



Dual Induction Log

DIGITAL LOG (785) 625-3858

API No.		Company Cholla Production, LLC	
15-165-21977-00-00		Well Seltmann #1-24	
Field N/A		County Rush State Kansas	
Location 2290' FSL & 1250' FWL		Other Services CNL/CDL MEL/BHCS	
Sec: 24 Twp: 19S Rge: 20W		Elevation	
Permanent Datum Ground Level		K.B. 2180	
Log Measured From Kelly Bushing		D.F. 2172	
Drilling Measured From Kelly Bushing		G.L. 2172	
Date 6/11/2012			
Run Number	One		
Depth Driller	4515		
Depth Logger	4515		
Bottom Logged Interval	4514		
Top Log Interval	600		
Casing Driller	8.625 @ 604		
Casing Logger	604		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	7700		
Density / Viscosity	9.7 54		
pH / Fluid Loss	10.0 10.4		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.44 @ 70		
Rmf @ Meas. Temp	0.33 @ 70		
Rmc @ Meas. Temp	0.60 @ 70		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.25 @ 123		
Operating Rig Time	5 Hours		
Max Rec. Temp. F	123		
Equipment Number	91		
Location	Hays		
Recorded By	D. Schmidt		
Witnessed By	Clayton Erickson		

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, 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. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Thank you for using Log-Tech, Inc.
(785) 625-3858

Nekoma,
4 W to 140th, 5 S to V rd, 1 E to 150th, 1 S to W rd,
1/4 E, N into

Charted by: Depth in Feet scaled 1:600

0 Gamma Ray (GAPI) 150

0 Shallow Resistivity (Ohm-m) 50

LSPD
(ft/min)

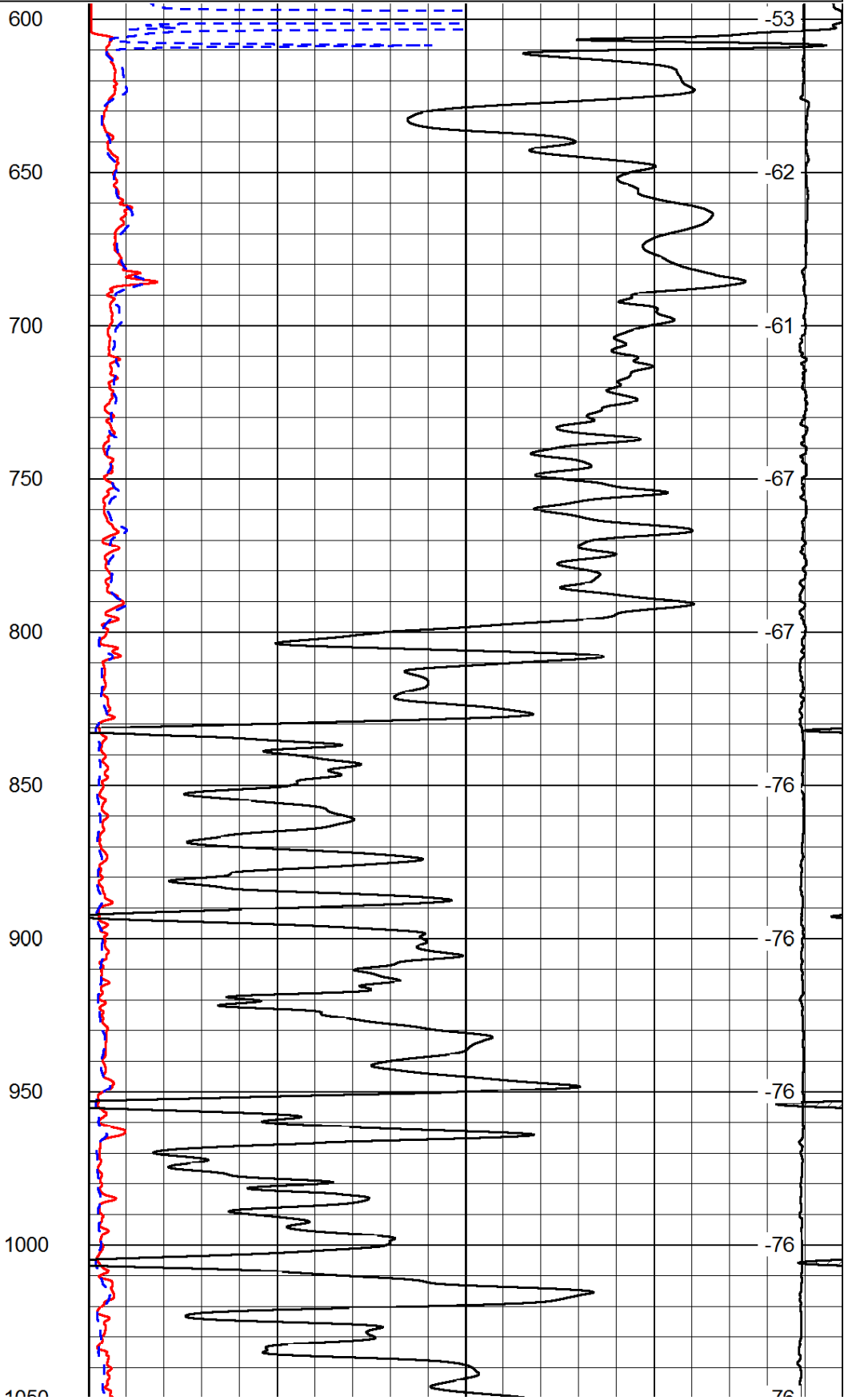
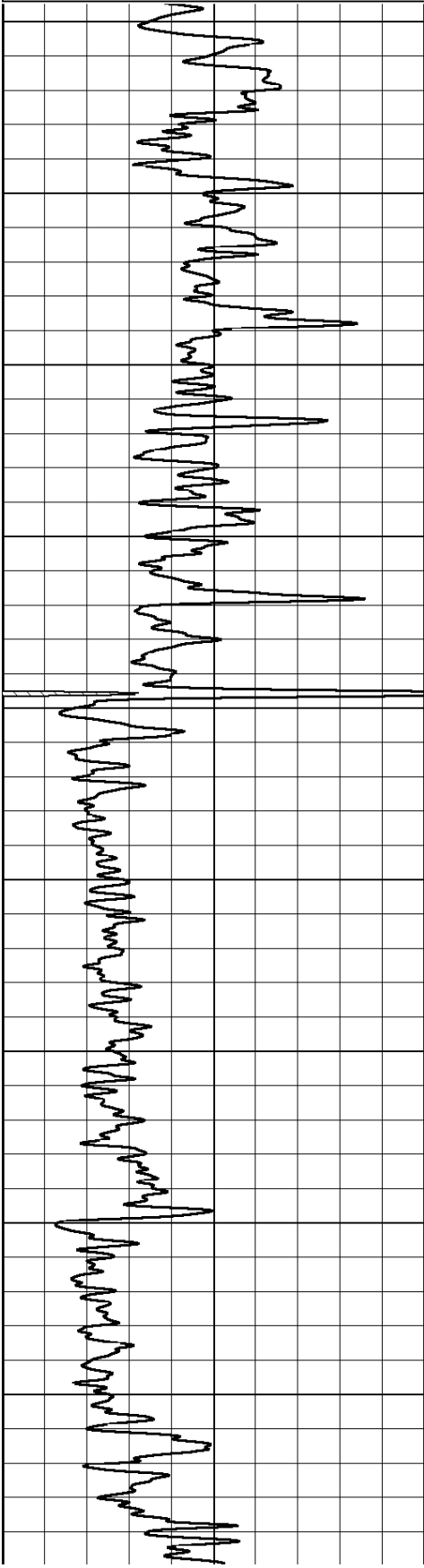
0 Deep Resistivity (Ohm-m) 50

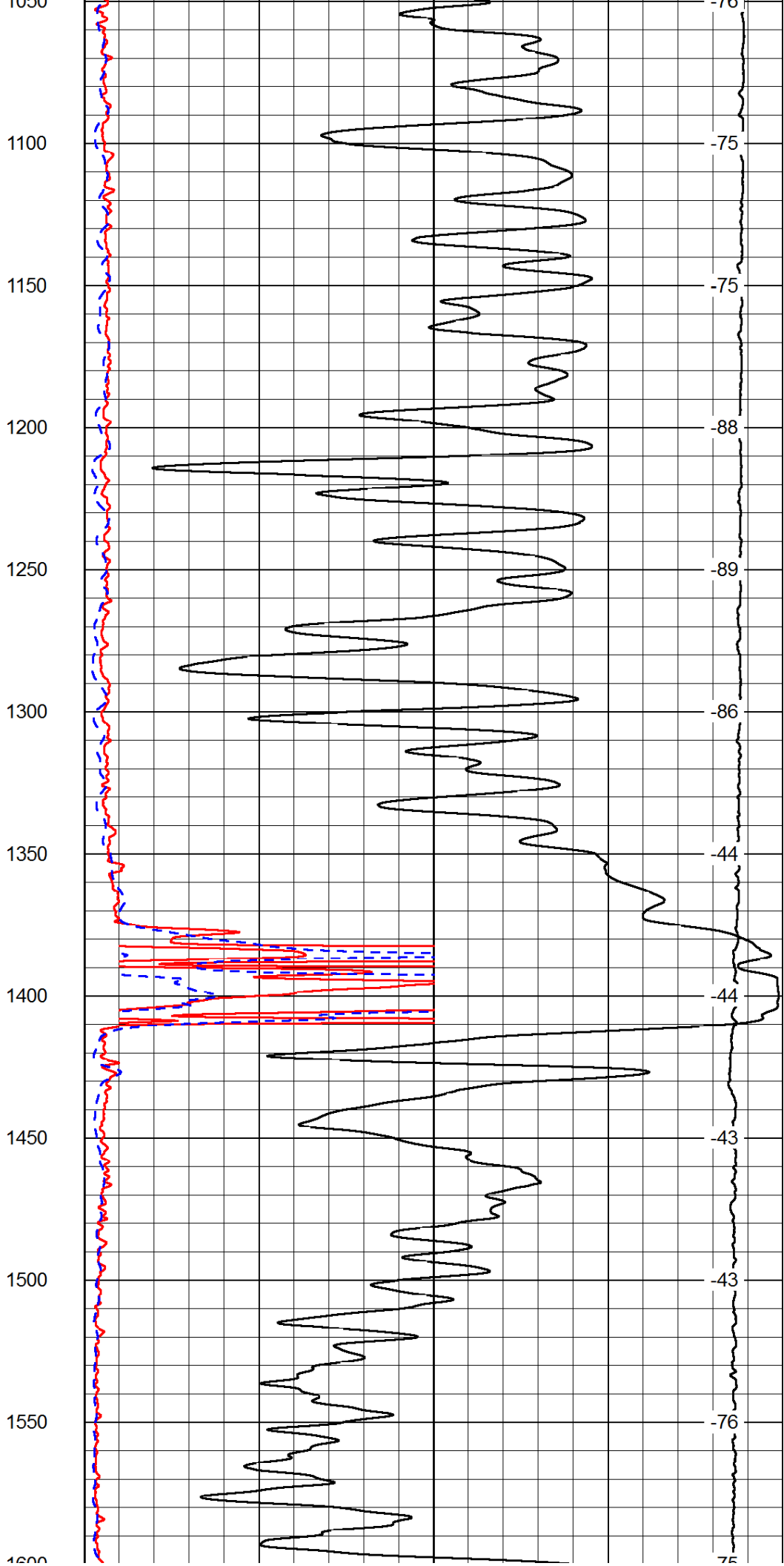
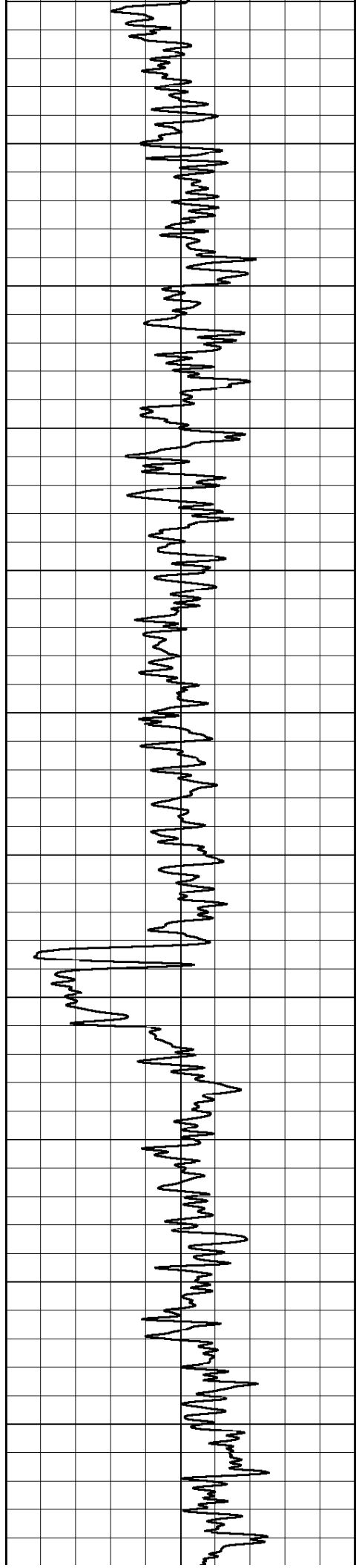
1000 Conductivity (mmho/m) 0

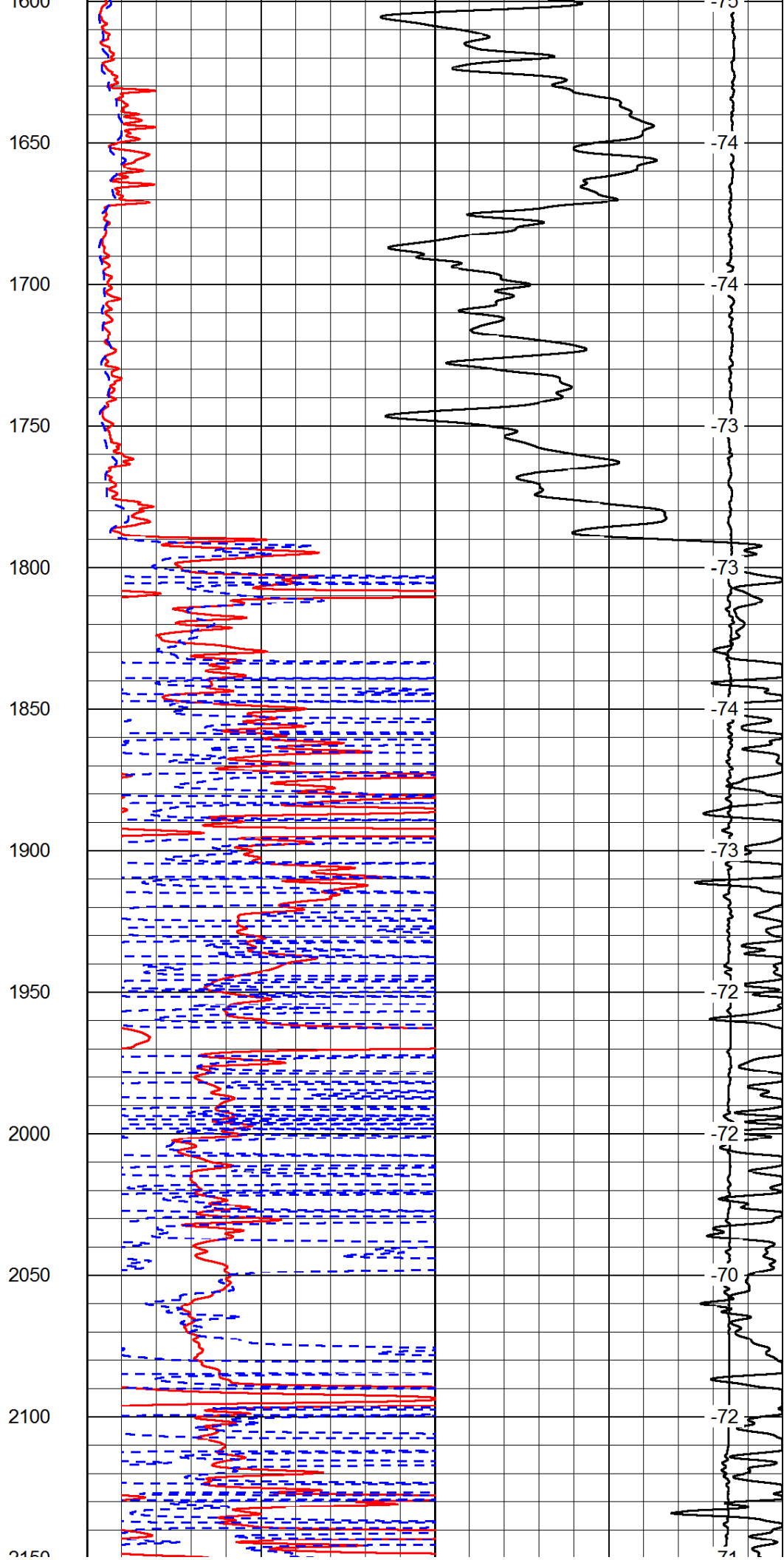
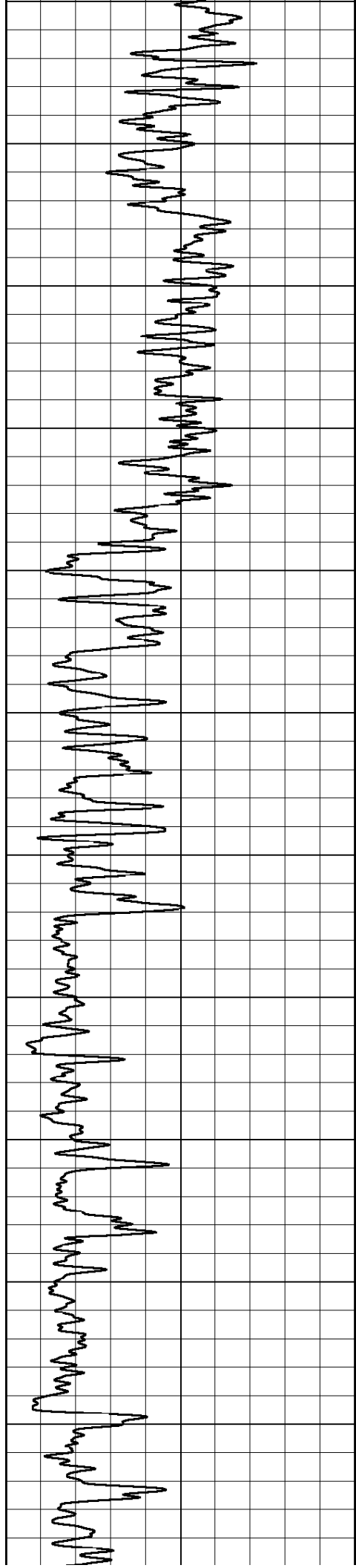
15000 Line Tension (lb) 0

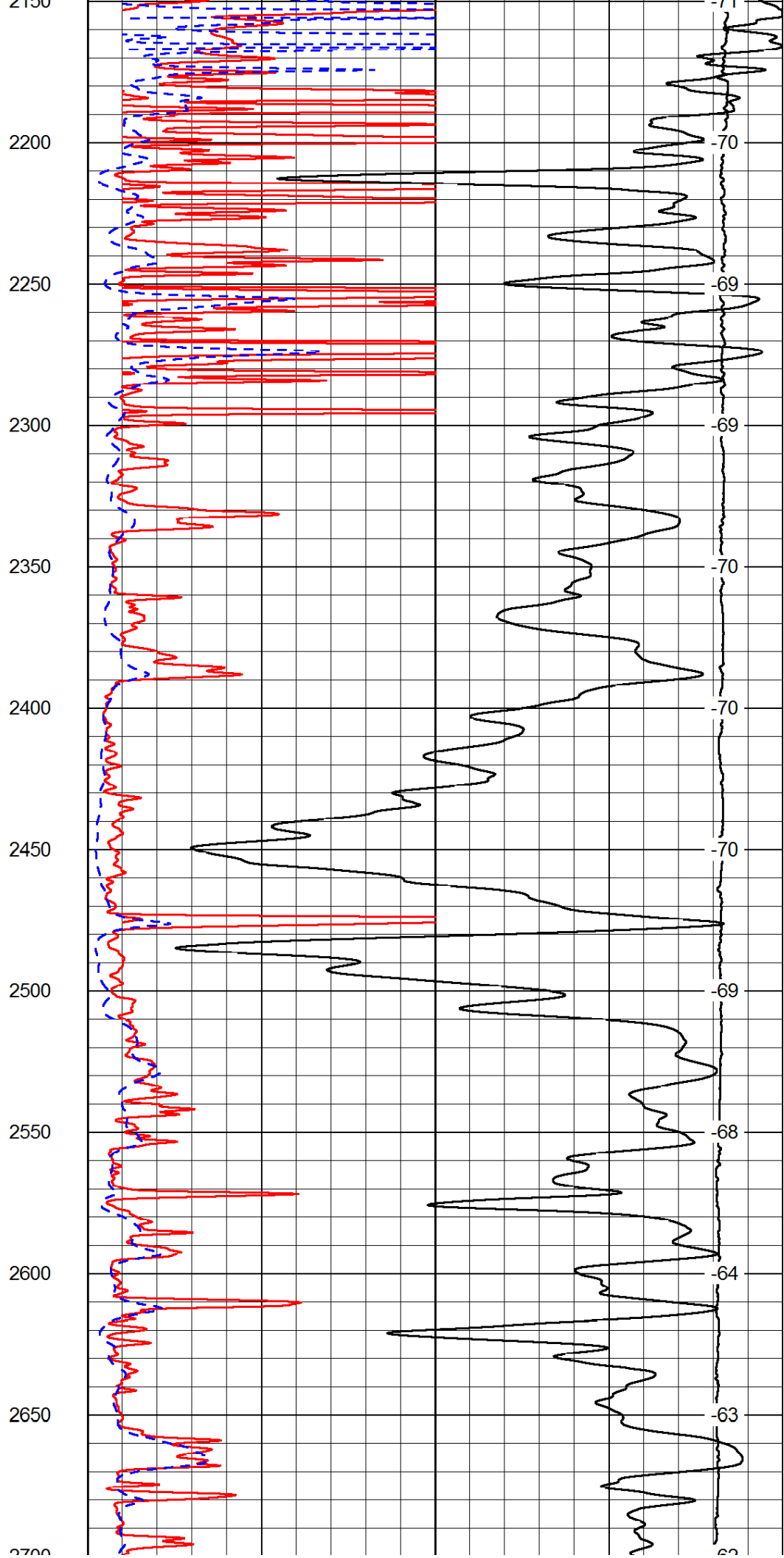
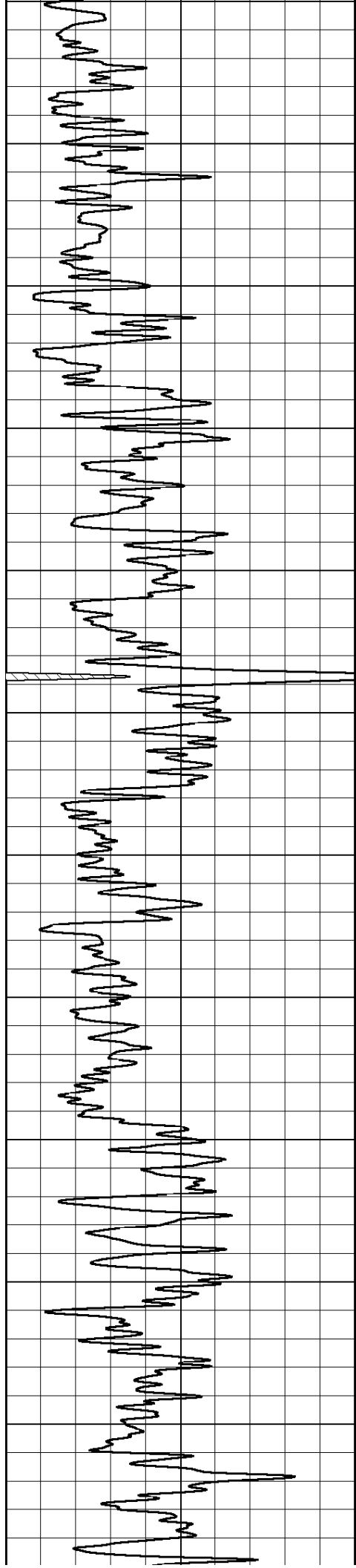
Shallow Resistivity
50 (Ohm-m) 500

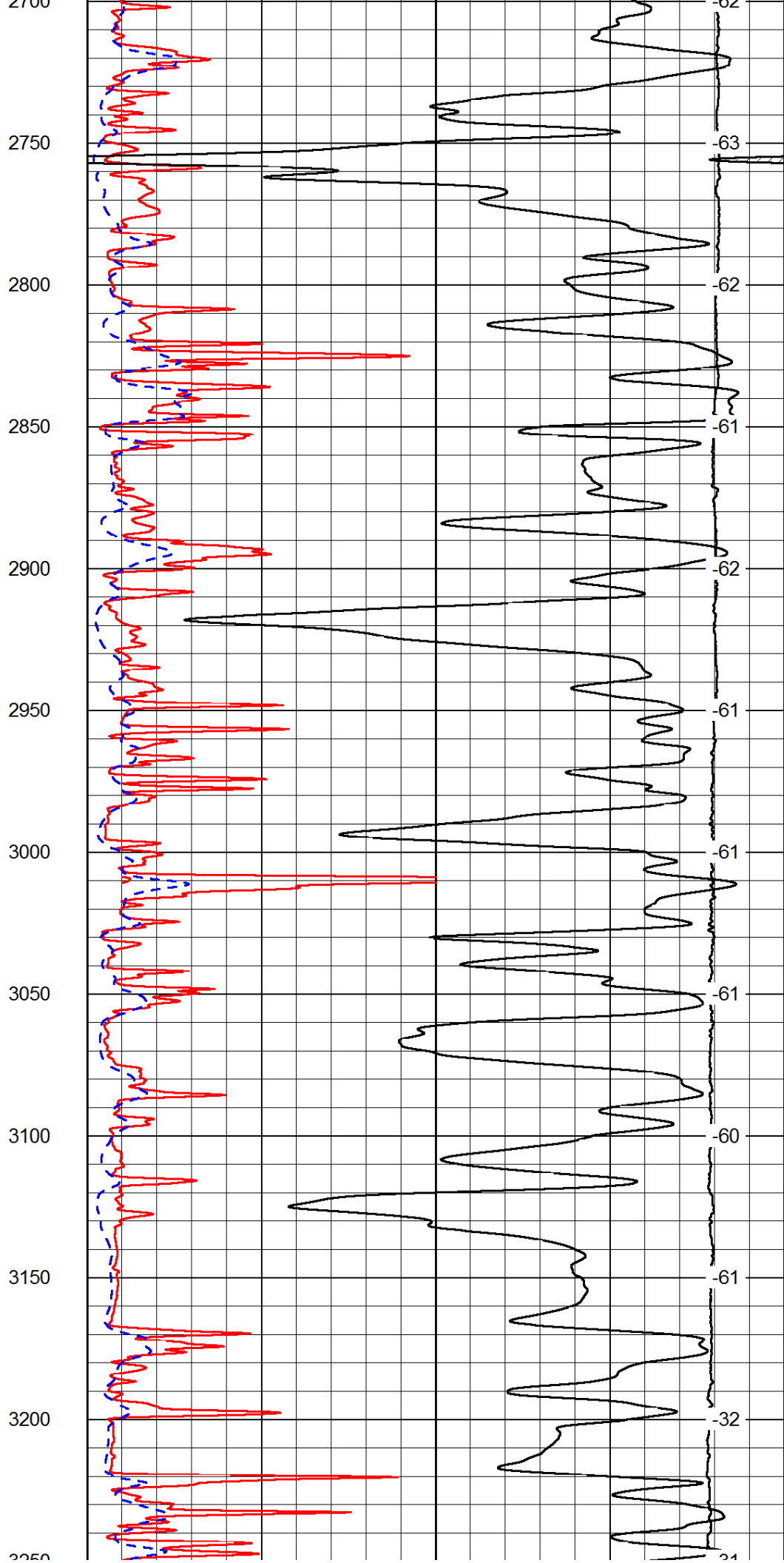
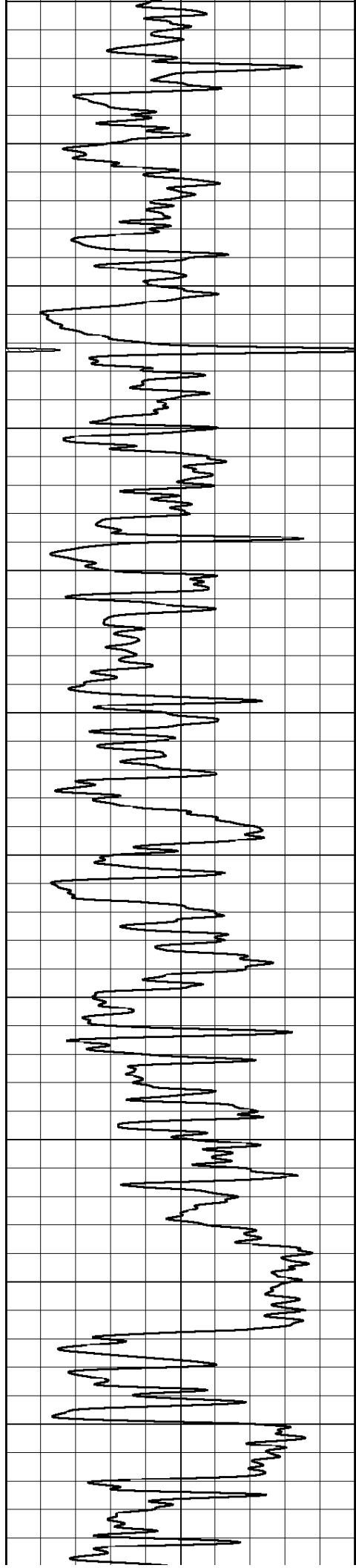
50 Deep Resistivity (Ohm-m) 500

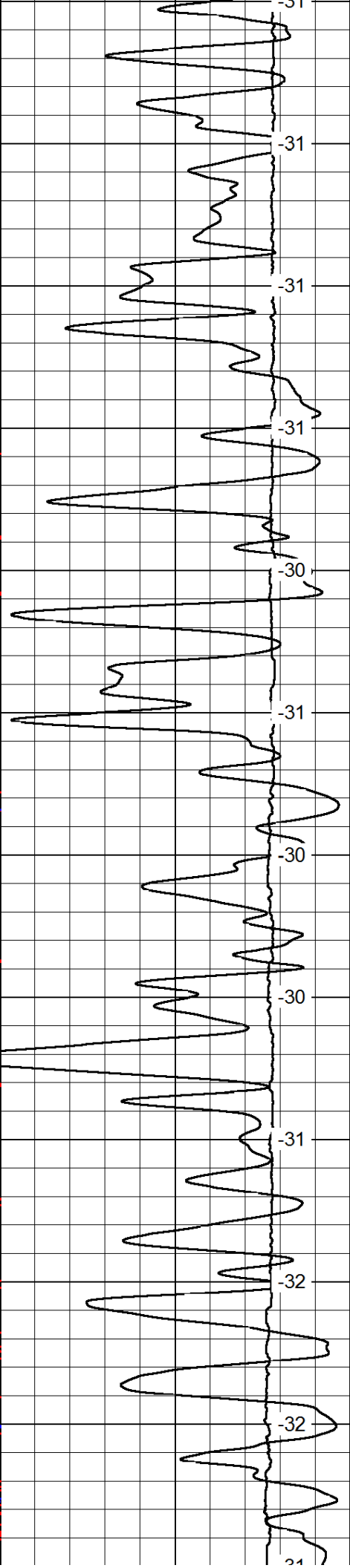
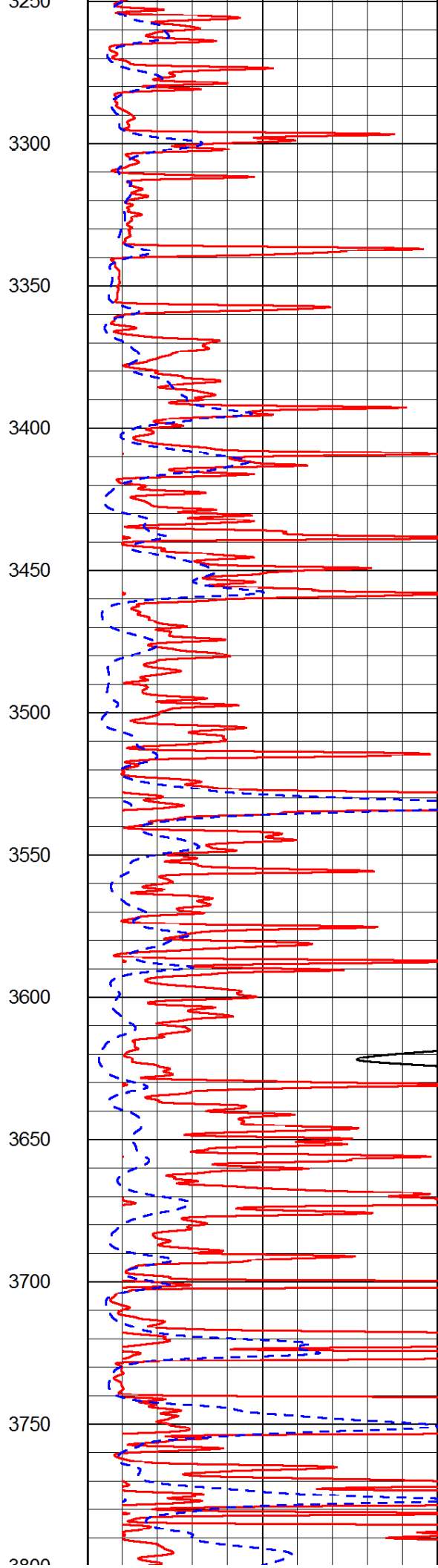
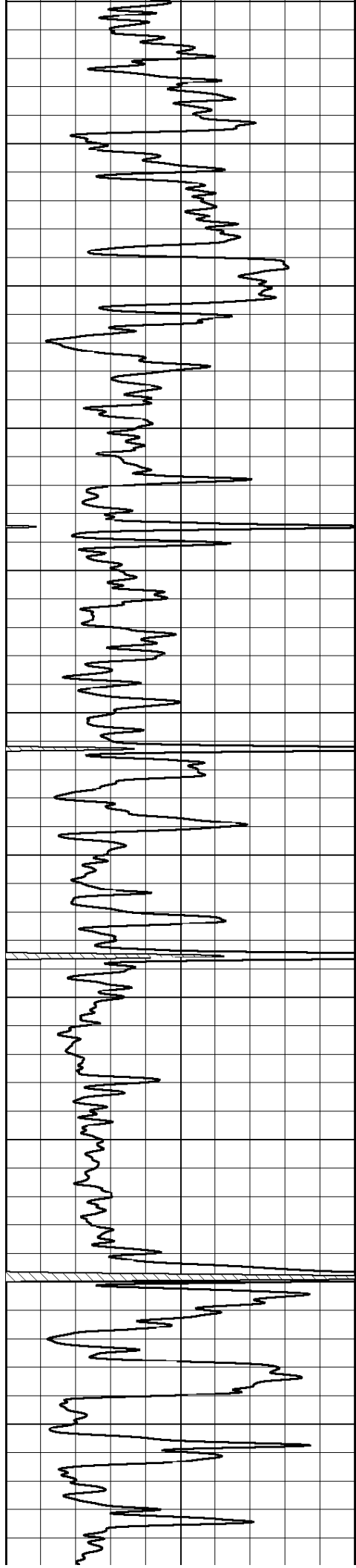


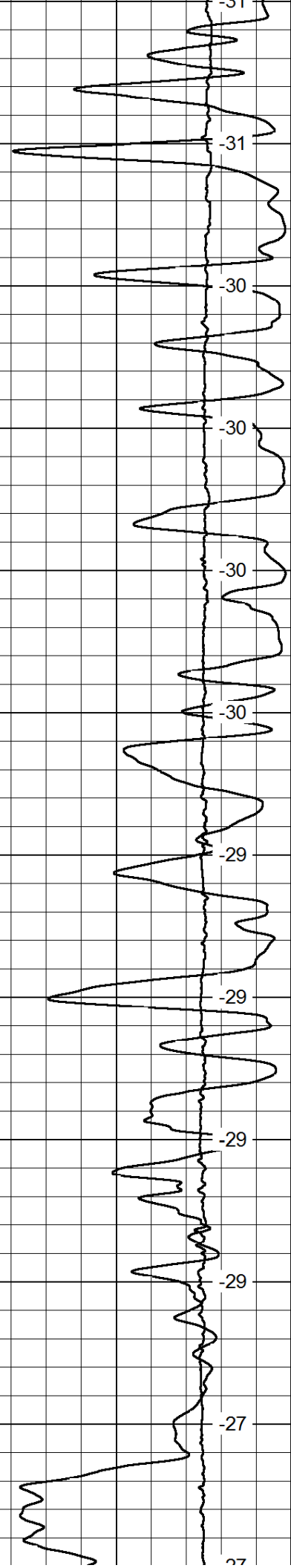
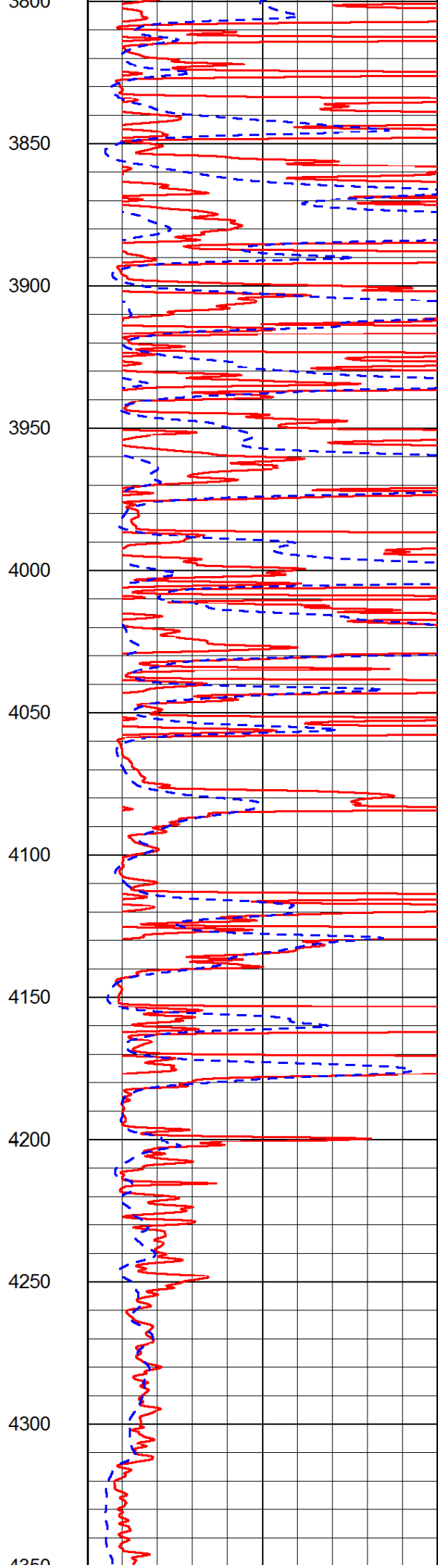
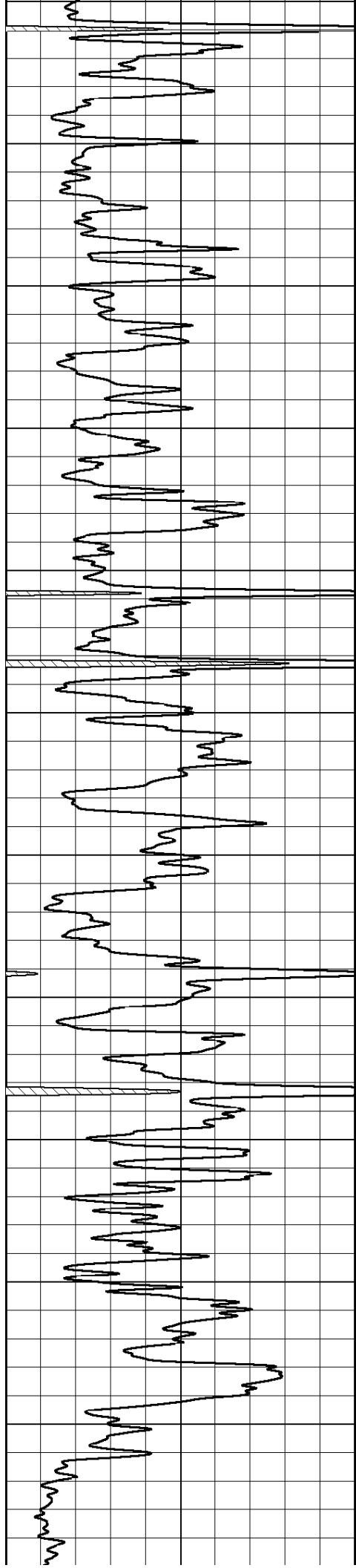


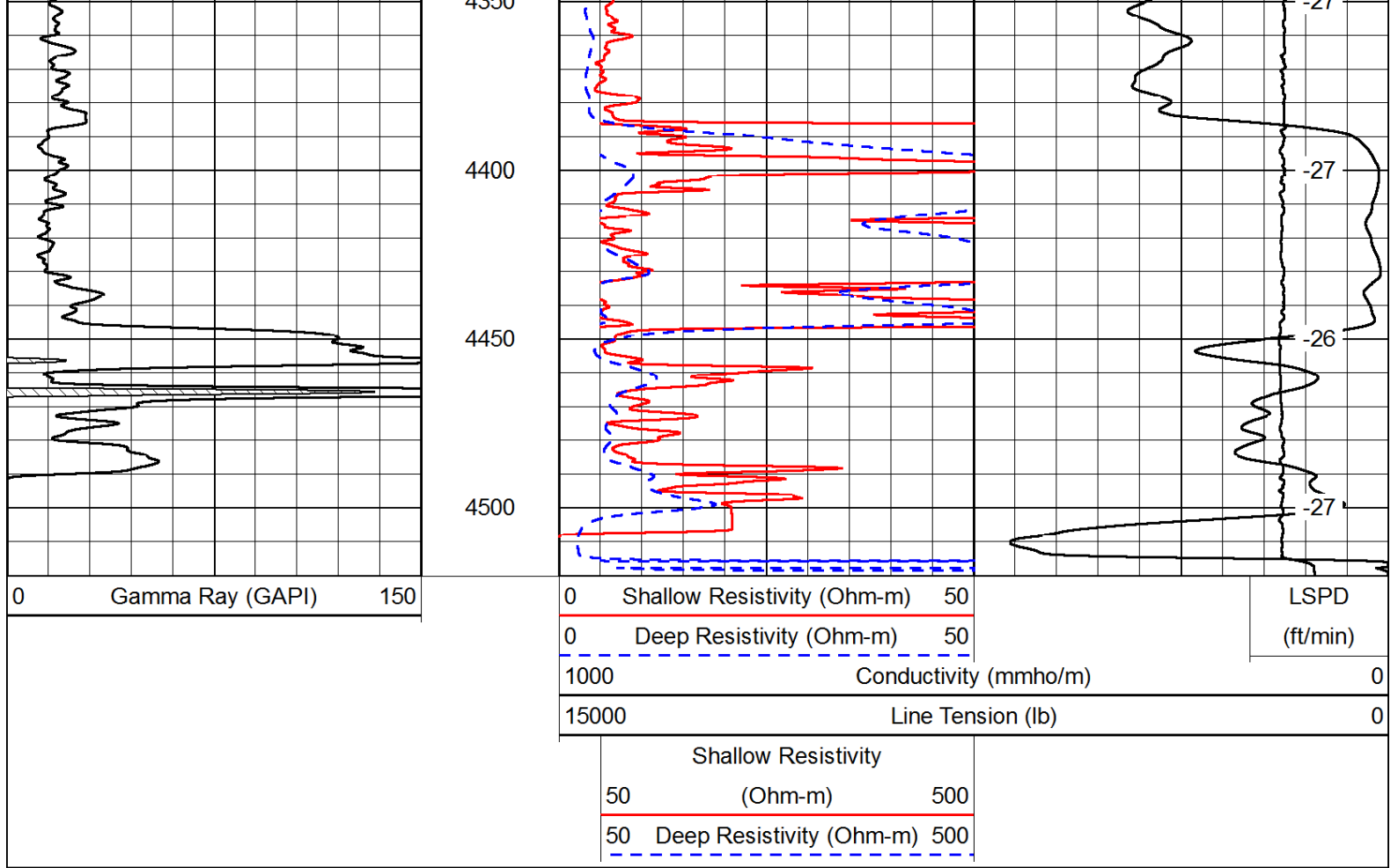




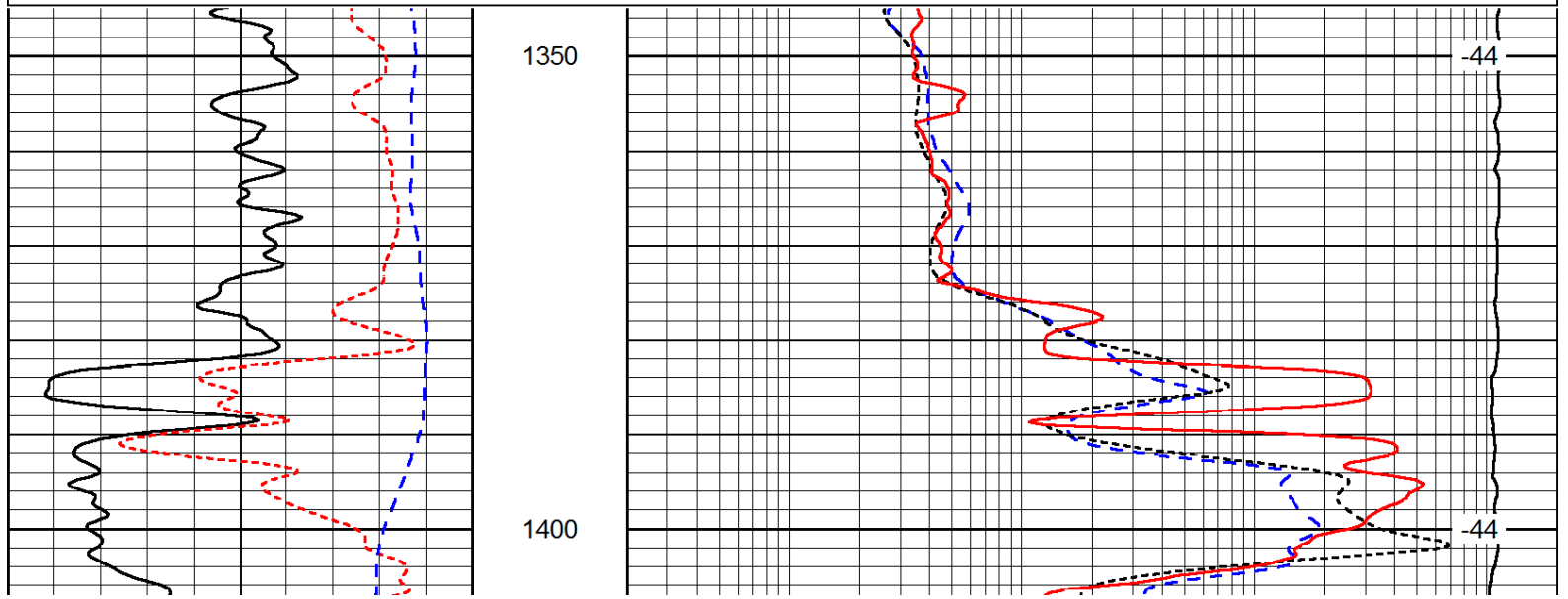
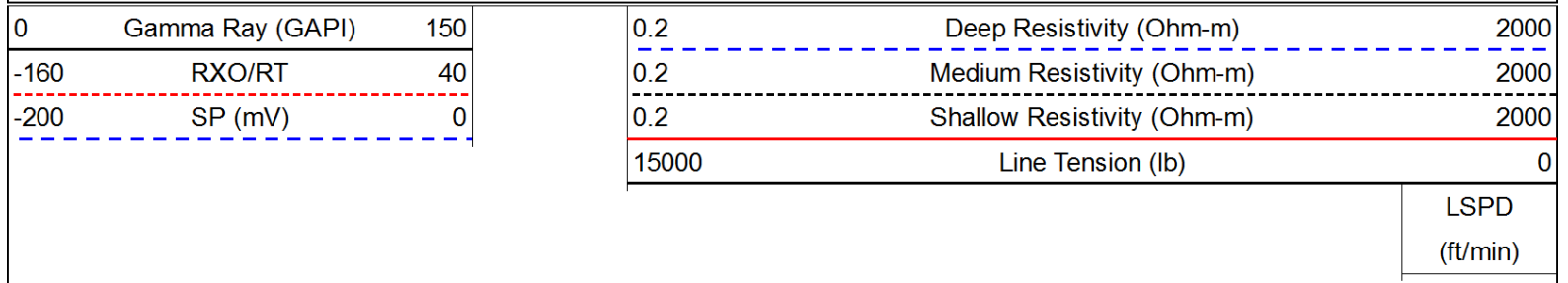


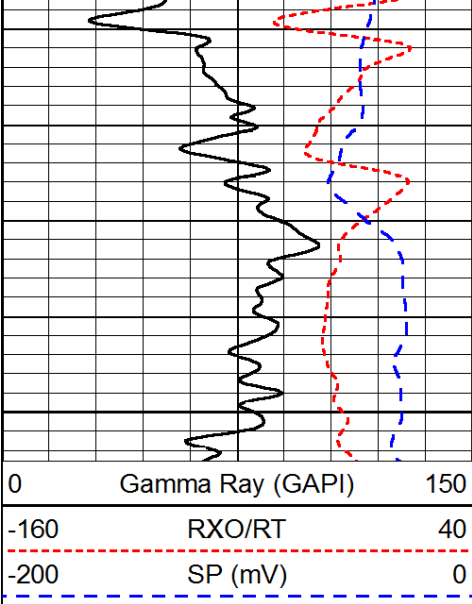




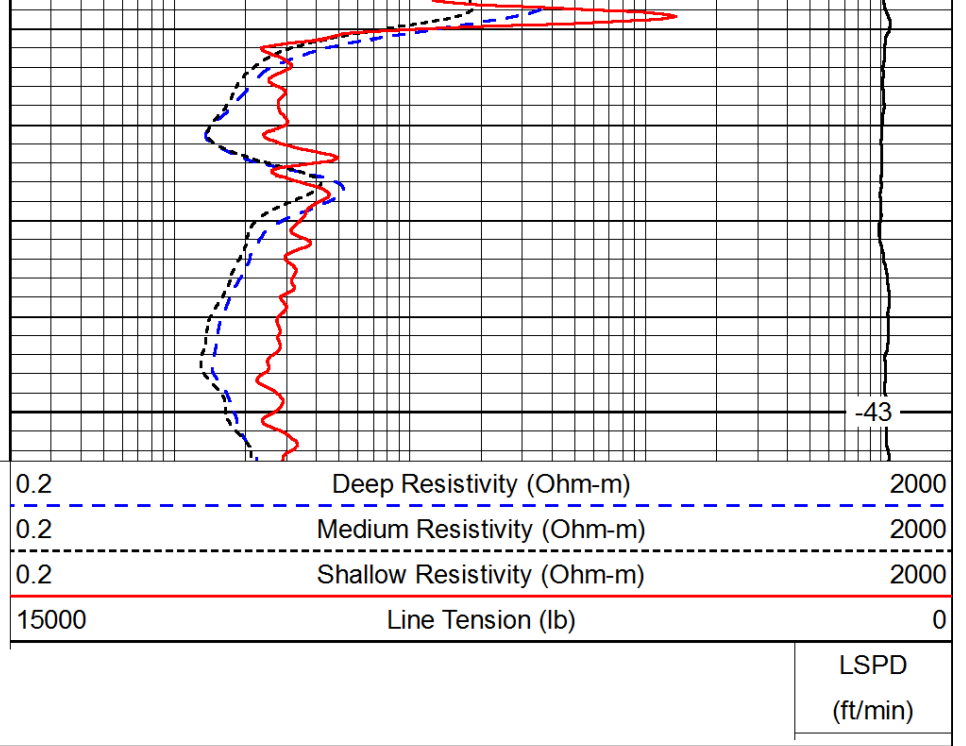


Database File: cholla_061112.db
 Dataset Pathname: stack/pass4.1
 Presentation Format: dil
 Dataset Creation: Mon Jun 11 17:52:44 2012 by Calc Open-Cased 081212
 Charted by: Depth in Feet scaled 1:240

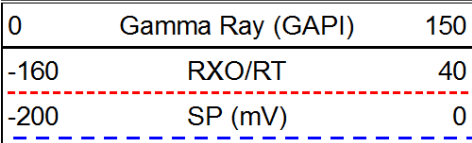




1450

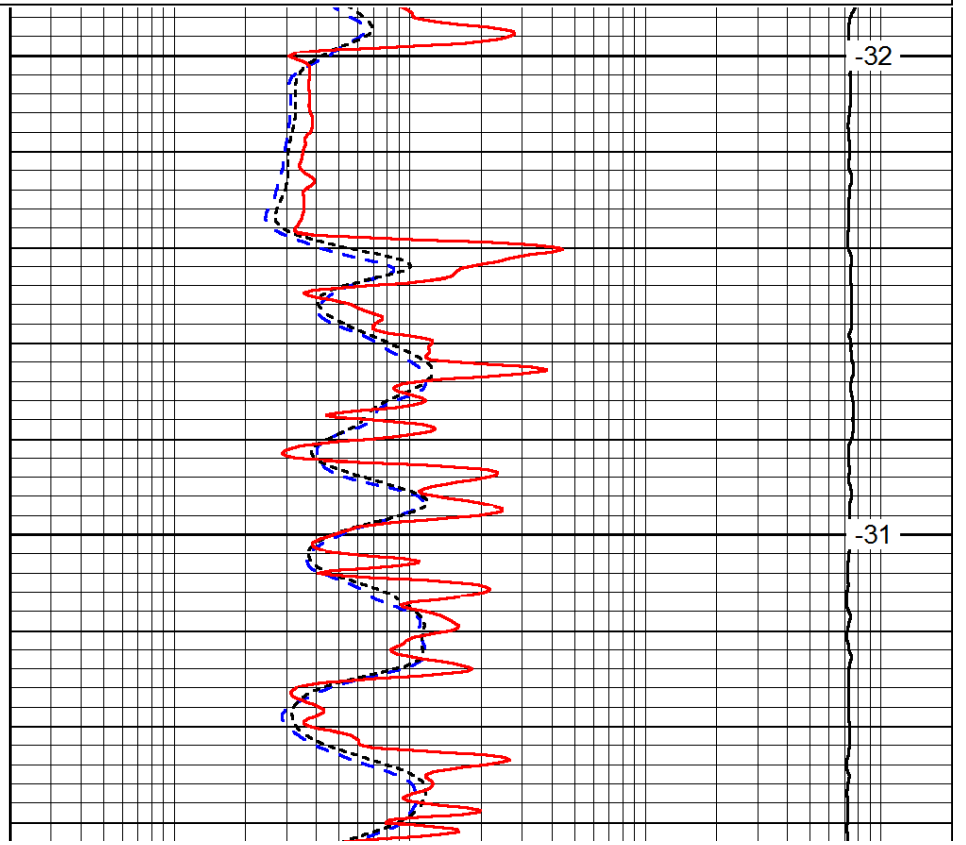
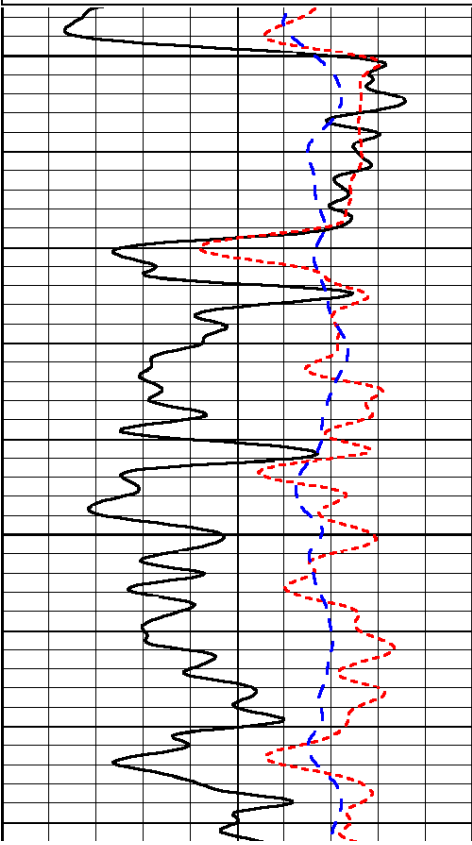
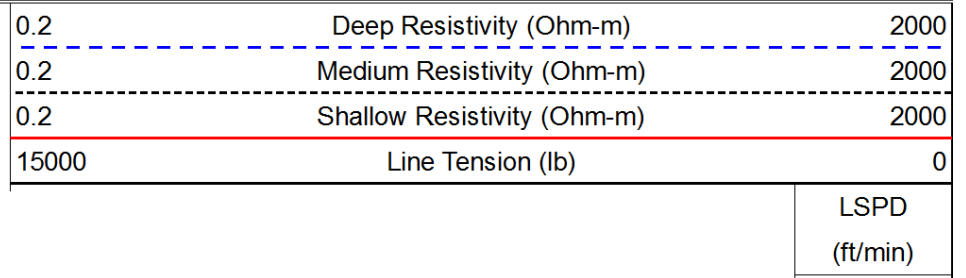


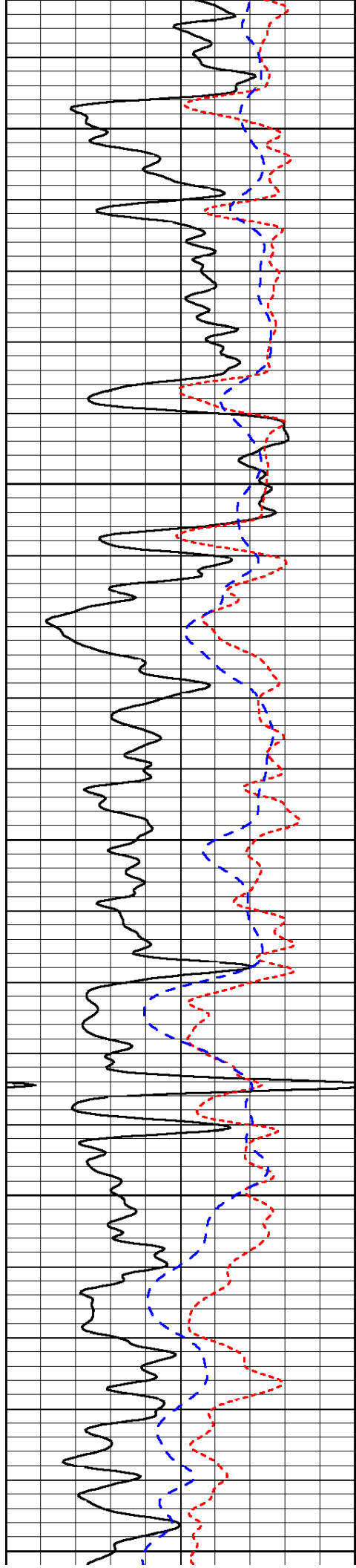
Database File: cholla_061112.db
 Dataset Pathname: stack/pass4.1
 Presentation Format: dil
 Dataset Creation: Mon Jun 11 17:52:44 2012 by Calc Open-Cased 081212
 Charted by: Depth in Feet scaled 1:240



3200

3250





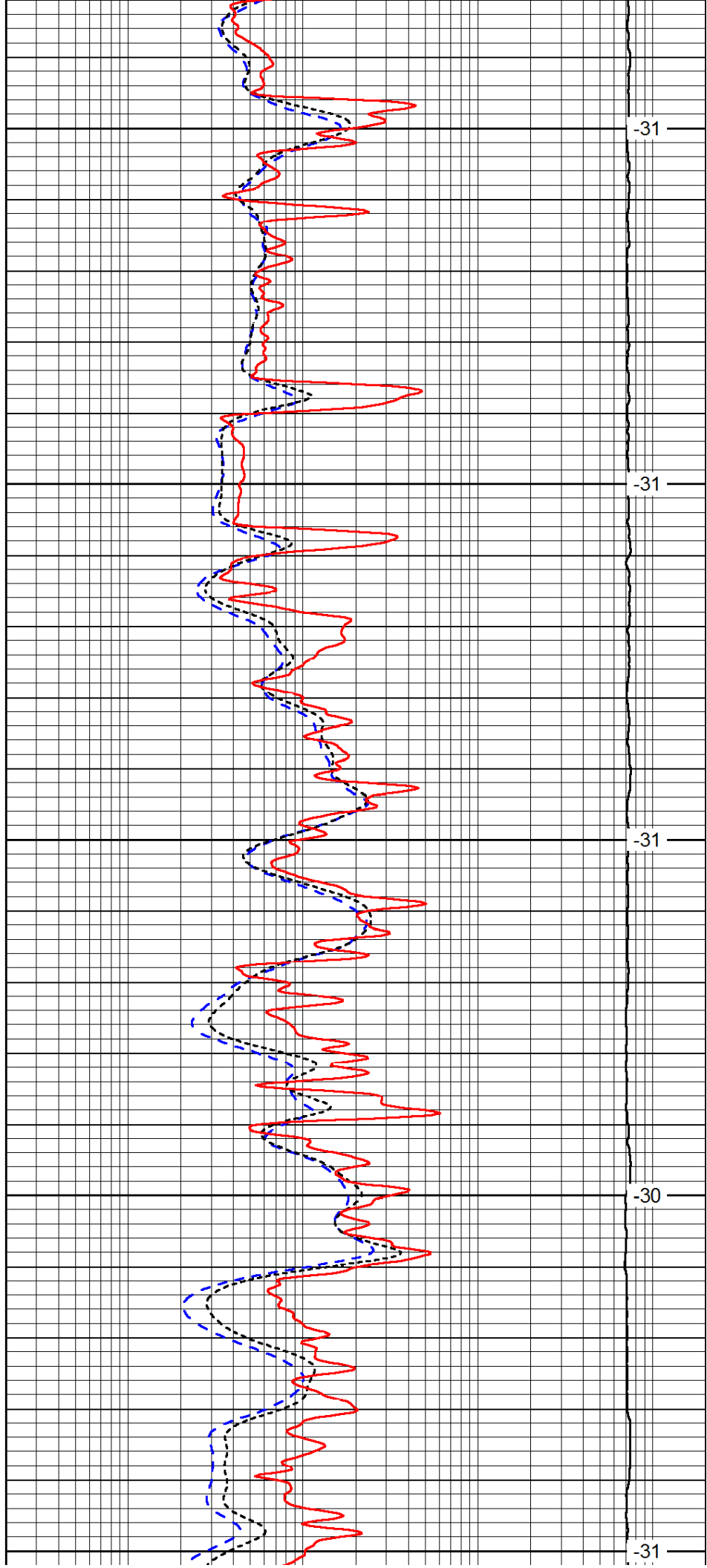
3300

3350

3400

3450

3500



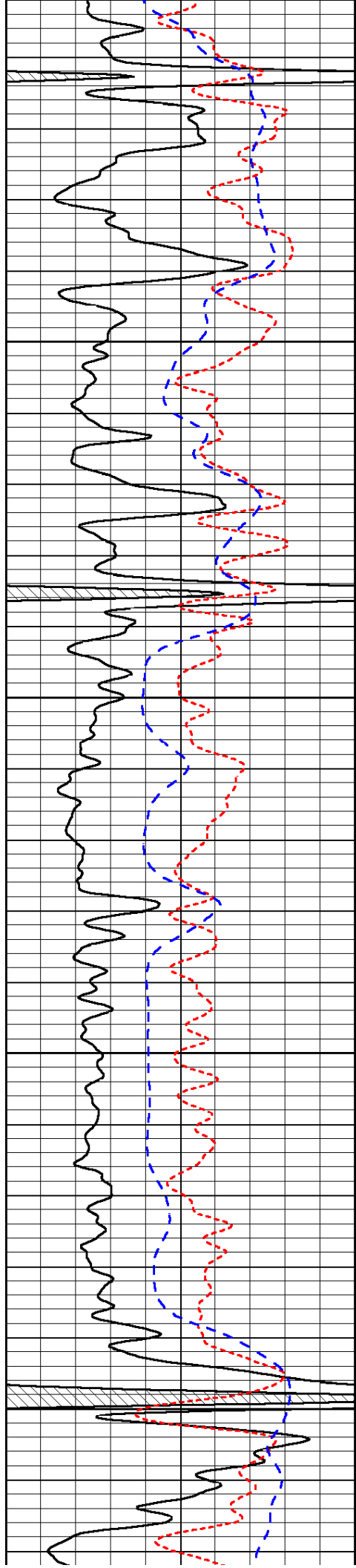
-31

-31

-31

-30

-31

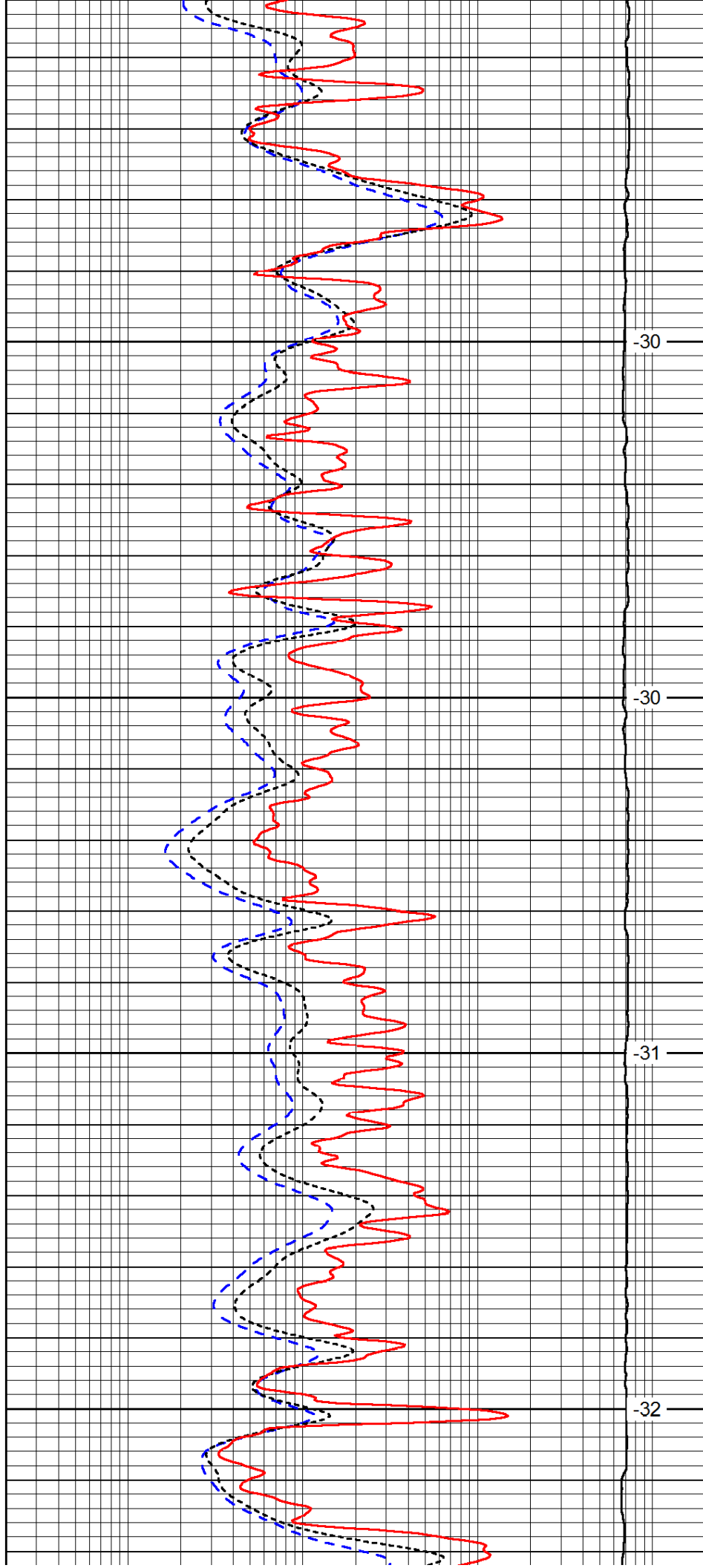


3550

3600

3650

3700

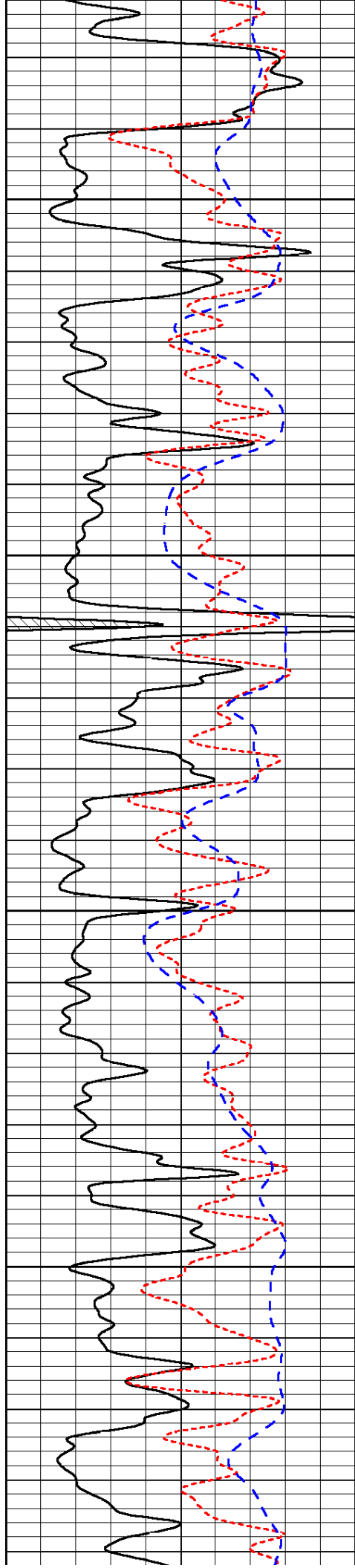


-30

-30

-31

-32

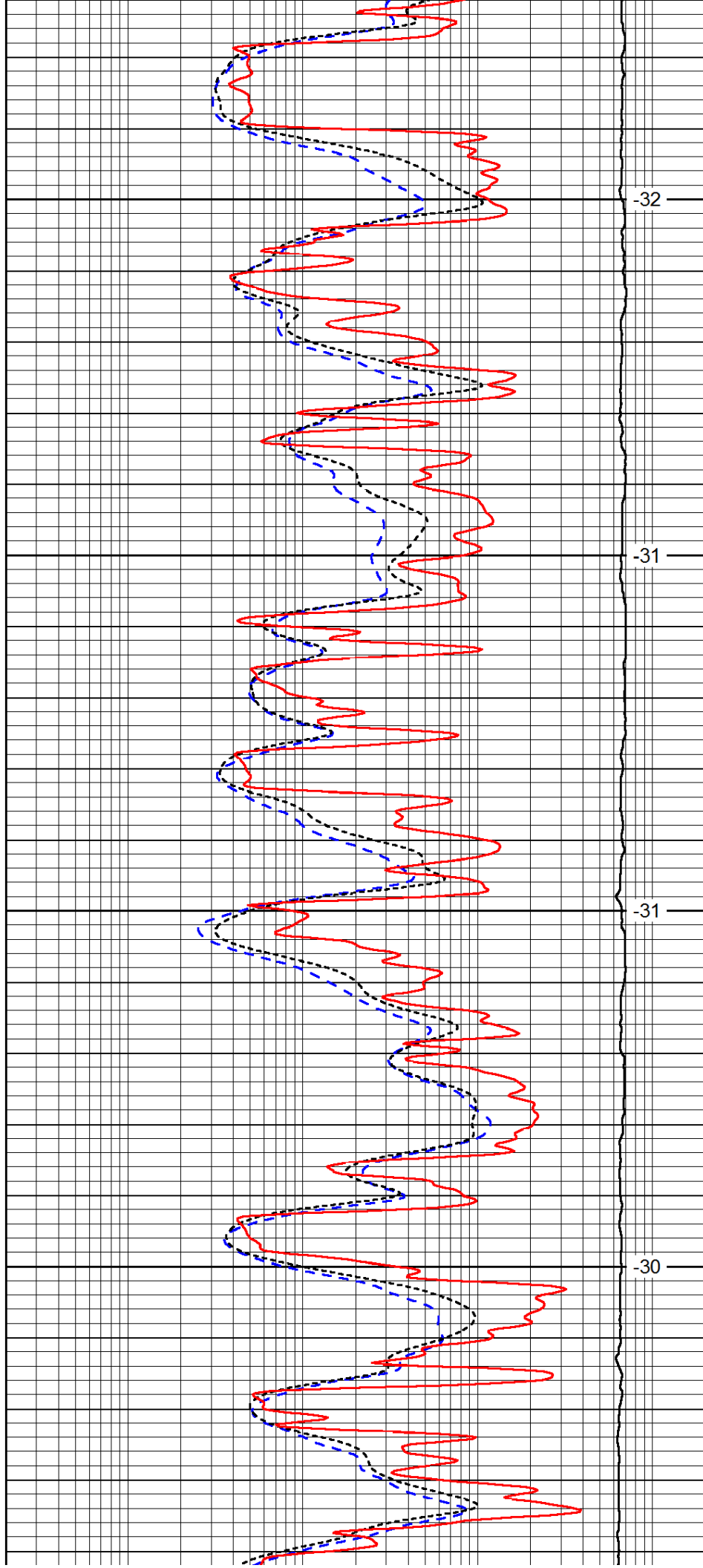


3750

3800

3850

3900

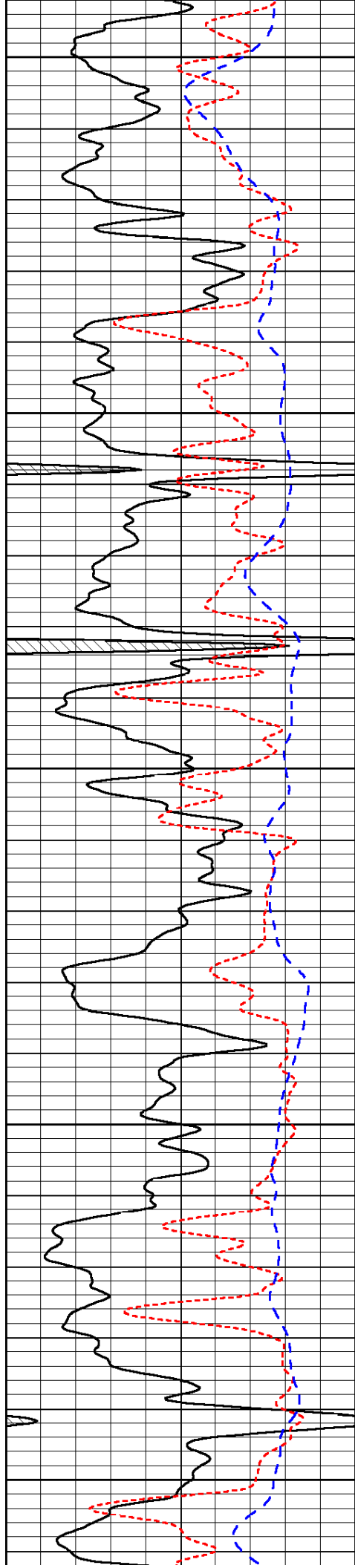


-32

-31

-31

-30



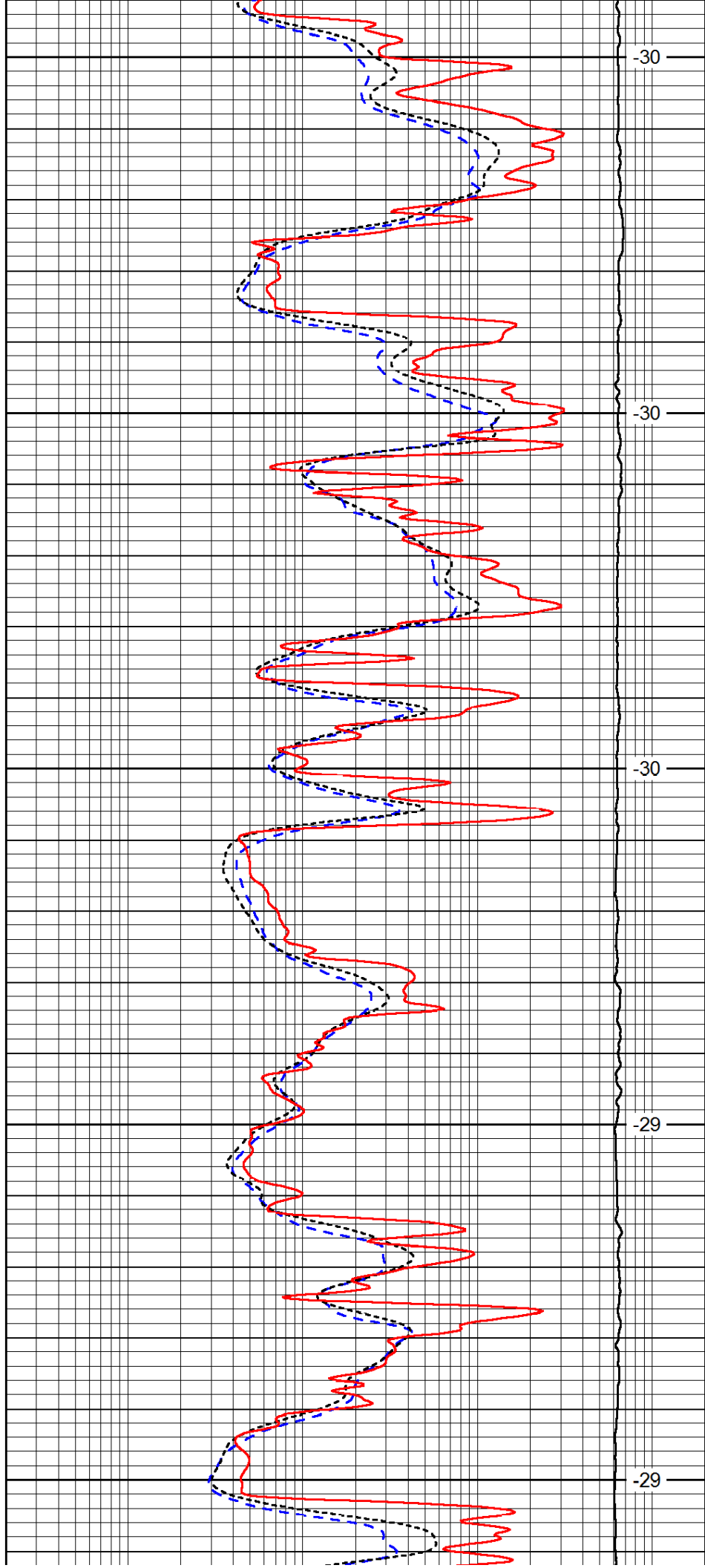
3950

4000

4050

4100

4150



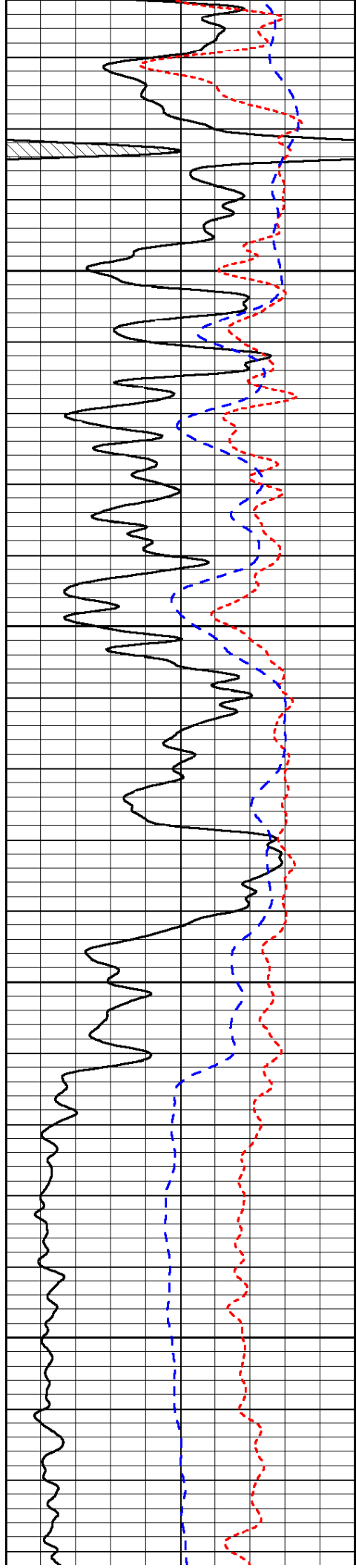
-30

-30

-30

-29

-29

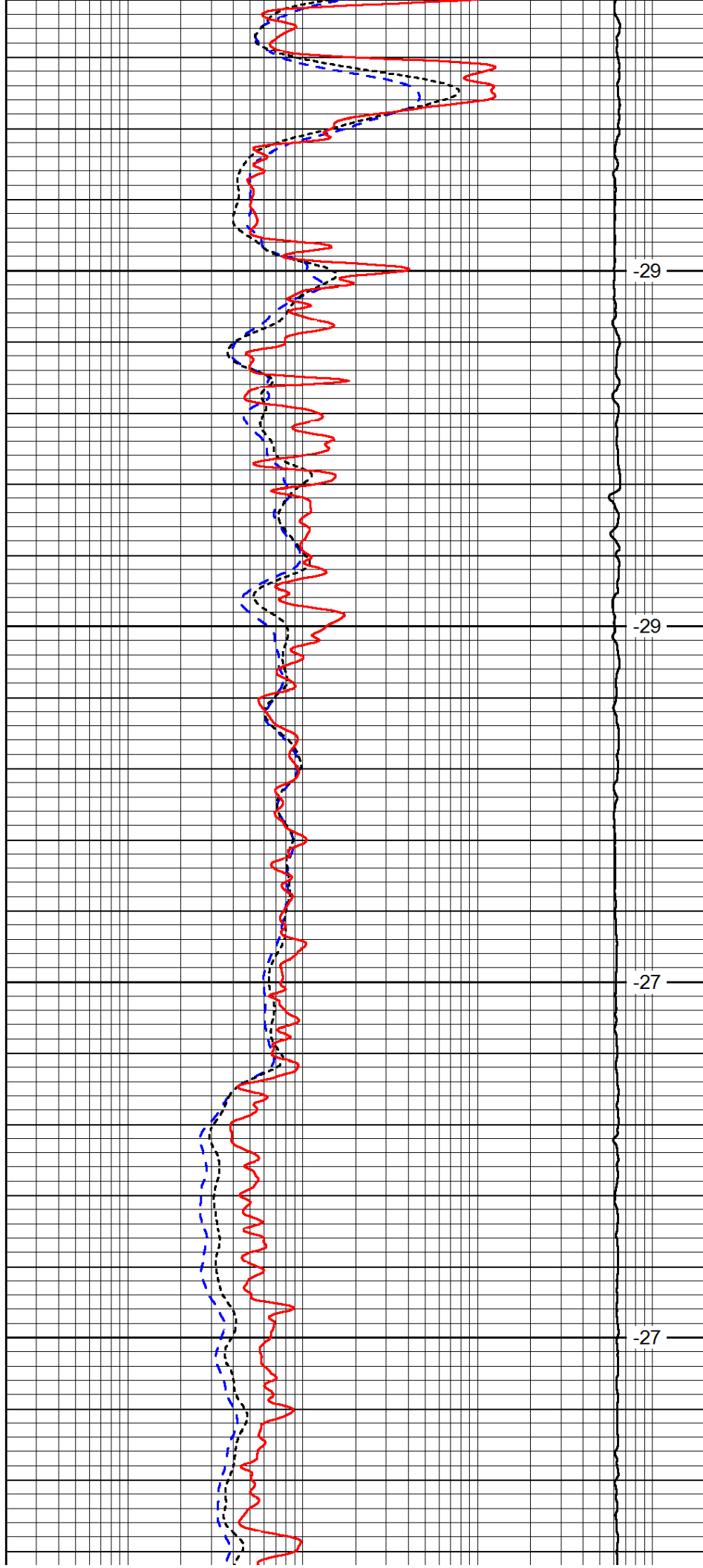


4200

4250

4300

4350

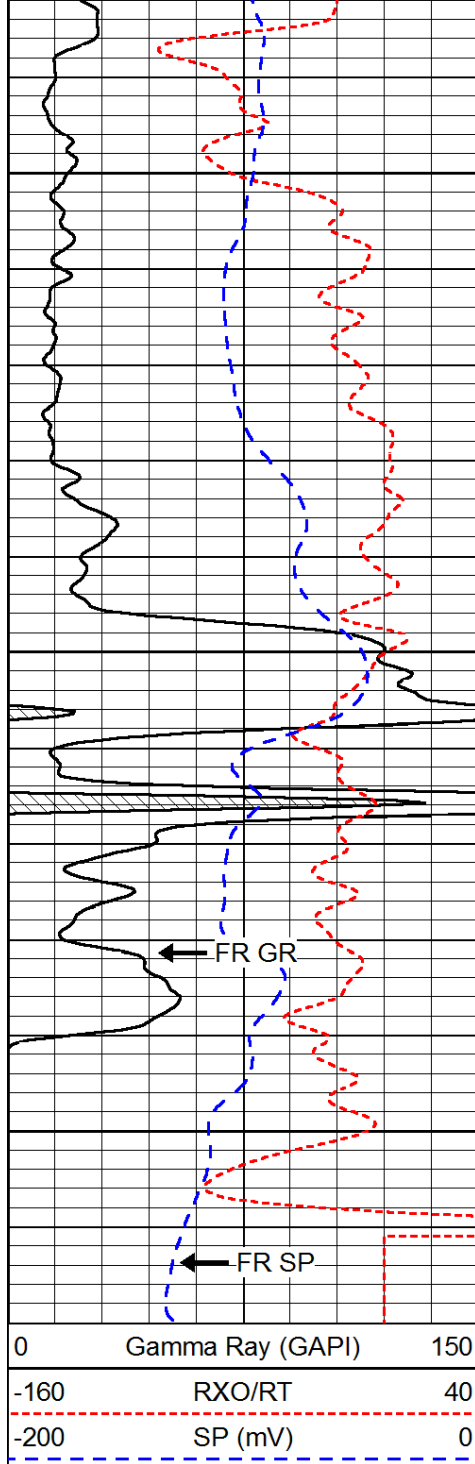


-29

-29

-27

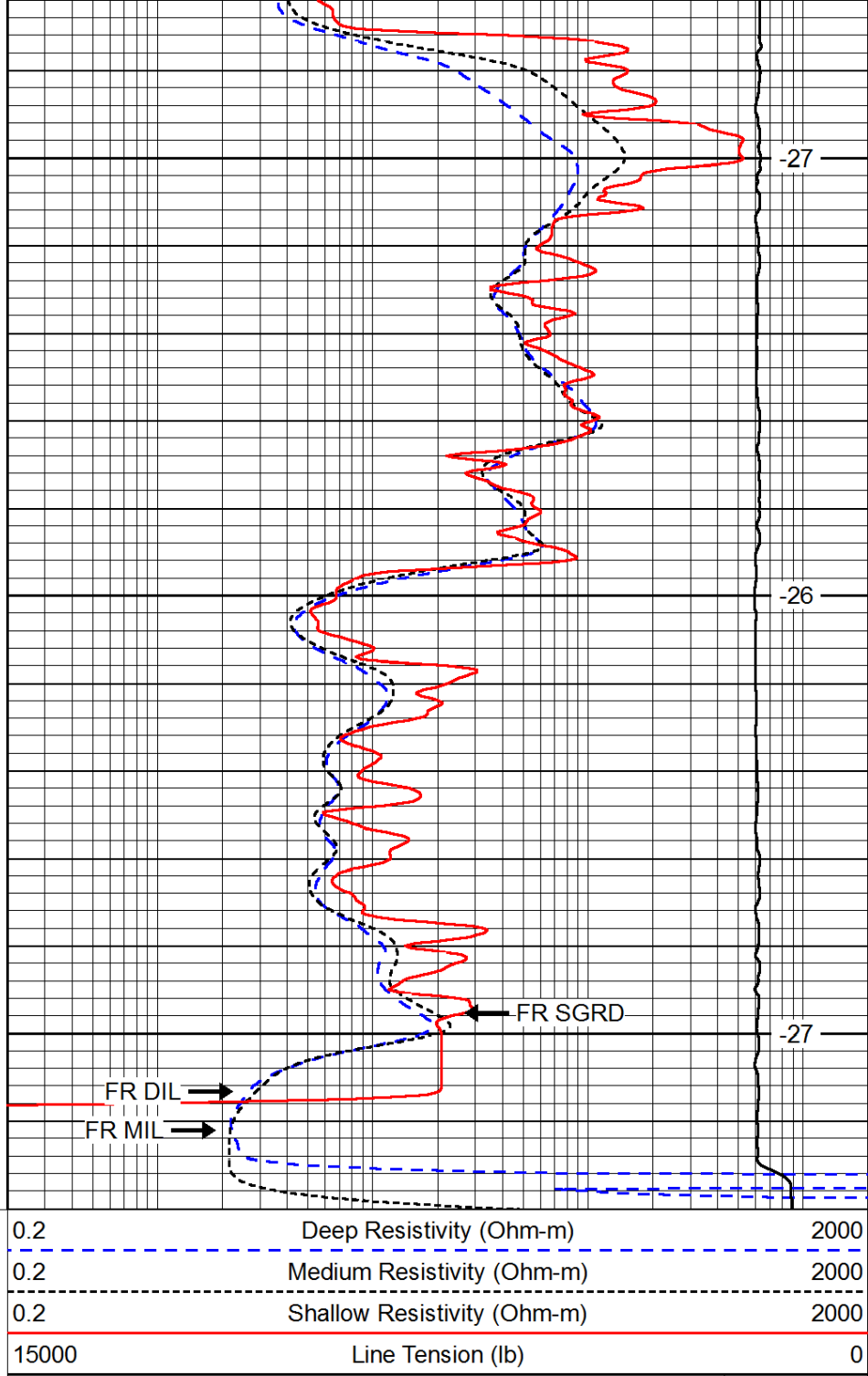
-27



4400

4450

4500



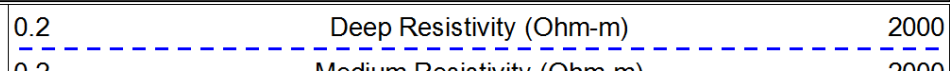
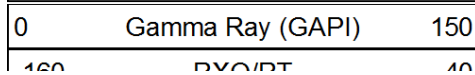
LSPD
(ft/min)

LOG-TECH

DIGITAL LOG (785) 625-3858

Repeat Section

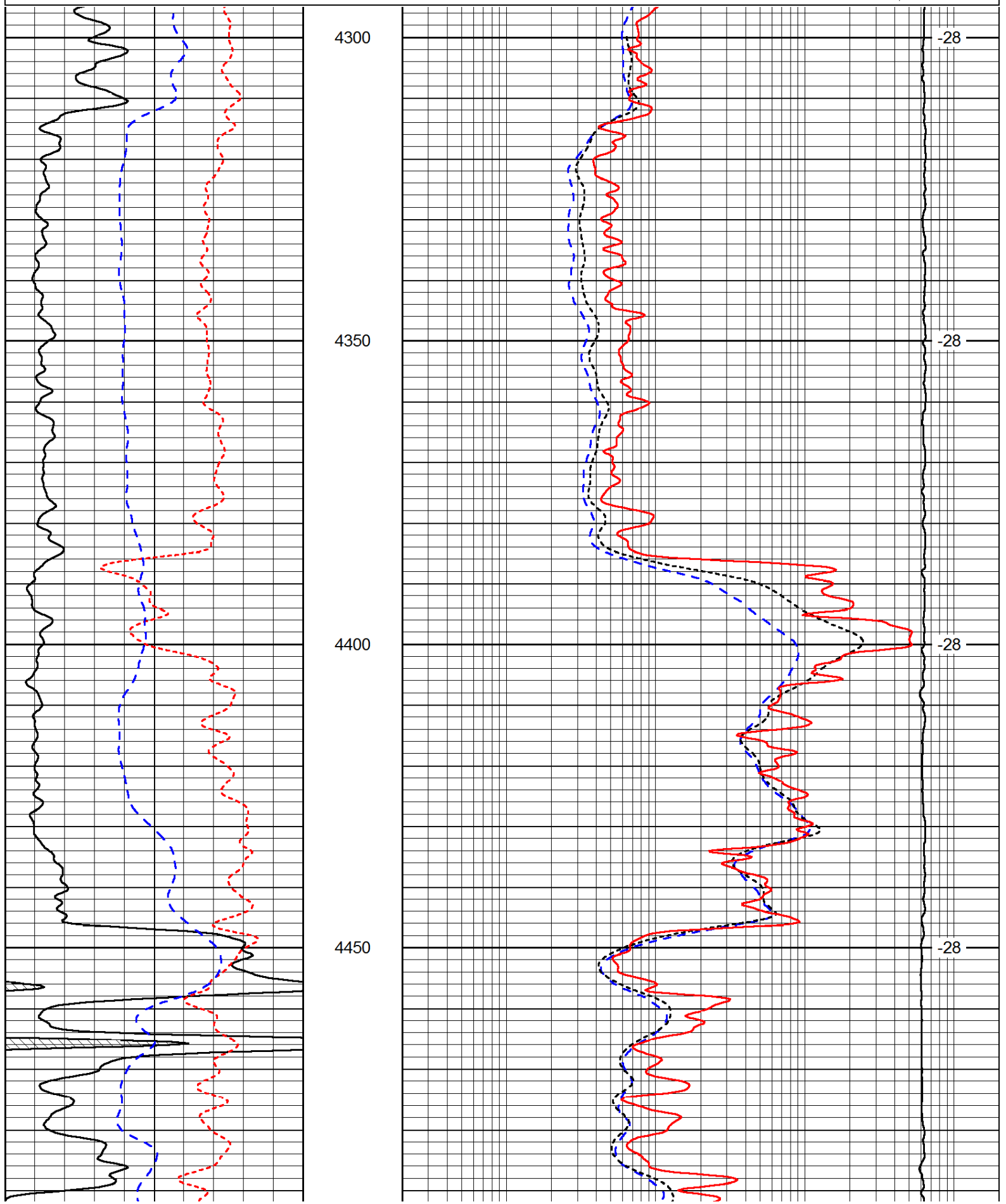
Database File: cholla_061112.db
 Dataset Pathname: stack/pass3.1
 Presentation Format: dil
 Dataset Creation: Mon Jun 11 17:21:30 2012 by Calc Open-Cased 081212
 Charted by: Depth in Feet scaled 1:240

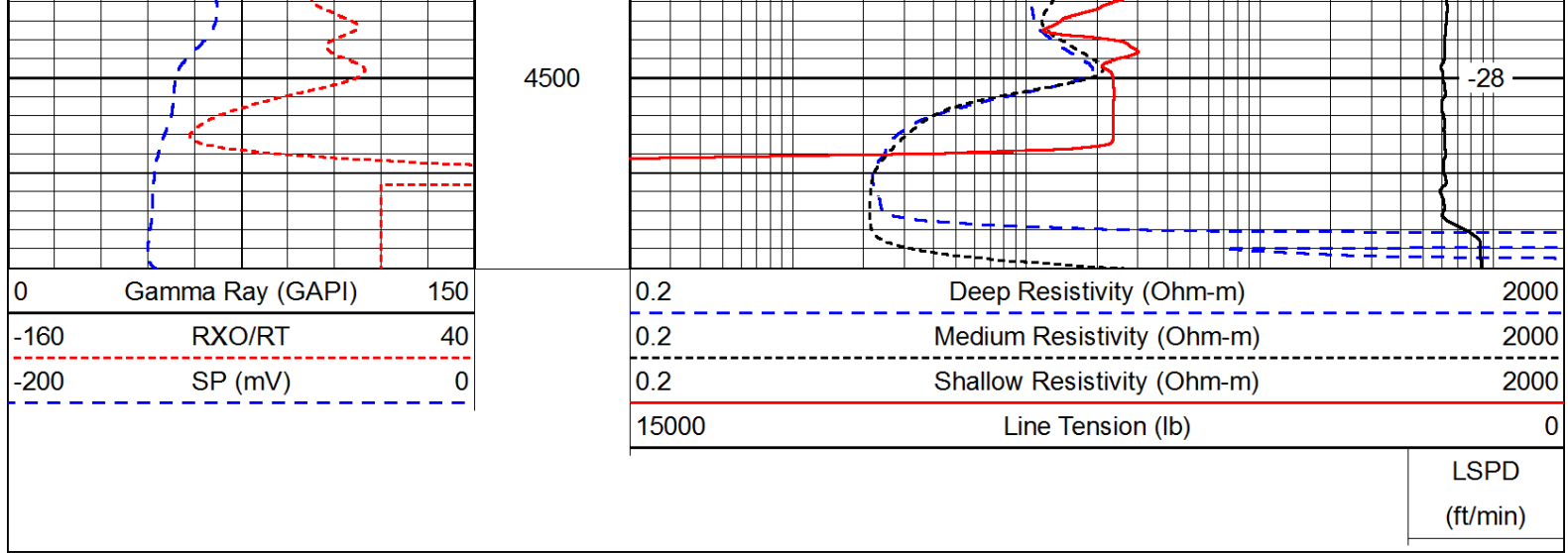


-100	RAO/R1	40
-200	SP (mV)	0

0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
15000	Line Tension (lb)	0

LSPD
(ft/min)





Calibration Report		
Database File:	cholla_061112.db	
Dataset Pathname:	stack/pass4.1	
Dataset Creation:	Mon Jun 11 17:52:44 2012 by Calc Open-Cased 081212	

Dual Induction Calibration Report

Serial-Model:	PSI 13-M&W
Surface Cal Performed:	

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	166.796	835.089	0.000	255.800	mmho/m	0.480	-37.500
Medium	142.009	1348.560	0.000	255.800	mmho/m	0.290	-28.000

Compensated Density Calibration Report

Serial-Model:	90-119-M&W
Source / Verifier:	16955B / 2ci
Master Calibration Performed:	Thu May 10 21:21:53 2012
Before Survey Verification Performed:	
After Survey Verification Performed:	

Master Calibration						
	Density		Far Detector	Near Detector		
Magnesium	1.755	g/cc	5625.34	6794.71	cps	
Aluminum	2.670	g/cc	1062.19	4303.29	cps	
Spine Angle = 74.68			Density/Spine Ratio = 0.529			
	Size		Reading			
Small Ring	4.00	in	0.73			
Large Ring	14.00	in	0.04			

Compensated Neutron Calibration Report

Serial Number:	27-PSI
Tool Model:	PSI

CALIBRATION			
Detector	Readings	Target	Normalization

Short Space	6240.00	cps	1000.00	cps	1.8500
Long Space	460.00	cps	1000.00	cps	2.6500
Gamma Ray Calibration Report					
Serial Number:	89				
Tool Model:	M&W				
Performed:	Fri Jan 20 08:40:24 2012				
Calibrator Value:	1.0	GAPI			
Background Reading:	0.0	cps			
Calibrator Reading:	1.0	cps			
Sensitivity:	1.0500	GAPI/cps			