KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1118917

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33721
Name: Mid-Con Energy Operating, Inc.
Address 1: 2431 E 61ST ST
Address 2: STE 850
City: TULSA State: OK Zip: 74136 + 1236
Contact Person: Ryan Logsdon
Phone: (918) 743-2360
CONTRACTOR: License # 33784
Name: Trinidad Drilling Limited Partnership
Wellsite Geologist: Chris Bean
Purchaser: Coffeyville Resources Ref & Mktng LLC

Designate Type of Completion:

- [x] New Well [ ] Re-Entry [ ] Workover
- [x] Oil [ ] WSW [ ] SWD [ ] SIOW
- [ ] Gas [ ] D&A [ ] ENHR [ ] SIGW
- [ ] OG [ ] GSW [ ] Temp. Abd.
- [ ] CM *(Coal Bed Methane)*
- [ ] Cathodic [ ] Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:

Operator:
Well Name:
Original Comp. Date: Original Total Depth:

- [ ] Deepening [ ] Re-perf. [ ] Conv. to ENHR [ ] Conv. to SWD
- [ ] Conv. to GSW
- [ ] Plug Back: Plug Back Total Depth
- [ ] Commingled Permit #:
- [ ] Dual Completion Permit #:
- [ ] SWD Permit #:
- [ ] ENHR Permit #:
- [ ] GSW Permit #:

9/12/2012	10/4/2012	12/26/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-195-22811-01-00
Spot Description:
SE - SE - SW - SW Sec. 12 Twp. 12 S. R. 22 [ ] East [x] West
190 Feet from [ ] North / [x] South Line of Section
1305 Feet from [ ] East / [x] West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- [ ] NE [ ] NW [ ] SE [x] SW

County: Trego
Lease Name: Holland Well #: 1-12H
Field Name: Unnamed
Producing Formation: Marmaton
Elevation: Ground: 2333 Kelly Bushing: 2340
Total Depth: 7476 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 220 Feet
Multiple Stage Cementing Collar Used? [x] Yes [ ] No
If yes, show depth set: 1823 Feet
If Alternate II completion, cement circulated from: 1823
feet depth to: 0 w/ 265 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 7000 ppm Fluid volume: 2500 bbls
Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite:

Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. [ ] East [ ] West
County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- [x] **Letter of Confidentiality Received**
  Date: 02/19/2013
- [ ] **Confidential Release Date:**
- [x] **Wireline Log Received**
- [ ] **Geologist Report Received**
- [ ] **UIC Distribution**

ALT [ ] I [x] II [ ] III **Approved by:** Deanna Garrison **Date:** 04/19/2013

Side Two

[redacted]

1118917

Operator Name: Mid-Con Energy Operating, Inc. Lease Name: Holland Well #: 1-12H

Sec. 12 Twp. 12 S. R. 22 ☐ East ☑ West County: Trego

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No
Electric Log Run ☑ Yes ☐ No
Electric Log Submitted Electronically ☑ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:
Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Heebner	3554	
Lansing-Kansas CIty	3632	
LKC-Base	3873	
Marmaton	3974	

CASING RECORD ☑ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	9.625	32.3	220	Class A	170	
Production	6.125	4.5	11.6	6073	Class H	250	
Intermediate	8.75	7	26	4452	Class A	630	

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:
☐ Perforate
☐ Protect Casing
☐ Plug Back TD
☐ Plug Off Zone

Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
-			
-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
Attached	Attached	Attached	Attached

TUBING RECORD: Size: 2.375 Set At: 3553 Packer At:

Liner Run: ☑ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 12/27/2012

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	150	0	40		32

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:
Marmaton Lime

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Mid-Con Energy Operating, Inc.
Well Name	Holland 1-12H
Doc ID	1118917

All Electric Logs Run

Micrology
DIL
DNL
FMI
GR
SP

Form	ACO1 - Well Completion
Operator	Mid-Con Energy Operating, Inc.
Well Name	Holland 1-12H
Doc ID	1118917

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	Stage 1 - 2 ft	30,000#s 20/40 sand	5920-5922
4	Stage 1 - 2 ft	621 mcf N2	5894-5896
4	Stage 1 - 2 ft	486 bbls gel wtr	5854-5856
4	Stage 2 - 2 ft	33,750#s 20/40 sand	5771-5773
4	Stage 2 - 2 ft	710 mcf N2	5749-5751
4	Stage 2 - 2 ft	495 bbls gel wtr	5729-5731
4	Stage 3 - 2 ft	33,750#s 20/40 sand	5649-5651
4	Stage 3 - 2 ft	713 mcf N2	5629-5631
4	Stage 3 - 2 ft	477 bbls gel wtr	5599-5601
4	Stage 4 - 2 ft	33,750#s 20/40 sand	5469-5471
4	Stage 4 - 2 ft	682 mcf N2	5449-5451
4	Stage 4 - 2 ft	486 bbls gel wtr	5404-5406
4	Stage 5 - 2 ft	33,750#s 20/40 sand	5319-5321
4	Stage 5 - 2 ft	656 mcf N2	5274-5276
4	Stage 5 - 2 ft	486 bbls gel wtr	5224-5226
4	Stage 6 - 2 ft	33,750#s 20/40 sand	5089-5091
4	Stage 6 - 2 ft	639 mcf N2	5059-5061
4	Stage 6 - 2 ft	467 bbls gel wtr	5029-5031
4	Stage 7 - 2 ft	33,750#s 20/40 sand	4924-4926
4	Stage 7 - 2 ft	675 mcf N2	4899-4901
4	Stage 7 - 2 ft	463 bbls gel wtr	4874-4876
4	Stage 8 - 2 ft	33,750#s 20/40 sand	4784-4786
4	Stage 8 - 2 ft	641 mcf N2	4714-4716
4	Stage 8 - 2 ft	461 bbls gel wtr	4659-4661

Form	ACO1 - Well Completion
Operator	Mid-Con Energy Operating, Inc.
Well Name	Holland 1-12H
Doc ID	1118917

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	Stage 9 - 2 ft	50,010#s 20/40 sand	4594-4596
4	Stage 9 - 2 ft	748 mcf N2	4549-4551
4	Stage 9 - 2 ft	491 bbls gel wtr	4499-4501

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

February 19, 2013

Ryan Logsdon
Mid-Con Energy Operating, Inc.
2431 E 61ST ST
STE 850
TULSA, OK 74136-1236

Re: ACO1
API 15-195-22811-01-00
Holland 1-12H
SW/4 Sec.12-12S-22W
Trego County, Kansas

Dear Production Department:

We are herewith requesting that the attached logs for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Ryan Logsdon

ALLIED OIL & GAS SERVICES, LLC 056525

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Russell KS

DATE 9-12 12	SEC. 12	TWP. 12	RANGE 22	CALLED OUT	ON LOCATION	JOB START 11:00 pm	JOB FINISH 11:30 pm
LEASE Holland	WELL # 1-12 H		LOCATION Ogallah - I-70 exit 135 1N 1E			COUNTY Trego	STATE KS
OLD OR NEW (Circle one)			1N ½E Ninto				

CONTRACTOR Trinidad 215
TYPE OF JOB surface
HOLE SIZE 13½ T.D. 255
CASING SIZE 9⅝ 32.3# DEPTH ~~234~~ 237
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT 15'
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 17¼bbl

OWNER

CEMENT
AMOUNT ORDERED 220 com 3%cc 2%gel

EQUIPMENT
Bob S.
PUMP TRUCK CEMENTER Robert Y
409 HELPER Tony P
BULK TRUCK
481 DRIVER Kevin R
BULK TRUCK
DRIVER

COMMON	220	@ 17.90	3938.00
POZMIX		@	
GEL	4	@ 23.45	93.80
CHLORIDE	8	@ 64.00	512.00
ASC		@	
HANDLING	238.01 ft³	@ 2.48	590.28
MILEAGE	293.22 t/m	2.60	762.37
		TOTAL	5896.45

REMARKS:
ran 6 jts of 9⅝ 32.3# csg received circulation mixed 170 com 3%cc 2%gel displaced ~~17¼bbl~~ 17¼bbl of water shut in washup
Thanks!!

SERVICE

DEPTH OF JOB			255
PUMP TRUCK CHARGE			1512.25
EXTRA FOOTAGE		@	
MILEAGE	27 HVMI	@ 7.70	207.90
MANIFOLD		@	
	27 LVMI	@ 4.40	118.80
		@	
		TOTAL	1838.95

CHARGE TO: Mid Con Energy Operating
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
	TOTAL	

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) 308.97
TOTAL CHARGES 7735.40
DISCOUNT 2080.82 IF PAID IN 30 DAYS
Net 5654.58 BS 9-13
before tax

PRINTED NAME Ryan Loysdon
SIGNATURE

ALLIED OIL & GAS SERVICES, LLC 053889

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Medicine Lodge KS well

DATE 09-18-12	SEC. 17	TWP. 12s	RANGE 22w	CALLED OUT	ON LOCATION	JOB START	JOB FINISH 1:00Am
LEASE Holland	WELL # 1-17H		LOCATION			COUNTY Trego	STATE KS
OLD OR NEW (Circle one)							

2-02 6.8

CONTRACTOR trinidad #
TYPE OF JOB 2 Stg. - Bottom -
HOLE SIZE 8¾ T.D. ~~4513~~ 4513
CASING SIZE 7 DEPTH 4452
TUBING SIZE ~~DEPTH~~ DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX 1800# MINIMUM —
MEAS. LINE SHOE JOINT 39
CEMENT LEFT IN CSG. 39'
PERFS.
DISPLACEMENT 100 Bbls fresh H2O & 70 Bbls mud

OWNER Midcon

CEMENT

AMOUNT ORDERED 365 sx class A + 5% salt + 2% gel + .5% FL-160 + ¼# Defoamer + 12 Bbls ASF

EQUIPMENT

PUMP TRUCK CEMENTER D. Felio 1
#543-545 HELPER Hilpipen 2
BULK TRUCK
#421- DRIVER Bk Book 3
BULK TRUCK
#356290 DRIVER R. Reeves 1

COMMON	Class A 365sx	@ 17.90	6533.50
POZMIX		@	
GEL	7sx	@ ~~21.35~~ 23.40	163.80
CHLORIDE		@	
ASC		@	
Salt	105x	@ 26.35	263.50
		@	
FL-160	171#	@ 19.90	3231.90
		@	
Defoamer	91#	@ 9.90	891.80
		@	
ASF	12 Bbls ~~XXXX~~	@ 58.70	704.40
		@	
HANDLING	397.2 ft³	@ 2.48	985.06
MILEAGE	25 · 18.34	2.60	1192.10
		458.50 TOTAL	13966.06

REMARKS:

see Blog -

Bump Plug - Open tool - circ. for 4 hrs

THX ☺

SERVICE

DEPTH OF JOB 4452
PUMP TRUCK CHARGE 2765.15
EXTRA FOOTAGE @
MILEAGE 25 @ 7.70 192.50
MANIFOLD headrental @ 275.00
Light Vehicle 25 @ 4.40 110.00
@
TOTAL 3343.25

CHARGE TO: Midcon Energy Operating
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

1- Sure Seal Float Shoe	@		712.53
1- Latch down Plug Assy.	@		396.63
2- Baskets	@	462.15	924.30
5- centralizers	@	65.52	327.60
Stage Collar - DV tool	@		6502.50
	886.13	TOTAL	8863.56

7"

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)
TOTAL CHARGES 26172.87
DISCOUNT 9945.69 IF PAID IN 30 DAYS
16227.18 Net - see field ticket #53890 for both net prices.

PRINTED NAME Ryan Loyston

SIGNATURE

ALLIED OIL & GAS SERVICES, LLC 053890

Federal Tax I.D.# 20-5976804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Medicine Lodge KS

DATE 09-19-12	SEC. 12	TWP. 12S	RANGE 22W	CALLED OUT	ON LOCATION	JOB START	JOB FINISH 8:00 AM
LEASE Holland	WELL # 1-12 H		LOCATION			COUNTY Trego	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR Trinidad
TYPE OF JOB 2-Stage - top
HOLE SIZE 8 3/4 T.D. 4513
CASING SIZE 7" 26# DEPTH 1823
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX 1800# MINIMUM —
MEAS. LINE SHOE JOINT N/A
CEMENT LEFT IN CSG. min:
PERFS.
DISPLACEMENT 69 3/4 BBLS Fresh H2O

OWNER Midcon

2-07 Lo 8

EQUIPMENT

PUMP TRUCK CEMENTER D. Fedio 1
548-545 HELPER Hu Piper 1
BULK TRUCK
356-290 DRIVER R. Reeves 1
BULK TRUCK
DRIVER

CEMENT

AMOUNT ORDERED 275sx 65:35:6% gel + 2% cc + 1/4# Flosel

COMMON		@	
POZMIX		@	
GEL		@	
CHLORIDE	6sx	@ N/C	
ASC		@	
Lite Weight	275sx	@ 16.50	4537.50
		@	
Flosel	75#	@ 2.97	222.75
		@	
		@	
		@	
		@	
		@	
HANDLING	300.5 ft³	@ 2.48	745.24
MILEAGE	25 · 12.46 · .26		809.90
		TOTAL	6315.39

311.50

REMARKS:

See Job Log
Bump Plug - close tool
Cement Did Circ
THX :)

SERVICE

DEPTH OF JOB 1823'
PUMP TRUCK CHARGE 2406.25
EXTRA FOOTAGE @
MILEAGE 25 @ N/C
MANIFOLD Headrental @ N/C
25 @ N/C
@
TOTAL 2406.25

CHARGE TO: Midcon Energy Operating
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

None
@
@
@
@
@
TOTAL

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) 323.69
TOTAL CHARGES 8721.64
DISCOUNT 3354.78 IF PAID IN 30 DAYS
Net 21,594.09
Rig time = -1040.00
2 x 520
New Net 20,554.09 NR

38 870

PRINTED NAME Ryan Logsdon

SIGNATURE

ALLIED OIL & GAS SERVICES, LLC 053894

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Medicine Lodge KS

DATE 10-08-12	SEC. 12	TWP. 12S	RANGE 22W	CALLED OUT	ON LOCATION	JOB START	JOB FINISH 10:15pm
LEASE Holland	WELL # 1-12H	LOCATION Ogallah, KS, 1E, 1½N, ⅛E, N/S				COUNTY Trego	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR trinidad #215
TYPE OF JOB Production Casing
HOLE SIZE 6⅛ T.D. 7456
CASING SIZE 4½ DEPTH 6073
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM —
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT B6b Fresh H20

OWNER Mid-con Energy

2-02 60.8

EQUIPMENT

PUMP TRUCK CEMENTER D. Felix
548-545 HELPER H. Piper 2
BULK TRUCK
381-250 DRIVER J. Fejos 3
BULK TRUCK
DRIVER

REMARKS:

See Job Log

THX

CEMENT

AMOUNT ORDERED 250sx class H + 3#Kol-Seal + .8% FL-160 + .25% C-45 + .1% C-20 + ½# Defoamer

COMMON Class H	250sx	@ 21.20	5300.00
POZMIX		@	
GEL		@	
CHLORIDE		@	
ASC		@	
Kolseal	750#	@ .98	735.00
FL-160	188#	@ 18.25	3431.00
C-45 or SAS1	59#	@ 17.55	1035.45
CR-20	23#	@ 4.50	103.50
Powdered Defoamer	62#	@ 9.80	607.60
Super Flush	0	@ N/C	N/C
		@	
		@	
HANDLING	273 ft³	@ 2.48	677.04
MILEAGE	12.3 tm 25 · 2.60		799.50
		TOTAL	12689.09

307.50

SERVICE

DEPTH OF JOB	6073		
PUMP TRUCK CHARGE			3651.21
EXTRA FOOTAGE		@	
MILEAGE	25	@ 7.70	192.50
MANIFOLD	headrental	@	275.00
Light Vehicle	25	@ 4.40	110.00
		@	
		TOTAL	4228.71

CHARGE TO: Mid-con Energy Operating
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

1-TRP		@	83.07 T
		@	
		@	
		@	
		@	
		TOTAL	83.07

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Ryan Logsdon

SIGNATURE

SALES TAX (If Any) 768.10
TOTAL CHARGES 17,000.91
DISCOUNT 5950.31 IF PAID IN 30 DAYS

Bid Adjusted Net 11,050.60

ALLIED CEMENTING CO., LLC. 034668

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: RUSSELL

DATE 10-22-12	SEC. 12	TWP. 15	RANGE 22W	CALLED OUT	ON LOCATION	JOB START 10 AM	JOB FINISH 11 AM
LEASE Holland	WELL # 1-12 H	LOCATION OBERLIN KS				COUNTY TREGO	STATE KS
(OLD) OR NEW (Circle one)		1E-2N-1/2E-N into					

CONTRACTOR none
TYPE OF JOB MISC.
HOLE SIZE T.D.
CASING SIZE DEPTH
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT

OWNER

CEMENT
AMOUNT ORDERED 50 SK 60/40 4% Gel

EQUIPMENT

PUMP TRUCK # 409 CEMENTER Bob Smith
HELPER Kevin
BULK TRUCK # 473 DRIVER Walter
BULK TRUCK # DRIVER

COMMON	30	@ 17.9	537.00
POZMIX	20	@ 9.35	187.00
GEL	2	@ 23.4	46.80
CHLORIDE		@	
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	min/charge
HANDLING	53.33 Ft³	@ 2.48	400.00
MILEAGE	65.25 T/m	X 2.6 =	169.65
		TOTAL	1340.45

REMARKS:

Rat Hole cement to surface
Mouse Hole cement to surface
Rat Hole dumped dry cement on TOP.
Had the water truck suck out the cellar.

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			2058.50
EXTRA FOOTAGE		@	
MILEAGE Hay	29	@ 7.7	223.30
MANIFOLD		@	
Lav	29	@ 4.4	127.60
		@	
		TOTAL	2409.4

CHARGE TO: Midcon Energy Operating
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
	TOTAL	0

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME

SIGNATURE

SALES TAX (If Any) 254.98
TOTAL CHARGES 3749.85
DISCOUNT 1499.94 IF PAID IN 30 DAYS
net 2249.91 BS 10-22
before tax

A C T U A L W E L L P A T H R E P O R T (CSV version)
Prepared by Baker Hughes
Software System: WellArchitect®3.0.0

REFERENCE WELLPATH IDENTIFICATION

Operator	MidCon Energy
Area	Kansas
Field	Trego County, Kansas (MidCon Operating) NAD 83 / Grid
Facility	Holland 1-12H Sec 12-12S-22W
Slot	Holland 1-12H SL 150 FSL, 1415 FWL
Well	Subject
Wellbore	Holland 1-12H AWB
Wellpath	AWP
Sidetrack	(none)

REPORT SETUP INFORMATION

Projection	NAD83 / Lambert Kansas SP, Northern Zone (1501), US feet
North Refe	Grid
Scale	0.999965
Convergen	1.09° West
Software S	WellArchitect®
User	Dehamard
Report Ger	10/3/2012 at 9:08:50 AM
DataBase/S	Oklahoma City/ev01.xml

WELLPATH	Local North [ft]	Local East [ft]	Grid East [ft]	Grid North [ft]	Latitude	Longitude
Slot Locatic	0	0	824007.9	253320.2	39°00'58.1	99°43'07.530"W
Facility Ref			824007.9	253320.2	39°00'58.1	99°43'07.530"W
Field Refer			771585.5	210682.5	38°53'46.4	99°54'00.250"W

WELLPATH DATUM

Calculation	Minimum curvature
Horizontal	Facility Center
Vertical Re	Trinidad 215 (KB)
MD Refere	Trinidad 215 (KB)
Field Vertic	Mean Sea Level
Trinidad 21	10.00ft
Trinidad 21	2337.20ft
Trinidad 21	1415 FWL) 10.00ft
Section Ori	0.00ft
Section Ori	0.00ft
Section Azi	349.98°

W E L L P A T H D A T A Wellbore: Holland 1-12H AWB Wellpath: AWP † = interpolated/extrapolated station

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North

	[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]
†	0	0	183.07	0	0	0	0	824007.9	253320.2
	10	0	183.07	10	0	0	0	824007.9	253320.2
	623	0.22	183.07	623	-1.15	-1.18	-0.06	824007.9	253319.1
	1189	0	6.88	1189	-2.2	-2.26	-0.12	824007.8	253318
	1855	0.52	286.6	1854.99	-0.85	-1.4	-3.02	824004.9	253318.8
	2325	0.09	170.13	2324.98	-0.26	-1.15	-5	824002.9	253319.1
	2748	0.35	99.633	2747.98	-1.03	-1.69	-3.67	824004.2	253318.5
	3360	1.08	239.99	3359.95	-3.63	-4.89	-6.82	824001.1	253315.3
	3392	1.43	263.2	3391.94	-3.71	-5.09	-7.48	824000.4	253315.1
	3423	2.35	307.89	3422.92	-3.22	-4.75	-8.36	823999.6	253315.5
	3455	4.05	330.3	3454.87	-1.67	-3.36	-9.44	823998.5	253316.9
	3485	6.18	341.78	3484.75	0.93	-0.91	-10.47	823997.4	253319.3
	3517	8.7	343.99	3516.48	5.04	3.06	-11.68	823996.2	253323.3
	3549	11.49	344.78	3547.98	10.62	8.46	-13.18	823994.7	253328.7
	3580	14.62	345.81	3578.18	17.6	15.23	-14.95	823993	253335.5
	3611	18.09	347.18	3607.92	26.31	23.72	-16.98	823990.9	253344
	3643	21.51	349.16	3638.02	37.15	34.33	-19.18	823988.7	253354.6
	3675	25.04	349.86	3667.42	49.79	46.76	-21.48	823986.4	253367
	3706	28.65	350.61	3695.07	63.78	60.56	-23.85	823984.1	253380.8
	3738	31.83	352.12	3722.71	79.89	76.49	-26.26	823981.7	253396.7
	3770	34.9	352.15	3749.44	97.48	93.92	-28.67	823979.2	253414.2
	3801	38.89	352	3774.22	116.07	112.35	-31.23	823976.7	253432.6
	3833	42.49	352.22	3798.48	136.92	133.01	-34.09	823973.8	253453.2
	3864	46.1	351.93	3820.67	158.55	154.45	-37.08	823970.8	253474.7
	3896	48.93	351.54	3842.28	182.13	177.8	-40.47	823967.4	253498
	3926	51.9	351.31	3861.39	205.24	200.66	-43.92	823964	253520.9
	3957	54.86	351.35	3879.88	230.11	225.25	-47.67	823960.2	253545.5
	3989	58.12	351.32	3897.55	256.78	251.63	-51.69	823956.2	253571.9
	4018	62.09	351.02	3912	281.91	276.47	-55.55	823952.4	253596.7
	4050	65.35	351.03	3926.16	310.6	304.8	-60.03	823947.9	253625
	4081	68.12	351.38	3938.41	339.07	332.94	-64.38	823943.5	253653.2
	4112	70.29	351.1	3949.41	368.04	361.59	-68.79	823939.1	253681.8
	4143	72.33	350.51	3959.34	397.4	390.57	-73.49	823934.4	253710.8
	4175	74.33	350.05	3968.52	428.05	420.78	-78.66	823929.3	253741
	4207	76.29	349.7	3976.64	459.01	451.25	-84.11	823923.8	253771.5
	4238	78.76	349.8	3983.33	489.27	481.04	-89.49	823918.4	253801.3
	4270	80.5	350.19	3989.09	520.75	512.04	-94.96	823913	253832.3
	4301	82.43	350	3993.69	551.4	542.23	-100.23	823907.7	253862.4
	4333	84.48	350	3997.34	583.19	573.54	-105.75	823902.2	253893.8
	4364	86.2	350.09	3999.86	614.09	603.97	-111.09	823896.8	253924.2
	4396	88.52	350.94	4001.33	646.05	635.5	-116.36	823891.6	253955.7
	4428	90.65	350.65	4001.57	678.04	667.08	-121.48	823886.4	253987.3
	4483	92.16	350.9	4000.22	733.02	721.35	-130.29	823877.6	254041.6
	4578	91.48	350.33	3997.2	827.97	815.03	-145.78	823862.1	254135.2
	4642	88.43	349.6	3997.25	891.96	878.05	-156.93	823851	254198.2
	4706	88.64	349.14	3998.89	955.93	940.93	-168.73	823839.2	254261.1

4769	88.95	349.09	4000.21	1018.91	1002.78	-180.62	823827.3	254323
4832	88.92	348.43	4001.38	1081.89	1064.56	-192.9	823815	254384.8
4894	89.91	348.85	4002.02	1143.87	1125.34	-205.11	823802.8	254445.5
4958	89.57	348.91	4002.31	1207.85	1188.14	-217.46	823790.5	254508.3
5021	89.54	348.61	4002.8	1270.84	1249.93	-229.74	823778.2	254570.1
5084	88.46	348.63	4003.9	1333.81	1311.68	-242.16	823765.8	254631.9
5148	88.98	349.62	4005.32	1397.78	1374.52	-254.24	823753.7	254694.7
5211	89.85	351.32	4005.97	1460.78	1436.64	-264.67	823743.3	254756.8
5275	90	351.5	4006.05	1524.76	1499.92	-274.22	823733.7	254820.1
5338	88.86	351.37	4006.68	1587.73	1562.21	-283.61	823724.3	254882.4
5402	88.8	351.01	4007.99	1651.7	1625.45	-293.41	823714.5	254945.6
5465	88.28	350.36	4009.59	1714.68	1687.59	-303.6	823704.3	255007.8
5526	88.71	350.09	4011.19	1775.66	1747.69	-313.95	823694	255067.9
5589	89.14	350.15	4012.37	1838.64	1809.74	-324.76	823683.2	255129.9
5653	88.89	350.57	4013.47	1902.63	1872.83	-335.48	823672.5	255193
5716	88.15	350.1	4015.1	1965.61	1934.91	-346.05	823661.9	255255.1
5779	88.15	349.51	4017.14	2028.58	1996.89	-357.2	823650.7	255317
5842	89.48	349.31	4018.44	2091.56	2058.8	-368.77	823639.2	255379
5905	89.29	347.83	4019.12	2154.54	2120.54	-381.25	823626.7	255440.7
5968	87.91	349.48	4020.65	2217.5	2182.29	-393.64	823614.3	255502.4
6031	87.66	350.16	4023.09	2280.45	2244.25	-404.77	823603.2	255564.4
6094	86.57	350.48	4026.26	2343.37	2306.28	-415.35	823592.6	255626.4
6158	89.95	351.83	4028.2	2407.31	2369.48	-425.18	823582.7	255689.6
6221	91.36	352.43	4027.48	2470.26	2431.88	-433.81	823574.1	255752
6284	91.91	351.33	4025.69	2533.2	2494.22	-442.7	823565.2	255814.4
6347	92	350.62	4023.54	2596.15	2556.4	-452.58	823555.4	255876.5
6411	89.26	349.32	4022.83	2660.14	2619.41	-463.72	823544.2	255939.6
6471	91.57	349.88	4022.4	2720.14	2678.42	-474.55	823533.4	255998.6
6535	89.23	349.62	4021.95	2784.13	2741.39	-485.94	823522	256061.5
6598	91.63	350.79	4021.48	2847.12	2803.47	-496.66	823511.3	256123.6
6661	95.46	351.98	4017.58	2909.97	2865.62	-506.08	823501.9	256185.8
6724	95.86	351.65	4011.37	2972.63	2927.68	-515	823492.9	256247.8
6778	96.36	352.13	4005.62	3026.29	2980.83	-522.58	823485.4	256301
6841	94.78	351.55	3999.51	3088.96	3042.9	-531.48	823476.5	256363
6904	91.17	350.44	3996.24	3151.85	3105.03	-541.32	823466.6	256425.1
6967	89.82	349.89	3995.69	3214.85	3167.1	-552.08	823455.9	256487.2
7030	89.91	349.85	3995.84	3277.85	3229.12	-563.17	823444.8	256549.2
7094	91.63	349.56	3994.98	3341.84	3292.08	-574.6	823433.3	256612.2
7157	90.12	350.01	3994.02	3404.83	3354.07	-585.77	823422.2	256674.2
7220	91.72	350.17	3993.01	3467.82	3416.12	-596.61	823411.3	256736.2
7346	88.43	349.4	3992.84	3593.8	3540.1	-618.95	823389	256860.2
7422	88.43	348.78	3994.93	3669.76	3614.7	-633.33	823374.6	256934.8

T A R G E T S

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Holland 1-12H PBHL	3985.2	4930.92	-871.3	823136.6	258251		39°01'46.6	99°43'19.7	point

WELLPATH COMPOSITION Ref Wellbore: Holland 1-12H AWB Ref Wellpath: AWP

Log Name/	Start MD [ft]	End MD [ft]	Pos Unc	Model
Inteq MWD	10	7422	NaviTrak	(Standard)

DLS Build Rate Turn Rate

[°/100ft]	[°/100ft]	[°/100ft]
0	0	0
0	0	0
0.04	0.04	0
0.04	-0.04	0
0.08	0.08	0
0.12	-0.09	-24.78
0.08	0.06	-16.67
0.22	0.12	22.93
1.91	1.09	72.53
5.39	2.97	144.16
6.5	5.31	70.03
7.84	7.1	38.27
7.92	7.87	6.91
8.73	8.72	2.47
10.12	10.1	3.32
11.26	11.19	4.42
10.89	10.69	6.19
11.06	11.03	2.19
11.7	11.65	2.42
10.22	9.94	4.72
9.59	9.59	0.09
12.87	12.87	-0.48
11.26	11.25	0.69
11.66	11.65	-0.94
8.89	8.84	-1.22
9.92	9.9	-0.77
9.55	9.55	0.13
10.19	10.19	-0.09
13.72	13.69	-1.03
10.19	10.19	0.03
9	8.94	1.13
7.05	7	-0.9
6.82	6.58	-1.9
6.4	6.25	-1.44
6.22	6.12	-1.09
7.97	7.97	0.32
5.57	5.44	1.22
6.26	6.23	-0.61
6.41	6.41	0
5.56	5.55	0.29
7.72	7.25	2.66
6.72	6.66	-0.91
2.78	2.75	0.45
0.93	-0.72	-0.6
4.9	-4.77	-1.14
0.79	0.33	-0.72

0.5	0.49	-0.08
1.05	-0.05	-1.05
1.73	1.6	0.68
0.54	-0.53	0.09
0.48	-0.05	-0.48
1.71	-1.71	0.03
1.75	0.81	1.55
3.03	1.38	2.7
0.37	0.23	0.28
1.82	-1.81	-0.21
0.57	-0.09	-0.56
1.32	-0.83	-1.03
0.83	0.7	-0.44
0.69	0.68	0.1
0.76	-0.39	0.66
1.39	-1.17	-0.75
0.94	0	-0.94
2.13	2.11	-0.32
2.37	-0.3	-2.35
3.41	-2.19	2.62
1.15	-0.4	1.08
1.8	-1.73	0.51
5.69	5.28	2.11
2.43	2.24	0.95
1.95	0.87	-1.75
1.14	0.14	-1.13
4.74	-4.28	-2.03
3.96	3.85	0.93
3.68	-3.66	-0.41
4.24	3.81	1.86
6.36	6.08	1.89
0.82	0.63	-0.52
1.28	0.93	0.89
2.67	-2.51	-0.92
5.99	-5.73	-1.76
2.31	-2.14	-0.87
0.16	0.14	-0.06
2.73	2.69	-0.45
2.5	-2.4	0.71
2.55	2.54	0.25
2.68	-2.61	-0.61
0.82	0	-0.82

Comment

REALTIME LOG

BAKER HUGHES

Multiple Propagation Resistivity
Azimuthal Gamma Ray

Scale: 1:240 MD

Company: Mid-Con Energy Operating Inc.
Well: Holland 1-12H
Field: Pawnee
County: Trego **State:** Kansas

Status: Final Print

API Number: 15-195-22811-0100

Surface Location:
Latitude: 39° 0' 58.128" N
Longitude: 99° 43' 7.530" W
SEC: 12 SE TWP: 12 S RNG: 22 W

Other Services:
Directional
Reservoir Navigation

Permanent Datum (P.D.):	Ground Level	Elevation:	2327.20 ft.	Elevations:
Log Measured From:	Kelly Bushing	10.00 ft.	Above P.D.	KB: 2337.20 ft.
Depth Reference:	Driller's Depth			DF: N/A
				GL: 2327.20 ft.

Interval Logged		Dates		Magnetic Field Reference			
Top:	3353.0 ft.	Date From:	15/Sep/12	Dip Angle:	66.64 °	Azi Reference North:	Grid
Bottom:	7476.0 ft.	Date To:	07/Oct/12	Total		Mag to Reference	
		Spud Date:	05/Sep/12	Field Strength:	52674.0 nT	North Correction:	6.88 °

Borehole Record

Hole Size	From	To
8.750 in.	Surface	4475.0 ft.
6.125 in.	4476.0 ft.	7476.0 ft.

Casing Record

Size	Weight	From	To
9.625 in.	N/A	Surface	1500.0 ft.
7.000 in.	N/A	1500.0 ft.	4475.0 ft.

Mud Record

Type	From	To
Water Based	Surface	4475.0 ft.
Water Based	4475.0 ft.	7476.0 ft.

Deviation Record

Hole Size	Interval	Inc / Az (Start)	Inc / Az (End)
8.750 in.	1074.0 ft.	1.1 ° / 240.0 °	90.7 ° / 350.6 °
6.125 in.	3001.0 ft.	90.7 ° / 305.6 °	88.4 ° / 348.8 °
		/	/
		/	/
		/	/
		/	/

Acquisition System	Software Version	Other		
Advantage	2.20U3	Rig:	Trinidad 215	/ Trinidad Drilling
PATS	6.4.1.34	Job No:	4945920	
		District: / Unit:	Oklahoma	/ S2K10242815

Log Run Summary

LWD Run No.	BHA Run No.	Bit Run No.	Bit Size (in.)	Bit Type	Bit Gauge Length (in.)	Assembly Type	Logged Interval Top (ft.)	Logged Interval Bottom (ft.)	Bit Depth Interval From (ft.)	Bit Depth Interval To (ft.)	Date / Time Start	Date / Time End	Circ. Time (hrs.)
1	1	1	8.750	Roller Cone	6.000	Steerable	3353.0	4428.0	3401.0	4475.0	15/Sep/2012 13:38	18/Sep/2012 12:30	52.6
2	2	2	6.125	Roller Cone	6.000	Steerable	4428.0	5473.0	4475.0	5514.0	19/Sep/2012 19:58	22/Sep/2012 10:30	45.7
3	3	3	6.125	Roller Cone	6.000	Steerable	5473.0	6549.0	5514.0	6592.0	22/Sep/2012 12:11	26/Sep/2012 02:45	73.7
4	4	4	6.125	Roller Cone	6.000	Steerable	6549.0	6767.0	6592.0	6811.0	26/Sep/2012 03:45	27/Sep/2012 15:30	24.5
5	5	5	6.125	Roller Cone	6.000	Steerable	6767.0	7344.0	6811.0	7407.0	27/Sep/2012 17:09	09/30/12 21:20	47.4
6	6	6	6.125	Roller Cone	6.000	Steerable	7344.0	7450.0	7407.0	7476.0	01/Oct/2012 01:30	06/Oct/2012 14:00	8.6

Crew

Name	Arrive	Depart	Name	Arrive	Depart	Name	Arrive	Depart

	Wellsite	Wellsite		Wellsite	Wellsite		Wellsite	Wellsite
Sairav Parab	14/Sep/2012	07/Oct/2012	David Luttrell	14/Sep/2012	22/Sep/2012	Wes Thornhill	22/Sep/2012	30/Sep/2012
Jose Rodriguez	15/Sep/2012	06/Oct/2012	Andrew Sims	15/Sep/2012	05/Oct/2012	Gary Igleheart	30/Sep/2012	07/Oct/2012

Witness

Name	LWD Run Number
Ryan Logsdon	1, 2, 3, 4, 5, 6

Mud Properties Record

Date / Time	LWD Run No.	Measured Depth (ft.)	Mud Type	Density (ppg)	Viscosity (cp)	pH	Fluid Loss (cc)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
18/Sep/2012 07:30	1	4077.0	Water Based	9.0	18	9.5	4.2	0/95.4	Flow Line	6000	N/A
21/Sep/2012 07:30	2	4477.0	Water Based	9.0	18	9.5	4.2	0/99	Flow Line	6000	N/A
23/Sep/2012 07:30	3	5815.0	Water Based	8.4	18	9.5	6.4	0/99	Flow Line	6000	N/A
27/Sep/2012 07:30	4	6806.0	Water Based	9.0	26	9.5	2.5	0/95.2	Flow Line	400	N/A
28/Sep/2012 07:30	5	7050.0	Water Based	8.8	25	9.5	6.4	0/96.5	Flow Line	400	N/A
01/Oct/2012 17:30	6	7476.0	Water Based	8.9	27	9.0	6.4	0/95.7	Flow Line	400	N/A

Mud Resistivity Record

				Surface				Downhole		
Date / Time	LWD Run No.	Measured Depth (ft.)	Surface Temp (deg F)	Rm (ohm.m)	Rmf (ohm.m)	Rmc (ohm.m)	BHCT (deg F)	Rm @ BHCT (ohm.m)	Rmf @ BHCT (ohm.m)	Rmc @ BHCT (ohm.m)
21/Sep/2012 07:00	2	4077.0	78	1.50	1.50	1.50	128	0.93	0.93	0.93
23/Sep/2012 12:01	3	5896.0	87	1.50	1.50	1.50	134	0.99	0.99	0.99
27/Sep/2012 12:01	4	6806.0	75	1.50	1.50	1.50	134	1.11	1.11	1.11
28/Sep/2012 23:00	5	7050.0	70	1.50	1.50	1.50	134	0.81	0.81	0.81
01/Oct/2012 01:45	6	7422.0	87	1.50	1.50	1.50	139	0.95	0.95	0.95

Mnemonics

Curve	Description	Units
GRAX	Average Gamma Ray Apparent, 0.5 ft average	API
INNX	Survey Inclination	deg
ROP	Rate of Penetration	ft / hr
GRTVDX	Gamma Ray True Vertical Depth	ft
GRAUX	Gamma Ray Apparent – Up Quadrant	API
GRADX	Gamma Ray Apparent – Down Quadrant	API
RPCHX	Compensated and Corrected Resistivity, 2 Mhz, Long Space, Phase Difference	ohm.m
RACHX	Compensated and Corrected Resistivity, 2 Mhz, Long Space, Attenuation	ohm.m

Equipment and Service Data

LWD Run	Tool	Serial Number	Measurement	Bit Offset	Max O.D.	Min I.D.

No.				(ft)	(in.)	(in.)
1	SRIG	10433831	Gamma	47.21	6.750	2.569
1	DIR	12168817	Directional	42.21	6.750	2.569
2	DIR	11592386	Directional	47.14	4.750	2.569
2	GAM	11592386	Gamma	42.46	4.750	1.750
2	MPR	11592386	Multiple Propagation Resistivity	33.97	4.750	1.750
2	APR	11592383	Azimuthal Propagation Resistivity	33.97	4.750	1.750
2	AP	11592386	Annular Pressure	38.40	4.750	1.750
3	DIR	11592386	Directional	47.14	4.750	1.750
3	GAM	11592386	Gamma	42.46	4.750	1.750
3	MPR	11592386	Multiple Propagation Resistivity	33.97	4.750	1.750
3	APR	11592386	Azimuthal Propagation Resistivity	33.97	4.750	1.750
3	AP	11592386	Annular Pressure	38.40	4.750	1.750
4	DIR	11592386	Directional	45.23	4.750	1.750
4	GAM	11592386	Gamma	40.55	4.750	1.750
4	MPR	11592386	Multiple Propagation Resistivity	32.06	4.750	1.750
4	APR	11592386	Azimuthal Propagation Resistivity	32.06	4.750	1.750
4	AP	11592386	Annular Pressure	36.49	4.750	1.750
5	DIR	11592386	Directional	40.91	4.750	1.750
5	GAM	11592386	Gamma	36.23	4.750	1.750
5	MPR	11592386	Multiple Propagation Resistivity	27.74	4.750	1.750
5	APR	11592386	Azimuthal Propagation Resistivity	27.74	4.750	1.750
5	AP	11592386	Annular Pressure	32.17	4.750	1.750
6	DIR	12517557	Directional	38.43	4.750	1.750
6	GAM	12517557	Gamma	25.27	4.750	1.750
6	MPR	12517557	Multiple Propagation Resistivity	32.46	4.750	1.750
6	APR	12517557	Azimuthal Propagation Resistivity	27.74	4.750	1.750
6	AP	12517557	Annular Pressure	27.90	4.750	1.750

Service and Tool Mnemonics

Mnemonic	Name	Description
DIR	Directional	Wellbore directional survey
SRIG	Inclination and Gamma	Probe based gamma ray and inclination module
GAM	Gamma	Collar based Azimuthal Gamma Ray Module
MPR	Resistivity	Collar based Multiple Propagation Resistivity Module
AP	Annular Pressure	Annular Pressure Sensor
APR	Azimuthal Restivity	Azimuthal Propagation Resistivity Module

Comments

1) Baker Hughes Inteq run 1 utilized 6 3/4 NaviGamma Service (Directional and Gamma Ray) behind an 8 3/4 inch bit and steerable assembly from 3353 to 4475 feet MD (3353 to 3999 feet TVD).

2) Baker Hughes Inteq runs 2 through x utilized 4 3/4 Multiple Propagation Resistivity Service (Azitrak) behind a 6 1/8 inch bit and steerable assembly from 4476 to 7476 feet MD (3999 to 3997 feet TVD).

3) Depth measurements were obtained from a depth control system not supplied by Baker Hughes INTEQ. Due to the lack of control by Baker Hughes INTEQ logging engineers, depth calibrations and measurements could not be independently verified and the unverified depths as supplied to INTEQ are being used to present logging data.

Remarks

Number	Measured Depth (ft)	Hole Section (in.)	LWD Run No.	Remark
1	3353	8.750	1	The interval from 3353 to 3401 feet MD (3353 to 3400 feet TVD) was logged due to Gamma Ray sensor to bit offset at the start of well logging.
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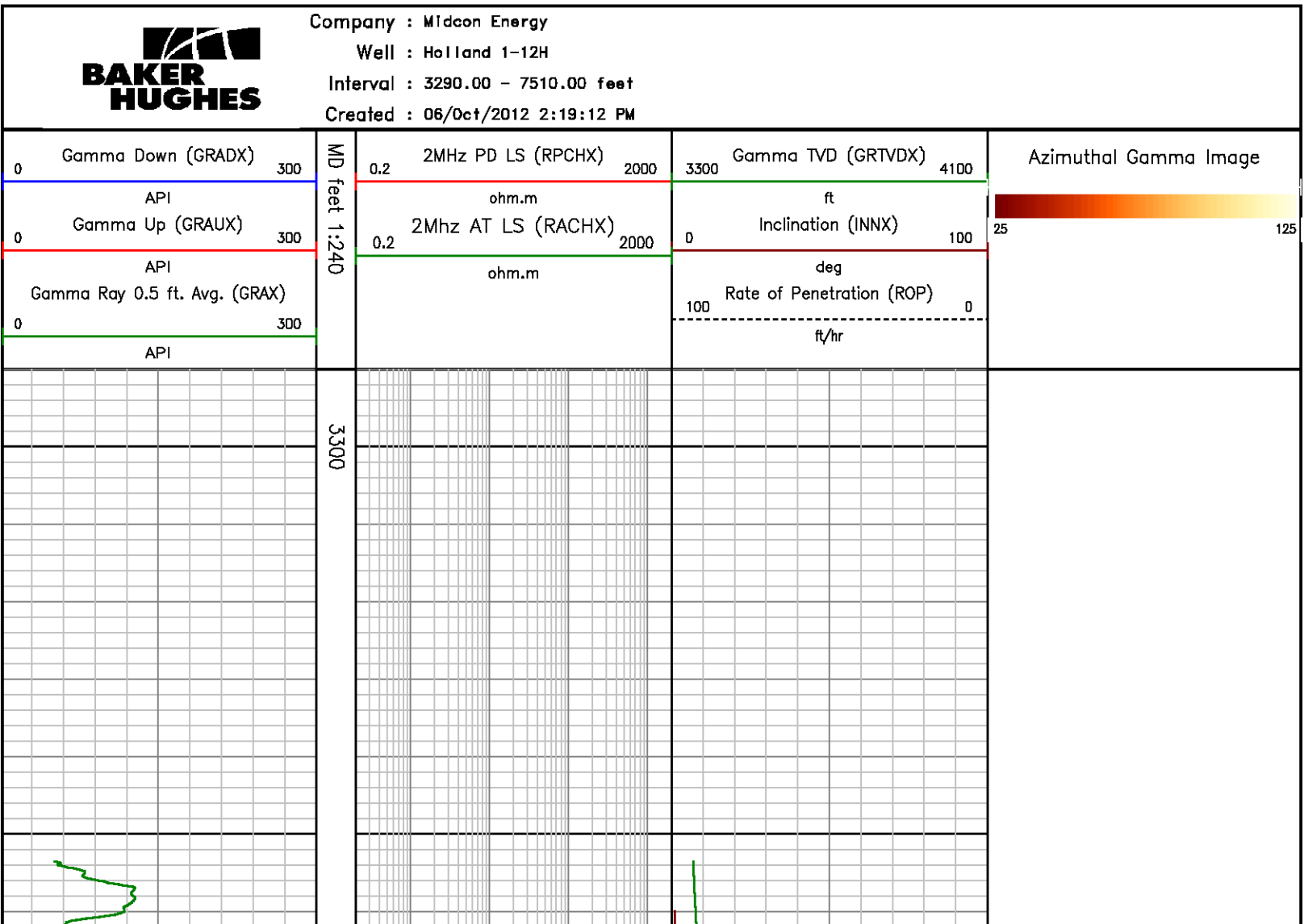
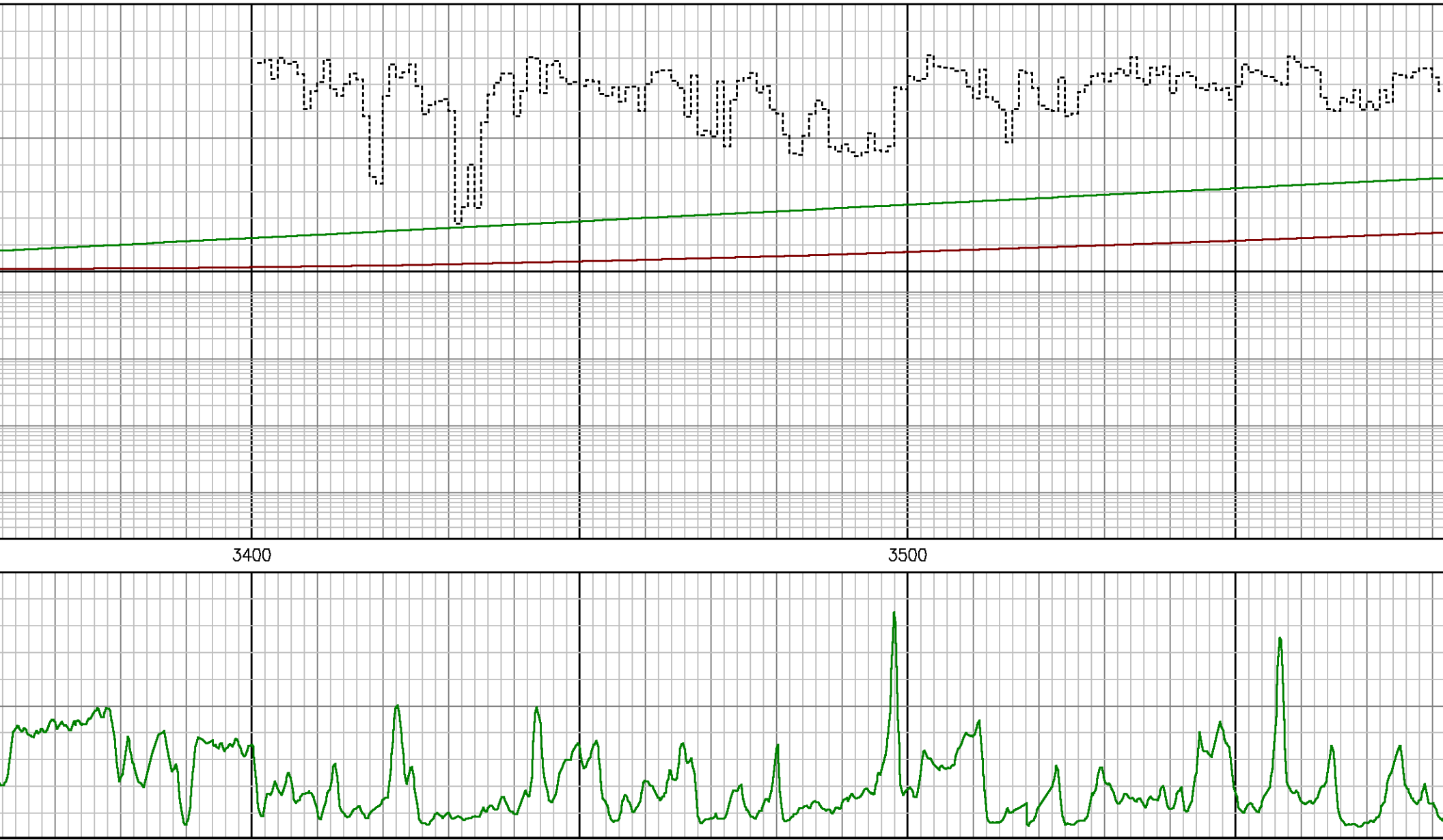
4	6547	6.125	3	The interval from 6547 to 6592 feet MD (4022 to 4023 feet TVD) was logged up to 10 hours after being drilled due to a trip out of hole to change the bit.
5	6767	6.125	4	The interval from 6767 to 6811 feet MD (4007 to 4002 feet TVD) was logged up to 13 hours after being drilled due to a trip out of hole to pick up an Agitator and change the bit.
6	7344	6.125	5	The interval from 7344 to 7407 feet MD (3944 to 3995 feet TVD) was logged up to 42.3 hours after being drilled due to a trip out of hole to pick up an Agitator and change the bit.
7	7476	6.125	6	The interval from 7452 to 7476 feet MD (3997 to 3997 feet TVD) was not logged due to Gamma Ray sensor to bit offset at well TD.

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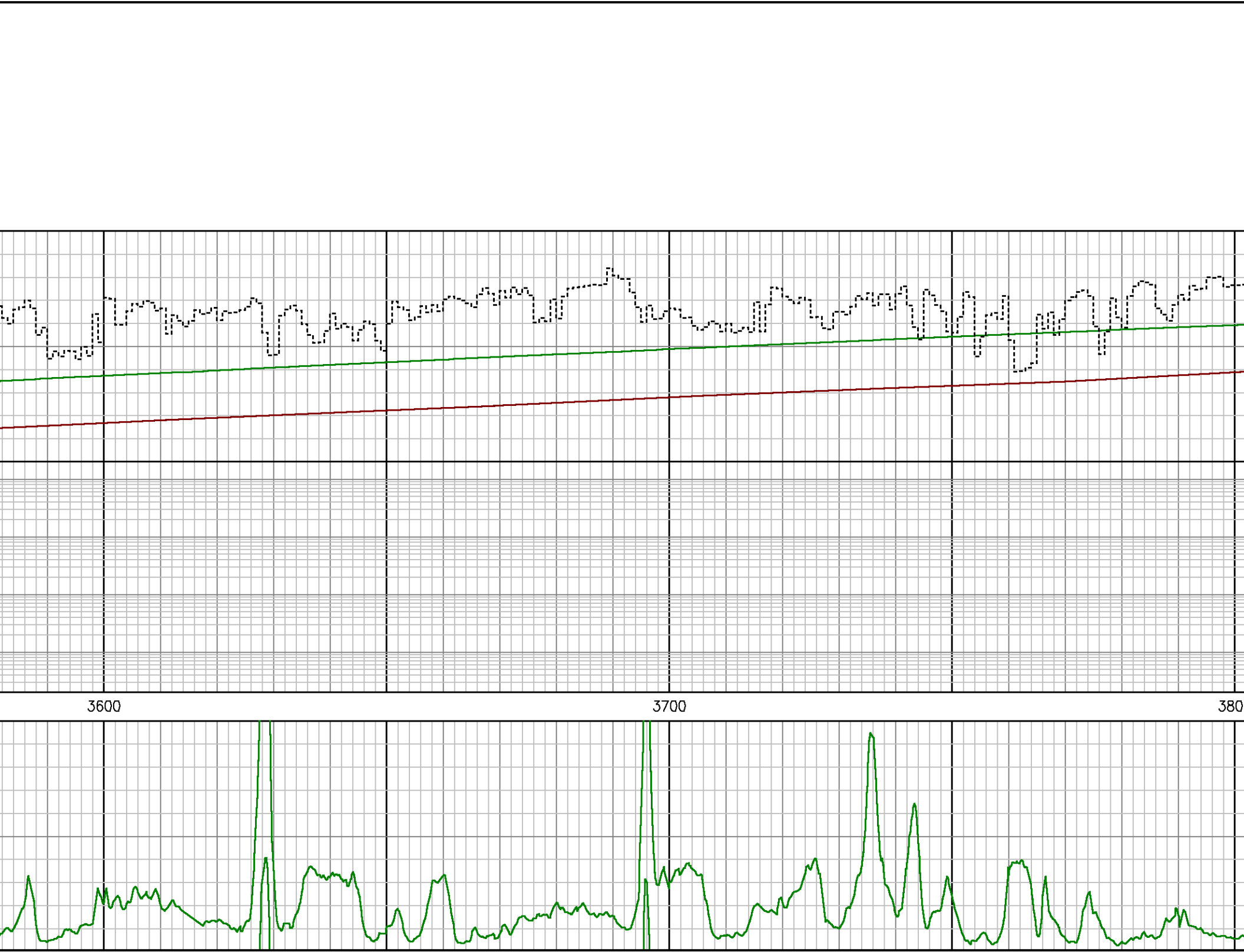
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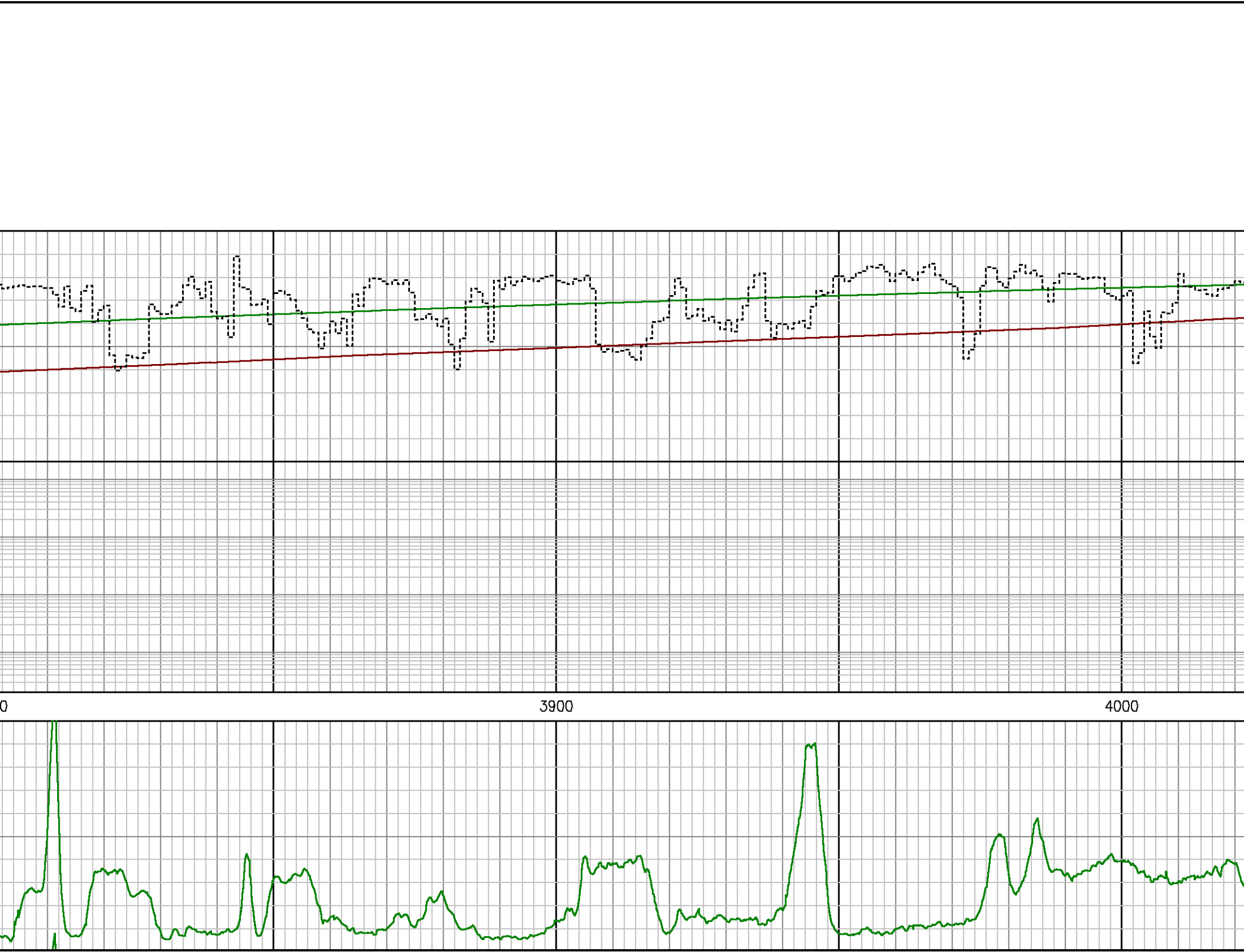
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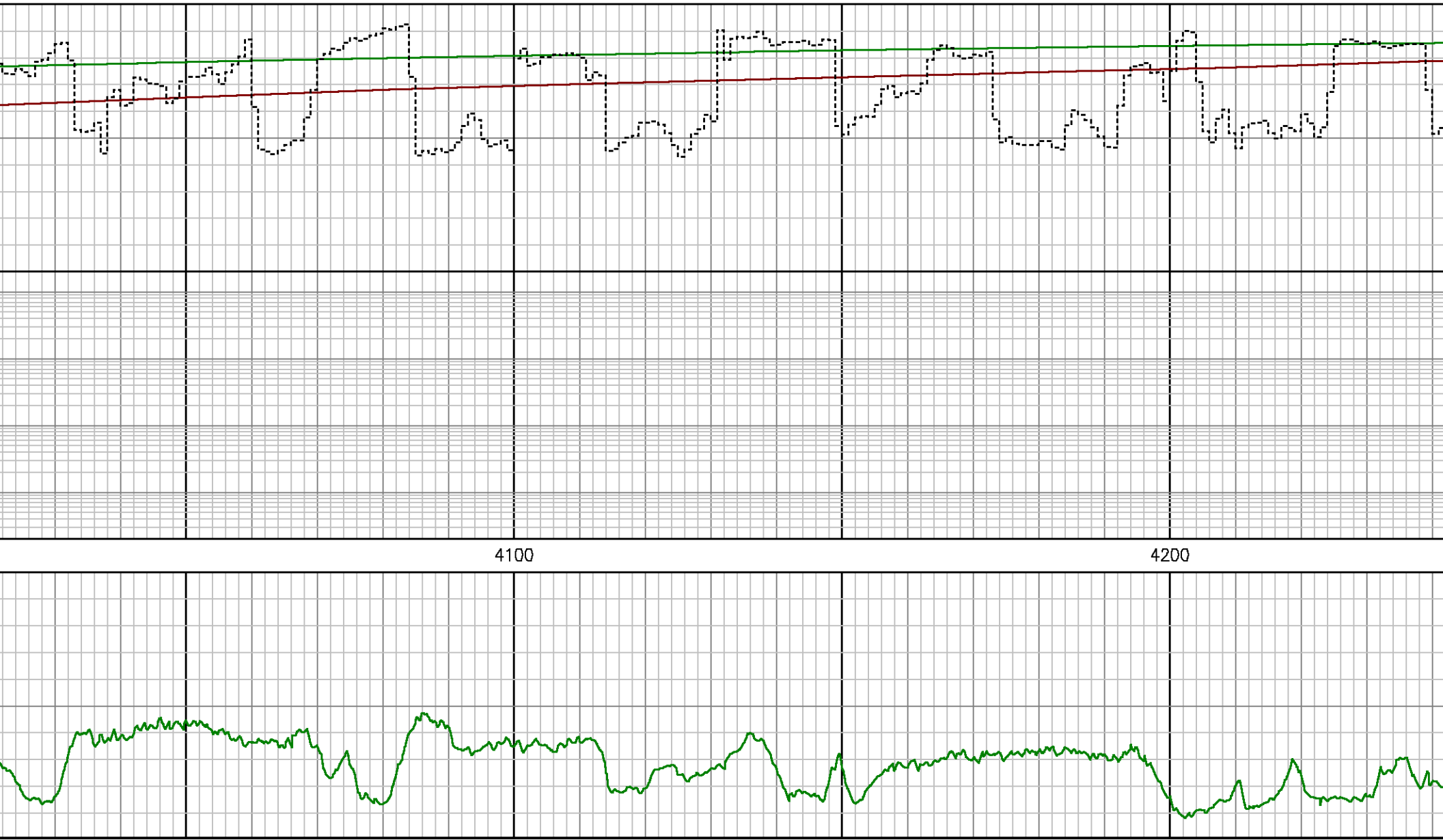
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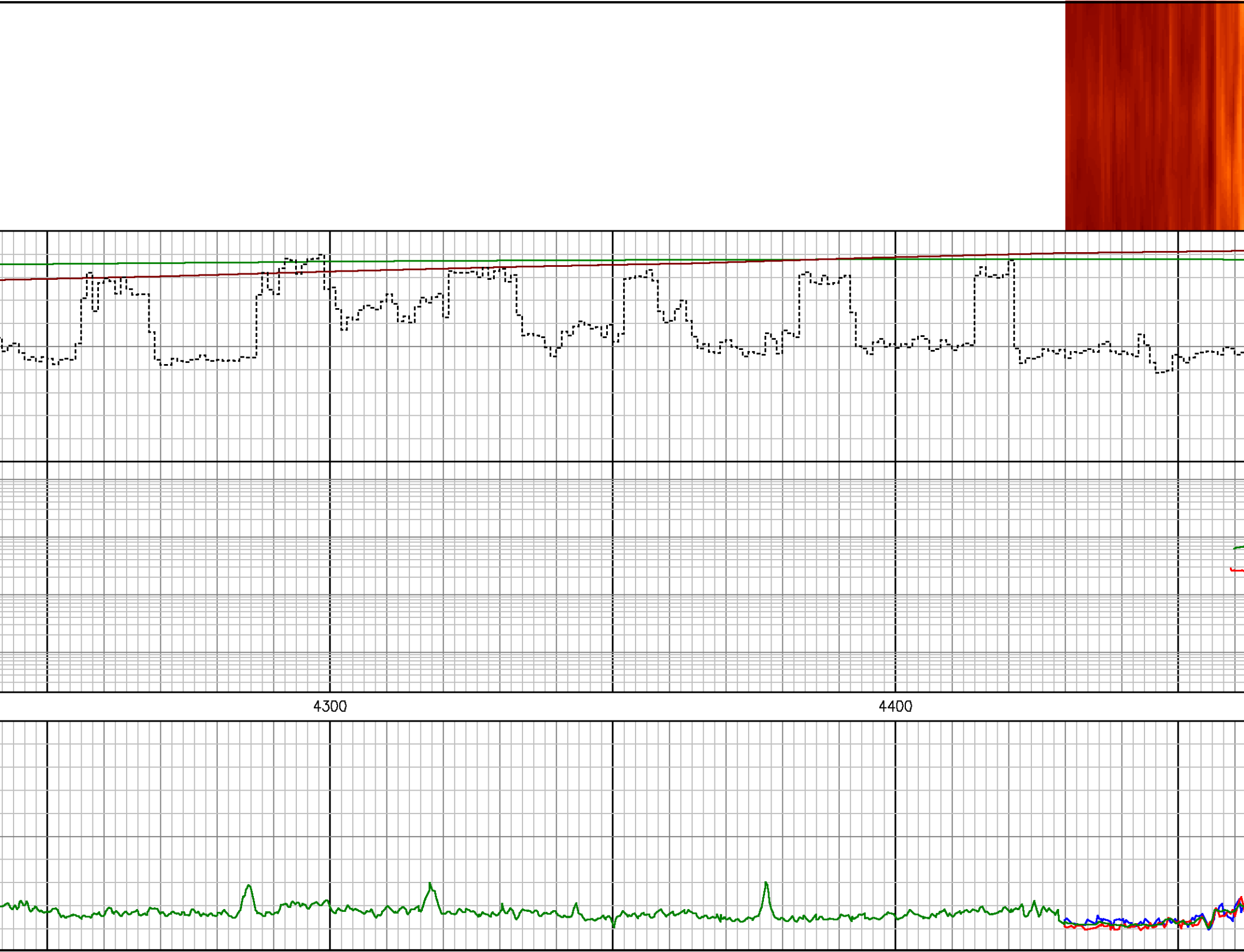
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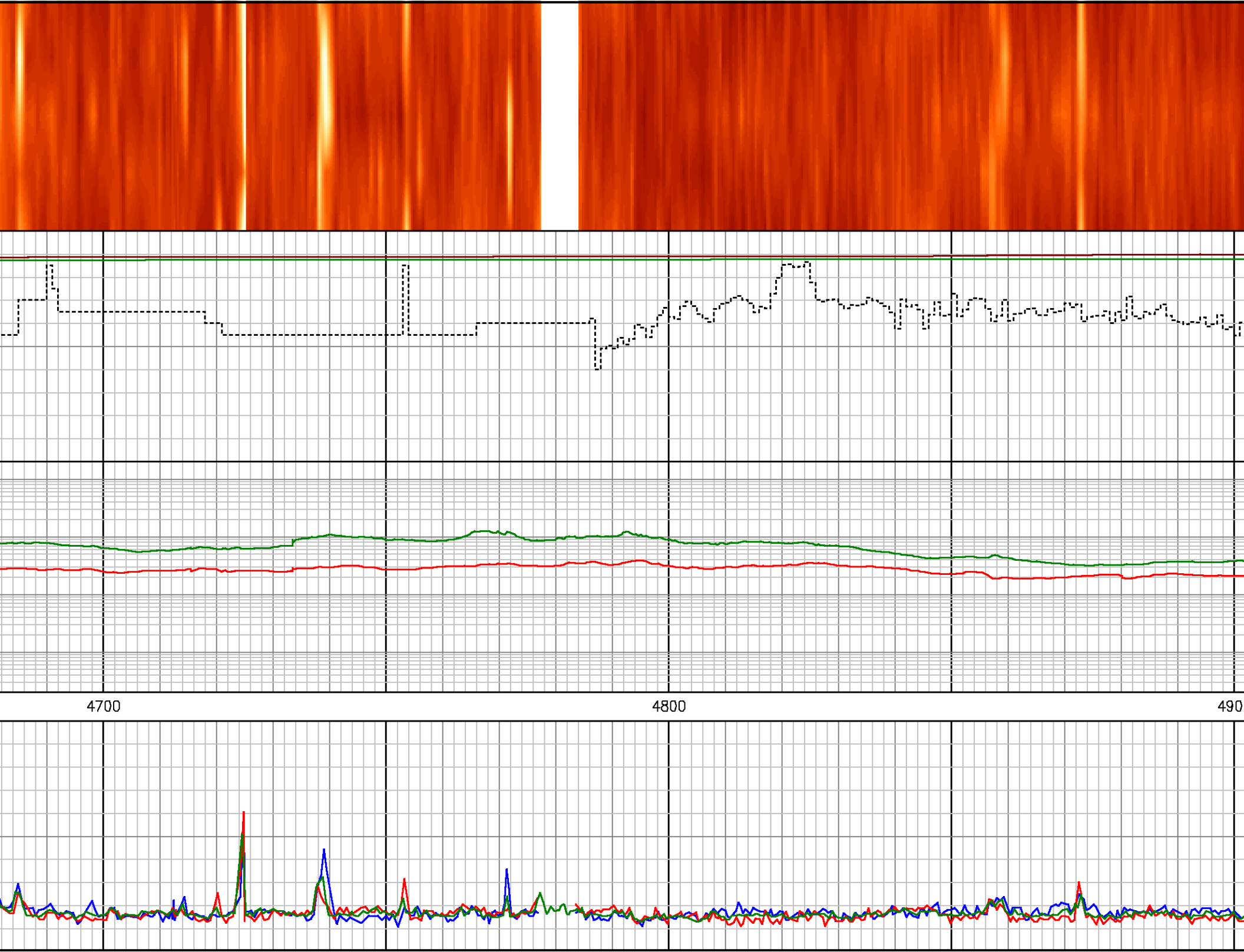
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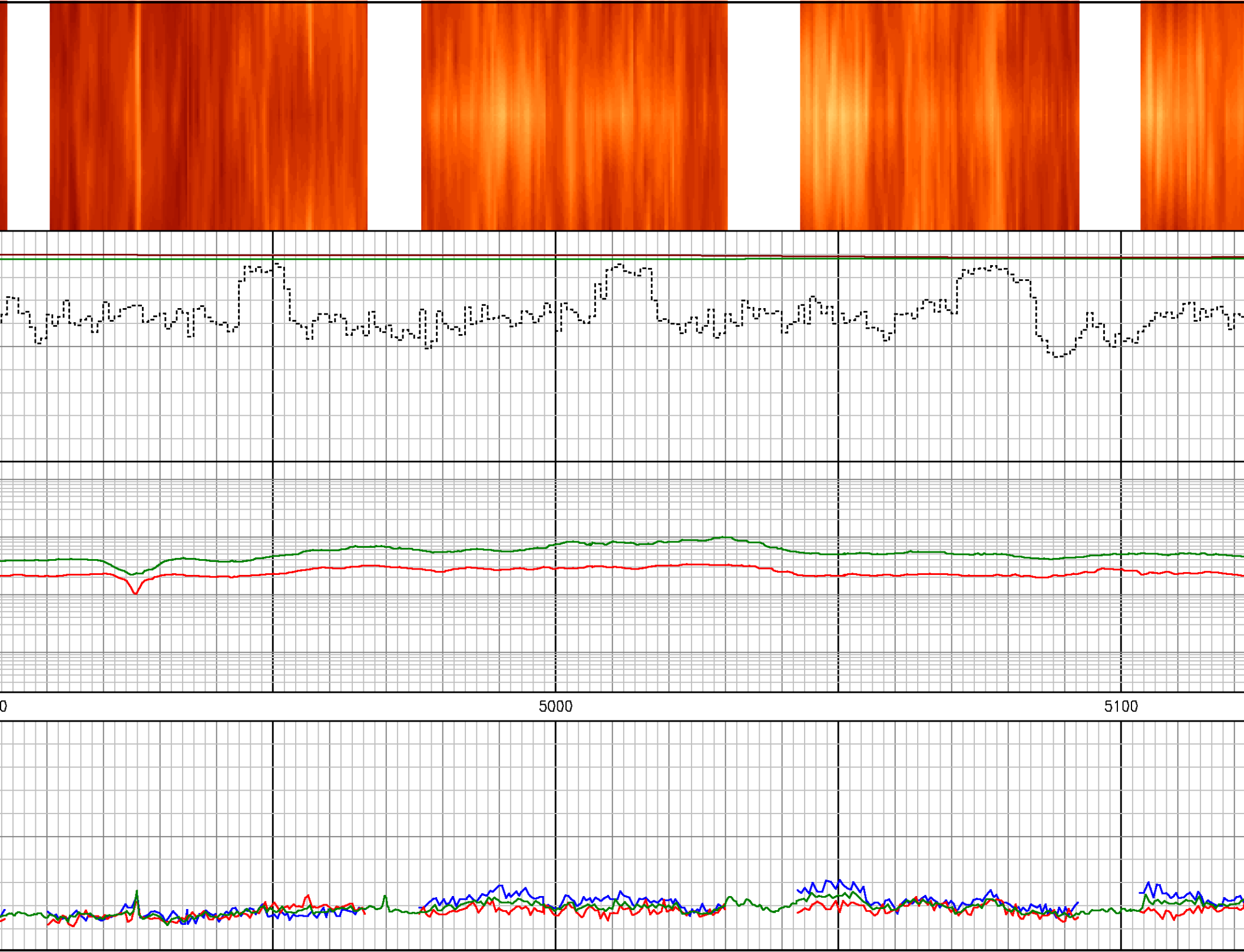
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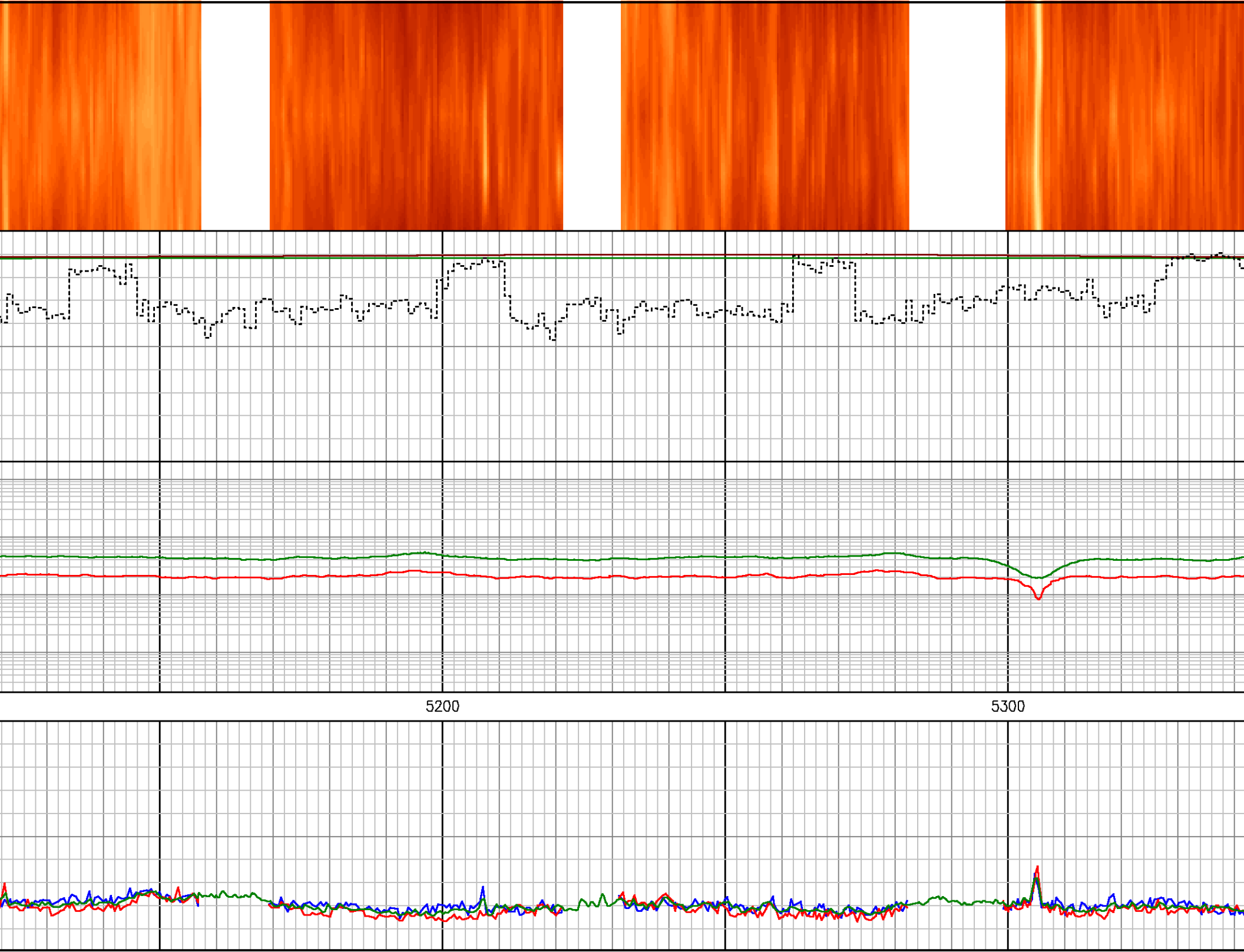
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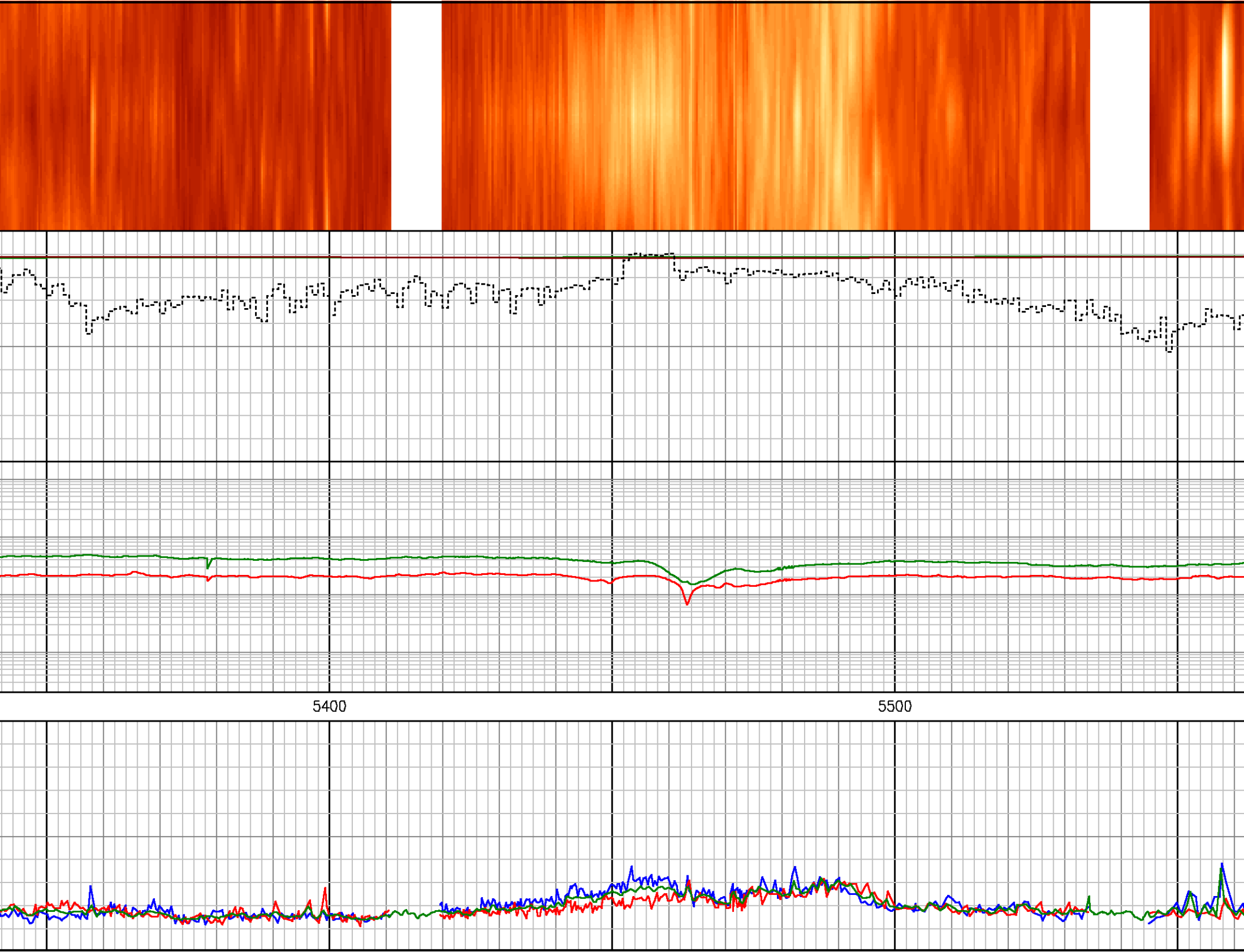
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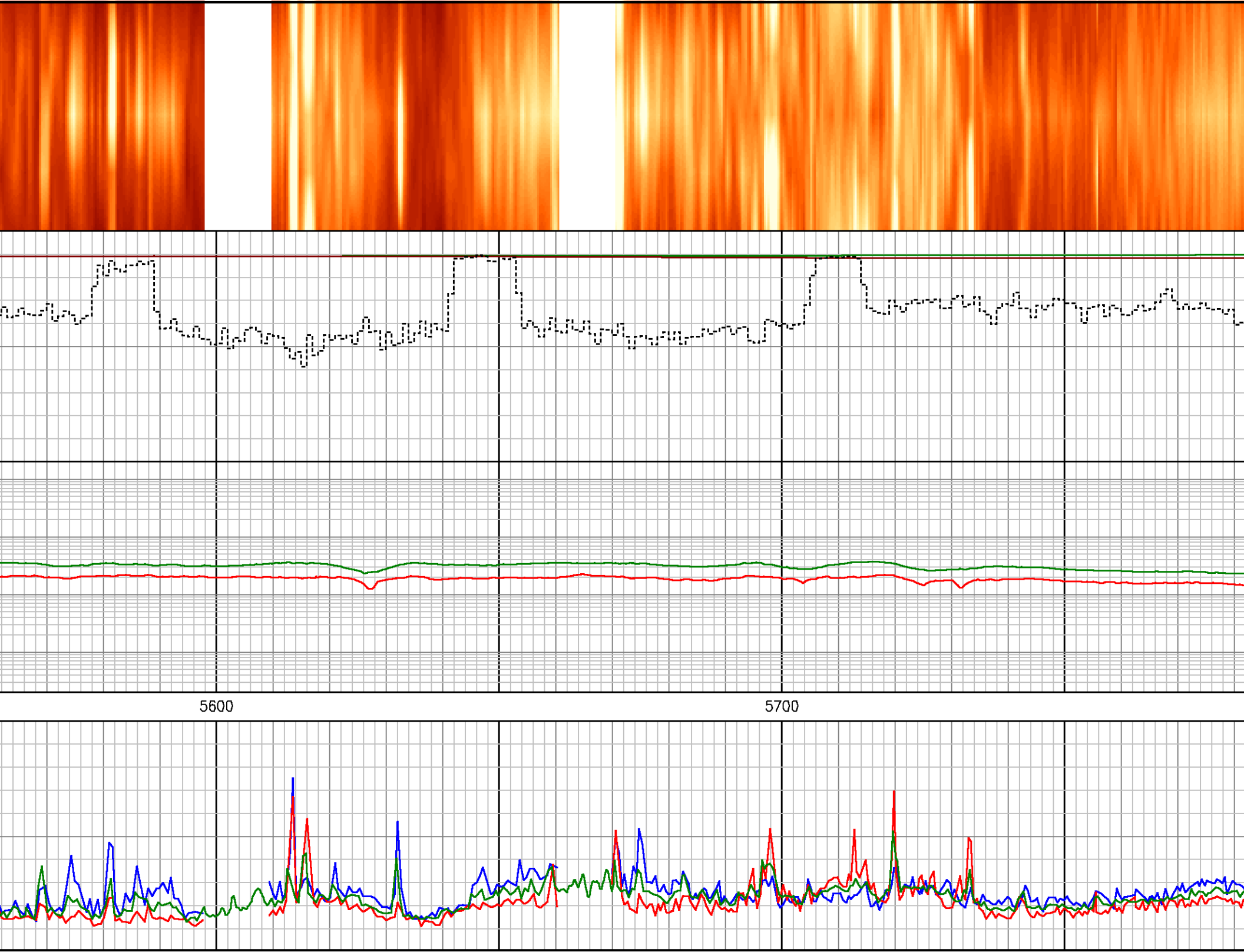
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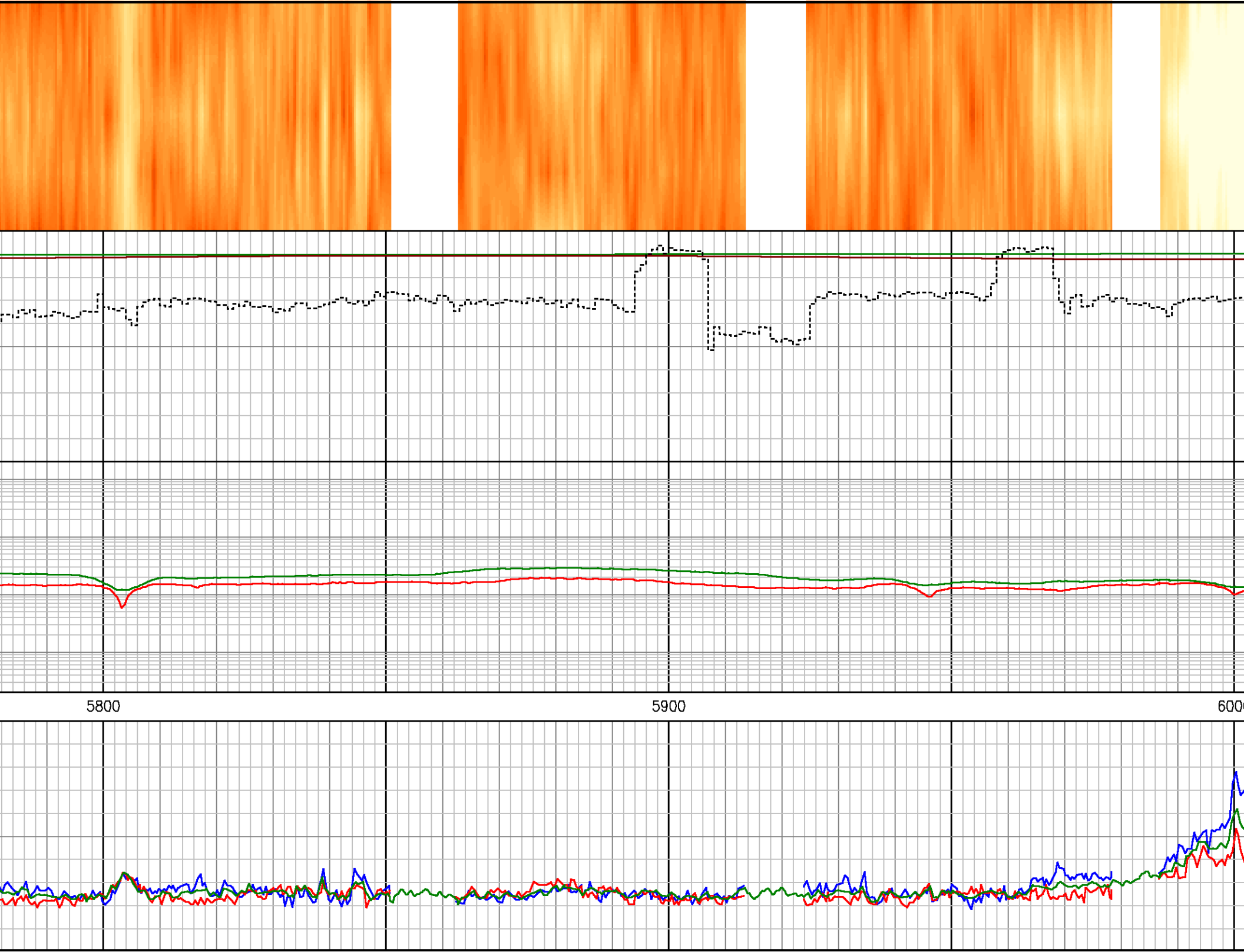
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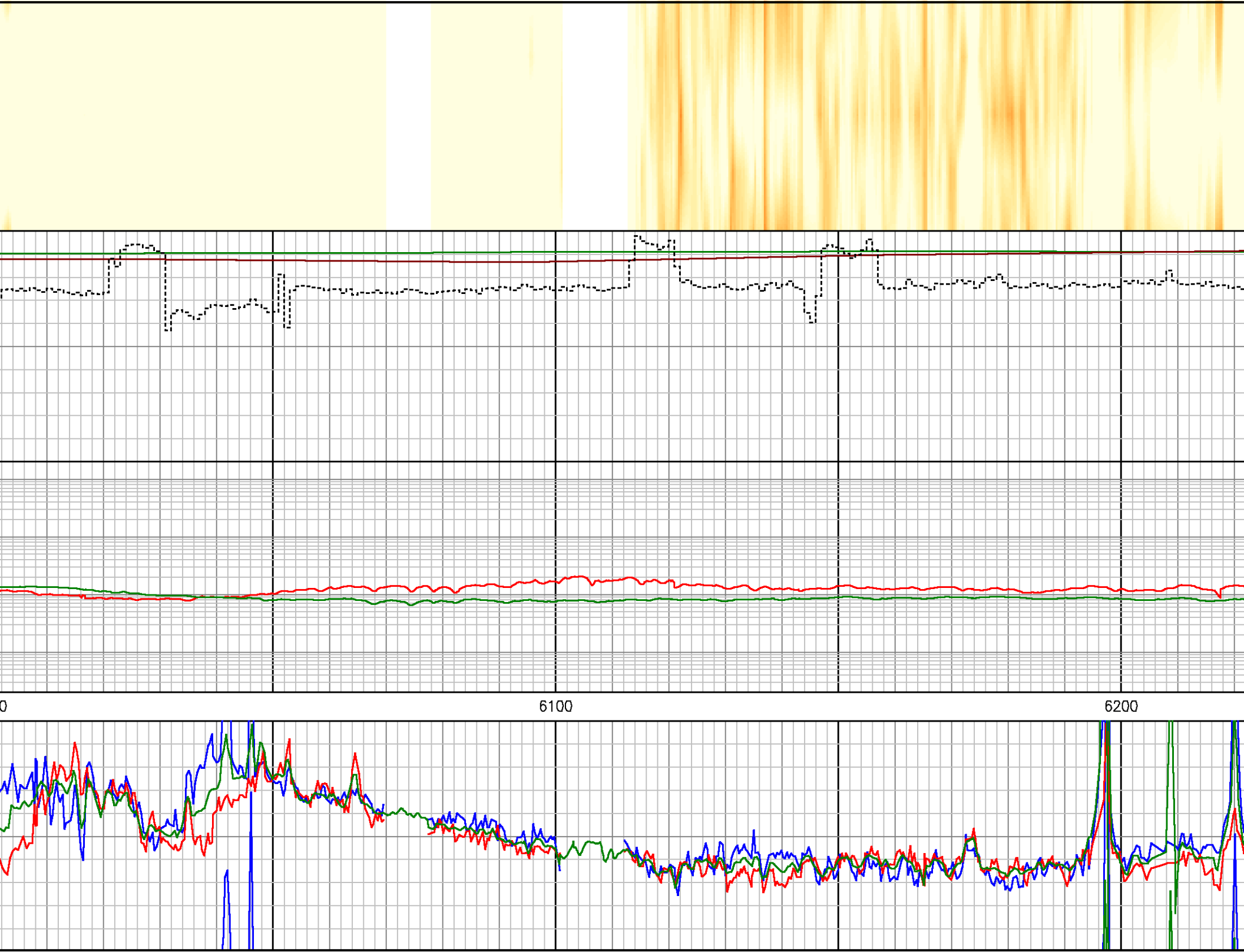
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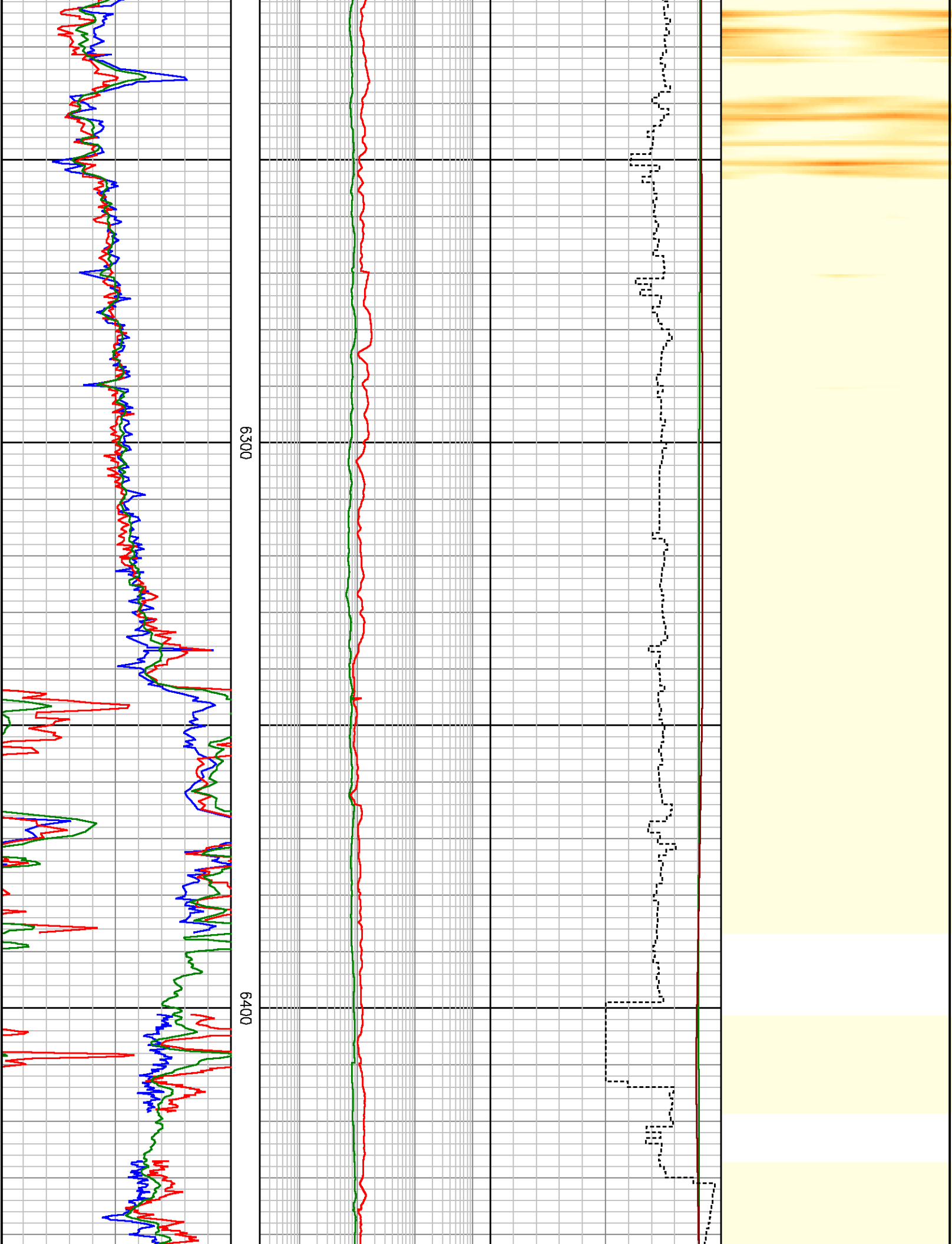
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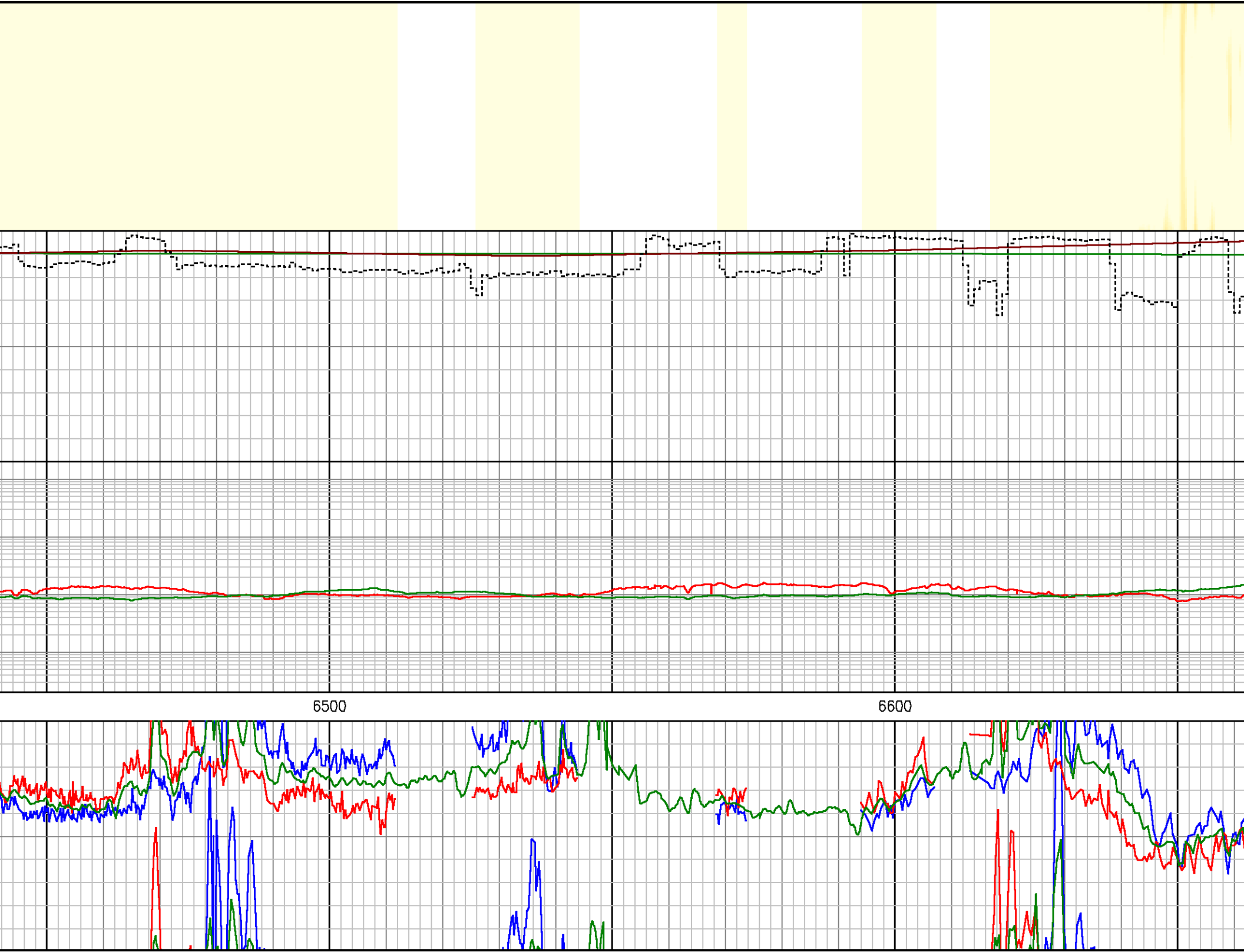
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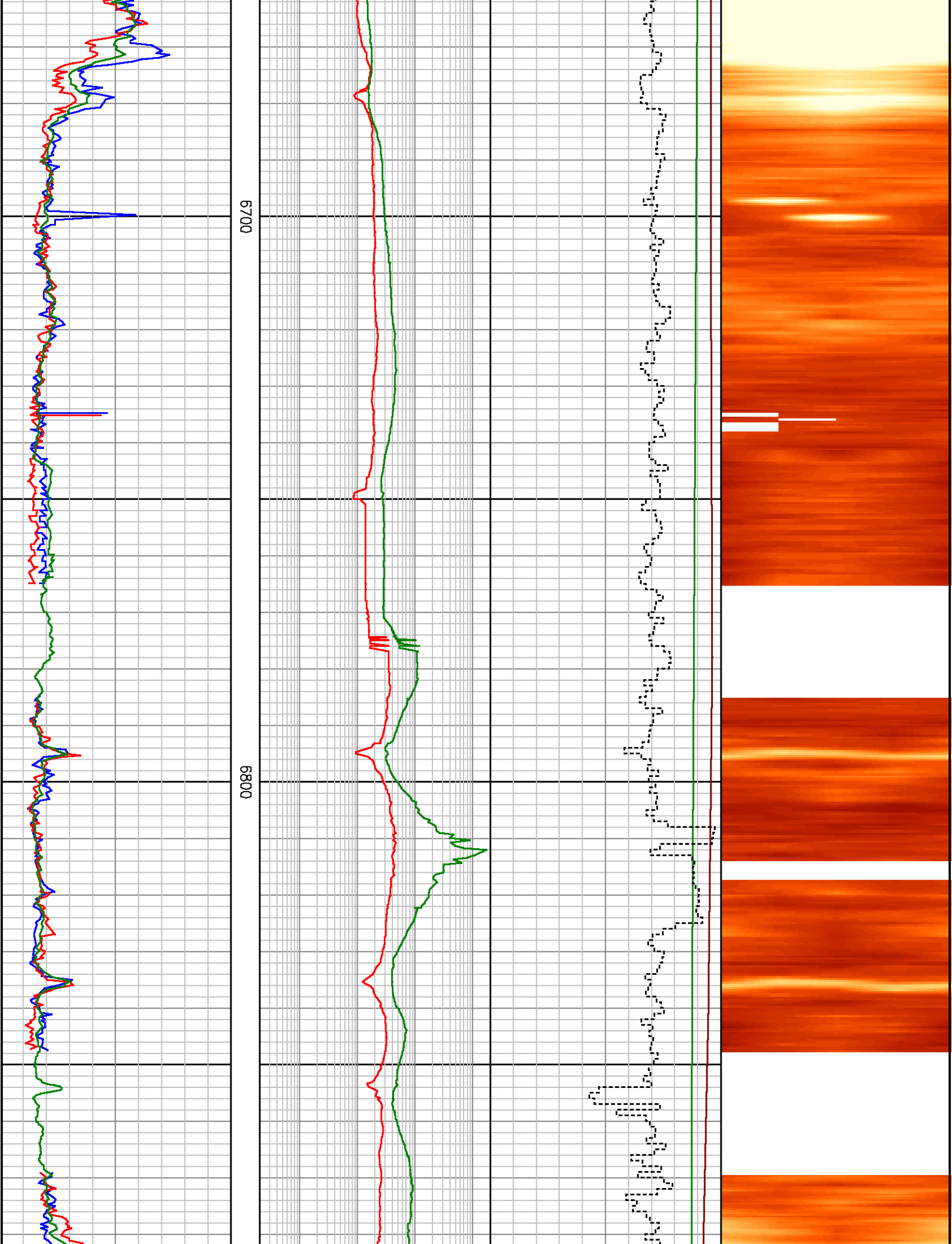
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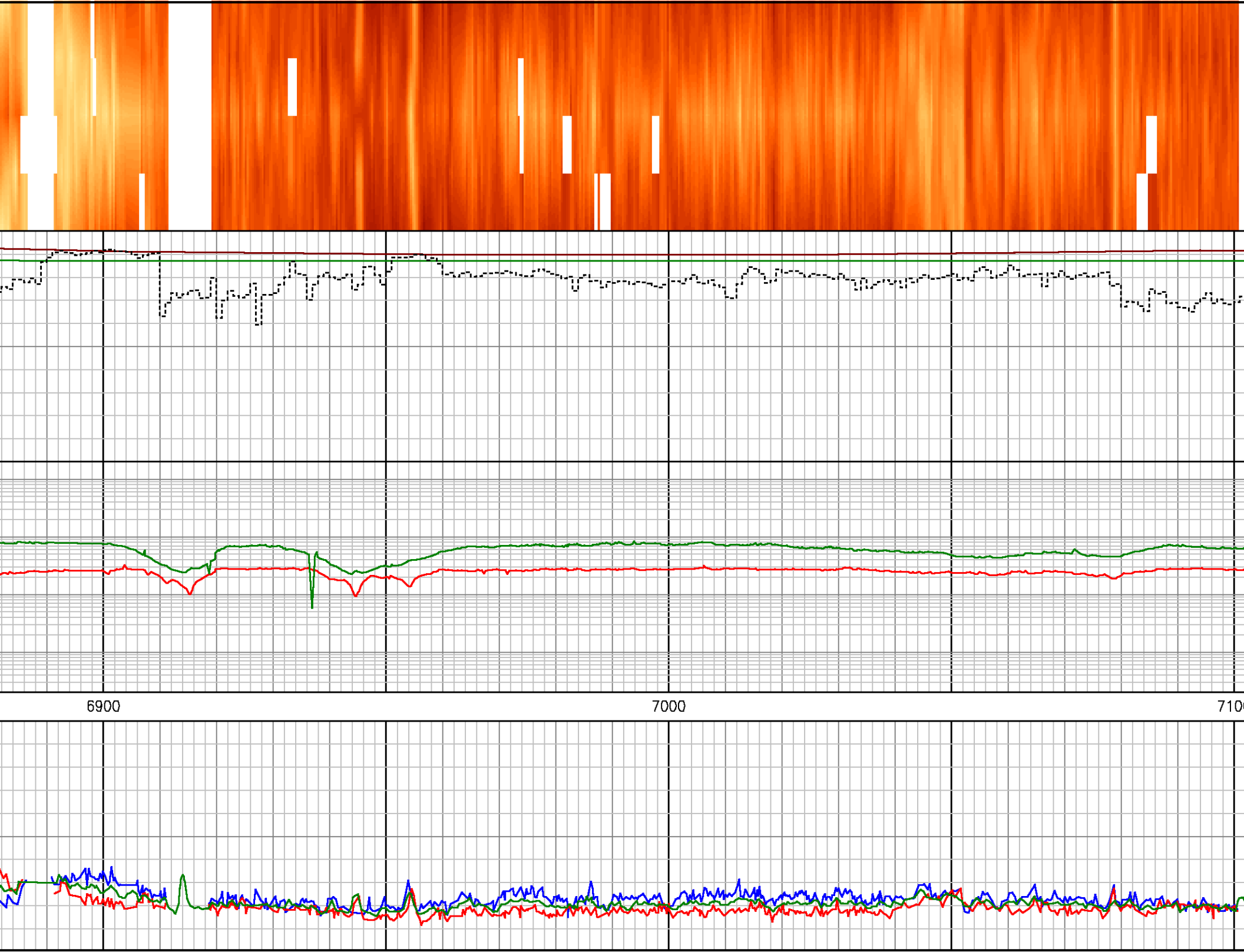
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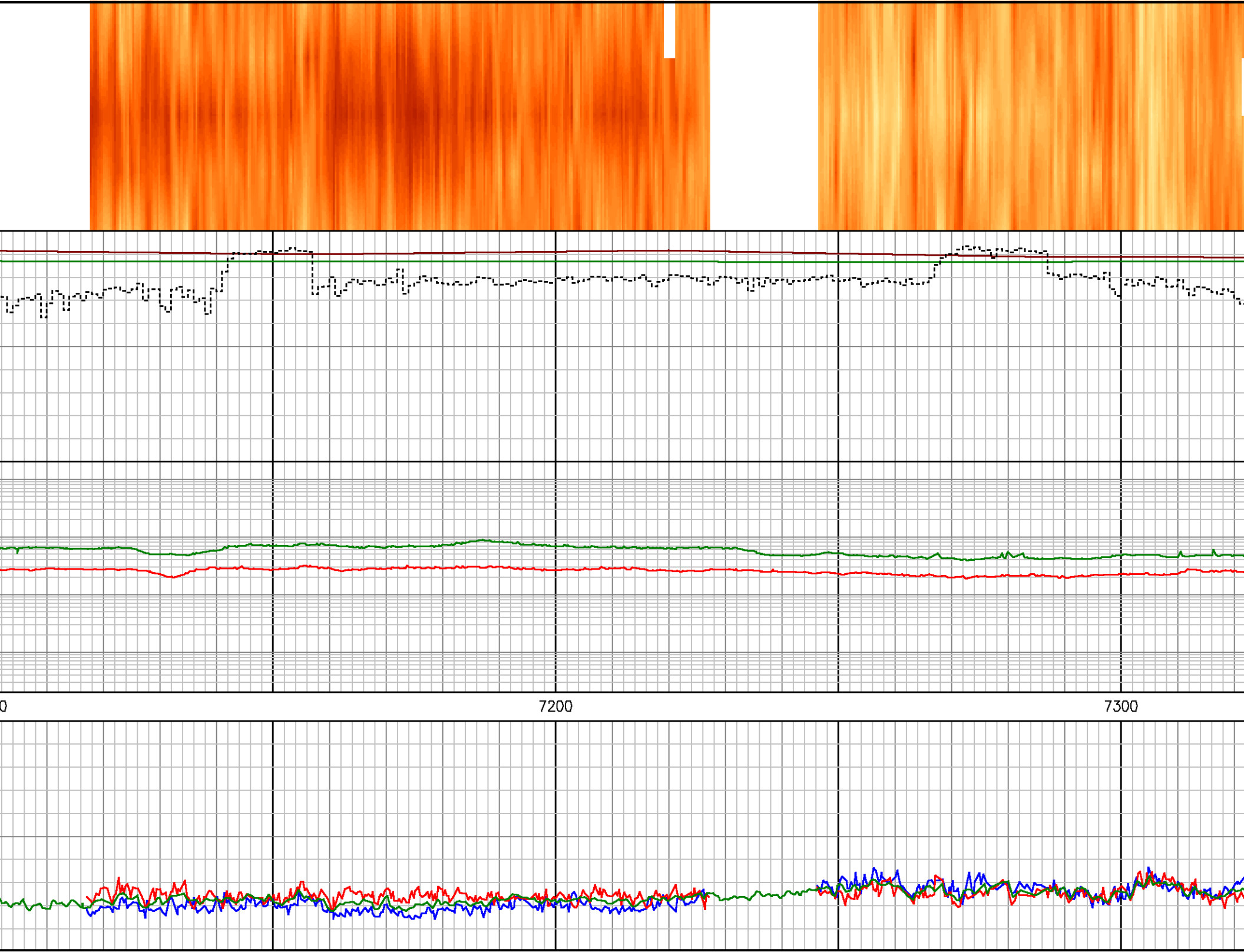
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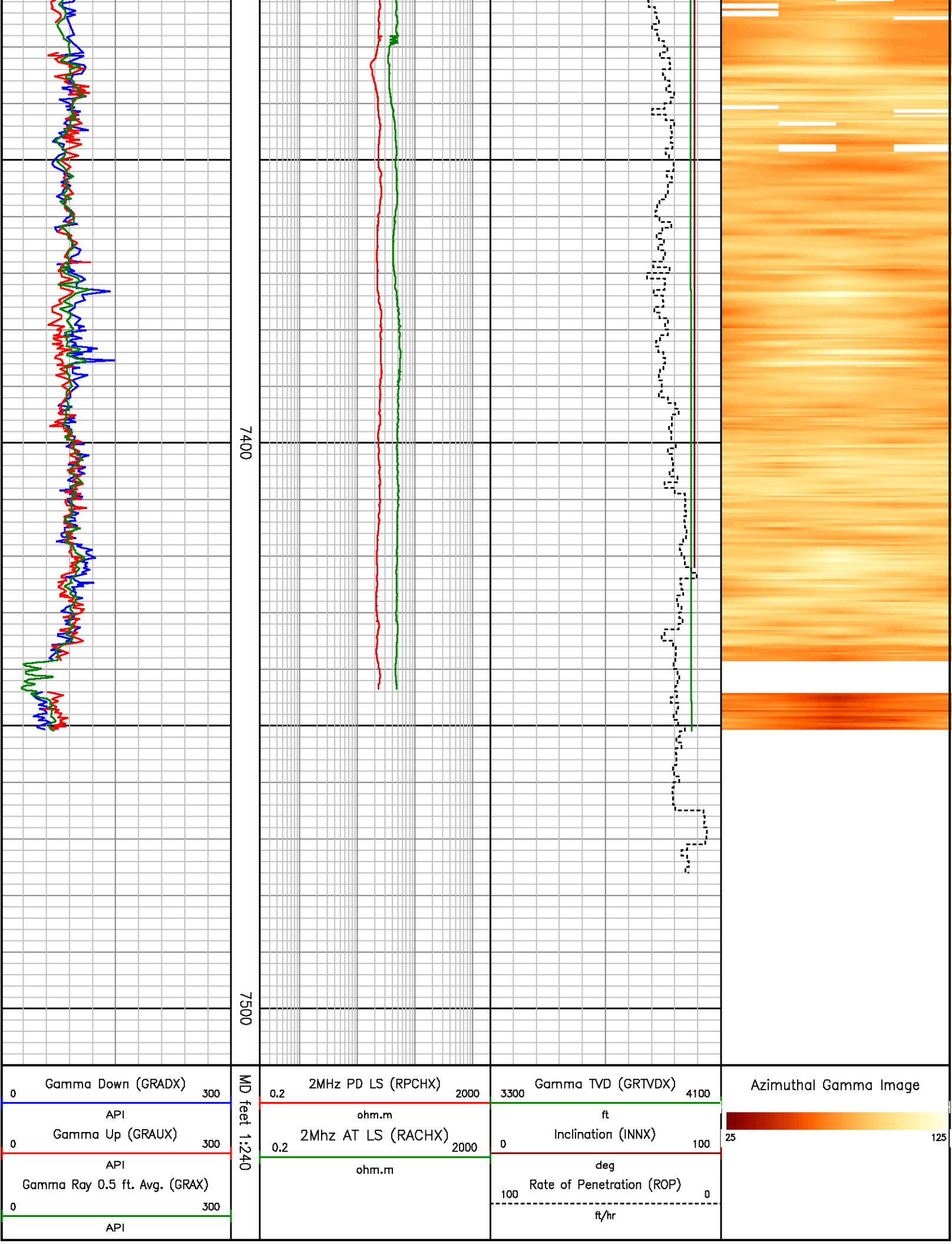
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Gamma Down (GRADX)
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API
Gamma Up (GRAUX)
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300
API
Gamma Ray 0.5 ft. Avg. (GRAX)
0
300
API
MD feet 1:240
2MHz PD LS (RPCHX)
0.2
2000
ohm.m
2Mhz AT LS (RACHX)
0.2
2000
ohm.m
Gamma TVD (GRTVDX)
3300
4100
ft
Inclination (INNX)
0
100
deg
Rate of Penetration (ROP)
100
0
ft/hr
Azimuthal Gamma Image
25
125

REALTIME LOG

BAKER HUGHES

Multiple Propagation Resistivity
Azimuthal Gamma Ray

Scale: 1:240 TVD

Company: Mid-Con Energy Operating Inc.

Well: Holland 1-12H

Field: Pawnee

County: Trego **State:** Kansas

Status: Final Print

API Number: 15-195-22811-0100

Surface Location:
Latitude: 39° 0' 58.128" N
Longitude: 99° 43' 7.530" W
SEC: 12 SE TWP: 12 S RNG: 22 W

Other Services:
Directional
Reservoir Navigation

Permanent Datum (P.D.):	Ground Level	Elevation:	2327.20 ft.
Log Measured From:	Kelly Bushing	10.00 ft.	Above P.D.
Depth Reference:	Driller's Depth		

Elevations:
KB: 2337.20 ft.
DF: N/A
GL: 2327.20 ft.

Interval Logged		Dates		Magnetic Field Reference			
Top:	3353.0 ft.	Date From:	15/Sep/12	Dip Angle:	66.64 °	Azi Reference North:	Grid
Bottom:	7476.0 ft.	Date To:	07/Oct/12	Total		Mag to Reference	
		Spud Date:	05/Sep/12	Field Strength:	52674.0 nT	North Correction:	6.88 °

Borehole Record			Casing Record			
Hole Size	From	To	Size	Weight	From	To
8.750 in.	Surface	4475.0 ft.	9.625 in.	N/A	Surface	1500.0 ft.
6.125 in.	4476.0 ft.	7476.0 ft.	7.000 in.	N/A	1500.0 ft.	4475.0 ft.

Mud Record			Deviation Record			
Type	From	To	Hole Size	Interval	Inc / Az (Start)	Inc / Az (End)
Water Based	Surface	4475.0 ft.	8.750 in.	1074.0 ft.	1.1 ° / 240.0 °	90.7 ° / 350.6 °
Water Based	4475.0 ft.	7476.0 ft.	6.125 in.	3001.0 ft.	90.7 ° / 305.6 °	88.4 ° / 348.8 °
					/	/
					/	/
					/	/
					/	/

Acquisition System	Software Version	Other		
Advantage	2.20U3	Rig:	Trinidad 215	/ Trinidad Drilling
PATS	6.4.1.34	Job No:	4945920	
		District: / Unit:	Oklahoma	/ S2K10242815

Log Run Summary

LWD Run No.	BHA Run No.	Bit Run No.	Bit Size (in.)	Bit Type	Bit Gauge Length (in.)	Assembly Type	Logged Interval Top (ft.)	Logged Interval Bottom (ft.)	Bit Depth Interval From (ft.)	Bit Depth Interval To (ft.)	Date / Time Start	Date / Time End	Circ. Time (hrs.)
1	1	1	8.750	Roller Cone	6.000	Steerable	3353.0	4428.0	3401.0	4475.0	15/Sep/2012 13:38	18/Sep/2012 12:30	52.6
2	2	2	6.125	Roller Cone	6.000	Steerable	4428.0	5473.0	4475.0	5514.0	19/Sep/2012 19:58	22/Sep/2012 10:30	45.7
3	3	3	6.125	Roller Cone	6.000	Steerable	5473.0	6549.0	5514.0	6592.0	22/Sep/2012 12:11	26/Sep/2012 02:45	73.7
4	4	4	6.125	Roller Cone	6.000	Steerable	6549.0	6767.0	6592.0	6811.0	26/Sep/2012 03:45	27/Sep/2012 15:30	24.5
5	5	5	6.125	Roller Cone	6.000	Steerable	6767.0	7344.0	6811.0	7407.0	27/Sep/2012 17:09	09/30/12 21:20	47.4
6	6	6	6.125	Roller Cone	6.000	Steerable	7344.0	7450.0	7407.0	7476.0	01/Oct/2012 01:30	06/Oct/2012 14:00	8.6

Crew	Name	Arrive	Depart	Name	Arrive	Depart	Name	Arrive	Depart

	Wellsite	Wellsite		Wellsite	Wellsite		Wellsite	Wellsite
Sairav Parab	14/Sep/2012	07/Oct/2012	David Luttrell	14/Sep/2012	22/Sep/2012	Wes Thornhill	22/Sep/2012	30/Sep/2012
Jose Rodriguez	15/Sep/2012	06/Oct/2012	Andrew Sims	15/Sep/2012	05/Oct/2012	Gary Igleheart	30/Sep/2012	07/Oct/2012

Witness

Name	LWD Run Number
Ryan Logsdon	1, 2, 3, 4, 5, 6

Mud Properties Record

Date / Time	LWD Run No.	Measured Depth (ft.)	Mud Type	Density (ppg)	Viscosity (cp)	pH	Fluid Loss (cc)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
18/Sep/2012 07:30	1	4077.0	Water Based	9.0	18	9.5	4.2	0/95.4	Flow Line	6000	N/A
21/Sep/2012 07:30	2	4477.0	Water Based	9.0	18	9.5	4.2	0/99	Flow Line	6000	N/A
23/Sep/2012 07:30	3	5815.0	Water Based	8.4	18	9.5	6.4	0/99	Flow Line	6000	N/A
27/Sep/2012 07:30	4	6806.0	Water Based	9.0	26	9.5	2.5	0/95.2	Flow Line	400	N/A
28/Sep/2012 07:30	5	7050.0	Water Based	8.8	25	9.5	6.4	0/96.5	Flow Line	400	N/A
01/Oct/2012 17:30	6	7476.0	Water Based	8.9	27	9.0	6.4	0/95.7	Flow Line	400	N/A

Mud Resistivity Record

				Surface				Downhole		
Date / Time	LWD Run No.	Measured Depth (ft.)	Surface Temp (deg F)	Rm (ohm.m)	Rmf (ohm.m)	Rmc (ohm.m)	BHCT (deg F)	Rm @ BHCT (ohm.m)	Rmf @ BHCT (ohm.m)	Rmc @ BHCT (ohm.m)
21/Sep/2012 07:00	2	4077.0	78	1.50	1.50	1.50	128	0.93	0.93	0.93
23/Sep/2012 12:01	3	5896.0	87	1.50	1.50	1.50	134	0.99	0.99	0.99
27/Sep/2012 12:01	4	6806.0	75	1.50	1.50	1.50	134	1.11	1.11	1.11
28/Sep/2012 23:00	5	7050.0	70	1.50	1.50	1.50	134	0.81	0.81	0.81
01/Oct/2012 01:45	6	7422.0	87	1.50	1.50	1.50	139	0.95	0.95	0.95

Mnemonics

Curve	Description	Units
GRAX	Average Gamma Ray Apparent, 0.5 ft average	API
INNX	Survey Inclination	deg
ROP	Rate of Penetration	ft / hr
GRTVDX	Gamma Ray True Vertical Depth	ft
GRAUX	Gamma Ray Apparent – Up Quadrant	API
GRADX	Gamma Ray Apparent – Down Quadrant	API
RPCHX	Compensated and Corrected Resistivity, 2 Mhz, Long Space, Phase Difference	ohm.m
RACHX	Compensated and Corrected Resistivity, 2 Mhz, Long Space, Attenuation	ohm.m

Equipment and Service Data

LWD Run	Tool	Serial Number	Measurement	Bit Offset	Max O.D.	Min I.D.

No.				(ft)	(in.)	(in.)
1	SRIG	10433831	Gamma	47.21	6.750	2.569
1	DIR	12168817	Directional	42.21	6.750	2.569
2	DIR	11592386	Directional	47.14	4.750	2.569
2	GAM	11592386	Gamma	42.46	4.750	1.750
2	MPR	11592386	Multiple Propagation Resistivity	33.97	4.750	1.750
2	APR	11592383	Azimuthal Propagation Resistivity	33.97	4.750	1.750
2	AP	11592386	Annular Pressure	38.40	4.750	1.750
3	DIR	11592386	Directional	47.14	4.750	1.750
3	GAM	11592386	Gamma	42.46	4.750	1.750
3	MPR	11592386	Multiple Propagation Resistivity	33.97	4.750	1.750
3	APR	11592386	Azimuthal Propagation Resistivity	33.97	4.750	1.750
3	AP	11592386	Annular Pressure	38.40	4.750	1.750
4	DIR	11592386	Directional	45.23	4.750	1.750
4	GAM	11592386	Gamma	40.55	4.750	1.750
4	MPR	11592386	Multiple Propagation Resistivity	32.06	4.750	1.750
4	APR	11592386	Azimuthal Propagation Resistivity	32.06	4.750	1.750
4	AP	11592386	Annular Pressure	36.49	4.750	1.750
5	DIR	11592386	Directional	40.91	4.750	1.750
5	GAM	11592386	Gamma	36.23	4.750	1.750
5	MPR	11592386	Multiple Propagation Resistivity	27.74	4.750	1.750
5	APR	11592386	Azimuthal Propagation Resistivity	27.74	4.750	1.750
5	AP	11592386	Annular Pressure	32.17	4.750	1.750
6	DIR	12517557	Directional	38.43	4.750	1.750
6	GAM	12517557	Gamma	25.27	4.750	1.750
6	MPR	12517557	Multiple Propagation Resistivity	32.46	4.750	1.750
6	APR	12517557	Azimuthal Propagation Resistivity	27.74	4.750	1.750
6	AP	12517557	Annular Pressure	27.90	4.750	1.750

Service and Tool Mnemonics

Mnemonic	Name	Description
DIR	Directional	Wellbore directional survey
SRIG	Inclination and Gamma	Probe based gamma ray and inclination module
GAM	Gamma	Collar based Azimuthal Gamma Ray Module
MPR	Resistivity	Collar based Multiple Propagation Resistivity Module
AP	Annular Pressure	Annular Pressure Sensor
APR	Azimuthal Restivity	Azimuthal Propagation Resistivity Module

Comments

1) Baker Hughes Inteq run 1 utilized 6 3/4 NaviGamma Service (Directional and Gamma Ray) behind an 8 3/4 inch bit and steerable assembly from 3353 to 4475 feet MD (3353 to 3999 feet TVD).

2) Baker Hughes Inteq runs 2 through x utilized 4 3/4 Multiple Propagation Resistivity Service (Azitrak) behind a 6 1/8 inch bit and steerable assembly from 4476 to 7476 feet MD (3999 to 3997 feet TVD).

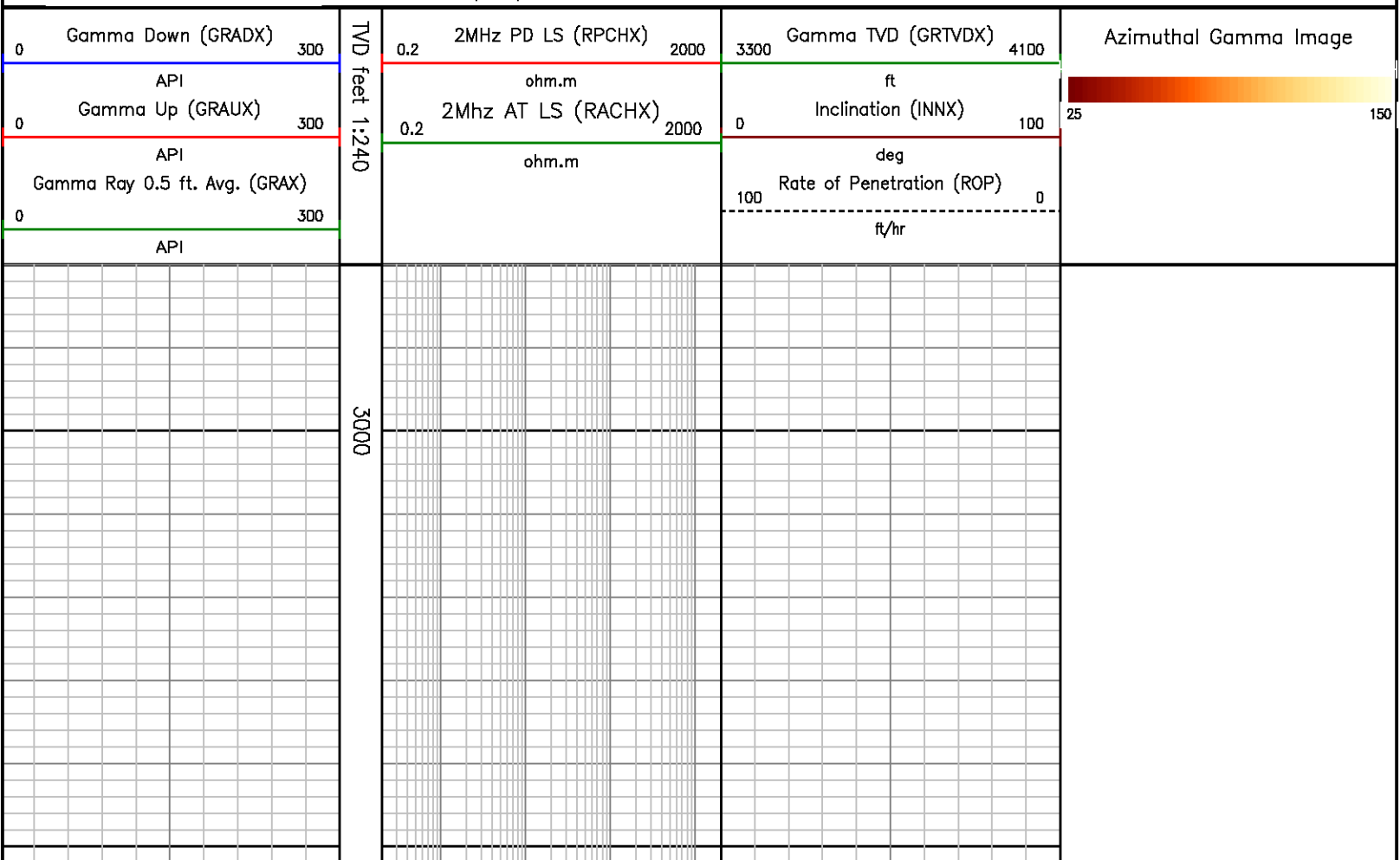
3) Depth measurements were obtained from a depth control system not supplied by Baker Hughes INTEQ. Due to the lack of control by Baker Hughes INTEQ logging engineers, depth calibrations and measurements could not be independently verified and the unverified depths as supplied to INTEQ are being used to present logging data.

Remarks

Number	Measured Depth (ft)	Hole Section (in.)	LWD Run No.	Remark
1	3353	8.750	1	The interval from 3353 to 3401 feet MD (3353 to 3400 feet TVD) was logged due to Gamma Ray sensor to bit offset at the start of well logging.
2	4428	6.125	1	The interval from 4428 to 4476 feet MD (4001 to 3999 feet TVD) was logged upto 53 hours after being drilled due to a trip out of hole to run the casing and pickup lateral assembly.
3	5473	6.125	2	The interval from 5473 to 5514 feet MD (4009 to 4011 feet TVD) was logged up to 9 hours after being drilled due to a trip out of hole to change the bit.
4	6547	6.125	3	The interval from 6547 to 6592 feet MD (4022 to 4023 feet TVD) was logged up to 10 hours after being drilled due to a trip out of hole to change the bit.
5	6767	6.125	4	The interval from 6767 to 6811 feet MD (4007 to 4002 feet TVD) was logged up to 13 hours after being drilled due to a trip out of hole to pick up an Agitator and change the bit.
6	7344	6.125	5	The interval from 7344 to 7407 feet MD (3944 to 3995 feet TVD) was logged up to 42.3 hours after being drilled due to a trip out of hole to pick up an Agitator and change the bit.
7	7476	6.125	6	The interval from 7452 to 7476 feet MD (3997 to 3997 feet TVD) was not logged due to Gamma Ray sensor to bit offset at well TD.

BAKER HUGHES

Company : Midcon Energy
Well : Holland 1-12H
Interval : 2980.00 - 4110.00 feet
Created : 06/Oct/2012 2:19:12 PM

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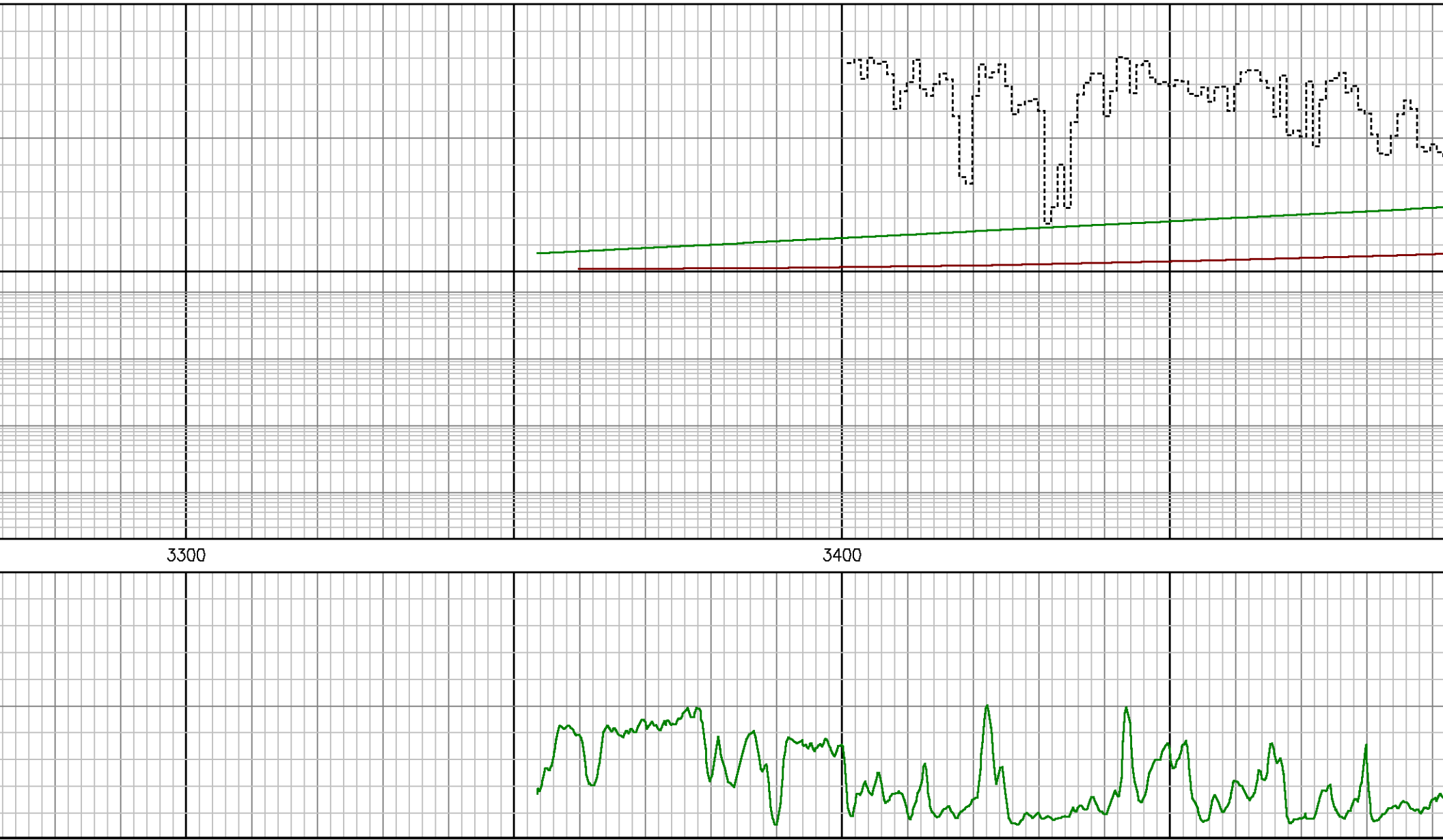
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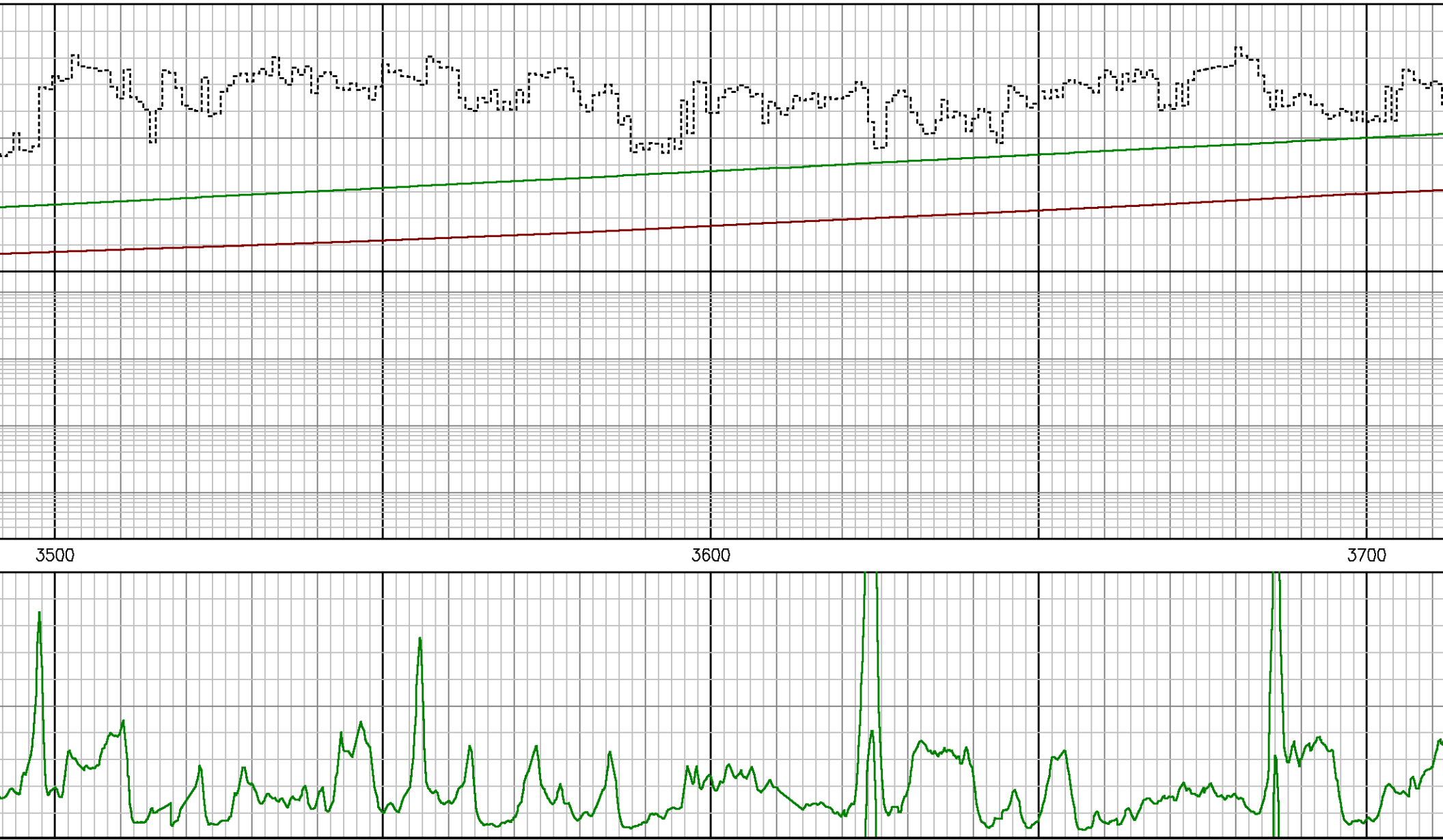
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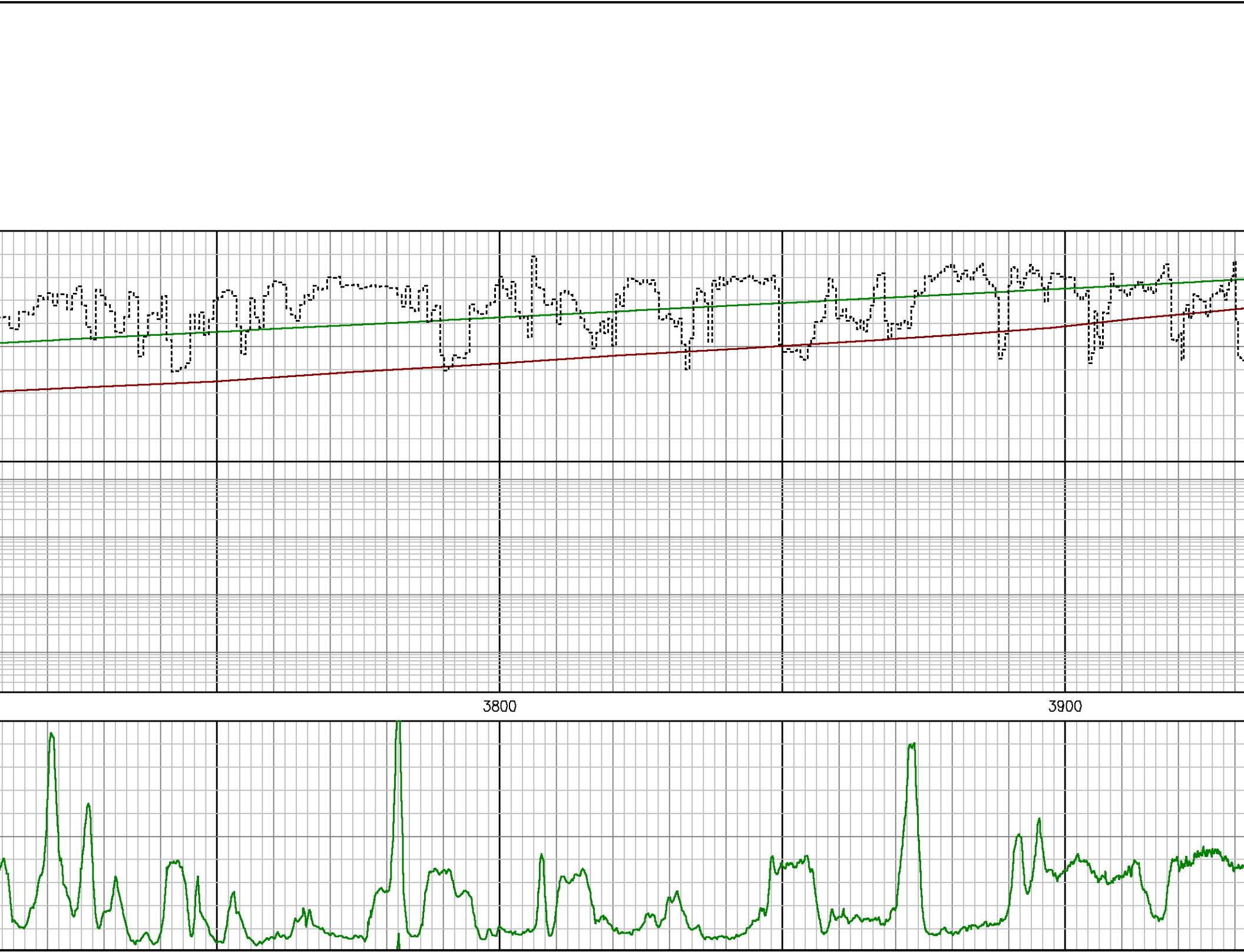
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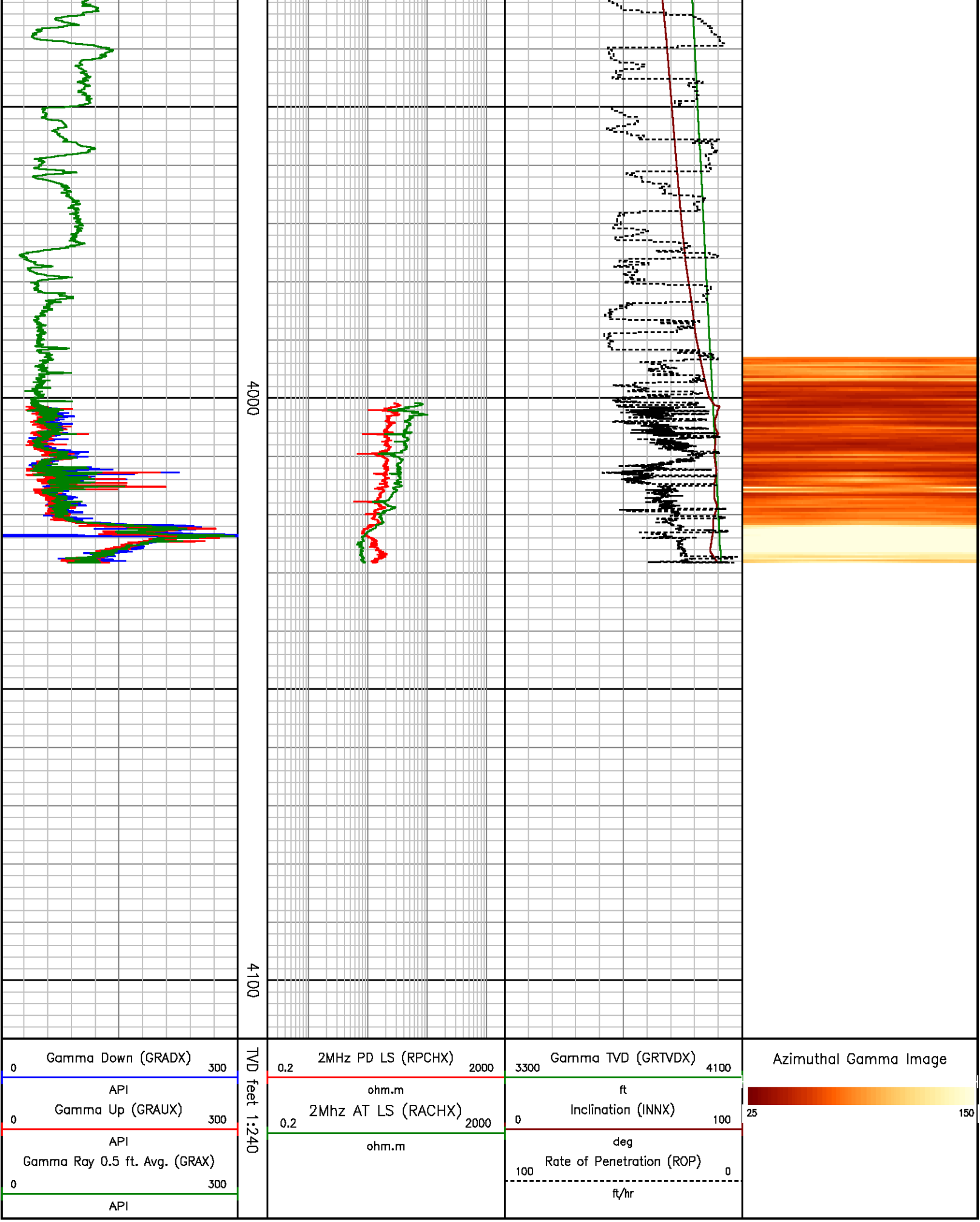

4000
4100
Gamma Down (GRADX)
0
300
API
Gamma Up (GRAUX)
0
300
API
Gamma Ray 0.5 ft. Avg. (GRAX)
0
300
API
TVD feet 1:240
2MHz PD LS (RPCHX)
0.2
2000
ohm.m
2Mhz AT LS (RACHX)
0.2
2000
ohm.m
Gamma TVD (GRTVDX)
3300
4100
ft
Inclination (INNX)
0
100
deg
Rate of Penetration (ROP)
100
0
ft/hr
Azimuthal Gamma Image
25
150

ADVANTAGE Final Survey Listing

Operator	: Midcon Energy	Field	: LKC	API No	: 15196228110100
Well	: Holland 1-12H	Rig	: Trinidad 215	Job	: 4945920
Wellbore	: Holland 1-12H Orig Hole				

Well Origin

Latitude	39.02 deg	Longitude	-99.72 deg
North Reference	Grid	Drill Depth Zero	Kelly Bushing
Vertical Datum is	Ground Level	Vertical Datum to DDZ	10.00 ft
Vertical Section North	0.00 ft	Vertical Section East	0.00 ft
Vertical Section Azimuth	349.98 deg	Vertical Section Depth	0.00ft
Grid Convergence	1.09 deg	Magnetic Declination	5.79 deg
Total Correction	6.88 deg	TVD Calculation Method	Minimal Curvature
D-Raw Calculation	Magcorr1	Local Magnetic Field	52674 nT
Local Magnetic Dip Angle	66.64 deg	Local Gravity Field	0.9992 gravity

Tie	MD ft	Incl deg	Azim deg	North ft	East ft	TVD ft	VS ft	Incr VS ft	Crs Len ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
	623.00	0.22	183.07	-1.18	-0.06	623.00	-1.15	1.18	623.00	0.03	0.03	-28.40
	1194.00	0.00	6.86	-2.27	-0.12	1194.00	-2.21	2.27	571.00	0.04	-0.04	-30.86
	1855.00	0.62	286.60	-1.42	-2.98	1854.99	-0.88	5.25	661.00	0.08	0.08	-12.14
	2325.00	0.09	170.13	-1.16	-4.94	2324.98	-0.28	7.23	470.00	0.12	-0.09	-24.78
	2748.00	0.35	99.63	-1.70	-3.61	2747.98	-1.04	8.67	423.00	0.08	0.06	-16.67
	3360.00	1.08	239.99	-4.89	-6.75	3359.95	-3.64	13.15	612.00	0.22	0.12	22.93
	3392.00	1.43	263.20	-5.09	-7.41	3391.94	-3.72	13.84	32.00	1.92	1.11	72.54
	3423.00	2.35	307.89	-4.74	-8.29	3422.92	-3.23	14.79	31.00	5.39	2.96	144.16
	3455.00	4.05	330.30	-3.36	-9.37	3454.87	-1.68	16.54	32.00	6.49	5.30	70.04
	3485.00	6.18	341.78	-0.91	-10.40	3484.75	0.92	19.21	30.00	7.85	7.11	38.25
	3517.00	8.70	343.99	3.06	-11.61	3516.48	5.03	23.35	32.00	7.93	7.88	6.92
	3549.00	11.49	344.78	8.46	-13.11	3547.98	10.62	28.96	32.00	8.72	8.71	2.44
	3580.00	14.62	345.81	15.24	-14.88	3578.18	17.59	35.96	31.00	10.11	10.08	3.32
	3611.00	18.09	347.18	23.72	-16.91	3607.92	26.30	44.69	31.00	11.26	11.20	4.43
	3643.00	21.51	349.16	34.33	-19.12	3638.03	37.13	55.52	32.00	10.90	10.70	6.19
	3675.00	25.04	349.86	46.76	-21.41	3667.42	49.78	68.16	32.00	11.06	11.03	2.20
	3706.00	28.65	350.61	60.56	-23.78	3695.07	63.77	82.16	31.00	11.71	11.66	2.40
	3738.00	31.83	352.12	76.49	-26.19	3722.71	79.88	98.27	32.00	10.20	9.92	4.72
	3770.00	34.90	352.15	93.92	-28.60	3749.44	97.46	115.87	32.00	9.60	9.60	0.10
	3801.00	38.89	352.00	112.35	-31.17	3774.22	116.06	134.48	31.00	12.89	12.88	-0.46
	3833.00	42.49	352.22	133.01	-34.03	3798.48	136.91	155.34	32.00	11.26	11.25	0.68
	3864.00	46.10	351.93	154.45	-37.01	3820.67	158.54	176.98	31.00	11.64	11.62	-0.93
	3896.00	48.93	351.54	177.80	-40.41	3842.28	182.12	200.58	32.00	8.92	8.87	-1.23
	3926.00	51.90	351.31	200.66	-43.86	3861.39	205.23	223.70	30.00	9.92	9.90	-0.77
	3957.00	54.86	351.35	225.26	-47.61	3879.88	230.10	248.58	31.00	9.54	9.54	0.12
	3989.00	58.12	351.32	251.63	-51.63	3897.54	256.77	275.25	32.00	10.17	10.17	-0.09
	4018.00	62.09	351.02	276.47	-55.49	3912.00	281.90	300.39	29.00	13.73	13.70	-1.02
	4050.00	65.35	351.03	304.80	-59.96	3926.16	310.59	329.08	32.00	10.20	10.20	0.03
	4081.00	68.12	351.38	332.95	-64.31	3938.40	339.06	357.55	31.00	9.00	8.94	1.12
	4112.00	70.29	351.10	361.59	-68.73	3949.41	368.03	386.53	31.00	7.04	6.99	-0.90
	4143.00	72.33	350.51	390.57	-73.42	3959.34	397.39	415.90	31.00	6.82	6.58	-1.89
	4175.00	74.33	350.05	420.79	-78.59	3968.52	428.04	446.55	32.00	6.39	6.23	-1.46
	4207.00	76.29	349.70	451.26	-84.04	3976.64	459.00	477.50	32.00	6.24	6.15	-1.08
	4238.00	78.76	349.80	481.04	-89.42	3983.33	489.26	507.77	31.00	7.97	7.96	0.33
	4270.00	80.50	350.19	512.04	-94.89	3989.09	520.74	539.24	32.00	5.58	5.45	1.20
	4301.00	82.43	350.00	542.24	-100.16	3993.69	551.39	569.90	31.00	6.25	6.22	-0.60
	4333.00	84.48	350.00	573.54	-105.68	3997.34	583.18	601.69	32.00	6.40	6.40	0.00
	4364.00	86.20	350.09	603.98	-111.02	3999.85	614.08	632.59	31.00	5.56	5.55	0.30
	4396.00	88.52	350.94	635.50	-116.29	4001.33	646.04	664.55	32.00	7.71	7.24	2.66
	4428.00	90.65	350.65	667.09	-121.40	4001.56	678.04	696.55	32.00	6.72	6.65	-0.93
	4483.00	92.16	350.90	721.36	-130.22	4000.21	733.01	751.53	55.00	2.78	2.74	0.47
	4528.00	91.42	350.33	815.04	-145.69	3997.25	827.96	846.48	95.00	0.98	-0.78	-0.60

Tie	MD ft	Incl deg	Azim deg	North ft	East ft	TVD ft	VS ft	Incr VS ft	Crs Len ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft
	4642.00	88.43	349.60	878.06	-156.84	3997.34	891.95	910.47	64.00	4.80	-4.67	-1.14
	4706.00	88.64	349.14	940.94	-168.64	3998.97	955.93	974.45	64.00	0.80	0.34	-0.73
	4769.00	88.95	349.09	1002.79	-180.53	4000.29	1018.91	1037.44	63.00	0.49	0.49	-0.07
	4832.00	88.92	348.43	1064.57	-192.81	4001.46	1081.88	1100.43	63.00	1.05	-0.05	-1.05
	4894.00	89.91	348.85	1125.35	-205.01	4002.09	1143.86	1162.42	62.00	1.73	1.59	0.67
	4958.00	89.57	348.91	1188.15	-217.35	4002.39	1207.85	1226.42	64.00	0.54	-0.53	0.09
	5021.00	89.54	348.61	1249.94	-229.63	4002.88	1270.83	1289.42	63.00	0.49	-0.05	-0.48
	5084.00	88.46	348.63	1311.69	-242.06	4003.98	1333.80	1352.41	63.00	1.71	-1.71	0.04
	5148.00	88.98	349.62	1374.53	-254.13	4005.41	1397.78	1416.39	64.00	1.74	0.82	1.54
	5211.00	89.85	351.32	1436.65	-264.56	4006.05	1460.77	1479.39	63.00	3.03	1.37	2.70
	5275.00	90.00	351.50	1499.93	-274.12	4006.13	1524.75	1543.39	64.00	0.36	0.24	0.27
	5338.00	88.86	351.37	1562.23	-283.51	4006.76	1587.73	1606.38	63.00	1.82	-1.81	-0.21
	5402.00	88.80	351.01	1625.46	-293.32	4008.07	1651.70	1670.37	64.00	0.57	-0.10	-0.56
	5465.00	88.28	350.36	1687.60	-303.51	4009.68	1714.67	1733.35	63.00	1.32	-0.83	-1.03
	5526.00	88.71	350.09	1747.70	-313.87	4011.28	1775.65	1794.33	61.00	0.83	0.71	-0.44
	5589.00	89.14	350.15	1809.75	-324.67	4012.47	1838.64	1857.32	63.00	0.69	0.69	0.09
	5653.00	88.89	350.57	1872.84	-335.39	4013.57	1902.63	1921.31	64.00	0.77	-0.38	0.66
	5716.00	88.18	350.10	1934.92	-345.96	4015.18	1965.61	1984.28	63.00	1.36	-1.13	-0.76
	5779.00	88.15	349.51	1996.90	-357.11	4017.19	2028.57	2047.25	63.00	0.93	-0.05	-0.92
	5842.00	89.48	349.31	2058.81	-368.68	4018.50	2091.55	2110.24	63.00	2.13	2.11	-0.32
	5905.00	89.29	347.83	2120.56	-381.16	4019.17	2154.53	2173.23	63.00	2.36	-0.29	-2.34
	5968.00	87.91	349.48	2182.30	-393.55	4020.71	2217.49	2236.21	63.00	3.41	-2.20	2.61
	6031.00	87.66	350.16	2244.26	-404.68	4023.15	2280.44	2299.16	63.00	1.15	-0.39	1.08
	6094.00	86.58	350.38	2306.28	-415.31	4026.32	2343.38	2362.08	63.00	1.75	-1.71	0.36
	6158.00	89.85	351.83	2369.47	-425.20	4028.31	2407.31	2426.04	64.00	5.58	5.10	2.26
	6221.00	91.36	352.43	2431.87	-433.82	4027.65	2470.26	2489.03	63.00	2.58	2.40	0.96
	6284.00	91.91	351.33	2494.21	-442.72	4025.86	2533.20	2552.01	63.00	1.97	0.88	-1.76
	6347.00	92.00	350.62	2556.39	-452.59	4023.71	2596.15	2614.97	63.00	1.12	0.15	-1.12
	6411.00	89.26	349.32	2619.41	-463.74	4023.00	2660.14	2678.96	64.00	4.74	-4.28	-2.04
	6471.00	91.57	349.88	2678.41	-474.56	4022.57	2720.13	2738.95	60.00	3.96	3.85	0.94
	6535.00	89.23	349.62	2741.39	-485.95	4022.12	2784.12	2802.95	64.00	3.68	-3.66	-0.42
	6599.00	91.63	350.79	2804.45	-496.84	4021.64	2848.12	2866.94	64.00	4.17	3.75	1.83
	6661.00	95.46	351.98	2865.62	-506.11	4017.81	2909.97	2928.81	62.00	6.46	6.17	1.93
	6724.00	95.86	351.65	2927.67	-515.04	4011.60	2972.63	2991.50	63.00	0.83	0.64	-0.52
	6778.00	96.36	352.13	2980.83	-522.61	4005.85	3026.29	3045.19	54.00	1.28	0.93	0.88
	6841.00	94.78	351.55	3042.89	-531.51	3999.73	3088.96	3107.89	63.00	2.68	-2.52	-0.92
	6904.00	91.17	350.44	3105.02	-541.35	3996.46	3151.85	3170.80	63.00	5.99	-5.73	-1.77
	6967.00	89.82	349.89	3167.09	-552.11	3995.92	3214.85	3233.79	63.00	2.32	-2.15	-0.87
	7030.00	89.91	349.85	3229.11	-563.19	3996.08	3277.85	3296.79	63.00	0.16	0.15	-0.06
	7094.00	91.63	349.56	3292.07	-574.63	3995.22	3341.84	3360.79	64.00	2.73	2.69	-0.46
	7157.00	90.12	350.01	3354.06	-585.80	3994.25	3404.83	3423.78	63.00	2.50	-2.39	0.72
	7220.00	91.72	350.17	3416.11	-596.64	3993.23	3467.82	3486.77	63.00	2.55	2.54	0.25
	7283.00	88.98	349.32	3478.10	-607.86	3992.84	3530.81	3549.76	63.00	4.55	-4.35	-1.34
	7346.00	88.43	349.40	3540.00	-619.49	3994.27	3593.79	3612.74	63.00	0.89	-0.88	0.13
	7422.00	88.43	348.78	3614.60	-633.86	3996.35	3669.75	3688.71	76.00	0.82	-0.00	-0.82
	Projection to TD:											
	7476.00	88.43	348.78	3667.55	-644.36	3997.83	3723.72	3742.69	54.00	0.00	0.00	0.00

A C T U A L W E L L P A T H R E P O R T (CSV version)
Prepared by Baker Hughes
Software System: WellArchitect®3.0.0

REFERENCE WELLPATH IDENTIFICATION

Operator	MidCon Energy
Area	Kansas
Field	Trego County, Kansas (MidCon Operating) NAD 83 / Grid
Facility	Holland 1-12H Sec 12-12S-22W
Slot	Holland 1-12H SL 150 FSL, 1415 FWL
Well	Subject
Wellbore	Holland 1-12H AWB
Wellpath	AWP
Sidetrack	(none)

REPORT SETUP INFORMATION

Projection	NAD83 / Lambert Kansas SP, Northern Zone (1501), US feet
North Refe	Grid
Scale	0.999965
Convergen	1.09° West
Software S	WellArchitect®
User	Dehamard
Report Ger	10/3/2012 at 9:08:50 AM
DataBase/S	Oklahoma City/ev01.xml

WELLPATH	Local North [ft]	Local East [ft]	Grid East [ft]	Grid North [ft]	Latitude	Longitude
Slot Locatic	0	0	824007.9	253320.2	39°00'58.1	99°43'07.530"W
Facility Ref			824007.9	253320.2	39°00'58.1	99°43'07.530"W
Field Refer			771585.5	210682.5	38°53'46.4	99°54'00.250"W

WELLPATH DATUM

Calculation	Minimum curvature
Horizontal	Facility Center
Vertical Re	Trinidad 215 (KB)
MD Refere	Trinidad 215 (KB)
Field Vertic	Mean Sea Level
Trinidad 21	10.00ft
Trinidad 21	2337.20ft
Trinidad 21	1415 FWL) 10.00ft
Section Ori	0.00ft
Section Ori	0.00ft
Section Azi	349.98°

W E L L P A T H D A T A Wellbore: Holland 1-12H AWB Wellpath: AWP † = interpolated/extrapolated station

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North

	[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]
†	0	0	183.07	0	0	0	0	824007.9	253320.2
	10	0	183.07	10	0	0	0	824007.9	253320.2
	623	0.22	183.07	623	-1.15	-1.18	-0.06	824007.9	253319.1
	1189	0	6.88	1189	-2.2	-2.26	-0.12	824007.8	253318
	1855	0.52	286.6	1854.99	-0.85	-1.4	-3.02	824004.9	253318.8
	2325	0.09	170.13	2324.98	-0.26	-1.15	-5	824002.9	253319.1
	2748	0.35	99.633	2747.98	-1.03	-1.69	-3.67	824004.2	253318.5
	3360	1.08	239.99	3359.95	-3.63	-4.89	-6.82	824001.1	253315.3
	3392	1.43	263.2	3391.94	-3.71	-5.09	-7.48	824000.4	253315.1
	3423	2.35	307.89	3422.92	-3.22	-4.75	-8.36	823999.6	253315.5
	3455	4.05	330.3	3454.87	-1.67	-3.36	-9.44	823998.5	253316.9
	3485	6.18	341.78	3484.75	0.93	-0.91	-10.47	823997.4	253319.3
	3517	8.7	343.99	3516.48	5.04	3.06	-11.68	823996.2	253323.3
	3549	11.49	344.78	3547.98	10.62	8.46	-13.18	823994.7	253328.7
	3580	14.62	345.81	3578.18	17.6	15.23	-14.95	823993	253335.5
	3611	18.09	347.18	3607.92	26.31	23.72	-16.98	823990.9	253344
	3643	21.51	349.16	3638.02	37.15	34.33	-19.18	823988.7	253354.6
	3675	25.04	349.86	3667.42	49.79	46.76	-21.48	823986.4	253367
	3706	28.65	350.61	3695.07	63.78	60.56	-23.85	823984.1	253380.8
	3738	31.83	352.12	3722.71	79.89	76.49	-26.26	823981.7	253396.7
	3770	34.9	352.15	3749.44	97.48	93.92	-28.67	823979.2	253414.2
	3801	38.89	352	3774.22	116.07	112.35	-31.23	823976.7	253432.6
	3833	42.49	352.22	3798.48	136.92	133.01	-34.09	823973.8	253453.2
	3864	46.1	351.93	3820.67	158.55	154.45	-37.08	823970.8	253474.7
	3896	48.93	351.54	3842.28	182.13	177.8	-40.47	823967.4	253498
	3926	51.9	351.31	3861.39	205.24	200.66	-43.92	823964	253520.9
	3957	54.86	351.35	3879.88	230.11	225.25	-47.67	823960.2	253545.5
	3989	58.12	351.32	3897.55	256.78	251.63	-51.69	823956.2	253571.9
	4018	62.09	351.02	3912	281.91	276.47	-55.55	823952.4	253596.7
	4050	65.35	351.03	3926.16	310.6	304.8	-60.03	823947.9	253625
	4081	68.12	351.38	3938.41	339.07	332.94	-64.38	823943.5	253653.2
	4112	70.29	351.1	3949.41	368.04	361.59	-68.79	823939.1	253681.8
	4143	72.33	350.51	3959.34	397.4	390.57	-73.49	823934.4	253710.8
	4175	74.33	350.05	3968.52	428.05	420.78	-78.66	823929.3	253741
	4207	76.29	349.7	3976.64	459.01	451.25	-84.11	823923.8	253771.5
	4238	78.76	349.8	3983.33	489.27	481.04	-89.49	823918.4	253801.3
	4270	80.5	350.19	3989.09	520.75	512.04	-94.96	823913	253832.3
	4301	82.43	350	3993.69	551.4	542.23	-100.23	823907.7	253862.4
	4333	84.48	350	3997.34	583.19	573.54	-105.75	823902.2	253893.8
	4364	86.2	350.09	3999.86	614.09	603.97	-111.09	823896.8	253924.2
	4396	88.52	350.94	4001.33	646.05	635.5	-116.36	823891.6	253955.7
	4428	90.65	350.65	4001.57	678.04	667.08	-121.48	823886.4	253987.3
	4483	92.16	350.9	4000.22	733.02	721.35	-130.29	823877.6	254041.6
	4578	91.48	350.33	3997.2	827.97	815.03	-145.78	823862.1	254135.2
	4642	88.43	349.6	3997.25	891.96	878.05	-156.93	823851	254198.2
	4706	88.64	349.14	3998.89	955.93	940.93	-168.73	823839.2	254261.1

4769	88.95	349.09	4000.21	1018.91	1002.78	-180.62	823827.3	254323
4832	88.92	348.43	4001.38	1081.89	1064.56	-192.9	823815	254384.8
4894	89.91	348.85	4002.02	1143.87	1125.34	-205.11	823802.8	254445.5
4958	89.57	348.91	4002.31	1207.85	1188.14	-217.46	823790.5	254508.3
5021	89.54	348.61	4002.8	1270.84	1249.93	-229.74	823778.2	254570.1
5084	88.46	348.63	4003.9	1333.81	1311.68	-242.16	823765.8	254631.9
5148	88.98	349.62	4005.32	1397.78	1374.52	-254.24	823753.7	254694.7
5211	89.85	351.32	4005.97	1460.78	1436.64	-264.67	823743.3	254756.8
5275	90	351.5	4006.05	1524.76	1499.92	-274.22	823733.7	254820.1
5338	88.86	351.37	4006.68	1587.73	1562.21	-283.61	823724.3	254882.4
5402	88.8	351.01	4007.99	1651.7	1625.45	-293.41	823714.5	254945.6
5465	88.28	350.36	4009.59	1714.68	1687.59	-303.6	823704.3	255007.8
5526	88.71	350.09	4011.19	1775.66	1747.69	-313.95	823694	255067.9
5589	89.14	350.15	4012.37	1838.64	1809.74	-324.76	823683.2	255129.9
5653	88.89	350.57	4013.47	1902.63	1872.83	-335.48	823672.5	255193
5716	88.15	350.1	4015.1	1965.61	1934.91	-346.05	823661.9	255255.1
5779	88.15	349.51	4017.14	2028.58	1996.89	-357.2	823650.7	255317
5842	89.48	349.31	4018.44	2091.56	2058.8	-368.77	823639.2	255379
5905	89.29	347.83	4019.12	2154.54	2120.54	-381.25	823626.7	255440.7
5968	87.91	349.48	4020.65	2217.5	2182.29	-393.64	823614.3	255502.4
6031	87.66	350.16	4023.09	2280.45	2244.25	-404.77	823603.2	255564.4
6094	86.57	350.48	4026.26	2343.37	2306.28	-415.35	823592.6	255626.4
6158	89.95	351.83	4028.2	2407.31	2369.48	-425.18	823582.7	255689.6
6221	91.36	352.43	4027.48	2470.26	2431.88	-433.81	823574.1	255752
6284	91.91	351.33	4025.69	2533.2	2494.22	-442.7	823565.2	255814.4
6347	92	350.62	4023.54	2596.15	2556.4	-452.58	823555.4	255876.5
6411	89.26	349.32	4022.83	2660.14	2619.41	-463.72	823544.2	255939.6
6471	91.57	349.88	4022.4	2720.14	2678.42	-474.55	823533.4	255998.6
6535	89.23	349.62	4021.95	2784.13	2741.39	-485.94	823522	256061.5
6598	91.63	350.79	4021.48	2847.12	2803.47	-496.66	823511.3	256123.6
6661	95.46	351.98	4017.58	2909.97	2865.62	-506.08	823501.9	256185.8
6724	95.86	351.65	4011.37	2972.63	2927.68	-515	823492.9	256247.8
6778	96.36	352.13	4005.62	3026.29	2980.83	-522.58	823485.4	256301
6841	94.78	351.55	3999.51	3088.96	3042.9	-531.48	823476.5	256363
6904	91.17	350.44	3996.24	3151.85	3105.03	-541.32	823466.6	256425.1
6967	89.82	349.89	3995.69	3214.85	3167.1	-552.08	823455.9	256487.2
7030	89.91	349.85	3995.84	3277.85	3229.12	-563.17	823444.8	256549.2
7094	91.63	349.56	3994.98	3341.84	3292.08	-574.6	823433.3	256612.2
7157	90.12	350.01	3994.02	3404.83	3354.07	-585.77	823422.2	256674.2
7220	91.72	350.17	3993.01	3467.82	3416.12	-596.61	823411.3	256736.2
7346	88.43	349.4	3992.84	3593.8	3540.1	-618.95	823389	256860.2
7422	88.43	348.78	3994.93	3669.76	3614.7	-633.33	823374.6	256934.8

T A R G E T S

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Holland 1-12H PBHL	3985.2	4930.92	-871.3	823136.6	258251		39°01'46.6	99°43'19.7	point

WELLPATH COMPOSITION Ref Wellbore: Holland 1-12H AWB Ref Wellpath: AWP

Log Name/	Start MD [ft]	End MD [ft]	Pos Unc	Model
Inteq MWD	10	7422	NaviTrak	(Standard)

DLS Build Rate Turn Rate

[°/100ft]	[°/100ft]	[°/100ft]
0	0	0
0	0	0
0.04	0.04	0
0.04	-0.04	0
0.08	0.08	0
0.12	-0.09	-24.78
0.08	0.06	-16.67
0.22	0.12	22.93
1.91	1.09	72.53
5.39	2.97	144.16
6.5	5.31	70.03
7.84	7.1	38.27
7.92	7.87	6.91
8.73	8.72	2.47
10.12	10.1	3.32
11.26	11.19	4.42
10.89	10.69	6.19
11.06	11.03	2.19
11.7	11.65	2.42
10.22	9.94	4.72
9.59	9.59	0.09
12.87	12.87	-0.48
11.26	11.25	0.69
11.66	11.65	-0.94
8.89	8.84	-1.22
9.92	9.9	-0.77
9.55	9.55	0.13
10.19	10.19	-0.09
13.72	13.69	-1.03
10.19	10.19	0.03
9	8.94	1.13
7.05	7	-0.9
6.82	6.58	-1.9
6.4	6.25	-1.44
6.22	6.12	-1.09
7.97	7.97	0.32
5.57	5.44	1.22
6.26	6.23	-0.61
6.41	6.41	0
5.56	5.55	0.29
7.72	7.25	2.66
6.72	6.66	-0.91
2.78	2.75	0.45
0.93	-0.72	-0.6
4.9	-4.77	-1.14
0.79	0.33	-0.72

0.5	0.49	-0.08
1.05	-0.05	-1.05
1.73	1.6	0.68
0.54	-0.53	0.09
0.48	-0.05	-0.48
1.71	-1.71	0.03
1.75	0.81	1.55
3.03	1.38	2.7
0.37	0.23	0.28
1.82	-1.81	-0.21
0.57	-0.09	-0.56
1.32	-0.83	-1.03
0.83	0.7	-0.44
0.69	0.68	0.1
0.76	-0.39	0.66
1.39	-1.17	-0.75
0.94	0	-0.94
2.13	2.11	-0.32
2.37	-0.3	-2.35
3.41	-2.19	2.62
1.15	-0.4	1.08
1.8	-1.73	0.51
5.69	5.28	2.11
2.43	2.24	0.95
1.95	0.87	-1.75
1.14	0.14	-1.13
4.74	-4.28	-2.03
3.96	3.85	0.93
3.68	-3.66	-0.41
4.24	3.81	1.86
6.36	6.08	1.89
0.82	0.63	-0.52
1.28	0.93	0.89
2.67	-2.51	-0.92
5.99	-5.73	-1.76
2.31	-2.14	-0.87
0.16	0.14	-0.06
2.73	2.69	-0.45
2.5	-2.4	0.71
2.55	2.54	0.25
2.68	-2.61	-0.61
0.82	0	-0.82

Comment

Reservoir Navigation Final Report

Midcon Energy
Holland 1-12H

Reservoir Navigation Engineer
Chad Fortelney
Email: Chad.Fortelney@bakerhughes.com
Office 405-672-7881
Cell: 405-620-2734

BAKER HUGHES

MidCon Energy_Holland 1-12H
TSD

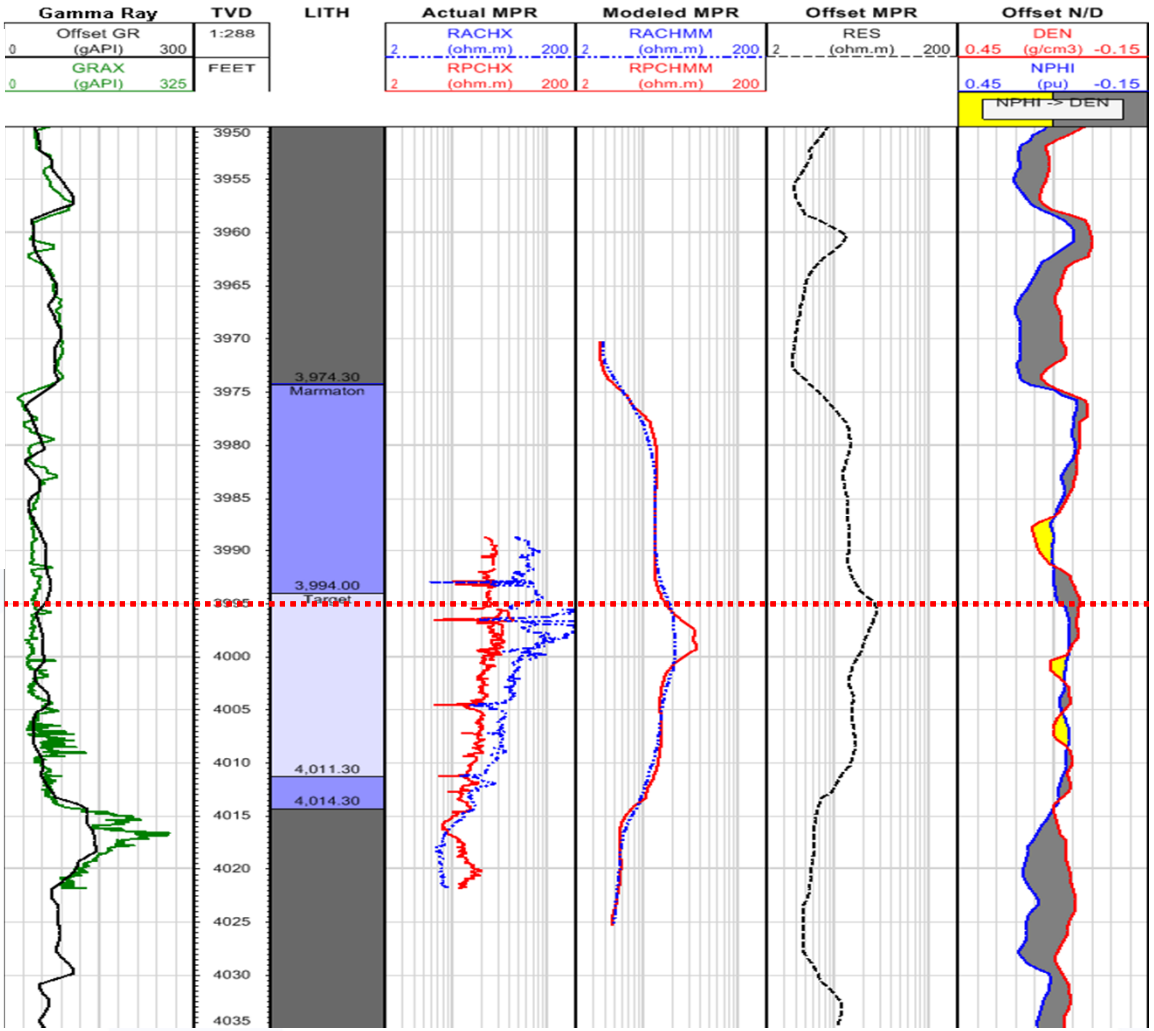
Customer: MidCon Energy

Field: Marmaton

Rig: Trinidad 215

Well: Holland 1-12H

County and Section: Trego County, Kansas
Section 12

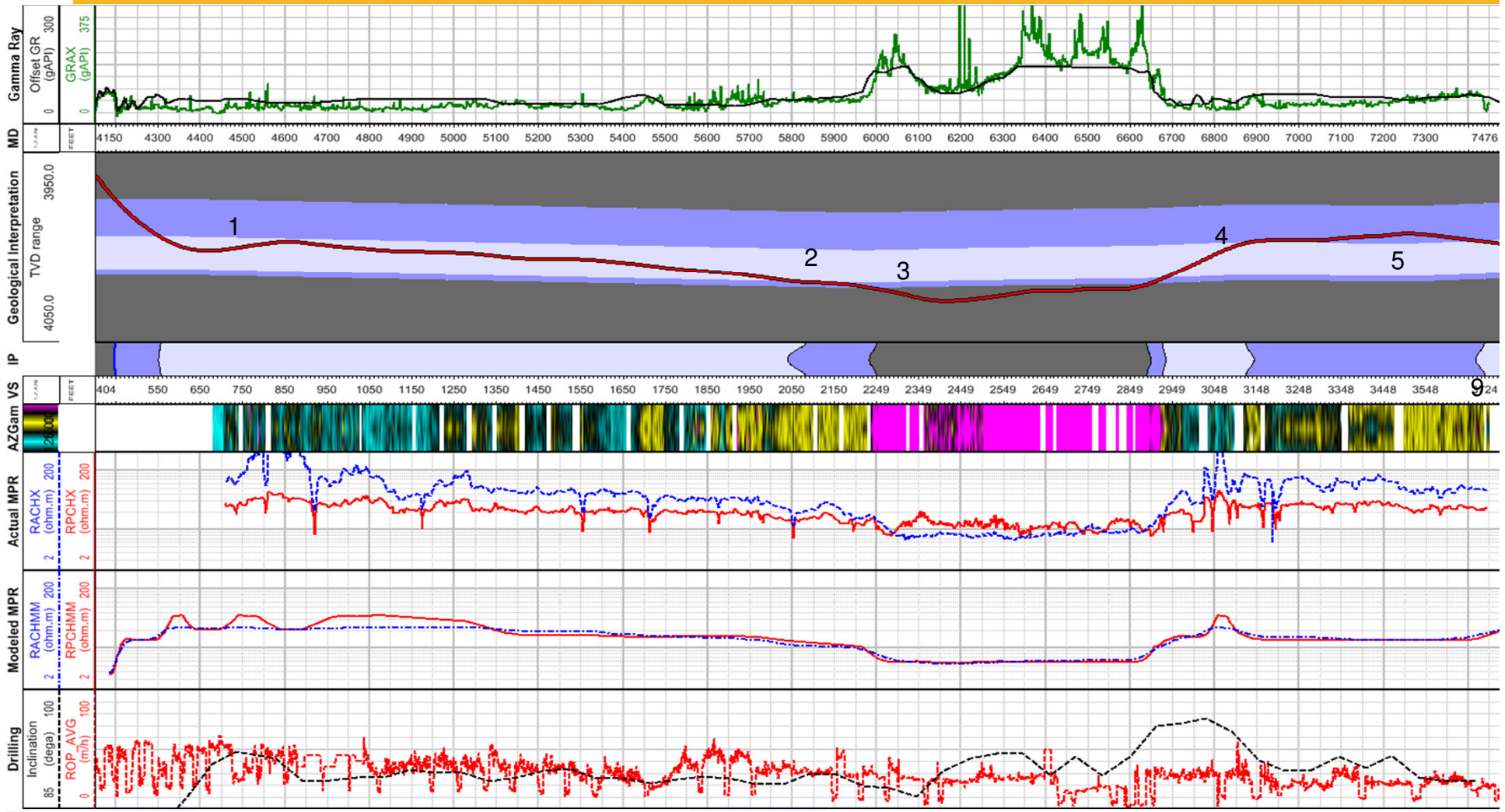


Final Stratigraphic Position

- ~ 1 ft. Below the Top of the Target Window

BAKER HUGHES

MidCon Energy_Holland 1-12H FINAL RNS INTERPRETATION



See page 4 for additional remarks

BAKER HUGHES

Percentage In Formation, Fault Identification, Steering Recommendations and Remarks

- **Percent in Formation**
- Footage Drilled in lateral: 3046 ft.
- Footage and Percentage of lateral drilled within the Target Window: 1626 ft. MD or ~53%
- Footage and Percentage of lateral drilled below the Target Zone: 228 ft. MD or ~8%
- Footage and Percentage of lateral drilled above the Target Zone: 541 ft. MD or ~18%
- Footage and Percentage of lateral drilled Below the Base of the Marmaton: 651 ft. MD or ~21%

- **Steering Recommendations and Remarks**
- At ~4018' MD it was decided to lower the LP TVD by 15' to 4,005.00' TVD. This would allow us to land ~10-11' Below the Top of the target Window.
- (1) At ~4483' MD a Target Line of 3,999.60' TVD @ 0' VS with an 89.5 deg INC was issued which would allow us to maintain in the lower half of the Target Window.
- (2) At ~ 5850' MD a Target Line of 4,019' TVD @ 0' VS with 90 deg INC was issued as this would allow us to stop our downward movement and begin drilling with bedding.
- At 5,988' MD we exited the Base of the Marmaton due to INC's of near 87-87.5 deg.
- (3) At ~ 6030' MD a Target Line of 4028.9' TVD @ 0' VS with 90.5 was issued. This new Target line would get us up near the Top of the Target Window and maintain with bedding till TD.
- From 6,000' MD – 6650' MD we maintained out the Base of the Marmaton as Sliding became difficult due to the shale. We entered back into the Marmaton at ~6650' MD with a wellbore INC of 95 deg. At this time we were moving up section ~8' TSD per 100' MD Drilled.
- (4) At ~ 6841' MD we were at a wellbore INC of 94.8 deg and approaching the Top of the target Window. I called and advised that we needed to have an INC of 89 deg as this would stop our movement up section and begin moving back down to the 4028.9' TVD @ 0' VS with 90.5 Target Line.
- (5) At ~ 7250' MD a Target Line of 3,998' TVD @ 0' VS with 90 deg INC was issued as this would allow us to slowly cut down trough the structure to well TD.
- At ~7476' MD the well was called due to a lost BHA down hole that could not be retrieved.

BAKER HUGHES

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

April 19, 2013

Ryan Logsdon
Mid-Con Energy Operating, Inc.
2431 E 61ST ST
STE 850
TULSA, OK 74136-1236

Re: ACO-1
API 15-195-22811-01-00
Holland 1-12H
SW/4 Sec.12-12S-22W
Trego County, Kansas

Dear Ryan Logsdon:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 9/12/2012 and the ACO-1 was received on April 18, 2013 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department