



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-063-22,209-00-00

Company Cobalt Energy, LLC

Well Yale "A" #1-24

Field

County Gove

State Kansas

Location 1585' FSL & 750' FWL

Sec: 24 Twp: 11S Rge: 29W

Other Services
DIL
MEL

Permanent Datum Ground Level Elevation 2821

Log Measured From Kelly Bushing 12 Ft. Above Perm. Datum

Elevation
K.B. 2833
D.F.
G.L. 2821

Date 8/22/2014

Run Number One

Type Log CNL / CDL

Depth Driller 4650

Depth Logger 4655

Bottom Logged Interval 4634

Top Logged Interval 3700

Type Fluid In Hole Chemical

Salinity, PPM CL 1,900

Density 9.4

Level Full

Max. Rec. Temp. F 123

Operating Rig Time 3 Hours

Equipment -- Location 91 Days

Recorded By C. Desaire

Witnessed By Cliff Ottoway

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
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1	12.25	00	265	8.625	24#	00	265
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2	7.875	265	4650				
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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

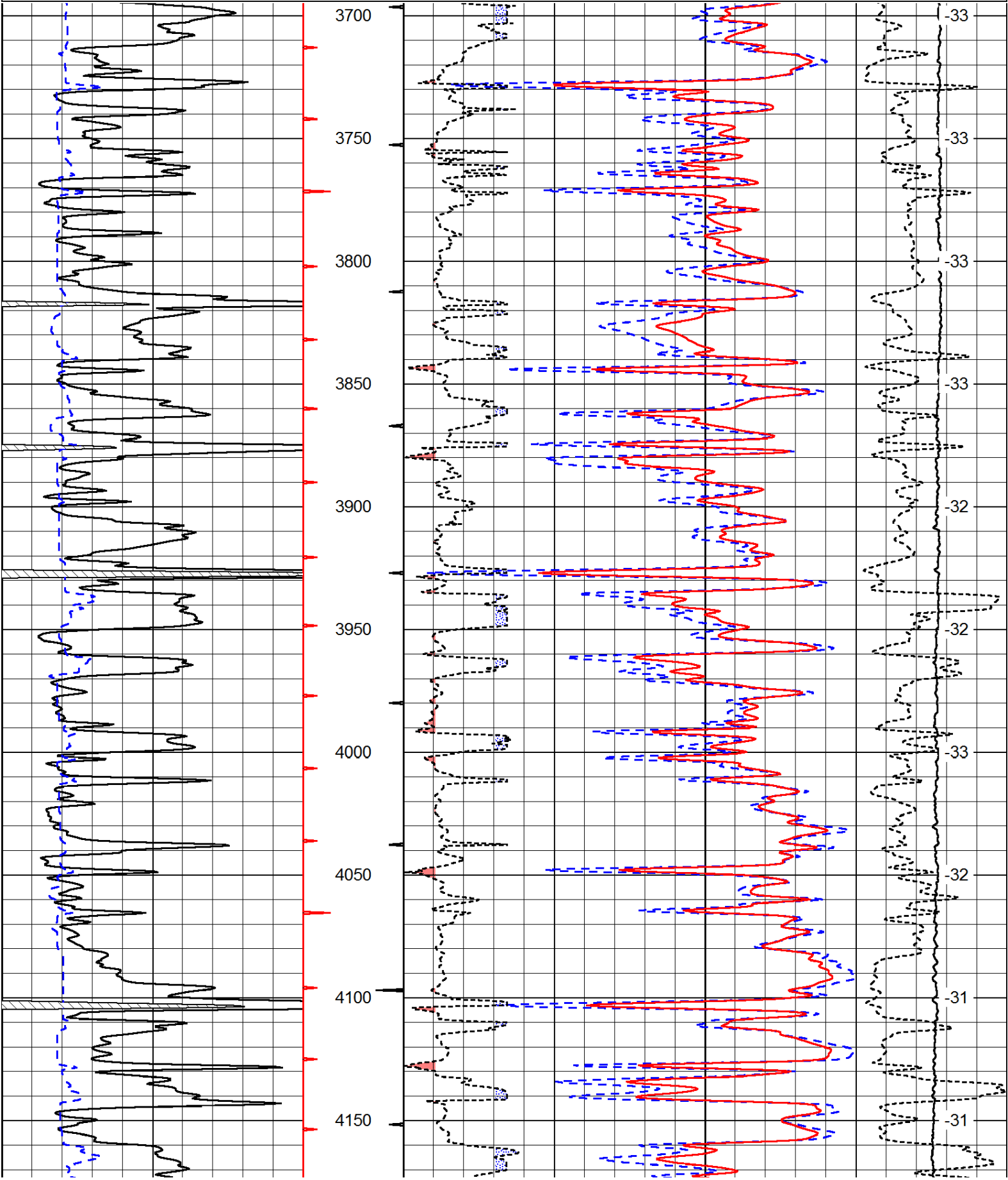
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

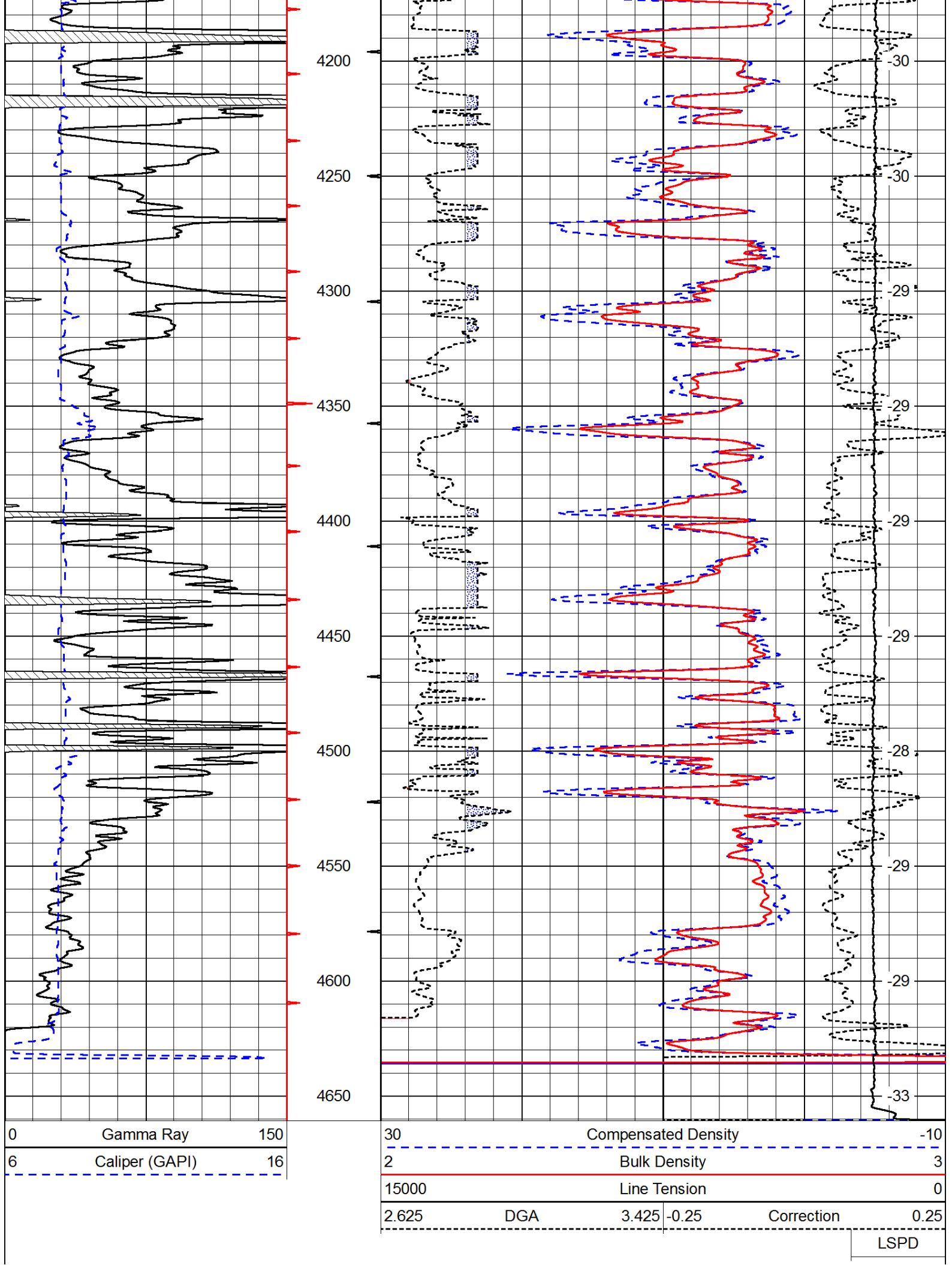
Grainfield KS, 2 S,
1 W, 1/2 N, E Into

Database File: c:\warrior\data\cobalt_yale a #1-24\cobhd2.db
Dataset Pathname: dil/cobstk2
Presentation Format: cdl
Dataset Creation: Fri Aug 22 12:23:19 2014
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: c:\warrior\data\cobalt_yale a #1-24\cobhd2.db
Dataset Pathname: dil/cobstk2
Presentation Format: cndlspec
Dataset Creation: Fri Aug 22 12:23:19 2014
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150	30	Compensated Neutron (Limestone)		-10
6	Caliper (GAPI)	16	30	Compensated Density (Limestone)		-10
			2.625	DGA	3.425	-0.25
			Correction		0.25	
			15000	Line Tension		0
						LSPD

