



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-017-20,916-00-00

Company Range Oil Company, Inc.

Well Madden Unit No. 1

Field Wildcat

County Chase

State Kansas

Location

NW-NW-SE-NW
1460' FNL & 1390' FWL

Other Services
DIL/MEL

Sec: 31

Twp: 19S

Rge: 6E

Permanent Datum Ground Level Elevation 1460

Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Elevation
K.B. 1469
D.F.
G.L. 1460

Date 6/2/2014

Run Number Three

Type Log CNL / CDL

Depth Driller 2262

Depth Logger 2260

Bottom Logged Interval 2258

Top Logged Interval 1300

Type Fluid In Hole Chemical

Salinity, PPM CL 900

Density 8.9

Level Full

Max. Rec. Temp. F 99

Operating Rig Time 4 Hours

Equipment -- Location 10 Hays

Recorded By J. Henrickson

Witnessed By Ken Wallace

Borehole Record

Casing Record

Run No

Bit

From

To

Size

Wgt.

From

To

One 12.25

00

200

8.625

23#

00

200

Two 7.875

200

TD

<<< Fold Here >>>

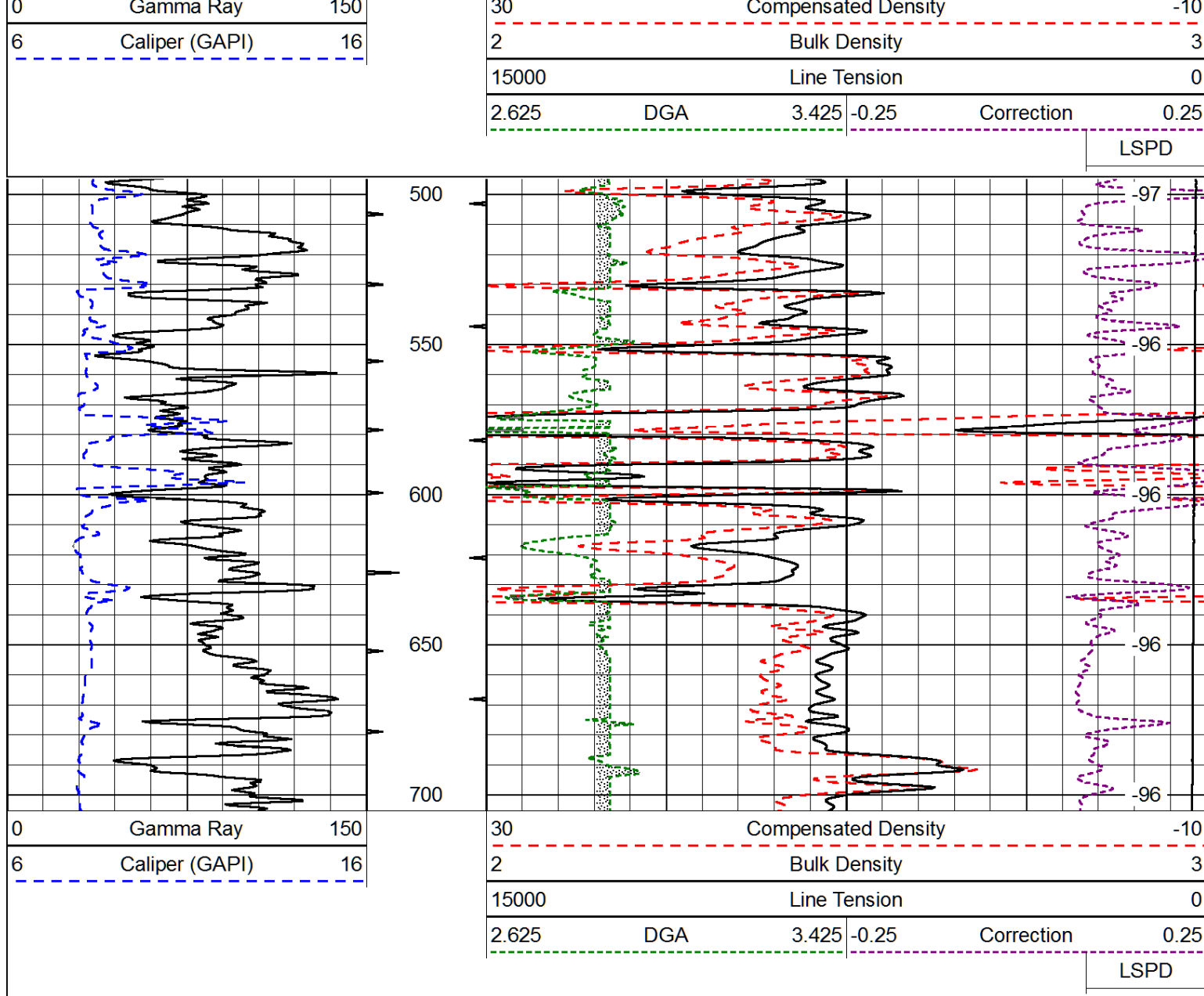
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

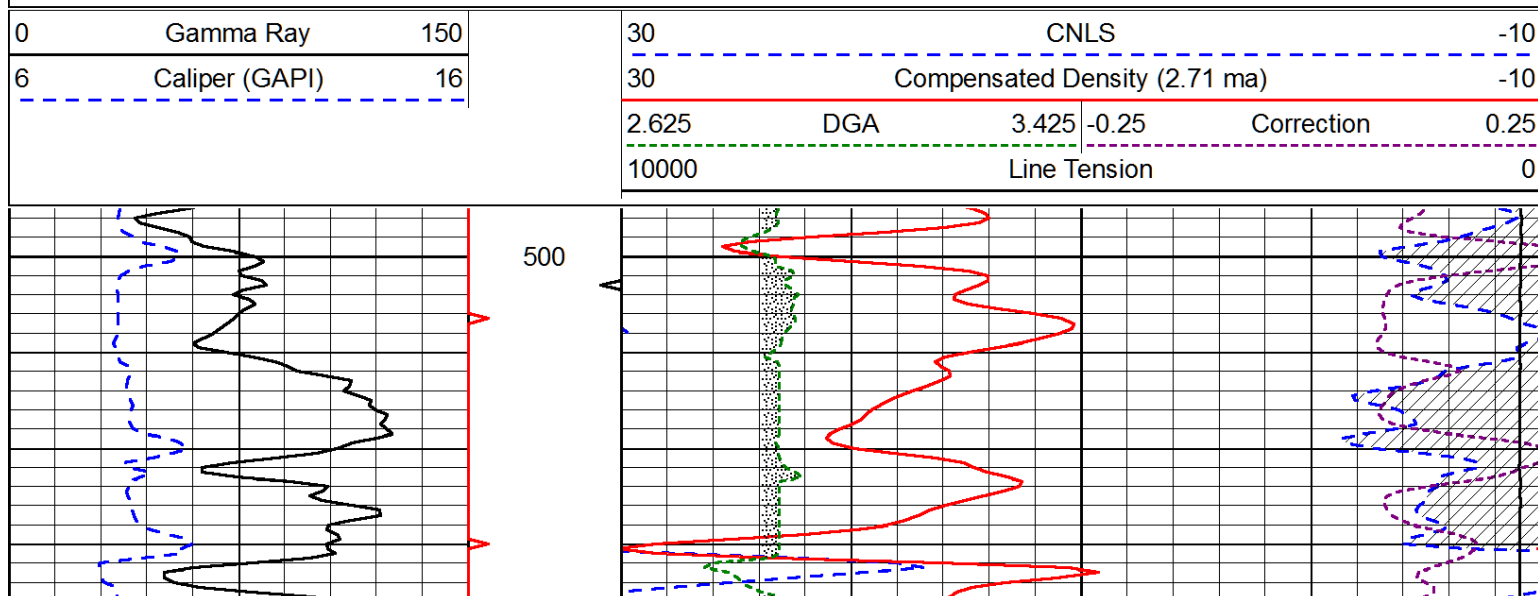
Thank you for using Log-Tech, Inc.
(785) 625-3858

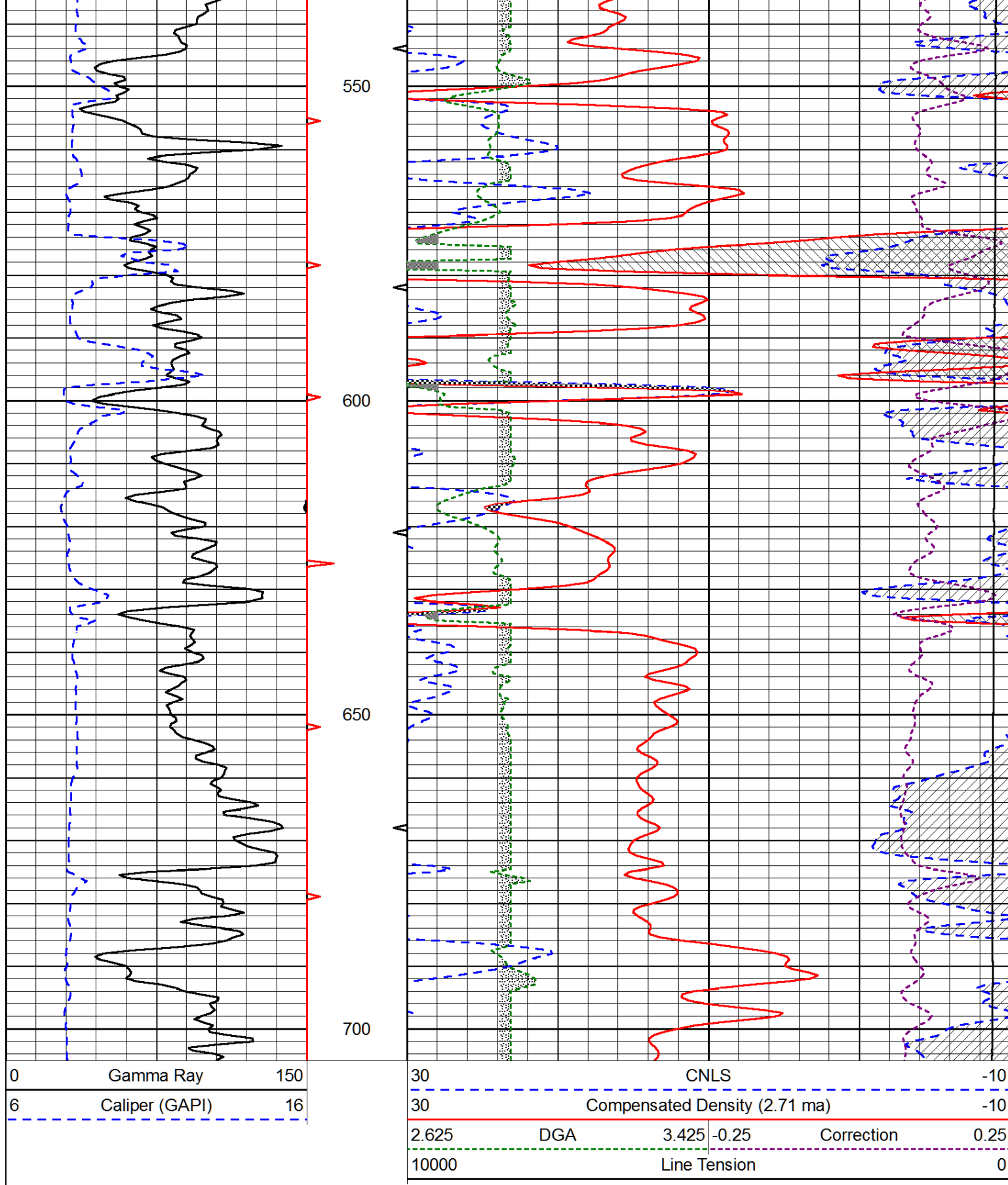
Marion Kansas
East to 4 Way Stop, 8 East, South Into

Database File: range_madden_unit_1hd.db
Dataset Pathname: DIL/rangeall
Presentation Format: cdl
Dataset Creation: Mon Jun 02 21:40:05 2014
Charted by: Depth in Feet scaled 1:600



Database File: range_madden_unit_1hd.db
 Dataset Pathname: DIL/rangeall
 Presentation Format: cndlspec
 Dataset Creation: Mon Jun 02 21:40:05 2014
 Charted by: Depth in Feet scaled 1:240



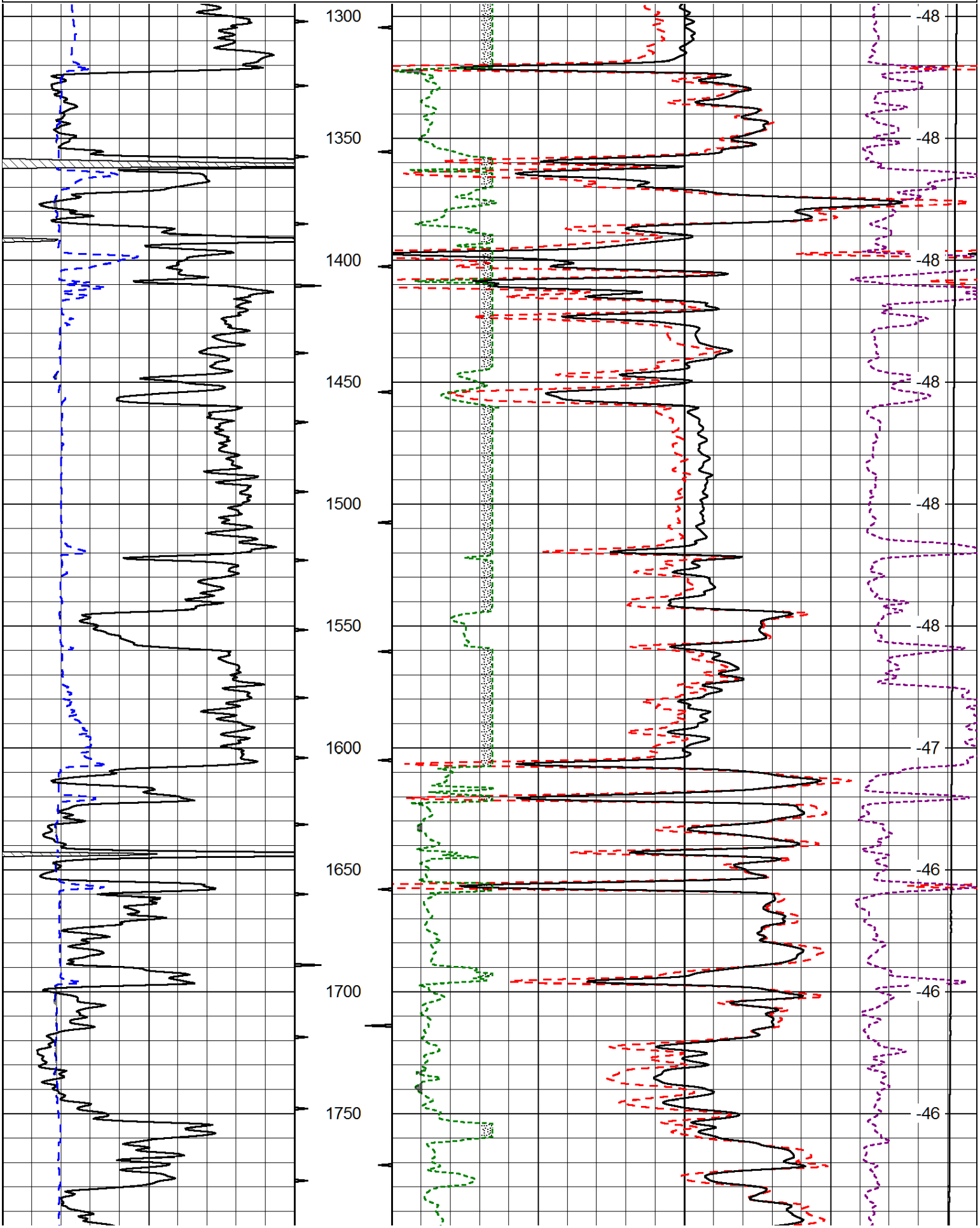


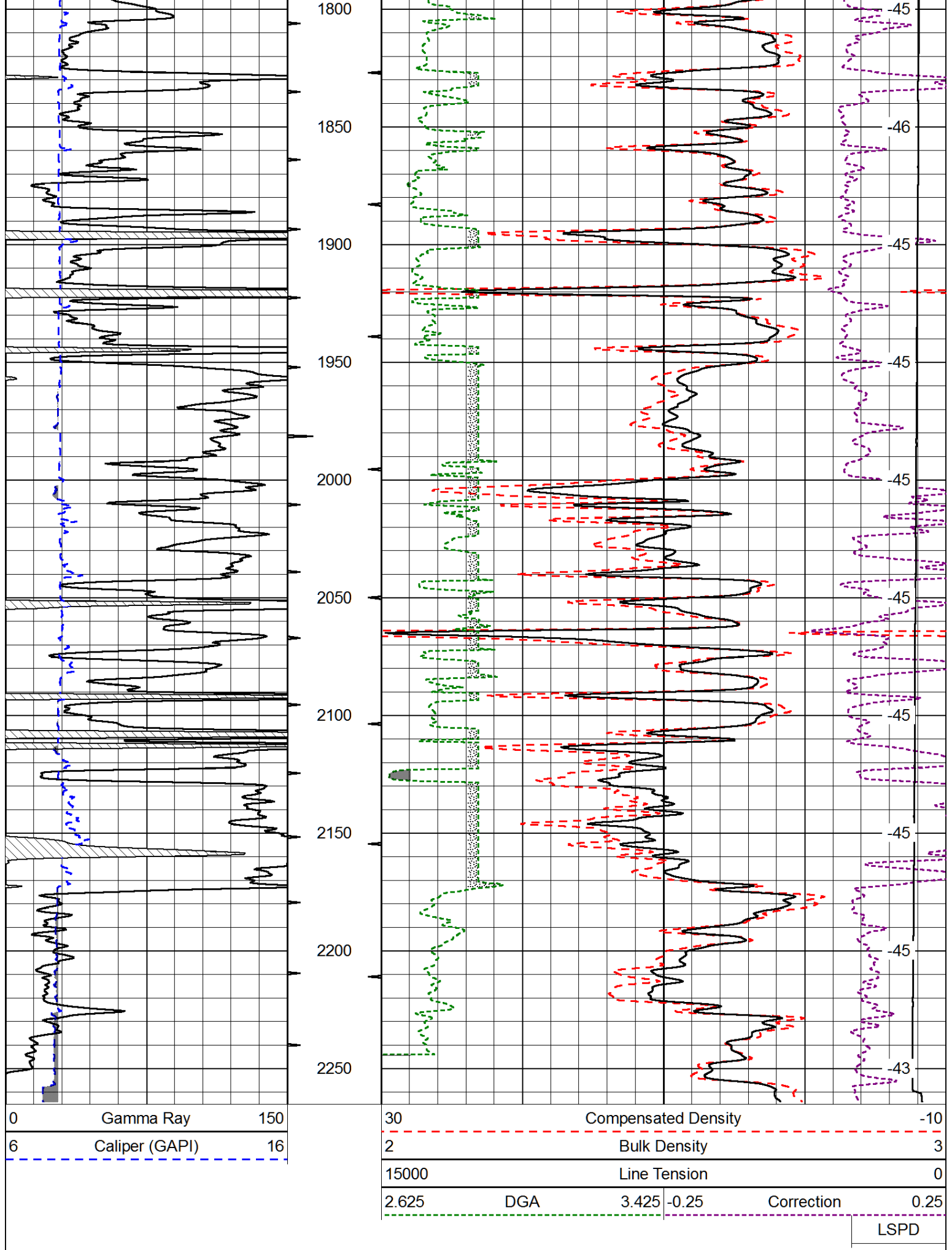
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 Charted by: Depth in Feet scaled 1:600



6	Caliper (GAPI)	16
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2		Bulk Density		3	
15000		Line Tension		0	
2.625	DGA	3.425	-0.25	Correction	0.25
			LSPD		





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0	Gamma Ray	150	30	CNLS		-10
6	Caliper (GAPI)	16	30	Compensated Density (2.71 ma)		-10
			2.625	DGA	3.425	-0.25
			10000	Line Tension		0
			Correction		0.25	

