



Pioneer Energy Services

Dual Compensated Porosity Log

15-109-21,138-00-00

API No. 15-109-21,138-00-00

Company **Blake Exploration, LLC**
 Well **Audrey No. 1**
 Field
 County **Logan** State **Kansas**

Location **NW SE SE SW
 400' FSL & 2,100' FWL**

Sec: **31** Twp: **13S** Rge: **32W**

Ground Level **Elevation 2864**
 Log Measured From **Kelly Bushing** 11 Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

Other Services
 DIL
 MEL/BHCS

Elevation
 K.B. 2875
 D.F. G.L. 2864

Date	11/14/2012
Run Number	One
Type Log	CNL / CDL
Depth Driller	4550
Depth Logger	4547
Bottom Logged Interval	4526
Top Logged Interval	3600
Type Fluid In Hole	Chemical
Salinity, PPM CL	8000
Density Level	9.3
Level	Full
Max. Rec. Temp. F	122
Operating Rig Time	4 1/2 Hours
Equipment -- Location	108 Hays
Recorded By	J. Long
Witnessed By	Michael A. Davignon

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	224	8.625	24#	00	224
2	7.875	224	4550				

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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

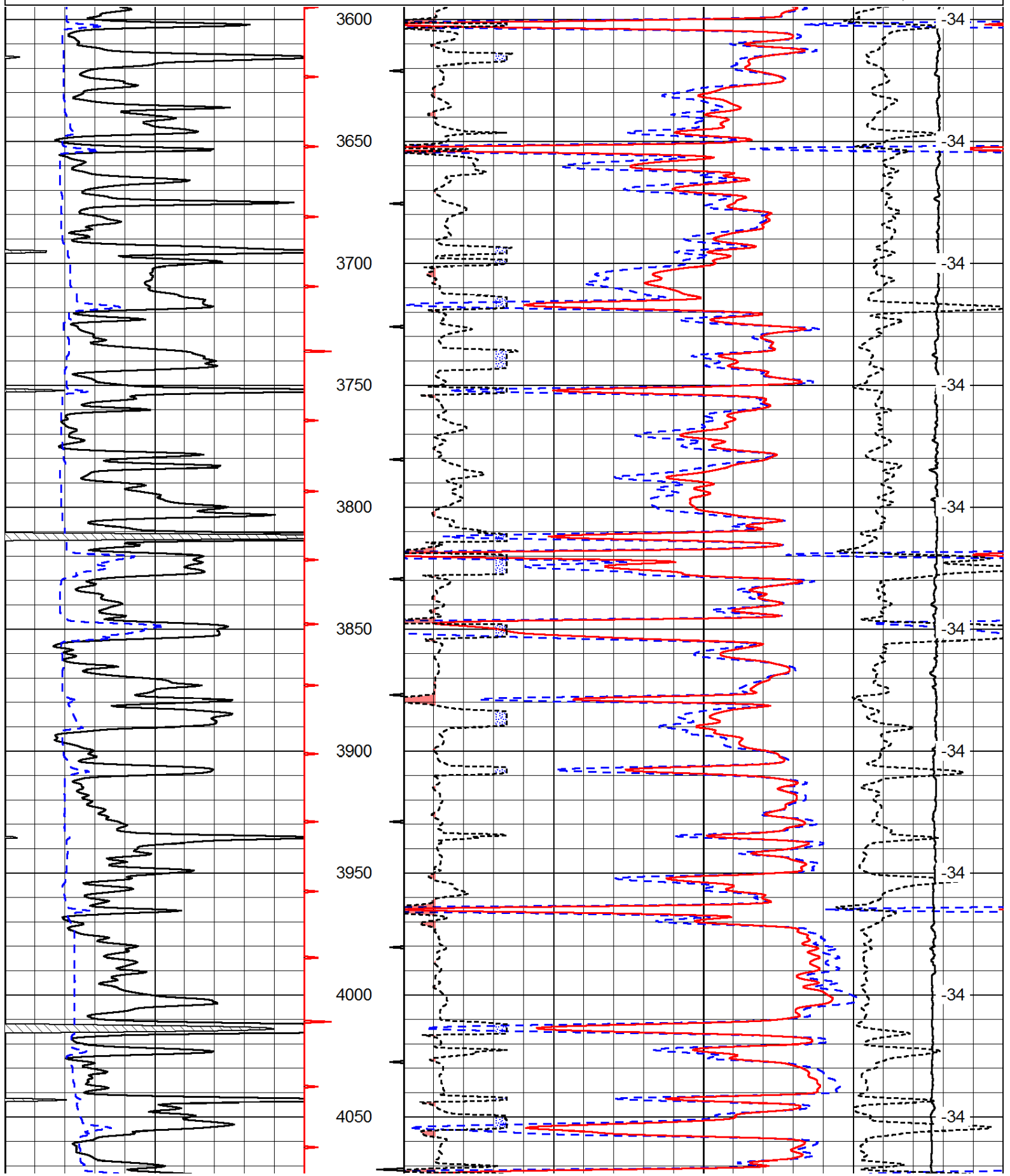
Thank you for using Pioneer Energy Services
www.pioneerenergy.com
 785 625 3858

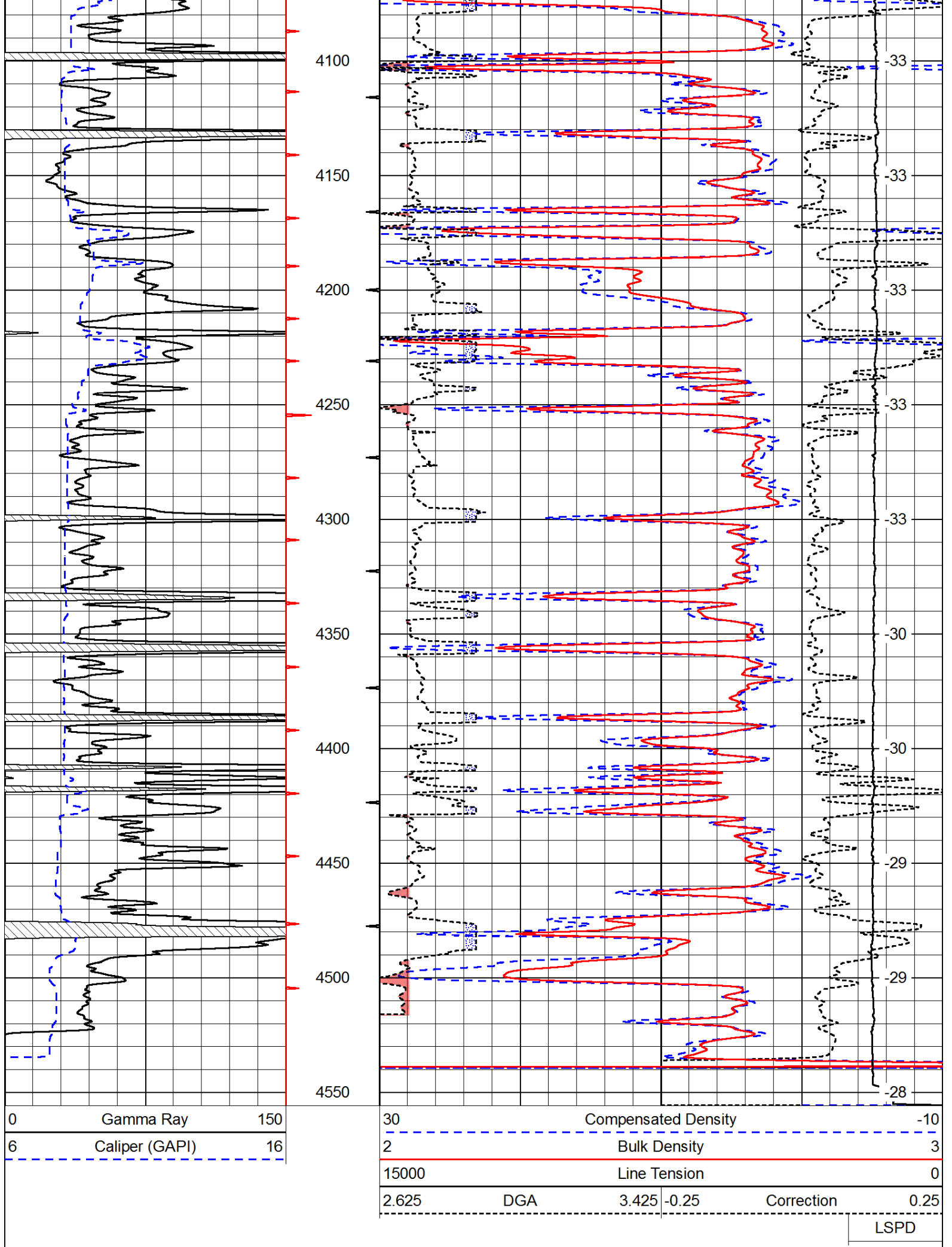
Oakley, 17 South to Mustang Road, 3 1/2 West, North Into

Database File: c:\warrior\data\blake exp_audrey #1\blake_audrey_1hd.db
 Dataset Pathname: dil/blakstck
 Presentation Format: cdl
 Dataset Creation: Tue Nov 13 07:08:11 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: c:\warrior\data\blake exp_audrey #1\blake_audrey_1hd.db
 Dataset Pathname: dil/blakstck
 Presentation Format: cndlspec
 Dataset Creation: Tue Nov 13 07:08:11 2012
 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
			Line Tension			0

LSPD

