

BAKER HUGHES

HIGH DEFINITION INDUCTION LOG GAMMA RAY LOG CALIPER LOG

Baker Atlas

FILE NO:

COMPANY

SIERRA GEOTHERMAL POWER, INC.

API NO:

WELL

ALUM 25-29

27-008-80074

FIELD

ALUM

Ver. 3.87

LOCATION:

SHL: 2235.18' FSL & 938.11' FWL

TIGHT HOLE

SEC 29

TWP 1N

RGE 28.5 E

OTHER SERVICES

ZK/CN

XUAC

STAR/CBIL

TEMP

PERMANENT DATUM

G.L.

ELEVATION

4803.57 FT

LOG MEASURED FROM

K.B.

18.0 FT

ABOVE P.D.

ELEVATIONS:

KB

4919.57 FT

DF

4803.57 FT

DRILL MEAS. FROM

K.B.

18.0 FT

ABOVE P.D.

OL

4803.57 FT

DATE

TRIP

25-NOV-2008

RUN

TRIP

2

2

SERVICE ORDER

575896

DEPTH DRILLER

3314 FT

DEPTH LOGGER

3313 FT

BOTTOM LOGGED INTERVAL

3301 FT

TOP LOGGED INTERVAL

2100 FT

CASING DRILLER

10.75 IN

2280 FT

2280 FT

CASING LOGGER

9.875 IN

LSND

40 S

DENSITY

8.8 LB/G

9.7

8.03

PH

FLUID LOSS

FLUOLINE

0.885 GPM

0.67.72 DEGF

SOURCE OF SAMPLE

RM AT MEAS. TEMP.

0.828 GPM

0.87.54 DEGF

RM AT MEAS. TEMP.

1.018 GPM

0.88.90 DEGF

SOURCE OF RIF

RAG

MEASURED

MEASURED

RM AT BHT

0.286 GPM

0.218 DEGF

TIME SINCE CIRCULATION

14.5 HOURS

MAX. RECORDED TEMP.

216 DEGF

EQUIP. NO.

LOCATION

IN-4232

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: CYOL WAS COMPUTED USING 8.625" CASING (BVOL AND CYOL 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	3881XA	10217216	FREE
2	2	WTS	3514VR	10200358	FREE

2	2	ISL	1320XA	1020300	FREE
2	2	HDIL	1515EA/VA	1008826/1008832	STAND-OFF
2	2	CENT	4341XA	10211527	FREE
2	2	ORT	4401KB	10165246	CENTRALIZED
2	2	XMAC	1677EA/1678MC	10337374/370238	CENTRALIZED
2	2	ISO	1678PB	10213112	CENTRALIZED
2	2	XMAC XTR	1678EA/1678FA	370234/10199668	CENTRALIZED
2	2	CENT	4341XA	10162851	FREE

MAIN LOG 2"/100FT SCALE

ECLIPS 6.01 Feb 21, 2008

Updates: 1,43

Thu Nov 26 03:43:56 2009

Perpllt /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	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 FIXED SIZE		''	''
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	1in	''	''
	TOOL POSITION	CENTRALIZED		''	''
	Rmd 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

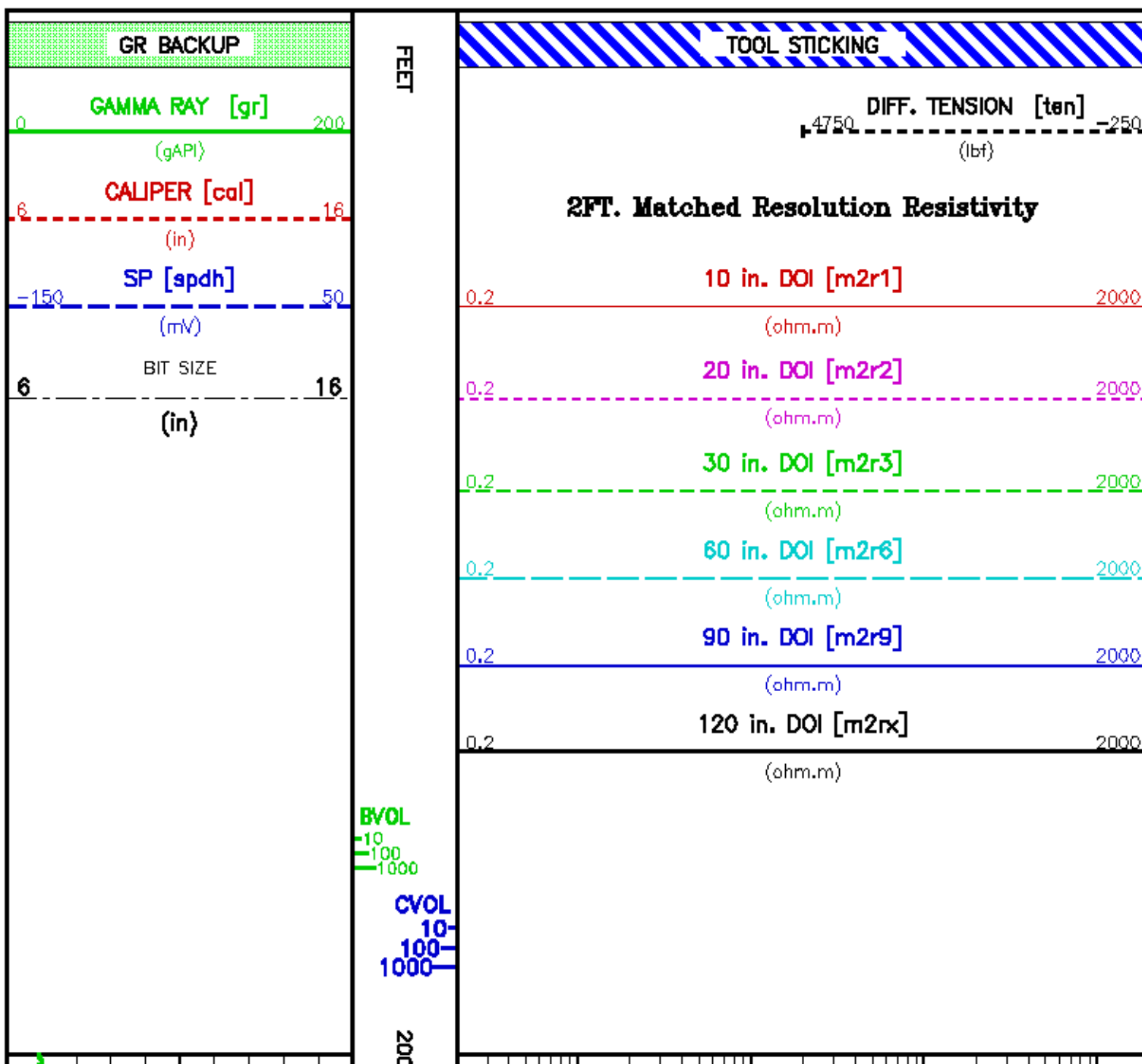
F1:M2R3	M2R3	Nov 25 07:10:29 2009	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 30 INCH
F1:M2R6	M2R6	Nov 25 07:10:29 2009	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 60 INCH
F1:M2R9	M2R9	Nov 25 07:10:29 2009	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 90 INCH
F1:M2R0	M2R0	Nov 25 07:10:29 2009	VERT RESOLUTION MATCHED (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	

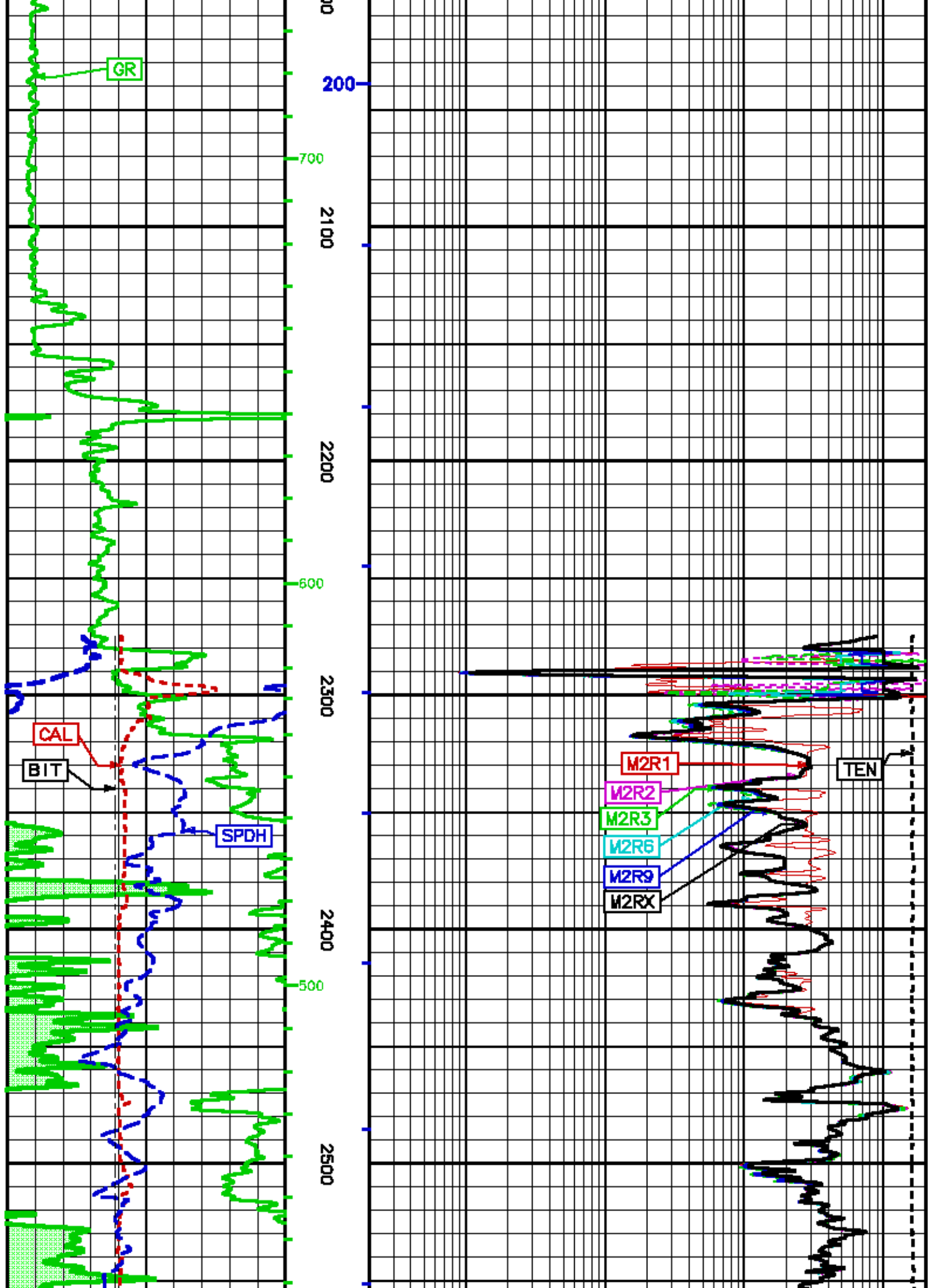
CURVE MEASURE POINT OFFSET

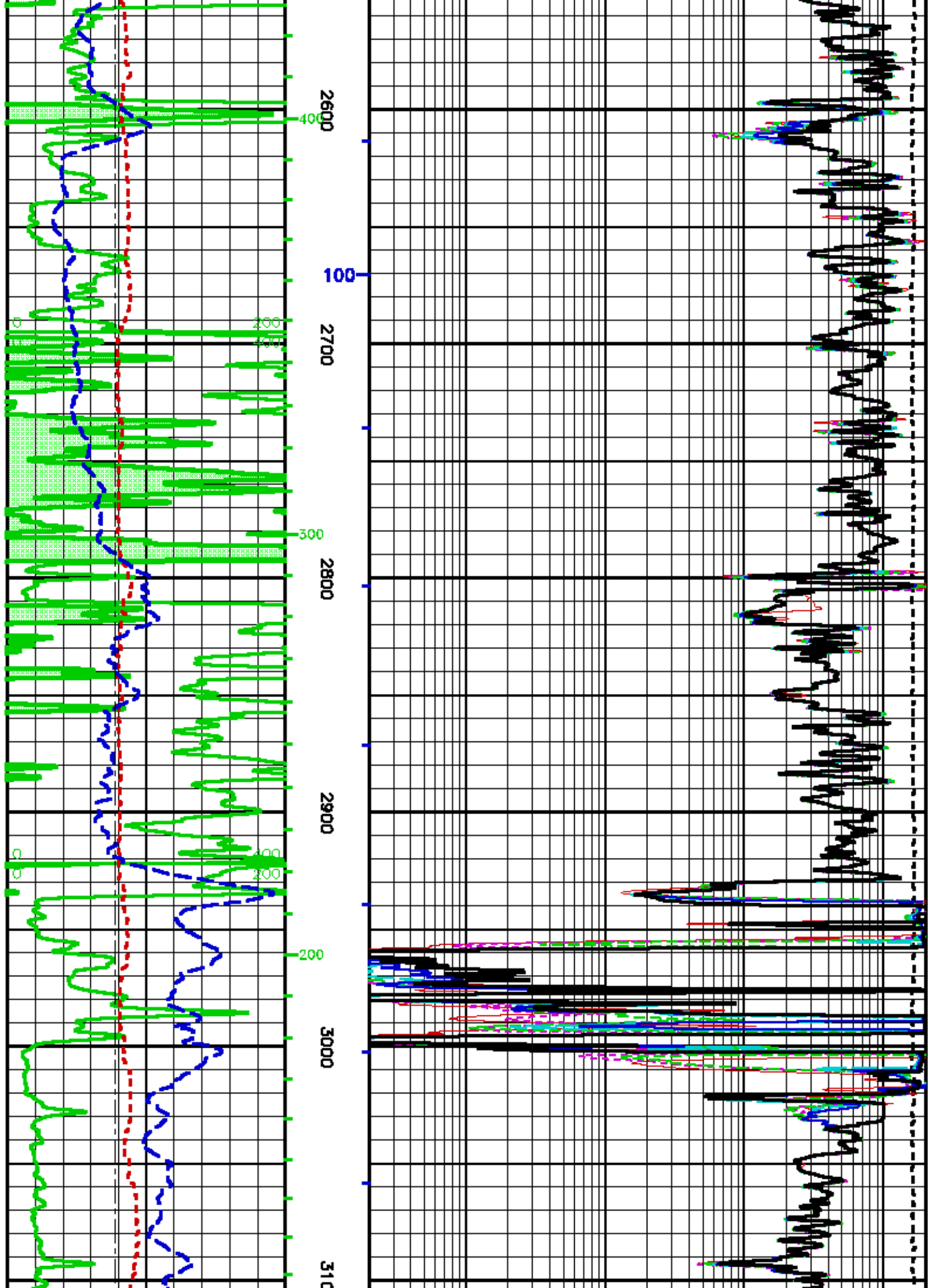
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
BIT	0.00	M2R1	83.00	M2R6	83.00	SPDH	89.00
CAL	89.50	M2R2	83.00	M2R9	83.00	TEN	0.00
GR	83.75	M2R3	83.00	M2R0	83.00		

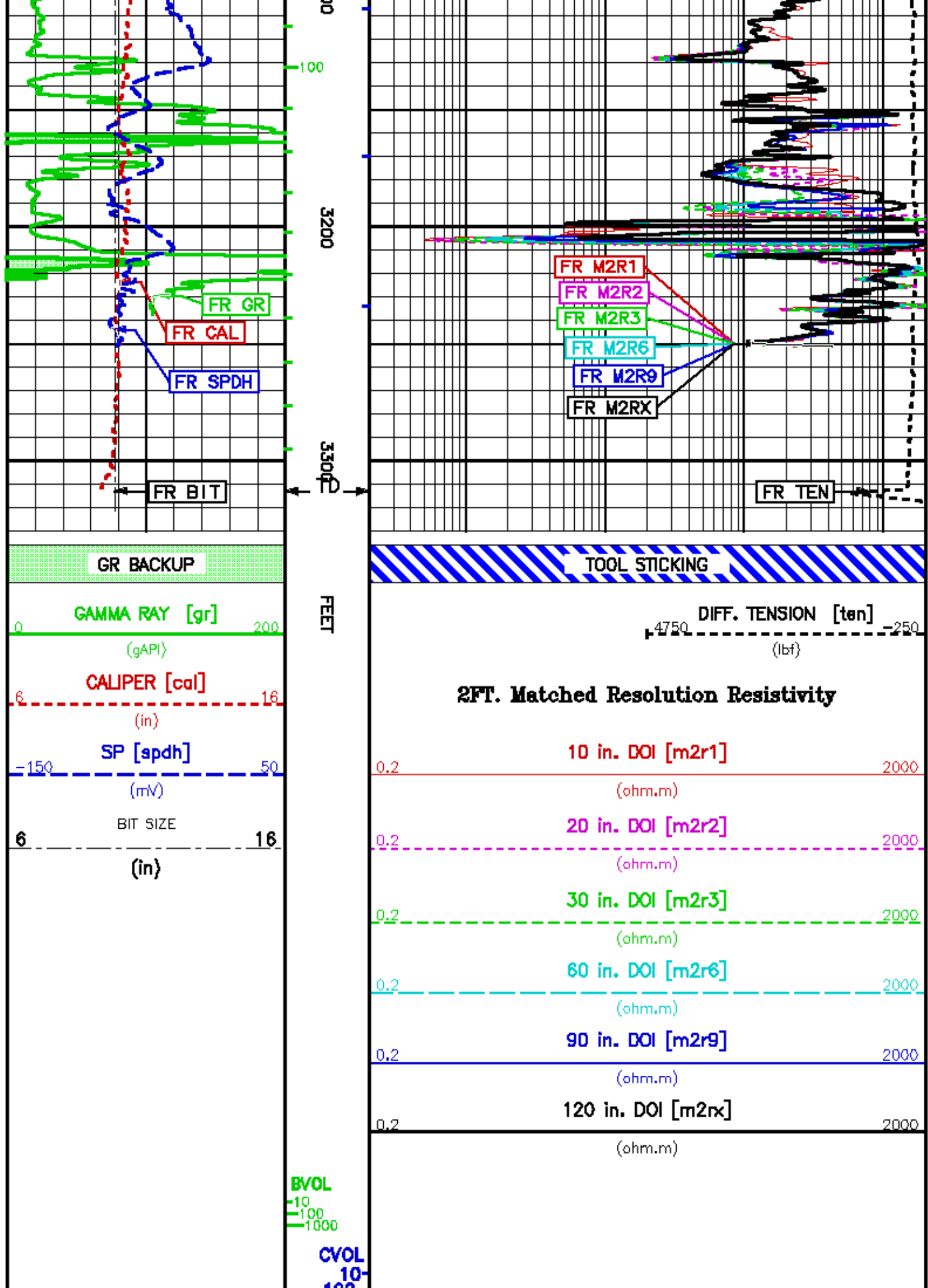
Presentation : eput:/dat/a/575998/HDL_ZIN_MAM.pdf [2"/100' Scale]
 Plot Interval : 2000 - 3323 Feet

Data File 1 : F1 : eput:/dat/a/575998/9_XMAC-HDL-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 - 3323.5 Feet
 Out : k7711









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/575896/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	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 FIXED SIZE		"	"
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 RXTEMP		TOP	BOTTOM
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		"	"
	ABC to CALCULATE	BOREHOLE SIZE		"	"
	STANDOFF	2.00	1in	"	"
	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

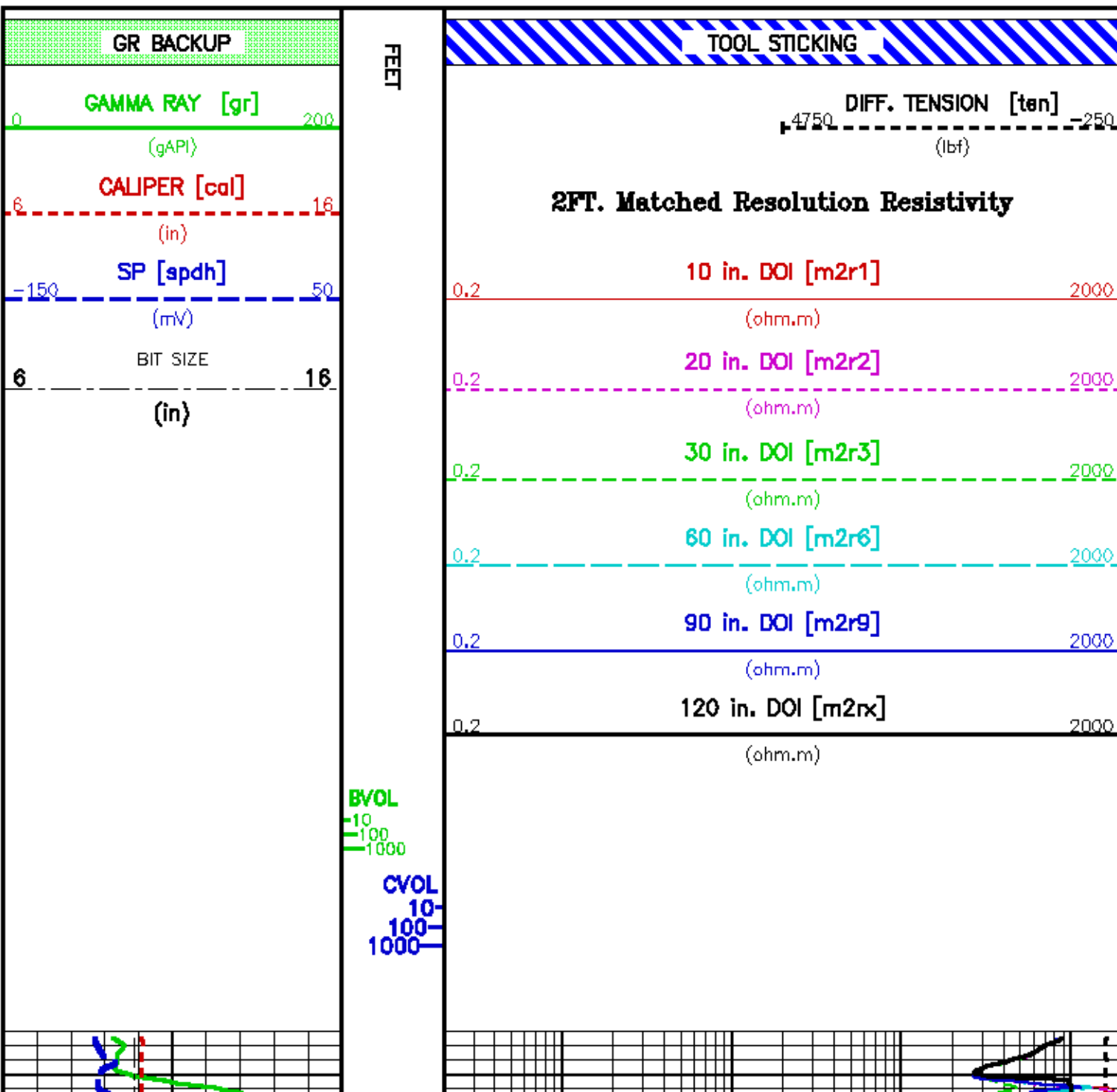
F1:M2RX	M2RX	Nov 25 07:10:29 2009	VERT RESOLUTION MATCHED (2 FT) RES - DOI 120 INCH
F1:SPDH	SP	Nov 25 07:10:29 2009	SPONTANEOUS POTENTIAL PROCESSED IN COMMON REMOTE
F1:TEN	TEN	Nov 25 07:10:29 2009	DIFFERENTIAL TENSION

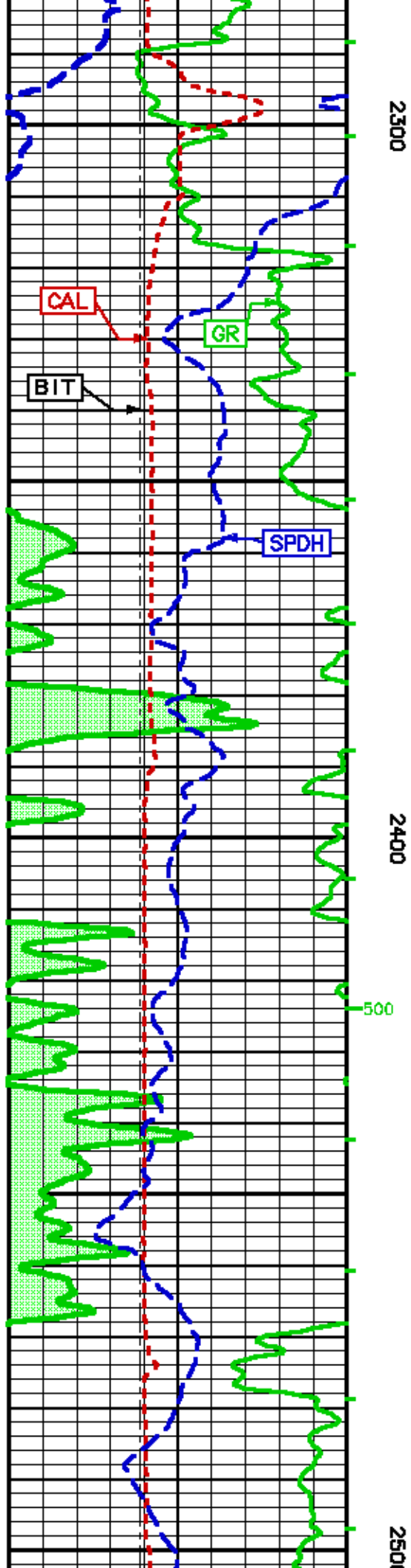
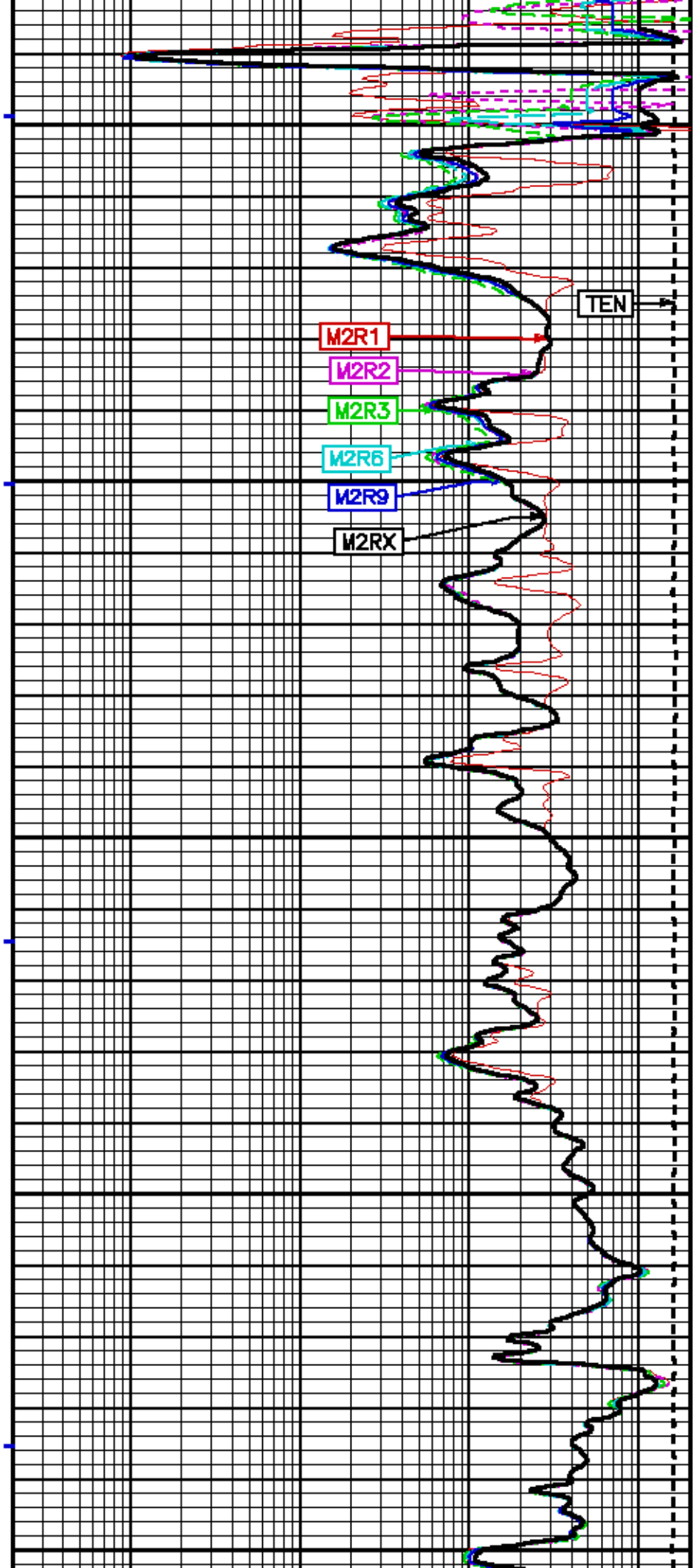
CURVE MEASURE POINT OFFSET

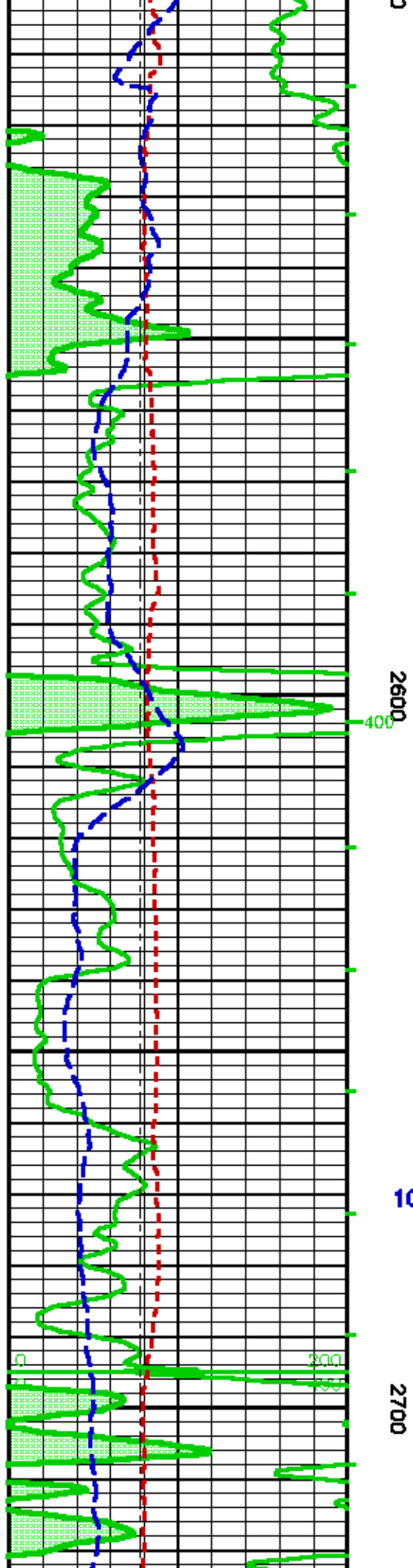
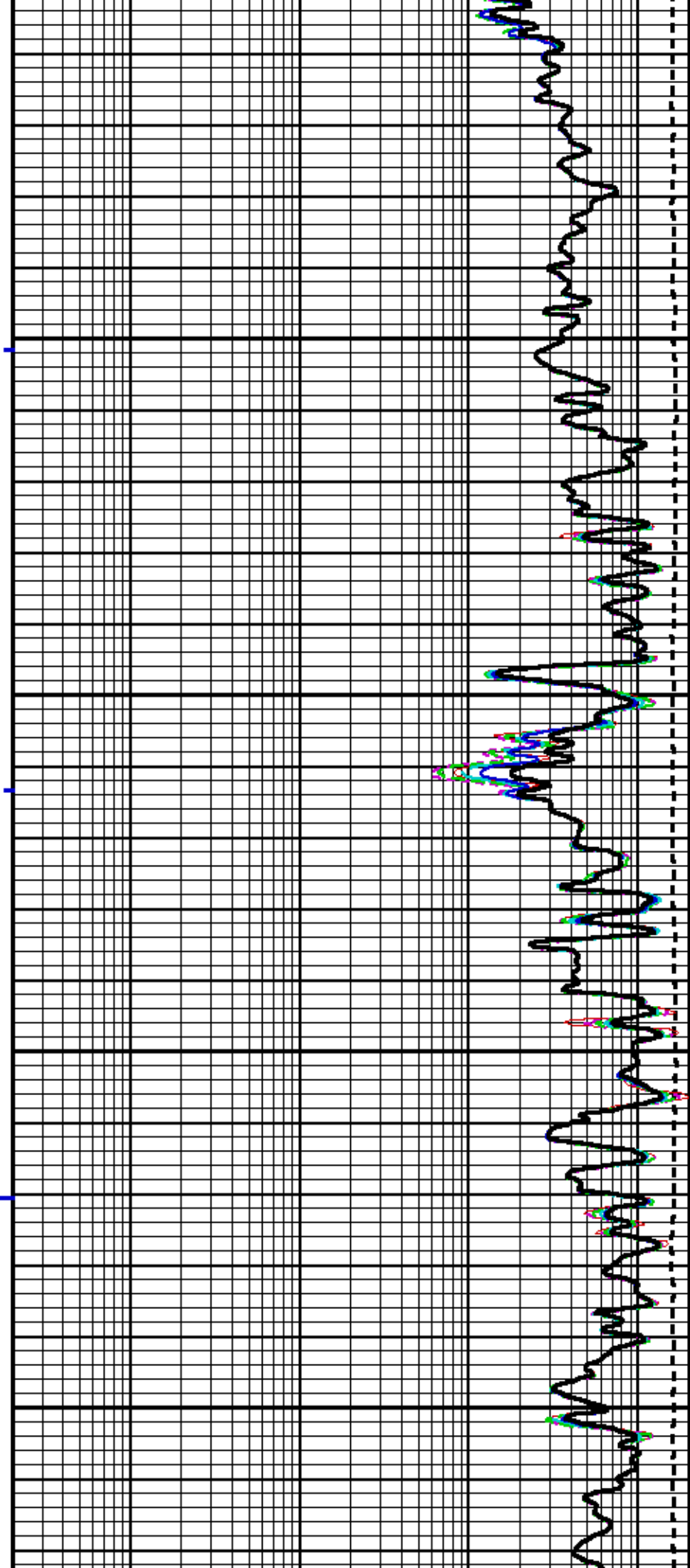
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
BIT	0.00	M2R1	83.00	M2R6	83.00	SPDH	89.00
CAL	89.50	M2R2	83.00	M2R9	83.00	TEN	0.00
GR	83.75	M2R3	83.00	M2RX	83.00		

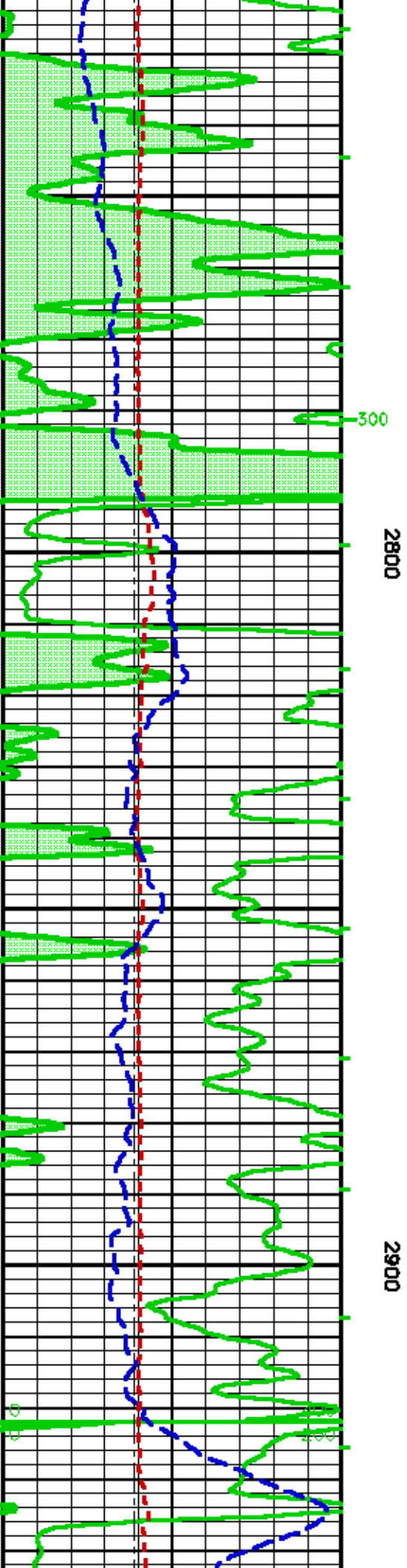
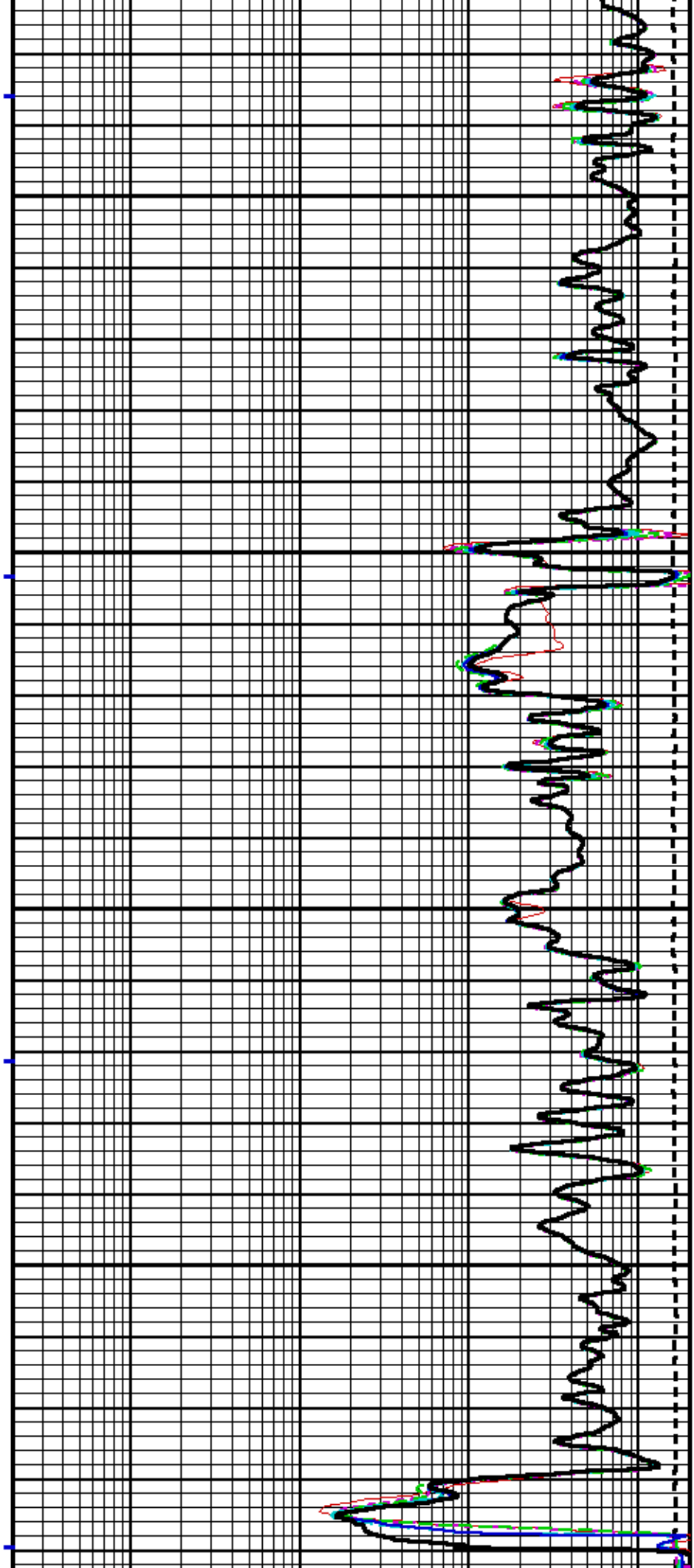
Presentation : opul:/data/575998/HDL_MAIN.pdf [5"/100' Scale]
 Plot Interval : 2275 - 3325 Feet

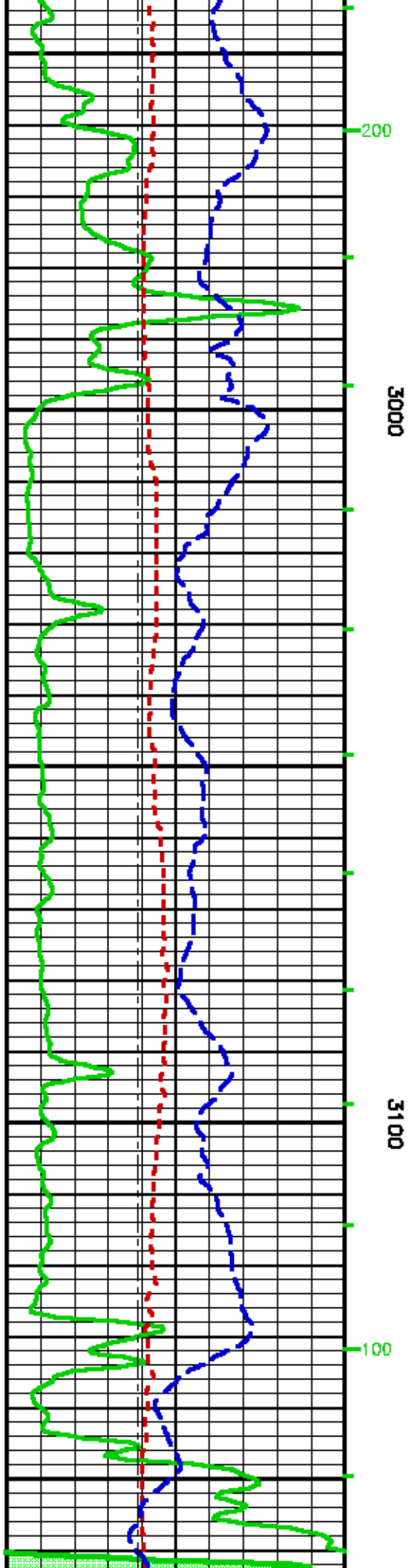
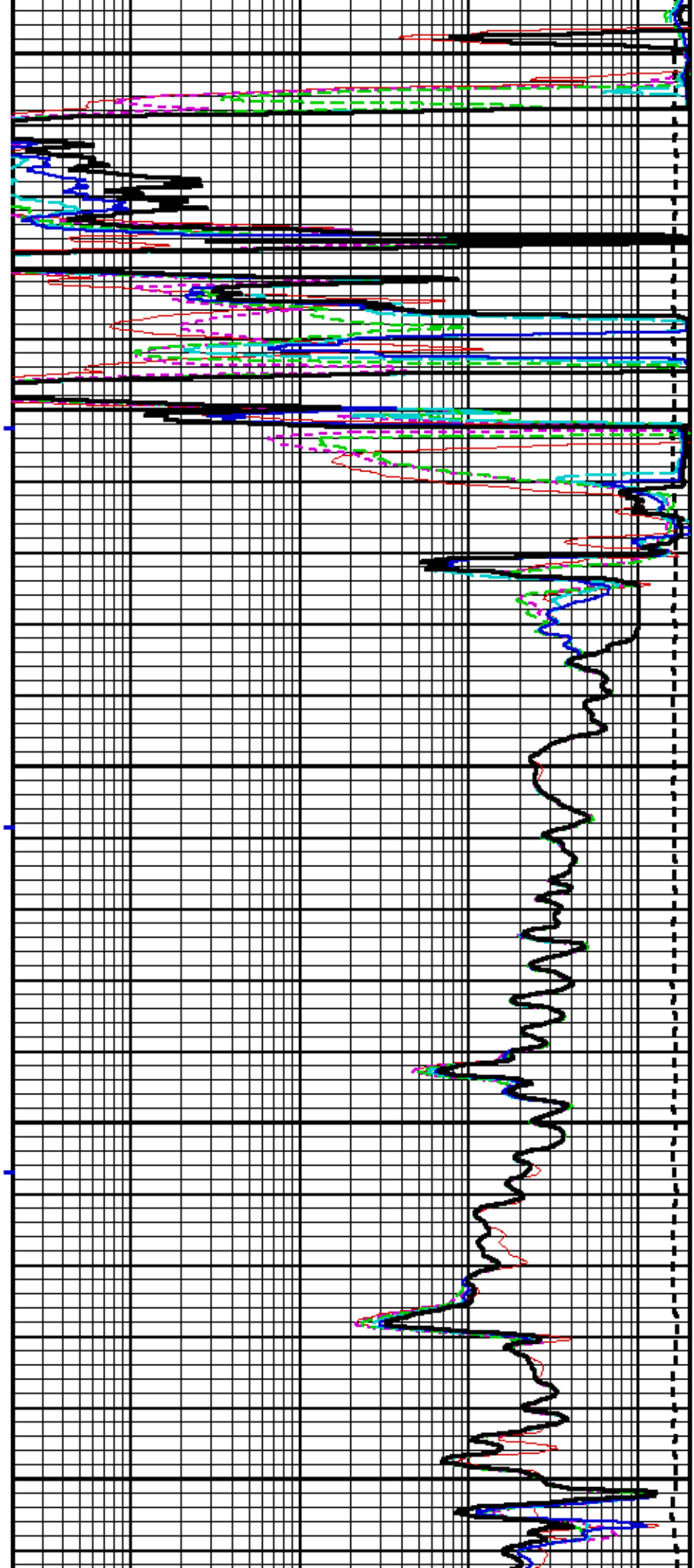
Data File 1 : F1 : opul:/data/575998/2_XMAC-HDL-GR_MAIN.dh
 Created On : Nov 25 07:10:29 2009
 Company : SIERRA GEOTHERMAL POWER, INC.
 Well : ALLIM 25-29
 Field : ALLIM
 File Interval : 1850.75 - 3325.5 Feet
 Out : K7711

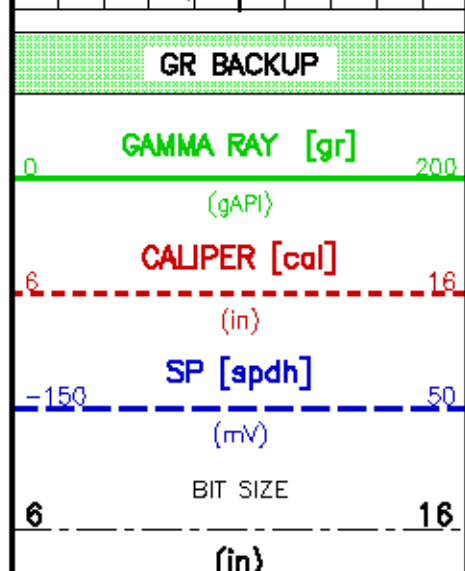
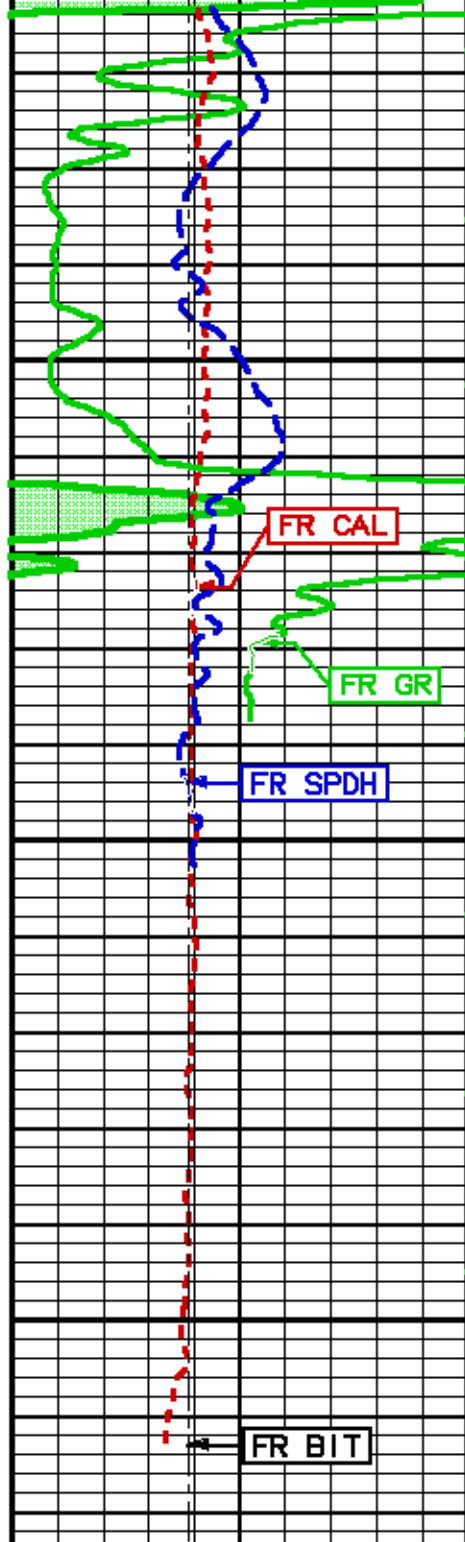










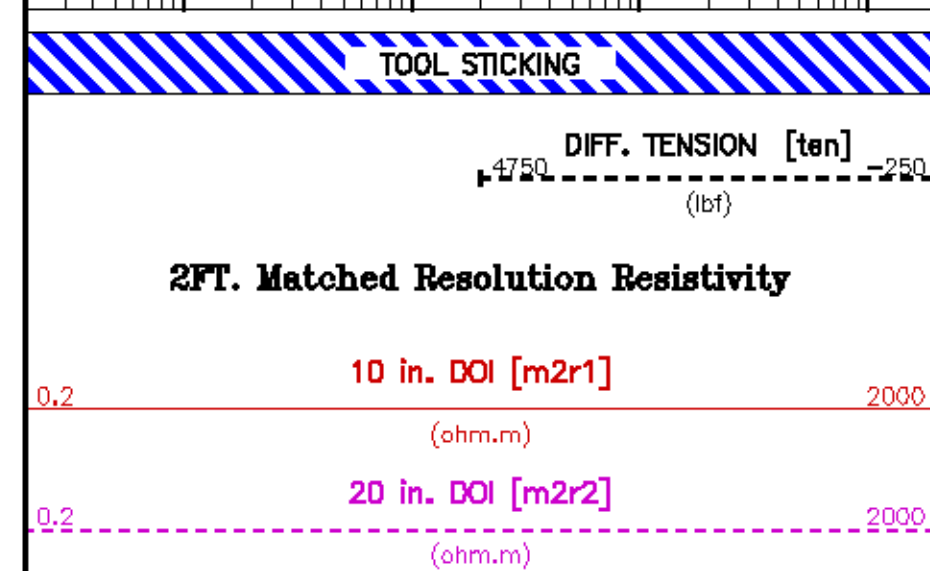
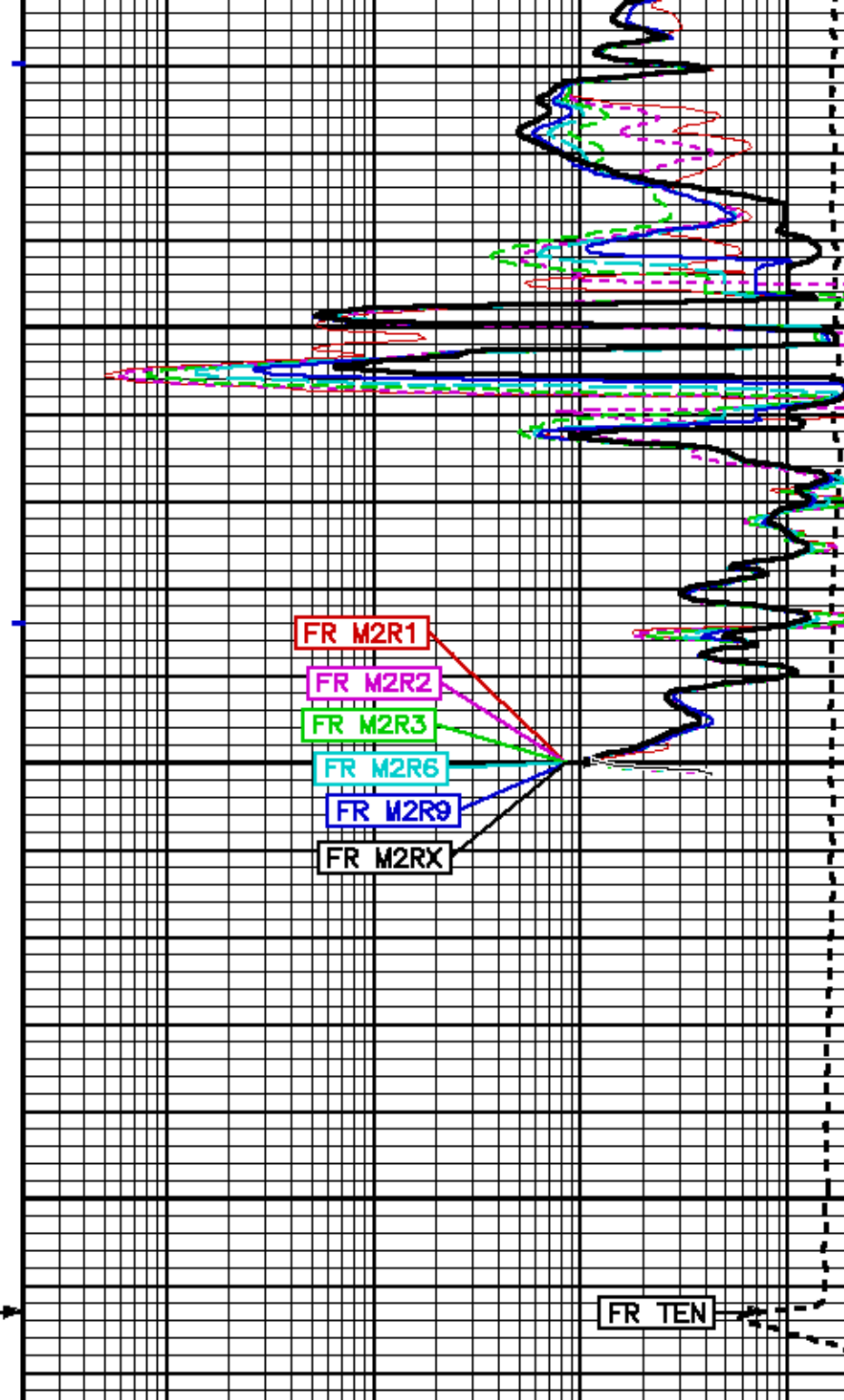


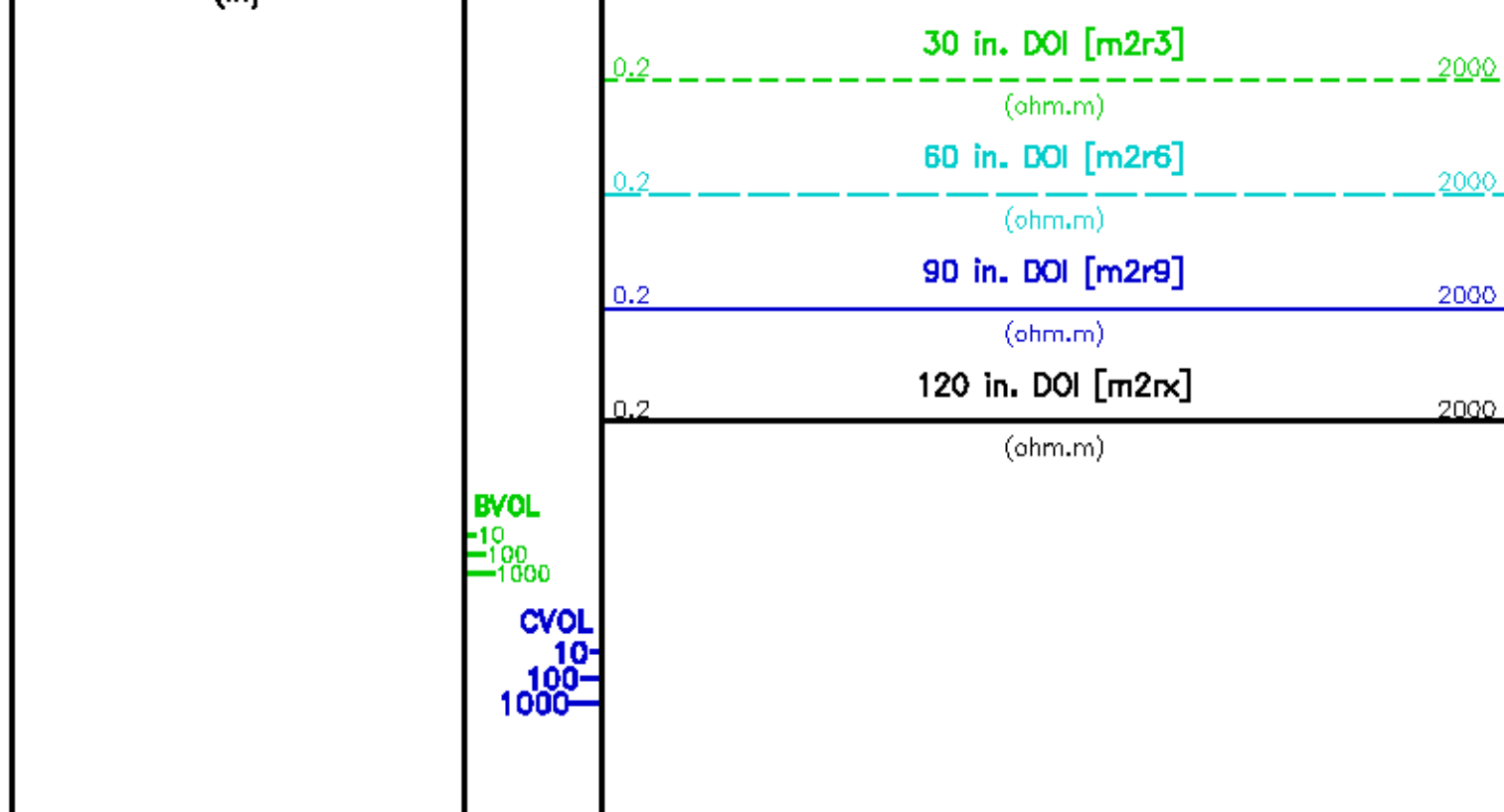
3200

3500

FEET

TD





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: /data/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 (HDL)	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

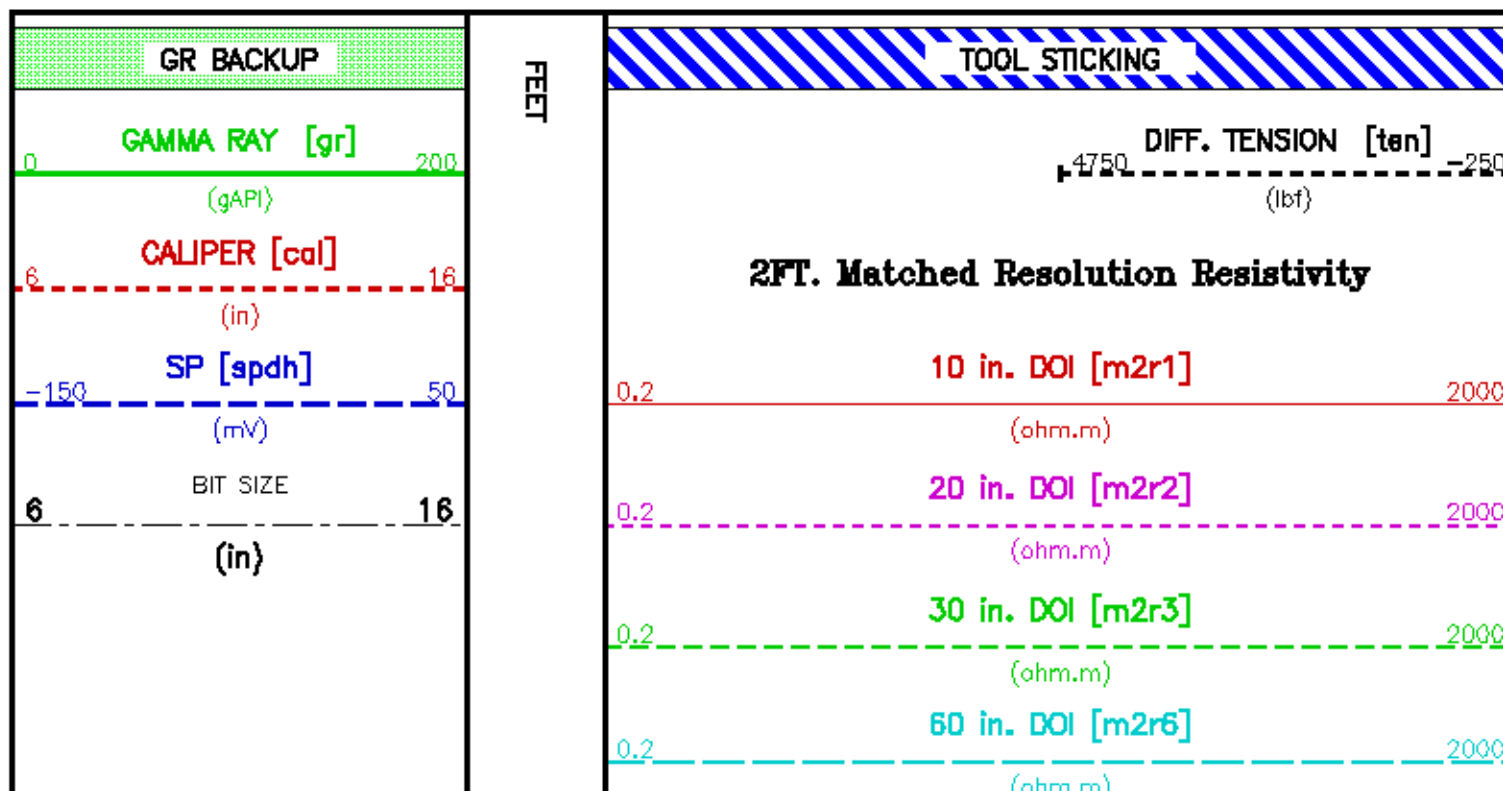
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:BIT	BIT	Nov 25 08:53:27 2009	BIT SIZE
F1:BVOL	BVOL	Nov 25 08:53:27 2009	BOREHOLE VOLUME
F1:CAL	CAL	Nov 25 08:53:27 2009	CALIPER
F1:CVOL	CVOL	Nov 25 08:53:27 2009	CEMENT VOLUME
F1:GR	GR	Nov 25 08:53:27 2009	GAMMA RAY
F1:M2R1	M2R1	Nov 25 08:53:27 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 60 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)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
BIT	0.00	M2R1	63.00	M2R6	63.00	SPDH	69.00
CAL	69.50	M2R2	63.00	M2R9	63.00	TEN	0.00
GR	63.75	M2R3	63.00	M2RX	63.00		

Presentation : epu1:/dat1a/575998/HDIL_REPEAT.pdf [5"/100' Scale]
Plot Interval : 3000 - 3323.5 Feet

Data File 1 : F1 : epu1:/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



0.2

90 in. DOI [m2r9]

2000

(ohm.m)

0.2

120 in. DOI [m2rx]

2000

(ohm.m)

BVOL

10
100
1000

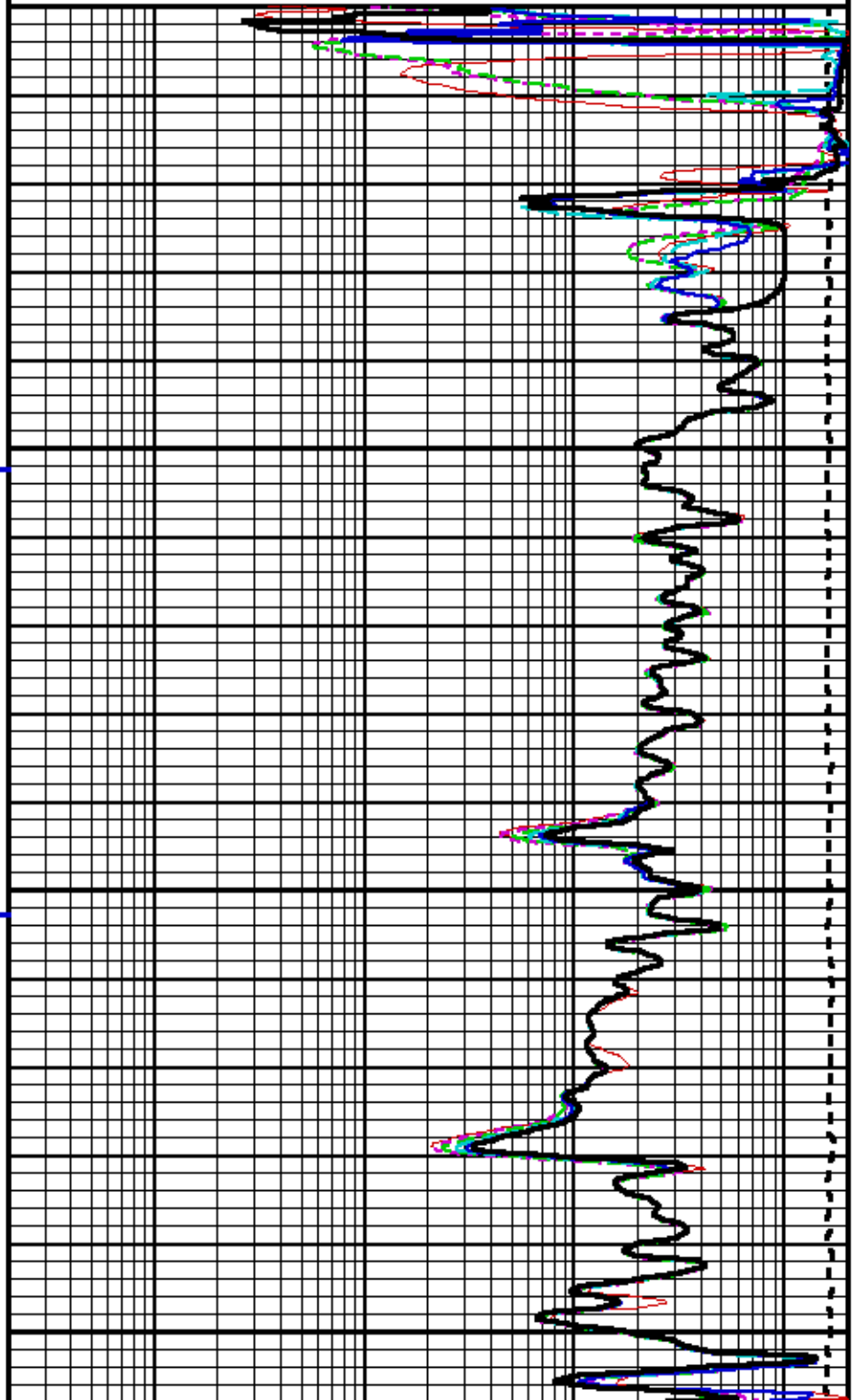
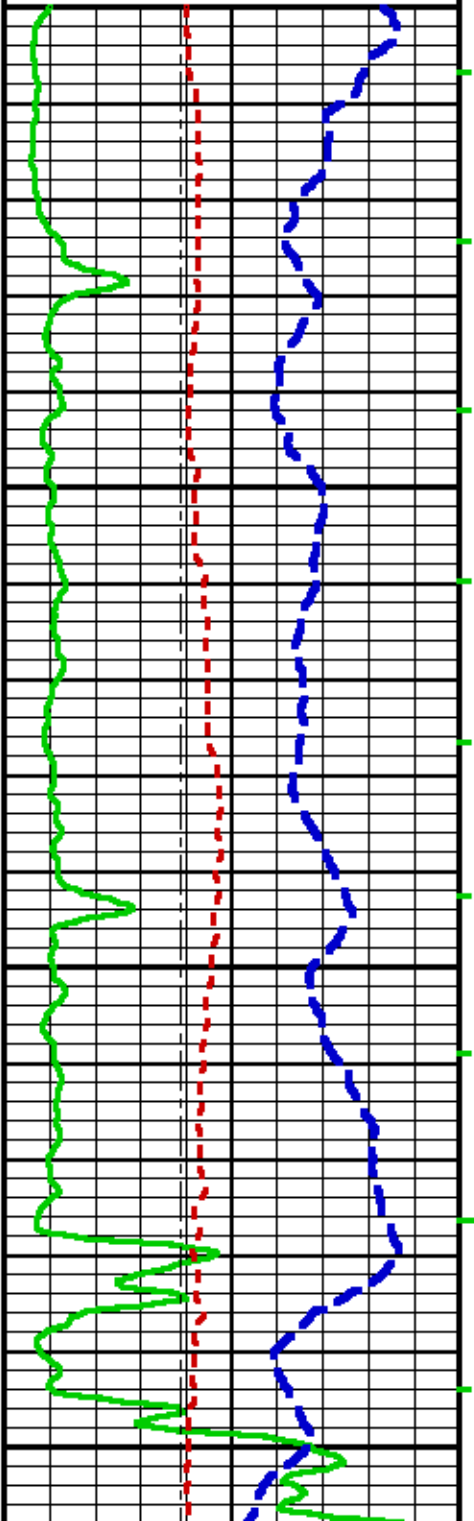
CVOL

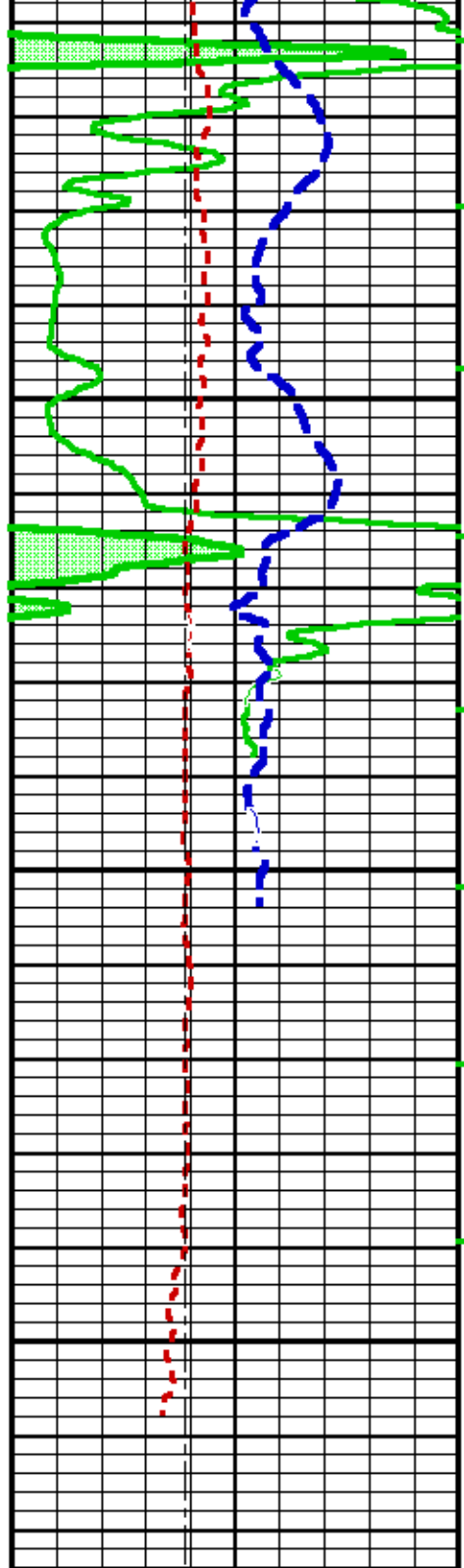
10
100
1000

3000

3100

100





3200

3500

FEET

GR BACKUP

GAMMA RAY [gr] 0 200

(gAPI)

CALIPER [cal] 6 16

(in)

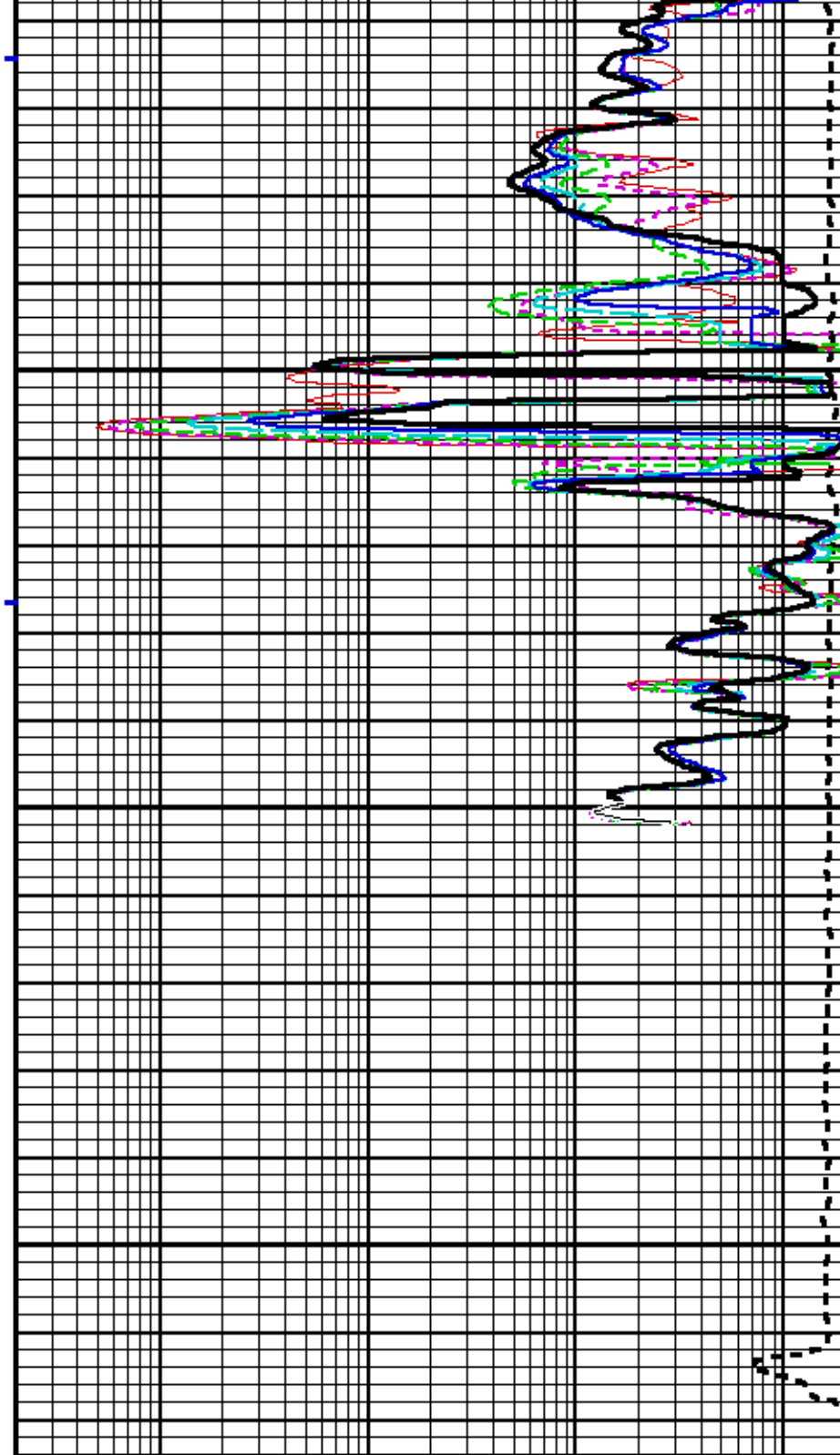
SP [spdh] -150 50

(mV)

BIT SIZE

6

16



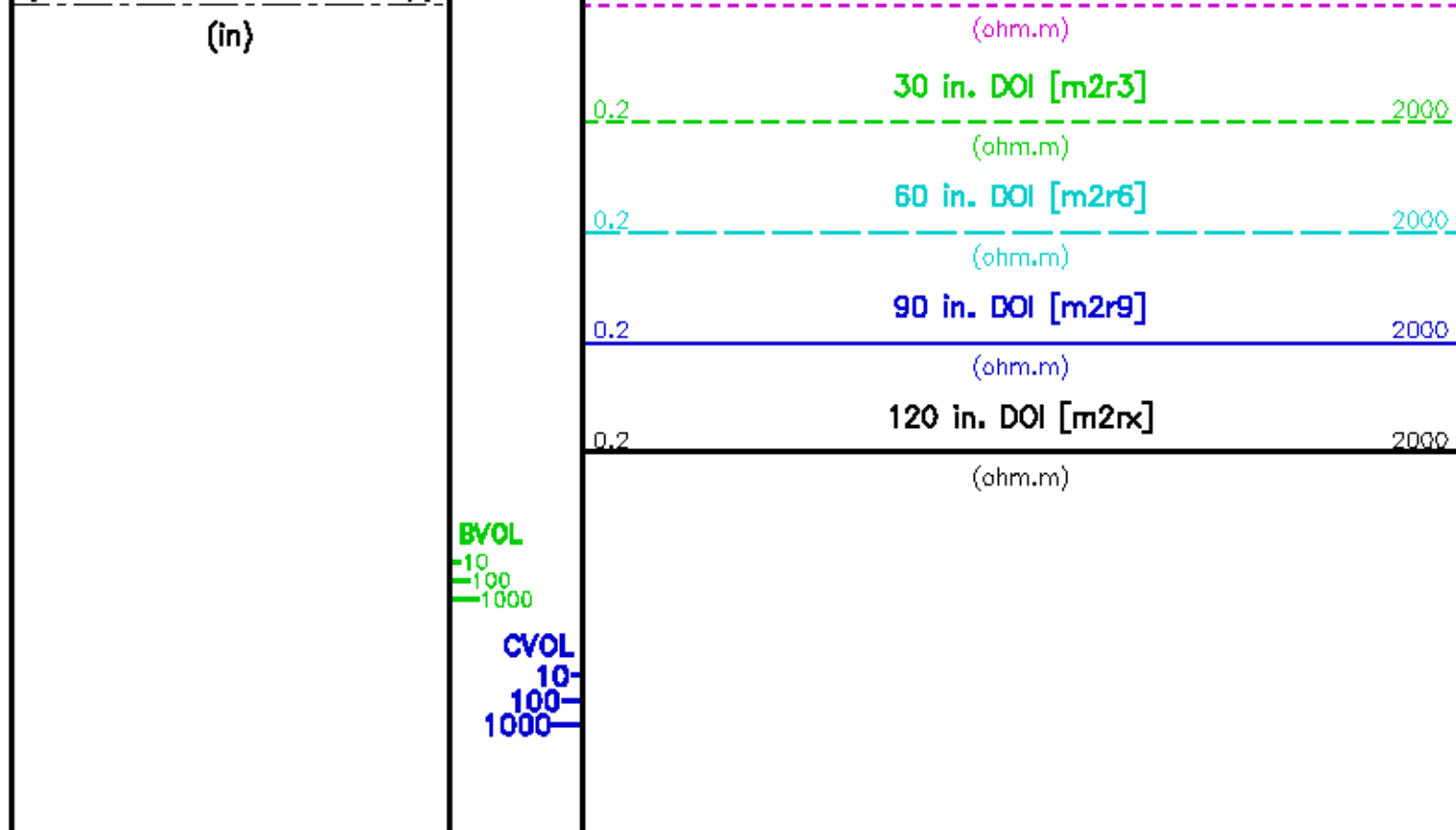
TOOL STICKING

DIFF. TENSION [tan] 4750 -250
(lbf)

2FT. Matched Resolution Resistivity

10 in. DOI [m2r1] 0.2 2000
(ohm.m)

20 in. DOI [m2r2] 0.2 2000



CALIBRATION / VERIFICATION SUMMARY

Source File: /data/573899/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	0.168	45.14	195.14	150
			830.0 890.0				

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
						140.00 160.00

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: DFAULT 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 -0.200 0.200	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	-0.003 -0.100 0.100
Coil 0 Q	0.005 -1.000 1.000	0.005 -0.200 0.200	0.003 -0.100 0.100	0.002 -0.100 0.100	0.003 -0.100 0.100	0.002 -0.100 0.100	-0.000 -0.100 0.100	-0.001 -0.100 0.100
Coil 1 R	-0.000 -0.200 0.200	0.001 -0.100 0.100	-0.001 -0.100 0.100	-0.001 -0.100 0.100	-0.001 -0.100 0.100	-0.003 -0.100 0.100	-0.005 -0.100 0.100	-0.007 -0.100 0.100
Coil 1 Q	0.002 -1.000 1.000	0.003 -0.200 0.200	0.003 -0.100 0.100	0.004 -0.100 0.100	0.005 -0.100 0.100	0.004 -0.100 0.100	0.006 -0.100 0.100	0.002 -0.100 0.100
Coil 2 R	0.003 -0.200 0.200	0.003 -0.100 0.100	-0.000 -0.100 0.100	-0.002 -0.100 0.100	-0.002 -0.100 0.100	-0.002 -0.100 0.100	-0.002 -0.100 0.100	0.001 -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	-0.006 -0.200 0.200	-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	-0.006 -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	-0.006 -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	0.006 -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 -0.600 0.600	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	-0.006 -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 -6.000 6.000	0.001 -2.000 2.000	0.024 -1.600 1.600	-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	124.64 100.00 150.00	122.24 85.00 150.00	118.48 85.00 140.00	113.56 82.00 140.00	107.91 87.00 130.00	101.28 82.00 120.00	93.90 75.00 110.00
Coil 0 P	7.446 5.000 9.000	23.500 18.000 28.000	39.301 32.000 47.000	54.997 44.000 65.000	70.700 57.000 85.000	86.260 70.000 100.000	101.908 82.000 120.000	117.269 85.000 140.000
Coil 1 M	219.09 180.00 270.00	216.78 180.00 270.00	212.05 170.00 260.00	205.26 170.00 260.00	196.38 180.00 260.00	186.08 180.00 230.00	174.19 160.00 220.00	161.17 140.00 200.00
Coil 1 P	7.549 5.000 9.000	23.800 18.000 28.000	39.808 32.000 48.000	55.693 45.000 67.000	71.569 57.000 85.000	87.237 70.000 110.000	102.964 85.000 120.000	118.412 95.000 140.000
Coil 2 M	444.93 350.00 540.00	440.18 350.00 540.00	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 5.000 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 95.000 140.000
Coil 3 M	719.57 550.00 850.00	712.84 550.00 870.00	699.30 570.00 850.00	679.20 550.00 830.00	652.25 530.00 800.00	620.51 500.00 760.00	582.24 470.00 710.00	540.11 440.00 650.00
Coil 3 P	7.681 5.000 10.000	24.254 20.000 29.000	40.614 33.000 48.000	56.915 45.000 68.000	73.300 59.000 88.000	89.566 72.000 110.000	105.945 85.000 130.000	122.089 95.000 150.000
Coil 4 M	1119.8 900.0 1400.0	1109.4 900.0 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	908.8 760.0 1100.0	844.8 700.0 1000.0
Coil 4 P	7.720 5.000 10.000	24.307 20.000 30.000	40.679 33.000 50.000	56.997 45.000 70.000	73.353 60.000 90.000	89.590 73.000 110.000	105.946 85.000 130.000	122.061 95.000 150.000
Coil 5 M	2304.7 1800.0 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 2300.0	1663.5 1400.0 2100.0
Coil 5 P	6.193 5.000 10.000	25.728 20.000 31.000	42.971 34.000 51.000	60.080 45.000 75.000	77.113 62.000 95.000	93.951 75.000 110.000	110.822 85.000 130.000	127.394 100.000 160.000

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 -300 100	-183 -600 0	-194 -600 0	-196 -600 0	-195 -600 0	-193 -600 0	-192 -600 0
Coil 0 Q	2218 -3000 8000	788 -1000 2000	437 -1500 1200	288 -600 800	168 -400 600	95 -400 600	39 -400 400	-8 -400 300
Coil 1 R	534 450 650	64 30 115	6 -30 45	-12 -50 20	-21 -55 0	-25 -60 0	-27 -60 0	-29 -60 0
Coil 1 Q	1747 0 2900	656 0 900	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 0.0 220.0	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 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 -4.90 3.20	-0.91 -5.00 3.30	-1.03 -5.20 3.40	-1.15 -5.40 3.60
Coil 5 Q	2.11 -60.00 70.00	3.90 -20.00 30.00	5.99 -20.00 30.00	7.76 -20.00 35.00	10.28 -20.00 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 -4.50 1.60	-0.80 -5.70 3.50	-0.70 -6.50 4.90	-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 -50.00 80.00	16.41 -60.00 100.00

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	0.260 -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	-0.181 -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 28.000	39.634 32.000 47.000	55.466 44.000 66.000	71.299 57.000 85.000	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	212.15 175.00 260.00	205.20 170.00 260.00	196.08 160.00 260.00	185.53 160.00 230.00	173.29 160.00 220.00	160.02 140.00 200.00
Coil 1 P	7.619 6.000 9.000	24.019 19.000 29.000	40.155 32.000 48.000	56.178 46.000 67.000	72.154 57.000 88.000	87.960 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	440.34 380.00 540.00	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 29.000	40.530 32.000 48.000	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 96.000 140.000
Coil 3 M	722.37 600.00 860.00	715.27 580.00 870.00	701.17 670.00 860.00	680.49 600.00 830.00	652.62 530.00 800.00	619.82 500.00 780.00	580.45 470.00 710.00	537.21 440.00 680.00
Coil 3 P	7.766 6.000 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 86.000 130.000	122.927 98.000 150.000
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	904.7 750.0 1100.0	839.1 700.0 1000.0
Coil 4 P	7.806 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 99.000 160.000
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 2600.0	1929.6 1600.0 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 93.000	94.742 76.000 110.000	111.681 89.000 130.000	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 5100.0
Coil 6 P	8.119 7.000 10.000	26.805 22.000 32.000	43.148 36.000 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 -0.060 0.060	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 0.036	0.004 -0.026 0.034	0.002 -0.027 0.033	-0.000 -0.028 0.032	-0.001 -0.031 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 -0.036 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 0.038	0.009 -0.022 0.039	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 0.079	0.003 -0.034 0.038	-0.002 -0.036 0.031	0.000 -0.036 0.031	0.002 -0.033 0.029	0.002 -0.030 0.030	0.001 -0.031 0.029	0.003 -0.028 0.032

Coil 2 Q	-0.005 -0.353 0.347	-0.005 -0.161 0.099	-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 0.060	-0.005 -0.033 0.047	-0.002 -0.041 0.039	-0.005 -0.040 0.040	0.002 -0.041 0.039	0.005 -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 -0.062 0.058	-0.007 -0.089 0.081	-0.002 -0.059 0.081	0.001 -0.062 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 -0.069 0.061	-0.010 -0.063 0.057	-0.006 -0.069 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 -0.125 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 0.122	0.011 -0.118 0.124	-0.001 -0.116 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 -0.280 0.310
Coil 6 Q	-0.007 -1.037 1.463	0.007 -0.670 0.630	0.005 -0.308 0.291	-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	125.30 122.49 127.49	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 28.710	40.084 36.834 42.834	56.084 50.466 58.468	72.055 68.259 74.259	87.809 83.939 89.939	103.624 99.682 105.824	119.120 115.009 124.609
Coil 1 M	219.96 215.03 223.81	217.49 212.71 221.38	212.49 207.83 215.42	205.43 201.10 209.30	196.12 192.15 200.00	185.46 181.62 189.24	172.89 168.83 176.75	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 43.158	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	446.16 438.43 464.34	440.94 431.53 449.15	430.50 421.80 438.81	416.00 407.50 424.33	397.05 389.38 405.38	375.42 368.59 383.80	350.20 344.44 358.93	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	703.35 687.15 715.18	682.24 665.88 698.10	653.70 638.06 669.67	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 37.985 43.985	58.014 54.438 60.438	74.687 70.936 78.936	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 1145.5	1115.4 1089.7 1134.2	1092.2 1067.8 1111.4	1059.2 1036.2 1078.5	1015.1 984.1 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	41.535 38.067 44.067	58.123 54.612 60.612	74.756 70.982 78.982	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 2088.7	1929.7 1891.0 1969.2	1793.3 1760.2 1832.0	1648.8 1619.7 1688.8
Coil 5 P	8.360 5.277 11.277	26.263 22.964 28.964	43.831 40.360 48.382	61.223 57.645 63.842	78.544 74.789 80.789	95.602 91.742 97.742	112.684 108.681 114.881	129.350 125.298 131.298
Coil 6 M	6017.1 5888.8 6130.2	5944.1 5820.3 6037.8	5801.3 5684.3 5918.3	5602.1 5491.0 5715.1	5339.7 5235.9 5450.5	5038.3 4944.2 5146.1	4684.0 4602.7 4790.3	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 80.827	95.365 91.654 97.654	112.531 108.871 114.871	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 SUB



108.75'
CABLEHEAD TOP 108.00'

THE LOG
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 : 126 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 ACUSTILOG 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'

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'

MULTI-POLE ARRAY ACOUSTIC

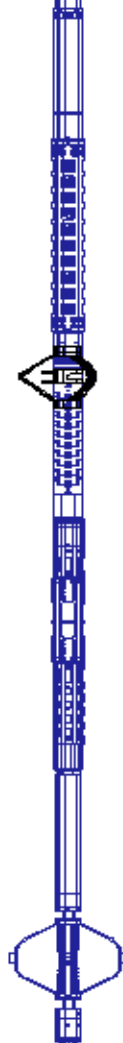
Series : 1678FA
 Mnemonic : MAC
 Diameter : 3.38"
 Weight : 58 lbs

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"



R8 27.13'
 R7 26.63'
 R6 26.13'
 R5 25.63'
 R4 25.13'
 R3 24.63'
 R2 24.13'
 R1 23.63'

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

0.00'



COMPANY
 WELL
 FIELD
 COUNTY

SIERRA GEOTHERMAL POWER, INC.
 ALUM 25-29
 ALUM
 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

TIGHT HOLE

DATE 25-NOV-2008

Baker Atlas

