



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1253014  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- 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
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

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

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1253014

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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**Janel Staab**  
Consulting Petroleum Geologist

2428 Toulon Ave  
Hays, KS 67601  
Phone: 785-625-4311  
Cell Phone: 785-635-1660

**GEOLOGIST'S WELL REPORT**

COMPANY Pioneer Resources #32016  
WELL Schmeidler-Amrein Unit  
FIELD Crathorne East  
LOCATION (legal) SE-SE-SW-SW <sup>90' FSL</sup> <sub>1066' FWL</sub>  
Section 21 TWP 12S RGE 19W  
(Map) 5mi N. 3/4 mi W of I-70 + Yocemento  
COUNTY Ellis STATE Kansas  
ELEVATION: 2164 K.B., 2159 G.L.

Depths measured from Kelly Bushing

A. P. I. NUMBER 15-051-26773  
GEOLOGY BY Janel Staab



**PERTINENT WELL DATA**

CONTRACTOR Shields Oil Producers 5184  
 RIG # 2 HYDRAULICS Beth 225 6x14 XL60  
 DRILL PIPE 4 1/2 X-H COLLARS 6 1/4' 3 1/2"  
 CASING: SURFACE 8 5/8" @ 2220' W / 150 SX Common  
 PRODUCTION 5 1/2" @ 3882' W / 150 SX Common  
 DRILLING FLUID: COMPANY MudCo. / ServiceMud, Inc  
 TYPE: Chemical Gary Schmidtberger  
 REMARKS: Full Service  
 DRILL STEM TESTS: COMPANY Tribolite Testing  
 NUMBER OF TESTS 4  
 ELECTIC LOGS: COMPANY Hovener Energy Services  
 DETAIL (5") 3150' - RTD  
 TYPE DI, Comp N.D. Micro  
 DRILLING TIME FROM 3160 TO RTD  
 SAMPLE TIME FROM 3160 TO RTD  
 SUPERVISION FROM 3160 TO RTD  
 VERTICAL DEVIATION 3/4" @ 222' 1" @ 3565  
 PLUGGING REPORT \_\_\_\_\_  
 RESERVE PIT \_\_\_\_\_

**DAILY REPORT**

DATE:	7 a.m. Depth	RIG ACTIVITY
4-21-15		M.I.R.U. Spud
4-22-15	220'	W.O.C
4-23-15	1481'	Drilling Anhydrit
4-24-15	2605'	Drilling Shale + lime
4-25-15	3205'	Drilling Topoke lim
4-26-15	3565'	DST #1 LRC. F 200
4-27-15	3660'	Drilling LRC T + S2
4-28-15	3718'	Drilling Merm. lim
4-29-15	3882'	P + A



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**SUMMARY**

The Schneiderler-Amerin Unit was drilled using Shields #2. Location was Sec 21 T12 R15 in Ellis Co. starting April 21, 2015 and reaching TD on April 28, 2015.

3-D seismic indicated a structural high compared to other dry holes near by.

4 DSTs were run with #1, #2 and #4 having negative results, and #3 was positive.

Logs were run.

As a result Producer decided to P+H.

Location

*Paul Seal*

**REMARKS**

**LITHOLOGY (LAGGED)**

SHOWS  
POOR  
FAIR  
GOOD  
DST

**DRILLING TIME (min/ft)**

1/2 1 2 3 4 5 6 7 8 9 10





Ls AIA

sh. stst. gry. brn. gr  
Ls off wht. brn. gry. fossil  
st. chky

sh. Blk. carb

Ls tan. brn. gry. fossil chky

Ls AIA

Ls off wht. tan. brn. gry  
fossil fossil st. chky s. pyrite

Ls AIA

○ Ls off wht. gry. v. fossil. fossil  
1 pc. stain fair interpart of  
no odor  
sh. Blk carb fossil  
Ls off wht. fossil fossil  
st. chky

sh. stst. gry. brn

Ls off wht. - tan. fossil

sh. stst. gry. brn. green

Ls off wht. brn. fossil fossil  
poor interpart of no stain no odor

A

○ Ls off wht. fossil. oolitic  
poor interpart of st. stain  
no odor no odor

B

○ Ls off wht. fossil. oolitic  
poor fight of show when cut  
no odor no odor

C

A/A no show  
sh. stst. gry. brn. green. red

○ Ls off wht. - fossil - oolitic  
st. odor st. stain no odor  
poor interpart of fair fight  
pyrite st. chky

D

○ Ls fossil. oolitic fair interpart -  
vugy of st. stain st. odor

MUD  
WT 9.2  
Vis 46  
LCM 1

E

Ls off wht. fossil. v. fossil. fossil  
st. chky no odor no odor

F

○ Ls AIA  
Ls off wht. oolitic. fossil fossil  
fair odor fair interpart. vugy of  
good sat. s. sp.  
sh. stst. gry. brn

DST #1  
3552-3565  
F Zone  
5-60-30 -  
Rec 5' OSM  
FP 16-17, 20-22  
SIP 1005 -

○ Ls off wht. tan. fossil. oolitic  
poor interpart of fair



Ls AIA

sh. stst. gry. brn. gr  
Ls off wht. brn. gry. fossil  
st. chky

sh. Blk. carb

Ls tan. brn. gry. fossil chky

Ls AIA

Ls off wht. tan. brn. gry  
fossil fossil st. chky s. pyrite

Ls AIA

○ Ls off wht. gry. v. fossil. fossil  
1 pc. stain fair interpart of  
no odor  
sh. Blk carb fossil  
Ls off wht. fossil fossil  
st. chky

sh. stst. gry. brn

Ls off wht. - tan. fossil

sh. stst. gry. brn. green

A

Ls off wht. brn. fossil fossil  
poor interpart of no stain no odor

B

○ Ls off wht. fossil. oolitic  
poor interpart of st. stain  
no odor no odor

○ Ls off wht. fossil. oolitic  
poor fight of show when cut  
no odor no odor

C

A/A no show  
sh. stst. gry. brn. green-red

D

○ Ls off wht. - fossil - oolitic  
st. odor st. stain no odor  
poor fight of - interpart of - fight  
pyrite st. chky

E

○ Ls fossil. oolitic fair interpart -  
vugy of st. stain st. odor

F

Ls off wht. fossil. v. fossil. fossil  
st. chky no odor no odor

②

Ls AIA  
Ls off wht. oolitic. fossil fossil  
fair odor fair interpart. vugy of  
good sat. s. sp.  
sh. stst. gry. brn

○

Ls off wht. tan. fossil. oolitic  
poor interpart of fair

MUD  
WT 9.2  
Vis 46  
LCM 1

DST #1  
3552-3565  
F Zone  
5-60-30 -  
Rec 5' OSM  
FP 16-17, 20-22  
SIP 1005 -





Pioneer Energy Services

## Computer Processed Interpretation

15-167-23985-00-00

API No.

Company **Pioneer Resources**

Well **Schwien #1**

Field **Wildcat**

County **Russell** State **Kansas**

Location **NW/NW/NW  
330' FNL / 330' FWL**

Sec: **24** Twp: **15S** Rge: **15W**

Permanent Datum **Ground Level** Elevation **1893**

Log Measured From **Kelly Bushing** 5 Ft. Above Perm. Datum

Drilling Measured From **Kelly Bushing**

Other Services  
DIL/CNL/CDL  
Elevation  
K.B. 1898  
D.F. 1893  
G.L. 1893

Date Recorded 11/7/2014

Depth Logger 3438

Curve Definitions

SW Water Saturation

SXO Water Saturation In The Flushed Zone

VCL Volume Of Clay

PHIE Density - Neutron Crossplot Shale Corrected

BVW Bulk Volume Water

BVWSXO Bulk Volume Water In Flushed Zone

DCAL Caliper

SPC SP Corrected For Baseline

DGA Apparent Grain Density

Payflag If: PHIE > 2, VCL < 40, SPC > -10, SW < 50 & DCAL < 11

Recorded By R. Barnhart

Witnessed By Cliff Ottaway

Analysis By T. Martin

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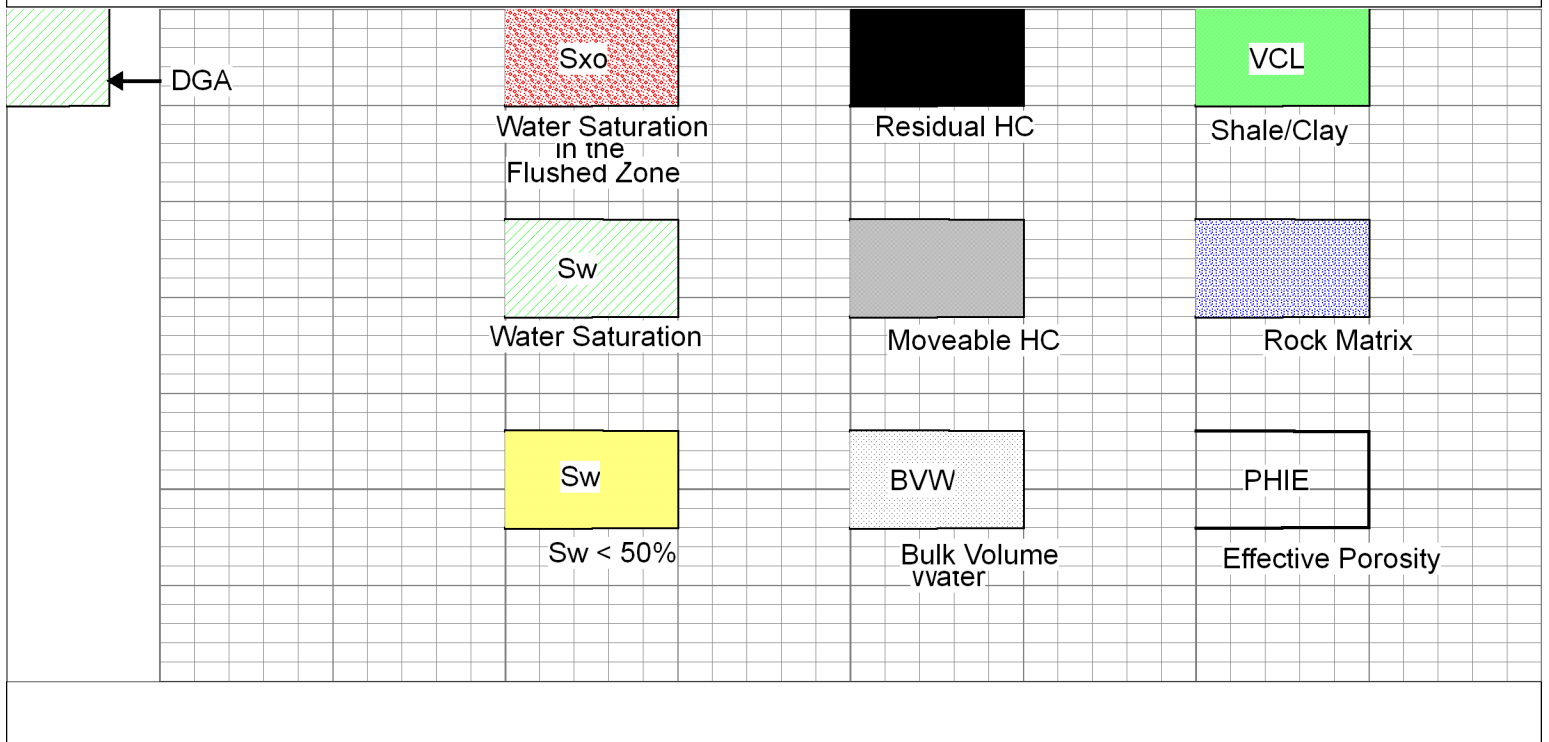
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.  
[www.logtechinc.com](http://www.logtechinc.com)

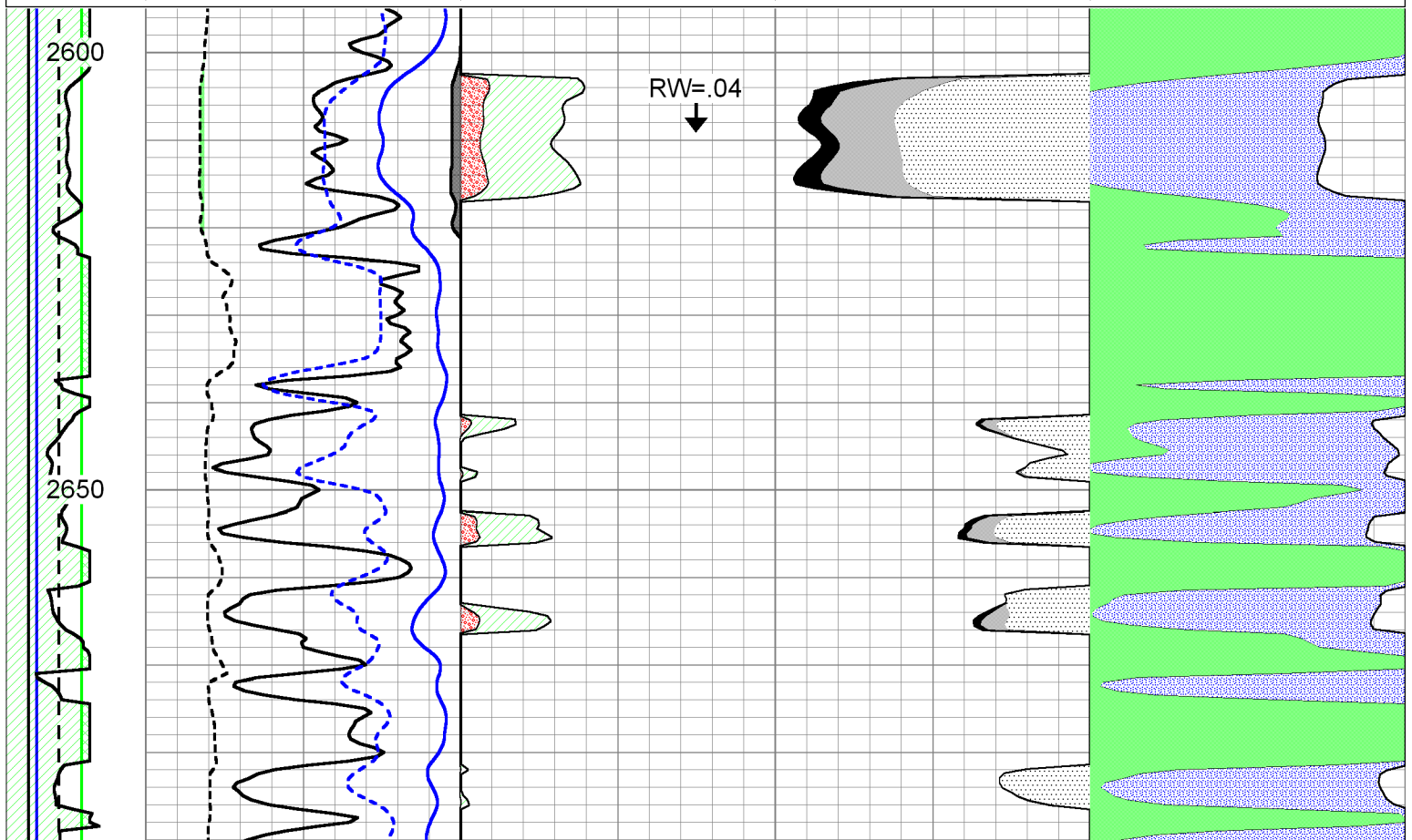
Russell, KS:  
W to Balta Exit: 9 1/2S, 1W, 1N, E into

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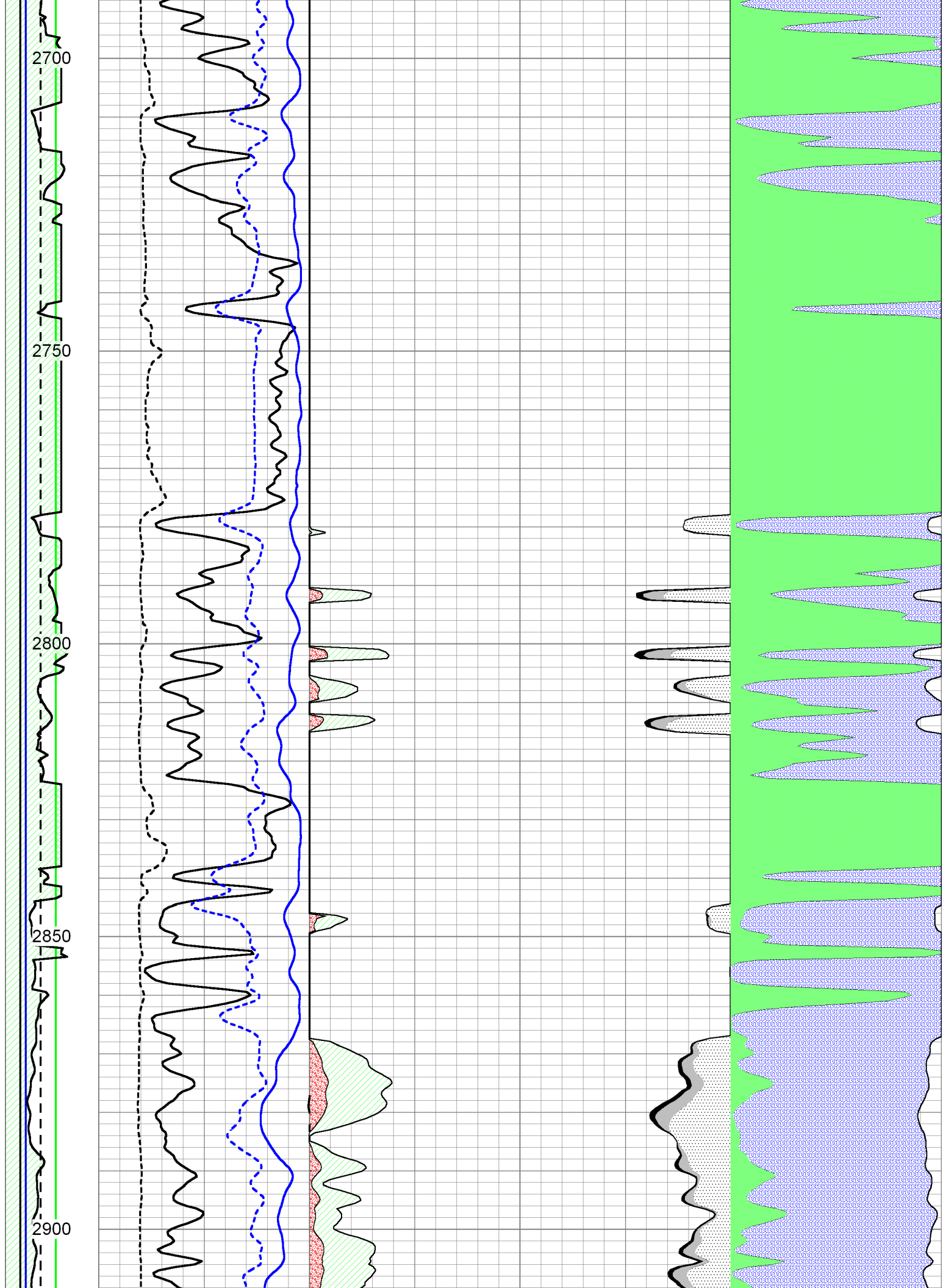


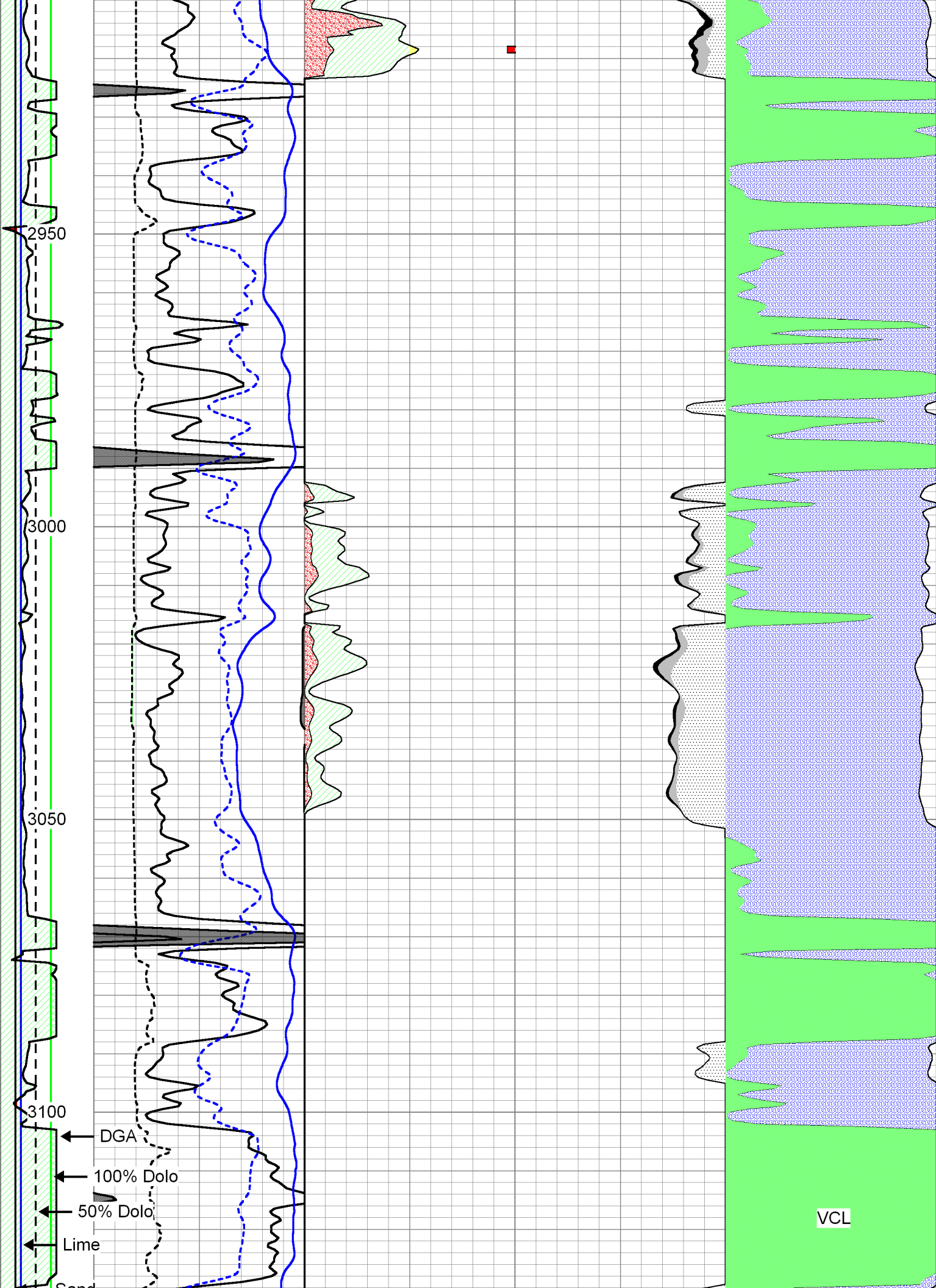
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		-150	SPC (mV)	0	1	SXO	0	0.3	BVWSXO	0			









2950

3000

3050

3100

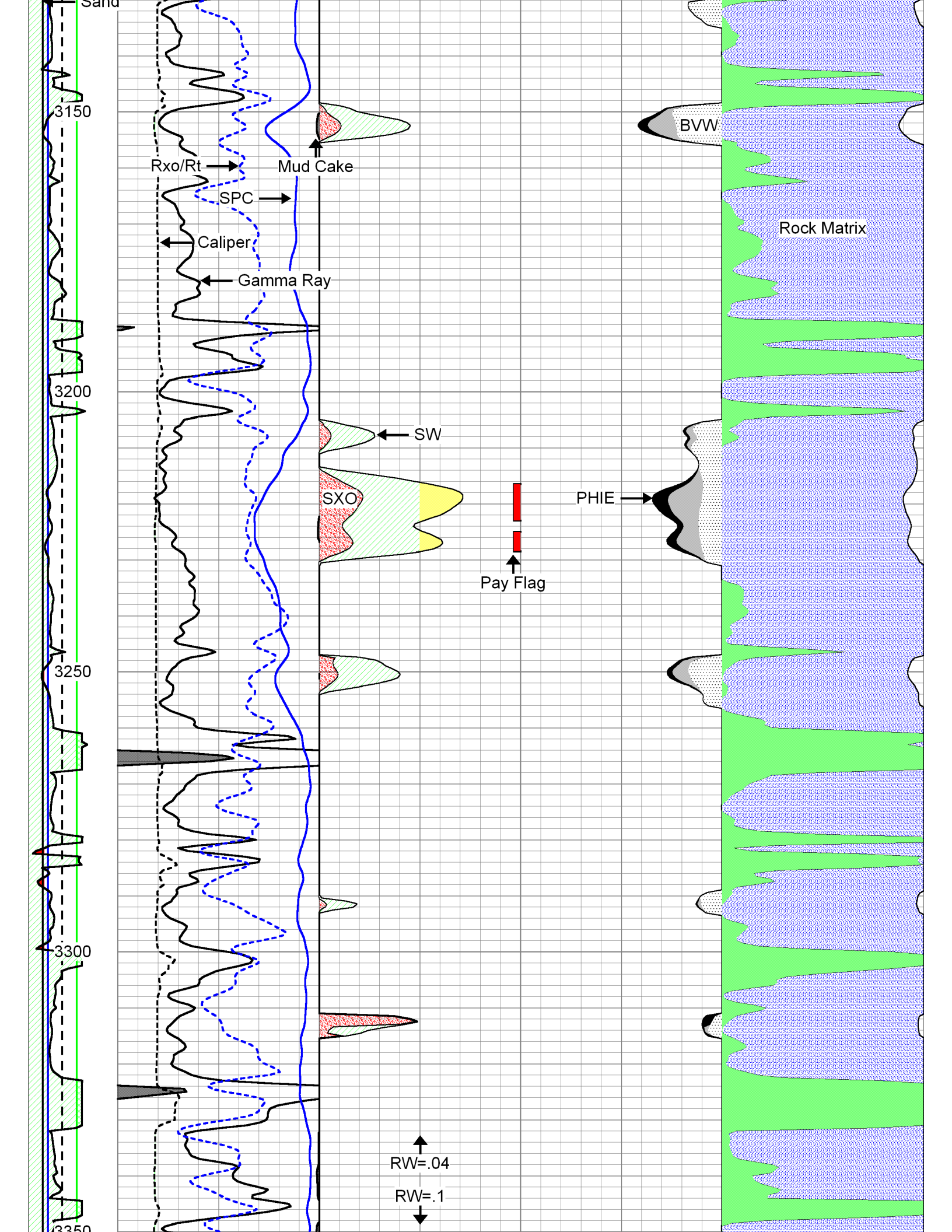
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100% Dolo

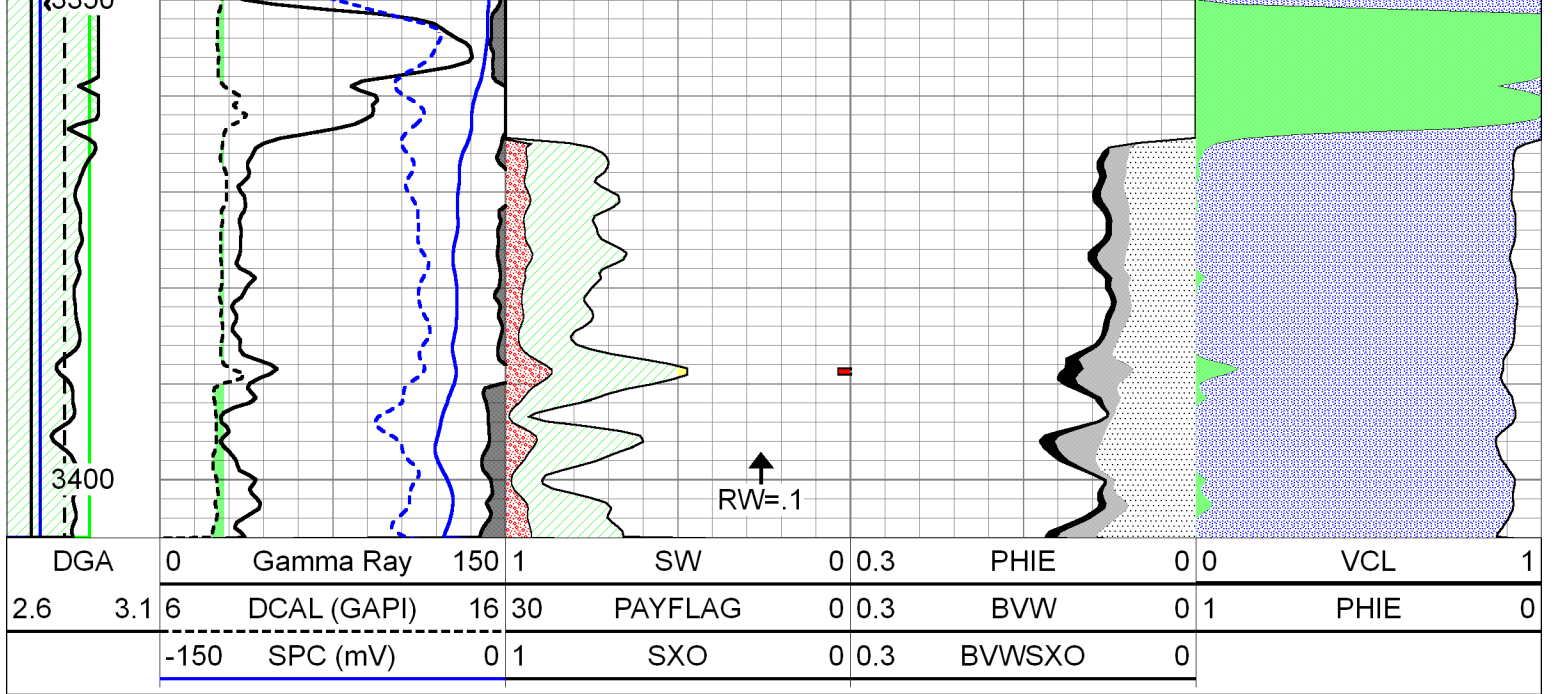
50% Dolo

Lime

VCL









Pioneer Energy Services

# Dual Induction Log

15-051-26773-00-00

API No.

Company **Pioneer Resources**  
 Well **Schmeidler-Amrein Unit #1**  
 Field **Crathorne East**  
 County **Ellis** State **Kansas**

Location **SE SE SW SW  
 90' FSL & 1065' FWL**

Sec: **21** Twp: **12S** Rge: **19W**

Other Services  
 CNL/CDL  
 MEL

Elevation

K.B. 2164  
 D.F. 2159  
 G.L. 2159

Permanent Datum **Ground Level** Elevation **2159**  
 Log Measured From **Kelly Bushing** 5 Ft. Above Perm. Datum  
 Drilling Measured From **Kelly Bushing**

Date	4/28/2015
Run Number	One
Depth Driller	3882
Depth Logger	3881
Bottom Logged Interval	3880
Top Log Interval	200
Casing Driller	8.625 @ 217
Casing Logger	220
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	5000
Density / Viscosity	9.5 65
pH / Fluid Loss	10.5 7.6
Source of Sample	Flowline
Rm @ Meas. Temp	0.70 @ 60
Rmf @ Meas. Temp	0.53 @ 60
Rmc @ Meas. Temp	0.95 @ 60
Source of Rmf / Rmc	Charts
Rm @ BHT	0.37 @ 115
Operating Rig Time	3 Hours
Max Rec. Temp. F	115
Equipment Number	91
Location	Hays
Recorded By	D. Schmidt
Witnessed By	Janel Staab

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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 Pioneer Energy Services  
[www.pioneerres.com](http://www.pioneerres.com)  
 785 625 3858  
 Hays,  
 West on I-70 to Yocemento Rd,  
 4 1/2 North to Locust Grove, 3/4 West,  
 North into

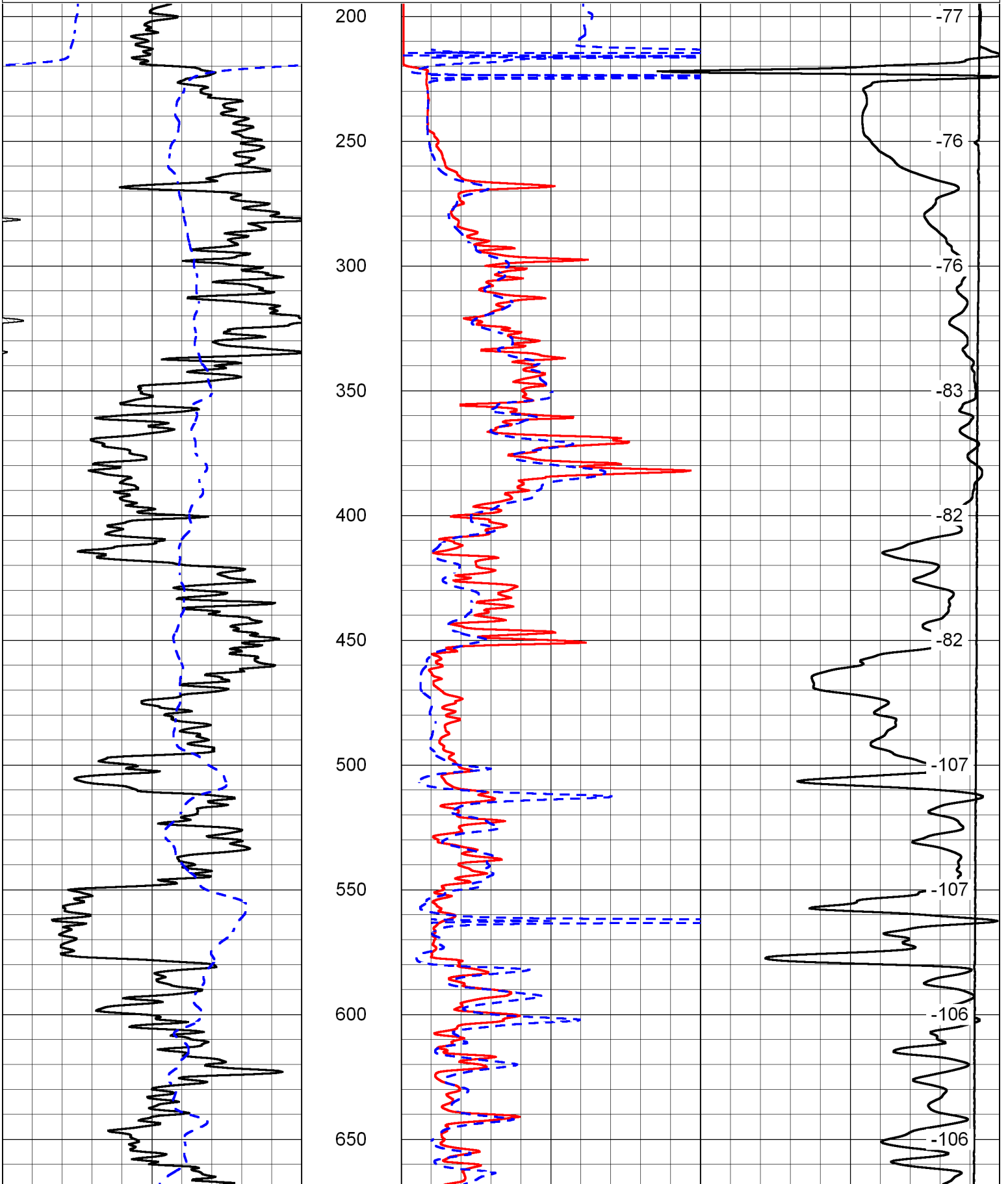
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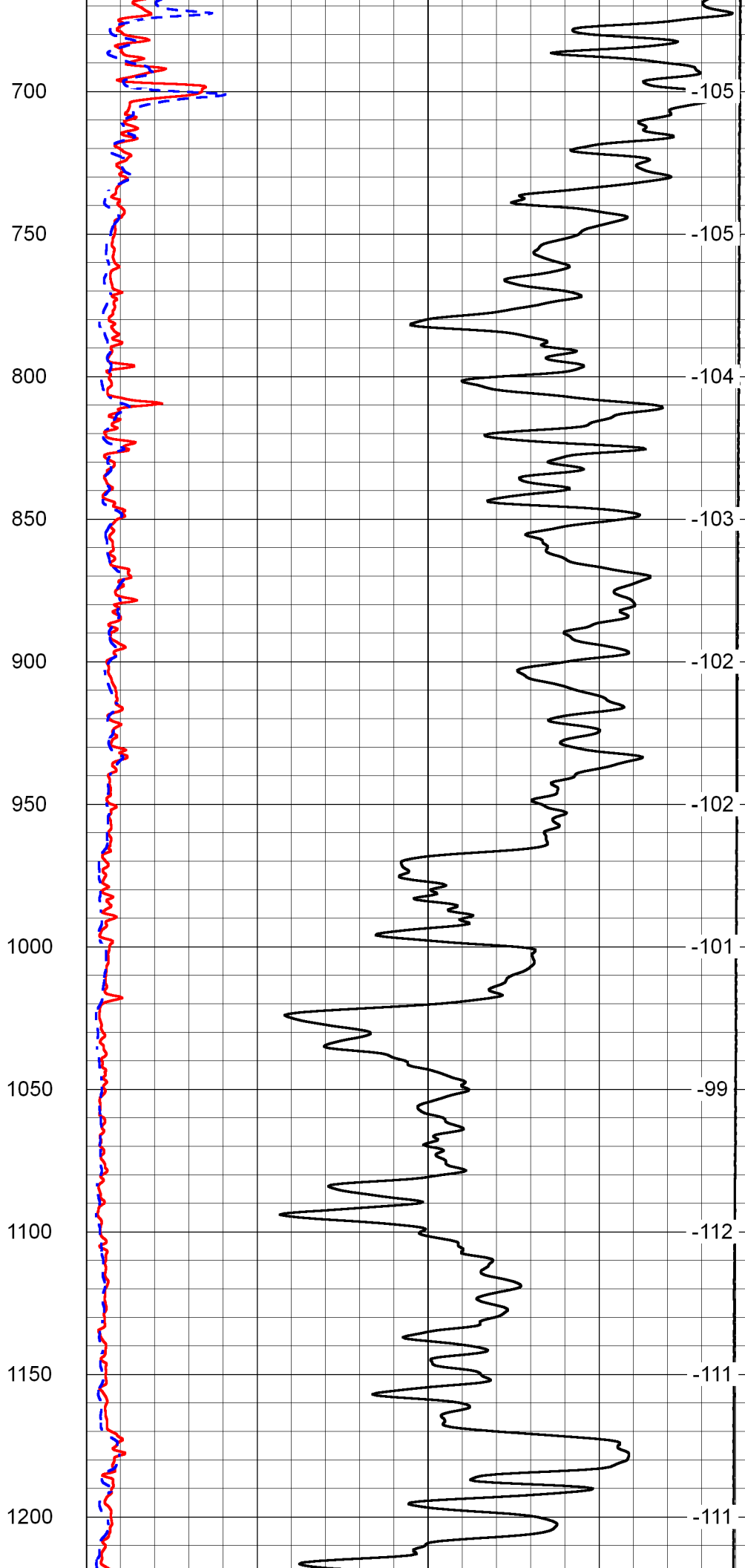
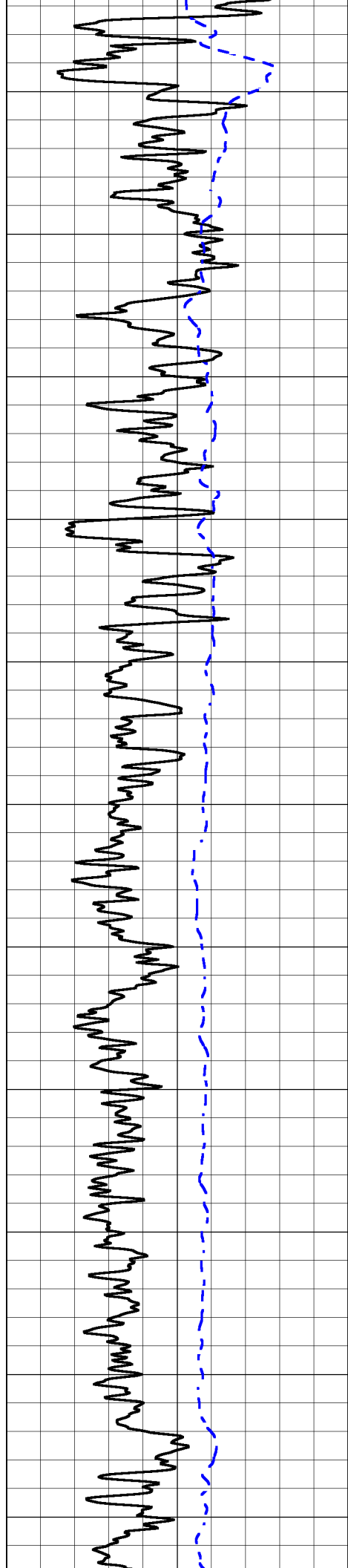
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50	Deep Resistivity	500

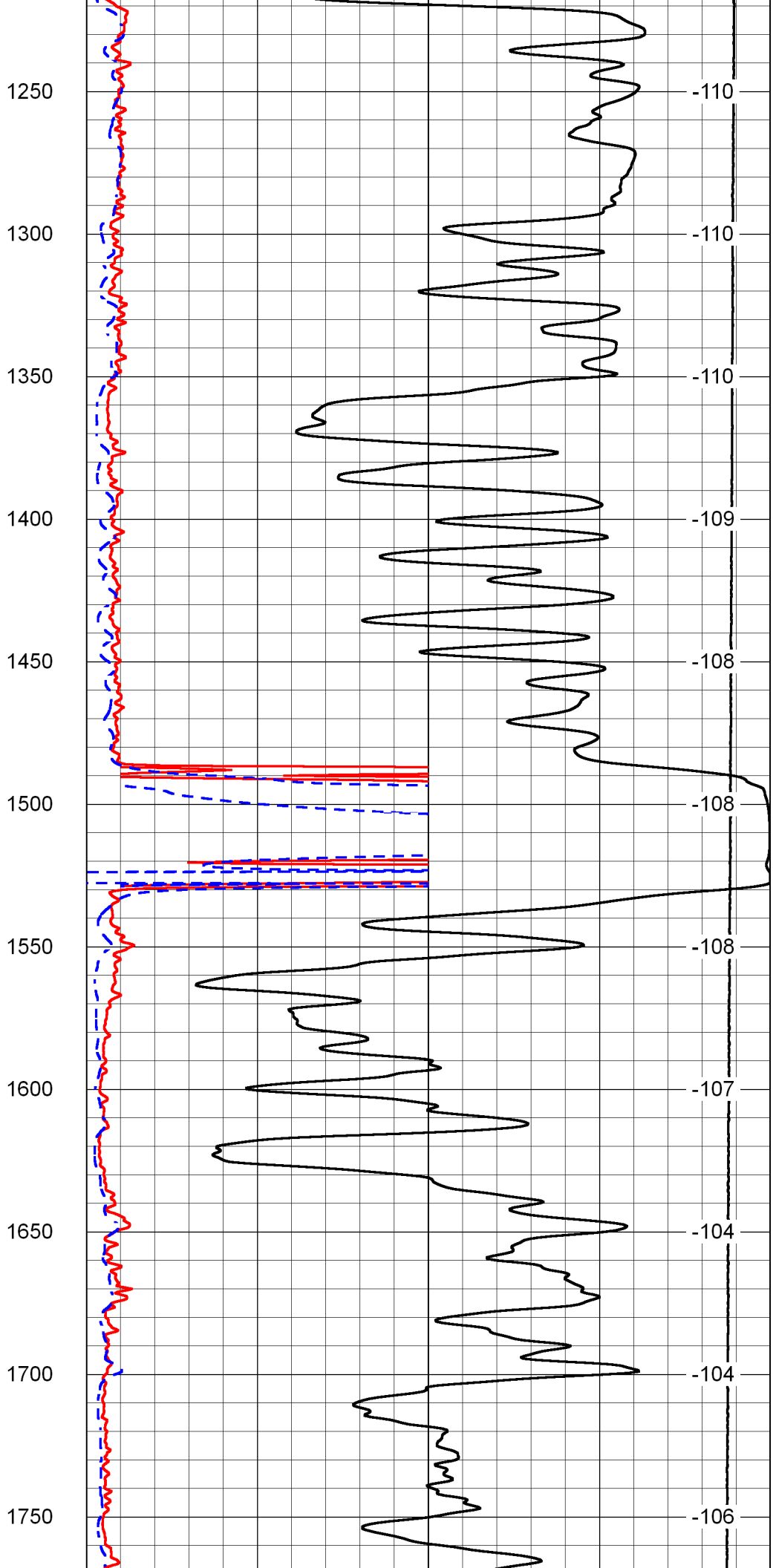
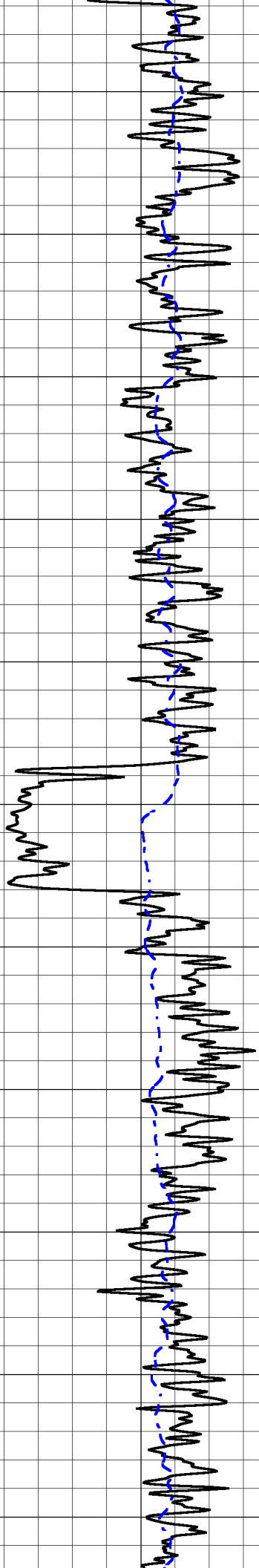
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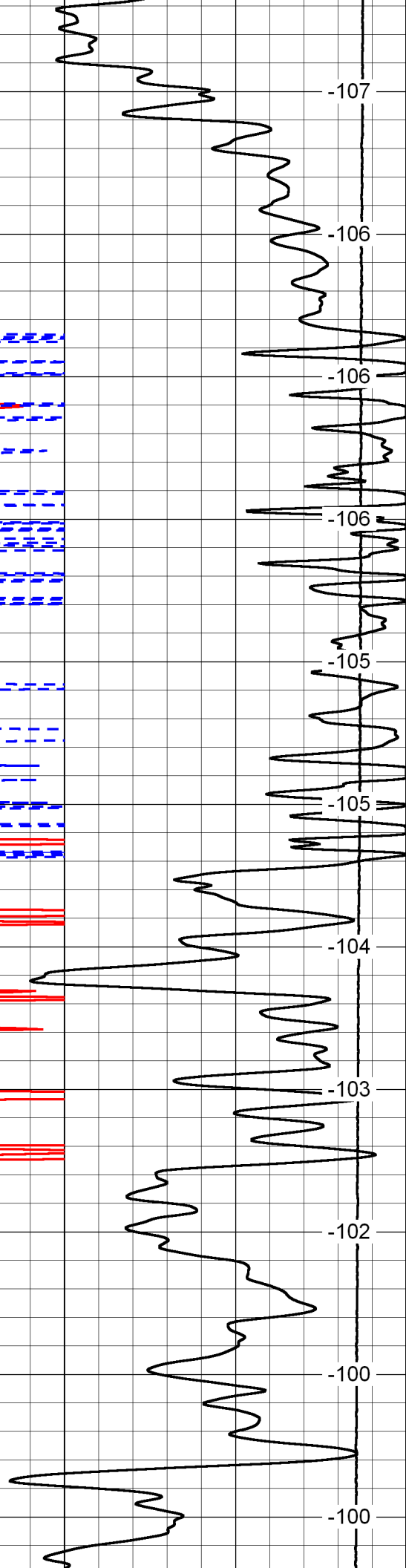
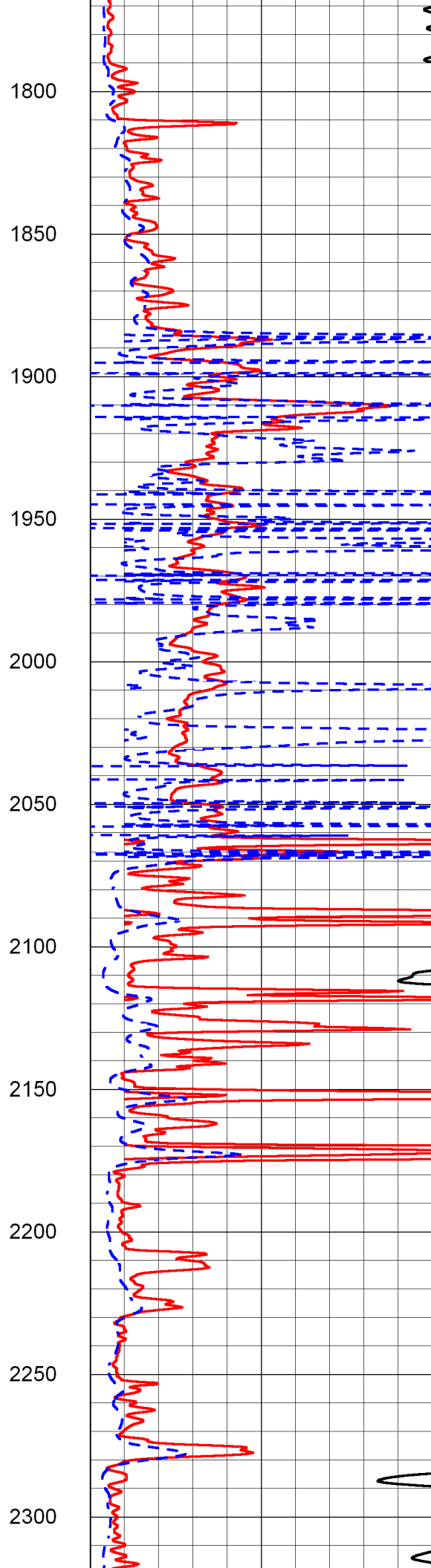
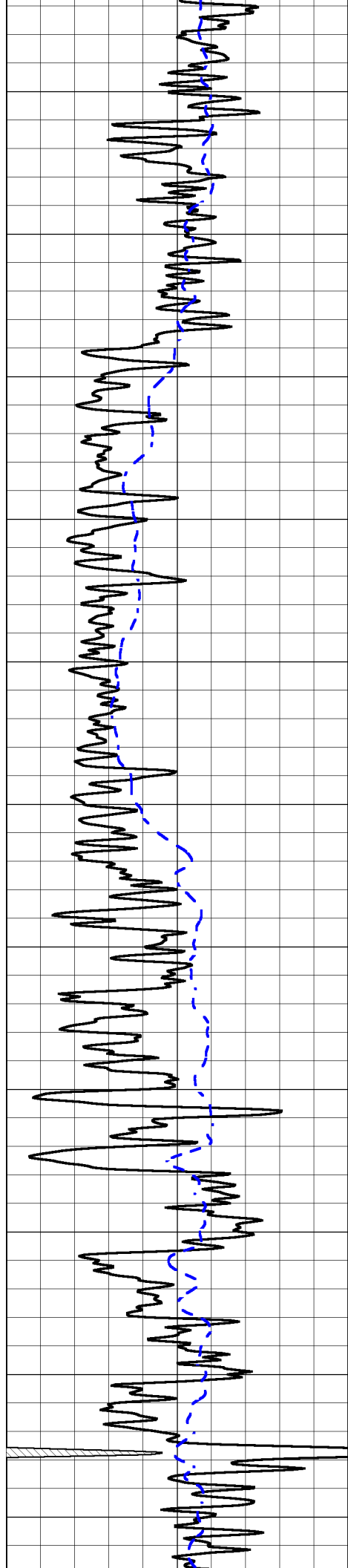


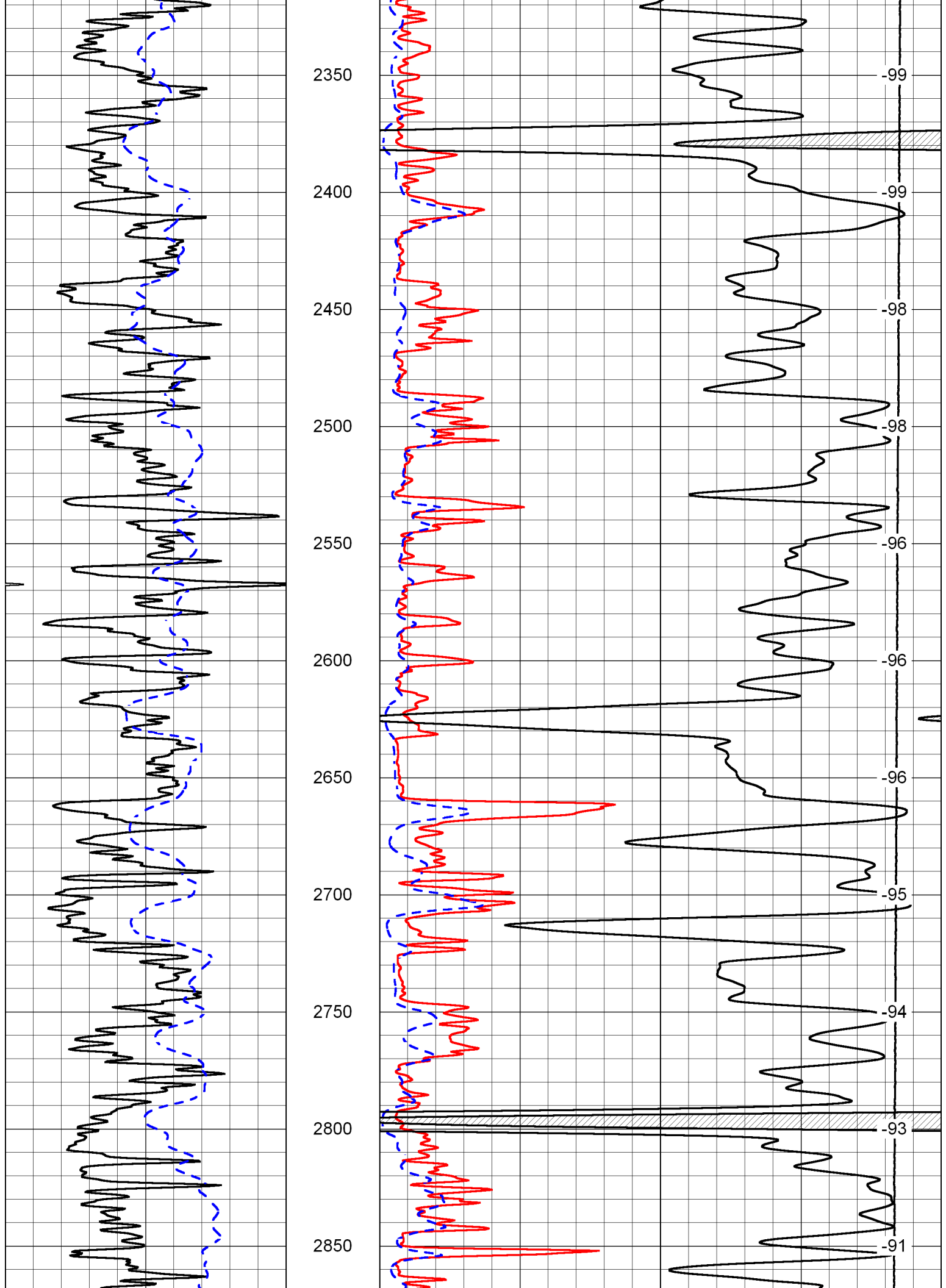




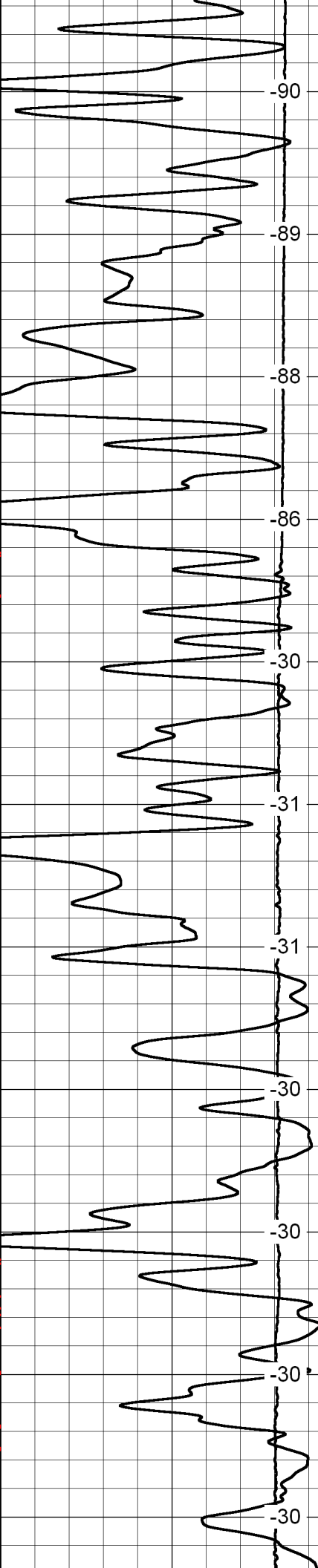
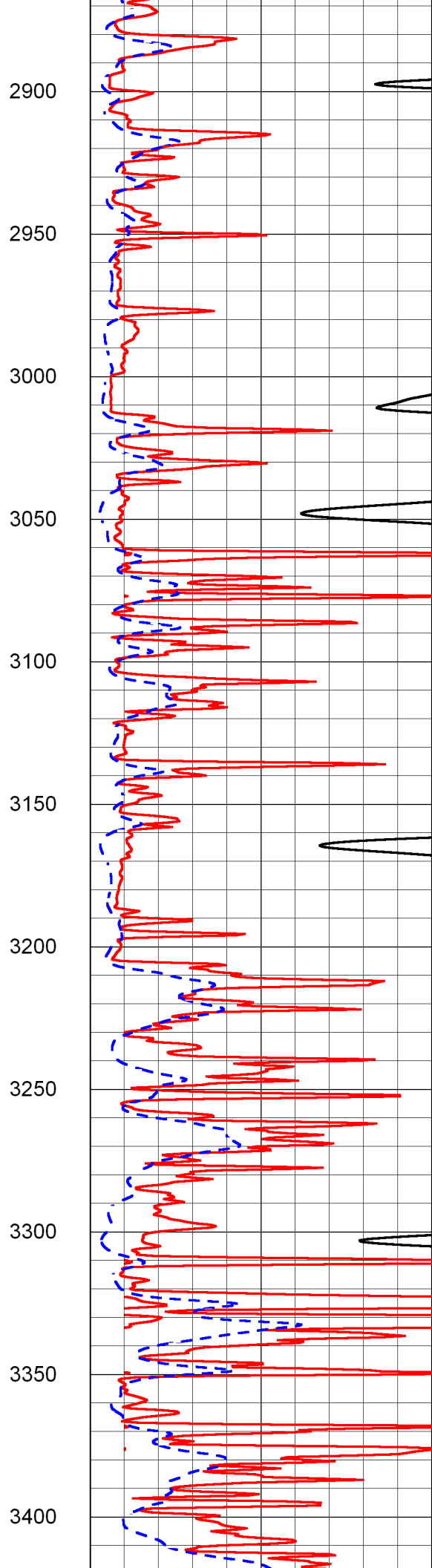
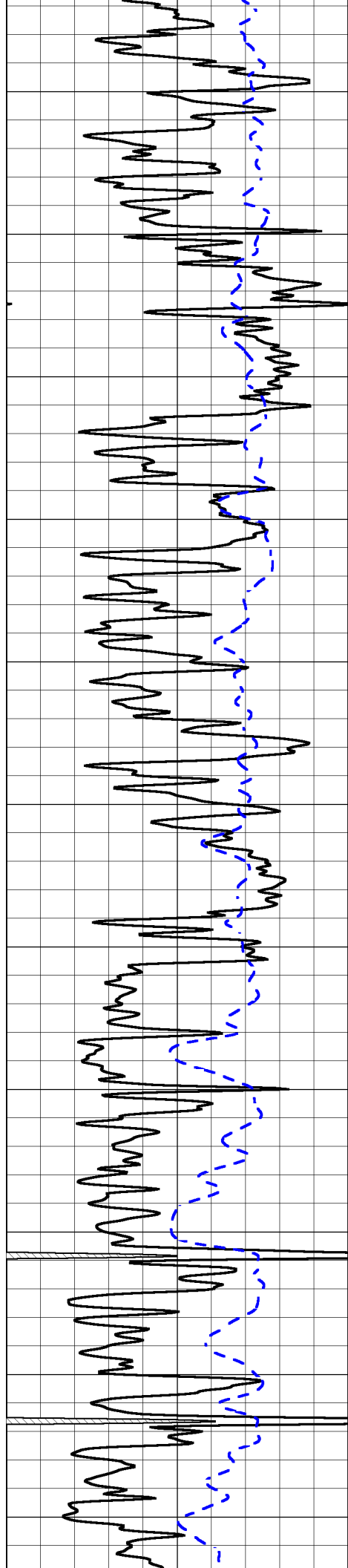


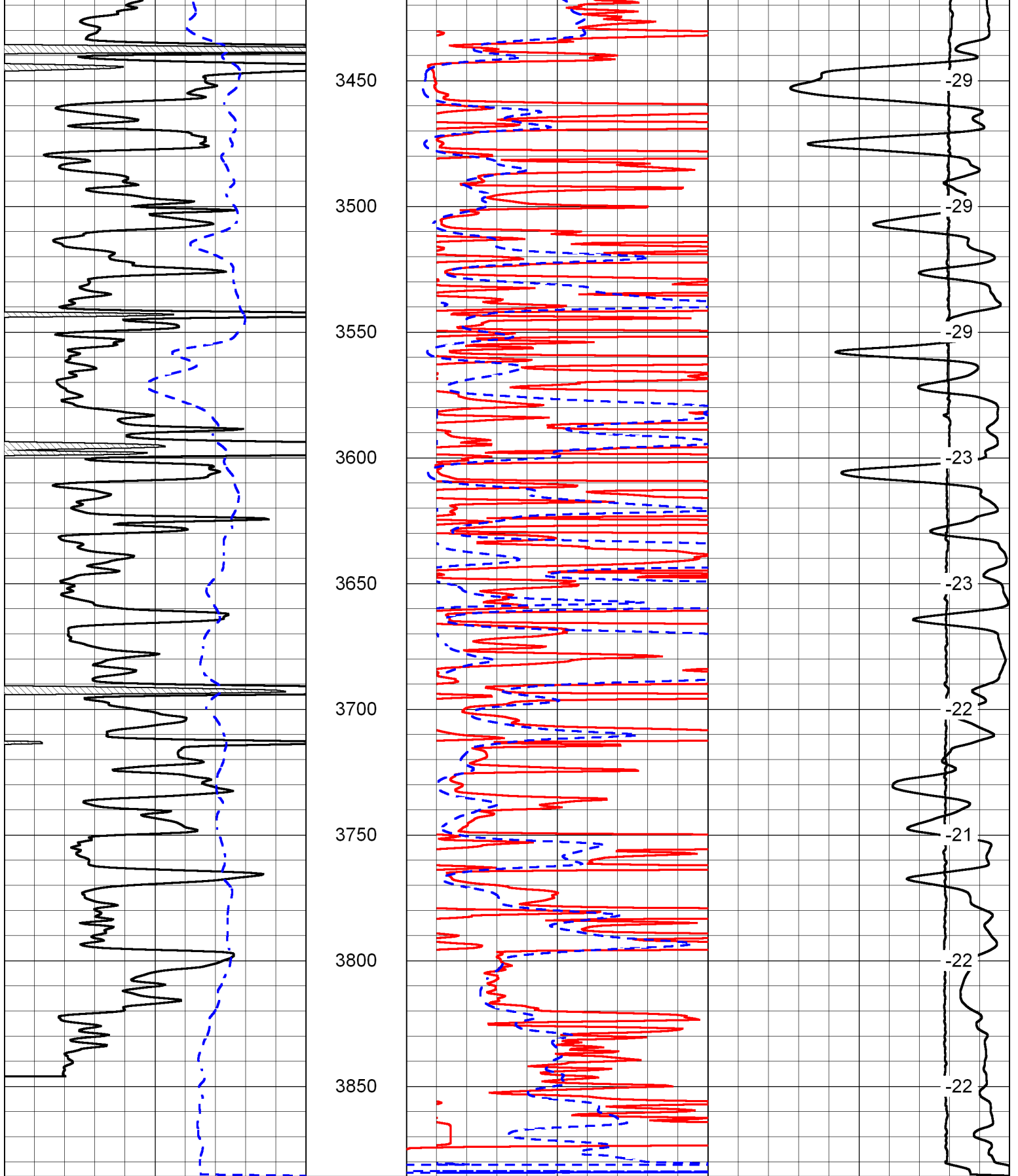












0      Gamma Ray      150  
 -200      SP (mV)      0

1000      Conductivity      0  
 15000      Line Tension      0

0	Shallow Resistivity	50	LSPD
0	Deep Resistivity	50	
50	Shallow Resistivity	500	
50	Deep Resistivity	500	

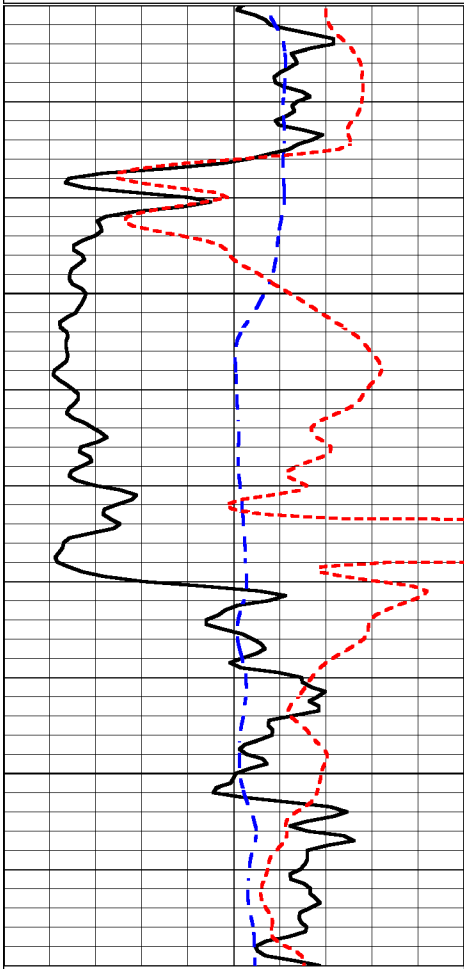


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 Presentation Format dil  
 Dataset Creation Tue Apr 28 22:18:32 2015  
 Charted by Depth in Feet scaled 1:240

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

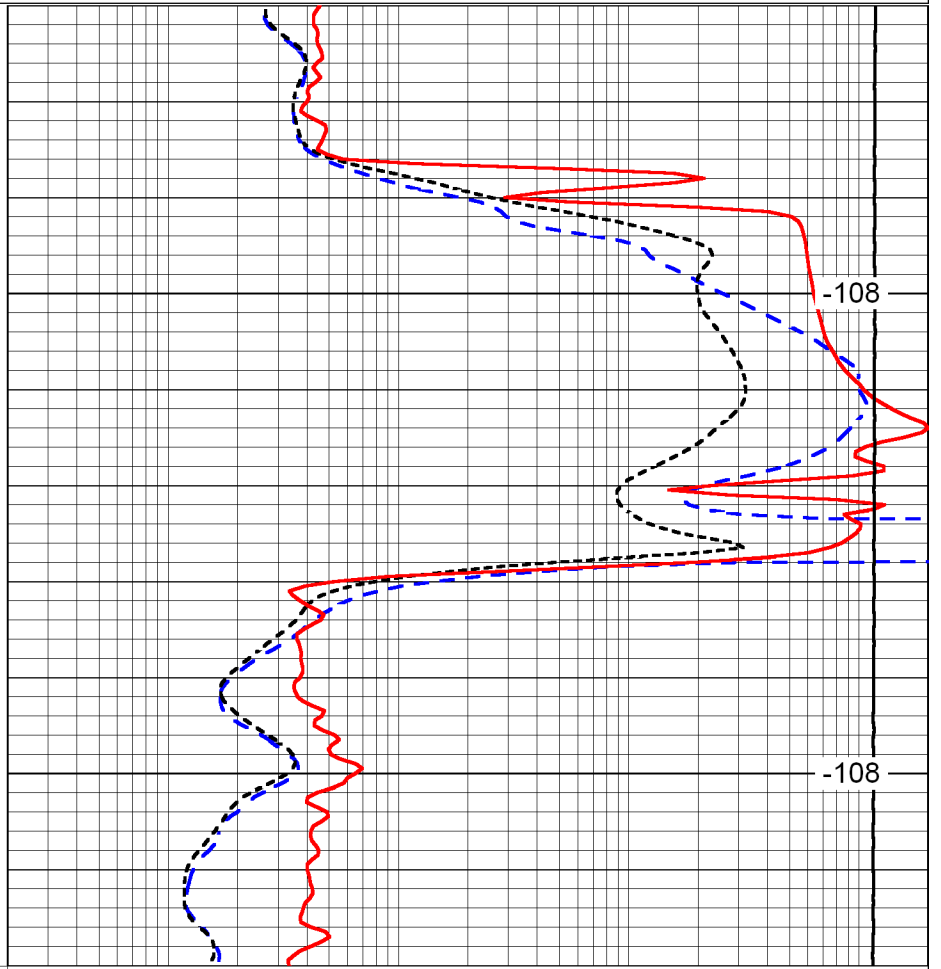
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD



1500

1550



-108

-108

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

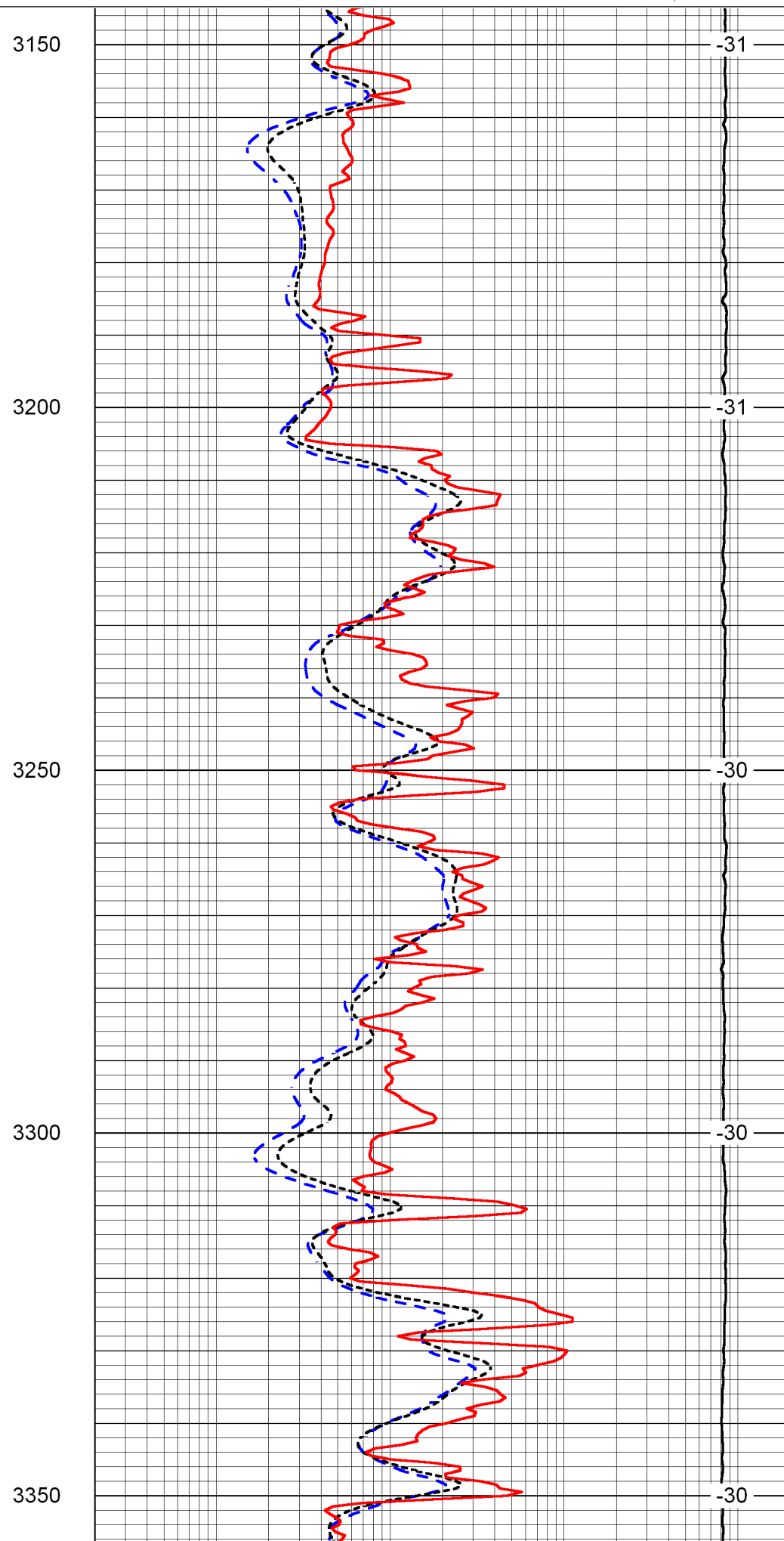
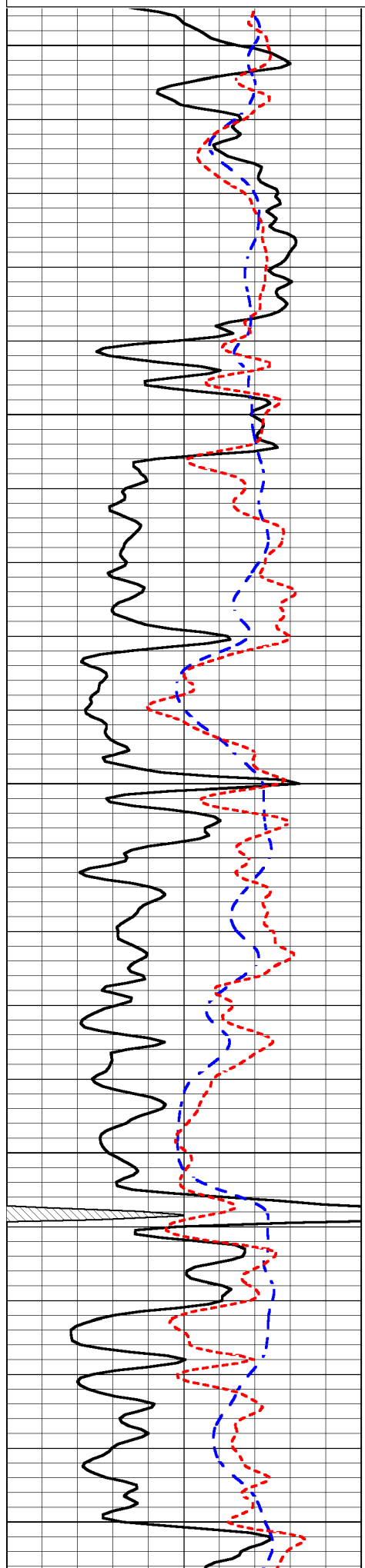
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0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD

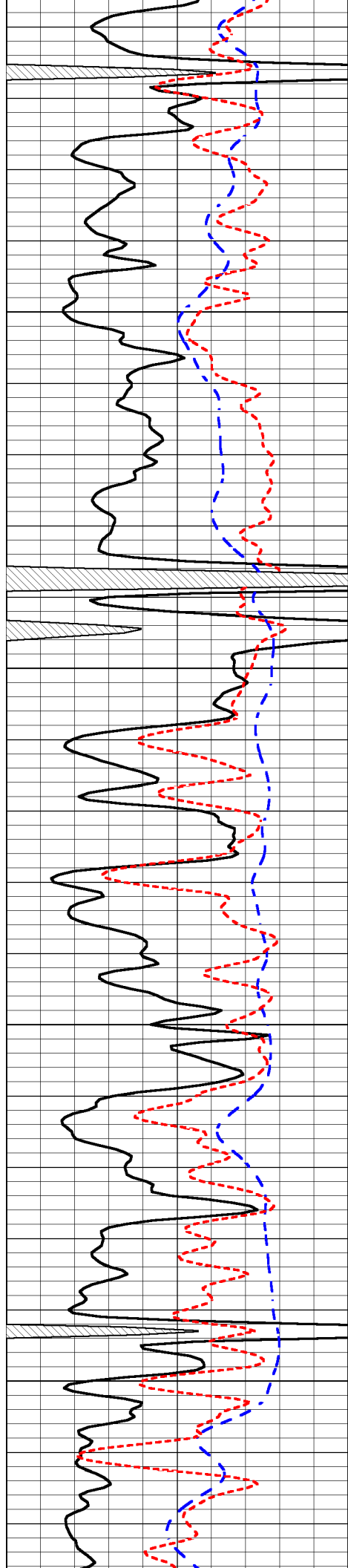
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 Charted by Depth in Feet scaled 1:240

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

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0





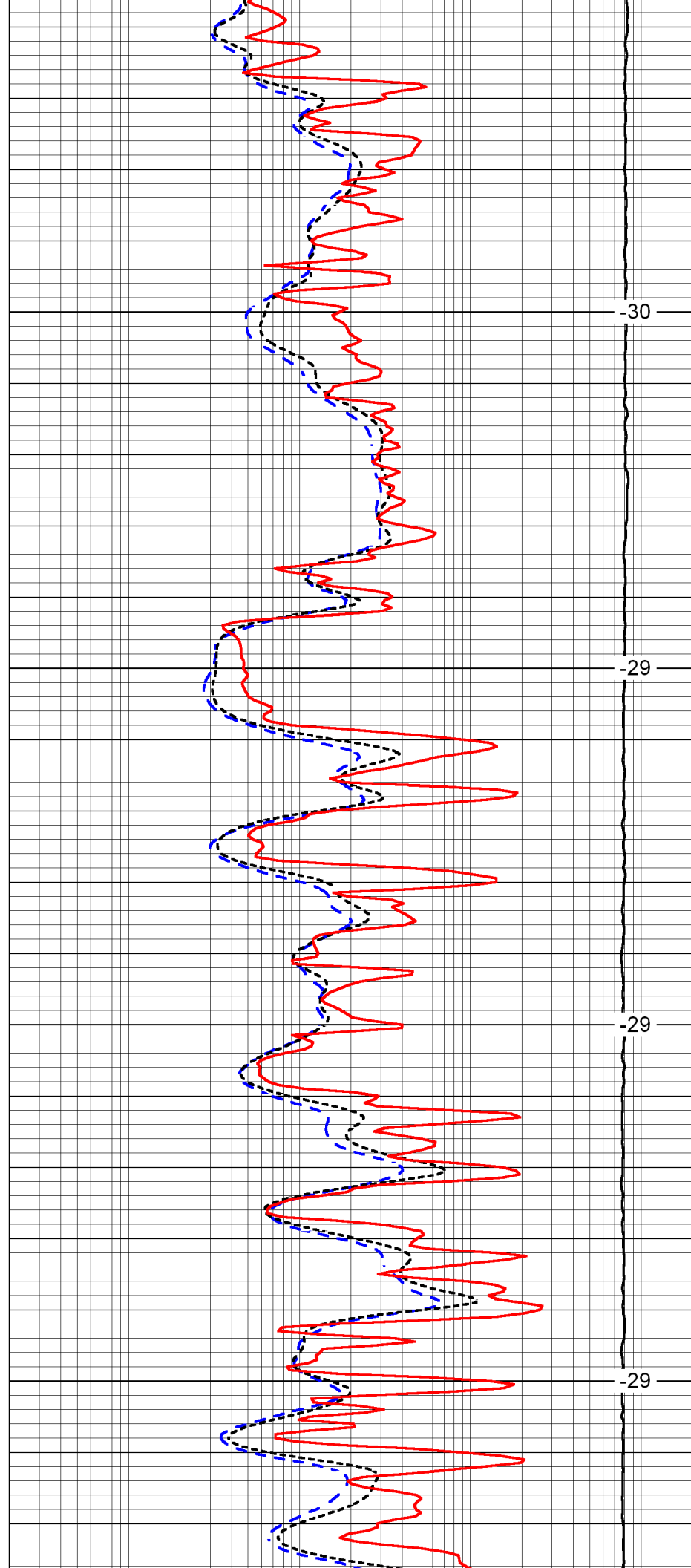


3400

3450

3500

3550

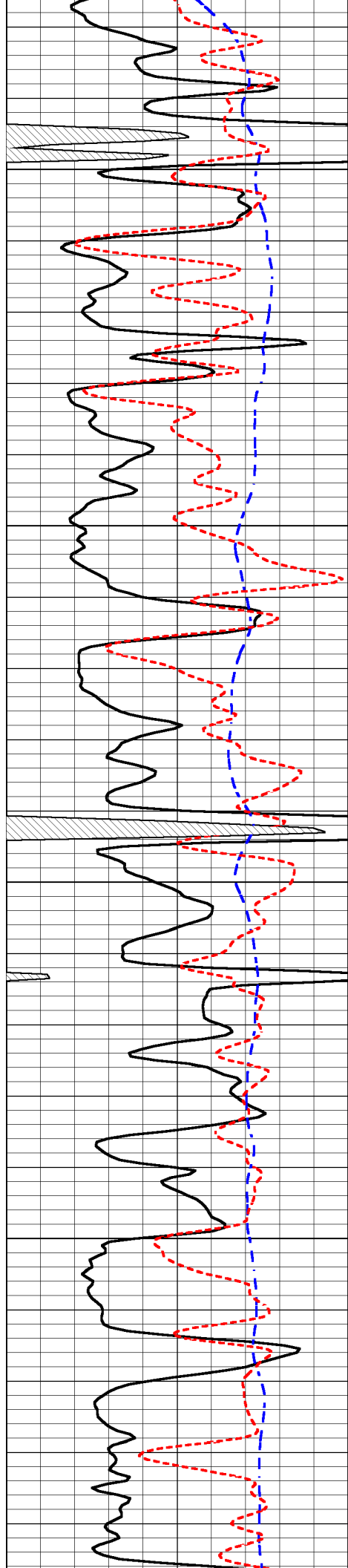


-30

-29

-29

-29

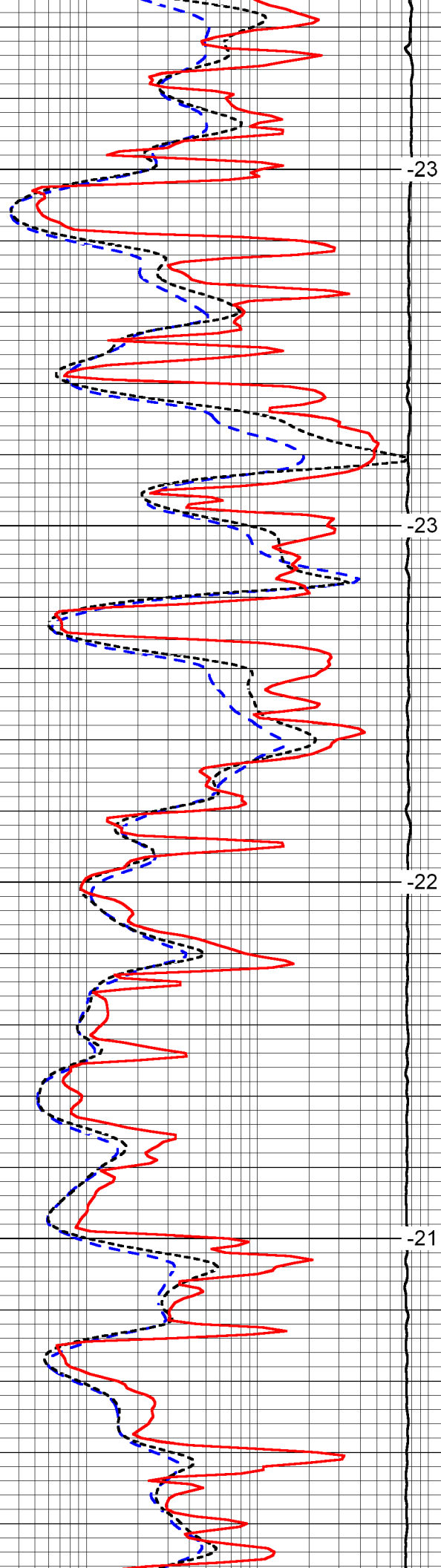


3600

3650

3700

3750



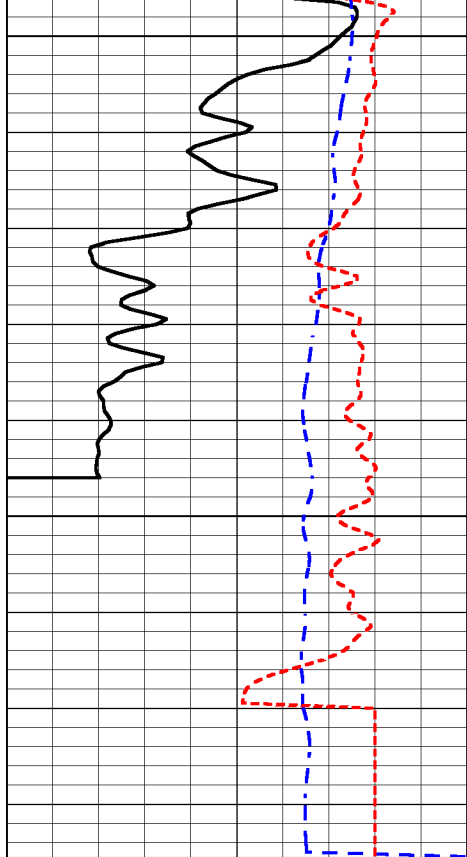
-23

-23

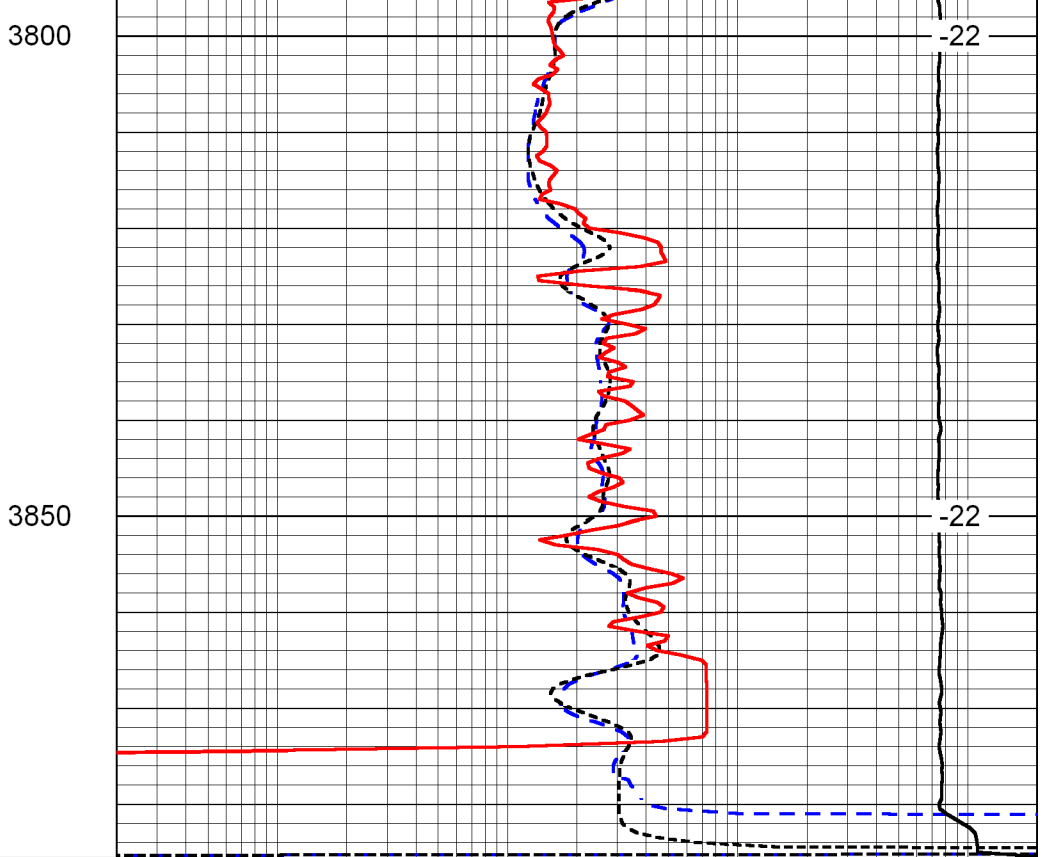
-22

-21





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



0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD



Pioneer Energy Services

# Dual Compensated Porosity Log

15-051-26773-00-00

Company **Pioneer Resources**  
 Well **Schmeidler-Amrein Unit #1**  
 Field **Crathorne East**  
 County **Ellis** State **Kansas**

Location **SE SE SW SW  
 90' FSL & 1065' FWL**  
 Sec: **21** Twp: **12S** Rge: **19W**

Other Services  
 DIL  
 MEL

Permanent Datum **Ground Level** Elevation **2159**  
 Log Measured From **Kelly Bushing** 5 Ft. Above Perm. Datum  
 Drilling Measured From **Kelly Bushing**

K.B. **2164**  
 D.F. **2159**  
 G.L. **2159**

Date	4/28/2015				Elevation	
Run Number	One					
Type Log	CNL / CDL					
Depth Driller	3882					
Depth Logger	3881					
Bottom Logged Interval	3860					
Top Logged Interval	3150					
Type Fluid In Hole	Chemical					
Salinity, PPM CL	5000					
Density	9.5					
Level	Full					
Max. Rec. Temp. F	115					
Operating Rig Time	3 Hours					
Equipment -- Location	91 Hays					
Recorded By	D. Schmidt					
Witnessed By	Janel Staab					
Borehole Record			Casing Record			
Run No	Bit	From	To	Size	Wgt. 24#	To
1	12.25	00	217	8.625		217
2	7.875	217	3882			

<<< 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 Pioneer Energy Services  
 www.pioneerres.com  
 785 625 3858  
 Hays,  
 West on I-70 to Yocemento Rd,  
 4 1/2 North to Locust Grove, 3/4 West,  
 North into

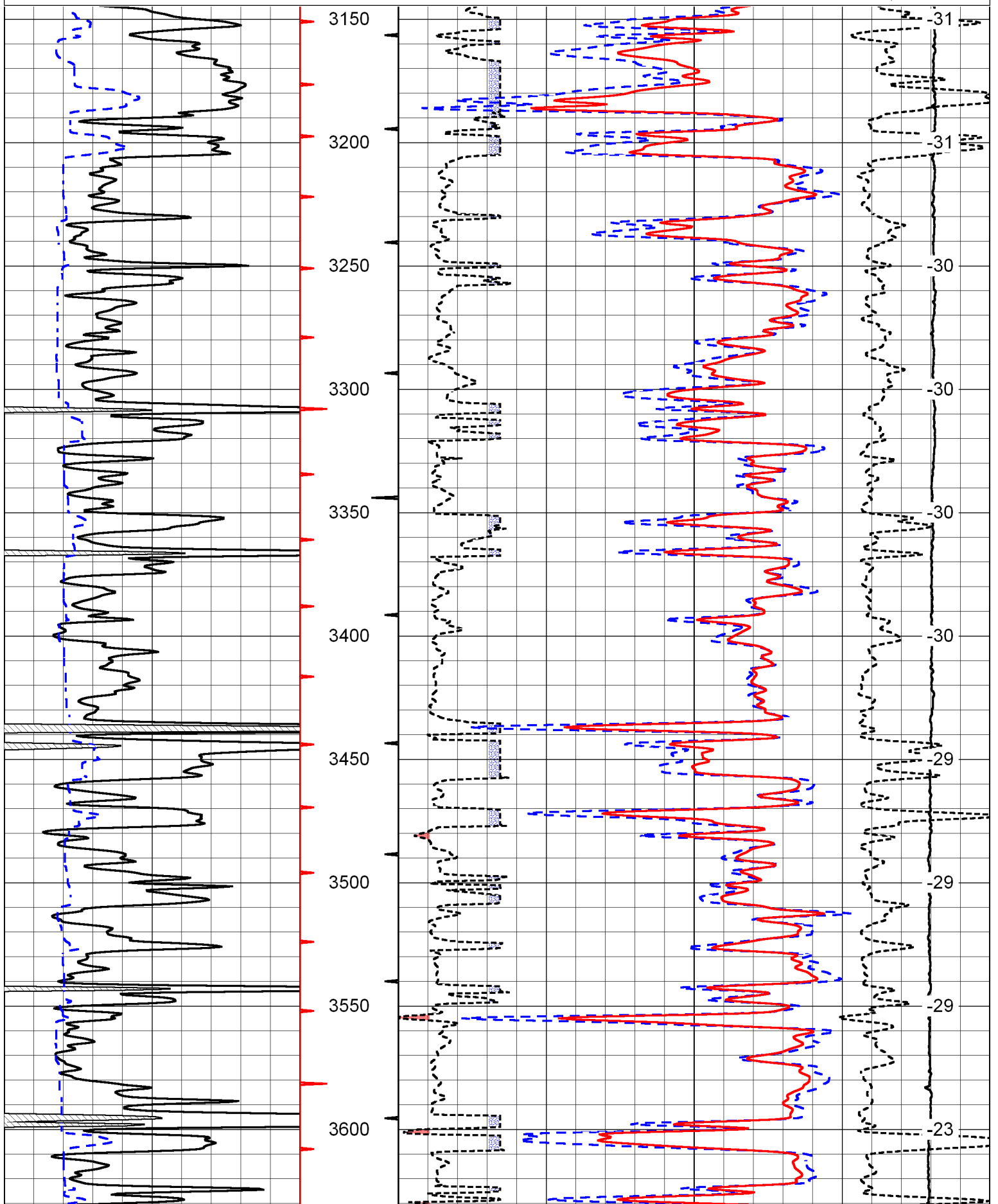
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 Charted by Depth in Feet scaled 1:600

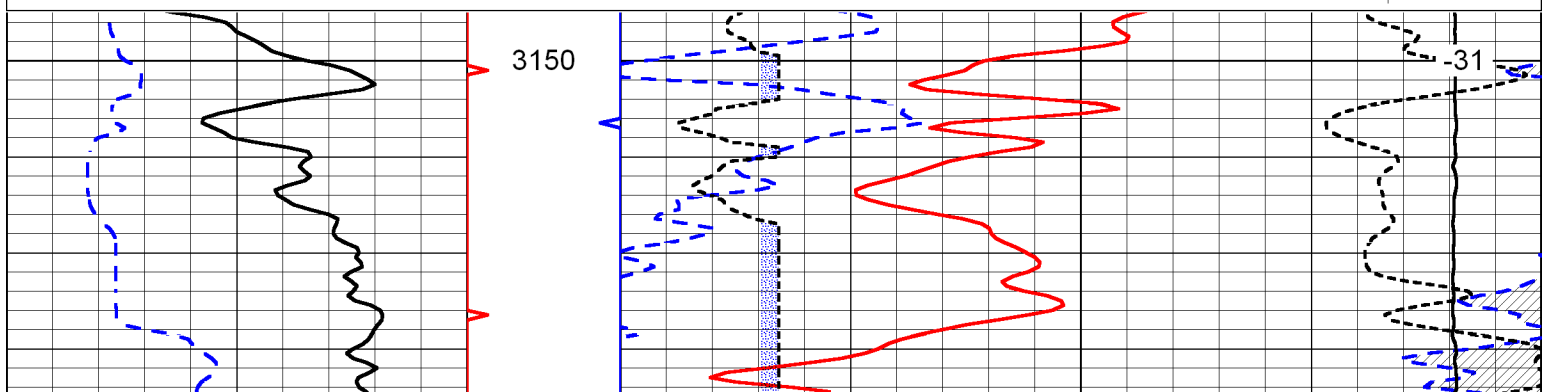
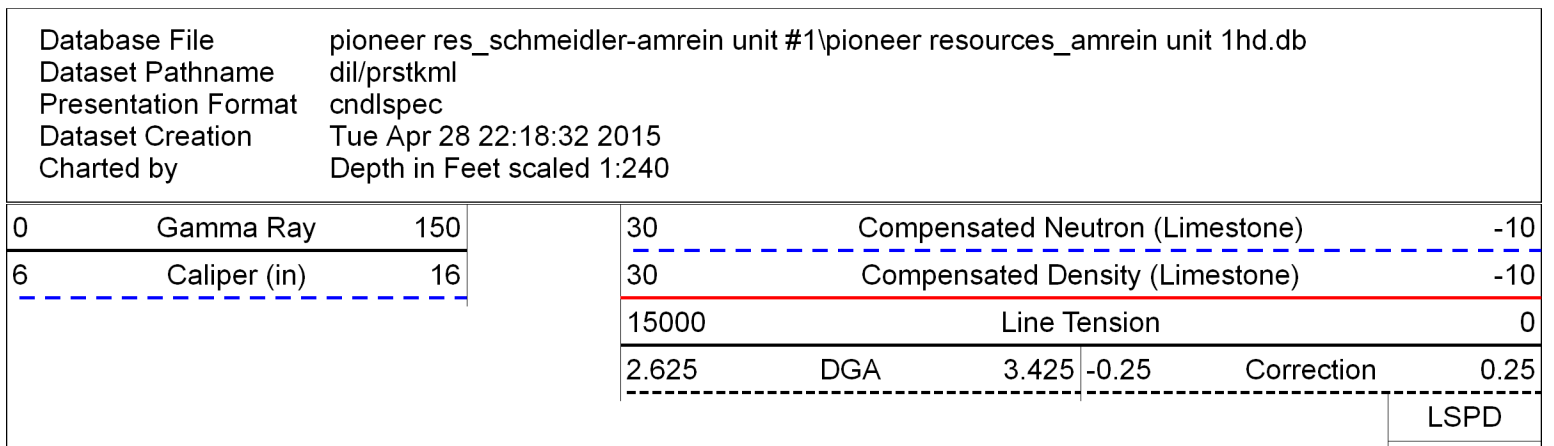
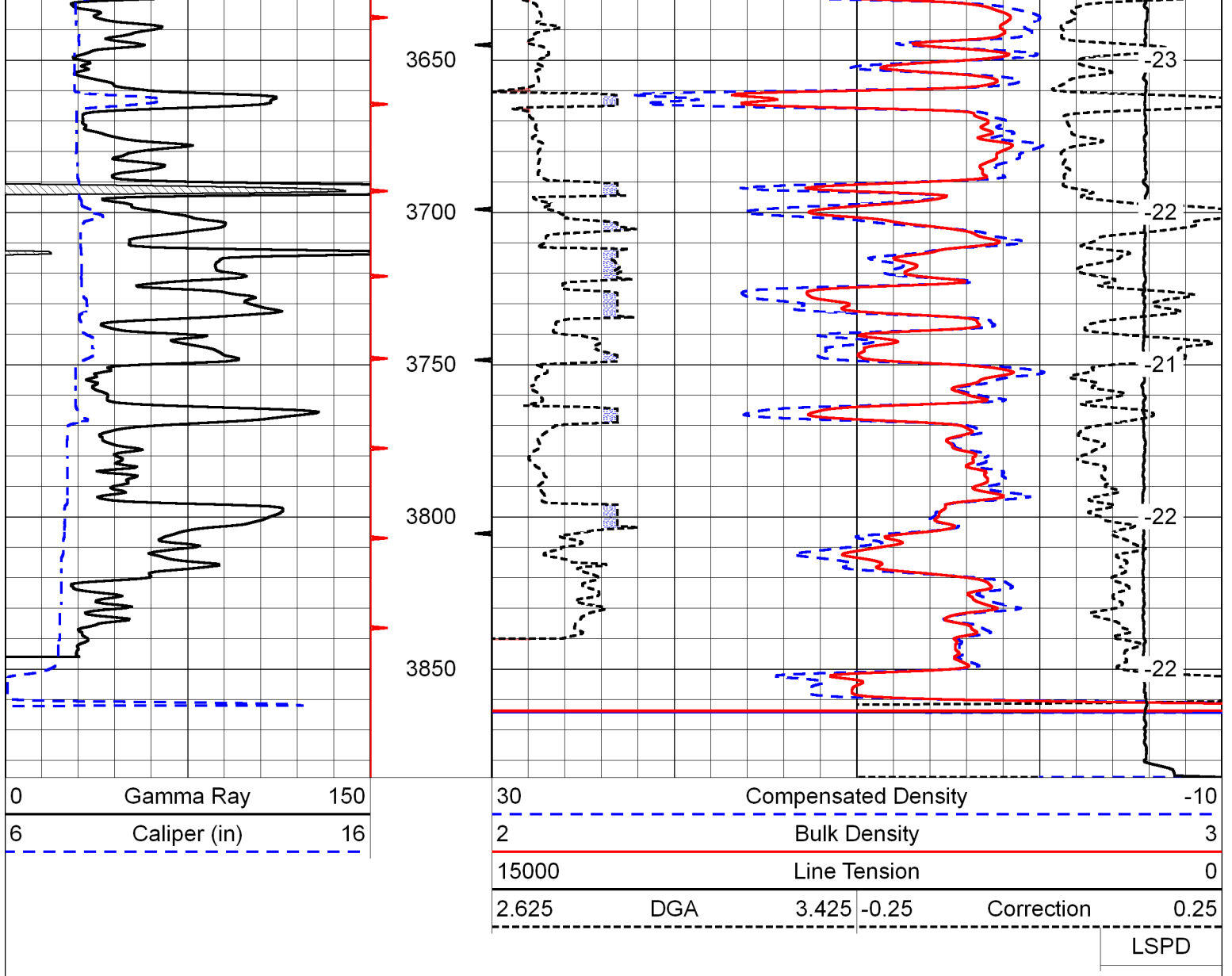


0	Gamma Ray	150
6	Caliper (in)	16

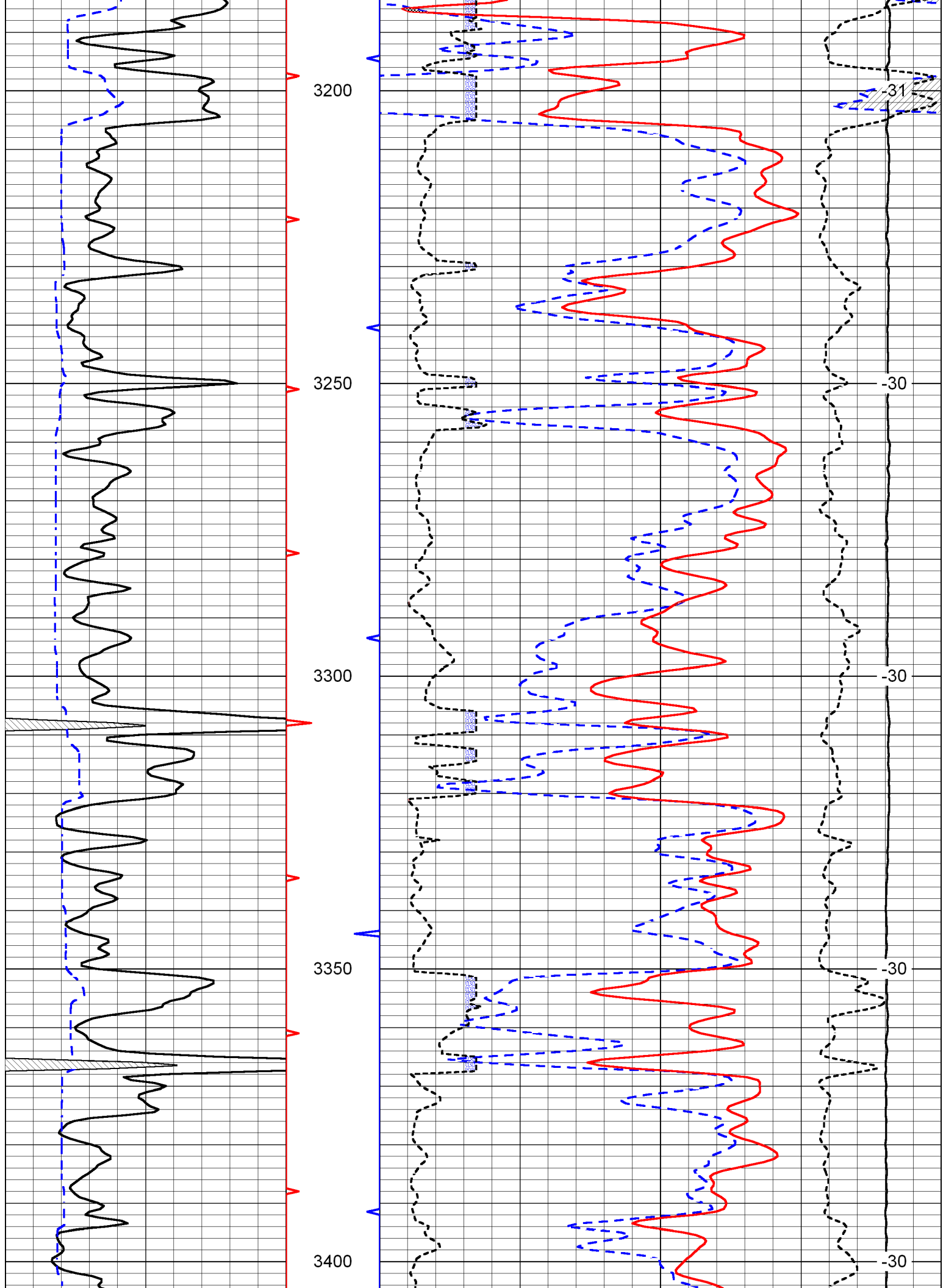
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425 -0.25	Correction 0.25

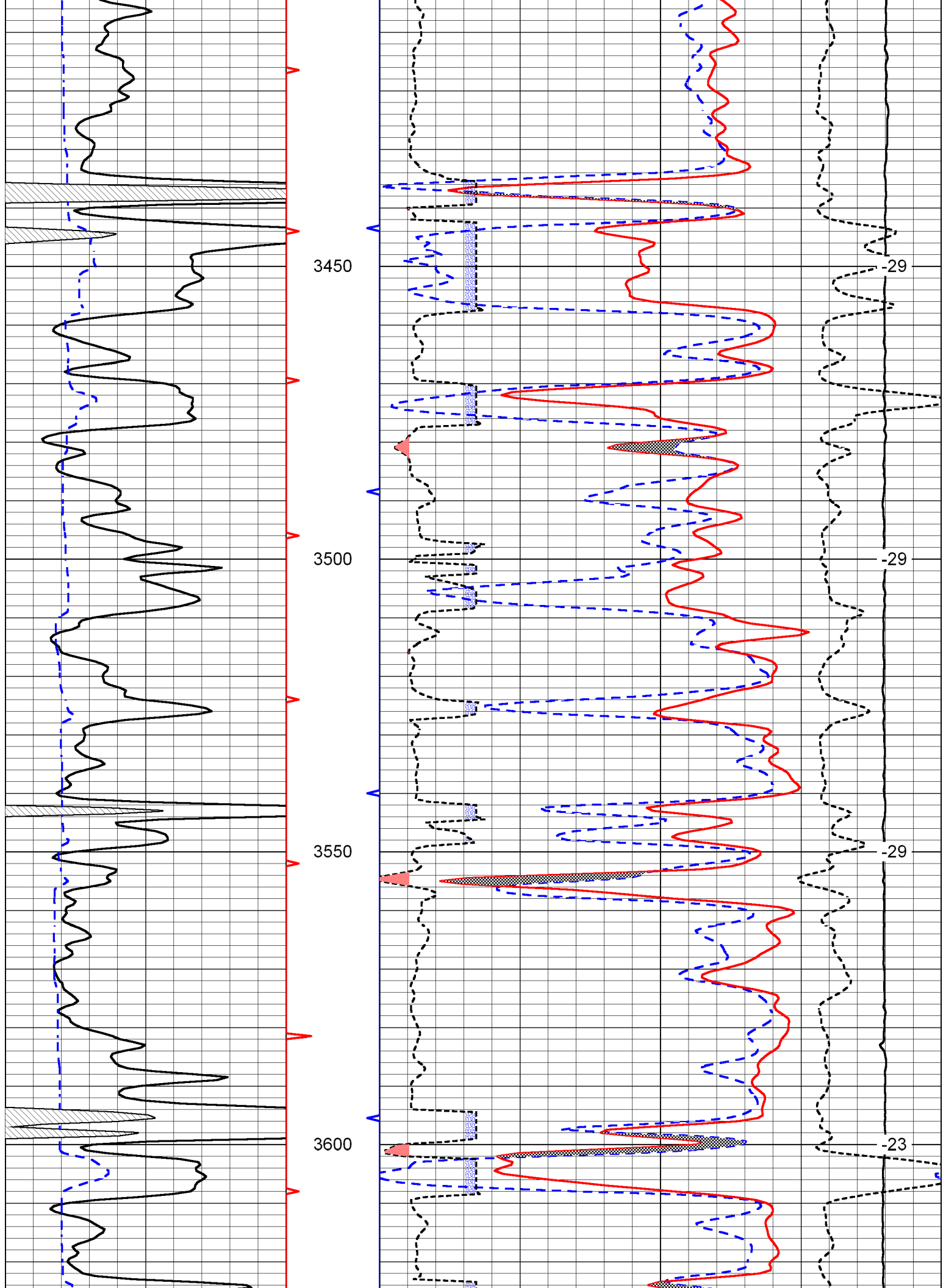
LSPD



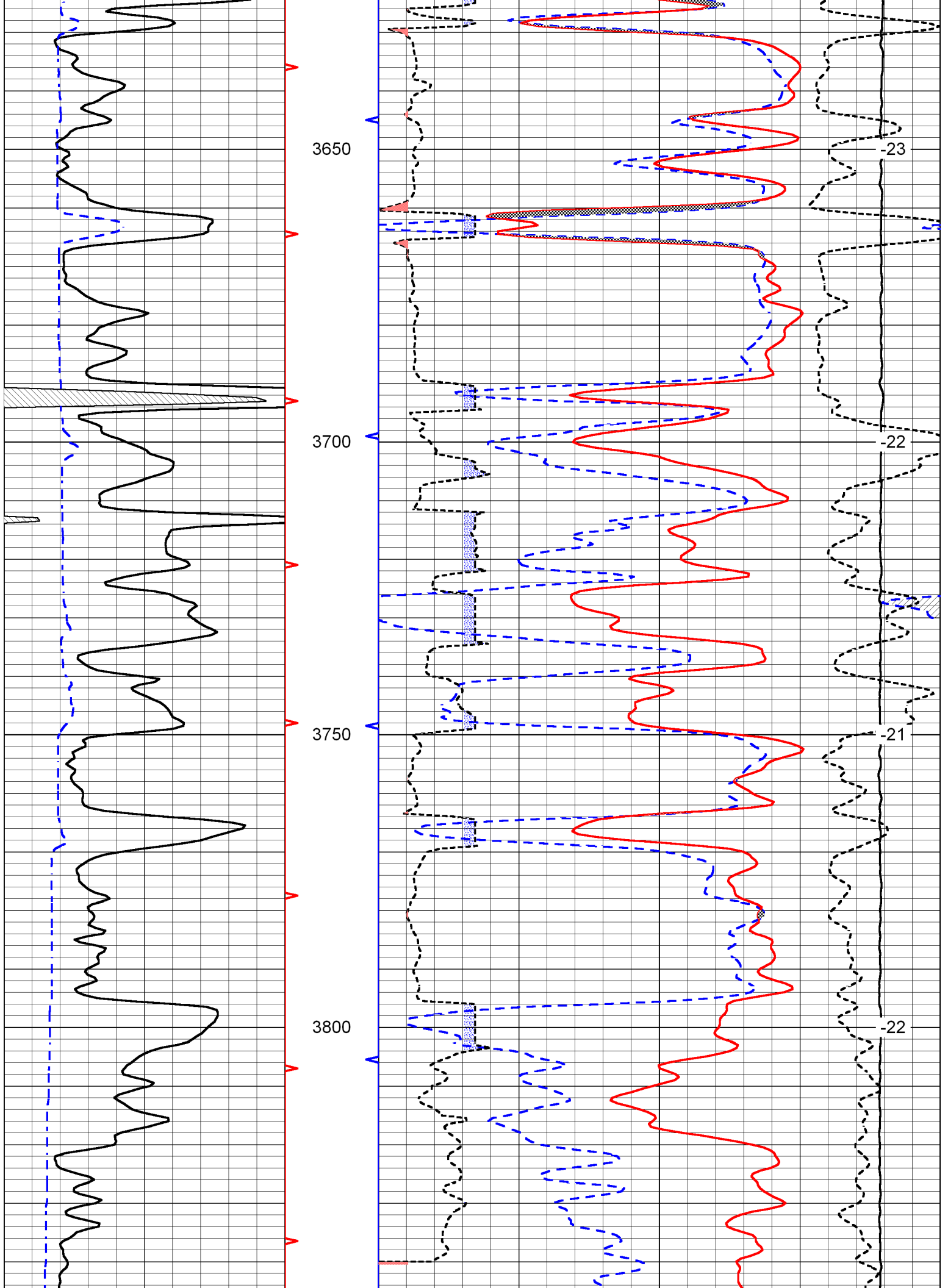


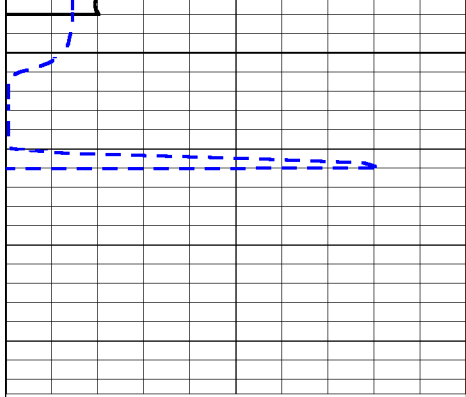




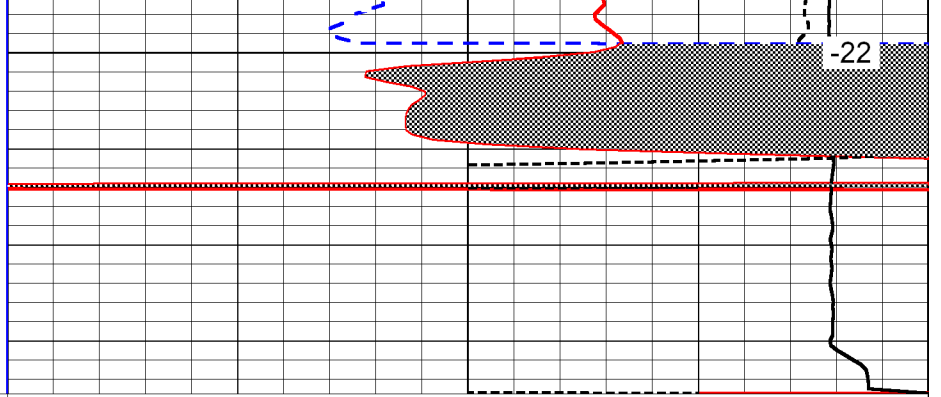








3850



-22

0	Gamma Ray	150
6	Caliper (in)	16

30	Compensated Neutron (Limestone)	-10
30	Compensated Density (Limestone)	-10

15000	Line Tension	0
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2.625	DGA	3.425	-0.25	Correction	0.25
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LSPD





Pioneer Energy Services

# Microresistivity Log

15-051-26773-00-00

Company **Pioneer Resources**  
 Well **Schmeidler-Amrein Unit #1**  
 Field **Crathorne East**  
 County **Ellis** State **Kansas**

Location **SE SE SW SW  
 90' FSL & 1065' FWL**

Sec: **21** Twp: **12S** Rge: **19W**

Other Services  
 CNL/CDL  
 DIL

Elevation

K.B. 2164  
 D.F. 2159  
 G.L. 2159

Date	4/28/2015	
Run Number	One	
Depth Driller	3882	
Depth Logger	3881	
Bottom Logged Interval	3880	
Top Log Interval	3150	
Casing Driller	8.625 @ 217	
Casing Logger	220	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity, ppm CL	5000	
Density / Viscosity	9.5 65	
pH / Fluid Loss	10.5 7.6	
Source of Sample	Flowline	
Rm @ Meas. Temp	0.70 @ 60	
Rmf @ Meas. Temp	0.53 @ 60	
Rmc @ Meas. Temp	0.95 @ 60	
Source of Rmf / Rmc	Charts	
Rm @ BHT	0.37 @ 115	
Operating Rig Time	3 Hours	
Max Rec. Temp. F	115	
Equipment Number	91	
Location	Hays	
Recorded By	D. Schmidt	
Witnessed By	Janel Staab	

<<< Fold Here >>>

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### Comments

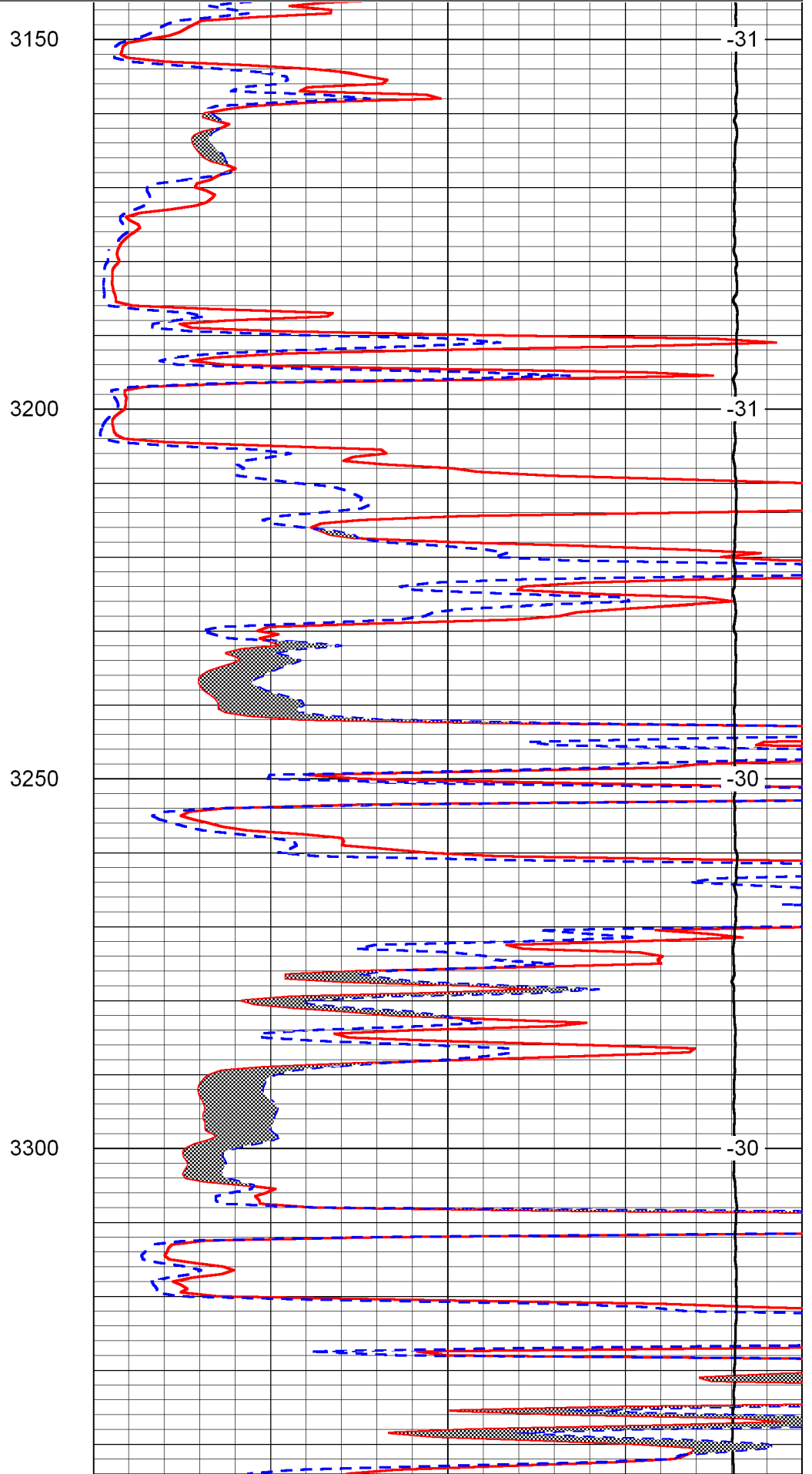
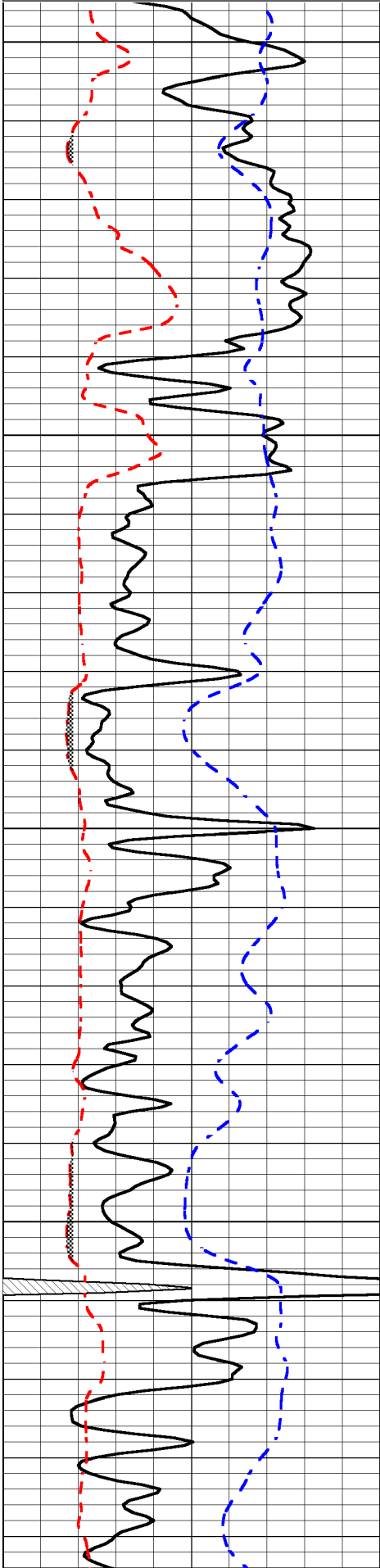
Thank you for using Pioneer Energy Services  
 www.pioneerres.com  
 785 625 3858  
 Hays,  
 West on I-70 to Yocemento Rd,  
 4 1/2 North to Locust Grove, 3/4 West,  
 North into

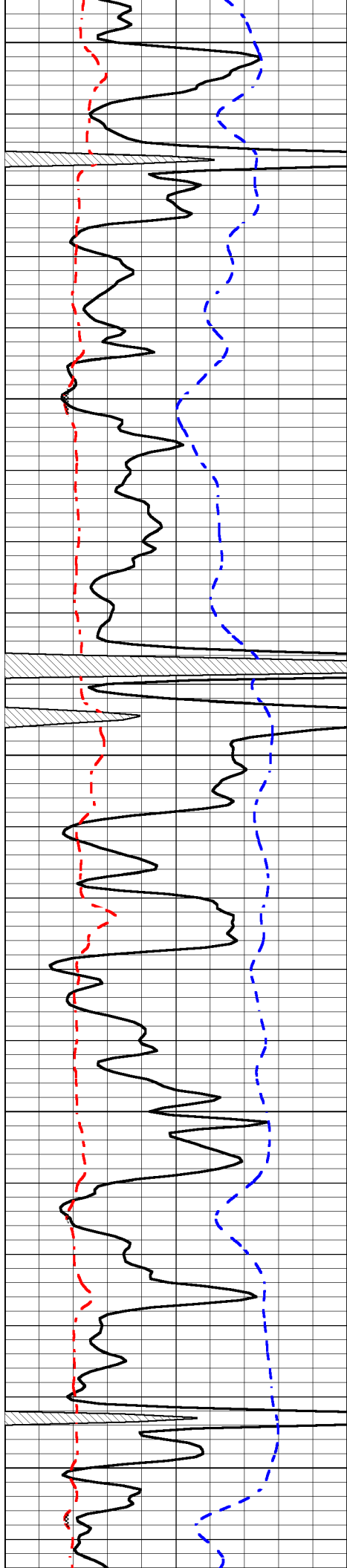
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 Dataset Pathname dil/prstkml  
 Presentation Format micro  
 Dataset Creation Tue Apr 28 22:18:32 2015  
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray	150
6	MCAL (in)	16
-200	SP (mV)	0

0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
15000	Line Weight	0

LSPD





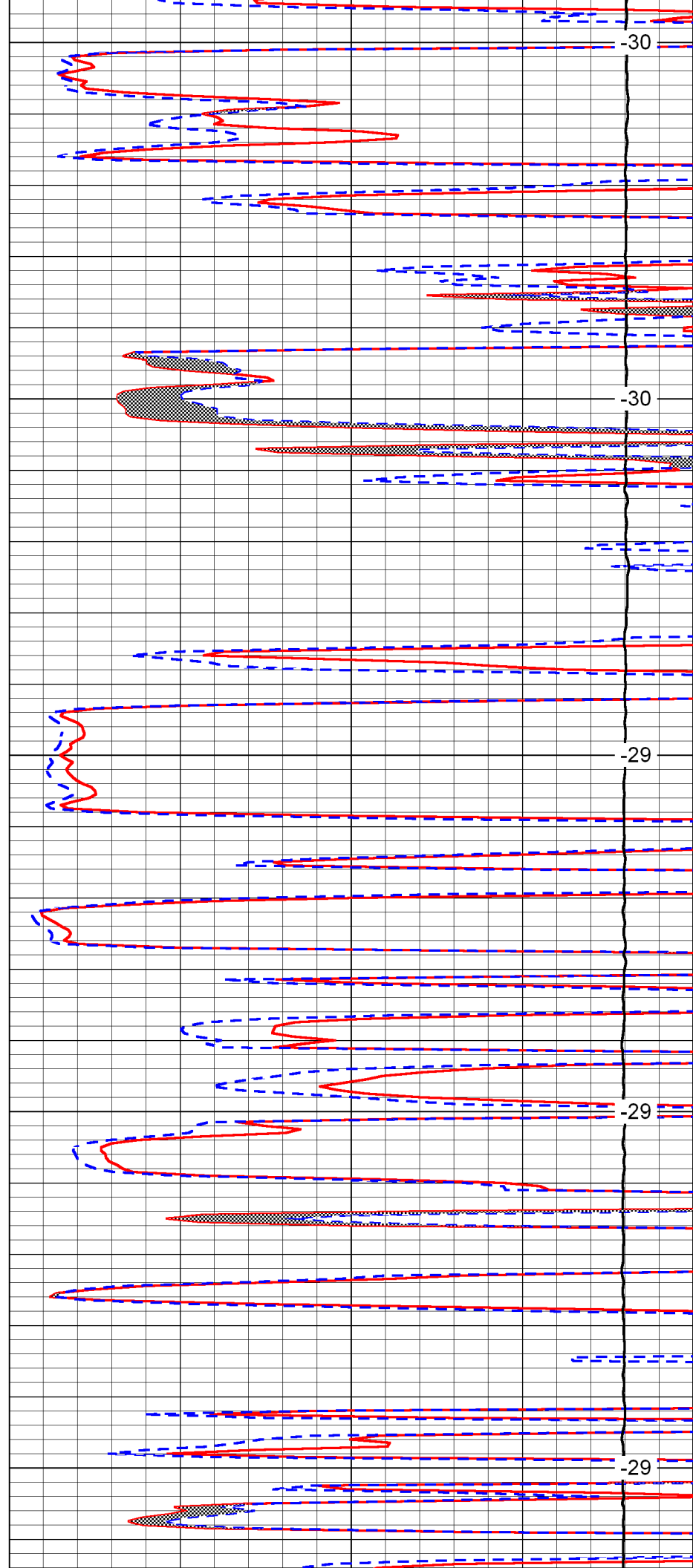
3350

3400

3450

3500

3550



-30

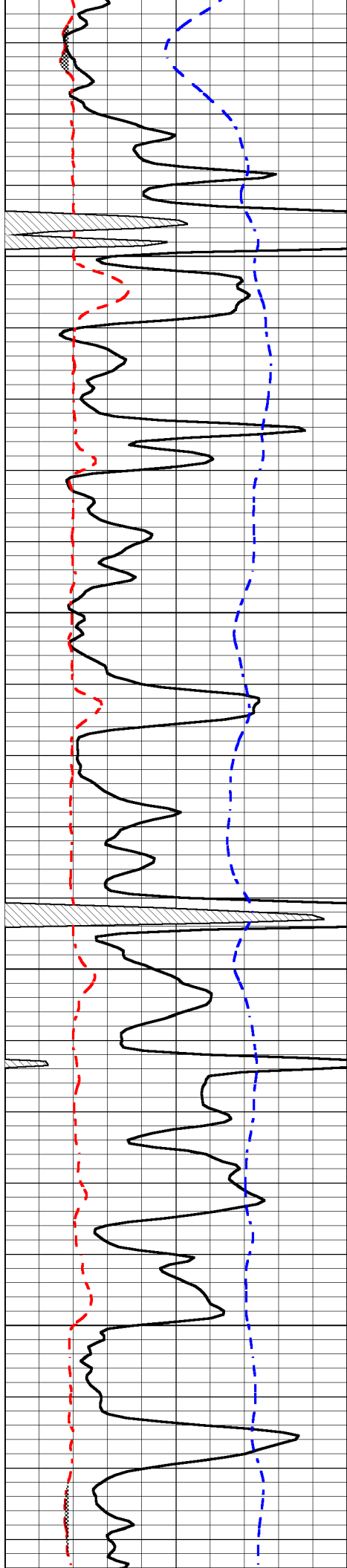
-30

-29

-29

-29



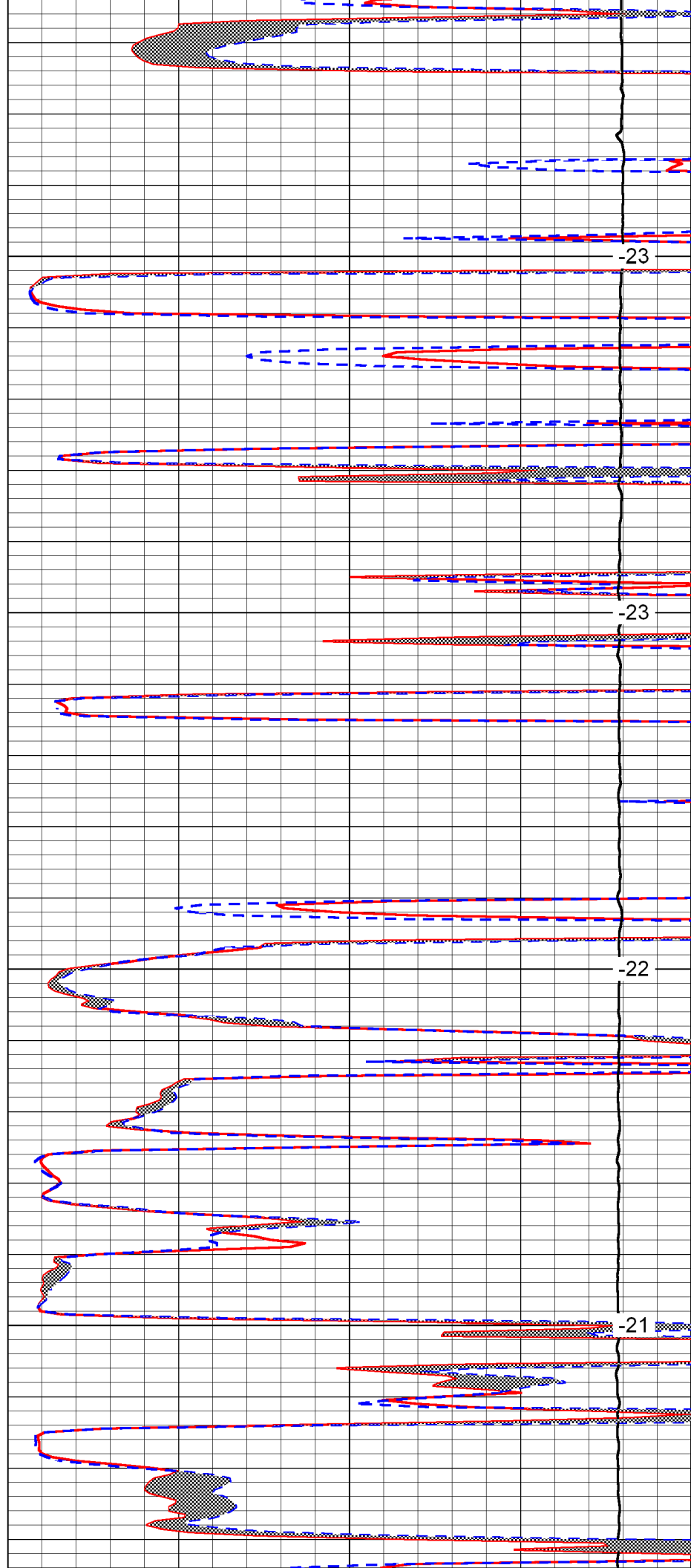


3600

3650

3700

3750

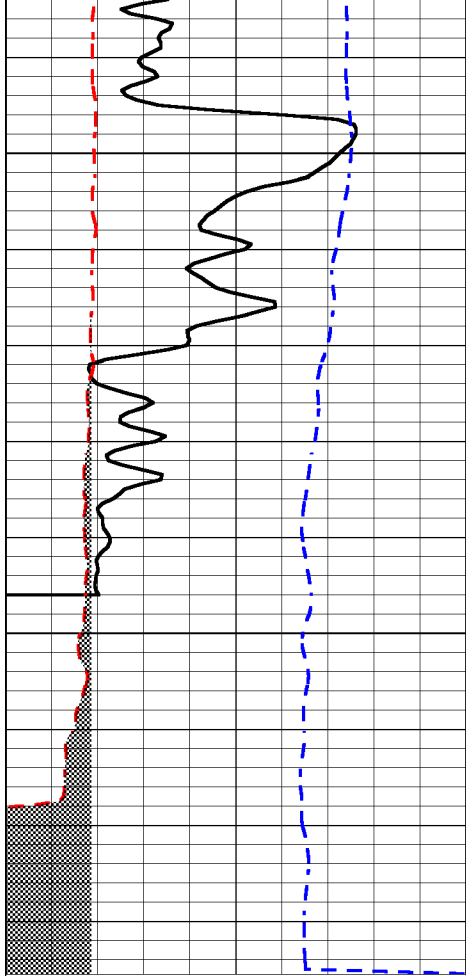


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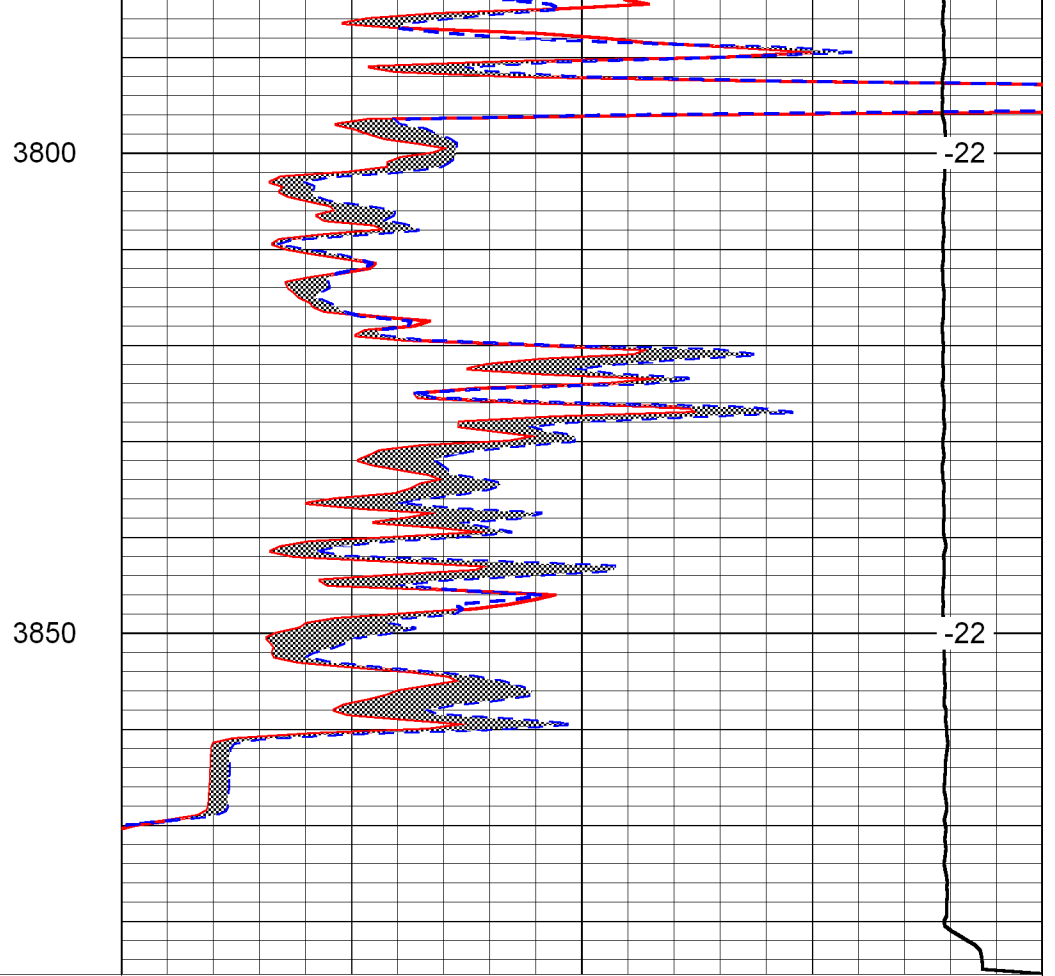
-23

-22

-21



0	Gamma Ray	150
6	MCAL (in)	16
-200	SP (mV)	0



0	Micro Inverse 1 X 1	40
0	Micro Normal 2''	40
15000	Line Weight	0

LSPD

# GLOBAL CEMENTING, L.L.C.

1654

REMIT TO 18048 170RD  
RUSSELL, KS 67665

SERVICE POINT: Russell, US

DATE <u>4-22-15</u>	SEC. <u>21</u>	TWP. <u>12S</u>	RANGE <u>19W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>3:00AM</u>
LEASE <u>Schmeidler Amrein</u>	WELL #. <u>1</u>	LOCATION			COUNTY <u>Ellis</u>	STATE <u>US</u>	
OLD OR NEW (CIRCLE ONE)							

CONTRACTOR Shields Drilling

TYPE OF JOB Surface

HOLE SIZE 12 3/4 T.D. 220

CASING SIZE 8 5/8 DEPTH 210.63

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX 200psi MINIMUM 0psi

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 2054

PERFS

DISPLACEMENT 200 12 3/4 bbl

EQUIPMENT

PUMP TRUCK CEMENTER Heath

# 82 HELPER Heath

BULK TRUCK DRIVER

# 84

BULK TRUCK DRIVER

#

OWNER

CEMENT AMOUNT ORDERED 150x com 3%CC

2%gel

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

REMARKS:

Run 5 JTS of 8 5/8 cas. 19 and landing it

est Circulation

Hook up and mix 150x and disp 12 3/4 bbl H2O - Shut in @ 200psi

Cement did circulate

CHARGE TO: Pioneer Resources

STREET 80 windmill Dr

CITY Phillipburg STATE Ks ZIP 67661

Global Cementing, L.L.C.,  
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.

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

@

@

@

@

TOTAL



# GLOBAL CEMENTING, L.L.C.

1661

REMIT TO 18048 170RD  
RUSSELL, KS 67665

SERVICE POINT:

RUSSELL, KS

DATE 4-29-15	SEC. 21	TWP. 12S	RANGE 19W	CALLED OUT	ON LOCATION 12:30PM	JOB START 5AM	JOB FINISH 6AM
LEASE SHEIDLER HRIEIN	WELL#. 1	LOCATION			COUNTY ELLIS	STATE KS	
OLD OR <u>NEW</u> (CIRCLE ONE)							

CONTRACTOR SHEIDERS DRILLING

TYPE OF JOB DRY HOLE PLUG

HOLE SIZE 7 1/8 T.D. 3820'

CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS \_\_\_\_\_

DISPLACEMENT \_\_\_\_\_

EQUIPMENT \_\_\_\_\_

PUMP TRUCK CEMENTER BRAD

# P1 HELPER DEWIDOW

BULK TRUCK \_\_\_\_\_

# B3 DRIVER NATHAN

BULK TRUCK \_\_\_\_\_

# \_\_\_\_\_ DRIVER \_\_\_\_\_

OWNER \_\_\_\_\_

CEMENT AMOUNT ORDERED 305 SX 6040 POZ  
4% GEL / 1/4 FLU

COMMON \_\_\_\_\_ @ \_\_\_\_\_

POZMIX \_\_\_\_\_ @ \_\_\_\_\_

GEL \_\_\_\_\_ @ \_\_\_\_\_

CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_

ASC \_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

HANDLING \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

REMARKS: 810

1st - 3820' - 50SX

2nd - 1500' - 50SX

3rd - 810' - 100SX

4th - 265' - 50SX

5th - 40' - 10SX

RAT - 30SX

HOUSE - 15SX

CHARGE TO: PIONEER RESOURCES

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB \_\_\_\_\_

PUMP TRUCK CHARGE \_\_\_\_\_

EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

Global Cementing, L.L.C.,  
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 George Begler

SIGNATURE George Begler

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS