



Dual Compensated Porosity Log

Pioneer Energy Services

API No.

15-065-23,899-00-00

Company H&C Oil Operating, Inc.

Well Minium # 23-1

Field Wildcat

County Graham

State Kansas

Location

1600' FSL & 2310' FEL

Sec: 23

Twp: 8 S

Rge: 25 W

Permanent Datum Ground Level
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Elevation 2337

K.B. 2342
D.F.
G.L. 2337

Other Services
DIL
MEL

Date 4/2/2013

Run Number One

Type Log CNL / CDL

Depth Driller 3923

Depth Logger 3924

Bottom Logged Interval 3903

Top Logged Interval 3300

Type Fluid In Hole Chemical

Salinity, PPM CL 1500

Density 9.4

Level Full

Max. Rec. Temp. F 115

Operating Rig Time 4 Hours

Equipment -- Location 15 Days

Recorded By D Kerr

Witnessed By Marc Downing

Borehole Record

Casing Record

Run No.

Bit

From

To

Size

Wgt.

From

To

230

00

8.625

24#

00

230

00

00

00

00

00

00

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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.

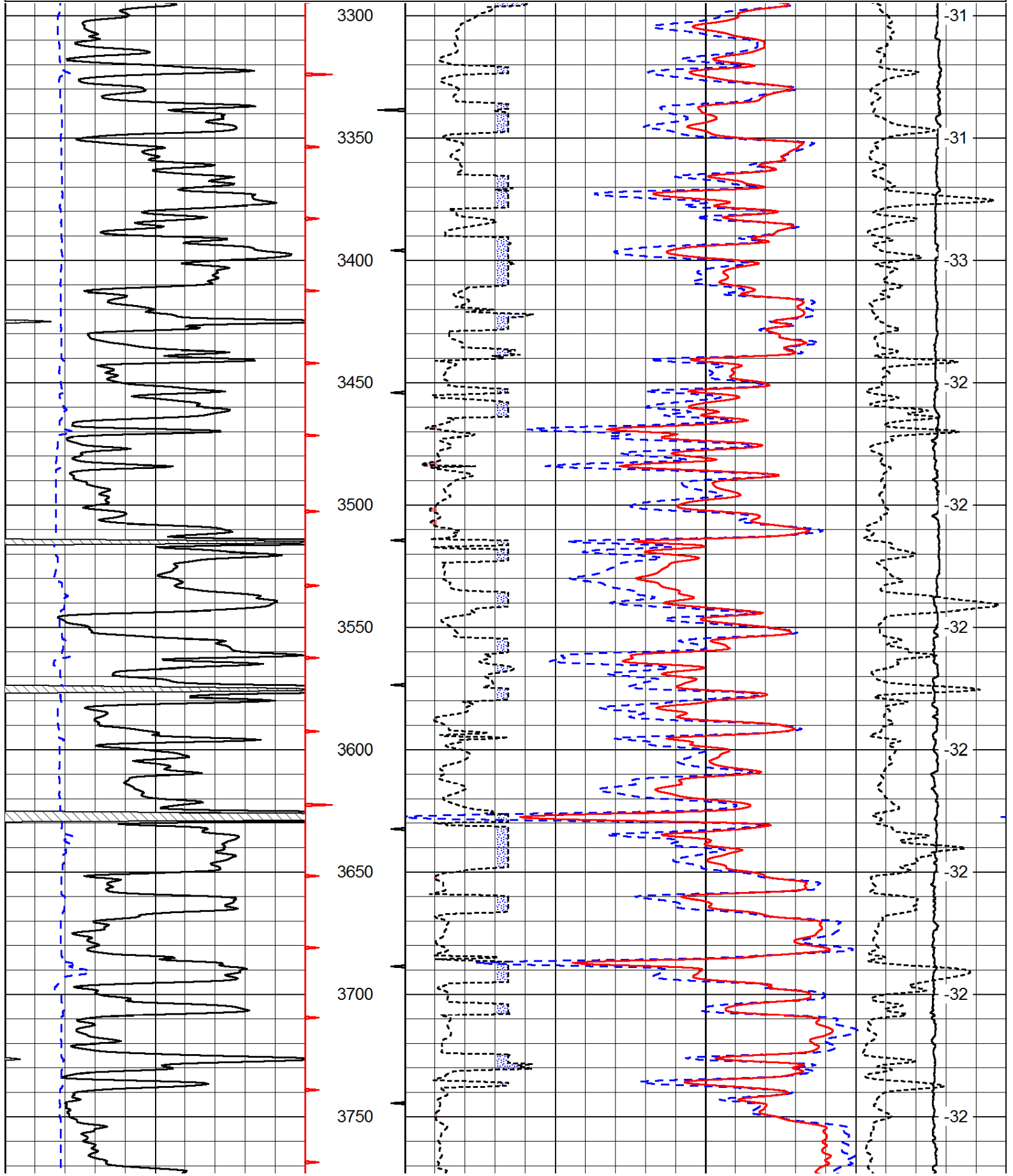
Comments

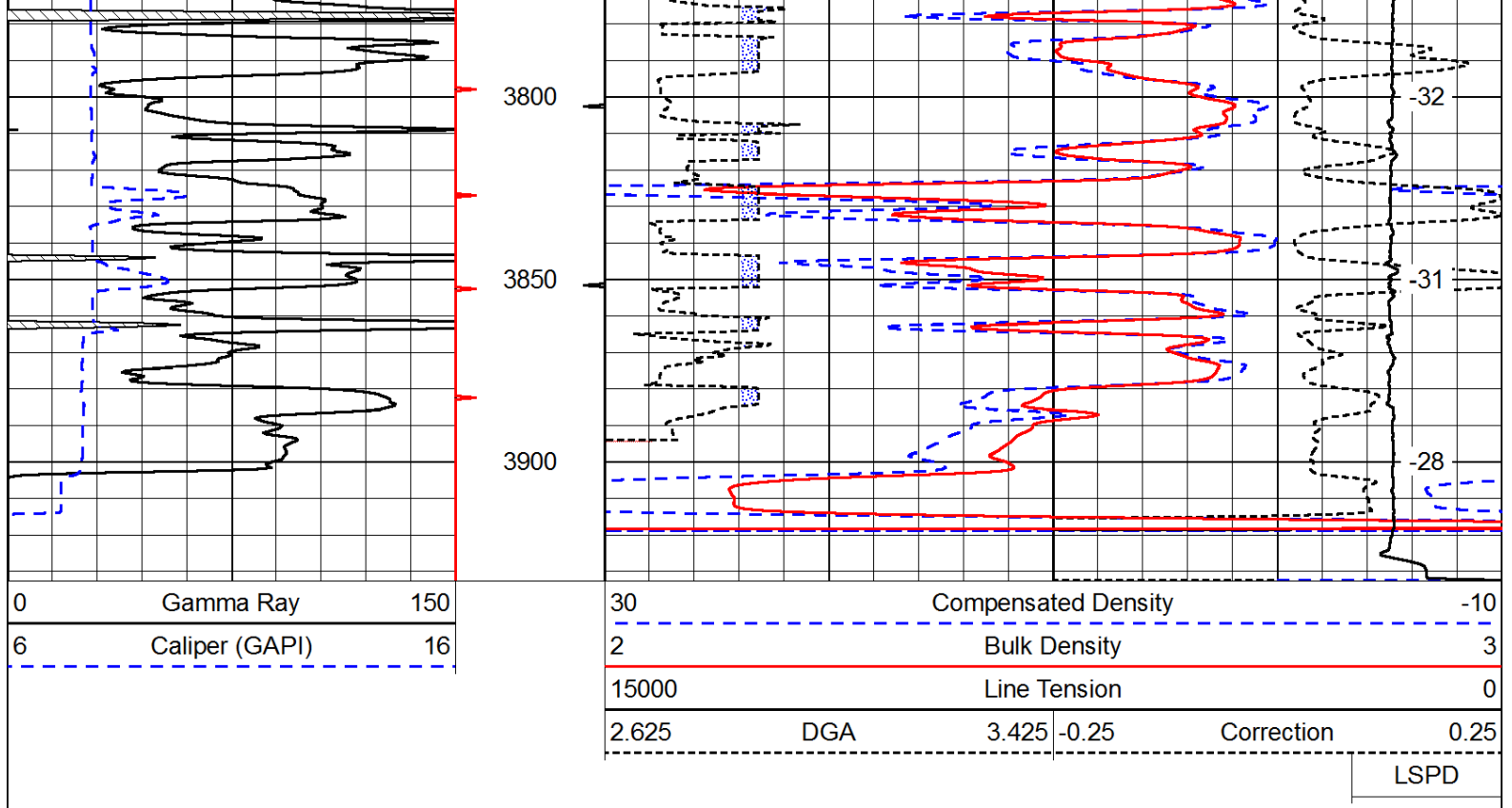
Thank you for using Pioneer Energy Services
www.pioneerres.com
785 625 3858

Morland KS, 1/2 South on 145 Ave,
South/East Into

Database File: c:\warrior\data\h&c_minium # 23-1\h&c_minium_23_1hd.db
Dataset Pathname: DIL/hcstk
Presentation Format: cdl
Dataset Creation: Tue Apr 02 03:01:35 2013
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
							LSPD





Database File: c:\warrior\data\h&c_minium # 23-1\h&c_minium_23_1hd.db
 Dataset Pathname: DIL/hcstk
 Presentation Format: cndlspec
 Dataset Creation: Tue Apr 02 03:01:35 2013
 Charted by: Depth in Feet scaled 1:240

