PIONEER
Pioneer Energy Services

Company EXTRACTION OIL AND GAS
Well TROUDT 6
Field WATTENBERG
County WELD
State CO

DUAL INDUCTION
COMPENSATED DENSITY
COMPENSATED NEUTRON
GAMMA RAY

Company EXTRACTION OIL AND GAS
Well TROUDT 6
Field WATTENBERG
County WELD **State** CO

Location: API # : 05-123-41436
SHL: 537' FSL & 1091' FEL SESE
SEC 32 TWP 2N RGE 67W

Other Services
NONE

Permanent Datum GL Elevation 5079'
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 5099'
D.F. 5098'
G.L. 5079'

Date	AUGUST 12, 2015		
Run Number	1		
Depth Driller	8284'		
Depth Logger	7600'		
Bottom Logged Interval	7600'		
Top Log Interval	SURFACE CASING		
Casing Driller	1554'		
Casing Logger	1554'		
Bit Size	8.75"		
Type Fluid in Hole	OBM		
Density / Viscosity	8.8 / 46		
pH / Fluid Loss	N/A		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	N/A		
Rmf @ Meas. Temp	N/A		
Rmc @ Meas. Temp	N/A		
Source of Rmf / Rmc	N/A		
Rm @ BHT	N/A		
Time Circulation Stopped	0400		
Time Logger on Bottom	1050		
Maximum Recorded Temperature	203 F		
Equipment Number	52		
Location	FT. MORGAN		
Recorded By	SHAUN STUMP		
Witnessed By	SHAWN MCINTYRE		

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

Comments

ANNULAR VOLUMES CALCULATED FOR 5.5" CASING

SAVANNA DRILLING RIG #802

NO REPEAT DUE TO HOLE CONDITIONS
NO FOCUS TOOL DUE TO OIL BASE MUD

THANK YOU FOR USING PIONEER ENERGY SERVICES

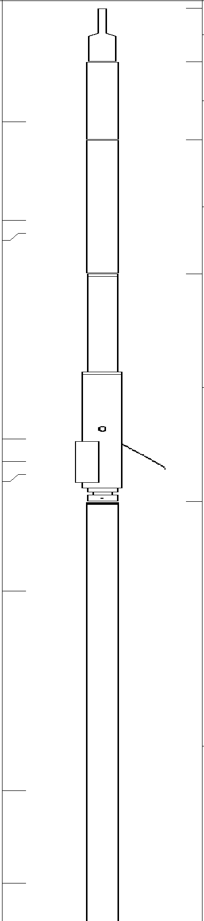
SO# 2-013995

Log Variables

DatabaseC:\ProgramData\Warrior\Data\2-013995.db
Dataset field/well/run1/pass2/_vars_

Top - Bottom

SZCOR Off	NPORSEL Sandstone	FLUIDDEN g/cc 1	MATRXDEN g/cc 2.68	SPSHIFT mV 107	SNDERRM mmho/m 0	SNDERR mmho/m 0	SRFTEMP degF 0
CASETHCK in 0	CASEOD in 5.5	PERFS 0	TDEPTH ft 0	BOTTEMP degF 203	BOREID in 8.75		

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			CHD (~0)	2.00	3.50	30.00
			GR-PSI (939)	2.92	3.50	40.00
GR	0.00					
			CNT-PSI (856)	5.00	3.50	70.00
CNLSC	3.67					
CNSSC	4.17					
			CDL-PSI (998)	8.50	5.00	285.00
DCAL	11.84					
LSD	12.67					
SSD	13.17					
RLL3	17.52					
			DIL-PSI (1011)	18.25	3.75	175.00
CILD	24.97					
CILM	28.42					

SP	32.42

Dataset:	2-013995.db: field/well/run1/pass2
Total length:	36.67 ft
Total weight:	600.00 lb
O.D.:	5.00 in

PIONEER

Pioneer Energy Services

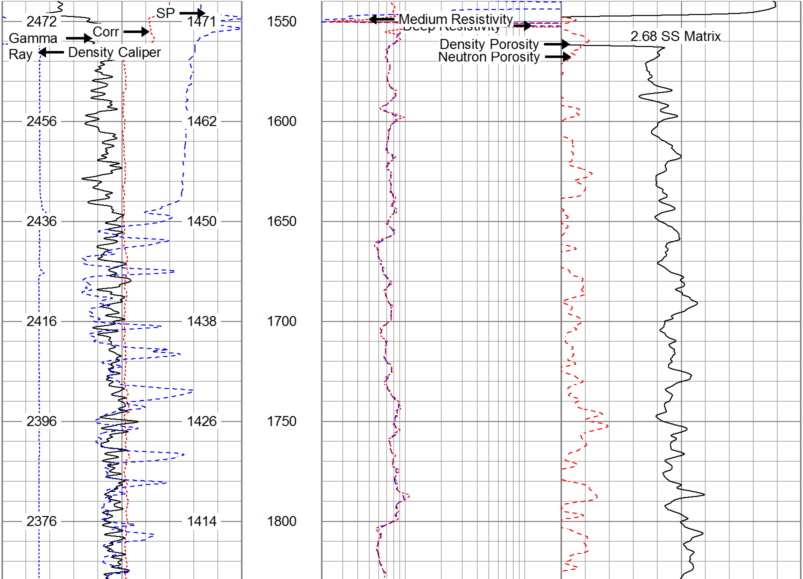
MAIN PASS

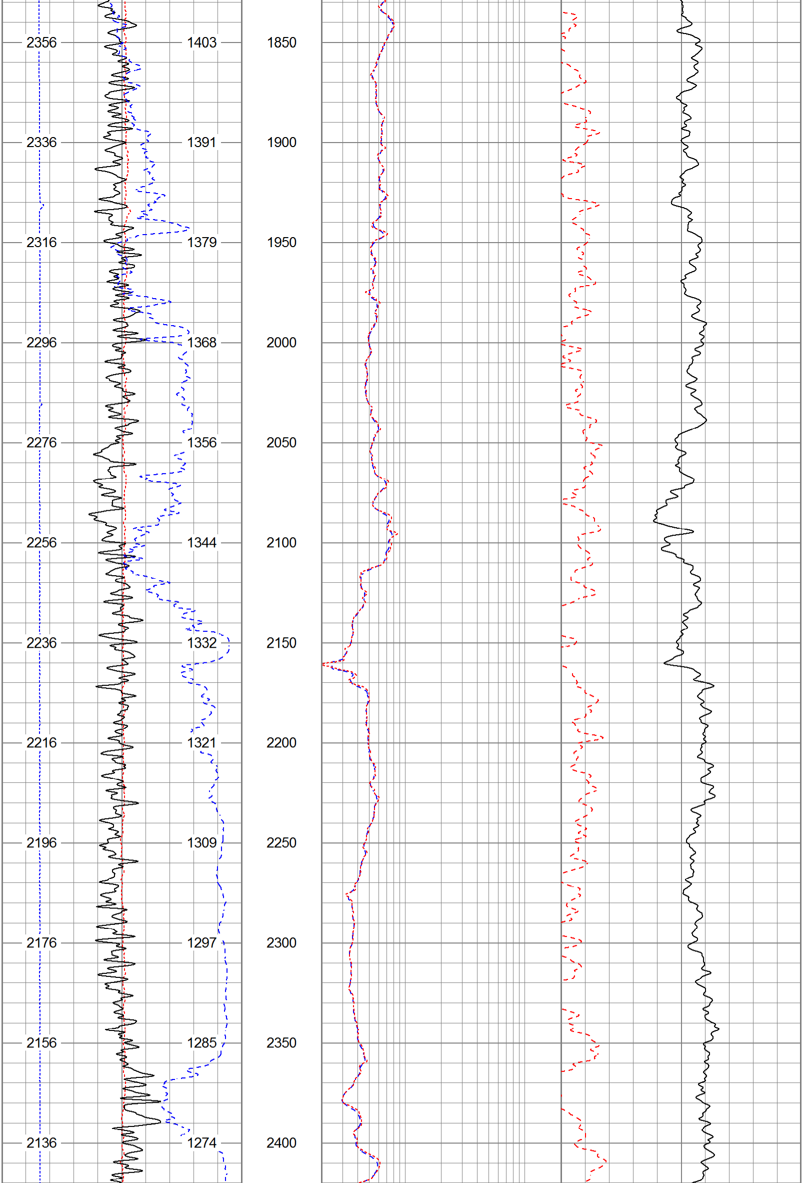
Database File	2-013995.db
Dataset Pathname	pass2.2
Presentation Format	split
Dataset Creation	Wed Aug 12 11:54:15 2015
Charted by	Depth in Feet scaled 1:600

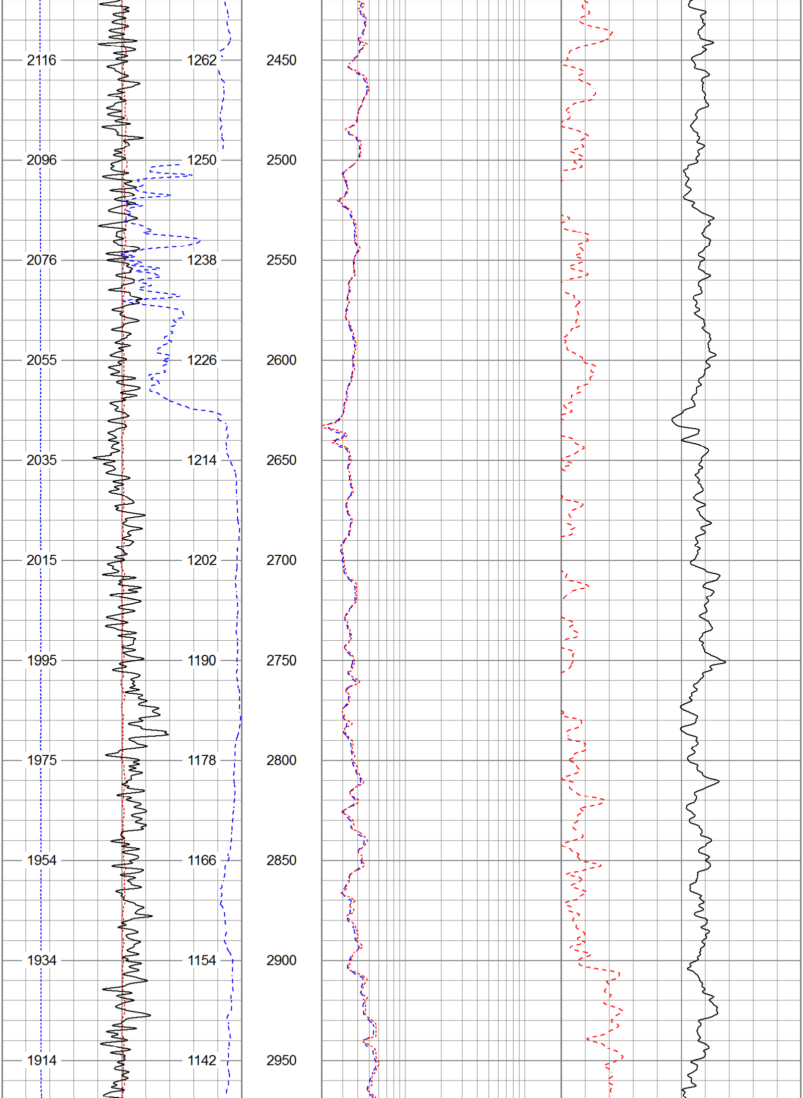
-0.5	Corr (g/cc)	0.5
7	Density Caliper (in)	17
0	Gamma Ray (GAPI)	200
-150	SP (mV)	250
TBHV (ft3)		ABHV (ft3)

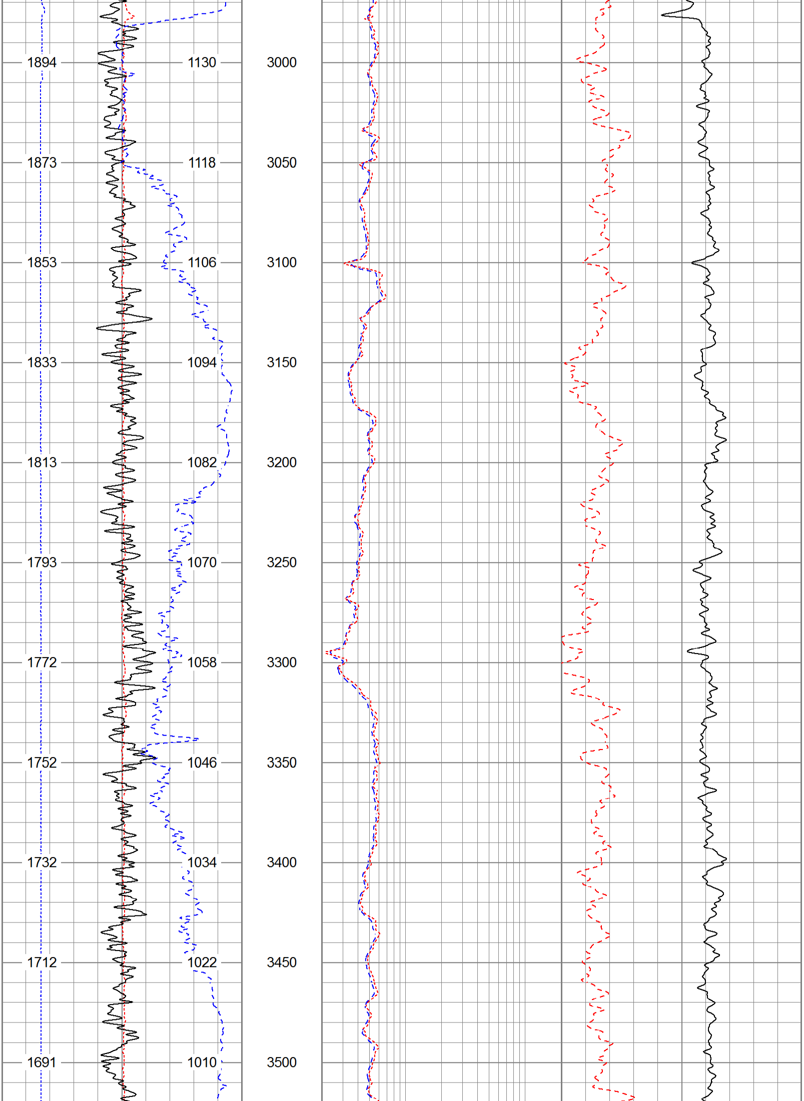
2	Deep Resistivity (Ohm-m)	200
2	Medium Resistivity (Ohm-m)	200
2	Shallow Resistivity (Ohm-m)	200

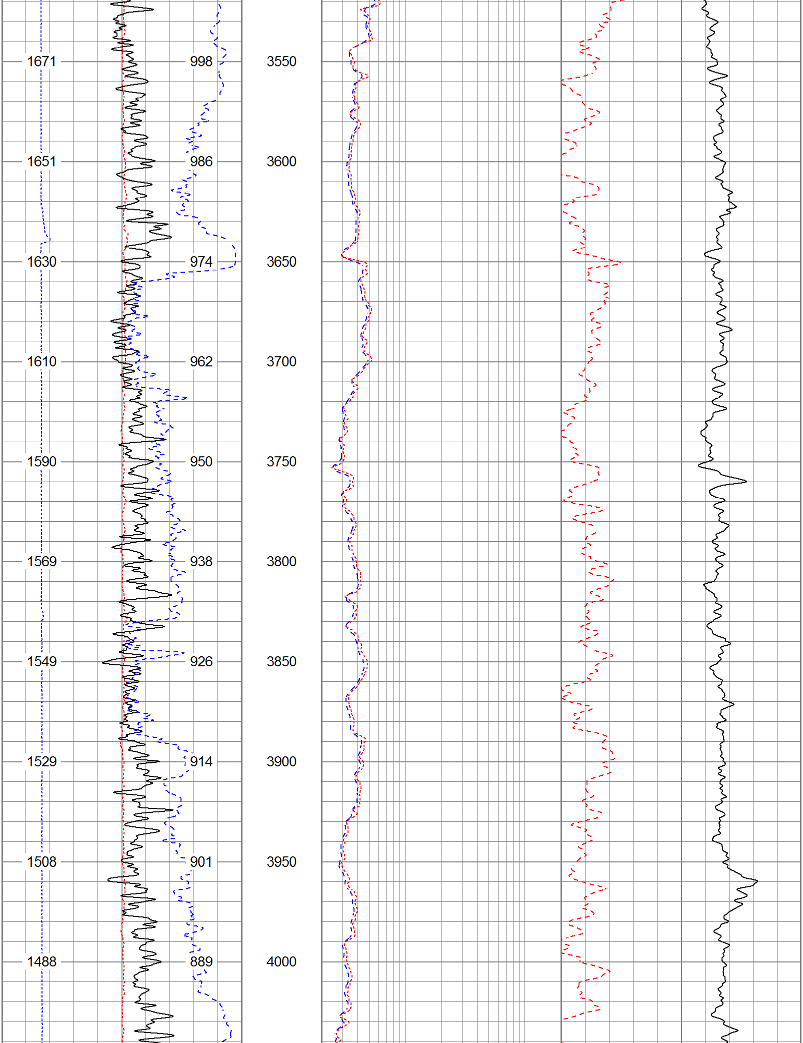
30	Density Porosity (pu)	0
30	Neutron Porosity (pu)	0

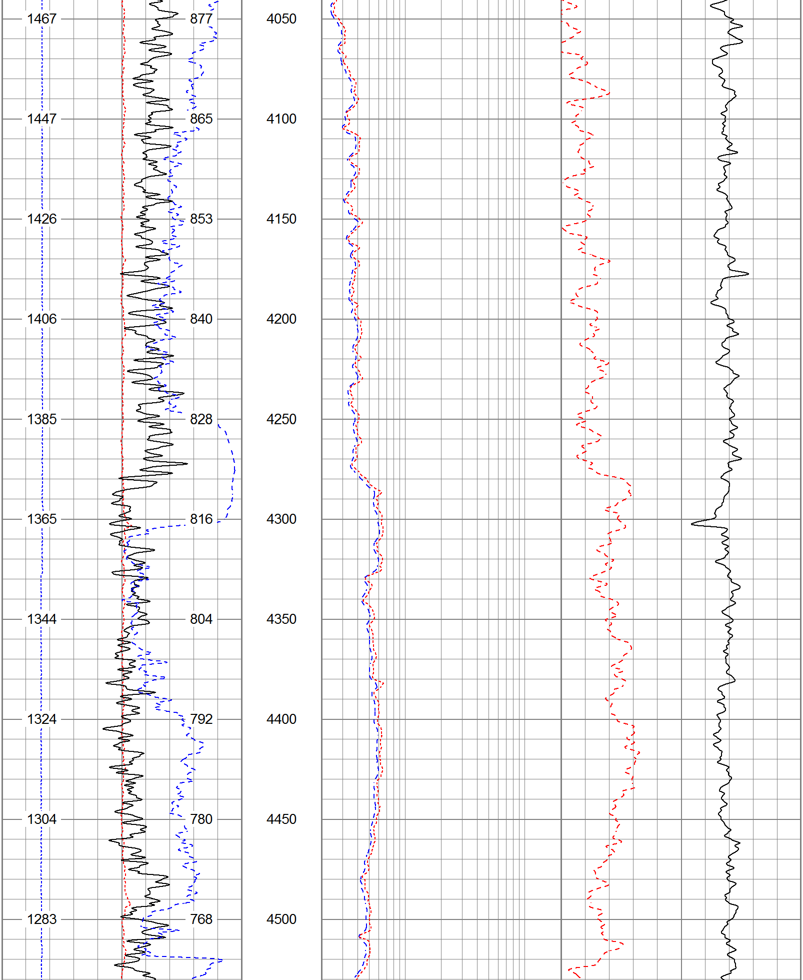


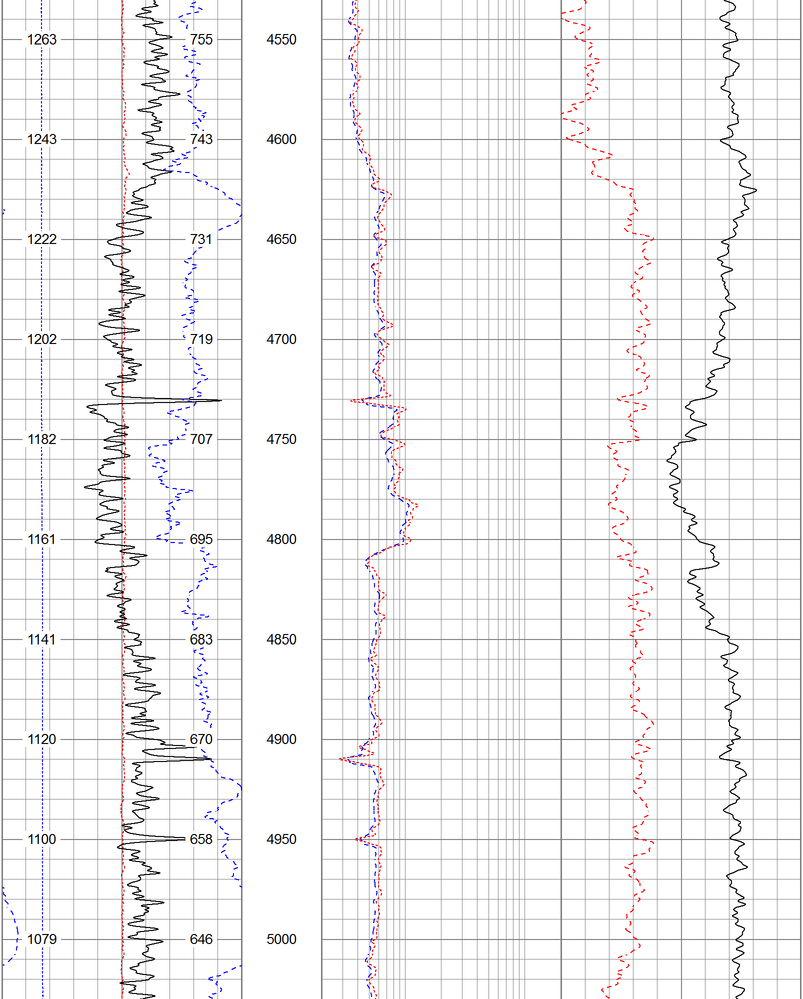


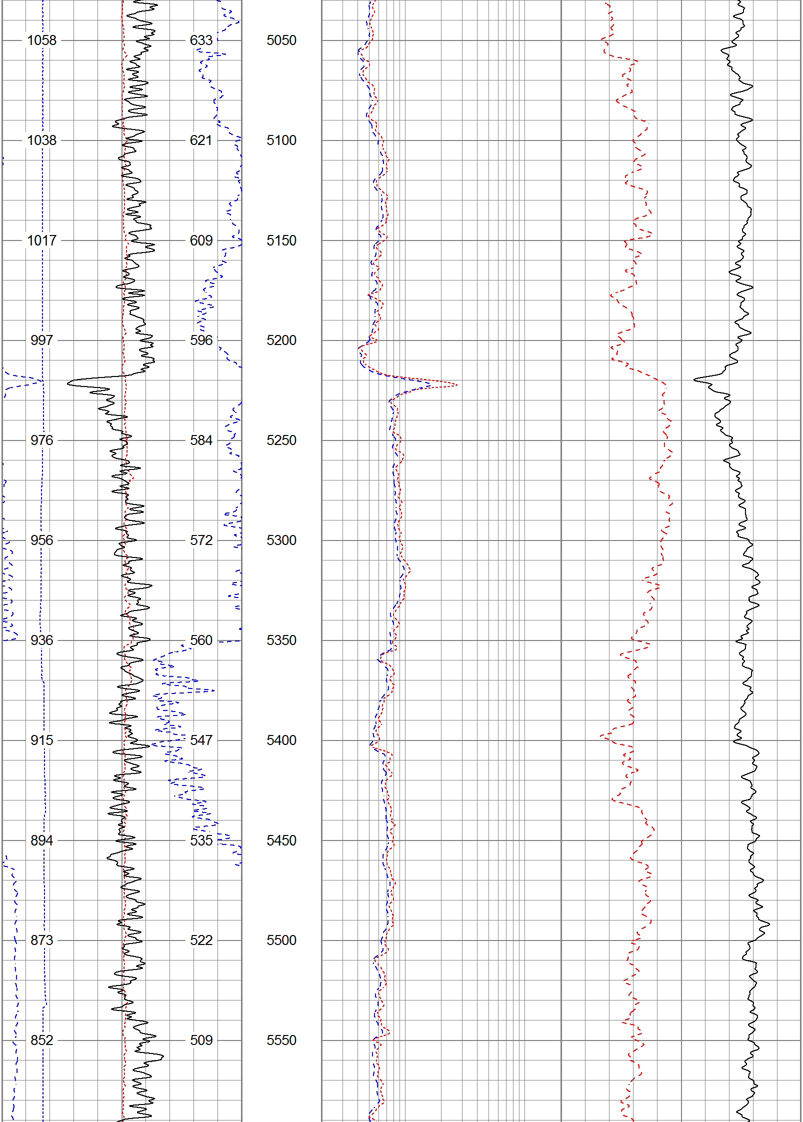


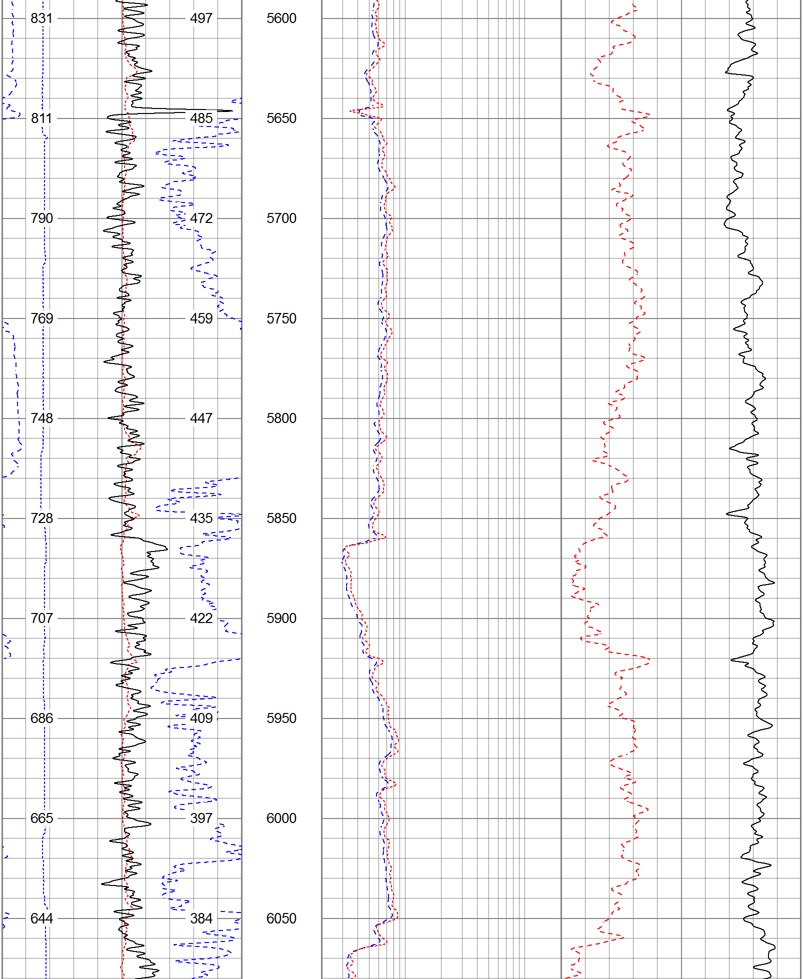


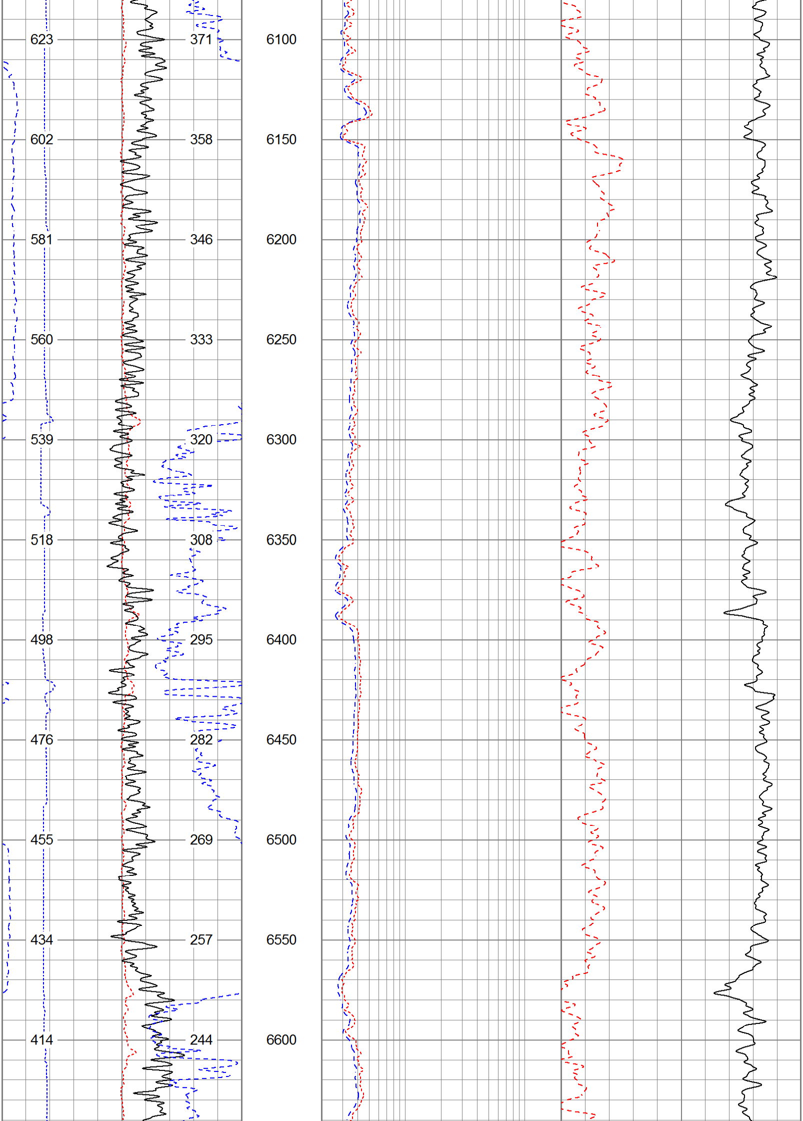


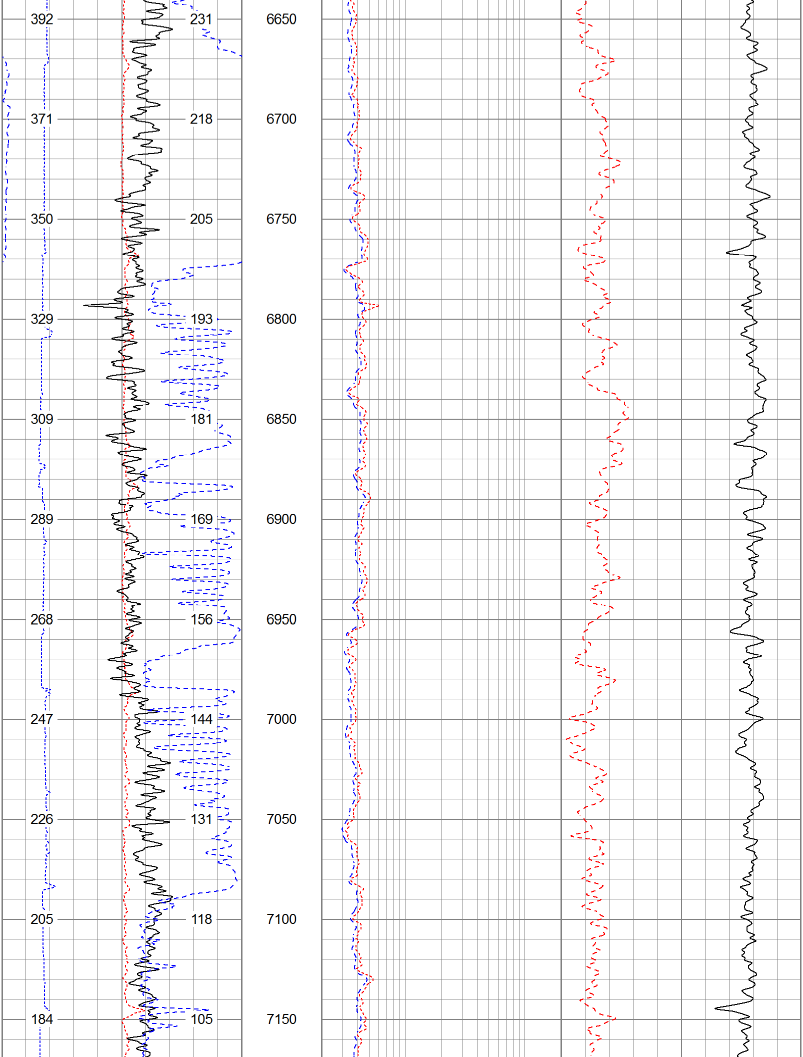


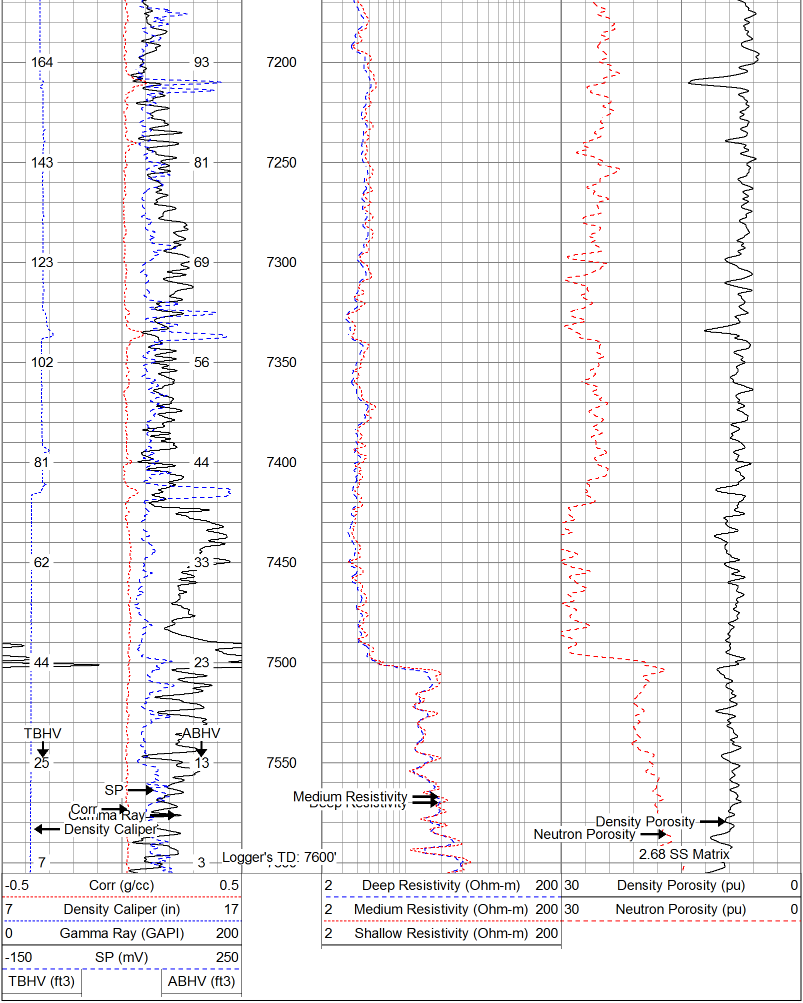












Pioneer Energy Services

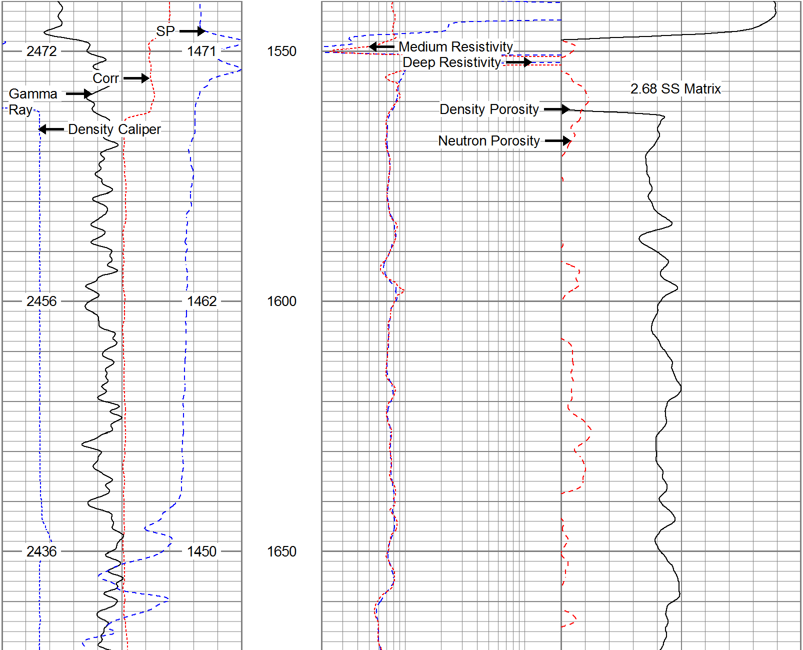
MAIN PASS

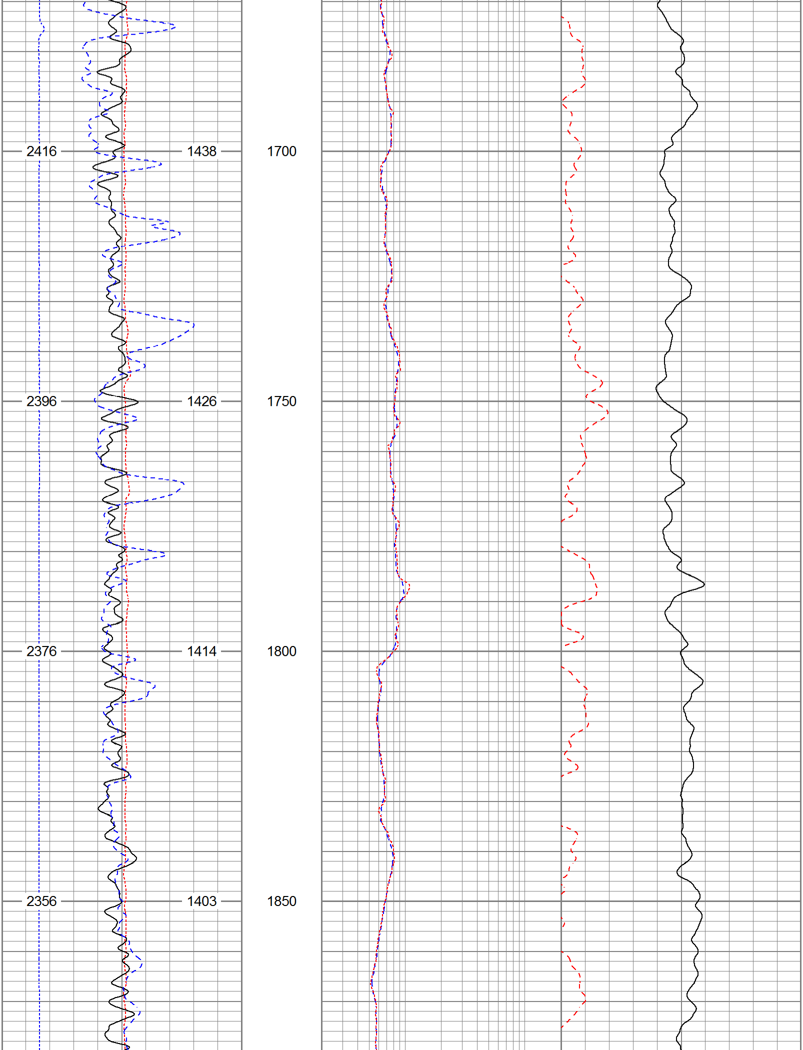
Database File	2-013995.db
Dataset Pathname	pass2.2
Presentation Format	split
Dataset Creation	Wed Aug 12 11:54:15 2015
Charted by	Depth in Feet scaled 1:240

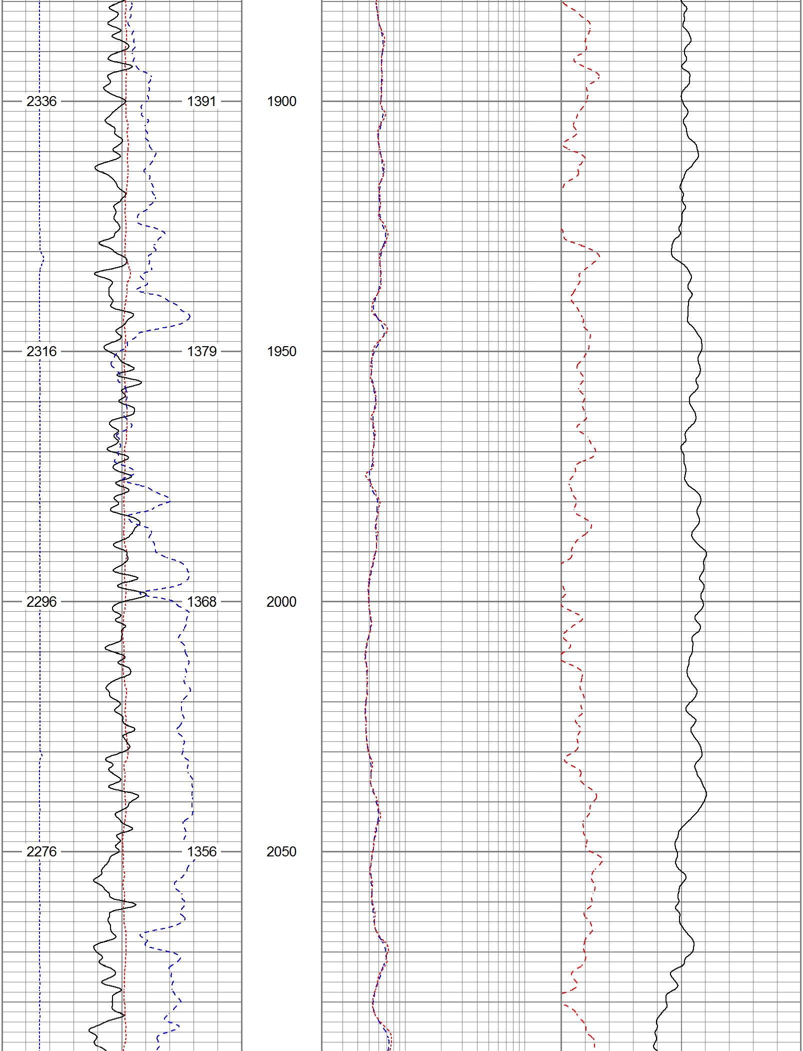
-0.5	Corr (g/cc)	0.5
7	Density Caliper (in)	17
0	Gamma Ray (GAPI)	200
-150	SP (mV)	250
TBHV (ft3)		ABHV (ft3)

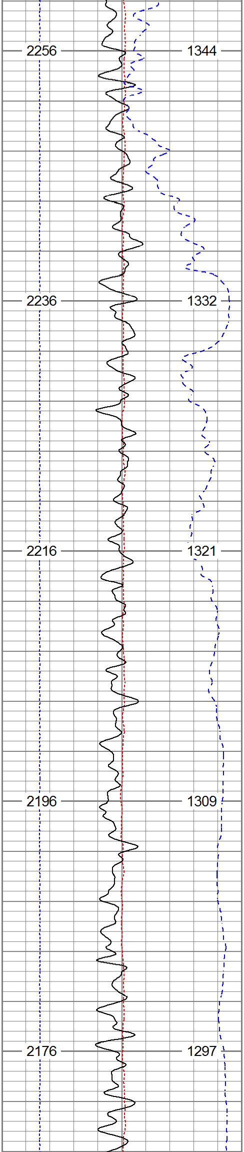
2	Deep Resistivity (Ohm-m)	200
2	Medium Resistivity (Ohm-m)	200
2	Shallow Resistivity (Ohm-m)	200

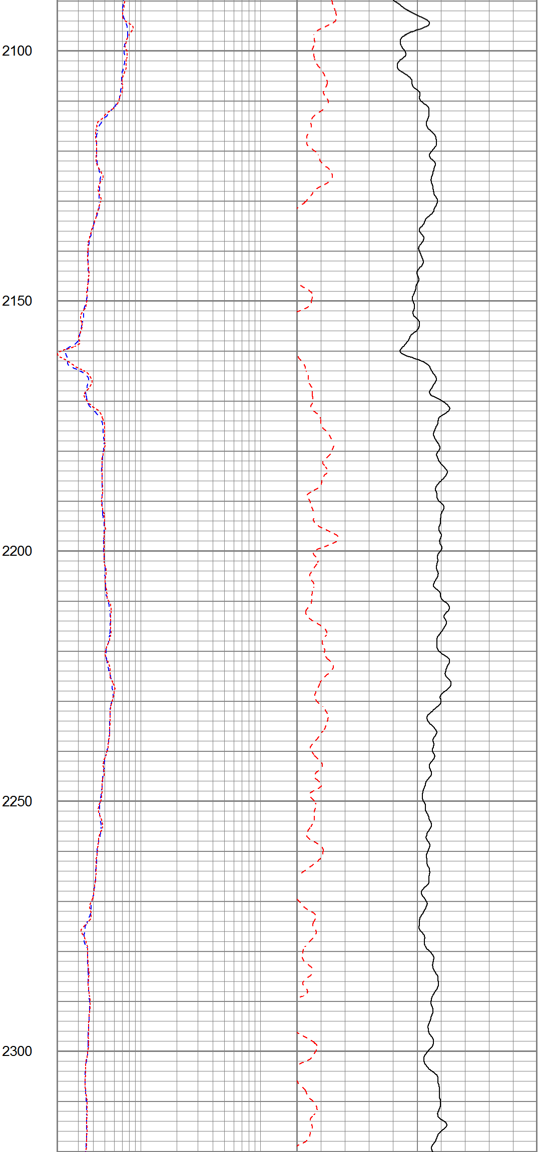
30	Density Porosity (pu)	0
30	Neutron Porosity (pu)	0

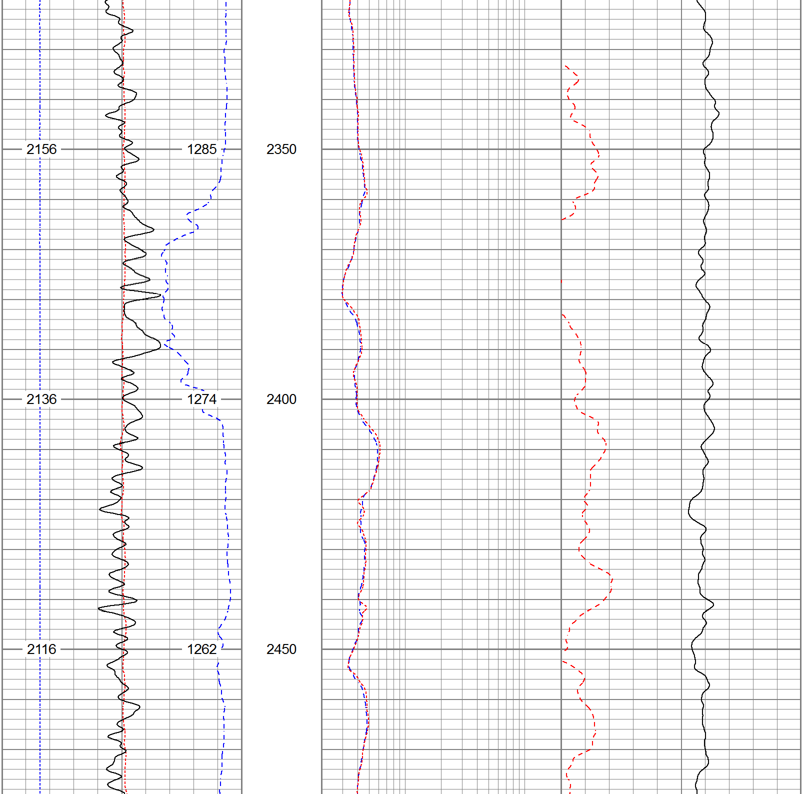


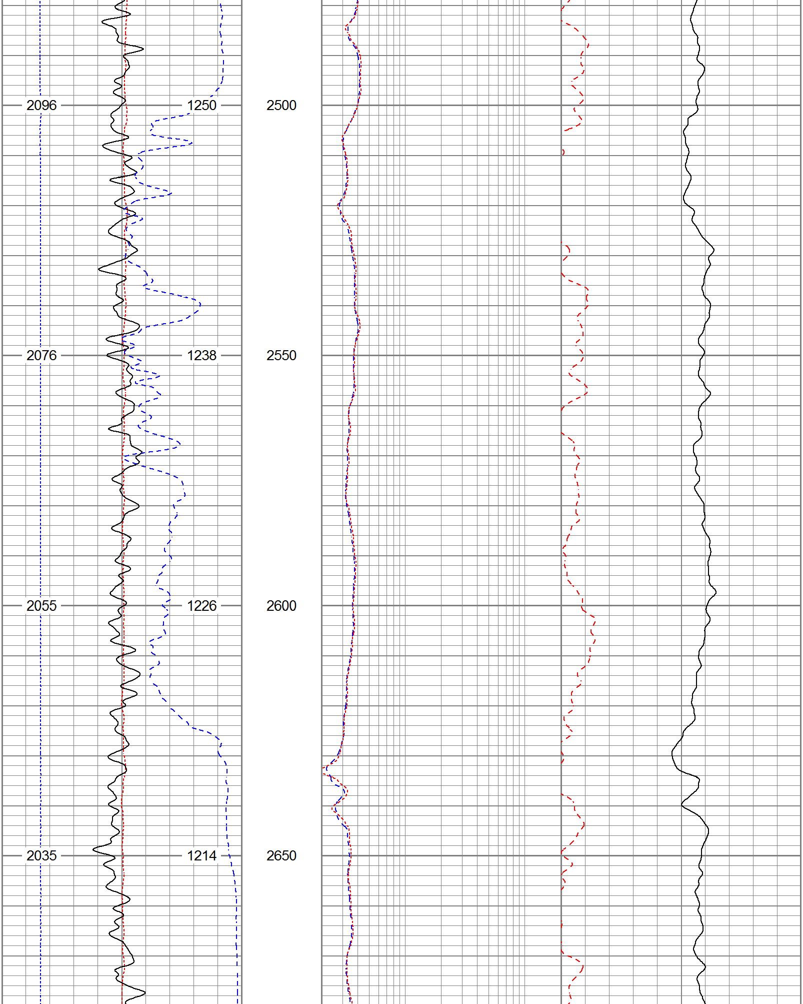








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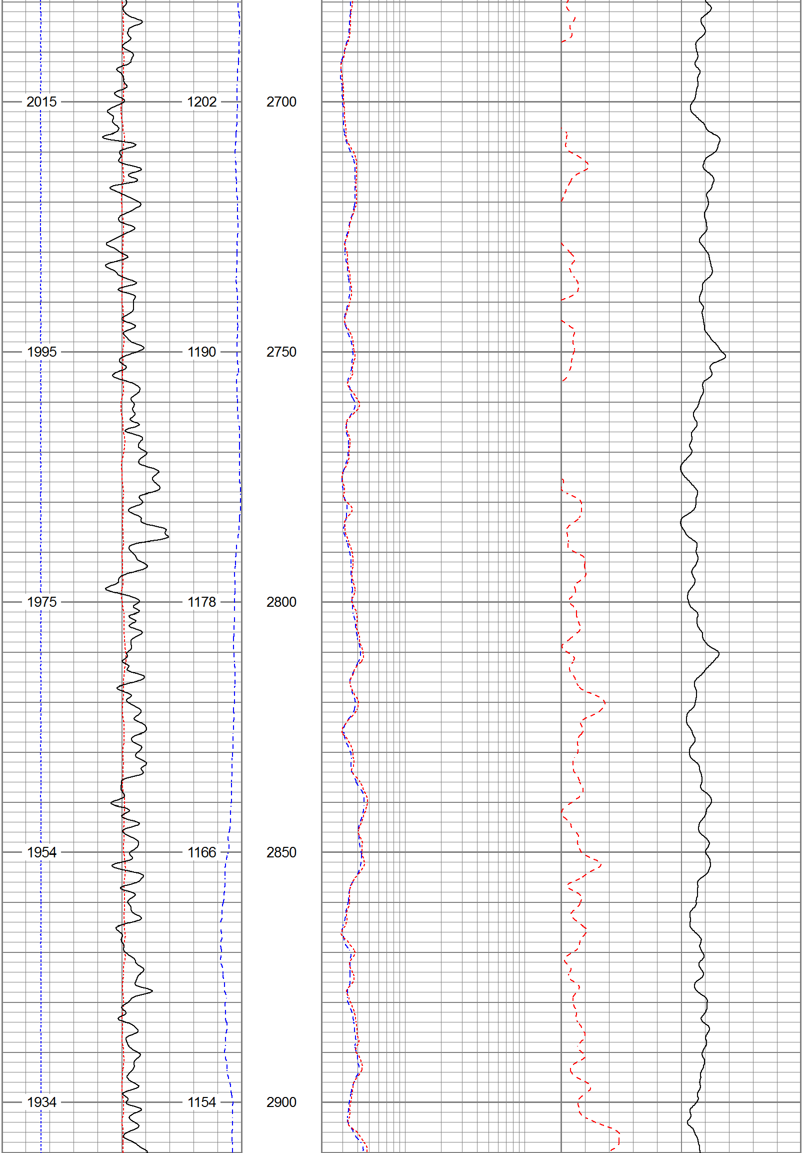
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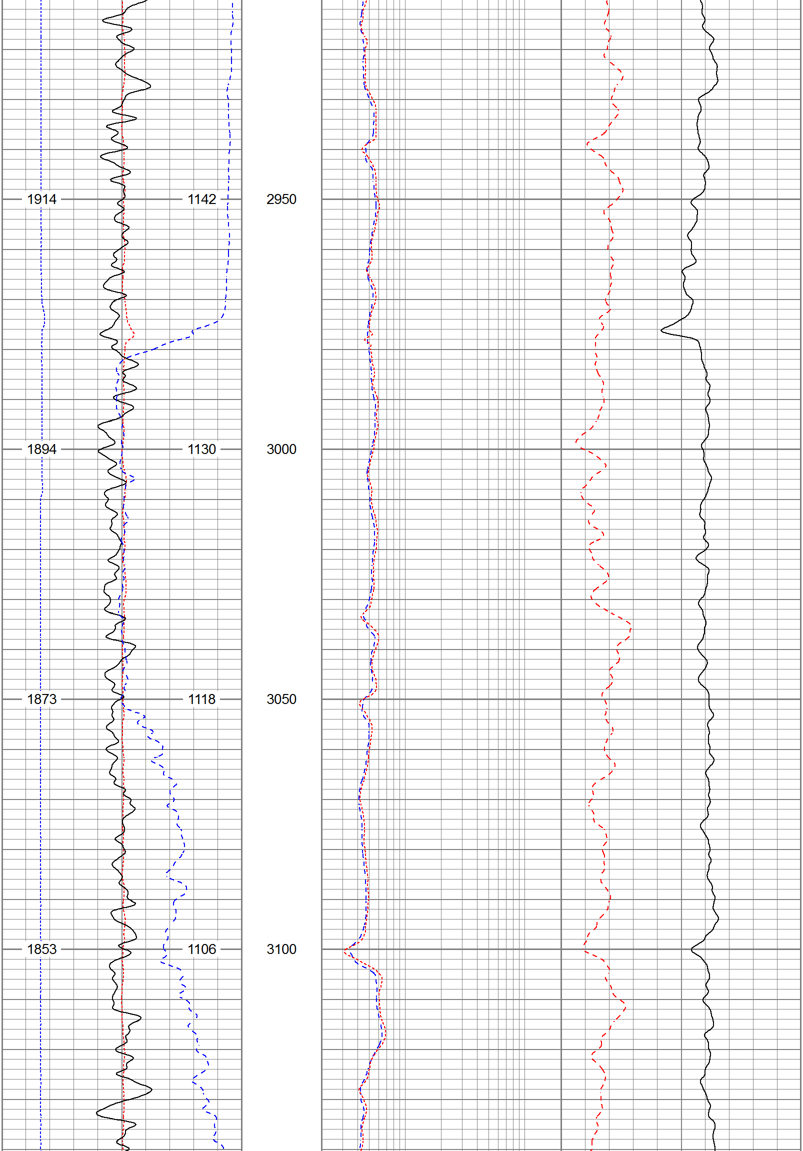
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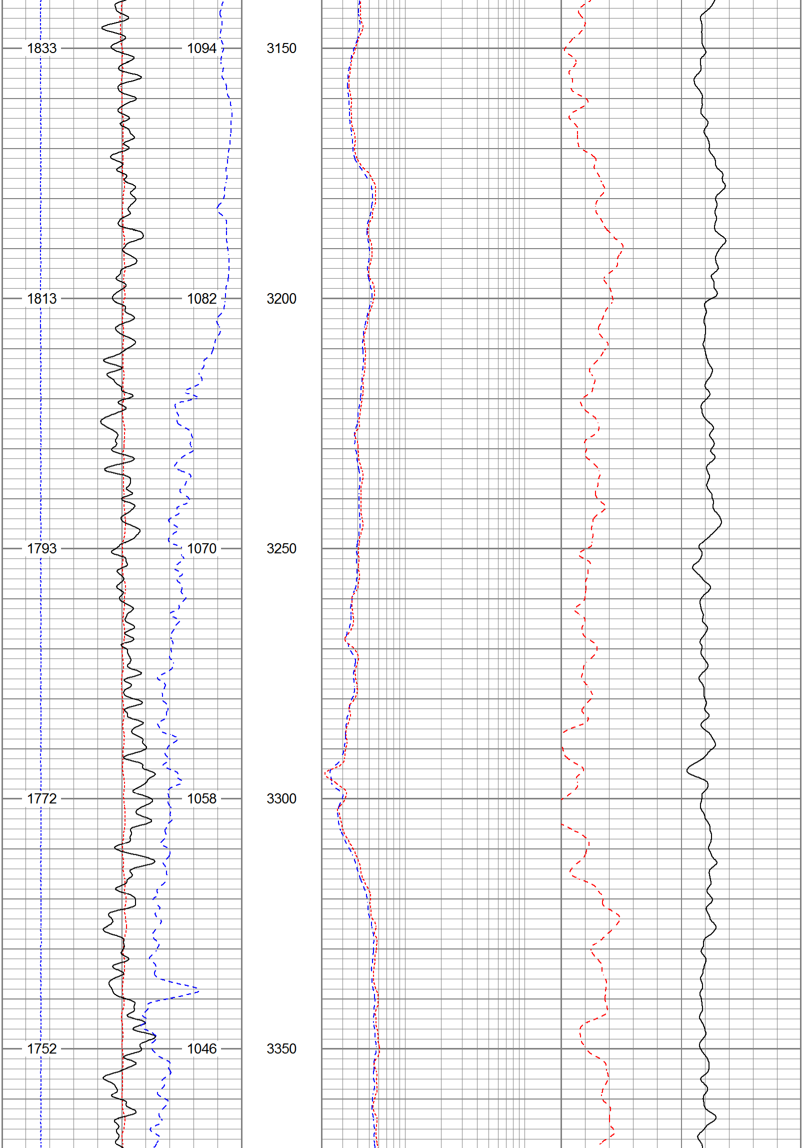
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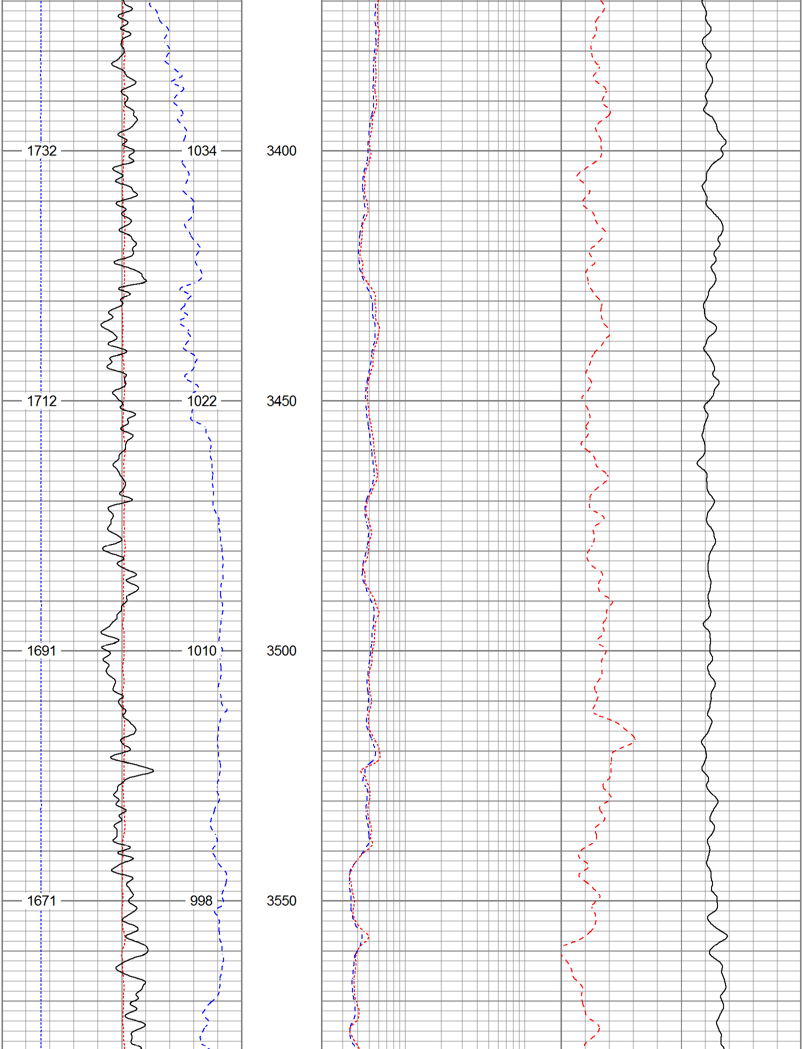
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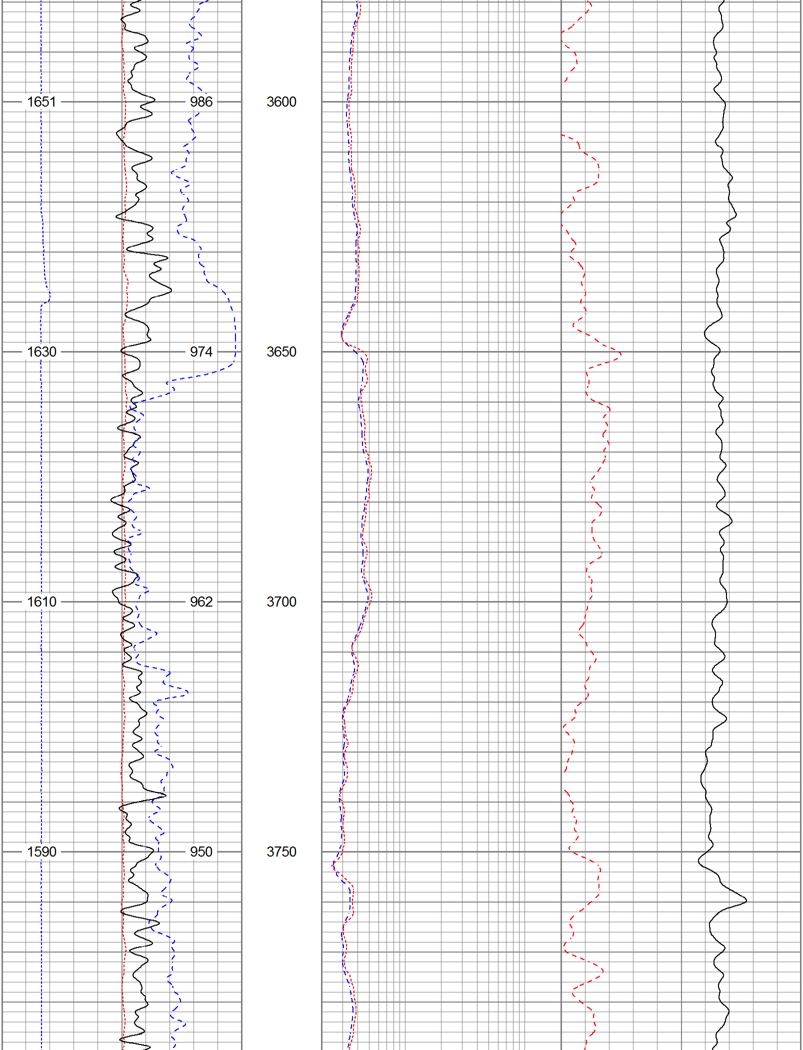
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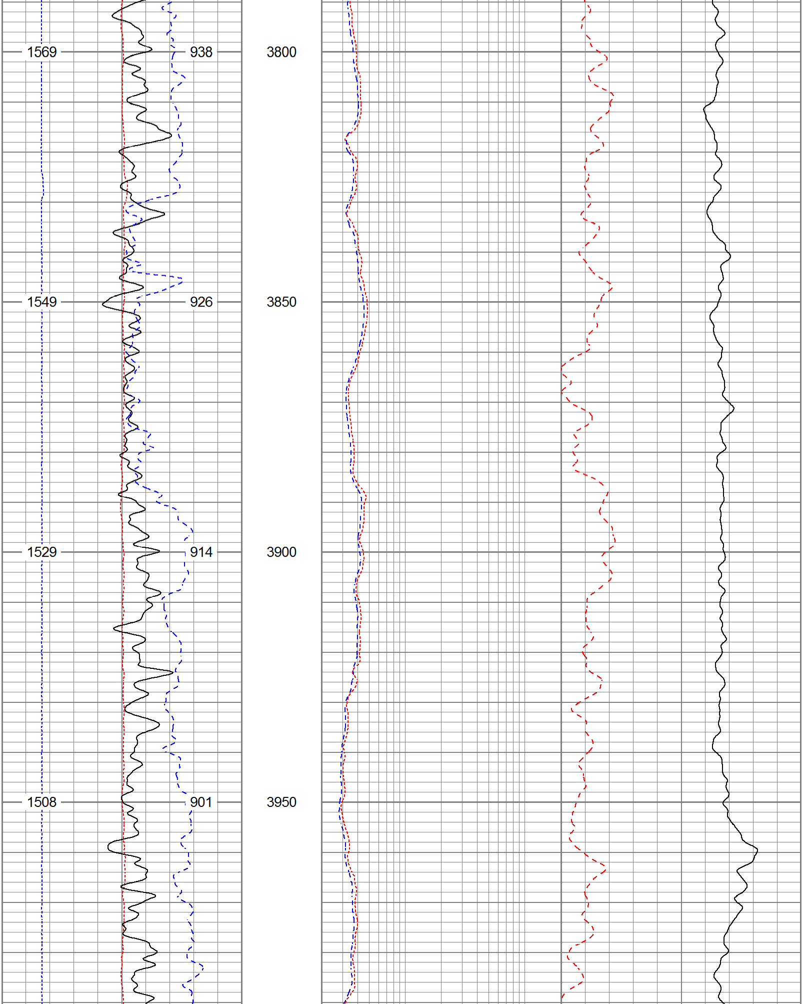
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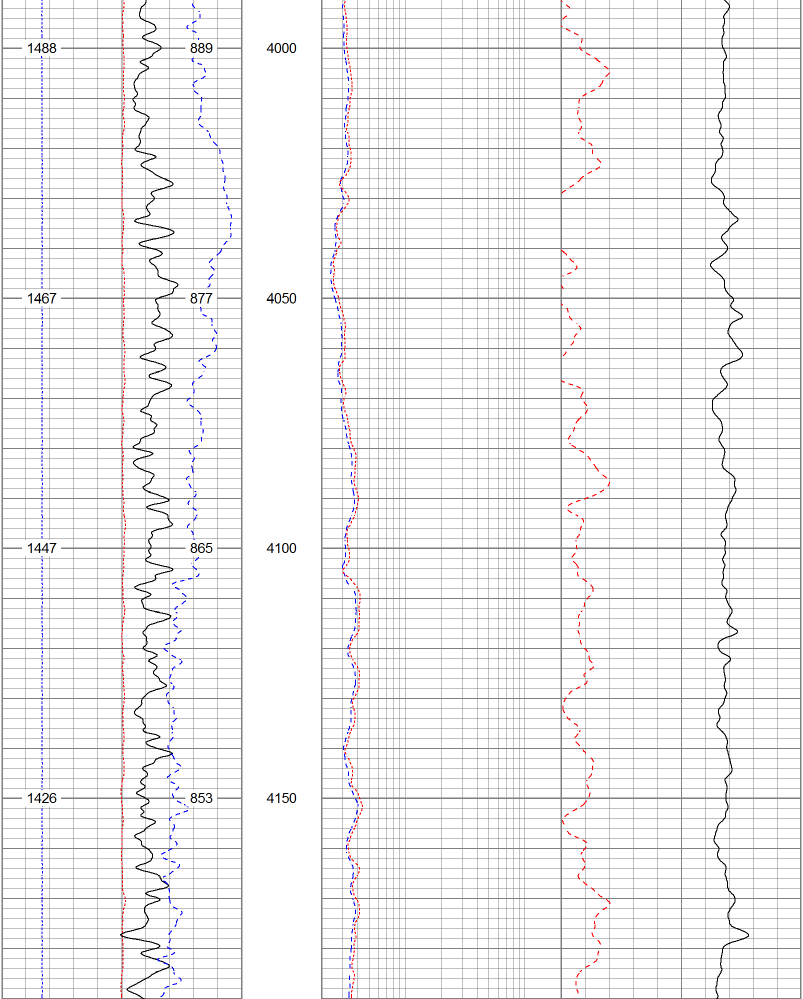
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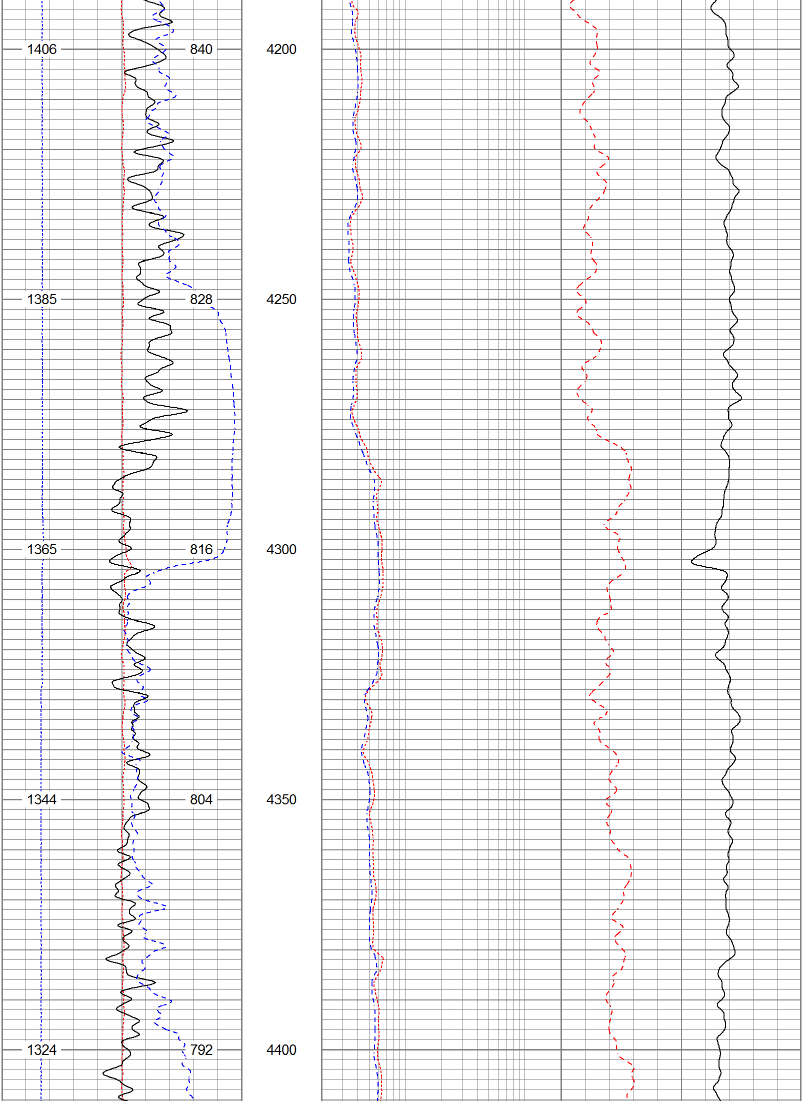
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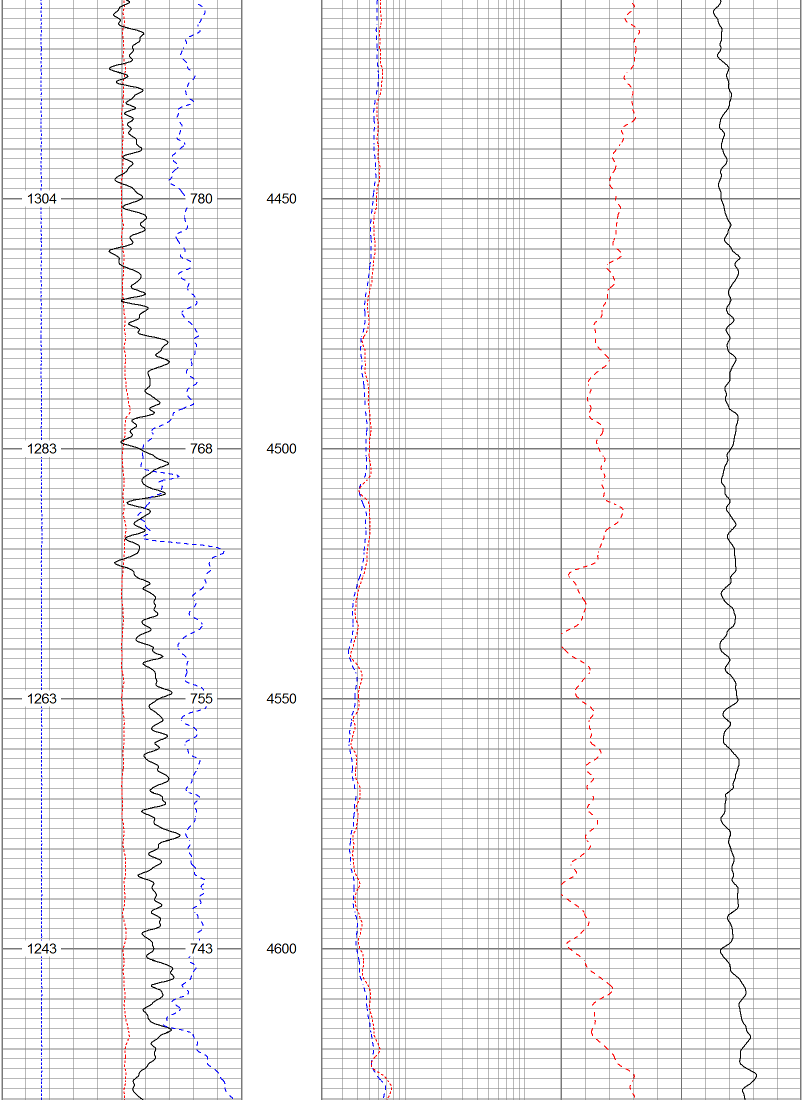
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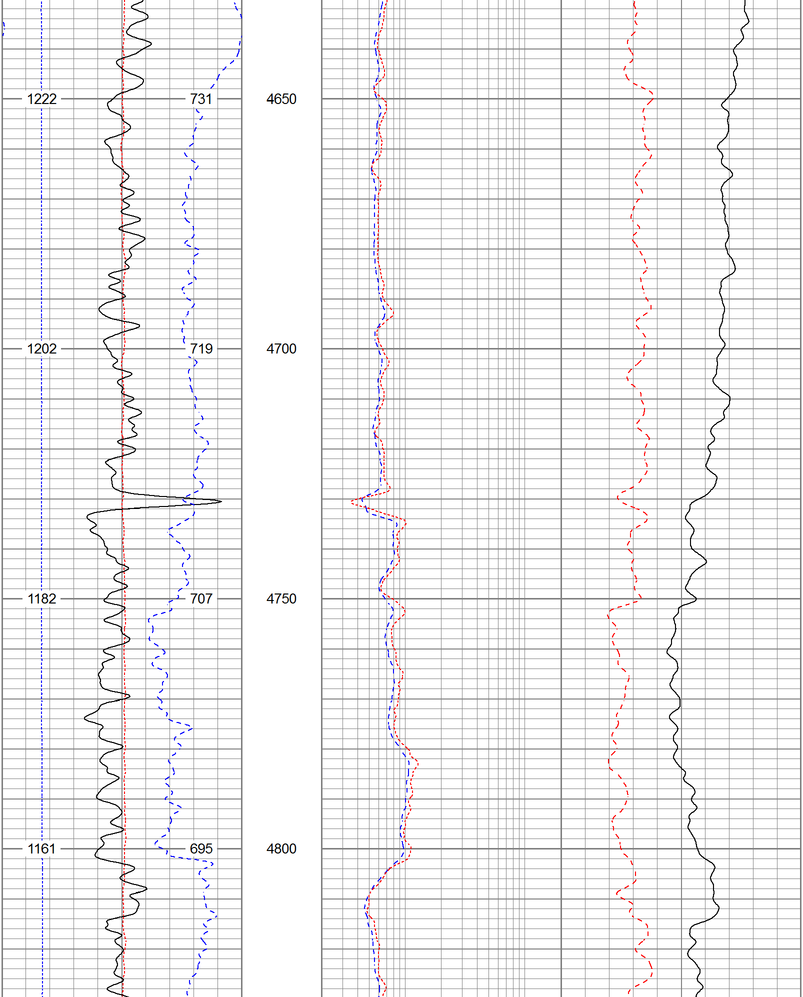
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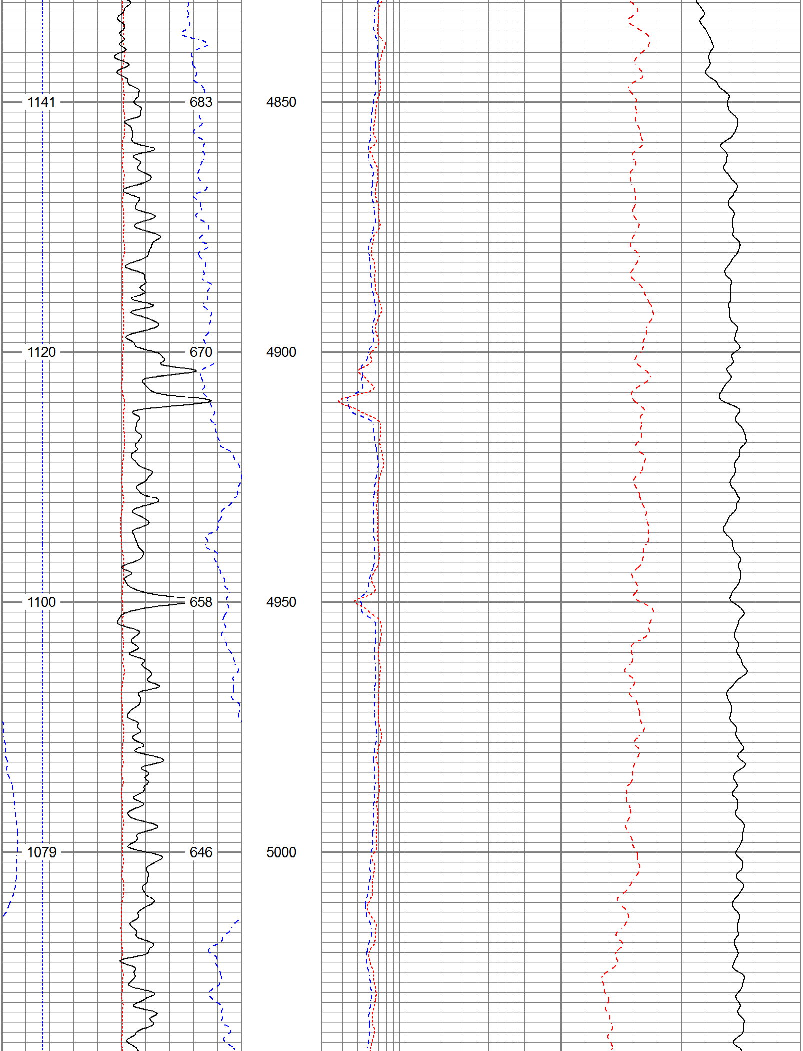
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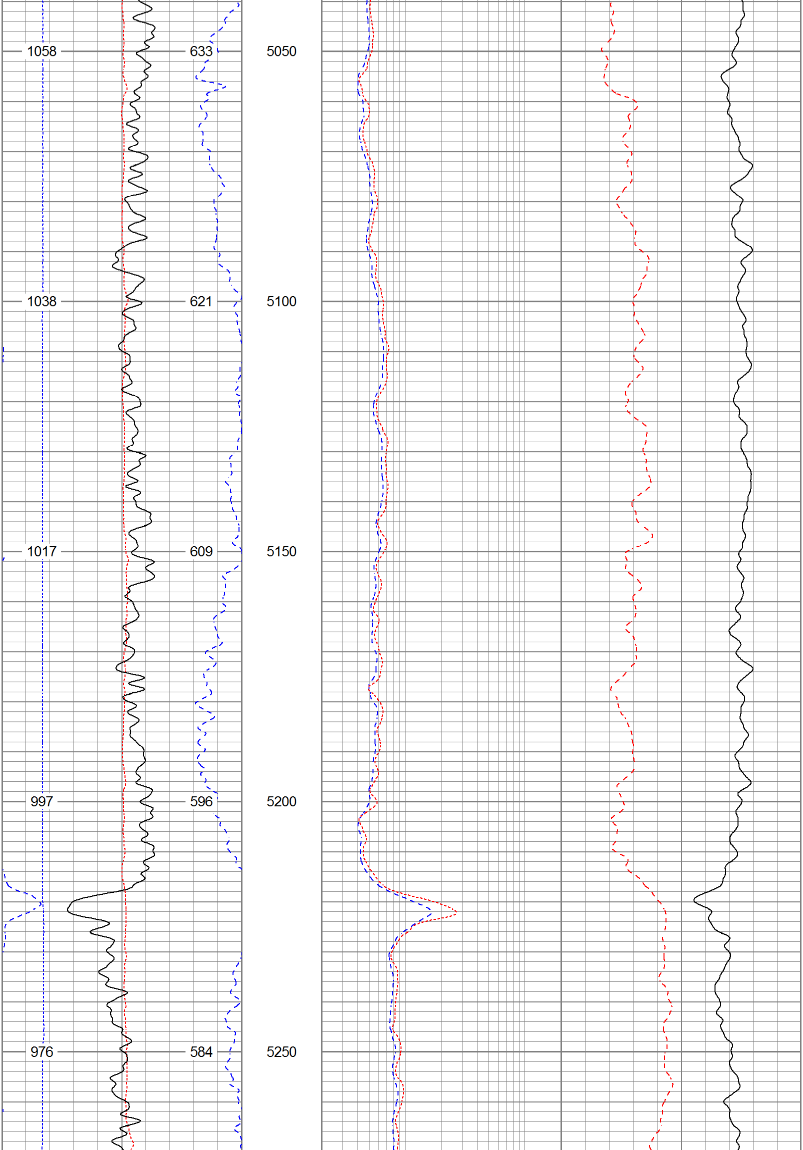
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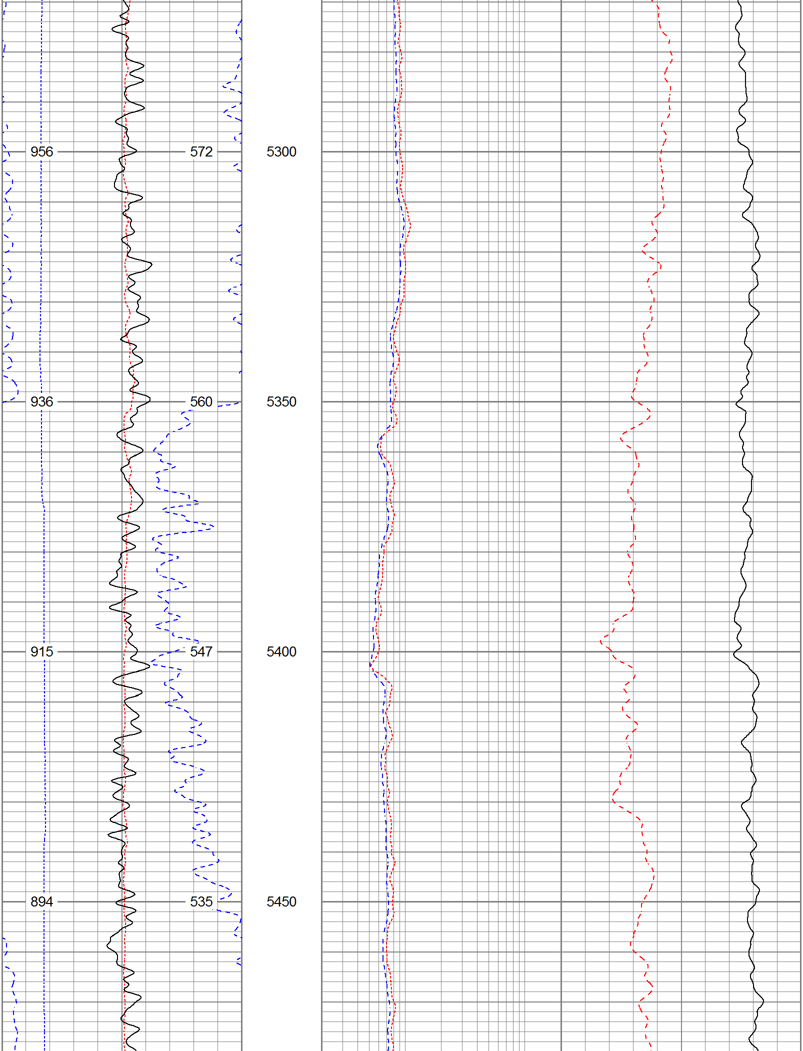
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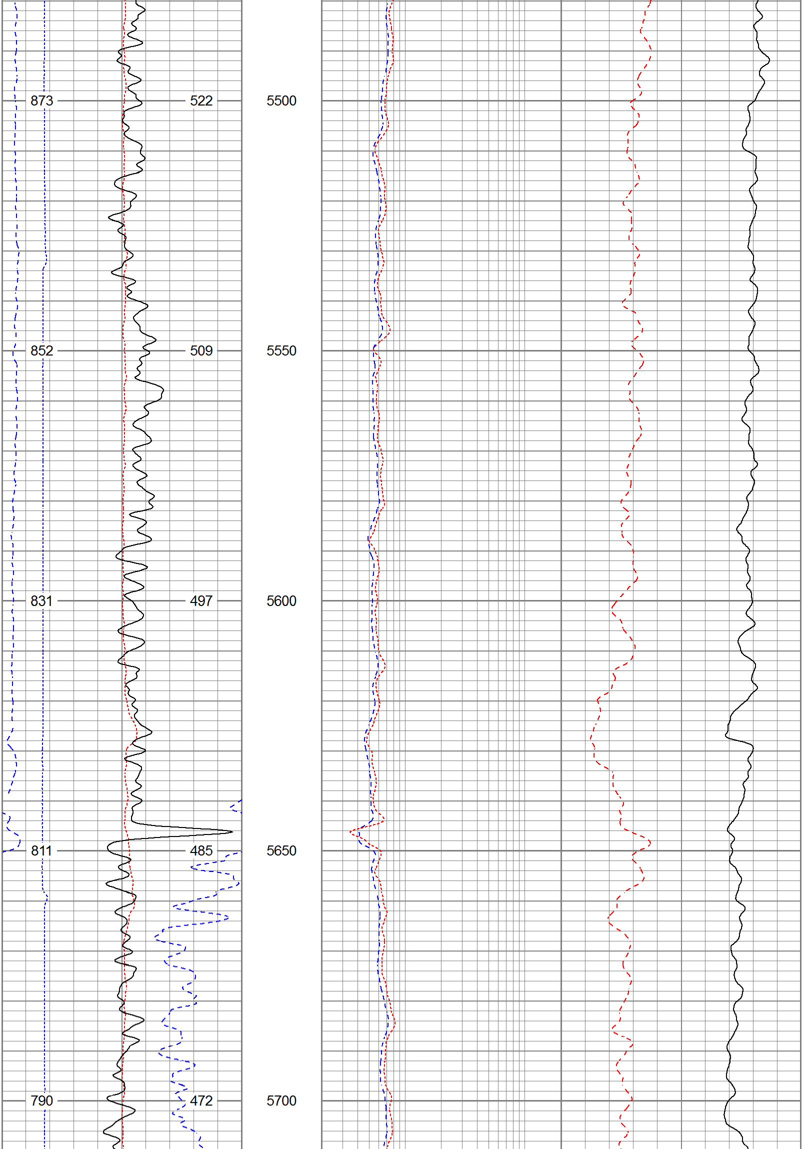
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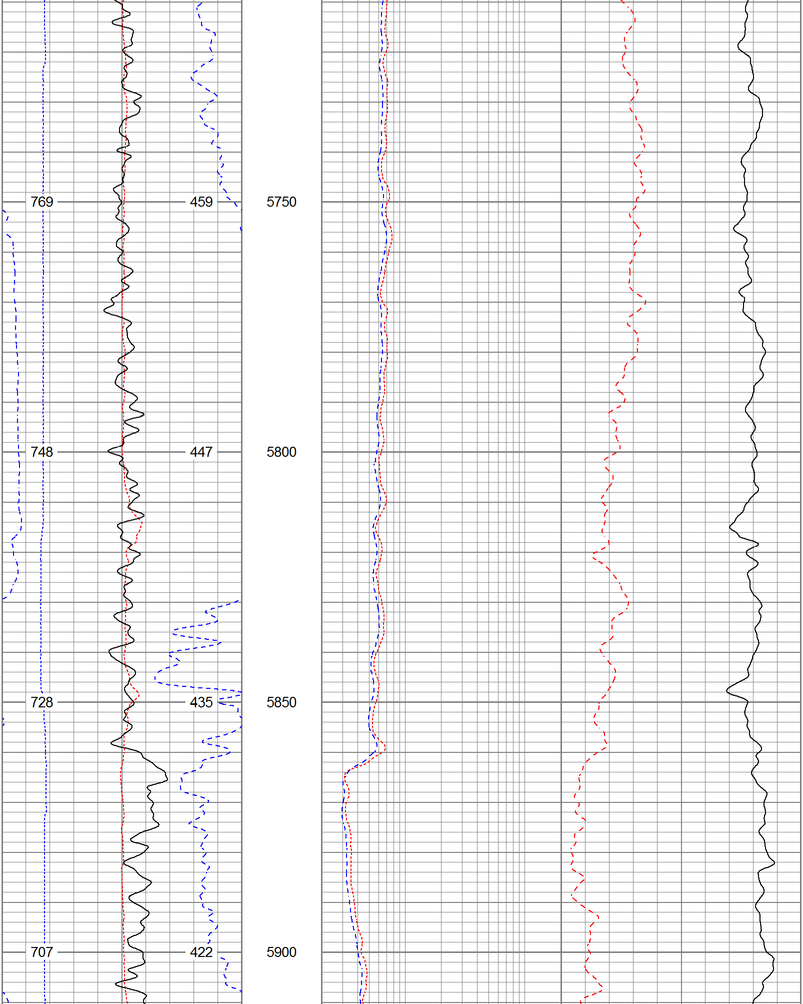
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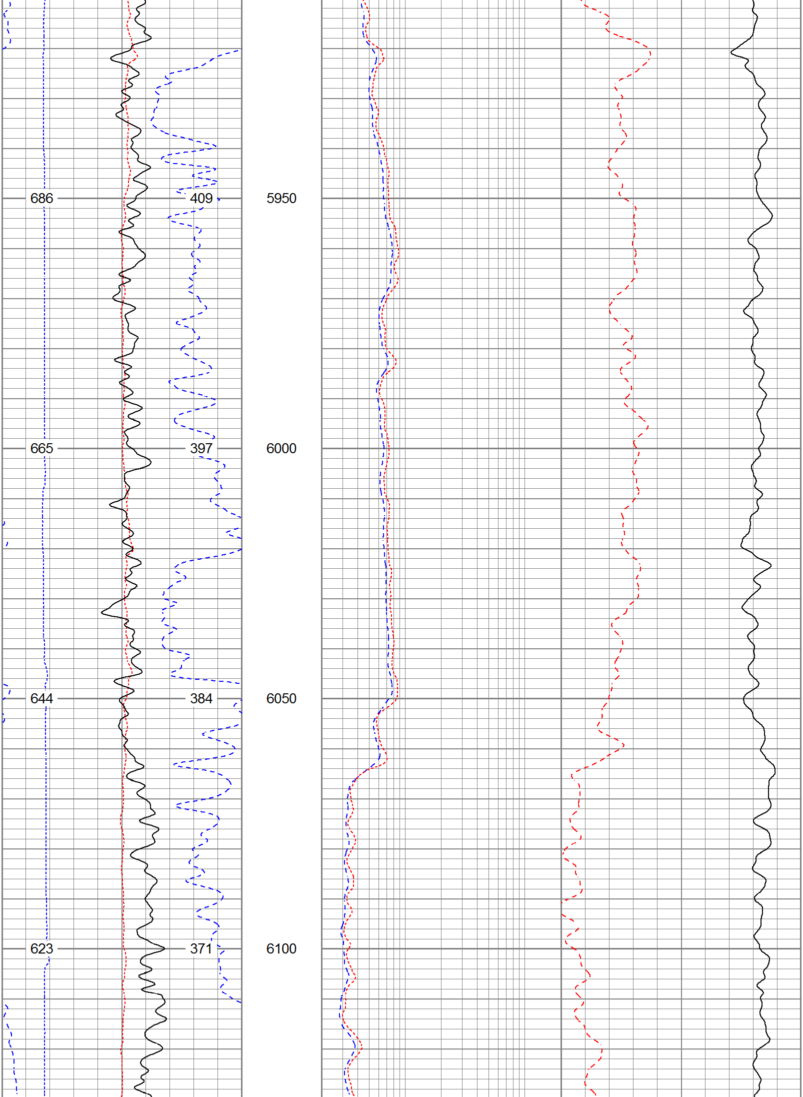
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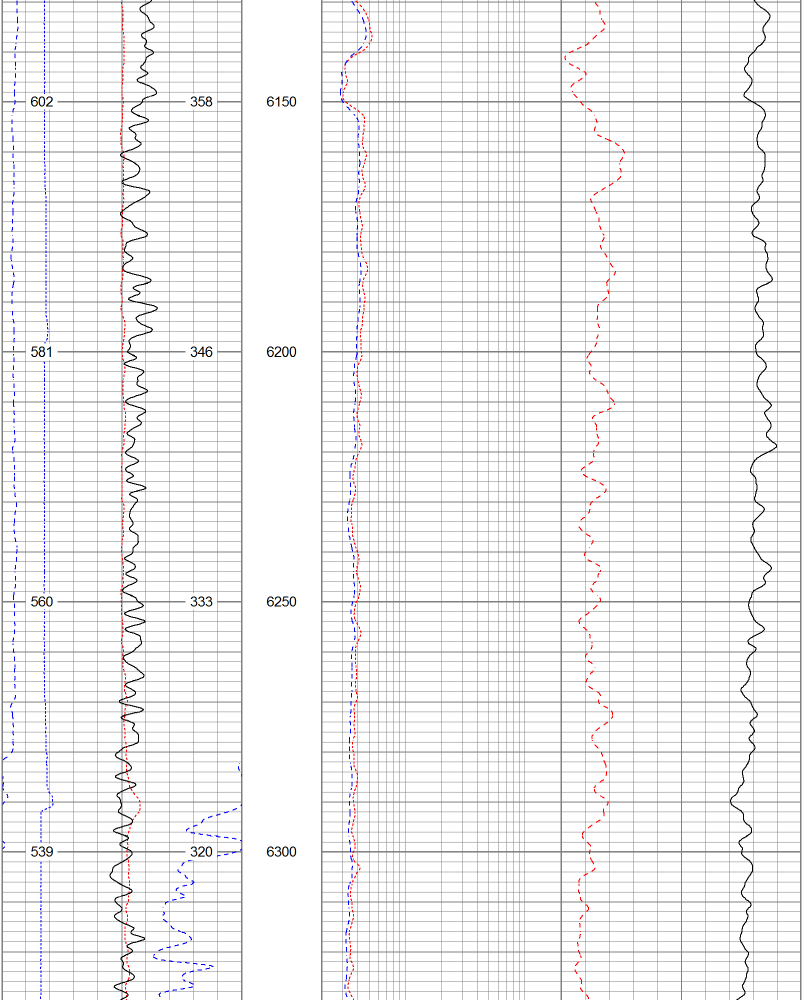
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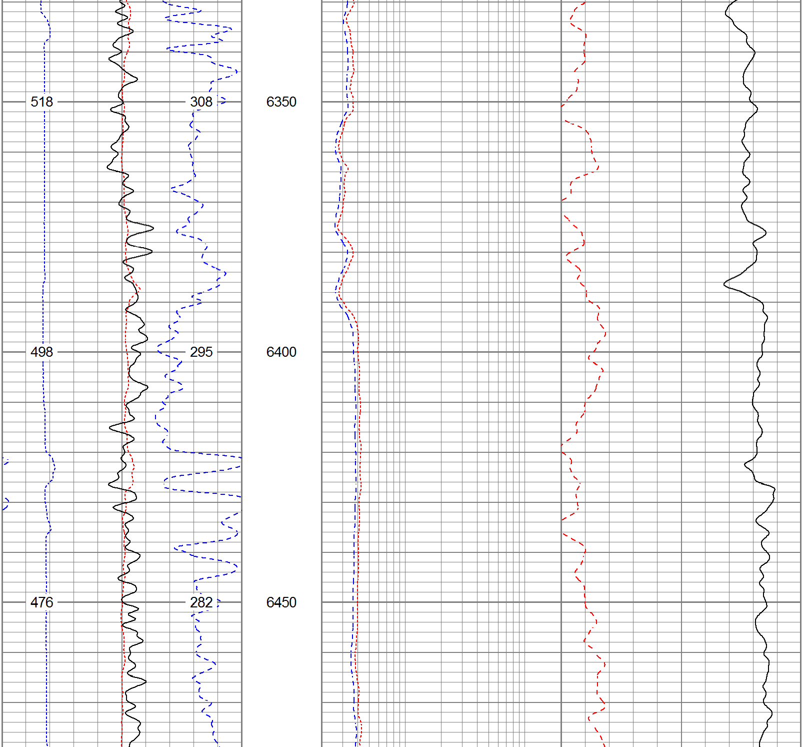
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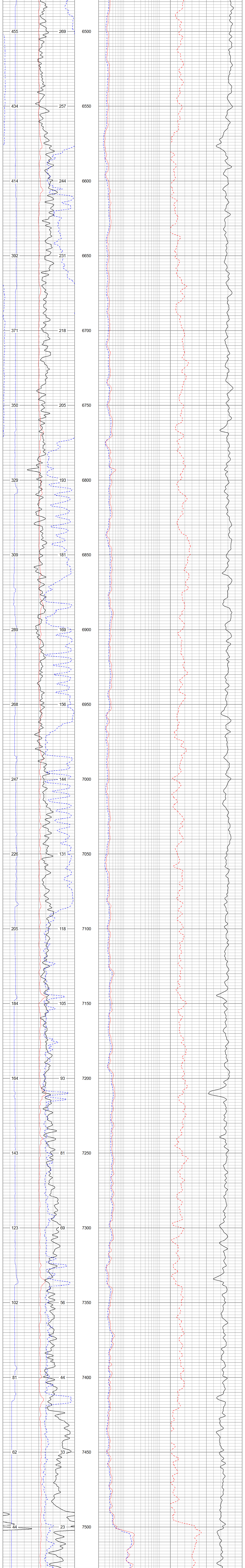

Pioneer Energy Services

MAIN PASS

Database File 2-013995.db
Dataset Pathname pass2.2
Presentation Format cdl
Dataset Creation Wed Aug 12 11:54:15 2015
Charted by Depth in Feet scaled 1:240

Calibration Report

Database File 2-013995.db
Dataset Pathname pass2
Dataset Creation Wed Aug 12 10:25:23 2015

Dual Induction Calibration Report

Serial-Model: 1011-PSI
Surface Cal Performed:

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	0.000	1.000	0.000	1.000	mmho/m	0.580	-28.000
Medium	0.000	1.000	0.000	1.000	mmho/m	0.490	-21.000

Compensated Density Calibration Report

Serial-Model: 998-PSI
Source / Verifier: 52 / PSI
Master Calibration Performed: Thu Jul 30 13:50:47 2015
Before Survey Verification Performed:
After Survey Verification Performed:

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	5781.01	7666.81	cps
Aluminum	2.690	g/cc	1082.67	4886.43	cps

Spine Angle = 74.95 Density/Spine Ratio = 0.542

	Size		Reading
Small Ring	6.20	in	1.67
Large Ring	19.85	in	1.38

Compensated Neutron Calibration Report

Serial Number: 856
Tool Model: PSI

CALIBRATION

Detector	Readings		Target		Normalization
Short Space	1.00	cps	1.00	cps	1.9000
Long Space	1.00	cps	1.00	cps	2.1500

Gamma Ray Calibration Report

Serial Number: 939
Tool Model: PSI
Performed: Thu Jul 30 13:50:58 2015

Calibrator Value: 150.0 GAPI

Background Reading: 45.0 cps
Calibrator Reading: 295.0 cps

Sensitivity: 0.6000 GAPI/cps

PIONEER
Pioneer Energy Services

Company	EXTRACTION OIL AND GAS
Well	TROUDT 6
Field	WATTENBERG
County	WELD
State	CO