



Pioneer Energy Services

Dual Compensated Porosity Log

15-009-26,074-00-00

API No.

Company Russell Oil, Inc.
Well Charles #1-16
Field Deines
County Barton
State Kansas

Location 330' FNL & 1100' FWL
Sec: 16 **Twp:** 16S **Rge:** 14W

Other Services
 DIL
 MEL

Permanent Datum Ground Level Elevation 1945
Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 1954
D.F.
G.I.L. 1945

Date 2/18/2015

Run Number One

Type Log CNL / CDL

Depth Driller 3490

Depth Logger 3484

Bottom Logged Interval 3463

Top Logged Interval 2850

Type Fluid In Hole Chemical

Salinity, PPM CL 9,700

Density 9.3

Level Full

Max. Rec. Temp. F 111

Operating Rig Time 3 1/2 Hours

Equipment -- Location 51 Hays

Recorded By C. Desaire

Witnessed By Kitt Noah

Borehole Record

Casing Record

Run No	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	412	8.625	24#	00	412
2	7.875	412	3490				

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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

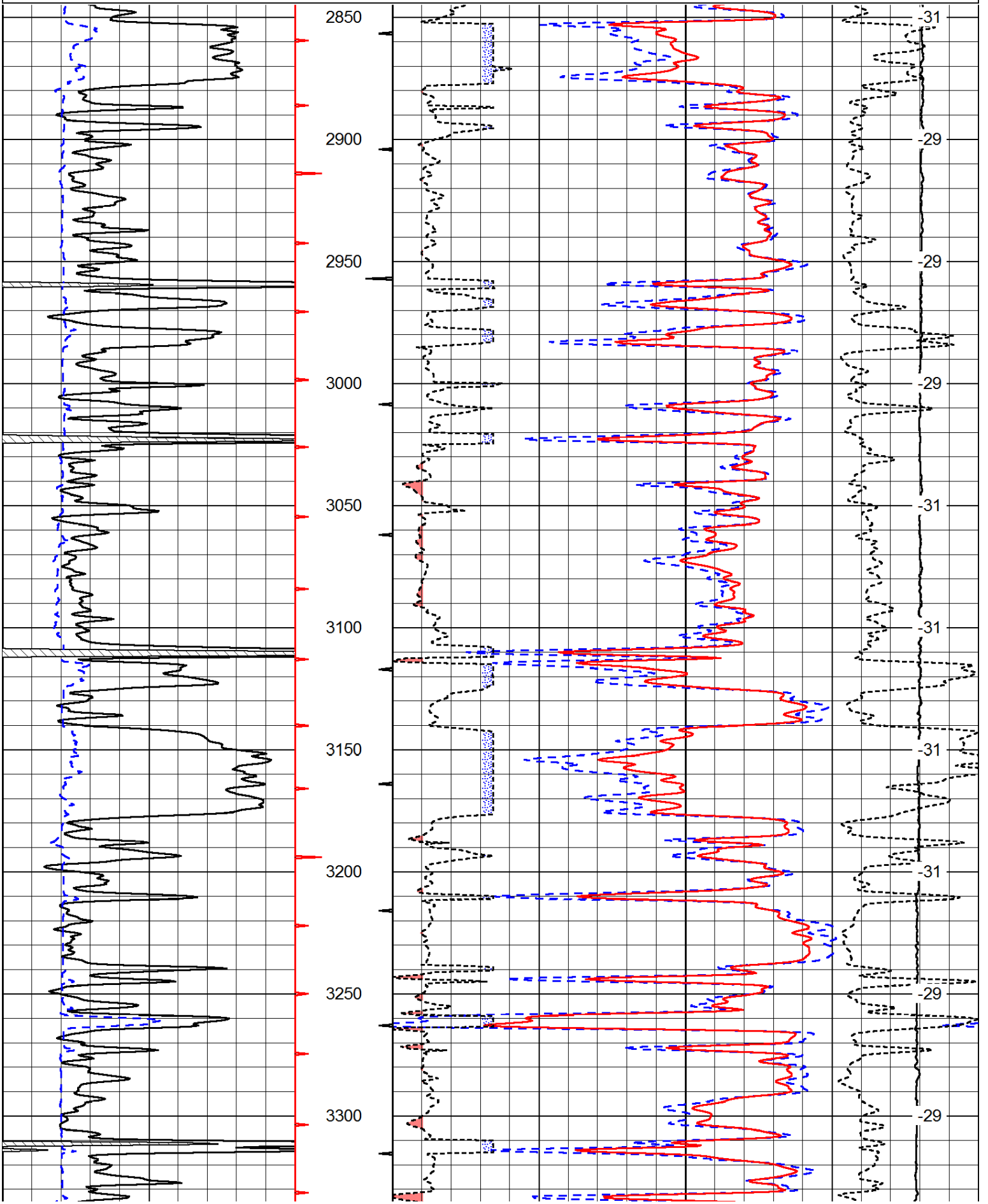
Thank you for using Pioneer Energy Services
www.pioneeres.com
 785 625 3858

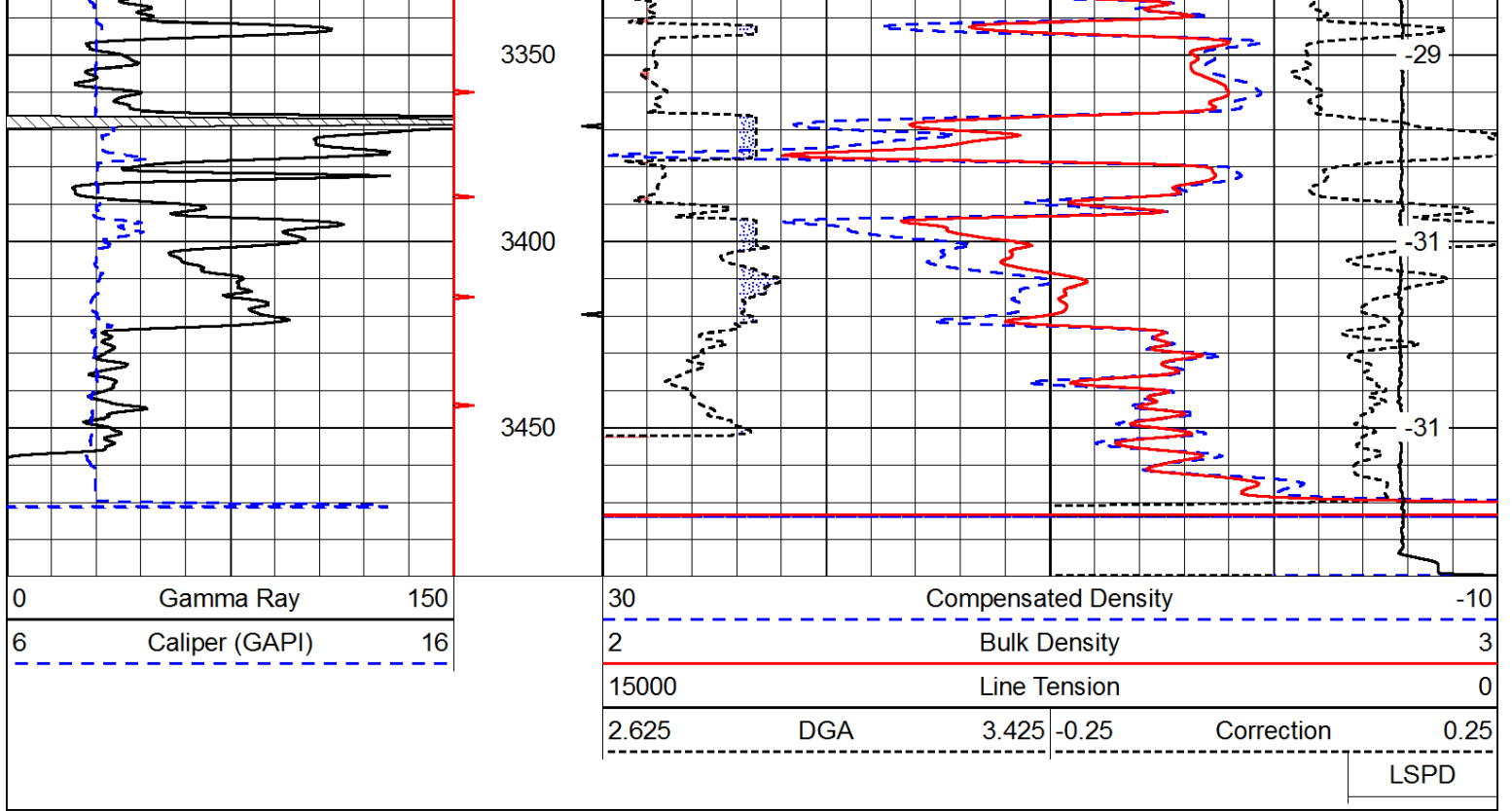
Russell KS, S to County Line,
 2 S to 210 Rd, 1 3/4 W, S Into

Database File: c:\warrior\data\russell_charles #1-16\rohd.db
 Dataset Pathname: dil/russstk
 Presentation Format: cdl
 Dataset Creation: Wed Feb 18 09:38:42 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





Database File: c:\warrior\data\russell_charles #1-16\rohd.db
 Dataset Pathname: dil/russtk
 Presentation Format: cndlspec
 Dataset Creation: Wed Feb 18 09:38:42 2015
 Charted by: Depth in Feet scaled 1:240

