PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No. 15-179-21330-00-00

Company Culbreath Oil & Gas Company, Inc.

Well Dubois #2-36

Field Unnamed

County Sheridan State Kansas

Location 990' FSL & 1650' FWL

Sec: 36 Twp: 9 S Rge: 26 W

Other Services: DIL/MEL

Elevation: K.B. 2604, D.F. , G.L. 2594

Permanent Datum	Ground Level
Log Measured From	Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing
Elevation	2594
Date	06-08-2013
Run Number	One
Type Log	CNL / CDL
Depth Driller	4150
Depth Logger	4152
Bottom Logged Interval	4131
Top Logged Interval	3500
Type Fluid In Hole	Chemical
Salinity, PPM CL	3000
Density	9.3
Level	Full
Max. Rec. Temp. F	120
Operating Rig Time	4 Hours
Equipment -- Location	91 Hays
Recorded By	Y. Ruiz
Witnessed By	Pat Deenihan

Borehole Record

Run No.	Bit	From	To
One	12.25	00	265
Two	7.875	265	TD

Casing Record

Size	Wgt.	From	To
8.625	23#	00	265

<<< Fold Here >>>

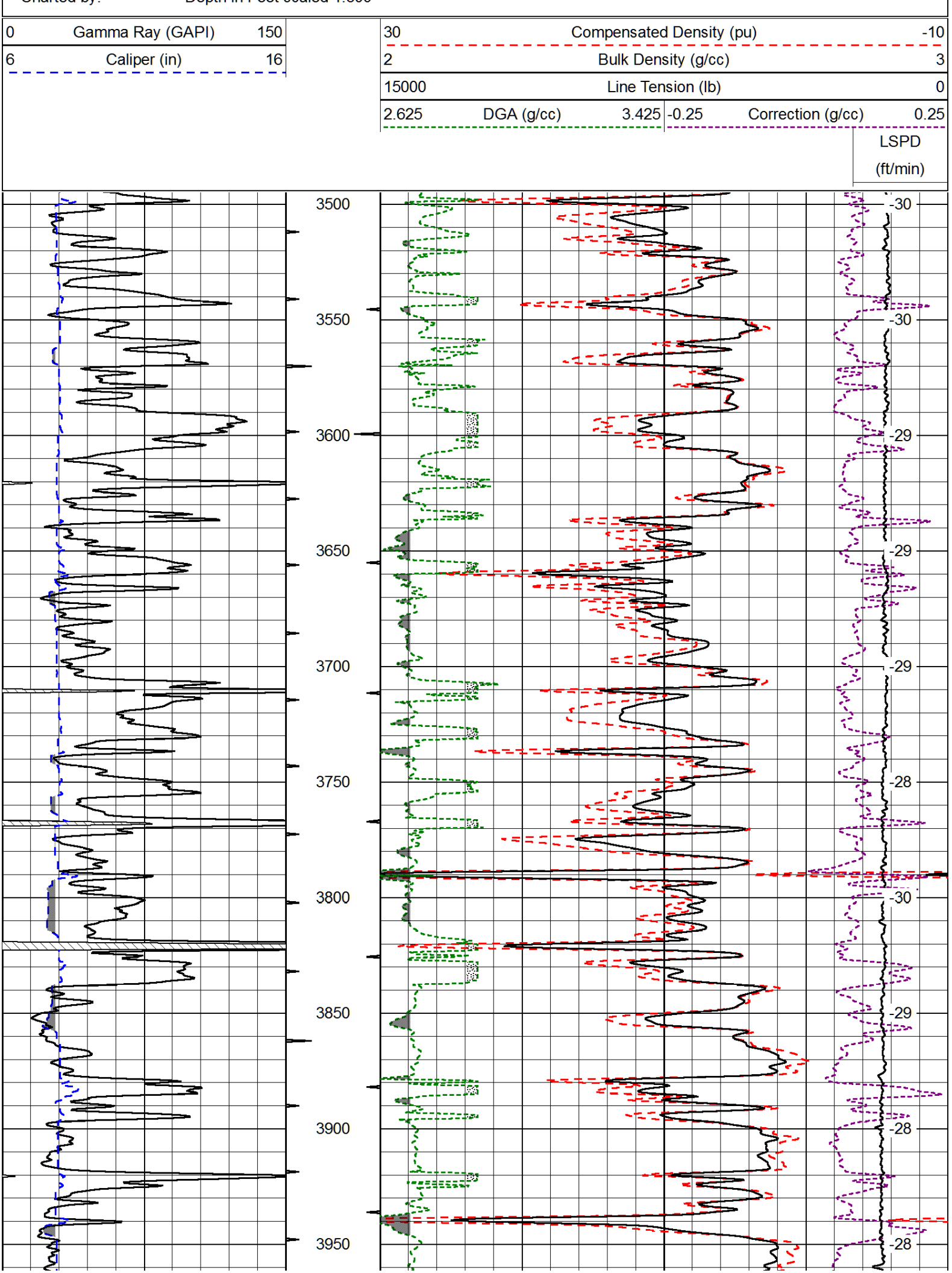
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

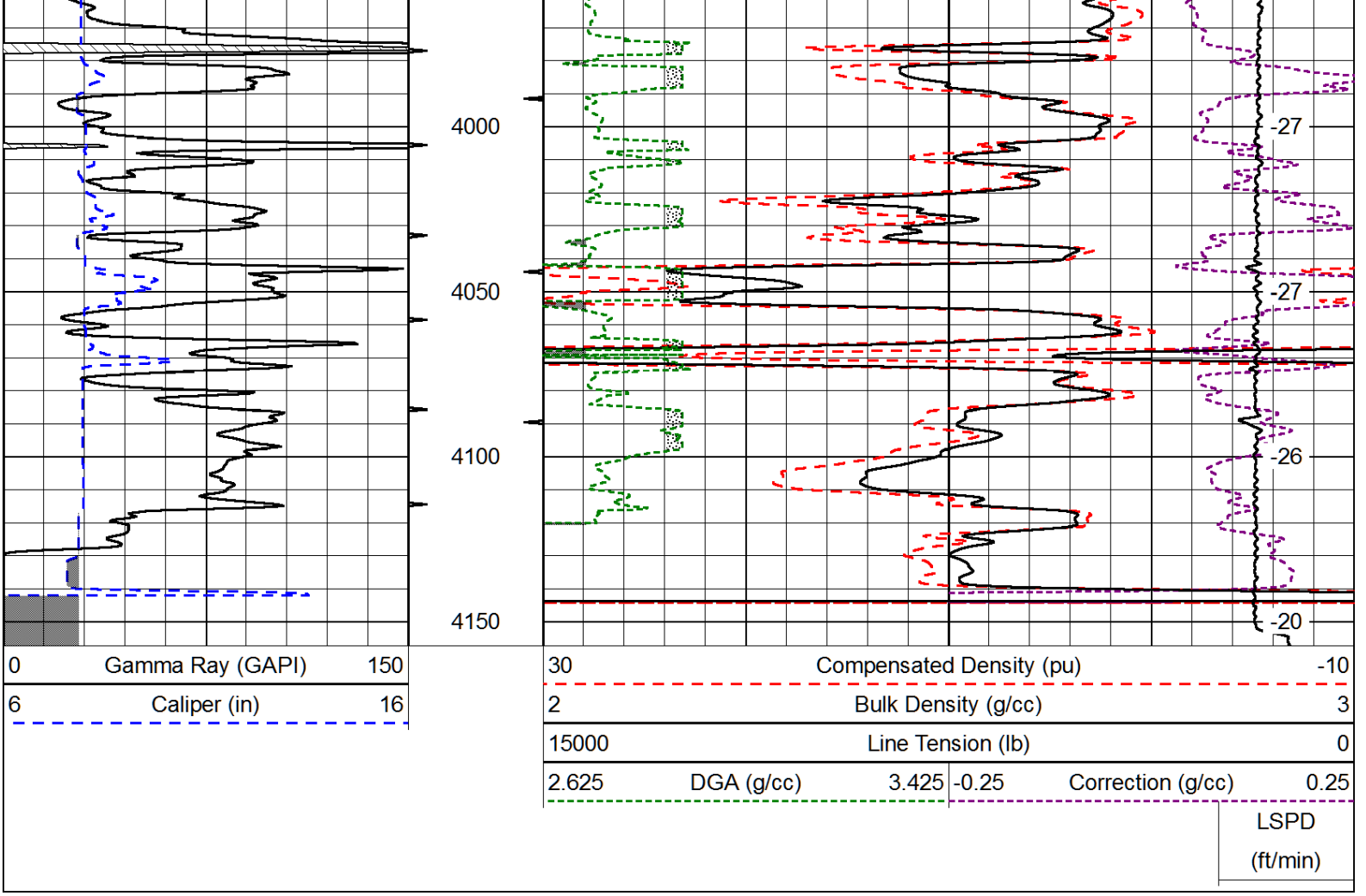
Comments

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

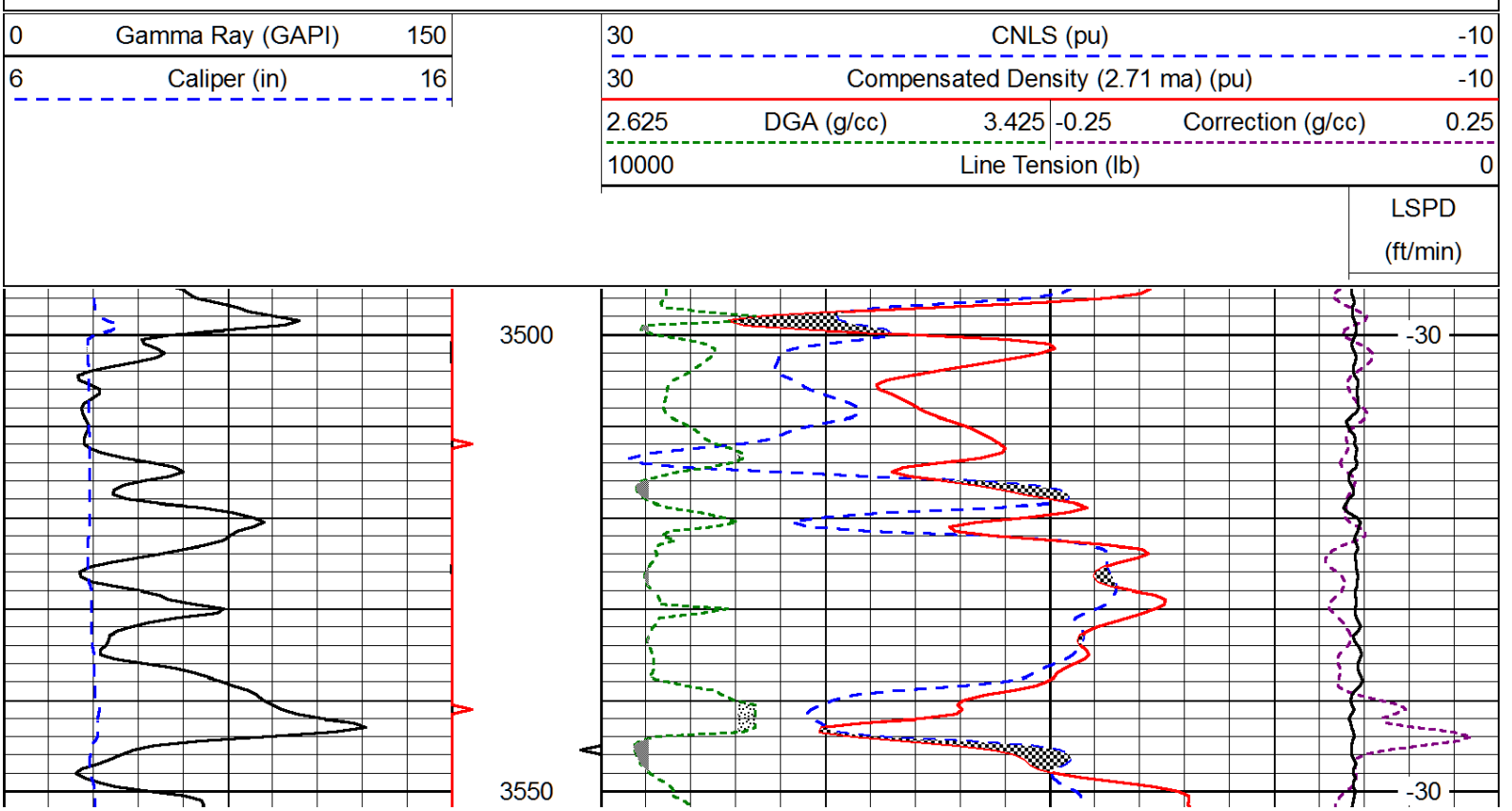
Collyer,
West on Hwy 40 to 78 Rd, 11 1/4 North to 100 Rd, 1/4 East.
North into

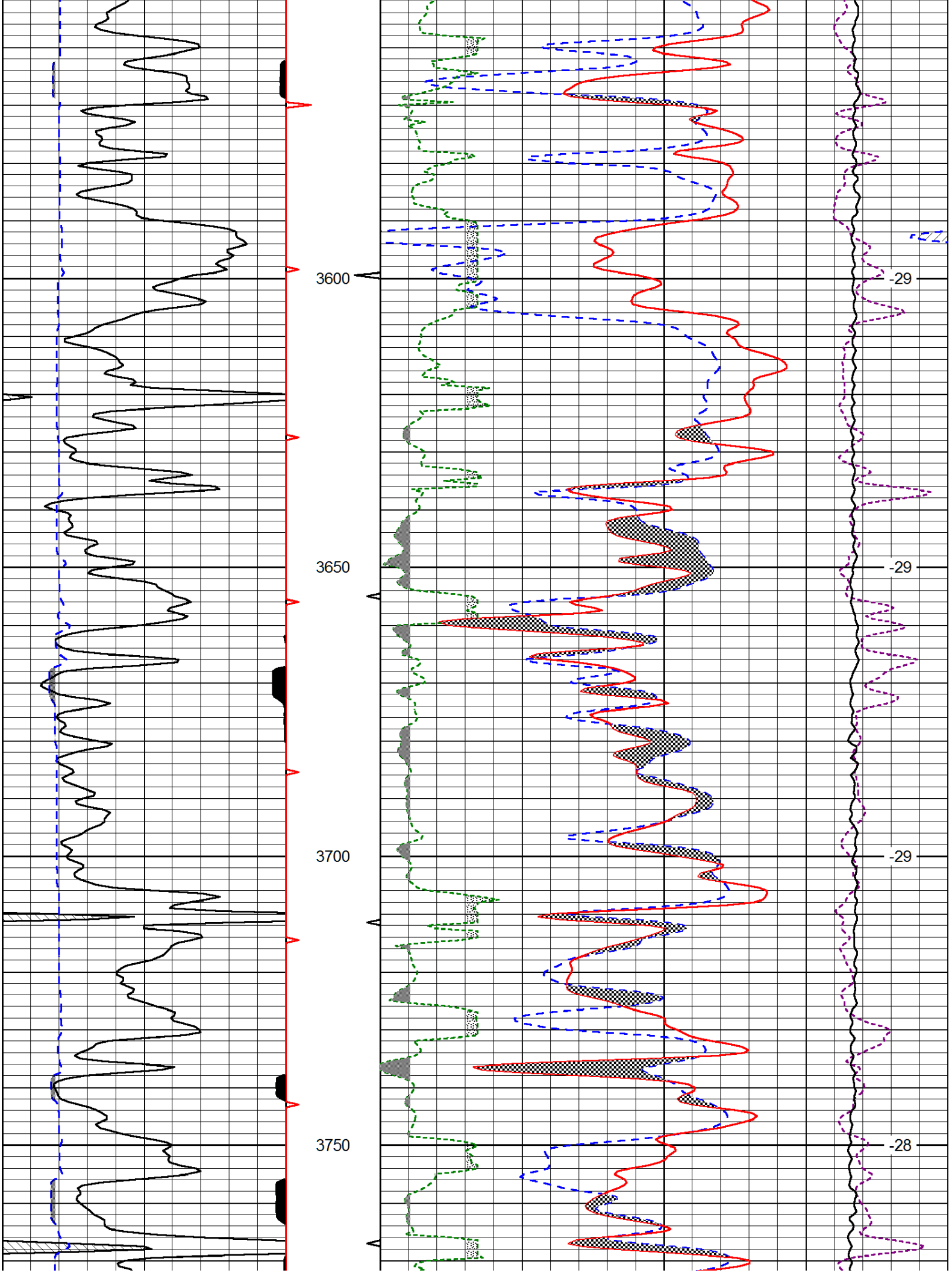
Database File:	culbreath_060813hd.db
Dataset Pathname:	dil/custck
Presentation Format:	cdl
Dataset Creation:	Sat Jun 08 19:50:54 2013
Charted by:	Depth in Feet scaled 1:600

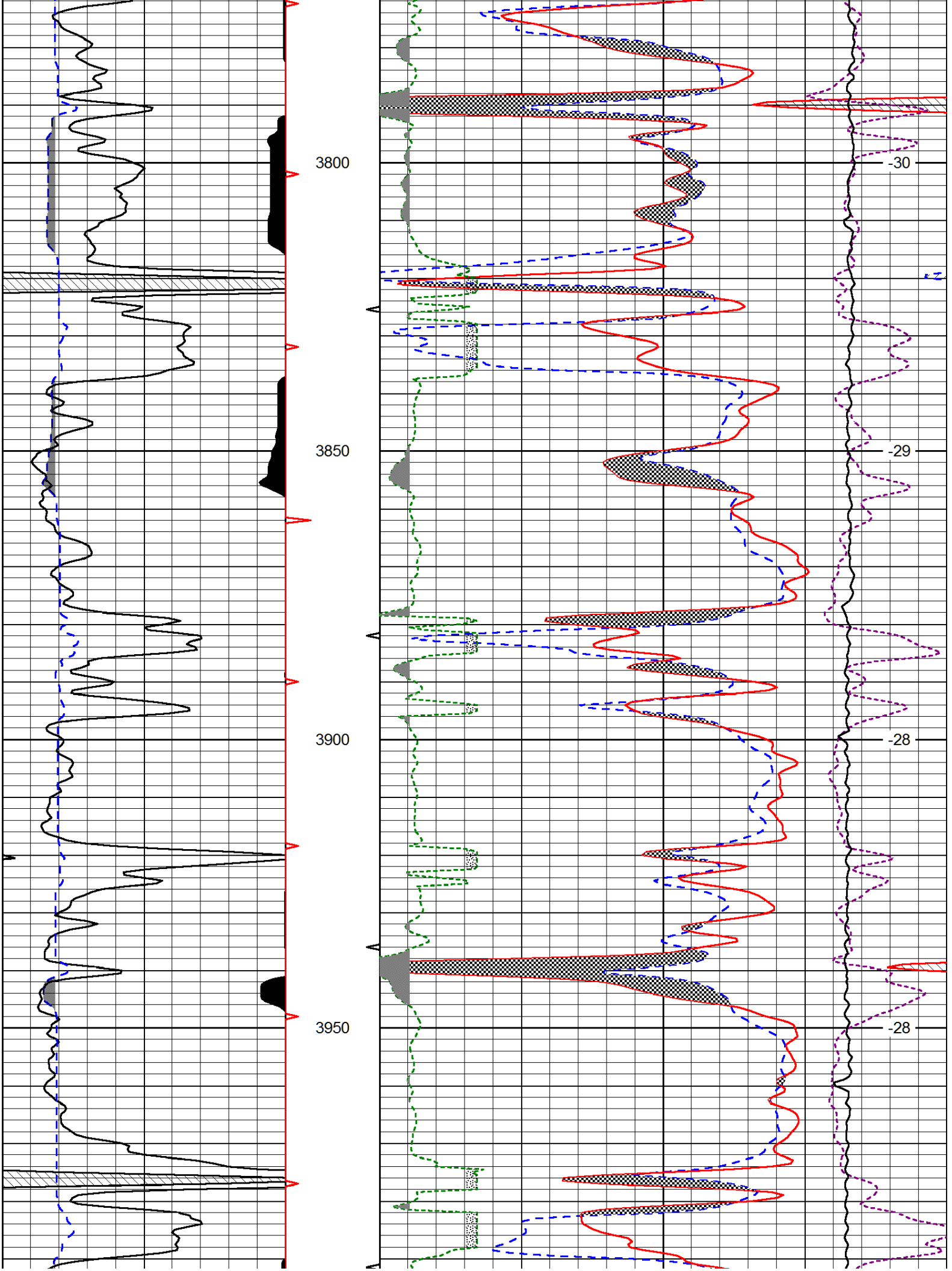

0
Gamma Ray (GAPI)
150
6
Caliper (in)
16
30
Compensated Density (pu)
-10
2
Bulk Density (g/cc)
3
15000
Line Tension (lb)
0
2.625
DGA (g/cc)
3.425
-0.25
Correction (g/cc)
0.25
LSPD
(ft/min)
3500
3550
3600
3650
3700
3750
3800
3850
3900
3950
-30
-30
-29
-29
-29
-28
-30
-29
-28
-28

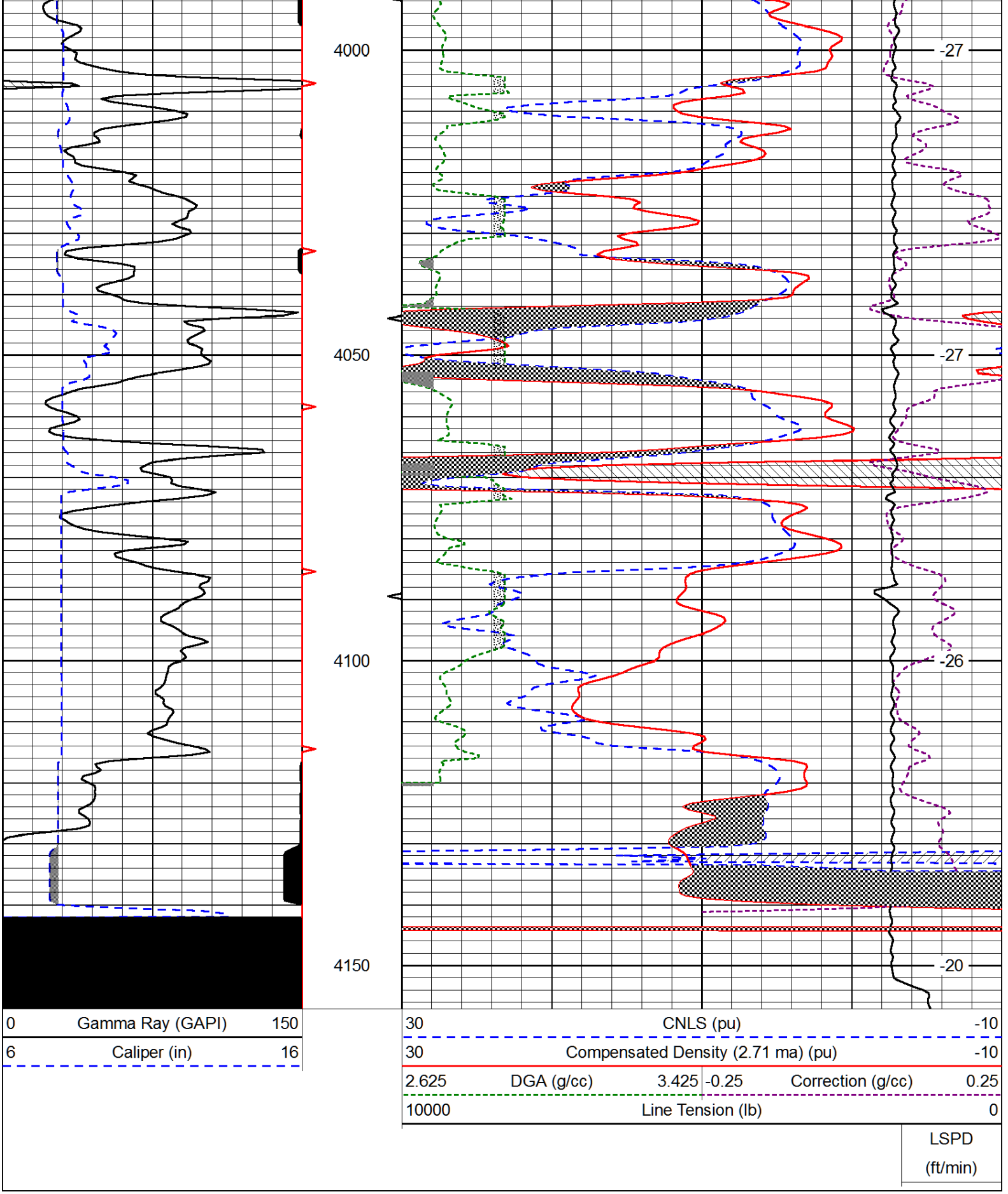


Database File: culbreath_060813hd.db
Dataset Pathname: dil/custck
Presentation Format: cndlspec
Dataset Creation: Sat Jun 08 19:50:54 2013
Charted by: Depth in Feet scaled 1:240




3600
3650
3700
3750
-29
-29
-29
-28


3800
3850
3900
3950
-30
-29
-28
-28


4000
4050
4100
4150
-27
-27
-26
-20
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)