DUAL INDUCTION LOG

Company	JOE GERSTNER OIL, LLC.
Well	WILLARD #1
Field	KEYSTONE
County	SCOTT
State	KS

Company JOE GERSTNER OIL, LLC.
Well WILLARD #1
Field KEYSTONE
County SCOTT State KS

Location: API # : 15 171 21282
1056' FSL & 465' FEL
SEC 24 TWP 18S RGE 32W

Other Services
CDNL
ML

Permanent Datum Ground Level Elevation 2966'
Log Measured From KB 5' AGL
Drilling Measured From KB

Elevation
K.B. 2971
D.F. 2969
G.L. 2966

Date	12/18/21	
Run Number	One	
Depth Driller	4643	
Depth Logger	4645	
Bottom Logged Interval	4643	
Top Log Interval	00	
Casing Driller	8 5/8" @ 306'	
Casing Logger	306	
Bit Size	7 7/8"	
Type Fluid in Hole	Chemical	Chlorides3400 ppm
Density / Viscosity	9.2/61	
pH / Fluid Loss	10.5/8.0	
Source of Sample	Pit	
Rm @ Meas. Temp	.8@60degf	
Rmf @ Meas. Temp	.60@60degf	
Rmc @ Meas. Temp	.96@60degf	
Source of Rmf / Rmc	Calculated	
Rm @ BHT	.36@130degf	
Time Circulation Stopped	10:15 A.M.	
Time Logger on Bottom	1:00 PM	
Maximum Recorded Temperature	107degf	
Equipment Number	T605	
Location	Hays, KS	
Recorded By	GUS PFANENSTIEL	
Witnessed By	ANDREW STENZEL	

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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.

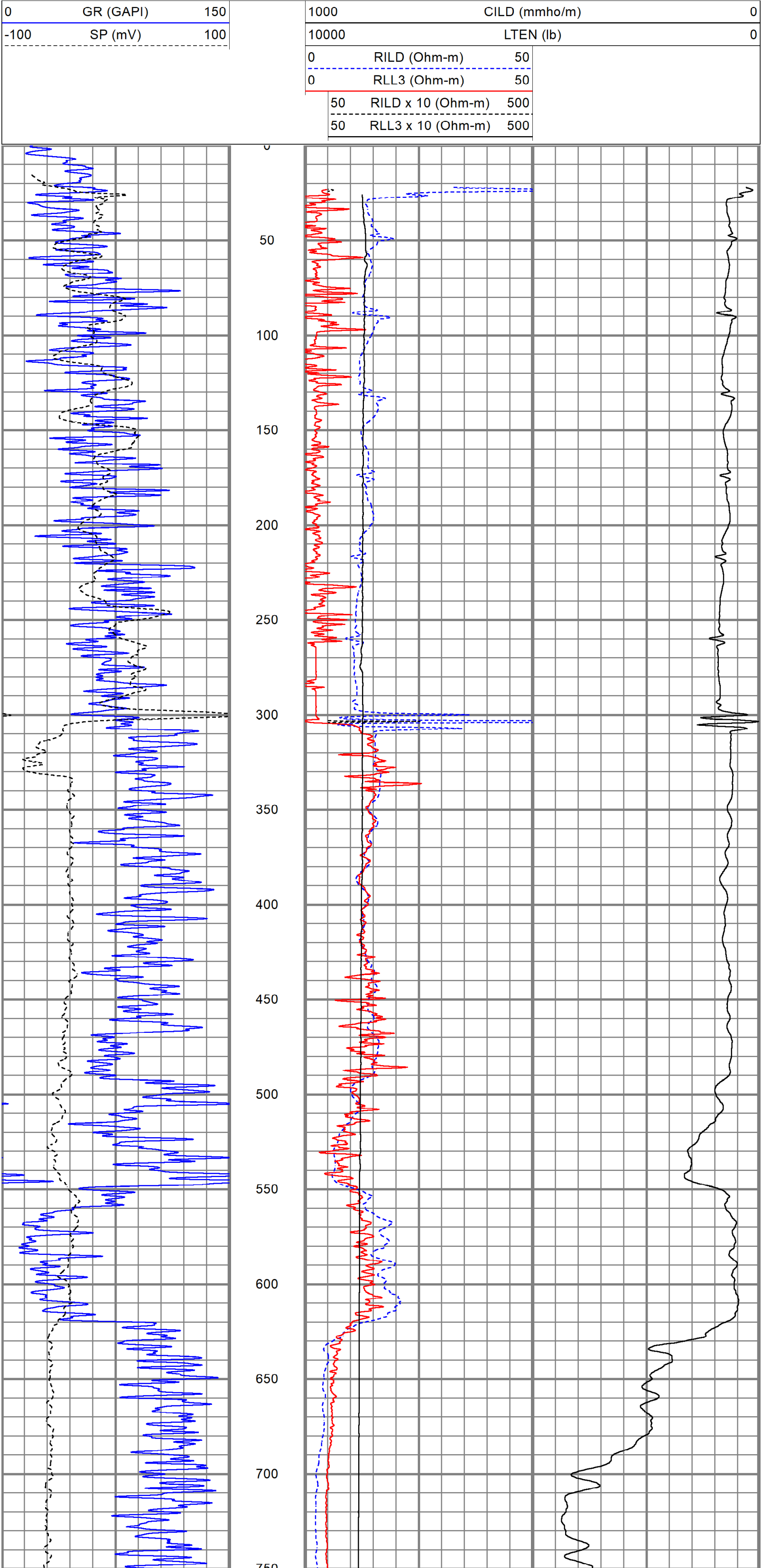
Comments

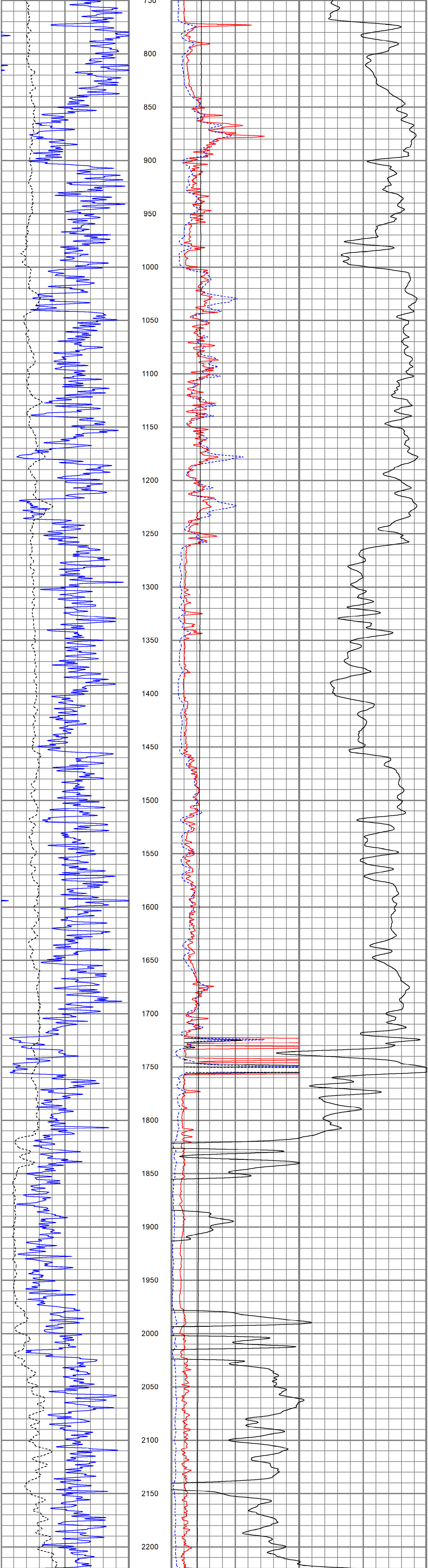
SCOTT CITY WEST TO RODEO RD, SOUTH 3/4 MILE, WEST INTO.

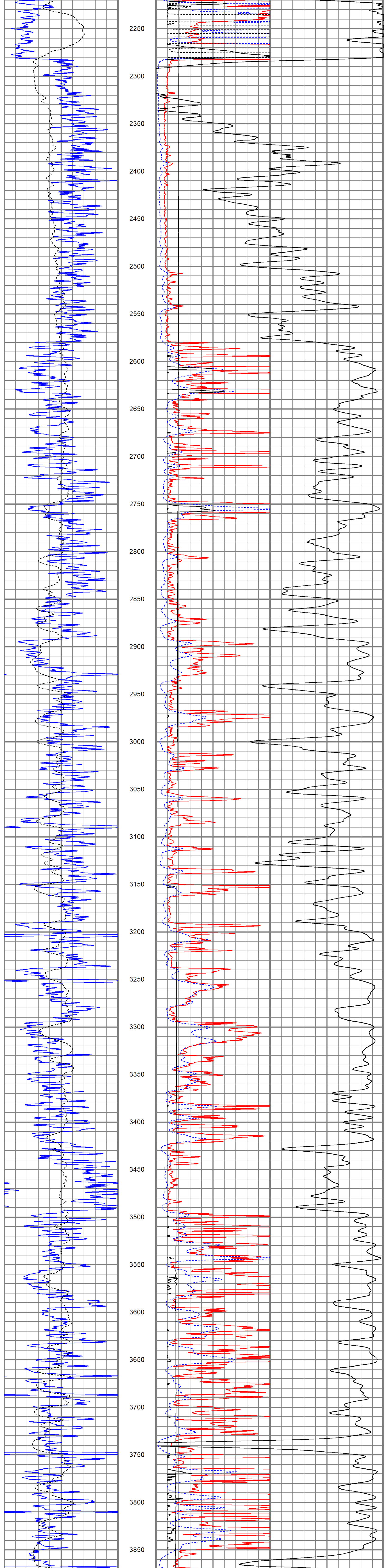
Thank You for using Gemini Wireline LLC
785-625-1182

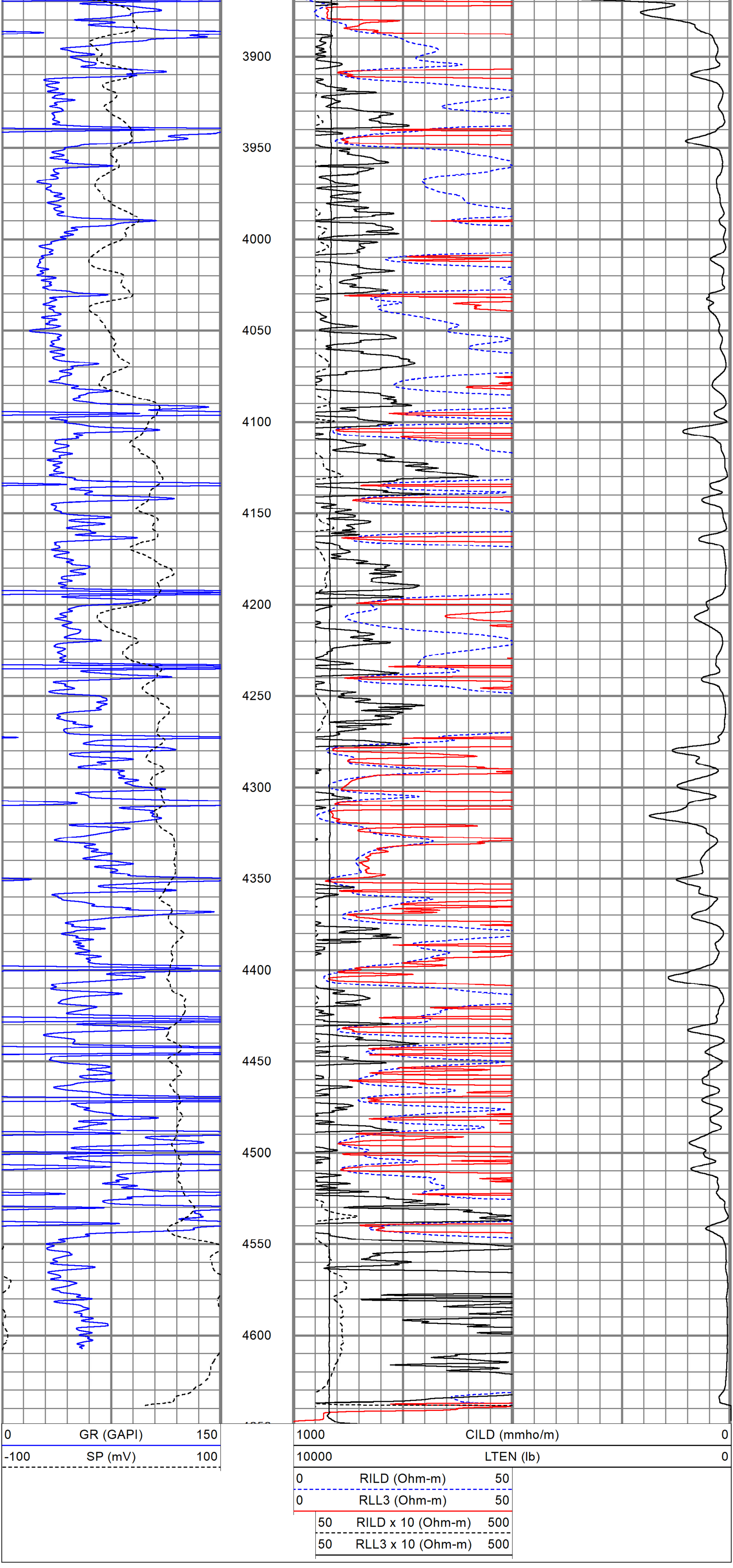
MAIN PASS

Database File	jgwillard#1oh.db
Dataset Pathname	pass3.1
Presentation Format	kdillinn
Dataset Creation	Sat Dec 18 14:25:41 2021
Charted by	Depth in Feet scaled 1:600





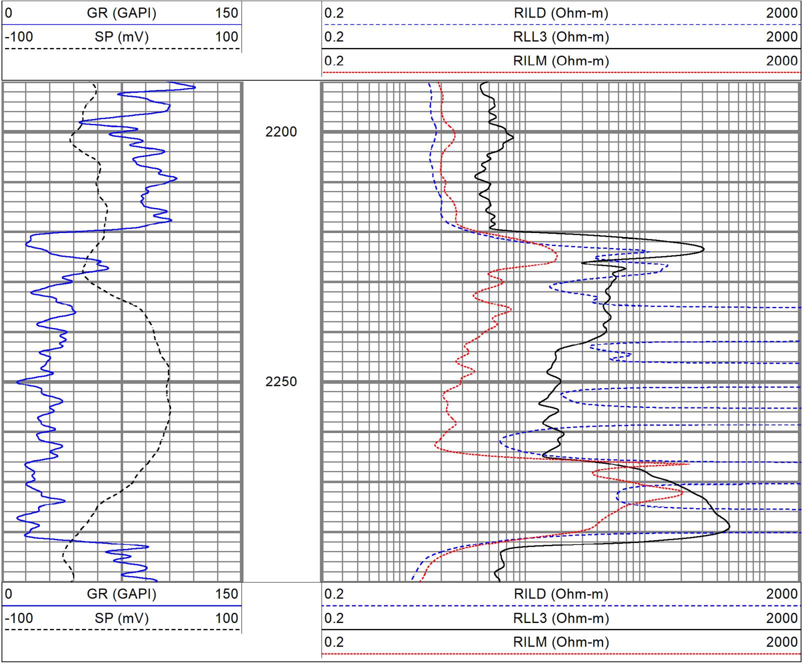




MAIN PASS

GEMINI WIRELINE

Database File	jgwillard#1oh.db
Dataset Pathname	pass3.1
Presentation Format	kdil
Dataset Creation	Sat Dec 18 14:25:41 2021
Charted by	Depth in Feet scaled 1:240



MAIN PASS

GEMINI WIRELINE

Database File	jgwillard#1oh.db
Dataset Pathname	pass3.1
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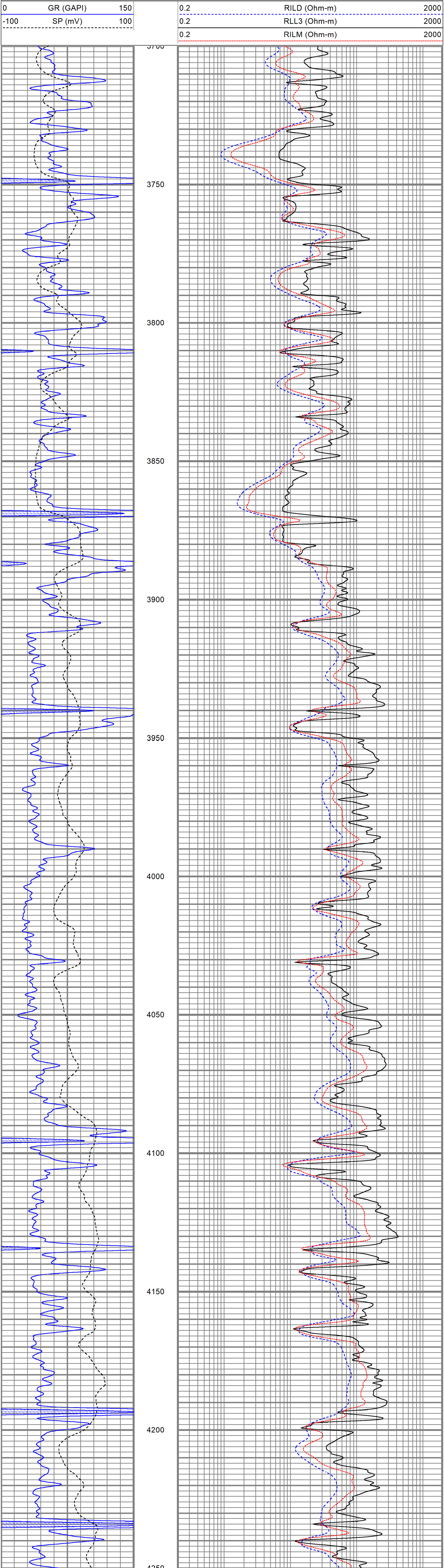
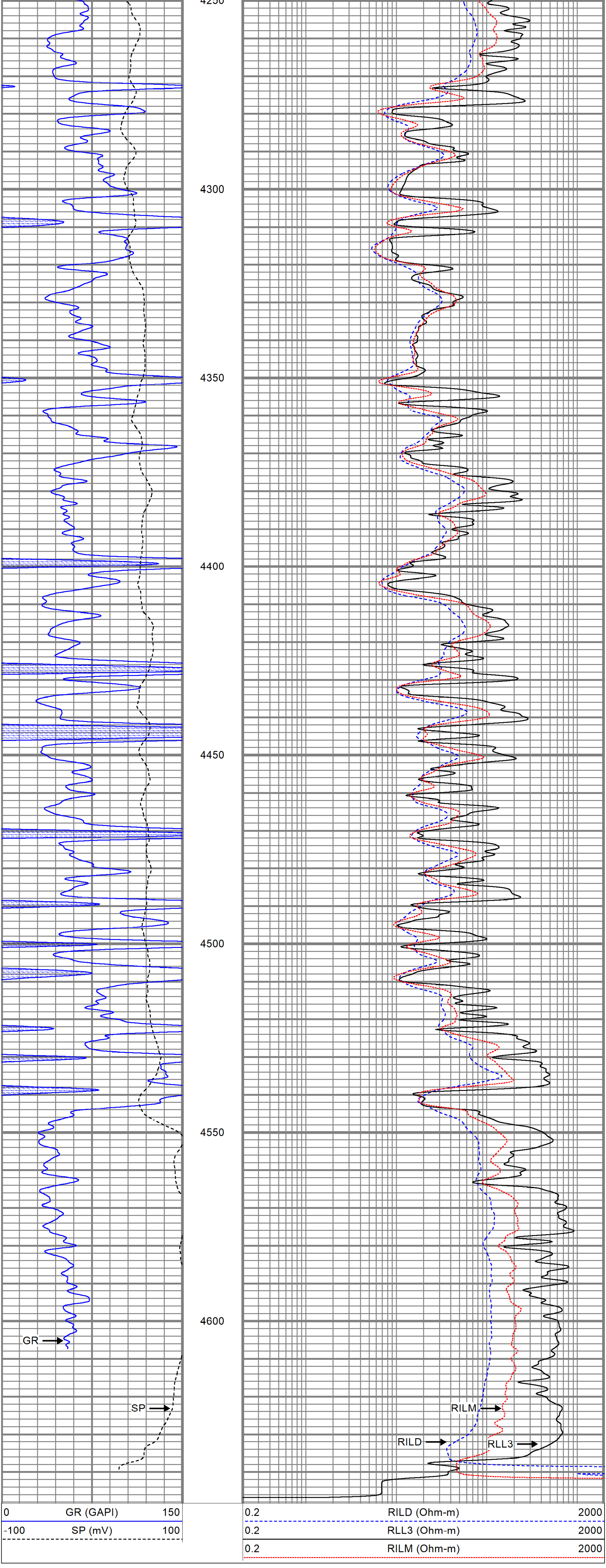
Dataset Creation	Sat Dec 18 14:25:41 2021
Charted by	Depth in Feet scaled 1:240

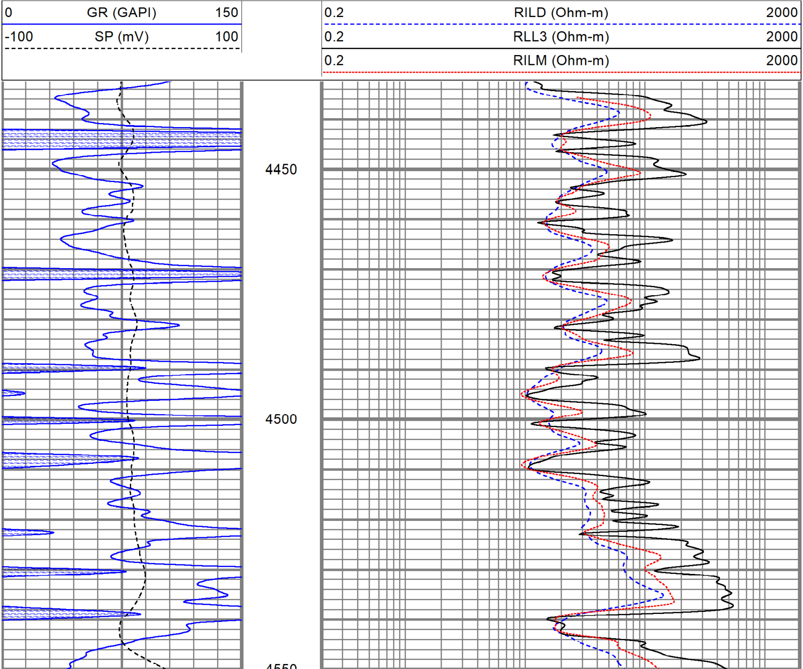


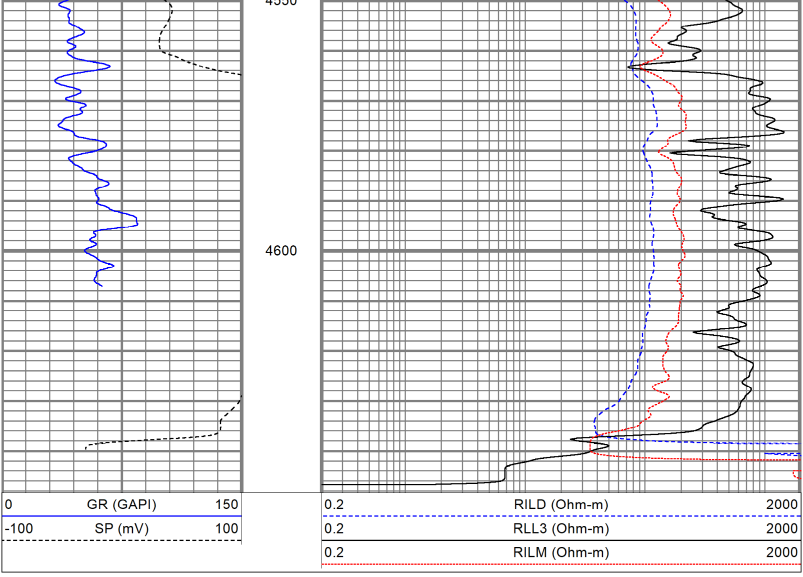


GEMINI WIRELINE

REPEAT SECTION

Database File	jgwillard#1oh.db
Dataset Pathname	pass2.1
Presentation Format	kdil
Dataset Creation	Sat Dec 18 14:32:11 2021
Charted by	Depth in Feet scaled 1:240





Calibration Report

Database File	jgwillard#1oh.db
Dataset Pathname	pass2.1
Dataset Creation	Sat Dec 18 14:32:11 2021

Dual Induction Calibration Report

Serial-Model:	1842-ADM
Surface Cal Performed:	Mon Sep 20 22:00:42 2021
Downhole Cal Performed:	Mon Sep 20 22:00:24 2021
After Survey Verification Performed:	Mon Sep 20 22:05:52 2021

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.018	0.672	V	0.000	350.000	mmho/m	535.475	-9.896
Medium	0.003	0.769	V	0.000	400.000	mmho/m	522.607	-1.745
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.018	0.672	V	0.000	350.000	mmho/m	535.240	-9.549
Medium	0.003	0.768	V	0.000	550.000	mmho/m	718.637	-2.088

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-0.219	349.905	mmho/m	-0.343	349.810	mmho/m	1.000	-3.124
Medium	-0.118	399.722	mmho/m	-0.226	399.745	mmho/m	1.000	-3.108
Shallow	2.536	0.025	V	500.000	2.000	Ohm-m	180.330	-1.504

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.219	349.905	mmho/m	1.000	-3.124
Medium	0.000	0.000	mmho/m	-0.118	399.722	mmho/m	1.000	-3.108
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: Wed May 5 19:20:48 2021

	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:	Wed May 5 19:21:08 2021	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps