COMPENSATED DENSITY NEUTRON LOG

Company American Land And Energy LLC.
Well Brungardt #1
Field N/A
County Ellis State Kansas

Location: API # : 15 051 26588

330' FSL & 900' FEL

SEC 7 TWP 15S RGE 16W

Other Services
BCS
ML
DIL

Permanent Datum Ground Level Elevation 1910'
Log Measured From KB 6' AGL
Drilling Measured From KB

Elevation
K.B. 1916'
D.F. 1915'
G.L. 1910'

Date	8-27-13		
Run Number	One		
Depth Driller	3600'		
Depth Logger	3600'		
Bottom Logged Interval	3577'		
Top Log Interval	2700'		
Casing Driller	8 5/8"@ 1060'		
Casing Logger	1060'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	9.3/42		
pH / Fluid Loss	8.0/10.0		
Source of Sample	Pit		
Rm @ Meas. Temp	.5@72degf		
Rmf @ Meas. Temp	.38@72degf		
Rmc @ Meas. Temp	.6@72degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	.32@112degf		
Time Circulation Stopped	10:00 p.m.		
Time Logger on Bottom	11:55 p.m.		
Maximum Recorded Temperature	112degf		
Equipment Number	T045		
Location	Hays, KS.		
Recorded By	Gus Pfanenstiel		
Witnessed By	Mr. Rod Andersen		

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Comments

6 miles S of Victoria 1/2 E, N into.

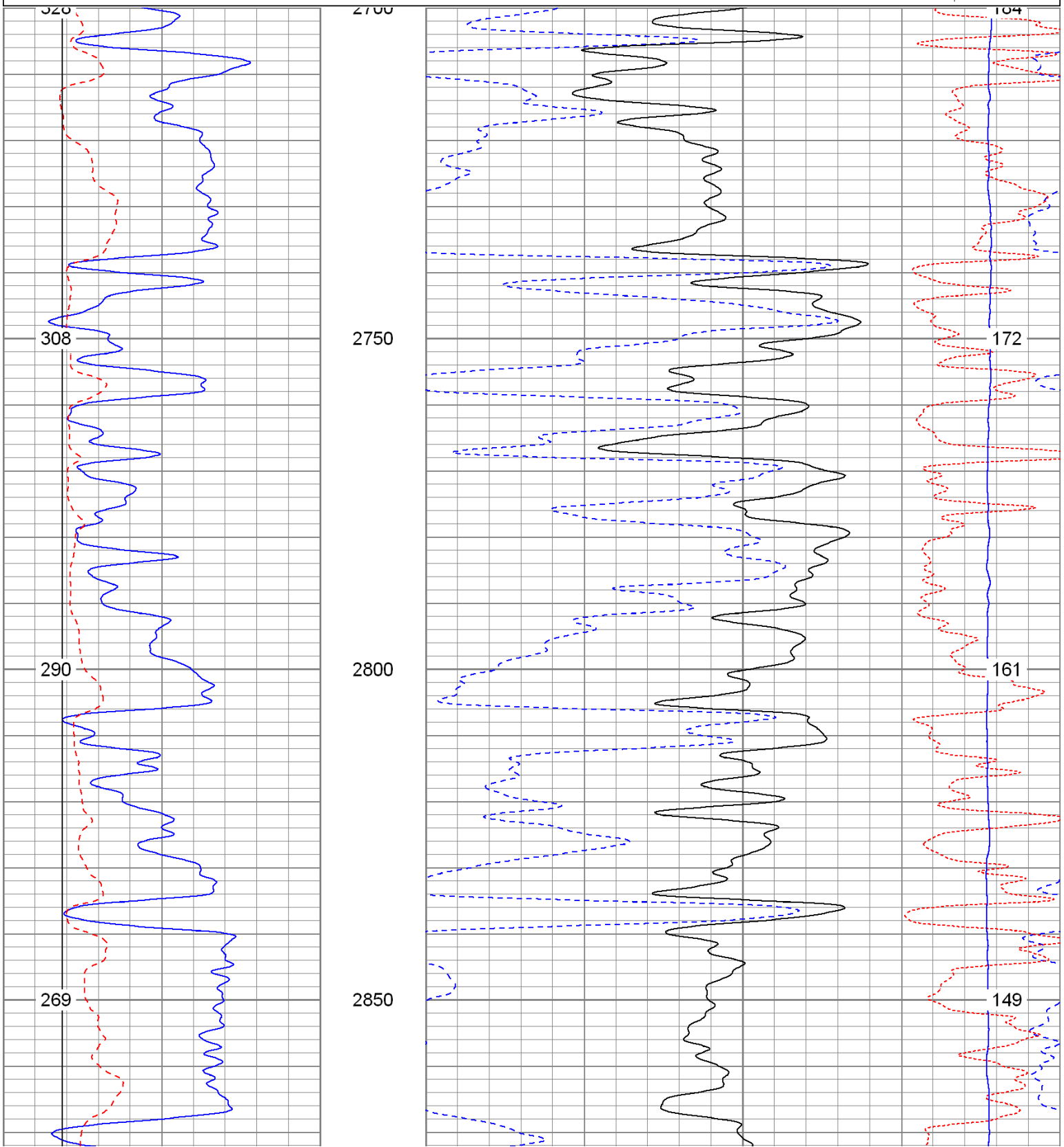
Main Pass

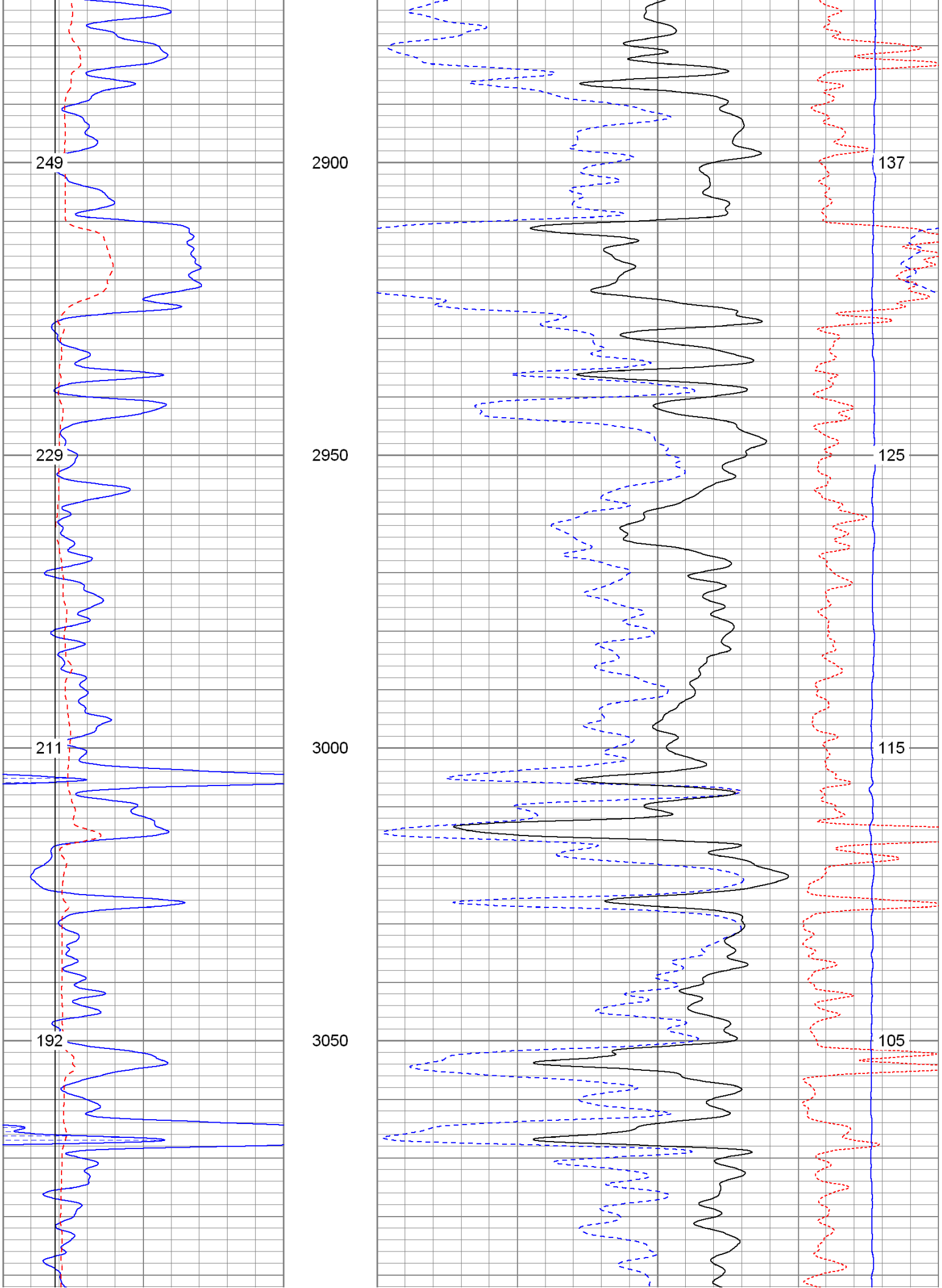
Database File:	albrungardt#1oh.db
Dataset Pathname:	pass2.1
Presentation Format:	kcdnl
Dataset Creation:	Wed Aug 28 00:55:30 2013 by Calc Open-Cased 100827
Charted by:	Depth in Feet scaled 1:240

0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
TBHV (ft3)		

30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30

-0.25	RHOC (g/cc)	0.25
8000	LTEN (lb)	0
	ABHV (ft3)	

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3050
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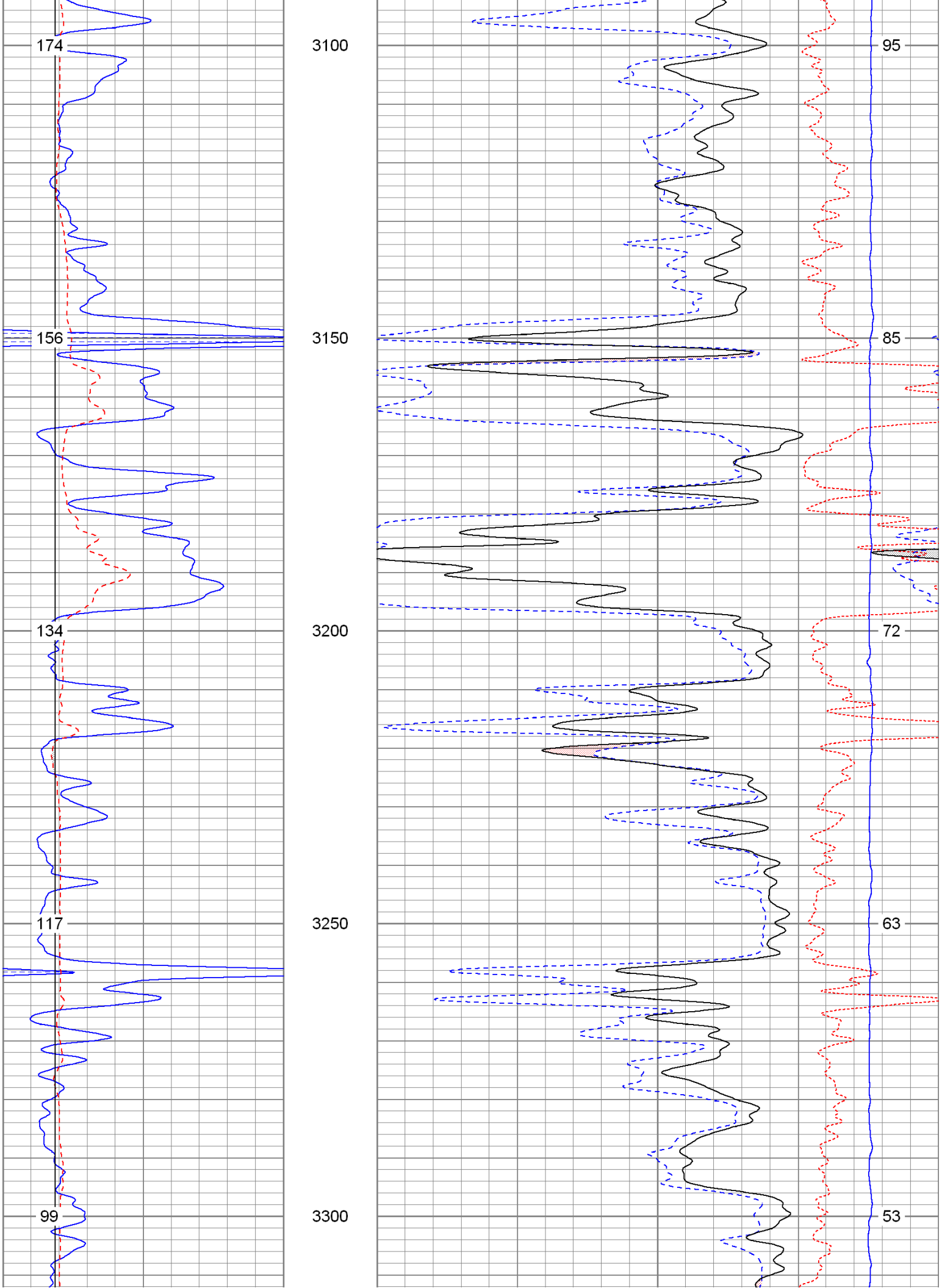
115
105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3200
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3300
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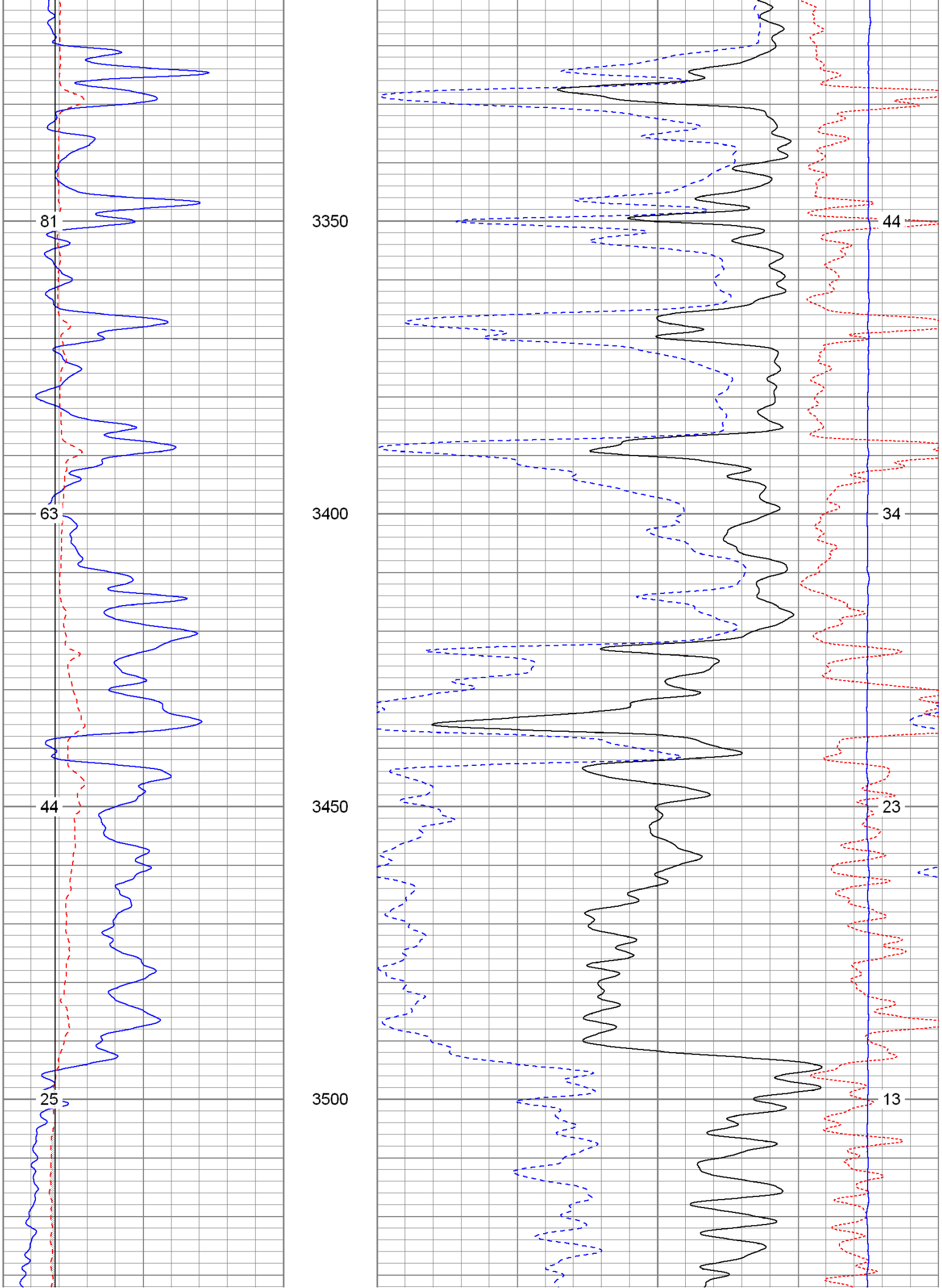
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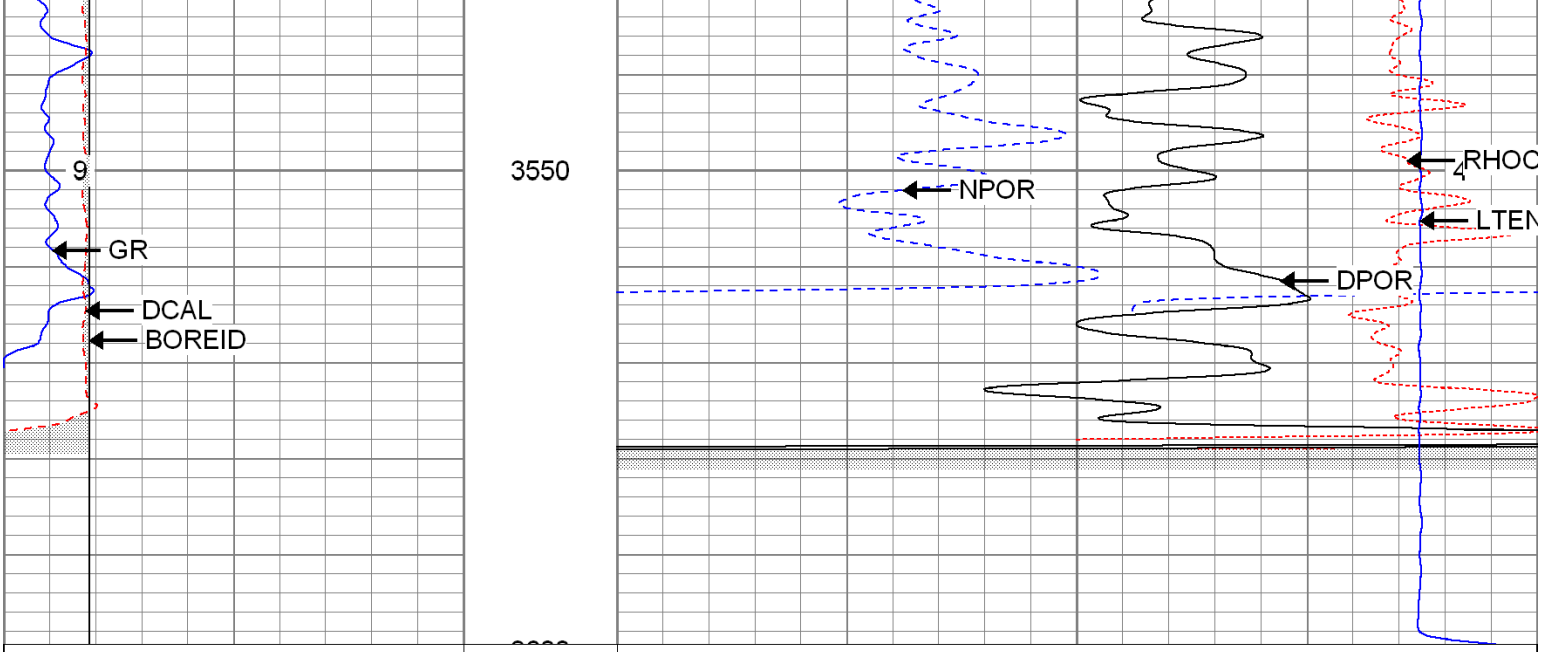

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6	DCAL (in)	16
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TBHV (ft3)		

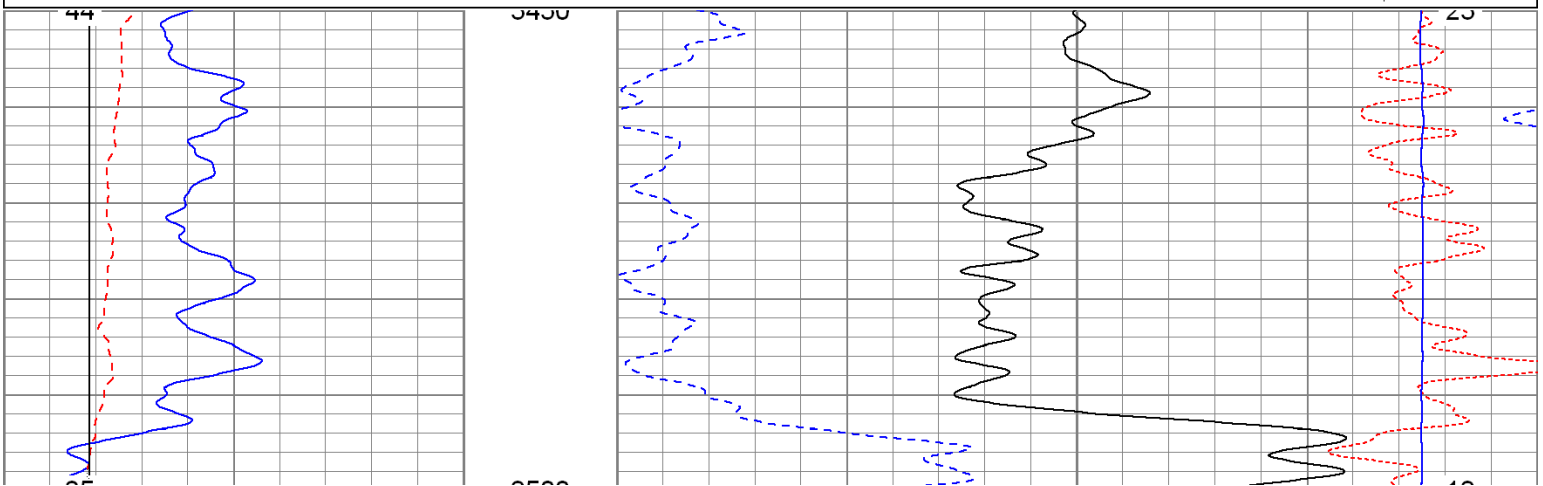
30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30
-0.25	RHOC (g/cc)	0.25
8000	LTEN (lb)	0
	ABHV (ft3)	

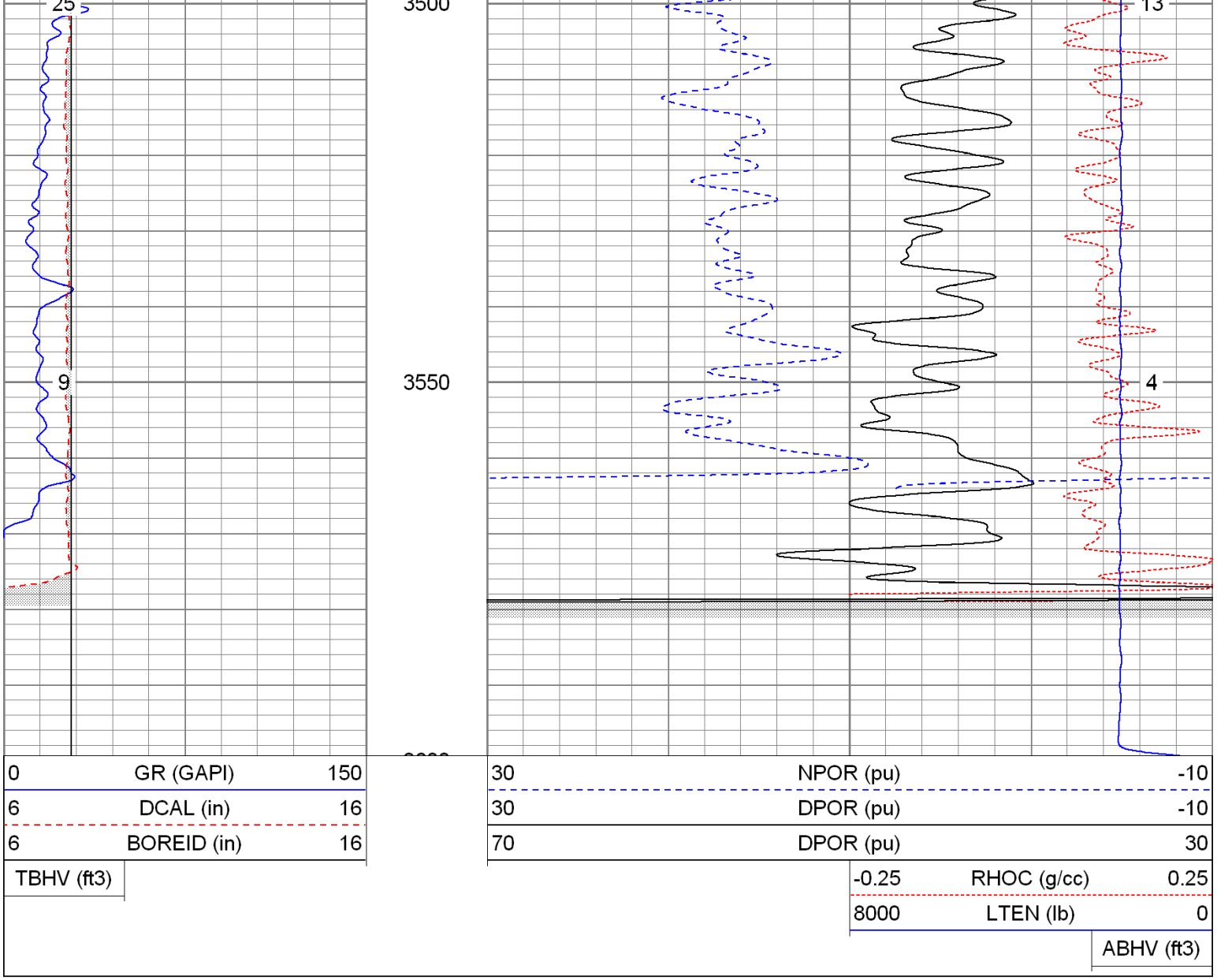
Repeat Pass

Database File:	albrungardt#1oh.db
Dataset Pathname:	pass1.1
Presentation Format:	kcdnl
Dataset Creation:	Wed Aug 28 13:00:35 2013 by Calc Open-Cased 100827
Charted by:	Depth in Feet scaled 1:240

0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
TBHV (ft3)		

30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30
-0.25	RHOC (g/cc)	0.25
8000	LTEN (lb)	0
	ABHV (ft3)	





Calibration Report

Database File: albrungardt#1oh.db
Dataset Pathname: pass1.1
Dataset Creation: Wed Aug 28 13:00:35 2013 by Calc Open-Cased 100827

Dual Induction Calibration Report

Serial-Model:	1842-ADM
Surface Cal Performed:	Tue Jan 29 07:47:45 2013
Downhole Cal Performed:	Tue Jan 29 07:48:26 2013
After Survey Verification Performed:	Tue Jan 29 07:48:26 2013

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.013	0.660	V	0.000	350.000	mmho/m	541.472	-7.152
Medium	0.001	0.762	V	0.000	400.000	mmho/m	525.242	-0.298
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.013	0.660	V	0.000	350.000	mmho/m	541.063	-7.295
Medium	0.001	0.763	V	0.000	550.000	mmho/m	721.525	-0.493

Downhole Calibration

Internal:	Readings Zero	Readings Cal		References Zero	References Cal		Results m	Results b
Deep	-0.274	349.822	mmho/m	0.149	350.413	mmho/m	1.000	0.423
Medium	-0.202	399.974	mmho/m	0.061	400.439	mmho/m	1.000	0.263
Shallow	2.544	0.014	V	500.000	2.000	Ohm-m	196.863	-2.840

After Survey Verification

Internal:	Readings Zero	Readings Cal		Targets Zero	Targets Cal		Results m'	Results b'
Deep	0.000	0.000	mmho/m	-0.274	349.822	mmho/m	1.000	0.423
Medium	0.000	0.000	mmho/m	-0.202	399.974	mmho/m	1.000	0.263
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Compensated Density Calibration Report

Serial-Model: 2388DHT-DHT
Source / Verifier: /
Master Calibration Performed: Mon Jan 07 17:00:17 2013
Before Survey Verification Performed:
After Survey Verification Performed:

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	717.11	305.57	cps
Aluminum	2.620	g/cc	140.63	221.93	cps

Spine Angle = 78.89 Density/Spine Ratio = 0.524

	Size		Reading
Small Ring	8.05	in	5771.32
Large Ring	14.00	in	10165.20

Before Survey Verification

Target		Measured	
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc

After Survey Verification

Target		Measured	
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc

Gamma Ray Calibration Report

Serial Number: 2001
Tool Model: OH
Performed: Mon Jan 07 17:00:47 2013

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

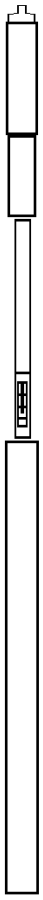
Sensitivity: 0.2200 GAPI/cps

Sensitivity:	0.2300	GAPI/cps

Neutron Calibration Report

Serial Number:	5108	
Tool Model:	PROBE	
Performed:	Mon Jan 07 17:00:44 2013	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			None	0.75	1.50	5.00
NEU	36.50		NEU-PROBE (5108) Probe	4.92	3.63	85.00
GR	30.56		GR-OH (2001) 2001	3.56	3.25	40.00
			CDL-DHT (2388DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
LSD	22.02					
DCAL	21.73					
SSD	21.48					
HEADVOLT	19.71					
CILD	10.60		DIL-ADM (1842) Dual Induction	19.71	4.00	300.00
SP	10.60					
CILM	6.89					
RLL3	1.70					



Dataset:	albrungardt#1oh.db: field/well/run1/pass1.1
Total Length:	38.63 ft
Total Weight:	631.00 lb
O.D.	4.00 in