



Pioneer Energy Services

## Dual Compensated Porosity Log

API No.	15-109-21,304-00-00	
Company	Black Tea Oil, LLC	
Well	DFK 1 No.1	
Field	Logan	
County	Logan	
State	Kansas	
Location	NE-NW-SE-NW 1605' FNL & 1745' FWL	
Sec: 2	Twp: 15S	Rge: 32W
Permanent Datum	Ground Level	Elevation 2669
Log Measured From	Kelly Bushing	9 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	
		Other Services DIL MEL/BHCS
		Elevation K.B. 2678 D.F. G.I.L. 2669

Date	6/22/14
Run Number	One
Type Log	CNL / CDL
Depth Driller	4400
Depth Logger	4400
Bottom Logged Interval	4379
Top Logged Interval	3000
Type Fluid In Hole	Chemical
Salinity, PPM CL	4,000
Density	9.1
Level	Full
Max. Rec. Temp. F	120
Operating Rig Time	5 Hours
Equipment -- Location	108   Hays
Recorded By	J. Henrickson
Witnessed By	Kevin Bailey

Borehole Record		Casing Record					
Run No	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	264	8.625	23#	00	264
Two	7.875	264	TD				

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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.

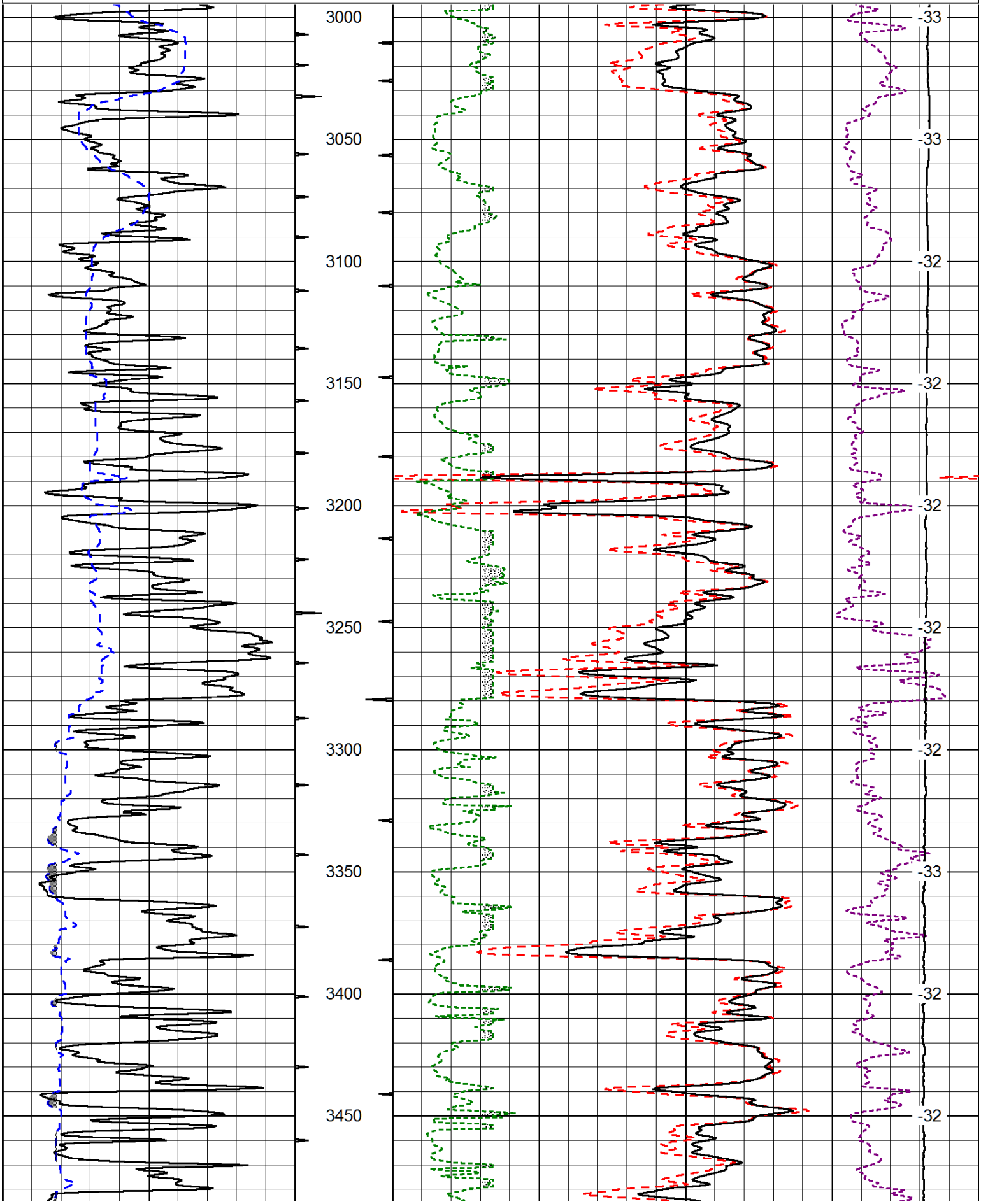
### Comments

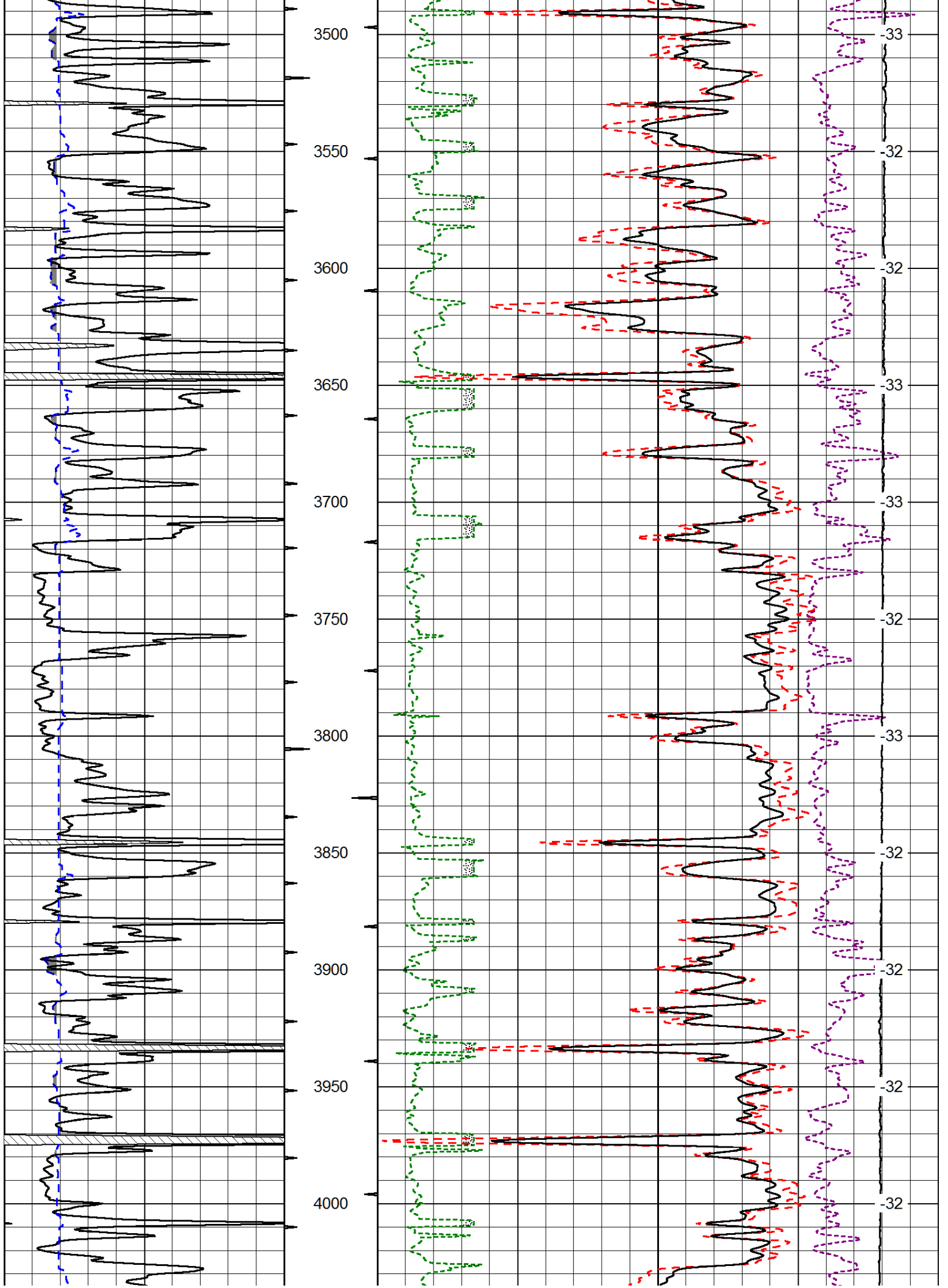
Thank you for using Log-Tech, Inc.  
(785) 625-3858  
  
Oakley Kansas  
South to Gold Rd, East Into

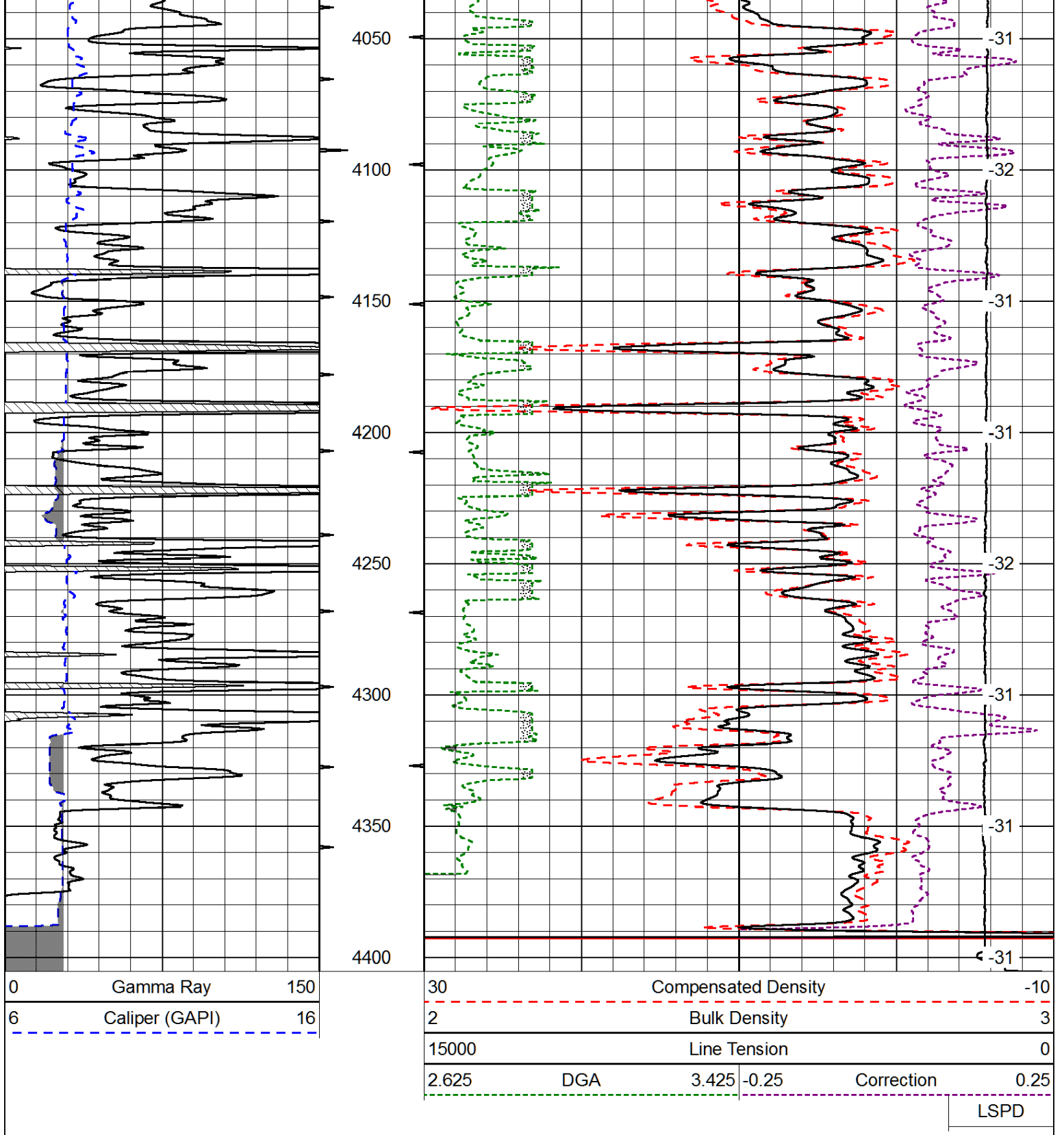
Database File: blacktea\_dfk\_1\_1hd.db  
 Dataset Pathname: DIL/bteastk  
 Presentation Format: cdl  
 Dataset Creation: Sun Jun 22 20:32:53 2014  
 Charted by: Depth in Feet scaled 1:600

0	Gamma Ray	150
6	Caliper (GAPI)	16

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







Database File: blacktea\_dfk\_1\_1hd.db  
 Dataset Pathname: DIL/bteastk  
 Presentation Format: cndlspec  
 Dataset Creation: Sun Jun 22 20:32:53 2014  
 Charted by: Depth in Feet scaled 1:240

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	Correction	0.25
			10000	Line Tension			0	
			30	snr			-10	

