



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-185-23,852-00-00

Company H&D Exploration, LLC

Well Hearn-Debes No. 1

Field

County Stafford

State Kansas

Location

SW-SE-SE-SW
142' FSL & 2284' FWL

Other Services
DIL
MEI/BHCS

Sec: 3

Twp: 25S

Rge: 12W

Permanent Datum

Ground Level
Kelly Bushing

Elevation 1868
8 Ft. Above Perm. Datum

Elevation

K.B. 1876
D.F. 1868
G.L. 1868

Date

2/1/14

Run Number

One

Type Log

CNL / CDL

Depth Driller

4220

Depth Logger

4216

Bottom Logged Interval

4195

Top Logged Interval

3200

Type Fluid In Hole

Chemical

Salinity, PPM CL

7,200

Density

8.9

Level

Full

Max. Rec. Temp. F

118

Operating Rig Time

5 Hours

Equipment -- Location

15 Hays

Recorded By

J. Henrickson

Witnessed By

Josh Austin

Borehole Record

Casing Record

Run No.

Bit

From

To

Size

Wgt.

From

To

One

12.25

00

680

8.625

23#

00

680

Two

7.875

680

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

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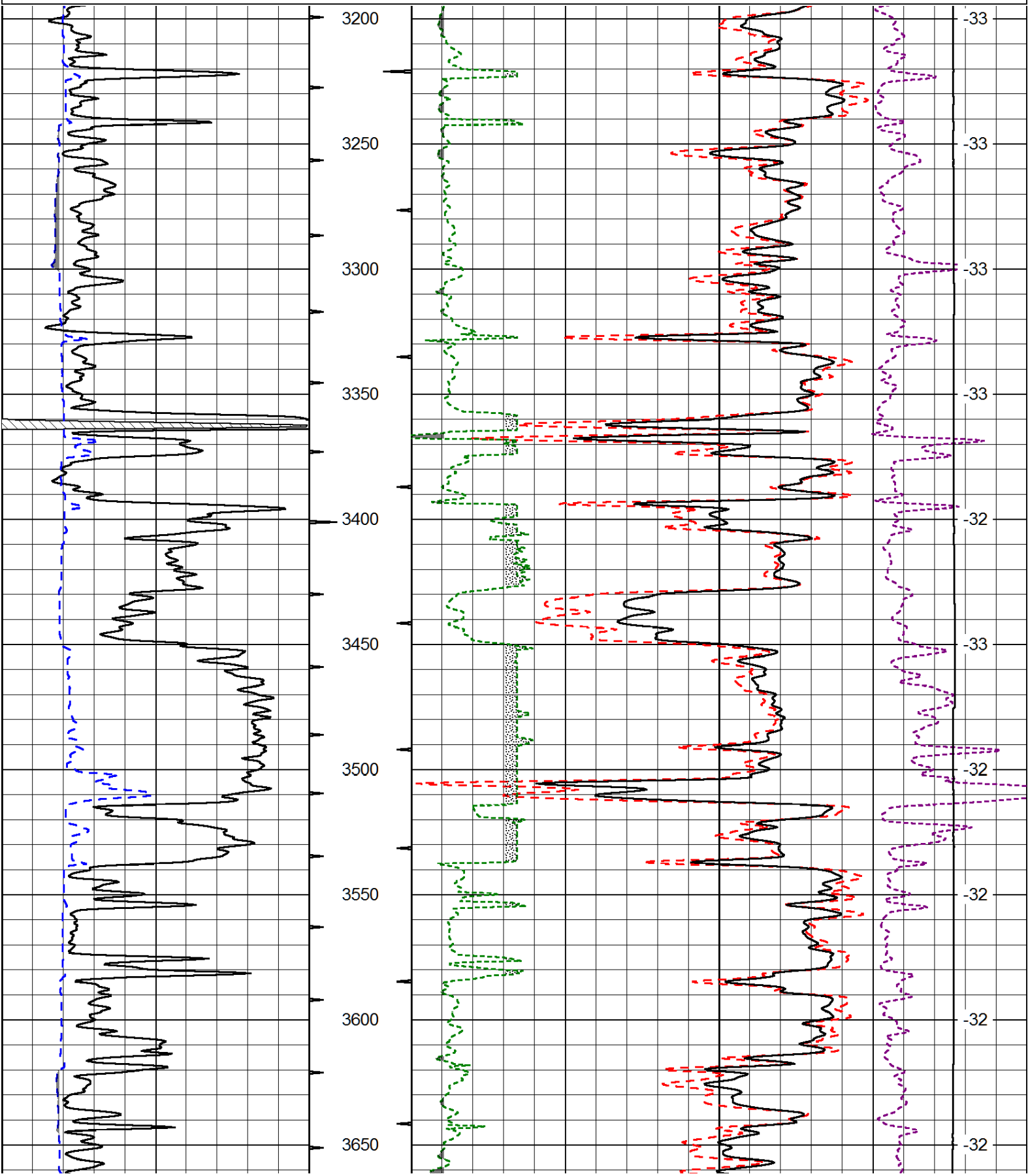
Stafford Kansas
4 South, 1 1/2 West, North Into

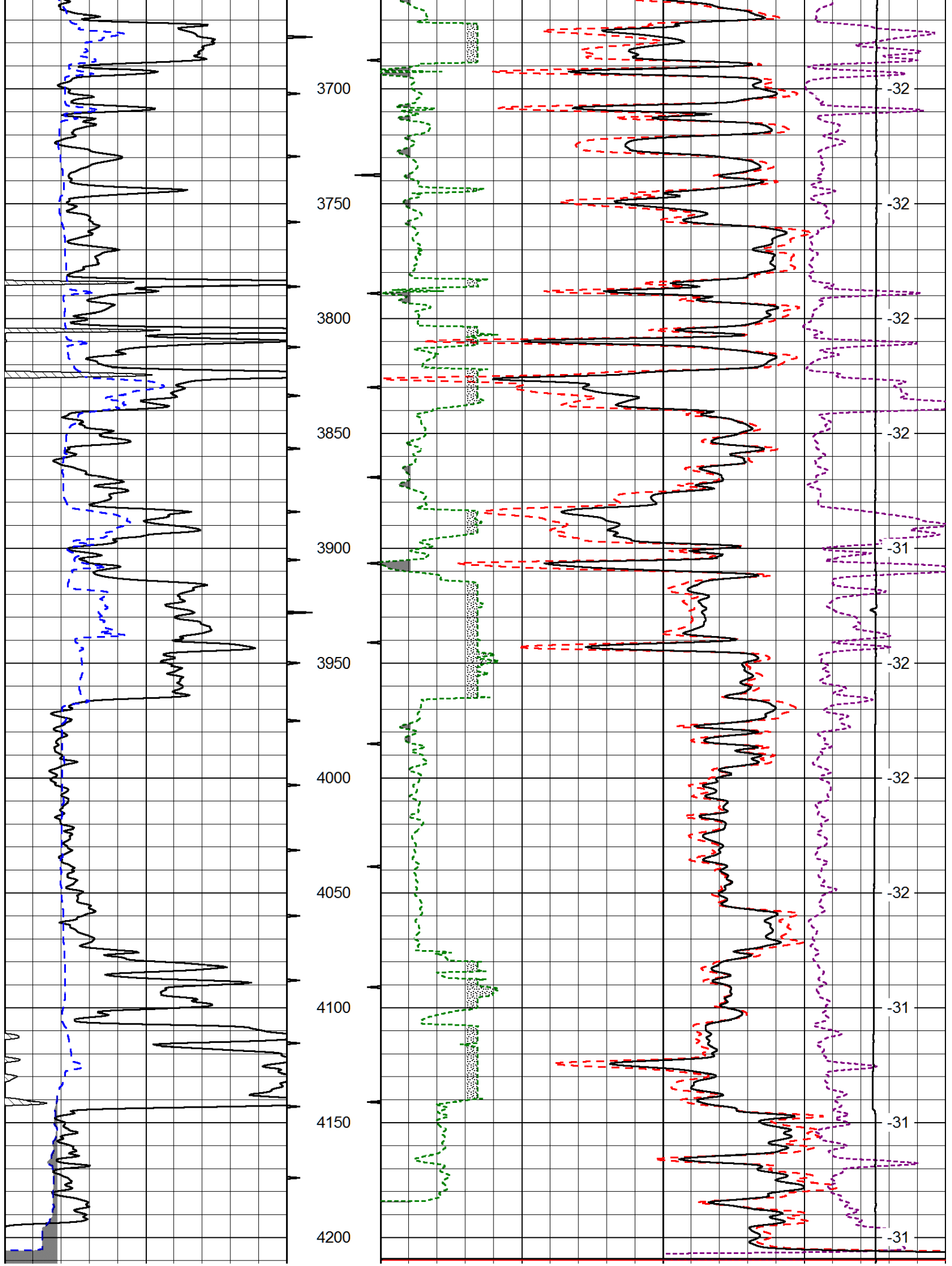
Database File: hd_hearn_debes_unit_1hd.db
Dataset Pathname: DIL/hdstk
Presentation Format: cdl
Dataset Creation: Sat Feb 01 05:37:13 2014
Charted by: Depth in Feet scaled 1:600

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)





0	Gamma Ray (GAPI)	150	30	Compensated Density (pu)		-10
6	Caliper (in)	16	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)	

Database File:	hd_hearn_debes_unit_1hd.db
Dataset Pathname:	DIL/hdstk
Presentation Format:	cnclspec
Dataset Creation:	Sat Feb 01 05:37:13 2014
Charted by:	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	30	CNPOR (pu)		-10
6	Caliper (in)	16	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)

