PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No. 15-159-22750-00-00

Company Carrie Exploration and Development

Well Doll "C" #1

Field Chase-Silica

County Rice State Kansas

Location 2300' FSL & 2300' FWL

Sec: 19 Twp: 19 S Rge: 10 W

Other Services: DIL/MEL

Permanent Datum	Ground Level
Log Measured From	Kelly Bushing 9 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing

Elevation 1769

Elevation: K.B. 1778, D.F., G.L. 1769

Date	09-15-2013
Run Number	One
Type Log	CNL / CDL
Depth Driller	3390
Depth Logger	3389
Bottom Logged Interval	3368
Top Logged Interval	2500
Type Fluid In Hole	Chemical
Salinity, PPM CL	4000
Density	9.1
Level	Full
Max. Rec. Temp. F	112
Operating Rig Time	3 1/2 Hours
Equipment -- Location	91 Hays
Recorded By	Y. Ruiz
Witnessed By	Steve Reed

Borehole Record

Run No.	Bit	From	To
One	12.25	00	296
Two	7.875	296	TD

Casing Record

Size	Wgt.	From	To
8.625	23#	00	296

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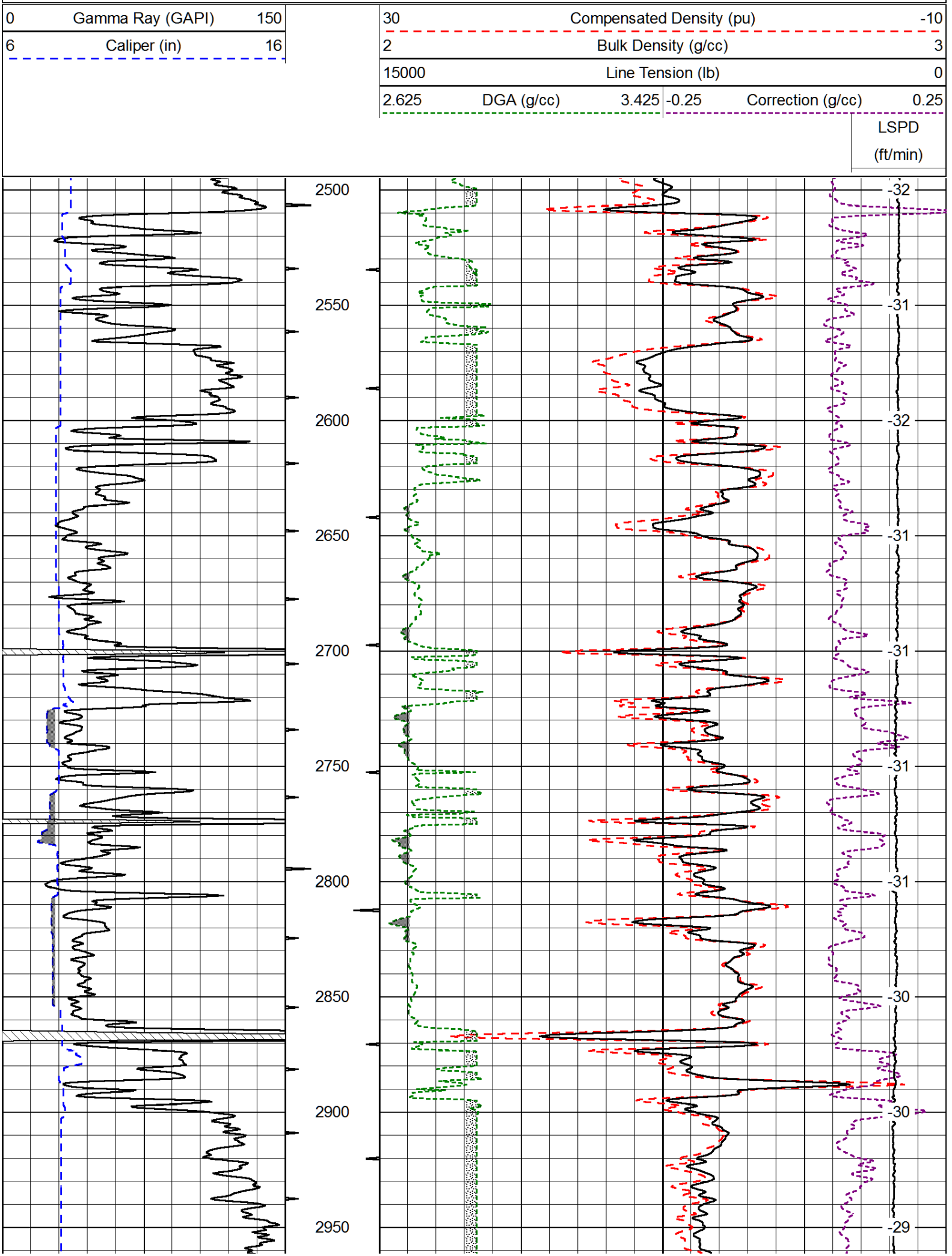
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

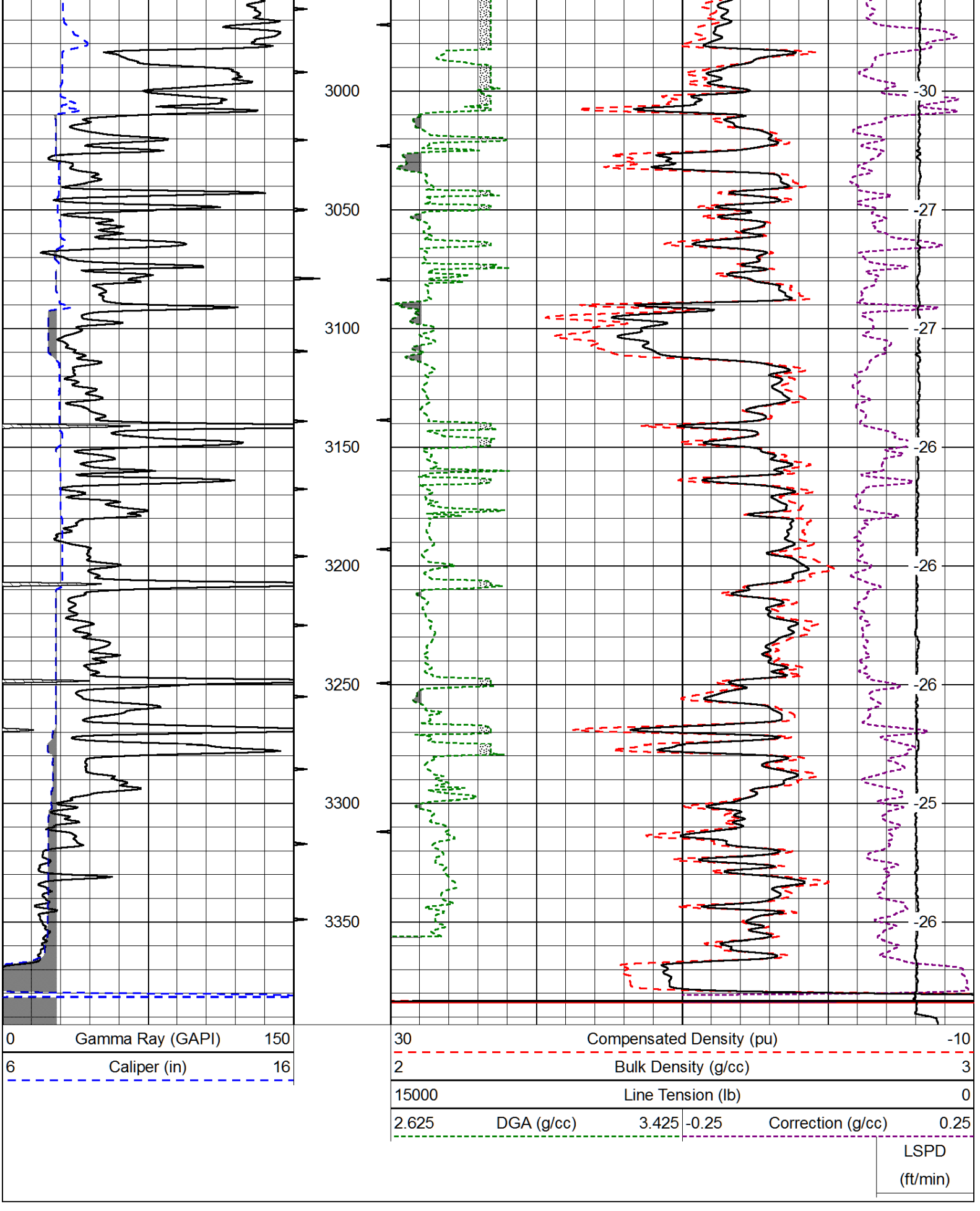
Comments

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

Ellinwood,
2 North, 1/2 East,
North into

Database File:	carrie_091513hd.db
Dataset Pathname:	dil/carriestk
Presentation Format:	cdl
Dataset Creation:	Sun Sep 15 17:22:12 2013
Charted by:	Depth in Feet scaled 1:600


0 Gamma Ray (GAPI) 150
6 Caliper (in) 16
30 Compensated Density (pu) -10
2 Bulk Density (g/cc) 3
15000 Line Tension (lb) 0
2.625 DGA (g/cc) 3.425
-0.25 Correction (g/cc) 0.25
LSPD (ft/min)
2500
2550
2600
2650
2700
2750
2800
2850
2900
2950
-32
-31
-32
-31
-31
-31
-30
-30
-29



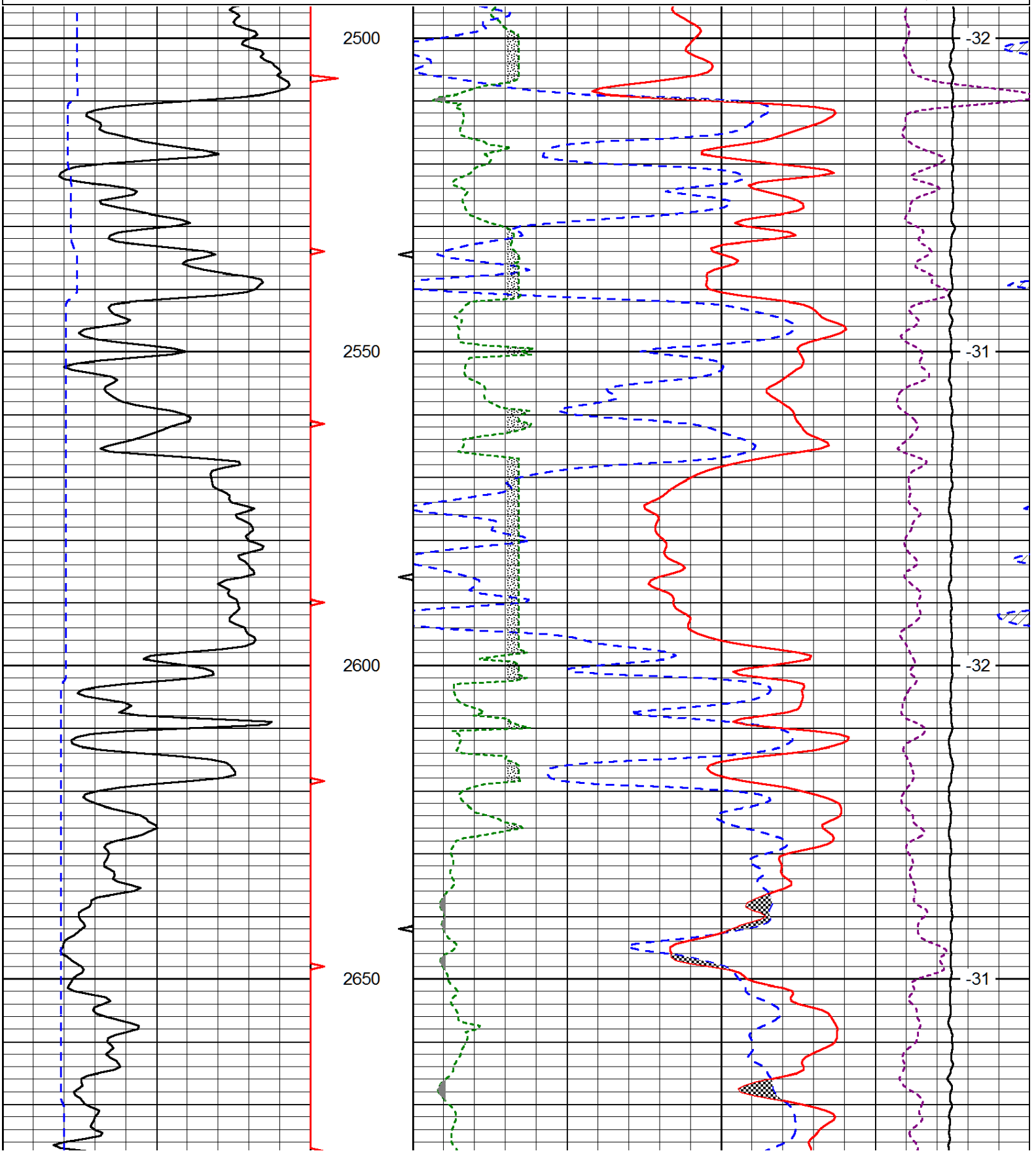
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Dataset Pathname:	dil/carriestk
Presentation Format:	cndlspec

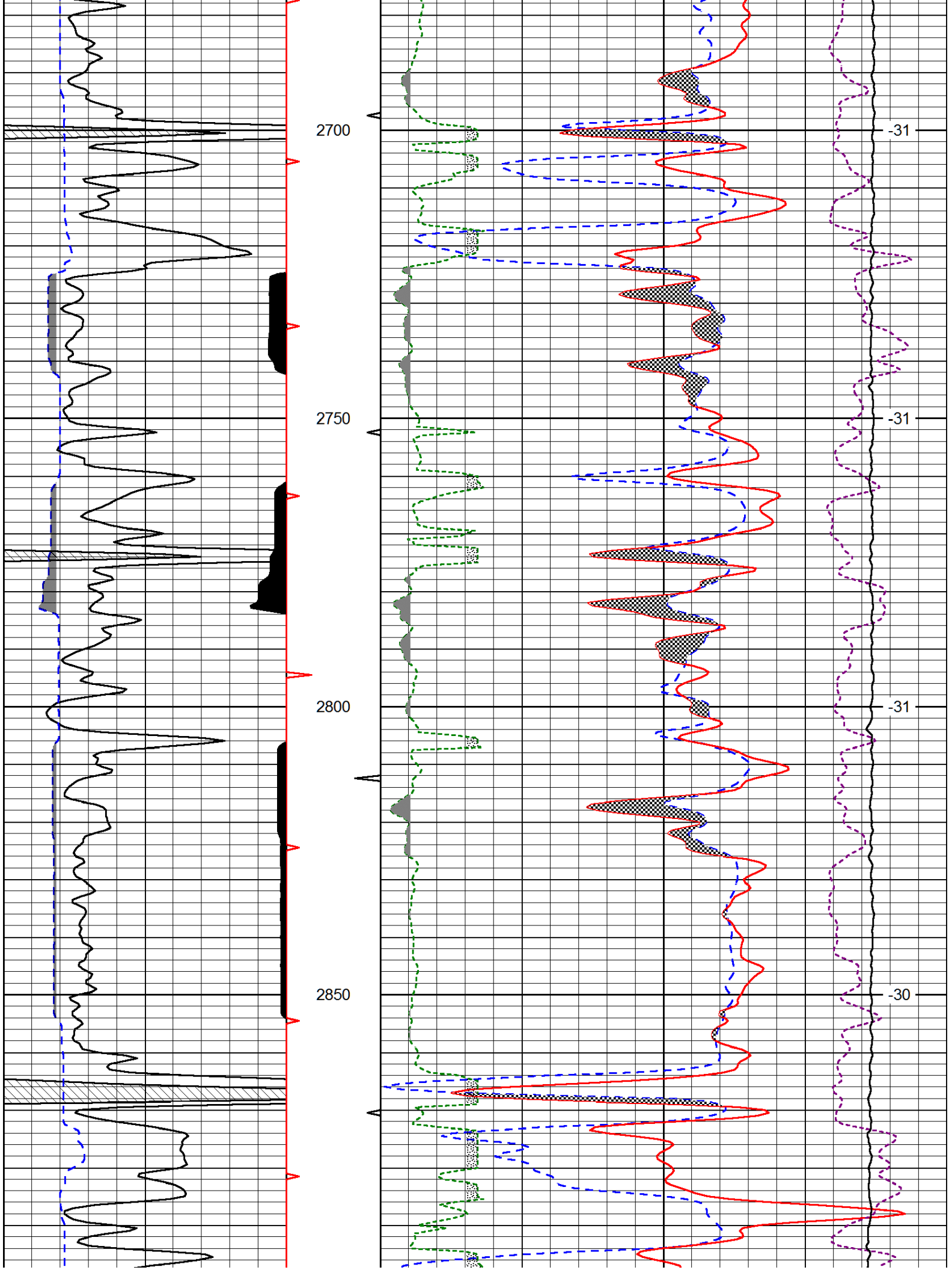
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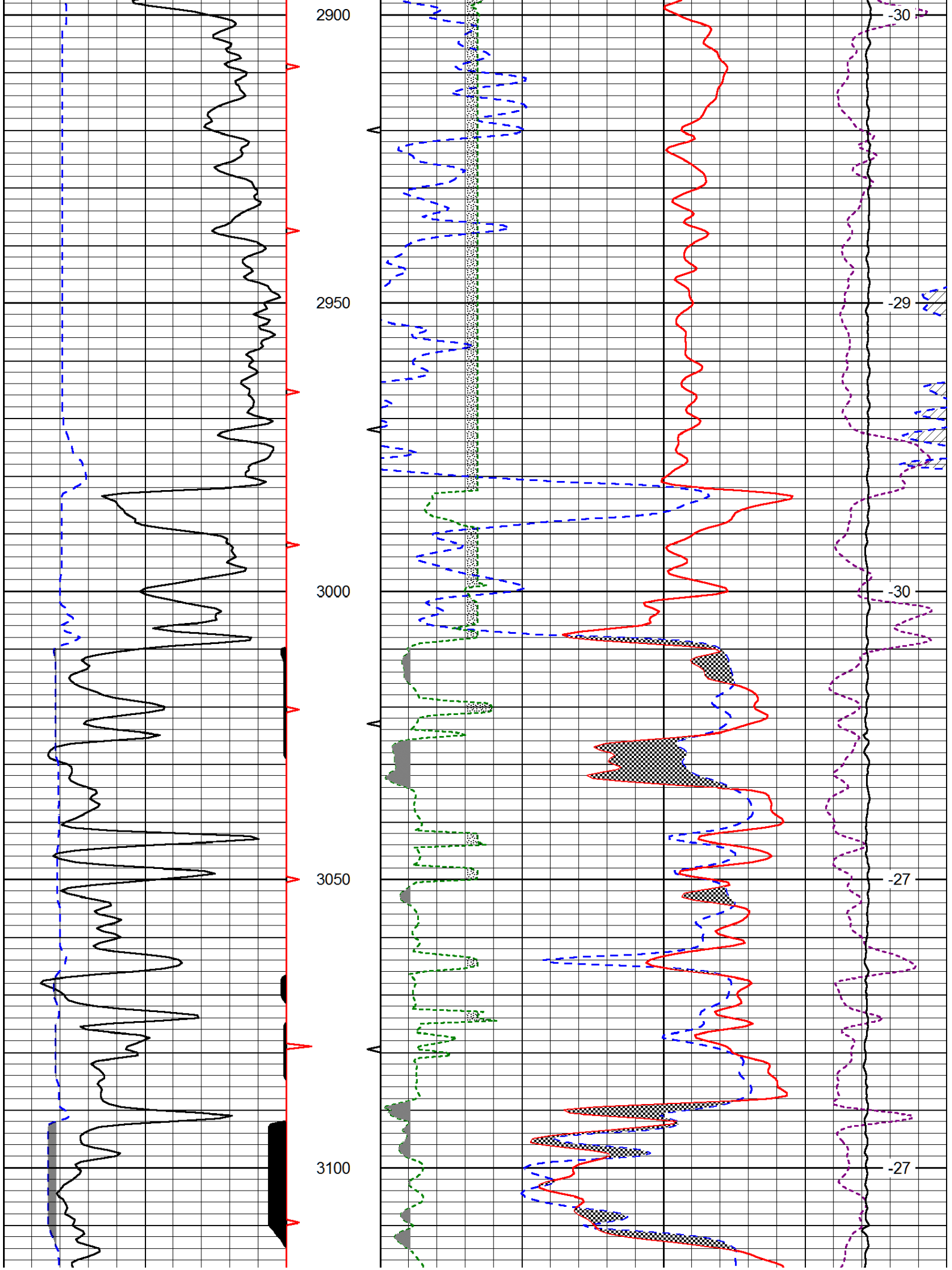
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

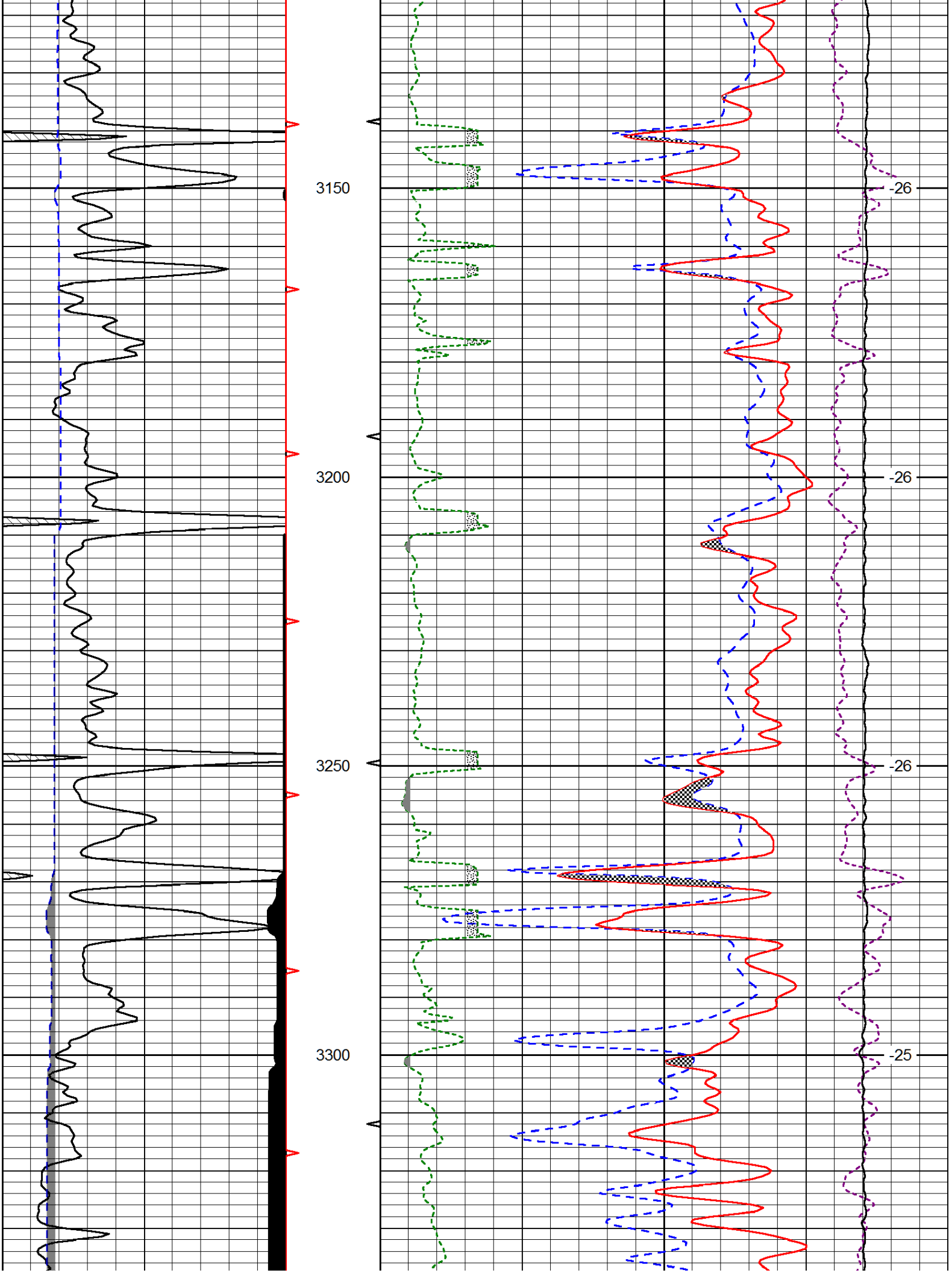
30	CNLS (pu)				-10
30	Compensated Density (2.71 ma) (pu)				-10
2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc)	0.25
10000	Line Tension (lb)				0

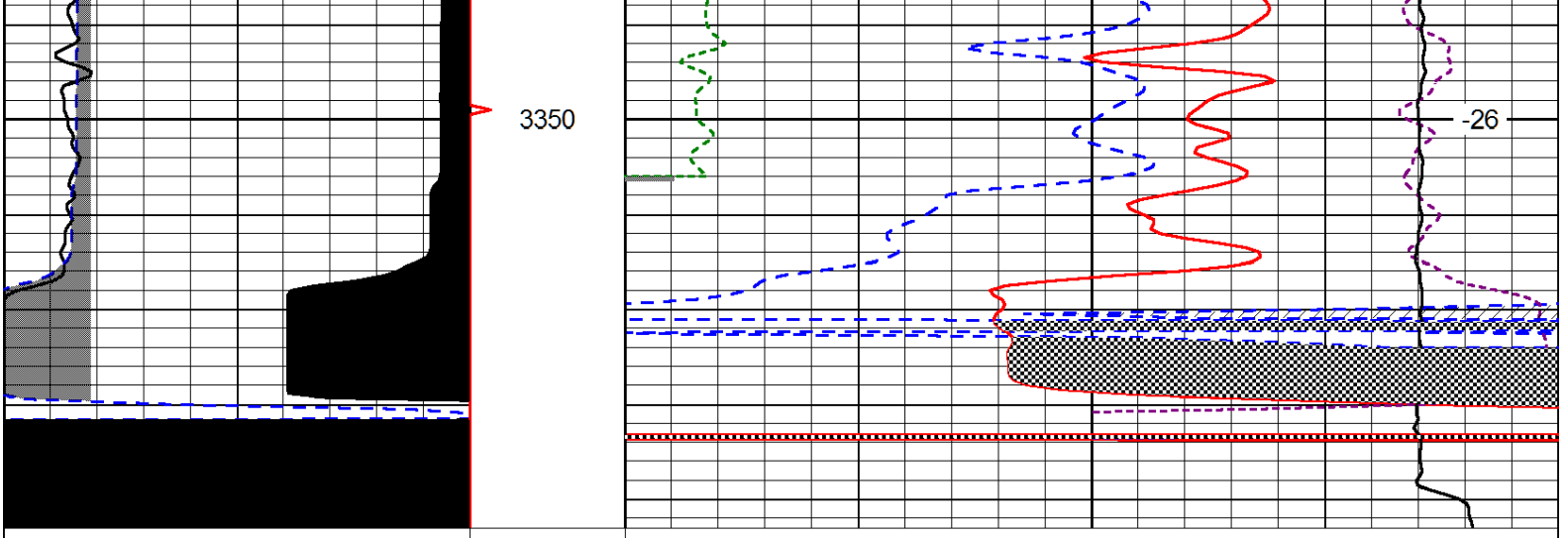
LSPD (ft/min)




2700
2750
2800
2850
-31
-31
-31
-30


2900
2950
3000
3050
3100
-30
-29
-30
-27
-27


3150
3200
3250
3300
-26
-26
-26
-25



0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

30	CNLS (pu)			-10
30	Compensated Density (2.71 ma) (pu)			-10
2.625	DGA (g/cc)	3.425	-0.25 Correction (g/cc)	0.25
10000	Line Tension (lb)			0

LSPD
(ft/min)