

BAKER HUGHES



Baker Atlas

FILE NO:

15368

COMPANY

WELL

API NO:

27-001-80440

FIELD

COUNTY

GRADIENT RESOURCES, INC.

13-36

FALLON I

CHURCHILL

STATE NEVADA

Ver. 3.87

LOCATION:

354742 E 4390820 N MDM
UTM NAD 83 ZONE 11N

OTHER SERVICES

DISBUR
HDL/ZOL/CM
XMAC
BHP
GYRO

PERMANENT DATUM

LOG MEASURED FROM

DRILL MEAS. FROM

G.L. ELEVATION

K.B. 5 FT ABOVE P.D.

ELEVATIONS:

KB 3925 FT
DF 3923 FT
OL 3920 FT

DATE 13-NOV-2010

RUN 1 TRIP 2

SERVICE ORDER

DEPTH DRILLER

DEPTH LOGGER

BOTTOM LOGGED INTERVAL

TOP LOGGED INTERVAL

CASING DRILLER

CASING LOGGER

BT SIZE

TYPE OF FLUID IN HOLE

DENSITY

PH

SOURCE OF SAMPLE

RM AT MEAS. TEMP.

RM AT MEAS. TEMP.

RM AT MEAS. TEMP.

SOURCE OF RIF

RM AT BHT

TIME SINCE CIRCULATION

MAX. RECORDED TEMP.

EQUIP. NO.

RECORDED BY

WITNESSED BY

DATE	13-NOV-2010		
RUN	1	2	
SERVICE ORDER	589640		
DEPTH DRILLER	3927 FT		
DEPTH LOGGER	3923 FT		
BOTTOM LOGGED INTERVAL	3923 FT		
TOP LOGGED INTERVAL	0 FT		
CASING DRILLER	7 IN	734 FT	0
CASING LOGGER	730 FT		
BT SIZE	8.125 IN		
TYPE OF FLUID IN HOLE	GEL BASED		
DENSITY	8.5 LB/G	SB S	
PH	11	N/A	
SOURCE OF SAMPLE	MUD TANK		
RM AT MEAS. TEMP.	1.62 CHM	53.6 DEGF	0
RM AT MEAS. TEMP.	1.30 CHM	53.8 DEGF	0
RM AT MEAS. TEMP.	2.28 CHM	53.4 DEGF	0
SOURCE OF RIF	MEASURED	MEASURED	
RM AT BHT	0.52 CHM	180 DEGF	0
TIME SINCE CIRCULATION	14 HOURS		
MAX. RECORDED TEMP.	180 DEGF		
EQUIP. NO.	ML 4232	FALLON	
RECORDED BY	M. GASTIN		
WITNESSED BY	N. PETERSON		

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 2: GYRODATA GYRO WAS HOISTED ON RUN 1 TRIP 1

WELL WAS LAST CIRCULATED ON 11/12/10 AT 16:30, REACHED BOTTOM ON 11/13/10 AT 6:00, STARTED RECORDING MAIN PASS AT 6:45

MAX TEMP THERMOMETER RANGE 100 TO 400 DEG F READ: 180 DEG F
MAX TEMP THERMOMETER RANGE 100 TO 400 DEG F READ: 181 DEG F

THANK YOU FOR CHOOSING BAKER ATLAS...THE BEST CHOICE!!!
CREW: KERN AND WILLIS
RIG: WELSCD #7

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	2	SWL	3844KD	10332207	SWHFL
1	2	TRM	3881KB	10217216	FREE
1	2	WTS	3514VB	368782	FREE

1	2	BSL	1328KB	10203001	FREE
1	2	CN	2446XA	10202048	FREE
1	2	ZDL	2234XA	173878	PAD / DE-CENTRALIZED
1	2	KNUT	3838XA	10143909	DOUBLE KNUCKLE
1	2	HDIL	1515EA/MA	10340485/10089832	0.7" STOOD-OFF
1	2	CENT	4341XA	10500017	CENTRALIZED
1	2	ORT	4401XB	10080288	CENTRALIZED
1	2	AC ELEG	1677EA	10366234	CENTRALIZED
1	2	AC REC	1678MC	10338528	CENTRALIZED
1	2	AC ISO	1678PB	10200307	CENTRALIZED
1	2	AC TRANS	1678BA	10108348	CENTRALIZED
1	2	AC PWR	1678FA	370675	CENTRALIZED
1	2	CENT	4341XA	10238054	CENTRALIZED
1	2	SLAM	3516XA	72848	CENTRALIZED
1	2	TEMP	2806XA	77805	CENTRALIZED

MAIN LOG 2"/100FT SCALE

ECLIPS 6.11 Aug 06, 2010

Sat Nov 13 11:45:12 2010

Perpllt /main/62

Cplot

Pdf_Cpp /main/16

Fileview 5.50

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/15358/w7711203.prm
 LOGGING MODE: DEPTH DIRECTION: DOWN
 TOP DEPTH: 705.724 ft BOTTOM DEPTH: 3514.000 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
TTRM	FILTER ()	medium (1)		TOP	BOTTOM
GR	FILTER ()	medium (1)		"	"

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/15358/w7711206.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 722.000 ft BOTTOM DEPTH: 3528.643 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
TTRM	FILTER ()	medium (1)		TOP	BOTTOM
GR	FILTER ()	medium (1)		"	"

CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F2:GR	Nov 13 06:52:20 2010	GAMMA RAY
F1:WTBH	Nov 13 05:16:55 2010	TEMPERATURE OF BOREHOLE

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
GR	114.00	WTBH	127.50				

Presentation : rta4232:/dat1a/15358/GR-TEMP_2IN.pdf [2"/100' Scale]
 Plot Interval : 90 - 3425 Feet

Data File 1 : F1 : rta4232:/dat1a/15358/6_DOWN.pdf
 Created On : Nov 13 05:16:55 2010

Created On : Nov 13 08:16:33 2010
Company : GRADIENT RESOURCES, INC.
Well : 13-36
Field : FALLON I
File Interval : 90 - 3514 Feet
Ost : m77112

Data File 2 : F2 : rka4232/dar1a/15358/6_MAM.xtf
Created On : Nov 13 08:52:20 2010
Company : GRADIENT RESOURCES, INC.
Well : 13-36
Field : FALLON I
File Interval : 90 - 3528.5 Feet
Ost : m77112

GR BACKUP

GAMMA RAY [gr]

0 150

(gAPI)

GR

FEET

100

200

300

400

TEMP DOWN

50

250

(degF)

TEMP UP

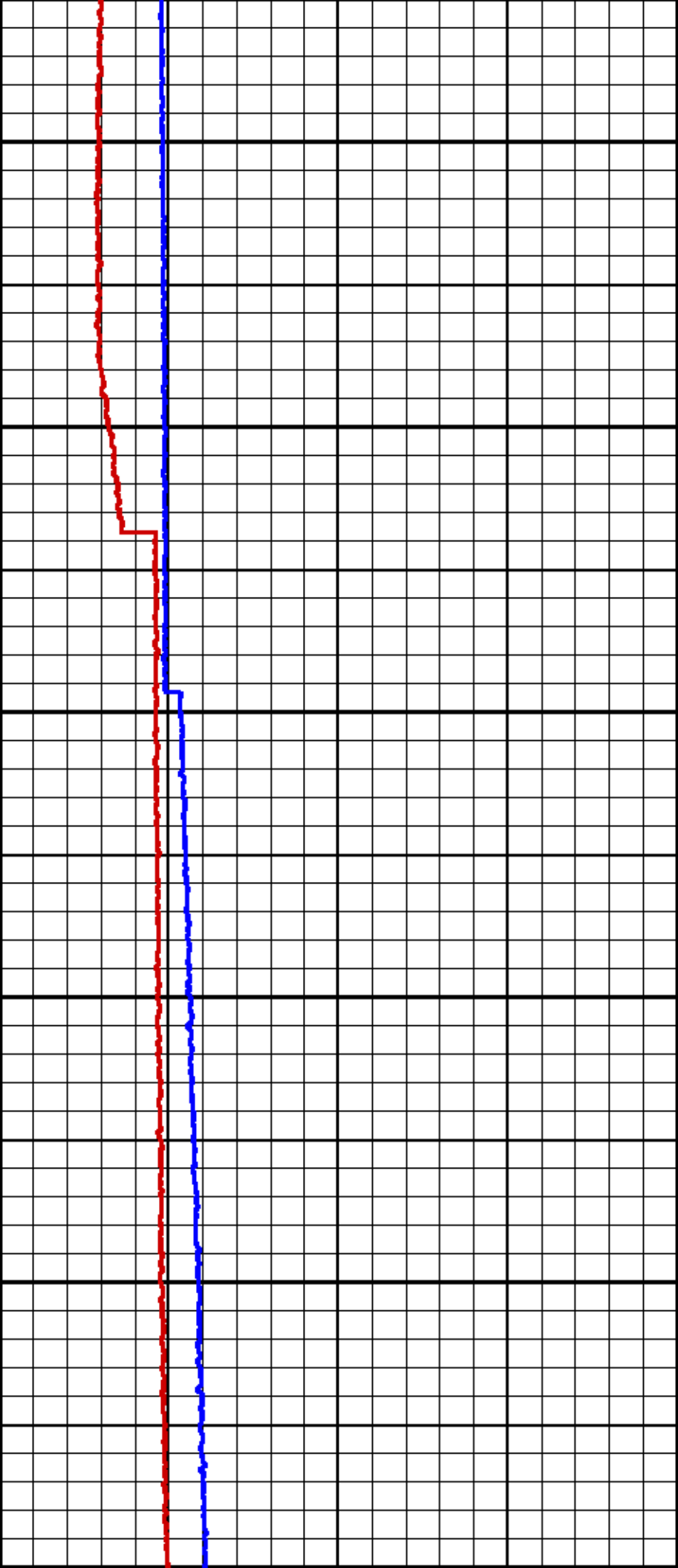
50

250

(DEG F)

WTBH

WTBH



500

600

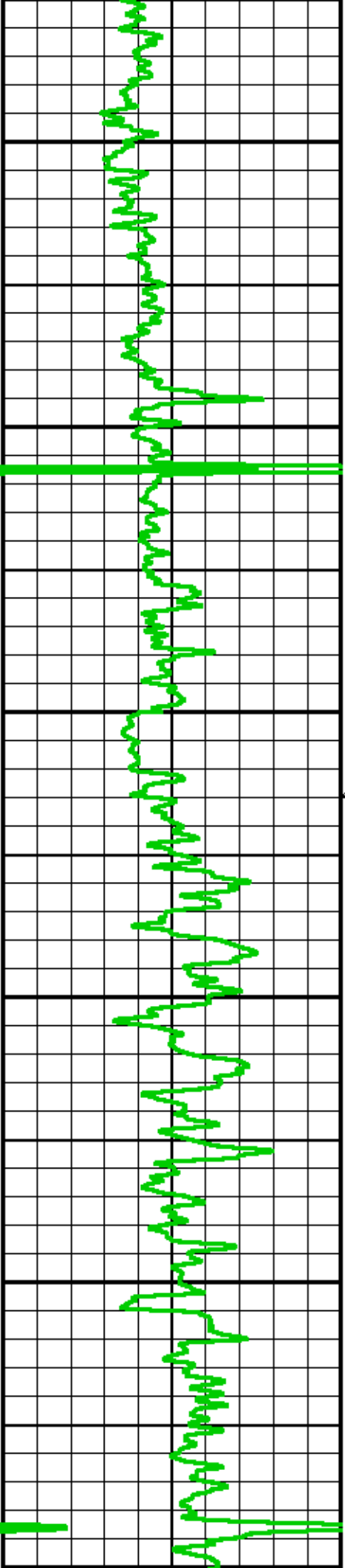
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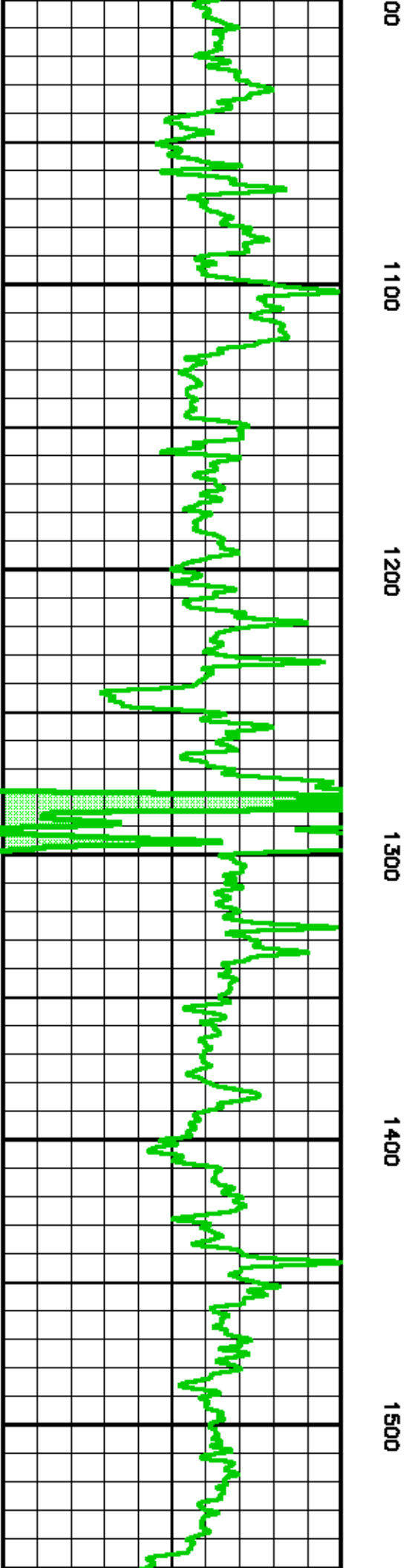
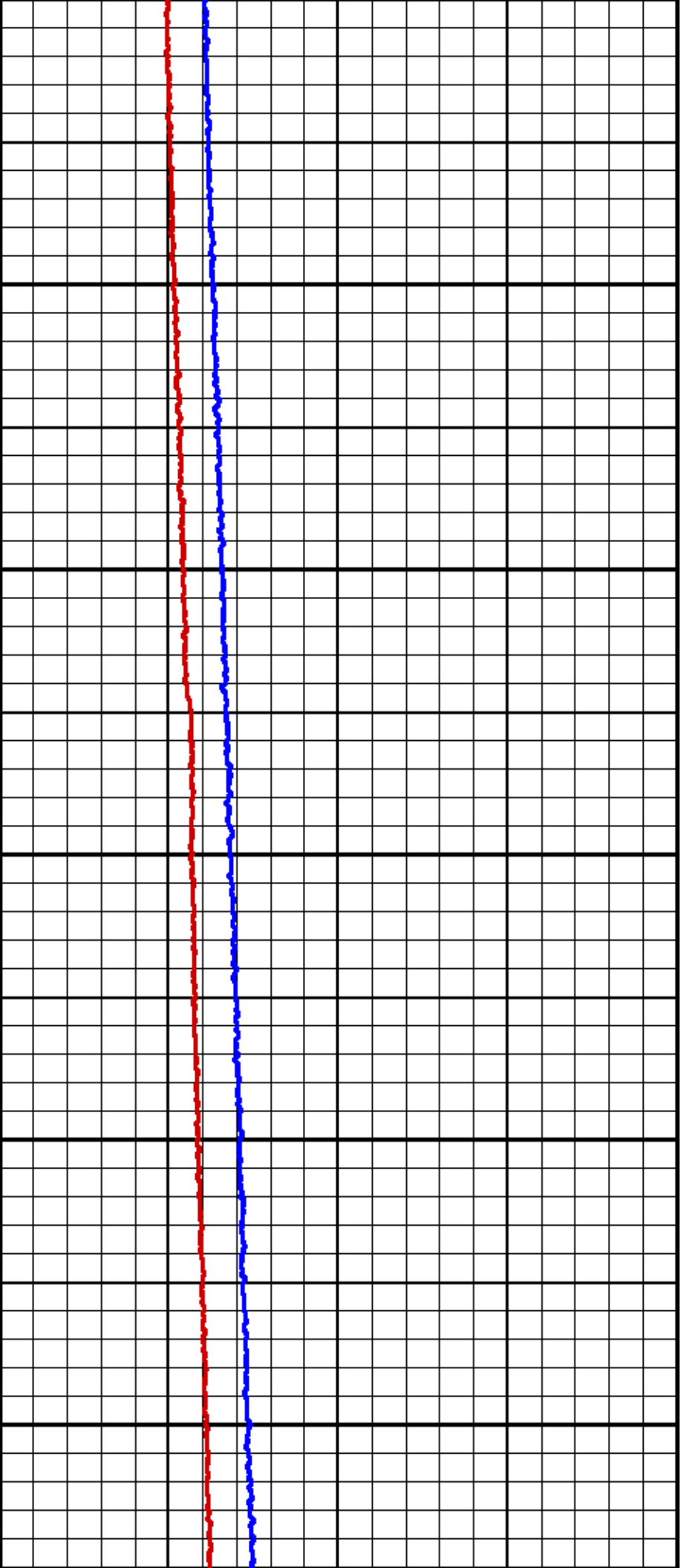
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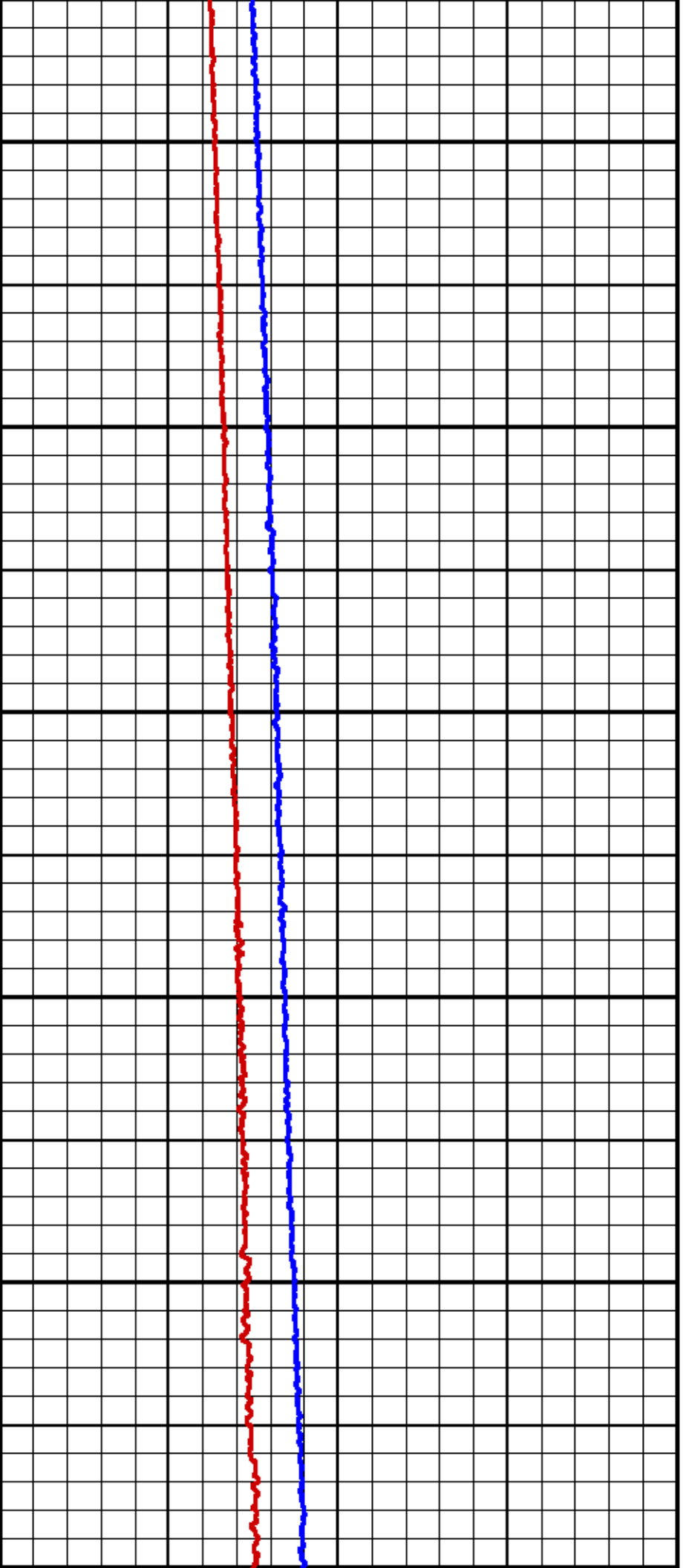
800

900

1000







1600

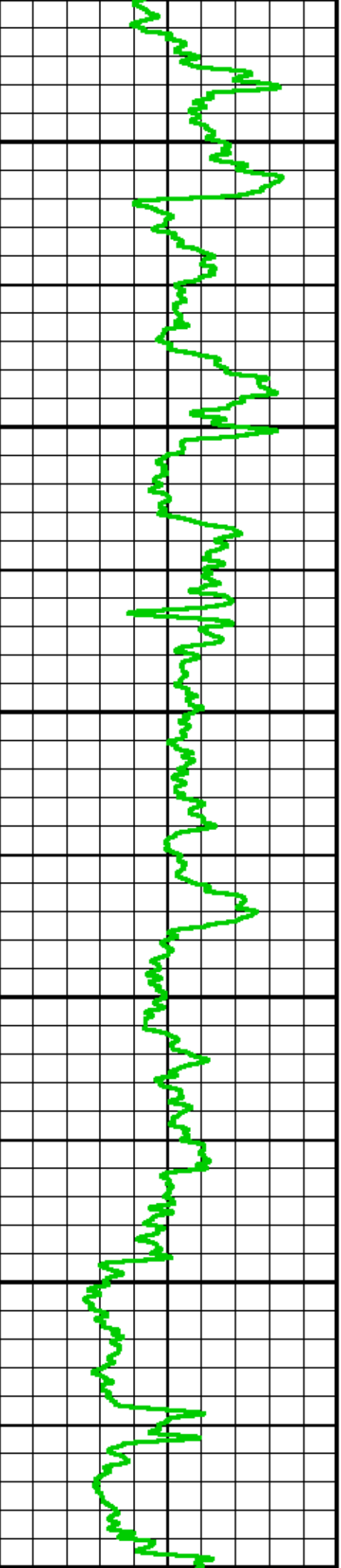
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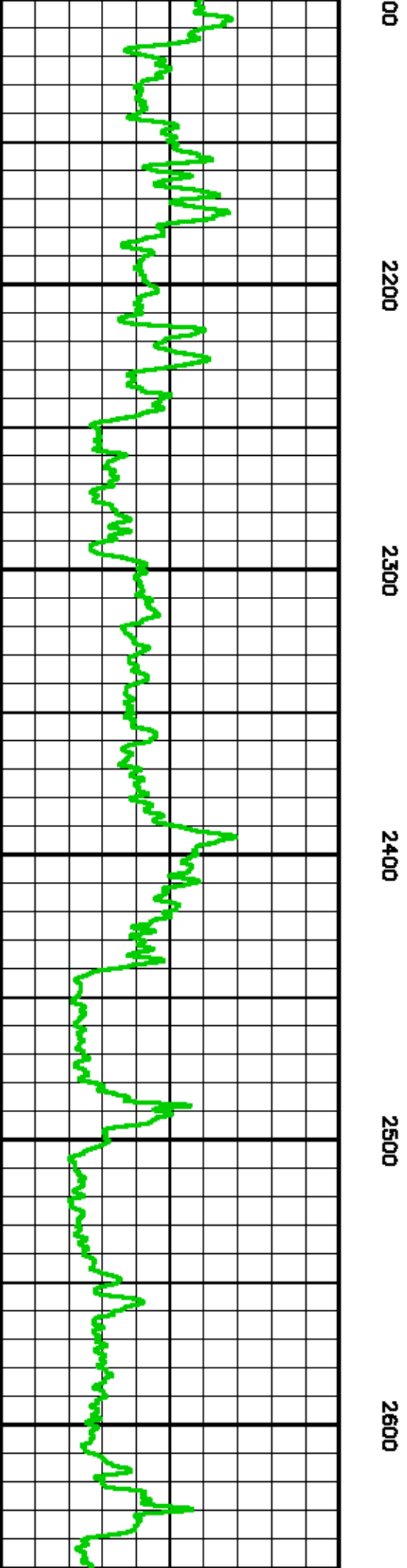
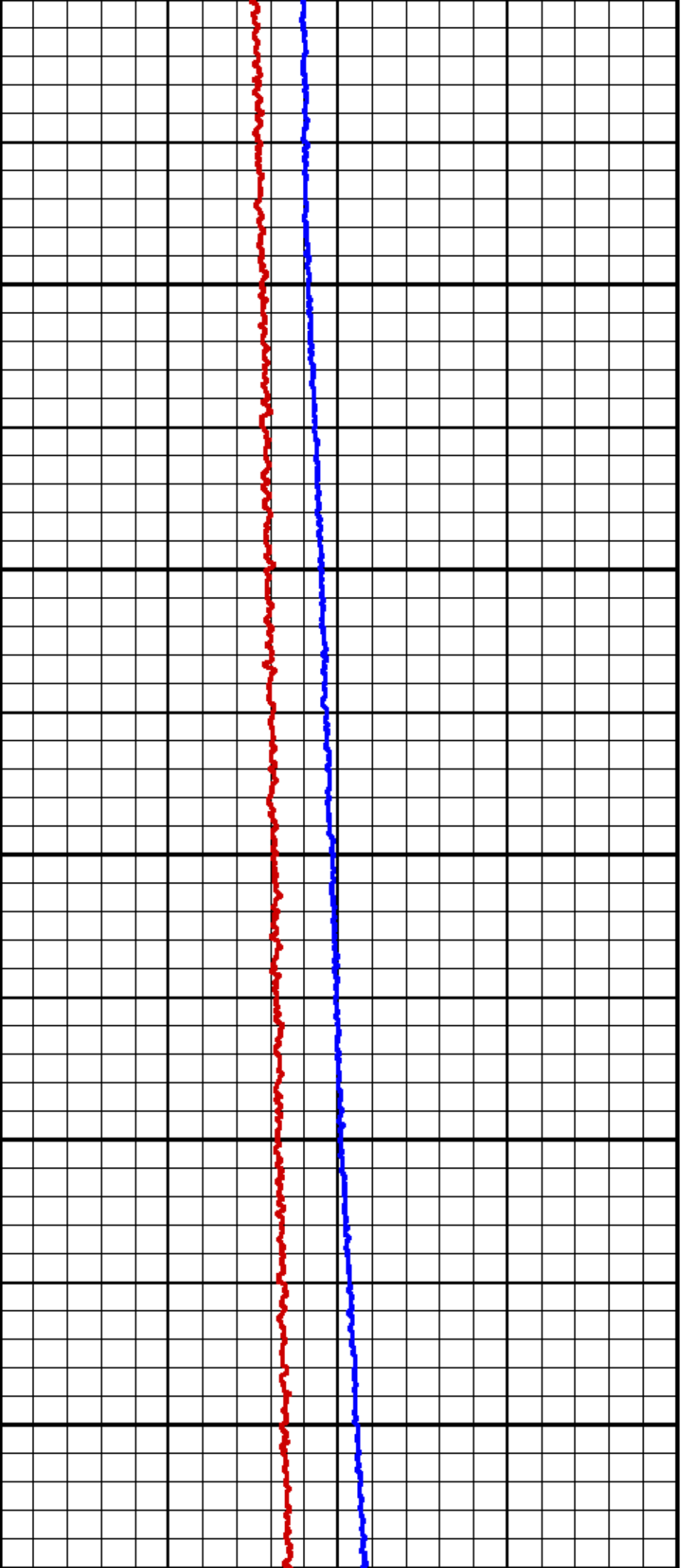
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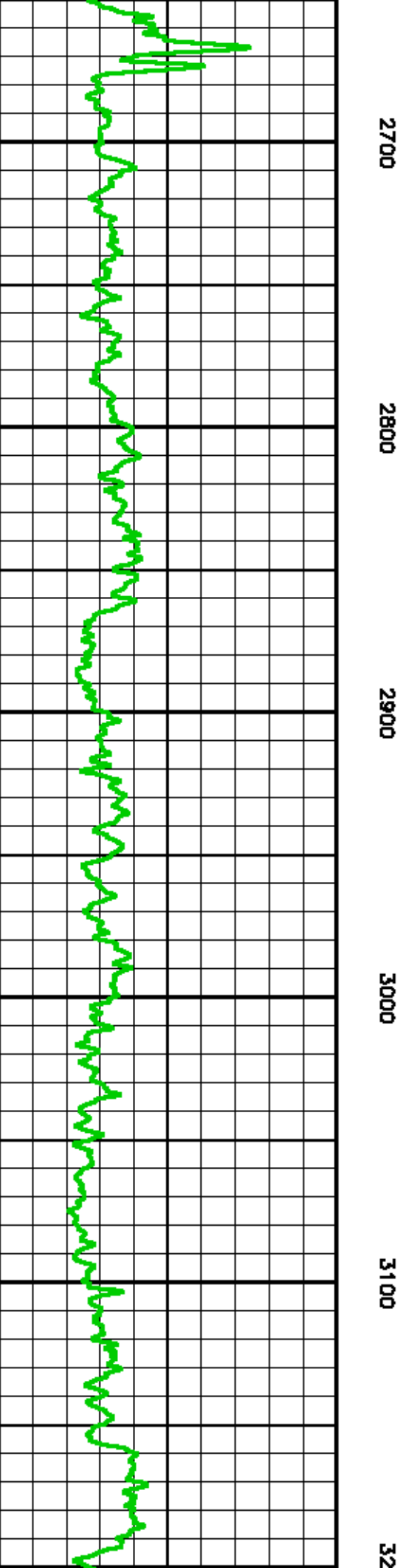
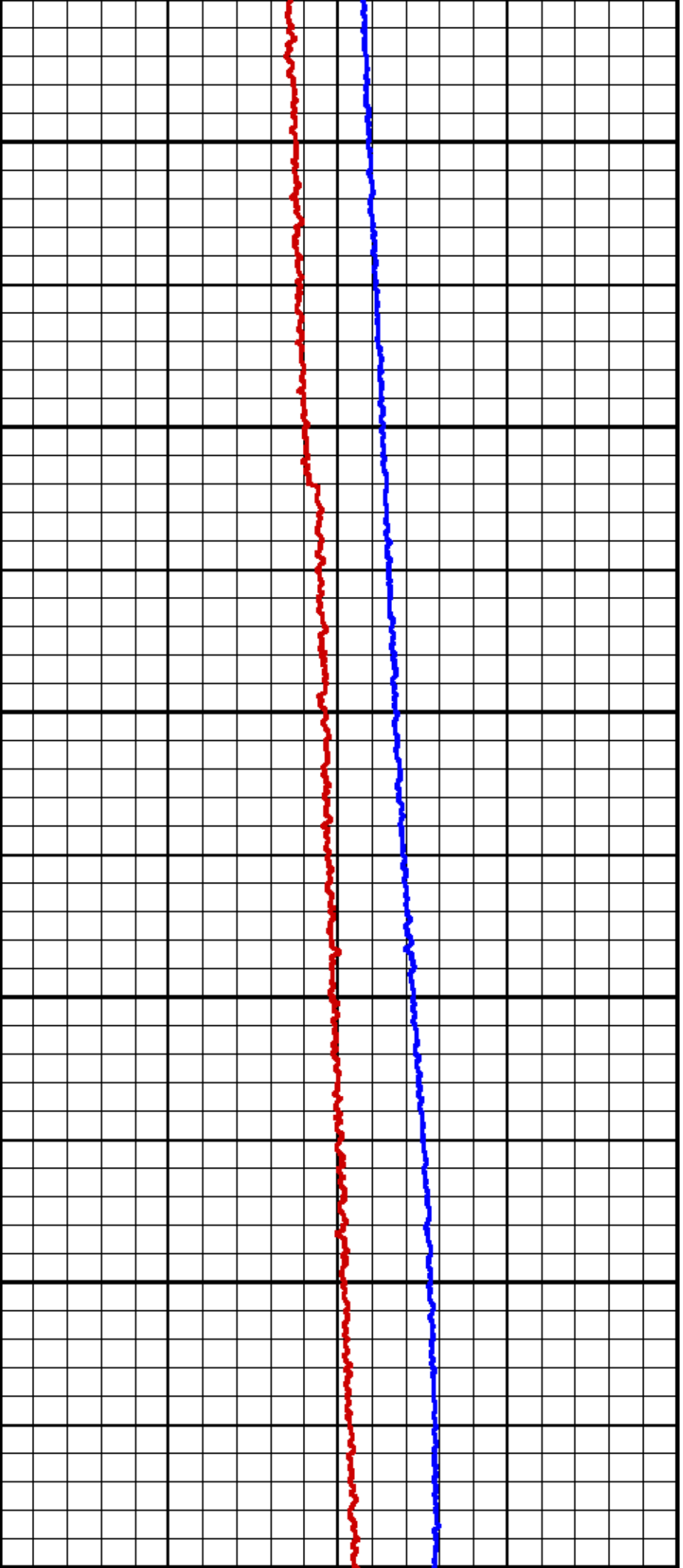
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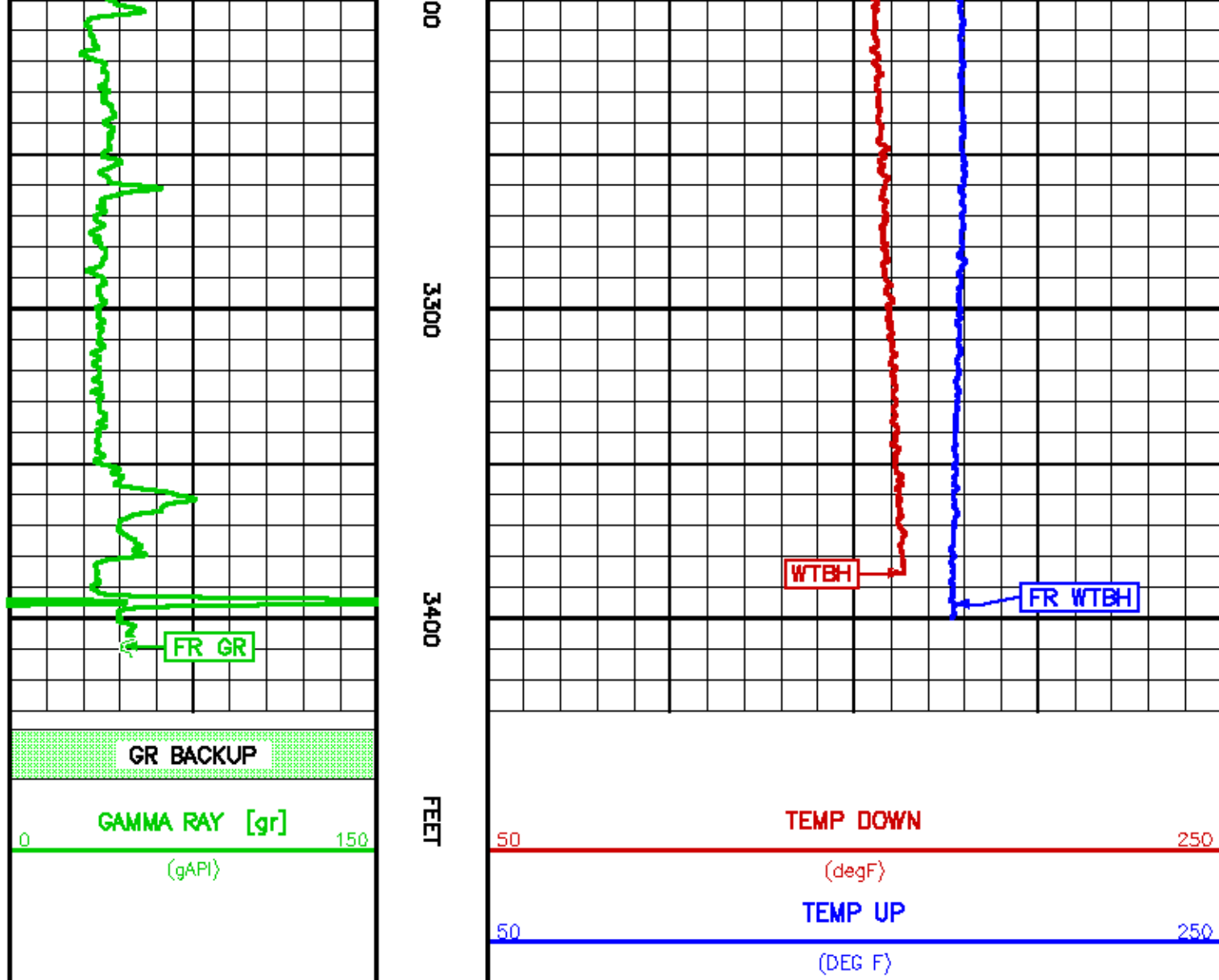
2000

21









CALIBRATION / VERIFICATION SUMMARY

Source File: /dell/a/15558/m771E3a1

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 10203001

DATE/TIME PERFORMED: Mon Nov 1 11:51:17 2010

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	308.96	1182.98	874.0	0.172	53.02	203.02	150
			830.0 960.0				

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 10203001

DATE/TIME PERFORMED: Mon Nov 1 11:56:11 2010

UNIT #: 3885TD ML4232

VERI JIG #: 4702NK DA-321

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
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GR	305.80	1189.67	0.172	52.48	204.17	151.69
						140.80 180.00

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 10203001 DATE/TIME PERFORMED: Sat Nov 13 02:53:10 2010 DAYS SINCE CAL: 11

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

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	450.31	1350.71	0.172	77.28	231.81	154.53
						141.80 181.80

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 10203001 DATE/TIME PERFORMED: Sat Nov 13 10:50:43 2010 DAYS SINCE CAL: 11

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

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	720.98	1606.64	0.172	123.73	275.73	152.00
						144.83 184.53

INSTRUMENT CONFIGURATION

Source File: /dal1a/15358/m7711Z-tdq

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

SWIVEL
 Diameter : 3.38"
 Length : 3.80'
 Weight : 66 lbs
 Series : 30440

TTRM SUB
 Diameter : 3.63"
 Length : 3.63'
 Weight : 62 lbs
 Series : 3081XA
 Mnemonic : TTRM

MTS COMMON REMOTE
 Diameter : 3.63"
 Length : 6.38'
 Weight : 126 lbs
 Series : 3614XB
 Mnemonic : MTS

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

138.16'

CABLEHEAD TOP 138.41'

TEMP MP 127.71'
 RM MP 127.46'

GR MP 114.28'

COMPENSATED NEUTRON

Diameter : 3.63"
Length : 7.58'
Weight : 150 lbs
Series : 24480A
Mnemonic : CN

LSN MP 107.70'
SSN MP 107.30'

Z-DENS LOG

Diameter : 4.88"
Length : 11.22'
Weight : 380 lbs
Series : 22340A
Mnemonic : ZDL

OAL MP 97.04'
LSO MP 98.32'
SSO MP 95.82'

KNUCKLE JOINT (DOUBLE)

Diameter : 3.38"
Length : 4.63'
Weight : 90 lbs
Series : 38380A
Mnemonic : KJUT

HIGH DEFINITION INDUCTION TOOL

Diameter : 3.62"
Length : 27.13'
Weight : 415 lbs
Series : 15180A
Mnemonic : HDIL

SP MP 75.87'

XMTR MP 69.50'

4 ARM BOX SPRING CENTRALIZER

Diameter : 3.38"
Length : 4.12'
Weight : 72 lbs
Series : 43410A
Mnemonic : CENT

DIGITAL ORIENTATION

Diameter : 3.38"
Length : 10.81'
Weight : 110 lbs
Series : 44010B
Mnemonic : ORIT

ARRAY ACOUSTIC LOG ELECTRONICS, B CHANNEL

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

CROSS MULTIPOLE ARRAY ACOUSTIC LOG

Diameter : 3.75"
Length : 10.81'
Weight : 224 lbs
Series : 1678MC
Memoria : XMF1

SHEAR WAVE ACOUSTIC LOG

Diameter : 3.83"
Length : 5.00'
Weight : 135 lbs
Series : 1678PB
Memoria : XMAC

MULTI-POLE ARRAY ACOUSTIC LOG

Diameter : 3.88"
Length : 7.92'
Weight : 170 lbs
Series : 1678BA
Memoria : XMAC

MULTI-POLE ARRAY ACOUSTIC LOG

Diameter : 3.38"
Length : 4.32'
Weight : 58 lbs
Series : 1678FA
Memoria : MAC

4 ARM BOX SPRING CENTRALIZER

Diameter : 3.38"
Length : 4.12'
Weight : 72 lbs
Series : 4341XA
Memoria : CENT

SLAM ADAPTER

Diameter : 3.38"
Length : 6.27'
Weight : 110 lbs
Series : 3516XA
Memoria : SLAM

TEMPERATURE

Diameter : 3.38"

BULL PLUG 3 3/8

TOTAL LENGTH: 138.16'
TOTAL WEIGHT: 2527 lbs
MAX DIAMETER: 0'4.89"

ORIENT MP 47.14'

R8 33.81'
R7 33.41'
R6 32.81'
R5 32.41'
R4 31.81'
R3 31.41'
R2 30.81'
R1 30.41'

MONOPOLE T2 21.81'
QUADRUPOLE T6 21.81'

X-DIPOLE T3 20.18'
Y-DIPOLE T4 20.18'

MONOPOLE T1 18.41'

TEMP MP 0.00'



COMPANY
WELL
FIELD
COUNTY

GRADIENT RESOURCES, INC.

13-36

FALLON I

CHURCHILL

STATE NEVADA

FILE NO:

15358

API NO:

27-001-80440



LOCATION:

354742 E 4380620 N MDM
UTM NAD 83 ZONE 11N

ELEVATIONS:

KB 3925 FT

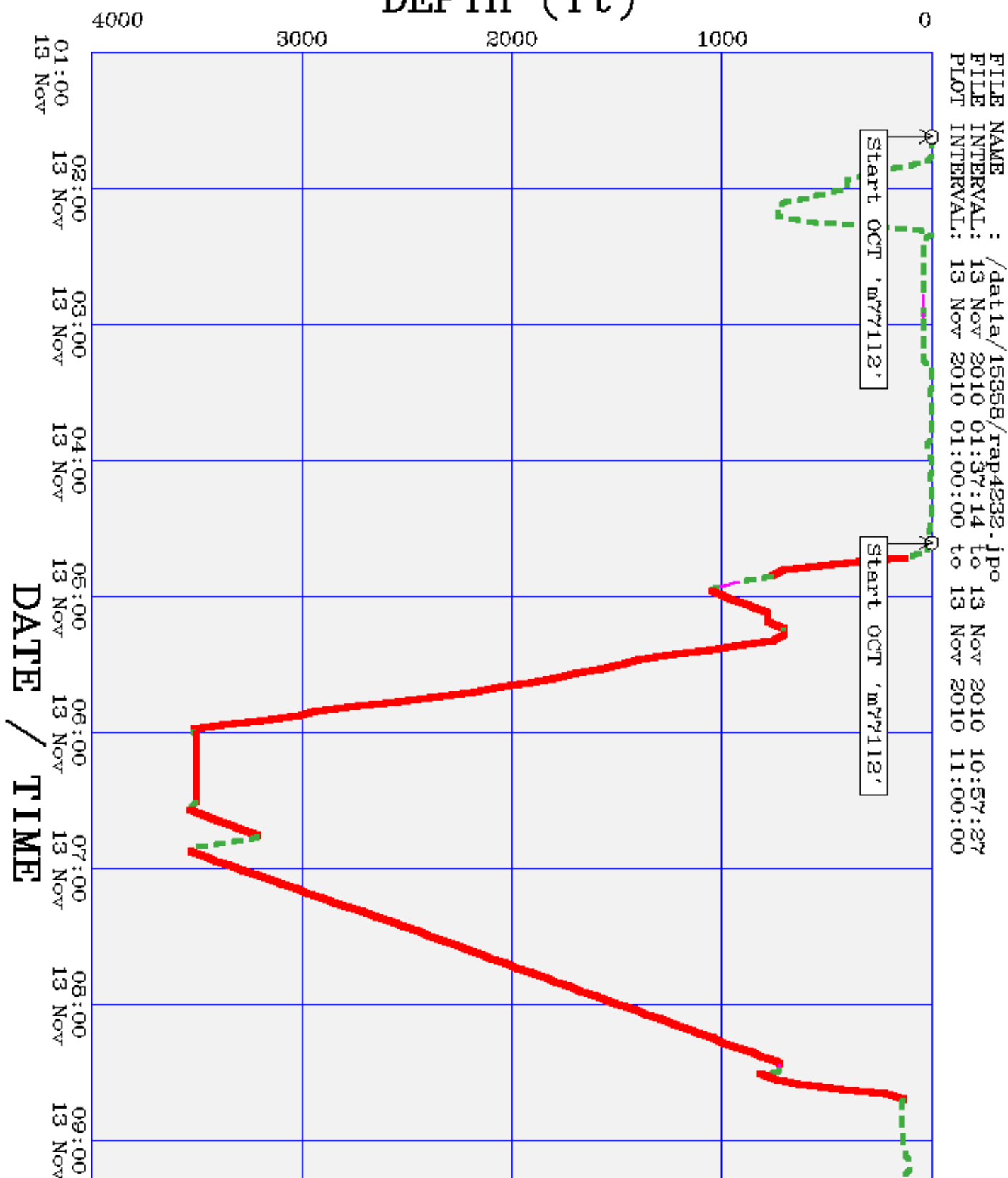
DF 3923 FT

GL 3920 FT

DATE

13-NOV-2010

DEPTH (ft)





10:00

13 Nov

11:00

13 Nov