



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-053-21,300-00-00

Company American Warrior, Inc.
Well Grubb Unit #1-5
Field Stollenberg
County Ellsworth State Kansas

Location NE NE SE SW
1171' FSL & 2610' FWL
Sec: 5 Twp: 16S Rge: 10W

Other Services
DIL
MEL

Permanent Datum Ground Level Elevation 1818
Log Measured From Kelly Bushing 8 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 1826
D.F.
G.L. 1818

Date 1/9/2014

Run Number One

Type Log CNL / CDL

Depth Driller 3407

Depth Logger 3407

Bottom Logged Interval 3386

Top Logged Interval 2650

Type Fluid In Hole Chemical

Salinity, PPM CL 8500

Density 9.6

Level Full

Max. Rec. Temp. F 110

Operating Rig Time 3 1/2 Hours

Equipment -- Location 15 Days

Recorded By D Kerr

Witnessed By Clint Musgrove

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
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1	12.25	00	394	8.625	24#	00	394
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2	7.875	394	3407				
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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.

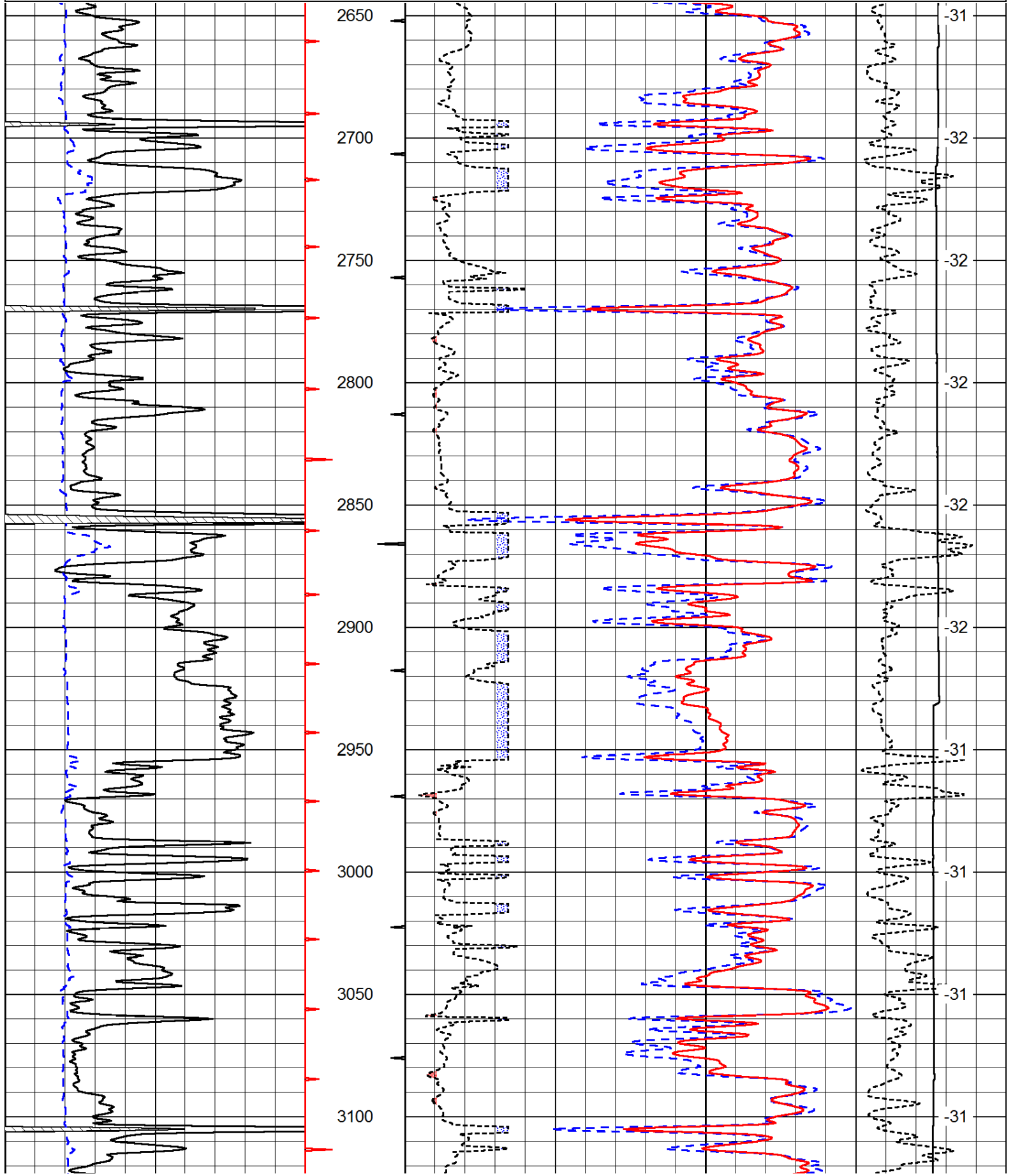
Comments

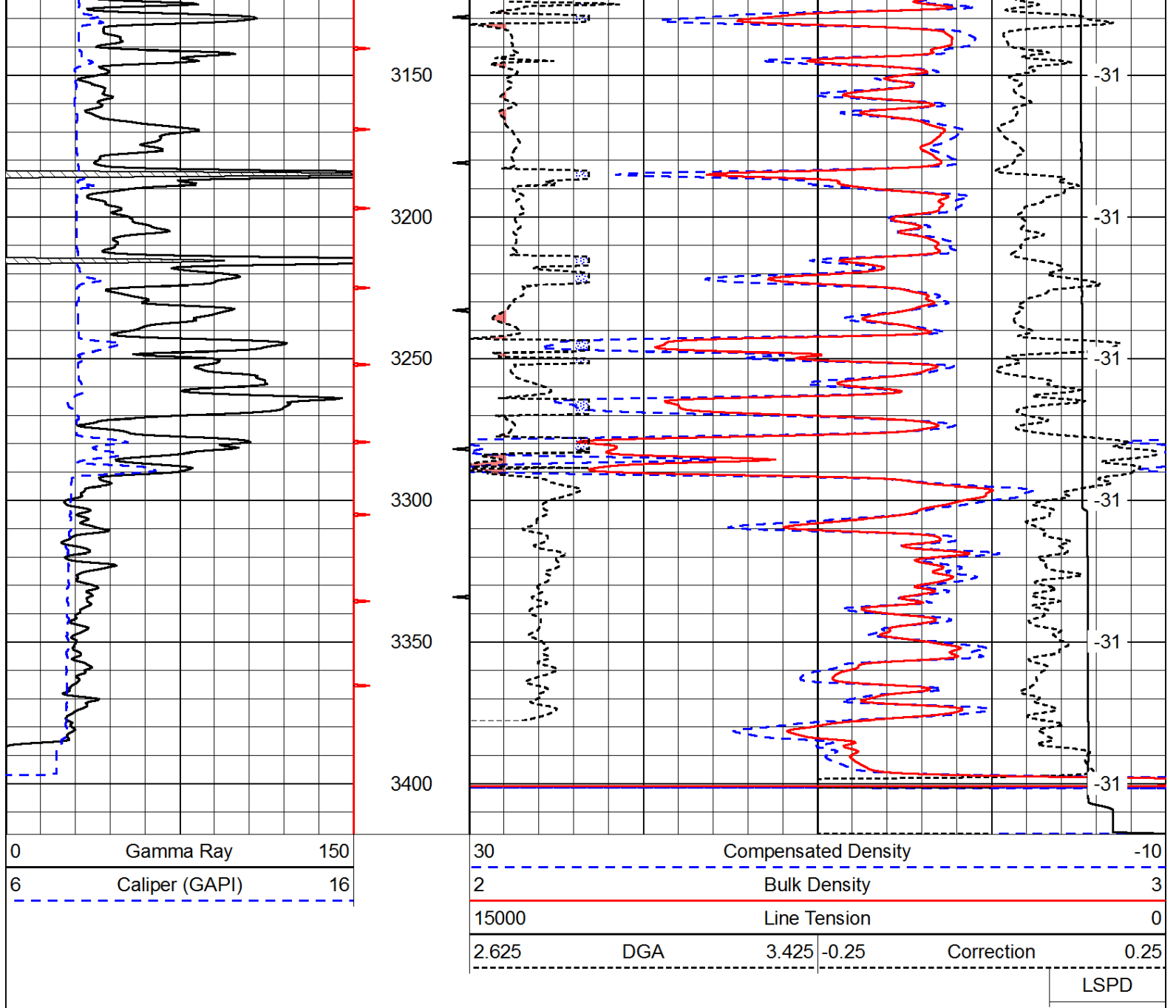
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

Wilson KS, 10 South,
1 1/2 East, North Into

Database File: c:\warrior\data\amwar_grubb unit #1-5\amwarrior_grubbunit_1_5hd.db
Dataset Pathname: DIL\awstk
Presentation Format: cdl
Dataset Creation: Thu Jan 09 12:45:53 2014
Charted by: Depth in Feet scaled 1:600

Charted by:			Depth in Feet scaled 1:600			
0	Gamma Ray	150	30	Compensated Density		-10
6	Caliper (GAPI)	16	2	Bulk Density		3
			15000	Line Tension		0
			2.625	DGA	3.425	-0.25
			Correction		0.25	
			LSPD			





Database File: c:\warrior\data\amwar_grubb unit #1-5\amwarrior_grubbunit_1_5hd.db
 Dataset Pathname: DIL/awstk
 Presentation Format: cndlspec
 Dataset Creation: Thu Jan 09 12:45:53 2014
 Charted by: Depth in Feet scaled 1:240

