

DUAL COMPENSATED
POROSITY /
MICRO LOG

Company Shakespeare Oil Co., Inc.

Well
Otley #3-21

Field Chalk Buttes

County Logan State Kansas

Location: API #: 15-109-21618-00-00

SW/4

SEC 21 TWP 14S RGE 32W

	Permanent Datum	Ground Level
1	87.00	86.95
2	87.00	86.95
3	87.00	86.95
4	87.00	86.95
5	87.00	86.95
6	87.00	86.95
7	87.00	86.95
8	87.00	86.95
9	87.00	86.95
10	87.00	86.95
11	87.00	86.95
12	87.00	86.95
13	87.00	86.95
14	87.00	86.95
15	87.00	86.95
16	87.00	86.95
17	87.00	86.95
18	87.00	86.95
19	87.00	86.95
20	87.00	86.95
21	87.00	86.95
22	87.00	86.95
23	87.00	86.95
24	87.00	86.95
25	87.00	86.95
26	87.00	86.95
27	87.00	86.95
28	87.00	86.95
29	87.00	86.95
30	87.00	86.95
31	87.00	86.95
32	87.00	86.95
33	87.00	86.95
34	87.00	86.95
35	87.00	86.95
36	87.00	86.95
37	87.00	86.95
38	87.00	86.95
39	87.00	86.95
40	87.00	86.95
41	87.00	86.95
42	87.00	86.95
43	87.00	86.95
44	87.00	86.95
45	87.00	86.95
46	87.00	86.95
47	87.00	86.95
48	87.00	86.95
49	87.00	86.95
50	87.00	86.95
51	87.00	86.95
52	87.00	86.95
53	87.00	86.95
54	87.00	86.95
55	87.00	86.95
56	87.00	86.95
57	87.00	86.95
58	87.00	86.95
59	87.00	86.95
60	87.00	86.95
61	87.00	86.95
62	87.00	86.95
63	87.00	86.95
64	87.00	86.95
65	87.00	86.95
66	87.00	86.95
67	87.00	86.95
68	87.00	86.95
69	87.00	86.95
70	87.00	86.95
71	87.00	86.95
72	87.00	86.95
73	87.00	86.95
74	87.00	86.95
75	87.00	86.95
76	87.00	86.95
77	87.00	86.95
78	87.00	86.95
79	87.00	86.95
80	87.00	86.95
81	87.00	86.95
82	87.00	86.95
83	87.00	86.95
84	87.00	86.95
85	87.00	86.95
86	87.00	86.95
87	87.00	86.95
88	87.00	86.95
89	87.00	86.95
90	87.00	86.95
91	87.00	86.95
92	87.00	86.95
93	87.00	86.95
94	87.00	86.95
95	87.00	86.95
96	87.00	86.95
97	87.00	86.95
98	87.00	86.95
99	87.00	86.95
100	87.00	86.95

Drilling Measured From Kelly Bushing

Elevation 2721'

G.L. 2712

Date	5/9/2021
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Run Number	One
Type Log	CNL / CDL / ML

Depth Driller	4450'
Depth Logger	4453'

Bottom Logged Interval	4452'
Top Logged Interval	3500'

Type Fluid In Hole	Chemical
Salinity, PPM CL	4400
	2.8

Density	9.3
Level	Full

Max. Rec. Temp. F	121
Operating Rig Time	5 Hours
Equipment Section	P 408 11

Equipment -- Location	F-108	H
Recorded By	D. Schmidt	
Witnessed By	Kent Mats	

Willemseu by	Neill Mals
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Run No.	Bit	From	To
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One	12.25"	0'	255'
Two	7.875"	255'	TD

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

Oakley,
South on Hwy 83 to Jayhawk Rd,
1/2 West to 430 Rd, 1/2 South, 1/2 West, 1/4 South,
West to location

Log Measured From: Kelly Bushing 9 Ft. Above Permanent Datum

THANK YOU FOR USING Midwest Wireline LLC
785-625-3858

Your Midwest Wireline Crew

This Log Record Was Witnessed By

Engineer: D. Schmidt

Primary Witness: Kent Matson

Operator:

Secondary Witness:

Operator:

Secondary Witness:

Operator:

Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\shakespeare_ottley 3-21.db
Dataset field/well/stkml/pass4.1/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 121	in 5.5	in 0	g/cc 1	2	g/cc 2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	No	mmho/m 0	mmho/m 0	mV 245	degF 70	Off	ft 4453

Variable Description

A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
MATRXDEN : Matrix Density

NPORSEL : Neutron Porosity Curve Select
PERFS : Perforation Flag
SNDERR : Deep Sonde Error Correction
SNDERRM : Medium Sonde Error Correction
SPSHIFT : S.P. Baseline Offset
SRFTEMP : Surface Temperature
SZCOR : CN Size Cor. ?
TDEPTH : Total Depth



2" SCALE BULK DENSITY

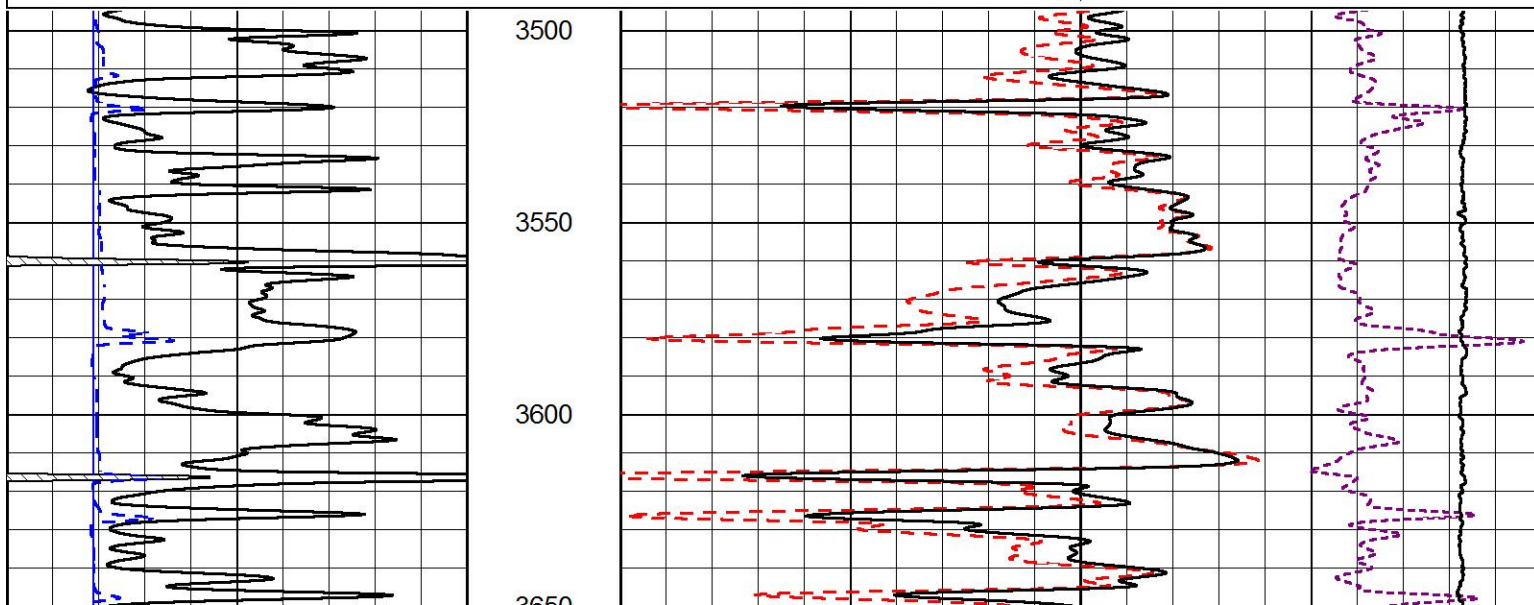
MAIN PASS

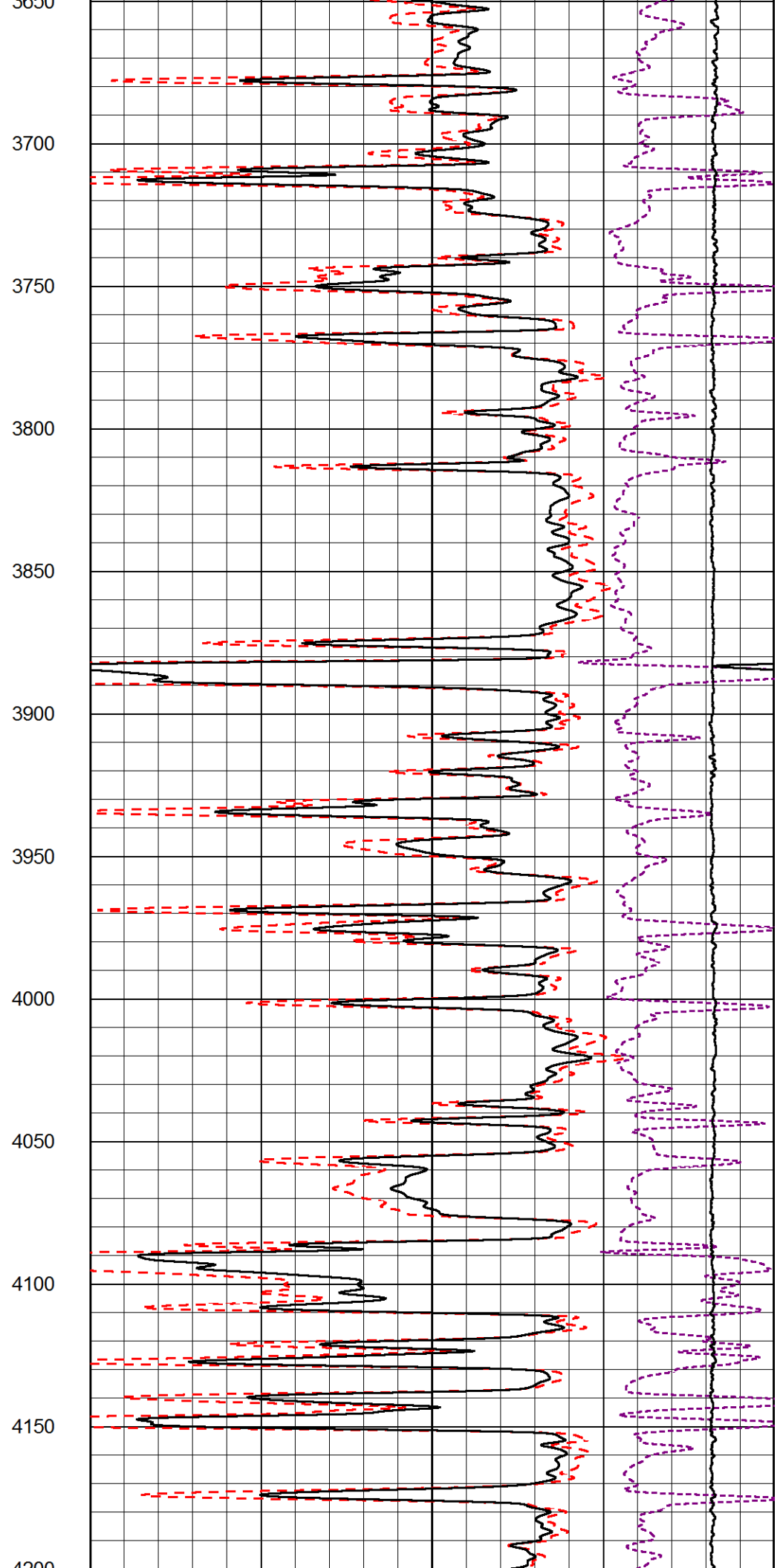
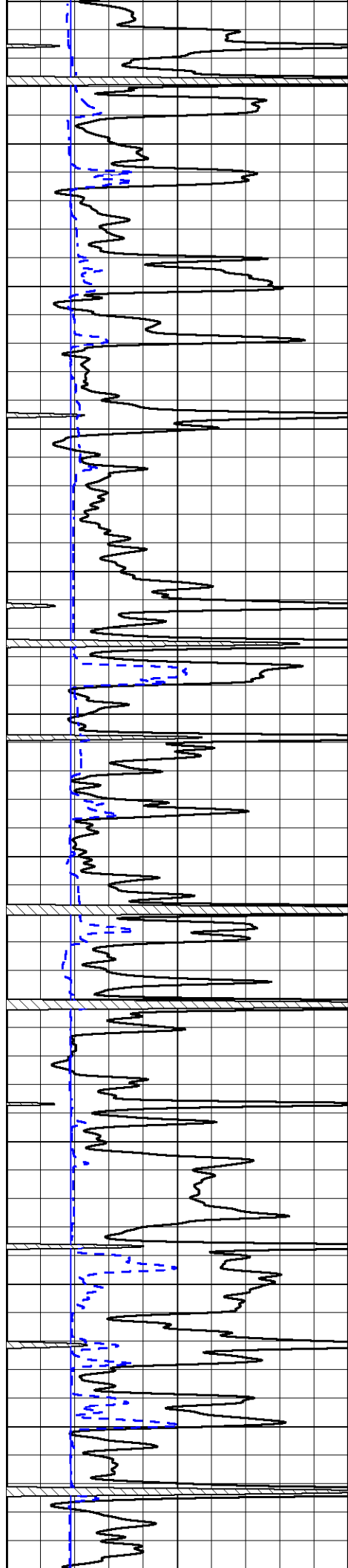
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Presentation Format _cdl
Dataset Creation Sun May 09 18:12:20 2021
Charted by Depth in Feet scaled 1:600

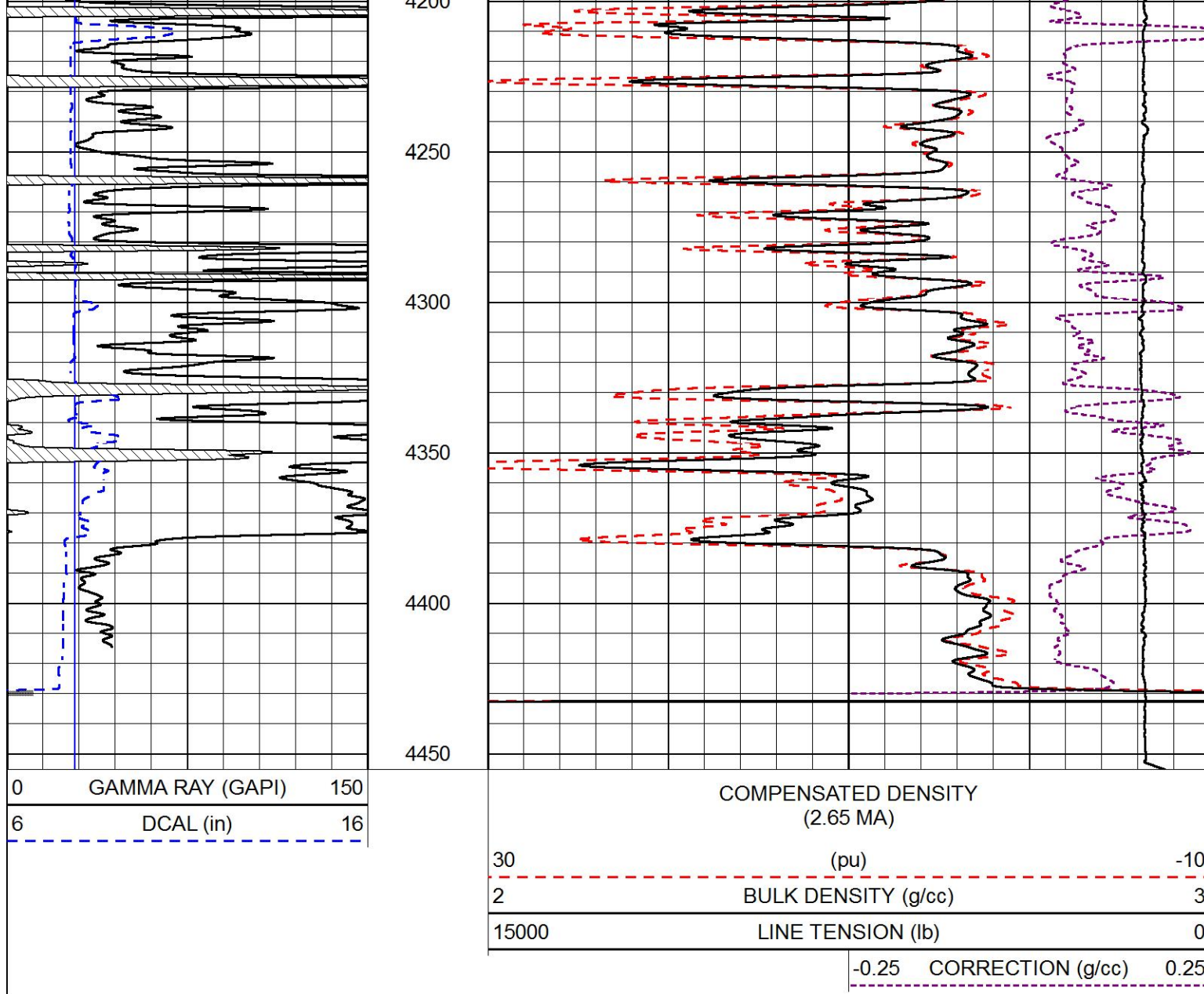
0	GAMMA RAY (GAPI)	150
6	DCAL (in)	16

COMPENSATED DENSITY (2.65 MA)

30	(pu)	-10
2	BULK DENSITY (g/cc)	3
15000	LINE TENSION (lb)	0
-0.25	CORRECTION (g/cc)	0.25



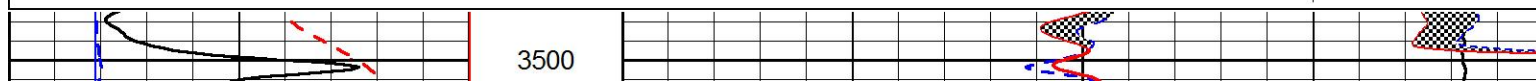
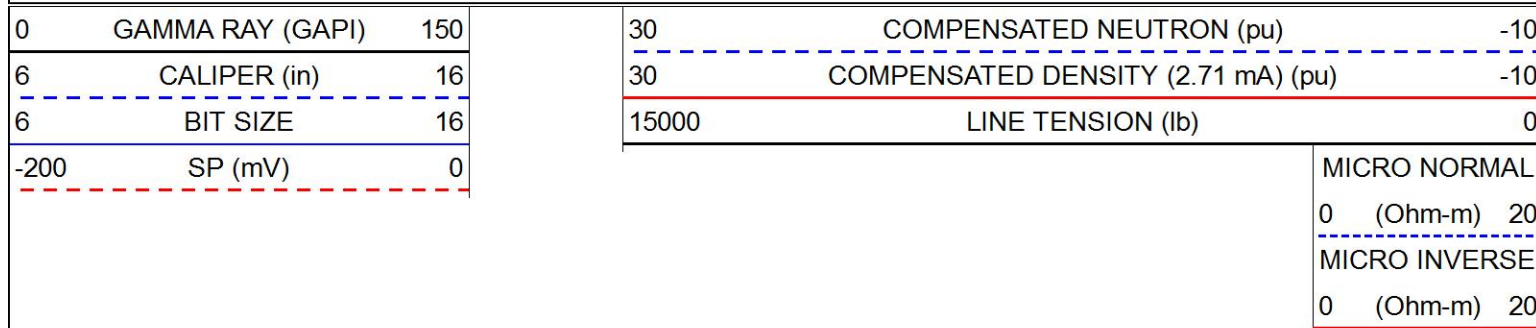


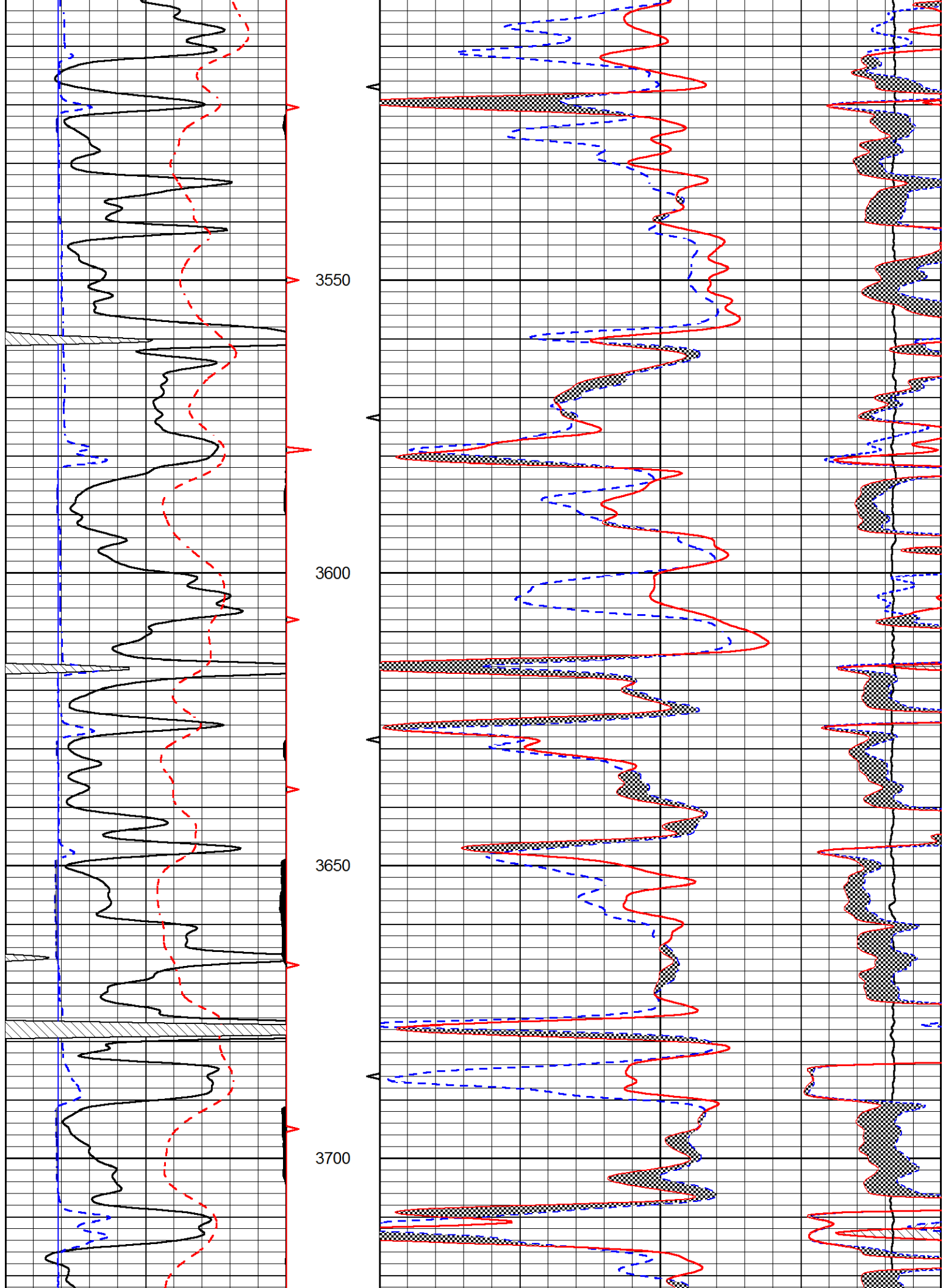


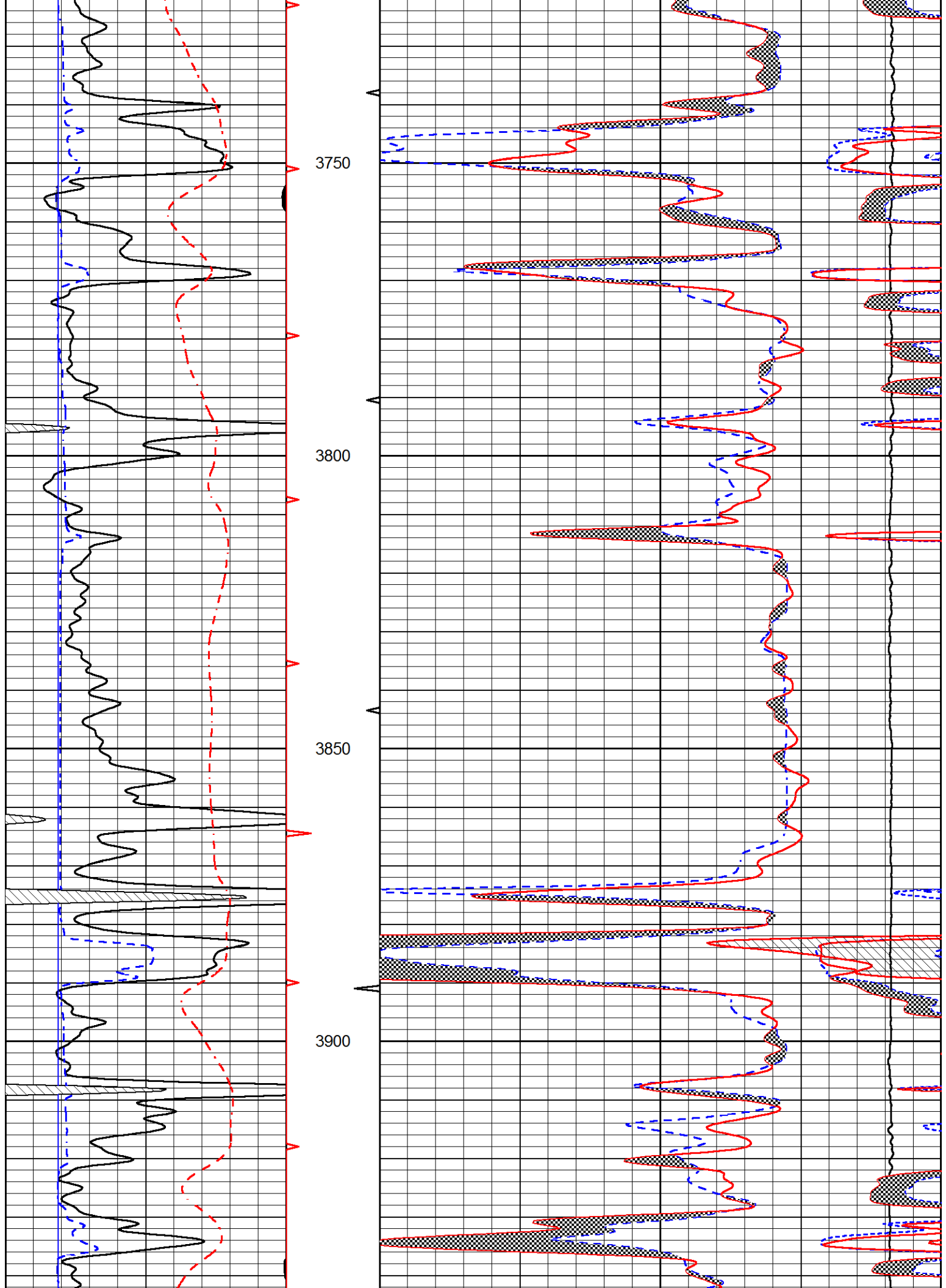
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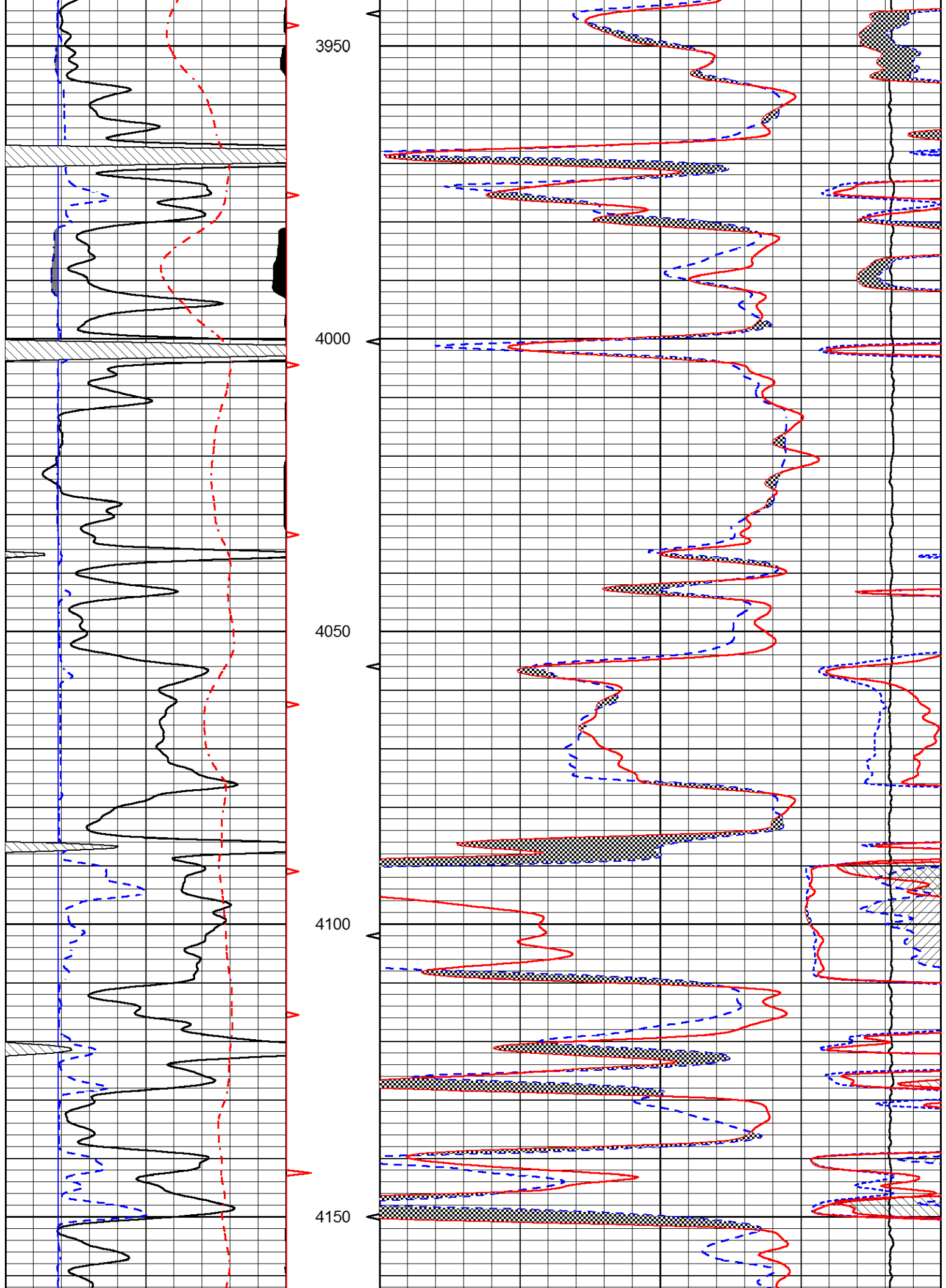
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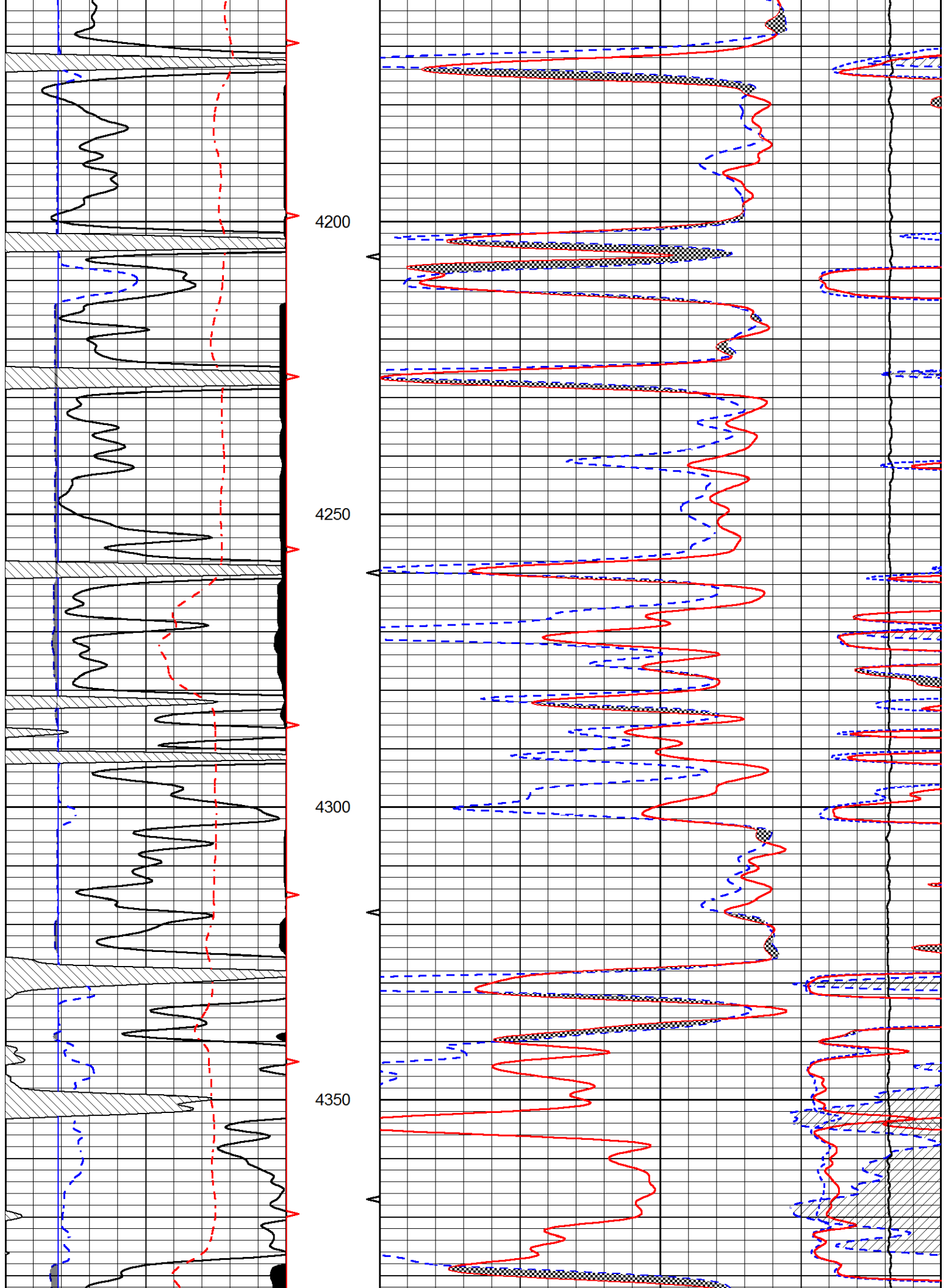
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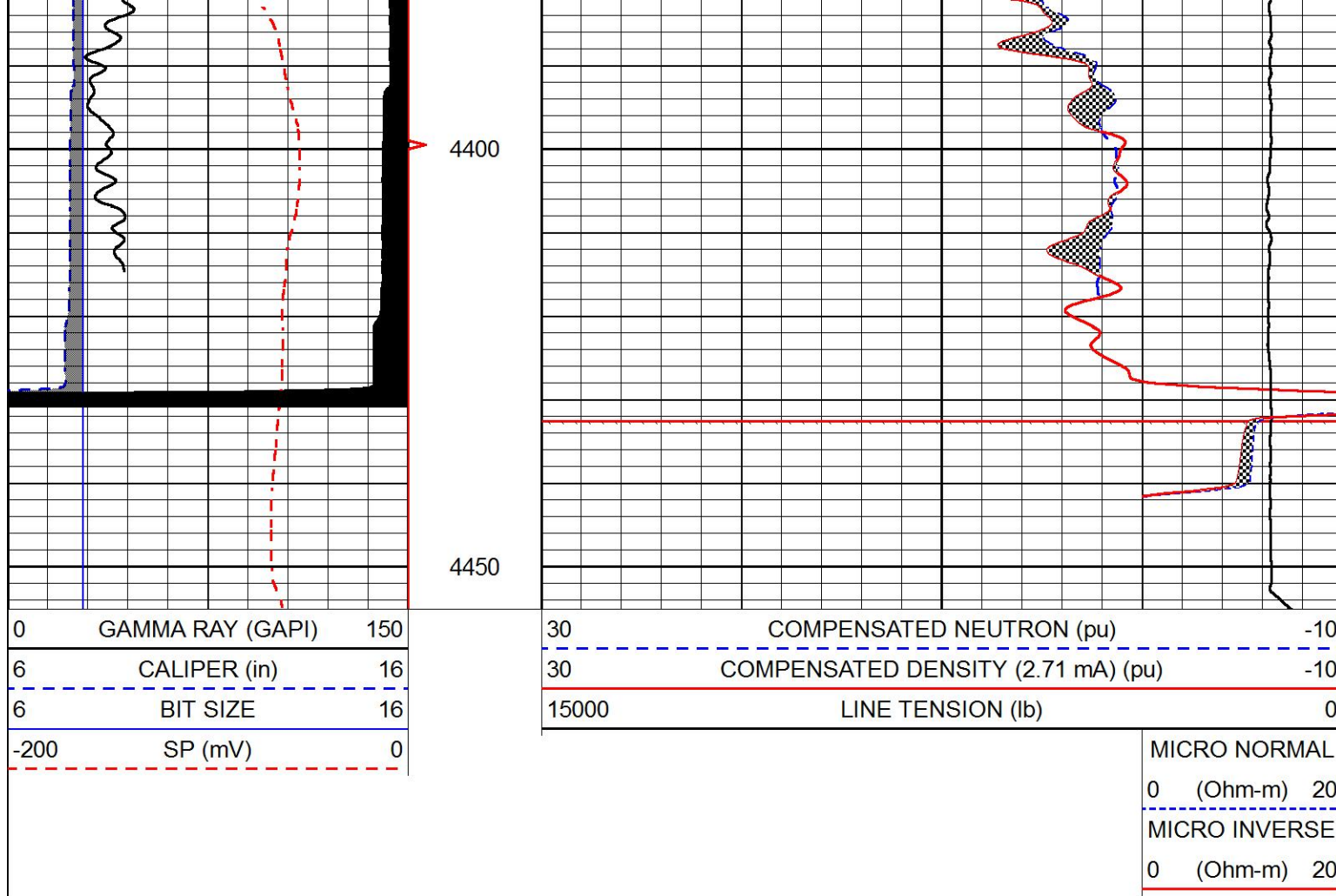










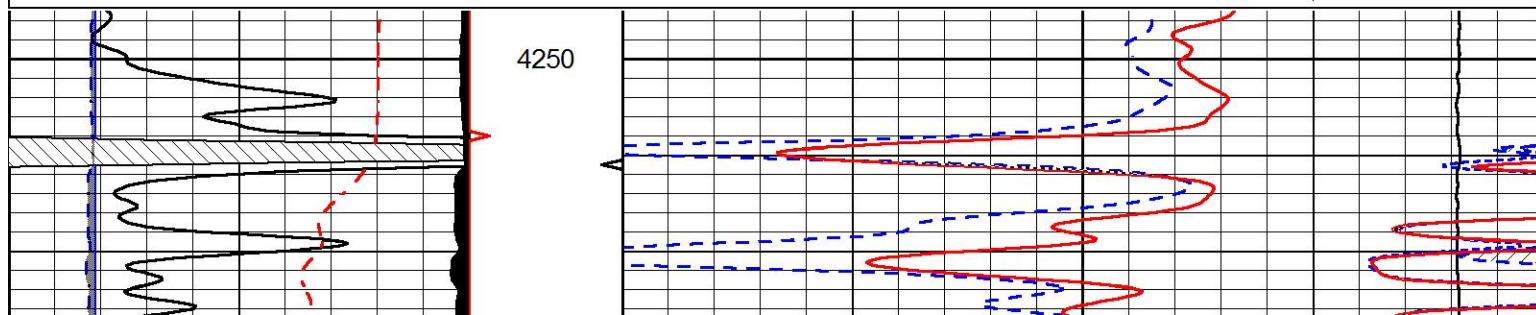
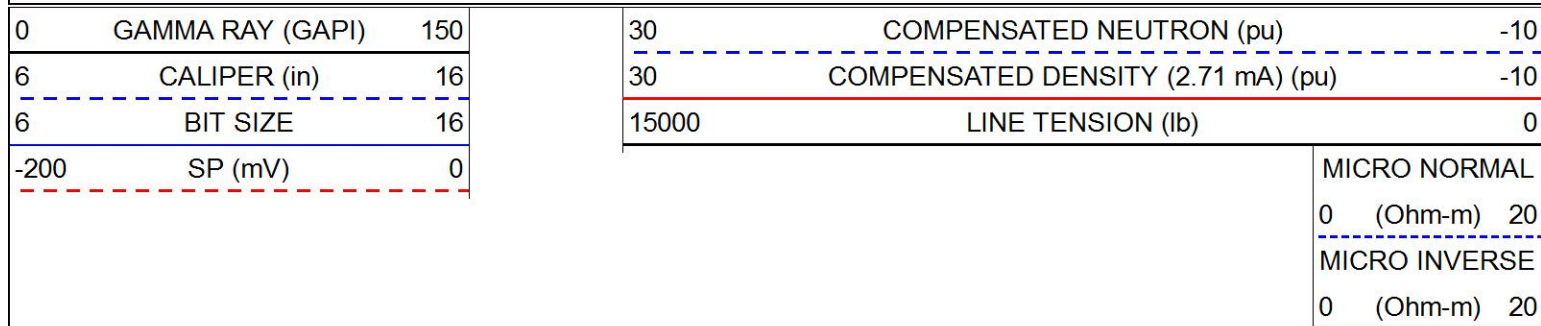


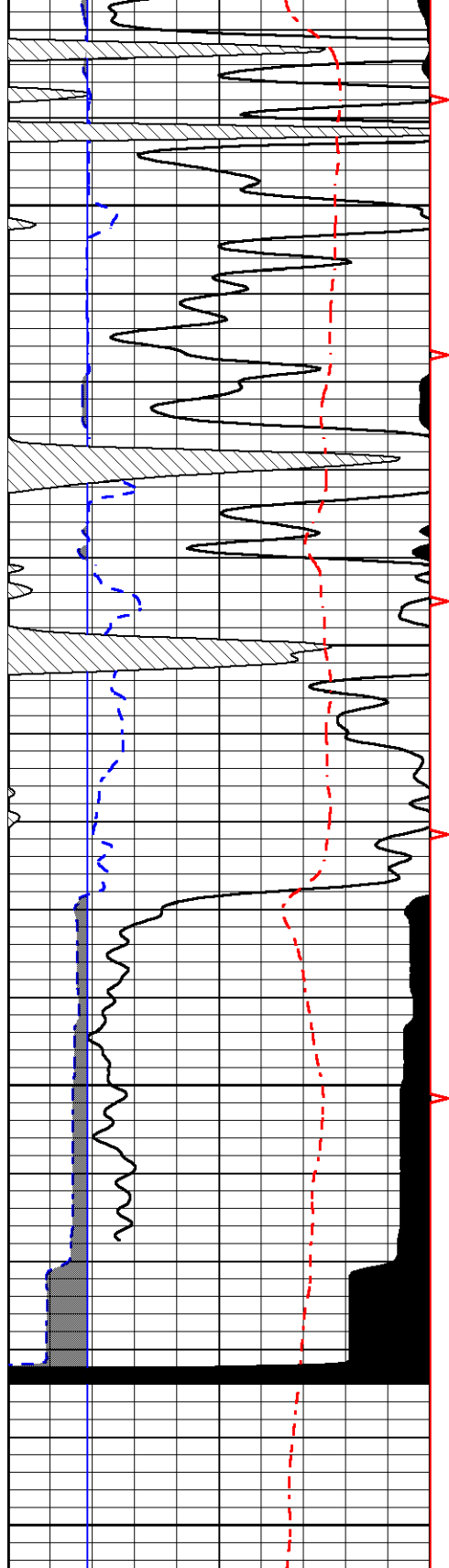
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

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 Presentation Format cndlspml
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 Charted by Depth in Feet scaled 1:240





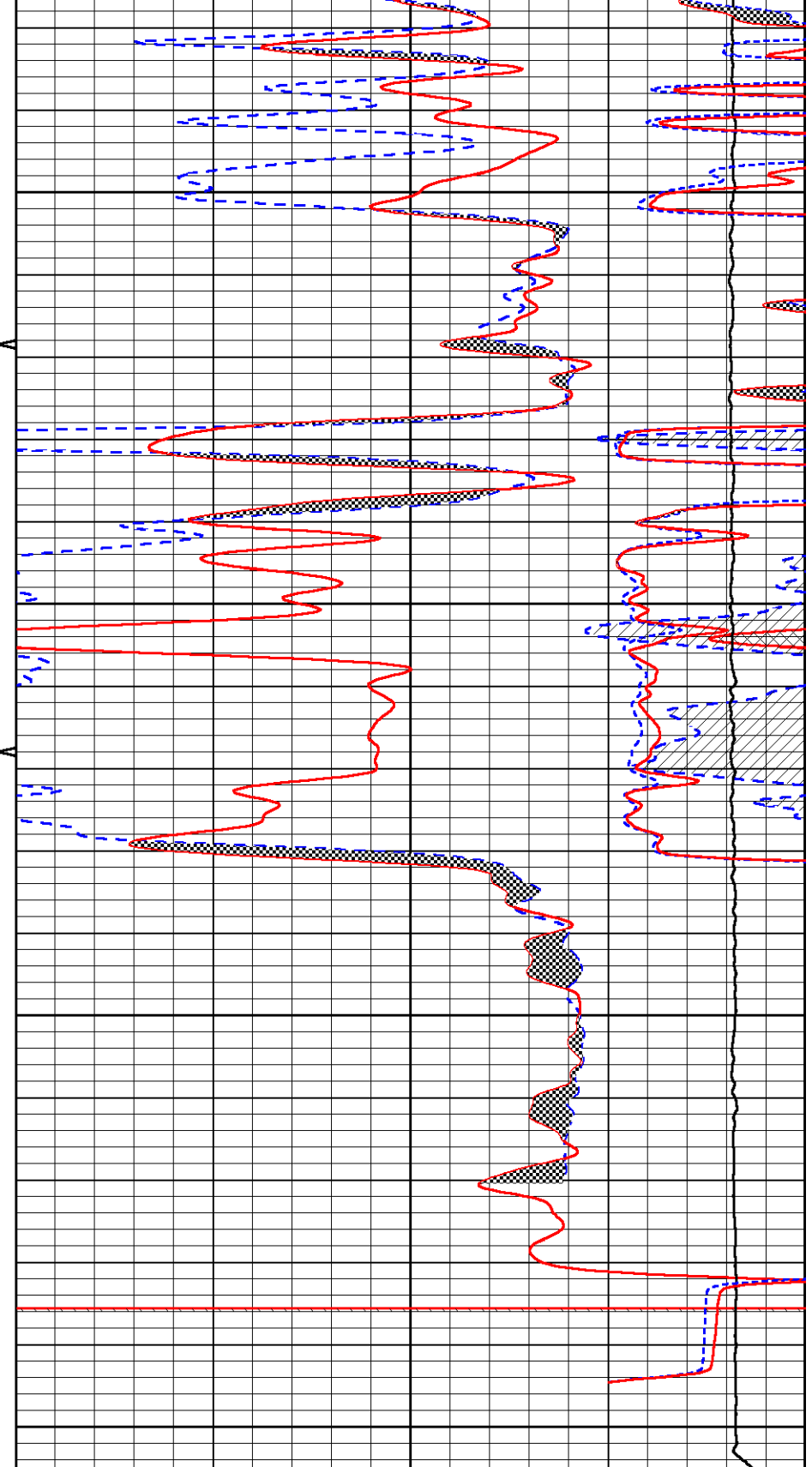
0	GAMMA RAY (GAPI)	150
6	CALIPER (in)	16
6	BIT SIZE	16
-200	SP (mV)	0

4300

4350

4400

4450



30	COMPENSATED NEUTRON (pu)	-10
30	COMPENSATED DENSITY (2.71 mA) (pu)	-10
15000	LINE TENSION (lb)	0

MICRO NORMAL		
0	(Ohm-m)	20
MICRO INVERSE		
0	(Ohm-m)	20



Company	Shakespeare Oil Co., Inc.
Well	Ottley #3-21
Field	Chalk Buttes
County	Logan
State	Kansas