



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-145-21713-00-00

Company H&D Exploration, LLC

Well Mermis #1

Field Ash Creek

County Pawnee

State Kansas

Location 2462' FNL & 1341' FEL

Other Services
DIL/MEI

Sec: 2 Twp: 21 S Rge: 16 W

Permanent Datum Ground Level Elevation 1995
Log Measured From Kelly Bushing 12 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 2007
D.F. 1995
G.L. 1995

Date 3-29-2013

Run Number One

Type Log CNL / CDL

Depth Driller 3915

Depth Logger 3917

Bottom Logged Interval 3896

Top Logged Interval 3200

Type Fluid In Hole Chemical

Salinity, PPM CL 9600

Density 9.2

Level Full

Max. Rec. Temp. F 117

Operating Rig Time 3 1/2 Hours

Equipment -- Location 91 Days

Recorded By Y. Ruiz

Witnessed By D. Schmidt

Borehole Record

Casing Record

Run No. Bit From To Size Wgt. From To

One 12.25 00 1000 8.625 23# 00 1000

Two 7.875 1000 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

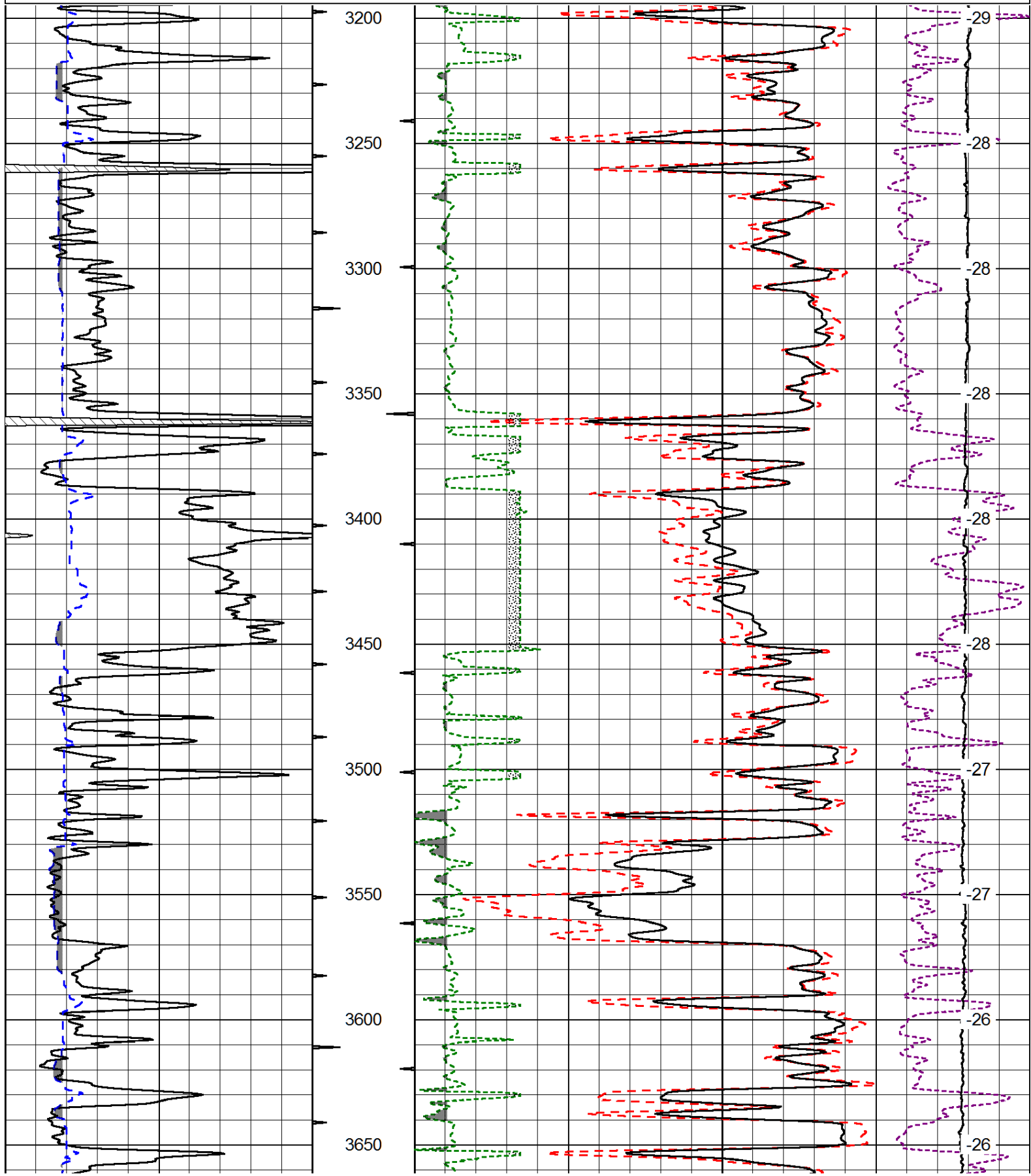
Thank you for using Log-Tech, Inc.
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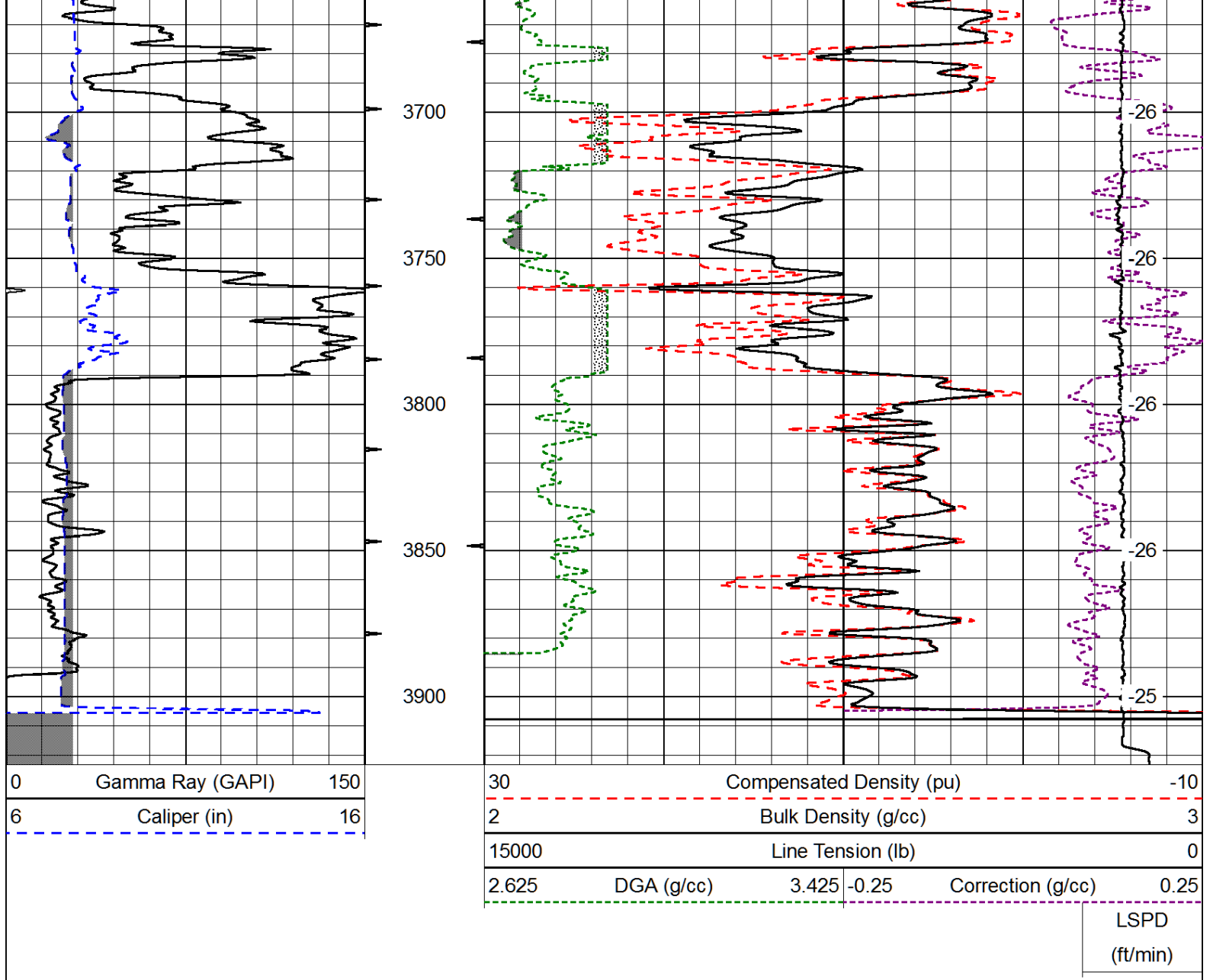
Pawnee Rock,
3 West on T Rd, 1/2 South,
West into

Database File: hdexploration_32913hd.db
Dataset Pathname: dil/hdstck
Presentation Format: cdl
Dataset Creation: Fri Mar 29 13:50:27 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)		





Database File: hdexploration_32913hd.db
 Dataset Pathname: dil/hdstck
 Presentation Format: cndlspec
 Dataset Creation: Fri Mar 29 13:50:27 2013
 Charted by: Depth in Feet scaled 1:240

