PIONEER

Pioneer Energy Services

RADIATION GUARD LOG

Company ZINSZER OIL COMPANY, INC.

Well AMREIN NO. 3

Field WEBSTER

County ROOKS State KANSAS

Location: API # : 15-163-24,309-00-00

990' FSL & 2,310' FEL

SEC 33 TWP 8S RGE 19W

Other Services

MEL

Permanent Datum GROUND LEVEL Elevation 1994'

Log Measured From KELLY BUSHING

Drilling Measured From KELLY BUSHING

Elevation
K.B. 2002'
D.F. N/A
G.L. 1994'

Date	11/4/2015		
Run Number	ONE		
Depth Driller	3432'		
Depth Logger	3433'		
Bottom Logged Interval	3432'		
Top Log Interval	1400'		
Casing Driller	8.625" @ 1420'		
Casing Logger	1416'		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Salinity,ppm CL	2500		
Density / Viscosity	9.0	54	
pH / Fluid Loss	9.5	8.8	
Source of Sample	Flowline		
Rm @ Meas. Temp	.86 @ 74		
Rmf @ Meas. Temp	.65 @ 74		
Rmc @ Meas. Temp	1.16 @ 74		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.58 @ 110		
Operating Rig Time	3 HOURS		
Max Rec. Temp. F	110		
Equipment Number	108		
Location	Hays		
Recorded By	J. LONG		
Witnessed By	MARC DOWNING		

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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.

ZURICH, 5 NORTH, 1/2 WEST, NORTH INTO

Log Measured From: KELLY BUSHING 8 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES

www.pioneeres.com 785-625-3858

Your Pioneer Energy Services Crew

Engineer: J. LONG

Operator:

Operator:

Operator:

This Log Record Was Witnessed By

Primary Witness: MARC DOWNING

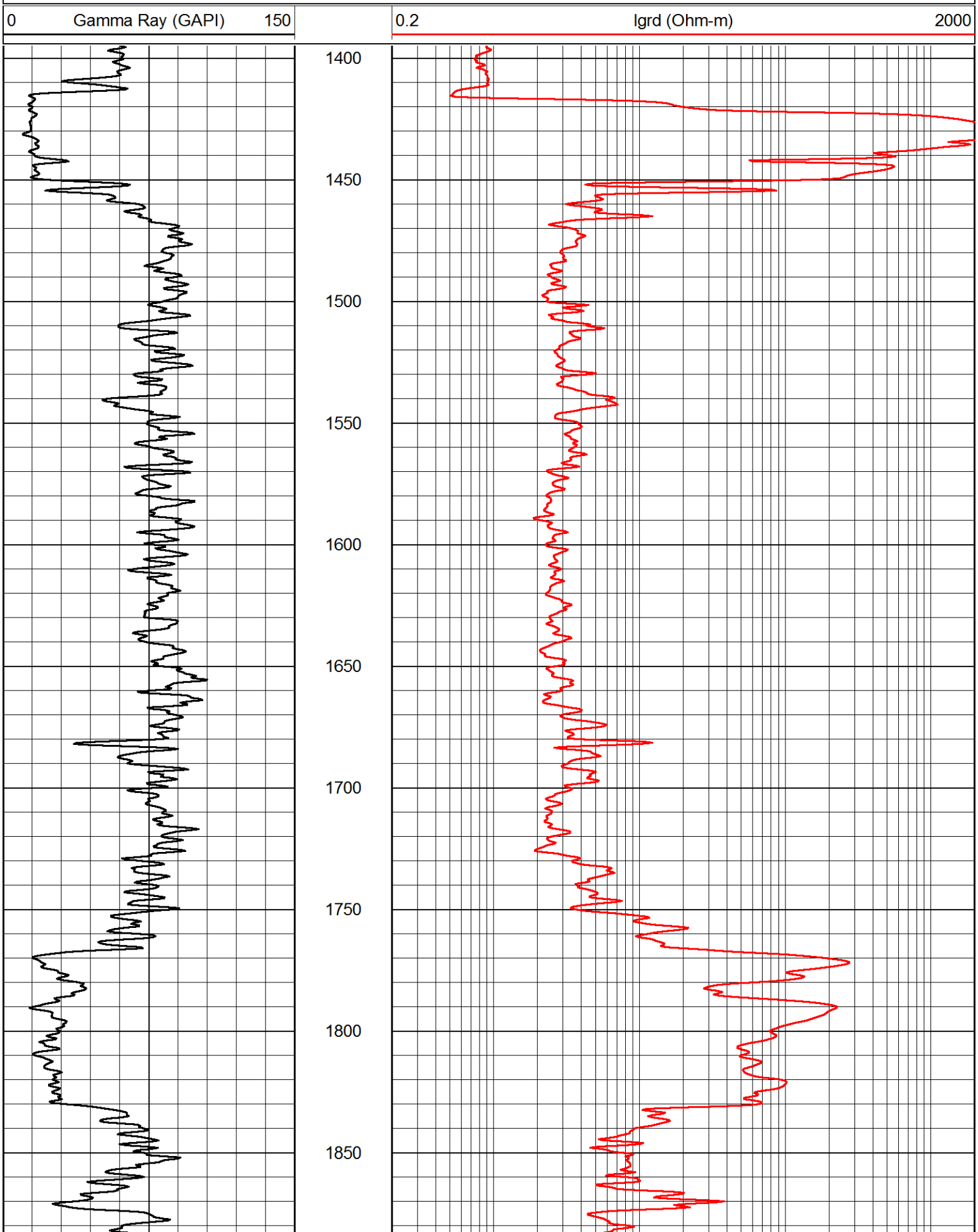
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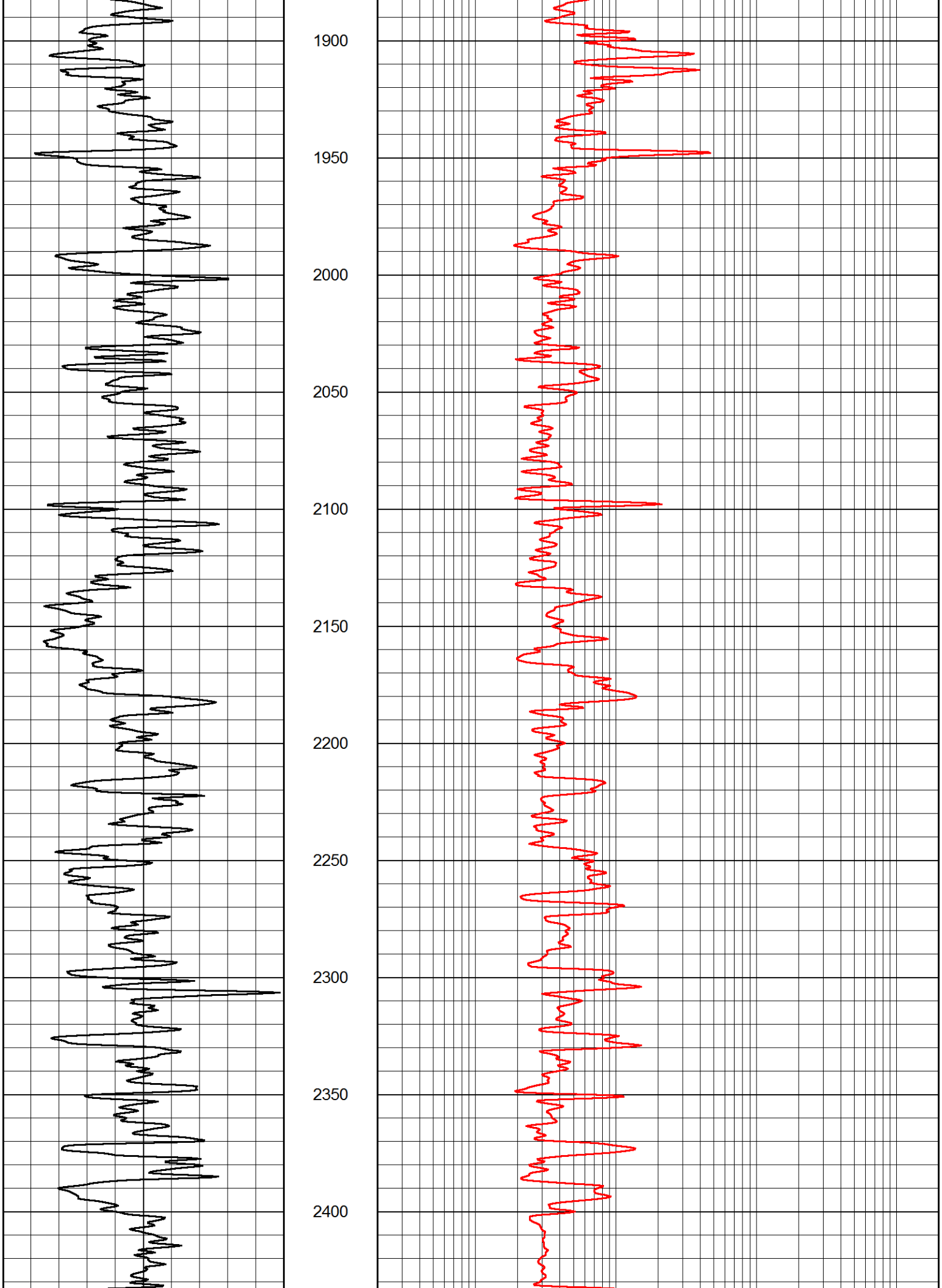
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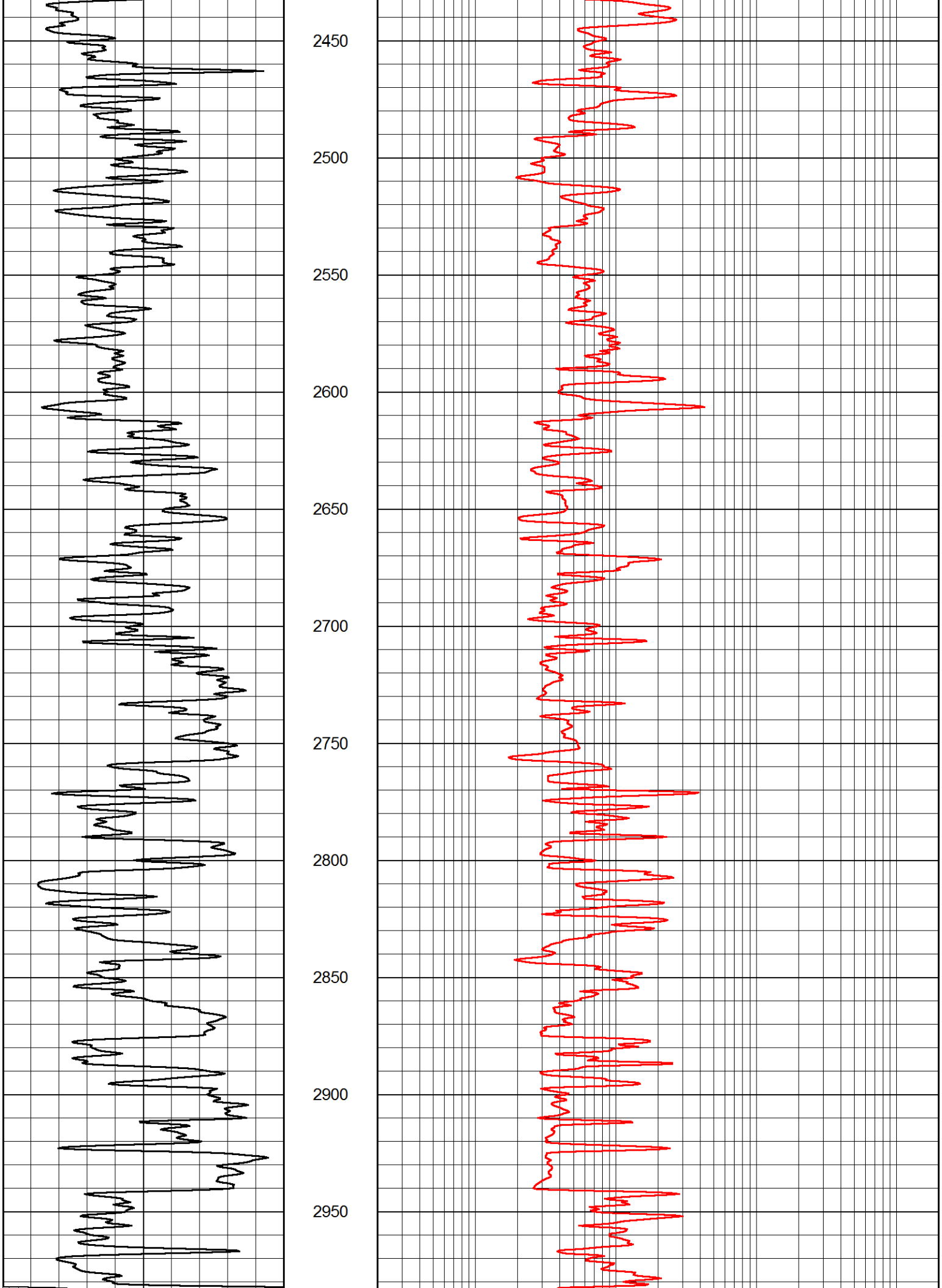
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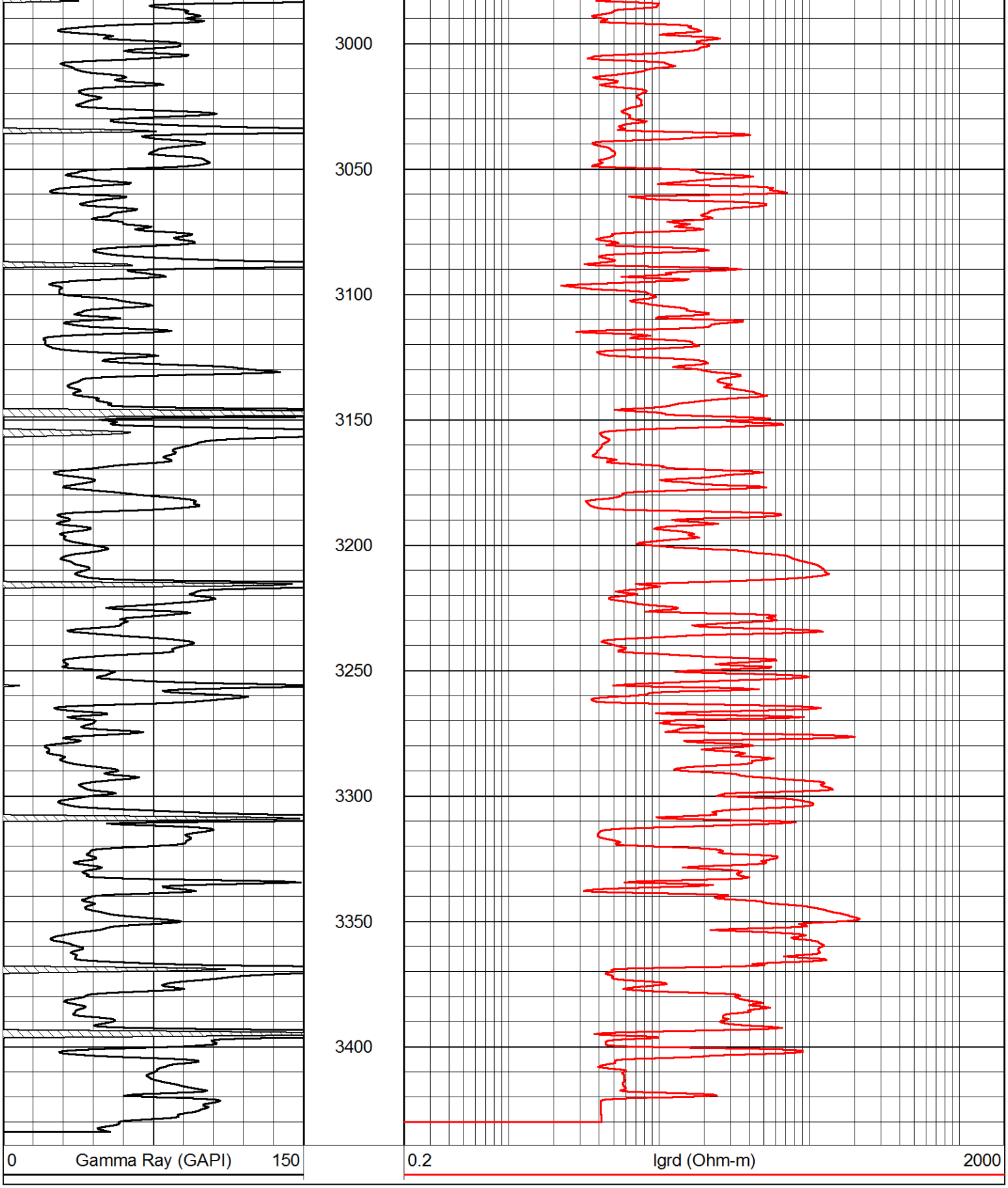
CompanyZINSZER OIL COMPANY, INC.
Well AMREIN NO. 3
Field WEBSTER
County ROOKS
State KANSAS

Database File	zinszer_amrein_3hd.db
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Presentation Format	rag2in
Dataset Creation	Thu Nov 05 01:14:07 2015
Charted by	Depth in Feet scaled 1:600



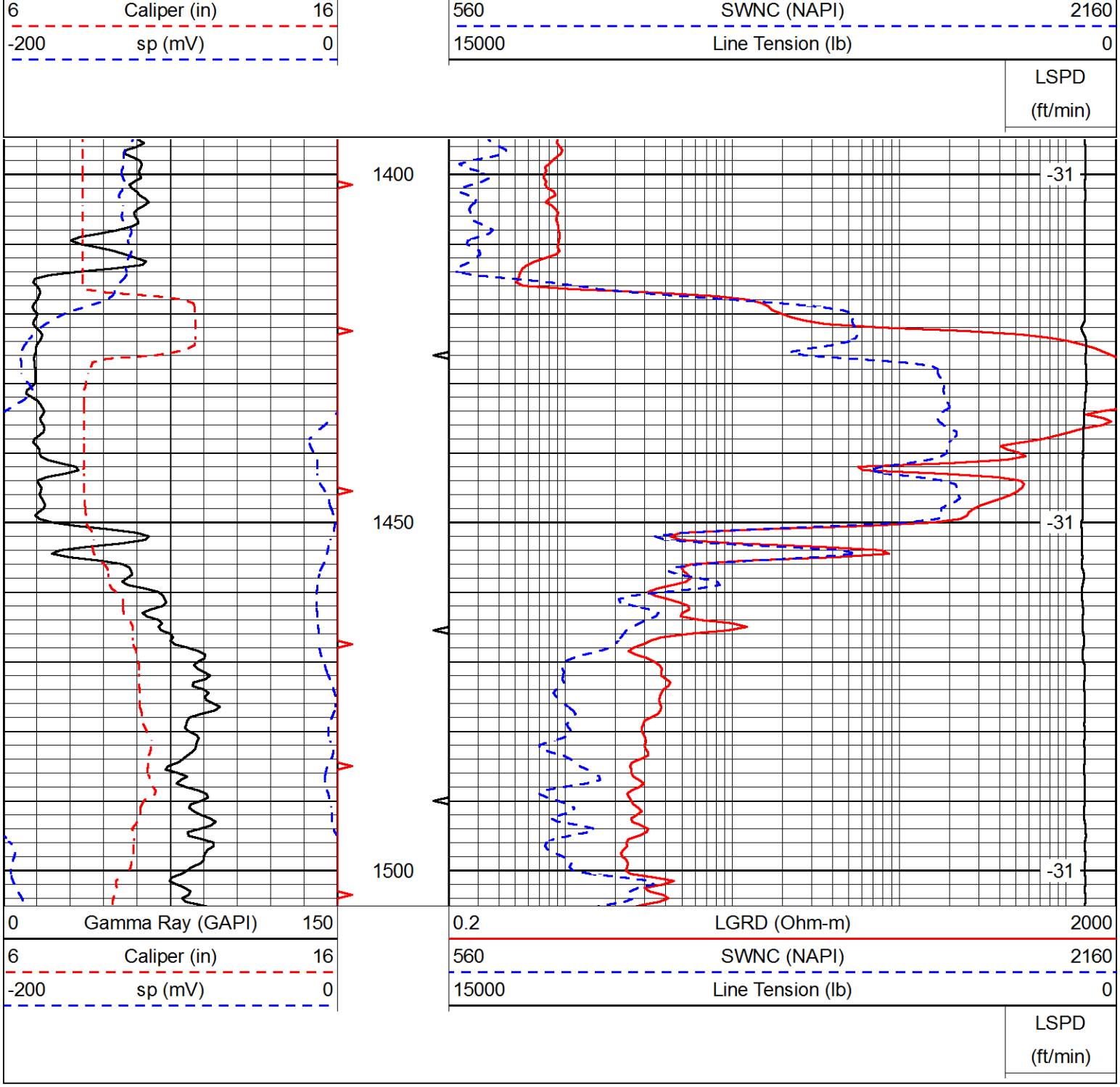

1900
1950
2000
2050
2100
2150
2200
2250
2300
2350
2400


2450
2500
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2600
2650
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2750
2800
2850
2900
2950

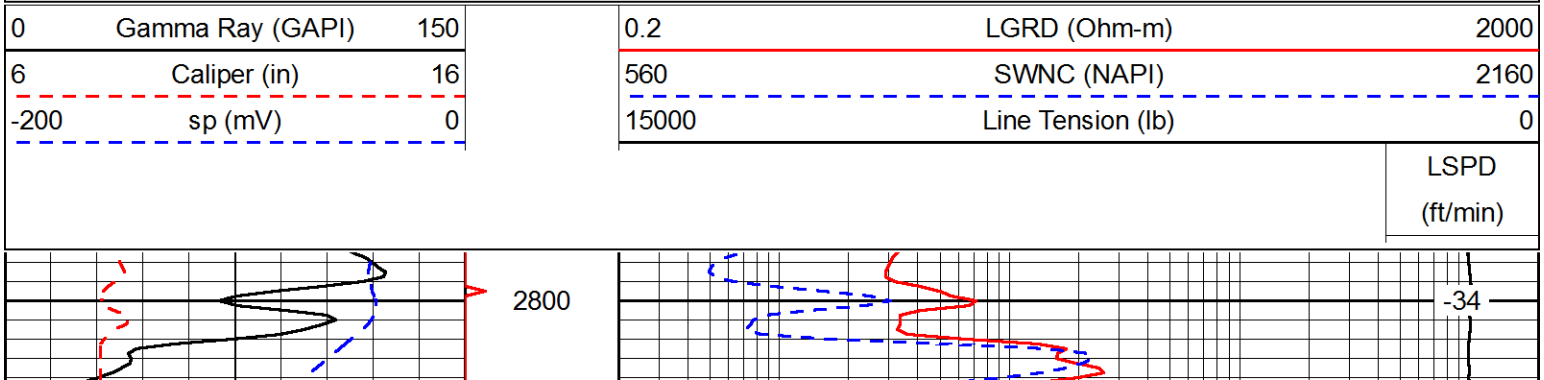


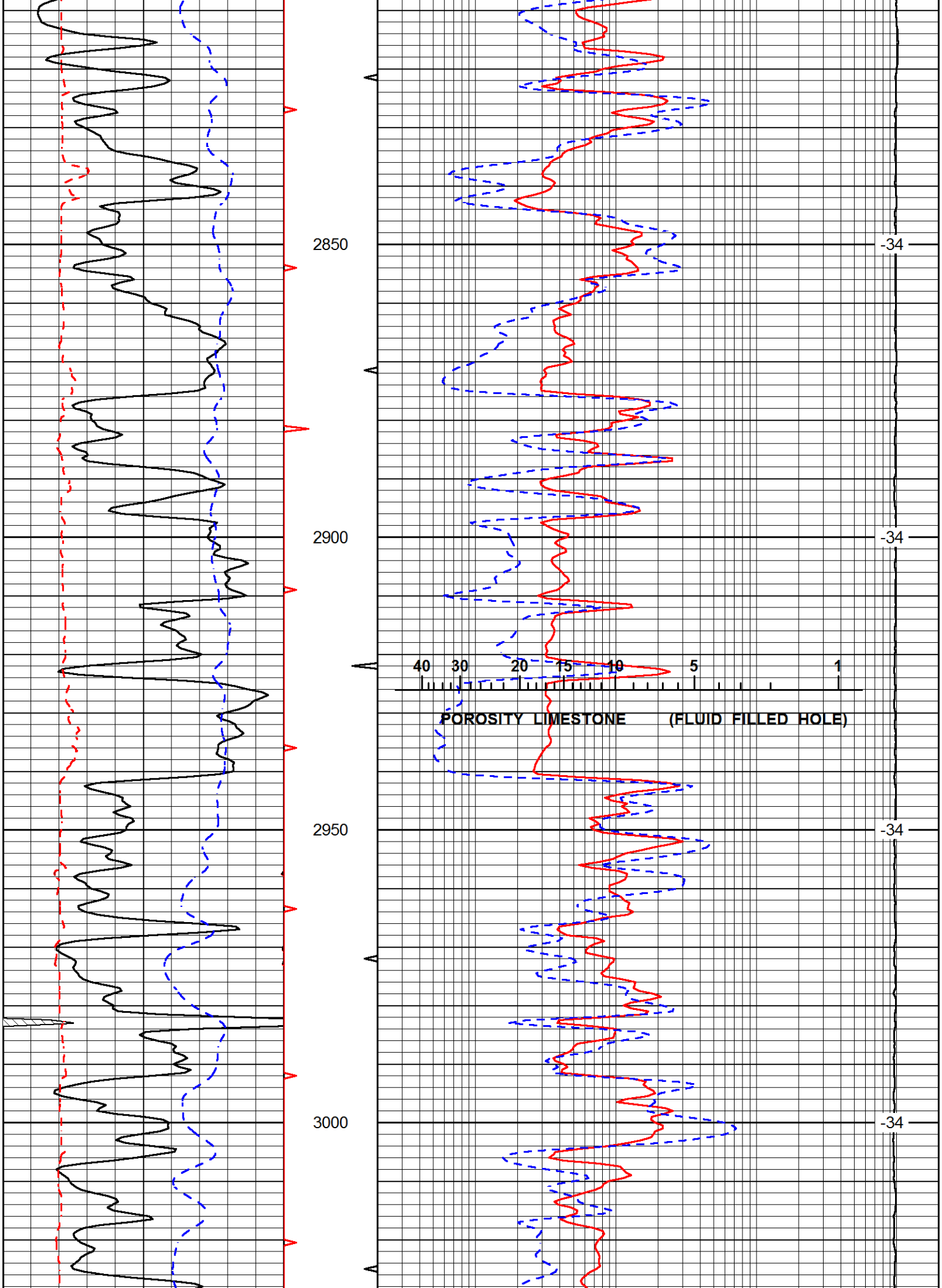
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Presentation Format	rag
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Charted by	Depth in Feet scaled 1:240

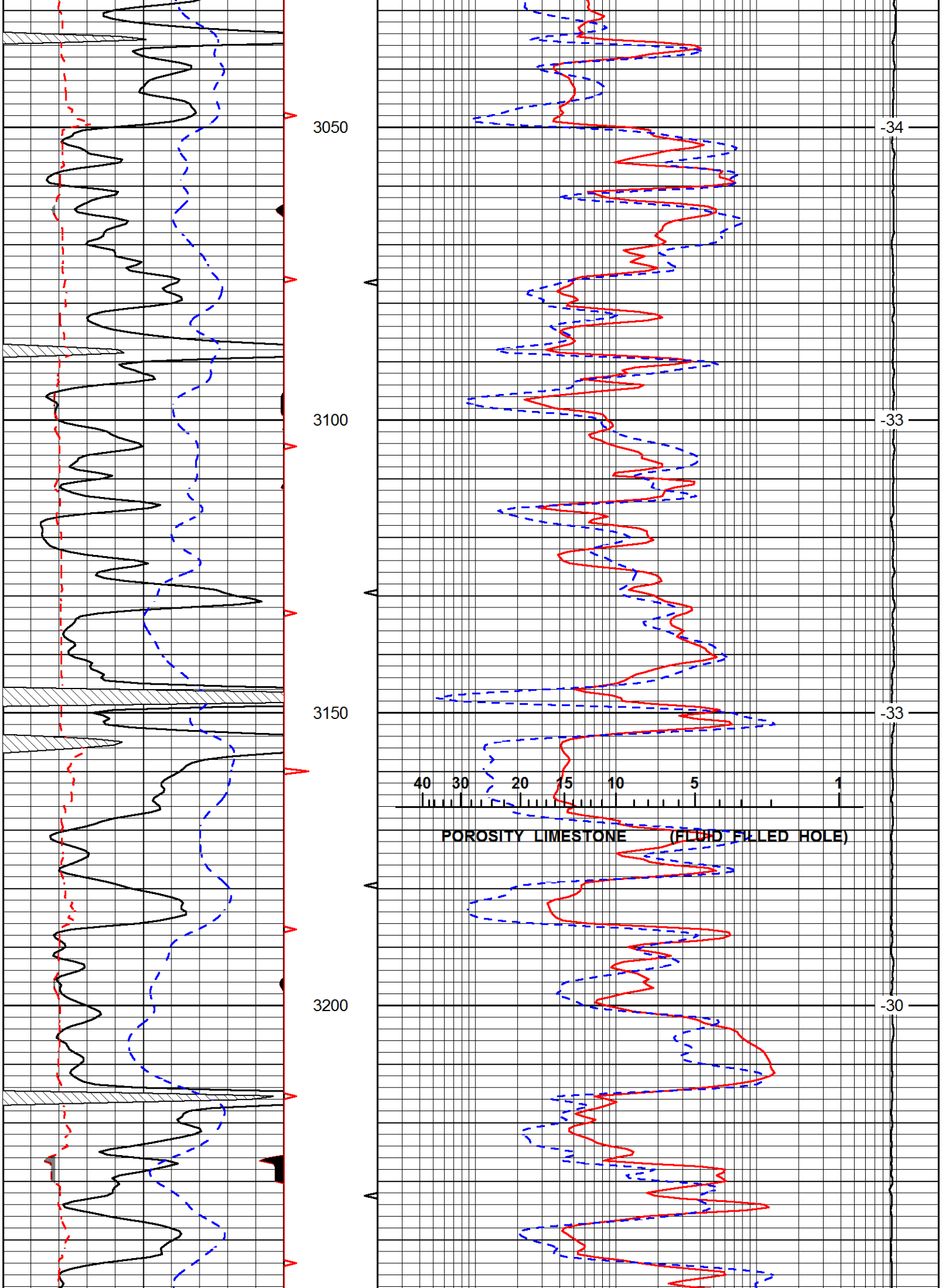
0	Gamma Ray (GAPI) 150	0.2	LGRD (Ohm-m) 2000

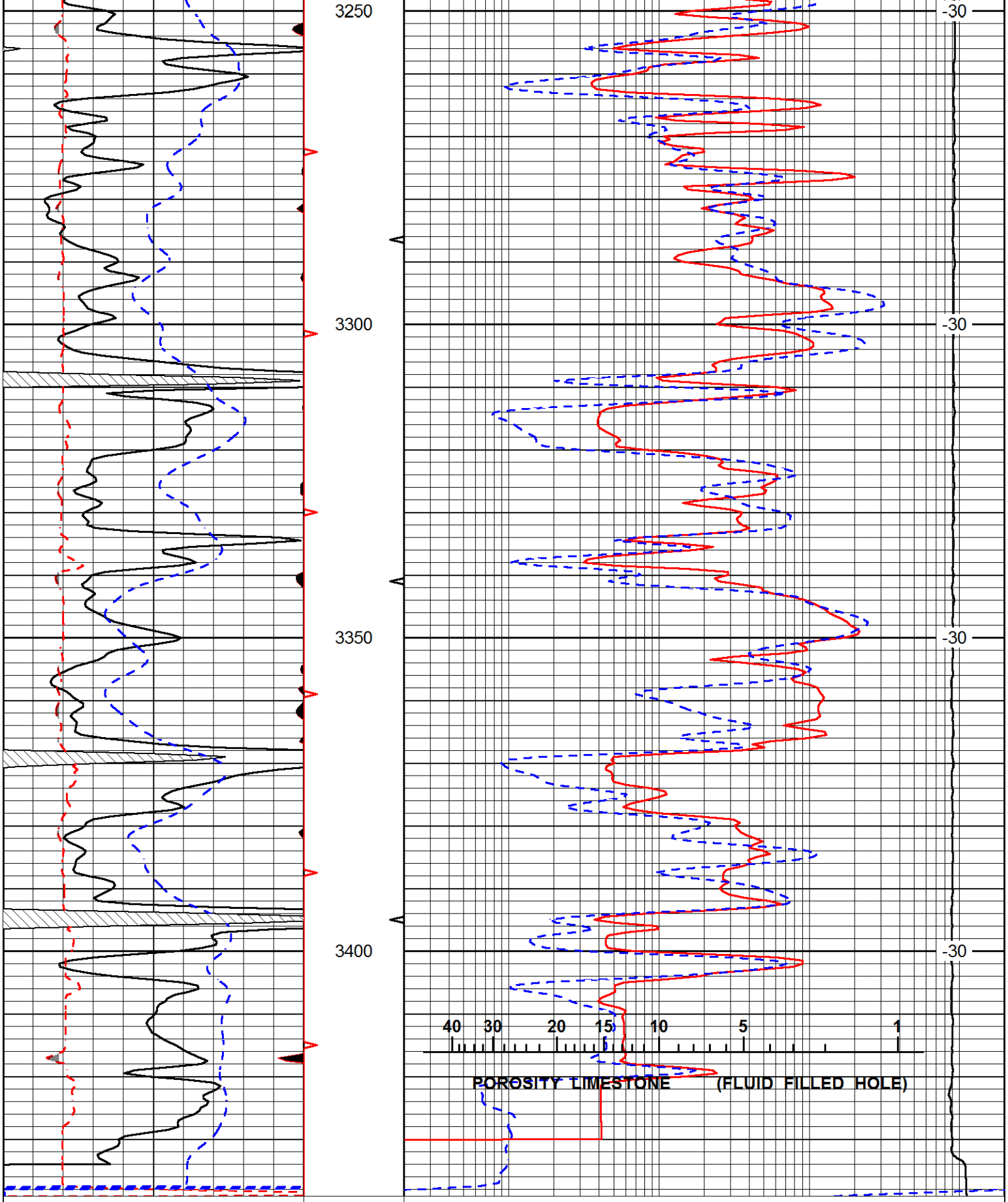


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Presentation Format	rag
Dataset Creation	Thu Nov 05 01:14:07 2015
Charted by	Depth in Feet scaled 1:240




2850
2900
2950
3000
-34
-34
-34
-34
40 30 20 15 10 5 1
POROSITY LIMESTONE (FLUID FILLED HOLE)


3050
3100
3150
3200
-34
-33
-33
-30
40 30 20 15 10 5 1
POROSITY LIMESTONE (FLUID FILLED HOLE)


3250
3300
3350
3400
-30
-30
-30
-30
40 30 20 15 10 5 1
POROSITY LIMESTONE (FLUID FILLED HOLE)
0 Gamma Ray (GAPI) 150
6 Caliper (in) 16
-200 sp (mV) 0
0.2 LGRD (Ohm-m) 2000
560 SWNC (NAPI) 2160
15000 Line Tension (lb) 0
LSPD
(ft/min)