



PIONEER

Pioneer Energy Services

Dual Compensated Porosity Log

API No.

15-051-26776-00-00

Company BRUNGARDT OIL AND LEASING, INC.

Well GRABBE A #1

Field SHOENCHEN WEST

County ELLIS State KANSAS

Location 430' FNL & 1850' FWL

Other Services
DIL/MEL

Sec: 21 Twp: 15S Rge: 18W

Permanent Datum GROUND LEVEL Elevation 2047

Log Measured From KELLY BUSHING 5 Ft. Above Perm. Datum

K.B. 2052
D.F.
G.L. 2047

Date 5/19/2015

Run Number ONE

Type Log CNL / CDL

Depth Driller 3699

Depth Logger 3697

Bottom Logged Interval 3668

Top Logged Interval 2900

Type Fluid In Hole CHEMICAL

Salinity, PPM CL 6000

Density 9.2

Level FULL

Max. Rec. Temp. F 113

Operating Rig Time 3 HOURS

Equipment -- Location 91 Hays

Recorded By D. SCHMIDT

Witnessed By ROGER FISHER

Borehole Record

Casing Record

Run No	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	1209	8.625	23#	00	1209
Two	7.875	1209	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

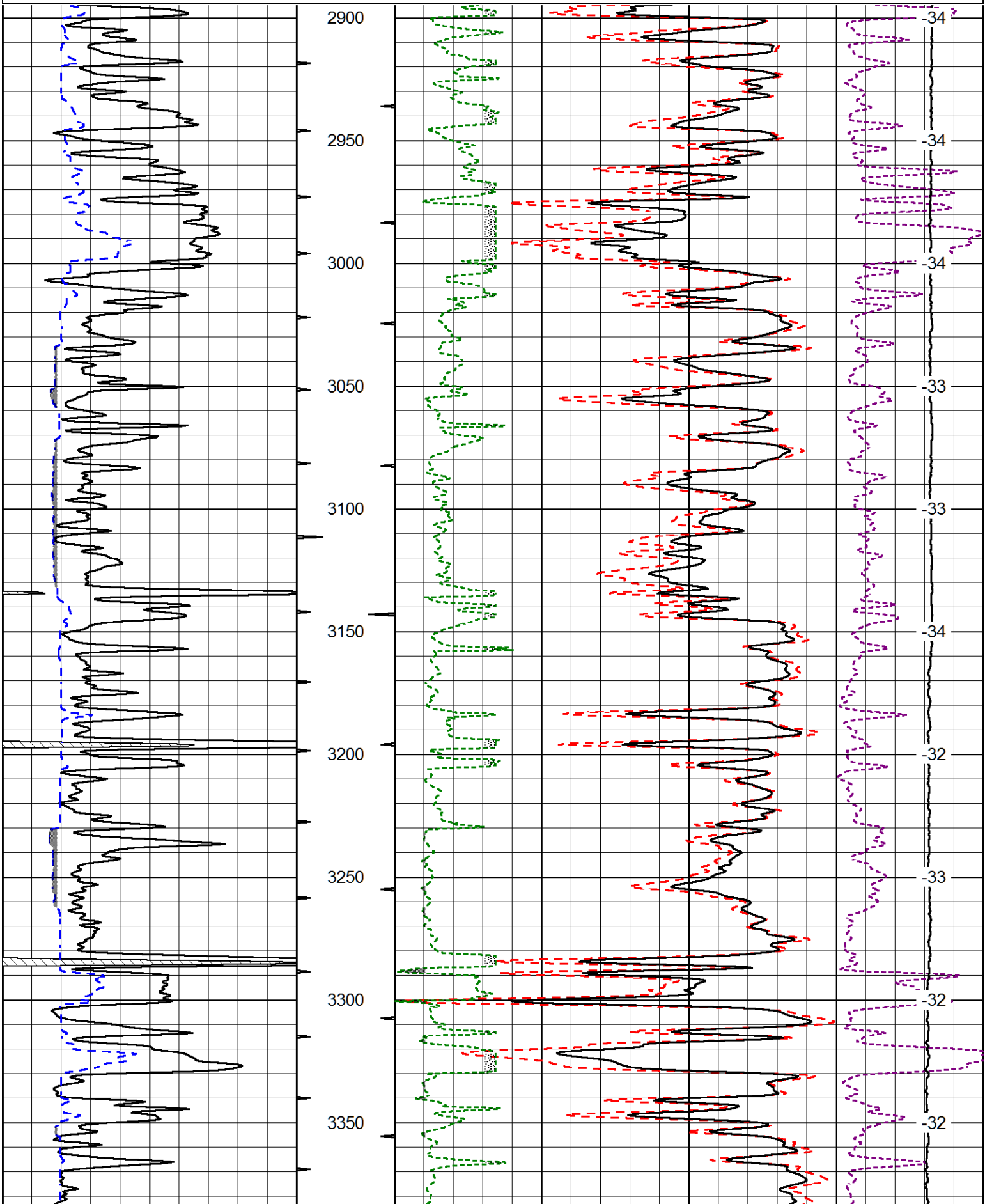
Thank you for using Pioneer Energy Services
785.625.3858

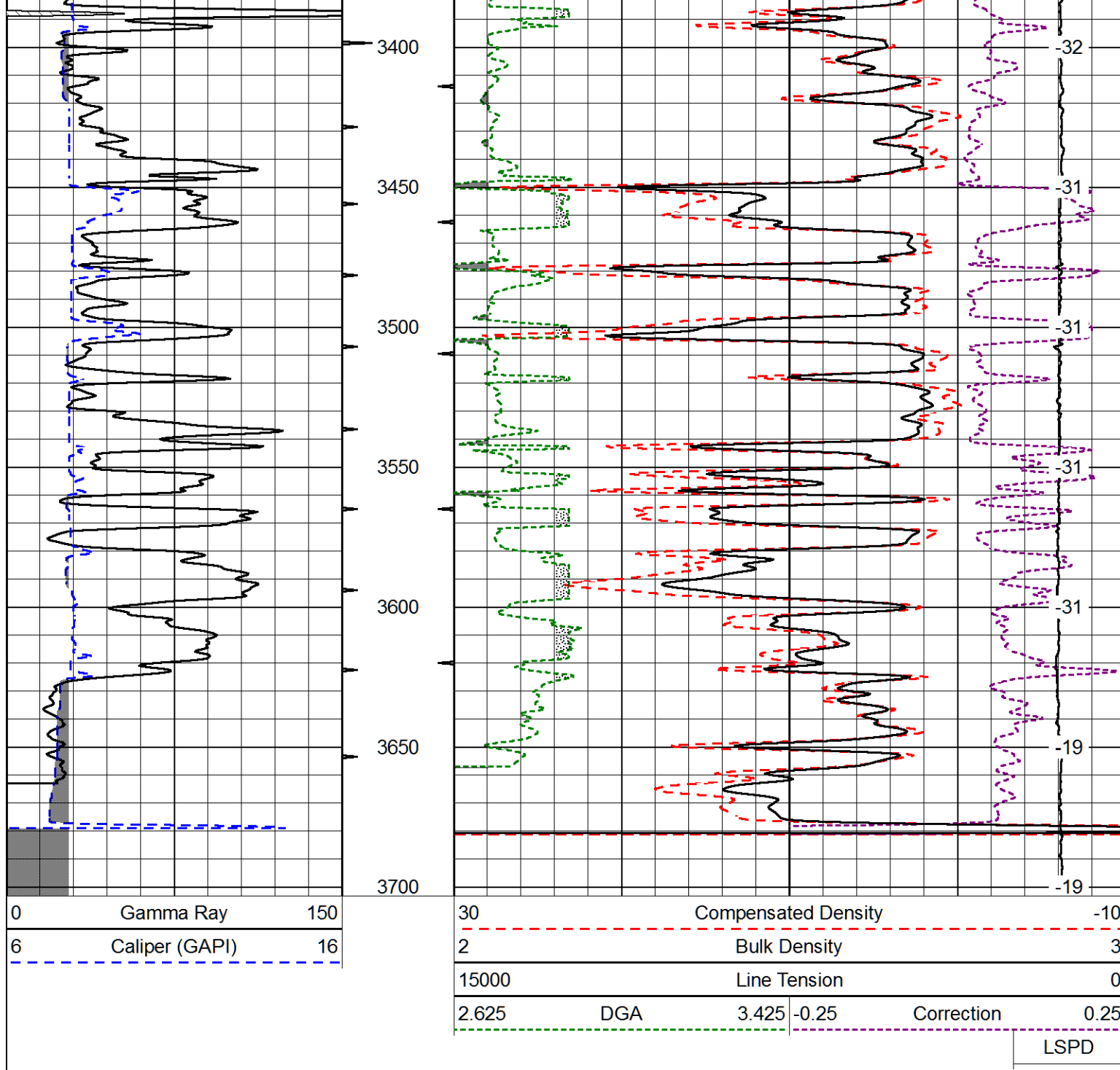
HAYS,
SOUTH ON HWY 183 TO CHETOLA GOLD RD,
3/4 WEST, SOUTH INTO

Database File brungardt_grabbe a_1hd.db
Dataset Pathname DIL/brstkml2
Presentation Format cdl
Dataset Creation Tue May 19 16:10:22 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: brungardt_grabbe a_1hd.db
 Dataset Pathname: DIL/brstkml2
 Presentation Format: cndlspec
 Dataset Creation: Tue May 19 16:10:22 2015
 Charted by: Depth in Feet scaled 1:240

