PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No. 15-171-20,336-00-01

Company Wausau Development Corporation

Well Suppes No. 22 - 3

Field Wildcat

County Scott State Kansas

Location 4620' FSL & 2310' FEL

Sec: 22 Twp: 19 S Rge: 31 W

Other Services: DIL/MEL

Permanent Datum	Ground Level	Elevation 2955	Elevation
Log Measured From	Kelly Bushing	9 Ft. Above Perm. Datum	K.B. 2964
Drilling Measured From	Kelly Bushing		D.F.
			G.L. 2955

Date	4/15/2013
Run Number	One
Type Log	CNL / CDL
Depth Driller	4687
Depth Logger	4686
Bottom Logged Interval	4665
Top Logged Interval	3200
Type Fluid In Hole	Chemical
Salinity, PPM CL	14300
Density	8.9
Level	Full
Max. Rec. Temp. F	123
Operating Rig Time	4 Hours
Equipment -- Location	17 Hays
Recorded By	D. Martin
Witnessed By	Dwight Brehm

Borehole Record

Run No.	Bit	From	To
One	12.25	00	330
Two	7.875	330	TD

Casing Record

Size	Wgt.	From	To
8.625	23#	00	330

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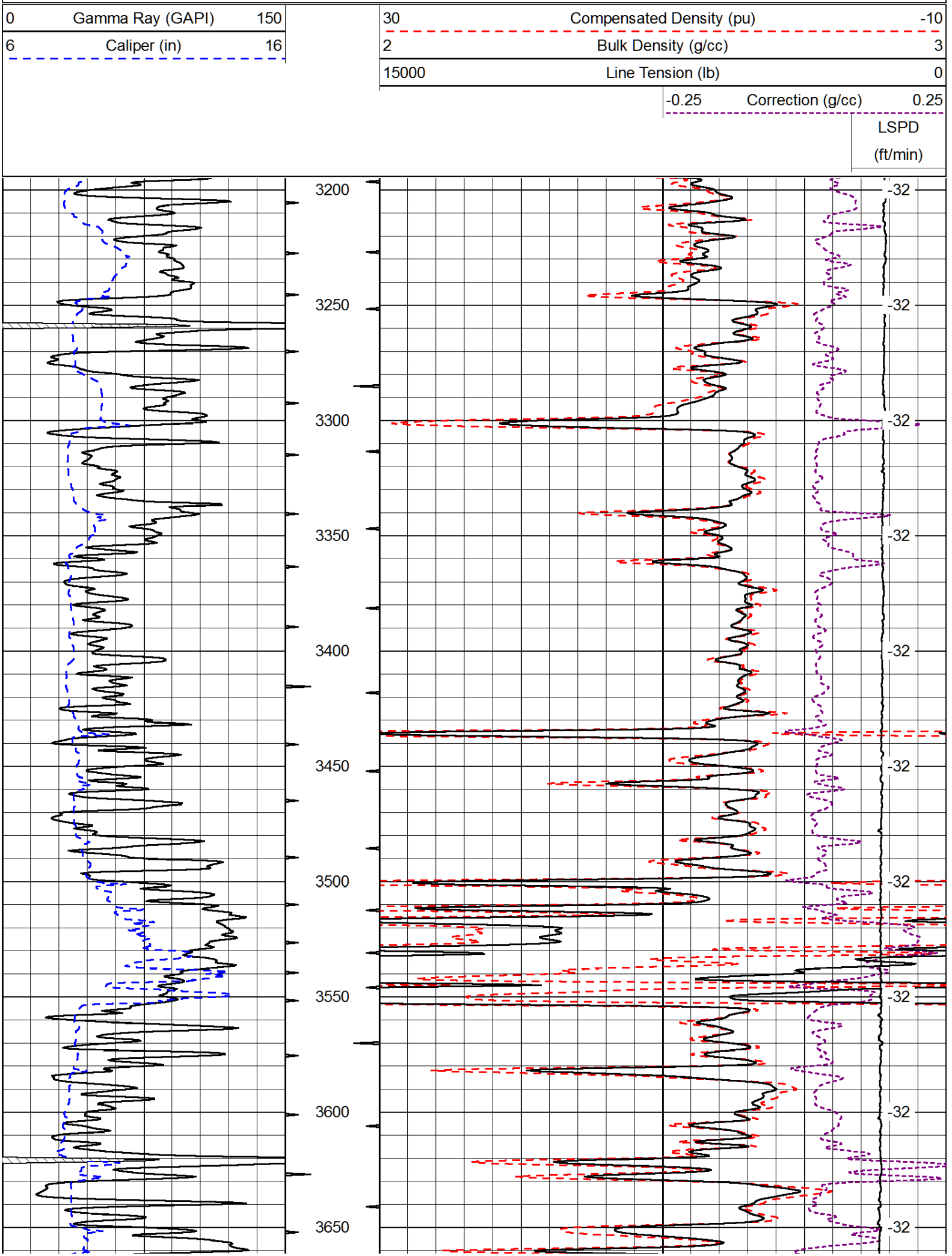
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

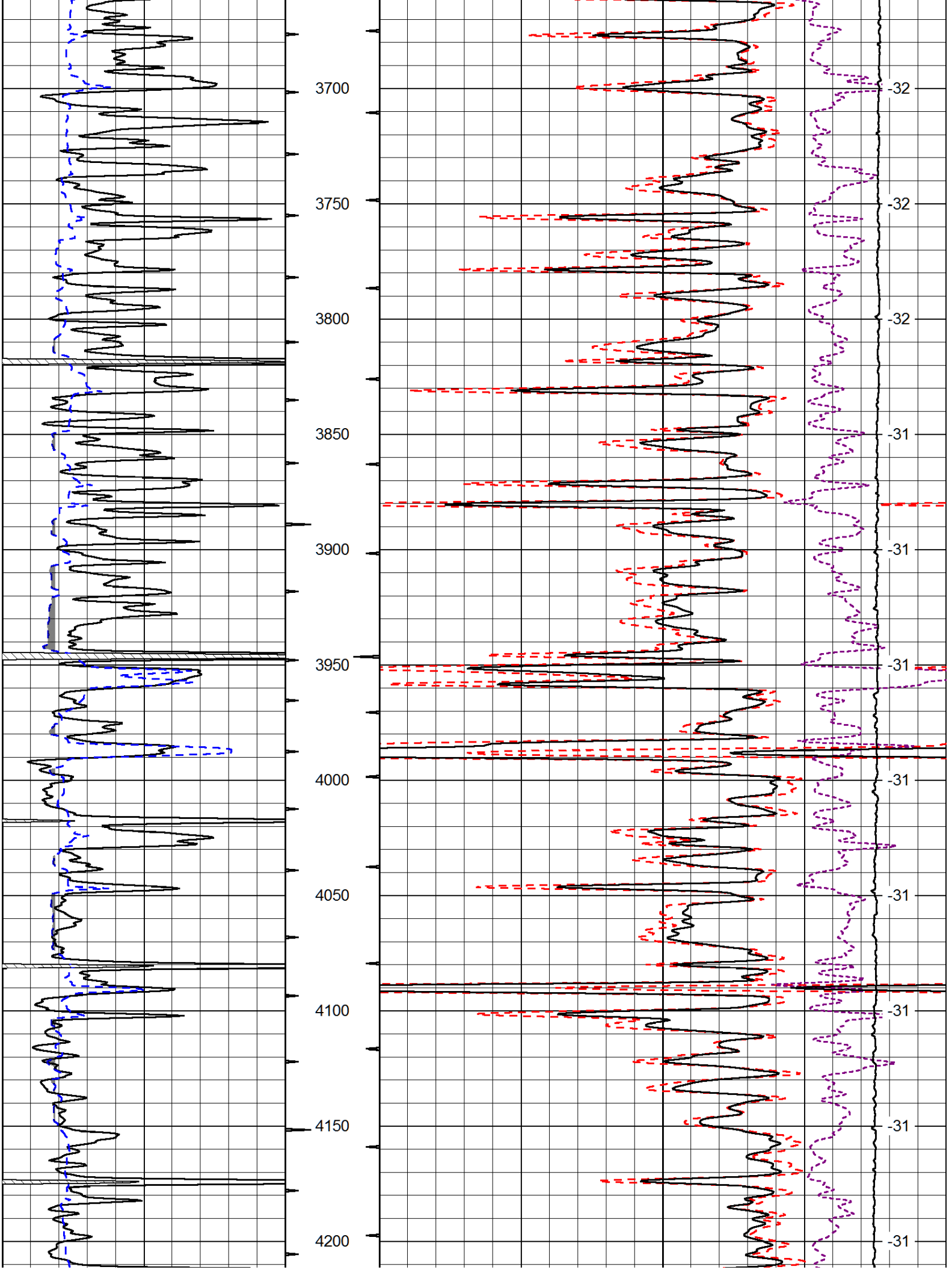
Comments

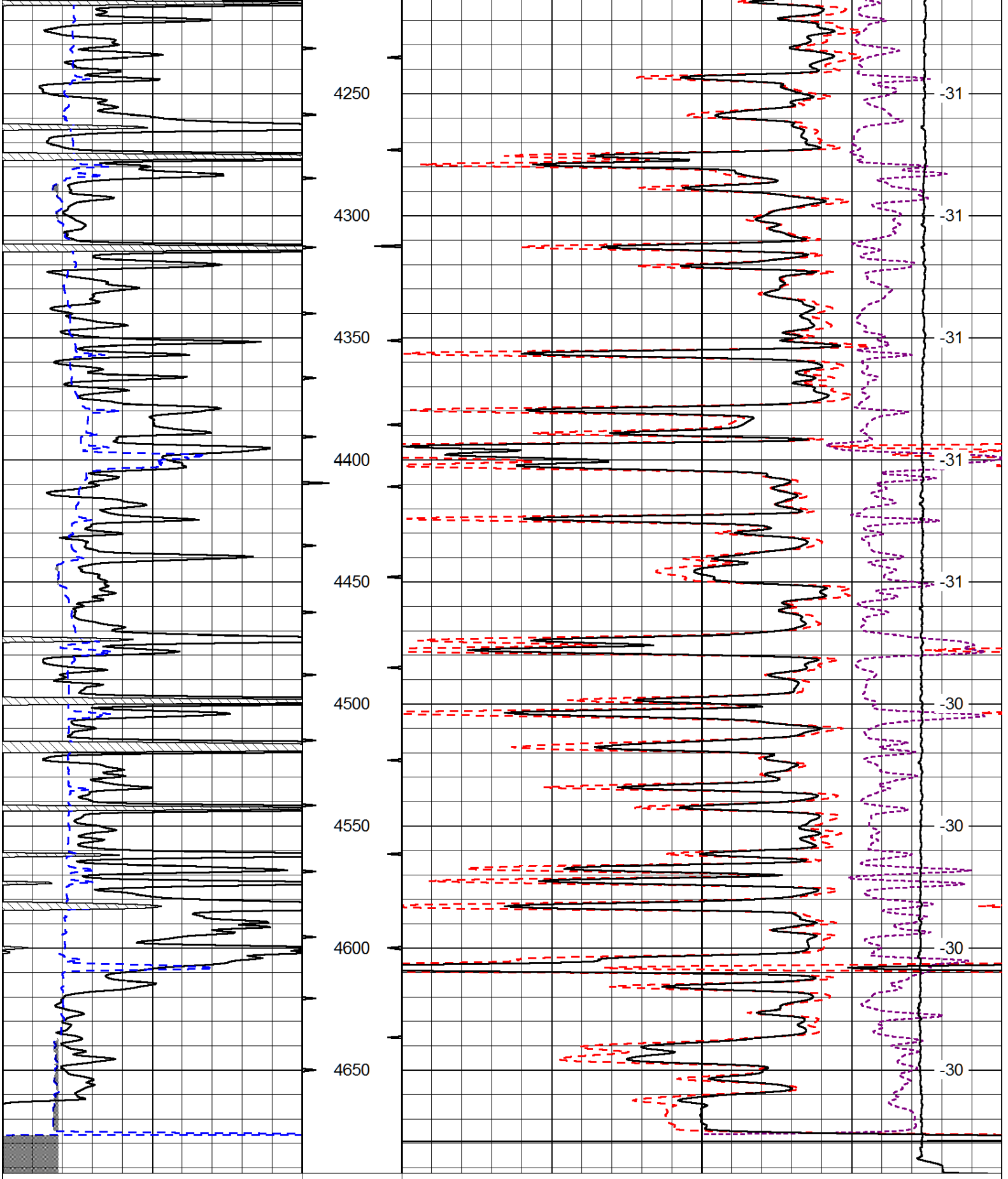
Thank you for using Log-Tech, Inc.
(785) 625-3858

Scott City, KS
5 E to Taos Rd., 5 S to "T",
1 E around curve to "T", 1/4 E, S Into

Database File:	waushd.db
Dataset Pathname:	DIL/wausstk
Presentation Format:	cdl
Dataset Creation:	Mon Apr 15 09:23:15 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
-0.25 Correction (g/cc) 0.25
LSPD
(ft/min)
3200
3250
3300
3350
3400
3450
3500
3550
3600
3650
-32

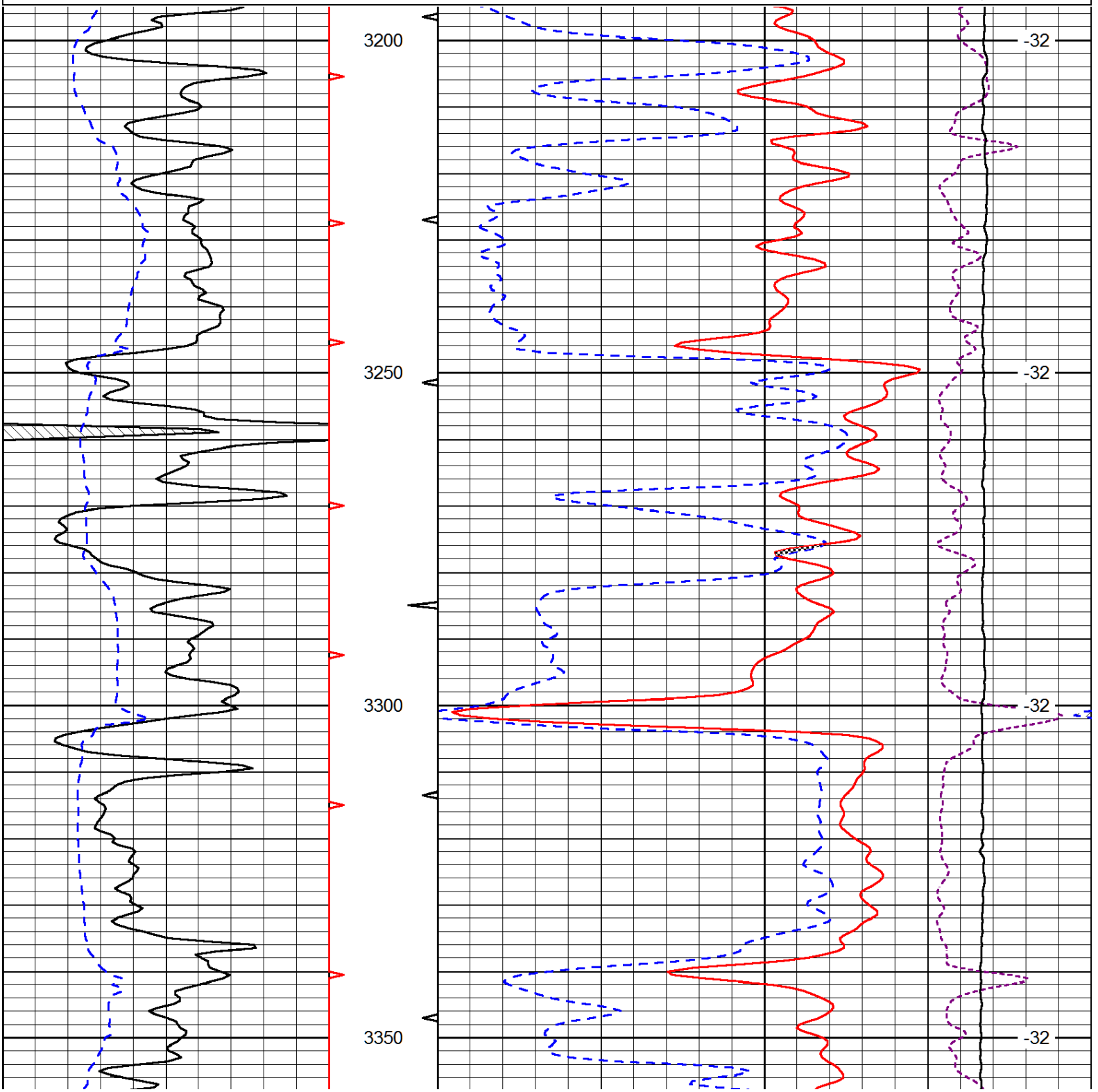

3700
3750
3800
3850
3900
3950
4000
4050
4100
4150
4200
-32
-32
-32
-31
-31
-31
-31
-31
-31
-31
-31

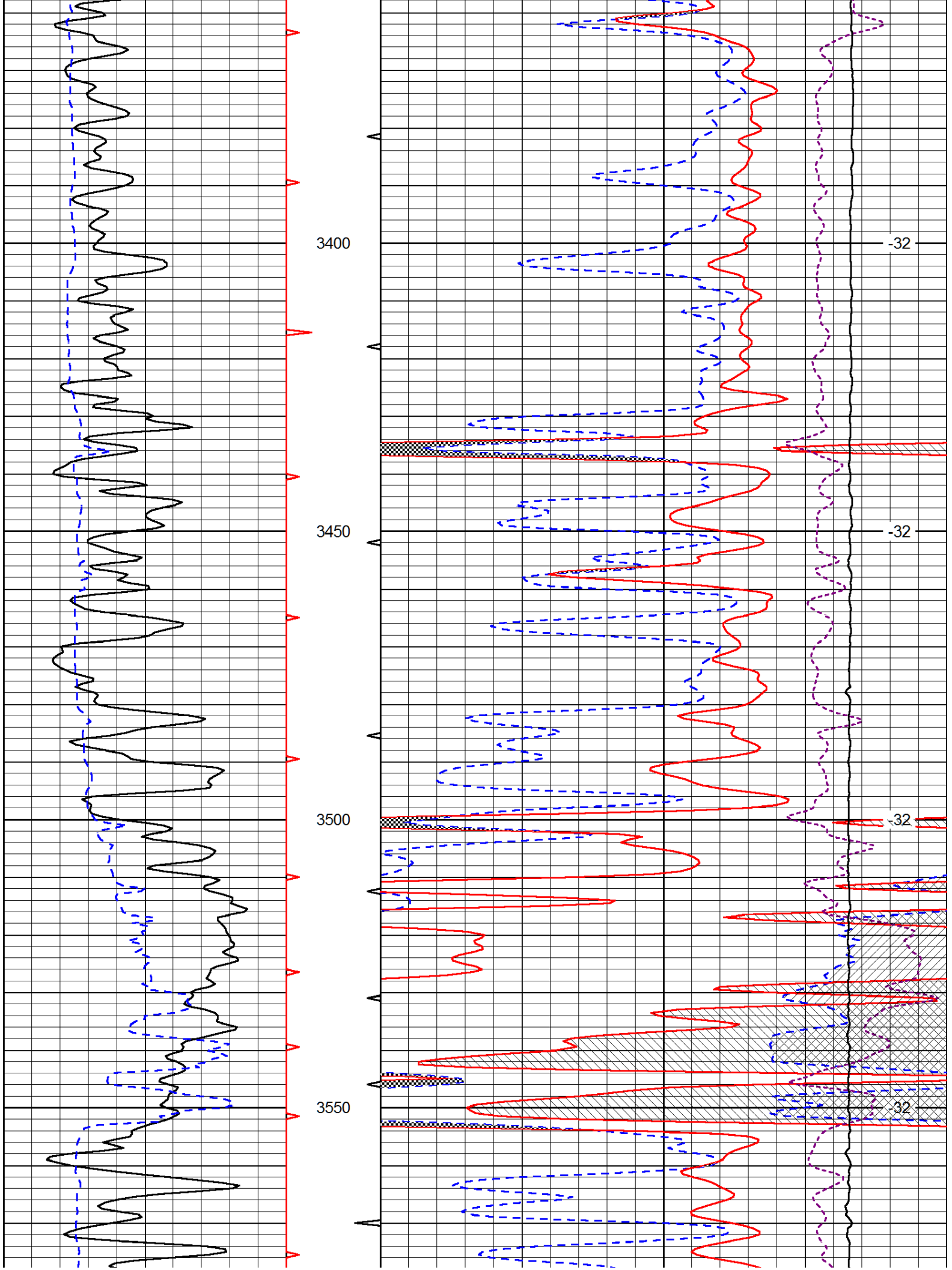

4250
4300
4350
4400
4450
4500
4550
4600
4650
-31
-31
-31
-31
-31
-30
-30
-30
-30
0
Gamma Ray (GAPI)
150
6
Caliper (in)
16
30
Compensated Density (pu)
-10
2
Bulk Density (g/cc)
3
15000
Line Tension (lb)
0
-0.25
Correction (g/cc)
0.25
LSPD
(ft/min)

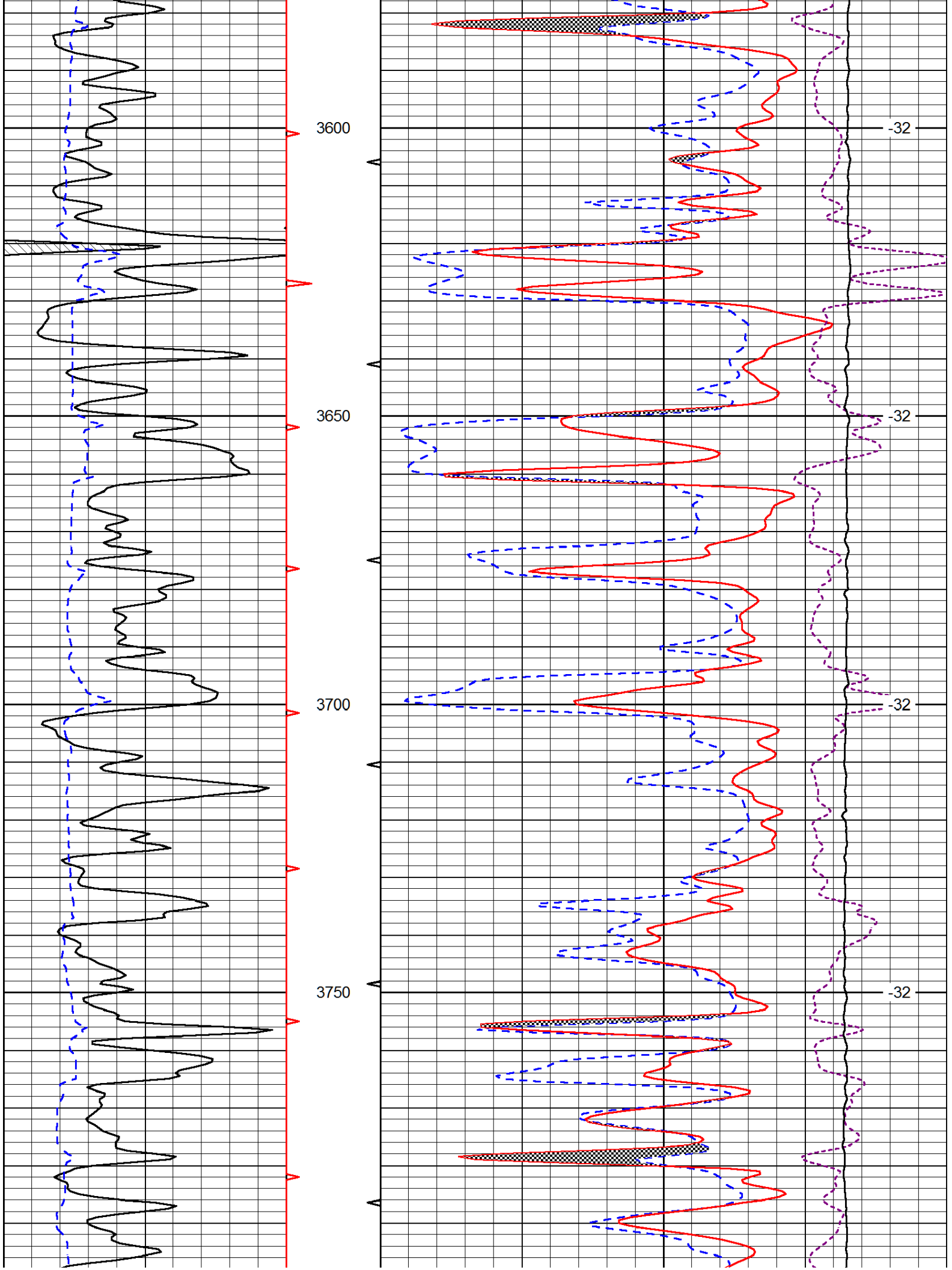
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Dataset Pathname:	DIL/wausstk
Presentation Format:	cndlspec
Dataset Creation:	Mon Apr 15 09:23:15 2013
Charted by:	Depth in Feet scaled 1:240

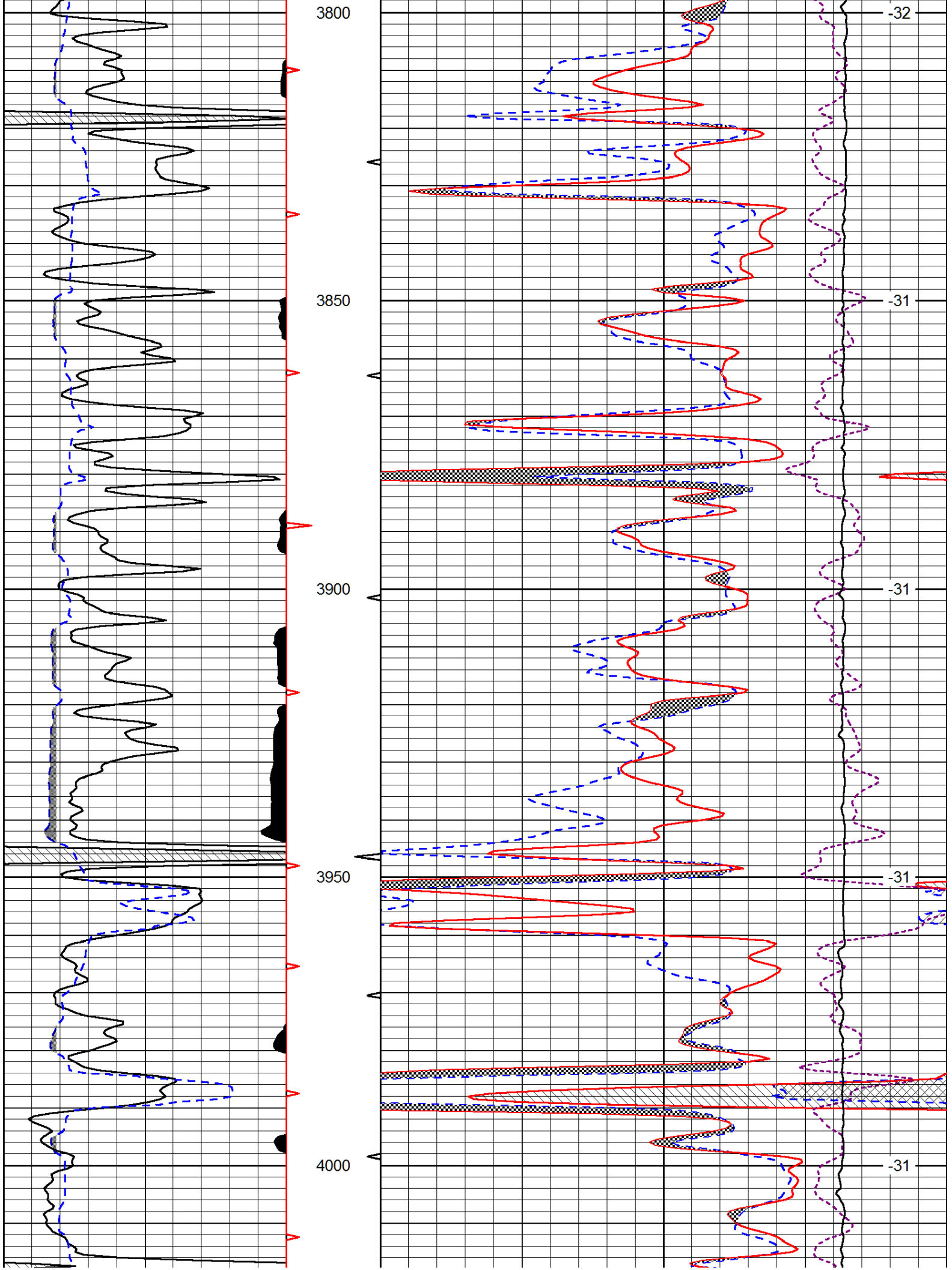
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

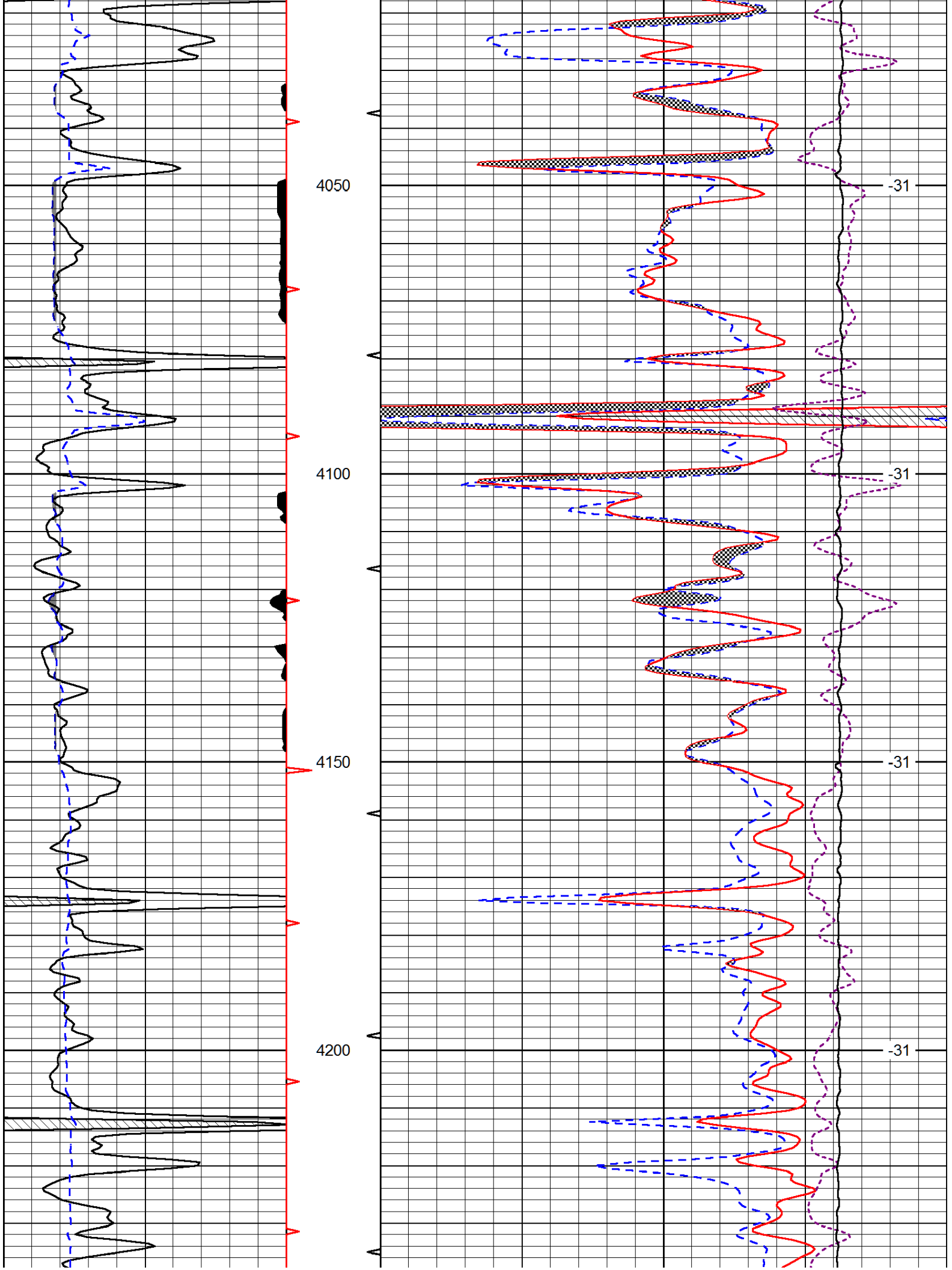
30	CNLS (pu)	-10
30	Compensated Density (2.71 ma) (pu)	-10
10000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25
	LSPD (ft/min)	

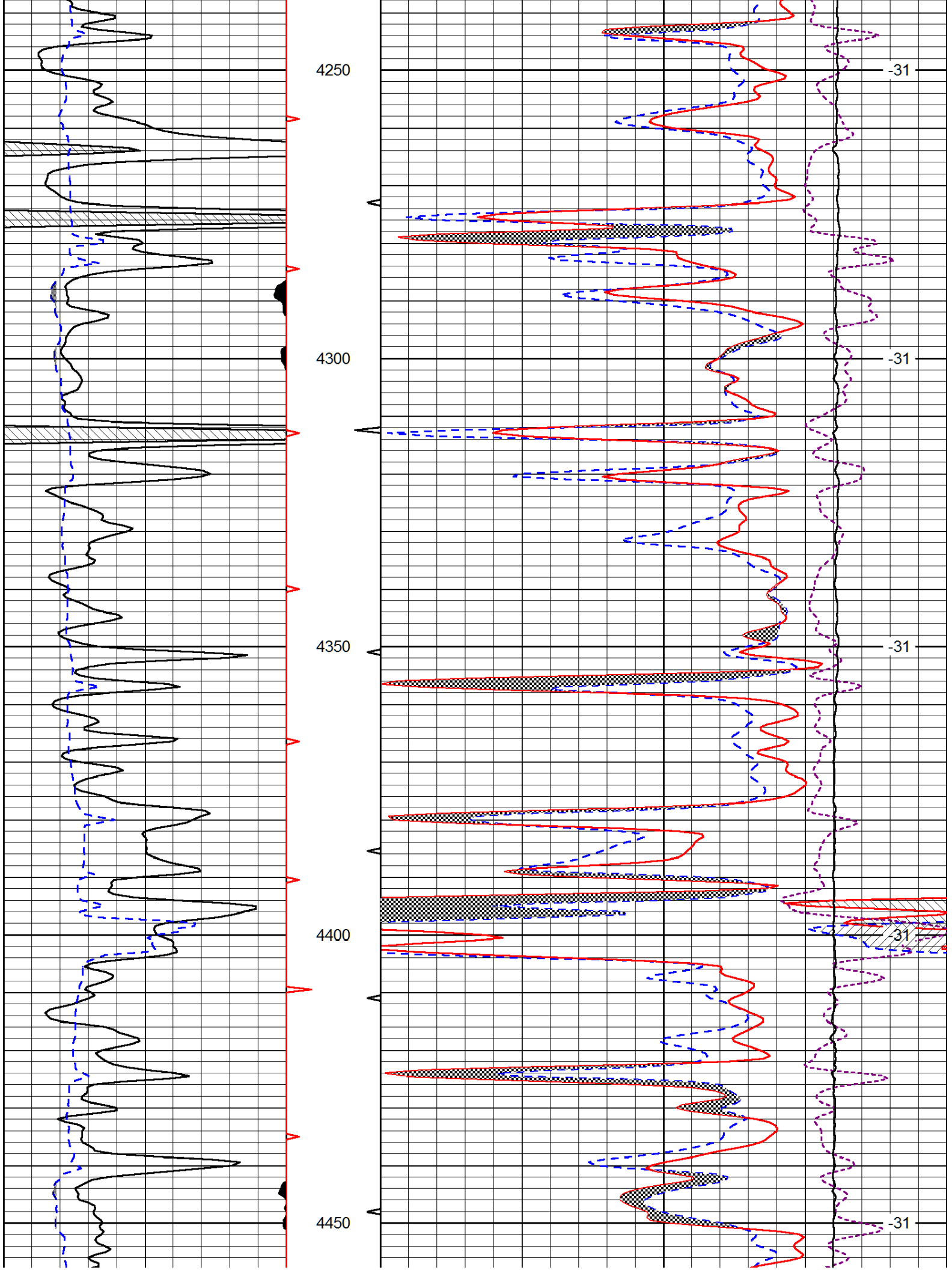


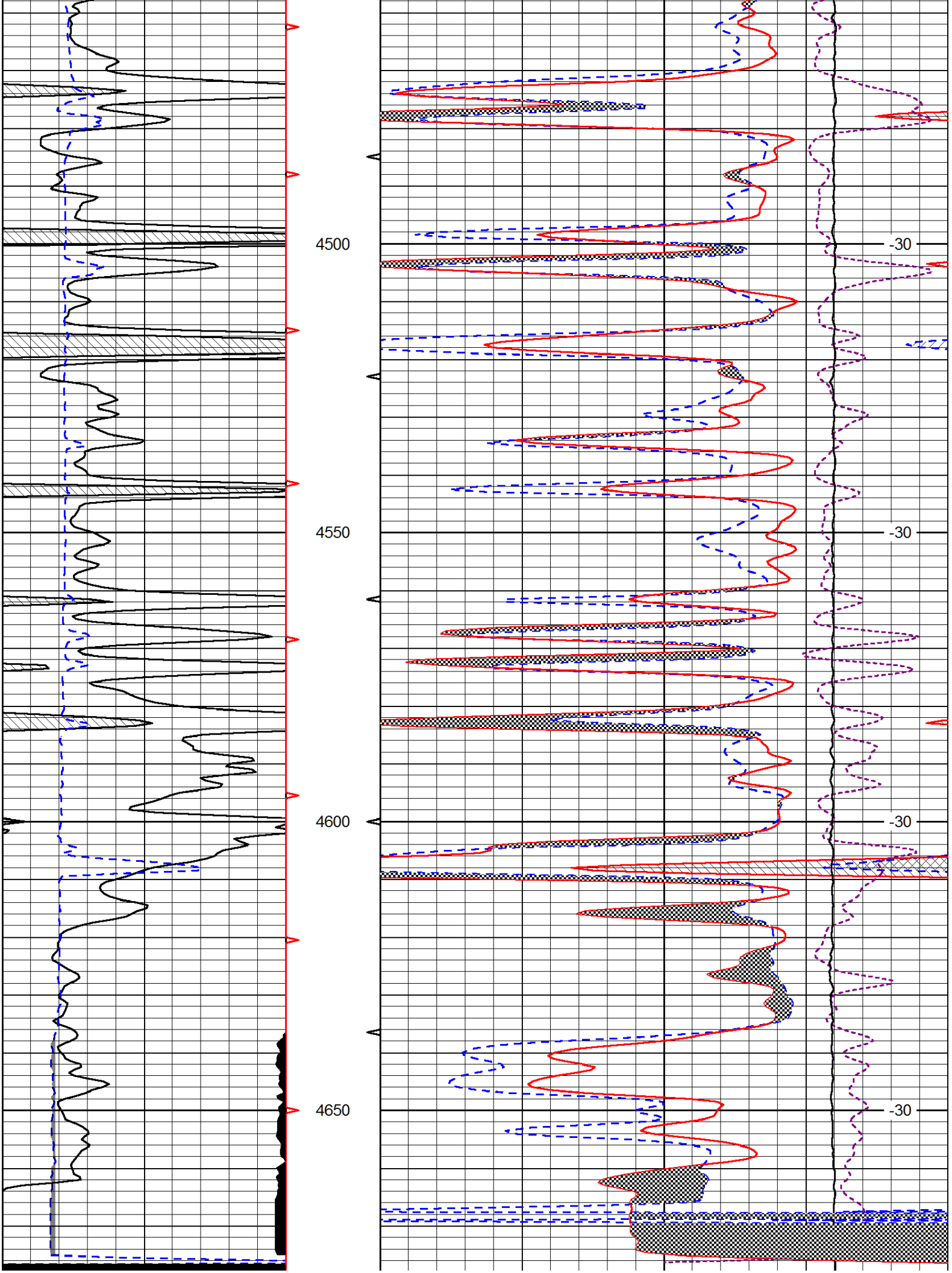

3400
3450
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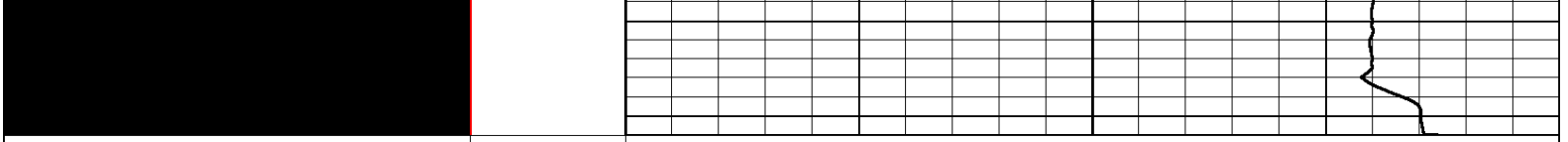

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-31


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4550
4600
4650
-30
-30
-30



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

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

LSPD
(ft/min)