PIONEER
Pioneer Energy Services

DUAL COMP POROSITY LOG

Company BECKER OIL CORPORATION
Well SCHROEDER #1 'A'
Field JETMORE SOUTH
County HODGEMAN State KANSAS
Location: API #: 15-083-21937-00-00
1300' FNL & 2400' FWL
SEC 11 TWP 23S RGE 24W

Other Services
DIL/MEL

Elevation
K.B. 2299'
D.F. N/A
G.L. 2294'

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Permanent Datum	GROUND LEVEL
Elevation	2294'
Log Measured From	KELLY BUSHING
Drilling Measured From	KELLY BUSHING

Date	7/13/2017
Run Number	ONE
Type Log	CNL/CDL
Depth Driller	4620'
Depth Logger	4624'
Bottom Logged Interval	4595'
Top Logged Interval	3750'
Type Fluid In Hole	CHEMICAL
Salinity, PPM CL	5200
Density	9.4
Level	FULL
Max. Rec. Temp. F	122
Operating Rig Time	3 HOURS
Equipment -- Location	91 HAYS
Recorded By	D. SCHMIDT
Witnessed By	CLYDE BECKER

Borehole Record

Run No.	Bit	From	To
ONE	12.25"	0'	219'
TWO	7.875"	219'	TD

Casing Record

Size	Wgt.	From	To
8.625"	23#	0'	219'

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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

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

JETMORE,
1 3/4 WEST ON L RD, SOUTH INTO

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneeres.com 785-625-3858

Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: D. SCHMIDT	Primary Witness: CLYDE BECKER
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Log Variables

Database C:\ProgramData\Warrior\Data\becker_schroeder 1-a.db
Dataset field/well/stkml/pass3.8/_vars_

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	210	0

SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	80	0	5.5	0	0	122	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			GR-M&W (89)	3.00	3.50	50.00
GR	40.58					
CNLSC	37.48		CNT-M&W (207-MW)	5.50	3.50	100.00
CNSSC	36.73					
			CDL-M&W (90-1031)	8.50	4.00	250.00
LSD	28.43					
DCAL	28.42					
SSD	27.93					
			ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics	7.58	4.00	65.00
MCAL	19.83					
MI	19.83					
MN	19.83					
RLL3F	15.80					
RLL3	15.80					

CILD	8.00	DIL-M&W (PSI 91)	18.50	3.50	220.00
CILM	4.70				
SP	0.20				

Dataset: becker_schroeder 1-a.db: field/well/stkml/pass3.8
Total length: 43.08 ft
Total weight: 685.00 lb
O.D.: 4.00 in

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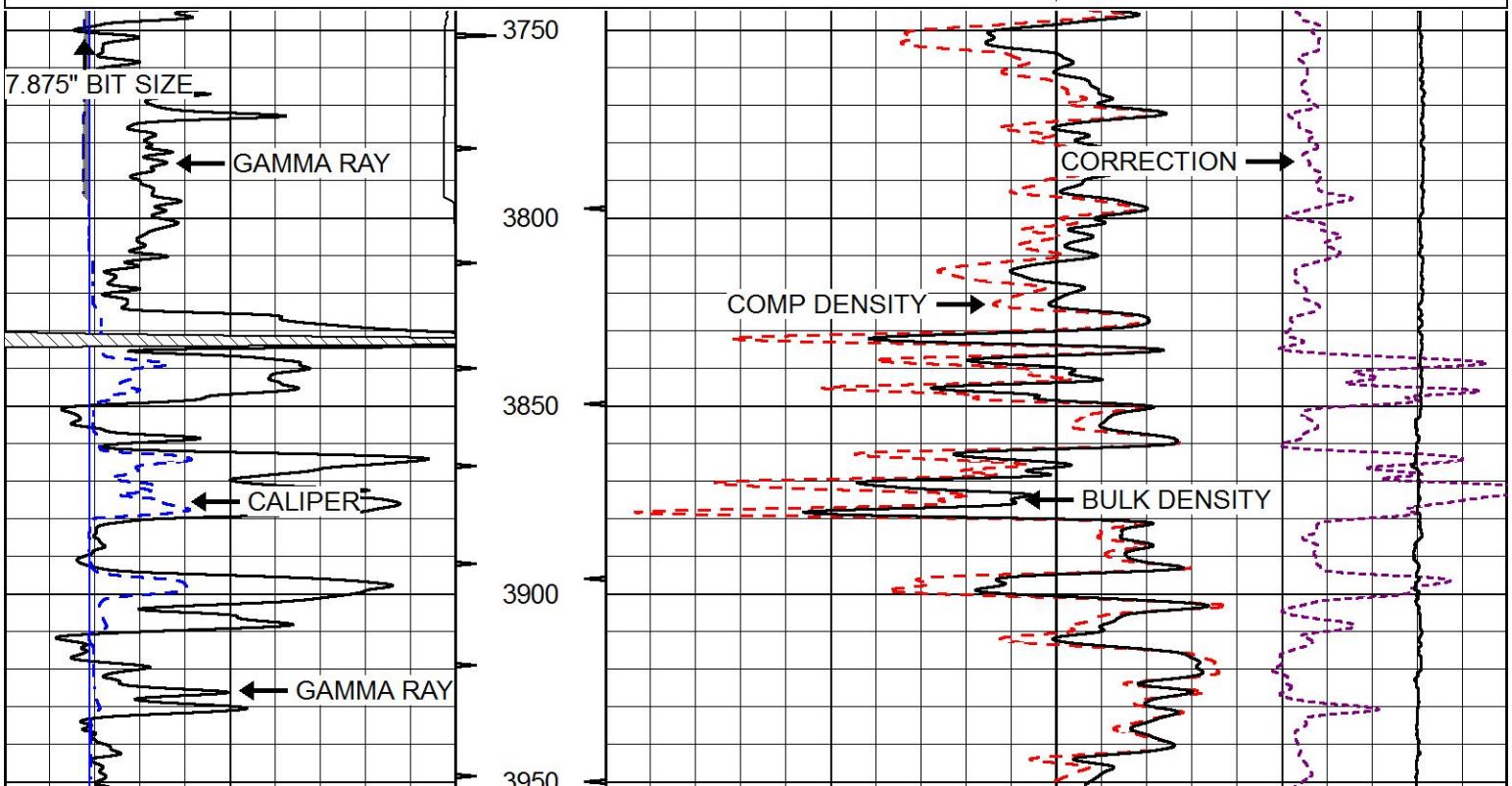
MAIN PASS

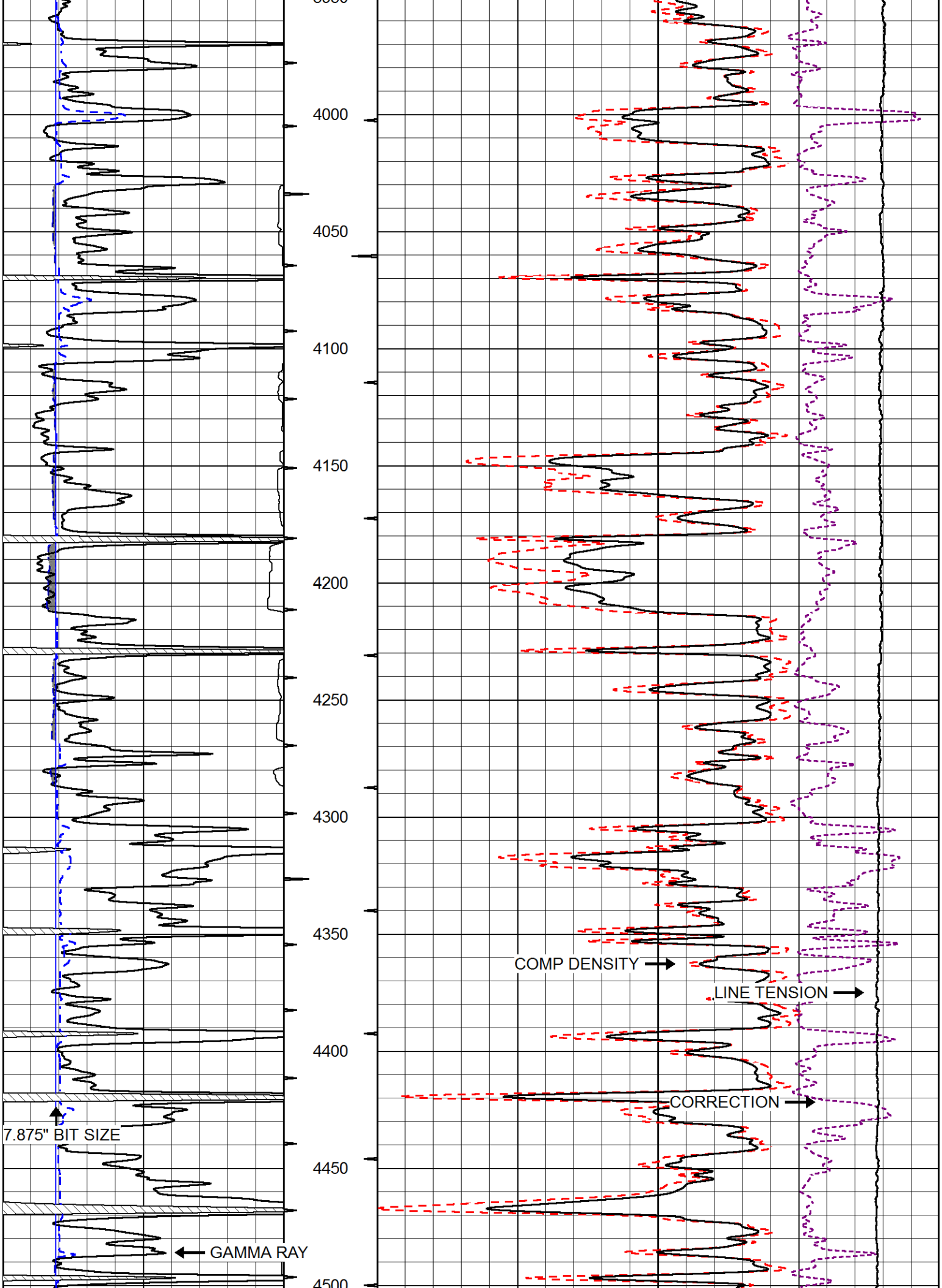
Database File	becker_schroeder 1-a.db
Dataset Pathname	stkml/pass3.8
Presentation Format	cdl
Dataset Creation	Thu Jul 13 14:58:15 2017
Charted by	Depth in Feet scaled 1:600

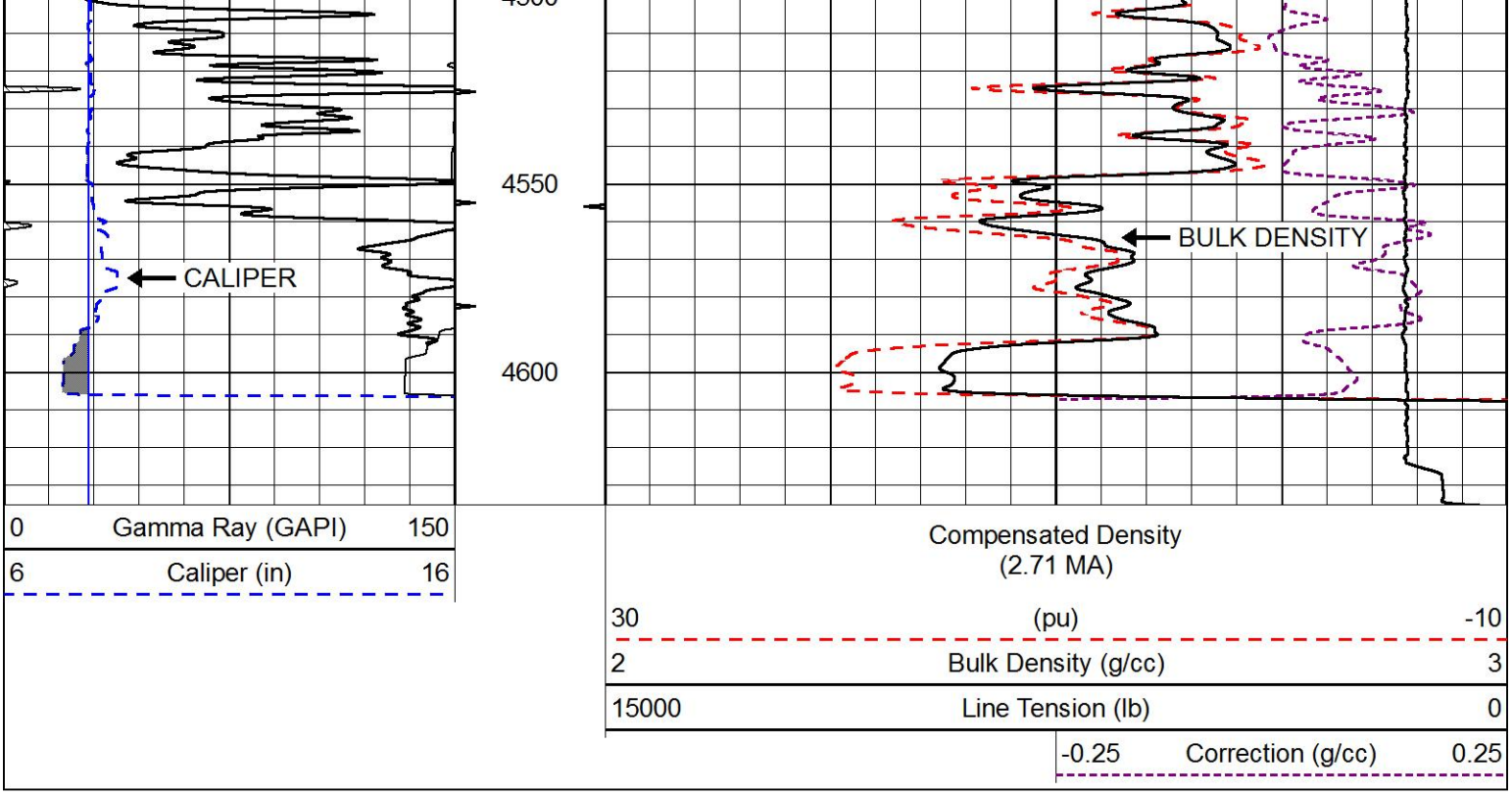
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

Compensated Density
(2.71 MA)

30	(pu)	-10
2	Bulk Density (g/cc)	3
15000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25




4000
4050
4100
4150
4200
4250
4300
4350
4400
4450
4500
COMP DENSITY
LINE TENSION
CORRECTION
7.875" BIT SIZE
GAMMA RAY



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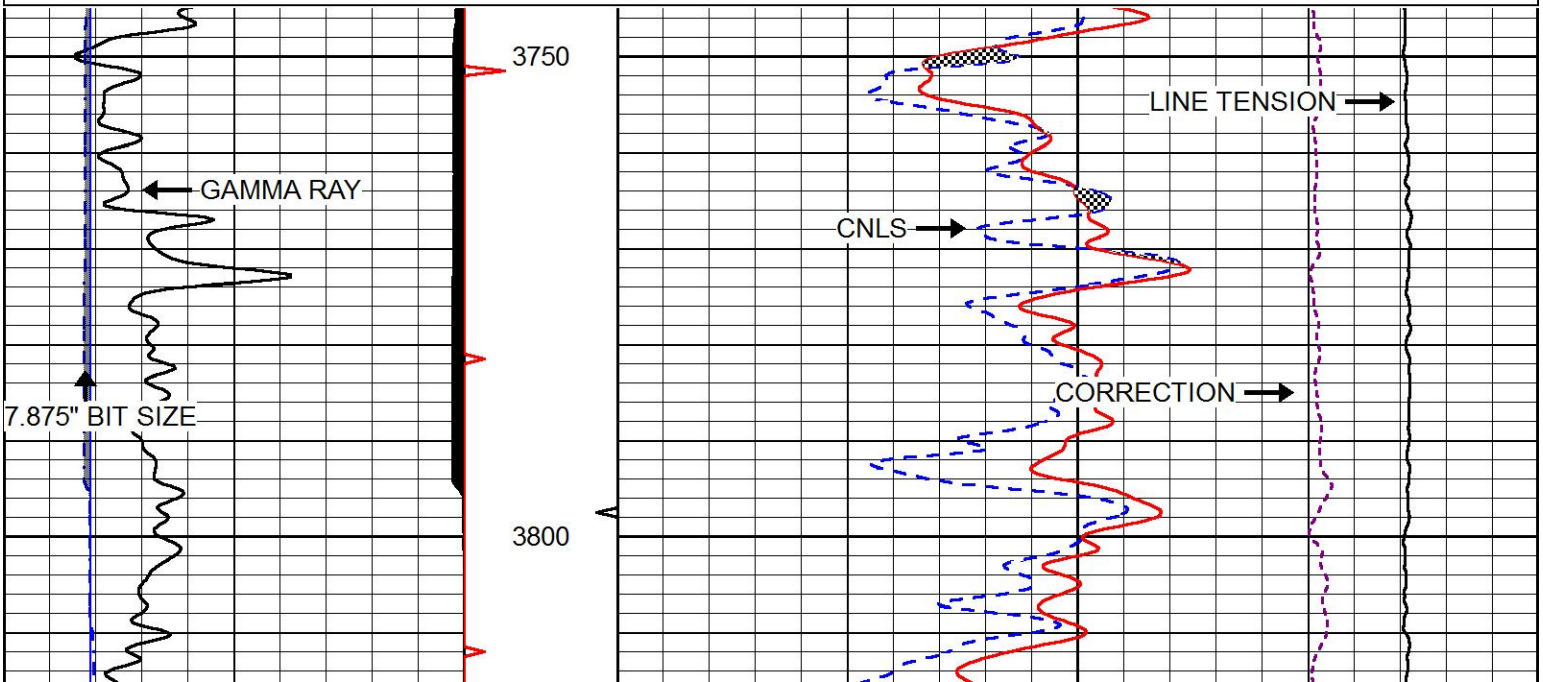
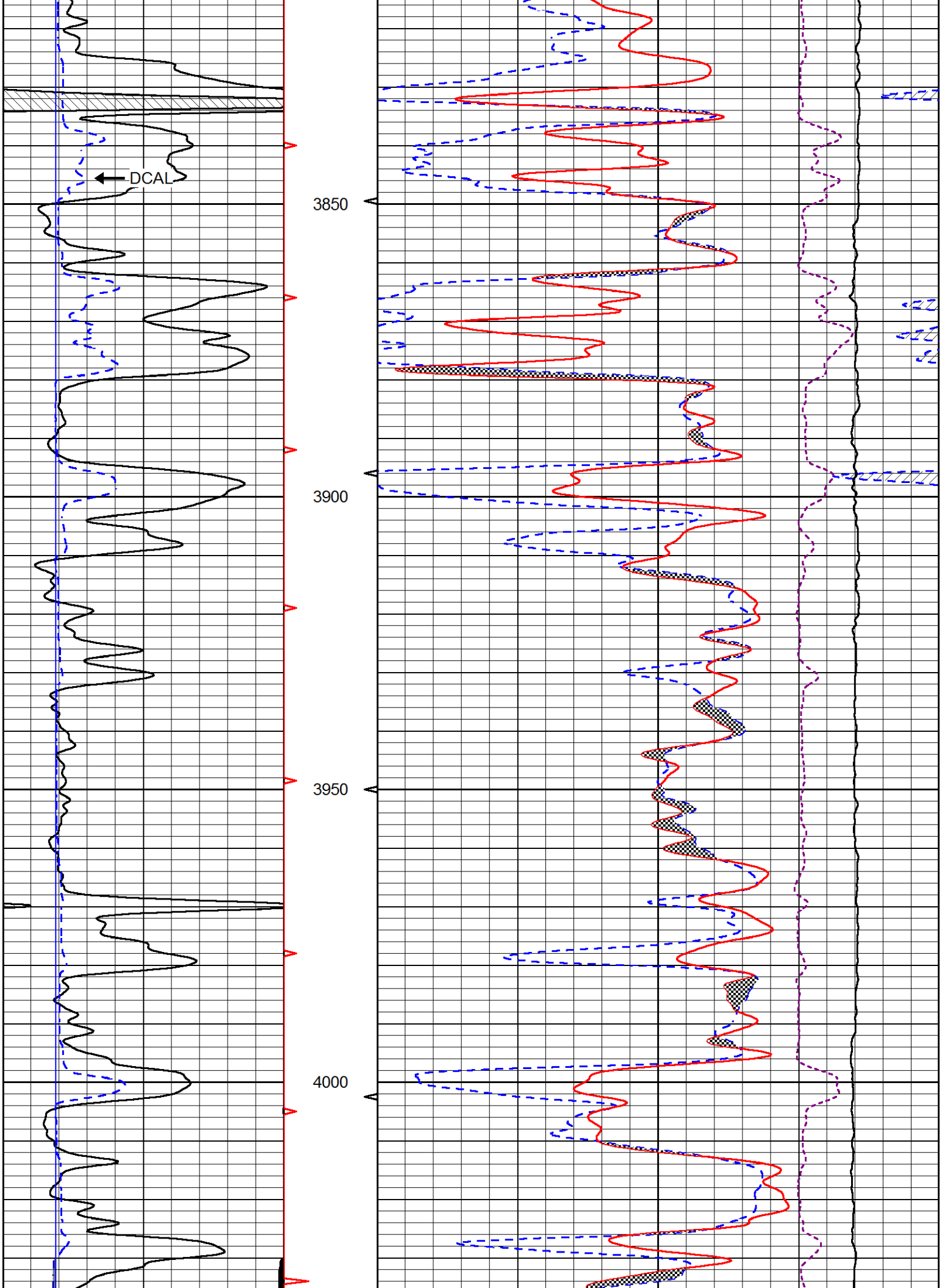
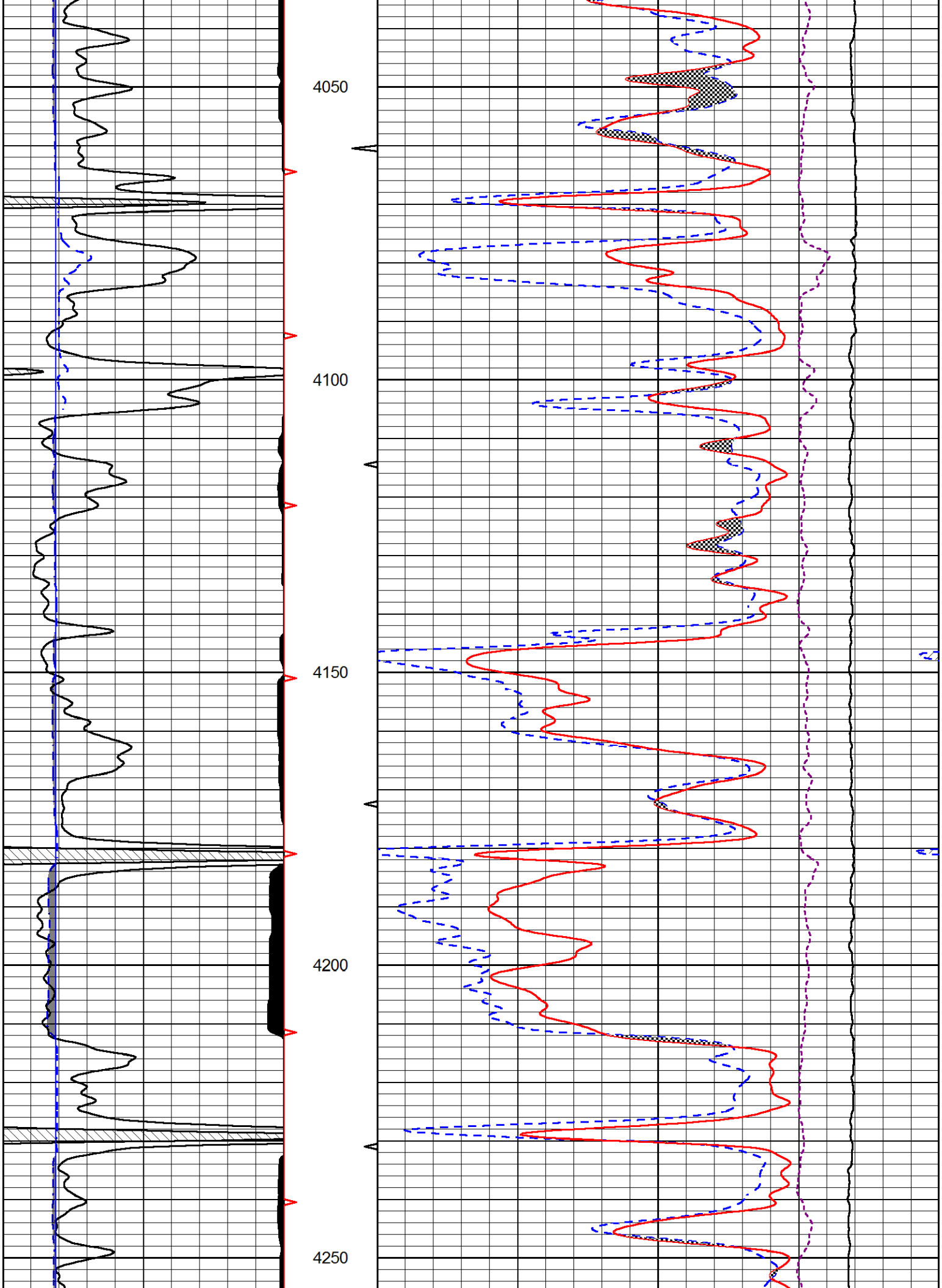
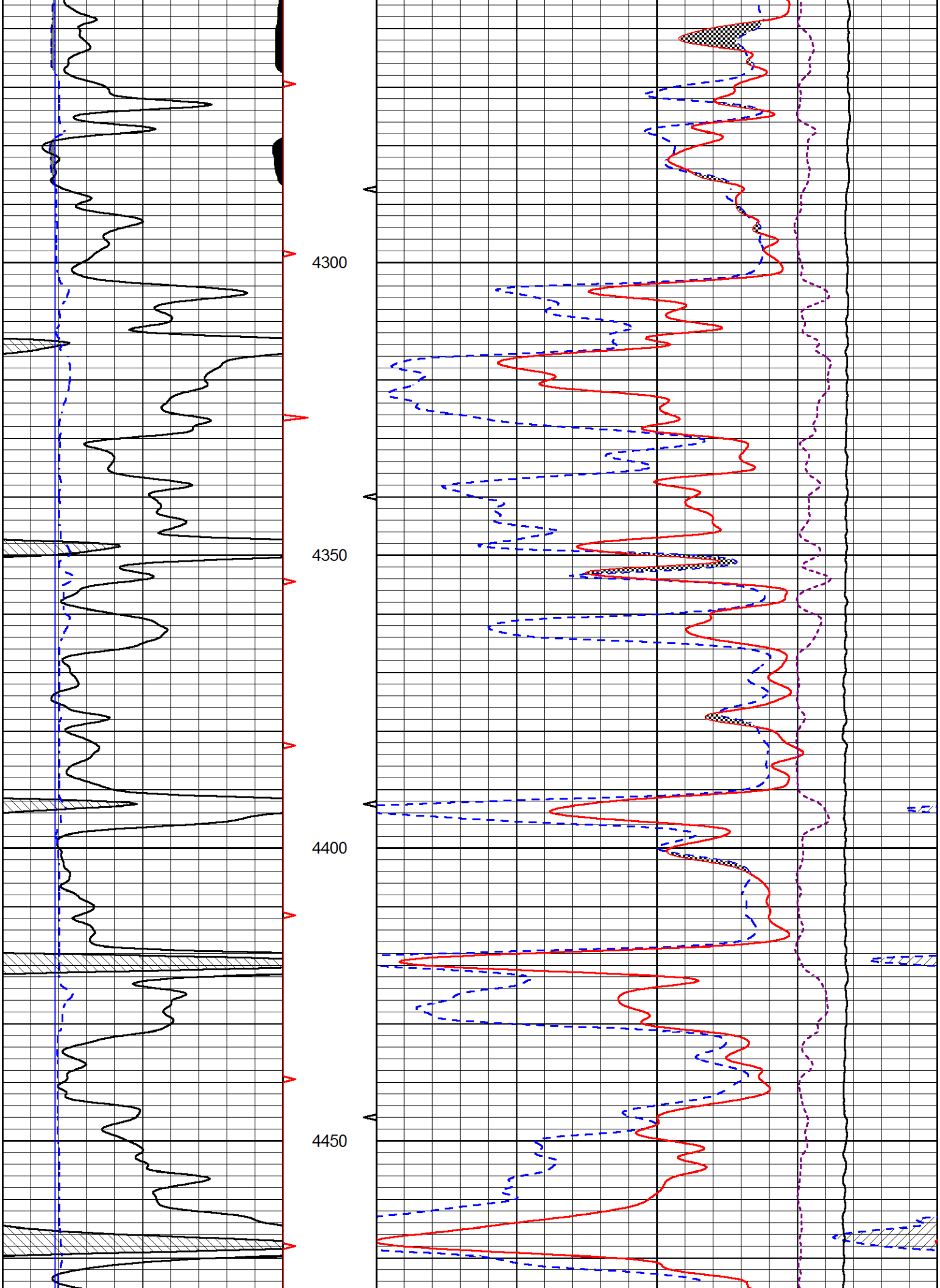
MAIN PASS

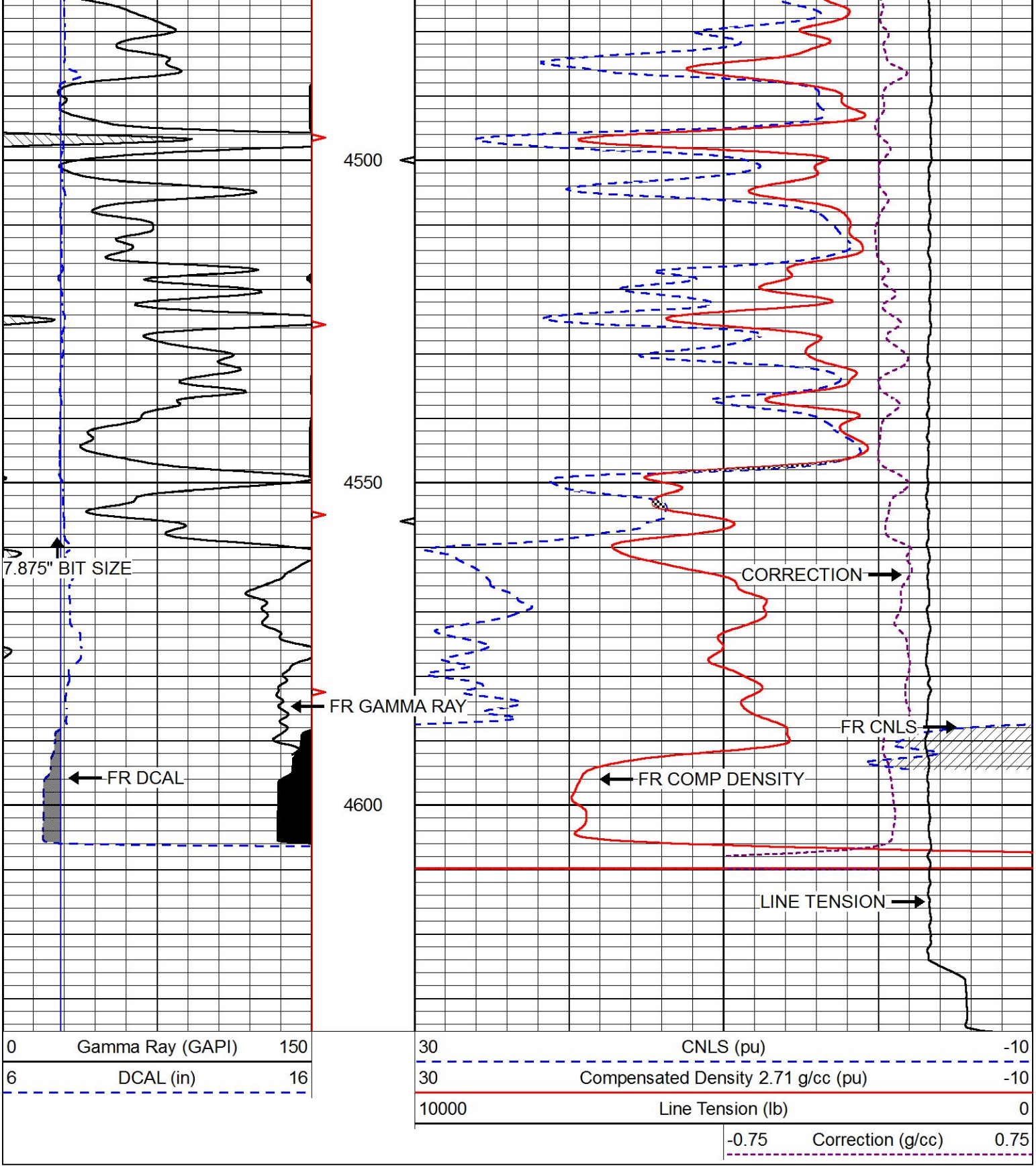
Database File	becker_schroeder 1-a.db
Dataset Pathname	stkml/pass3.8
Presentation Format	cndlspec
Dataset Creation	Thu Jul 13 14:58:15 2017
Charted by	Depth in Feet scaled 1:240




DCAL
3850
3900
3950
4000


4050
4100
4150
4200
4250


4300
4350
4400
4450



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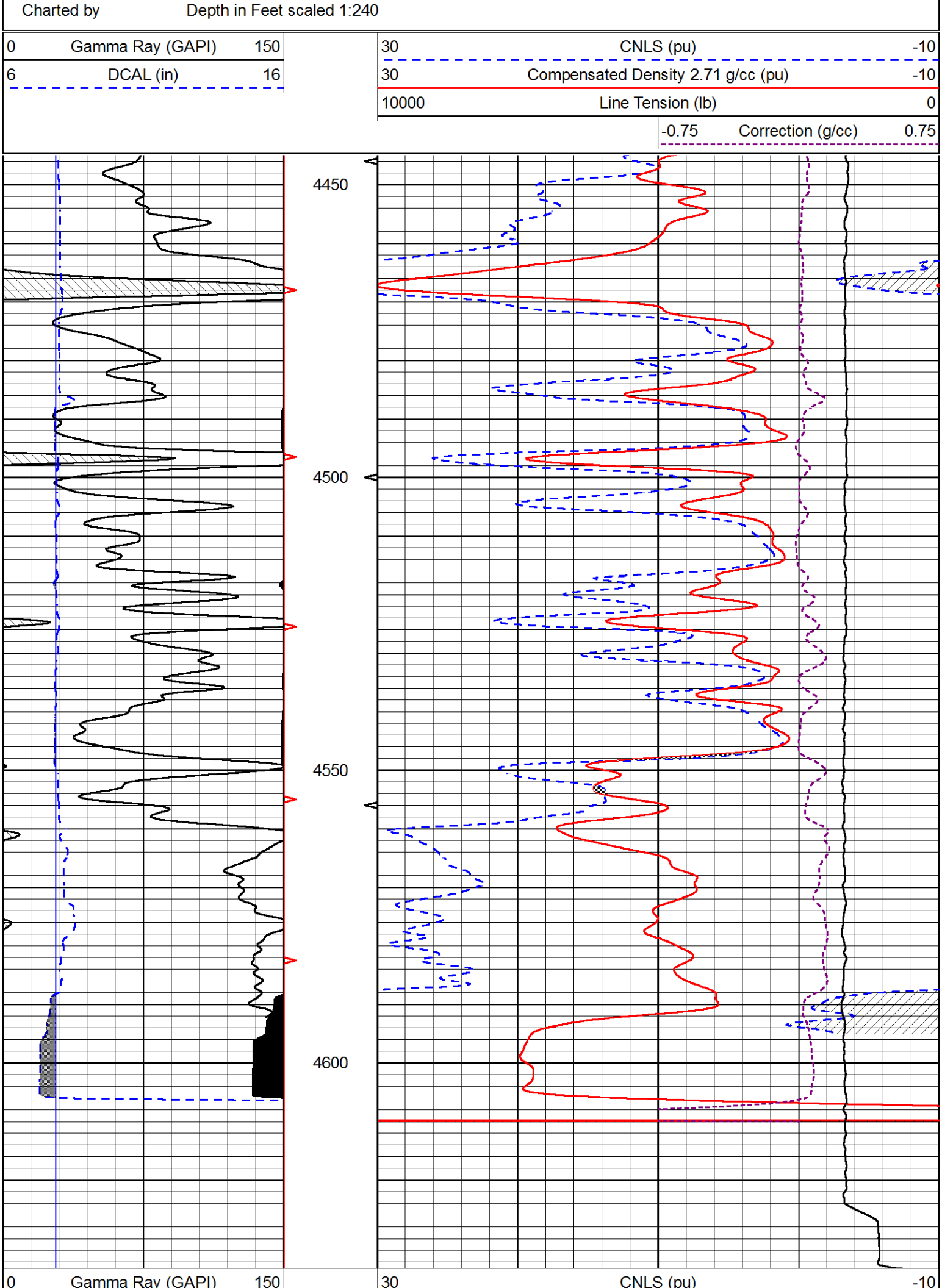
REPEAT SECTION

Database File	becker_schroeder 1-a.db
Dataset Pathname	stkml/pass2.1
Presentation Format	cndlspec
Dataset Creation	Thu Jul 13 14:59:46 2017


Charted by
Depth in Feet scaled 1:240
0 Gamma Ray (GAPI) 150
6 DCAL (in) 16
30 CNLS (pu) -10
30 Compensated Density 2.71 g/cc (pu) -10
10000 Line Tension (lb) 0
-0.75 Correction (g/cc) 0.75
4450
4500
4550
4600
0 Gamma Ray (GAPI) 150
30 CNLS (pu) -10

6	DCAL (in)	16

30	Compensated Density 2.71 g/cc (pu)	-10
10000	Line Tension (lb)	0
-0.75	Correction (g/cc)	0.75

Calibration Report

Database File	becker_schroeder 1-a.db
Dataset Pathname	stkml/pass3.8
Dataset Creation	Thu Jul 13 14:58:15 2017

Dual Induction Calibration Report

Serial-Model:	PSI 91-M&W
Calibration Performed:	Thu Jul 13 13:00:25 2017

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep	166.796	835.089	0.000	255.800	mmho/m	0.430	-30.500
Medium	142.009	1348.560	0.000	255.800	mmho/m	0.360	-31.000

Microlog Calibration Report

Serial-Model:	PSI-01-PSIML
Performed:	Thu Jul 13 13:00:38 2017

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	25000.0000	-1.0000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	30000.0000	-0.8000
Caliper	1.0001	1.1397	6.5000	18.5000	in	100.0000	-97.1500

Compensated Density Calibration Report

Serial-Model:	90-1031-M&W
Source / Verifier:	16955B / 2ci
Master Calibration Performed:	Thu Jul 13 13:00:48 2017

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4903.44	6153.79	cps
Aluminum	2.695	g/cc	934.50	4021.31	cps

Spine Angle = 75.61

Density/Spine Ratio = 0.549

	Size		Reading
Small Ring	8.00	in	1.84
Large Ring	22.00	in	1.46

Compensated Neutron Calibration Report

Serial Number:	207-MW
Tool Model:	M&W
Calibration Performed:	Sat Jun 17 10:30:30 2017

Detector	Readings		Target		Normalization
Short Space	6240.00	cps	1000.00	cps	1.6025
Long Space	460.00	cps	1000.00	cps	1.9500

Gamma Ray Calibration Report

Serial Number:	89	
Tool Model:	M&W	
Calibration Performed:	Thu Jul 13 13:01:02 2017	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps

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