



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-185-22075-00-01

Company H&D Exploration LLC

Well Fritzemeier "B" Unit #1 OWWO

Field Unknown

County Stafford State Kansas

Location 2324' FSL & 2325' FEL

Sec: 3 Twp: 25 S Rge: 12 W

Other Services
DIL/MEI

Permanent Datum Ground Level Elevation 1868
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date 02-09-2014

Run Number One

Type Log CNL / CDL

Depth Driller 4168

Depth Logger 4140

Bottom Logged Interval 4119

Top Logged Interval 3200

Type Fluid In Hole Chemical

Salinity, PPM CL 5400

Density 8.65

Level Full

Max. Rec. Temp. F 120

Operating Rig Time 4 Hours

Equipment -- Location 91 Days

Recorded By Y. Ruiz

Witnessed By Josh Austin

Borehole Record

Casing Record

Run No. Bit From To Size Wgt. From To

One 12.25 00 338 8.625 23# 00 338

Two 7.875 338 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

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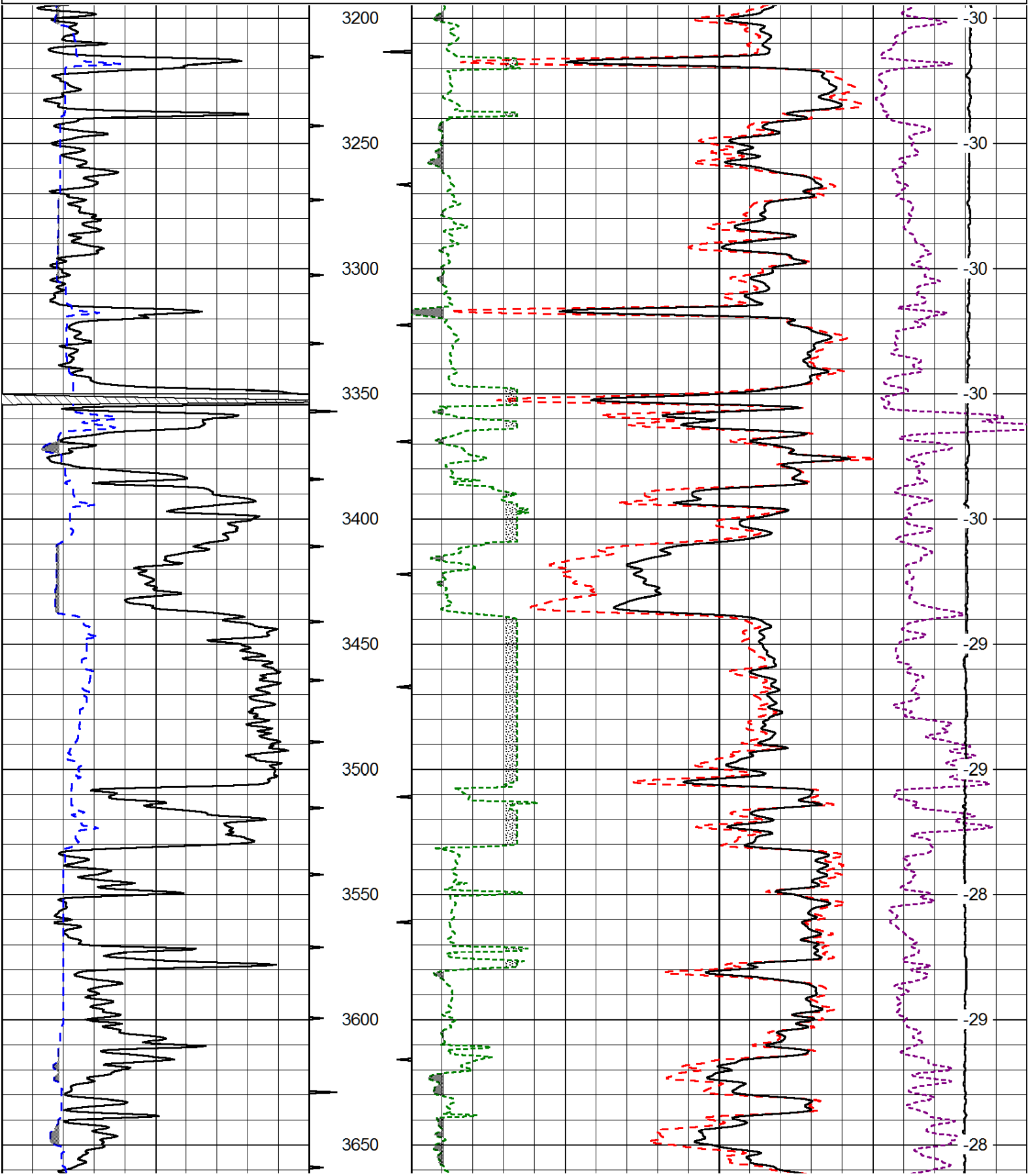
Stafford,
4 South, 1 1/2 West,
North into

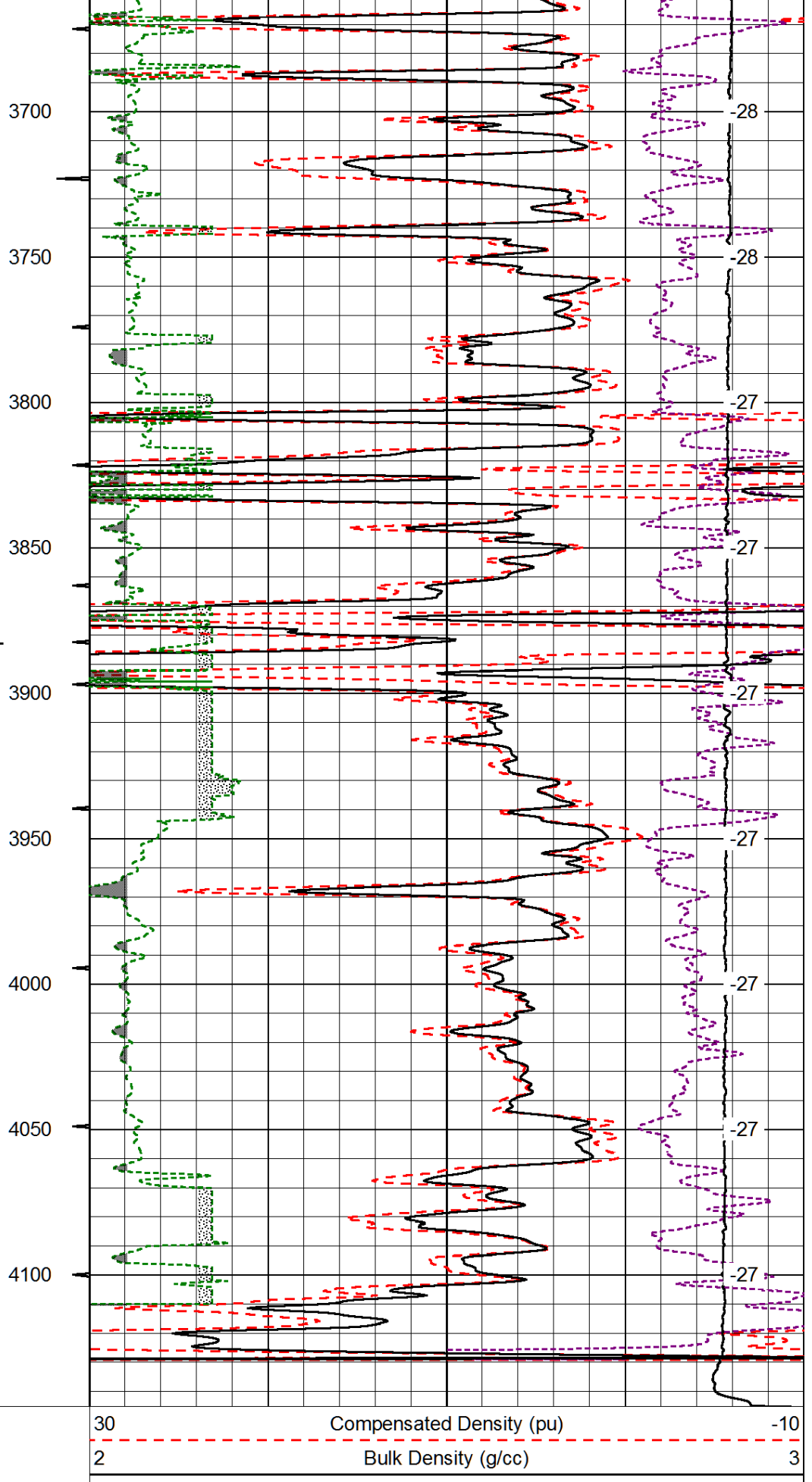
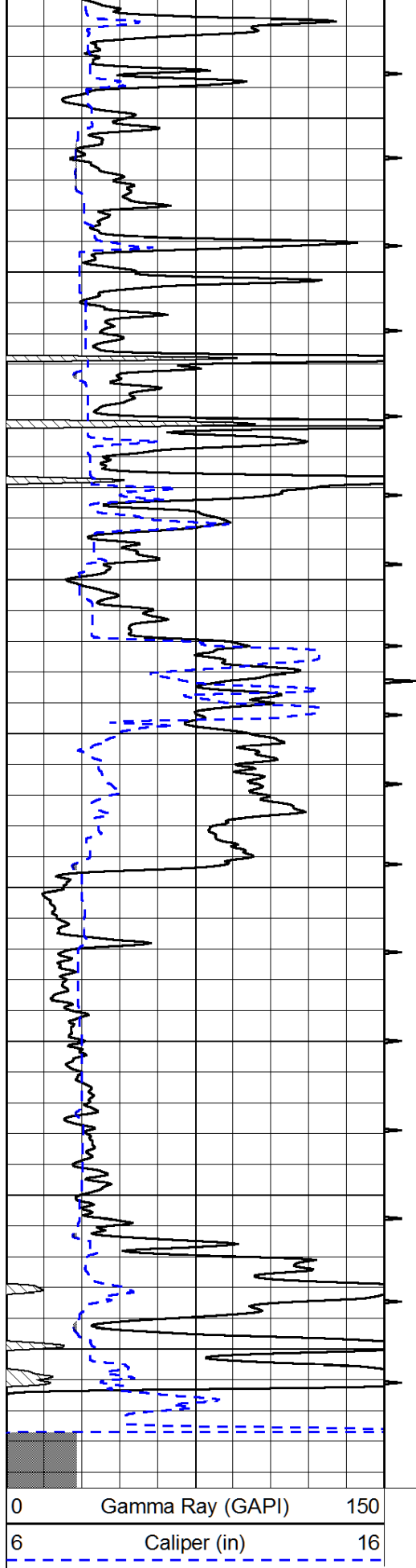
Database File: h&d_020914hd.db
Dataset Pathname: DIL/hdstk
Presentation Format: cdl
Dataset Creation: Sun Feb 09 23:07:45 2014
Charted by: Depth in Feet scaled 1:600

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
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)

Database File: h&d_020914hd.db
Dataset Pathname: DIL/hdstk
Presentation Format: cndlspec
Dataset Creation: Sun Feb 09 23:07:45 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)

