



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-135-25,647-00-00

Company American Warrior, Inc.

Well Joseph No. 2 - 21

Field Chrif

County Ness

State Kansas

Location 1753' FNL & 133' FEL

Other Services
DIL/MEL

Sec: 21 Twp: 19 S Rge: 25 W

Permanent Datum Ground Level Elevation 2471
Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation
K.B. 2482
D.F. 2471
G.L. 2471

Date

8/17/2013

Run Number

One

Type Log

CNL / CDL

Depth Driller

4600

Depth Logger

4596

Bottom Logged Interval

4575

Top Logged Interval

3800

Type Fluid In Hole

Chemical

Salinity, PPM CL

3600

Density

9.4

Level

Full

Max. Rec. Temp. F

122

Operating Rig Time

5 Hours

Equipment -- Location

108 Hays

Recorded By

D. Martin

Witnessed By

Kevin Timson

Borehole Record

Casing Record

Run No.

Bit

From

To

Size

Wgt.

From

To

One

12.25

00

240

8.625

23#

00

240

Two

7.875

240

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

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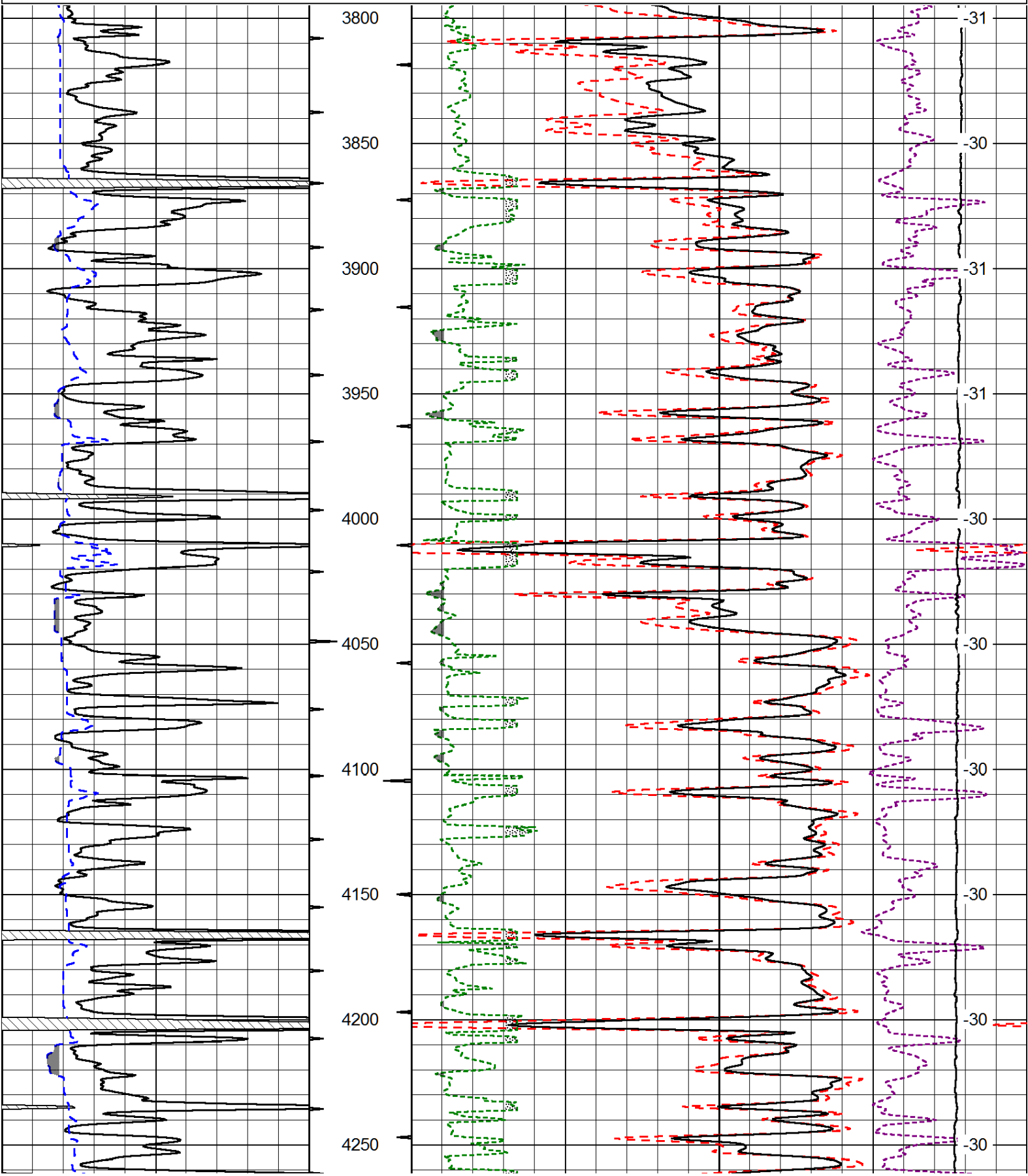
Ness City, KS
W to Laird Elevator, 1/2 W to J Rd.,
4 S, W Into

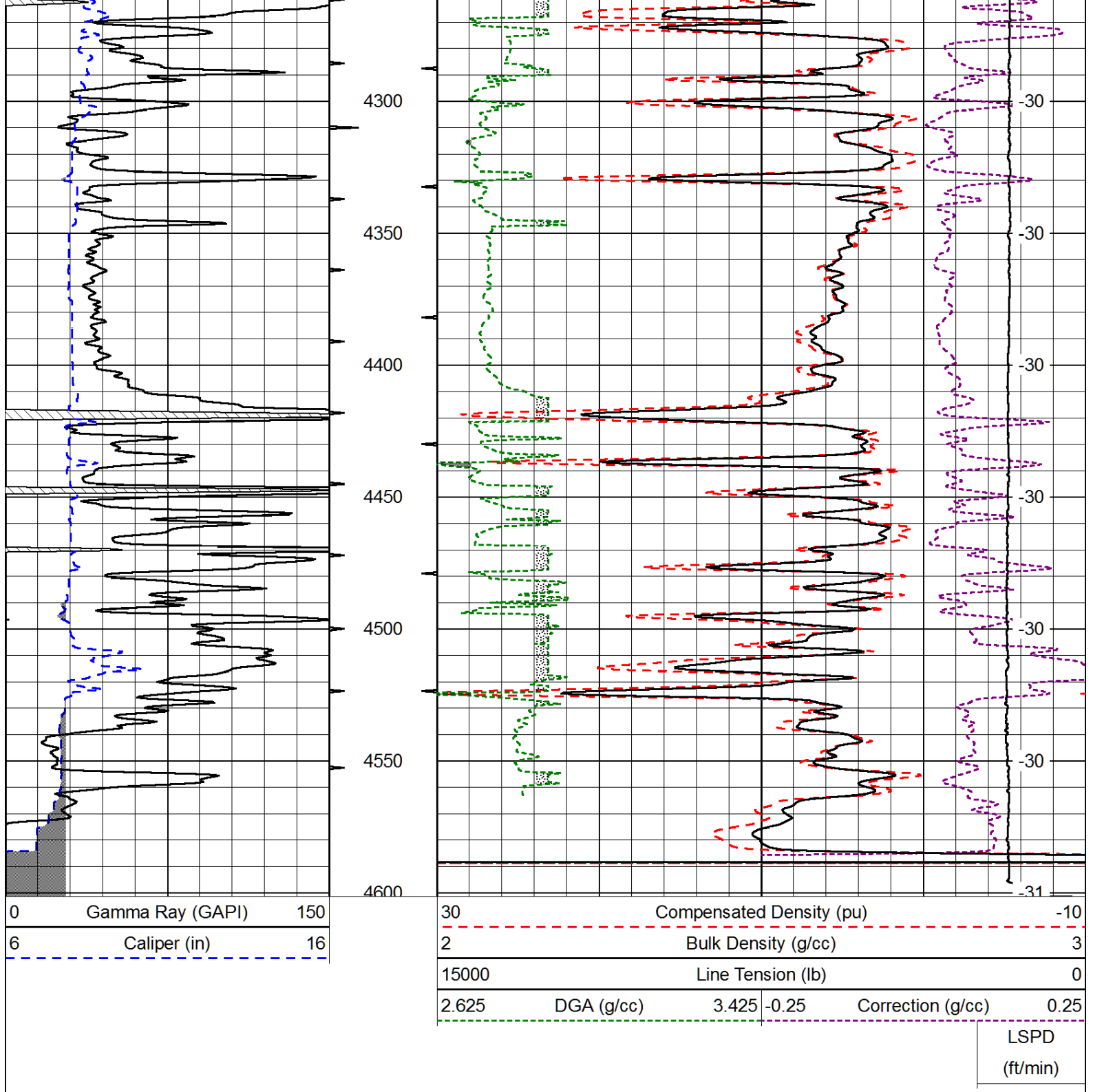
Database File: amwarr_joseph_2-21hd.db
Dataset Pathname: dil/amwstk
Presentation Format: cdl
Dataset Creation: Sat Aug 17 17:54:19 2013
Charted by: Depth in Feet scaled 1:600

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: amwarr_joseph_2-21hd.db
Dataset Pathname: dil/amwstk
Presentation Format: cndlspec
Dataset Creation: Sat Aug 17 17:54:19 2013
Charted by: Depth in Feet scaled 1:240

