



PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No.

15-065-23859-00-00

Company H & C Oil Operating, Inc.

Well Billips #27-1

Field Mickleson

County Graham

State Kansas

Location

NE NW NW
330' FNL / 990' FWL

Other Services
DIL/MEL

Sec: 27

Twp: 8S

Rge: 22W

Permanent Datum

Ground Level

Elevation 2166

K.B. 2171
D.F. 2166
G.L. 2166

Log Measured From

Kelly Bushing

5 Ft. Above Perm. Datum

Drilling Measured From

Kelly Bushing

5 Ft. Above Perm. Datum

K.B. 2171
D.F. 2166
G.L. 2166

Date

9/28/2012

Run Number

One

Type Log

CNL / CDL

Depth Driller

3830

Depth Logger

3832

Bottom Logged Interval

3811

Top Logged Interval

3050

Type Fluid In Hole

Chemical

Salinity, PPM CL

900

Density

9.2

Level

Full

Max. Rec. Temp. F

114

Operating Rig Time

4 Hours

Equipment -- Location

15 Hays

Recorded By

R. Barnhart

Witnessed By

Marc Downing

Borehole Record

From To

Size Wgt.

From To

To

Run No

Bit From

To

Size Wgt.

From To

One

12.25 00

232

8.625 23#

00 232

Two

7.875 232

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

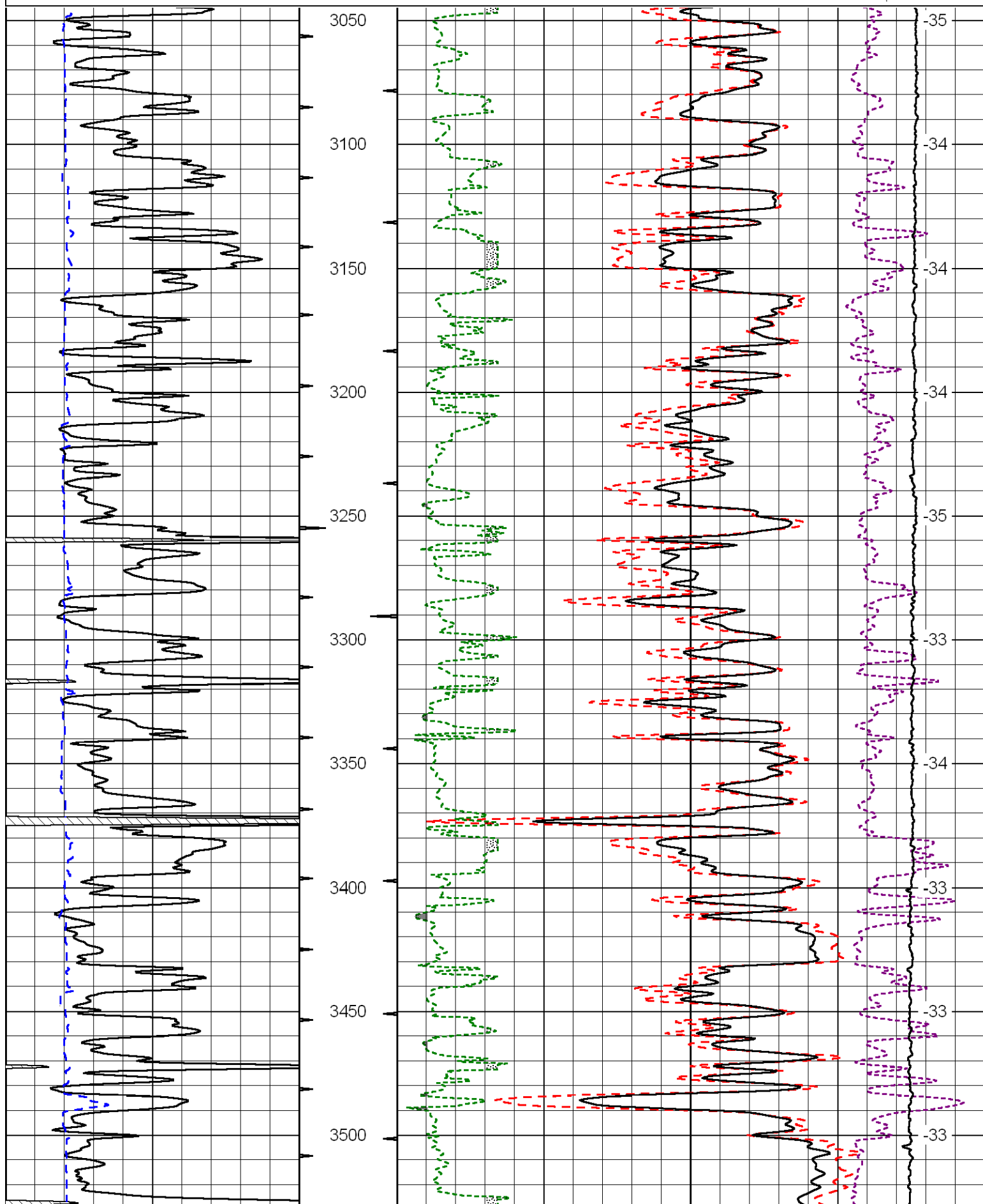
Thank you for using Log-Tech, Inc.
(785) 625-3858

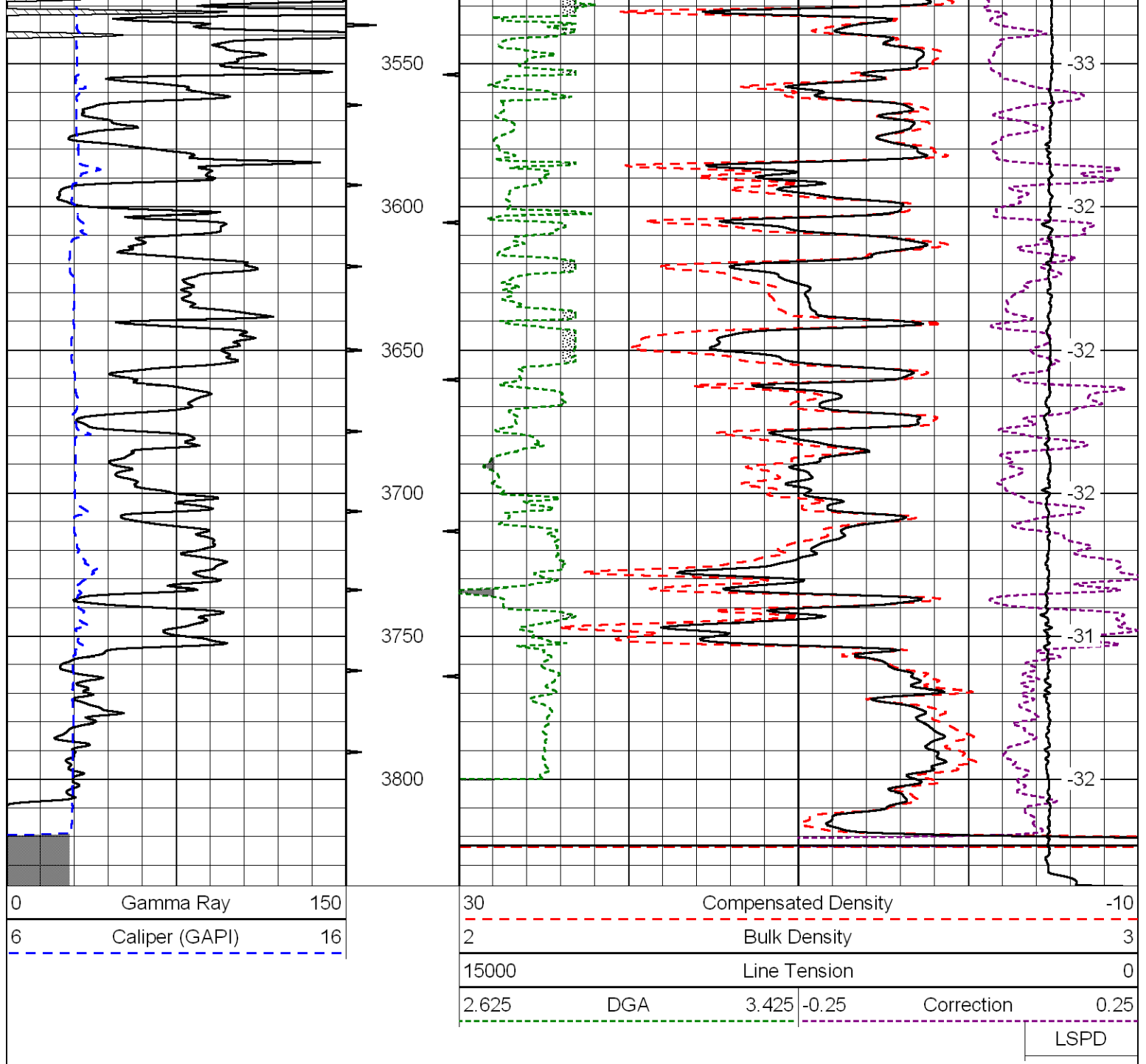
Bogue, KS:
1S, 3 1/2W, S into

Database File: h&c_hd.db
Dataset Pathname: dil/hcmain
Presentation Format: cdl
Dataset Creation: Fri Sep 28 06:15:26 2012
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: h&c_hd.db
 Dataset Pathname: dil/hcmain
 Presentation Format: cndlspec
 Dataset Creation: Fri Sep 28 06:15:26 2012
 Charted by: Depth in Feet scaled 1:240

