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DUAL INDUCTION LOG

Company PROSPECT OIL & GAS, INC.
Well ALVIN SOUKUP JR #1
Field HALL-GURNEY
County RUSSELL
State KANSAS

Location: API # : 15-167-24070-00-00
SW NE SW
1650' FSL & 1650' FWL
SEC 3 TWP 15S RGE 12W

Other Services
CNL/CDL
MEL

Permanent Datum GROUND LEVEL Elevation 1836'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1842'
D.F. N/A
G.L. 1836'

Date	12/6/2017			
Run Number	ONE			
Depth Driller	3360'			
Depth Logger	3360'			
Bottom Logged Interval	3359'			
Top Log Interval	350'			
Casing Driller	8.625" @ 390'			
Casing Logger	388'			
Bit Size	7.875"			
Type Fluid in Hole	CHEMICAL			
Salinity,ppm CL	8400			
Density / Viscosity	9.2	58		
pH / Fluid Loss	9.0	9.6		
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	0.50 @ 55			
Rmf @ Meas. Temp	0.38 @ 55			
Rmc @ Meas. Temp	0.68 @ 55			
Source of Rmf / Rmc	CHARTS			
Rm @ BHT	0.25 @ 110			
Operating Rig Time	3 HOURS			
Max Rec. Temp. F	110			
Equipment Number	91			
Location	HAYS			
Recorded By	D. SCHMIDT			
Witnessed By	BRAD HUTCHISON			

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

RUSSELL,
SOUTH TO THE T, 3 EAST, 1 SOUTH,
EAST INTO

Log Measured From: KELLY BUSHING 6 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneeres.com 785-625-3858

Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: D. SCHMIDT	Primary Witness: BRAD HUTCHISON
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Log Variables

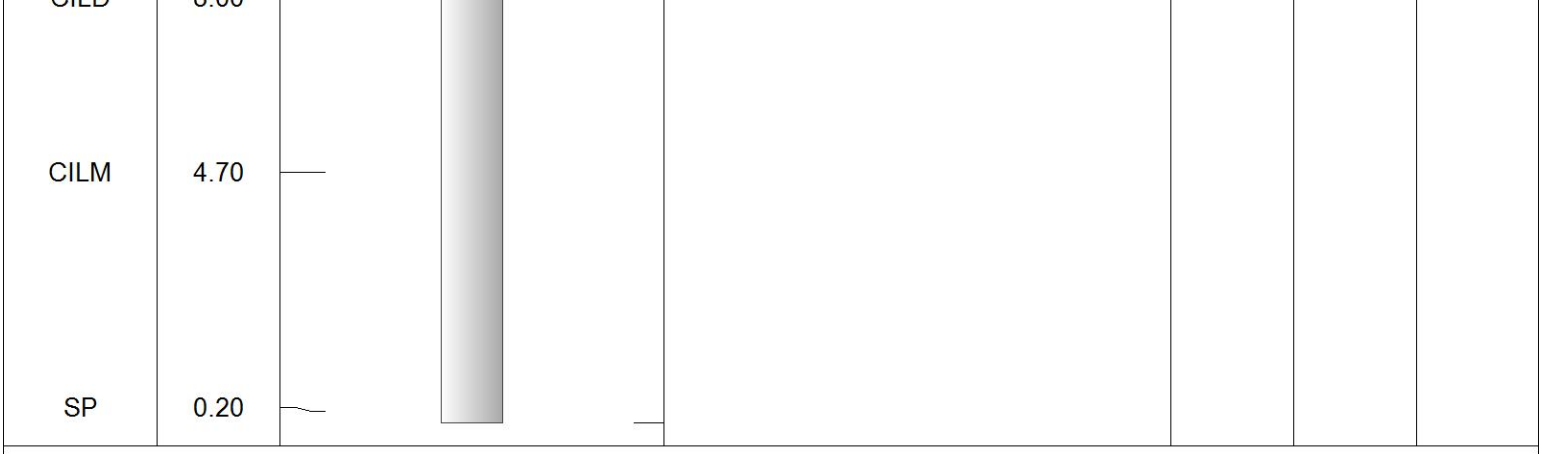
Database C:\ProgramData\Warrior\Data\prospect_alvin soukup jr 1.db
Dataset field/well/STACK/pass3.3/_vars_

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	193	0

SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	50	0	5.5	0	3360	110	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			GR-M&W (89)	3.00	3.50	50.00
GR	33.00					
CNLSC	29.90		CNT-M&W (207-MW)	5.50	3.50	100.00
CNSSC	29.15					
			CDL-M&W (90-1031)	8.50	4.00	250.00
LSD	20.85					
DCAL	20.83					
SSD	20.35					
RLL3F	15.80					
RLL3	15.80					
			DIL-M&W (PSI 91)	18.50	3.50	220.00
CILD	8.00					

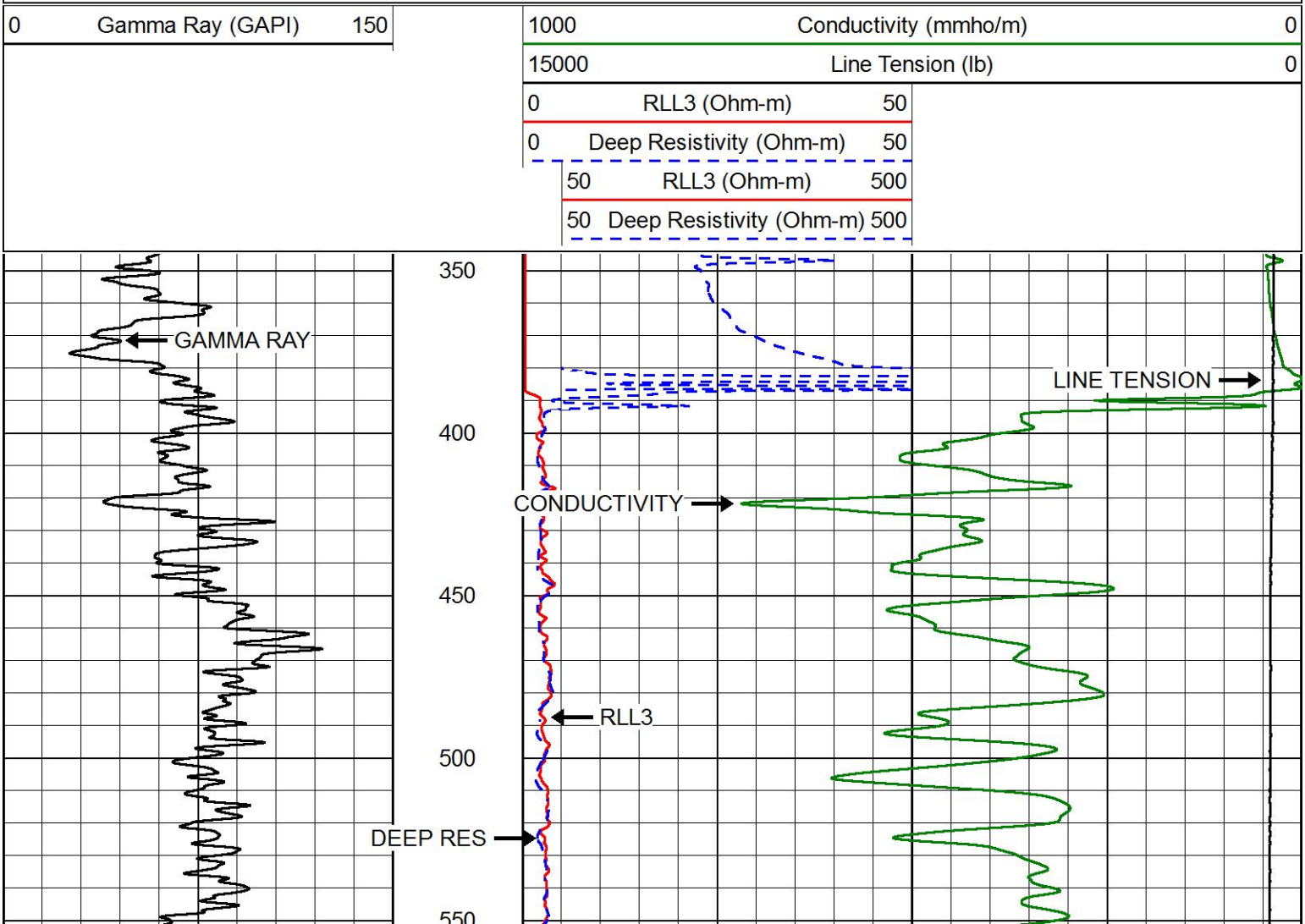


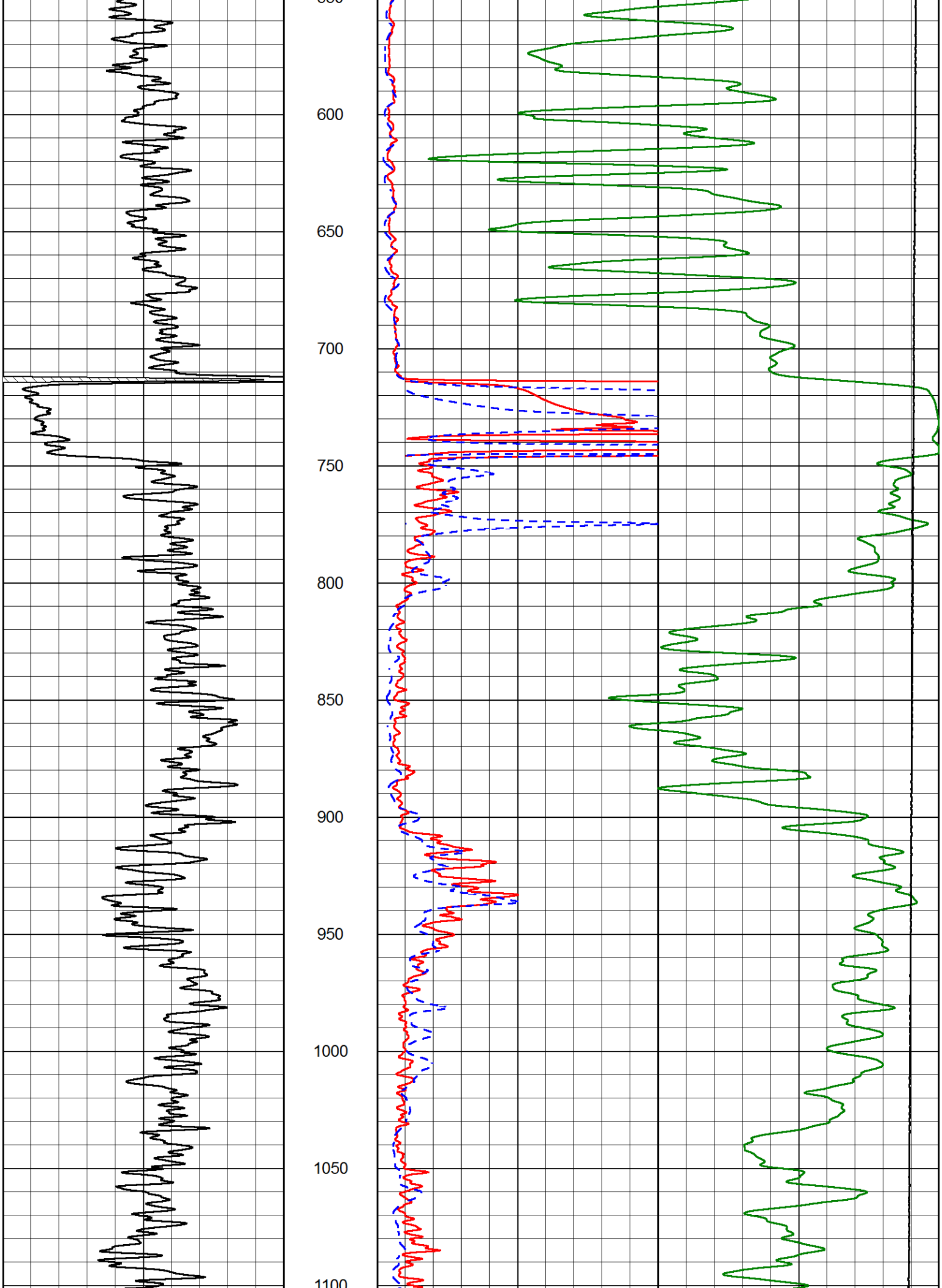
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Total length:	35.50 ft
Total weight:	620.00 lb
O.D.:	4.00 in

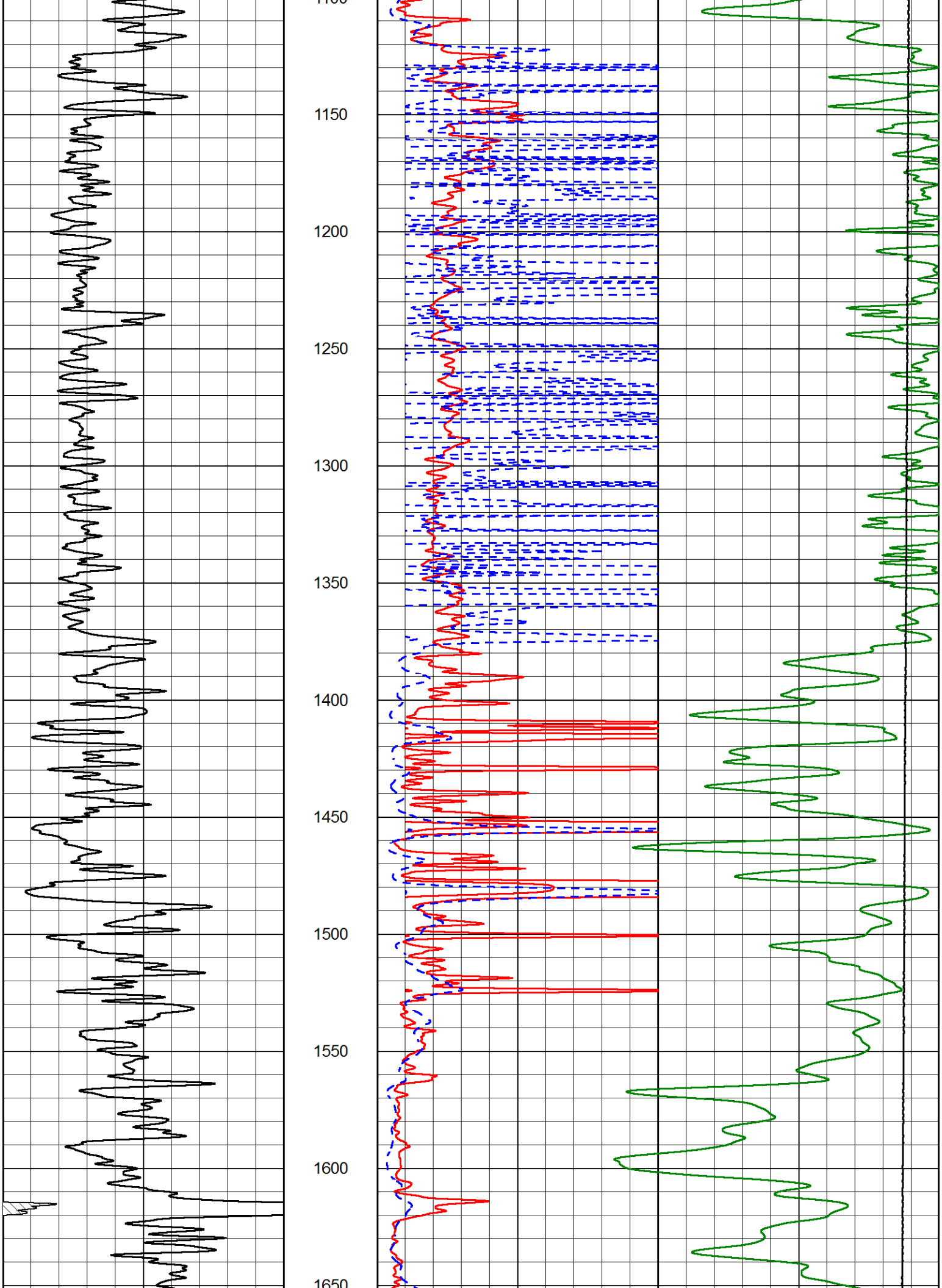
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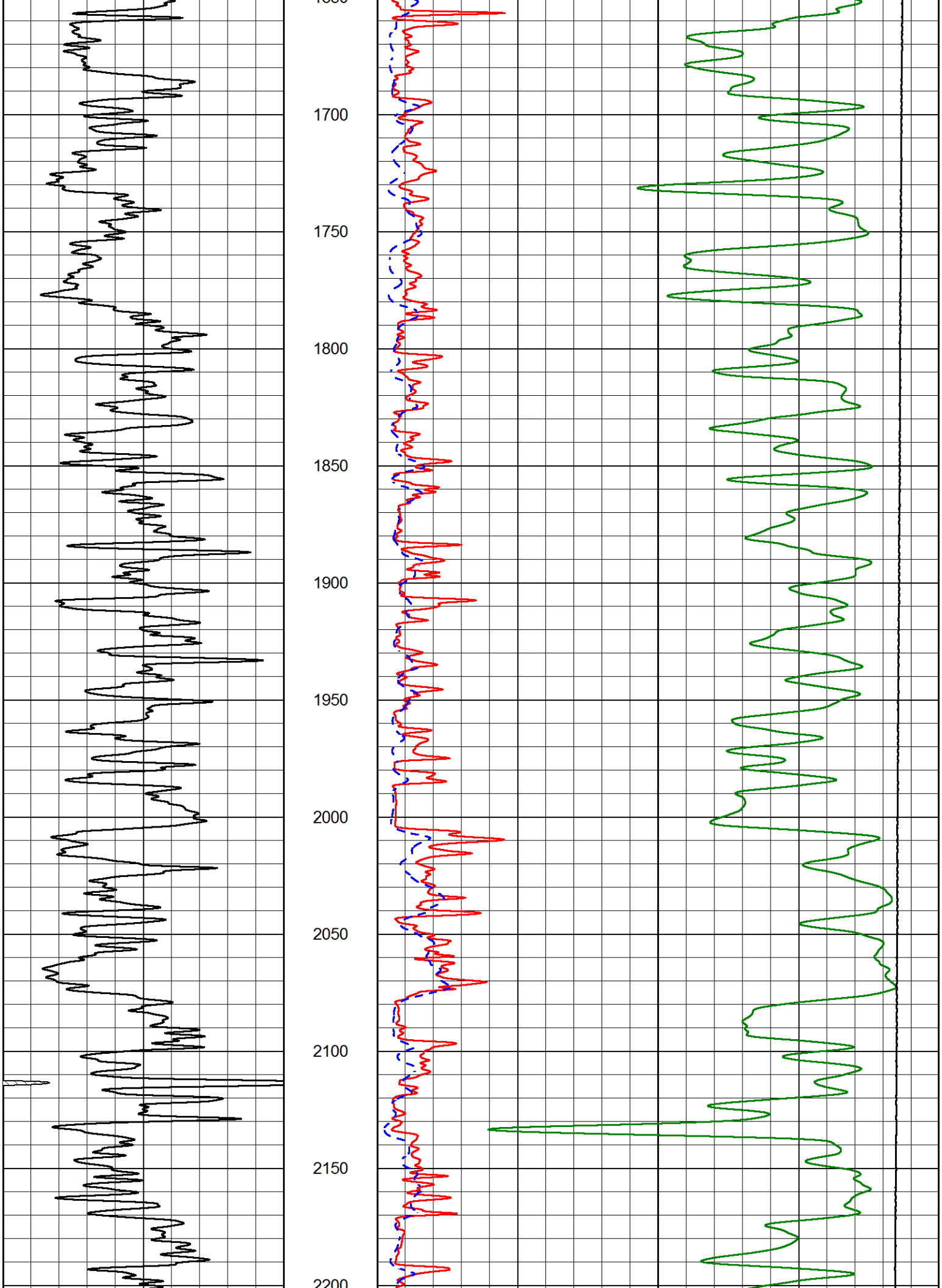
MAIN PASS

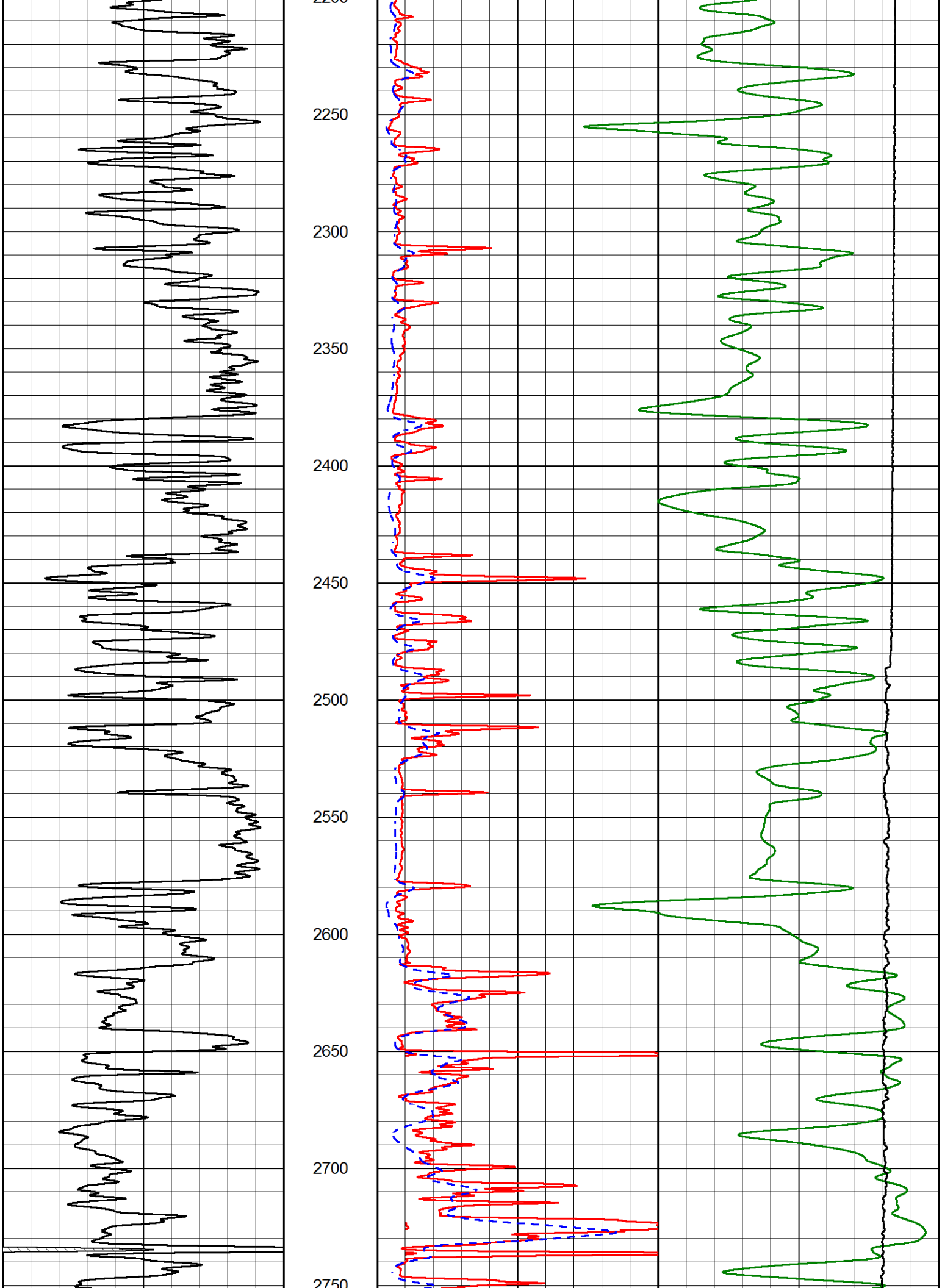
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Dataset Pathname	STACK/pass4.1
Presentation Format	dil2in
Dataset Creation	Wed Dec 06 01:55:07 2017
Charted by	Depth in Feet scaled 1:600

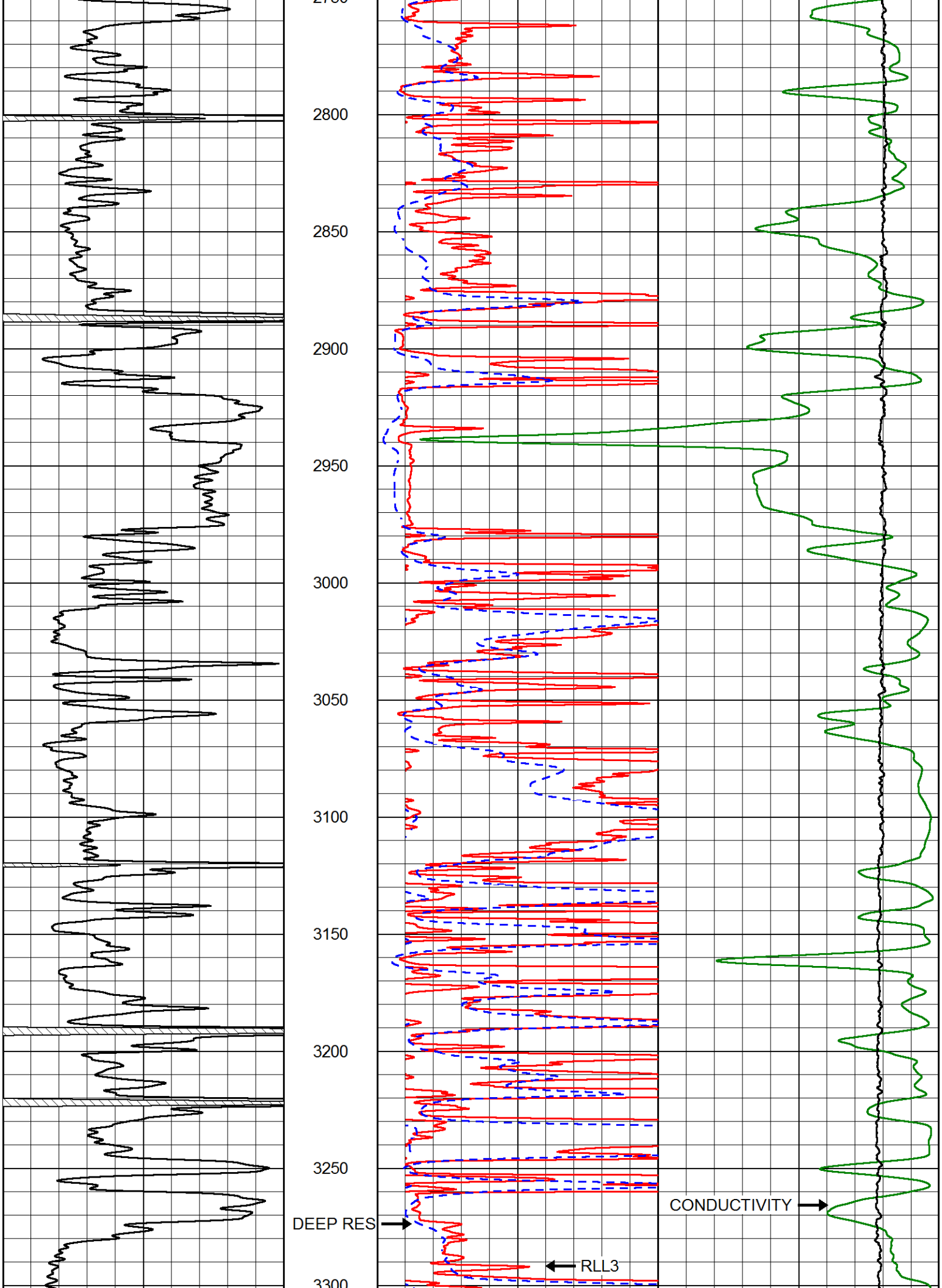


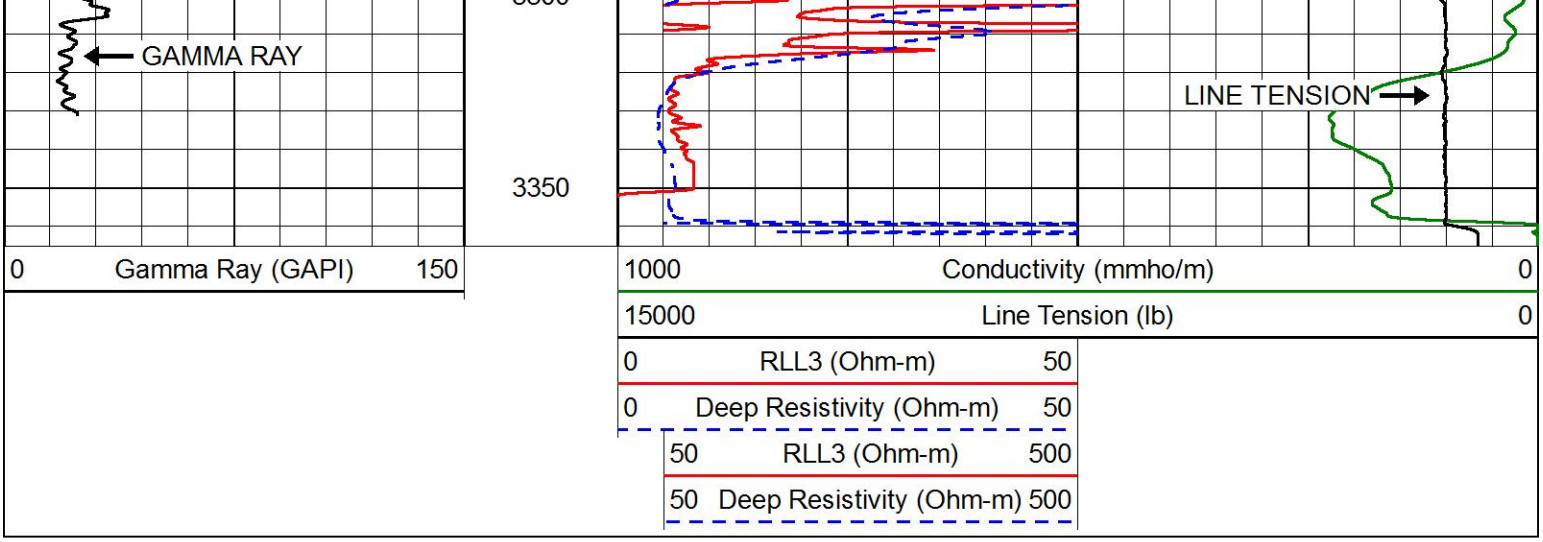

600
650
700
750
800
850
900
950
1000
1050
1100


1150
1200
1250
1300
1350
1400
1450
1500
1550
1600
1650


1700
1750
1800
1850
1900
1950
2000
2050
2100
2150
2200


2250
2300
2350
2400
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2500
2550
2600
2650
2700
2750

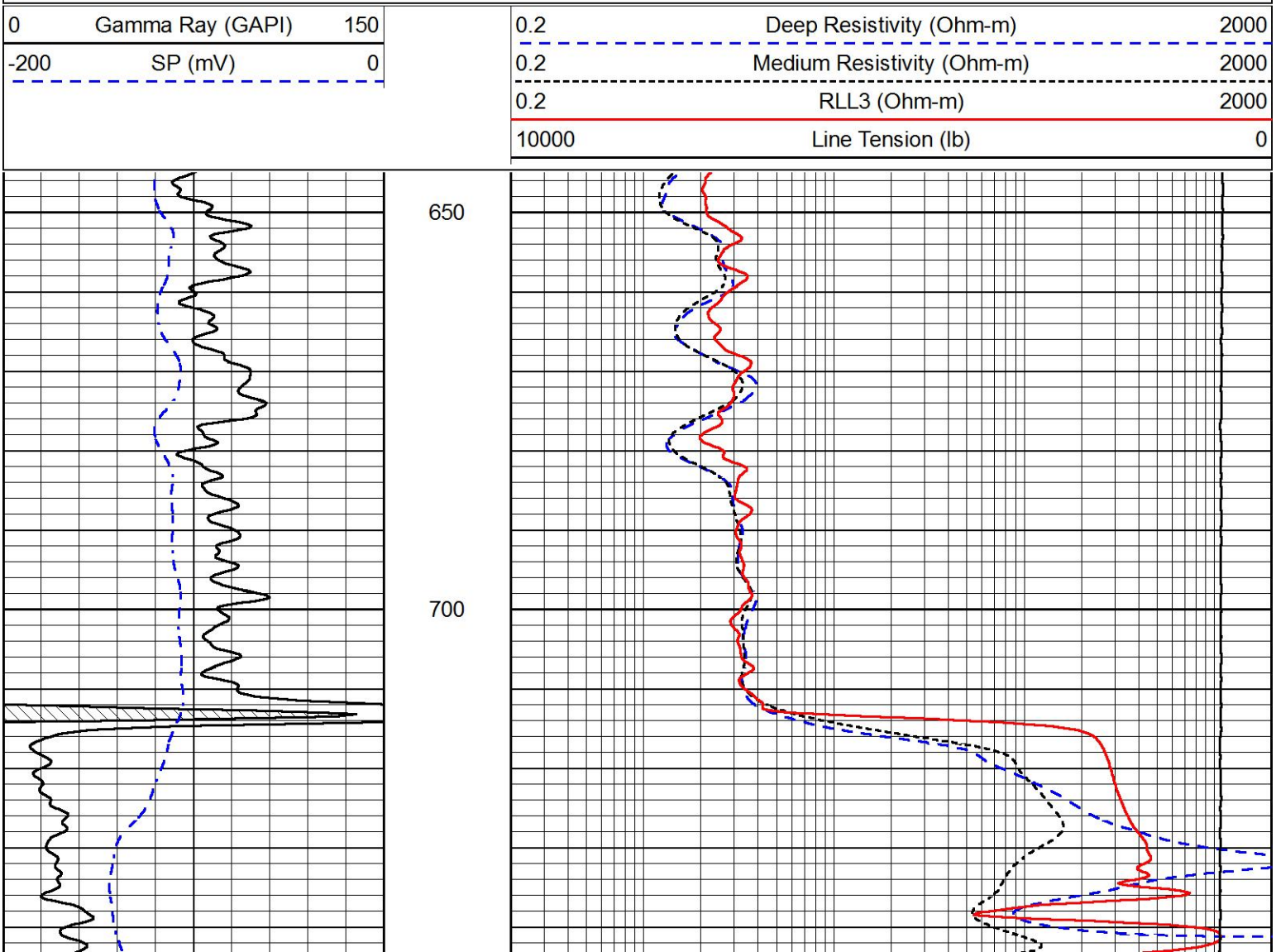

2800
2850
2900
2950
3000
3050
3100
3150
3200
3250
3300
DEEP RES
RLL3
CONDUCTIVITY

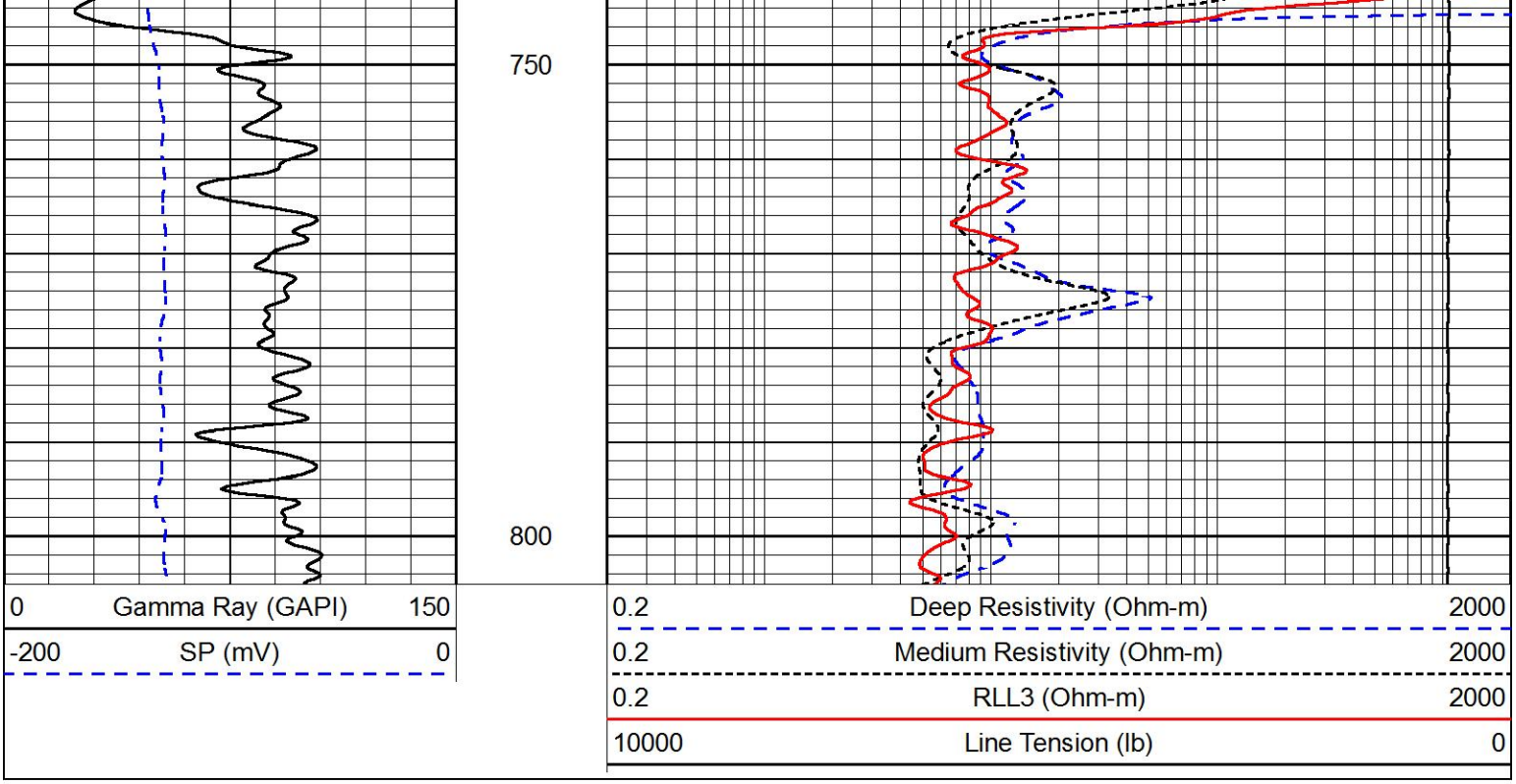


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MAIN PASS

Database File	prospect_alvin soukup jr 1.db
Dataset Pathname	STACK/pass4.1
Presentation Format	dil
Dataset Creation	Wed Dec 06 01:55:07 2017
Charted by	Depth in Feet scaled 1:240

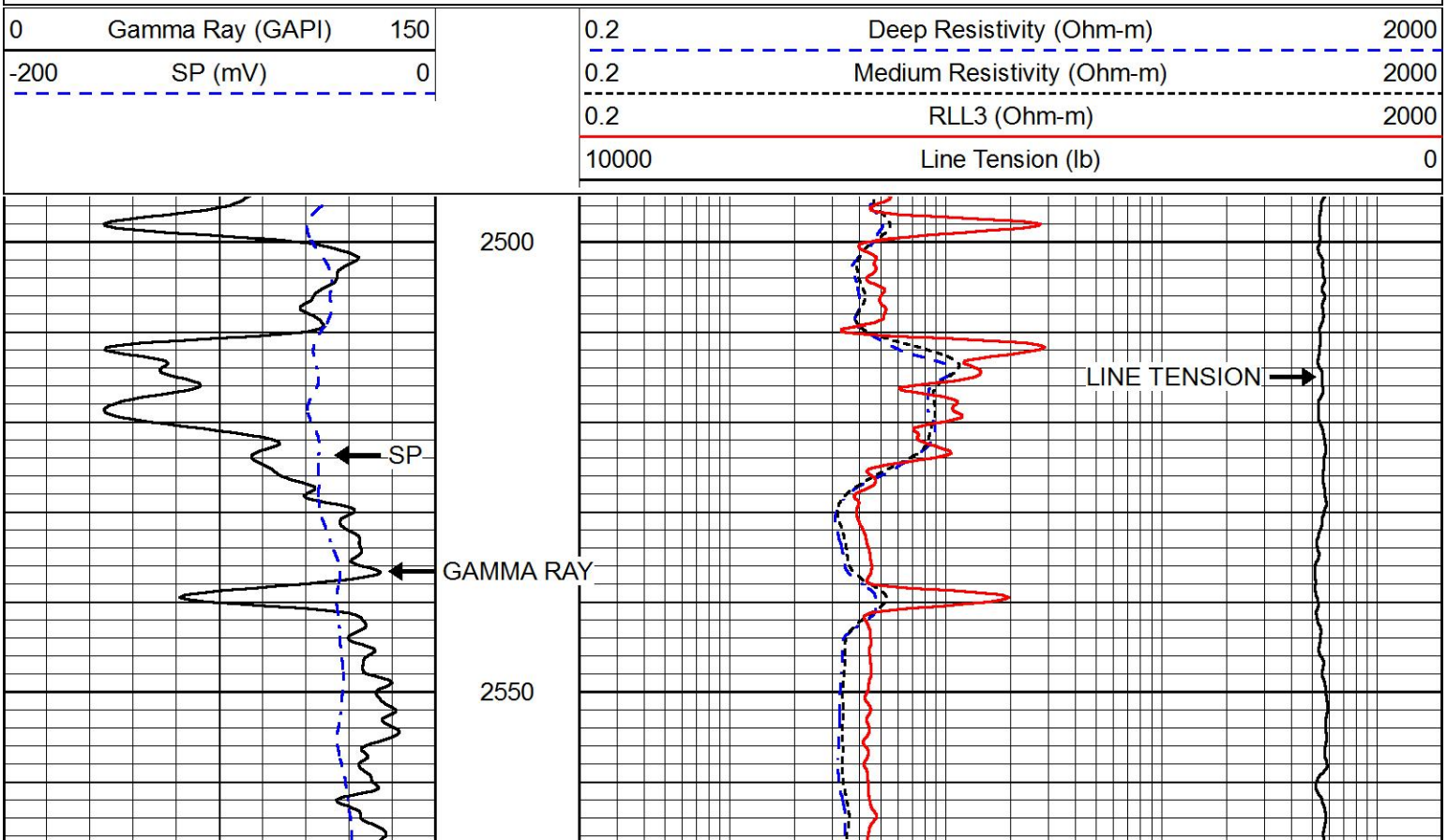


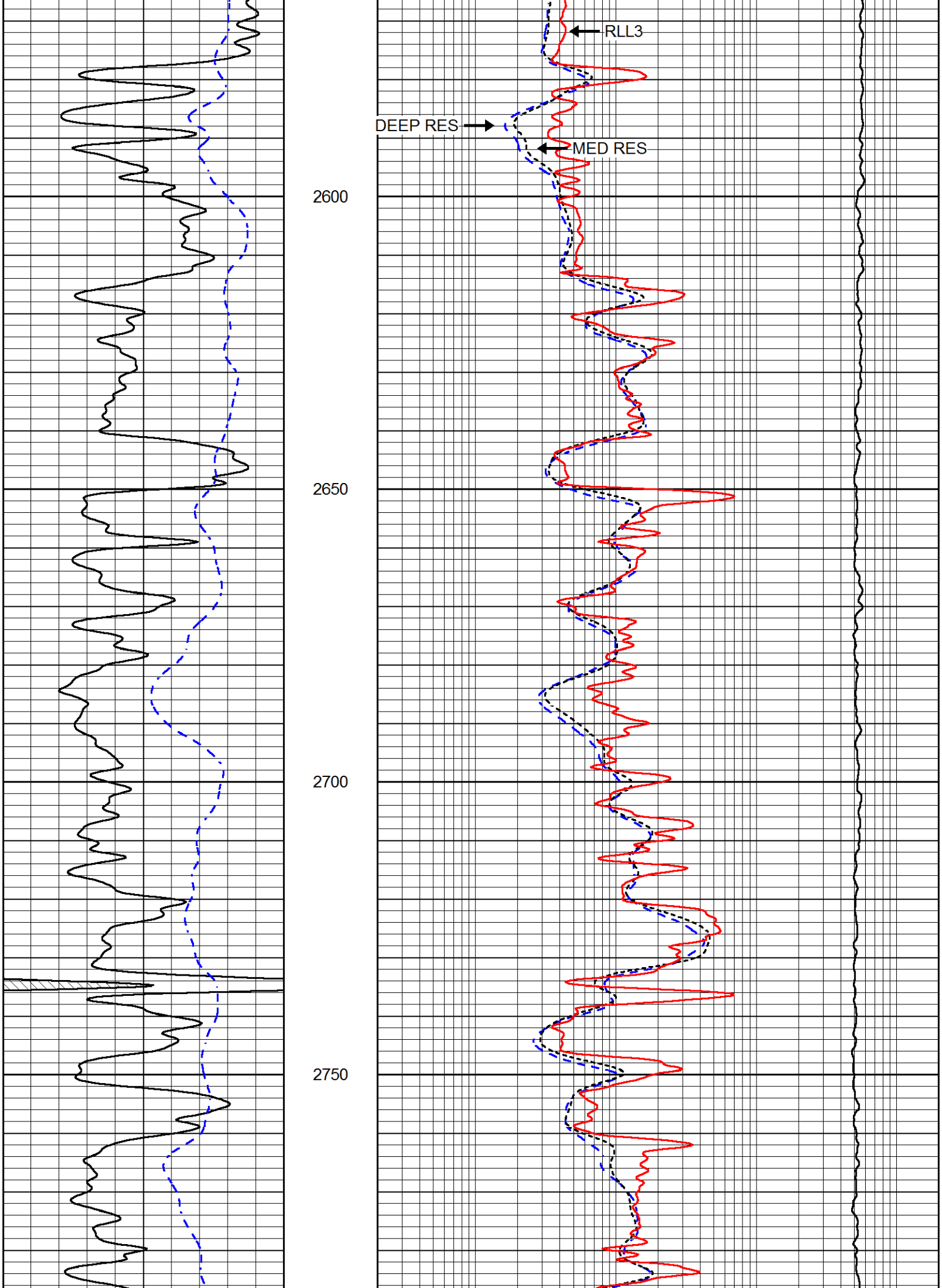


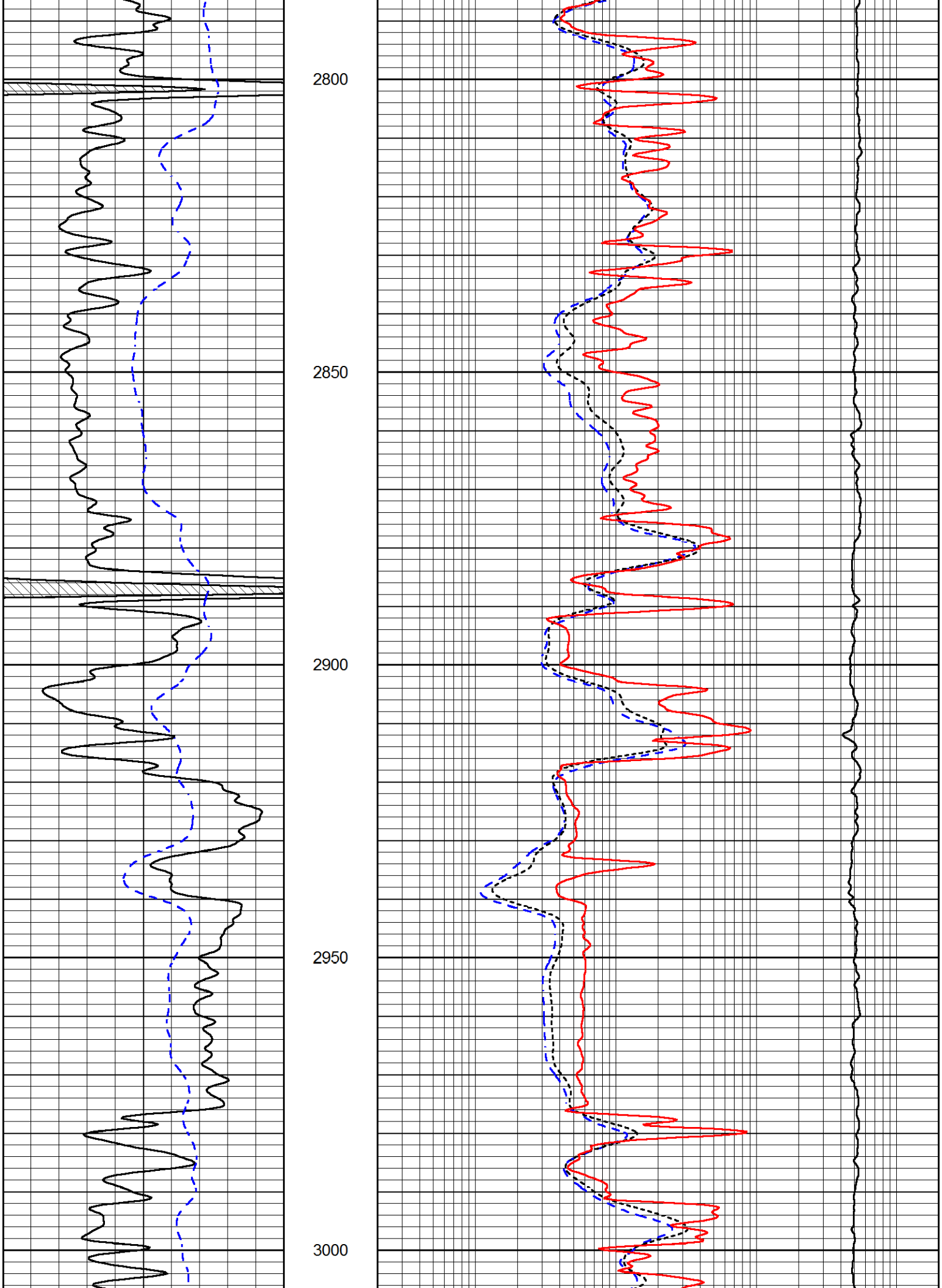
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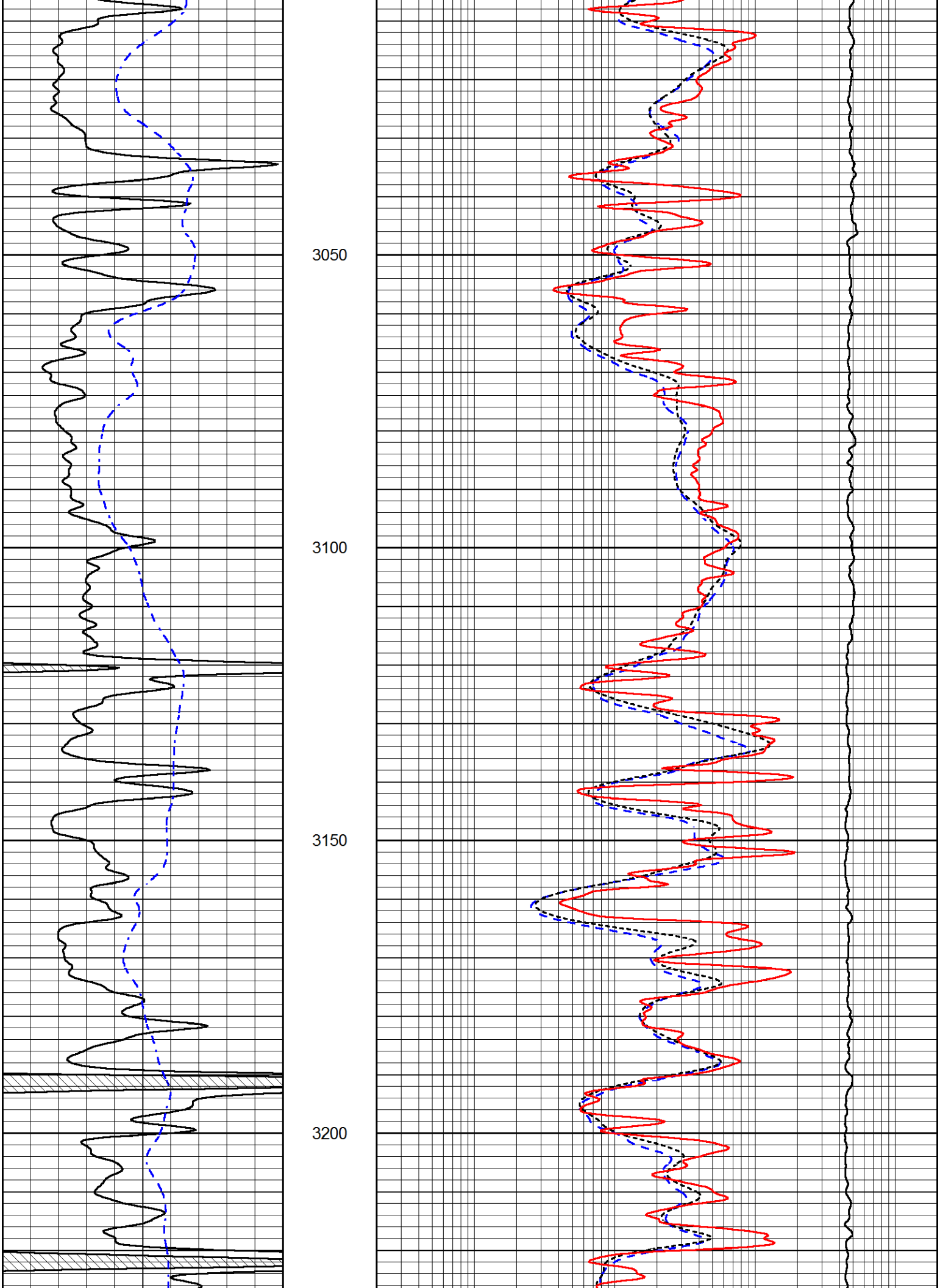
MAIN PASS

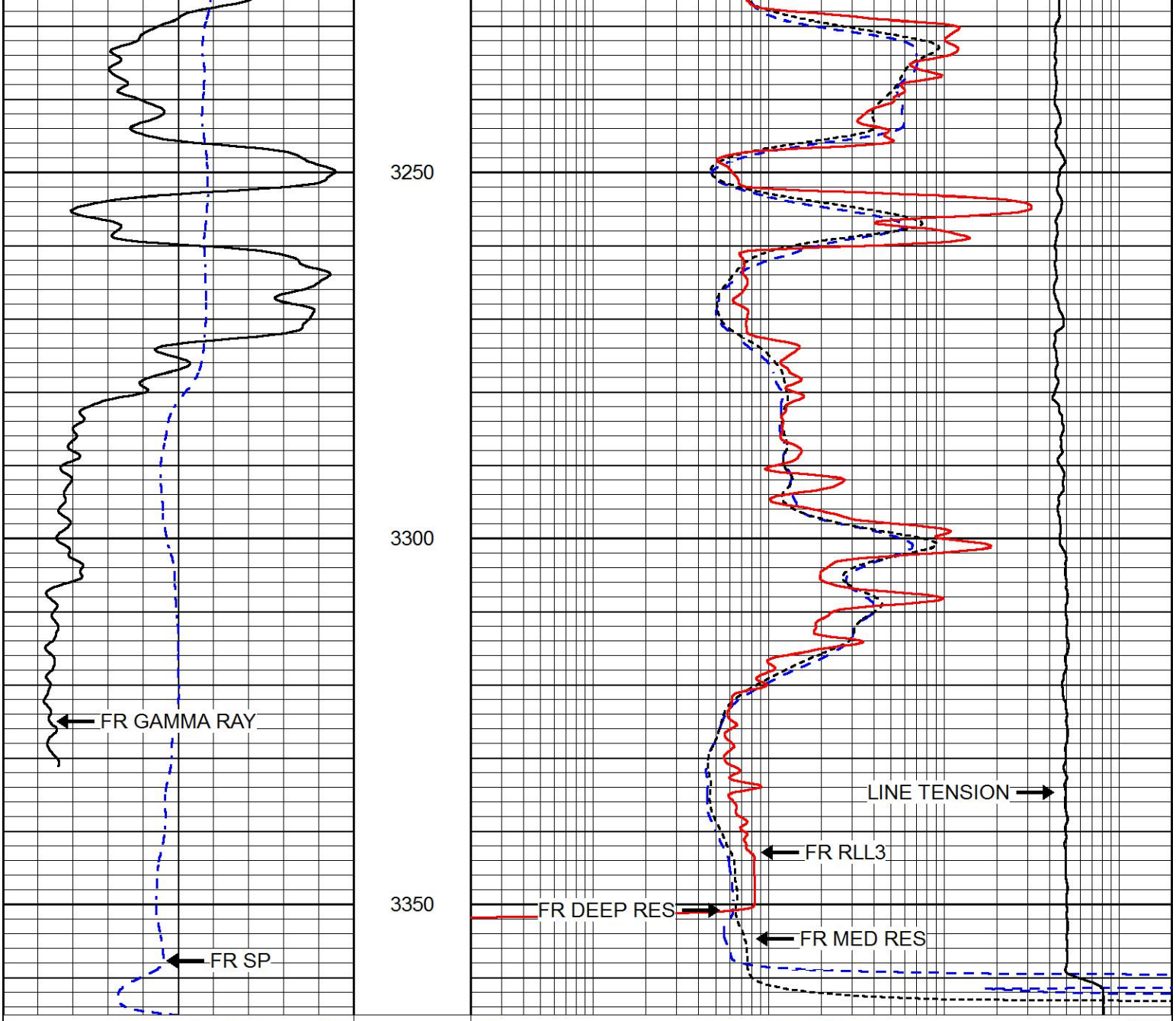
Database File	prospect_alvin soukup jr 1.db
Dataset Pathname	STACK/pass4.1
Presentation Format	dil
Dataset Creation	Wed Dec 06 01:55:07 2017
Charted by	Depth in Feet scaled 1:240




RLL3
DEEP RES
MED RES
2600
2650
2700
2750


2800
2850
2900
2950
3000


3050
3100
3150
3200



0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0

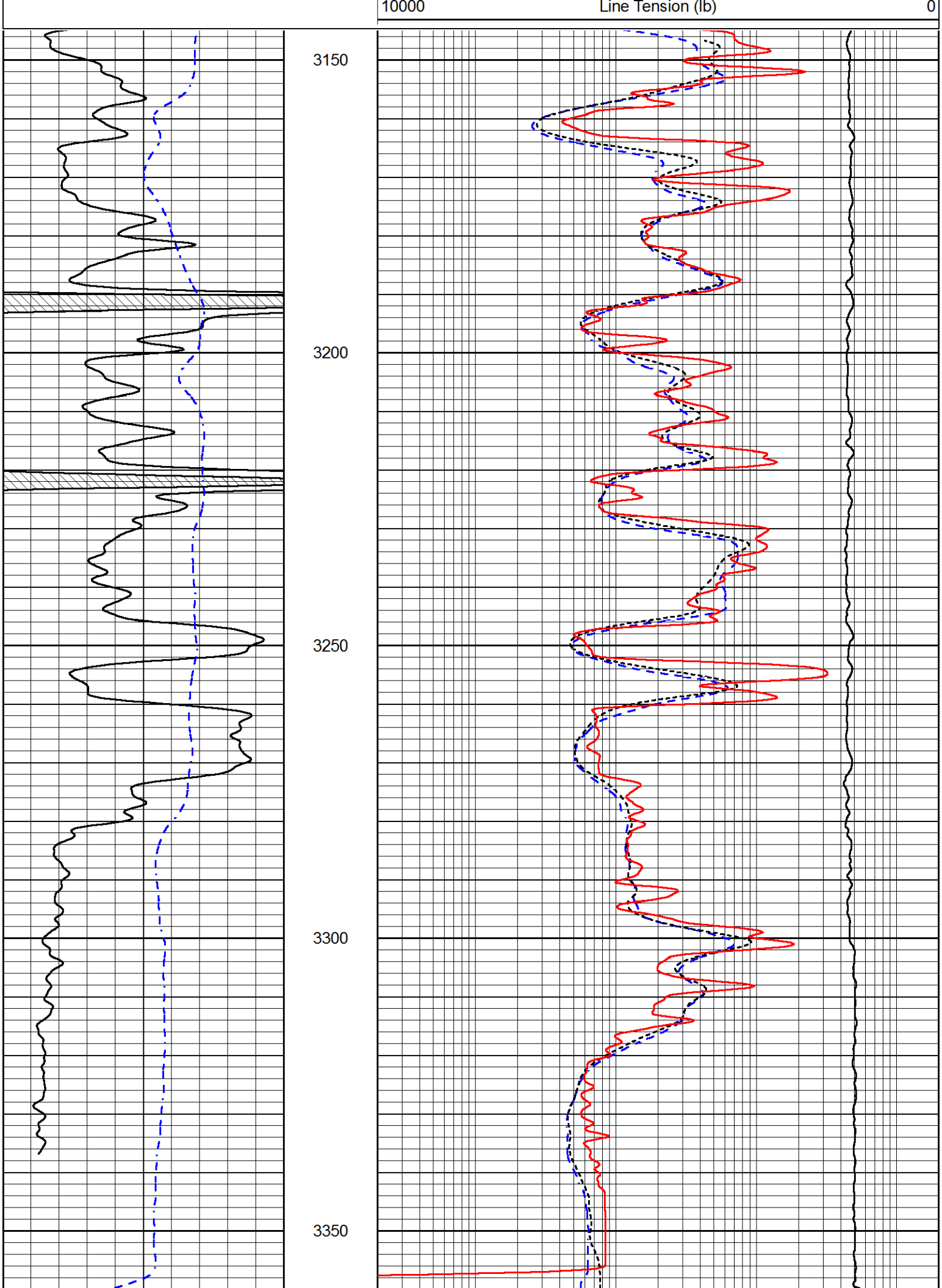
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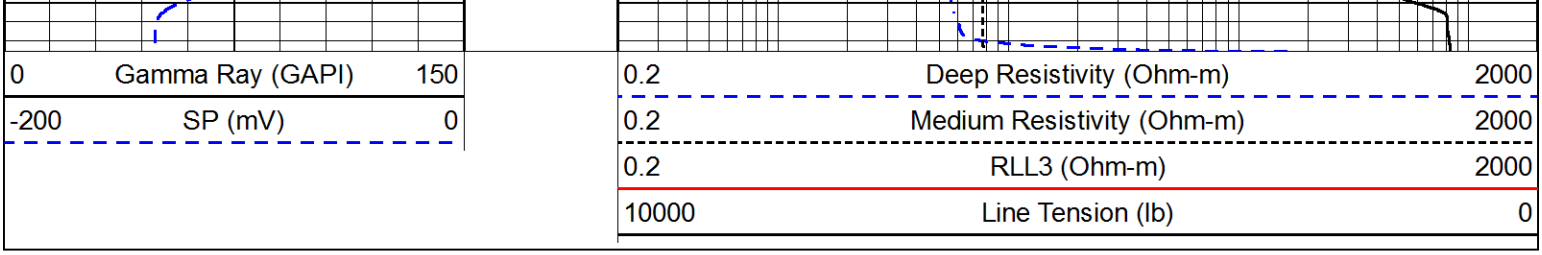
REPEAT SECTION

Database File	prospect_alvin soukup jr 1.db
Dataset Pathname	STACK/pass2.1
Presentation Format	dil
Dataset Creation	Wed Dec 06 01:25:10 2017
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000


10000
Line Tension (lb)
0
3150
3200
3250
3300
3350



Calibration Report

Database File	prospect_alvin soukup jr 1.db
Dataset Pathname	STACK/pass3.3
Dataset Creation	Wed Dec 06 01:22:57 2017

Dual Induction Calibration Report

Serial-Model:	PSI 91-M&W
Calibration Performed:	Thu Nov 09 00:57:24 2017

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep	166.796	835.089	0.000	255.800	mmho/m	0.430	-31.500
Medium	142.009	1348.560	0.000	255.800	mmho/m	0.360	-31.000

Compensated Density Calibration Report

Serial-Model:	90-1031-M&W
Source / Verifier:	16955B / 2ci
Master Calibration Performed:	Sat Dec 02 18:42:45 2017

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4903.44	6153.79	cps
Aluminum	2.640	g/cc	934.50	4021.31	cps

Spine Angle = 75.61

Density/Spine Ratio = 0.517

	Size		Reading
Small Ring	8.00	in	1.84
Large Ring	22.00	in	1.46

Compensated Neutron Calibration Report

Serial Number:	207-MW
Tool Model:	M&W
Calibration Performed:	WED SEP 6 10:30:30 2017

Detector	Readings		Target		Normalization
Short Space	6240.00	cps	1000.00	cps	1.6025
Long Space	460.00	cps	1000.00	cps	1.9500

Gamma Ray Calibration Report

Serial Number:	89
Tool Model:	M&W

Calibration Performed:	Wed Sep 06 19:51:14 2017	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps

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Company	PROSPECT OIL & GAS, INC.
Well	ALVIN SOUKUP JR #1
Field	HALL-GURNEY
County	RUSSELL
State	KANSAS