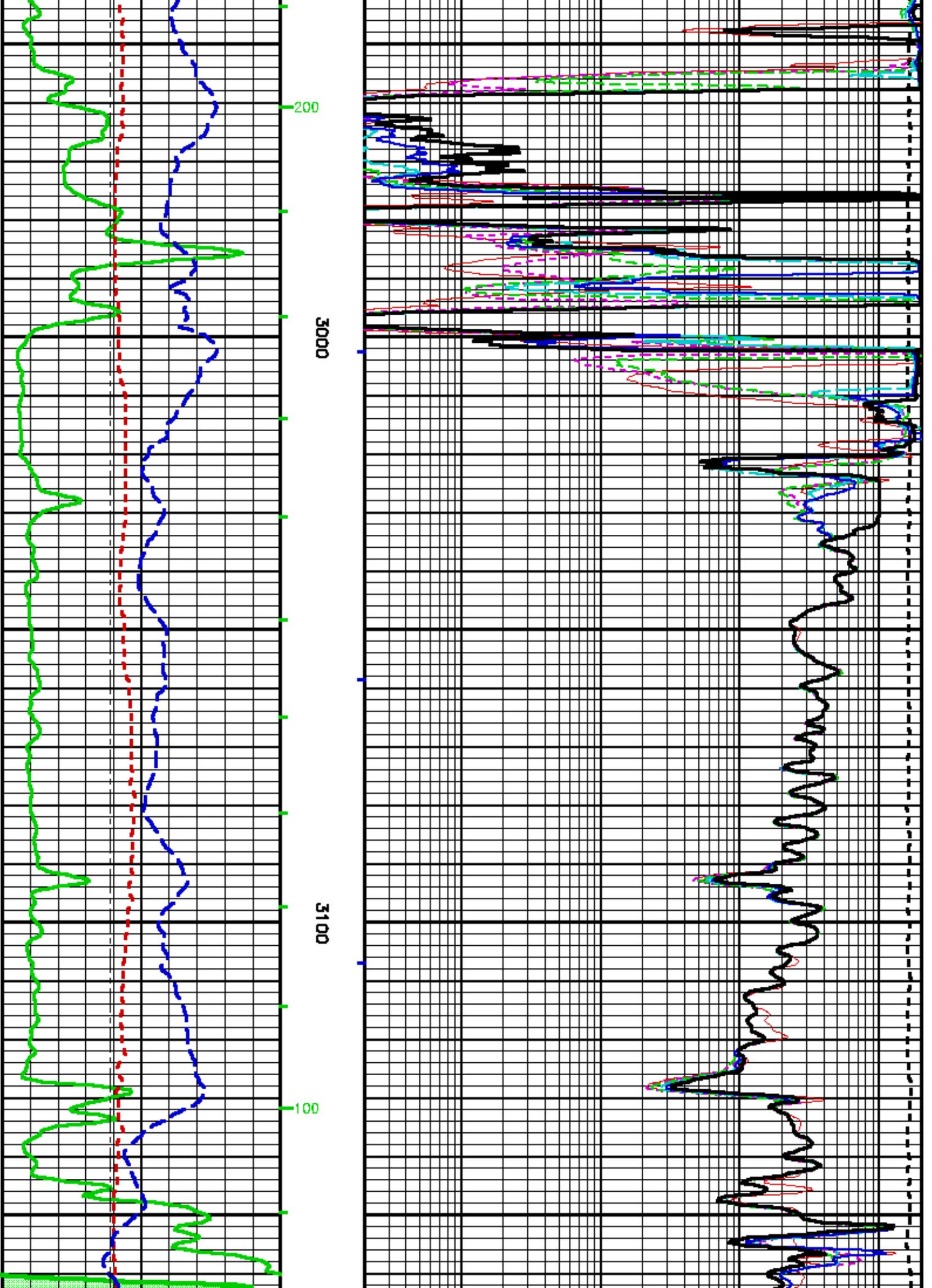
Data File 1 : F1 : opul:/dat1a/575998/9_XMAC-NDIL-GR_MAIN.dfl
Created On : Nov 25 07:10:29 2009
Company : SIERRA GEOTHERMAL POWER, INC.
Well : ALLIM 25-29
Field : ALLIM
File Interval : 1850.75 - 3325.5 Feet
Out : k7711

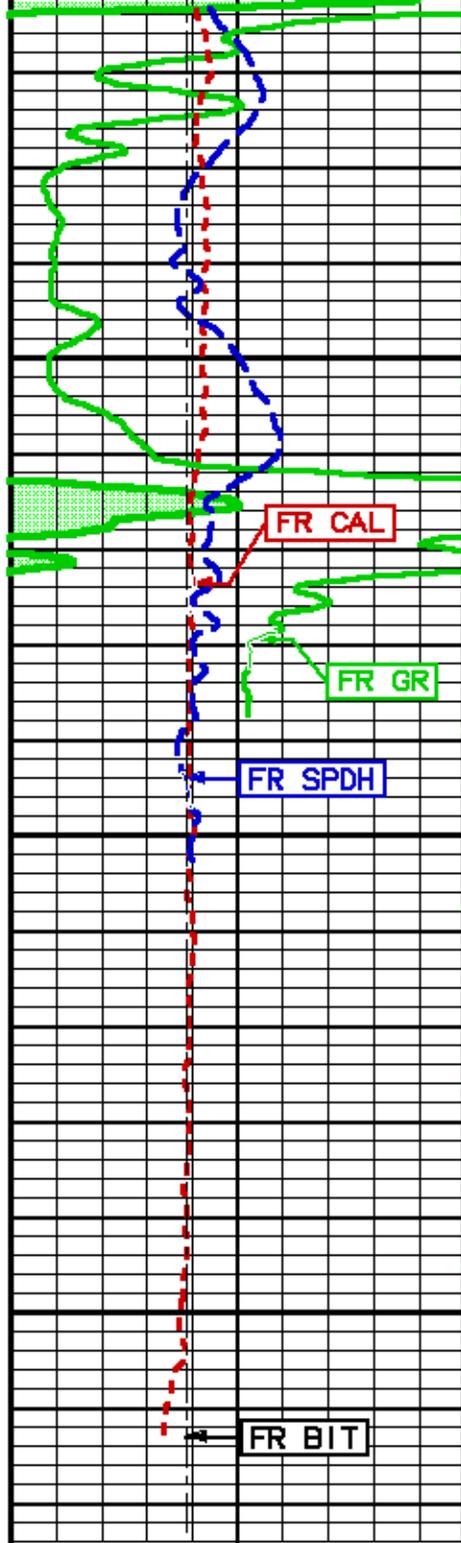












3200

3500

TD

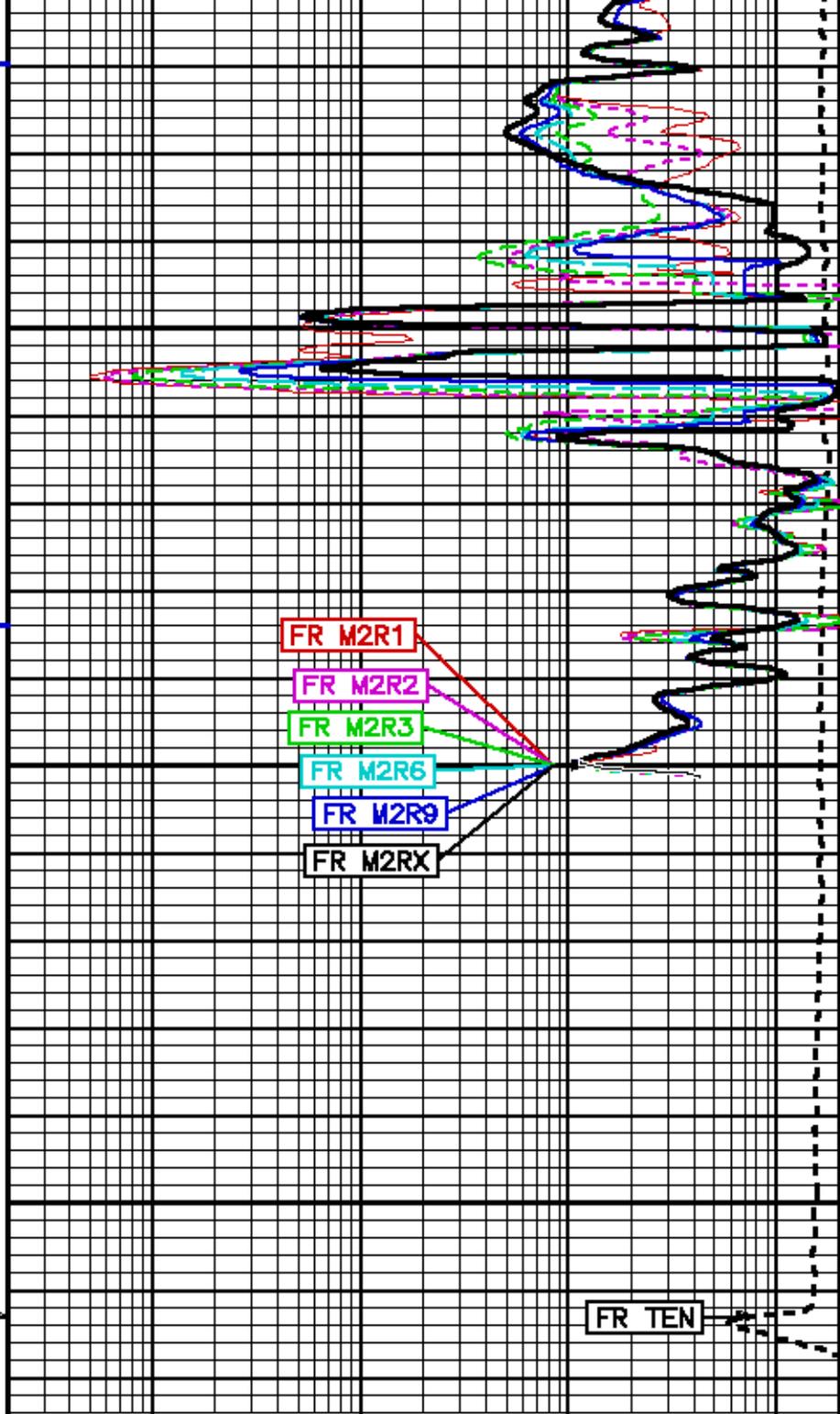
GR BACKUP

GAMMA RAY [gr] (gAPI)

CALIPER [cal] (in)

SP [spdh] (mV)

BIT SIZE (in)



FR M2R1

FR M2R2

FR M2R3

FR M2R6

FR M2R9

FR M2RX

FR TEN

TOOL STICKING

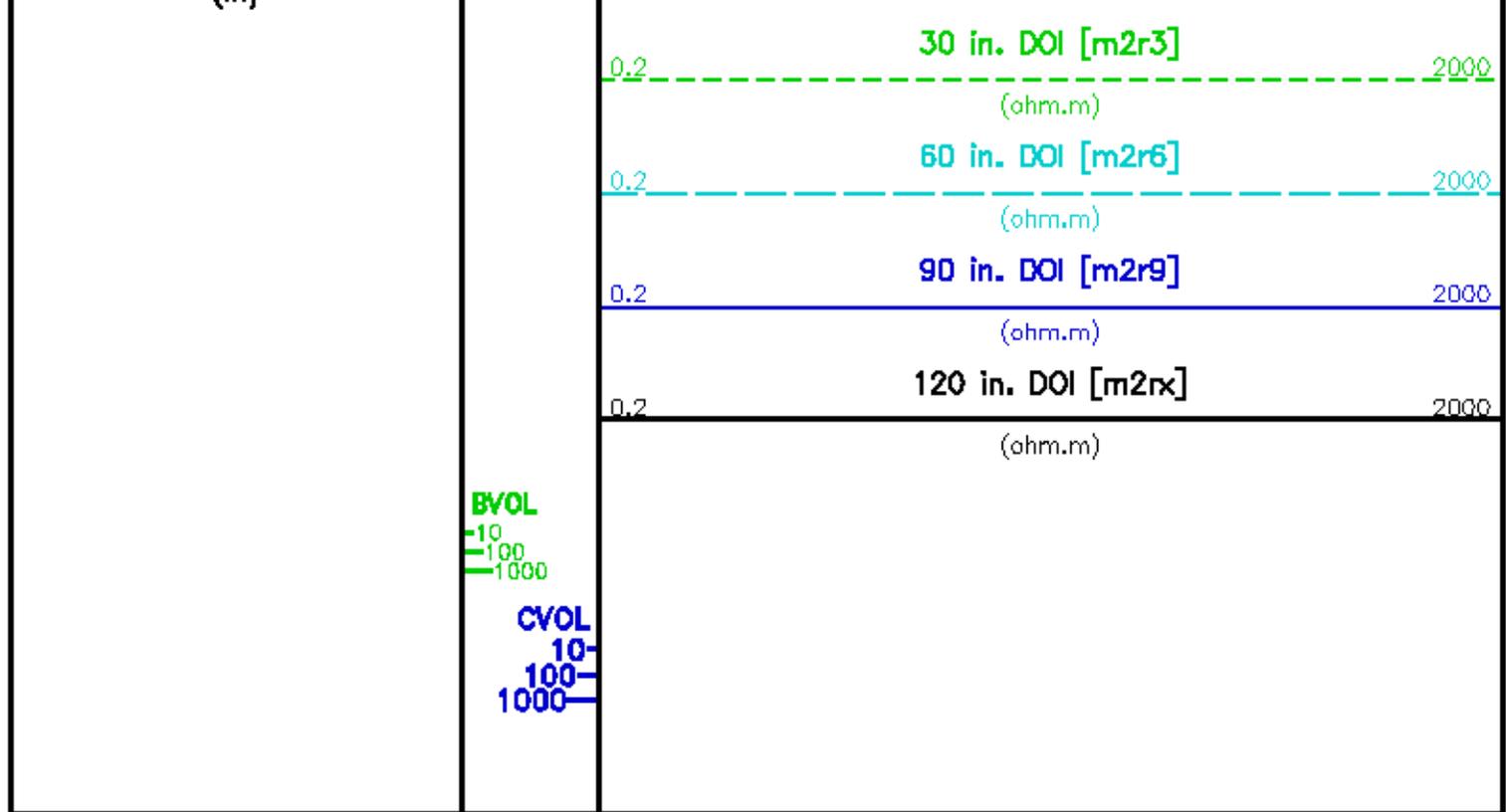
DIFF. TENSION [ten] (lbf)

2FT. Matched Resolution Resistivity

10 in. DOI [m2r1] (ohm.m)

20 in. DOI [m2r2] (ohm.m)

FEET



REPEAT LOG

ECLIPS 6.01 Feb 21, 2008
 Updates: 1,43

Thu Nov 26 03:41:44 2009

Perplt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.42

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/575886/k7711R06.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 2873.500 ft BOTTOM DEPTH: 3323.500 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
TENSION	FILTER ()	medium (1)		TOP	BOTTOM
GR	FILTER ()	medium (1)		"	"
SP-SPDH	FILTER ()	medium (1)		"	"

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	8.625	1in	TOP	BOTTOM
BIT SIZE	BIT SIZE	9.875	1in	"	"
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	67.7	degF	"	"
	MUD SAMPLE RES	1.250	ohm.m	"	"
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	232.0	degF	"	"
	at BH REF DEPTH	3314.0	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*)	9.875	1in	"	"
BH MUD RESISTIVITY SOURCE	RMD SOURCE (HDIL)	MUD SAMP DERIVED		"	"

HDIL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
HDIL TEMPERATURE CORRECTION	TEMP CORR SOURCE	USE RXTMP		TOP	BOTTOM
	ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON	"	"
	ABC to CALCULATE	BOREHOLE SIZE		"	"
	STANDOFF	2.00	In	"	"
	TOOL POSITION	CENTRALIZED		"	"
	Rmsd MULTIPLIER	1.500		"	"

CURVE DESCRIPTION REPORT

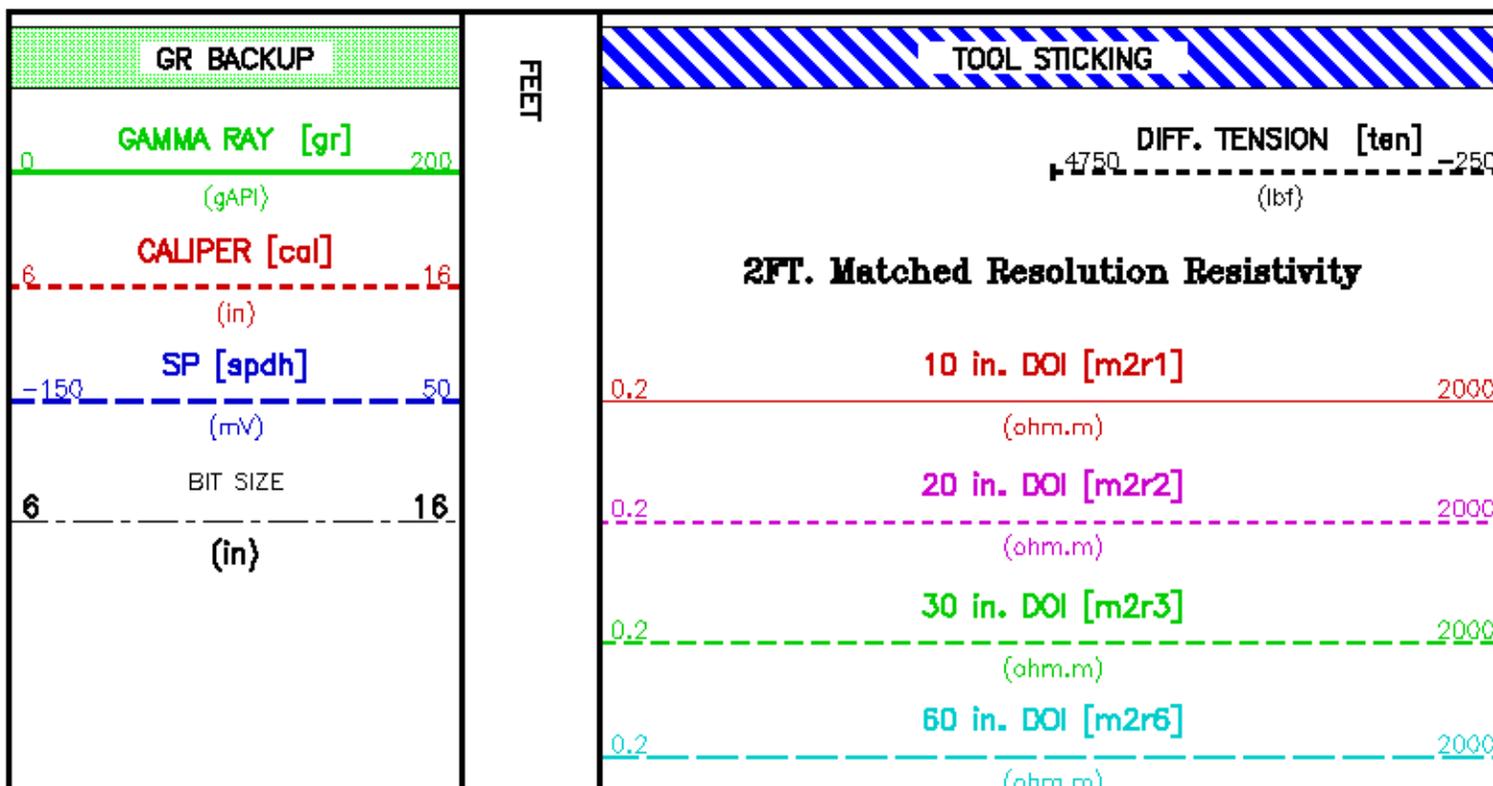
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Nov 25 08:53:27 2009	BIT SIZE
F1:BYOL	BYOL	Nov 25 08:53:27 2009	BOREHOLE VOLUME
F1:CAL	CAL	Nov 25 08:53:27 2009	CALIPER
F1:CYOL	CYOL	Nov 25 08:53:27 2009	CEMENT VOLUME
F1:GR	GR	Nov 25 08:53:27 2009	GAMMA RAY
F1:M2R1	M2R1	Nov 25 08:53:27 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 10 INCH
F1:M2R2	M2R2	Nov 25 08:53:27 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 20 INCH
F1:M2R3	M2R3	Nov 25 08:53:27 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 30 INCH
F1:M2R6	M2R6	Nov 25 08:53:27 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 80 INCH
F1:M2R9	M2R9	Nov 25 08:53:27 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 90 INCH
F1:M2RX	M2RX	Nov 25 08:53:27 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 120 INCH
F1:SPDH	SP	Nov 25 08:53:27 2009	SPONTANEOUS POTENTIAL PROCESSED IN COMMON REMOTE
F1:TEN	TEN	Nov 25 08:53:27 2009	DIFFERENTIAL TENSION

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)						
BIT	0.00	M2R1	83.00	M2R6	83.00	SPDH	89.00
CAL	89.50	M2R2	83.00	M2R9	83.00	TEN	0.00
GR	83.75	M2R3	83.00	M2RX	83.00		

Presentation : opul:/dat1a/575998/HDIL_REPEAT.pdf [5"/100' Scale]
 Plot Interval : 3000 - 3323.5 Feet

Data File 1 : F1 : opul:/dat1a/575998/8_XMAC-HDIL-GR_REPEAT.pdf
 Created On : Nov 25 08:53:27 2009
 Company : SIERRA GEOTHERMAL POWER, INC.
 Well : ALLUM 25-29
 Field : ALLUM
 File Interval : 2776 - 3323.5 Feet
 Out : k7711



90 in. DOI [m2r9]

2000

(ohm.m)

120 in. DOI [m2rx]

2000

(ohm.m)

BVOL

10
100
1000

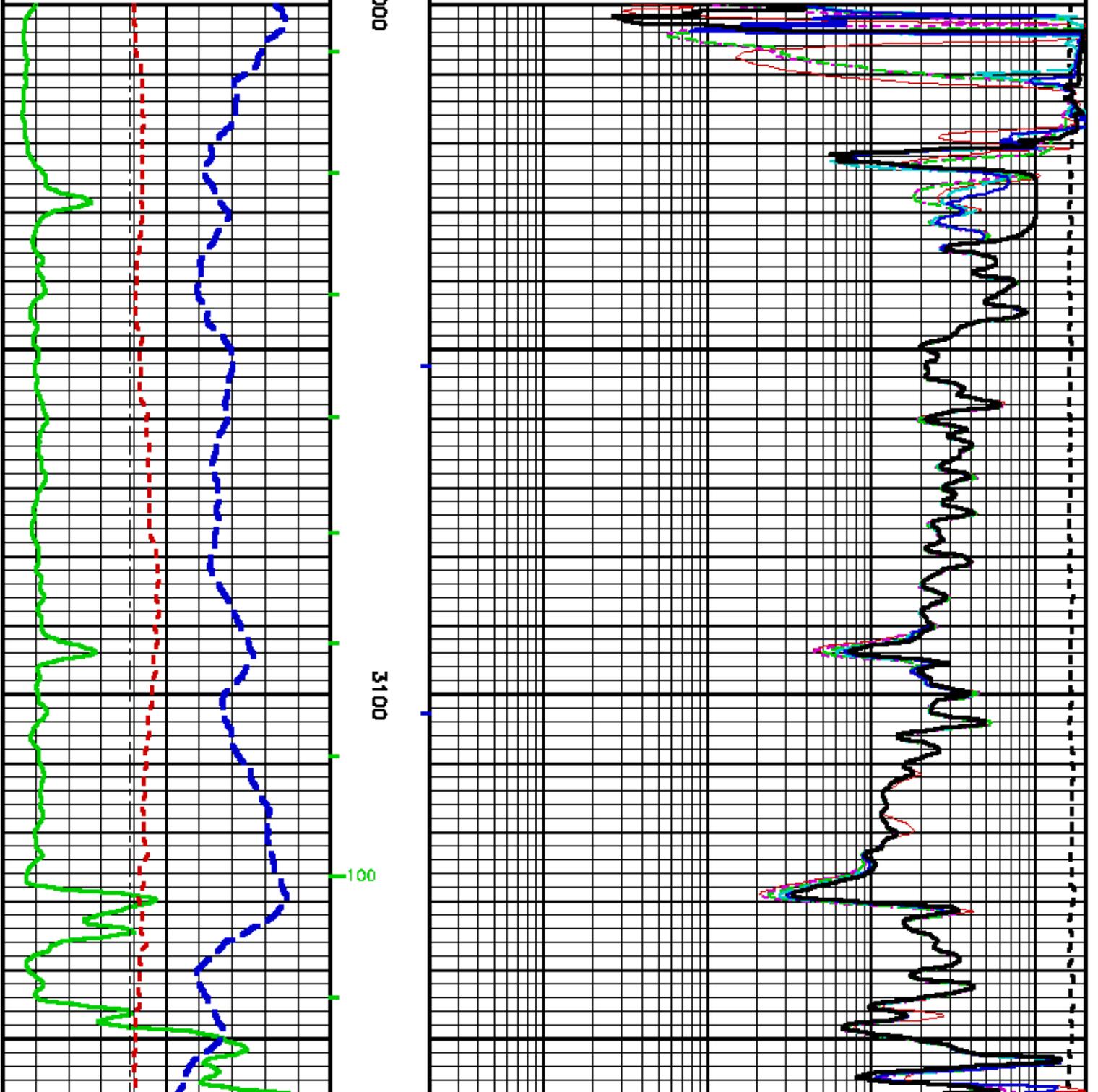
CVOL

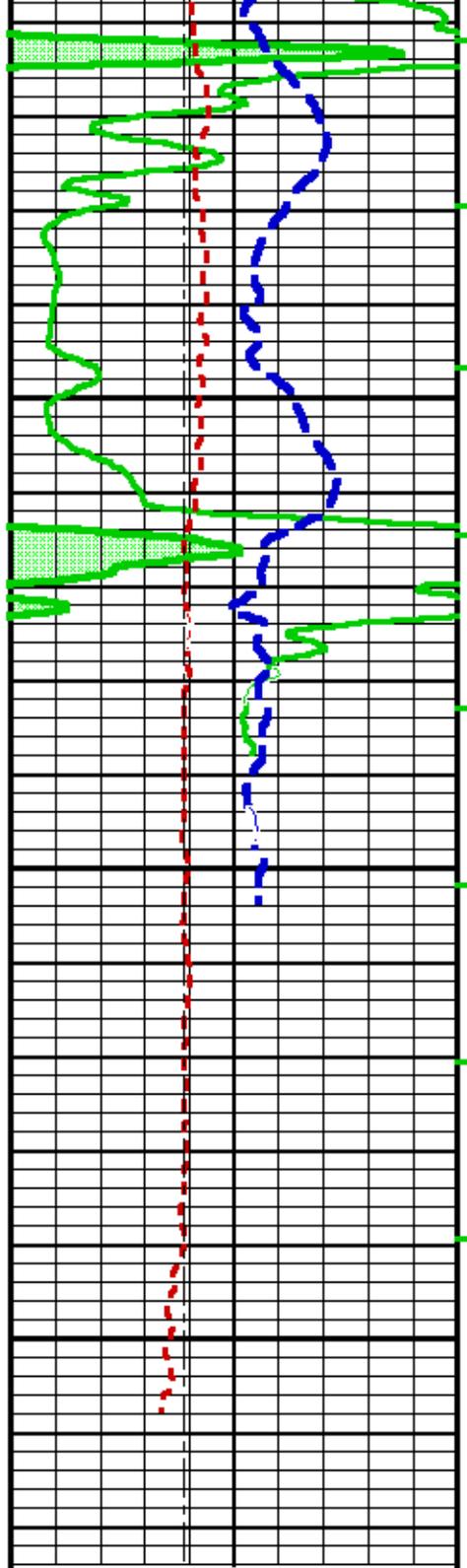
10
100
1000

3000

3100

100





3200

3500

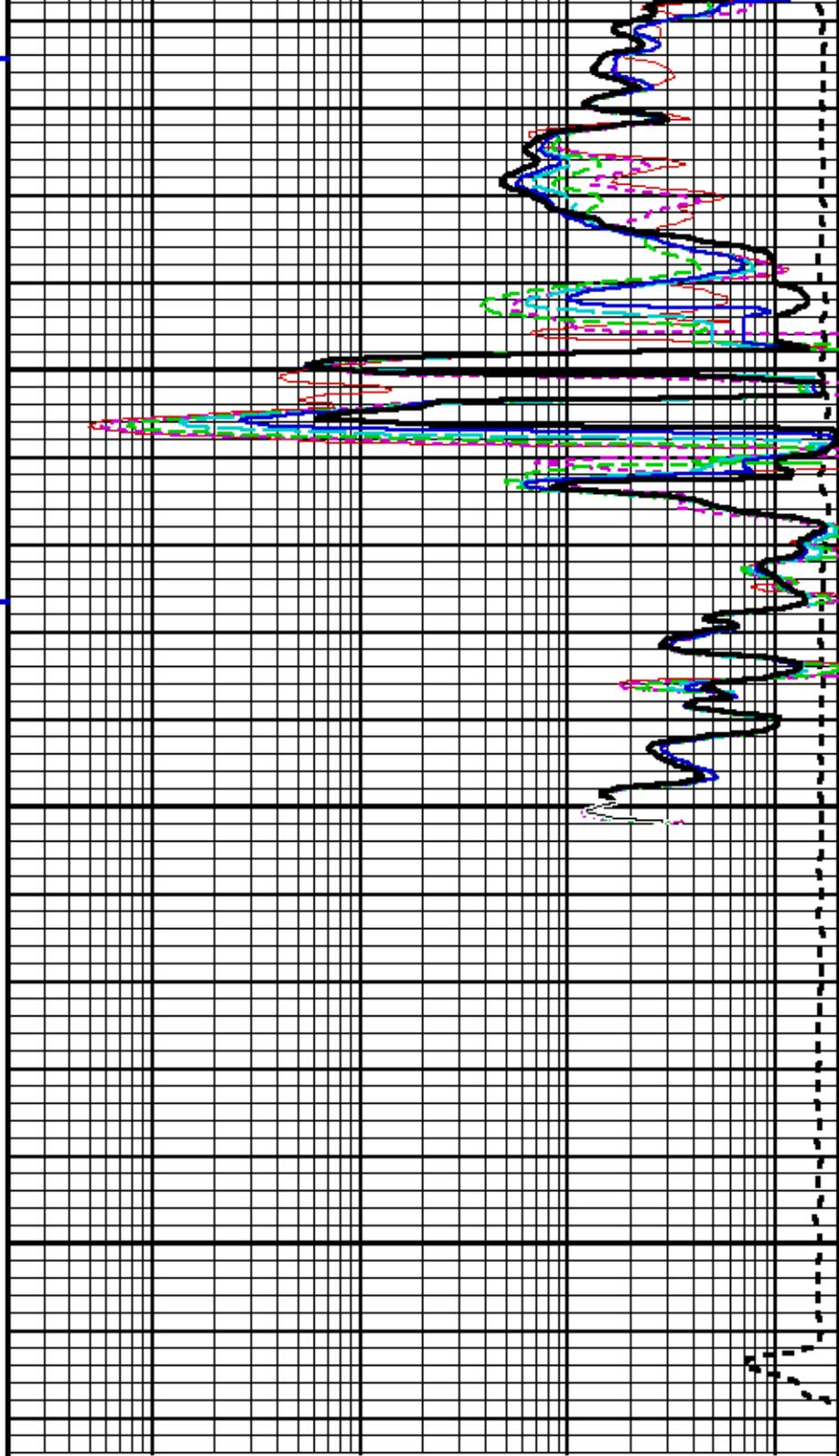
GR BACKUP

GAMMA RAY [gr]
(gAPI)

CALIPER [cal]
(in)

SP [spdh]
(mV)

BIT SIZE



TOOL STICKING

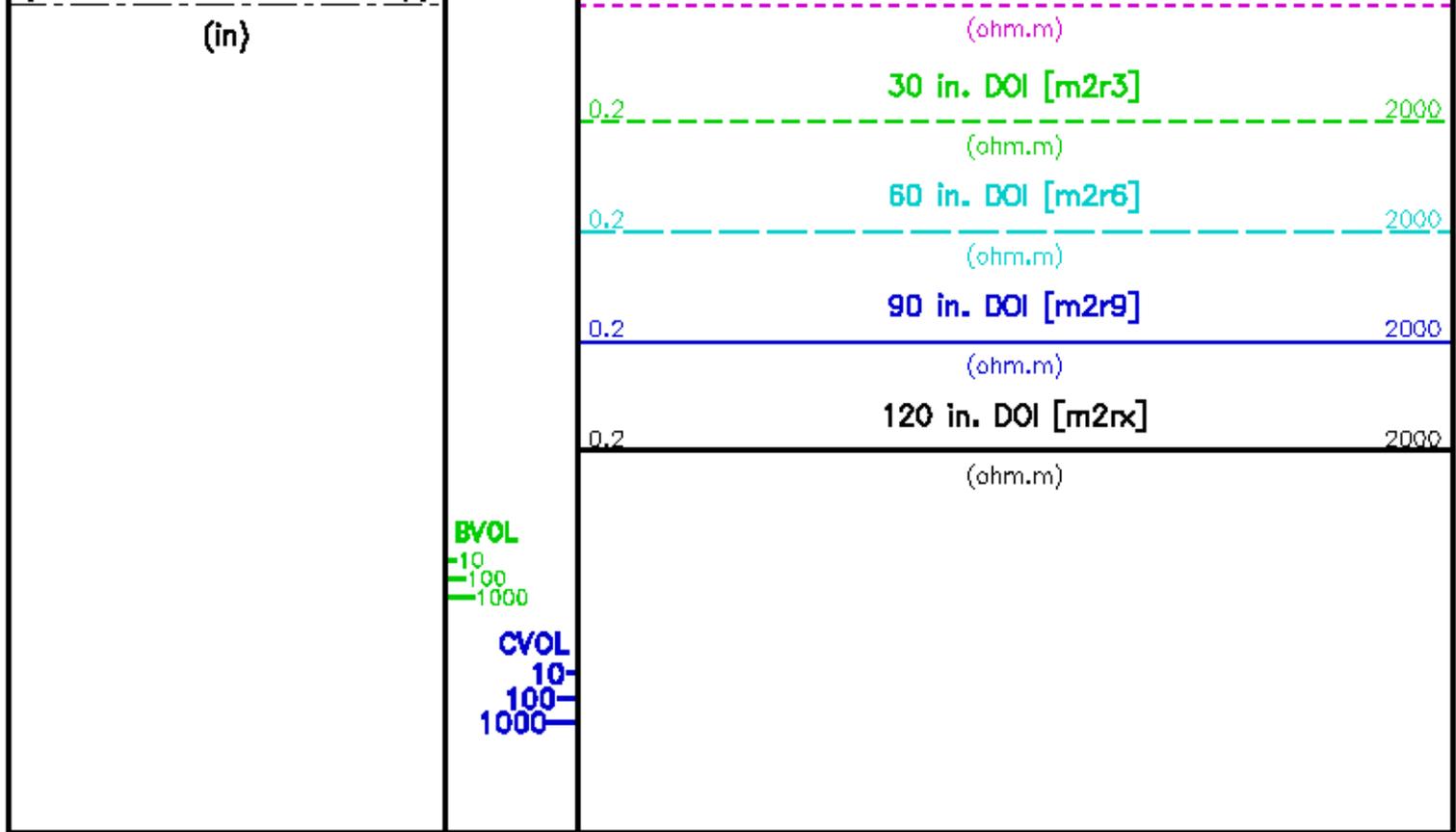
DIFF. TENSION [ten]
(lbf)

2FT. Matched Resolution Resistivity

10 in. DOI [m2r1]
(ohm.m)

20 in. DOI [m2r2]

FEET



CALIBRATION / VERIFICATION SUMMARY

Source File: /dell1a/B73888/XMAC_HDL.tbl

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 (cts/s)	CALBRTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	269.02	1162.96	893.9 830.0	0.168	45.14	195.14	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 (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	269.44	1191.73	0.168	45.21	199.97	154.76 140.00

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 10203000 DATE/TIME PERFORMED: Tue Nov 24 23:50:39 2009 DAYS SINCE CAL: 30

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

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	255.24	1118.22	0.168	42.83	187.64	144.81

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: **1329XA 10203000** DATE/TIME PERFORMED: **Wed Nov 25 02:09:11 2009** DAYS SINCE CAL: **30**

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

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	303.09	1132.89	0.168	50.86	190.06	139.21
						134.81 184.81

HDIL PRIMARY CALIBRATION SUMMARY

TOOL #: **1515MA 069832** DATE/TIME PERFORMED: **Thu Oct 29 16:15:55 2009**

UNIT #: **3885TD ML4232** GRCOND ID & DATE: **DEFAULT 0421108**

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	-0.000	0.001	0.001	-0.000	-0.002	-0.001	-0.001	-0.003
Coil 0 Q	0.005	0.005	0.003	0.002	0.003	0.002	-0.000	-0.001
Coil 1 R	-0.000	0.001	-0.001	-0.001	-0.001	-0.003	0.005	-0.007
Coil 1 Q	0.002	0.003	0.003	0.004	0.005	0.004	0.006	0.002
Coil 2 R	0.003	0.003	-0.000	-0.002	-0.002	-0.002	-0.002	0.001
Coil 2 Q	-0.005	-0.002	0.002	0.002	-0.003	-0.003	-0.004	-0.004
Coil 3 R	0.002	0.003	-0.001	0.001	0.000	-0.002	0.001	0.001
Coil 3 Q	-0.006	-0.003	-0.003	0.001	0.000	0.001	0.002	-0.000
Coil 4 R	-0.008	-0.004	-0.003	-0.001	-0.006	-0.003	-0.003	0.001
Coil 4 Q	-0.007	0.000	-0.004	-0.004	-0.002	-0.003	-0.006	-0.004
Coil 5 R	-0.003	0.001	-0.002	0.003	0.004	0.006	-0.007	-0.012
Coil 5 Q	-0.002	0.001	0.010	0.004	0.005	-0.002	-0.002	0.001
Coil 6 R	-0.034	-0.006	-0.009	-0.012	-0.008	-0.007	0.008	0.011
Coil 6 Q	-0.010	0.001	0.024	-0.013	0.003	-0.016	-0.011	-0.001

ELEC. GAINS	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	126.11	124.64	122.24	118.48	113.56	107.91	101.28	93.90
Coil 0 P	7.448	23.500	39.301	54.997	70.700	86.260	101.908	117.269
Coil 1 M	219.09	216.78	212.05	205.26	196.38	186.08	174.19	161.17
Coil 1 P	7.549	23.800	39.808	55.693	71.569	87.237	102.964	118.412
Coil 2 M	444.93	440.18	430.40	416.54	398.44	377.61	353.39	327.57
Coil 2 P	7.630	24.032	40.155	56.176	72.143	87.938	103.734	119.260
Coil 3 M	719.57	712.84	699.30	679.20	652.25	620.51	582.24	540.11
Coil 3 P	7.681	24.254	40.614	56.915	73.300	89.566	105.945	122.089
Coil 4 M	1119.8	1109.4	1088.0	1057.0	1015.3	966.7	908.8	844.8
Coil 4 P	7.720	24.307	40.679	56.997	73.353	89.590	105.946	122.061
Coil 5 M	2304.7	2277.9	2223.1	2146.4	2046.6	1933.6	1803.4	1663.5
Coil 5 P	6.193	25.728	42.971	60.080	77.113	93.951	110.822	127.394

Coil 6 M	6001.9 4700.0 7100.0	5935.7 4700.0 7000.0	5801.5 4800.0 8000.0	5609.6 4400.0 8800.0	5357.7 4200.0 8400.0	5064.4 4000.0 8000.0	4723.8 3700.0 6800.0	4353.1 3400.0 6100.0
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 96.000	93.808 80.000 120.000	110.766 94.000 140.000	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 -200 600	-123 -800 100	-183 -600 0	-194 -600 0	-196 -600 0	-195 -600 0	-193 -900 0	-192 -600 0
Coil 0 Q	2218 -3000 8000	758 -1000 2000	437 -1000 1200	288 -600 800	168 -400 600	95 -400 600	39 -400 400	-8 -400 300
Coil 1 R	534 450 650	64 20 115	6 -30 45	-12 -50 20	-21 -55 0	-25 -80 0	-27 -80 0	-29 -80 0
Coil 1 Q	1747 0 2900	656 0 800	400 0 600	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 61.0	5.8 -10.0 25.0	-0.5 -15.0 15.0	-2.9 -18.0 10.0	-4.5 -18.0 7.0	-5.2 -18.0 5.0	-5.7 -18.0 3.0
Coil 2 Q	542.4 -800.0 1000.0	207.7 0.0 350.0	130.1 0.0 230.0	95.8 0.0 180.0	76.6 0.0 150.0	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 62.0	4.5 0.0 12.0	-0.0 -3.0 6.0	-1.6 -4.0 4.0	-2.5 -5.0 2.0	-3.0 -5.0 1.0	-2.8 -6.0 1.0	-2.3 -6.0 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 60.0	22.6 -10.0 60.0	22.8 -10.0 60.0	24.0 -10.0 60.0
Coil 4 R	11.05 2.00 18.00	0.28 -3.00 6.00	-0.99 -3.50 3.00	-1.15 -3.20 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 30.00	10.33 -20.00 40.00	11.57 -10.00 40.00	13.29 -10.00 40.00	15.36 -10.00 40.00	17.53 -10.00 30.00	19.54 -10.00 50.00
Coil 5 R	1.92 -2.00 6.00	-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 38.00	10.28 -20.00 46.00	12.41 -20.00 60.00	14.72 -20.00 80.00	16.85 -30.00 70.00
Coil 6 R	-1.37 -4.80 1.80	-0.80 -5.70 3.80	-0.70 -6.50 4.80	-0.50 -6.20 5.40	-0.64 -7.30 5.50	-0.63 -7.50 6.00	-0.64 -7.70 6.10	-0.64 -7.90 6.30
Coil 6 Q	1.44 -30.00 30.00	3.05 -20.00 25.00	5.27 -20.00 35.00	7.39 -30.00 30.00	9.72 -35.00 60.00	11.89 -40.00 70.00	14.17 -30.00 60.00	16.41 -50.00 100.00

MM Factor	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 M	1.011 0.900 1.100	1.009 0.900 1.100	1.005 0.900 1.100	1.004 0.900 1.100	1.003 0.900 1.100	1.002 0.900 1.100	1.002 0.900 1.100	1.003 0.900 1.100
Coil 0 P	0.276 -2.000 2.000	0.248 -2.000 2.000	0.311 -2.000 2.000	0.219 -2.000 2.000	0.145 -2.000 2.000	0.105 -2.000 2.000	0.047 -2.000 2.000	-0.034 -2.000 2.000
Coil 1 M	0.991 0.900 1.100	0.989 0.900 1.100	0.984 0.900 1.100	0.984 0.900 1.100	0.982 0.900 1.100	0.981 0.900 1.100	0.981 0.900 1.100	0.981 0.900 1.100
Coil 1 P	0.179 -2.000 2.000	0.280 -2.000 2.000	0.337 -2.000 2.000	0.327 -2.000 2.000	0.319 -2.000 2.000	0.236 -2.000 2.000	0.216 -2.000 2.000	0.188 -2.000 2.000
Coil 2 M	1.017 0.900 1.100	1.014 0.900 1.100	1.013 0.900 1.100	1.012 0.900 1.100	1.012 0.900 1.100	1.011 0.900 1.100	1.009 0.900 1.100	1.009 0.900 1.100
Coil 2 P	0.165 -2.000 2.000	0.143 -2.000 2.000	0.146 -2.000 2.000	0.188 -2.000 2.000	0.231 -2.000 2.000	0.254 -2.000 2.000	0.286 -2.000 2.000	0.275 -2.000 2.000
Coil 3 M	1.021 0.900 1.100	1.020 0.900 1.100	1.020 0.900 1.100	1.019 0.900 1.100	1.019 0.900 1.100	1.019 0.900 1.100	1.019 0.900 1.100	1.018 0.900 1.100
Coil 3 P	0.167 -2.000 2.000	0.103 -2.000 2.000	0.118 -2.000 2.000	0.114 -2.000 2.000	0.123 -2.000 2.000	0.075 -2.000 2.000	0.129 -2.000 2.000	0.108 -2.000 2.000
Coil 4 M	1.030 0.900 1.100	1.029 0.900 1.100	1.028 0.900 1.100	1.027 0.900 1.100	1.027 0.900 1.100	1.026 0.900 1.100	1.025 0.900 1.100	1.025 0.900 1.100
Coil 4 P	0.156 -2.000 2.000	0.135 -2.000 2.000	0.135 -2.000 2.000	0.176 -2.000 2.000	0.182 -2.000 2.000	0.165 -2.000 2.000	0.176 -2.000 2.000	0.122 -2.000 2.000
Coil 5 M	1.032 0.900 1.100	1.031 0.900 1.100	1.031 0.900 1.100	1.030 0.900 1.100	1.029 0.900 1.100	1.030 0.900 1.100	1.029 0.900 1.100	1.030 0.900 1.100
Coil 5 P	0.075 -2.000 2.000	0.002 -2.000 2.000	0.039 -2.000 2.000	0.012 -2.000 2.000	-0.059 -2.000 2.000	-0.167 -2.000 2.000	-0.161 -2.000 2.000	-0.194 -2.000 2.000
Coil 6 M	1.027 0.900 1.100	1.028 0.900 1.100	1.026 0.900 1.100	1.024 0.900 1.100	1.023 0.900 1.100	1.029 0.900 1.100	1.029 0.900 1.100	1.028 0.900 1.100
Coil 6 P	0.054 -2.000 2.000	0.213 -2.000 2.000	0.209 -2.000 2.000	0.288 -2.000 2.000	0.218 -2.000 2.000	0.135 -2.000 2.000	0.199 -2.000 2.000	0.067 -2.000 2.000

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

HDIL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1515MA D69832 DATE/TIME PERFORMED: Wed Nov 25 03:56:24 2009 DAYS SINCE CAL: 26
UNIT #: 3885TD ML4232

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

ZERO DATA(mv)	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz
Coil 0 R	0.004 -0.200 0.200	0.005 -0.100 0.100	0.003 -0.100 0.100	0.001 -0.100 0.100	-0.003 -0.100 0.100	-0.002 -0.100 0.100	-0.002 -0.100 0.100	-0.002 -0.100 0.100
Coil 0 Q	0.006 -1.000 1.000	0.008 -0.200 0.200	0.005 -0.100 0.100	0.004 -0.100 0.100	0.003 -0.100 0.100	0.002 -0.100 0.100	-0.001 -0.100 0.100	-0.003 -0.100 0.100
Coil 1 R	0.009 -0.200 0.200	0.010 -0.100 0.100	0.007 -0.100 0.100	0.003 -0.100 0.100	-0.002 -0.100 0.100	-0.004 -0.100 0.100	-0.006 -0.100 0.100	-0.004 -0.100 0.100
Coil 1 Q	0.004 -1.000 1.000	0.008 -0.200 0.200	0.009 -0.100 0.100	0.008 -0.100 0.100	0.007 -0.100 0.100	0.005 -0.100 0.100	-0.001 -0.100 0.100	-0.004 -0.100 0.100
Coil 2 R	0.009 -0.200 0.200	0.006 -0.100 0.100	0.001 -0.100 0.100	0.001 -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
Coil 2 Q	-0.003 -1.000 1.000	-0.001 -0.200 0.200	0.004 -0.100 0.100	0.004 -0.100 0.100	-0.002 -0.100 0.100	-0.003 -0.100 0.100	-0.003 -0.100 0.100	-0.006 -0.100 0.100
Coil 3 R	0.003 -0.100 0.100	0.004 -0.100 0.100	0.002 -0.100 0.100	0.004 -0.100 0.100	0.003 -0.100 0.100	0.001 -0.100 0.100	0.001 -0.100 0.100	0.001 -0.100 0.100
Coil 3 Q	-0.005 -0.600 0.600	0.000 -0.200 0.200	0.007 -0.100 0.100	-0.001 -0.100 0.100	0.000 -0.100 0.100	-0.001 -0.100 0.100	0.003 -0.100 0.100	0.001 -0.100 0.100
Coil 4 R	-0.007 -0.200 0.200	0.004 -0.200 0.200	-0.000 -0.200 0.200	-0.002 -0.200 0.200	-0.009 -0.200 0.200	0.001 -0.200 0.200	-0.002 -0.200 0.200	0.001 -0.200 0.200
Coil 4 Q	-0.006 -1.000 1.000	0.009 -0.400 0.400	0.002 -0.200 0.200	0.001 -0.200 0.200	0.001 -0.200 0.200	-0.003 -0.200 0.200	-0.009 -0.200 0.200	-0.005 -0.200 0.200
Coil 5 R	-0.006 -0.400 0.400	0.007 -0.400 0.400	-0.001 -0.400 0.400	0.003 -0.400 0.400	0.007 -0.400 0.400	-0.002 -0.400 0.400	-0.006 -0.400 0.400	-0.008 -0.400 0.400
Coil 5 Q	-0.010 -0.600 0.600	-0.003 -0.200 0.200	0.002 -0.400 0.400	0.004 -0.400 0.400	0.005 -0.400 0.400	0.004 -0.400 0.400	0.004 -0.400 0.400	-0.001 -0.400 0.400
Coil 6 R	-0.025 -1.000 1.000	0.022 -1.000 1.000	0.001 -1.000 1.000	0.000 -1.000 1.000	0.022 -1.000 1.000	0.011 -1.000 1.000	0.008 -1.000 1.000	0.010 -1.000 1.000
Coil 6 Q	-0.037 -0.600 0.600	0.030 -2.000 2.000	-0.009 -1.000 1.000	0.002 -1.000 1.000	-0.005 -1.000 1.000	-0.013 -1.000 1.000	-0.007 -1.000 1.000	-0.011 -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	126.30 100.00 160.00	124.99 100.00 160.00	122.32 98.00 160.00	118.49 94.00 140.00	113.45 92.00 140.00	107.60 87.00 130.00	100.76 82.00 120.00	93.28 78.00 110.00
Coil 0 P	7.518 6.000 9.000	23.710 18.000 26.000	39.634 32.000 47.000	55.466 44.000 68.000	71.299 57.000 89.000	86.936 70.000 100.000	102.662 82.000 120.000	118.009 95.000 140.000
Coil 1 M	219.42 180.00 270.00	217.05 180.00 270.00	212.15 170.00 260.00	205.20 170.00 260.00	196.08 160.00 250.00	185.53 160.00 230.00	173.29 160.00 220.00	160.02 140.00 200.00
Coil 1 P	7.619 8.000 9.000	24.019 19.000 28.000	40.155 32.000 48.000	56.178 46.000 68.000	72.154 57.000 88.000	87.950 70.000 110.000	103.697 83.000 120.000	119.193 98.000 140.000
Coil 2 M	445.33 360.00 540.00	440.34 360.00 540.00	430.21 350.00 530.00	415.91 340.00 510.00	397.31 330.00 500.00	376.08 310.00 470.00	351.47 300.00 440.00	324.89 270.00 410.00
Coil 2 P	7.716 6.000 9.000	24.268 18.000 28.000	40.530 32.000 46.000	56.676 45.000 67.000	72.741 58.000 87.000	88.618 71.000 110.000	104.482 84.000 130.000	120.017 86.000 140.000
Coil 3 M	722.37 660.00 880.00	715.27 680.00 870.00	701.17 670.00 860.00	680.49 660.00 850.00	652.62 630.00 800.00	619.82 600.00 780.00	580.45 470.00 710.00	537.21 440.00 680.00
Coil 3 P	7.766 8.000 10.000	24.496 20.000 29.000	40.995 33.000 49.000	57.436 46.000 69.000	73.935 59.000 89.000	90.311 72.000 110.000	106.752 85.000 130.000	122.927 88.000 150.000
Coil 4 M	1123.0 900.0 1400.0	1112.0 900.0 1300.0	1089.6 900.0 1300.0	1057.3 850.0 1300.0	1014.4 800.0 1200.0	964.2 800.0 1200.0	904.7 790.0 1100.0	839.1 700.0 1000.0
Coil 4 P	7.808 6.000 10.000	24.554 20.000 30.000	41.067 35.000 50.000	57.512 46.000 70.000	73.962 60.000 80.000	90.317 73.000 110.000	106.718 86.000 130.000	122.866 89.000 160.000
Coil 5 M	2311.5 1900.0 2800.0	2283.6 1800.0 2800.0	2227.2 1800.0 2700.0	2148.0 1800.0 2600.0	2045.8 1700.0 2500.0	1929.6 1800.0 2400.0	1796.1 1600.0 2200.0	1652.8 1400.0 2100.0
Coil 5 P	8.277 6.000 10.000	25.984 20.000 31.000	43.380 34.000 51.000	60.642 48.000 72.000	77.789 62.000 83.000	94.742 76.000 110.000	111.681 88.000 130.000	128.296 100.000 160.000
Coil 6 M	6010.0 4700.0 7100.0	5939.1 4700.0 7000.0	5800.3 4600.0 6900.0	5603.0 4400.0 6600.0	5343.7 4200.0 6400.0	5045.2 4000.0 6000.0	4696.6 3700.0 5600.0	4319.1 3400.0 6100.0
Coil 6 P	8.119 7.000 10.000	25.805 22.000 32.000	43.145 38.000 54.000	60.361 51.000 78.000	77.527 65.000 98.000	94.564 80.000 120.000	111.571 94.000 140.000	128.275 110.000 160.000

HDIL AFTER LOG VERIFICATION SUMMARY

TOOL #: 1515MA 069B32 DATE/TIME PERFORMED: Wed Nov 25 06:30:00 2009 DAYS SINCE CAL: 26

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	0.003 -0.076 0.084	0.005 -0.065 0.065	0.003 -0.027 0.033	0.001 -0.028 0.031	-0.000 -0.033 0.027	0.001 -0.032 0.028	0.001 -0.032 0.028	0.000 -0.032 0.028
Coil 0 Q	0.006 -0.034 0.048	0.006 -0.112 0.128	0.003 -0.026 0.026	0.004 -0.026 0.034	0.002 -0.027 0.033	-0.000 -0.028 0.032	-0.001 -0.028 0.026	-0.001 -0.033 0.027
Coil 1 R	0.008 -0.071 0.068	0.008 -0.040 0.060	0.006 -0.023 0.037	0.002 -0.027 0.033	-0.000 -0.032 0.028	-0.002 -0.034 0.029	-0.002 -0.038 0.024	-0.001 -0.034 0.028
Coil 1 Q	0.004 -0.386 0.404	0.006 -0.082 0.108	0.005 -0.021 0.028	0.009 -0.022 0.038	0.005 -0.023 0.037	0.002 -0.028 0.030	-0.002 -0.031 0.029	-0.005 -0.034 0.026
Coil 2 R	0.002 -0.081 0.070	0.003 -0.034 0.038	-0.002 -0.038 0.031	0.000 -0.028 0.031	0.002 -0.031 0.028	0.002 -0.030 0.029	0.001 -0.031 0.029	0.003 -0.028 0.032

Coil 2 Q	-0.005 -0.353 0.347	-0.005 -0.101 0.096	-0.001 -0.048 0.034	0.000 -0.026 0.034	-0.003 -0.032 0.028	-0.003 -0.033 0.027	-0.003 -0.033 0.027	-0.002 -0.036 0.034
Coil 3 R	-0.006 -0.037 0.043	-0.002 -0.035 0.044	0.002 -0.038 0.042	0.001 -0.036 0.044	0.005 -0.037 0.043	0.005 -0.038 0.041	0.003 -0.038 0.041	0.001 -0.038 0.041
Coil 3 Q	-0.002 -0.206 0.185	-0.001 -0.080 0.080	-0.005 -0.033 0.047	-0.002 -0.041 0.039	-0.005 -0.040 0.040	0.002 -0.041 0.039	0.006 -0.037 0.043	-0.001 -0.038 0.041
Coil 4 R	0.003 -0.087 0.083	-0.004 -0.058 0.064	-0.001 -0.080 0.080	-0.001 -0.082 0.058	-0.007 -0.089 0.081	-0.002 -0.059 0.081	0.001 -0.082 0.058	0.003 -0.059 0.081
Coil 4 Q	0.001 -0.308 0.284	0.000 -0.091 0.109	0.004 -0.058 0.062	0.007 -0.058 0.061	-0.005 -0.059 0.061	-0.010 -0.053 0.057	-0.006 -0.059 0.061	-0.002 -0.065 0.055
Coil 5 R	-0.005 -0.126 0.114	0.009 -0.113 0.127	-0.001 -0.121 0.118	0.008 -0.117 0.123	-0.003 -0.113 0.127	-0.002 -0.122 0.118	-0.001 -0.128 0.115	-0.008 -0.128 0.112
Coil 5 Q	0.010 -0.810 0.590	0.001 -0.253 0.247	0.002 -0.118 0.125	0.011 -0.118 0.124	-0.001 -0.115 0.125	0.012 -0.118 0.124	0.003 -0.118 0.124	0.008 -0.121 0.119
Coil 6 R	0.016 -0.328 0.275	-0.009 -0.276 0.322	-0.028 -0.289 0.301	-0.000 -0.300 0.300	-0.024 -0.276 0.322	0.011 -0.269 0.311	-0.009 -0.282 0.306	0.005 -0.289 0.310
Coil 6 Q	-0.007 -1.037 1.463	0.007 -0.670 0.630	0.005 -0.308 0.281	-0.008 -0.289 0.302	0.000 -0.300 0.285	-0.006 -0.313 0.287	-0.003 -0.307 0.283	-0.018 -0.311 0.288

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

Coil 0 M	126.86 123.77 128.82	125.30 122.49 127.48	122.55 119.87 124.78	118.86 118.12 120.88	113.51 111.18 116.72	107.59 105.46 109.78	100.54 98.74 102.77	92.97 91.42 95.15
Coil 0 P	7.605 4.518 10.518	23.986 20.710 26.710	40.084 36.634 42.834	56.064 50.466 58.468	72.055 68.259 74.298	87.809 83.939 89.939	103.624 99.684 105.893	119.120 115.009 124.608
Coil 1 M	219.96 215.03 223.81	217.49 212.71 221.38	212.49 207.83 216.42	205.43 201.10 209.30	196.12 192.15 200.00	185.46 181.62 189.24	172.89 168.83 178.76	159.47 156.62 163.22
Coil 1 P	7.704 4.919 10.819	24.293 21.019 27.019	40.605 37.158 43.156	56.762 53.178 59.178	72.917 69.164 75.164	88.805 84.950 90.950	104.704 100.987 108.897	120.269 116.183 122.193
Coil 2 M	446.16 438.43 454.34	440.94 431.53 449.15	430.50 421.80 438.81	416.00 407.50 424.33	397.05 389.38 405.36	375.42 368.59 383.80	350.20 344.44 358.50	323.21 318.40 331.39
Coil 2 P	7.810 4.716 10.716	24.560 21.289 27.289	41.002 37.530 43.530	57.293 53.676 59.676	73.530 69.741 75.741	89.502 85.818 91.818	105.502 101.462 107.462	121.071 117.017 123.017
Coil 3 M	725.26 707.82 736.82	717.68 700.85 729.07	703.35 687.15 718.18	682.24 666.88 694.10	653.70 638.06 666.67	620.31 607.43 632.22	579.94 568.85 592.05	535.97 526.46 547.85
Coil 3 P	7.853 4.788 10.788	24.767 21.498 27.498	41.434 37.995 43.995	58.014 54.438 60.438	74.687 70.935 78.935	91.149 87.311 93.311	107.695 103.752 109.752	123.960 119.927 125.927
Coil 4 M	1127.1 1100.6 1148.5	1115.4 1089.7 1134.2	1092.2 1067.7 1111.4	1059.2 1036.2 1076.5	1015.1 994.1 1034.7	963.9 944.9 983.9	902.7 886.6 922.6	836.2 822.3 859.9
Coil 4 P	7.903 4.808 10.808	24.843 21.584 27.584	41.538 38.067 44.067	58.123 54.612 60.612	74.756 70.982 76.982	91.179 87.317 93.317	107.713 103.718 109.718	123.913 119.866 125.866
Coil 5 M	2318.5 2286.3 2387.8	2289.6 2239.0 2329.3	2231.8 2182.8 2271.7	2151.5 2106.0 2191.0	2047.3 2004.8 2068.7	1929.7 1891.0 1968.2	1793.3 1760.2 1832.0	1648.8 1619.7 1685.8
Coil 5 P	8.360 5.277 11.277	26.263 22.984 28.984	43.831 40.380 46.382	61.223 57.644 63.642	78.544 74.789 80.789	95.602 91.742 97.742	112.664 108.681 114.881	129.350 125.298 131.298
Coil 6 M	6017.1 5888.8 6130.2	5944.1 5802.3 6037.6	5801.3 5684.3 5918.3	5602.1 5491.0 5718.1	5339.7 5235.9 5430.5	5038.3 4944.2 5146.1	4684.0 4602.7 4780.3	4300.2 4232.7 4405.5
Coil 6 P	8.204 5.119 11.119	26.060 22.905 28.905	43.568 40.148 46.148	60.909 57.381 63.381	78.285 74.627 80.627	95.365 91.654 97.654	112.531 108.671 114.671	129.283 125.276 131.276

INSTRUMENT CONFIGURATION

Source File: /dal1a/575886/k77111-tdg

CABLEHEAD

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

SWIVEL

Series : 3944XD
Mnemonic : SWVL

ITEM SUR



108.75'
CABLEHEAD TOP — 106.00'

Series : 3981XA
Mnemonic : TTRM
Diameter : 3.83'

TEMP MP 97.47'
RM MP 97.22'

WTS COMMON REMOTE

Series : 3514XB
Mnemonic : WTS
Diameter : 3.83'
Weight : 128 lbs
Length : 8.36'

DIGITAL SPECTRALOG

Series : 1329XA
Mnemonic : DSL
Diameter : 3.83'
Weight : 130 lbs
Length : 7.31'

GR MP 84.01'

HIGH DEFINITION INDUCTION TOOL

Series : 1515XA
Mnemonic : HDIL
Diameter : 3.82'
Weight : 415 lbs
Length : 27.13'

SP MP 89.19'

XMTR MP 62.72'

4 ARM BOW SPRING CENTRALIZER

Series : 4341XA
Mnemonic : CENT
Diameter : 3.38'

DIGITAL ORIENTATION

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

ORIENT MP 40.35'

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 27.13'
R7 26.63'
R6 26.13'
R5 25.63'
R4 25.13'
R3 24.63'
R2 24.13'
R1 23.63'

SHEAR WAVE ACOUSTILOG

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'

MONOPOLE T2 15.13'
QUADRUPOLE T5 15.13'
X-DIPOLE T3 13.38'
Y-DIPOLE T4 13.38'
MONOPOLE T1 11.63'

MULTI-POLE ARRAY ACOUSTIC

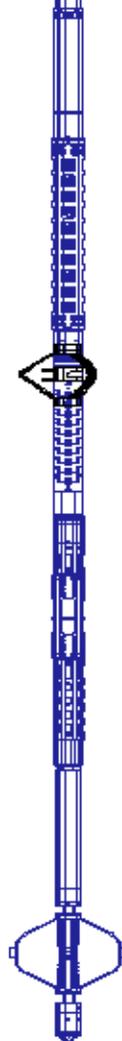
Series : 1678FA
Mnemonic : MAC
Diameter : 3.38"
Weight : 58 lbs

4 ARM BOW SPRING CENTRALIZER

Series : 4341XA
Mnemonic : CENT
Diameter : 3.38"

BULL PLUG 3 3/8

TOTAL LENGTH: 108.75'
TOTAL WEIGHT: 1779 lbs
MAX DIAMETER: 0'4.25"



0.00'



COMPANY SIERRA GEOTHERMAL POWER, INC.
WELL ALUM 25-29
FIELD ALUM
COUNTY ESMERALDA STATE NEVADA

FILE NO: _____
API NO: 27-008-80074



LOCATION:
SHL: 2235.18' FSL & 938.11' FWL
SW/C
SEC 29 TWP 1N RGE 38.5 E

ELEVATIONS:
KB 4819.57 FT
DF
GL 4803.57 FT
DATE 25-NOV-2008

TIGHT HOLE