PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No. 15-065-23937-00-00

Company Murfin Drilling Co., Inc.

Well Ruder Unit #2-36

Field Geyer East

County Graham State Kansas

Location 335' FSL / 2600' FEL

Sec: 36 Twp: 10S Rge: 24W

Other Services
DIL
MEL / BHCS

Elevation
K.B. 2331
D.F.
G.L. 2326

Permanent Datum Ground Level Elevation 2326
Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date	6/8/2013
Run Number	One
Type Log	CNL / CDL
Depth Driller	3985
Depth Logger	3982
Bottom Logged Interval	3961
Top Logged Interval	3300
Type Fluid In Hole	Chemical
Salinity, PPM CL	3500
Density	9.2
Level	Full
Max. Rec. Temp. F	116
Operating Rig Time	5 Hours
Equipment -- Location	108 Hays
Recorded By	R. Barnhart
Witnessed By	Rocky Milford

Borehole Record

Run No.	Bit	From	To
One	12.25	00	220
Two	7.875	220	TD

Casing Record

Size	Wgt.	From	To
8.625	23#	00	220

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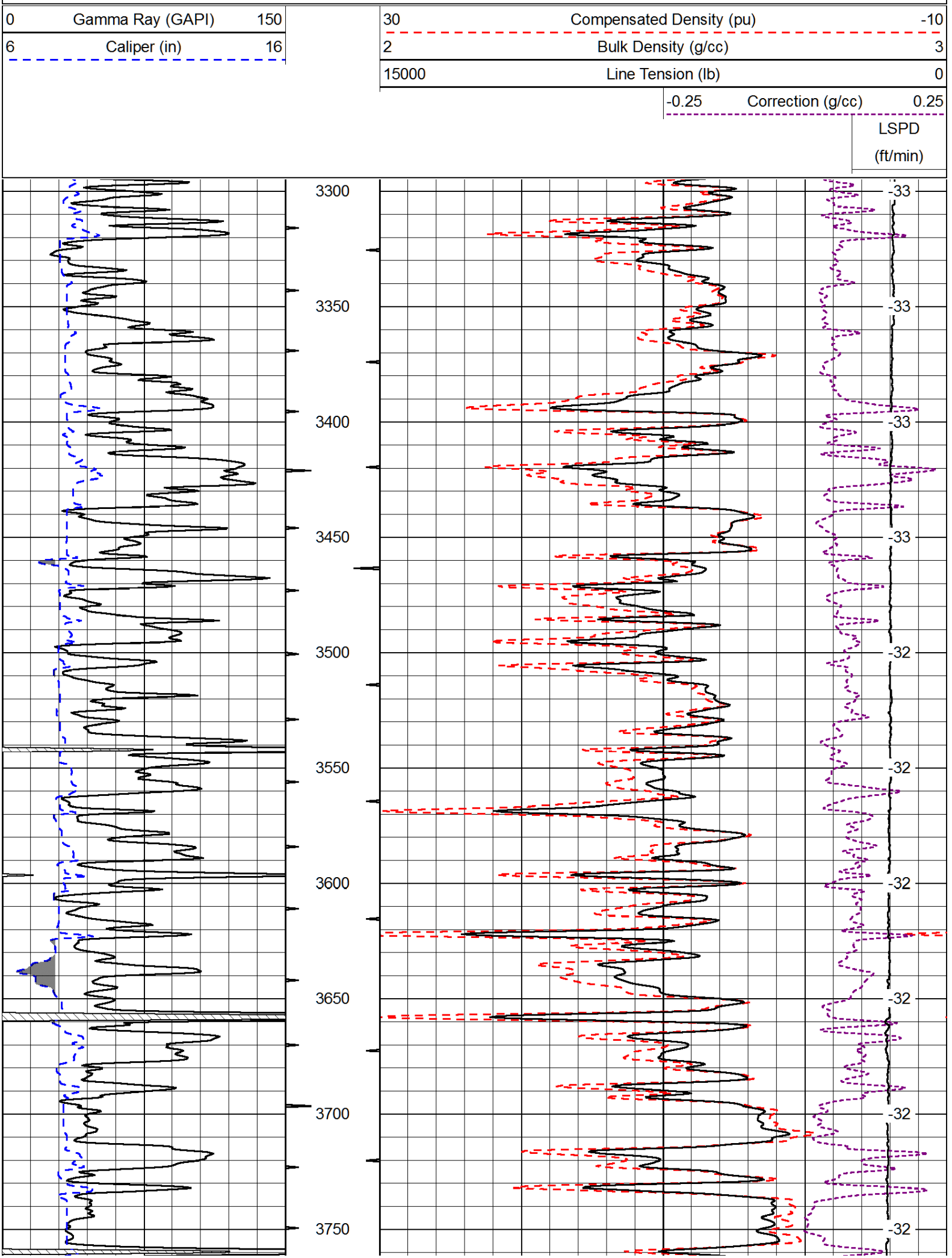
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

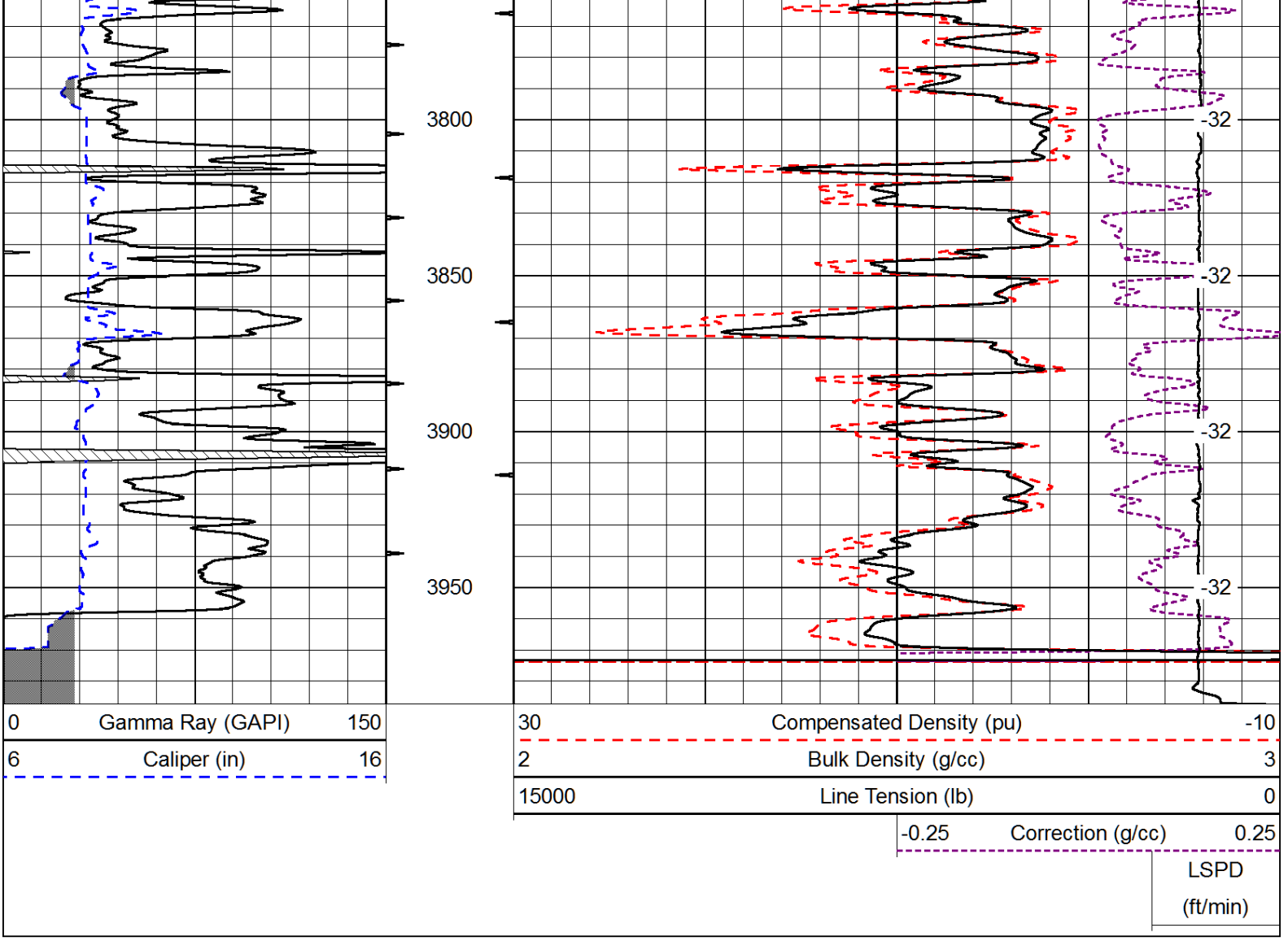
Comments

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

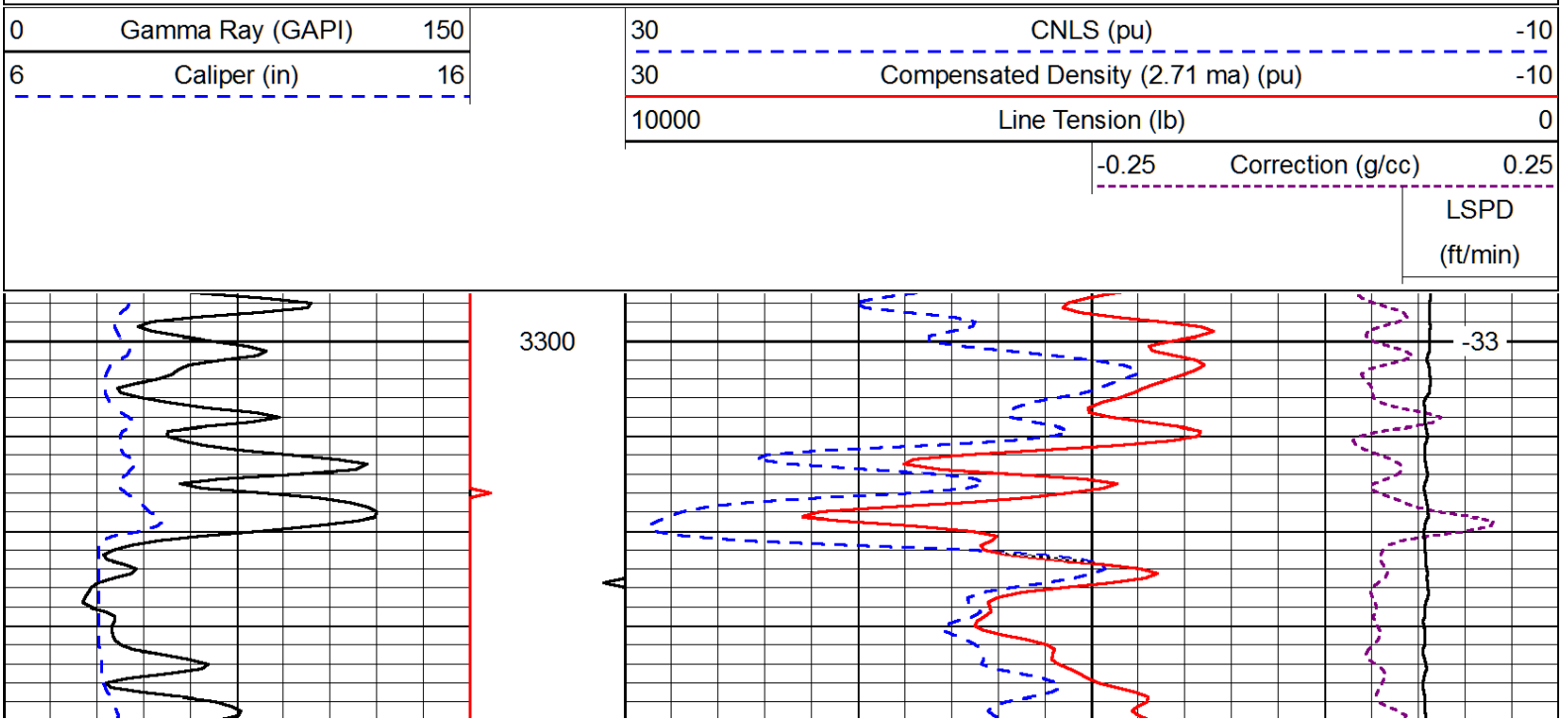
Wakeeney, KS:
7N to Rd. B, 5W to 210 Rd., 1N, E into

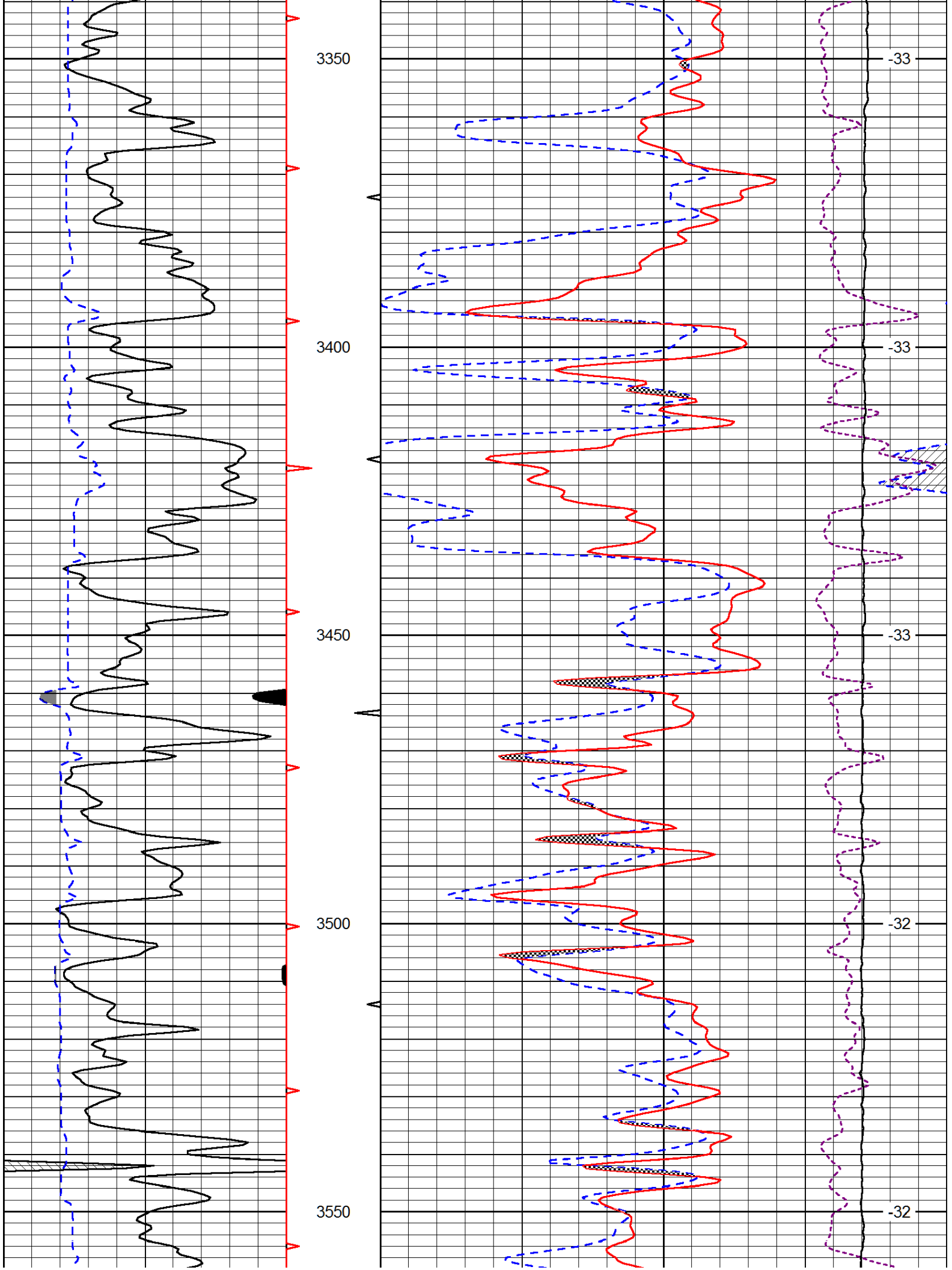
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Charted by: Depth in Feet scaled 1:600

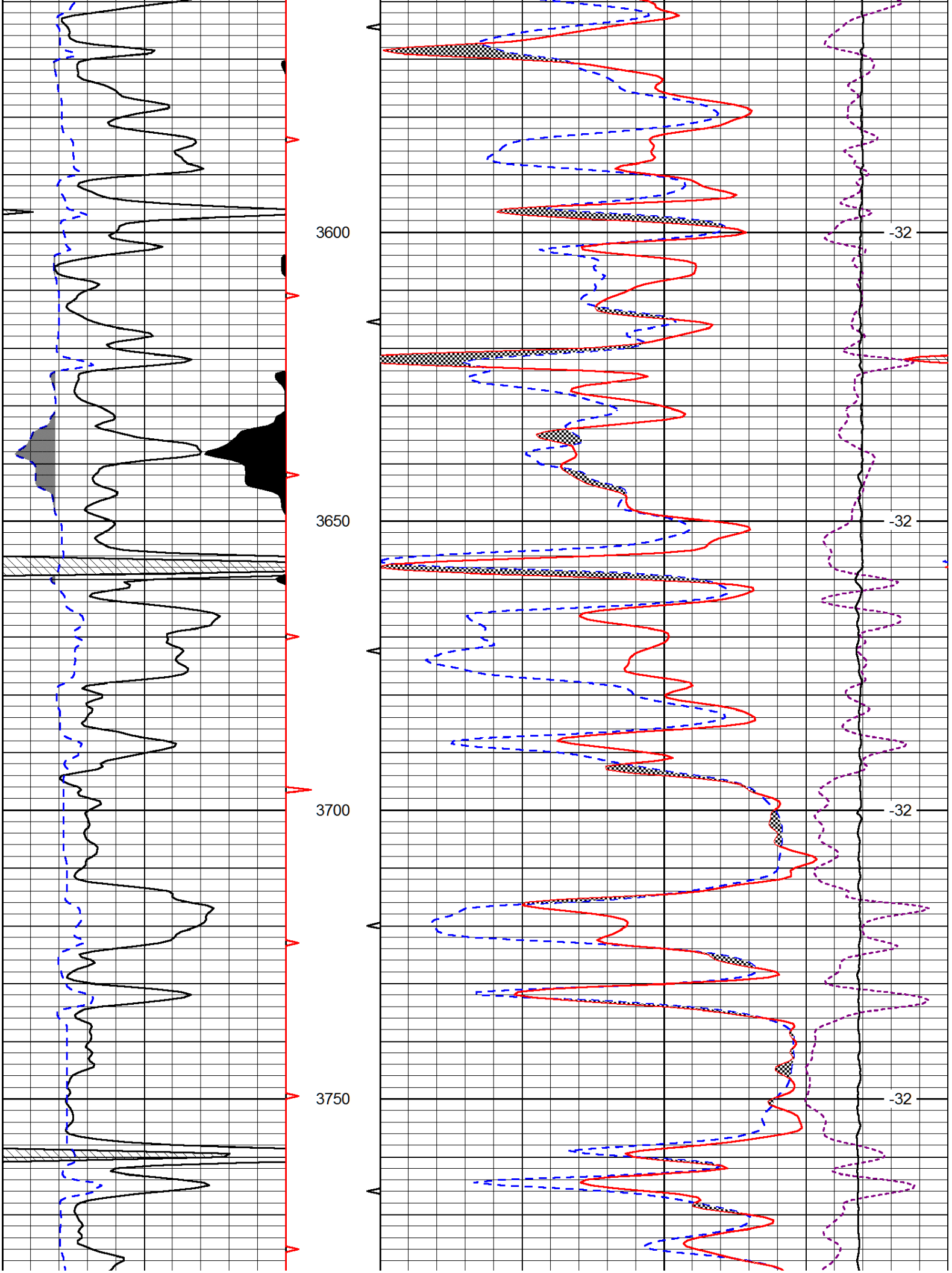

0 Gamma Ray (GAPI) 150
6 Caliper (in) 16
30 Compensated Density (pu) -10
2 Bulk Density (g/cc) 3
15000 Line Tension (lb) 0
-0.25 Correction (g/cc) 0.25
LSPD
(ft/min)
3300
3350
3400
3450
3500
3550
3600
3650
3700
3750
-33
-33
-33
-32
-32
-32
-32
-32

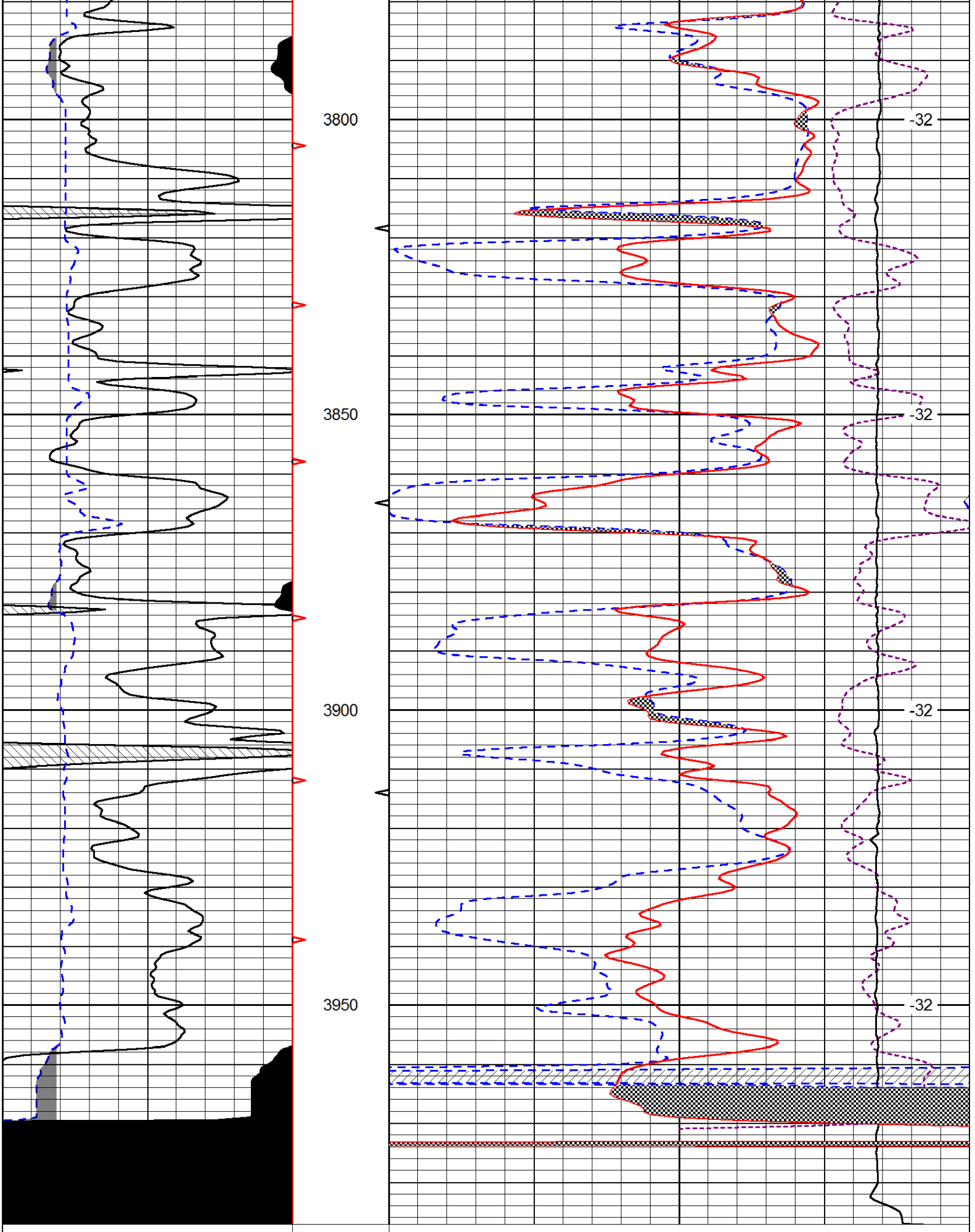


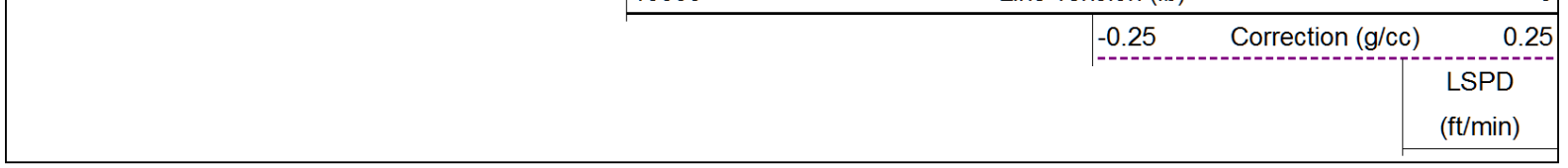
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3350
3400
3450
3500
3550
-33
-33
-33
-32
-32


3600
3650
3700
3750
-32
-32
-32
-32


3800
3850
3900
3950
-32
-32
-32
-32
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)