

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Neal LaFon Realty Inc. dba Meridian Energy Inc.
Well Name	SEEFELD 3
Doc ID	1400632

Tops

Name	Top	Datum
Stone Corral	1756	+514
Topeka	3218	-948
Heebner	3430	-1160
Toronto	3458	-1188
Lansing/KC	3470	-1200
Base KC	3684	-1414
Conglomerate	3708	-1438
Arbuckle	3764	-1494

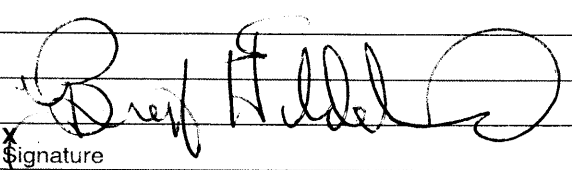
QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 594

Date	2-1-18	Sec.	18	Twp.	9	Range	21	County	Cartham	State	KS	On Location		Finish	6:45 p.m.
Lease								Well No.		Owner					
Contractor								Well No. 3		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Type Job										Charge To					
Hole Size								T.D.		Mordian Energy					
Csg.								Depth		Street					
Tbg. Size								Depth		City State					
Tool								Depth		The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.								Shoe Joint		Cement Amount Ordered					
Meas Line								Displace		12BC KCL 500gal mud flush					
EQUIPMENT										Common					
Pumptrk								No.		Cement Helper					
Bulktrk								No.		Driver					
Bulktrk								No.		Driver					
JOB SERVICES & REMARKS										Poz. Mix					
Remarks:										Gel.					
Rat Hole										Calcium					
Mouse Hole										KCL 2 gal					
Centralizers										Hulls					
Baskets										Salt					
D/V or Port Collar										Flowseal					
5 1/2 size 3853 bit hole 3810.62										Kol-Seal					
Establish Circulation Pump 500gal mud clear										Mud CLR 48					
12BC KCL Cement 5 1/2 with 150SK										CFL-117 or CD110 CAF 38					
Clear lines Displace Plug										Sand					
Displace 54BC water 36BC mud										Handling					
3BC water to leak plug										Mileage					
Plug leak relief 1500#										FLOAT EQUIPMENT					
										Guide Shoe					
										Centralizer					
										Baskets					
										AFU Inserts					
										Float Shoe					
										Latch Down					
										Pumptrk Charge					
										Mileage					
										prod. string Bottom stage					
										Tax					
										Discount					
										Total Charge					

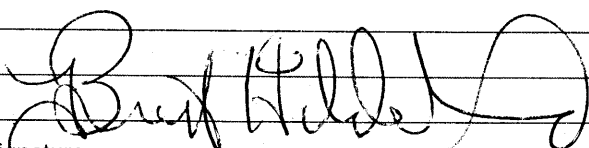
QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 595

Date	2-1-18	Sec.	18	Twp.	9	Range	21	County	Grant	State	KS	On Location		Finish	8:00 Am.
Lease								Well No.		Owner					
Contractor								Type Job		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Hole Size								T.D.		Charge To					
Csg.								Depth		Street					
Tbg. Size								Depth		City State					
Tool								Depth		The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.								Shoe Joint		Cement Amount Ordered					
Meas Line								Displace		Common					
EQUIPMENT															
Pumptrk								No.		Cementor Helper					
Bulktrk								No.		Driver					
Bulktrk								No.		Driver					
Bulktrk								No.		Driver					
JOB SERVICES & REMARKS															
Remarks:								Hulls							
Rat Hole								Salt							
Mouse Hole								Flowseal							
Centralizers								Kol-Seal							
Baskets								Mud CLR 48							
D/V or Port Collar								CFL-117 or CD110 CAF 38							
D/V Tool @ 1700'								Sand							
Plug Rods & Muschels								Handling							
Cement 5/2 with 330 SK								Mileage							
Displace Plug								FLOAT EQUIPMENT							
Plug landed @ 1500'								Guide Shoe							
Cement Circulated!								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge							
								Mileage							
								Tax							
								Discount							
								Total Charge							

prod string TOP Stage
48

MAXWELL LAFON WELLSITE GEOLOGY**WELL INFO**

Well Name: Seefeld #3
 Location: NE SE NE, s. 18, T. 9N, R. 21W
 Footage: 330' FEL, 3630' FSL
 County/State: Graham Co., Kansas
 Field: Morel
 Coordinates: N 39.273494, W 99.699902
 API #: 15-065-24146

Ground Elev: 2264' KB Elev: 2270'
 Logged Interval: 2680' - TD Total Depth: 3855'

OPERATOR INFO

Company: Meridian Energy Inc.
 Address: 1475 Ward Cir.
 Franktown, CO 80202

CONTRACTOR

Contractor: Royal
 Rig #: 1
 Rig Type: Rotary Double
 Spud Date: 1/25/2018 Time: 2:15 PM
 TD Date: 1/31/2018 Time: 12:09 PM
 Rig Release: Time:

WELLSITE GEOLOGIST

Geologist: Maxwell LaFon
 Address: 49 Logan St.
 Denver, CO 80203
 Phone: 303-594-0515
 Email: mjlafon@gmail.com

DRILL STEM TESTS

No.	Interval	Formation	Recovery
No DSTs			

FORMATIONS

Formation	Depth (Samples)	Depth (Logs)	Subsea
Stone Corral	1756'	1756'	+514
Neva	2729'	2730'	-460
Topeka	3217'	3218'	-948
Oread	3377'	3394'	-1124
Heebner	3430'	3430'	-1160
Toronto	3453'	3458'	-1188
Lansing A/KC	3470'	3470'	-1200
Lansing B	3498'	3501'	-1231
Lansing C	3510'	3508'	-1238

Lansing D	3525'	3528'	-1258
Lansing E	3536'	3540'	-1270
Lansing F	3544'	3544'	-1274
Lansing G	3565'	3564'	-1294
Lansing H	3598'	3603'	-1333
Lansing I	3623'	3624'	-1354
Lansing J	3638'	3640'	-1370
Lansing K	3655'	3658'	-1388
Lansing L	3671'	3672'	-1402
Base Lansing/KC	3685'	3684'	-1414
Conglomerate	3711'	3708'	-1438
Arbuckle	3767'	3764'	-1494
TD	3855'	3856'	

ROCK TYPES

Cht	Lmst fw<7	Ss	Shcol
Congl	Lmst fw>7	Shgy	Ool grnst
Dolprim	Mrlstcalc	Shblk	

OTHER SYMBOLS

OIL SHOWS

- Even Stn
- Spotted Stn 50 - 75 %
- Spotted Stn 25 - 50 %
- Spotted Stn 1 - 25 %
- Questionable Stn
- D Dead Oil Stn
- Fluorescence

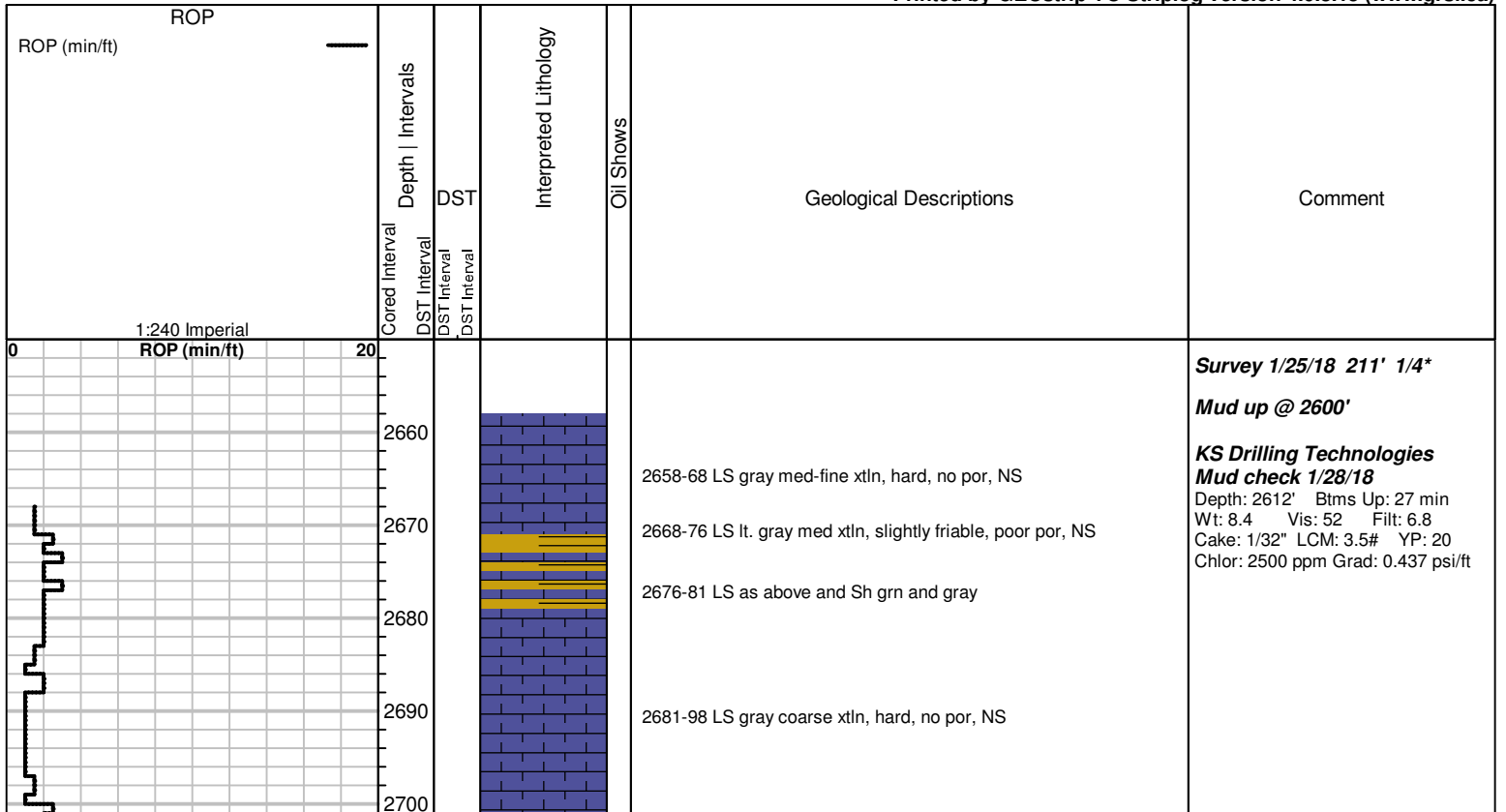
MISC

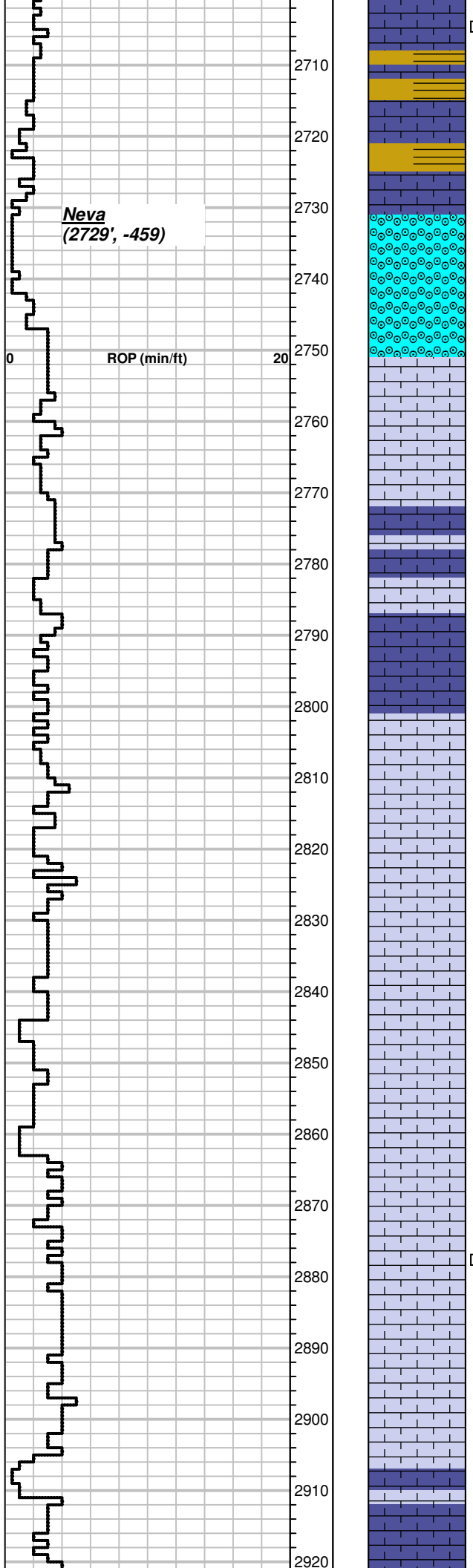
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- Digital Photo
- Document
- Folder
- Link
- Vertical Log File
- Horizontal Log File
- Core Log File
- Drill Cuttings Rpt

DST

- DST Interval
- DST Interval

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D

2698-2707 LS gray/brown xtl, very hard, no por, trace dead bitumen, NSFO

2707-13 As above, also Sh red

2713-16 As above

2716-29 LS lt. brwn, fine xtl, hard, no por, NS Also Sh red

2729-51 LS cream - lt. tan oolitic, hard, very poor intergrnlr por, good oomoldic por, not interconnected, NSFO

2751-61 LS gray packstone, very hard, NS Trace LS cream oolitic from above

2761-73 As above

2773-82 LS lt. gray microxtln, very hard, no por, NS. Trace LS gray fossiliferous packstone, very hard, no por, NS

2782-91 As above, Also LS lt. gray very fine xtl, very friable, no por, NS

2791-2801 LS lt. gray microxtln, very hard, no por, NS

2801-31 LS gray fossiliferous grnstr, very hard, no por, NS

2831-60 LS lt. gray/cream very fine grnstr, slightly friable, no por, NS

D

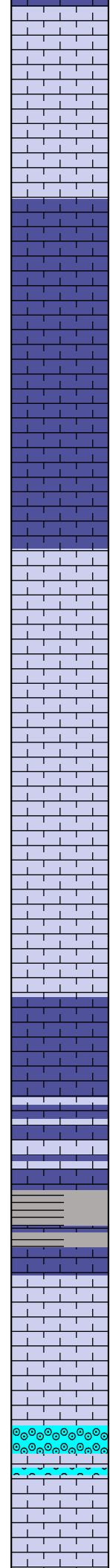
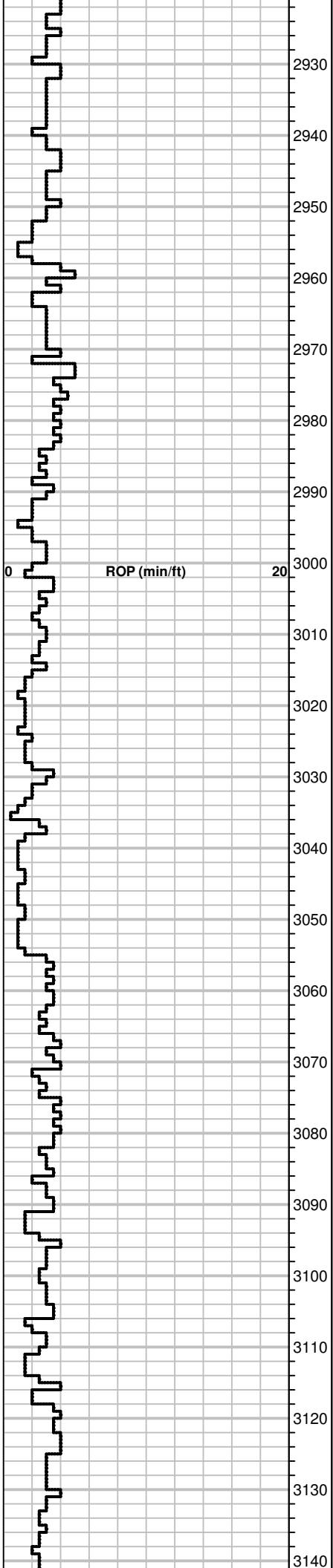
2860-94 LS lt. gray matrix and gray fossiliferous grnstr, very hard, no por, NSFO. Trace cuttings w/ specks of dead oil

2894-2923 As above, Also LS gray xtl, very hard, no por, NS

Wt. 8.5
Vis 52
LCM 3 #

Wt. 8.6
Vis 51
LCM 3 #

Wt. 8.7
Vis 50
LCM 3 #



2923-49 LS gray and lt. gray fine grnstrn, very hard, no por, NS

2949-81 LS gray fine and micro xtln very hard, no por, NS

2981-98 As above, Trace LS cream coarse xtln, very hard, no por, NS

2998-3025 LS gray grnstrn, very hard, no por, NS Also, lt. tan very fine grnstrn, hard, no por, NS. Trace fossils

3025-61 LS gray grnstrn, very hard, no por, NS. Trace fossils

3061-90 LS lt. gray and gray microxtln, very hard, no por, NS. Trace LS gray grnstrn, very hard, no por, NS

3090-3100 As above, Also Sh dk gray

3100-09 LS lt. tan fine grnstrn, very hard, no por, NS

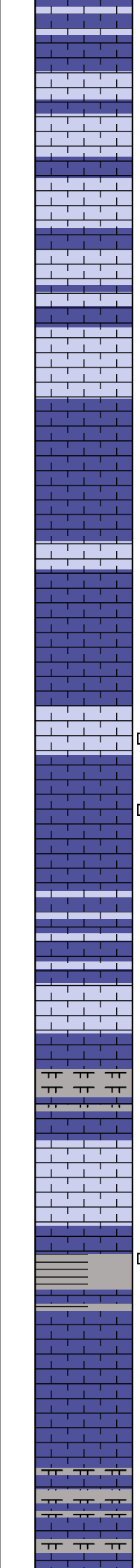
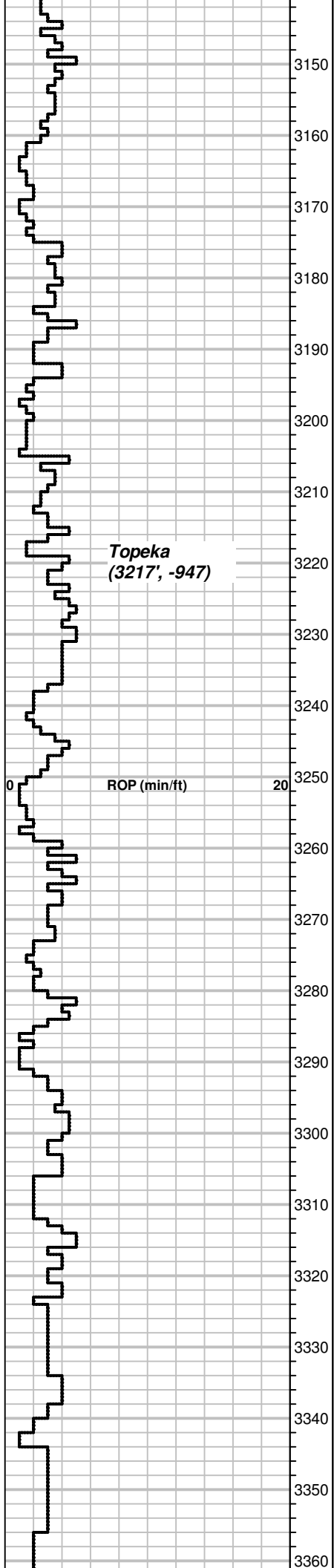
3109-22 As above, LS lt. tan fossiliferous grnstrn, very hard, no por, NS

3122-30 LS lt. gray grnstrn, some fossiliferous, trace oolitic, very hard, no por, NS

3130-42 LS lt. tan fine fossiliferous grnstrn recrystallized, very hard, no por, NS

Wt. 8.7
Vis 50
LCM 3 #

KS Drilling Technologies
Mud check 1/29/18
Depth: 3021' Btms Up: 30 min
Wt: 8.5 Vis: 54 Filt: 7.2
Cake: 1/32" LCM: 3# YP: 20
Chlor: 3500 ppm Grad: 0.442 psi/ft



3142-52 Trace as above, Mostly LS lt. gray xtl, very hard, no por, NS

3152-57 LS lt. tan grnstn, very hard, no por, NS. LS gray microxtln, very hard, no por, NS

3157-68 As above

3168-81 LS gray grnstn recrystallized, very hard, no por, NS

3181-88 As above

3188-97 As above

3197-3210 LS gray coarse xtl, very hard, no por, NS

3210-24 LS cream grnstn partially recrystallized, very hard, no por, NS

3224-32 LS gray microxtln, very hard, no por, NS

3232-40 LS gray and lt. tan microxtln, very hard, no por, NS

3240-46 LS lt. gray and gray grnstn, very hard, no por, trace dead bitumen, NSFO

3246-62 LS gray microxtln, very hard, no por, NS. LS lt. gray very fine sucrosic, slightly friable, no por, trace dead bitumen stain, NSFO

3262-69 LS fine xtl, slightly friable, no por, NS

3269-79 LS lt. tan fine xtl, very hard, no por, NS. Trace LS lt. tan grnstn partially recrystallized, very hard, no por, NS

3279-93 Same LS lt. tan grnstn from above, Also LS lt. tan microxtln, very hard, no por, NS

3293-3301 LS cream med xtl, very hard, no por, NS. Also LS white chalk

3301-13 LS lt. gray fine - med. grnstn, slightly friable, poor por, NS

3313-21 LS gray coarse xtl, friable, no por, NSFO, Dead oil stain abundant

3321-32 As above, Also trace Sh dk gray

3332-39 LS tan xtl, very hard, no por, NS

3339-49 LS cream fine xtl and microxtln, very hard, no por, NS

3349-58 As above, Also LS chalk, Trace fossils

Wt. 8.8
Vis 52
LCM 3 #

Wt. 8.8
Vis 50
LCM 3 #

Wt. 9.0
Vis 50
LCM 3 #

Topeka
(3217', -947)

ROP (min/ft)

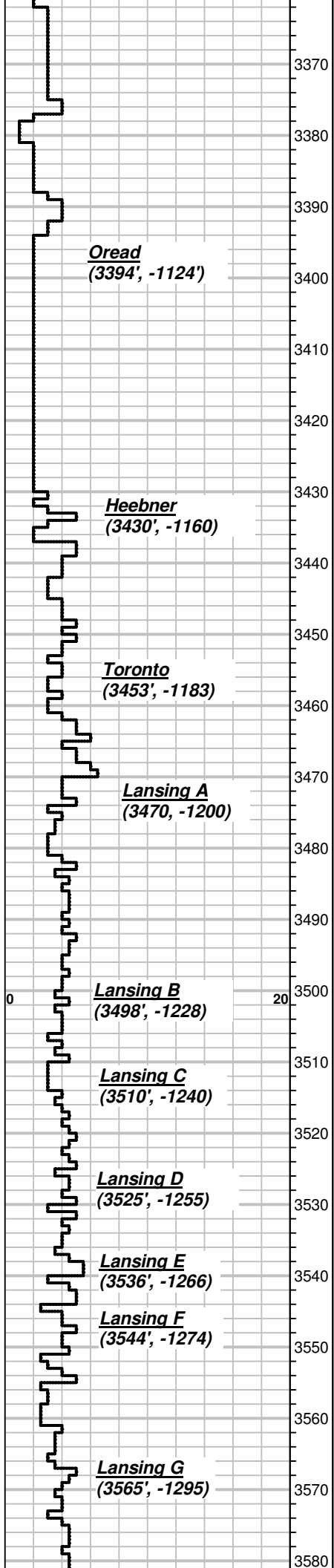
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20

D

D

D



3356-70 As above, trace LS gray coarse xtn, very hard, no por, dead oil stain sparse, NSFO

3370-77 LS cream/tan microxtln, very hard, no por, NS

3377-90 As above

3390-96 LS lt. tan coarse xtn, very hard, no por, NS

3396-3406 As above very angular, LS lt. tan sucrosic xtn, hard, no por. Also LS chalk, trace fossils

3406-16 LS gray - lt. gray med xtn, very hard, no por, NS

3416-31 LS lt. tan xtn, hard, no por, NS. Trace Sh black

3431-43 LS lt. gray - gray microxtln, very hard, no por, sparse dead bitumen stain, NSFO, More Sh black

3443-52 LS gray microxtln, very hard, no por, NS. Trace SS white very fine grnd, very hard, poor por, NS

3452-64 Sh red, LS lt. tan xtn, slightly friable, no por, NS

3464-72 LS lt. tan microxtln, very hard, no por, NS

3472-82 Distinct facies change - Lansing A, LS lt. tan grnstrn, hard, no por, NS. LS cream colored, fine xtn, very hard, no por, NS, some cuttings looks like grnstrn recrystallized

3482-89 LS cream microxtln, very hard, sparse pinpoint vugs, poor show free oil, fair odor, small oil specks in cup

3489-3502 LS cream microxtln, very hard, massive, no por, NS

3502-13 LS lt. tan and cream grnstrn, very hard, poor por, dead oil show. Also LS microxtln from above

3513-23 LS cream coarse xtn, hard, fair por in some cuttings, most have por, fair show free oil, sparse due to tight rock, faint odor in cup, oil drops in cup

3523-33 Trace LS from above, Sh red and green

3533-43 LS tan grnstrn, very hard, poor intrgrnlr por, poor show free oil, small oil specks in cup

3543-50 LS lt. gray microxtln, very hard, no por, NS. LS cream grnstrn, hard, very poor por, some dead oil stain, NSFO

3550-62 LS cream grnstrn, hard, most cuttings no por, some fair intrgrnlr por w/ some pinpoint vugs, good show free oil, small specks in cup

3562-73 LS lt. gray xtn, very hard, no por, NS. Some grnstrn stringers, hard, poor intrgrnlr por, dead oil stain, NSFO


3573-83 LS cream semi translucent microxtln, very hard, no por, NS


Wt. 9.1
Vis 48
LCM 3 #

KS Drilling Technologies
Mud check 1/30/18
Depth: 3490' Btms Up: 34 min
Wt: 9.1 Vis: 48 Filt: 6.6
Cake: 1/32" LCM: 3# YP: 15
Chlor: 5000 ppm Grad: 0.473 psi/ft


 Lansing A_3500.JPG

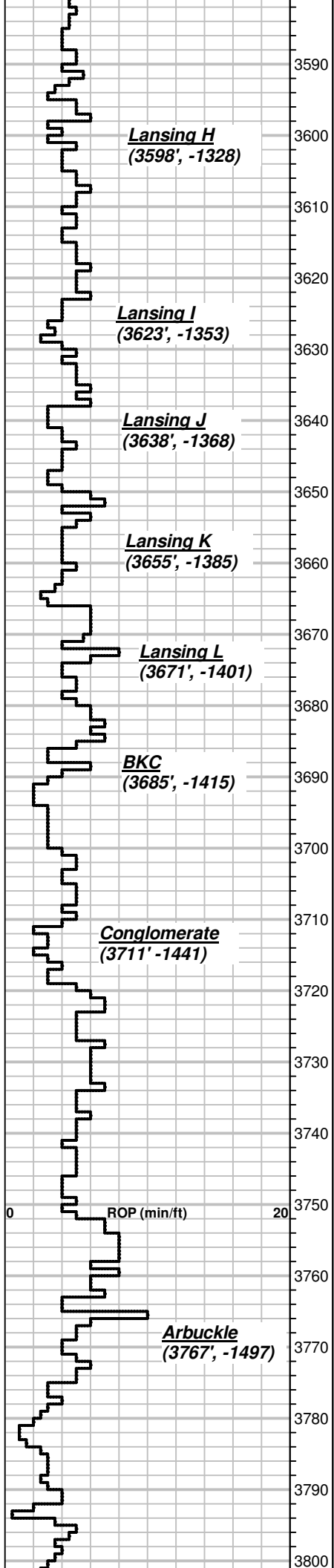
Wt. 9.1
Vis 48
LCM 3 #

 Lansing C_3530.JPG

 Lansing C_3530-2.JPG

 Lansing D_3550.JPG

 Lansing F_3570.JPG



Lansing H
(3598', -1328)

Lansing I
(3623', -1353)

Lansing J
(3638', -1368)

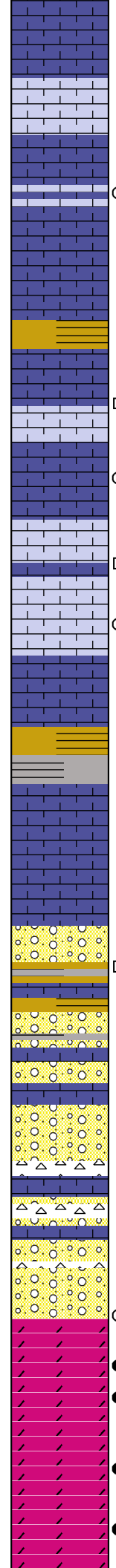
Lansing K
(3655', -1385)

Lansing L
(3671', -1401)

BKC
(3685', -1415)

Conglomerate
(3711' -1441)

Arbuckle
(3767', -1497)



3583-92 As above

3592-3601 LS gray grnstrn w/ white matrix, friable, no por, NS. LS brwn/gray xtlr, very hard, no por, NS

3601-13 LS cream microxtln, very hard, no por, NS. Sparse LS coarse xtlr grnstrn, hard, poor intrgrnlr por, **very poor show free oil, oil scum in cup, no odor**

3613-21 LS lt. gray - gray microxtln, very hard, no por, NS

3621-33 LS lt. tan microxtln, very hard, no por. Sh red. LS brown coarse xtlr, very hard, no por, NS

3633-43 LS lt. gray xtlr, very hard, no por, NS. LS gray grnstrn recrystallized, poor intrgrnlr por, some large vugs, **dead oil stain abundant**

3643-54 LS cream xtlr, very hard, sparse friable por, **abundant oil stain, most cuttings no stain, small oil specks in cup, fair odor**

3654-64 LS cream grnstrn, slightly friable, very poor intrgrnlr por, **trace dead oil stain**, Mostly LS cream - lt. tan microxtln, very hard, no por, NS, Trace Sh red

3664-73 LS grnstrn from above, **Trace very poor free oil show**, sparse, **mostly dead oil, few oil specks in cup**

3673-83 LS darker gray - brwn xtlr, ratty, very hard, no por, NS

3683-89 As above, Sh red/dark gray, mixture of different darker colored limestones, NS

3689-3703 Some LS cream xtlr, very hard, no por, NS

3703-11 LS cream med xtlr, very hard, no por, NS

3711-25 Conglomerate facies, Sh red some dk gray. Mixture of LS cream fine xtlr, very hard, no por, **dead bitumen stain**, NSFO and darker colored LS

3725-34 As above

3734-43 As above, Congl. LS white/purple med xtlr, very hard, no por, NS

3743-56 Chert orange, LS white fine - med xtlr, very hard, no por, NS. Trace dark congl. LS xtlr, hard, no por, NS

3756-65 LS as above, trace chert orange

3765-71 Conglomerate LS. Few Dolo sucrosic, very hard, poor por,

3771-77 Dolo. lt. tan some cuttings w/ nicely developed rhomboids, good intrgrnlr vugs, very hard, **good stain and free oil in pores, very strong odor, strong cut, strong fluor**. Most grains Dolo w/ good rhombs, poor intrgrnlr por, very hard, some w/ **good free bleeding oil lots of specks in cup**

3777-90 Dolo. lt. tan, nice rhombs, fair intrgrnlr por, good large vugs, **oil filled, strong odor, strong cut and fluor, oil drops in cup**

3790-99 As above, smaller rhombs, smaller vugs, fair intrgrnlr por w/ **good free oil shows, fair odor**

Wt. 9.1
Vis 46
LCM 3 #

Lansing J_3660.JPG

Wt. 9.4
Vis 52
LCM 3 #

Wt. 9.4
Vis 54
LCM 2 #

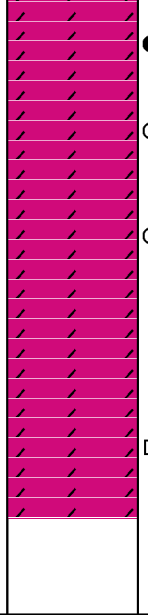
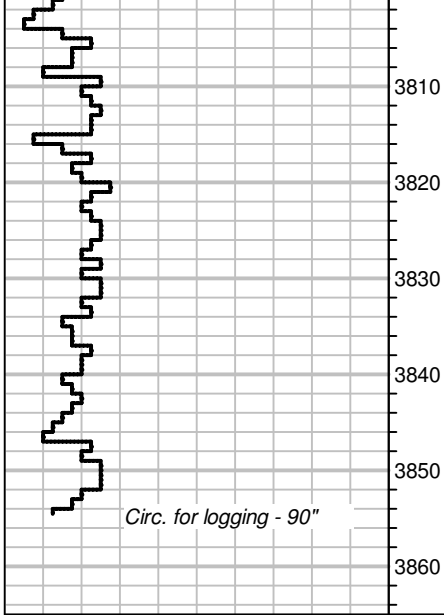
*Arbuckle rig kick @ 3770'

Arbuckle_3790.JPG

Arbuckle_3800.JPG

Arbuckle_3800-2.JPG

Arbuckle_3820.JPG



3799-3812 As above

3812-23 Good stain as above. Very few cuttings w/ oil stained por., more cuttings w/ no intrgrnlr por, no stain, fair odor in cup

3823-32 Dolo. cream microxtln, very hard, no por, tight, NS. Dolo. cream med rhombs, very hard, poor intrgrn por, fair oil stain. sparse free oil drops. starting to look "wet"

3832-41 As above

3841-46 Mostly Dolo, lt. tan coarse xtl, no intrgrnlr por, very hard, NS

D 3846-55 As above, some dead oil stain. NSFO

Driller TD 3855'
Loggers TD 3856'

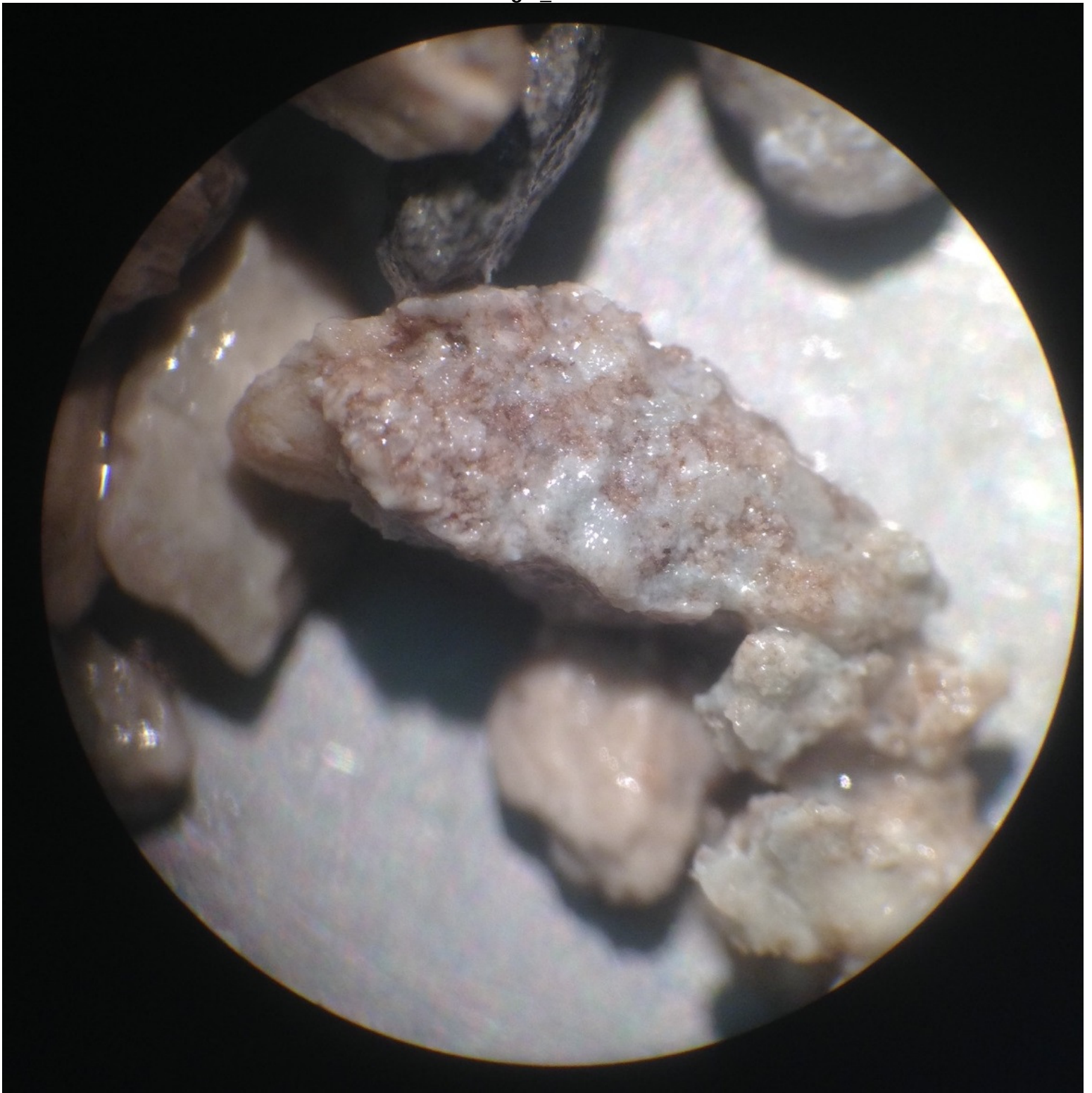
Arbuckle_3830.JPG

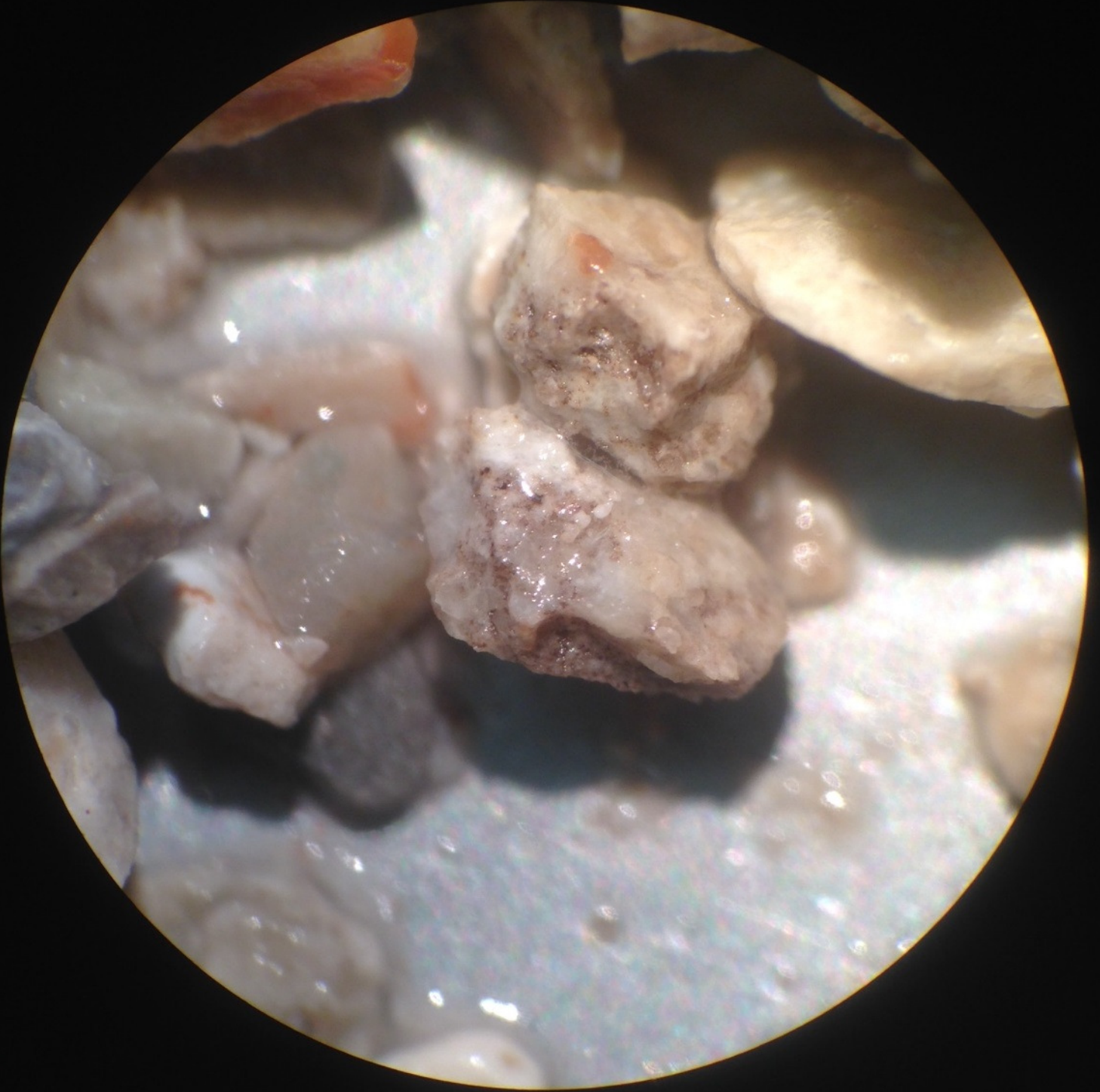
**KS Drilling Technologies
Mud check 1/30/18**

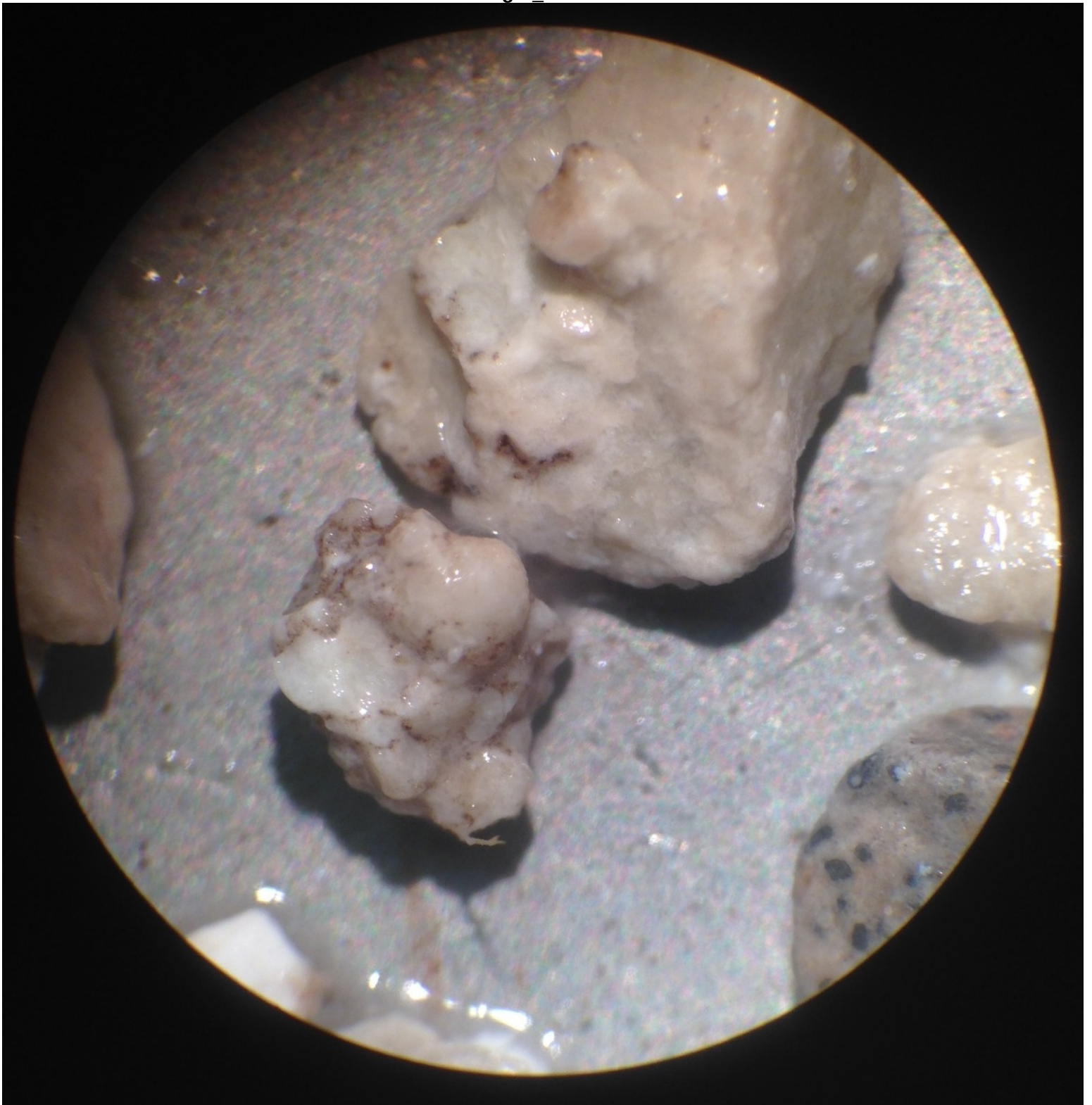
Depth: 3805' Btms Up: 36 min
Wt: 9.2 Vis: 55 Filt: 8.2
Cake: 1/32" LCM: 3# YP: 15
Chlor: 5000 ppm Grad: 0.478 psi/ft

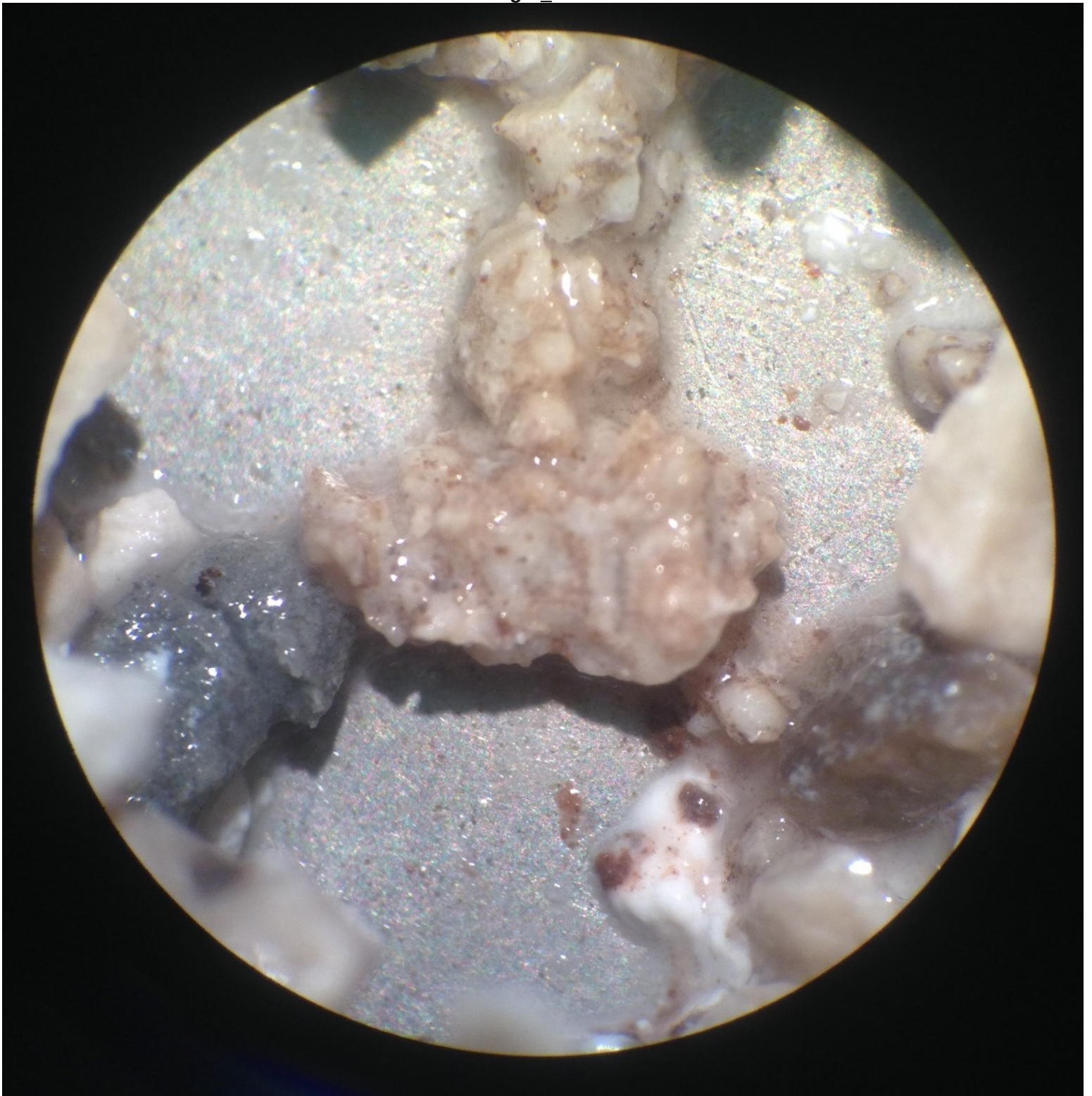
** Drilling table was chatty and shaking through entire Arbuckle sequence. Would drill hard then drop through porosity.*

Survey 1/31/18 3855' 1*
Pipe Strap 0.09 long

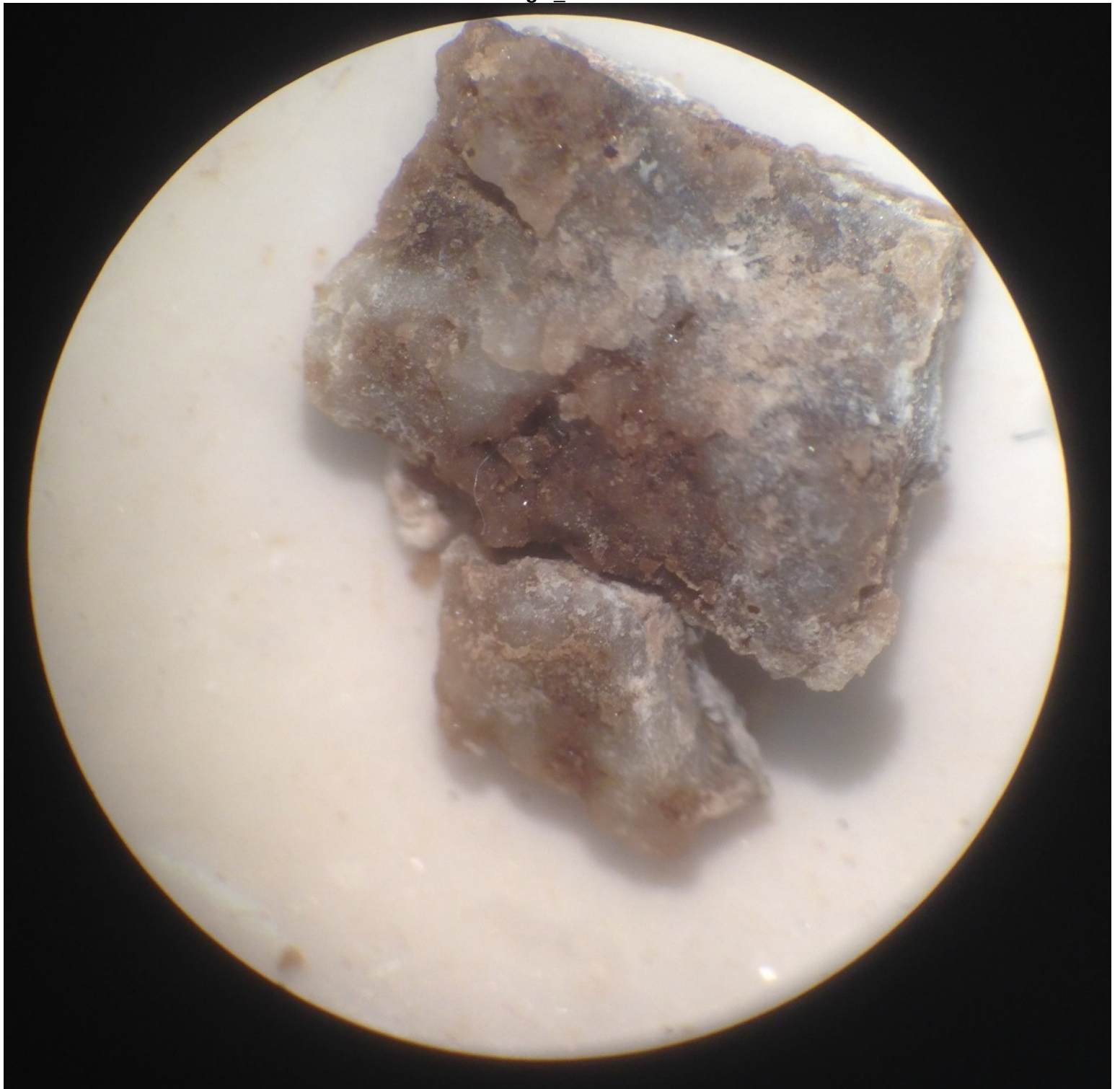


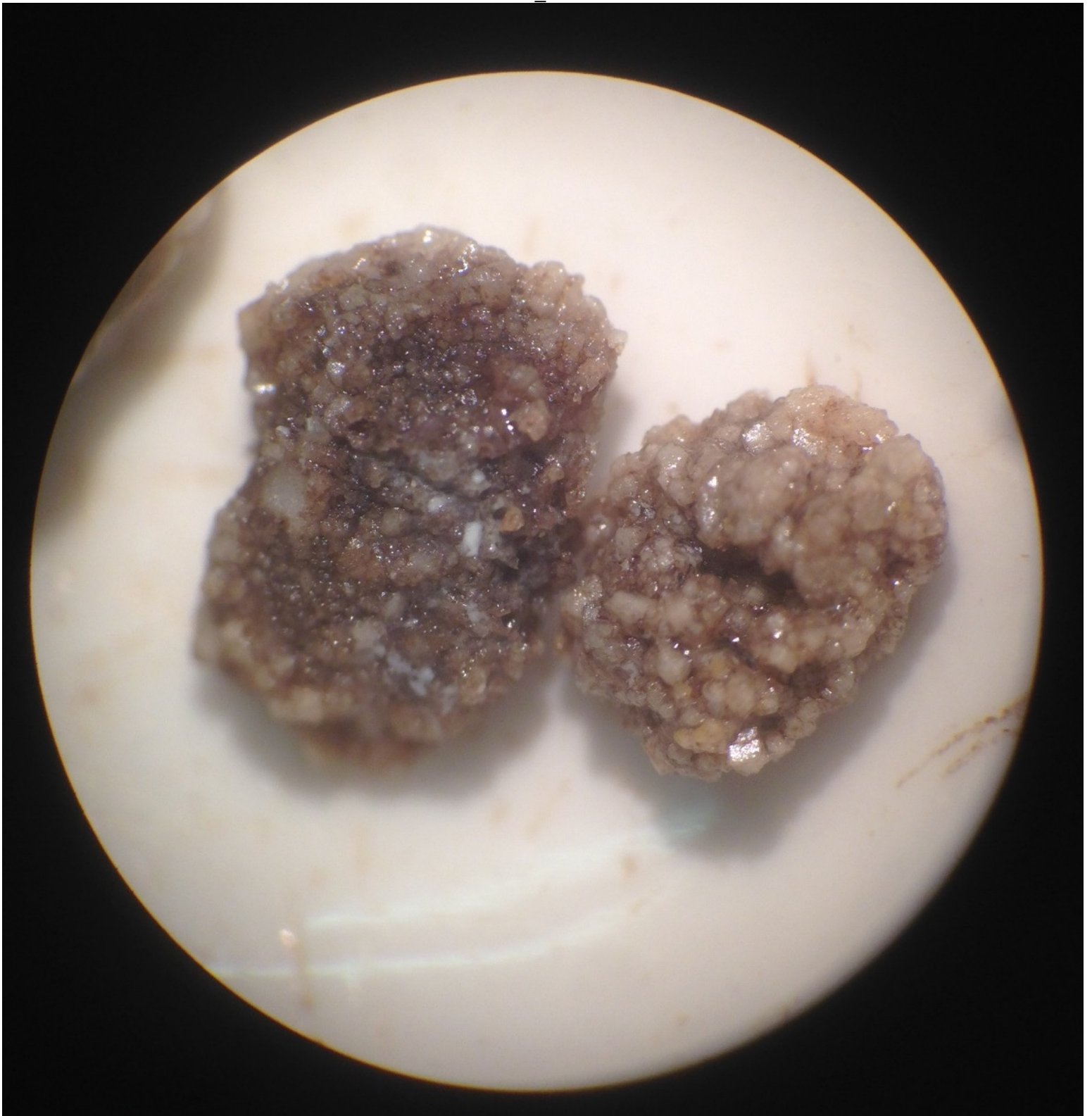




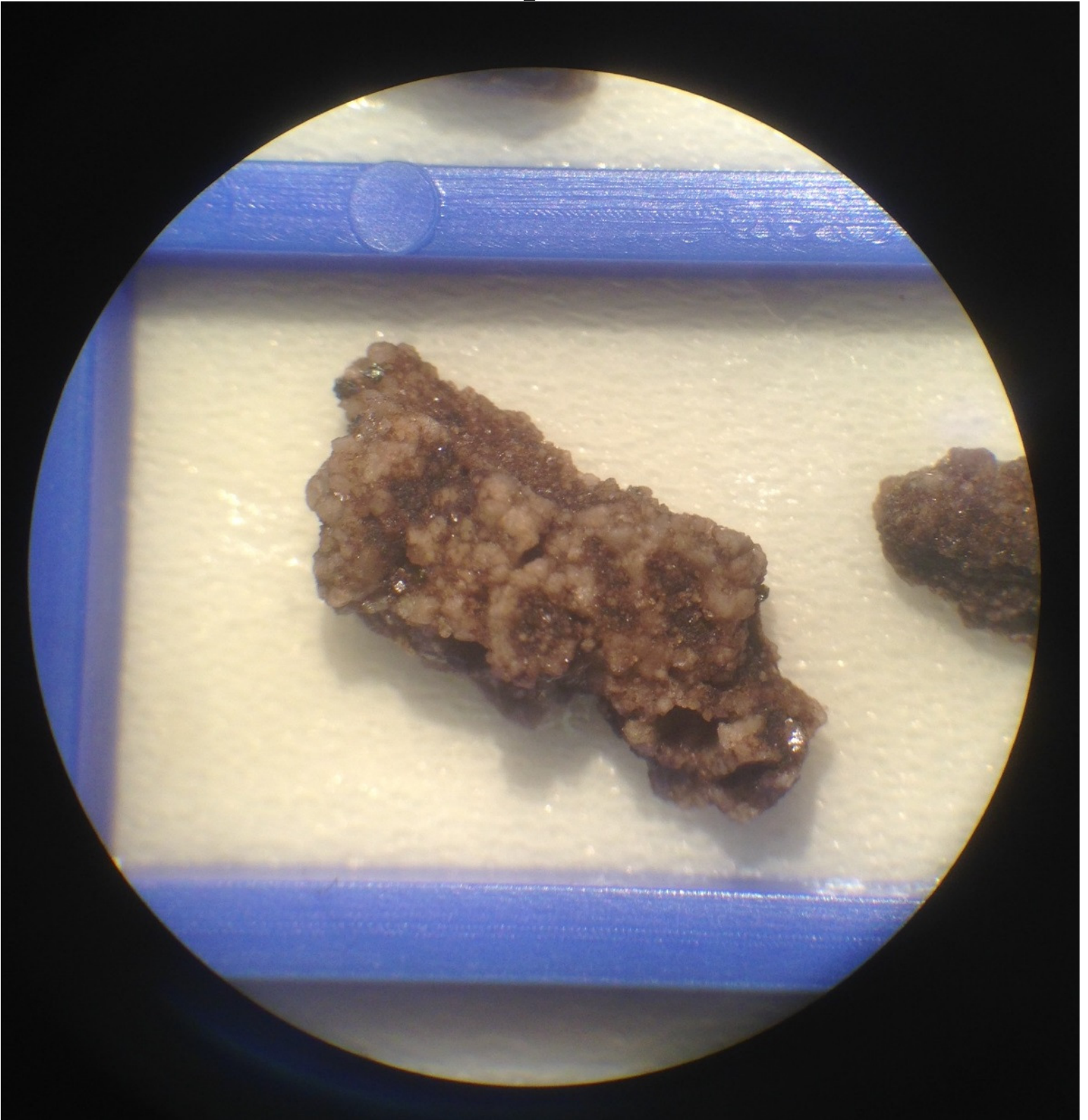


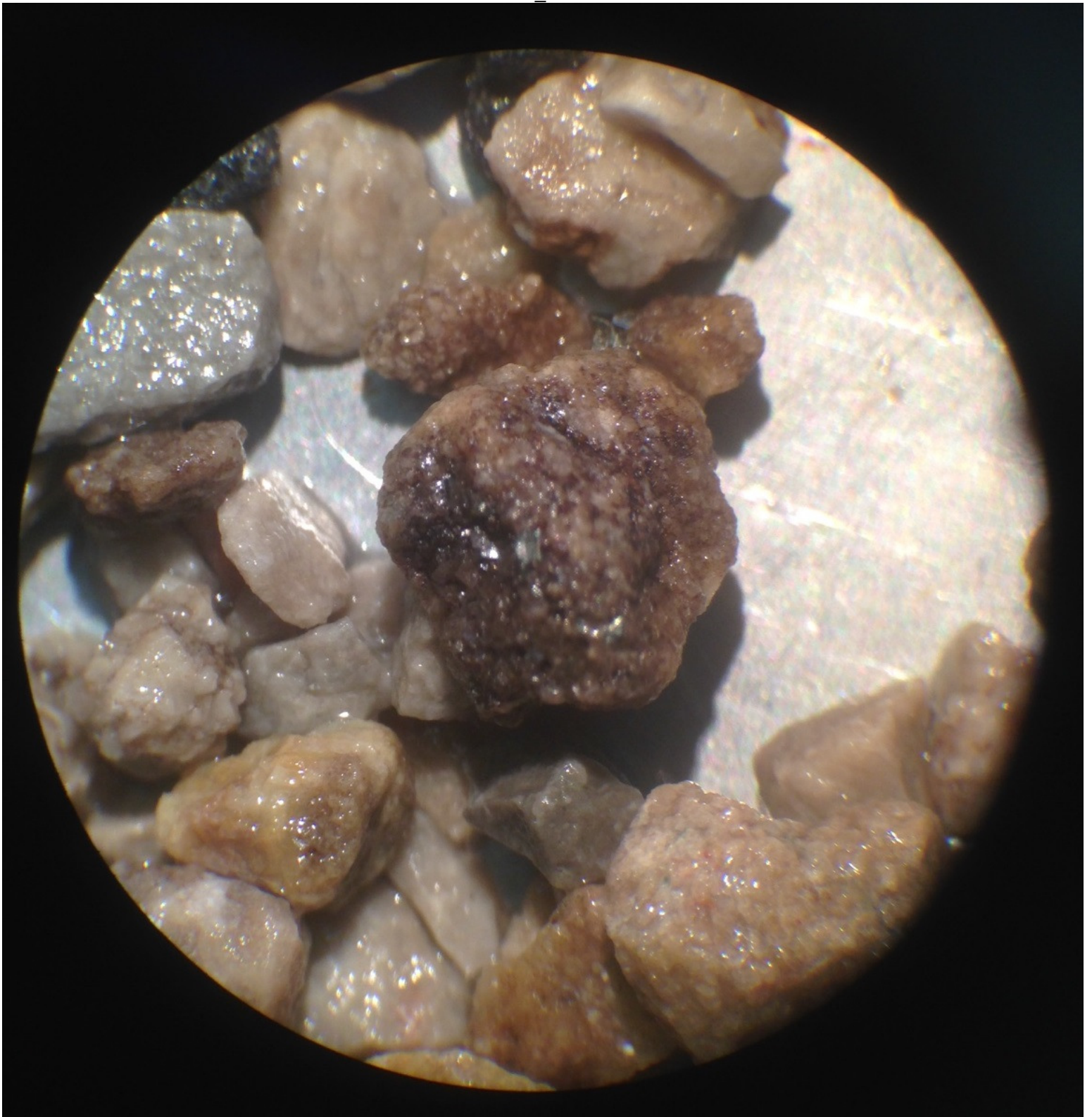


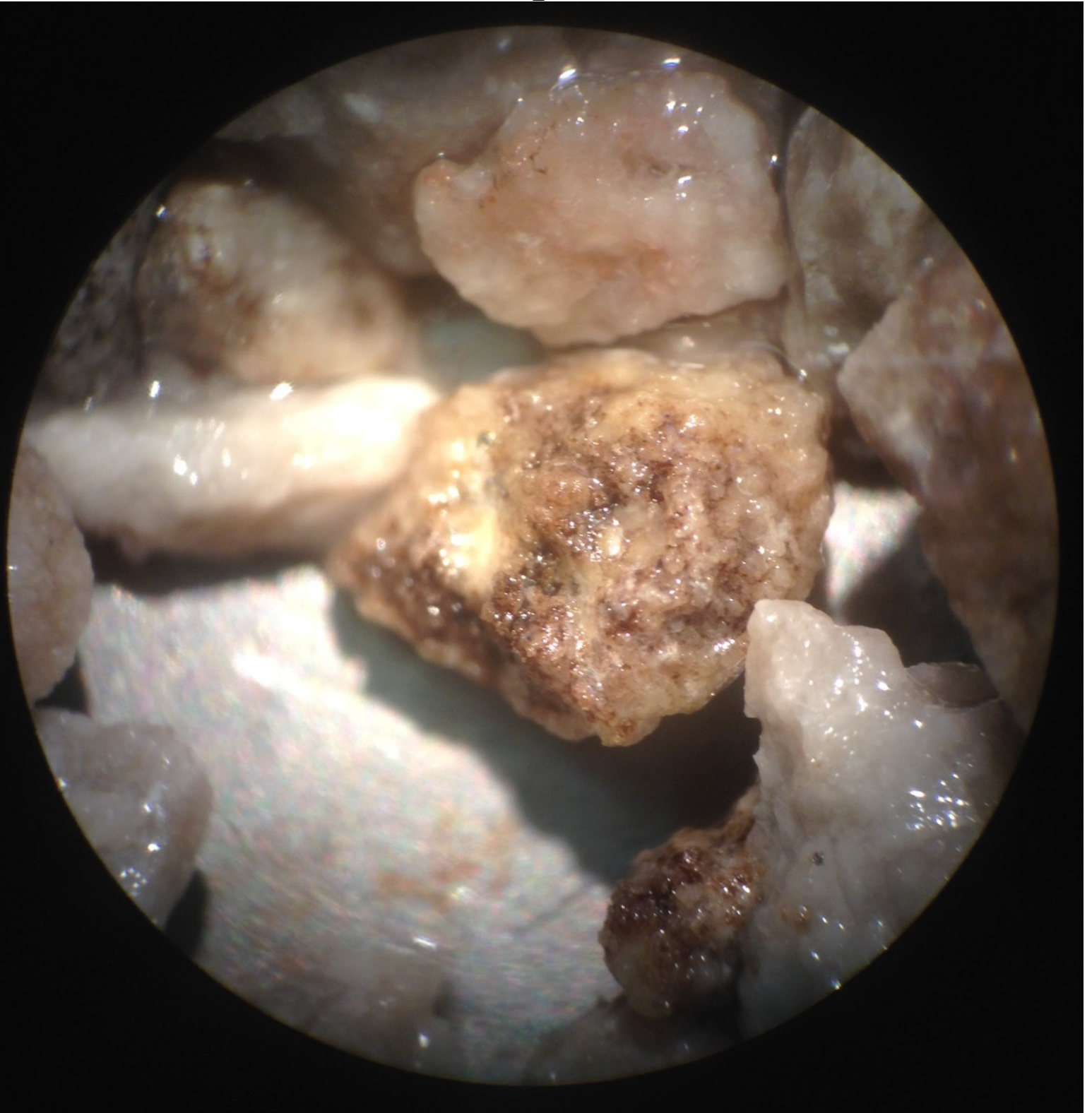














DUAL INDUCTION LOG

Company: MERIDIAN ENERGY, INC.
 Well: SEEFELD #3
 Field: MOREL
 County: GRAHAM
 State: KANSAS

Company: MERIDIAN ENERGY, INC.
 Well: SEEFELD #3
 Field: MOREL
 County: GRAHAM
 State: KANSAS

Location: API #: 15-065-24146-00-00
 3630' FSL & 330' FEL
 SEC 18 TWP 9S RGE 21W
 Permanent Datum: GROUND LEVEL Elevation 2264'
 Log Measured From: KELLY BUSHING
 Drilling Measured From: KELLY BUSHING
 Other Services: CNL/CDL MEL
 Elevation: K.B. 2270', D.F. N/A, G.L. 2264'

Date	1/31/2018
Run Number	ONE
Depth Driller	3855'
Depth Logger	3856'
Bottom Logged Interval	3855'
Top Log Interval	200'
Casing Driller	8.625" @ 210'
Casing Logger	208'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	5000
Density / Viscosity	9.2 55
pH / Fluid Loss	8.9 8.2
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.60 @ 50
Rmt @ Meas. Temp	0.45 @ 50
Rmc @ Meas. Temp	0.81 @ 50
Source of Rmf / Rmc	CHARTS
Rm @ BHT	0.26 @ 115
Operating Rig Time	3 HOURS
Max Rec. Temp. F	115
Equipment Number	91
Location	HAYS
Recorded By	D. SCHMIDT
Witnessed By	MAXWELL LAFON

<<< Fold Here >>>

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.

BOGUE,
 SOUTH TO K ROAD, 1/2 SOUTH,
 WEST INTO

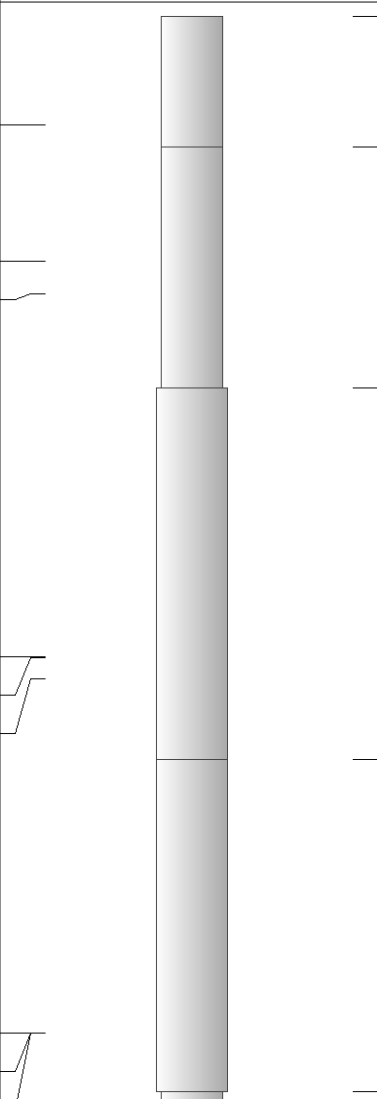
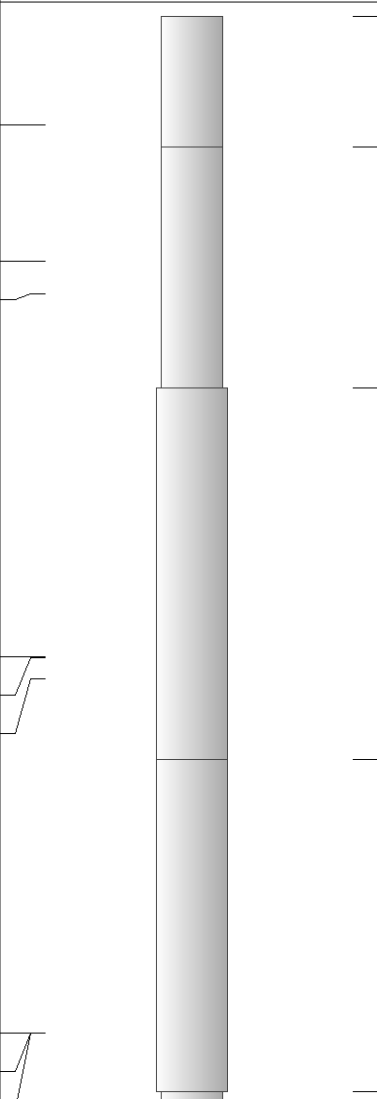
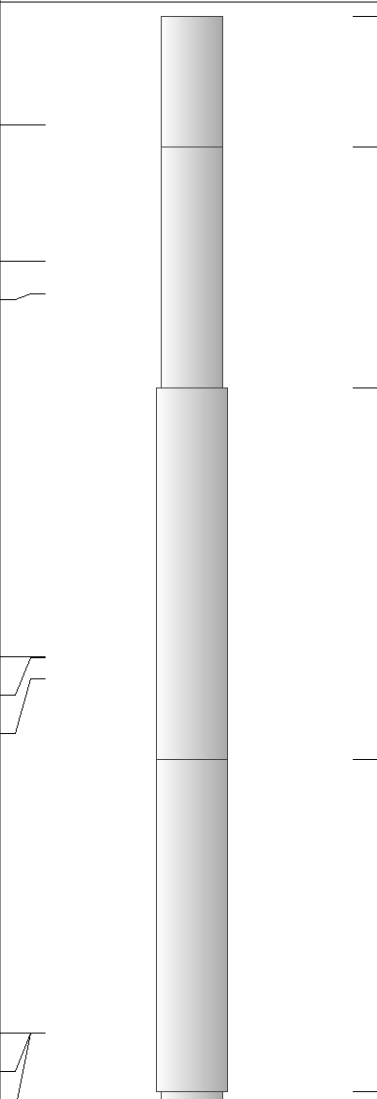
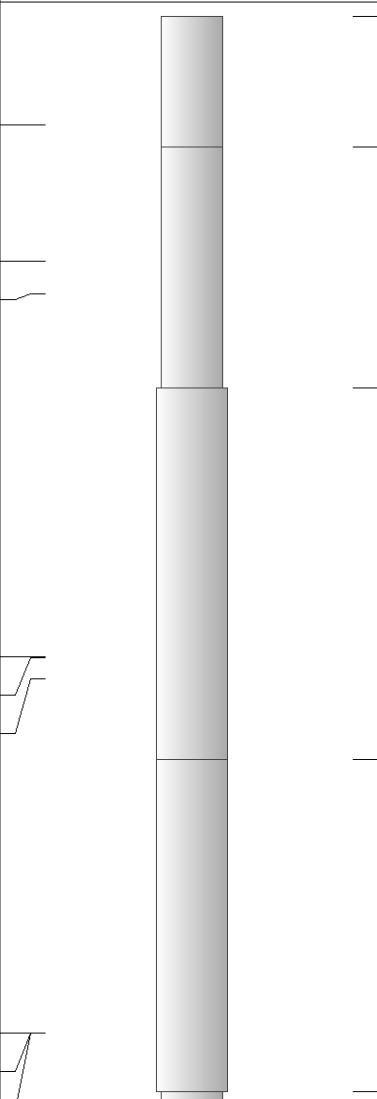
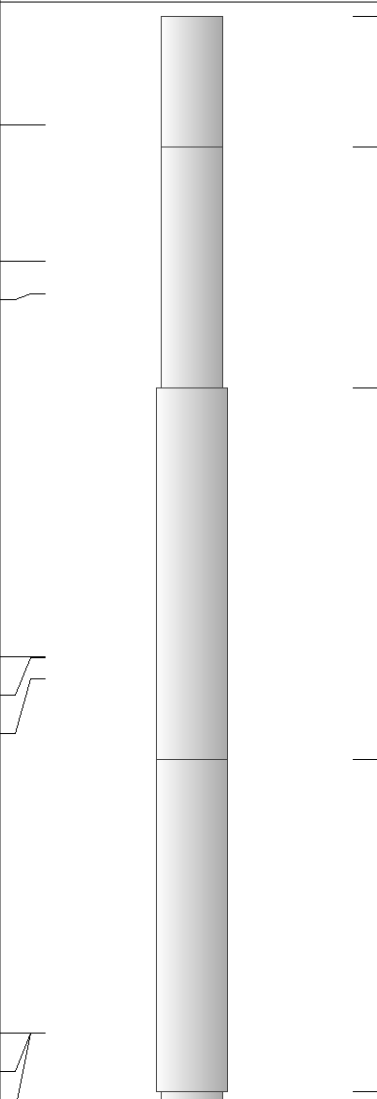
Log Measured From: KELLY BUSHING 6 Ft. Above Permanent Datum

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

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

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	-237	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	50	0	5.5	0	3856	115	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (227-771)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics	7.58	4.00	65.00
RLL3F RLL3	15.80 15.80					

CILD 8.00

CILM 4.70

SP 0.20

DIL-PSI HIGH TEMP (933 (HT))

18.50

3.50

220.00

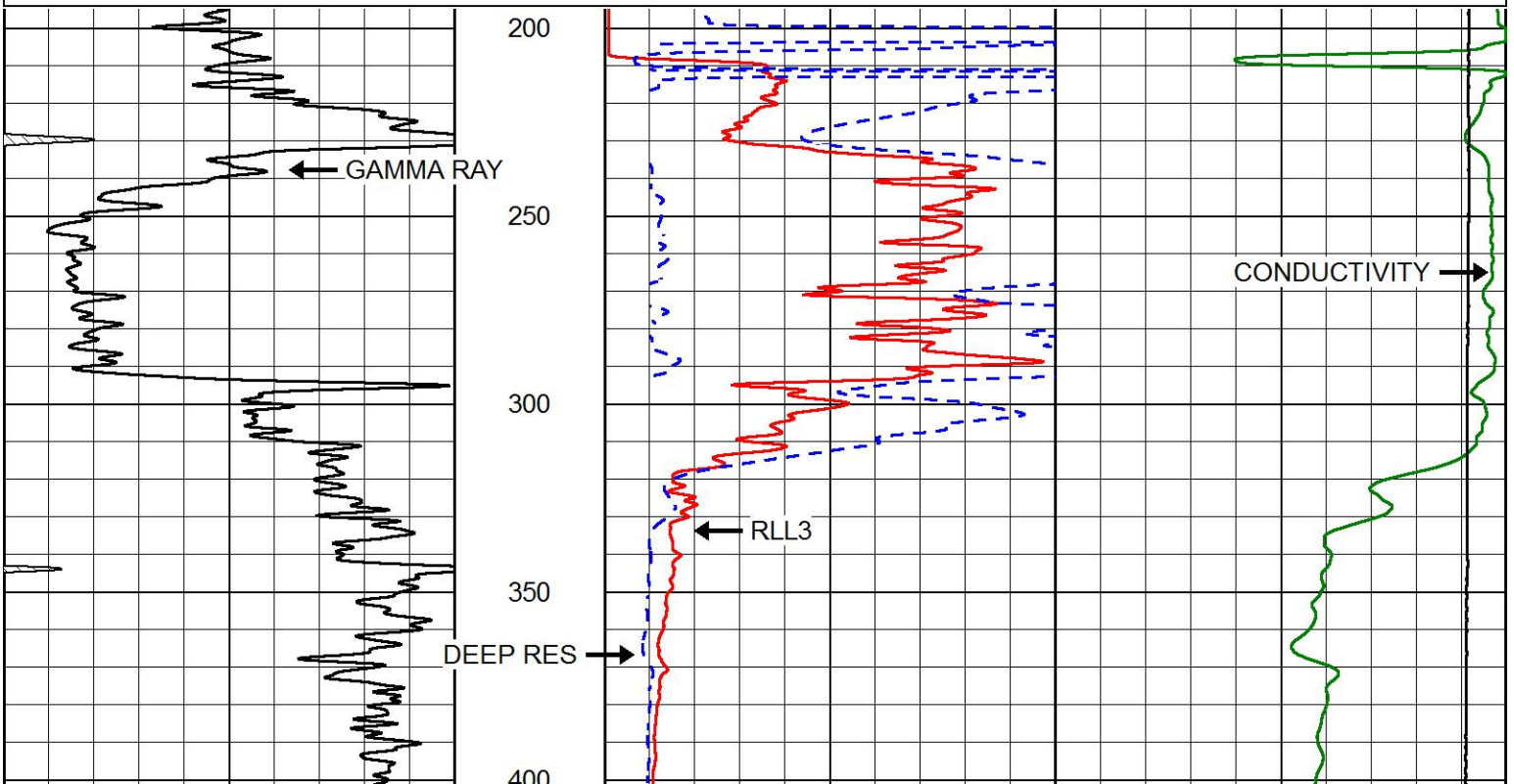
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 Total length: 43.08 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in

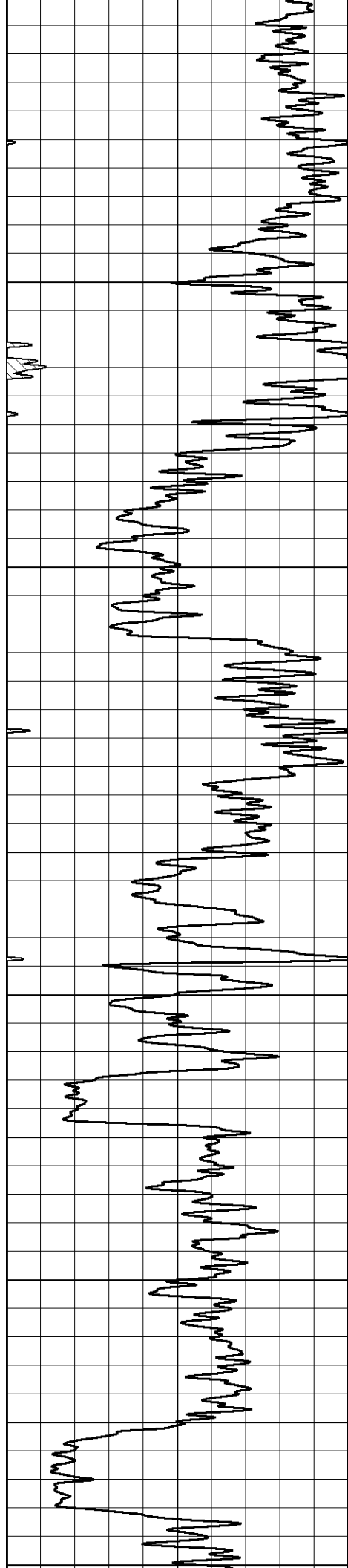


MAIN PASS

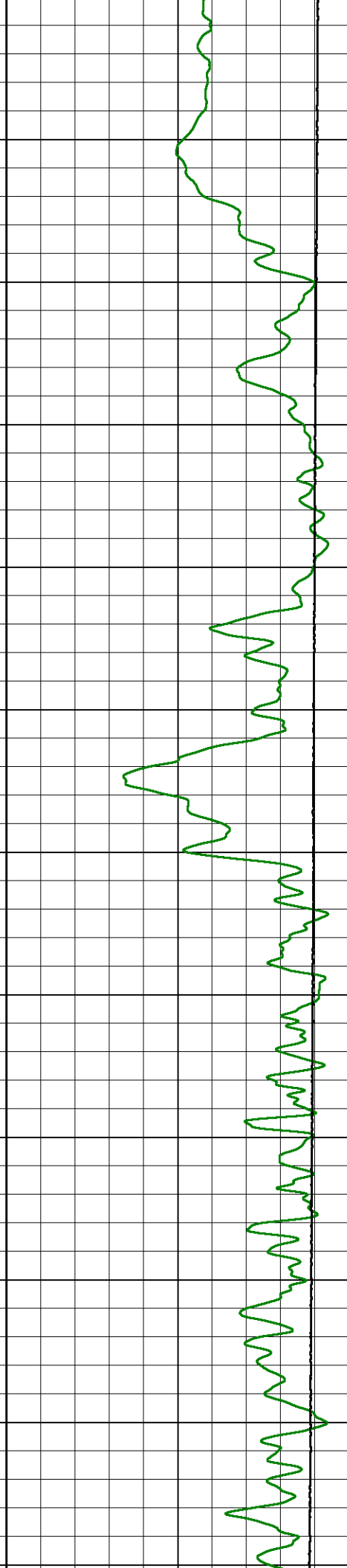
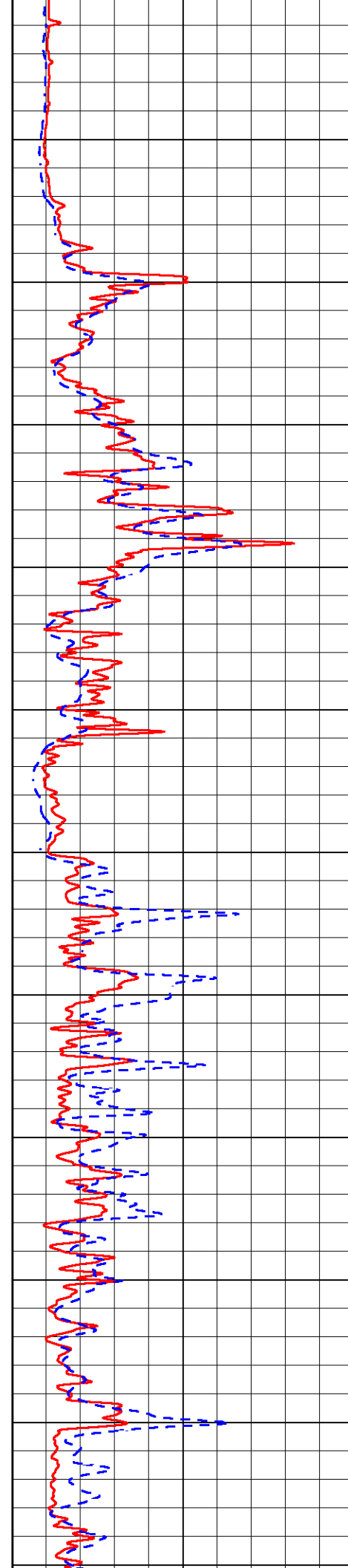
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 Dataset Pathname STACKML/pass4.1
 Presentation Format dil2in
 Dataset Creation Wed Jan 31 20:09:55 2018
 Charted by Depth in Feet scaled 1:600

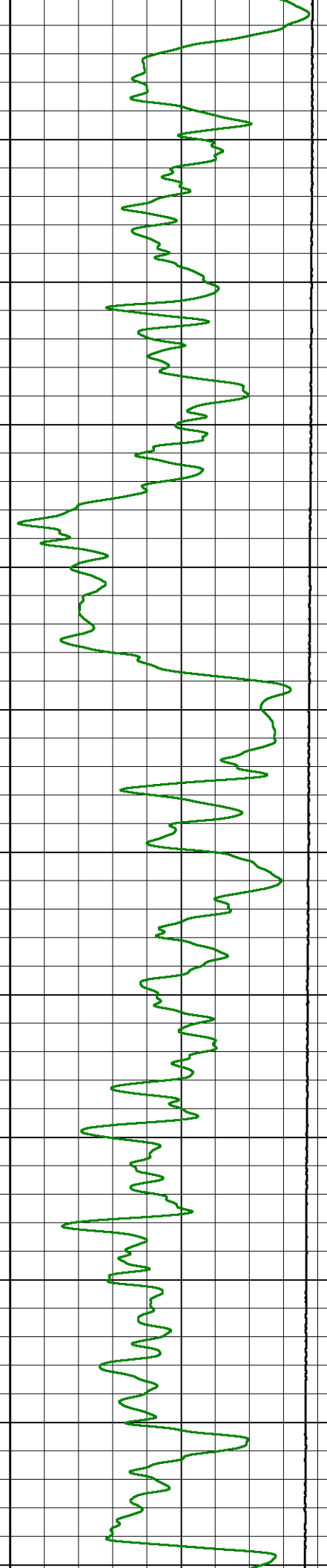
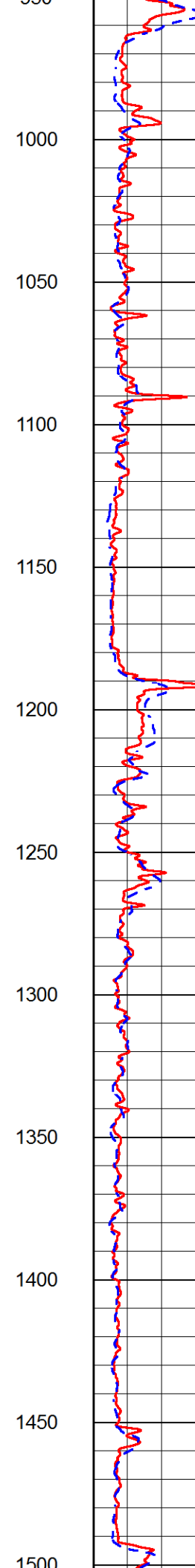
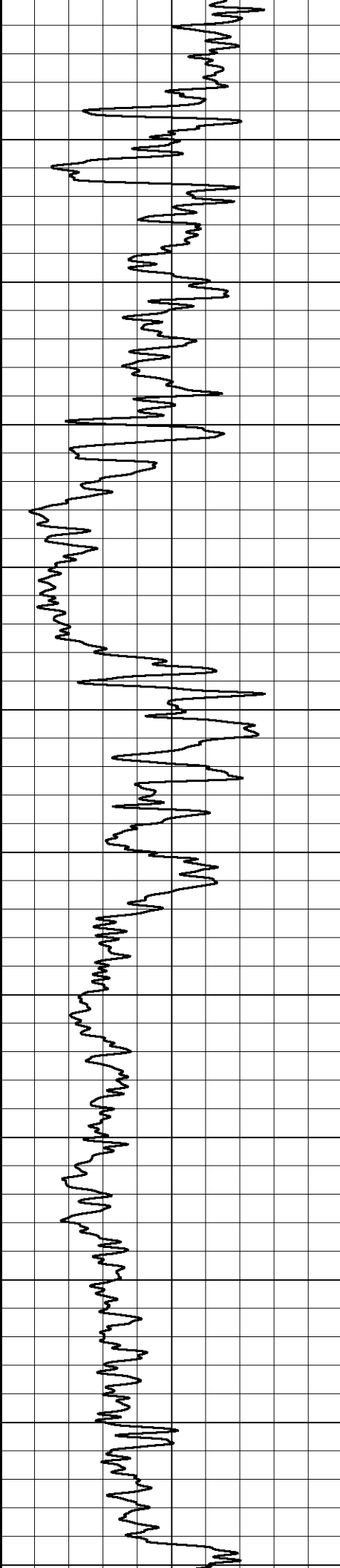
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			15000	Line Tension (lb)	0
			0	RLL3 (Ohm-m)	50
			0	Deep Resistivity (Ohm-m)	50
			50	RLL3 (Ohm-m)	500
			50	Deep Resistivity (Ohm-m)	500

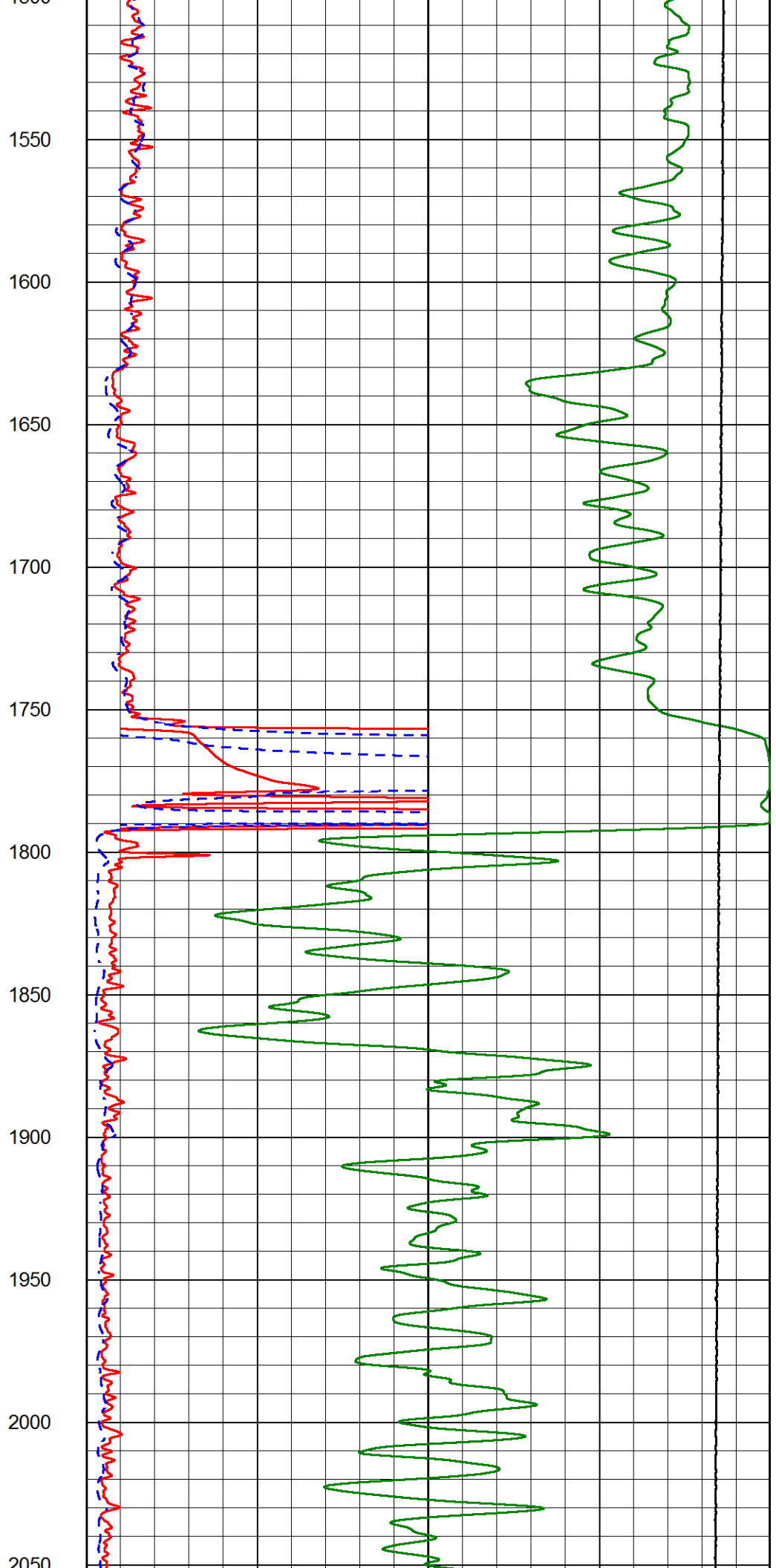
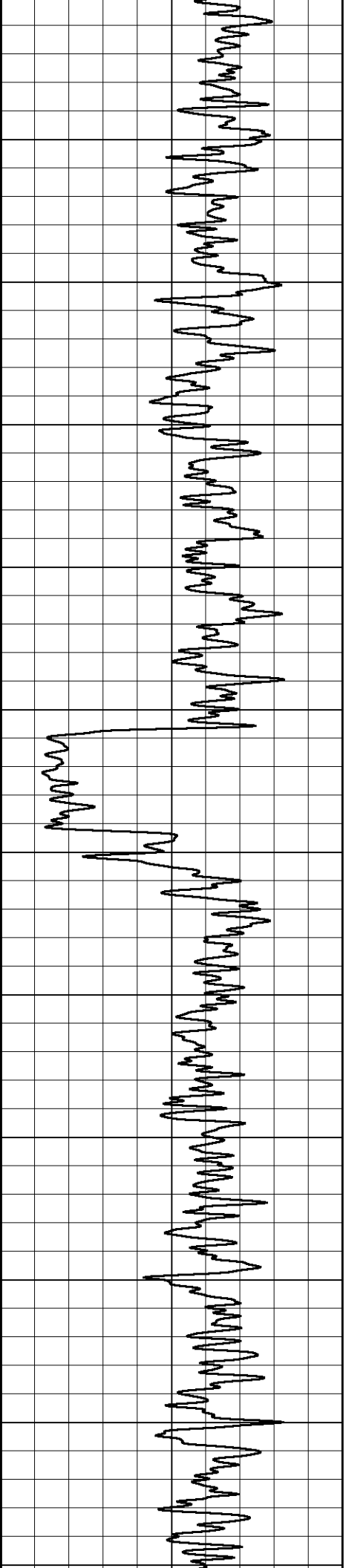


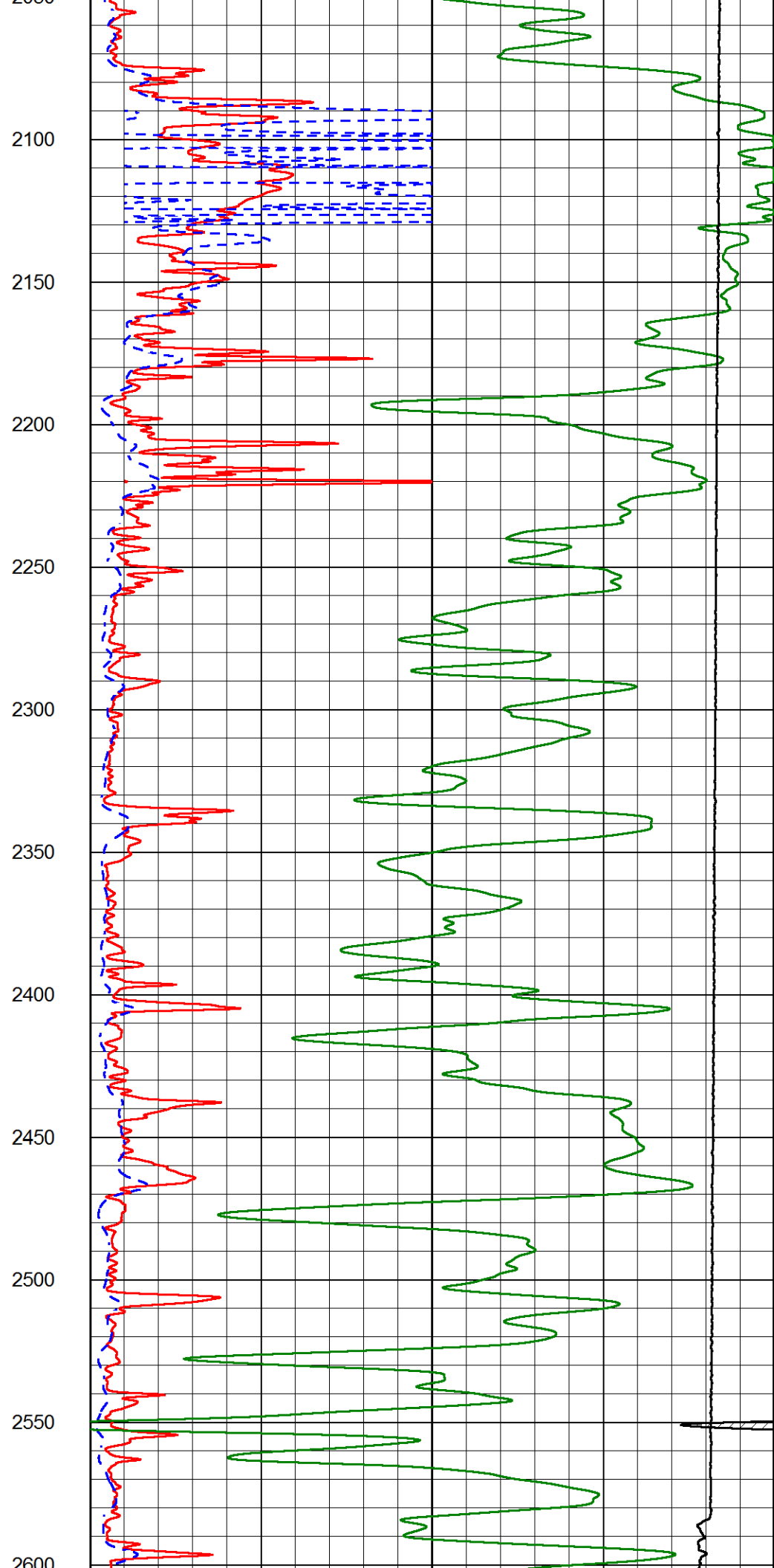
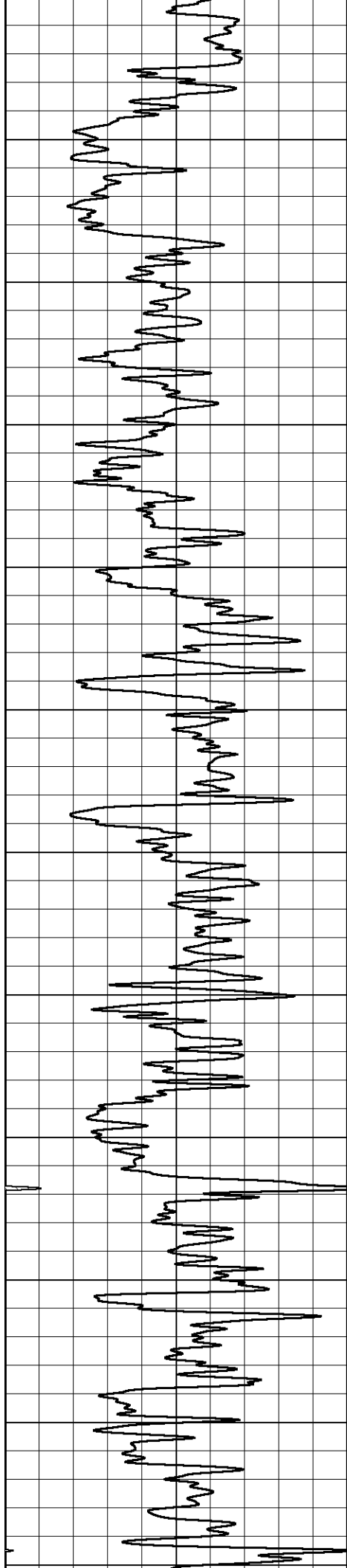


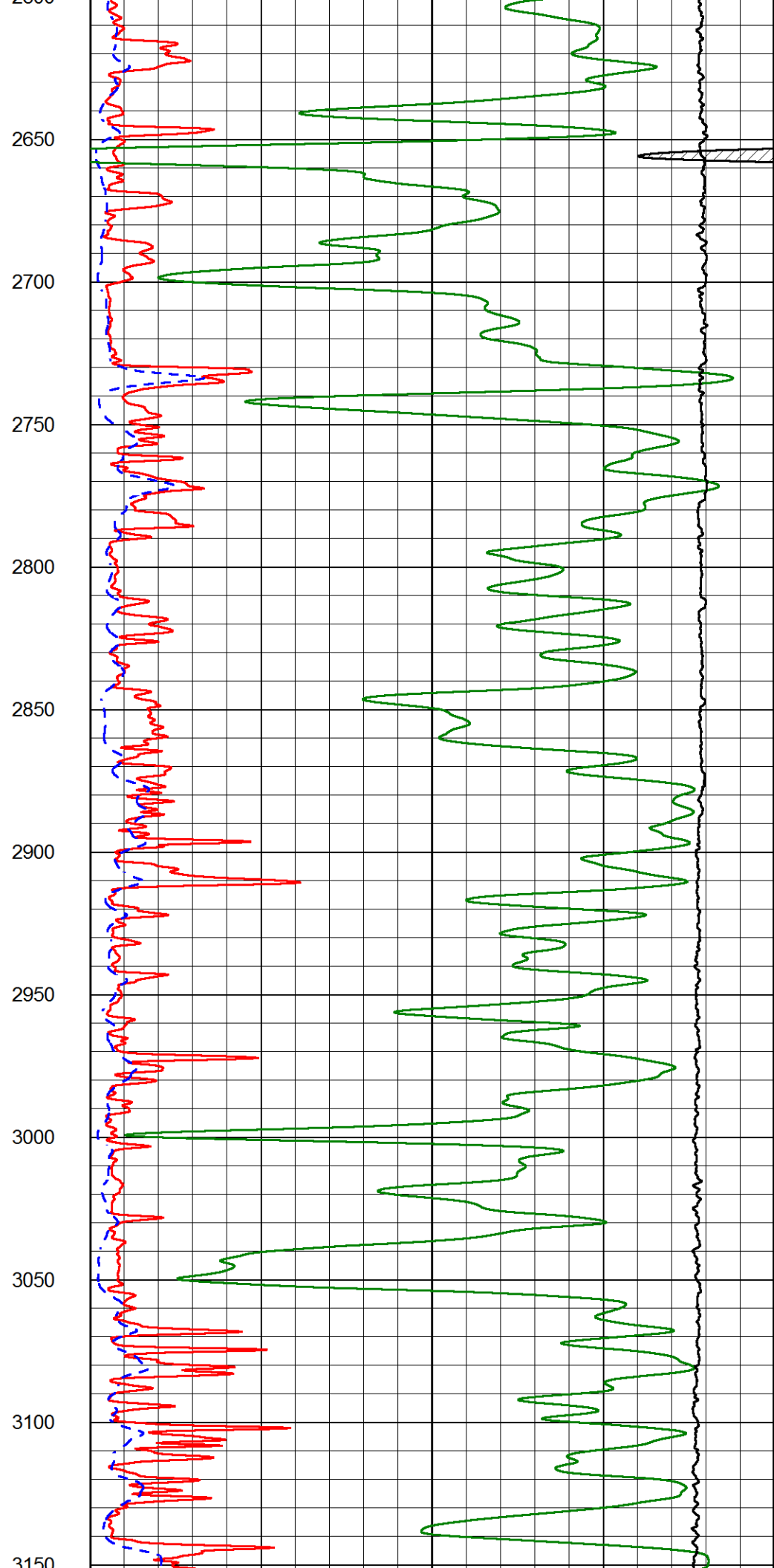
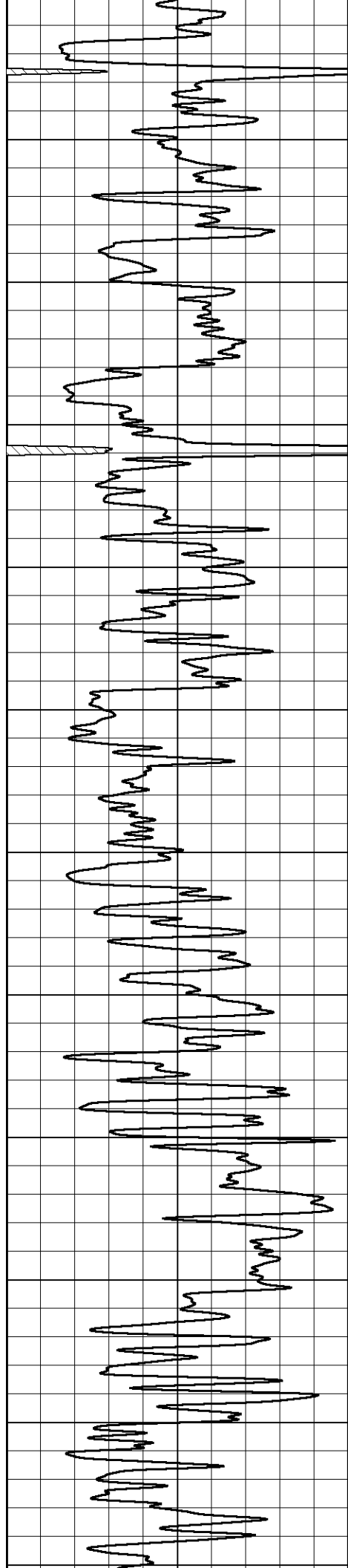
100
450
500
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600
650
700
750
800
850
900
950

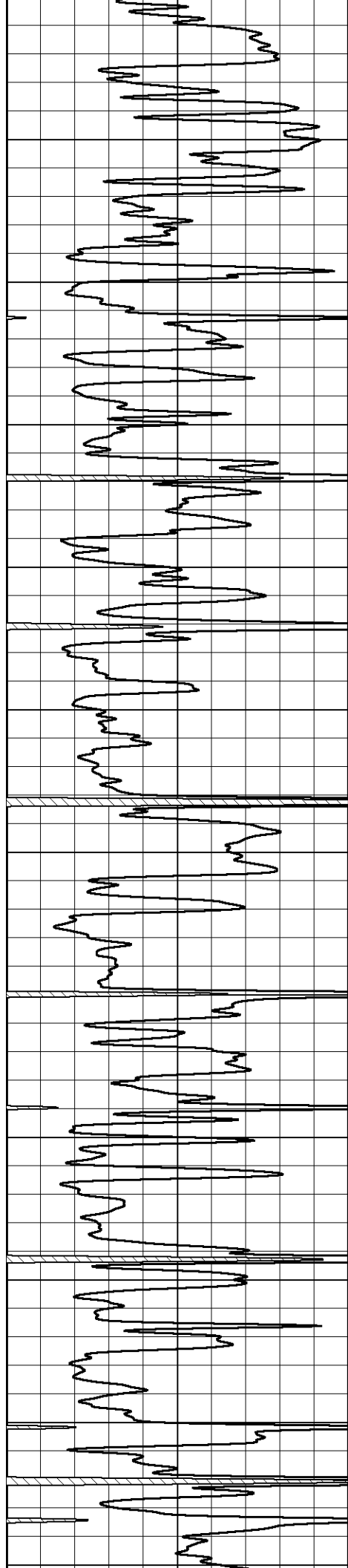




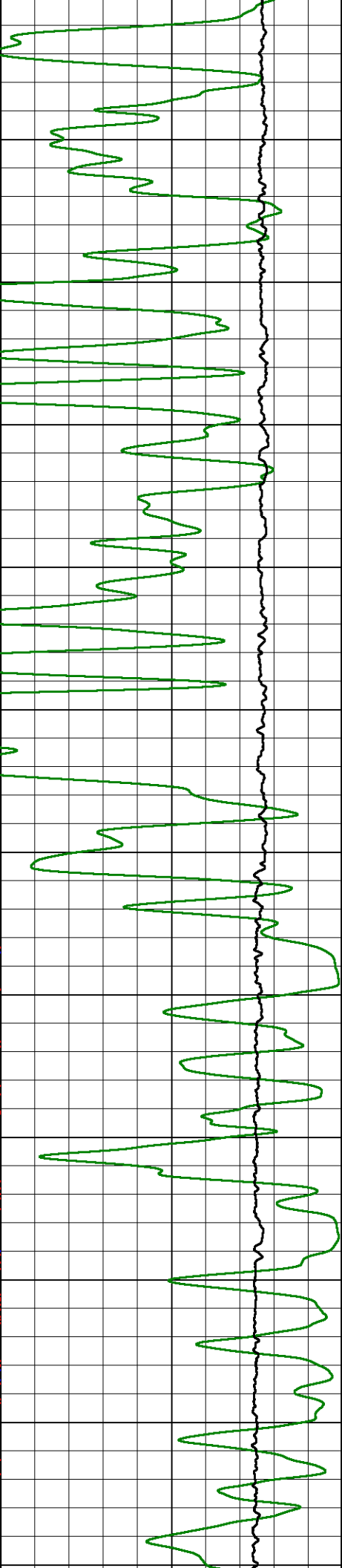
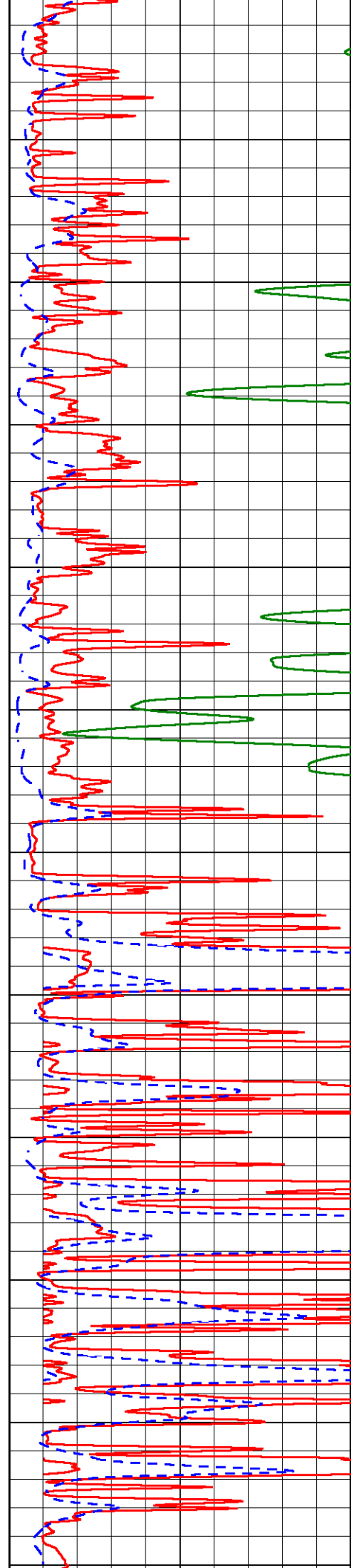


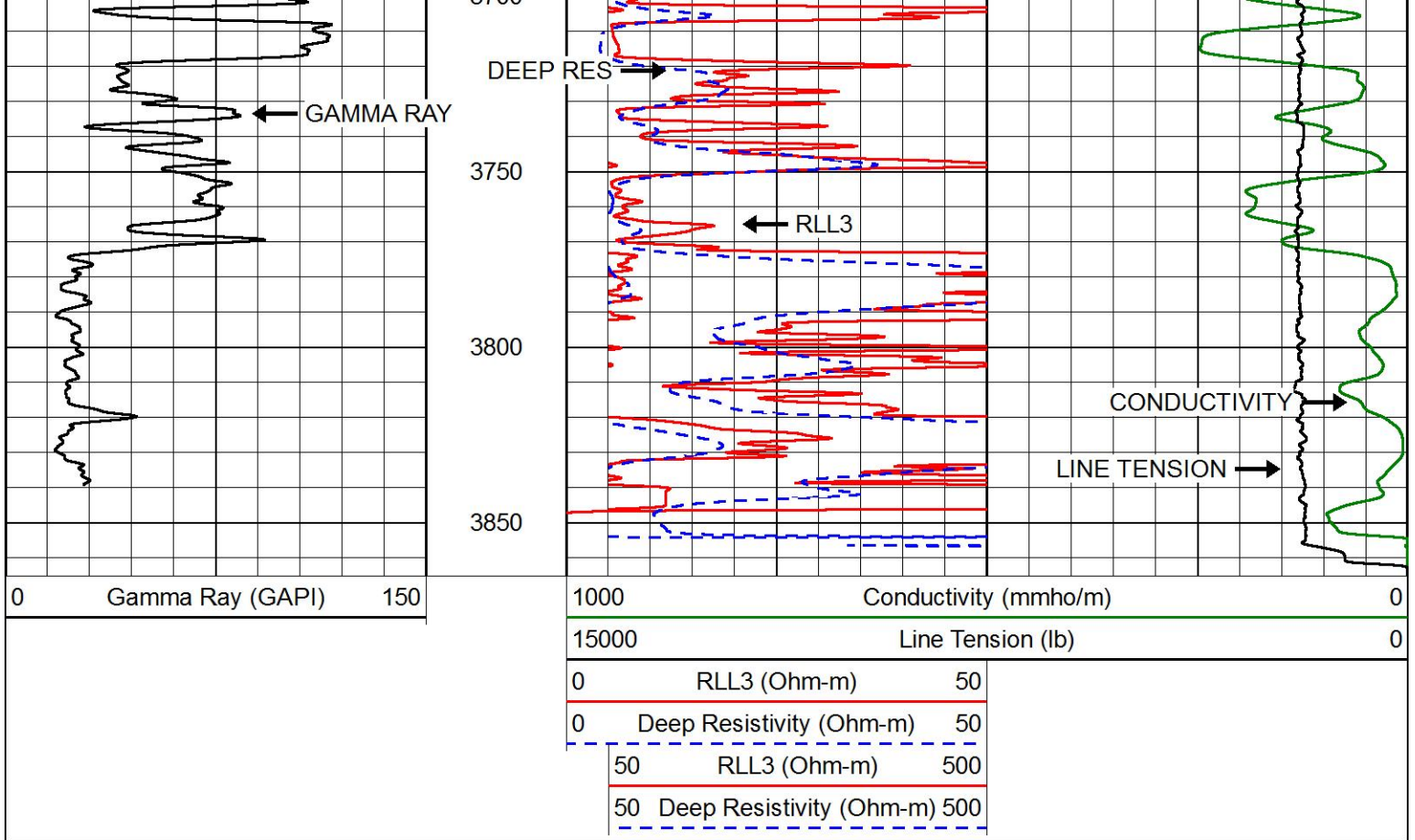






3100
3200
3250
3300
3350
3400
3450
3500
3550
3600
3650
3700

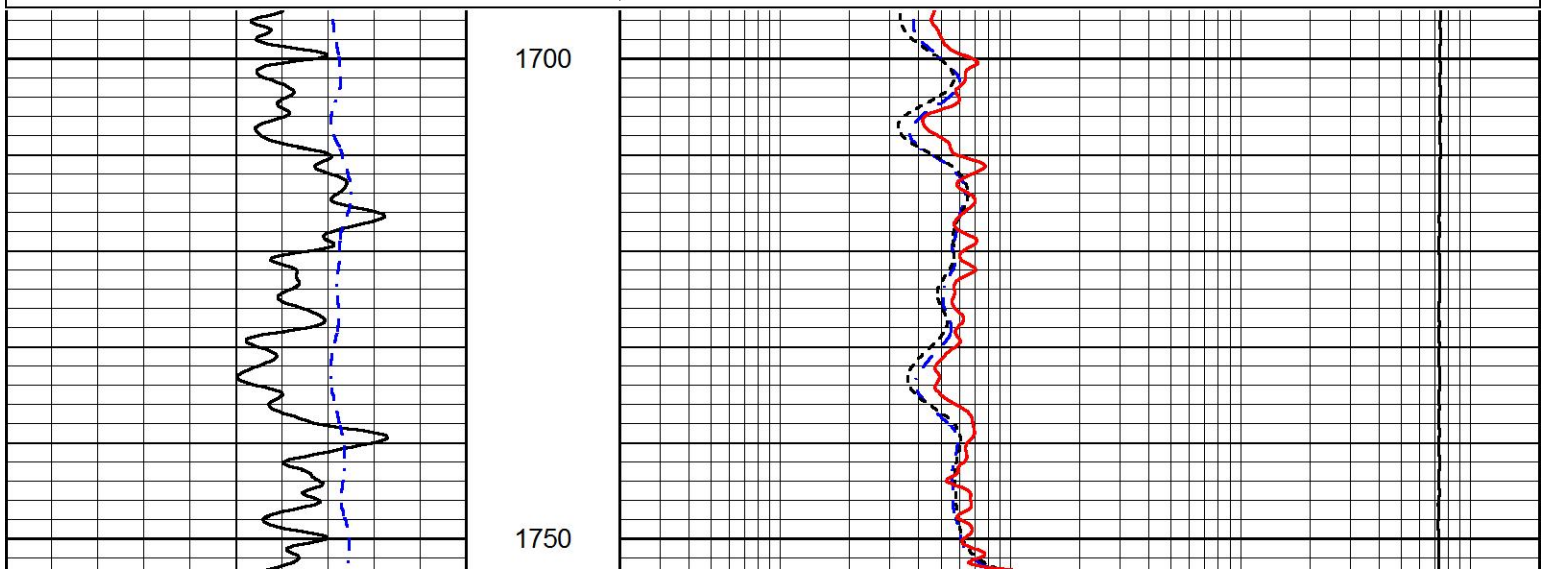


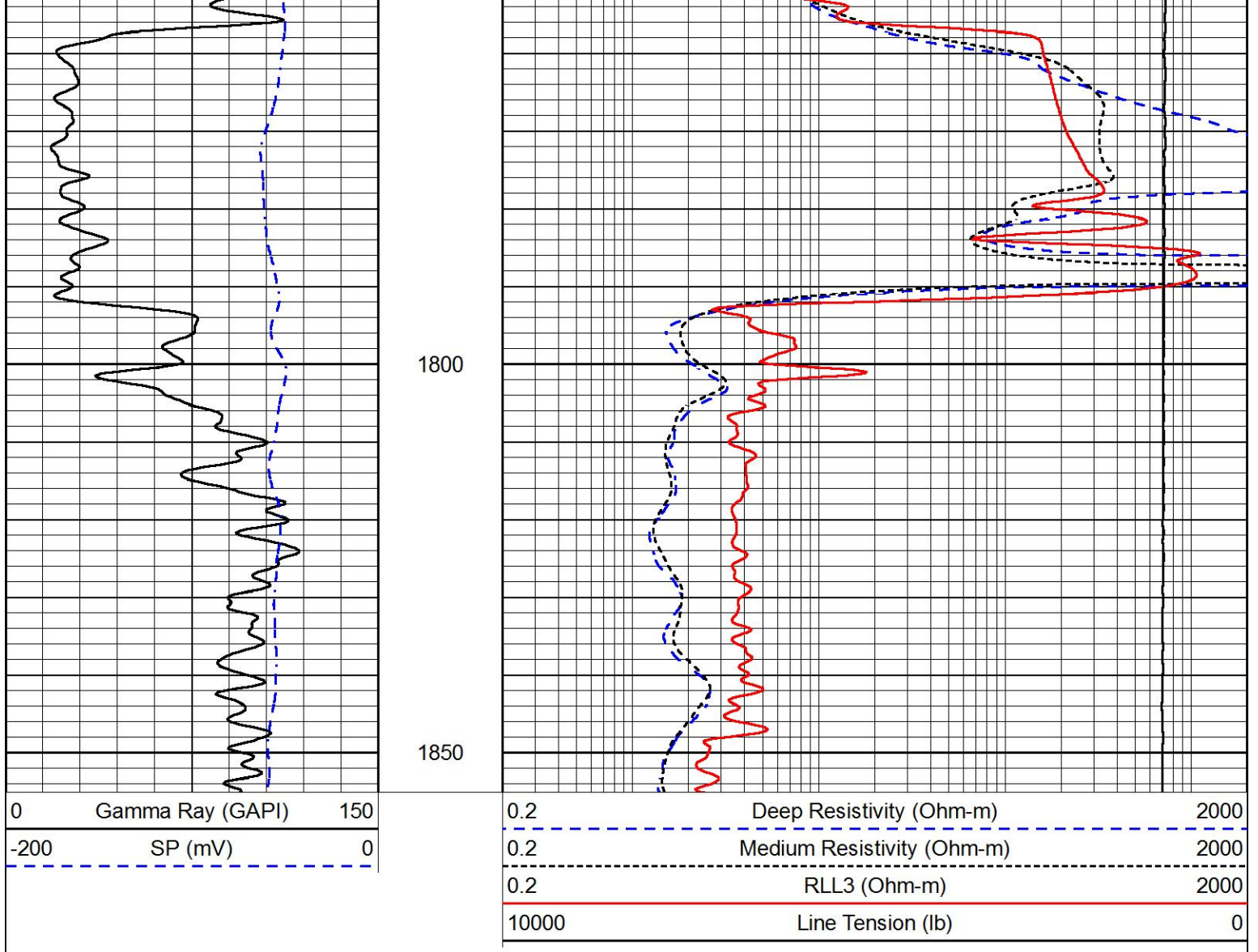


MAIN PASS

Database File meridian_seefield#3.db
 Dataset Pathname STACKML/pass4.1
 Presentation Format dil
 Dataset Creation Wed Jan 31 20:09:55 2018
 Charted by Depth in Feet scaled 1:240

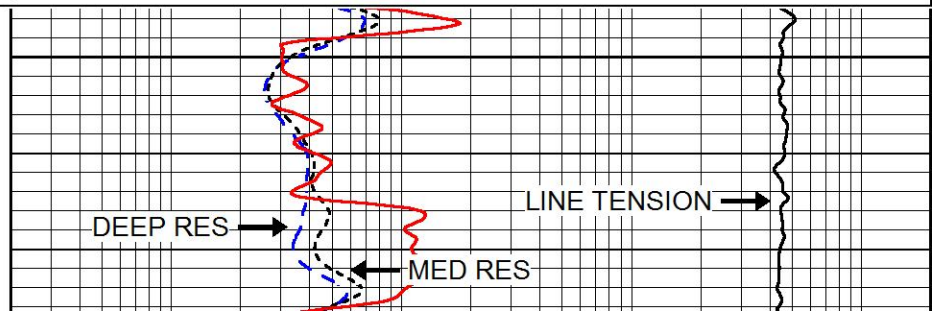
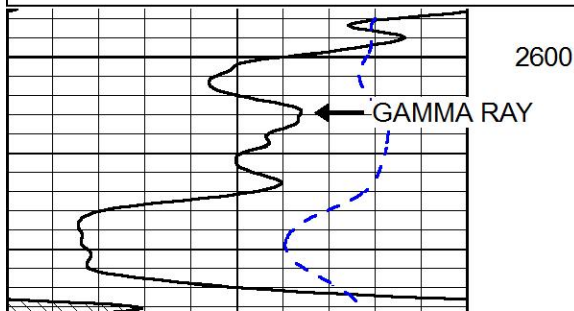
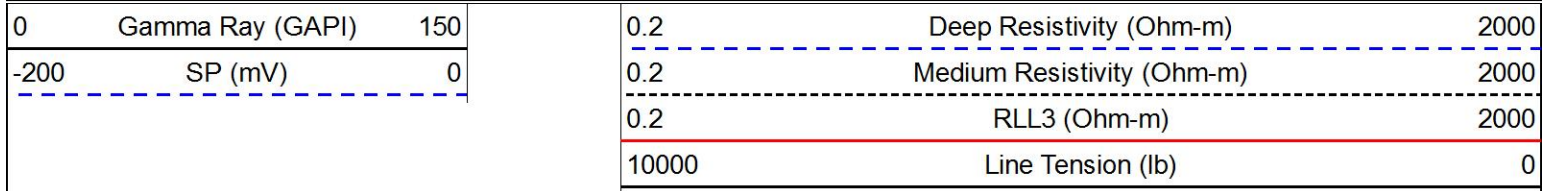
0	Gamma Ray (GAPI)	150	0.2	Deep Resistivity (Ohm-m)	2000
-200	SP (mV)	0	0.2	Medium Resistivity (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000
			10000	Line Tension (lb)	0

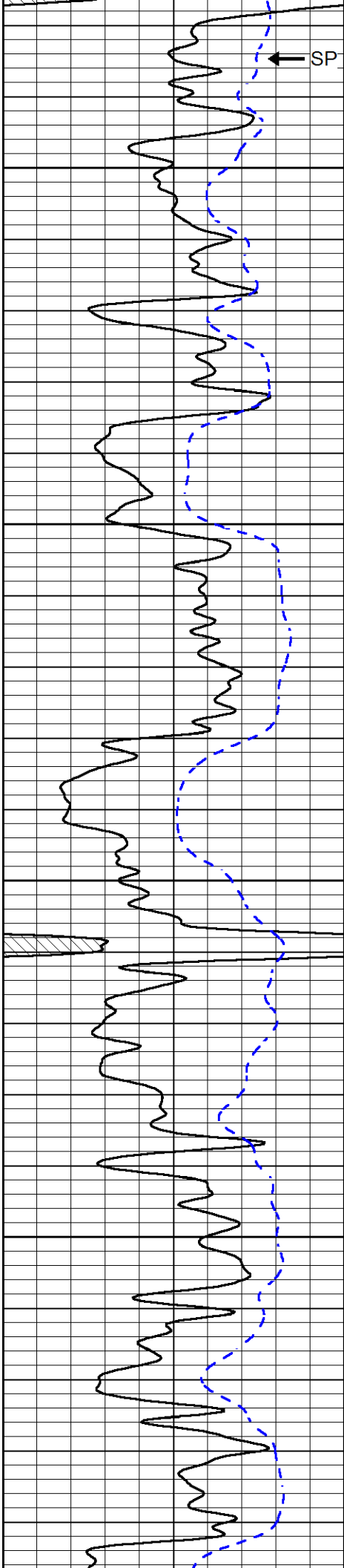




MAIN PASS

Database File: meridian_seefield#3.db
 Dataset Pathname: STACKML/pass3.1
 Presentation Format: dil
 Dataset Creation: Wed Jan 31 20:04:55 2018
 Charted by: Depth in Feet scaled 1:240



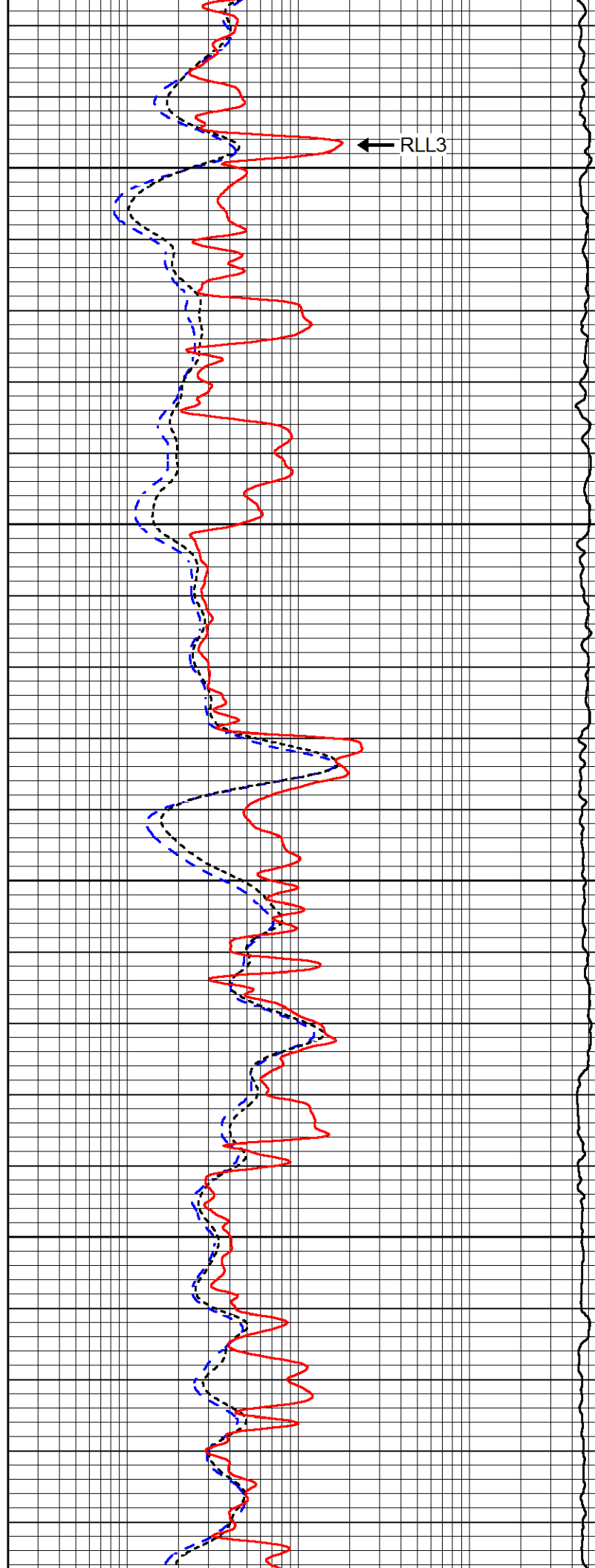


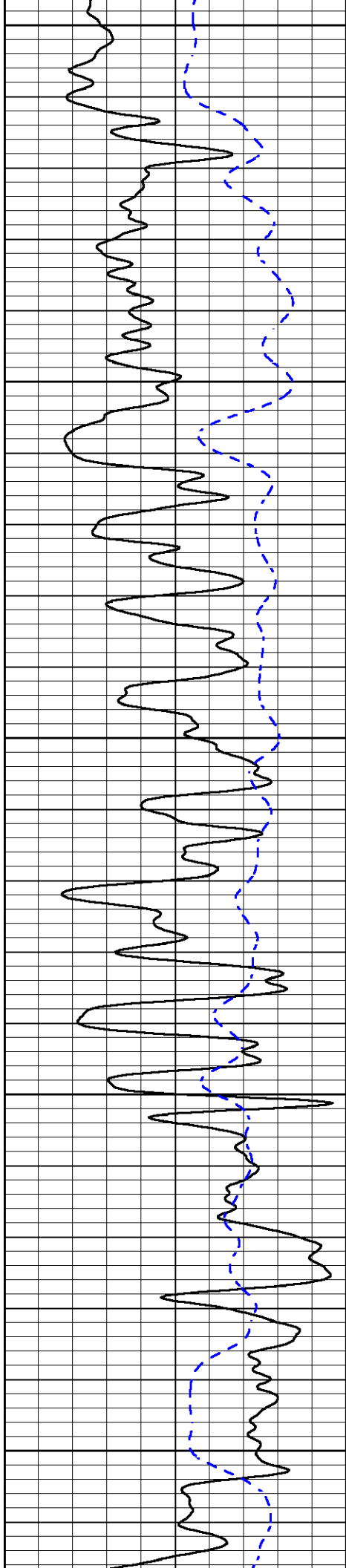
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2700

2750

2800





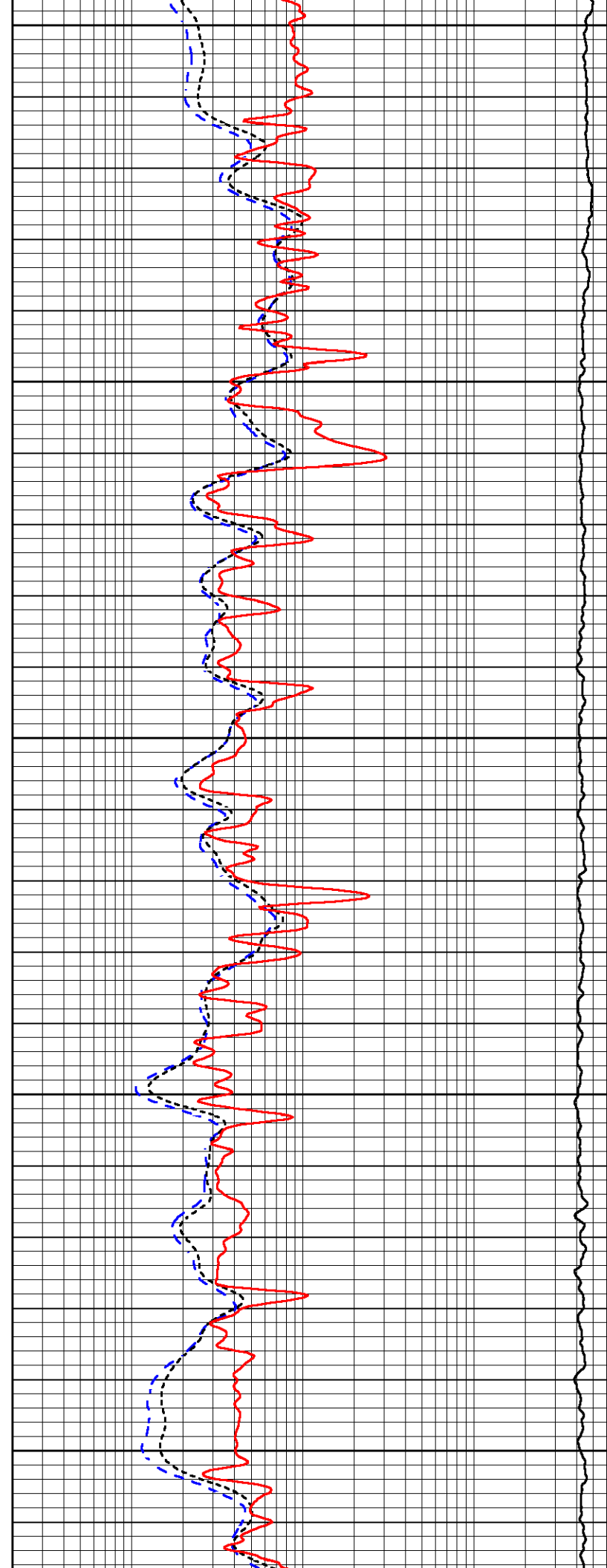
2850

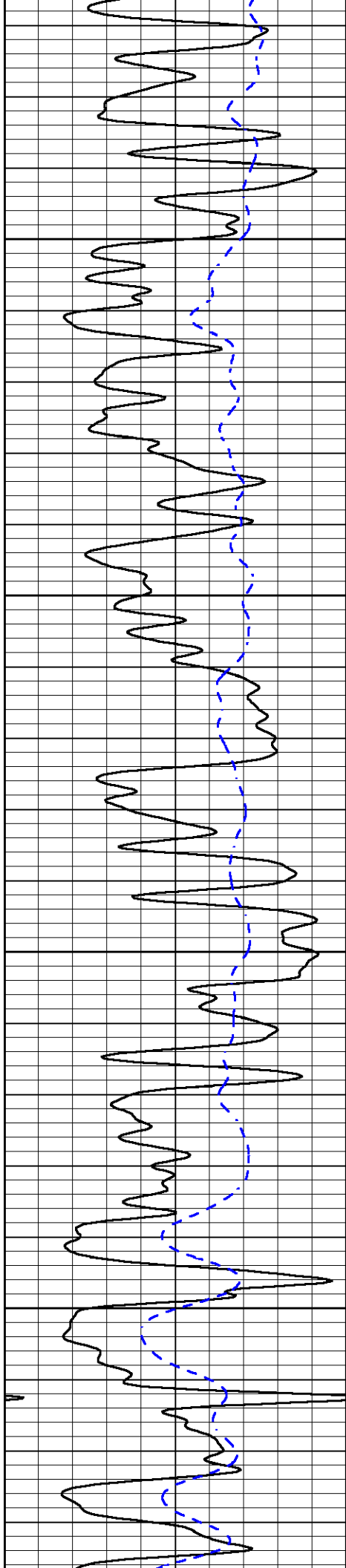
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2950

3000

3050



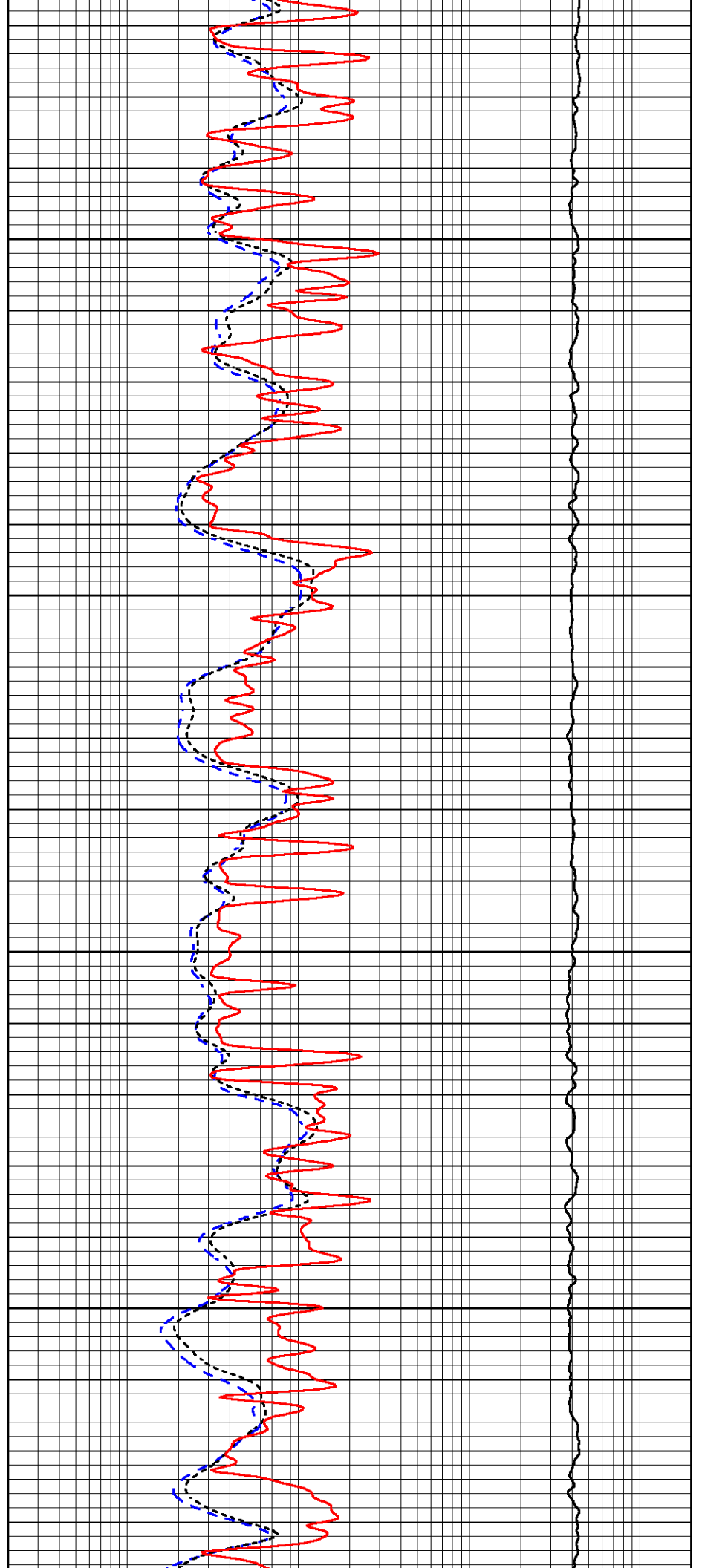


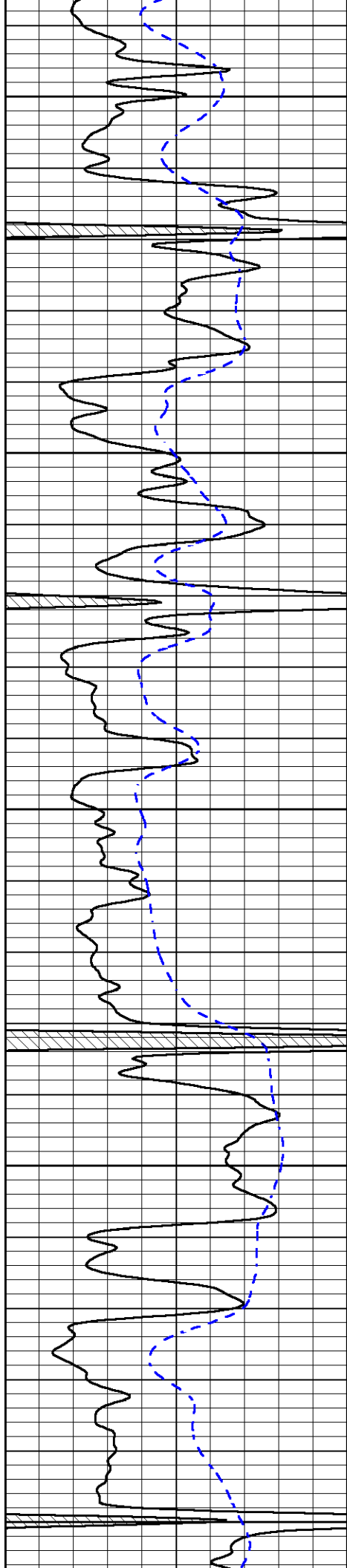
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3150

3200

3250





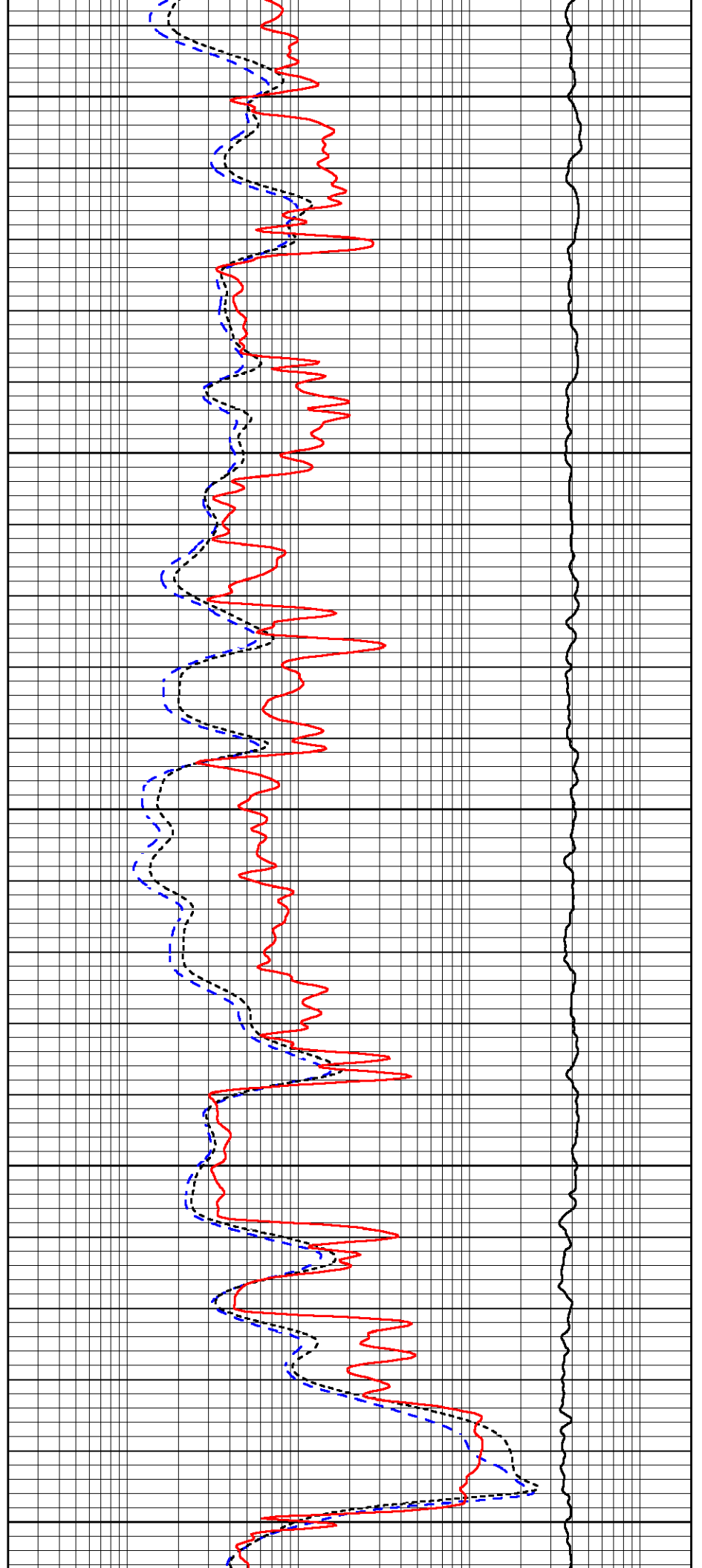
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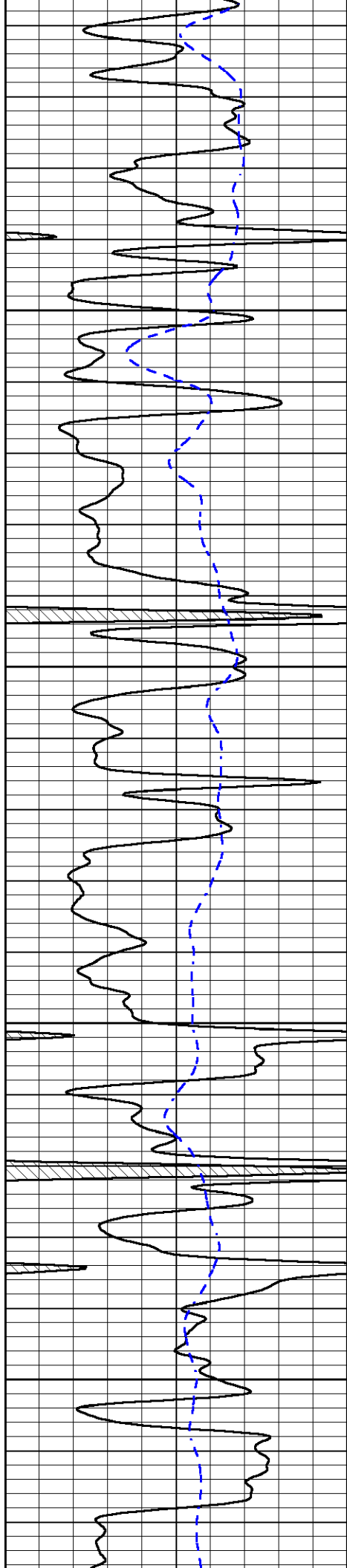
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3400

3450

3500



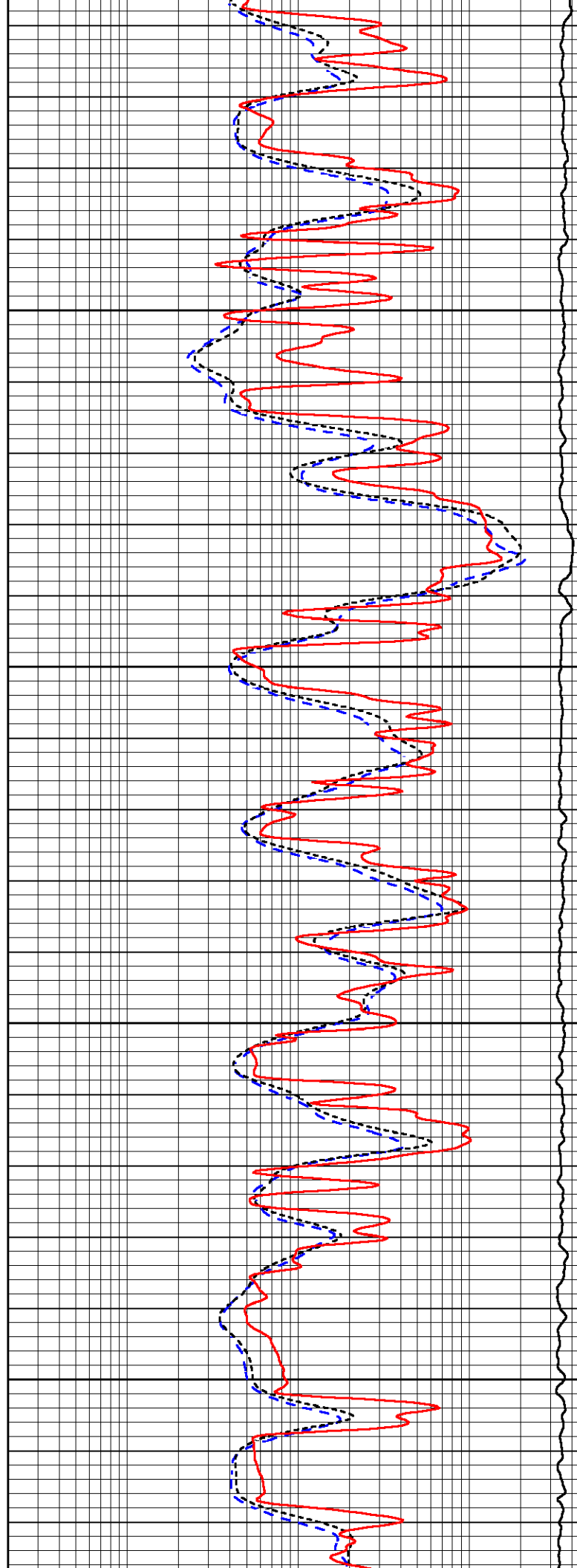


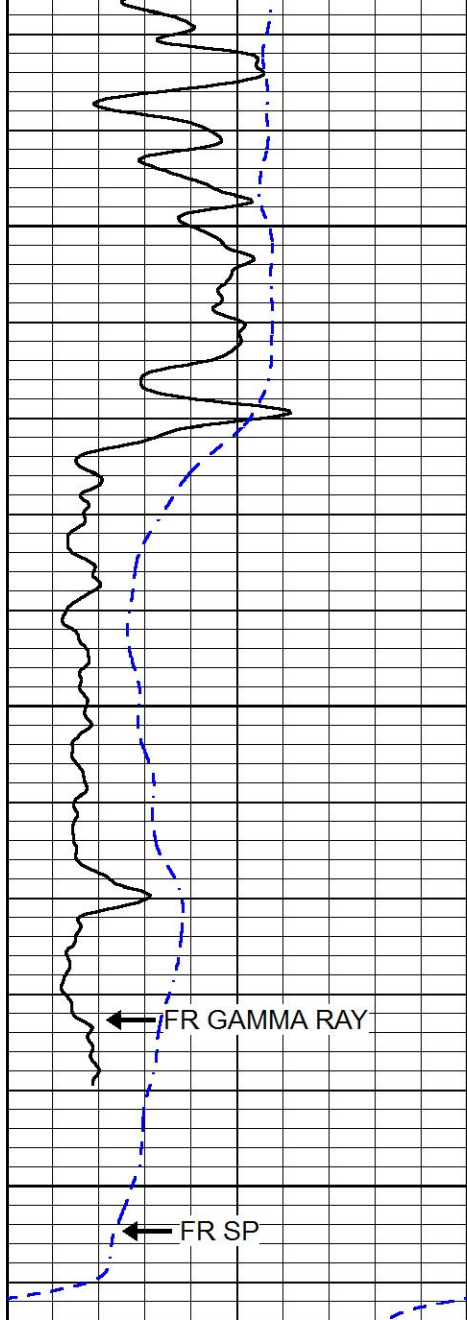
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3600

3650

3700

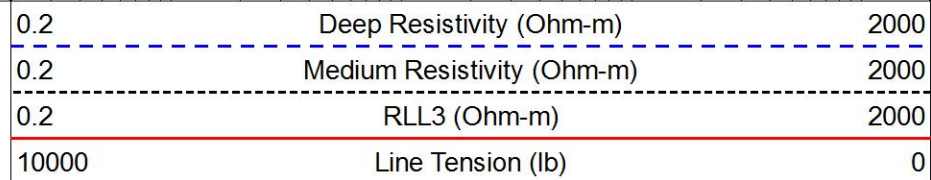
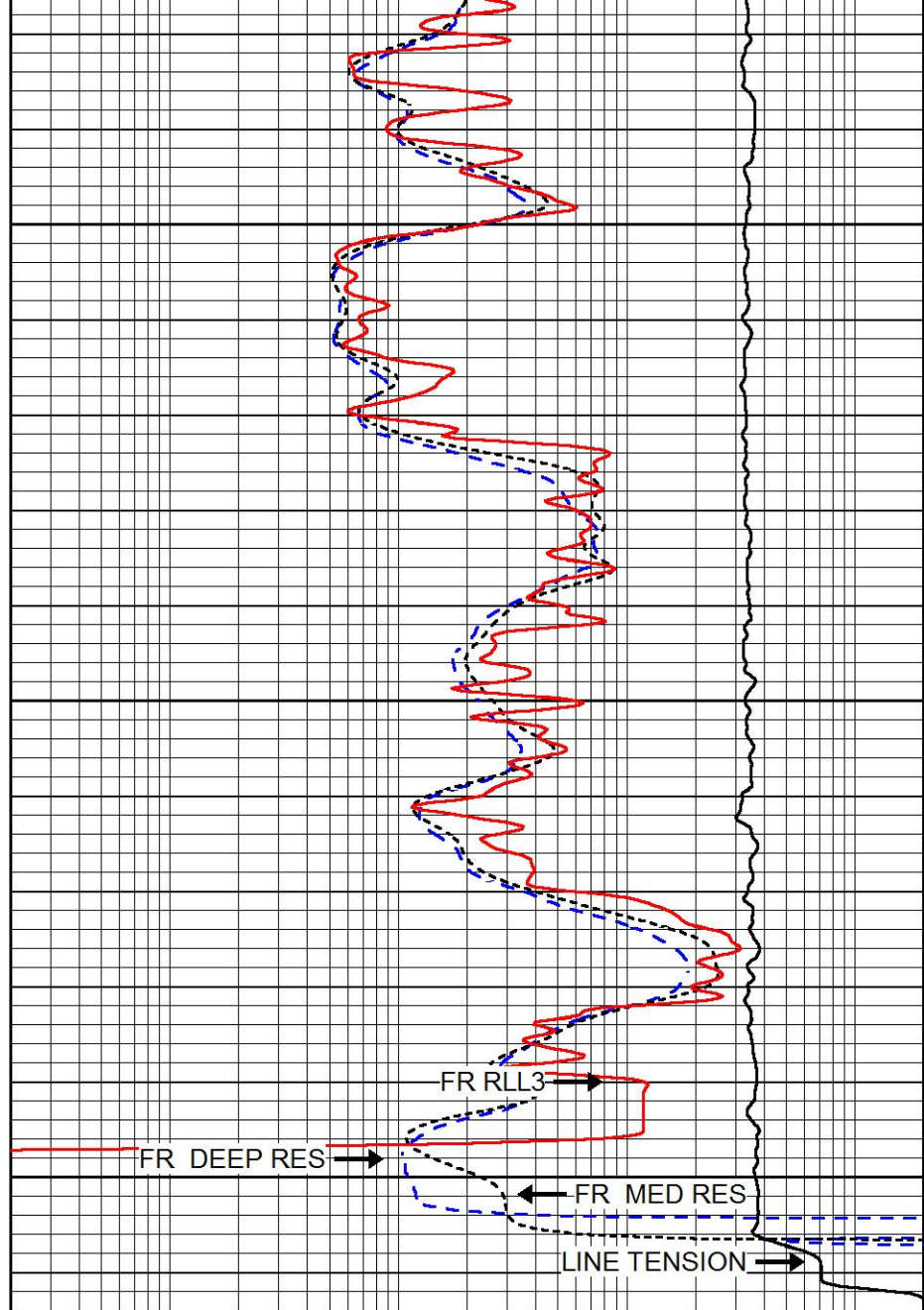
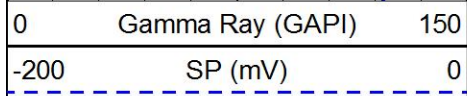




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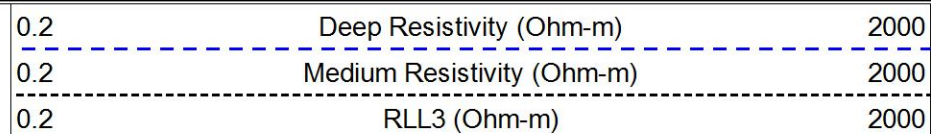
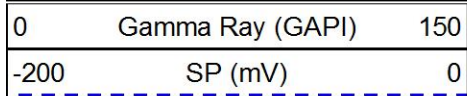
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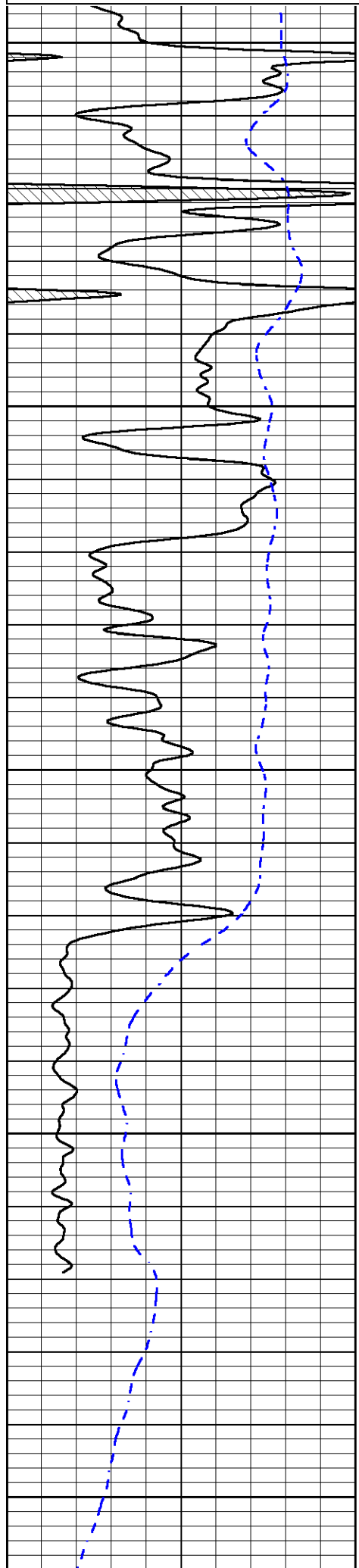
3850



REPEAT SECTION

Database File meridian_seefield#3.db
 Dataset Pathname STACKML/pass2.1
 Presentation Format dil
 Dataset Creation Wed Jan 31 19:26:11 2018
 Charted by Depth in Feet scaled 1:240





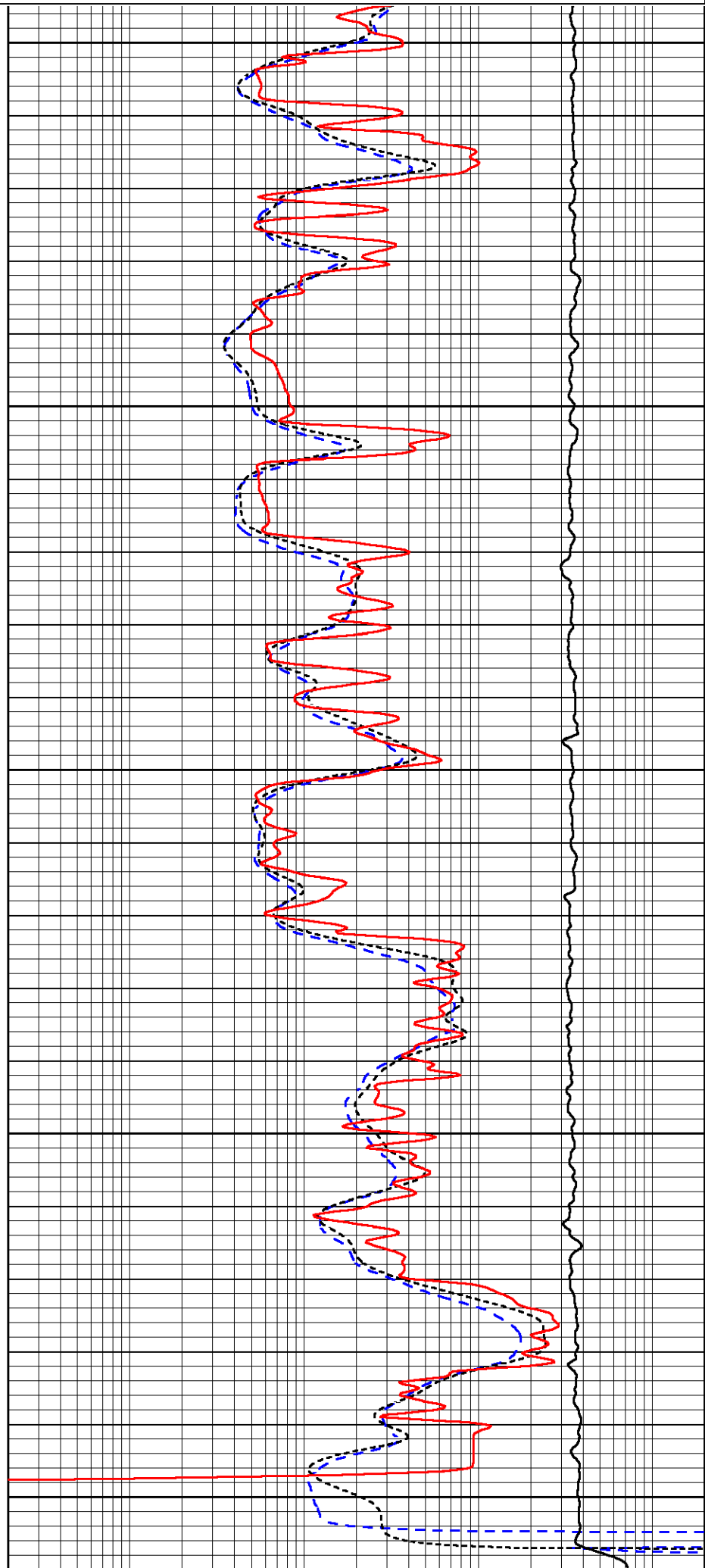
3650

3700

3750

3800

3850



0	Gamma Ray (GAPI)	150
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0

Calibration Report

Database File meridian_seefield#3.db
 Dataset Pathname STACKML/pass3.1
 Dataset Creation Wed Jan 31 20:04:55 2018

Dual Induction Calibration Report

Serial-Model: 933 (HT)-PSI HIGH TEMP
 Calibration Performed: Sun Jan 28 18:12:06 2018

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.000	mmho/m	0.720	-21.000
Medium	142.000	1349.000	0.000	255.000	mmho/m	0.560	-60.500

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
 Performed: Mon Jan 15 11:19:55 2018

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	17000.0000	-0.8000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	18000.0000	-0.3000
Caliper	1.0001	1.1397	6.5000	18.5000	in	100.0000	-97.3500

Compensated Density Calibration Report

Serial-Model: 227-771-M&W
 Source / Verifier: 16955B / 2ci
 Master Calibration Performed: Sat Jan 27 18:11:20 2018

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4919.18	6345.34	cps
Aluminum	2.665	g/cc	911.94	4081.94	cps
Spine Angle = 75.33			Density/Spine Ratio = 0.522		
	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: MON JAN 15 10:30:30 2018

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: Mon Jan 15 11:20:44 2018

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.6000 GAPI/cps



PIONEER
Pioneer Energy Services

Company MERIDIAN ENERGY, INC.
Well SEEFELD #3
Field MOREL
County GRAHAM
State KANSAS



DUAL COMP POROSITY LOG

Pioneer Energy Services

Company **MERIDIAN ENERGY, INC.**
 Well **SEEFELD #3**
 Field **MOREL**
 County **GRAHAM** State **KANSAS**

Company **MERIDIAN ENERGY, INC.**
 Well **SEEFELD #3**
 Field **MOREL**
 County **GRAHAM**
 State **KANSAS**

Location: **API #: 15-065-24146-00-00**
3630' FSL & 330' FEL
SEC 18 TWP 9S RGE 21W
 Permanent Datum **GROUND LEVEL Elevation 2264'**
 Log Measured From **KELLY BUSHING**
 Drilling Measured From **KELLY BUSHING**
 Other Services **DIL/MEL**
 Elevation **K.B. 2270'**
D.F. N/A
G.L. 2264'

Date	1/31/2018
Run Number	ONE
Type Log	CNL/CDL
Depth Driller	3855'
Depth Logger	3856'
Bottom Logged Interval	3845'
Top Logged Interval	2600'
Type Fluid In Hole	CHEMICAL
Salinity, PPM CL	5000
Density	9.2
Level	FULL
Max. Rec. Temp. F	115
Operating Rig Time	3 HOURS
Equipment -- Location	91 HAYS
Recorded By	D. SCHMIDT
Witnessed By	MAXWELL LAFON

Borehole Record

Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0'	210'	8.625"	23#	0	210'
TWO	7.875"	210'	TD				

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0'	210'	8.625"	23#	0	210'
TWO	7.875"	210'	TD				

<<< Fold Here >>>

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.

**BOGUE,
 SOUTH TO K ROAD, 1/2 SOUTH,
 WEST INTO**

Log Measured From: KELLY BUSHING 6 Ft. Above Permanent Datum

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www.pioneerenergy.com 785-625-3858

Your Pioneer Energy Services Crew

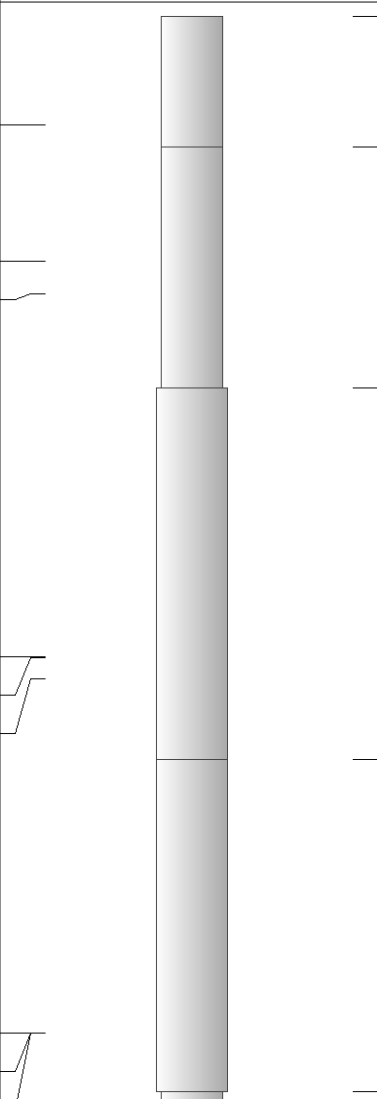
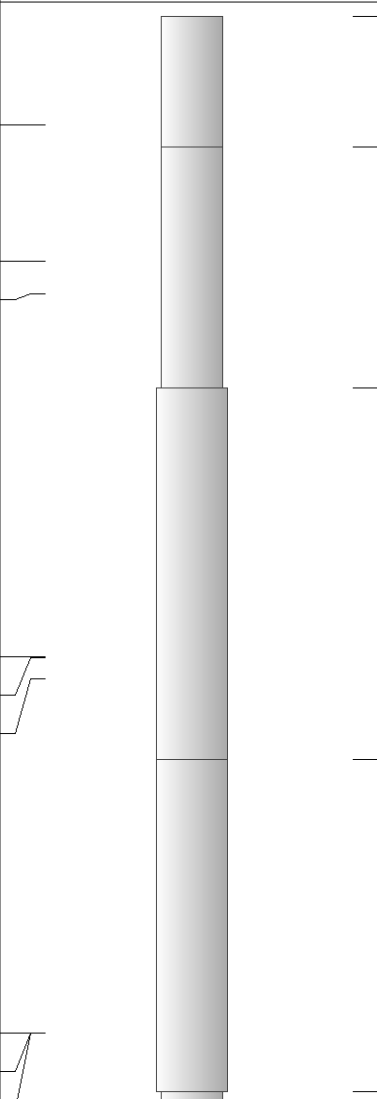
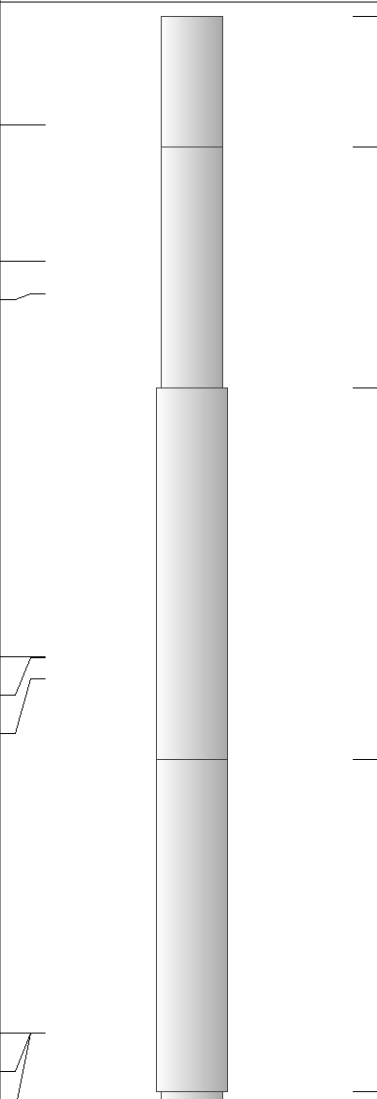
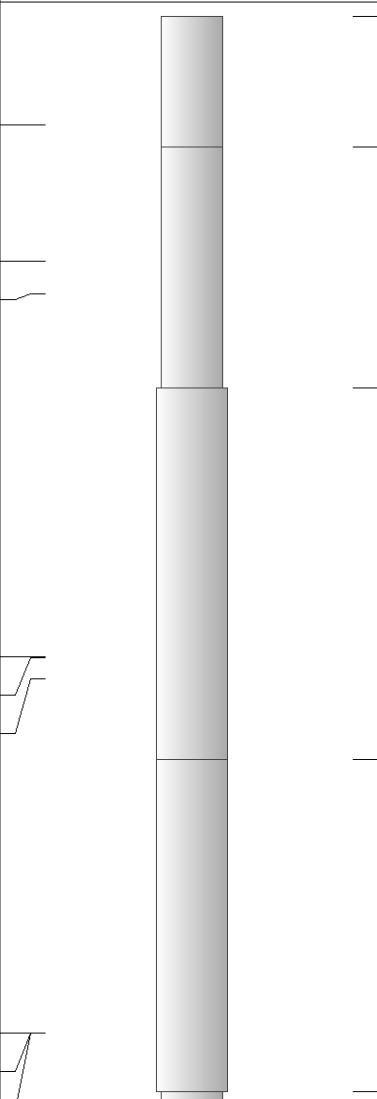
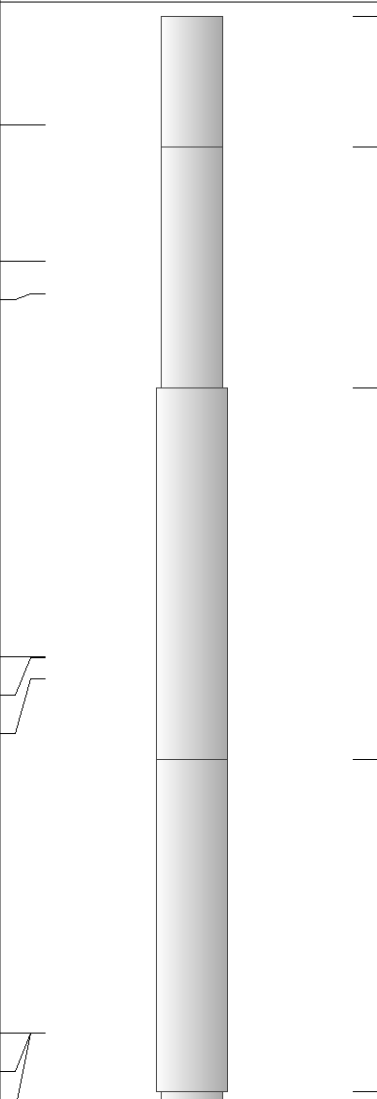
Engineer: D. SCHMIDT
 Operator:
 Operator:
 Operator:

This Log Record Was Witnessed By

Primary Witness: MAXWELL LAFON
 Secondary Witness:
 Secondary Witness:
 Secondary Witness:

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	-237	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	50	0	5.5	0	3856	115	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (227-771)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics	7.58	4.00	65.00
RLL3F RLL3	15.80 15.80					

CILD 8.00

CILM 4.70

SP 0.20

DIL-PSI HIGH TEMP (933 (HT))

18.50

3.50

220.00

Dataset: meridian_seefield#3.db: field/well/STACKML/pass3.1
 Total length: 43.08 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in



MAIN PASS

Database File meridian_seefield#3.db
 Dataset Pathname STACKML/pass3.1
 Presentation Format cdl
 Dataset Creation Wed Jan 31 20:04:55 2018
 Charted by Depth in Feet scaled 1:600

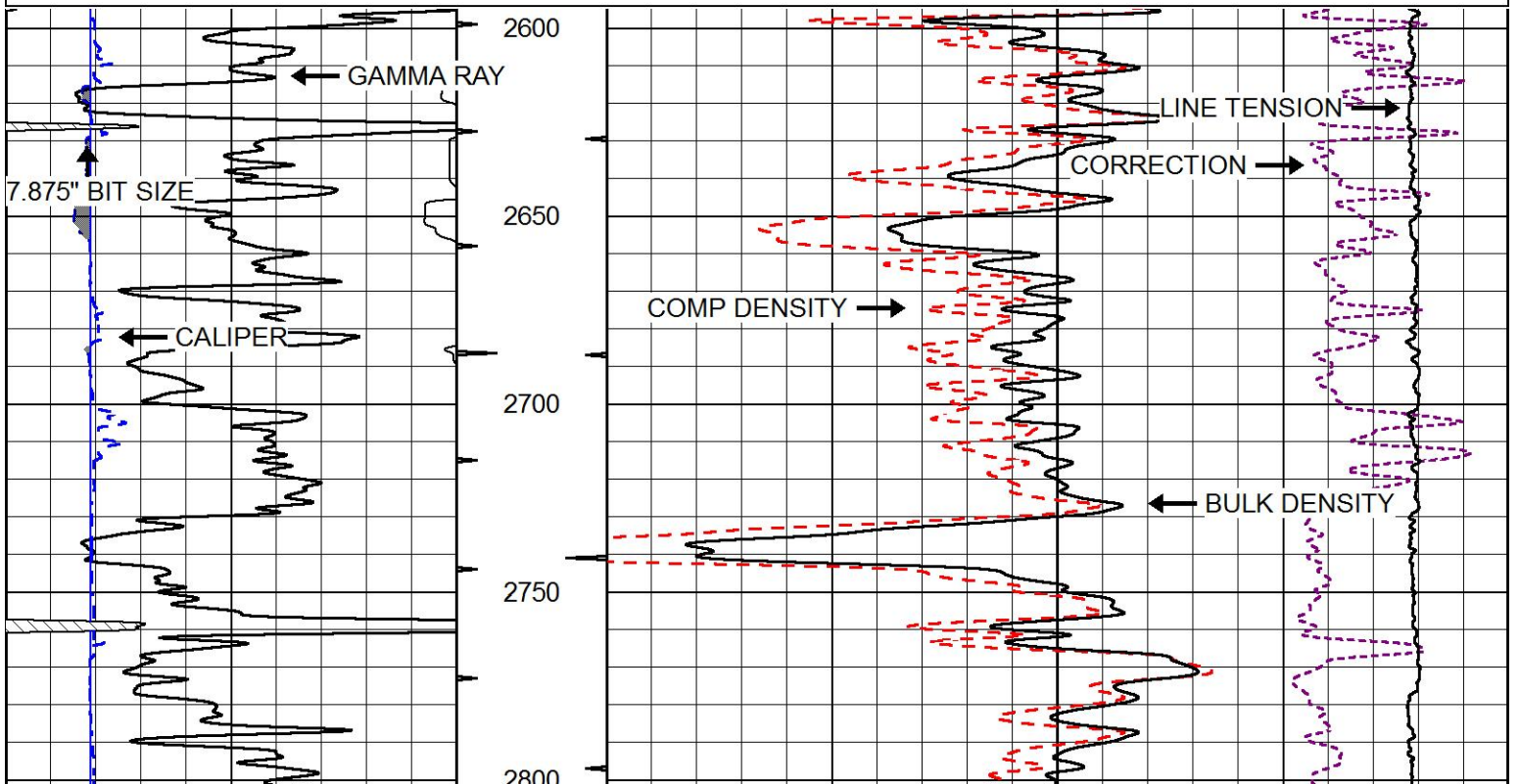
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

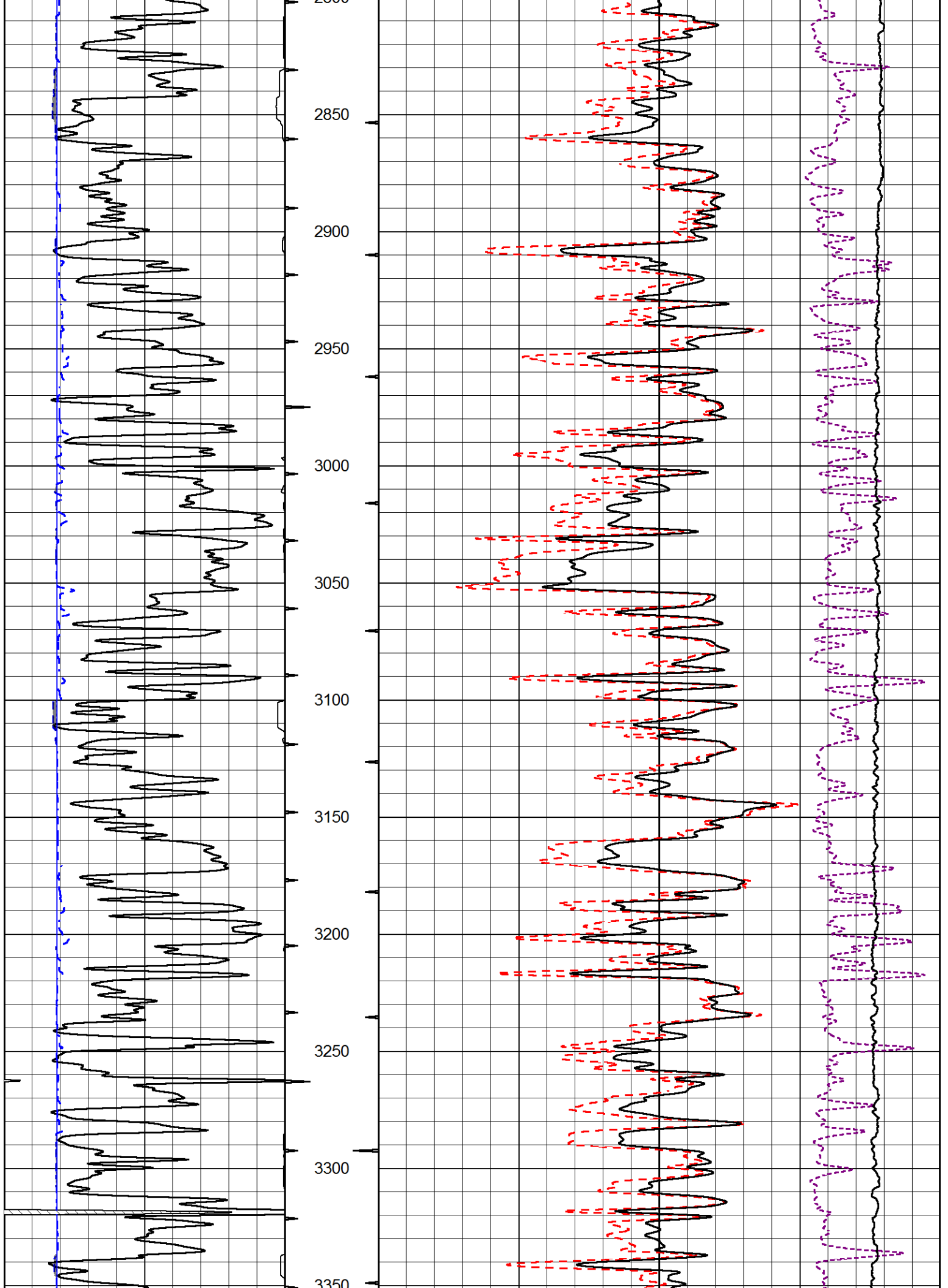
Compensated Density (2.71 MA)	
30	(pu) -10

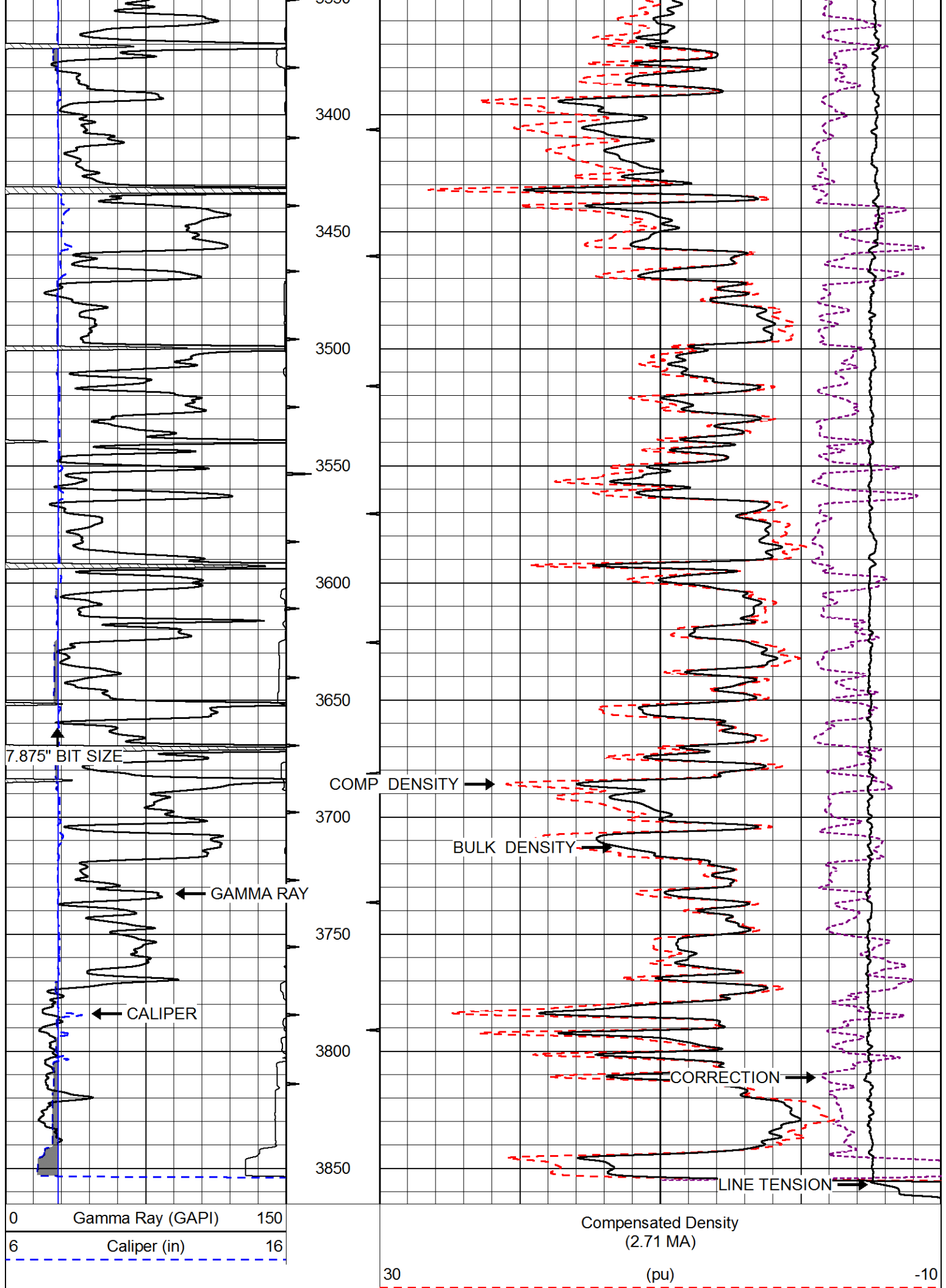
2	Bulk Density (g/cc) 3

15000	Line Tension (lb) 0

-0.25	Correction (g/cc) 0.25







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

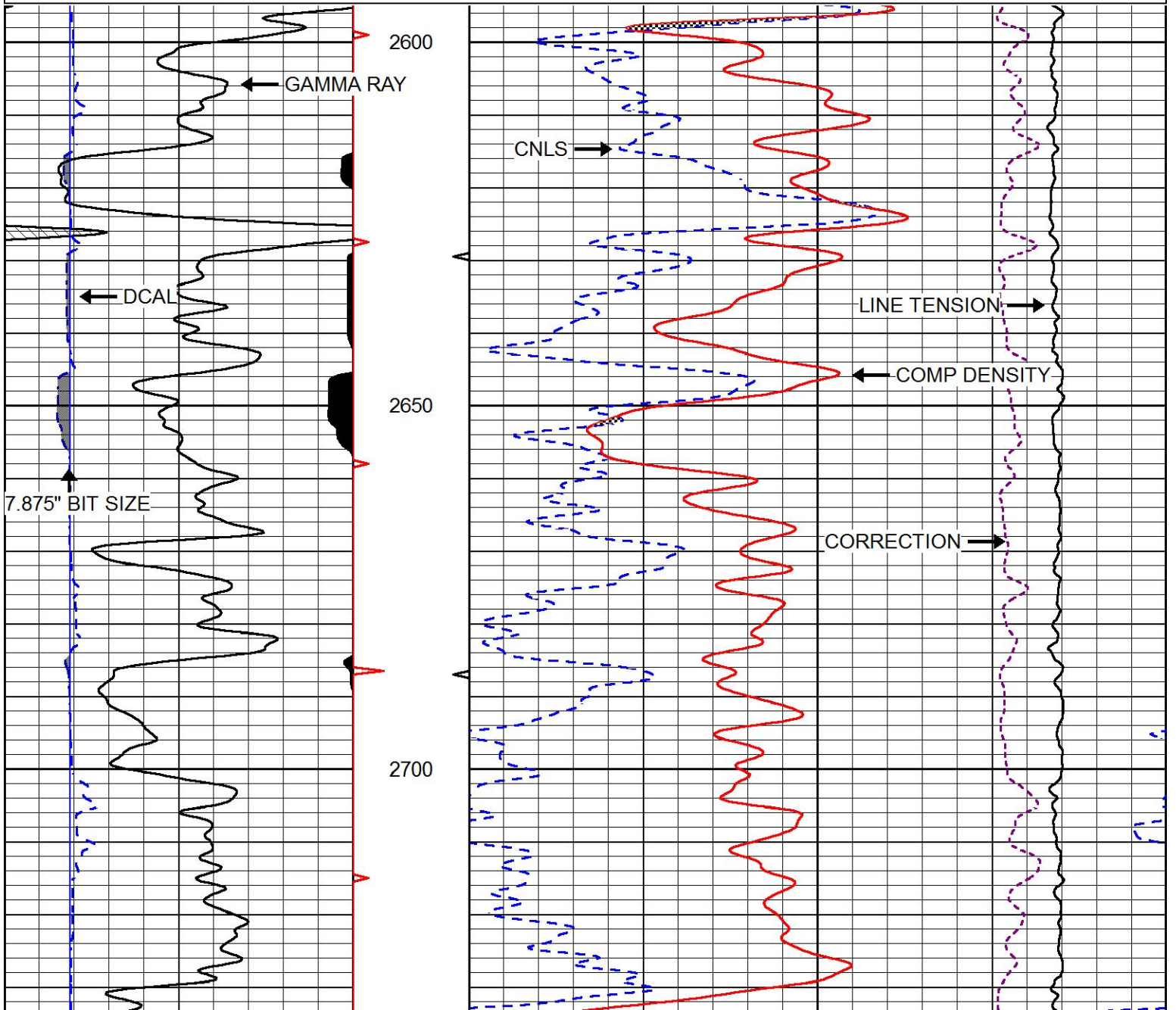


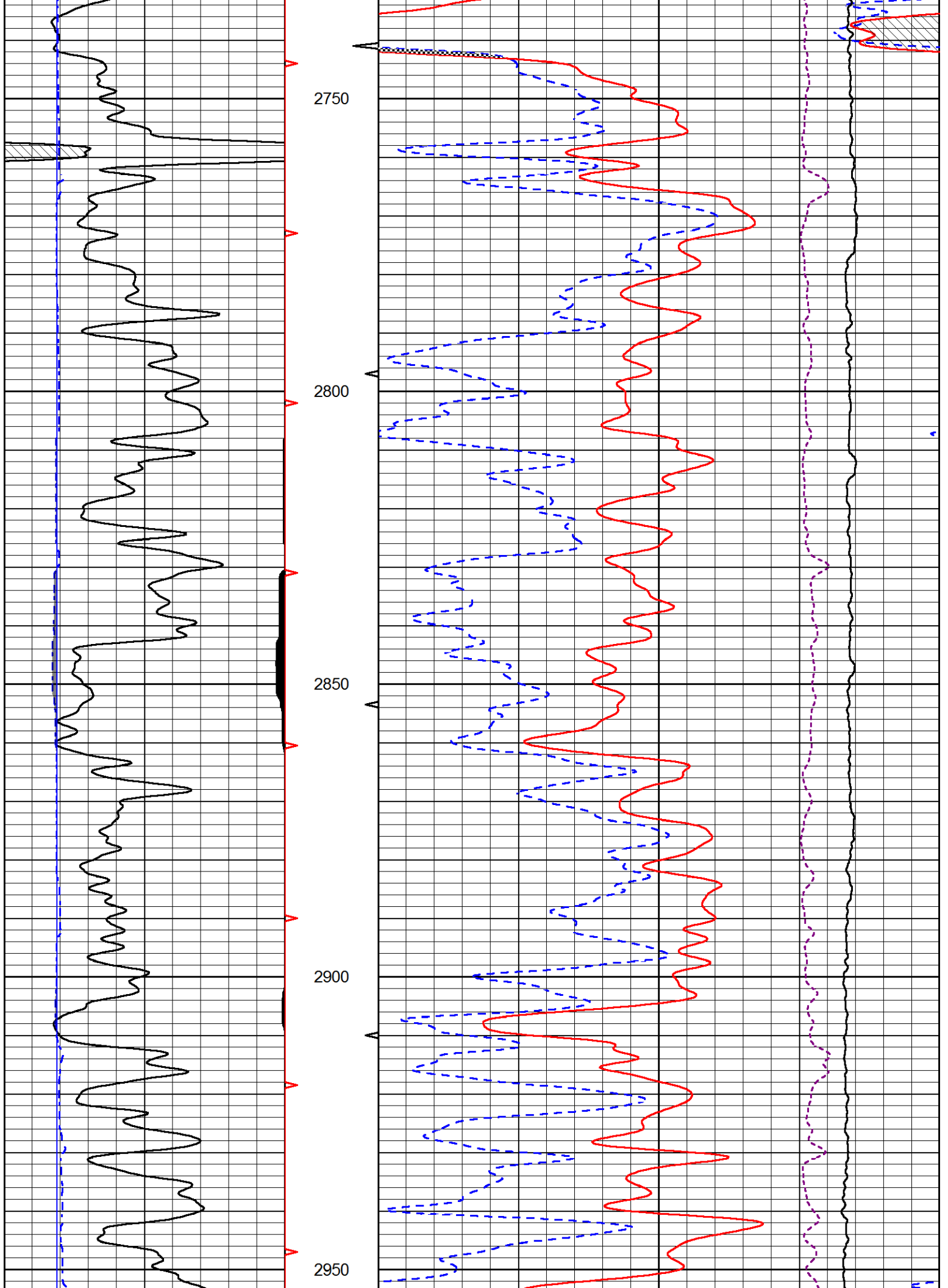
MAIN PASS

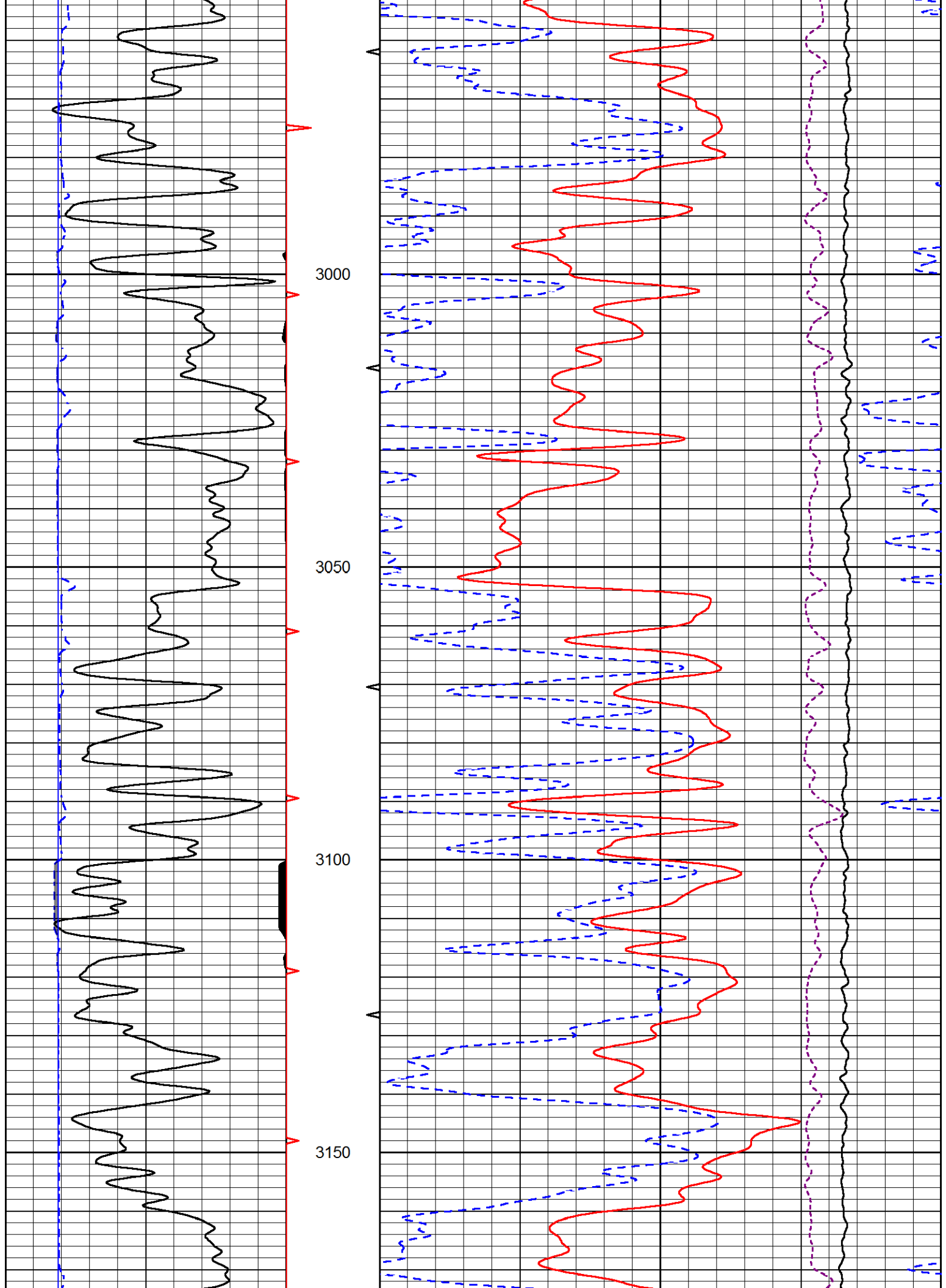
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 Dataset Pathname STACKML/pass3.1
 Presentation Format cndlspec
 Dataset Creation Wed Jan 31 20:04:55 2018
 Charted by Depth in Feet scaled 1:240

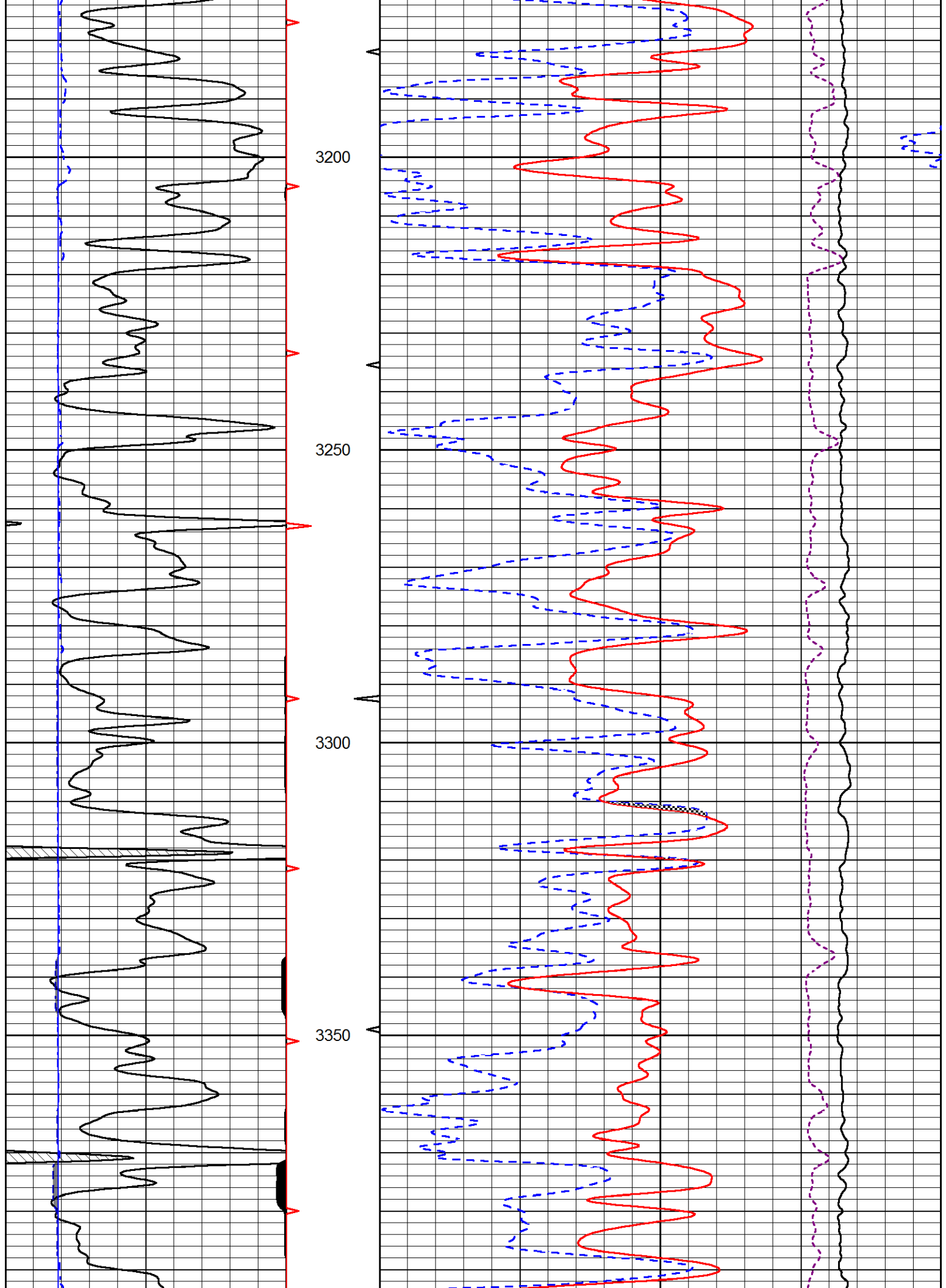
0	Gamma Ray (GAPI)	150
6	DCAL (in)	16

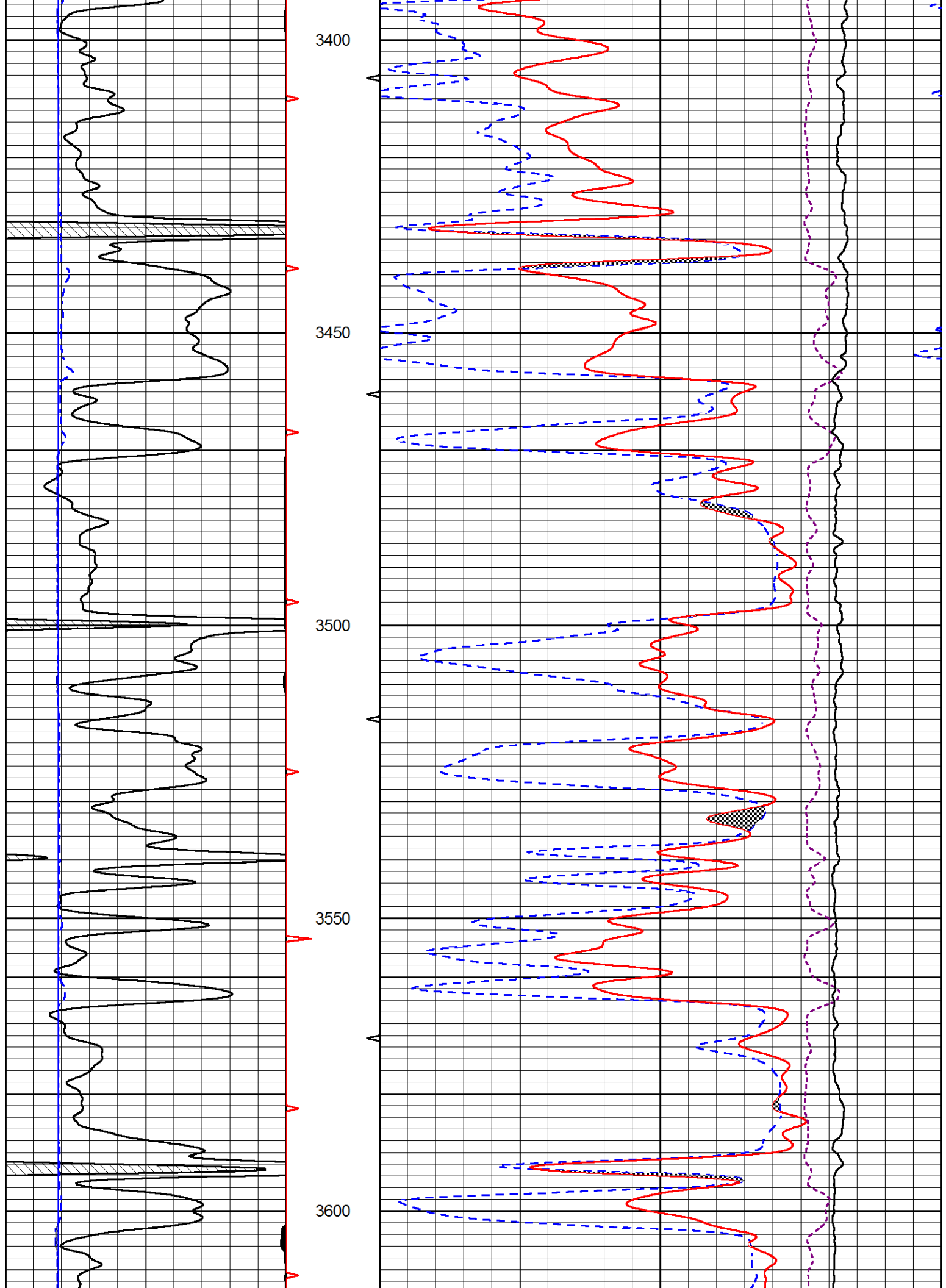
30	CNLS (pu)	-10
30	Compensated Density 2.71 g/cc (pu)	-10
10000	Line Tension (lb)	0
	-0.75 Correction (g/cc)	0.75

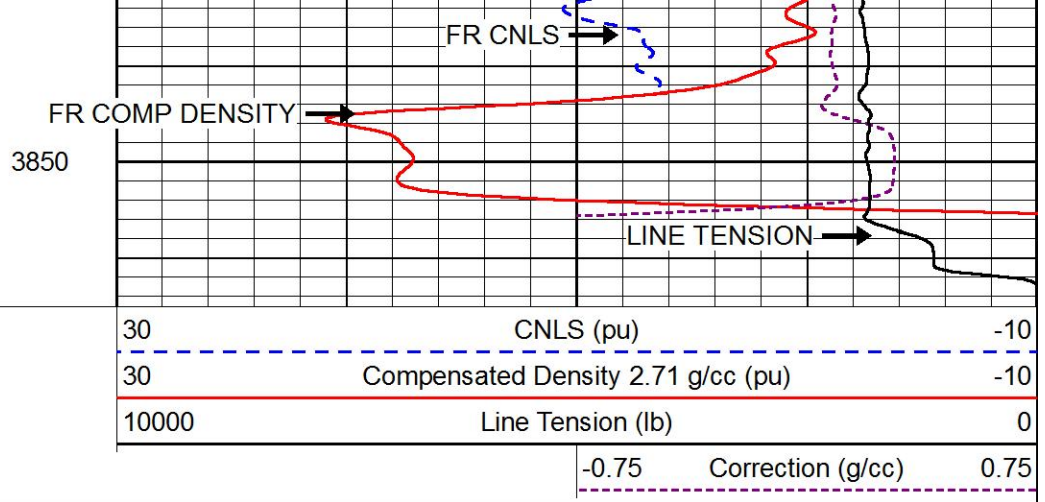
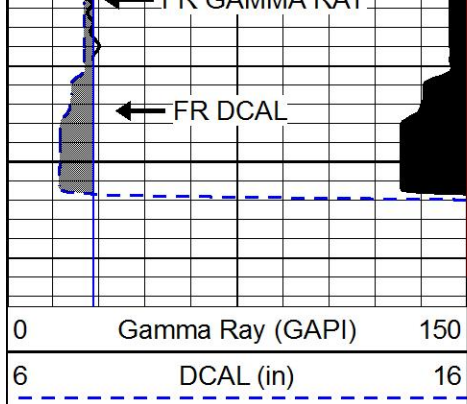












0	Gamma Ray (GAPI)	150
6	DCAL (in)	16

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

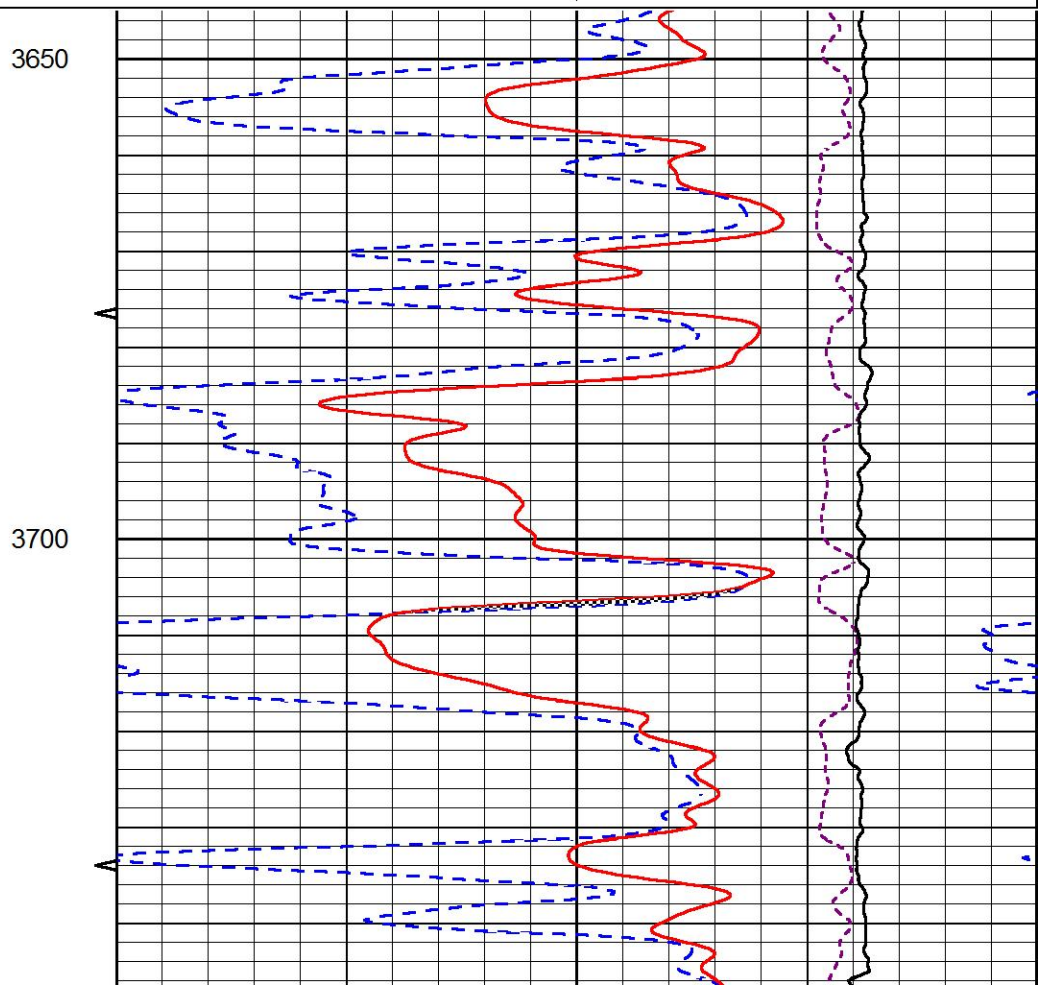
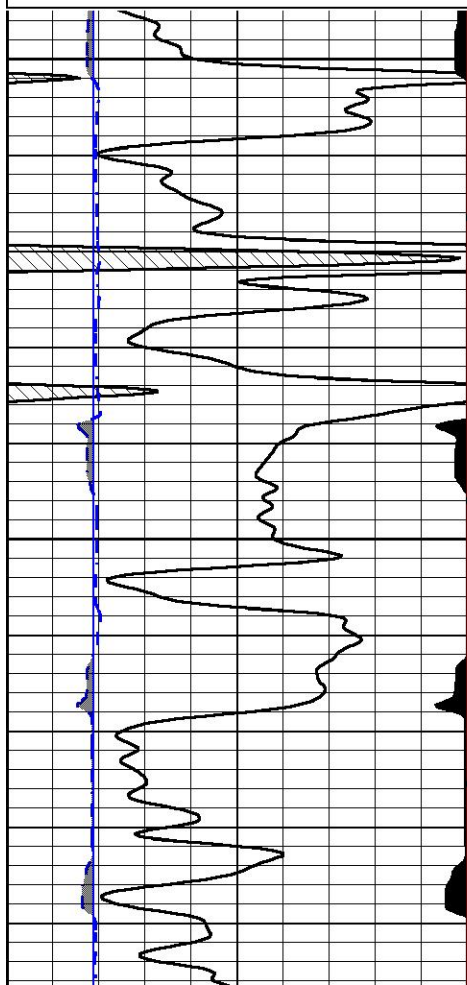


REPEAT SECTION

Database File meridian_seefeld#3.db
 Dataset Pathname STACKML/pass2.1
 Presentation Format cndlspec
 Dataset Creation Wed Jan 31 19:26:11 2018
 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



3650

3700

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	17000.0000	-0.8000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	18000.0000	-0.3000
Caliper	1.0001	1.1397	6.5000	18.5000	in	100.0000	-97.3500

Compensated Density Calibration Report

Serial-Model: 227-771-M&W
Source / Verifier: 16955B / 2ci
Master Calibration Performed: Sat Jan 27 18:11:20 2018

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4919.18	6345.34	cps
Aluminum	2.665	g/cc	911.94	4081.94	cps
Spine Angle = 75.33		Density/Spine Ratio = 0.522			
	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: MON JAN 15 10:30:30 2018

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: Mon Jan 15 11:20:44 2018

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.6000 GAPI/cps



Company MERIDIAN ENERGY, INC.
Well SEEFELD #3
Field MOREL
County GRAHAM
State KANSAS



MICRORESISTIVITY LOG

Company: MERIDIAN ENERGY, INC.
 Well: SEEFELD #3
 Field: MOREL
 County: GRAHAM
 State: KANSAS

Company: MERIDIAN ENERGY, INC.
 Well: SEEFELD #3
 Field: MOREL
 County: GRAHAM
 State: KANSAS

Location: API #: 15-065-24146-00-00
 3630' FSL & 330' FEL
 SEC 18 TWP 9S RGE 21W
 Permanent Datum: GROUND LEVEL Elevation 2264'
 Log Measured From: KELLY BUSHING
 Drilling Measured From: KELLY BUSHING
 Other Services: CNL/CDL DIL
 Elevation: K.B. 2270', D.F. N/A, G.L. 2264'

Date	1/31/2018
Run Number	ONE
Depth Driller	3855'
Depth Logger	3856'
Bottom Logged Interval	3855'
Top Log Interval	2600'
Casing Driller	8.625" @ 210'
Casing Logger	208'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	5000
Density / Viscosity	9.2 55
pH / Fluid Loss	8.9 8.2
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.60 @ 50
Rmt @ Meas. Temp	0.45 @ 50
Rmc @ Meas. Temp	0.81 @ 50
Source of Rmf / Rmc	CHARTS
Rm @ BHT	0.26 @ 115
Operating Rig Time	3 HOURS
Max Rec. Temp. F	115
Equipment Number	91
Location	HAYS
Recorded By	D. SCHMIDT
Witnessed By	MAXWELL LAFON

<<< Fold Here >>>

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Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

BOGUE,
 SOUTH TO K ROAD, 1/2 SOUTH,
 WEST INTO

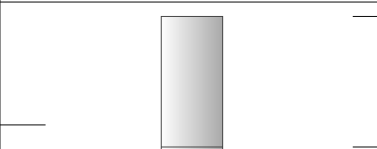
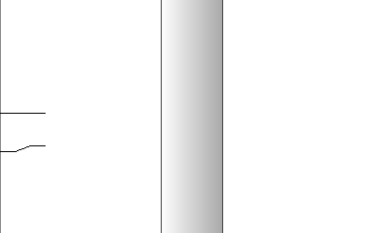
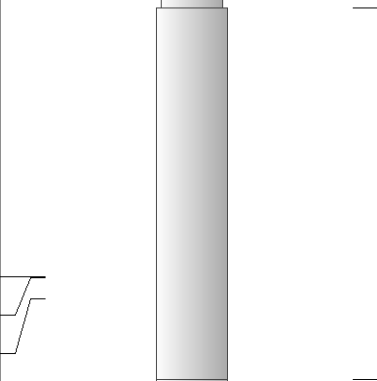
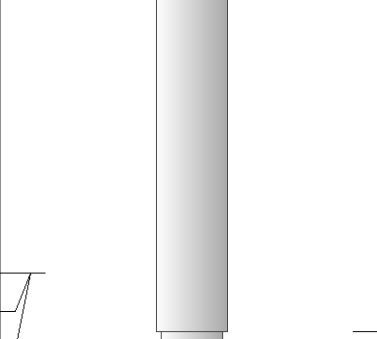
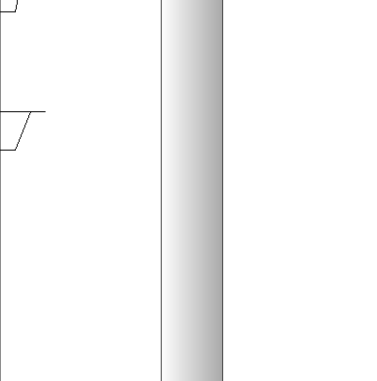
Log Measured From: KELLY BUSHING 6 Ft. Above Permanent Datum

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

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	-237	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	50	0	5.5	0	3856	115	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (227-771)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics	7.58	4.00	65.00
RLL3F RLL3	15.80 15.80					

CILD	8.00		DIL-PSI HIGH TEMP (933 (HT))	18.50	3.50	220.00
CILM	4.70					
SP	0.20					

Dataset: meridian_seefield#3.db: field/well/STACKML/pass3.1
 Total length: 43.08 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in

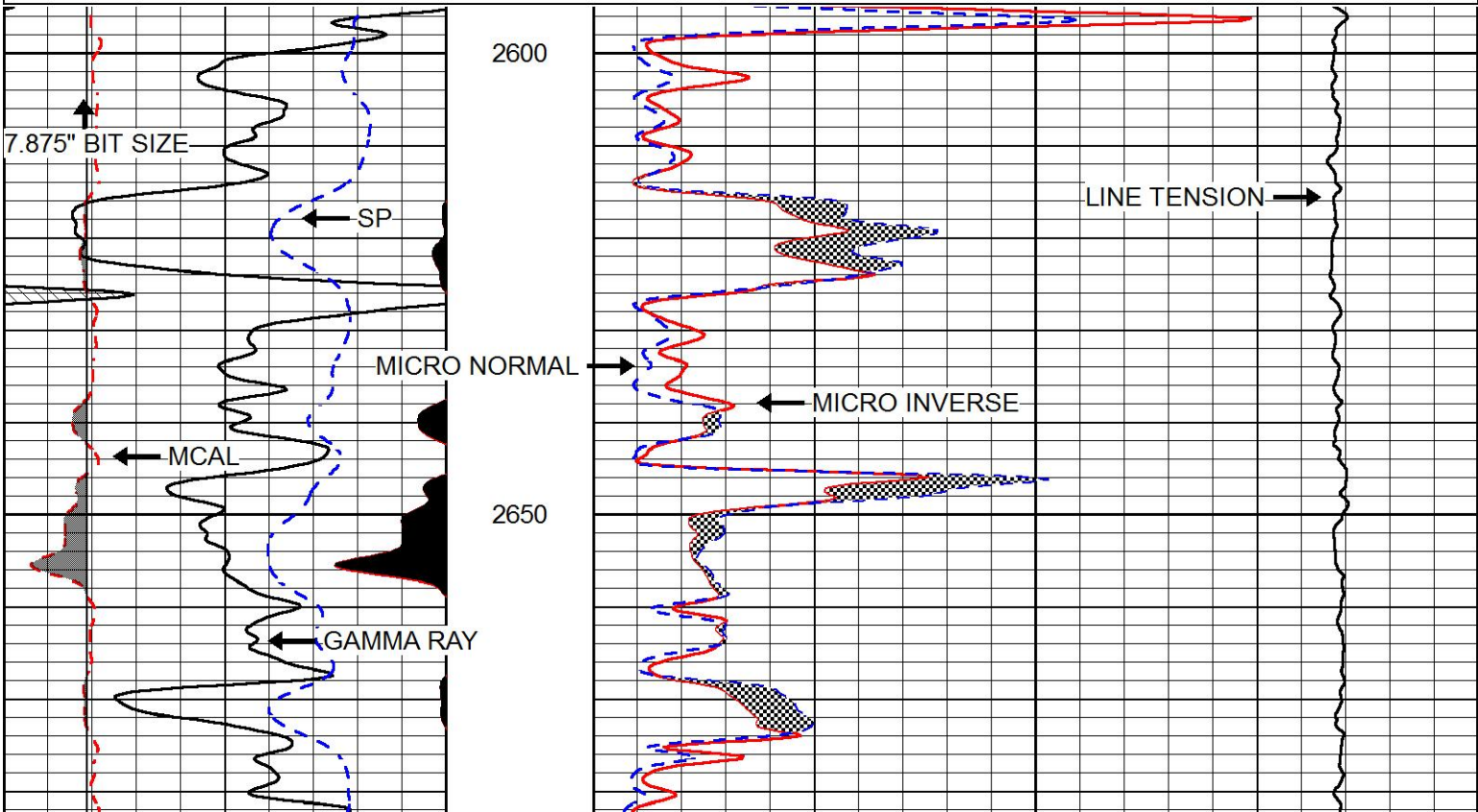


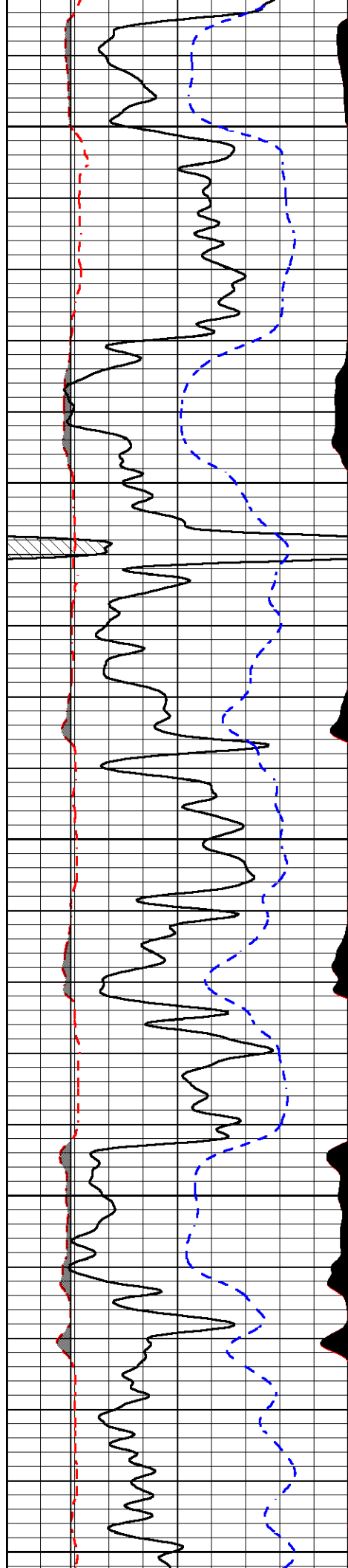
MAIN PASS

Database File	meridian_seefield#3.db
Dataset Pathname	STACKML/pass3.1
Presentation Format	micro
Dataset Creation	Wed Jan 31 20:04:55 2018
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0





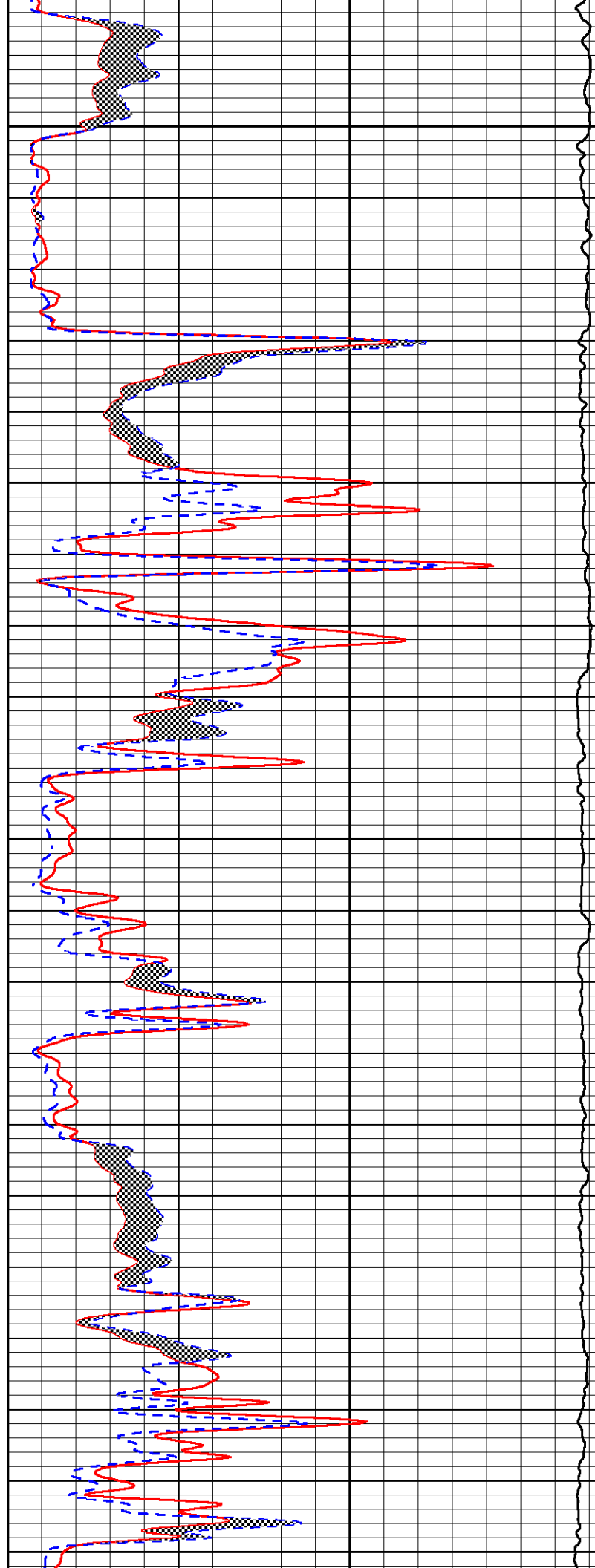
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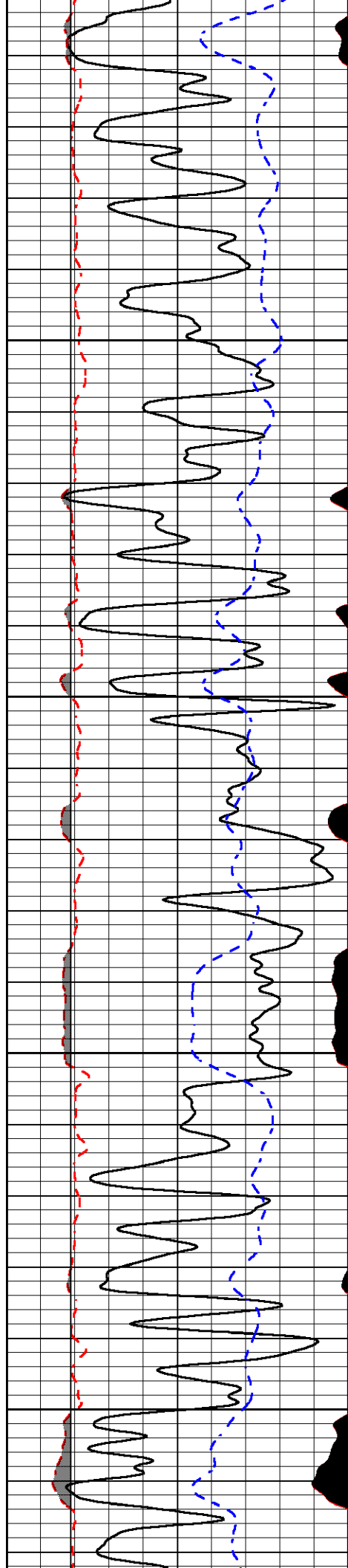
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2800

2850

2900



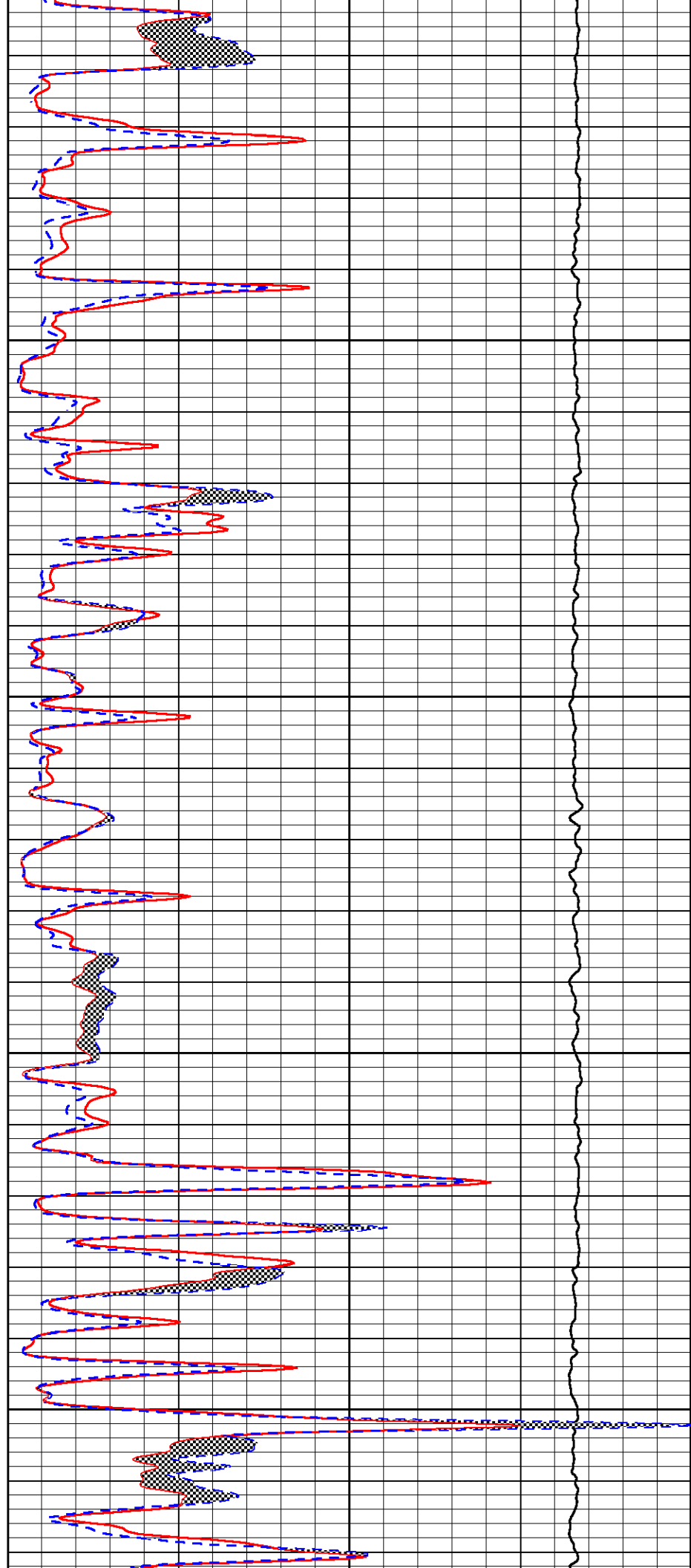


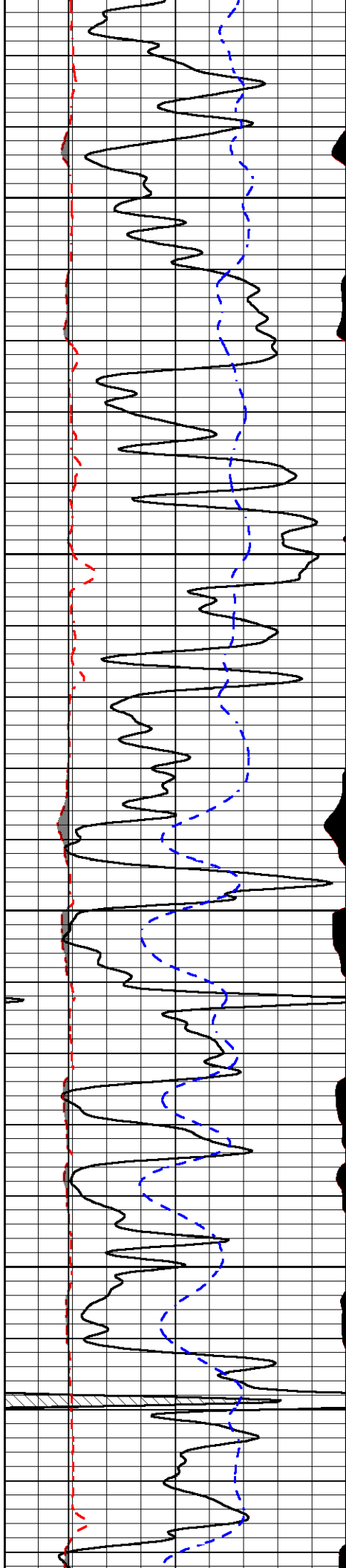
2950

3000

3050

3100



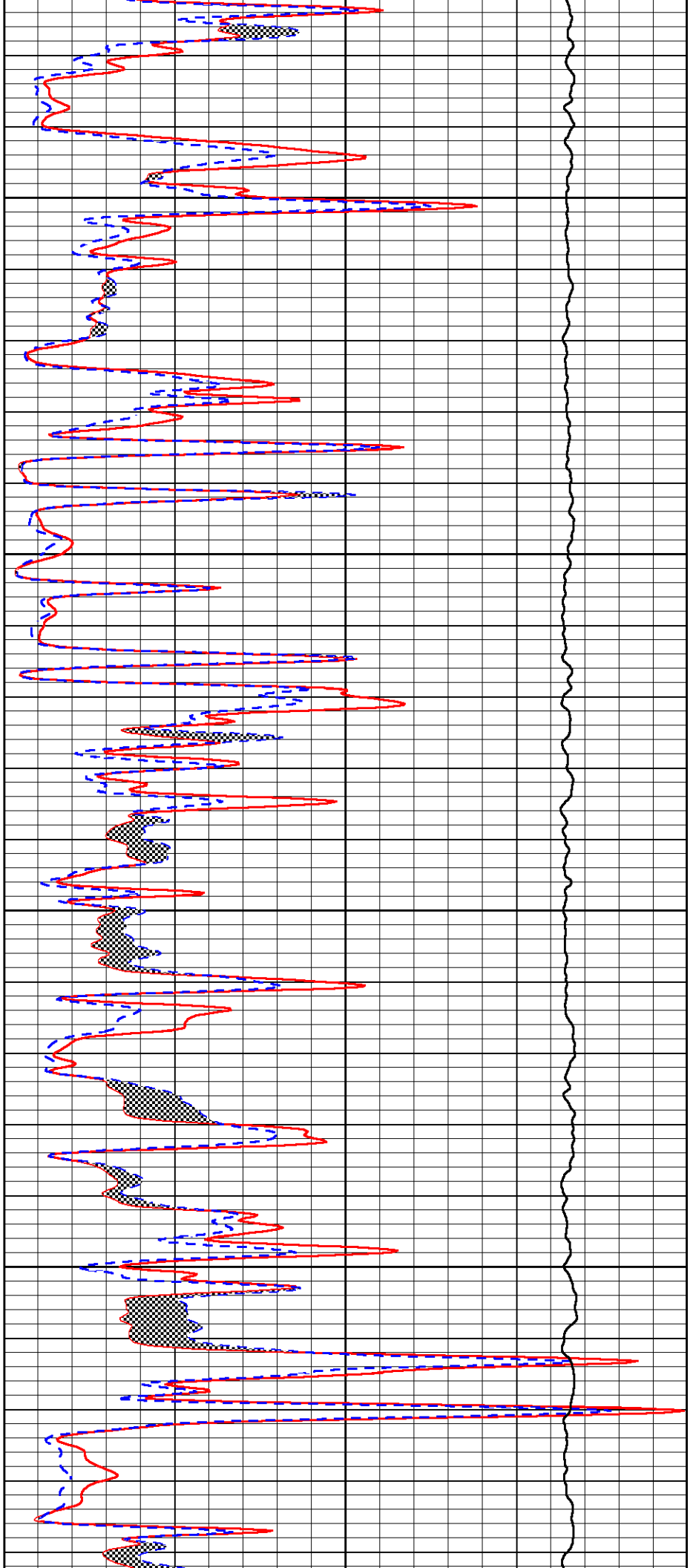


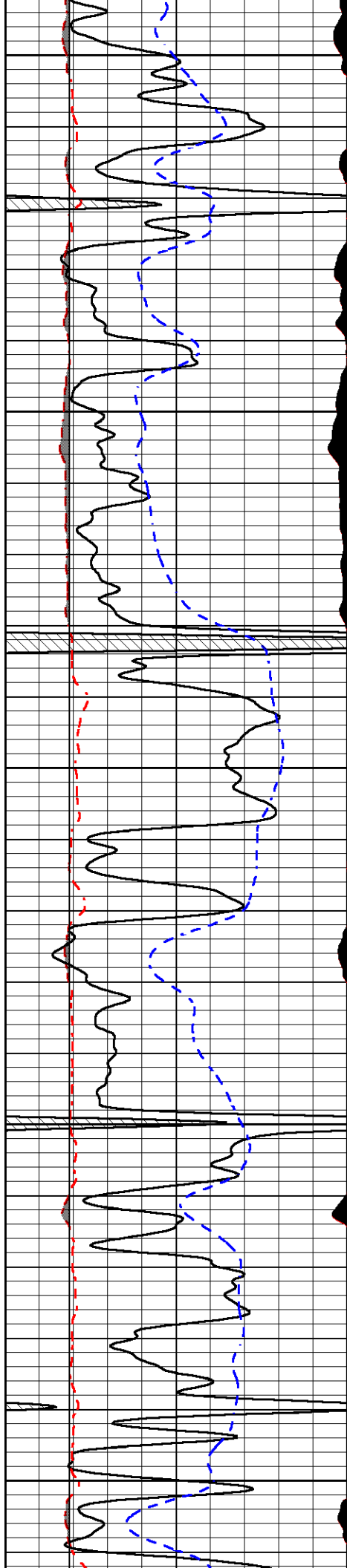
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3200

3250

3300





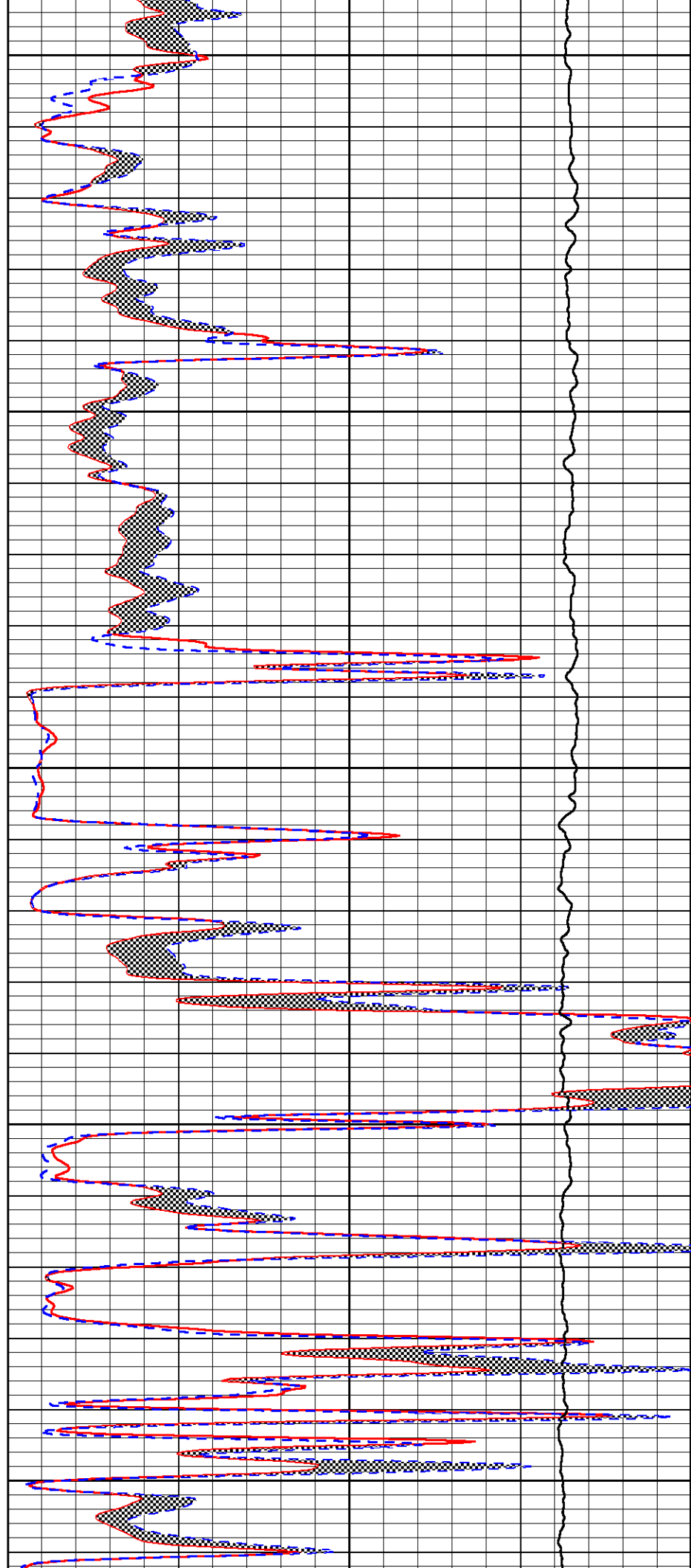
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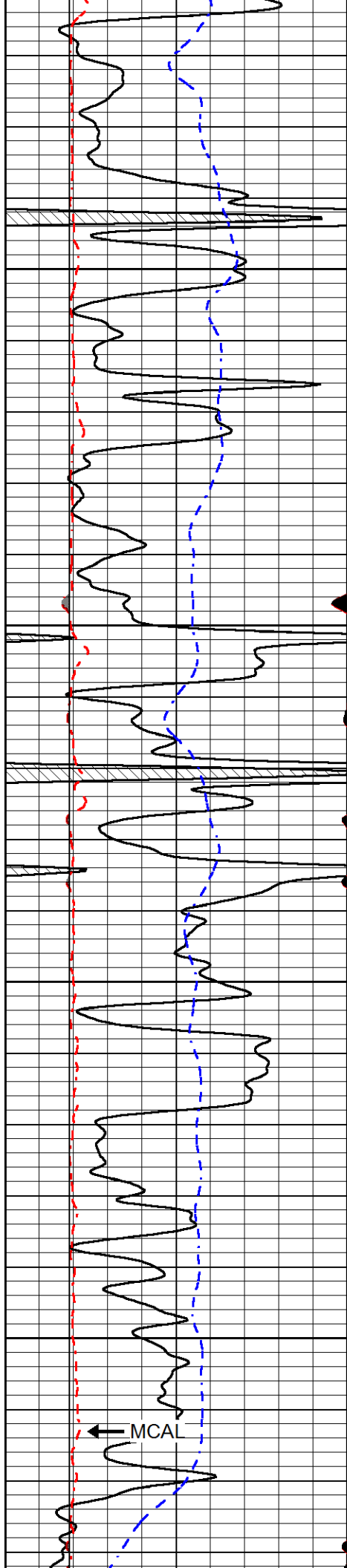
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3450

3500

3550



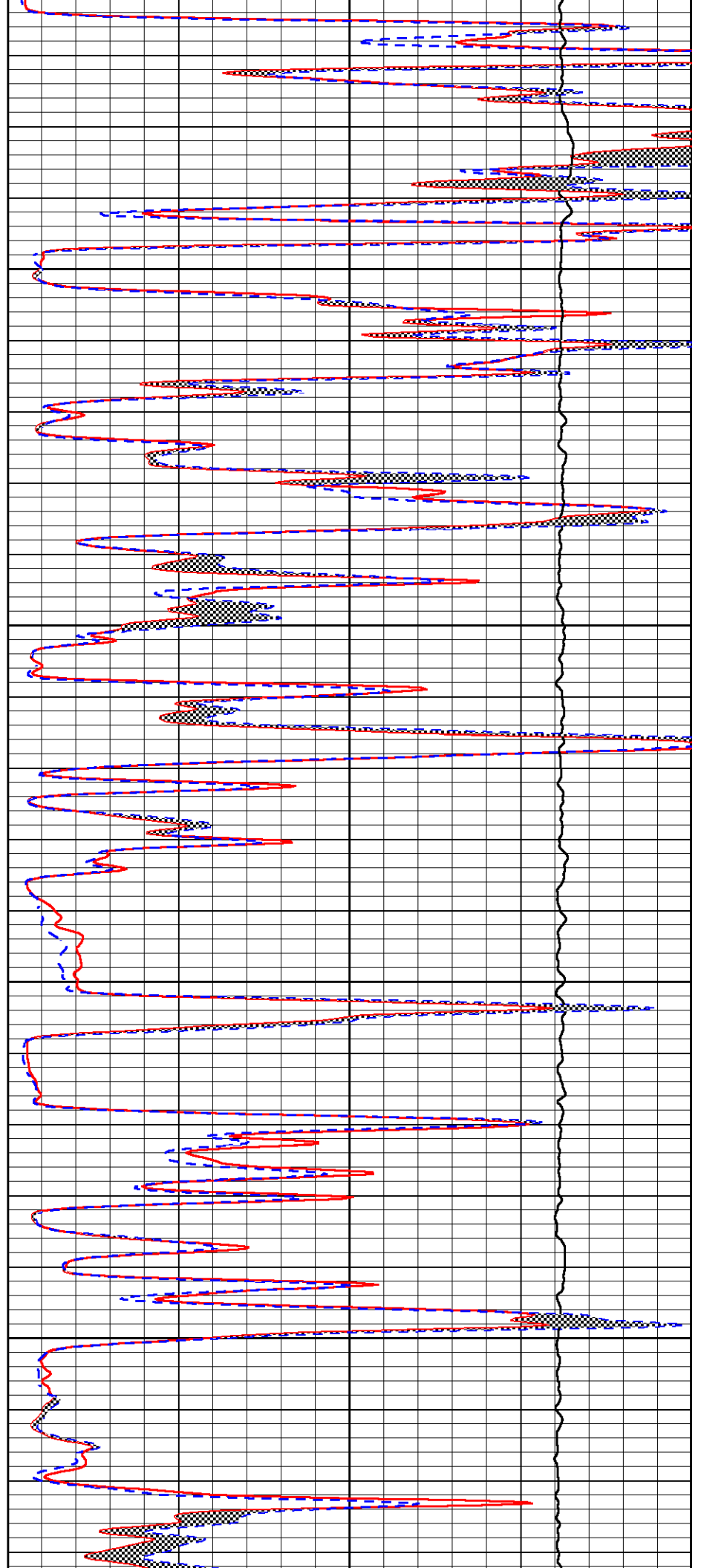


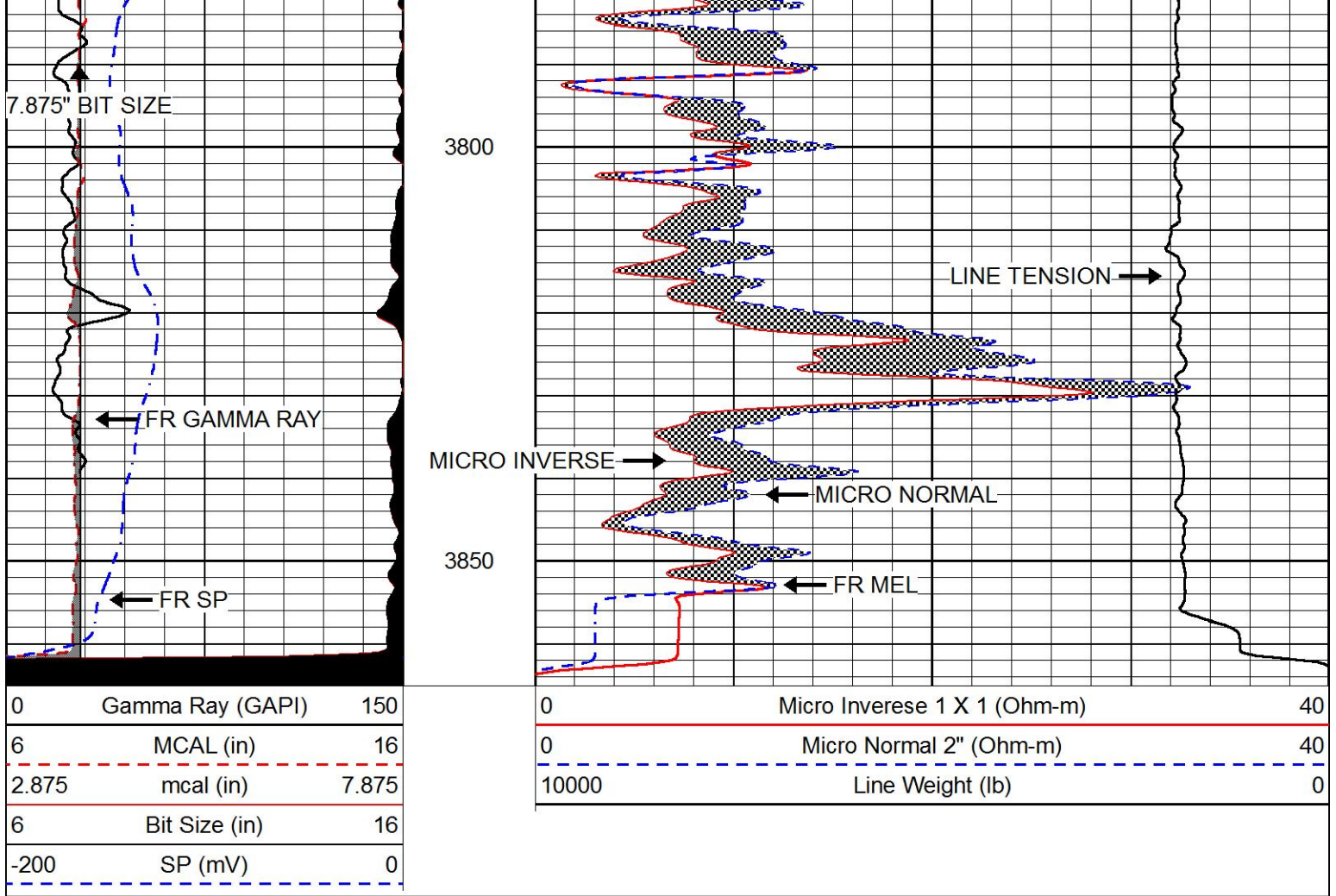
3600

3650

3700

3750



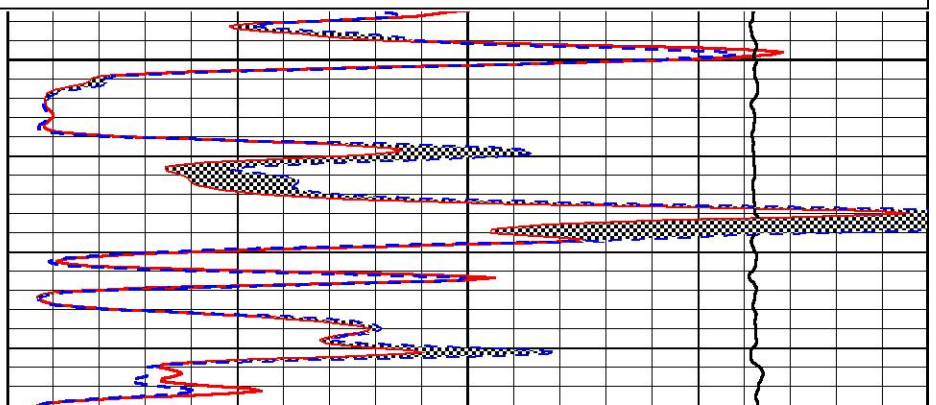
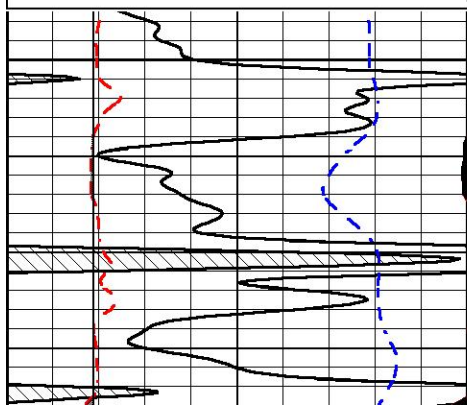


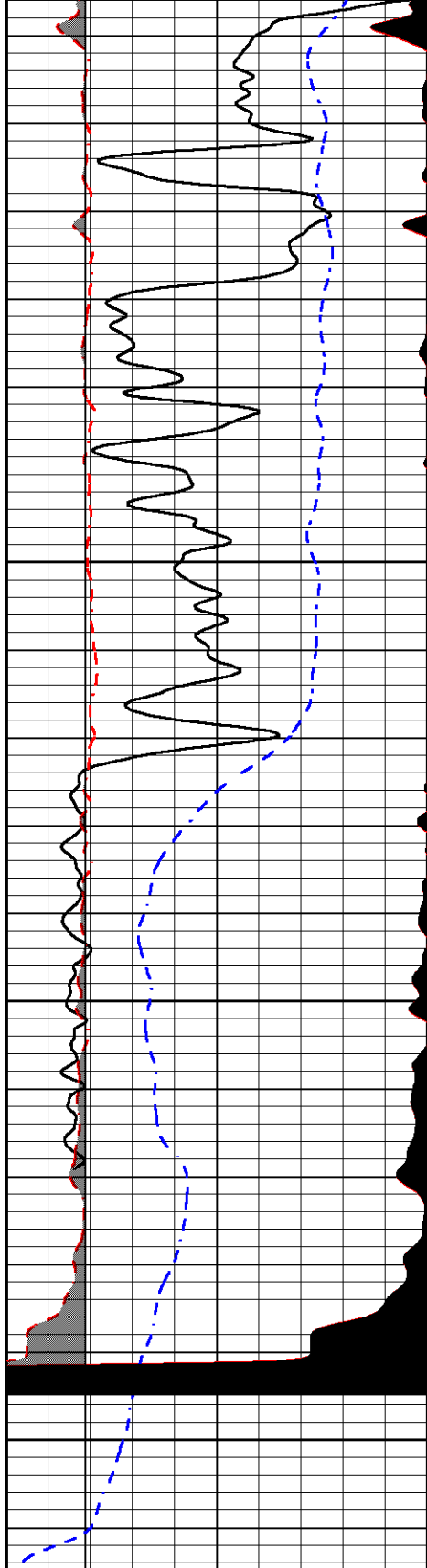
REPEAT SECTION

Database File meridian_seefield#3.db
 Dataset Pathname STACKML/pass2.1
 Presentation Format micro
 Dataset Creation Wed Jan 31 19:26:11 2018
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0





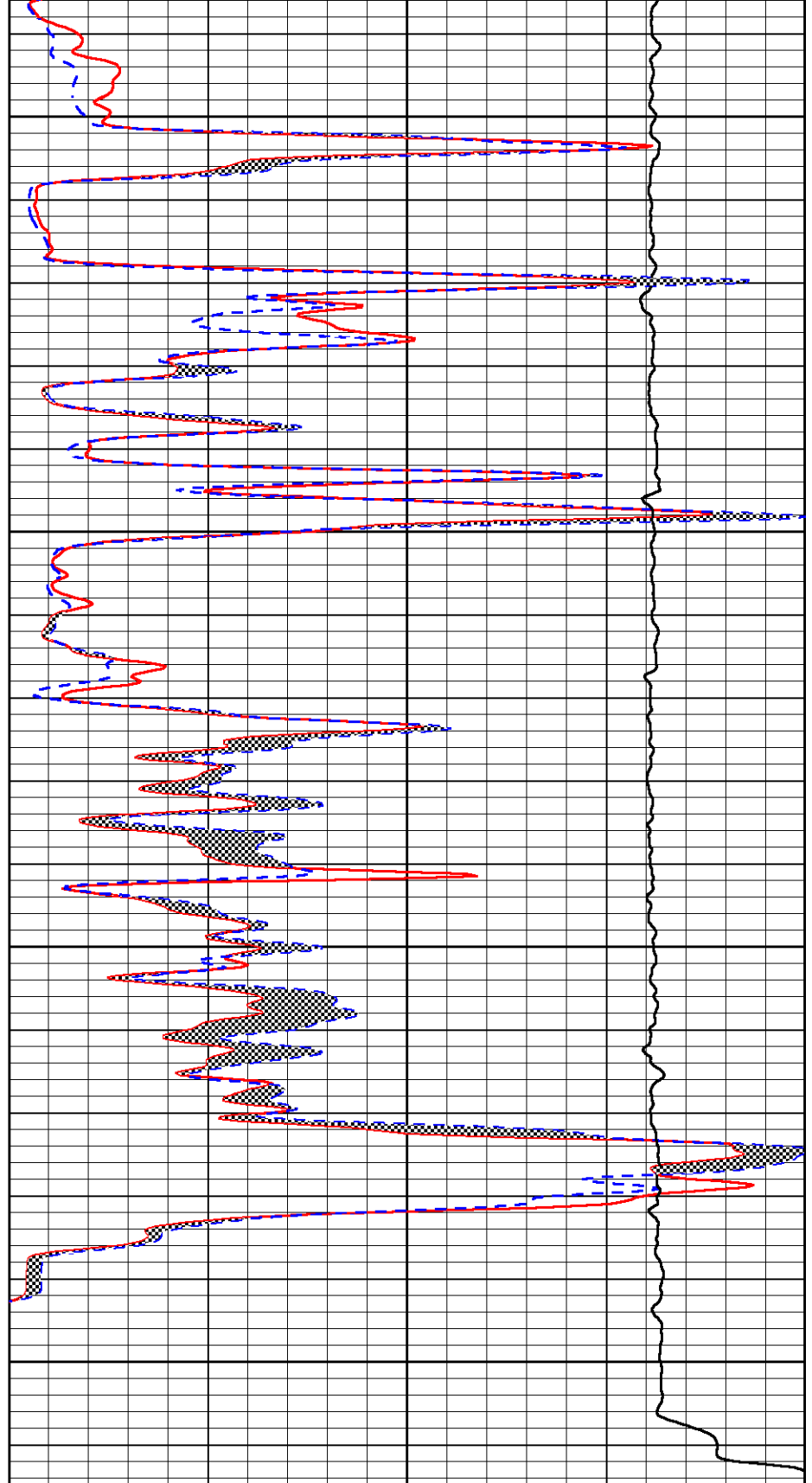
3700

3750

3800

3850

0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0



0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

Calibration Report

Database File meridian_seefeld#3.db
 Dataset Pathname STACKMI/pass3.1

Dual Induction Calibration Report

Serial-Model: 933 (HT)-PSI HIGH TEMP
 Calibration Performed: Sun Jan 28 18:12:06 2018

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.000	mmho/m	0.720	-21.000
Medium	142.000	1349.000	0.000	255.000	mmho/m	0.560	-60.500

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
 Performed: Mon Jan 15 11:19:55 2018

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	17000.0000	-0.8000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	18000.0000	-0.3000
Caliper	1.0001	1.1397	6.5000	18.5000	in	100.0000	-97.3500

Compensated Density Calibration Report

Serial-Model: 227-771-M&W
 Source / Verifier: 16955B / 2ci
 Master Calibration Performed: Sat Jan 27 18:11:20 2018

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4919.18	6345.34	cps
Aluminum	2.665	g/cc	911.94	4081.94	cps
Spine Angle = 75.33			Density/Spine Ratio = 0.522		
	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: MON JAN 15 10:30:30 2018

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:	Mon Jan 15 11:20:44 2018	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps



PIONEER

Pioneer Energy Services

Company	MERIDIAN ENERGY, INC.
Well	SEEFELD #3
Field	MOREL
County	GRAHAM
State	KANSAS

GLOBAL OIL FIELD SERVICES, LLC

3265

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell, KS

DATE <u>1-25-18</u>	SEC. <u>18</u>	TWP. <u>9</u>	RANGE <u>21</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>2:45</u>
LEASE <u>see field</u>	WELL #. <u>3</u>	LOCATION			COUNTY <u>Graham</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (CIRCLE ONE)							

CONTRACTOR Royal

TYPE OF JOB surface

HOLE SIZE 2 1/4 T.D. 210

CASING SIZE 2 5/8 DEPTH 210

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX. 300ps MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 20 lb

PERFS

DISPLACEMENT 12 bbl

EQUIPMENT

PUMP TRUCK CEMENTER Heath

417 HELPER Jason

BULK TRUCK

412 DRIVER Duke

BULK TRUCK

DRIVER

OWNER

CEMENT

AMOUNT ORDERED 180sx 60/40 3%CC

2%gel

Hit sand and ordered extra 30sx

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

REMARKS:

Ran 5 Hrs of 8 5/8 casing and landing
It - est circulation - mix 180sx and
Disp 12 bbl H2O - Shut in @ 300ps.

Cement did circulate

CHARGE TO: Meridian Energy

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

Global Oil Field Services, LLC

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side. Thank you!!

PRINTED NAME

SIGNATURE [Signature]

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS