



**COMPENSATED DENSITY
NEUTRON
LOG**

Company	John O. Farmer, Inc.	Company	John O. Farmer, Inc.
Well	Reif #1	Well	Reif #1
Field	Trapp	Field	Trapp
County	Barton	County	Barton
State	KS	State	KS
Location:	900' FSL & 1950' FWL		API #: 15 009 26270
Permanent Datum	SEC 13 TWP 16S RGE 14W	Ground Level	Elevation 1930'
Log Measured From		KB 8' AGL	
Drilling Measured From		KB	Elevation K.B: 1938' D.F: 1937' G.L: 1930'
Date	09/19/2019	Other Services	ML DIL

Run Number	One
Depth Driller	3438'
Depth Logger	3438'
Bottom Logged Interval	3416'
Top Log Interval	2800'
Casing Driller	8 5/8" @ 472'
Casing Logger	472'
Bit Size	7 7/8"
Type Fluid in Hole	Chemical Mud
Density / Viscosity	9.1/53
pH / Fluid Loss	10.0/9.6
Source of Sample	Pit
Rm @ Meas. Temp	0.8@80degf
Rmt @ Meas. Temp	0.64@80degf
Rmc @ Meas. Temp	1.02@80degf
Source of Rmf / Rmc	Calculated
Rm @ BHT	0.63@101degf
Time Circulation Stopped	3:00 a.m
Time Logger on Bottom	5:10 a.m
Maximum Recorded Temperature	101degf
Equipment Number	T-605
Location	Hays, KS.
Recorded By	C.Patterson
Witnessed By	Mr. Austin Klaus

<<< Fold Here >>>

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

Russell, KS South 15 mi. to 200 Rd., Then East 1.5 mi. on 200 Rd.,
North into Location

Thank you for using Gemini Wireline
785-625-1182



MAIN PASS

Database File jofreif#1oh.db
 Dataset Pathname pass2.1
 Presentation Format digital_kcdnl
 Dataset Creation Thu Sep 19 06:22:05 2019
 Charted by Depth in Feet scaled 1:240

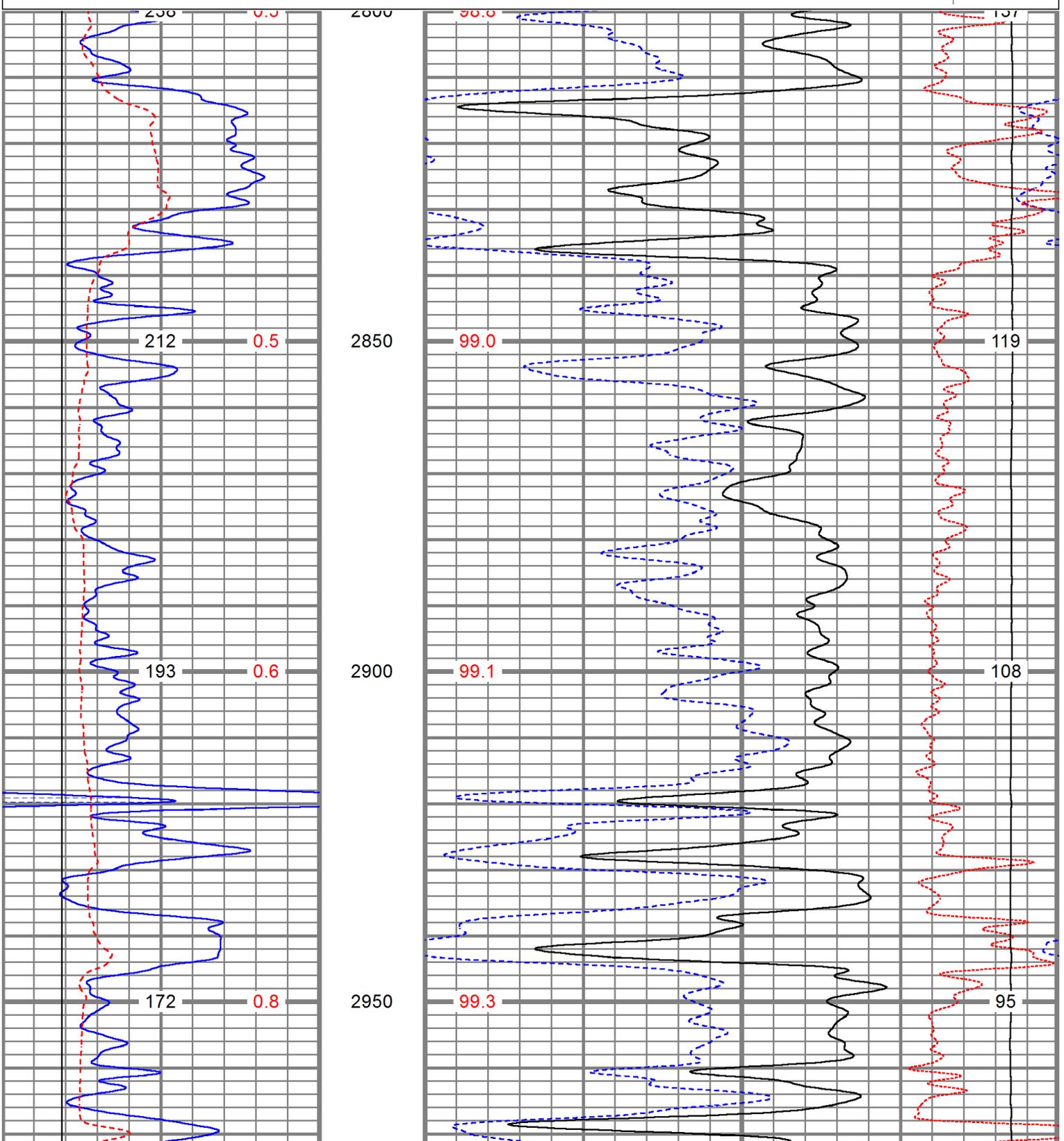
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16

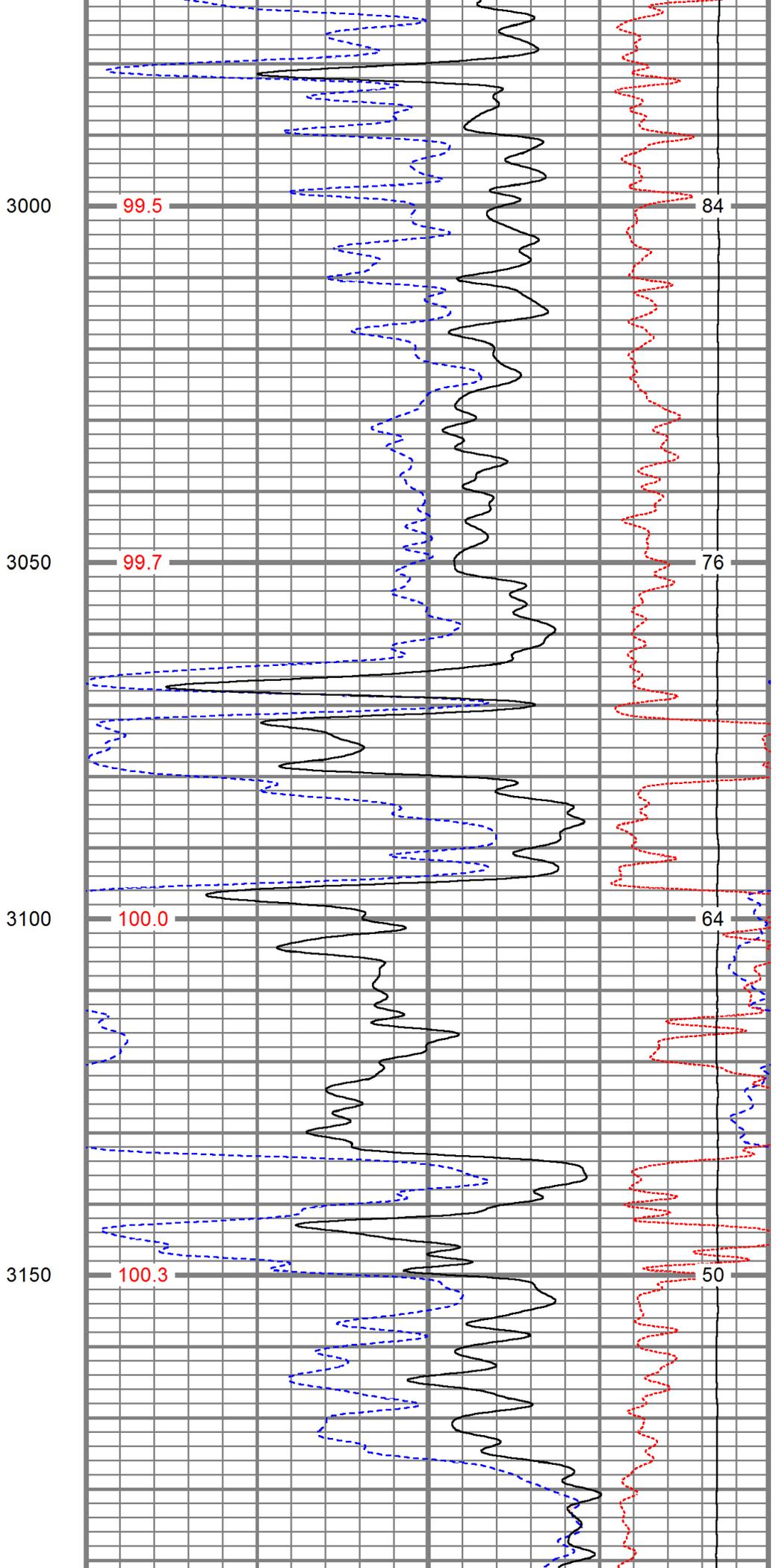
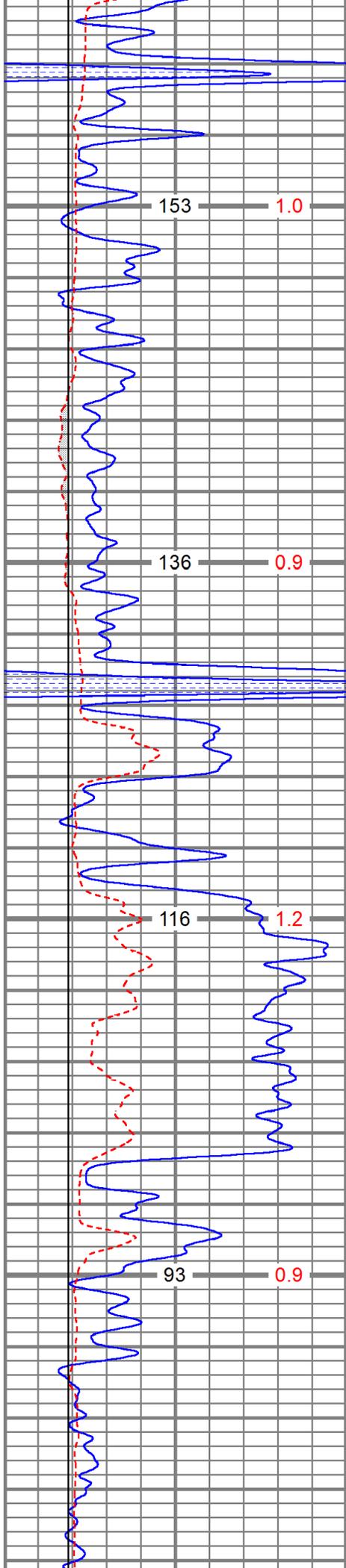
30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30

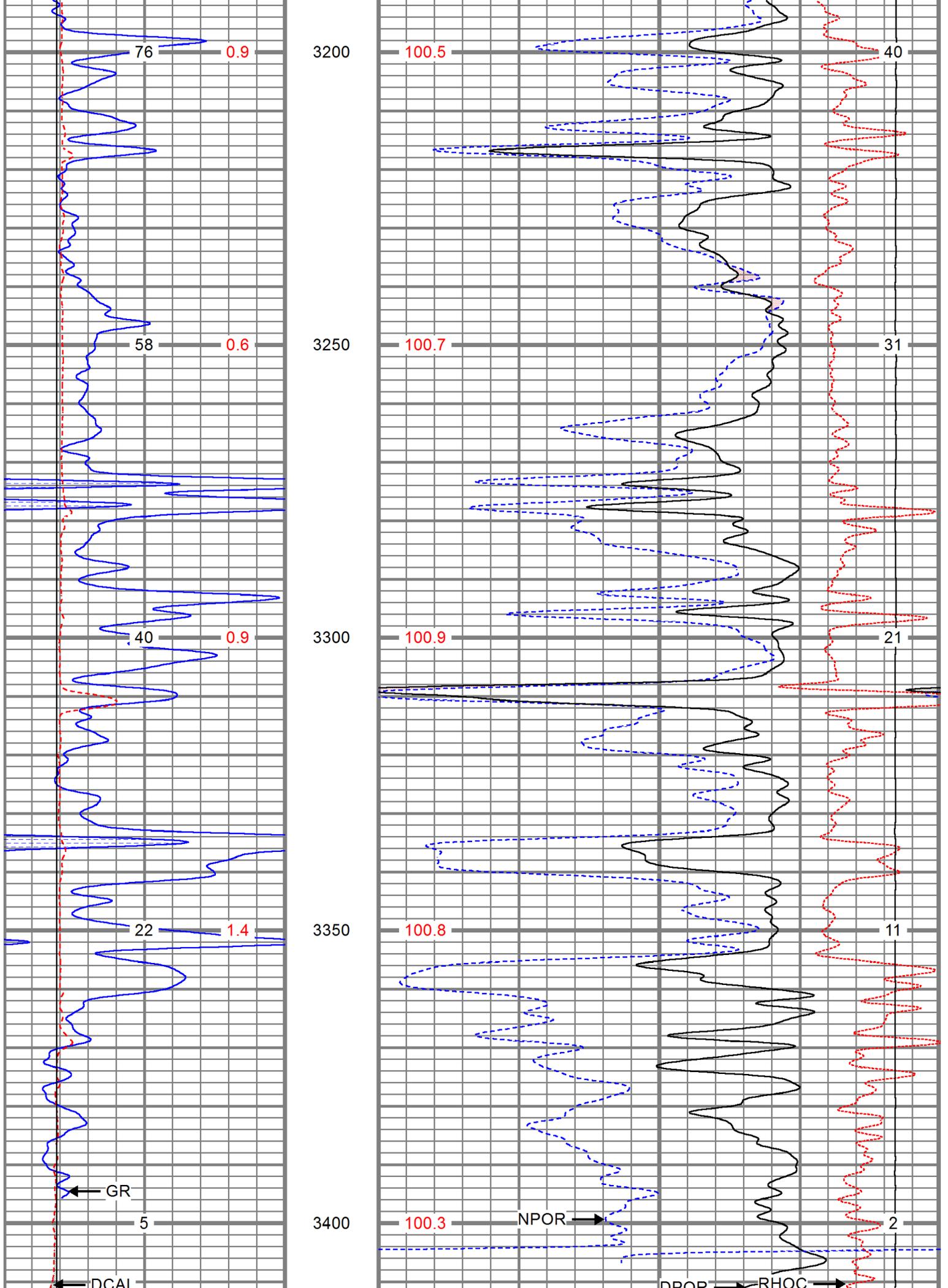
TBHV (ft3)	DEVI (deg)
------------	------------

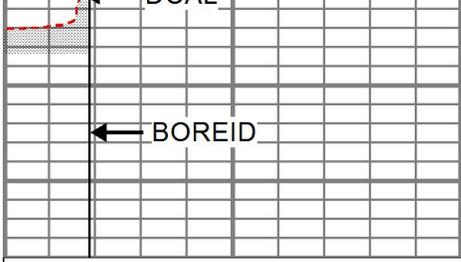
TEMP (degF)	-0.25	RHOC (g/cc)	0.25
	8000	LTEN (lb)	0

ABHV (ft3)









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

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)

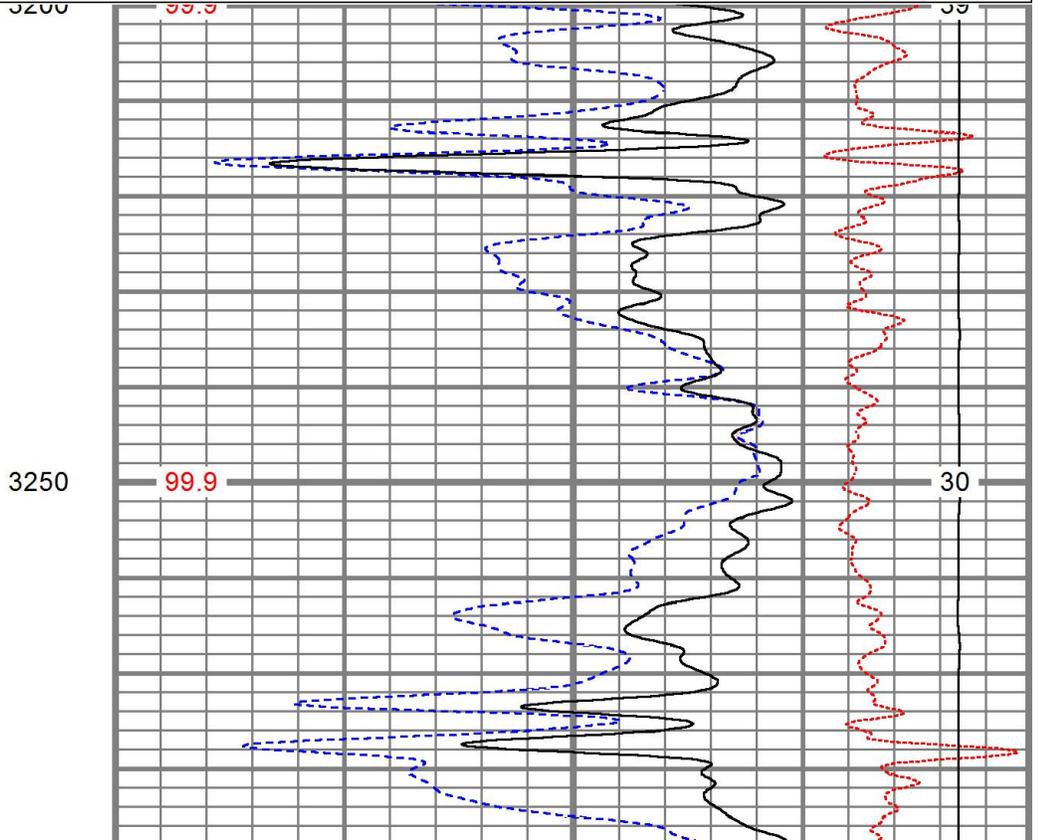
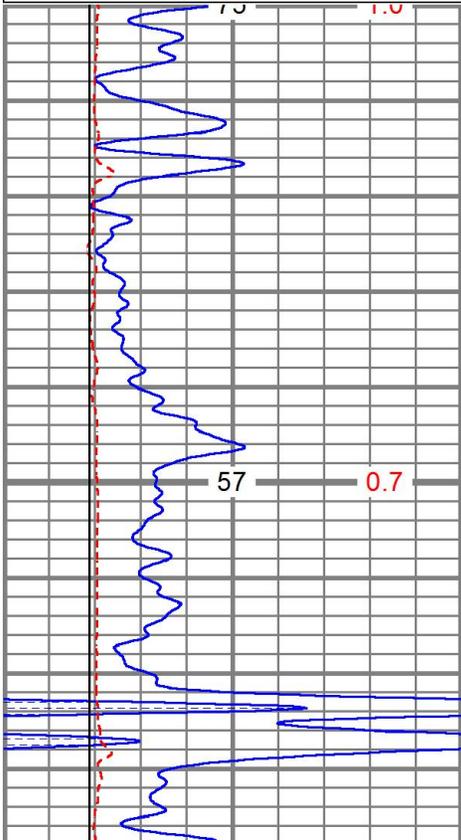


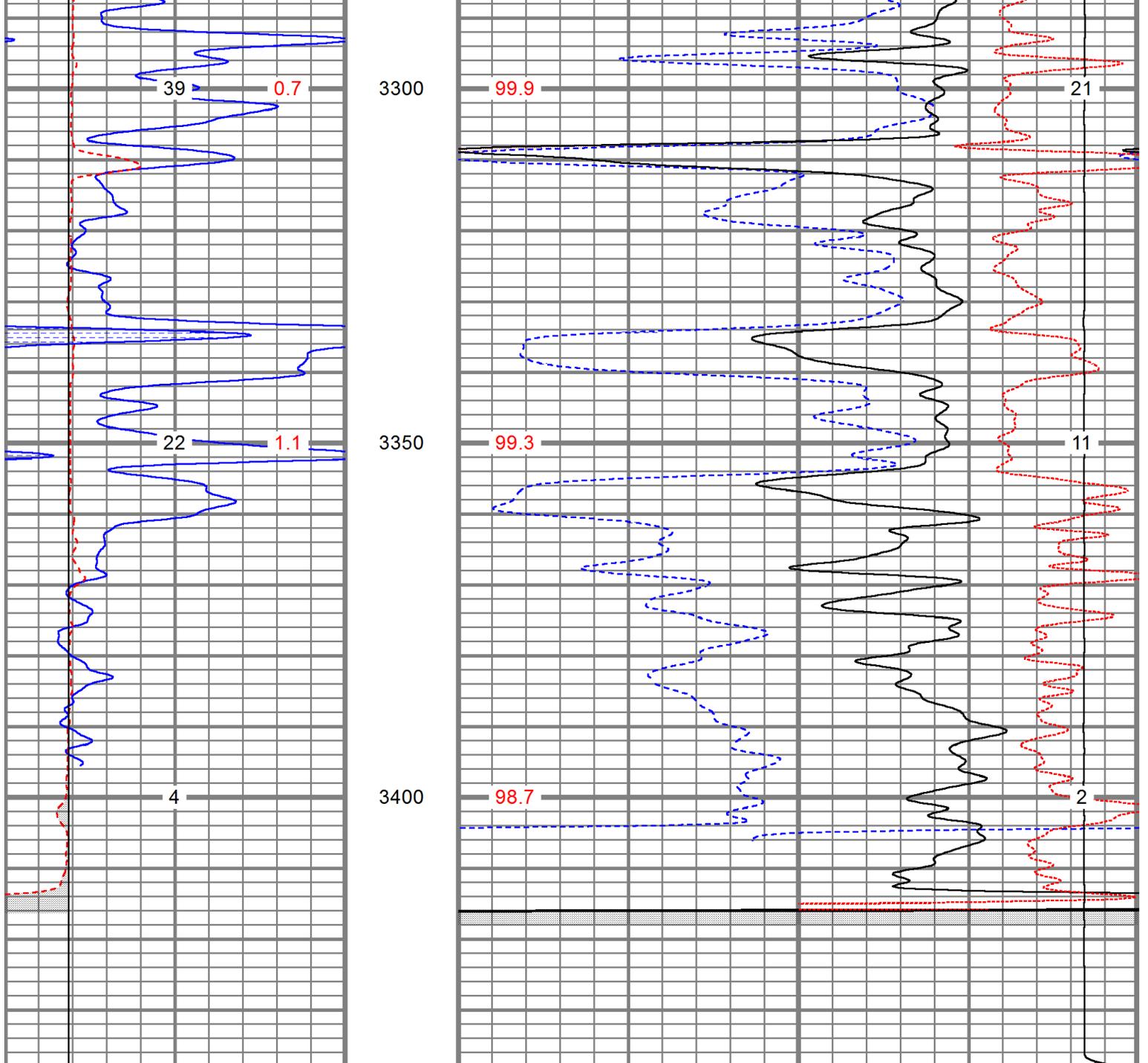
REPEAT SECTION

Database File jofreif#1oh.db
 Dataset Pathname pass1.1
 Presentation Format digital_kcdnl
 Dataset Creation Thu Sep 19 05:38:09 2019
 Charted by Depth in Feet scaled 1:240

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

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)





0	GR (GAPI)	150	30	NPOR (pu)	-10
6	DCAL (in)	16	30	DPOR (pu)	-10
6	BOREID (in)	16	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 jofreiff#1oh.db
 Dataset Pathname pass2.1
 Dataset Creation Thu Sep 19 06:22:05 2019

Dual Induction Calibration Report

Serial-Model: 5375-G
 Surface Cal Performed: Fri Apr 19 12:45:28 2019
 Downhole Cal Performed: Fri Apr 19 12:45:28 2019

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.002	0.642	V	0.000	350.000	mmho/m	546.631	-1.028
Medium	0.006	0.727	V	0.000	400.000	mmho/m	555.208	-3.897
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.642	V	0.000	350.000	mmho/m	546.502	-0.822
Medium	0.006	0.727	V	0.000	550.000	mmho/m	763.570	-4.829

Downhole Calibration

Readings				References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.000	0.000	mmho/m	-0.206	349.877	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	0.014	399.930	mmho/m	1.000	0.000
Shallow	2.429	0.011	V	500.000	2.000	Ohm-m	200.929	0.282

After Survey Verification

Readings				Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	1.000	0.000
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Neutron Calibration Report

Serial Number: AD5139
 Tool Model: ADMY5139
 Performed: (Not Performed)

Calibrator Value: 1 NAPI
 Calibrator Reading: 1 cps
 Sensitivity: 1 NAPI/cps

Temperature Calibration Report

Serial Number: WithMC
 Tool Model: WMC
 Performed: Fri Apr 19 12:15:04 2019

	Reference	Reading
Low Reference:	0.00 degF	0.00 degF
High Reference:	1.00 degF	1.00 degF

Gain: 1.00
 Offset: 0.00
 Delta Spacing: 1

Inclinometer Calibration Report

Performed: Fri Apr 19 12:14:53 2019

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

Gamma Ray Calibration Report

Serial Number:	WithMC	
Tool Model:	WMC	
Performed:	Fri Apr 19 12:14:18 2019	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.07		CHD-STD	0.50	1.69	1.00
ACCY	38.91		ADT-WMC (WithMC) Admyr Telemetry With Mudcell	4.58	3.50	120.00
ACCX	38.91					
SSTAT	38.49					
PSTAT	37.66					
ASTAT	37.66					
GRD	36.82		NEU-ADMY5139 (AD5139) Admyer NEU DIGITAL	5.65	3.50	50.00
TEMP	36.82					
NEU	32.76					
LStat	24.30					
LS8	23.64					
LS7	23.64					
LS6	23.64		ADT1LITH-A (1) Admyr Litho Density Tool	9.29	3.50	240.00
LS5	23.64					
LS4	23.64					
LS3	23.64					
LS2	23.64					
LS1	23.64					
LSV	23.64					
LSD	23.62					
SSV	23.43					
SS8	23.43					
SS7	23.43					
SS6	23.43					
SS5	23.43					
SS4	23.43		DIL-G (5375) Gearhart	21.47	4.00	345.00
SS3	23.43					
SS2	23.43					
SS1	23.43					
DCAL	23.37					
SSD	23.04					
SP	10.60					
CILD	10.60					
CILM	6.89					
RLL3	1.70					
TR_Mon	0.00					

TR_mon

0.00

Dataset: jofreif#1oh.db: field/well/run1/pass2.1
Total length: 41.49 ft
Total weight: 756.00 lb
O.D.: 4.00 in