



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-101-22,553-00-00

Company **Larson Engineering, Inc.**

Well **Buena Vista #1-18**

Field **Wildcat**

County **Lane** State **Kansas**

Location **1220' FSL & 2532' FWL**

Sec: **18** Twp: **17S** Rge: **29W**

Permanent Datum **Ground Level** Elevation **2828**

Log Measured From **Kelly Bushing** 9 Ft. Above Perm. Datum

Drilling Measured From **Kelly Bushing** K.B. 2837
D.F. 2828
G.L. 2828

Other Services
DIL
MEL

Date **2/21/2015**

Run Number **One**

Type Log **CNL / CDL**

Depth Driller **4560**

Depth Logger **4556**

Bottom Logged Interval **4535**

Top Logged Interval **3600**

Type Fluid In Hole **Chemical**

Salinity, PPM CL **1,700**

Density **9.1**

Level **Full**

Max. Rec. Temp. F **122**

Operating Rig Time **4 Hours**

Equipment -- Location **51 Hays**

Recorded By **C. Desaire**

Witnessed By **Vern Schrag**

Borehole Record

Casing Record

Run No. Bit From To Size Wgt. From To

1 12.25 00 264 8.625 24# 00 264

2 7.875 264 4560

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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

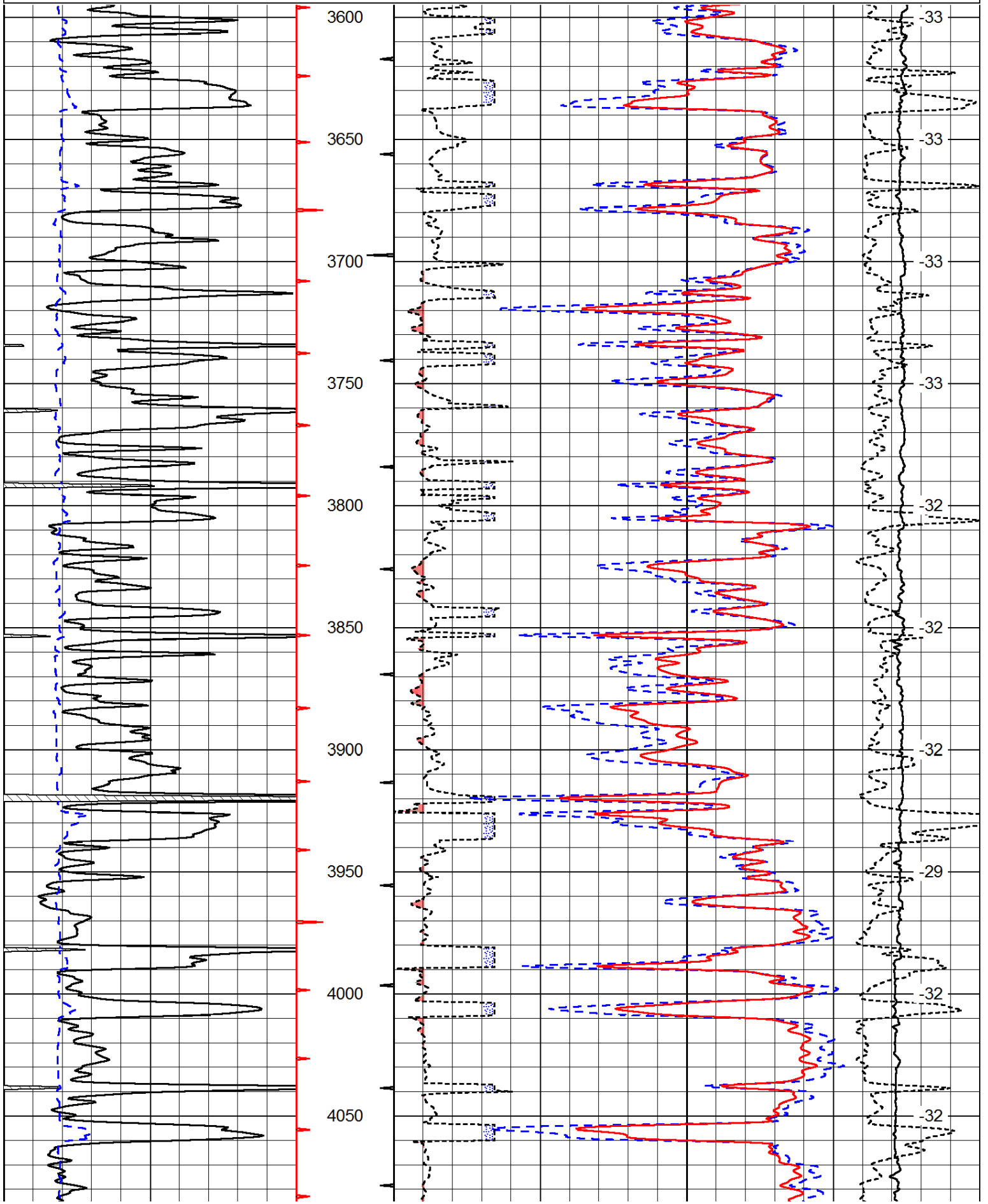
Thank you for using Pioneer Energy Services
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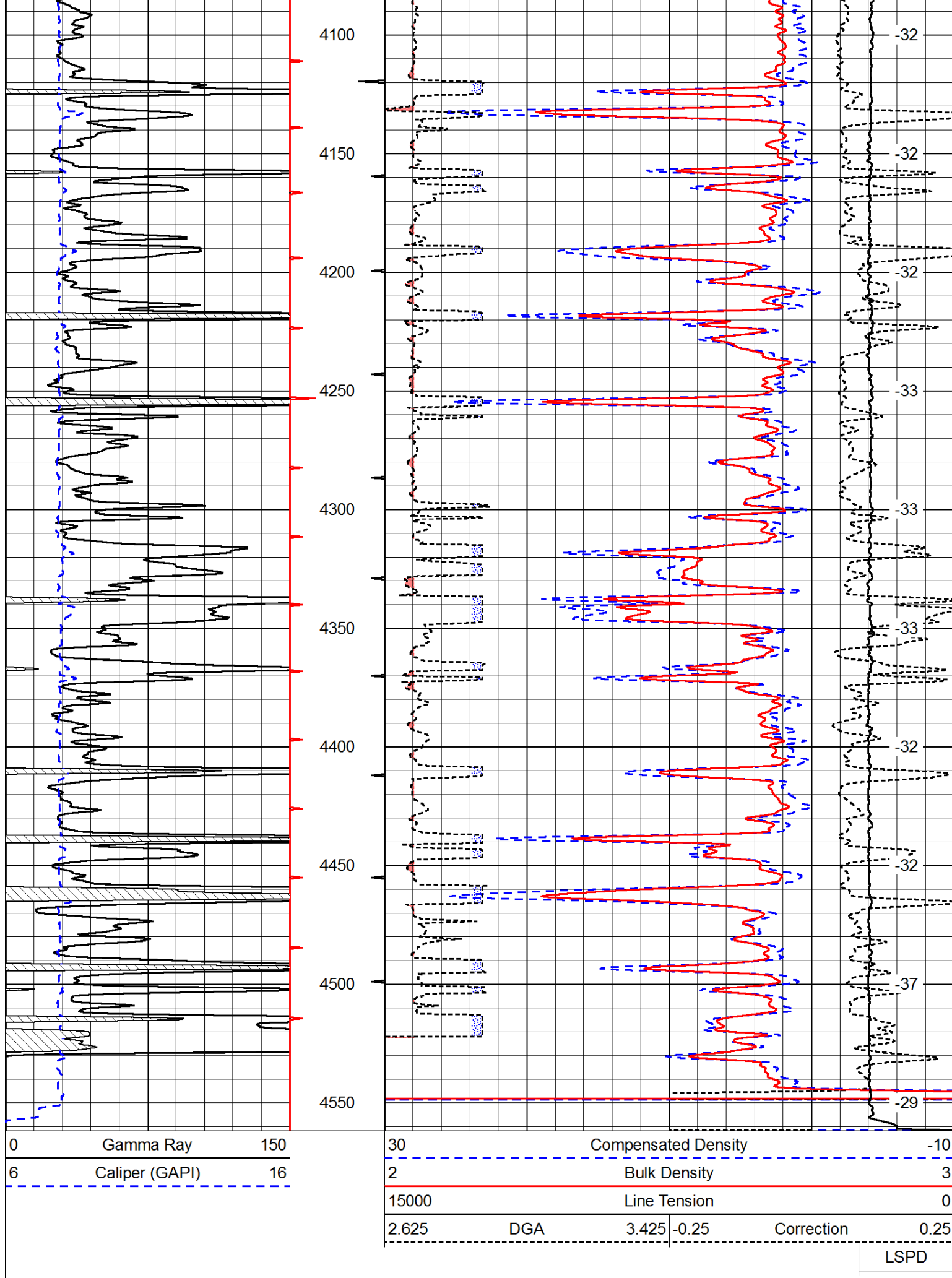
Healy KS, E to Eagle Rd, S to 210 Rd,
1 1/2 E, N Into

Database File: c:\warrior\data\larson_buena vista #1-18\lrsnhd.db
Dataset Pathname: dil\lrsnstk
Presentation Format: cdl
Dataset Creation: Sat Feb 21 16:49:29 2015
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\larsen_buena vista #1-18\lrsnhd.db
Dataset Pathname: dil\lrsnstk
Presentation Format: cndlspec
Dataset Creation: Sat Feb 21 16:49:29 2015
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

