



**COMPENSATED DENSITY  
NEUTRON  
LOG**

Company American Oil LLC.		Company American Oil LLC.	
Well	William Hinman #7	Well	William Hinman #7
Field	Morel	Field	Morel
County	Graham	County	Graham
State	Kansas	State	Kansas
Location:		API # : 15 163 24326	Other Services
2310' FSL & 2150' FEL			DIL
Permanent Datum	SEC 23 TWP 9S RGE 21W	Elevation	
Log Measured From	Ground Level	Elevation	2279'
Drilling Measured From	KB	Elevation	K.B. 2287'
	KB 8' AGL	Elevation	D.F. 2286'
		Elevation	G.L. 2279'

Date	4-15-17
Run Number	One
Depth Driller	3869'
Depth Logger	3867'
Bottom Logged Interval	3845'
Top Log Interval	3100'
Casing Driller	10 3/4" @ 220'
Casing Logger	220'
Bit Size	9 3/4"
Type Fluid in Hole	Chemical
Density / Viscosity	9.4/58
PH / Fluid Loss	10.3/8.0
Source of Sample	Pit
Rm @ Meas. Temp	2.1 @ 70degf
Rmf @ Meas. Temp	1.68 @ 70degf
Rmc @ Meas. Temp	2.68 @ 70degf
Source of Rmf / Rmc	Calculated
Rm @ BHT	1.39 @ 106degf
Time Circulation Stopped	10:00 a.m.
Time Logger on Bottom	1:30 p.m.
Maximum Recorded Temperature	112degf
Equipment Number	T127
Location	Hays, KS.
Recorded By	C. Patterson
Witnessed By	Mr. Adam Folk

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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**



# Main Pass

Database File aowilliamhinman7oh.db  
 Dataset Pathname pass3.2  
 Presentation Format digital\_kcdnl  
 Dataset Creation Sat Apr 15 14:58:57 2017  
 Charted by Depth in Feet scaled 1:240

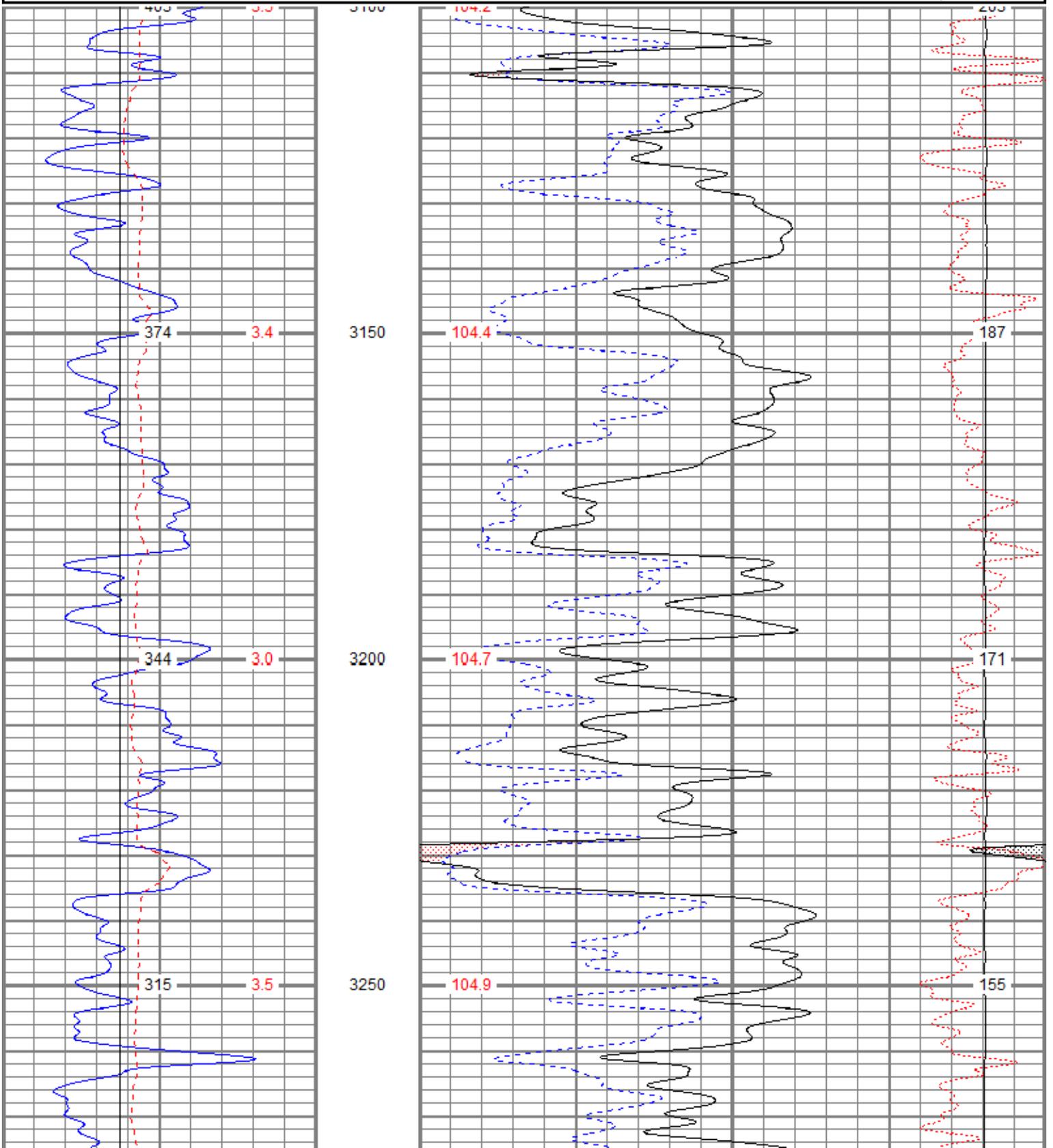
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16

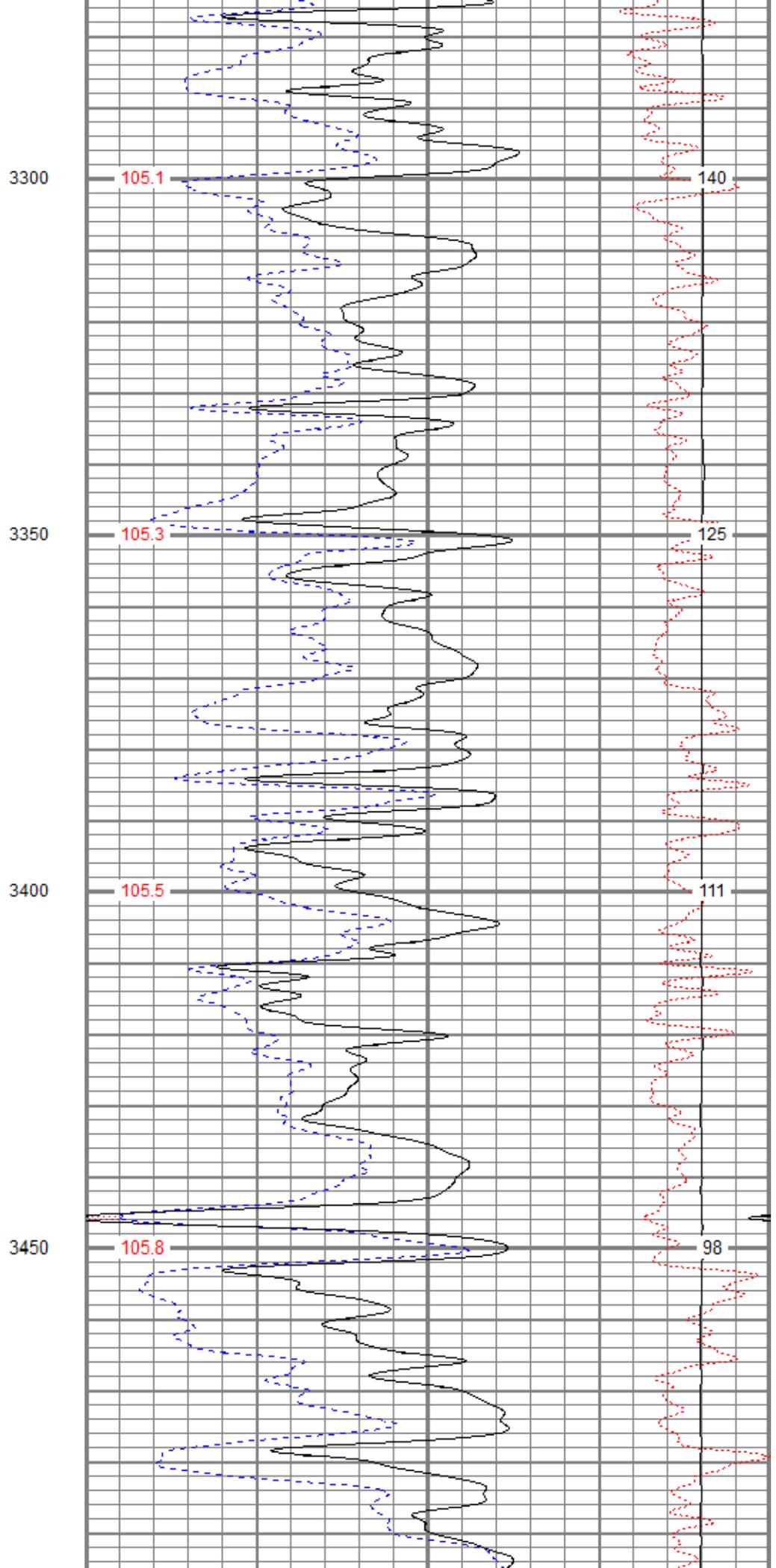
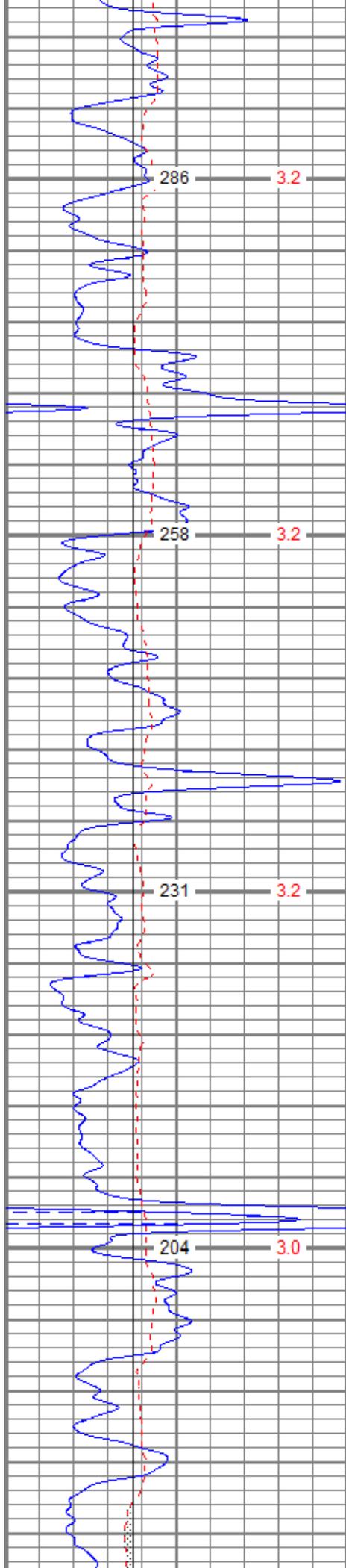
TBHV (ft3)	DEVI (deg)
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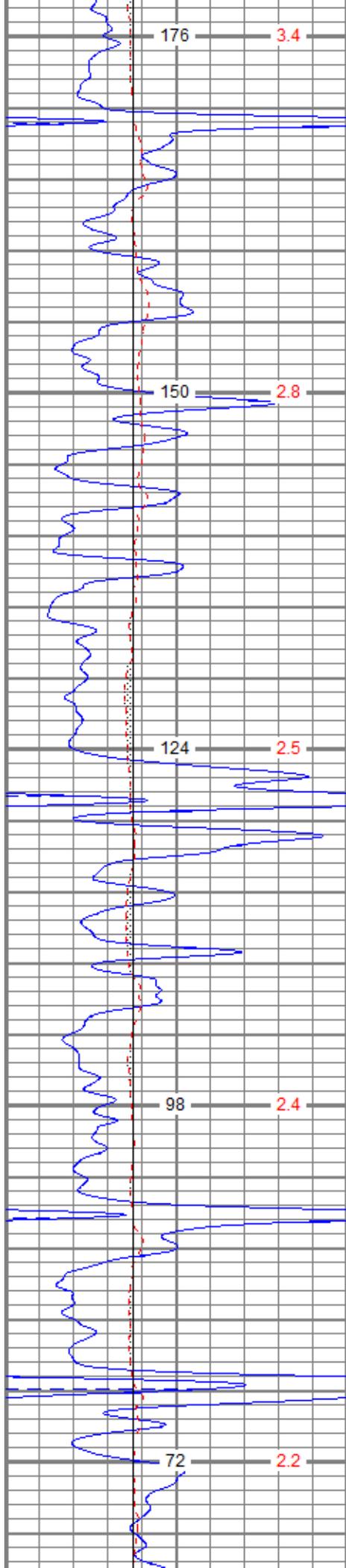
30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30

TEMP (degF)	-0.25	RHOC (g/cc)	0.25
	8000	LTEN (lb)	0

ABHV (ft3)







3500

106.1

84

3550

106.4

71

3600

106.6

58

3650

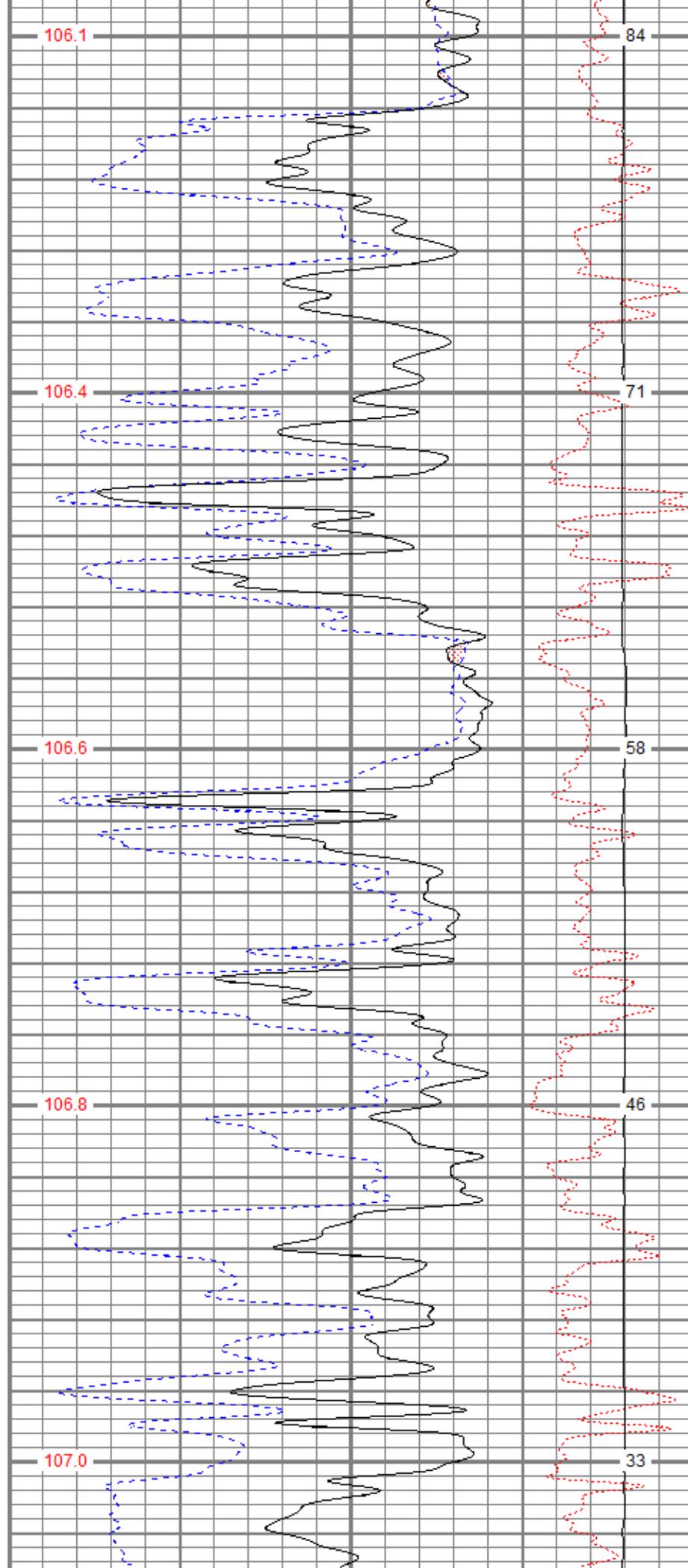
106.8

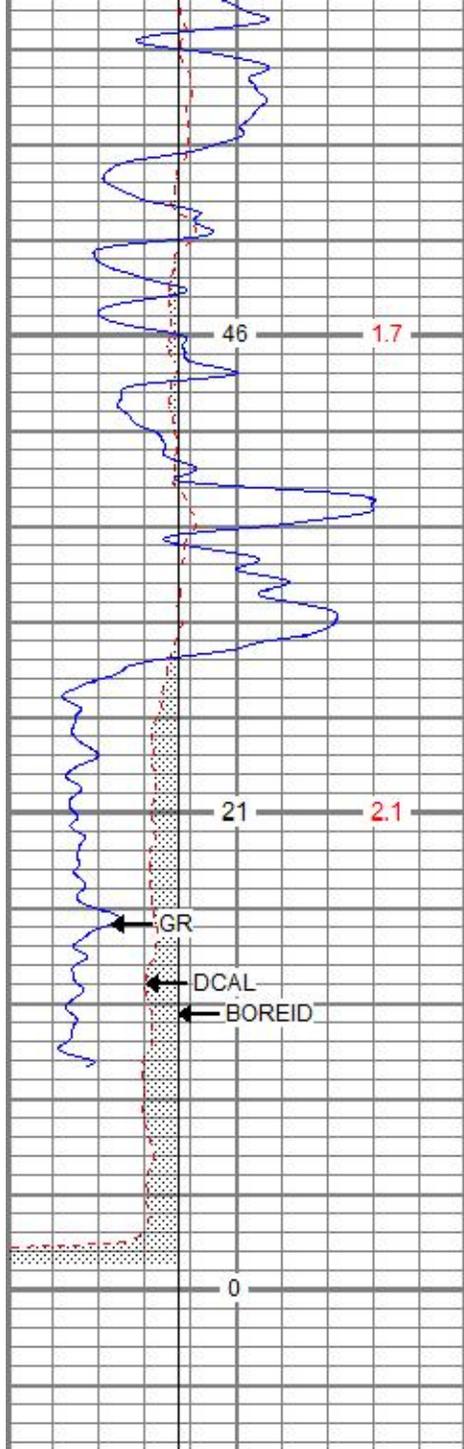
46

3700

107.0

33





3750

106.9

20

3800

106.7

8

GR  
DCAL  
BOREID

NPOR

DPOR

RHC

LTEN

3850

0

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

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

TBHV (ft3)	DEVI (deg)
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TEMP (degF)	-0.25	RHOC (g/cc)	0.25
	8000	LTEN (lb)	0

ABHV (ft3)



# Repeat Section

Database File aowilliamhinman7oh.db  
 Dataset Pathname pass2.2  
 Presentation Format digital\_kcdnl  
 Dataset Creation Sat Apr 15 15:29:23 2017  
 Charted by Depth in Feet scaled 1:240



0	GR (GAPI)	150	30	NPOR (pu)	-10
8	DCAL (in)	18	30	DPOR (pu)	-10
8	BOREID (in)	18	70	DPOR (pu)	30
	TBHV (ft3)	DEVI (deg)	TEMP (degF)	-0.25	RHOC (g/cc) 0.25
				8000	LTEN (lb) 0
					ABHV (ft3)

### Calibration Report

Database File aowilliamhinman7oh.db  
Dataset Pathname pass3.2  
Dataset Creation Sat Apr 15 14:58:57 2017

### Dual Induction Calibration Report

Serial-Model: 1989-ADM  
Surface Cal Performed: Fri Dec 09 04:19:59 2016  
Downhole Cal Performed: Fri Dec 09 04:20:05 2016  
After Survey Verification Performed: Fri Dec 09 04:20:08 2016

#### Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.002	0.656	V	0.000	350.000	mmho/m	535.560	-1.118
Medium	0.003	0.745	V	0.000	400.000	mmho/m	538.828	-1.427
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.656	V	0.000	350.000	mmho/m	535.220	-1.003
Medium	0.003	0.745	V	0.000	550.000	mmho/m	741.357	-2.036

#### Downhole Calibration

Internal:	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Deep	-0.036	349.993	mmho/m	-0.114	350.108	mmho/m	1.001	-0.078
Medium	0.039	400.181	mmho/m	0.053	399.799	mmho/m	0.999	0.013
Shallow	2.503	0.015	V	500.000	2.000	Ohm-m	180.177	-2.046

#### After Survey Verification

Internal:	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.036	349.993	mmho/m	1.001	-0.078
Medium	0.000	0.000	mmho/m	0.039	400.181	mmho/m	0.999	0.013
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

### Neutron Calibration Report

Serial Number: Admyr  
Tool Model: G  
Performed: Thu Mar 09 09:56:12 2017

Calibrator Value: 1 NAPI

Calibrator Reading: 1 cps

Sensitivity: 1 NAPI/cps

**Gamma Ray Calibration Report**

Serial Number: 1  
 Tool Model: A  
 Performed: Thu Mar 09 09:56:15 2017

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps  
 Calibrator Reading: 1.0 cps

Sensitivity: 0.7000 GAPI/cps

**Temperature Calibration Report**

Serial Number: 1  
 Tool Model: A  
 Performed: Sat Apr 09 21:14:20 2016

	Reference		Reading	
Low Reference:	0.00	degF	0.00	degF
High Reference:	32.00	degF	32.00	degF
Gain:	1.00			
Offset:	0.00			
Delta Spacing	1			

**Inclinometer Calibration Report**

Performed: Thu Mar 09 10:44:26 2017

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	205.00	1843.00	-1.00	1.00	gee
Y Accelerometer	205.00	1843.00	-1.00	1.00	gee
Z Accelerometer					gee

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
PSTAT	39.60		CHD-STD	0.50	1.69	1.00
GR	38.32		ADT1PULSE-A (1) Pulsed Interface Tool #1	0.83	3.50	10.00
TEMP	35.35		ADT1ADC-A (1) Analog Interface #1	0.83	3.50	10.00
ASTAT	35.06		ADT1SENSORS-A (1)	4.54	3.50	10.00
GRD	34.81		NEU-G (Admyr) Gearhart Epithermal	5.65	3.50	85.00
ACCY	34.65					
ACCX	34.65					
SSTAT	34.65					
NEU	33.46					
LStat	22.54					
LS8	21.88					
LS7	21.88					
LS6	21.88		ADT1LITH-A (1) Admyr Litho Density Tool	9.29	3.50	240.00
LS5	21.88					
LS4	21.88					
LS3	21.88					
LS2	21.88					
LS1	21.88					
LSV	21.88					

LSD	21.86		DIL-ADM (1989) Dual Induction	19.71	4.00	300.00
SSV	21.67					
SS8	21.67					
SS7	21.67					
SS6	21.67					
SS5	21.67					
SS4	21.67					
SS3	21.67					
SS2	21.67					
SS1	21.67					
DCAL	21.61					
SSD	21.27					
SP	10.60					
CILD	10.60					
CILM	6.89					
RLL3	1.70	Total length:	39.69 ft			
TR_Mon	0.00	Total weight:	656.00 lb			
		O.D.:	4.00 in			