



DUAL INDUCTION LOG

Company MIKE KELSO OIL, INC.		Company MIKE KELSO OIL, INC.	
Well SCHROEDER B NO.3		Well SCHROEDER B NO.3	
Field STOLTENBERG		Field STOLTENBERG	
County ELLSWORTH		County ELLSWORTH	
State KANSAS		State KANSAS	
Location: API #: 15-053-21,335-00-00		Other Services	
1720' FNL & 330' FWL		CNL/CDL MEL	
SEC 29 TWP 17S RGE 9W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	1751
Log Measured From	KELLY BUSHING	K.B.	1756
Drilling Measured From	KELLY BUSHING	D.F.	N/A
		G.L.	1751
Date	8/6/2015		
Run Number	ONE		
Depth Driller	3295		
Depth Logger	3293		
Bottom Logged Interval	3292		
Top Log Interval	400		
Casing Driller	8,625 @ 448		
Casing Logger	448		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL		
Salinity, ppm CL	7,600		
Density / Viscosity	9.2 41		
pH / Fluid Loss	8.5 12.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	.55 @ 65		
Rmt @ Meas. Temp	.41 @ 65		
Rmc @ Meas. Temp	.74 @ 65		
Source of Rmt / Rmc	Charts		
Rm @ BHT	.33 @ 109		
Operating Rig Time	2 1/2 HOURS		
Max Rec. Temp. F	109		
Equipment Number	91		
Location	Hays		
Recorded By	C. DESAIRE		D. SCHMIDT
Witnessed By	MIKE KELSO		JERRY GREEN

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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.

HWY 4 AND CHASE BLKTOP,
2 N, E INTO

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

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www.pioneerenergy.com 785-625-3858

Your Pioneer Energy Services Crew

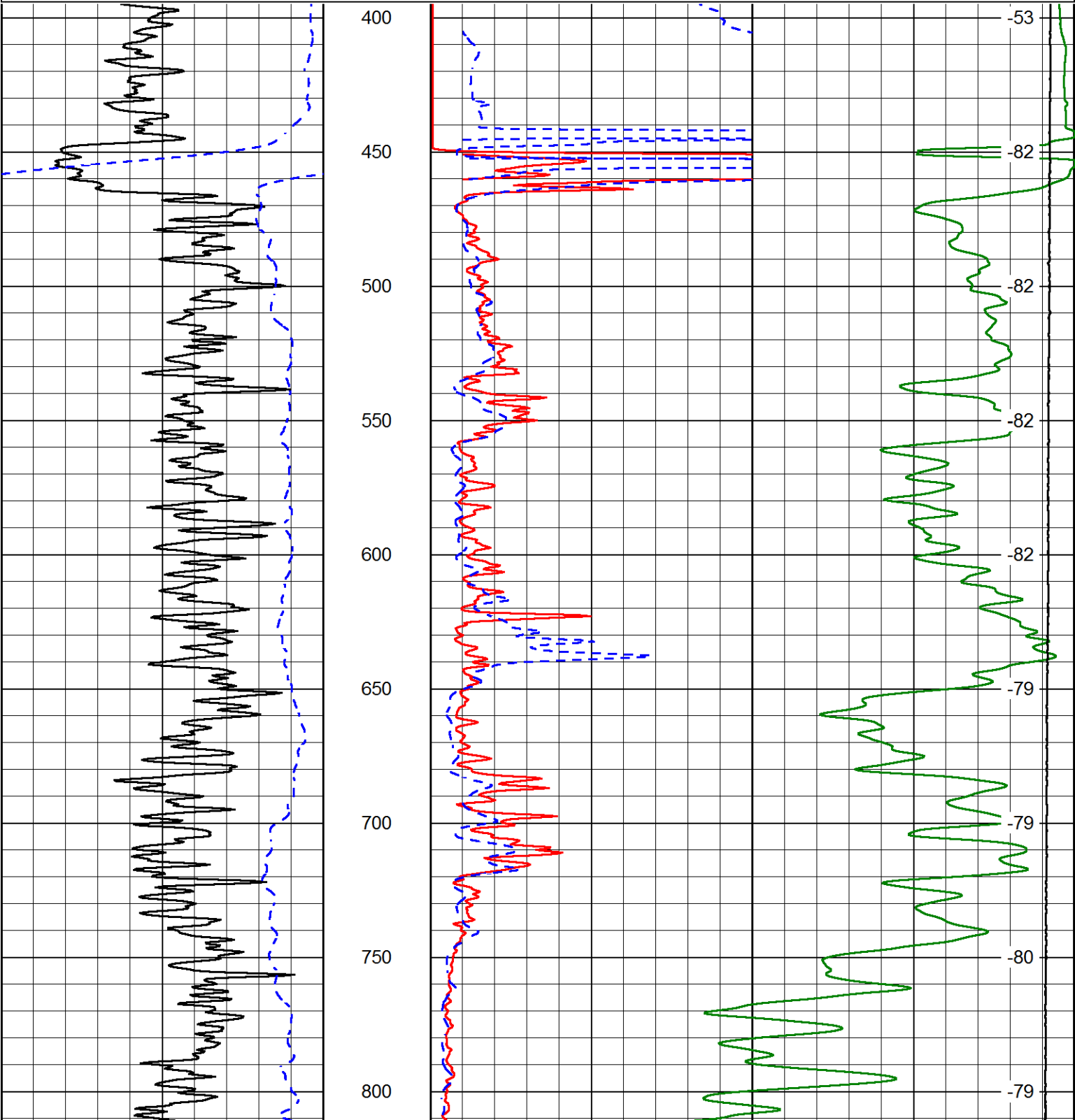
Engineer: C. DESAIRE
Operator: D. SCHMIDT
Operator:
Operator:

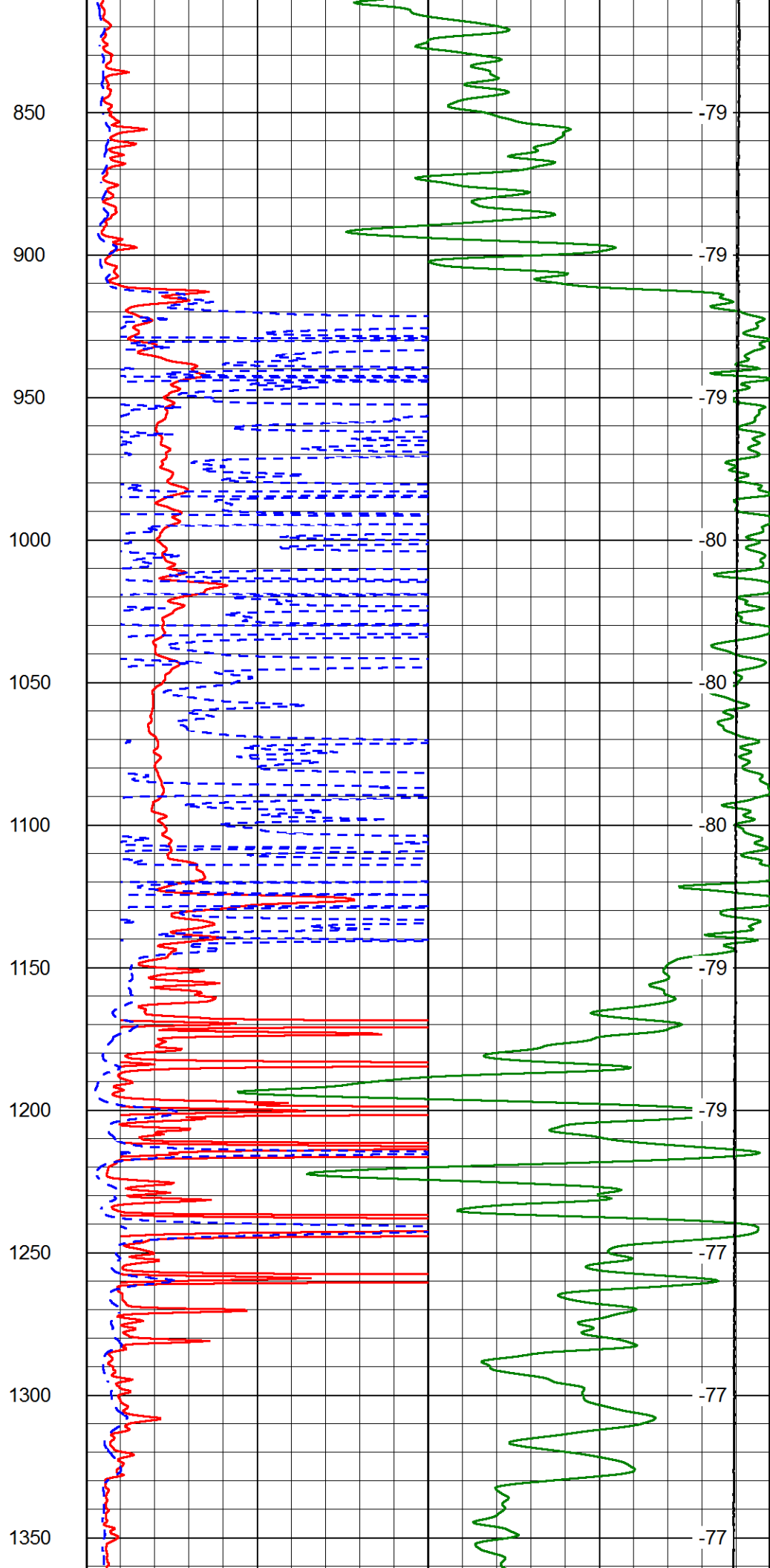
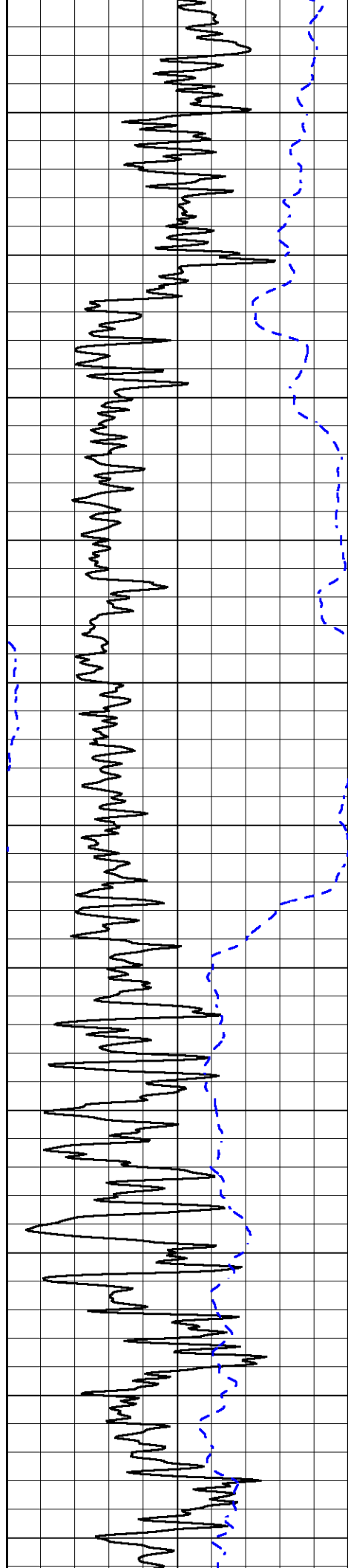
This Log Record Was Witnessed By

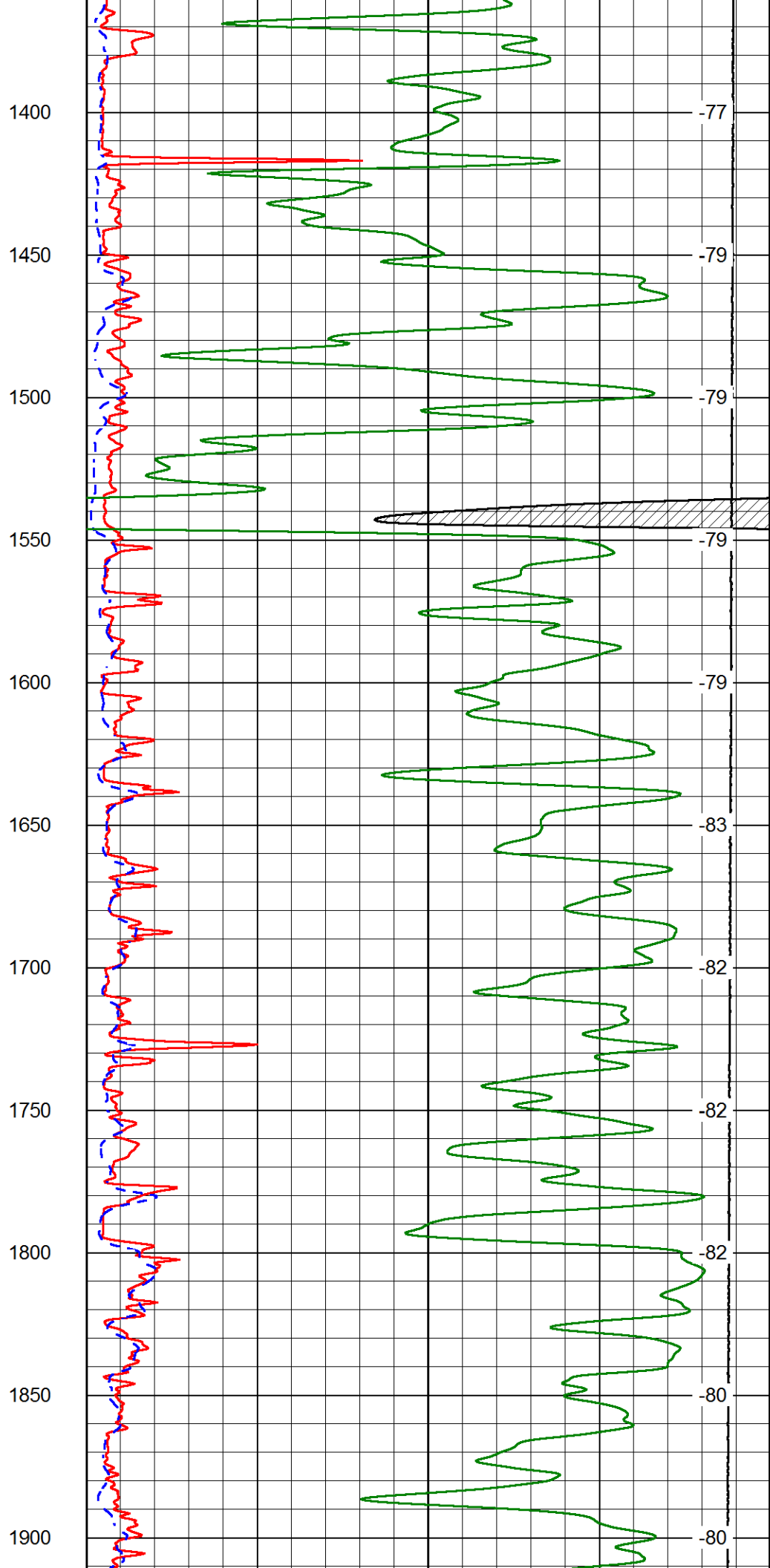
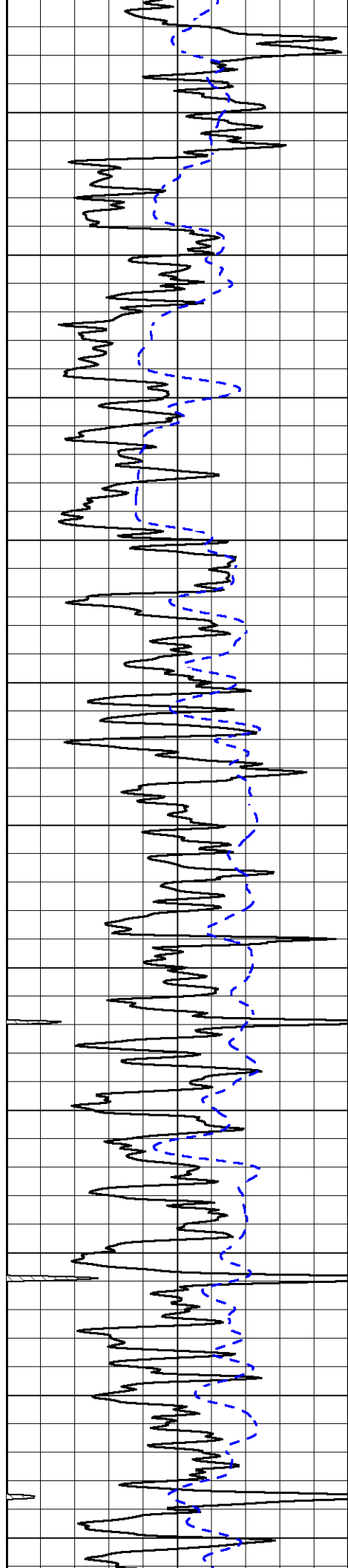
Primary Witness: MIKE KELSO
Secondary Witness: JERRY GREEN
Secondary Witness:
Secondary Witness:

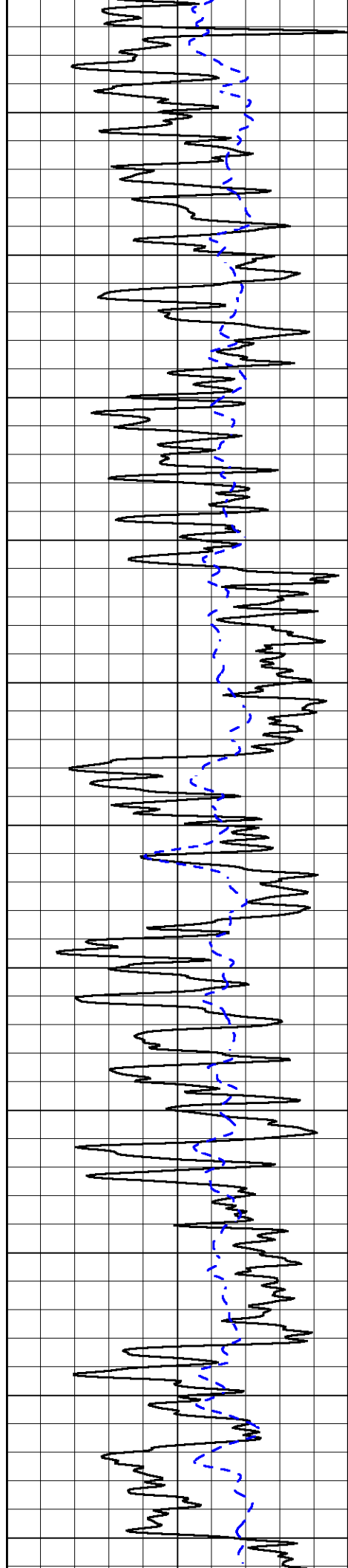
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Dataset Pathname	DIL/mkstk
Presentation Format	dil2in
Dataset Creation	Thu Aug 06 03:16:26 2015
Charted by	Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150	1000	Conductivity	0
-200	SP (mV)	0	15000	Line Tension (lb)	0
			0	Shallow Resistivity (Ohm-m)	50
			0	Deep Resistivity (Ohm-m)	50
			Shallow Resistivity		LSPD
			(Ohm-m)		(ft/min)
			50	500	
			50	Deep Resistivity (Ohm-m)	500









1950

2000

2050

2100

2150

2200

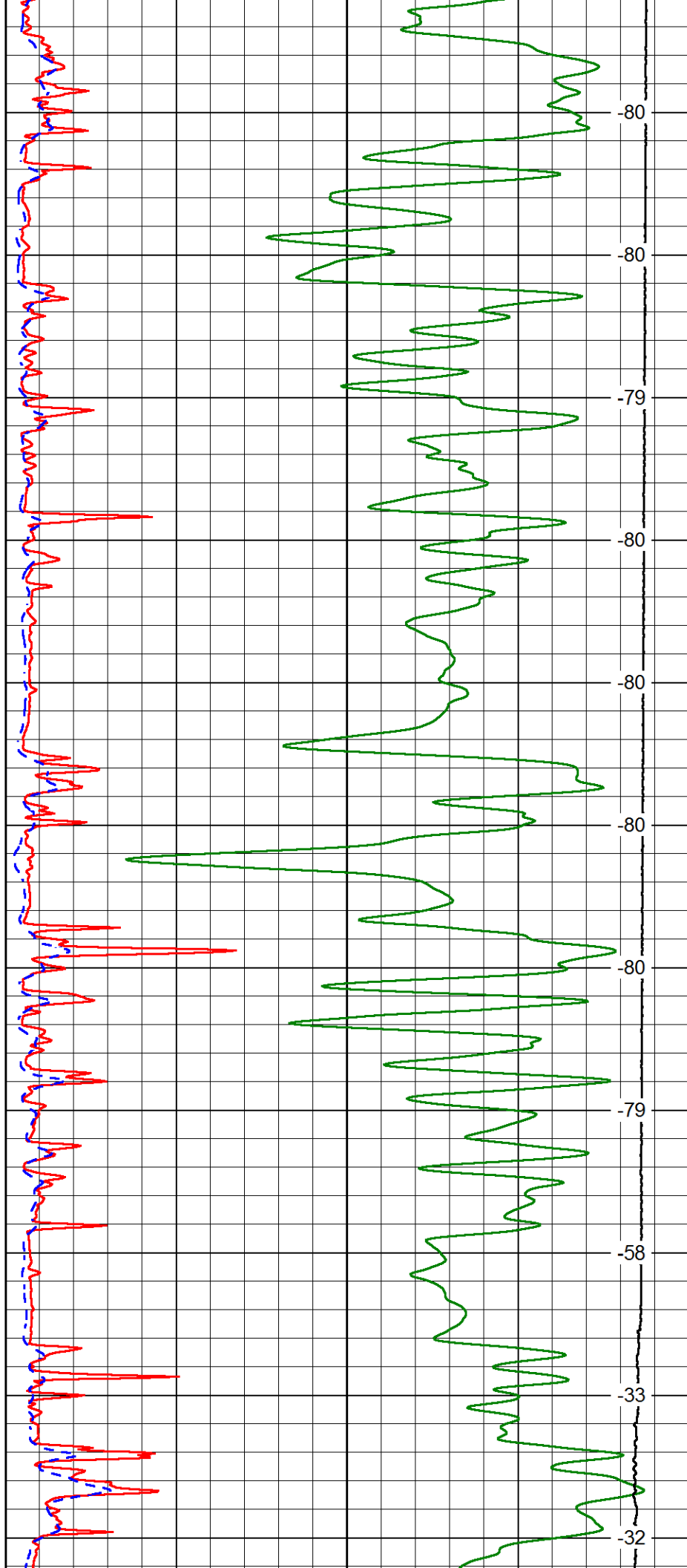
2250

2300

2350

2400

2450



-80

-80

-79

-80

-80

-80

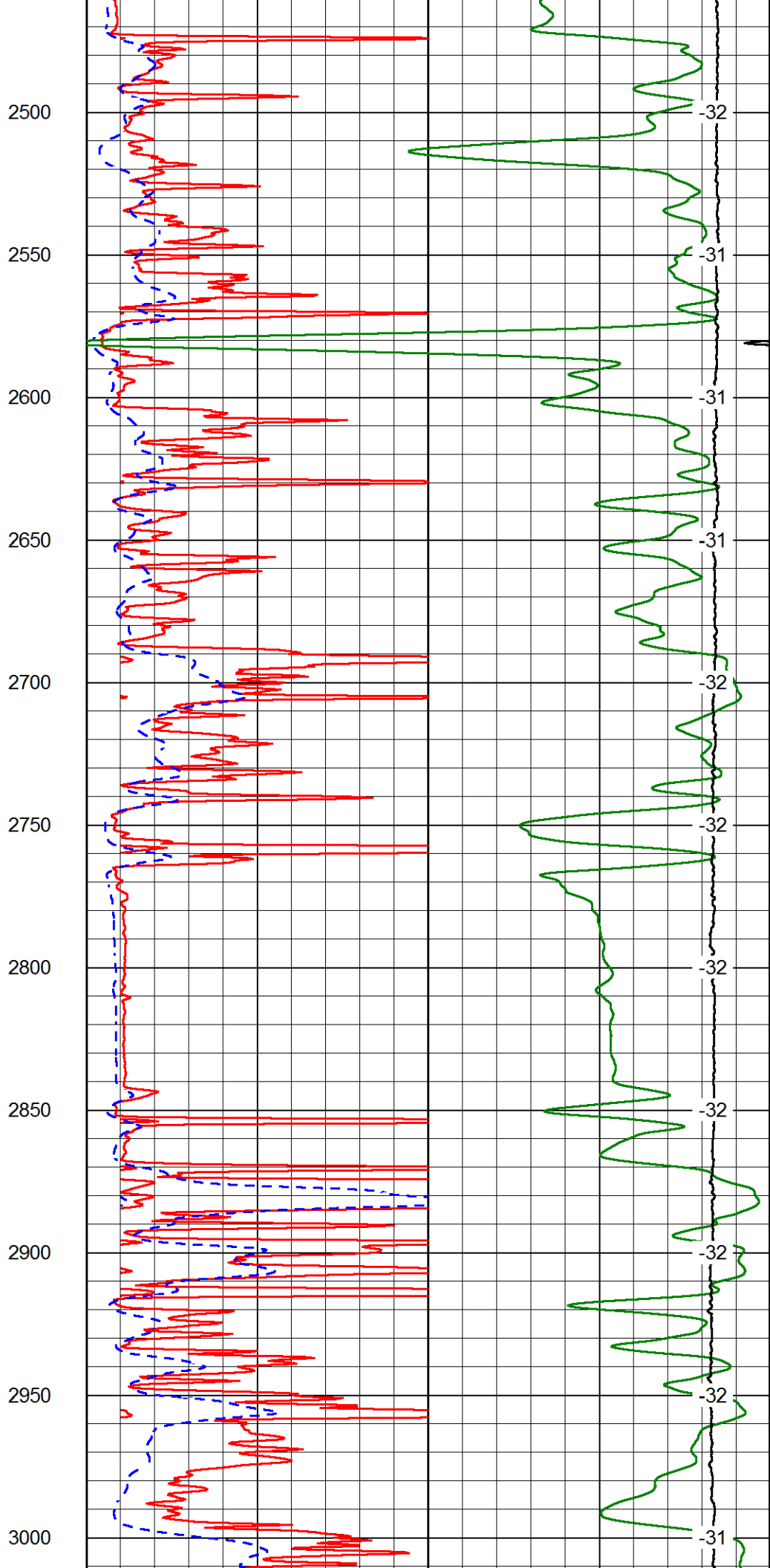
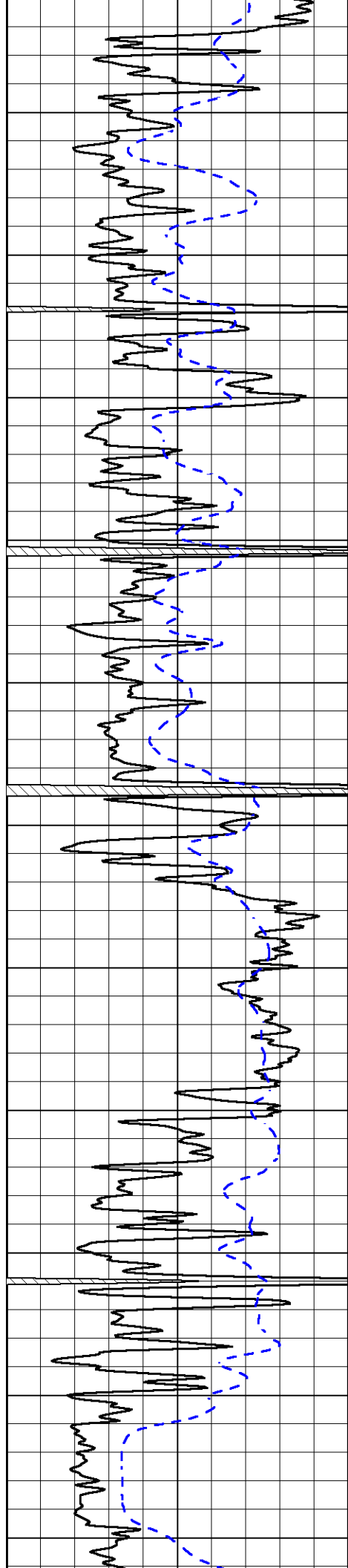
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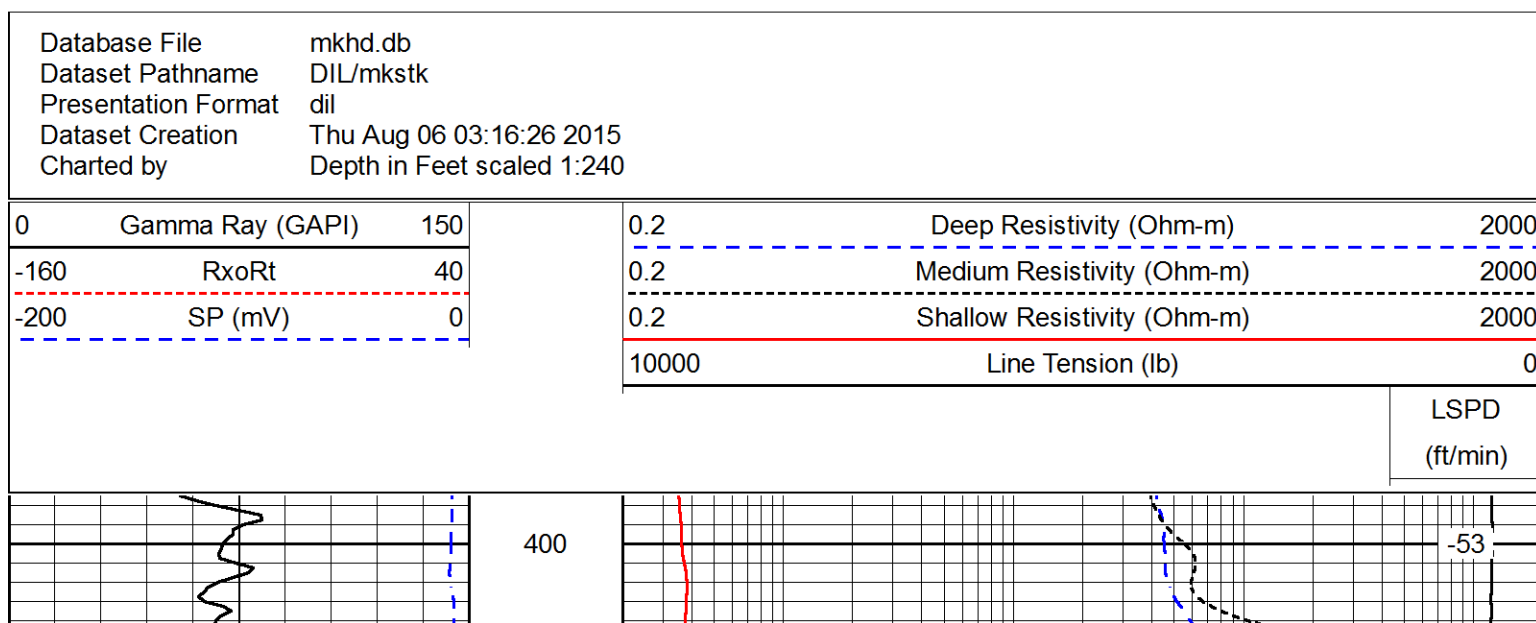
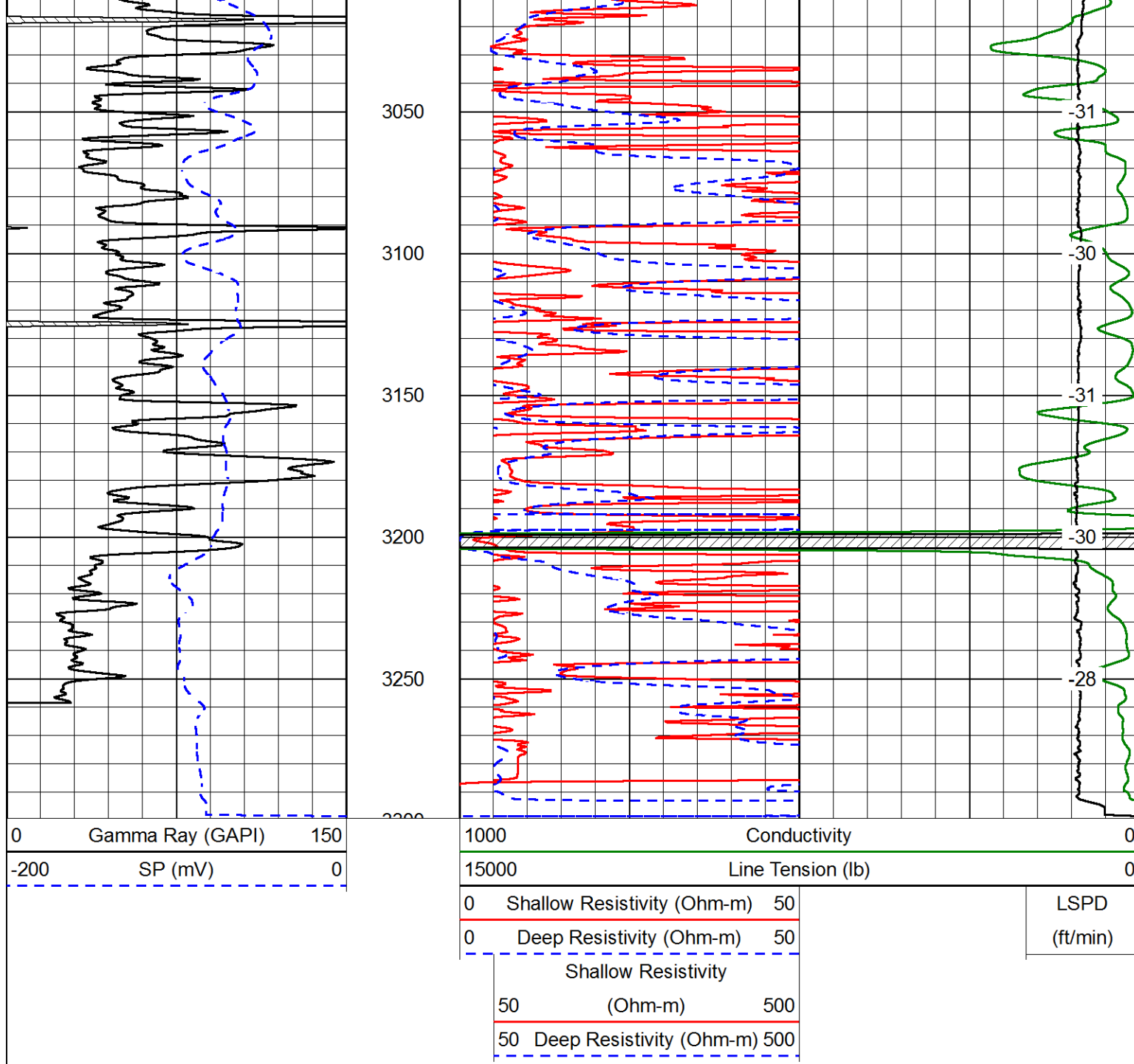
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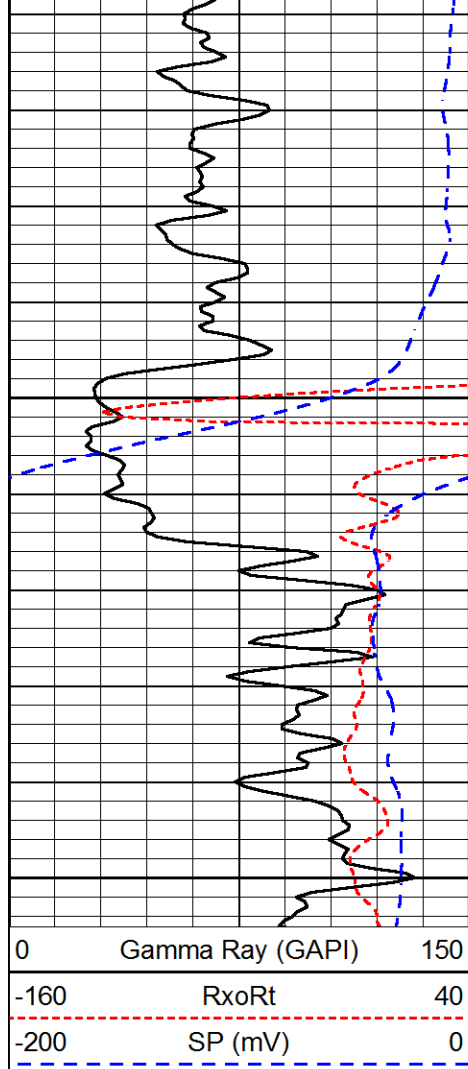
-58

-33

-32

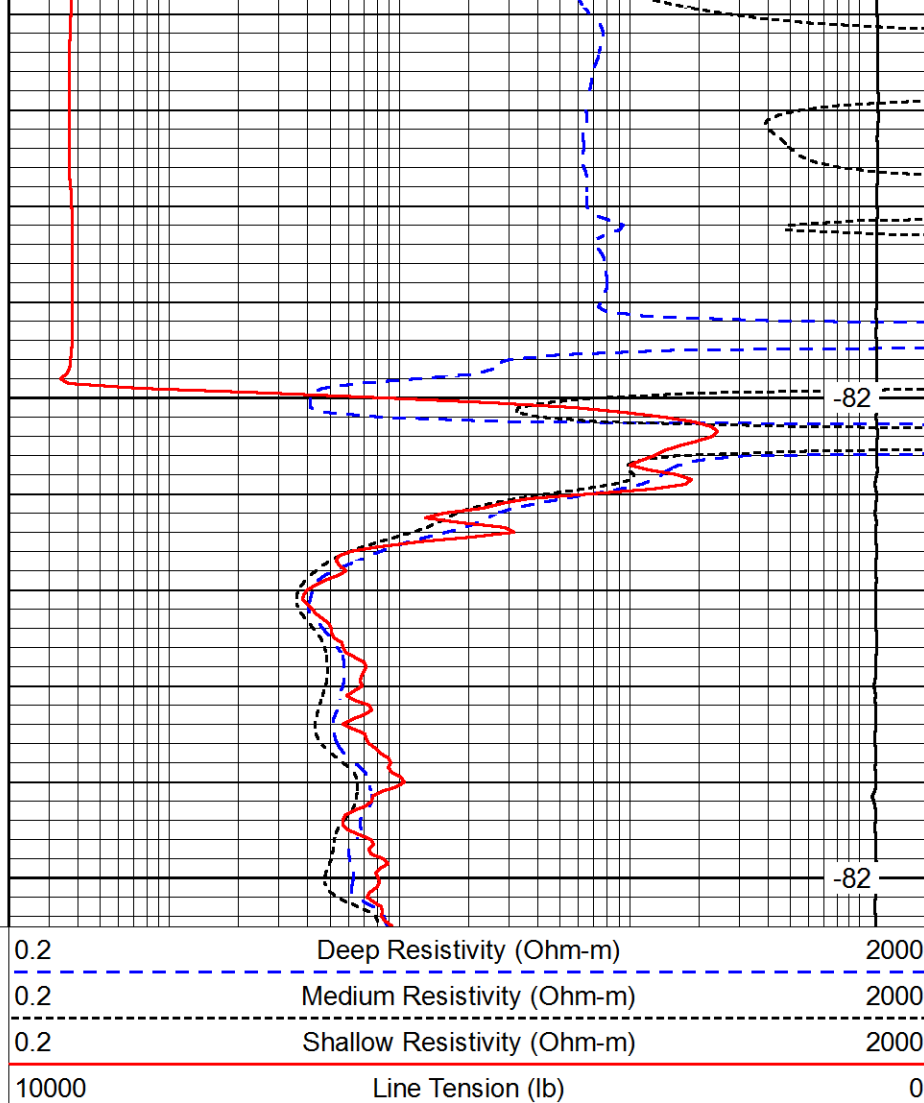






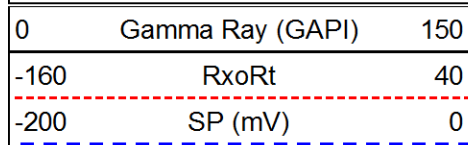
450

500

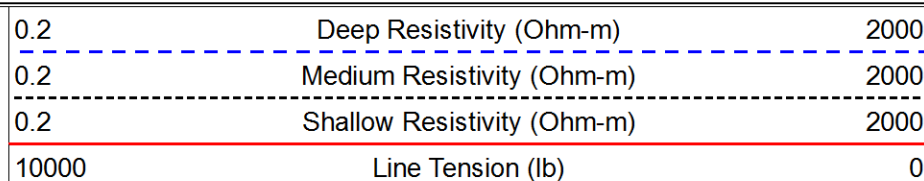


LSPD
(ft/min)

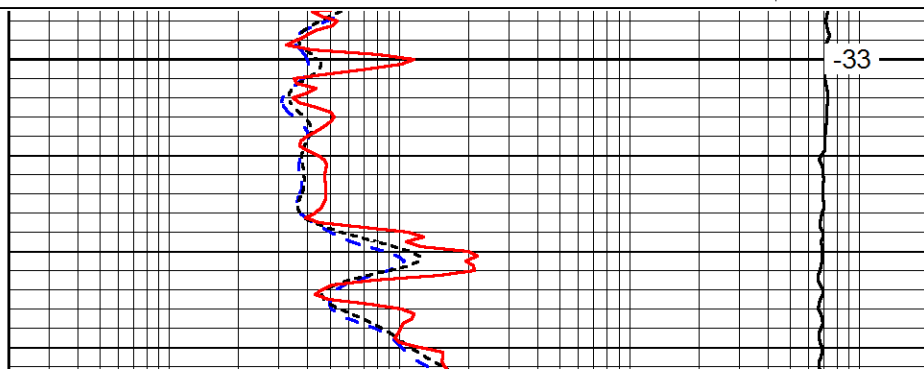
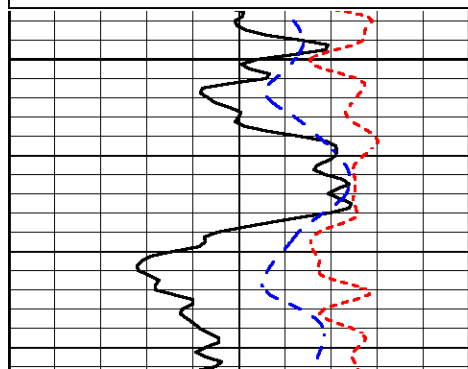
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 Charted by Depth in Feet scaled 1:240



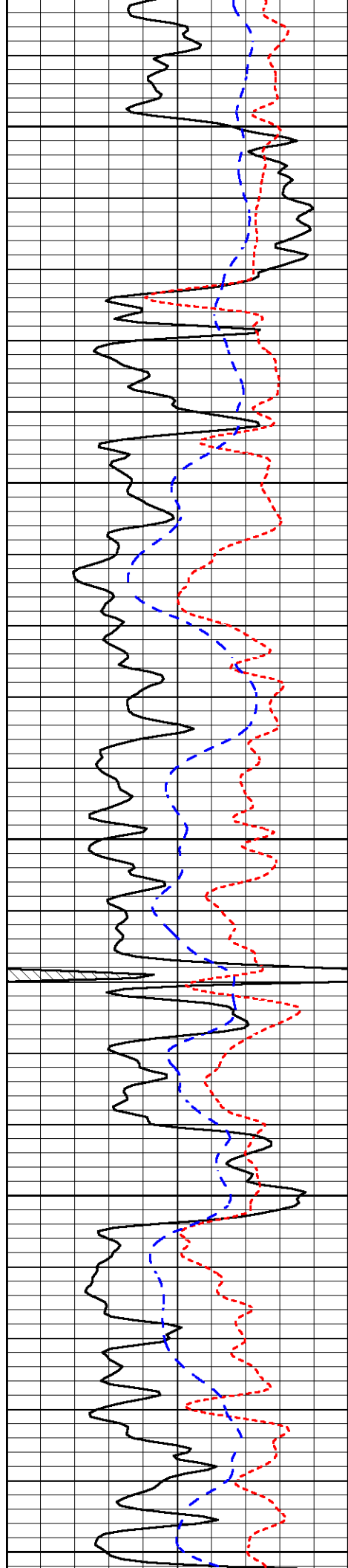
2400



LSPD
(ft/min)



-33



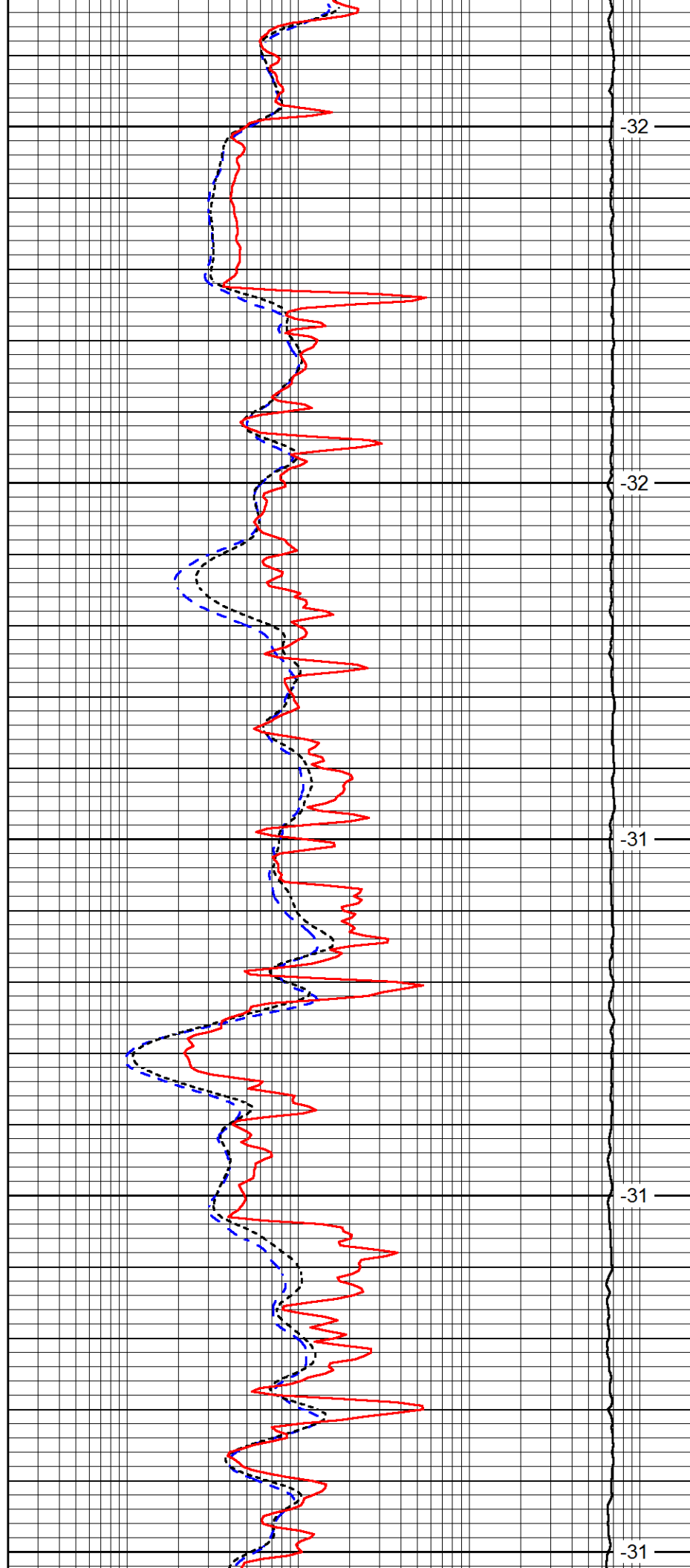
2450

2500

2550

2600

2650



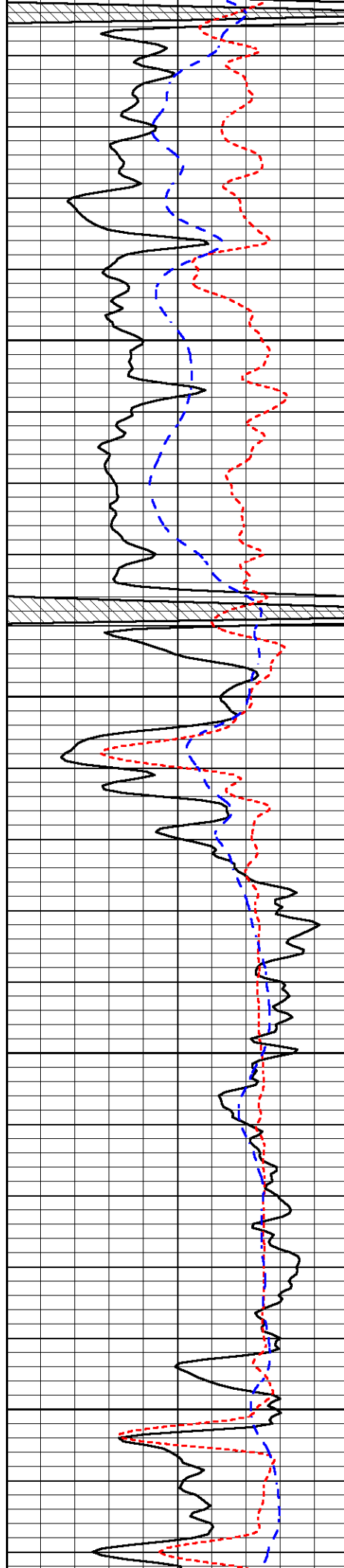
-32

-32

-31

-31

-31

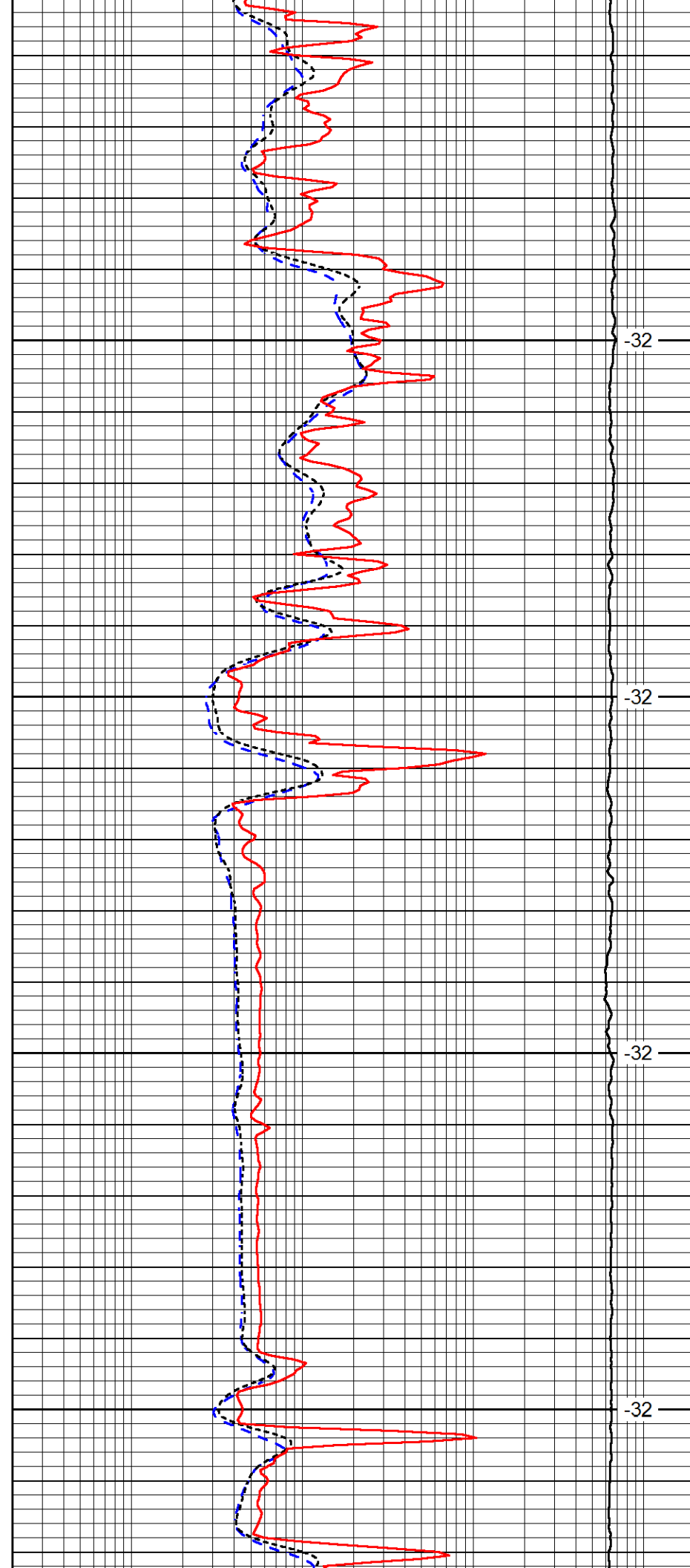


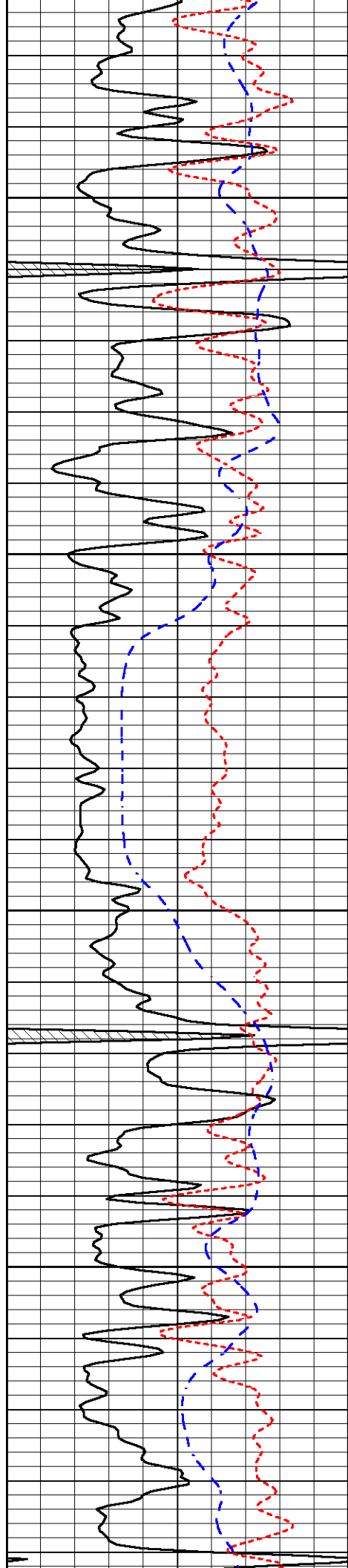
2700

2750

2800

2850



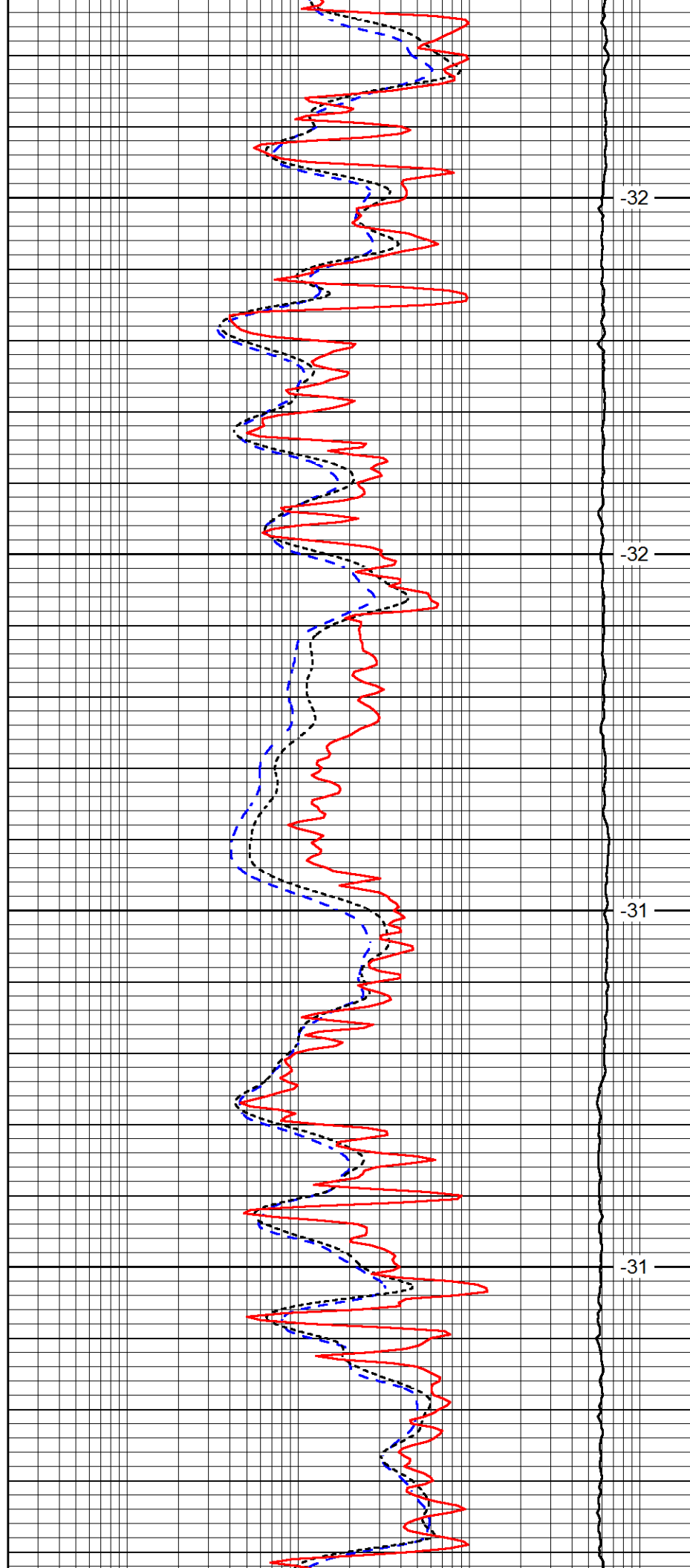


2900

2950

3000

3050

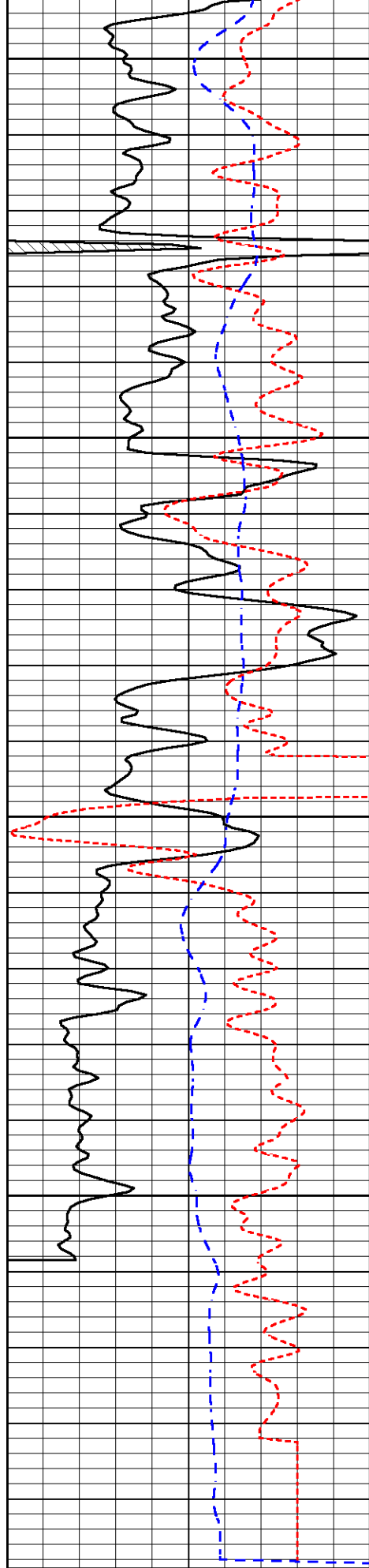


-32

-32

-31

-31



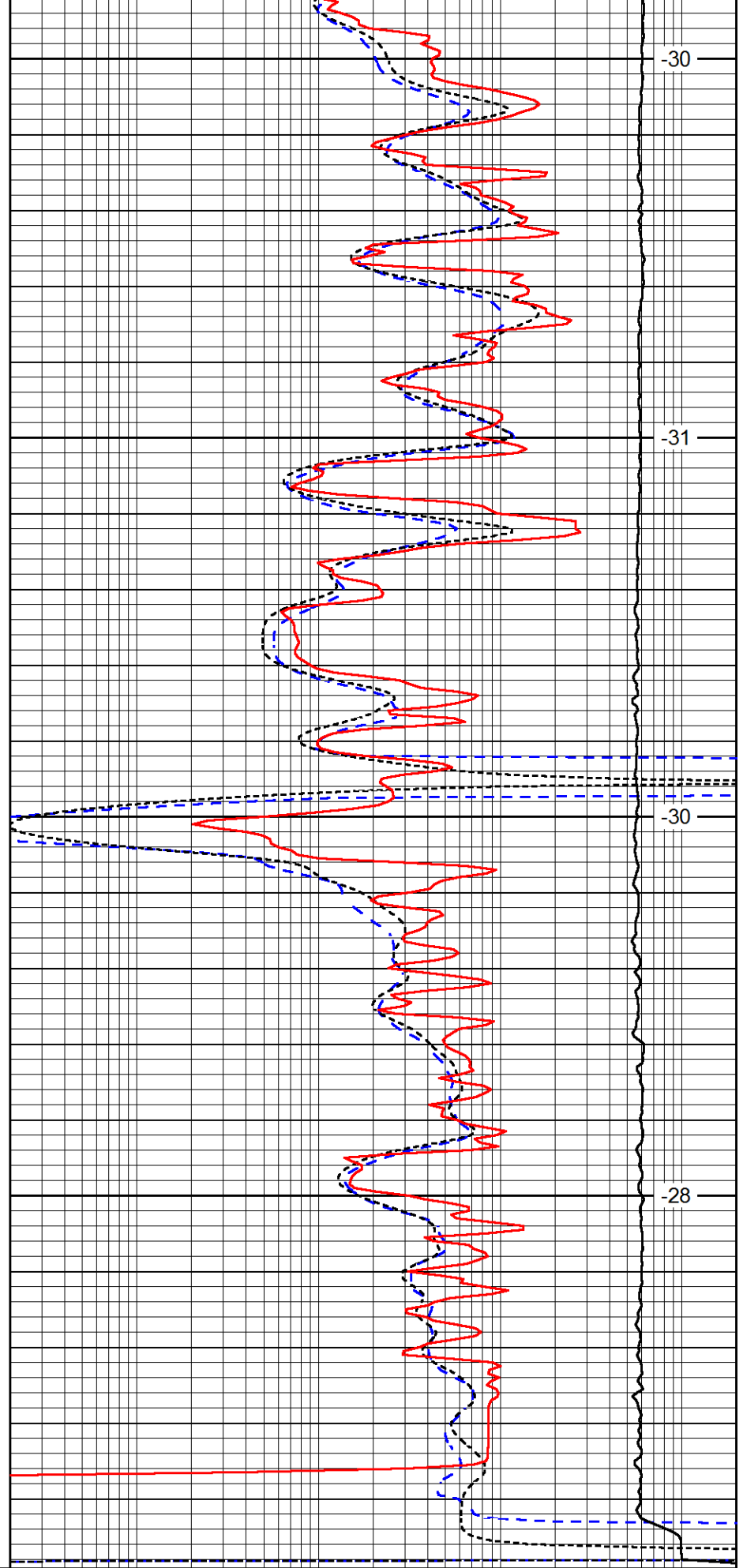
0	Gamma Ray (GAPI)	150
-160	RxoRt	40
-200	SP (mV)	0

3100

3150

3200

3250



-30

-31

-30

-28

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

		10000	Line Tension (lb)	0
				LSPD (ft/min)