



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1222716  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- 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 ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1222716

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  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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Future Acquisition Company LLC
Well Name	Herradura 1
Doc ID	1222716

Tops

Name	Top	Datum
NEVA	380'	660'
SHAWNEE	1147'	181'
IATAN	1864	-536'
PERRY	2114	-786'
LAYTON	2294	-966
KANSAS CITY	2511	-1183
CLEVELAND	2619	-1291
MARMATON	2712	-1384
FT SCOTT	2812	-1484
MISSISSIPPIAN	3130	-1802
KINDERHOOK	3488	-2160
ARBUCKLE	3549	-2221



## GEOLOGIST REPORT

**Well Name: Herradura #1 API: 15035245790000**

**Location: NE, NW, NE, SW of Section 17, T33S, R6E, Crowley County, KS**

**SHL: 2,325' FSL & 1,913' FWL of NE, NW, NE, SW, Section 17, T33S, R6E**

**Region: Cowley County**

**Spud Date: 6/17/2014          Drilling Completed:6/23/2014**

**Ground Elevation (ft):1,318'**

**K.B. Elevation (ft): 1,328'          Total Depth (ft):3,594'**

**Formation: Mississippian Type of Drilling**

**Fluid:WATER, GEL**

NEVA @ 380' (660')

380-420' LS: PREDLT TN- TN, SME OFF WHT, PRED MODFRM- HRD, PRED PLTY, SME BLKY, TRHL  
FRACPOD

420-465' SH: PREDLT GRY-MED GRY THRUOUT, OCC RED, TRDKGRY, MSTLY SFT-VRY SFT, OCC SLI-  
MODFRM, SUB BLKY-CHNKY, OCCPLTY, OCCMICRO MICA, PRED MODSMTHTXT, OCCSLI RGH-RGHTXT

465-480' SS: MSTLY TN, SME OPQ, TRCLR, BRIT-SLI BRIT, ANG-SUBANG GRNS, TRSUBRND GRNS, V FN, PR  
INTRGRNPOR, NON CONSOL GRNS, LS: PREDTNTHRUOUT, OCCOFF WHT-WHT, MSTLY BRIT-VRY BRIT,  
OCCSLI FRM, PRED SUBBLKY-CHNKY, SME PLTY

480-570' SH: PREDLT GRY-MED GRY THRUOUT, OCC RED, TRDKGRY, MSTLY SFT-VRY SFT, OCC SLI-  
MODFRM, SUB BLKY-CHNKY, OCCPLTY, OCCMICRO MICA, PRED MODSMTHTXT, OCCSLI RGH-RGHTXT

570-668' SH: PREDGRY, SME LT GRY, OCCRED- RED ORNG, TRDRKGRY- BLK, MSTLY SFT, TRSLI FRM,  
MSTLY SUBBLKY, SME BLKY, OCCMICRO MICA, PREDMEDFNTXT

668-778' SH: MSTLY LT- MEDGRY, OCCDRKGRY, TRRED- REDORNG, MSTLY SFT, SME SLI FRM, SME SLTY,  
MSTLY SUBBLKY, SME CHNKY, OCCSNDY TXT, INCRSNG PYR

778-820' SS: MSTLY OPQ- TRSL, SME LT GRY, OCCLT TN, FRM- MOD FRM, MSTLY FNGRNS, WEL SRTD,  
SUBRND- SUBANG, NONCALCCMT, OCC UNCONSOL QRTZ GRNS, SLI FRINTERGRANPOR, TRPYR

820-870' SH: PREDGRY, SME LT GRY, OCCRED- RED ORNG, TRDRKGRY-BLK, MSTLY SFT, TRSLI FRM,  
MSTLY SUBBLKY, SME BLKY, OCCMICRO MICA, PREDMEDFNTXT

870-880' SS: PREDOFF WHT- WHT, SME OPQ- CLR, FRM- MODFRM, PRED FNGRNS, PRSRTD, SUB RND-  
SUBANG, NON CALCCMT, PRINTGR POR, PREDCONSOL

880-1062' SH: MSTLY LT GRY, SME GRY, TRRED- MAUVE, MSTLY SFT, SME SLI FRM, PREDSUBBLKY,  
OCCBLKY, OCCMICRO MICA, SME SLTY, PRED RGHTXT, TR FREE PYR

1062-1075' LS: MSTLY CRM, SME LT GRY- LT TN, OCCWHT, MODFRM- VRY FRM, PREDSUBBLKY, FN- VRY  
FNXLN, OCCSNDY TXT, INTERXLNPOR, TR HL FRACPOR, SH: PRED KD LT- MEDGRY, OCCRED- PALE RED,  
SLI SFT- SLI FRM, MSTLY SUBBLKY- CHNKY, OCCBLKY, OCC MICRO MICA, FN- MOD RGHTXT, OCCSNDY  
TXT, TRFREE PYR

1075-1148' SH: MSTLY LT GRY, SME GRY, TRRED- MAUVE, MSTLY SFT, SME SLI FRM, PREDSUBBLKY, OCCBLKY, OCCMICRO MICA, SME SLTY, PRED RGHTXT, TRFREE PYR

SHAWNEE @ 1147' (181')

1147-1340' LS: MSTLY TN, SME LT TN, OCCCRM, TRWHT, VRY FRM, OCCHRD, MSTLY SUBBLKY, OCC BLKY, VRYFNXLN, OCC SNDY TXT, SME HL FRACPOR, TRFRAC POR, SH: MSTLY LT GRY THRUOUT, TRGRY, TR RED- REDORNG, SLI FRM- FRM, OCCMOD FRM, MSTLY SUBBLKY, OCCBLKY, MODRGH TXT, OCCSMHTXT

1340-1478' SH: MSTLY LT GRY, SME GRY, TRRED- MAUVE, MSTLY SFT, SME SLI FRM, PREDSUBBLKY, OCCBLKY, OCCMICRO MICA, SME SLTY, PRED RGHTXT, TRFREE PYR

1478-1504' SS: PREDLT GY- GY, SME OFF WHT, ANG- SUBANG, MODSRT, PR INTRGRNPOR, CONSOL

1504-1618' SH: MSTLY MEDGRY THRUOUT, OCCLT GRY, TRRED- MAUVE, PRED SFT, SME SLI FRM, PREDSUBBLKY THRU OUT, OCCBLKY, SLI TR MICRO MICA, OCCSLTY, MSTLY RGHTXT, OCC SLI SMTH, TR-OCCLS

TORONTO @ 1618' (-290)

1618 -1662' LS: PREDOFF WHT-CRM, SME TN-DK TN, TRLT GRY, MOD FRM- FRM, OCCVRY FRM, TRBRIT, MSTLY SUBBLKY-BLKY, SME PLTY, V FNXLN, SME HL FRACPOR

1662-1790' SH: PREDLT GRY THRU OUT, OCCRED, TRMED- DKGRY, MSTLYSLI-MOD FRM, OCCSFT, PRED SUBBLKY, OCCCHNKY, TRSPLNTRY, OCC MICRO MICA, TRSLTY, MSTLY RGHTXT, OCC SLI-MODSMHTXT, TR-OCCLS

IATAN @ 1864 (-536)

1864-1892' LS: PREDOFF WHT- CRM, TRLT TN, MOD FRM, TRHL FRACPOR

1892-2048' SS: MSTLY OFF WHT THRUOUT, OCC CRM-OPQ, TRLT TN-TN, PREDSUBRND- SUBANG, OCCANG, MOD SRT, SLI FR-FRINTRGRN POR, CONSOL GRNS, PREDFN GRNS, NON CALCCMT

2048-2112' SH: PREDGRY- DRK GRY, OCCLT GRY, SFT- MODFRM, PREDPLTY, SME BLKY, V SMHTXT

PERRY @ 2114 (-786)

2114-2154' SS: PREDOFF WHT- WHT, SME OPQ- TRANSLU, PREDSUB ANG, PRSRT, PRINTGR POR, PREDCONSOL, TR UNCONS, PREDFN GRNS, NONCALCCMT

2154-2294' SH: PREDGRY- DRK GRY, OCCLT GRY, SFT- MODFRM, PREDPLTY, SME BLKY, V SMHTXT, TROFF WHT SS STRNGS THUR OUT

LAYTON @ 2294 (-966)

2294-2374' SS: PREDLT GRY- GRY, SCAT TRANSLU- OPQ, PREDSUBANG- SUB RND, MODSRT, PRED CONSOL, FN-MEDGRNS, SLI CALCCMT, W/ SH: PREDLT GRY- GRY, SFT- MODFRM, PREDPLTY, SME BLKY, V SMHTXT

2374-2418' SH: GRY- DRKGRY, OCC LT GRY, SFT- MODFRM, PREDPLTY, SME BLKY, V SMHTXT, TROFF WHT SS STRNGS THUR OUT

2418-2456' SS: MSTLY LT GRY, SME KD WHT, OCCLT TN, PRED SUBANG- SUBRND, MOD- WEL SRTD, CONSOL FNGRNS, NON CALC, PRINTERGRAN POR

2456- 2511' SH: PREDGRY- LT GRY, OCCDRKGRY, MSTLY SFT, SME SLI FRM, MSTLY SUBBLKY, OCC BLKY, FNTXT, OCCSS STRNGR

KANSAS CITY @ 2511 (-1183)

2511-2582' LS: PREDTN- DRKTN, OCCLT TN, TRWHT, VRY FRM, SME HRD, VRY FNXLN, PREDSUB BLKY- BLKY, SME SNDY TXT, TRHL FRACPOR

2582-2619' SH: MSTLY DRKGRY, OCCGRY, TRBLK, SLI TRRED, MSTLY FRM, SME SLI FRM, PRED SUBBLKY, TRBLKY, FN-VRY FNTXT

CLEVELAND @ 2619 (-1291)

2619-2660' SS: MSTLY LT GRY-GRY, OCCOPQ-WHT, PRED SUBSUBRND-RND, OCC SUBANG, MODSRT, CONSOL FNGRNS, NON CALC, PRINTERGRAN POR, SME SNDY LME, TN-GRY, OCCHLFRAC POR

2660-2712' SH: PREDMEDGRY THRUOUT, SME LT GRY, MSTLY SLI FRM, SME MODFRM-FRM, MSTLY SUBBLKY, SME BLKY, TRCHNKY, FN-VRYFN TXT, OCCSLI RGHTXT, SLI TROF MICRO MICA

MARMATON @ 2712 (-1384)

2712-2760' LS: PREDOFF WHT-CRM, SME TN-DK TN, TRGRY-DKGRY, MSTLY VRYFRM, SME HRD, TRFRM, PREDSUB KD BLKY-BLKY, SME PLTY,VRY FNXLN, TRSNDY TXT, OCCHL FRACPOR

2760-2778' SH: PREDMEDGRY THRUOUT, SME LT GRY, MSTLY SLI FRM, SME MODFRM-FRM, MSTLY SUBBLKY, SME BLKY, TRCHNKY, FN-VRYFN TXT, OCCSLI RGHTXT, SLI TROF MICRO MICA

FT SCOTT @ 2812 (-1484)

2812-2860' LS: PREDTN- DRKTN, SME OFF WHT, MOD FRM- FRM, OCCHRD, PREDPLTY, SME BLKY, V FNXLN, TRHL FRAC POR, FRPP VUG POR

2860-2932' LS: PREDTN- DRKTN, SME OFF WHT, MOD FRM- FRM, OCCHRD, PREDPLTY, SME BLKY, V FNXLN, TRHL FRAC POR, FRPP VUG POR, BRI GRNFLORSCAT THRUOUT

CATTLEMAN @ 2932 (-1604)

2932-2988' SS: MSTLY LT GRY, SME GRY, OCCOPQ-WHT, TR TN, SUBANG-ANG GRNS, MODWEL SRT, V CONSOL FNGRNS, NON CALC, PRINTERGRAN POR

2988-3020' SH: PREDLT GRY, SME RED-PALE ORNG, OCC MUAVE, TRDKGRY, PREDSLI-MODFRM, OCCFRM, TRSFT, MSTLY SUBBLKY, SME BLKY-BLKY, SME PLTY, FN-VRY FNTXT, OCCSLI RGHTXT, SME MICRO MICA

BARTELSVILLE @ 3020 (-1692)

3020-3060' SS: PREDWHT, SME LT GRY, TROPQ-LT TN, MSTLY SUBRND-SUB ANG, OCCRND, MOD SRT, CONSOL VRY FN GRNS, NONCALC, PR INTERGRANPOR

3060-3130' SH: PREDLT GRY, SME RED-PALE ORNG, OCC MUAVE, TRDKGRY, PREDSLI-MODFRM, OCCFRM, TRSFT, MSTLY SUBBLKY, SME BLKY-BLKY, SME PLTY, FN-VRY FNTXT, OCCSLI RGHTXT, SME MICRO MICA

MISSISSIPPIAN @ 3130 (-1802)

3130-3150' CHT: PREDWHT-OFF WHT, SME LT TN- TN, CHLKY MSTLY VRY HRD, OCCVRY FRM-HRD,

3150-3222' LS: MSTLY TN- DRKTN, OCCTN, FRM- MODFRM, MSTLY SUBBLKY, OCC PLTY, FN- VRY FNXLN, OCCHL FRACPOR, TR FRACPOR

3222-3252' LS: MSTLY TN, SME GRY- LT GRY, OCCLT TN- CRM, FRM- VRY FRM, PREDSDY TXT, SUB BLKY, VRYFNXLN, TR FRACPOR

3252-3312' LS: PREDTN, SME DRK TN, OCCLT TN- LT GRY, MSTLY VRYFRM, SME FRM, OCCDECRSNG SDY TXT, VRY FNXLN, MSTLY SUBBLKY, INCRNSING BLKY, TR FRACPOR

3312-3376' LS: PREDDRKGRY, OCCGRY, TRDRKTN, VRY FRM- HRD, DNSE, PREDBLKY- SUBBLKY, VRY FNXLN, TRFRAC POR, VRY PRPOR

3376-3420' LS: PREDDRKGRY, OCCGRY, TRDRKTN, VRY FRM- HRD, DNSE, PREDBLKY- SUBBLKY, VRY FNXLN, TRFRAC POR, VRY PRPOR

3420-3488' LS: MSTLY DRKGRY- VRY DRKGRY, OCC GRY, TRLT GRY- CRM, VRY FRM- HRD, MSTLY SUBBLKY, OCCBLKY, TRPLTY, VRY FNXLN, DNSE, TRVRY PRFRAC POR

KINDERHOOK @ 3488 (-2160)

3488-3549' SH: BLCKCARBSH, SME DRKGRY, PRED SFT THRUOUT, MSTLY PLTY, SME SUBBLKY

ARBUCKLE @ 3549 (-2221)

3549-3594' DOL: MSTLY CRM- LT TN, SME OFF WHT, SLI FRM- FRM, SME MODFRM, PREDCHNKY- BLKY, FN- MEDFNXLN, SME SLI FRINTERXLNPOR, TR OF CHT

DRILLERS TD @ 3594





Pioneer Energy Services

Sonic Cement  
Bond Log

15-035-24579

Company Future Acquisition Company  
Well Herradura No.1  
Field Wilson  
County Cowley State Kansas

Location 2285' FSL & 1878' FWL

Other Services

Sec: 17 Twp: 33S Rge: 6E

Elevation

Permanent Datum Ground Level Elevation 1318  
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum  
Drilling Measured From Kelly Bushing

K.B. 1328  
D.F. 1326  
G.L. 1318

Run Number	One	
Date Survey	8/14/2014	
Date Cementing	6/24/2014	
Type Cementing Operation	Primary	
Depth Driller	3594	
Depth Logger	3544	
Logged Interval	3544 to 936	
Casing Driller	5.5 @ TD	@
Float Collar -- D.V. Tool	////	////
Squeeze Depth	////	
Amount & Type Cement	////	
Amount & Type Admix	////	
Type Fluid In Hole	Water	
Fluid Level	Full	
Salinity PPM CL	////	
Weight lb/gal -- Vis.	////	////
Approx. Logged Cement Top	1136	
Calculated Cement Top	////	
Max. Hole Temperature	////	
Tool No.	RBT 1-1	
Spacing Recorded	3-5	
Equipment -- Location	106	Pratt
Recorded By	M. Schwerdtfeger	
Witnessed By	Terry Madden	

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Thank you for using Pioneer Energy Services  
(620) 672-8300

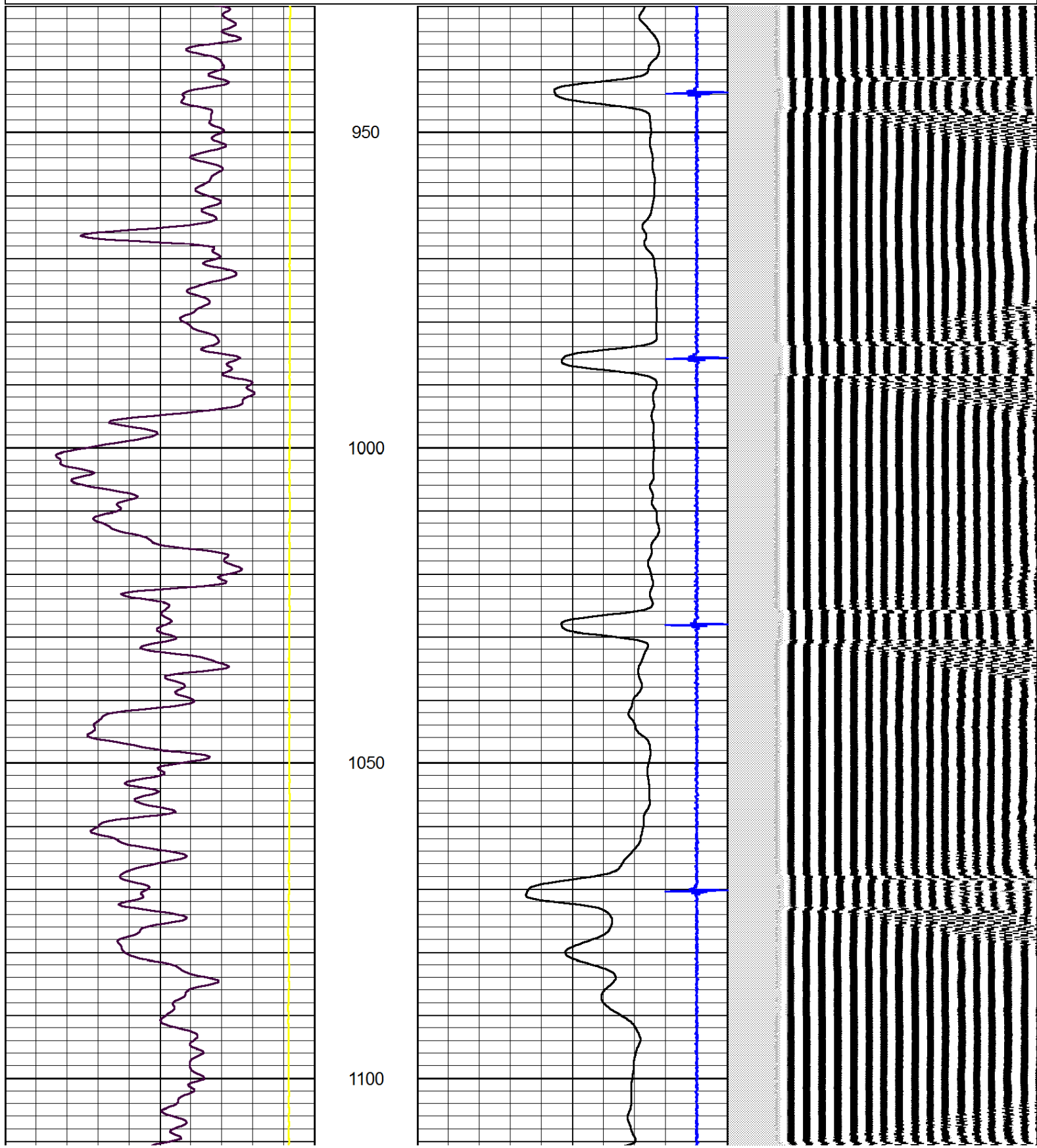
Winfield Ks,  
East To Co. Rd 1, 5 South, 5 1/2 East,  
East Into

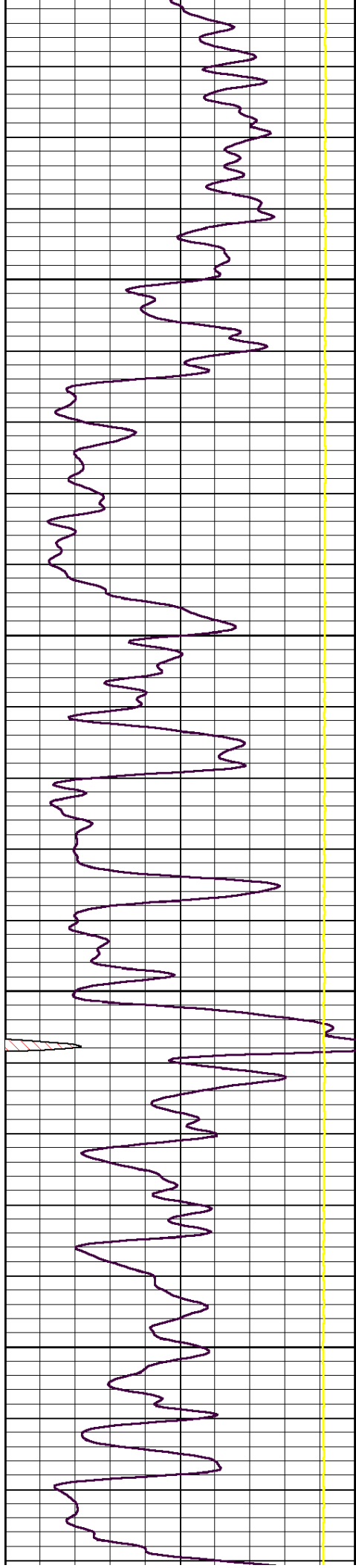


Main Pass

Database File: future\_herradura\_1.db  
Dataset Pathname: grcbl/pass4  
Presentation Format: cbldr  
Dataset Creation: Thu Aug 14 11:35:50 2014 by Log SCH 111116  
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150	amp3ft	10	Casing Collars	-1.1	200	wvf5ft	1200
			(mV)	0	Amplified Amplitude (mV)	100			
			-100	10	Pipe Amplitude (mV)	20			



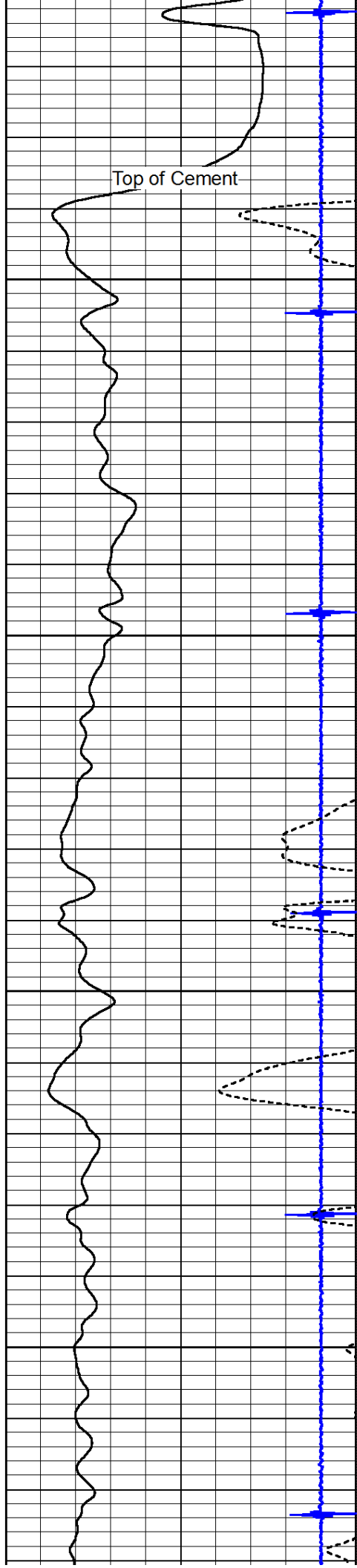


1150

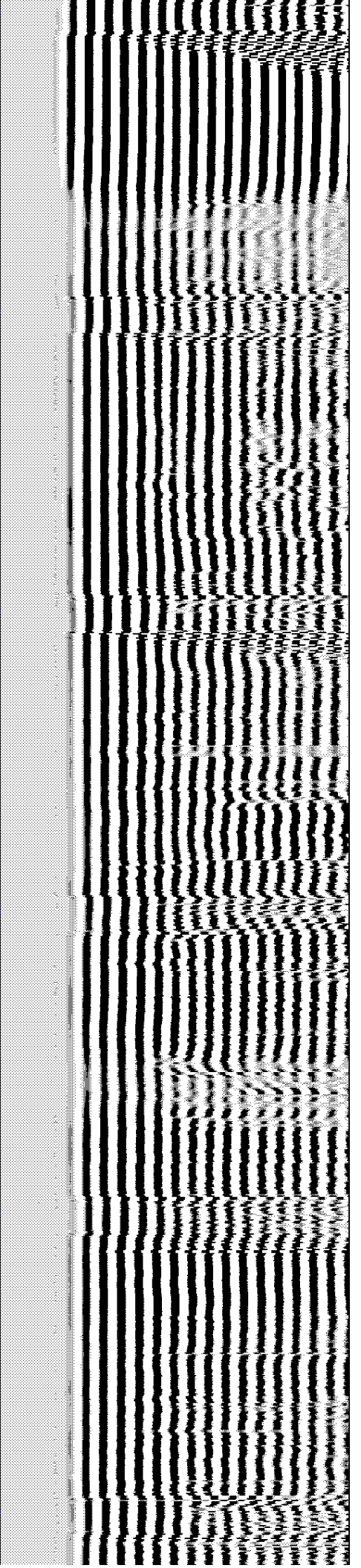
1200

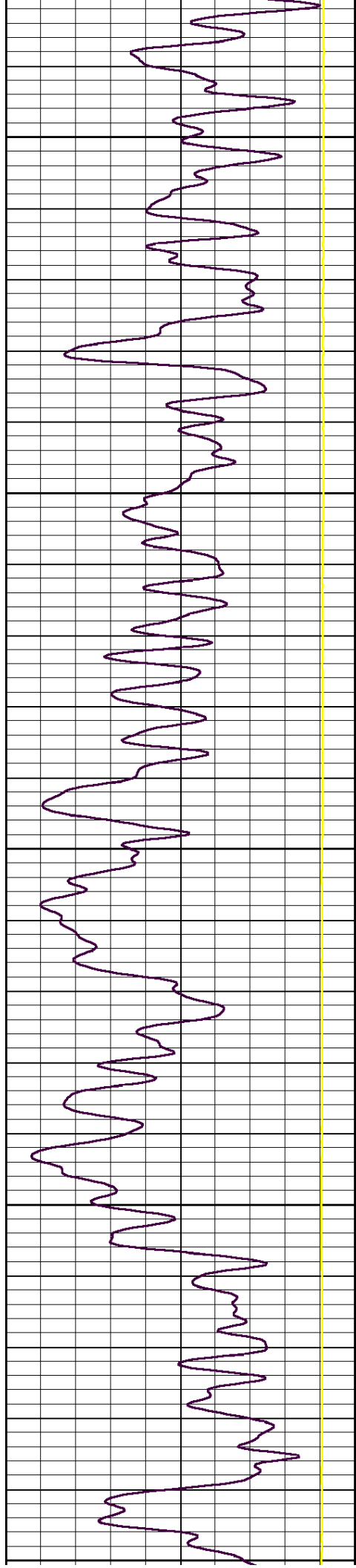
1250

1300



Top of Cement





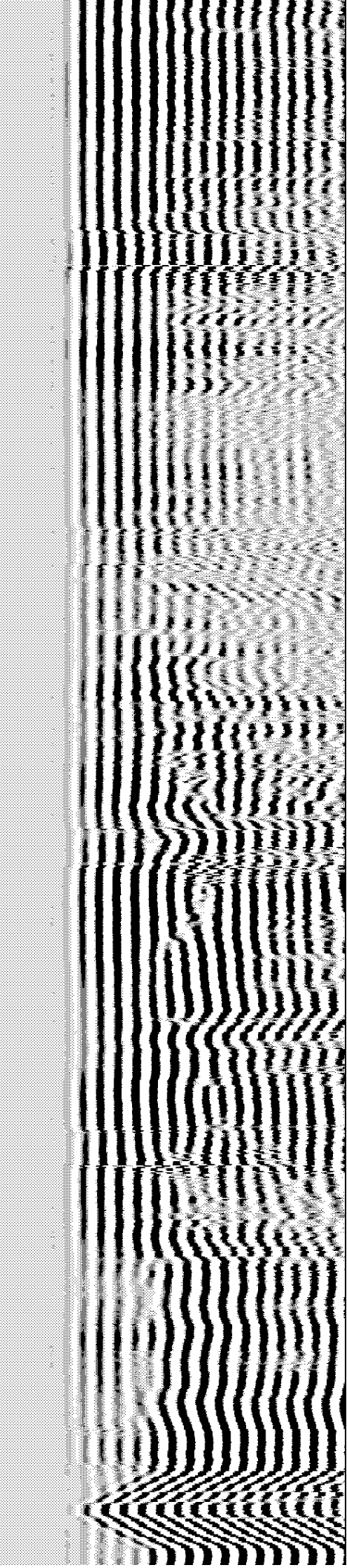
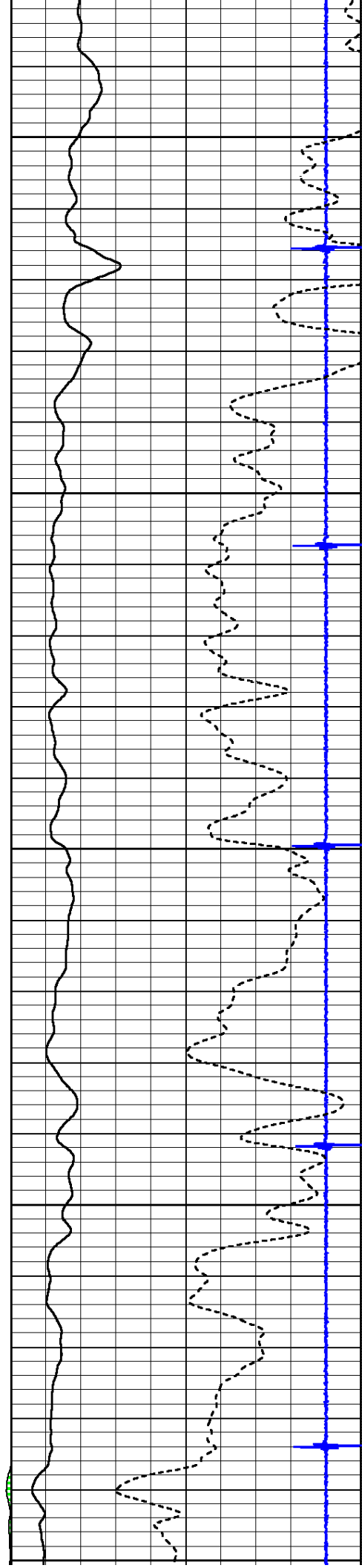
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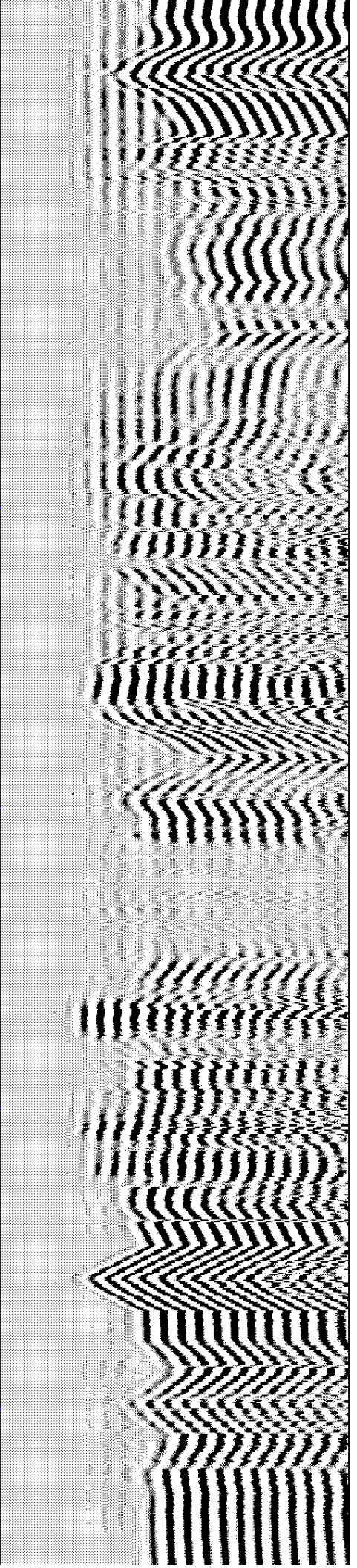
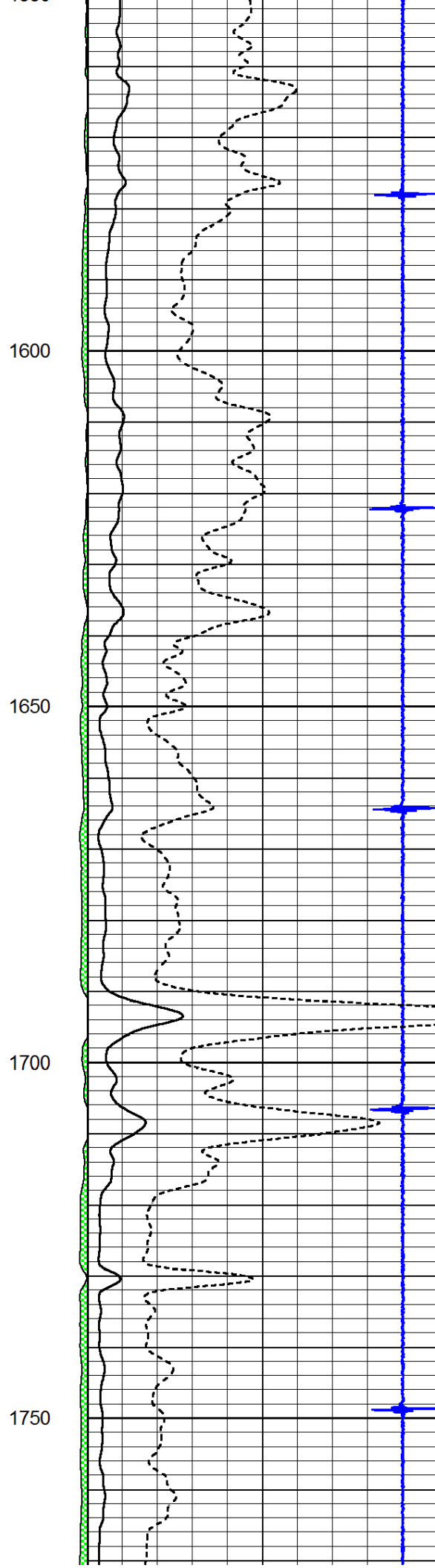
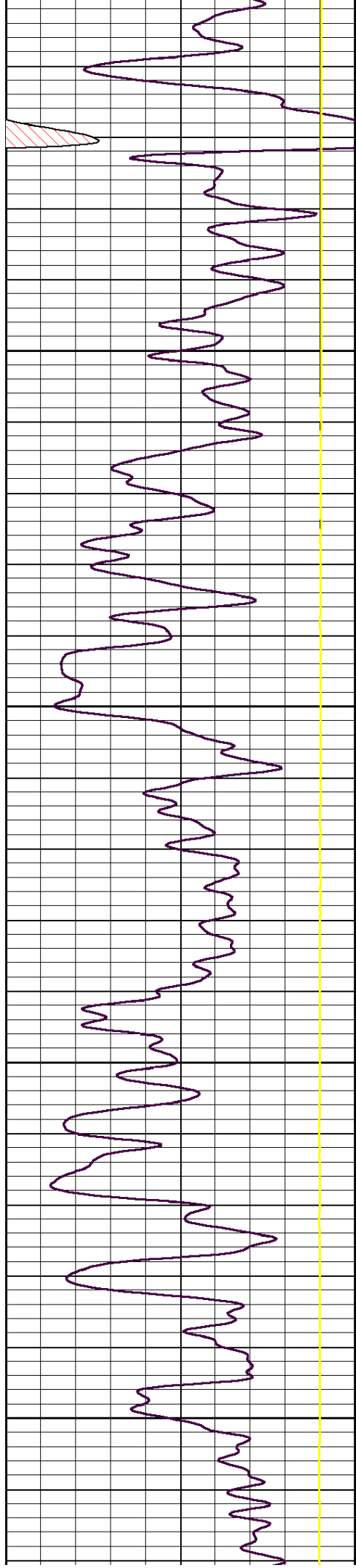
1400

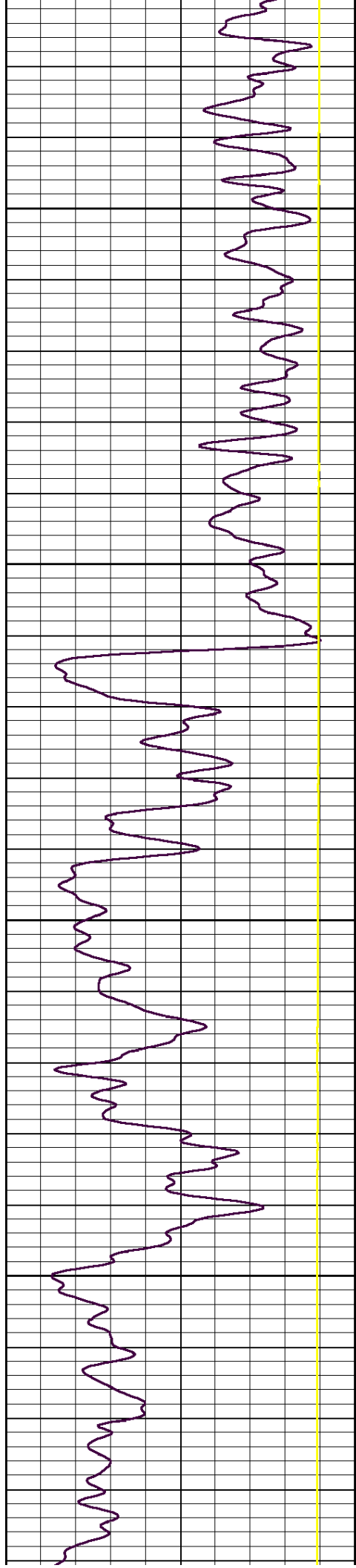
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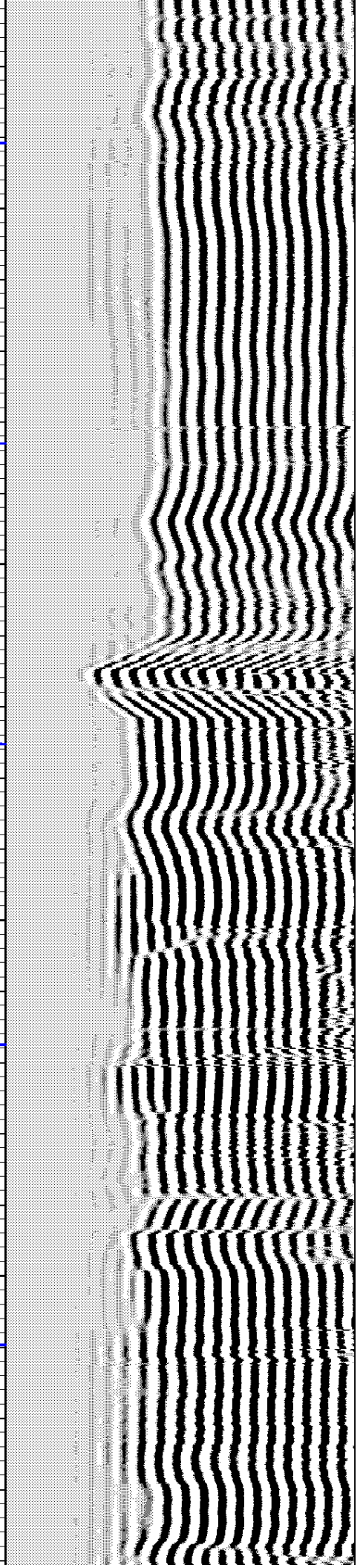
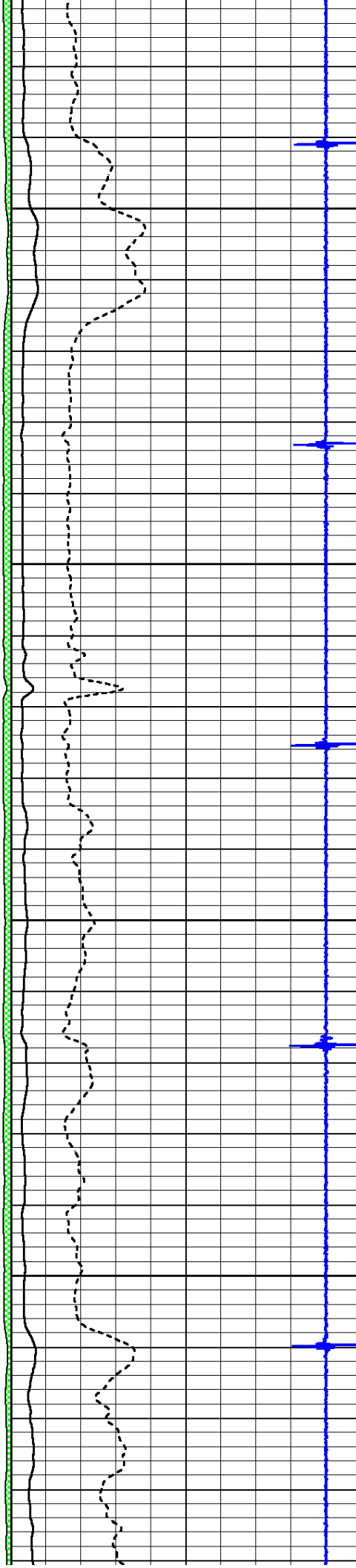


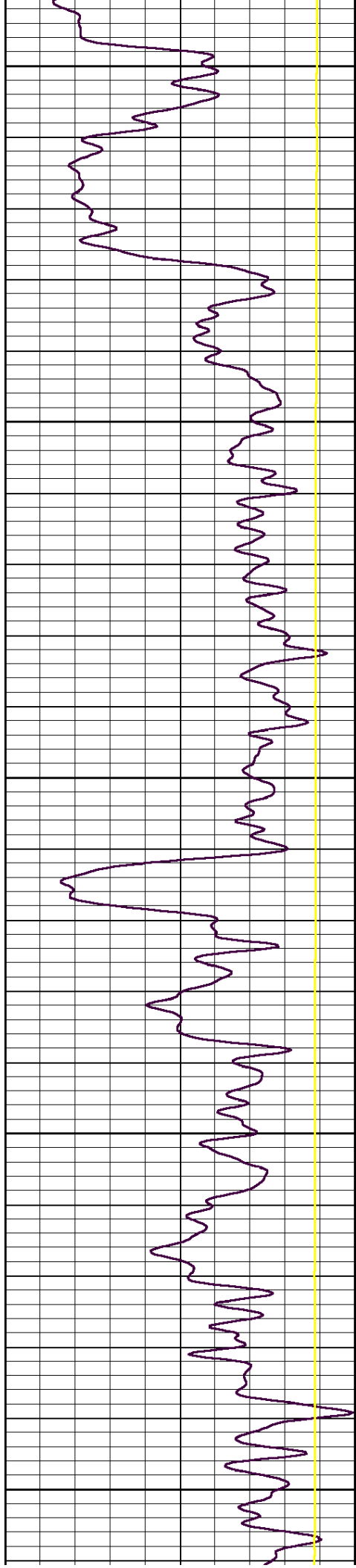
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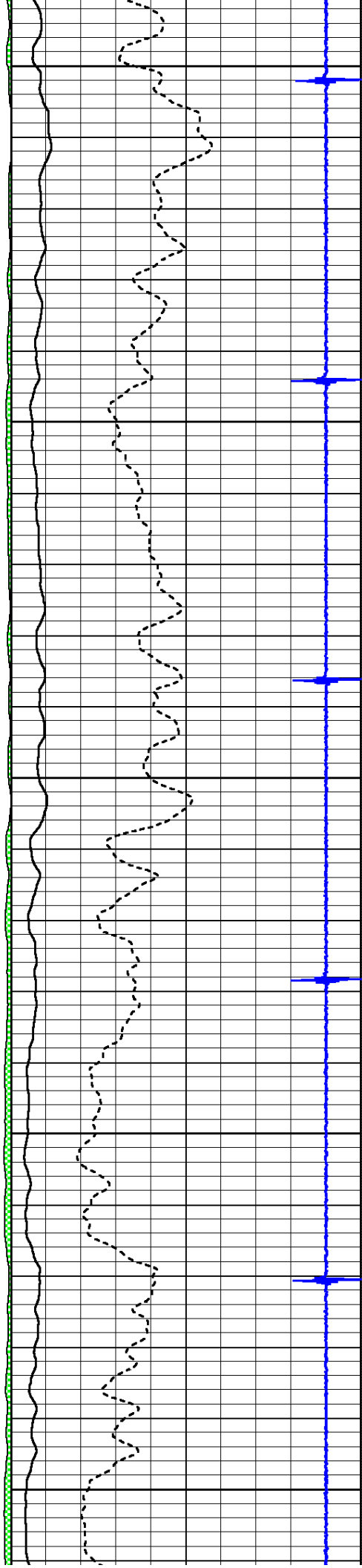
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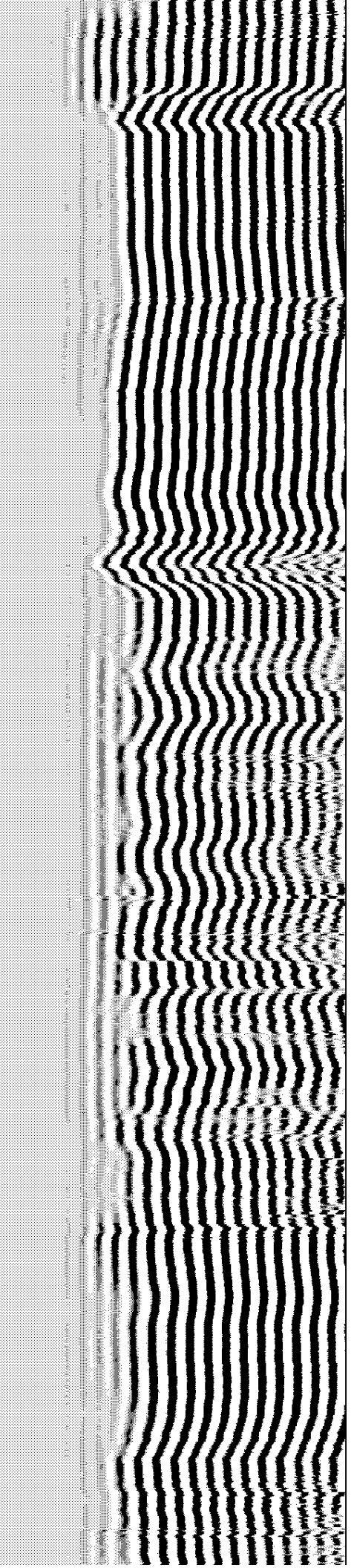
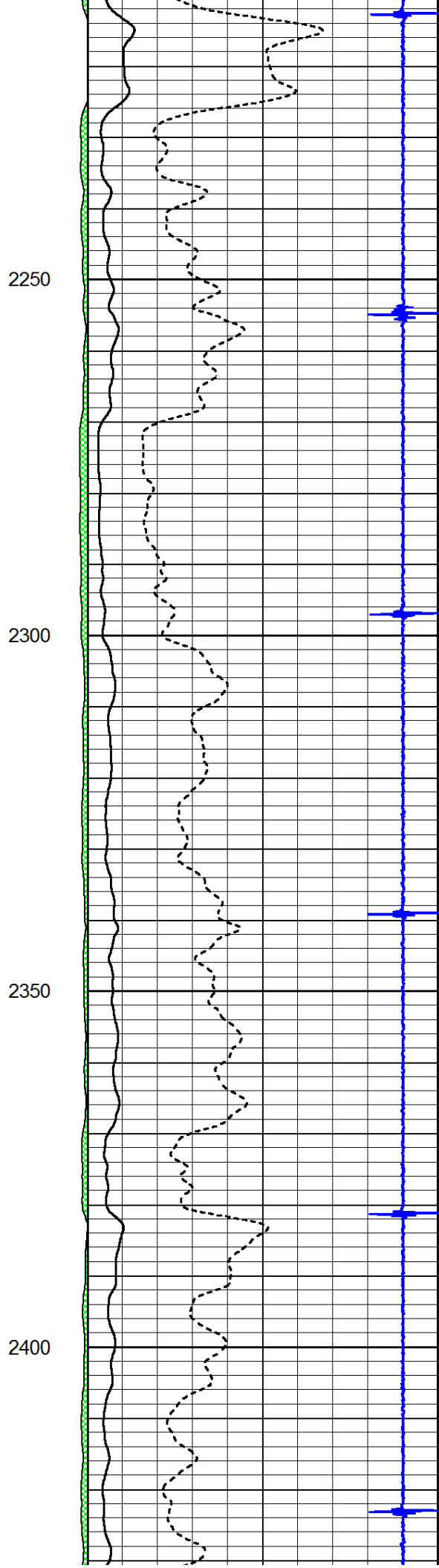
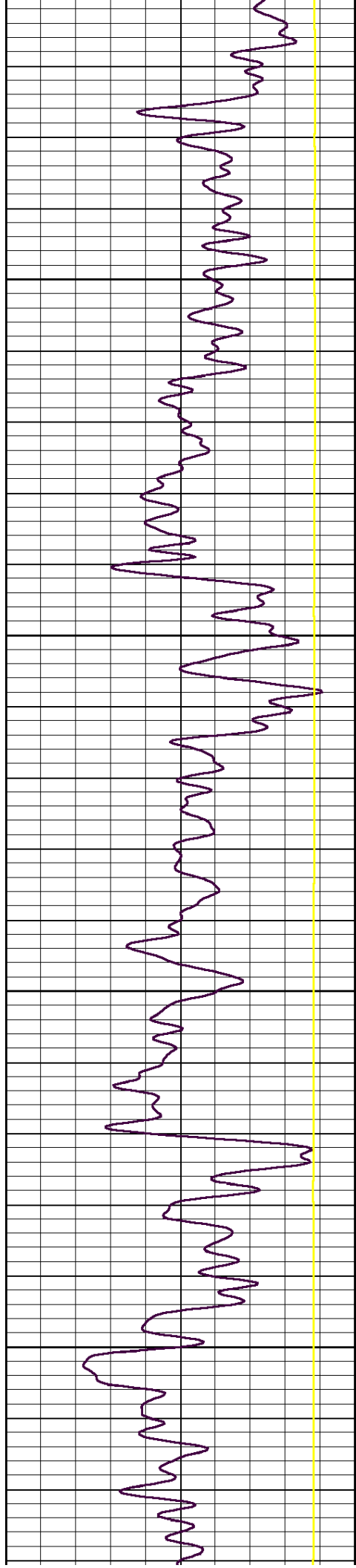
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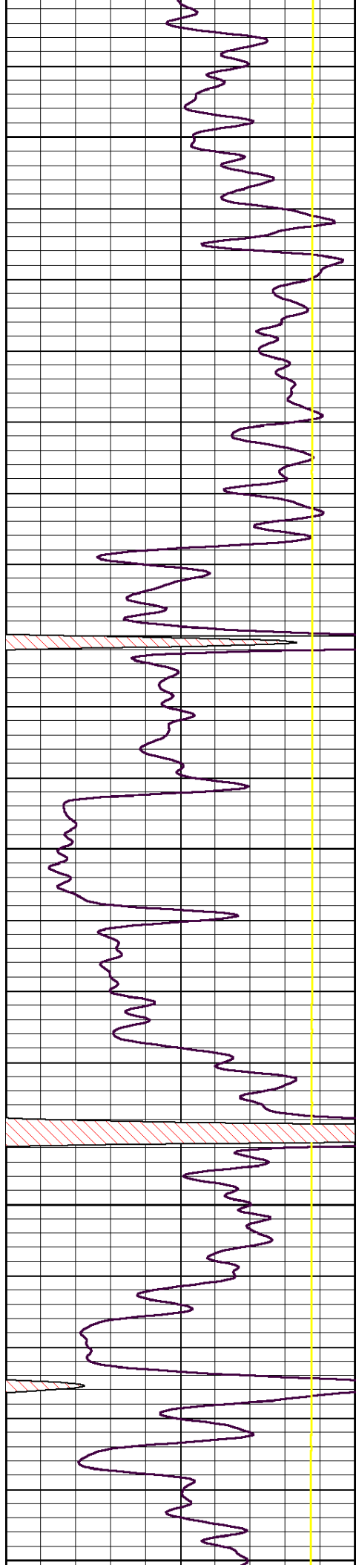
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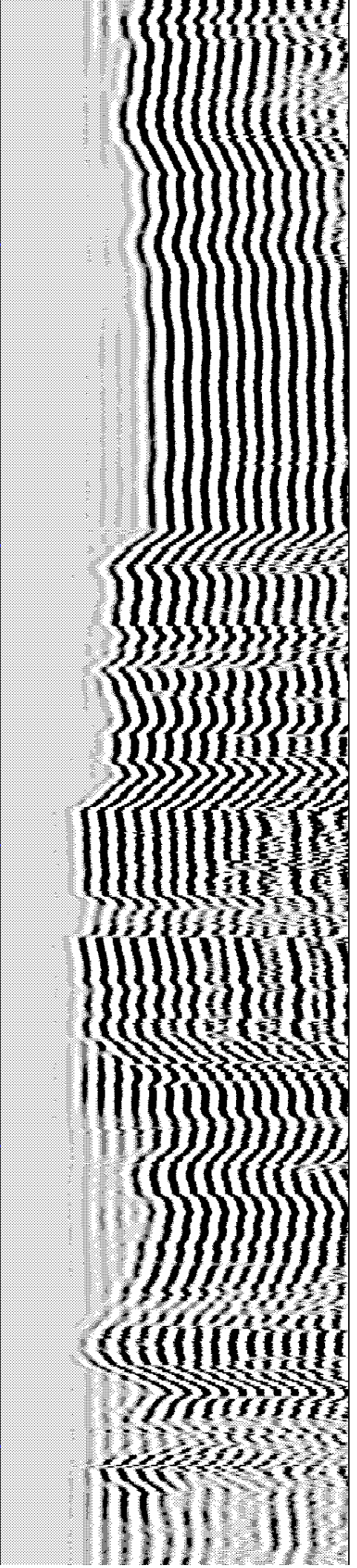
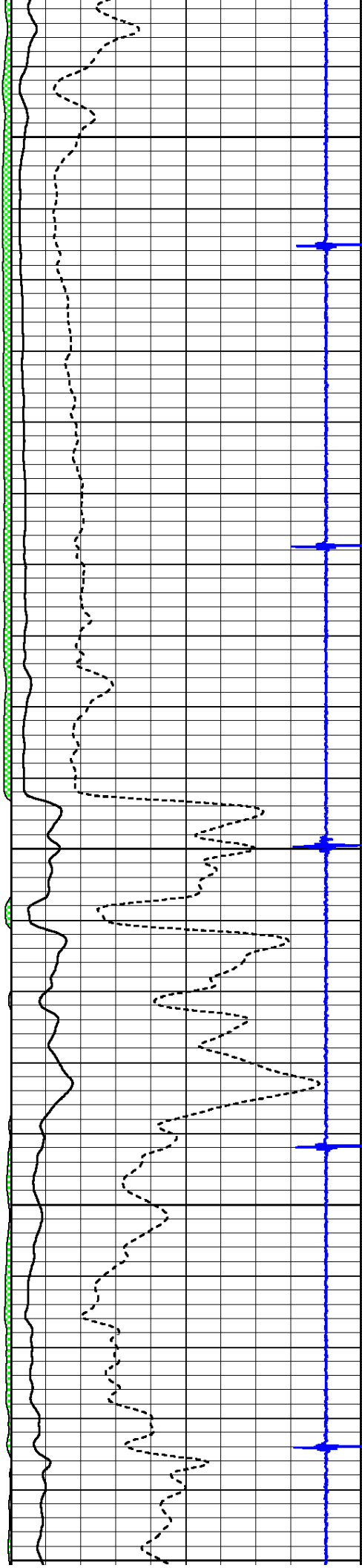
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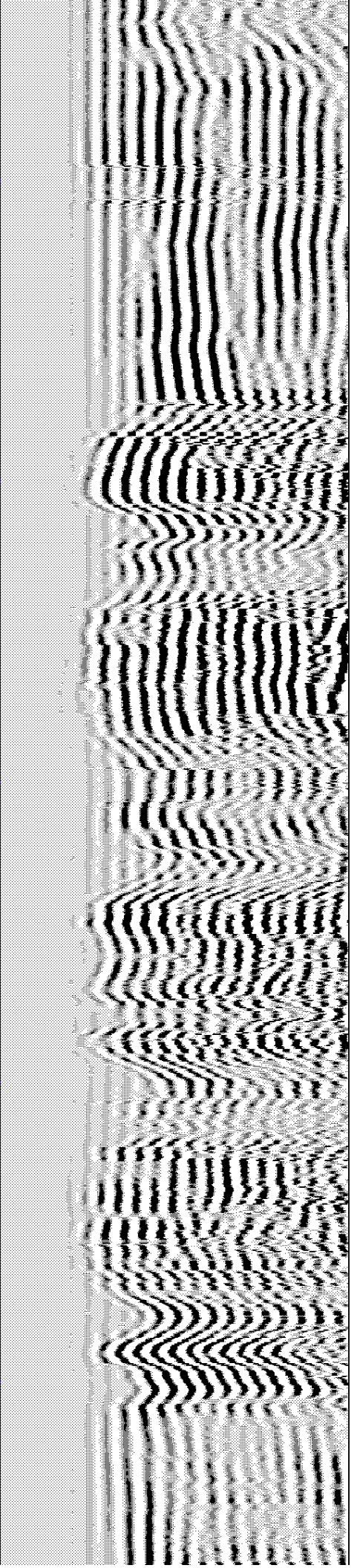
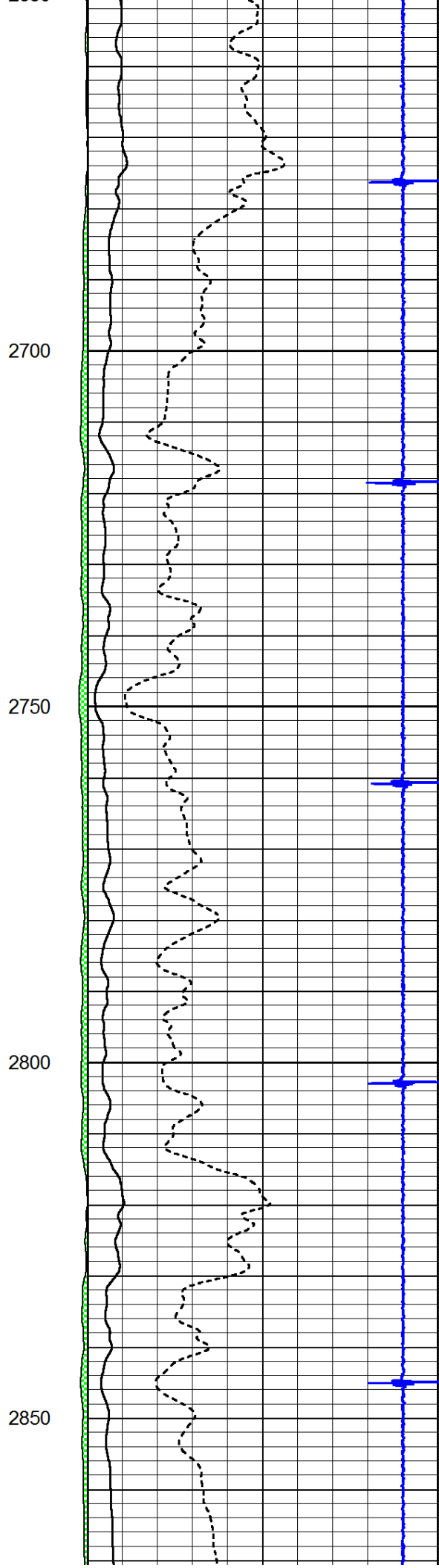
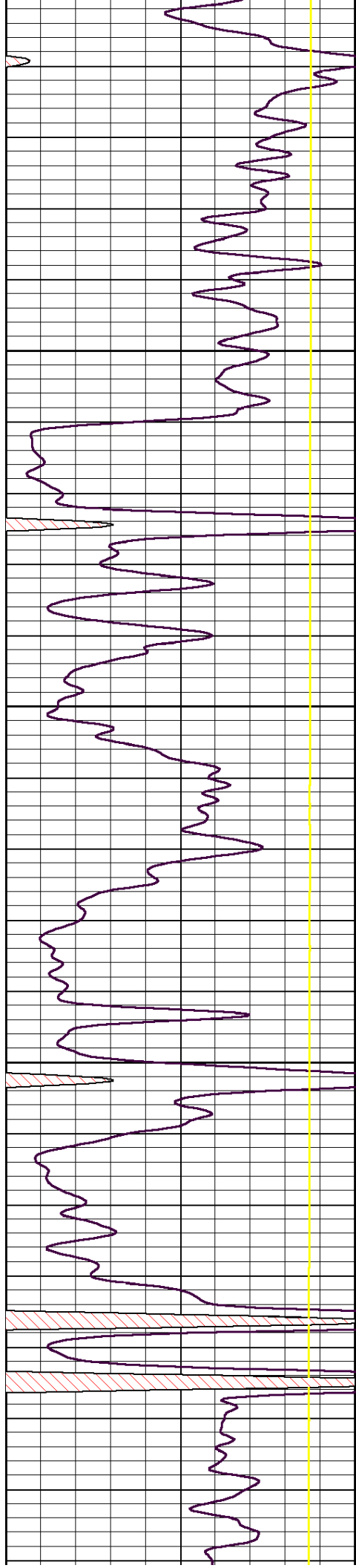
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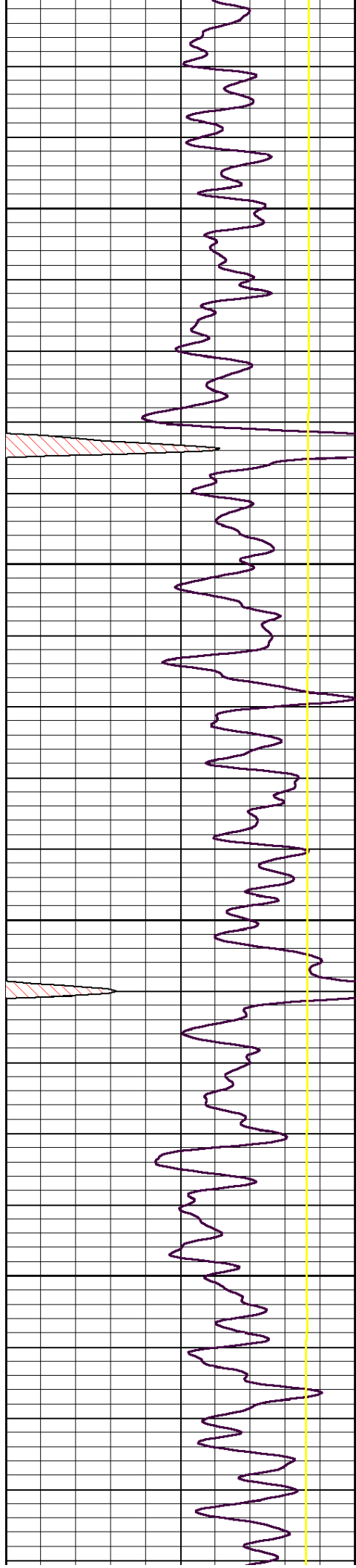
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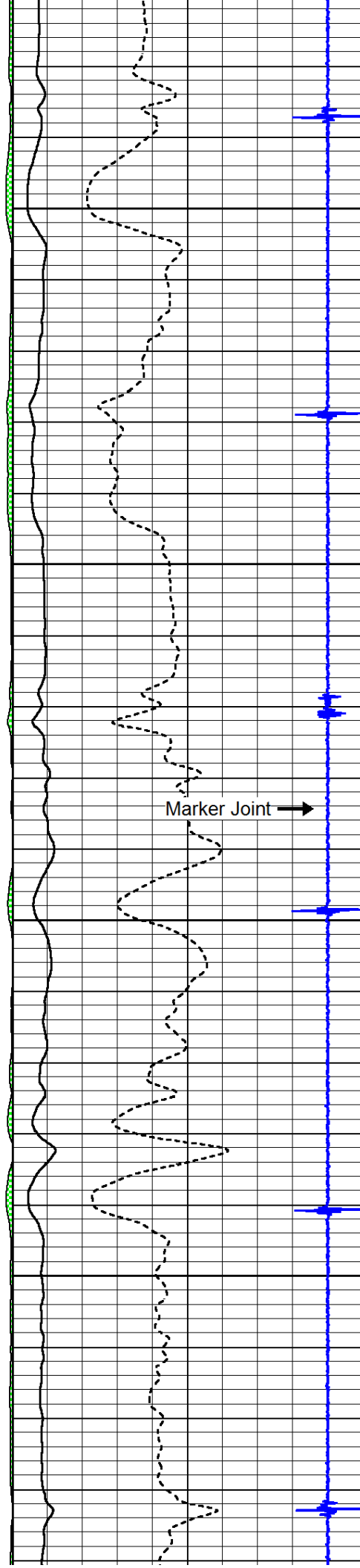


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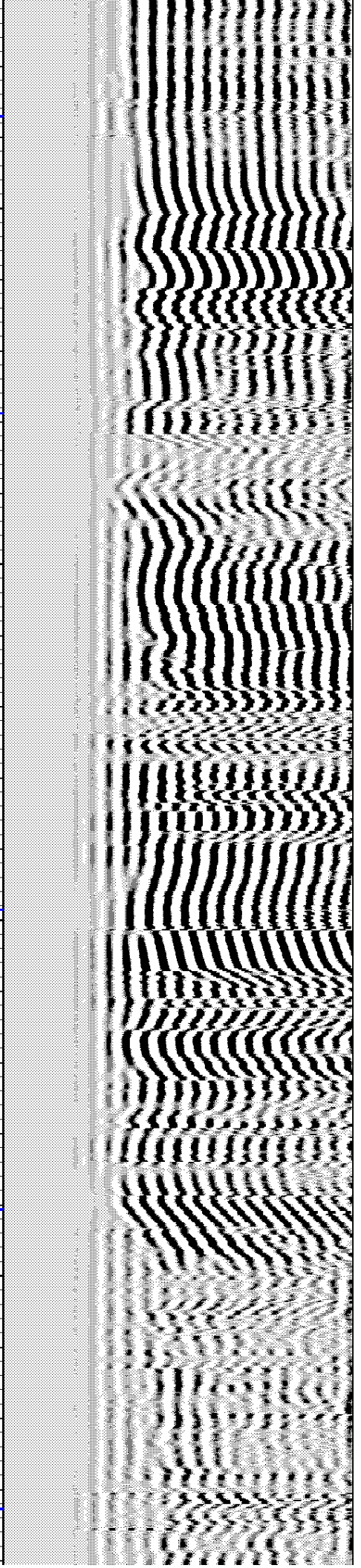
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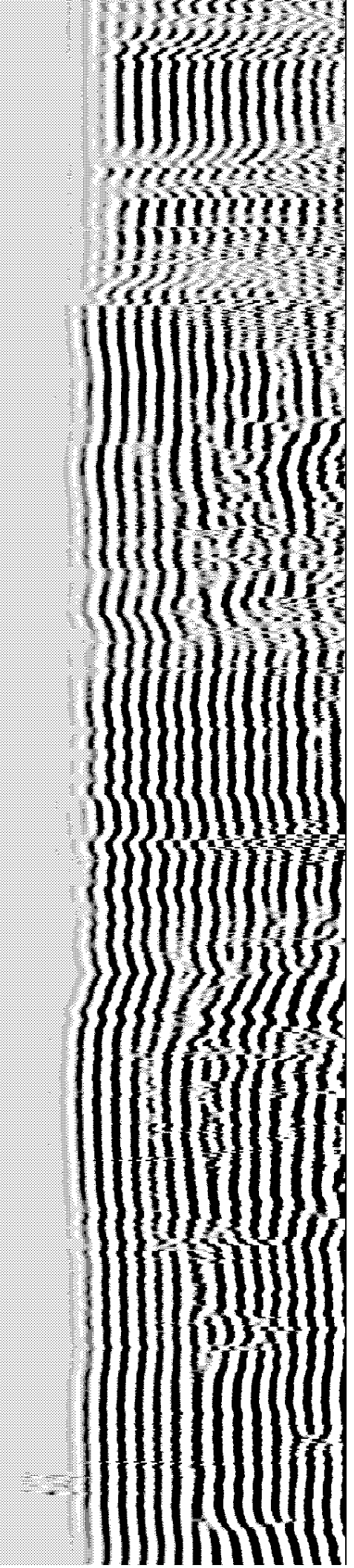
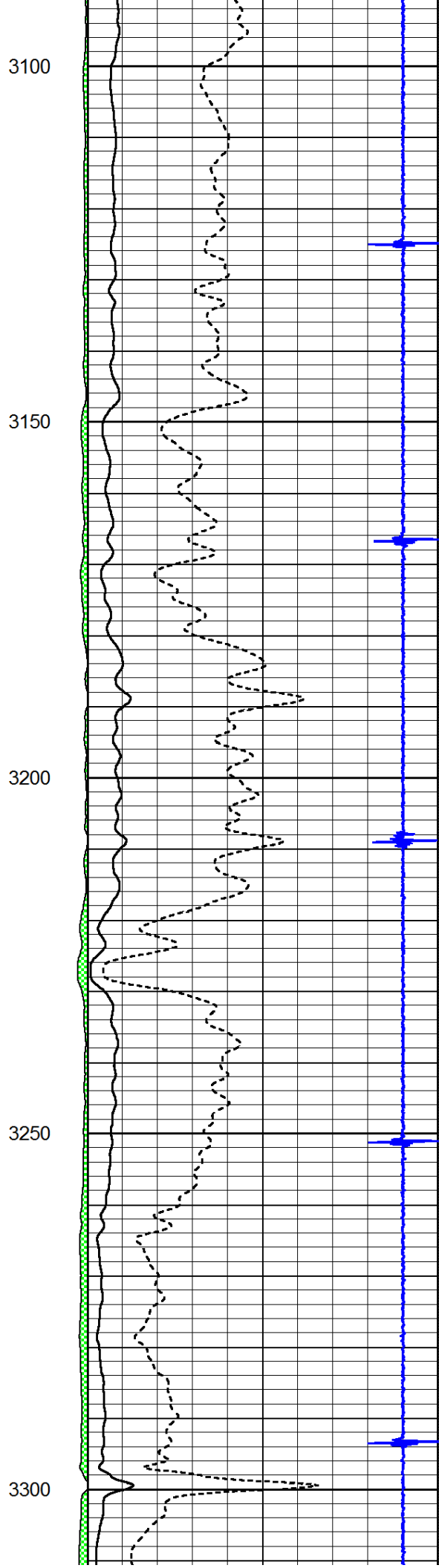
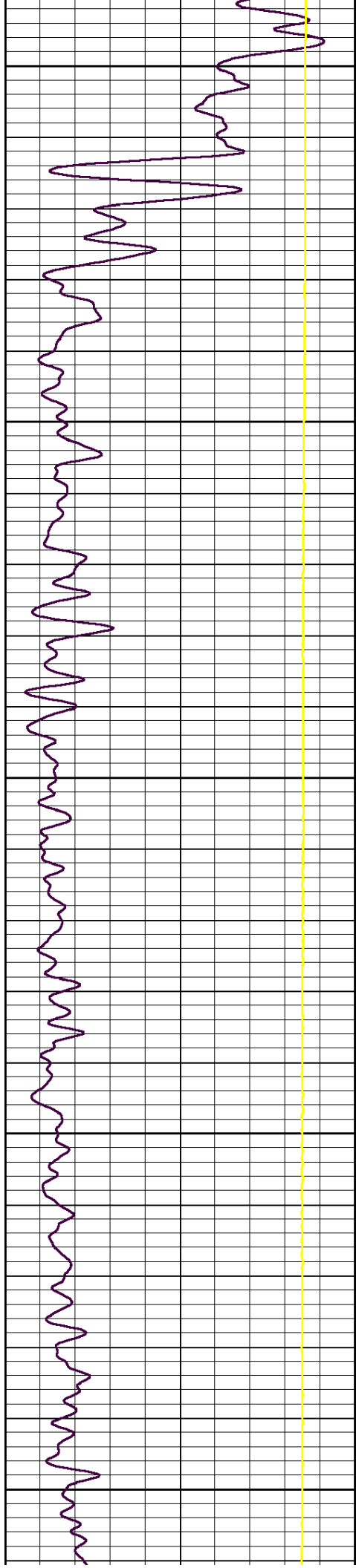
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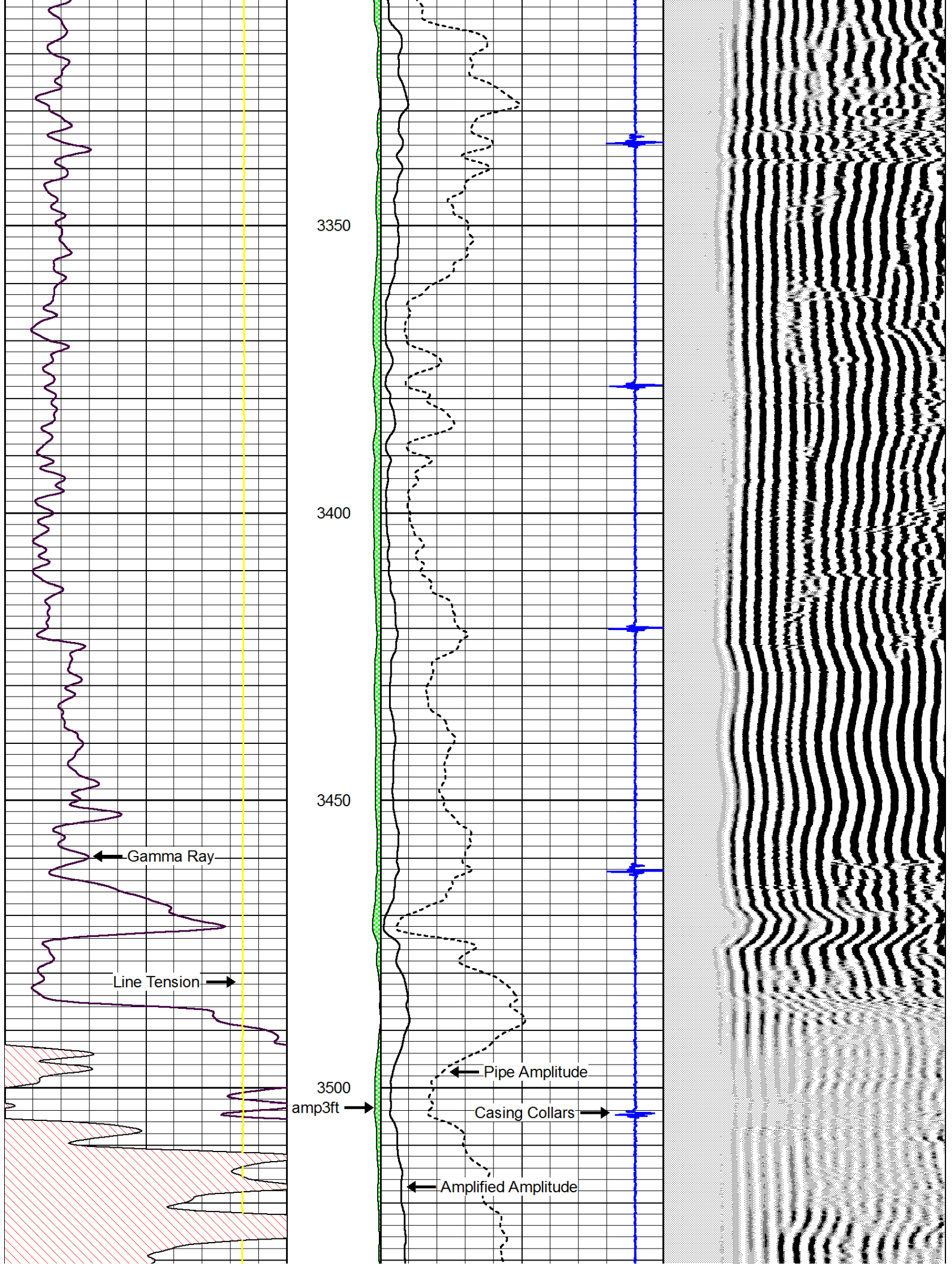
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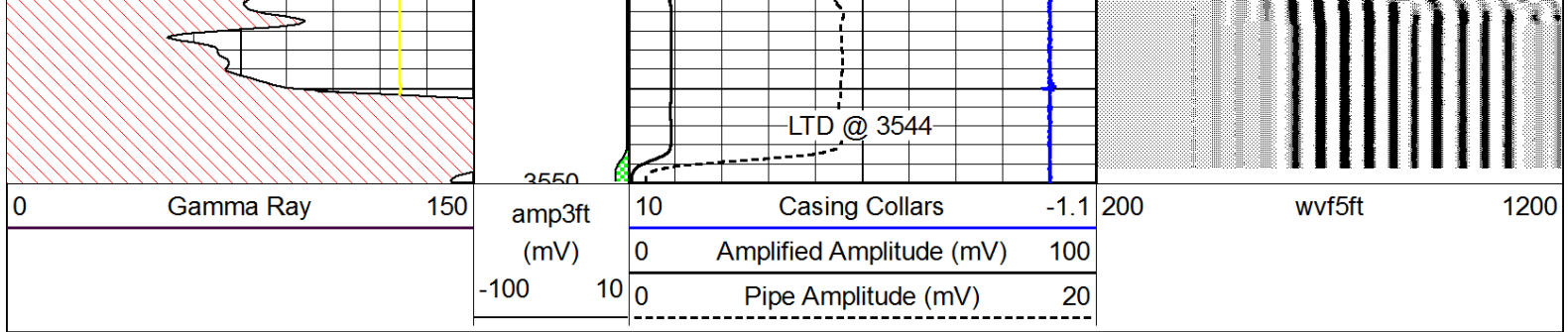



Marker Joint →



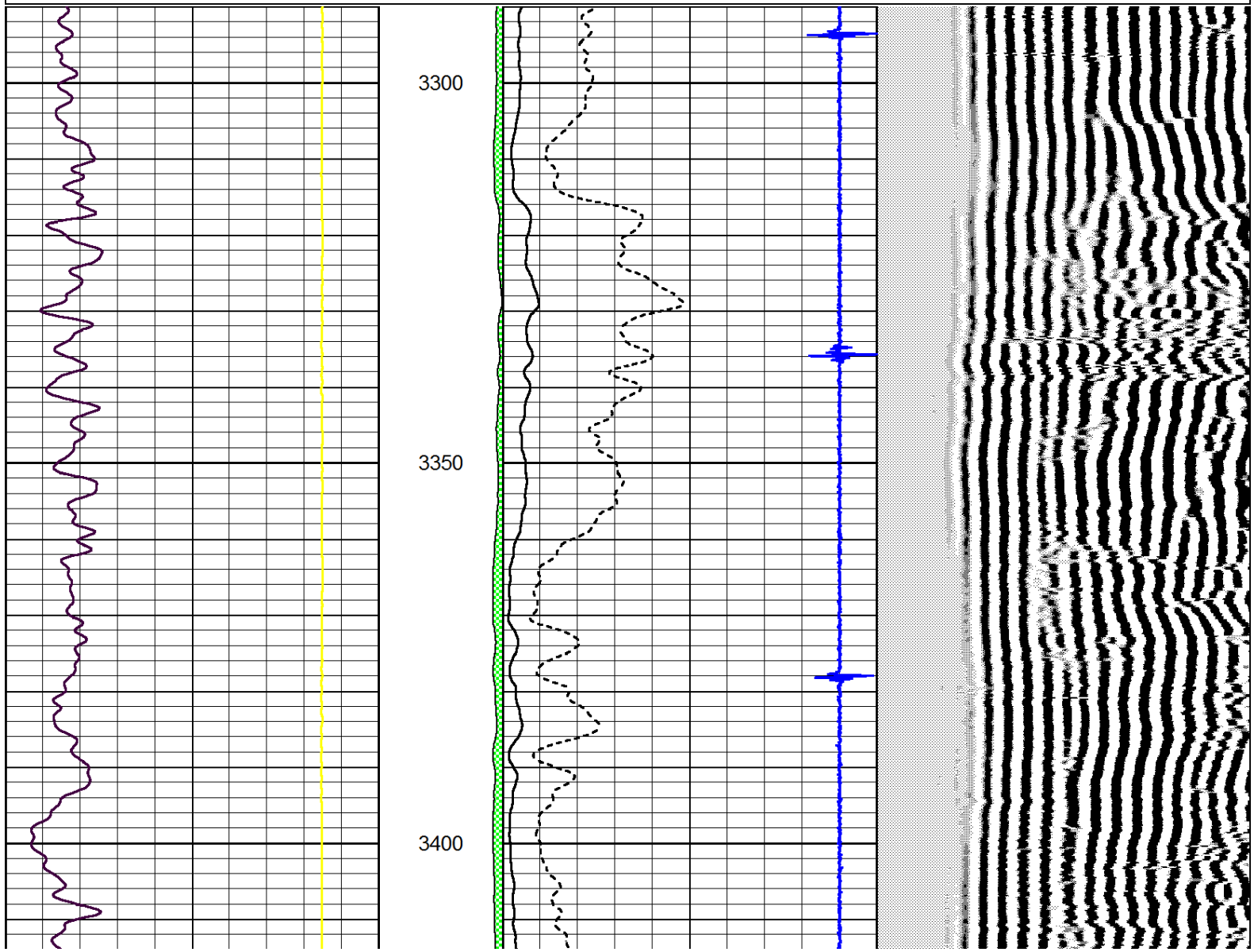
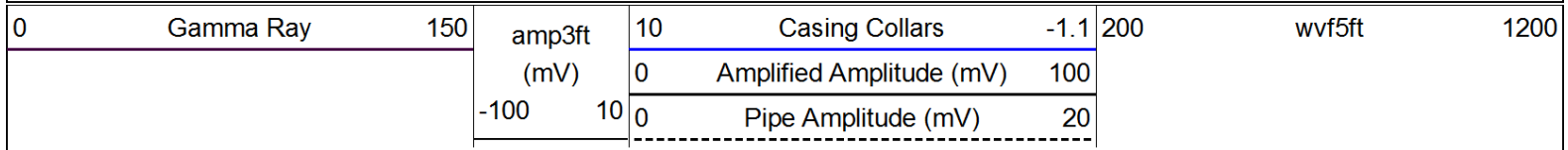


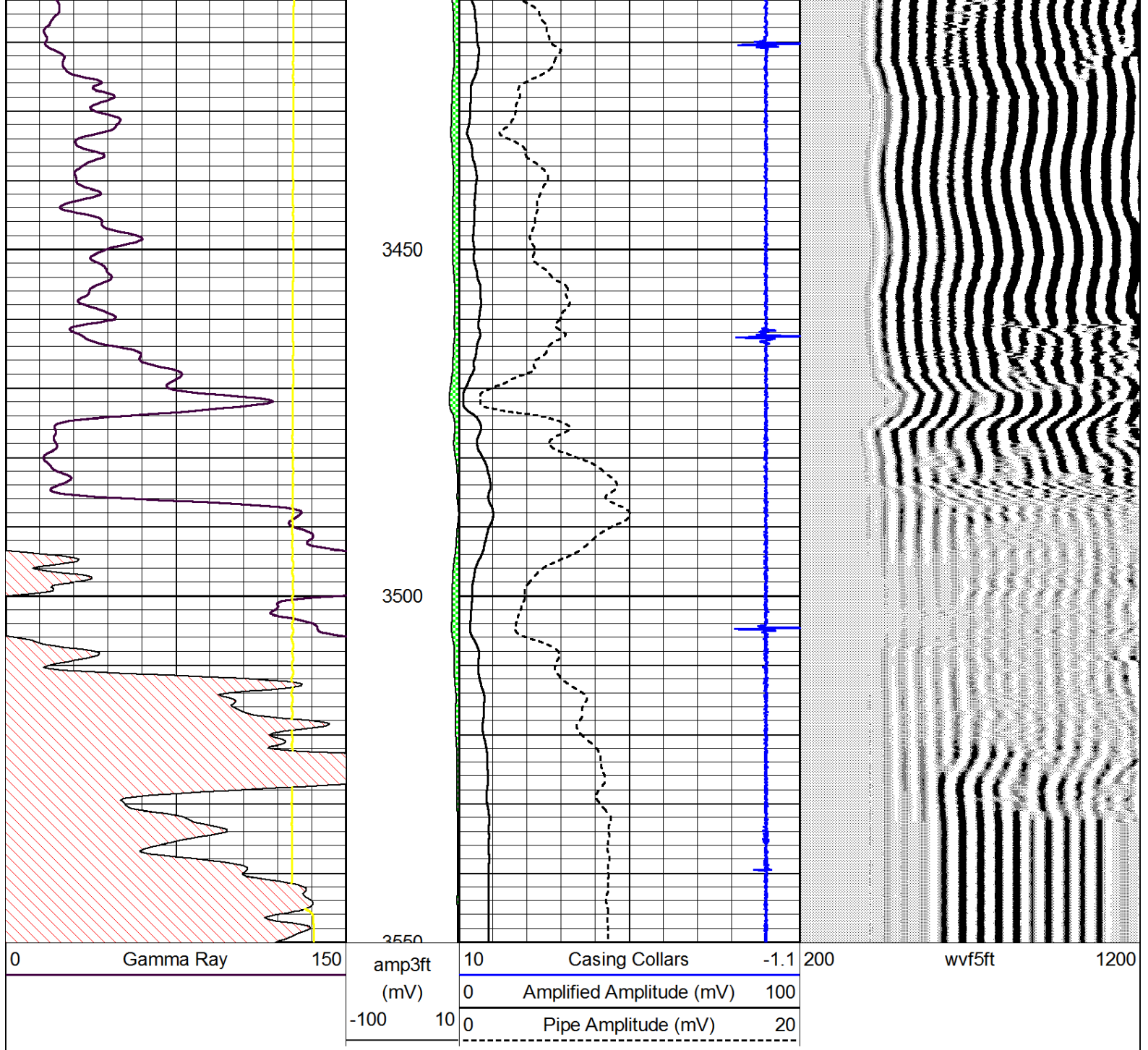


# Repeat Section

Database File: future\_herradura\_1.db  
 Dataset Pathname: grcbl/pass3  
 Presentation Format: cbldr  
 Dataset Creation: Thu Aug 14 11:28:20 2014 by Log SCH 111116  
 Charted by: Depth in Feet scaled 1:240







**REMIT TO**  
 Consolidated Oil Well Services, LLC  
 Dept. 970  
 P.O. Box 4346  
 Houston, TX 77210-4346

**MAIN OFFICE**  
 P.O. Box 884  
 Chanute, KS 66720  
 620/431-9210 • 1-800/467-8676  
 Fax 620/431-0012

INVOICE

Invoice # 268973

Invoice Date: 06/25/2014 Terms: 0/30/10,n/30 Page 1

FUTURE ACQUISITION COMPANY, LLC  
 P.O. BOX 1129  
 FULSHEAR TX 77441  
 (832) 831-3700

HERRADURA #1  
 46369  
 17/33S/6E  
 06/19/2014  
 KS

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	225.00	15.7000	3532.50
1102	CALCIUM CHLORIDE (50#)	540.00	.7800	421.20
1118B	PREMIUM GEL / BENTONITE	450.00	.2200	99.00
1107	FLO-SEAL (25#)	100.00	2.4700	247.00
4432	8 5/8" WOODEN PLUG	1.00	84.0000	84.00

Sublet Performed	Description	Total
9996-180	CEMENT MATERIAL DISCOUNT	-1289.91

Description	Hours	Unit Price	Total
446 CEMENT PUMP (SURFACE)	1.00	870.00	870.00
446 EQUIPMENT MILEAGE (ONE WAY)	50.00	4.20	210.00
491 TON MILEAGE DELIVERY	550.00	1.41	775.50

**RECEIVED**  
 JUL 03 2014

BY: .....

Amount Due 6519.77 if paid after 07/05/2014

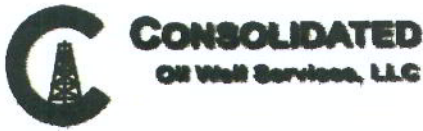
Parts:	4383.70	Freight:	.00	Tax:	198.02	AR	5147.31
Labor:	.00	Misc:	.00	Total:	5147.31		
Sublt:	-1289.91	Supplies:	.00	Change:	.00		

9285

Signed \_\_\_\_\_ Date \_\_\_\_\_



268973



TICKET NUMBER 46369  
 LOCATION 180  
 FOREMAN Jeff Shell

PO Box 884, Chanute, KS 66720  
 620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT

CEMENT API# 15-035-24579-00-00

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6/19/14	5014	Herradura # 1	17	335	6 E	Cowley
CUSTOMER Future Acquisition						
MAILING ADDRESS PO Box 1129						
CITY Fulshear		STATE TX	ZIP CODE 77441			
			TRUCK #	DRIVER	TRUCK #	DRIVER
			446	Josh G.		
			491	MARK G.		
			539	Jeff S.		

JOB TYPE Surface A HOLE SIZE 12 1/4 HOLE DEPTH 331 CASING SIZE & WEIGHT 8 5/8  
 CASING DEPTH 337 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.9 SLURRY VOL 54.50 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 20ft  
 DISPLACEMENT 20.0 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 5.3

REMARKS: Safety Meeting, broke circ. Pumped 225 SKS C1955 Acement 3% Calcium 2% gel 1/2 lb Polyflake displaced Plug down and Cement To Surface with 20 bbls freshwater

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	870.00	870.00
5406	50	MILEAGE	4.20	210.00
5407A	11 Ton	Ton Mileage delivery	1.41	775.50
11045	225 SKS	C1955 Acement	15.70	3532.50
1102	540 lbs	Calcium Chloride	.78	421.20
1118.B	450 lbs	Gel	.22	99.00
1107	100 lbs	Polyflake	2.47	247.00
4432	1	8 5/8 wooden Plug	84.00	84.00
			Sub total	6239.20
			Minus 3.0% Material Discount	1289.91
			Sub total	4949.29
			SALES TAX	198.02
			ESTIMATED	5147.31



**REMIT TO**  
**PAID**  
 Consolidated Oil Well Services, LLC  
 Dept. 970  
 P.O. Box 4346  
 Houston, TX 77210-4346

**MAIN OFFICE**  
 P.O. Box 884  
 Chanute, KS 66720  
 620/431-9210 • 1-800/467-8676  
 Fax 620/431-0012

INVOICE

Invoice # 269050

Invoice Date: 06/27/2014 Terms: 0/30/10,n/30

Page 1

FUTURE ACQUISITION COMPANY, LLC  
 P.O. BOX 1129  
 FULSHEAR TX 77441  
 (832) 831-3700

HERRADURA #1  
 46395  
 17/33S/6E  
 06/23/2014  
 KS

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	250.00	15.7000	3925.00
1102	CALCIUM CHLORIDE (50#)	470.00	.7800	366.60
1118B	PREMIUM GEL / BENTONITE	705.00	.2200	155.10
1110A	KOL SEAL (50# BAG)	1250.00	.4600	575.00
4159	FLOAT SHOE AFU 5 1/2"	1.00	361.0000	361.00
4454	5 1/2" LATCH DOWN PLUG	1.00	266.7500	266.75
4136	TURBOLIZER 5 1/2"	8.00	75.7500	606.00
4104	CEMENT BASKET 5 1/2"	2.00	290.0000	580.00
1144G	MUD FLUSH (SALE)	500.00	.0000	.00

Sublet Performed	Description	Total
9996-180	CEMENT MATERIAL DISCOUNT	-1506.51
9999-180	MISC DISCOUNT FOR LOST RIG TIME	-1500.00

Description	Hours	Unit Price	Total
446 CEMENT PUMP	1.00	1085.00	1085.00
446 EQUIPMENT MILEAGE (ONE WAY)	64.00	4.20	268.80
446 TON MILEAGE DELIVERY	755.00	1.41	1064.55

**RECEIVED**  
 JUL 03 2014

BY: .....

Amount Due 9691.26 if paid after 07/07/2014

Parts:	6835.45	Freight:	.00	Tax:	341.04	AR	6588.33
Labor:	.00	Misc:	.00	Total:	6588.33		
Sublt:	-3006.51	Supplies:	.00	Change:	.00		

9389

Signed \_\_\_\_\_ Date \_\_\_\_\_



269050

TICKET NUMBER 46395  
 LOCATION El Dorado  
 FOREMAN Fuzz Y

PO Box 884, Chanute, KS 66720  
 620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-23-14	5014	Herradura #1	17	33S	6E	Cowley
CUSTOMER Future Acquisitions			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS P.O. Box 1129			446 Jash			
CITY Fulshear Tx			713 Mark			
STATE TX			1/2 W			
ZIP CODE 77441			E-N			

JOB TYPE Production HOLE SIZE 17 1/8 HOLE DEPTH \_\_\_\_\_ CASING SIZE & WEIGHT 5"2 15.5  
 CASING DEPTH 3589' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.8 SLURRY VOL 1.42 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 42 3/8  
 DISPLACEMENT 84.4 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting on 4/1 \* 5 Float equip Turbo's 3-6-9-12-17-25-32-40  
Baskets top #1-15. Rig up and circulate pump 500 gal water 500 gal  
Dv1100 SBB water mix 225 sks class A 3/4 gel 2 1/2 cc  
S/Kol-Sral displaced with 84.24 bbl water landing plug  
at 1250 psi Retired plug held, plug bathole with 25 sks  
CLASS A  
lost Rig time due to missing material

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	1085 <sup>00</sup>	1085 <sup>00</sup>
5406	64	MILEAGE	420	268 <sup>50</sup>
5407A	11.840W	Ton mileage Delivery	141	1064 <sup>51</sup>
11045	250 sks	Class A	15 <sup>20</sup>	3925 <sup>00</sup>
1102	470*	Calcium chloride	.78	366 <sup>00</sup>
1108B	705*	Bentonite	.22	155 <sup>10</sup>
1110A	1250*	Kol-sral	.46	575 <sup>00</sup>
4159	1	5"2 - AFU float shoe	361 <sup>00</sup>	361 <sup>00</sup>
4454	1	5"2 - Landdown Assy	266 <sup>25</sup>	266 <sup>25</sup>
4136	8	5"2 - S-Band Turbolizers	75 <sup>25</sup>	606 <sup>00</sup>
4104	2	5"2 - Baskets	290 <sup>00</sup>	580 <sup>00</sup>
11445	500	Dv1100 (Mud flush)	1.10	N/C
		Subtotal		9353.80
		30% discount - cement materials		1506.51
9999		*Missing misc discount per lost Rig time		1500.00
		total		6247.29
		SALES TAX		341.04
		ESTIMATED TOTAL		6588.33