



Confidentiality Requested:

Yes No

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: _____

1269785

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
--	---

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: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Knighton Oil Company, Inc.
Well Name	Kachelman 4
Doc ID	1269785

Tops

Name	Top	Datum
Anhydrite	852	+1122
Heebner	3514	-1540
Lansing	3684	-1710
BKC	3944	-1970
Mississippian	4038	-2064
Viola	4120	-2146
Simpson Shale	4278	-2304
Arbuckle	4330	-2356

Summary of Changes

Lease Name and Number: Kachelman 4

API/Permit #: 15-185-23903-00-00

Doc ID: 1269785

Correction Number: 2

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	12/05/2014	11/02/2015
Save Link	../../../../kcc/detail/operatorEditDetail.cfm?docID=1234193	../../../../kcc/detail/operatorEditDetail.cfm?docID=1269785
Tubing Set At		4100



Confidentiality Requested:

 Yes No**CONFIDENTIAL****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

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 DistributionALT I II III Approved by: _____ Date: _____



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1223604
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

CONFIDENTIAL 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: _____

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- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
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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: _____

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
--	---

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	Knighton Oil Company, Inc.
Well Name	Kachelman 4
Doc ID	1223604

Tops

Name	Top	Datum
Anhydrite	852	+1122
Heebner	3514	-1540
Lansing	3684	-1710
BKC	3944	-1970
Mississippian	4038	-2064
Viola	4120	-2146
Simpson Shale	4278	-2304
Arbuckle	4330	-2356

Form	ACO1 - Well Completion
Operator	Knighton Oil Company, Inc.
Well Name	Kachelman 4
Doc ID	1223604

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4128-4132	Acidize 250 gal	Viola
4	4136-4146	Acidize 250 gal	Viola
4	4166-4172	Acidize 250 gal	Viola

DAVID D MONTAGUE

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY KNIGHTON OIL COMPANY, INC.

LEASE No. 4 Kachelman

FIELD Albano West

LOCATION 1350' FEL & 330' FSL

SEC 11 TWPSP 25 S RGE 14 W

COUNTY Starbald STATE Kansas

CONTRACTOR Duke Drig., Rig 1

SPUD 9/8/14 COMP 9/15/14

RTD 4390' LTD 4389

MUD UP 3000' TYPE MUD chemical

ELEVATIONS

KB 1974

DF 1962

GL 1962

Measurements Are All From KB

CASING

SURFACE 8 5/8", 270'/300sx

PRODUCTION 5 1/2", 4340/260sx

ELECTRICAL SURVEYS

CNL/COL & DIL

SAMPLES SAVED FROM 3450 TO RTD

DRILLING TIME KEPT FROM 3000 TO RTD

SAMPLES EXAMINED FROM 3500 TO RTD

GEOLOGICAL SUPERVISION FROM 3500 TO RTD

GEOLOGIST ON WELL Dave Montague (A.P. 15-185-23903-00-001)

FORMATION TOPS LOG SAMPLES

HEBNER	3514 (-1540)
LANSING	3684 (-1710)
MISSISSIPPIAN	4038 (-2064)
VIOLA	4120 (-2146)
SIMPSON SHALE	4278 (-2304)
ARBUCKLE	4330 (-2356)

DAILY PENETRATION				BIT RECORDS			
DATE	DEPTH	NO	SIZE	MAKE	TYPE	DEPTH	DUT
9/8/14	SPUD, 6:45 PM	1	12 1/4"	Varel	RR	271'	
9/9/14	W.O.C. 271'	2	7 7/8"	Varel	HE 21		
9/10/14	1700' Drig.						
9/11/14	2780' Drig.						
9/12/14	3657' Drig.						
9/13/14	3846' Drig.						
9/14/14	4328' Drig.						
9/15/14	4390', Pipe set						

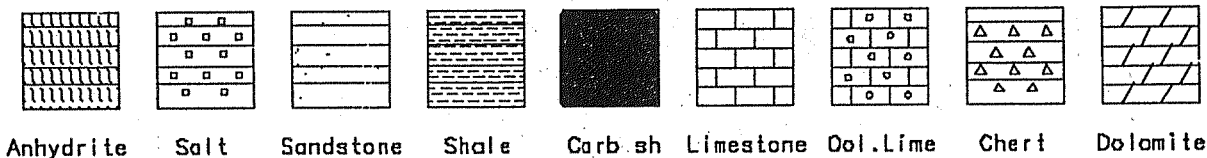
DRILL STEM TESTS

No.	Interval	IFP/Time	ISIP/Time	FFP/Time	FSIP/Time	IHH-FHH
1	3801 to 3821	14-19 30"	740 60"	18-20 30"	704 60"	1845-1876

REMARKS AND RECOMMENDATIONS

FEET 271'
HOURS 2.5

LEGEND



SCALE " = 100'

MONT01-7

DRILLING TIME In Minutes	DEPTH	SAMPLE DESCRIPTION	REMARKS
0	3400		
5			
10			
15			
20			
	50	ls, crs, lt grn, fm-med Xln, cherty in pt chalty in pt, tr grn, qm sh	
		ls, lt grn, qm, fm-med Xln, a fresh, qm, sli loss, chalty in pt	vis 100, B. SWT, 5# LCM
		ls, lt grn, qm, fm-med Xln	Geologist on location 1:30 AM 9/12/14
		ls, buff, crs, fm Xln w/ls brn, blocky, hd w/tr sh, qm, dk grn, blk some argil ls	
	3500	ls, crs, lt grn, fm-med Xln, sli sh in pt, plty chalty tr sh shale, blk, carb	
		ls, crs, tan, fm Xln sh, silty grn, salt	
		ls, crs, lt grn, fm Xln w/inter Xln, ppp	
		ls, tan, qm, med Xln blocky, dus w/ls buff fm Xln dus w/sh, dk grn, blk	
		ls, tan, w/sh, qm, qm	

HEEBNER
3514 (-1540)

Log Top

GIP, Dec 30'
w/ (1% Oil)

RECOVERY

50

blk
ls, con, buff, fm xln
to inter xln
ls, Ad. w/ sh, qm, qm
argil ls in pt
sh, qm, green, red, blk
w/ to siltstone, dus
sh, qm, qm, red, blk
w/ siltstone, fm, mica w/
ls, xln, fm xln

vis 50, 8.7 wt, 4# LCM

3600

Siltstone, Compact
w/ qm shale

Shale, qm w/ siltstone

clock stopped -
replace clock -

50

ls, con, blk, med-fm xln
dus, blk, w/ ls brown

sh, qm, dull qm

sh, qm

Drly @ 31657 @ 7 AM
9/12/14

ls, con, tan, fm-med xln

1. 70% sh, qm, dk qm, mica
w/ 30% ls, con, tan, brn
fm-med-cvs xln w/ ls, qm
argil

vis 46, 8.7 wt, 4# LCM

LANSING
3684 (-1710)

ls, con, tan, qm, med-fm
xln, sli sh, sl. foss (shale)

3700

sh, qm, blk, argil ls in pt
ls, tan, qm, brn, dus
argil in pt

ls, blk, buff, fm xln, sli s
sl. chalky w/ ls, tan, qm, med
xln, foss, no flux, vis, slight odor

Slight odor, NSO

ls, qm, tan, med xln, foss in
pt w/ sh, qm, qm, argil

ls, lt qm, con, qm, fm-med
xln, dus

Add pre-mix

50

sh, blk (carb.)
ls, blk, fm xln, fm-fm xln
sli s, seat bright flux NSO

sl. slt odor, NSO

ls, brn, gry, med Xln,
ls, crm, buff, chalky

ls, gry, brn, sh, sdy, pr, ool,
couple pc's w/ sfo, ls, wh-crm
in Xln, sdy, pr, ool in couple pc's
sfo, sh odor

ls, crm, wh, in Xln, med
ls, crm, in Xln, dus

ls, crm, lt gry, fu-vth
Xln, sh, in pt, ptly chalky
ls, crm, gry, brn, foss
compact, NVB, tr sh, grn
circ 20" spl

ls, crm, wh, fu Xln w/ool ls,
ool, ool, even sdy in pt
sfo, few odor

ls, tan, lt gry, light, litho in
pt, sh, white, fresh

ls, dk, w/ sh, dk gry, gry
circ 20" spl

ls, tan, crm, fu Xln, foss,
ool w/ pr ool, pr interxln of
sdy, sfo in few pcs
circ 40" spl

ls, crm, fu Xln, dus w/ ptly
chalky, ls, crm, sh, foss, few
pc's w/ interxln of, sfo on break
ls, crm, tan, fu Xln, dus
w/ ls, gry, foss, hd

Shale, gry, gry-gry
ls, gry, tan, fu Xln, dus

ls, white, sdy, fu Xln,
few pc's w/ spt bright flwr, sfo
ls, crm, foss, fu ool w/ pr ool
few pc's sfo on break

ls, tan, crm, lt gry, fu Xln
mostly dus circ 20" spl -
sh, blk (trace amt) ls mostly du
couple pc's fu Xln, sdy, sfo
circ 40" spl

ls, lt gry, gry, blocky, dus
ls, crm, litho, chert, wh, gry
sh, lt green, tr blk

ls, lt gry, gry w/ crm litho
& chert, wh, gry fresh
ls, gry, lt gry, fu Xln, dus
litho & sh in pt

3800-05 spl, ls, tan
fu Xln, foss, ool w/ pr ool
sfo, insto, no odor

Andy's Mud ✓
Vis 61, 9.0 wt, 7.2 WL
chl 3000 PPM, 8# LCM

ls, tan, litho in pt
24 stand short trip
SHT 1°
Strap 1.09 short

Vis 47, 8.8 wt, 4# LCM

Dilg @ 3850 @ 7 AM
9/13/14

Adding Premix
DST No. 1, 3807-3827
30-60-30-60, SB, off
BOB in 4 min., 750' GIP,
Rec 30' VSOCM (1% Oil)
BHP 740-704
FP 14-15: 18-20
HP 1848-1836
BHT 109°
Diamond Testires (Jason M.)

Andy's Mud ✓
Vis 56, 9.0 wt, 8 WL
5000 chl, 5# LCM

Vis 55, 8.9 wt, 6# LCM

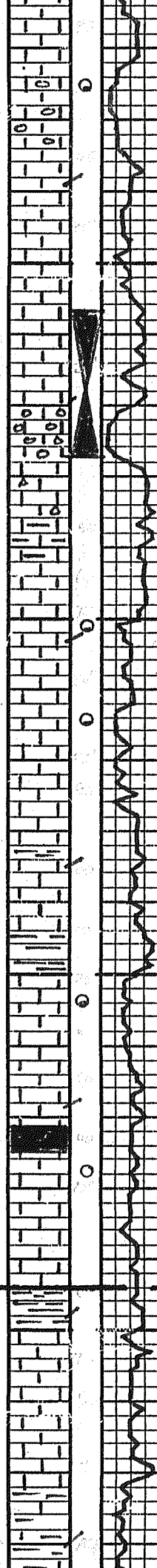
3800

50

3900

50

BRC
3944 (1-1970)



Congl, Shales, blk, red, gray
Siltstone, ls, tan, brown

4000

Sh, gray, green
ls blk, light gray, tan-med
Xhr, cherty
ls, conc, du Xhr, ool w/ pr
ooce, pr vis, fr resd. str

MISSISSIPPIAN
4038(-2064)

Log top

Sh, green, blk, gray
ls, gray, dus, str

Sh, gray, green-red
ls, gray-green, blocky

50

Chert, wh, orange, fresh
Sharp ls, litho
70-80 Spi, chert, weath
H gray, pp, edge fluor, nsto
ls, gray, dus, blocky
Sh, gray, green, dull gray

Sh, purple, gray (green,
Chert A.K.

Sh, gray, red, gray-red, s
Congl. Vari color Sh, s

4100

Sh, gray, gray
ls, tan, brown, dus
Chert, tan, wh fresh

vis 50, 9.2 uH, 6# lcu

VIOLA
4120(-2146)

Sh, green, red-gray, gray
ls, conc, med Xhr, dus
Chert, wh, orange, fresh

Chert, conc, dolomitic in
pt, weath. frigiditic in pt
Scat str, s to on break
w/ dolo, white du Xhr, ns
dolo, conc, du Xhr, gd inter Xhr
even Sat, sfo, gd odor

50

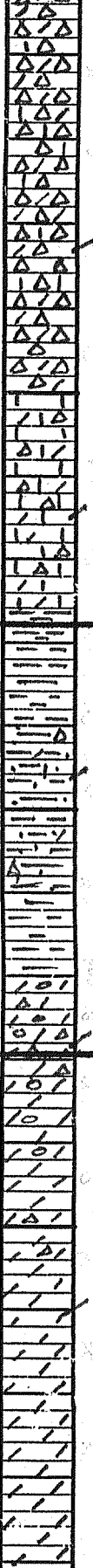
Chert, white, fresh w/ Scat
dolo, du Xhr, less of show
gd odor

Chert, wh, fresh, dolo, compact
less of, less show, ls, dus

Chert & dolo AA w/ 15%
bright Spotty fluor, nsto

4200

Chert wh, fresh, dolo, conc
H gray, du Xhr, fr, bright
fluor, ls, conc, dus



SIMPSON SHALE
4278 (-2304)

4300

ARBUCKLE
4330 (-2356)

50

Chert, wh, fresh
dolo, fm xln, bright fluv
becoming less
ls, con, dus
Chert, smoky gray, white
fresh, bright fluv along frac.

Mostly chert, wh, smoky gray
frac, great dolo

Chert, wh, smoky gray, fresh
dolo/ls, lt gray, con, pr

dolo ls, con, lt gray, fm xln
ls, phy foss, sti chalky

ls, tan, brn, sdr in pt, phy
foss, chert, wh, gray fresh
sh, blk, green, red
inc in sh, green, wax

sh, gray, qm, tr sst, gray
con, fm med gray, compact
w/ dolo sst, light, chert wh, gray
A-A, sti inc sst

tr aut blk shale

dolo, lt gray, con, fm xln
dus, chert wh, fresh
dolo, tan, con, fm xln, suc
pr inter xln, chert, fresh
ls, dus, dolo, sti not w/ ore
dolo, gray, fm xln, gd inter xln
sh, pluggy, in pt

Chert, wh, fresh
dolo, con, lt gray, fm xln
suc in pt, pr - tr inter xln
sti not w/ ore

dolo, con, lt gray, fm xln
suc in pt, scat pluggy
pr, pr - tr inter xln

Vis 51, 9.1 wt, 7# LCM

Vis 49, 9.3 wt, 7# LCM

Drlg @ 4328 @ 7AM
9/14/14

Andy's Mud ✓
Vis 53, 9.5 wt, 8 W.L.
chl 5000ppm, 5# LCM

Reached TD @ 10 AM
9/14/14
20 stand Short trip
Circ 90 min
Hole lost 20 bbl mud
while Circ -
have been losing Circ

In Minutes	DRILLING TIME	DEPTH	SAMPLE DESCRIPTION	REMARKS
		50		PHU-001 at approx 1300'
				SHT @ 4390', 1°



Pioneer Energy Services

Dual Compensated Porosity Log

API No. 15-185-23,903-00-00

Company **Knighton Oil Company Inc.**
 Well **Kachelman No. 4**
 Field **Albano West**
 County **Stafford** State **Kansas**

Location **330' FSL & 1350' FEL**

Sec: **11** Twp: **25S** Rge: **14W**

Other Services **DIL**

Permanent Datum **Ground Level** Elevation **1962**
 Log Measured From **Kelly Bushing** 12 Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

Elevation **K.B. 1974**
D.F. 1962
G.L. 1962

Date	9/14/2014	
Run Number	One	
Type Log	CNL / CDL	
Depth Driller	4390	
Depth Logger	4390	
Bottom Logged Interval	4369	
Top Logged Interval	3390	
Type Fluid In Hole	Chemical	
Salinity, PPM CL	5000	
Density	9.0	
Level	Full	
Max. Rec. Temp. F	120	
Operating Rig Time	2.5 Hours	
Equipment -- Location	108 Hays	
Recorded By	D. Fischer	
Witnessed By	Dave Montague	

Borehole Record		Casing Record					
Run No	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	271	8.625	23#	00	271
Two	7.875	271					

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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

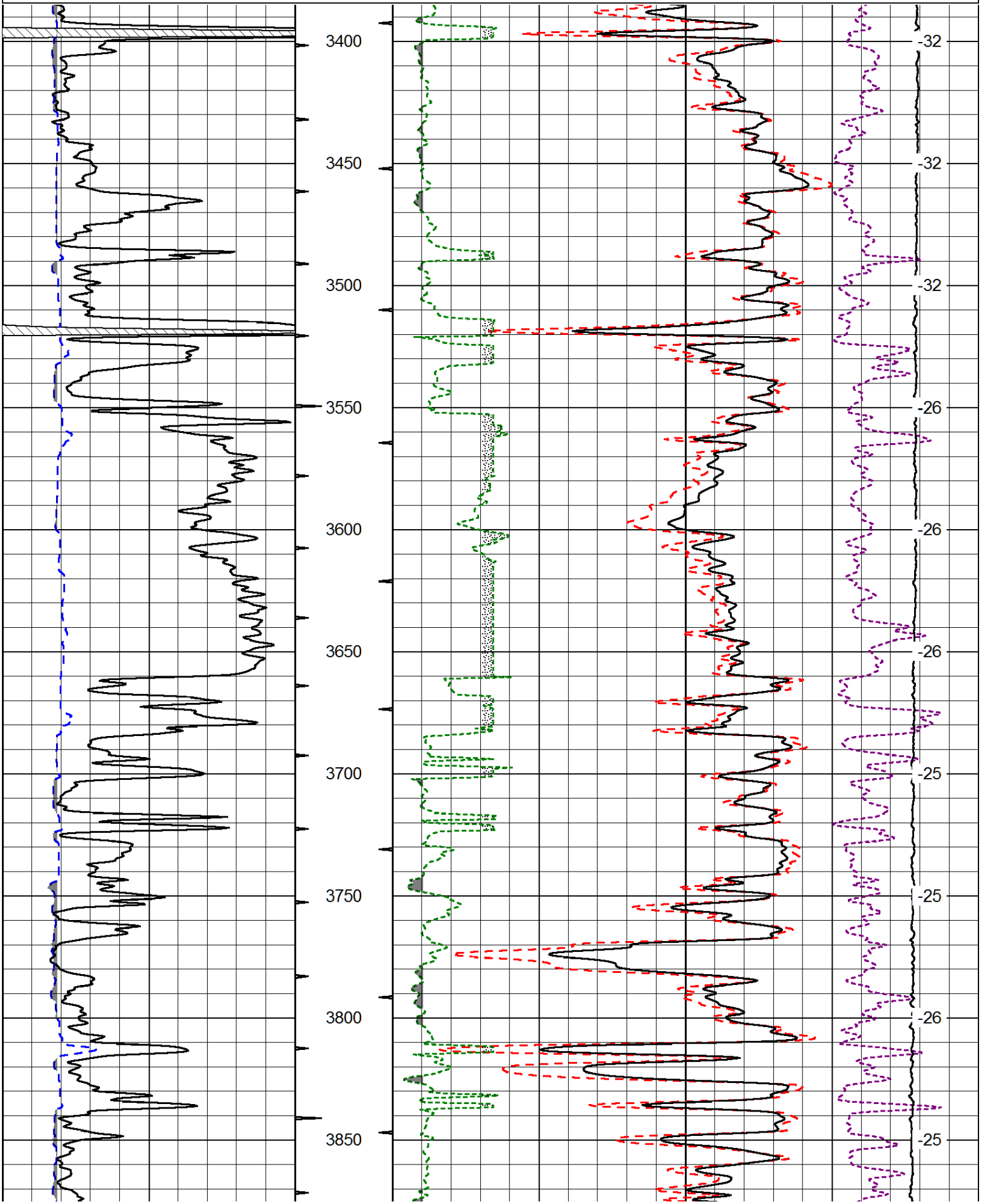
Thank you for using Log-Tech, Inc.
 (785) 625-3858

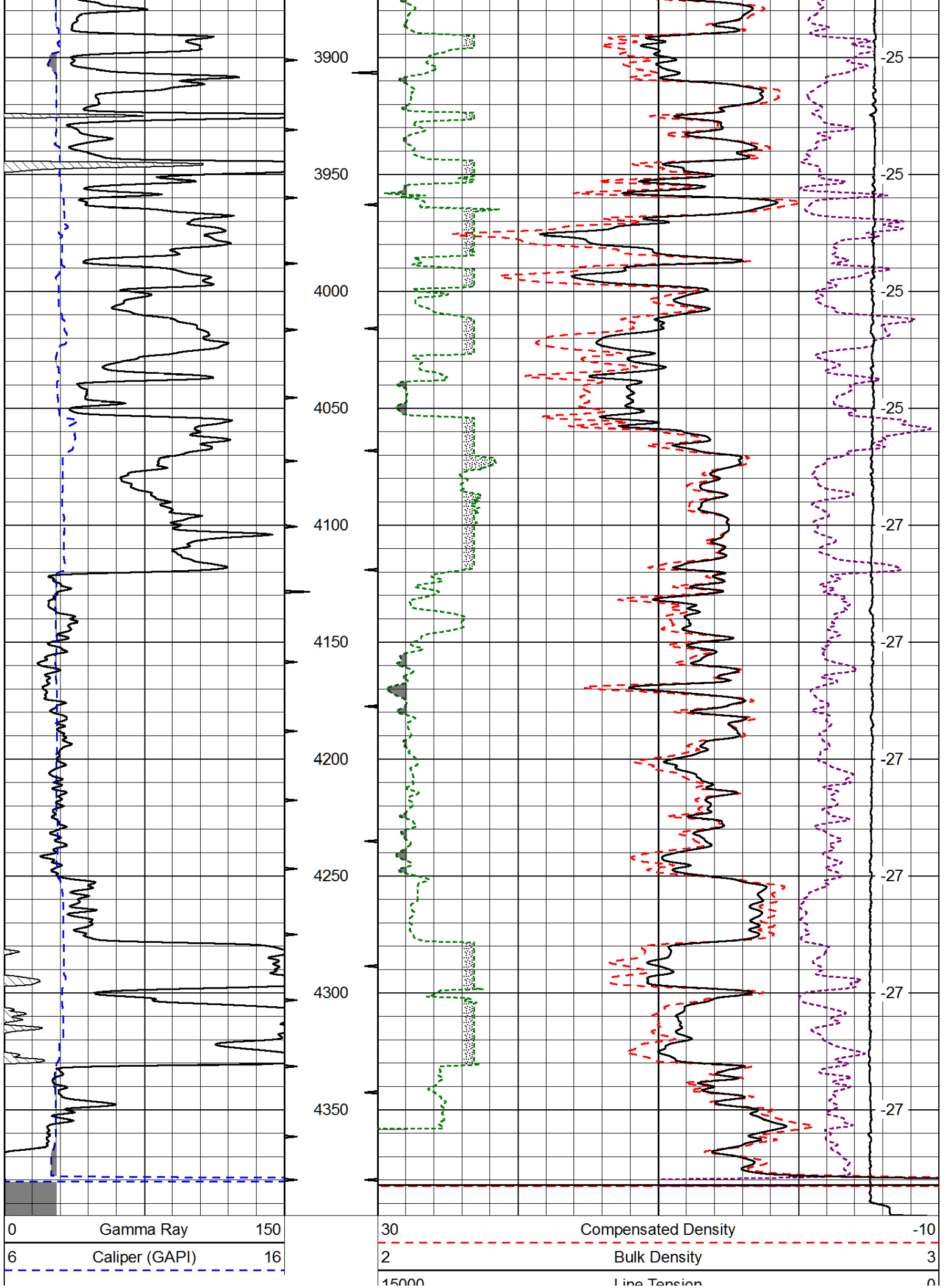
Hwy. 281 & Hwy. 50 Junction, 5 South to 50th Rd., 9.5 West, North Into.

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 Dataset Pathname: DIL/knigstck
 Presentation Format: cdl
 Dataset Creation: Sun Sep 14 17:45:36 2014
 Charted by: Depth in Feet scaled 1:600

0	Gamma Ray	150
6	Caliper (GAPI)	16

30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
			Correction
			0.25
LSPD			

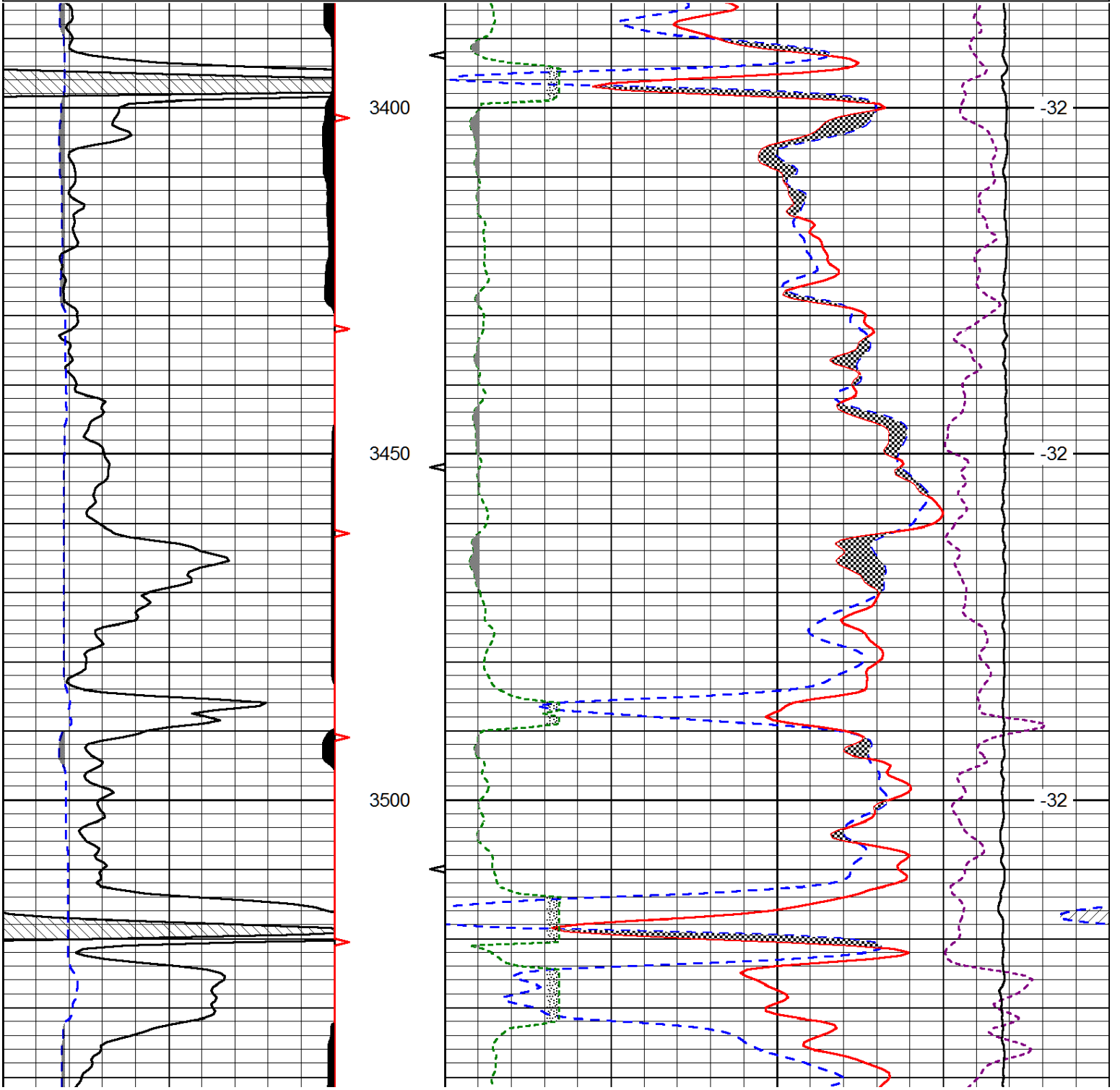


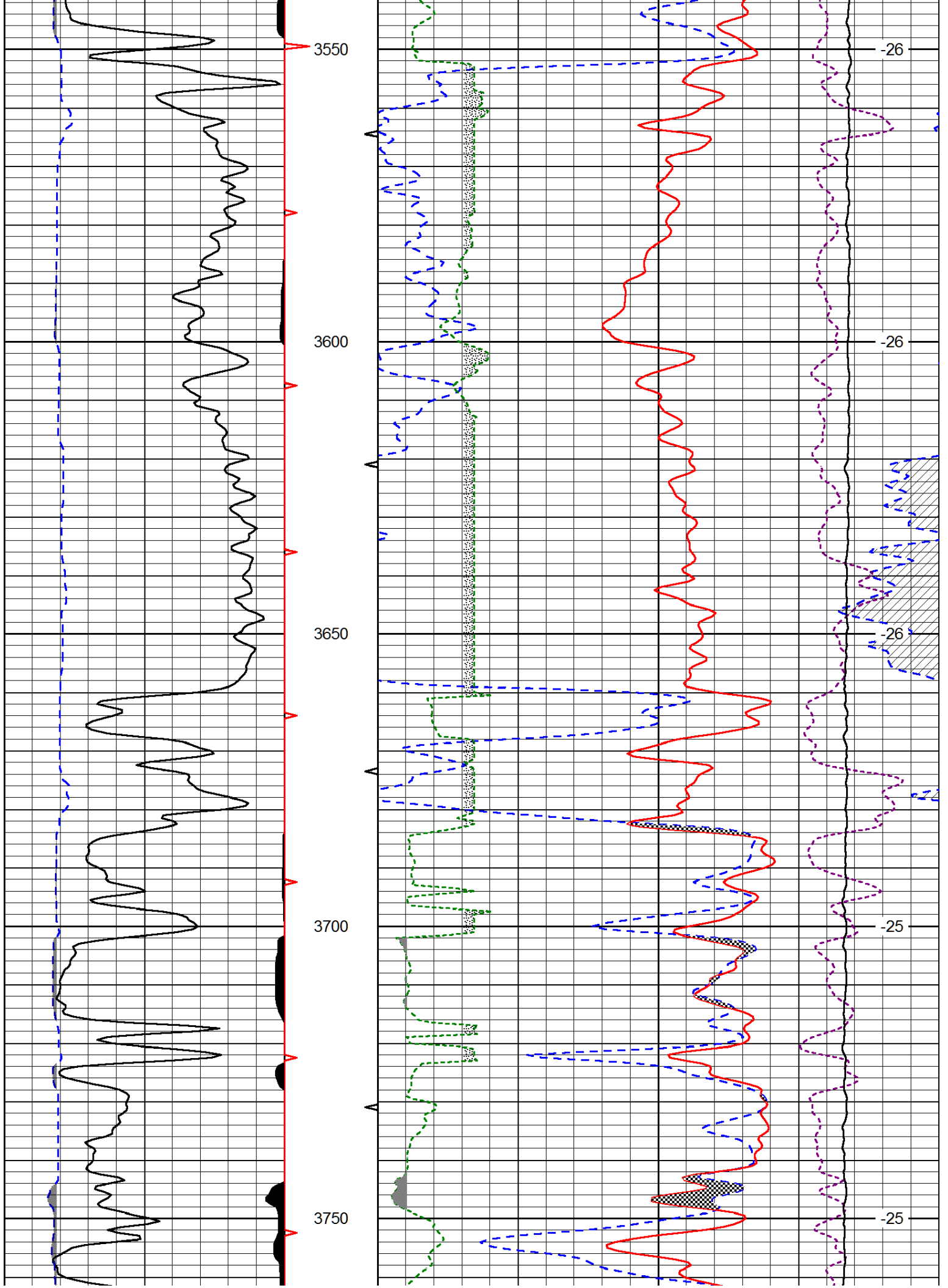


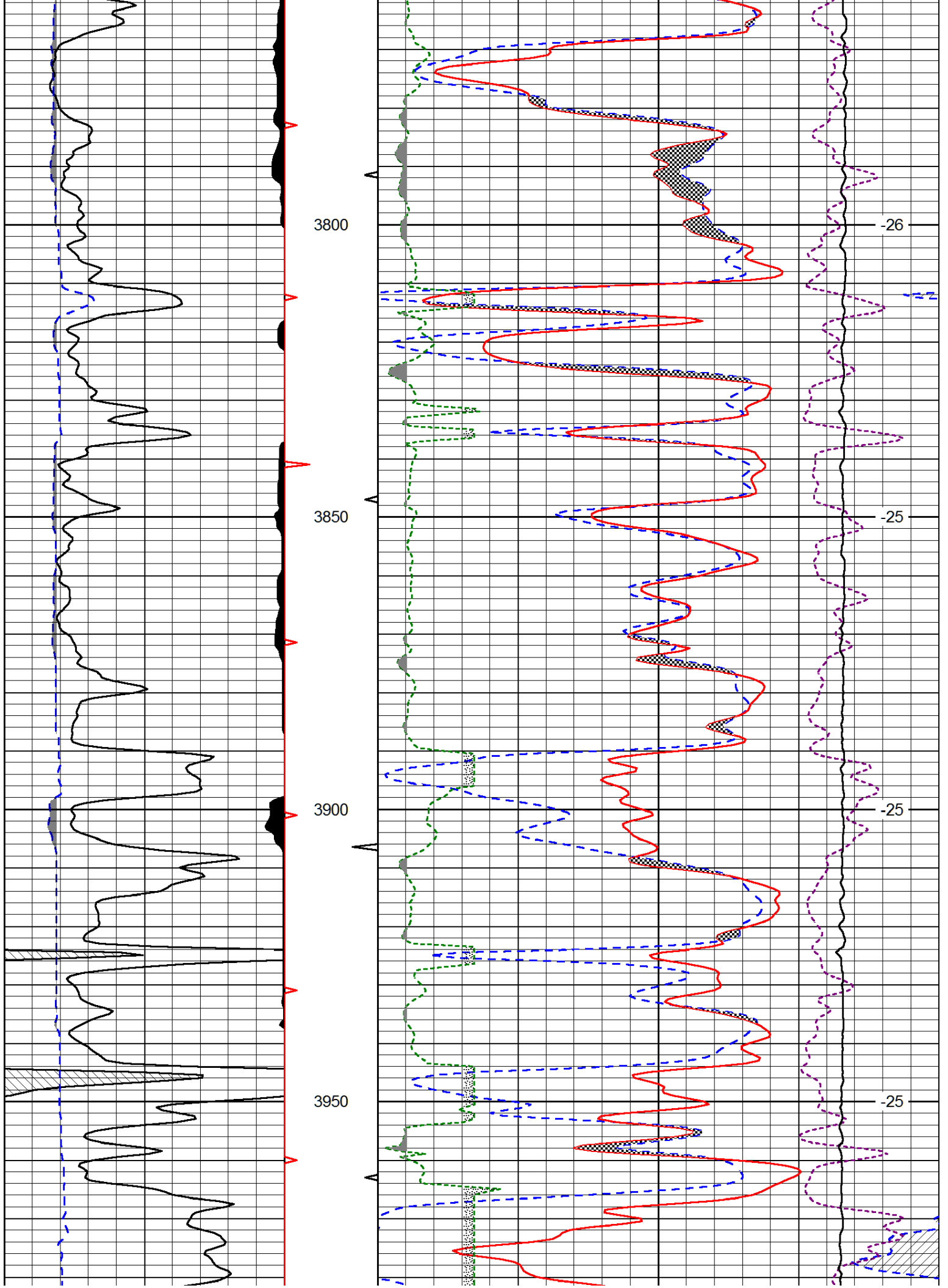
15000		Line Tension	0
2.625	DGA	3.425	-0.25
			Correction
			0.25
			LSPD

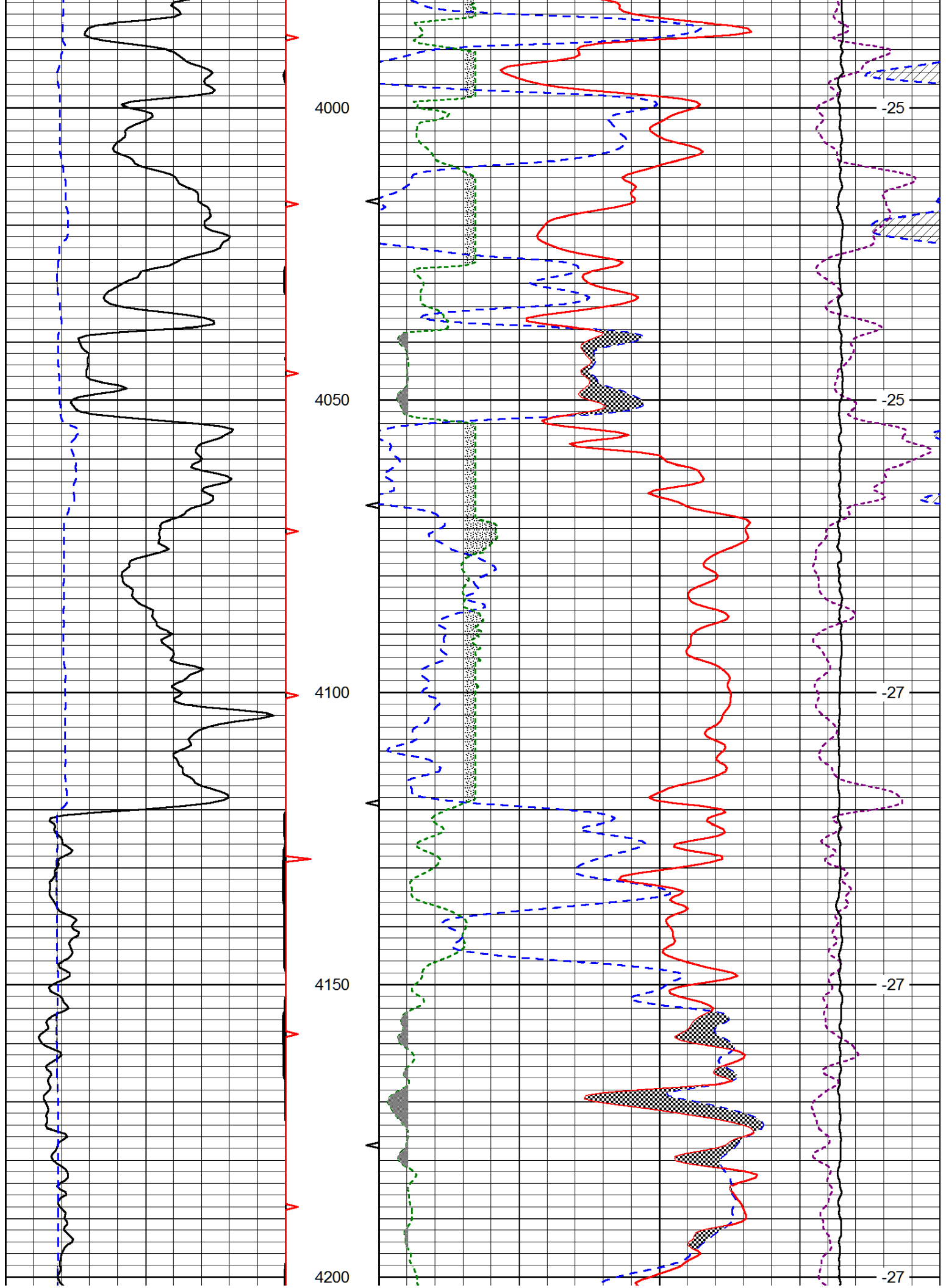
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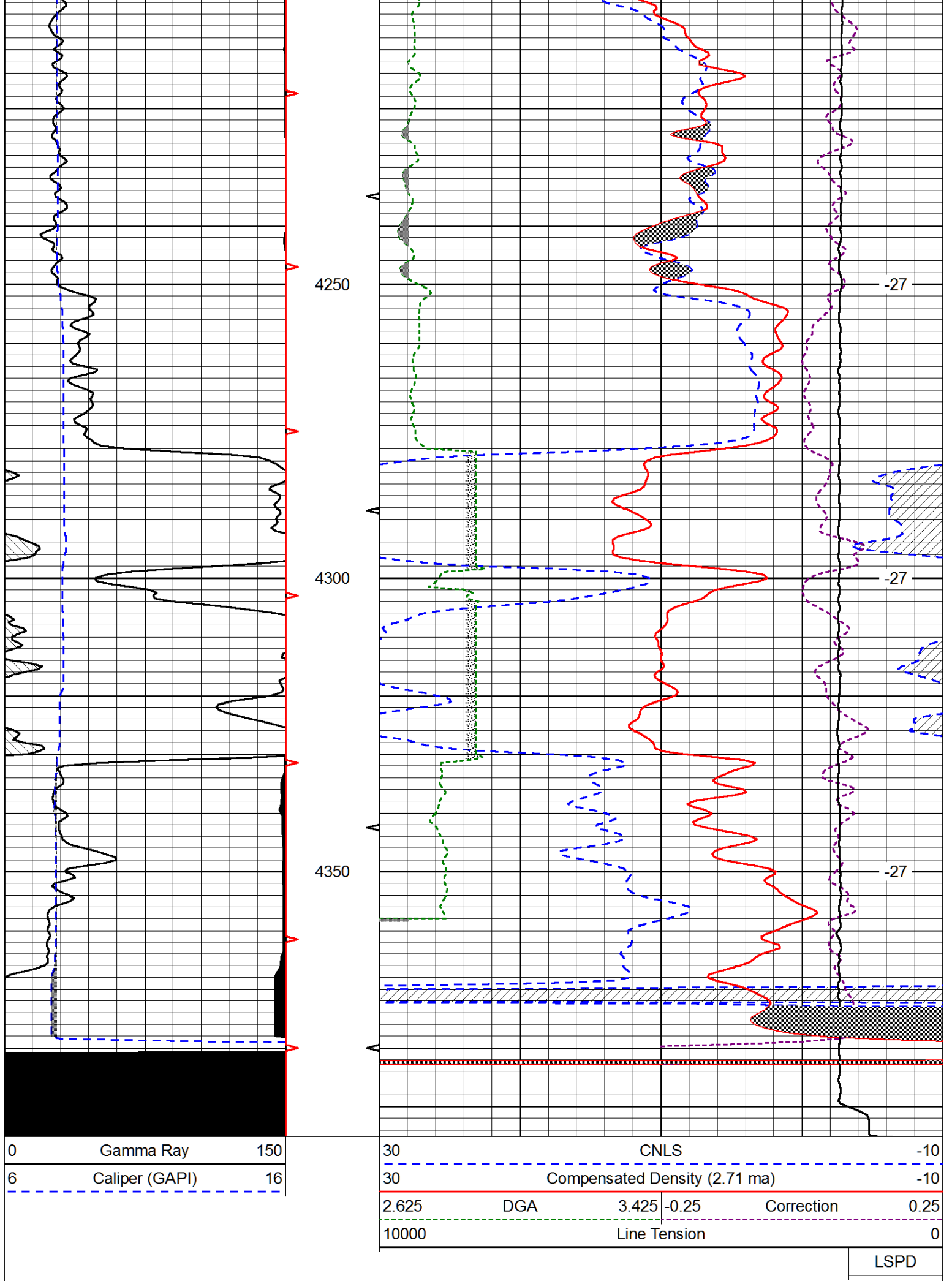
0	Gamma Ray	150	30	CNLS	-10
6	Caliper (GAPI)	16	30	Compensated Density (2.71 ma)	-10
			2.625	DGA	3.425
			-0.25	Correction	0.25
			10000	Line Tension	0
					LSPD













Pioneer Energy Services

Dual Induction Log

API No.	15-185-23,903-00-00	
Company	Knighton Oil Company Inc.	
Well	Kachelman No. 4	
Field	Albano West	
County	Stafford	State
		Kansas
Location	330' FSL & 1350' FEL	
Sec: 11	Twp: 25s	Rge: 14w
Permanent Datum	Ground Level	Elevation 1962
Log Measured From	Kelly Bushing	12 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	
		Other Services CNL/CDL
		Elevation K.B. 1974 D.F. 1962 G.L. 1962

Date	9/14/2014
Run Number	One
Depth Driller	4390
Depth Logger	4390
Bottom Logged Interval	4389
Top Log Interval	250
Casing Driller	8.625 @ 271
Casing Logger	265
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	5000
Density / Viscosity	9.0 56
pH / Fluid Loss	10.0 8.0
Source of Sample	Flowline
Rm @ Meas. Temp	.65 @ 71
Rmf @ Meas. Temp	.49 @ 71
Rmc @ Meas. Temp	.88 @ 71
Source of Rmf / Rmc	Charts
Rm @ BHT	.38 @ 120
Operating Rig Time	2.5 Hours
Max Rec. Temp. F	120
Equipment Number	108
Location	Hays
Recorded By	D. Fischer
Witnessed By	Dave Montague

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Comments

Thank you for using Log-Tech, Inc.
(785) 625-3858

Hwy. 281 & Hwy. 50 Junction, 5 South to 50th Rd., 9.5 West, North Into.

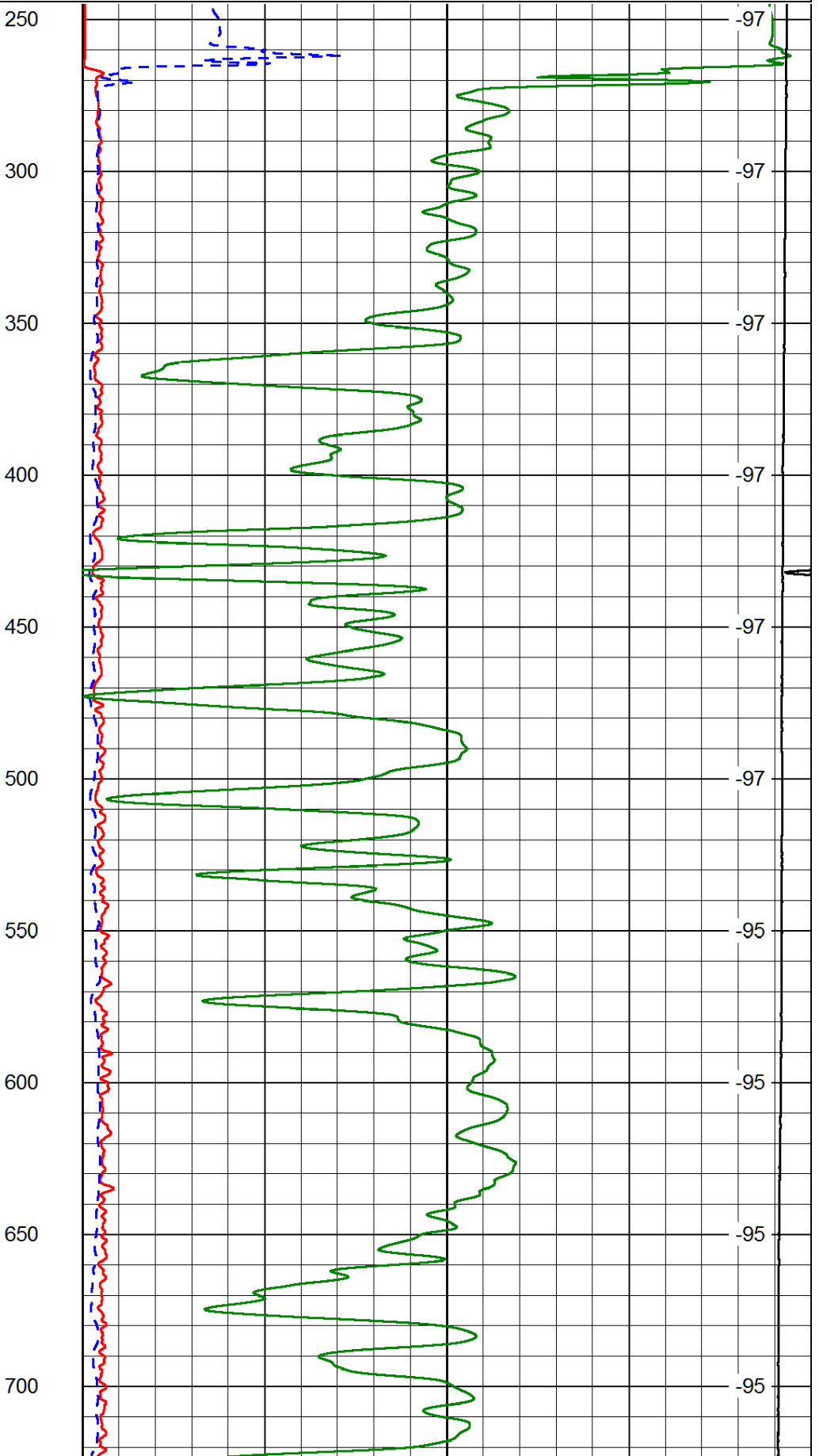
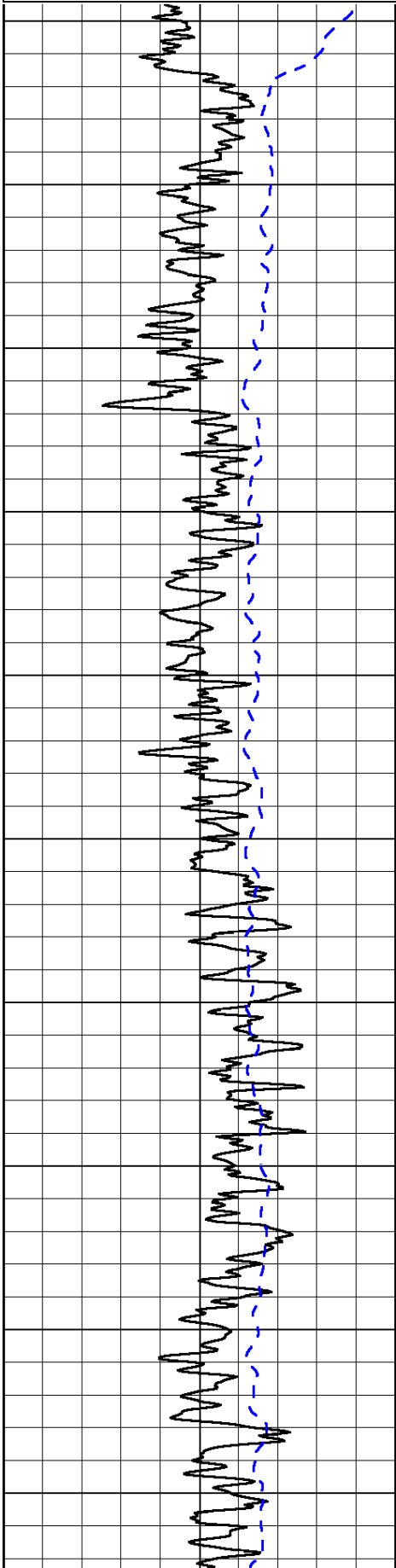
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 Charted by: Depth in Feet scaled 1:600

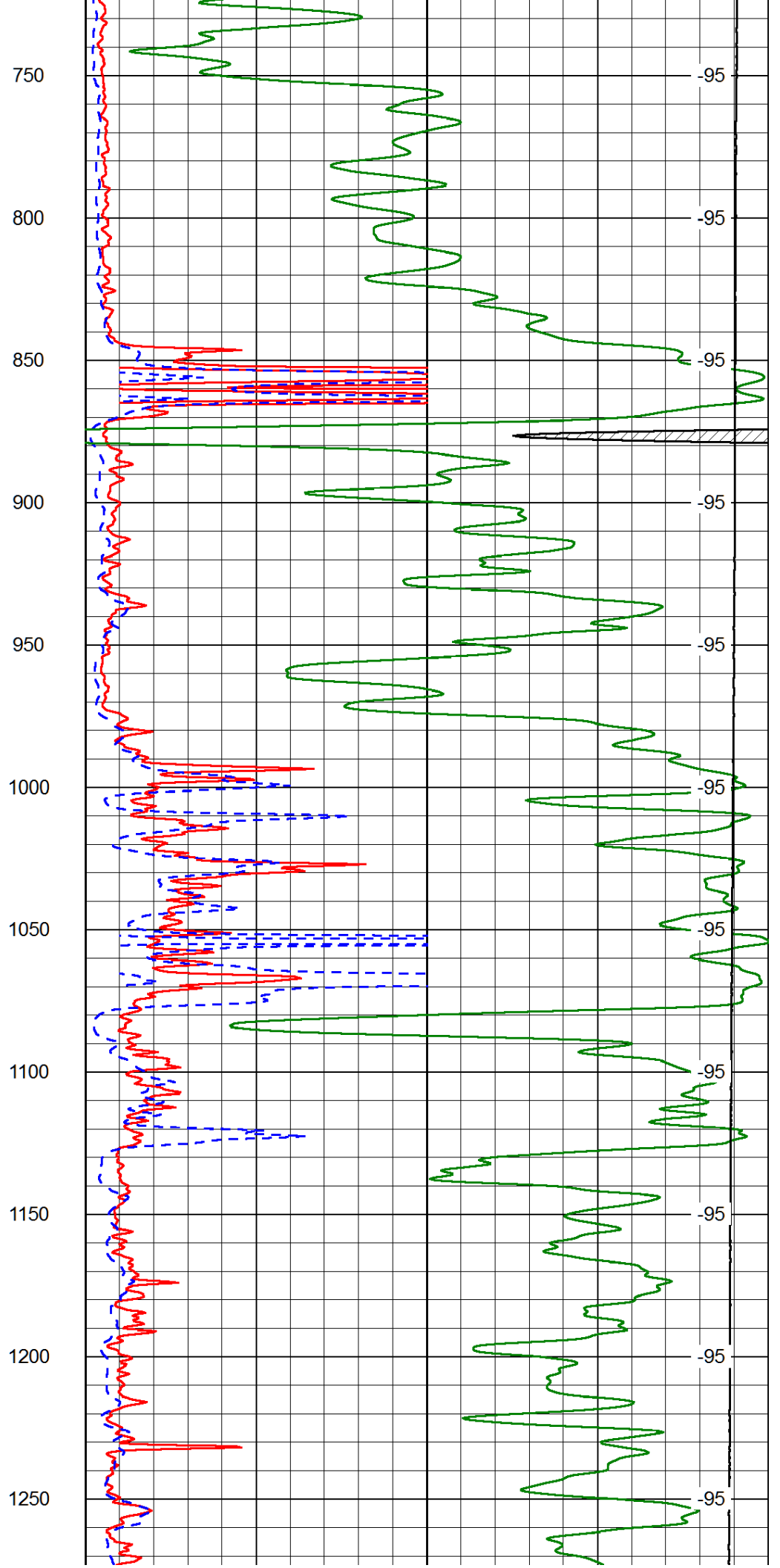
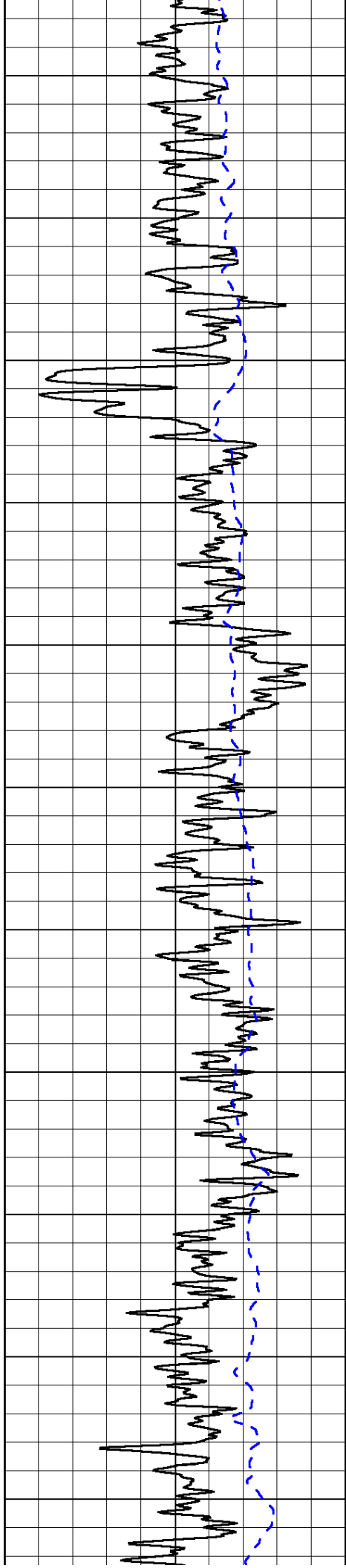
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-200	SP (mV)	0

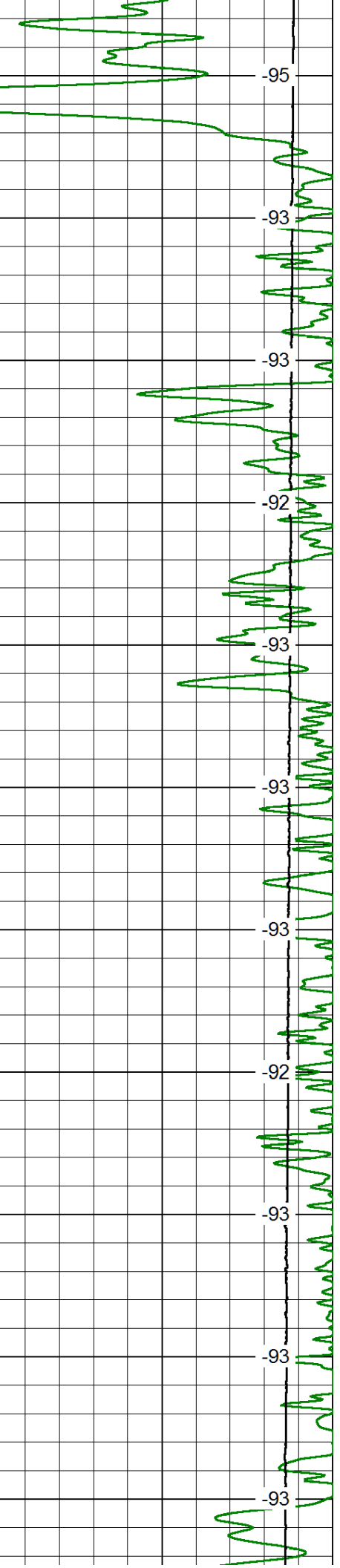
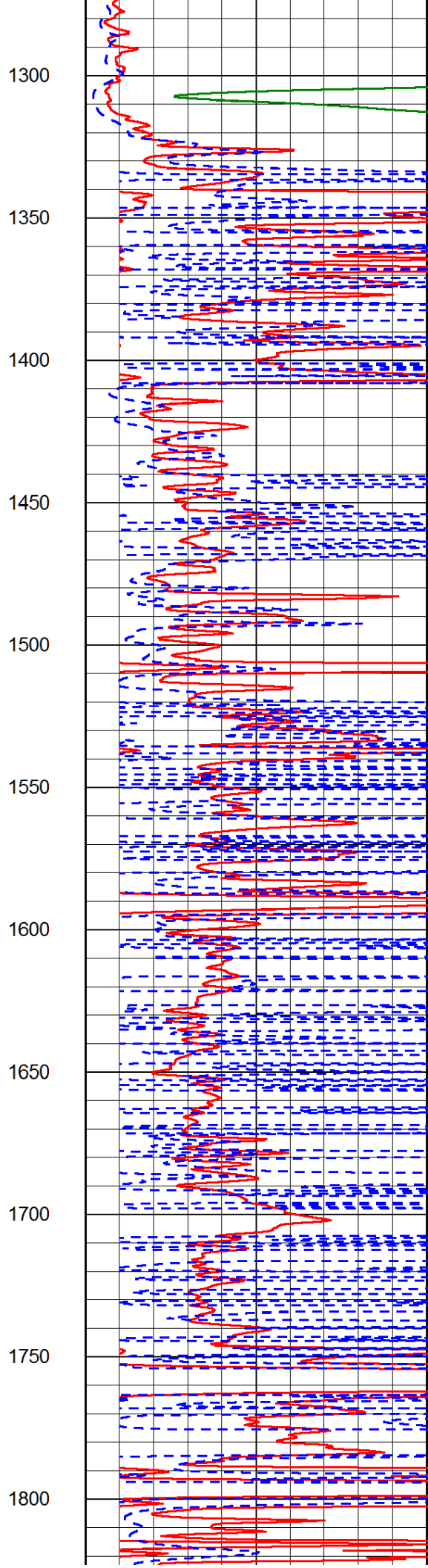
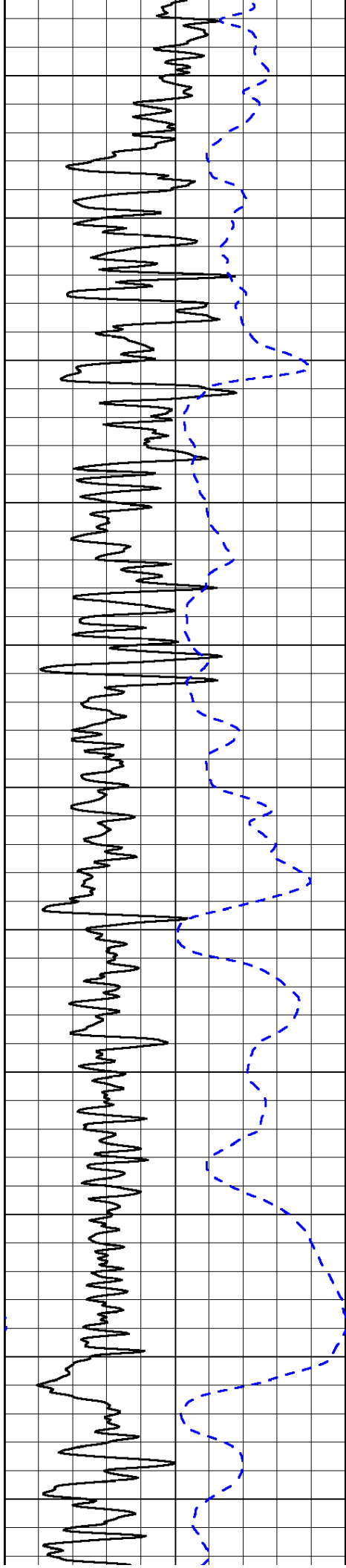
0	Shallow Resistivity	50
0	Deep Resistivity	50
1000	Conductivity	0
15000	Line Tension	0

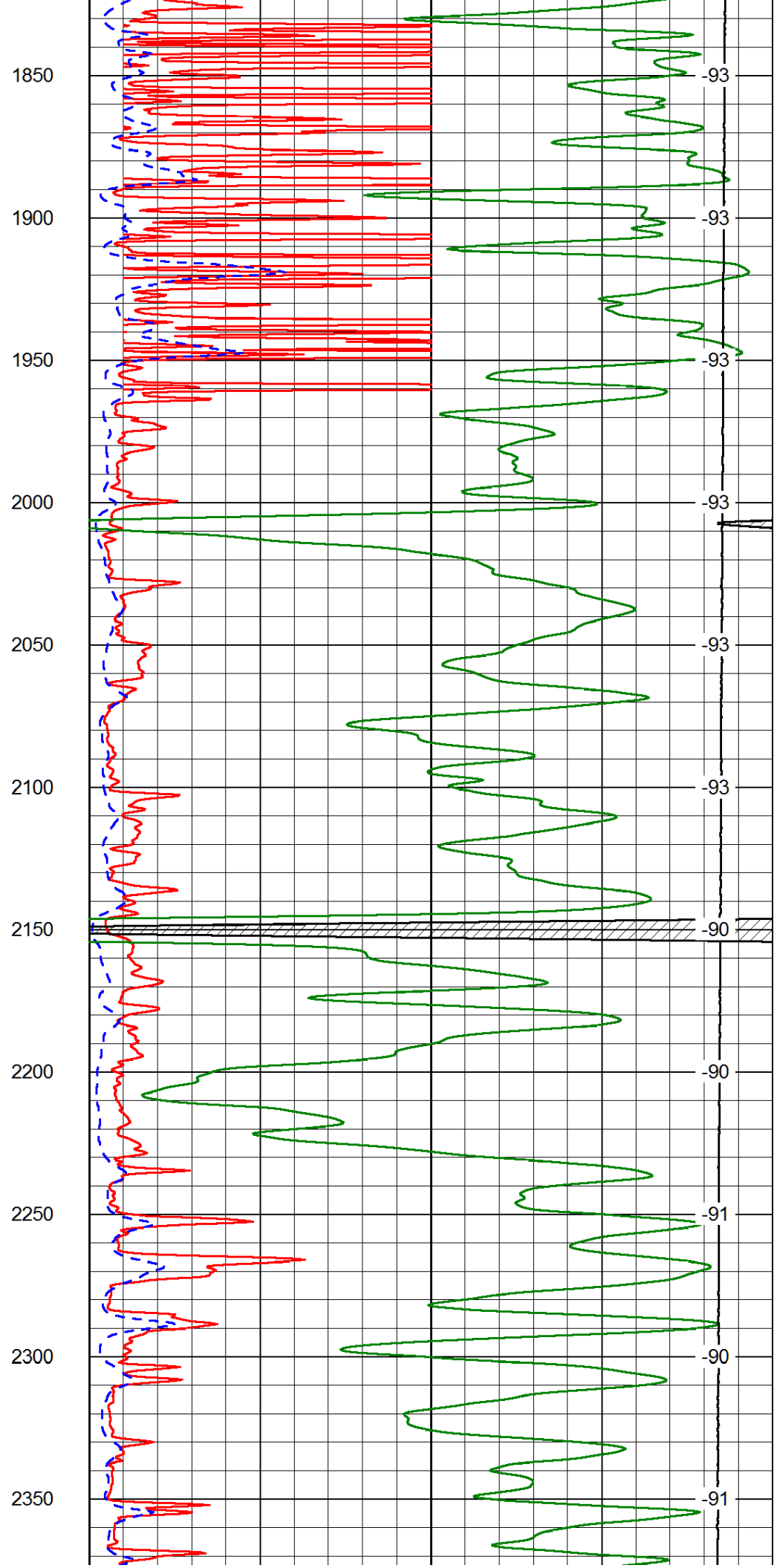
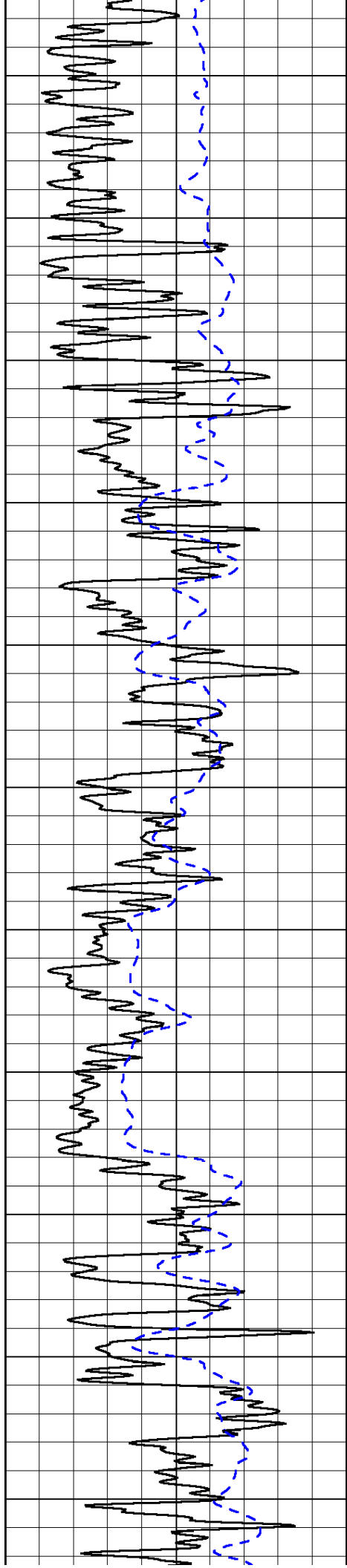
LSPD

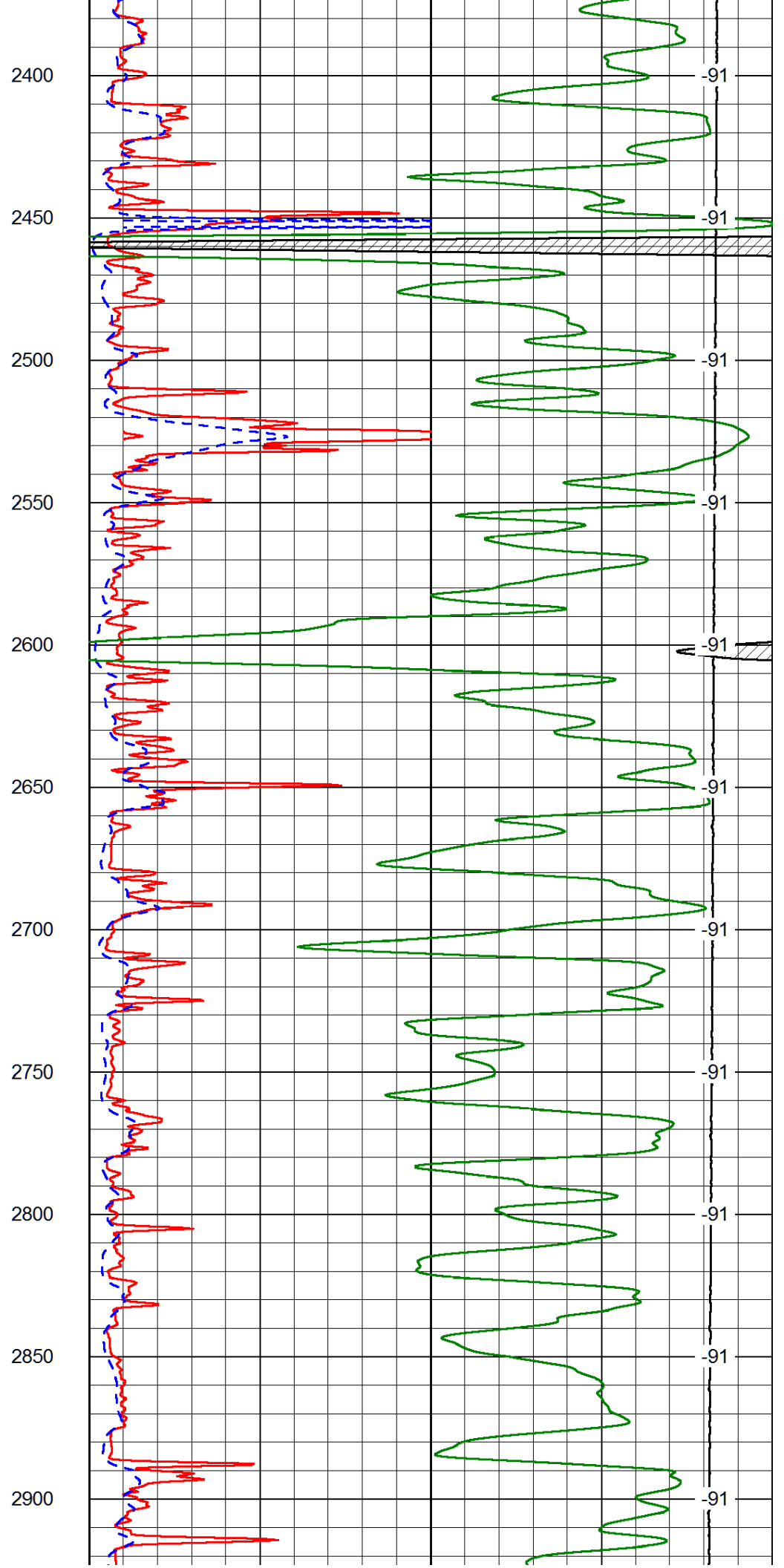
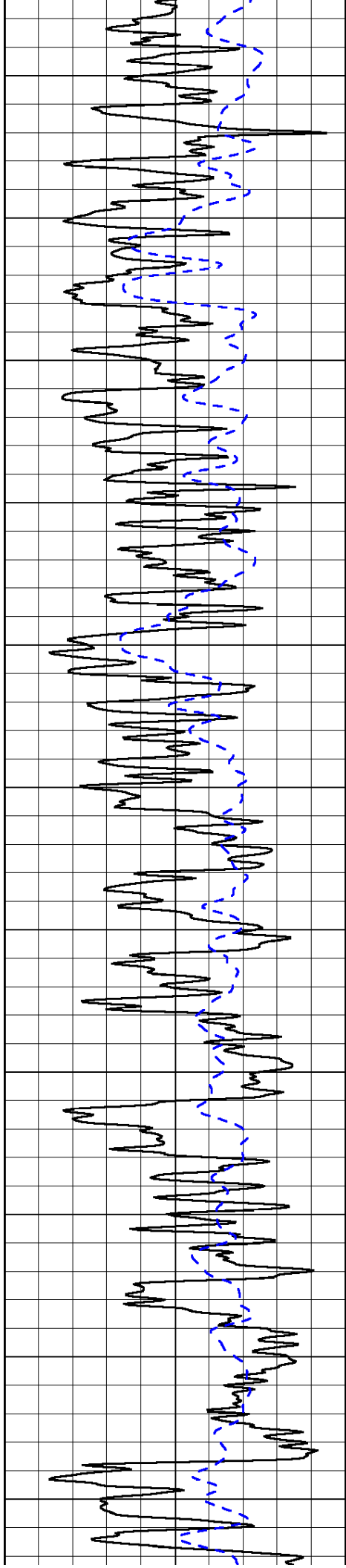
50	Shallow Resistivity	500
50	Deep Resistivity	500

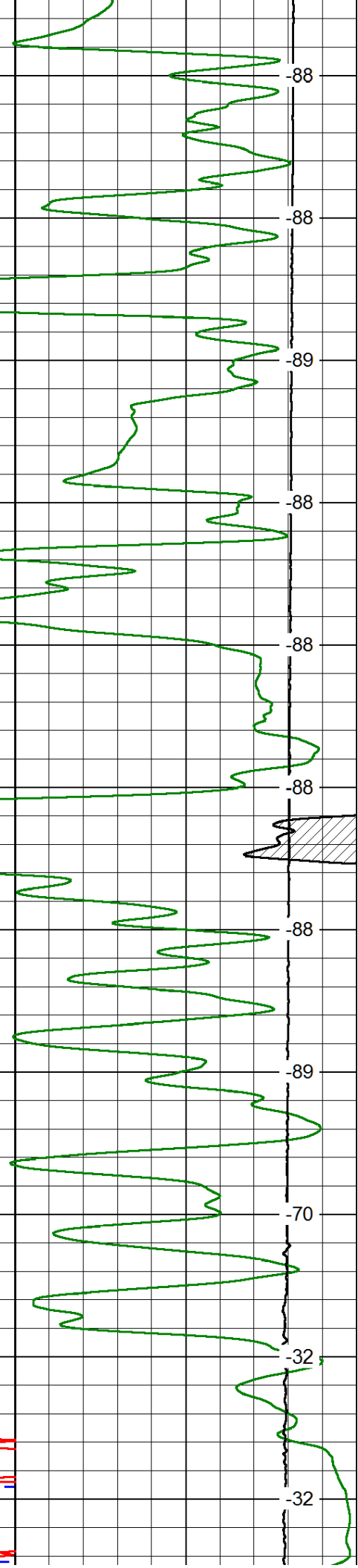
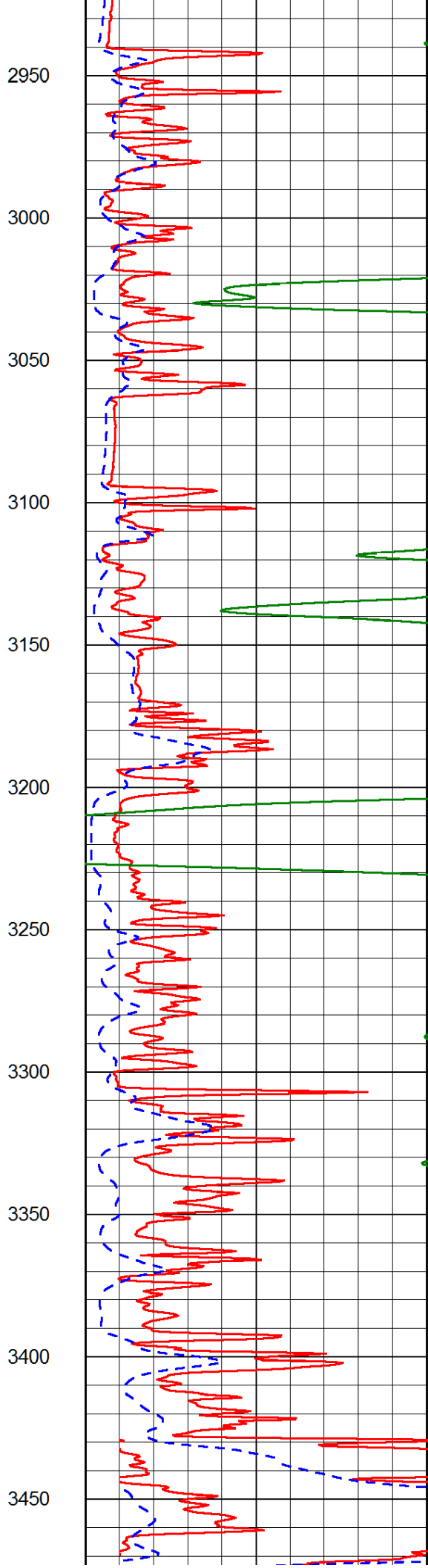
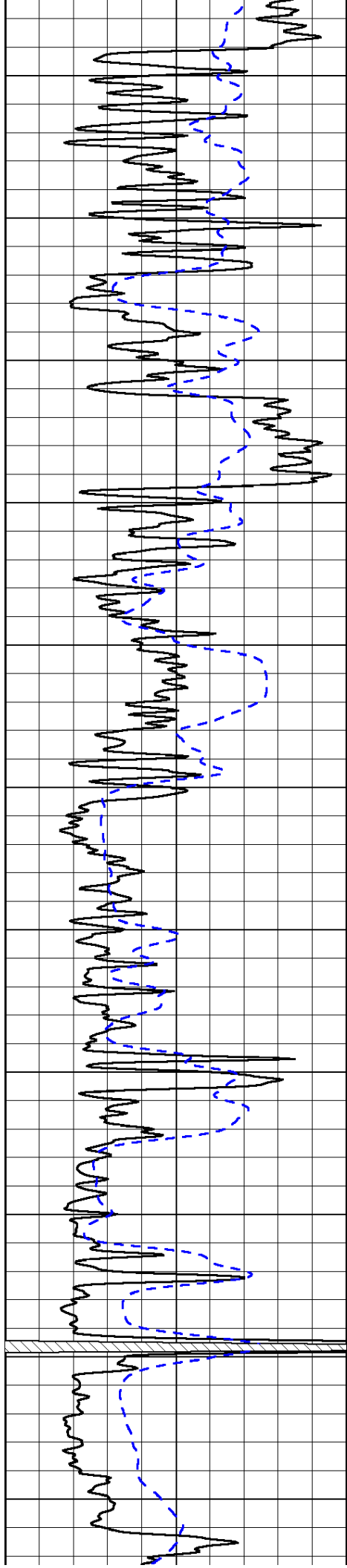


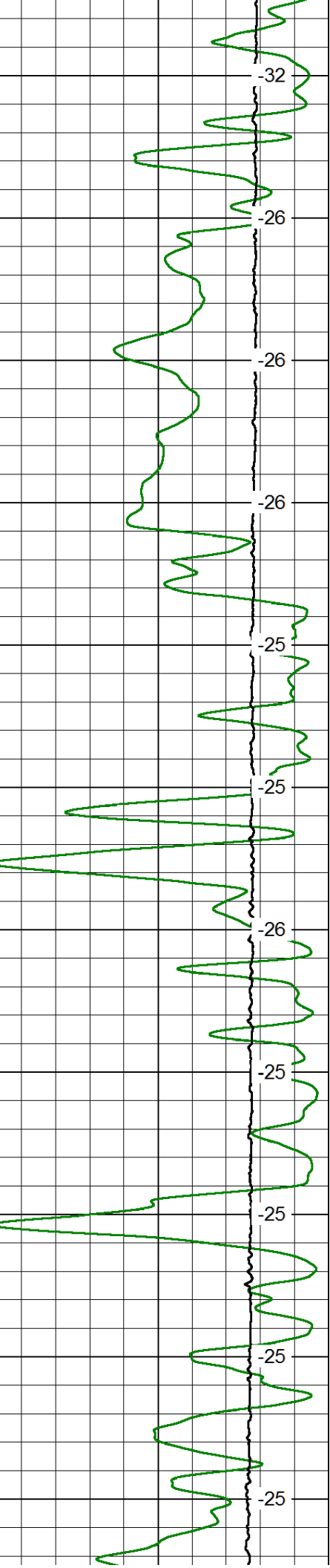
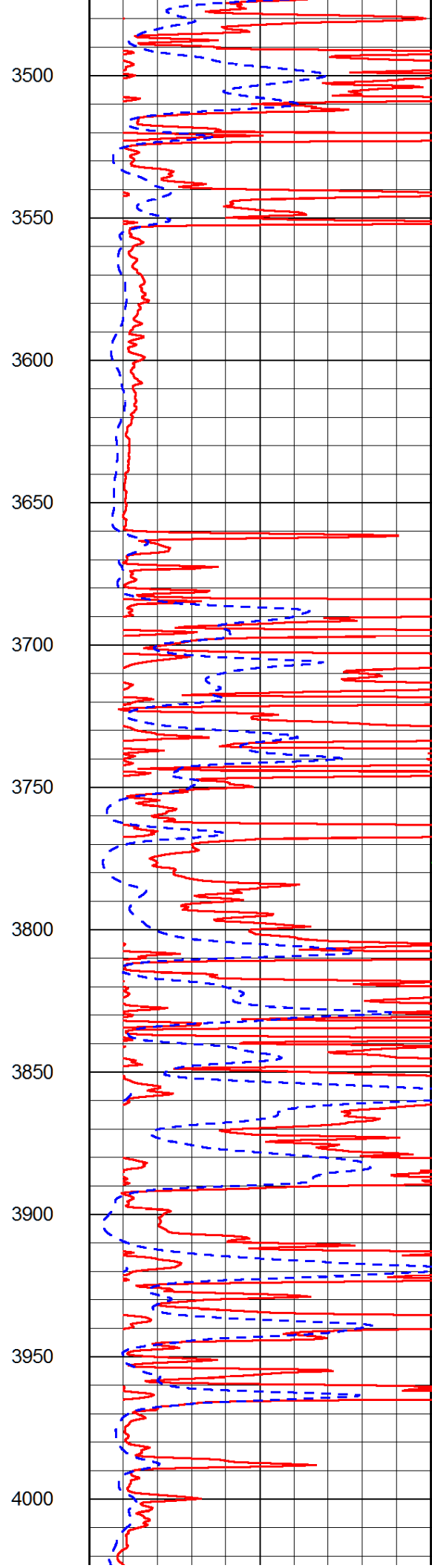
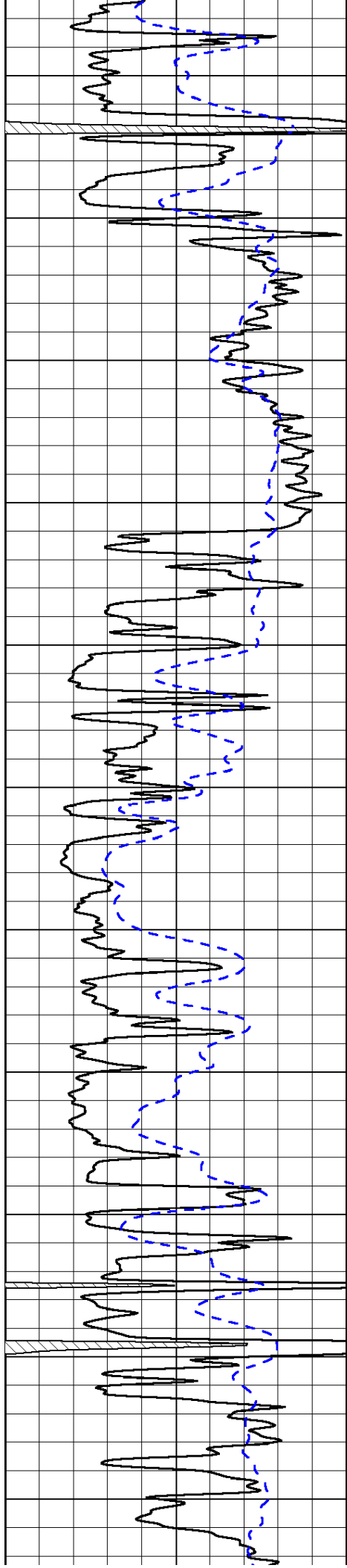


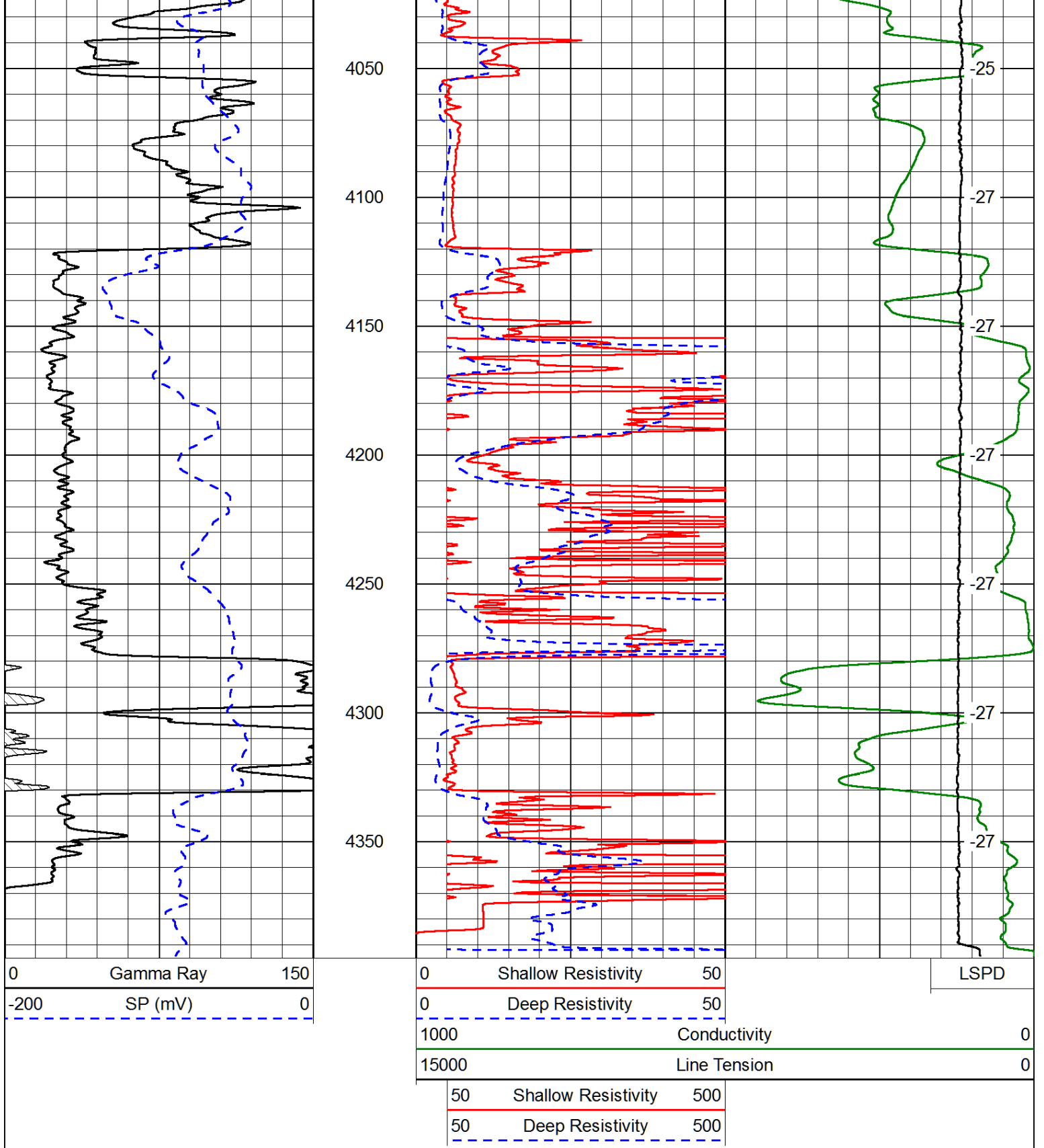






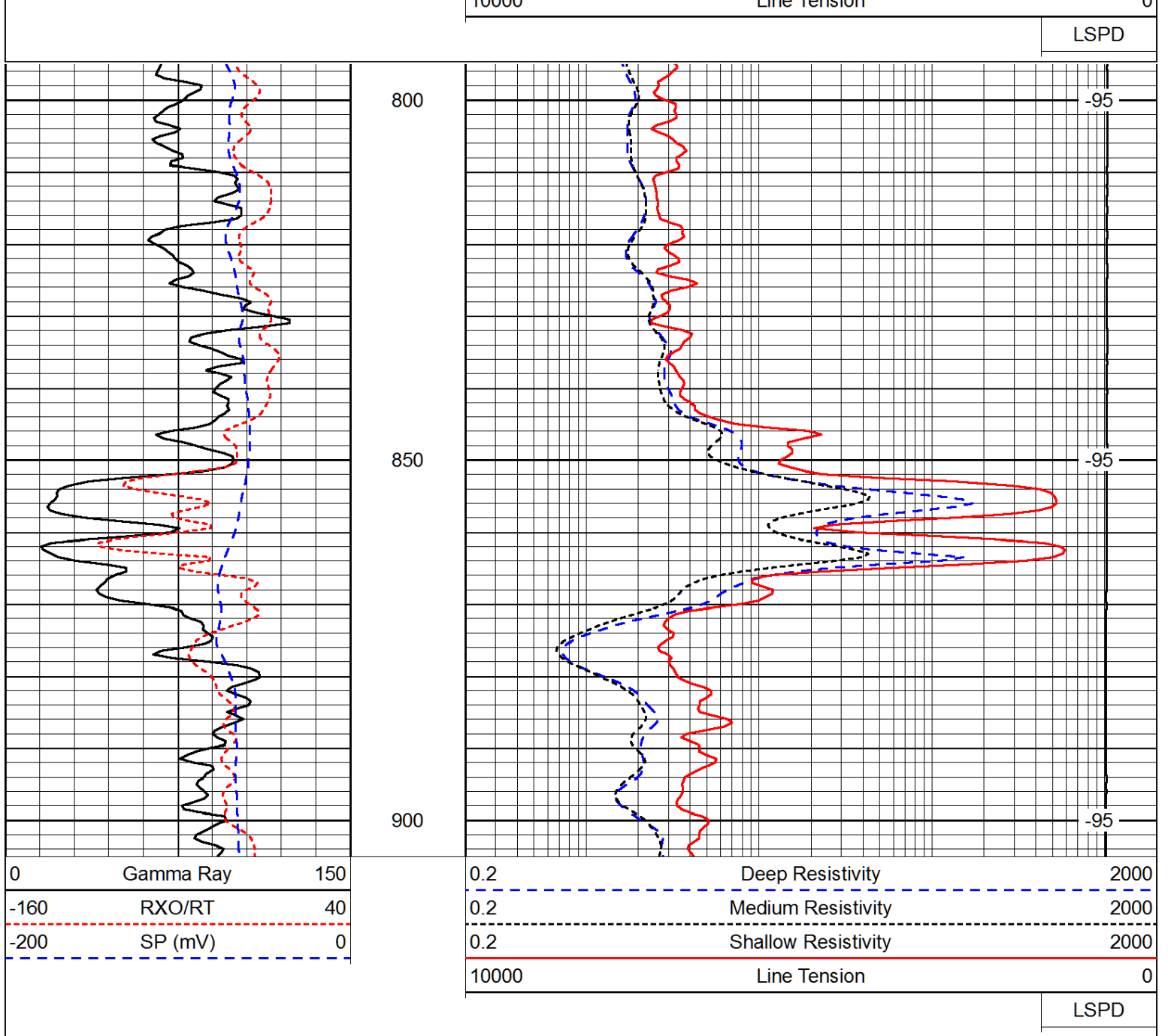




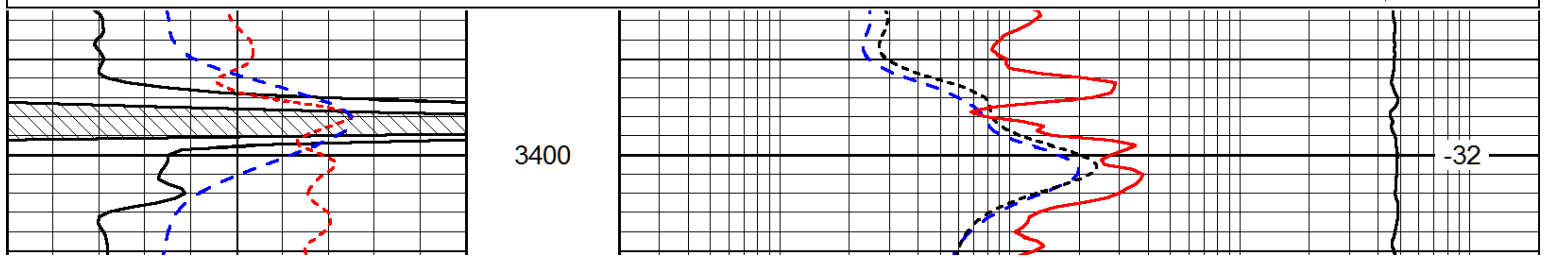
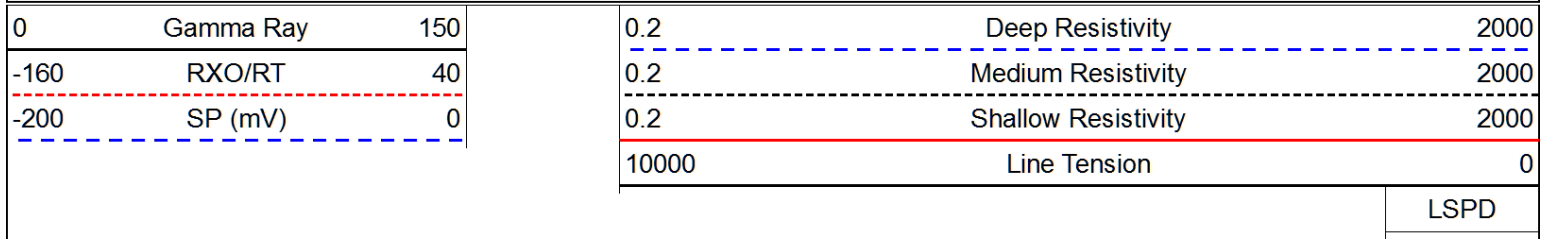


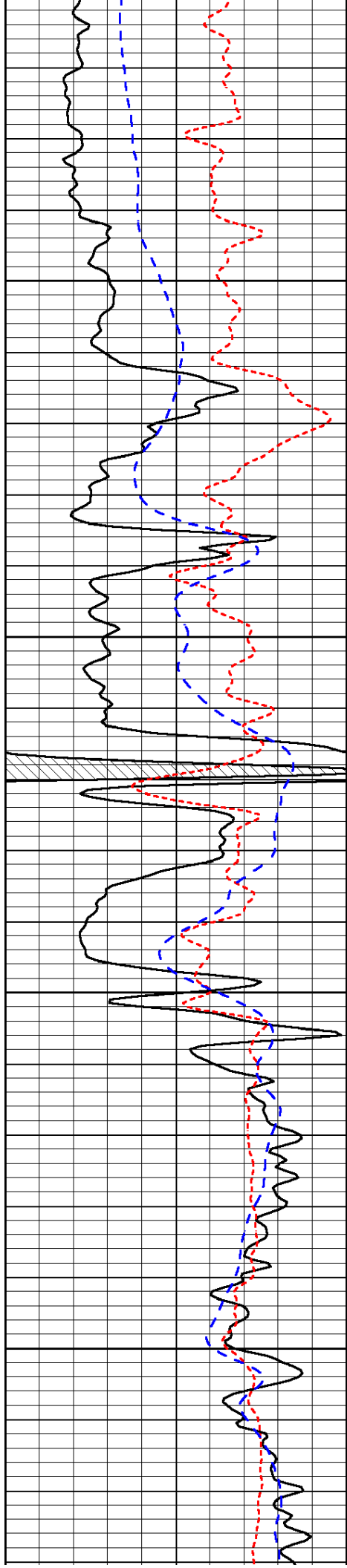
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 Dataset Creation: Sun Sep 14 17:45:36 2014
 Charted by: Depth in Feet scaled 1:240





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 Presentation Format: dil
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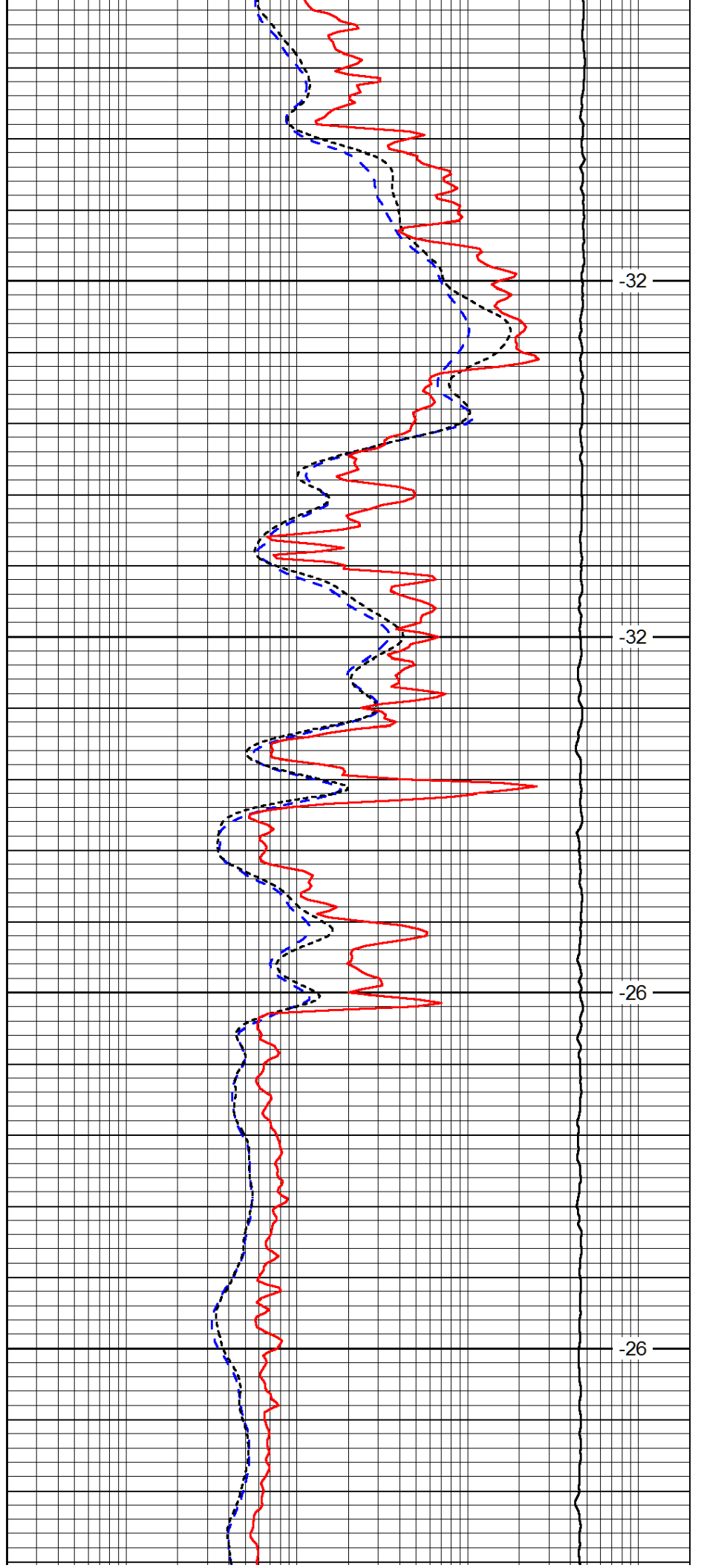


3450

3500

3550

3600

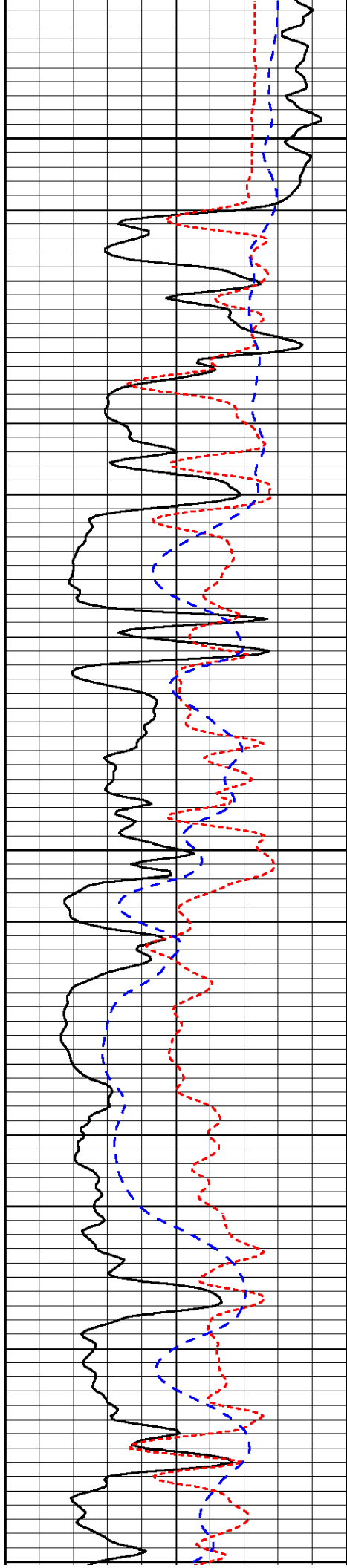


-32

-32

-26

-26



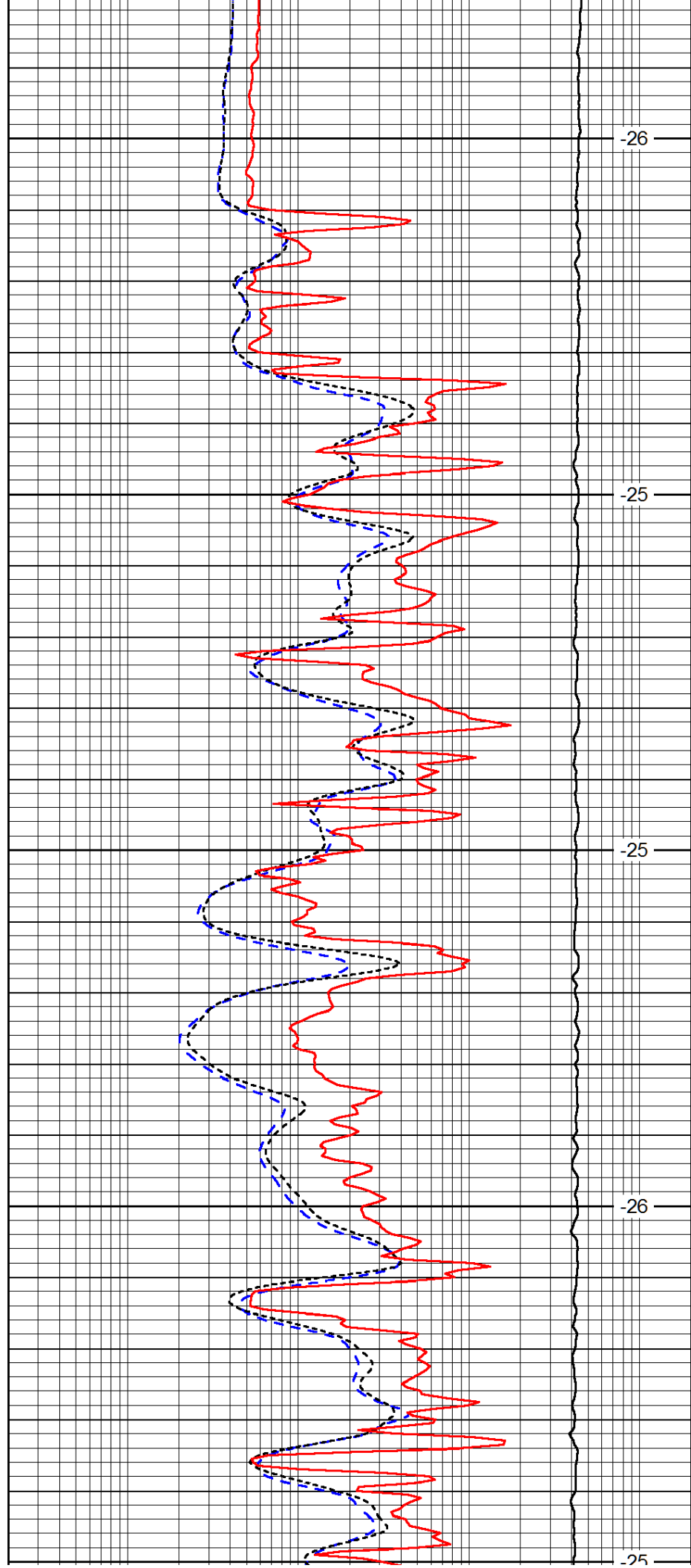
3650

3700

3750

3800

3850



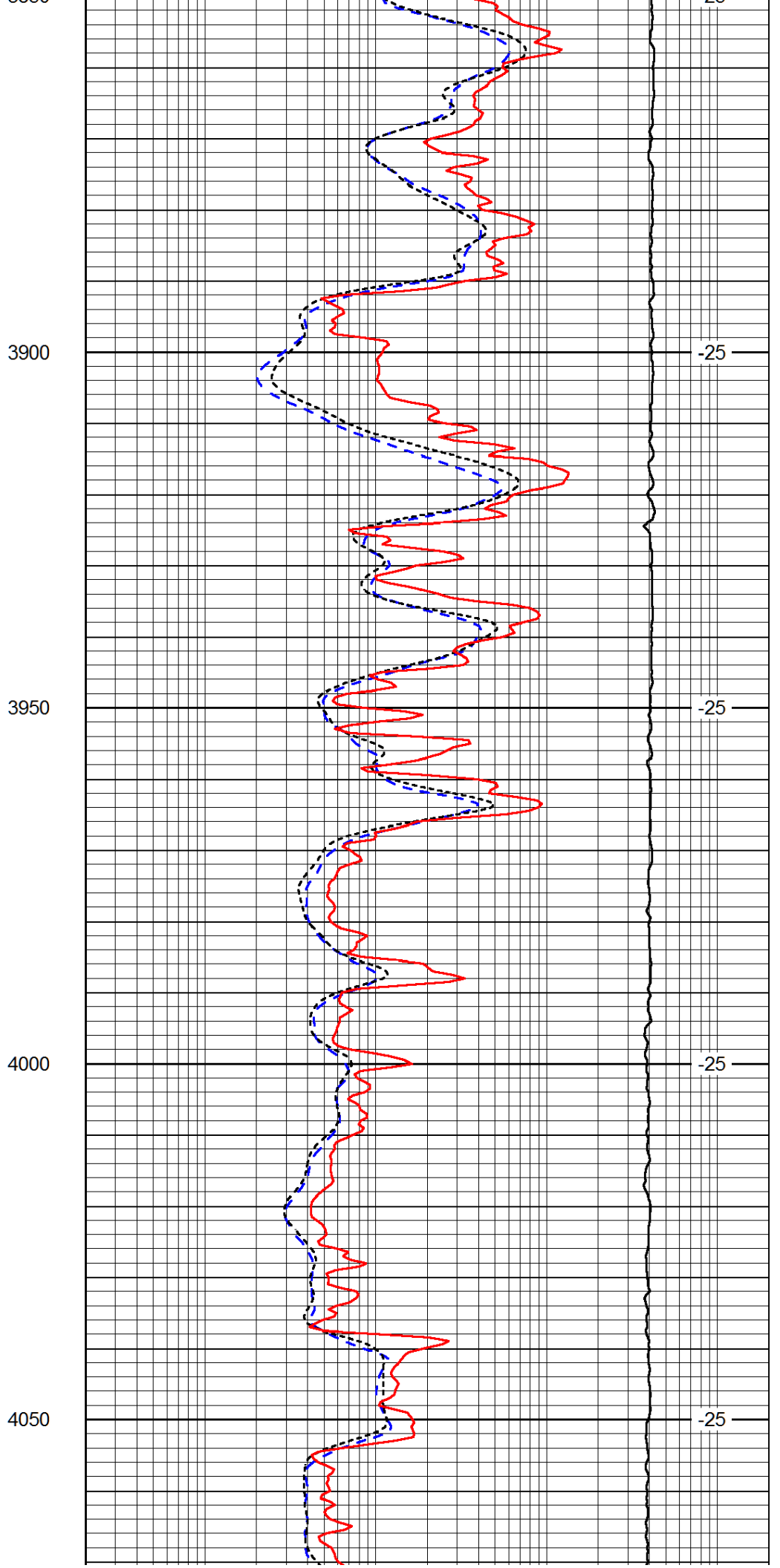
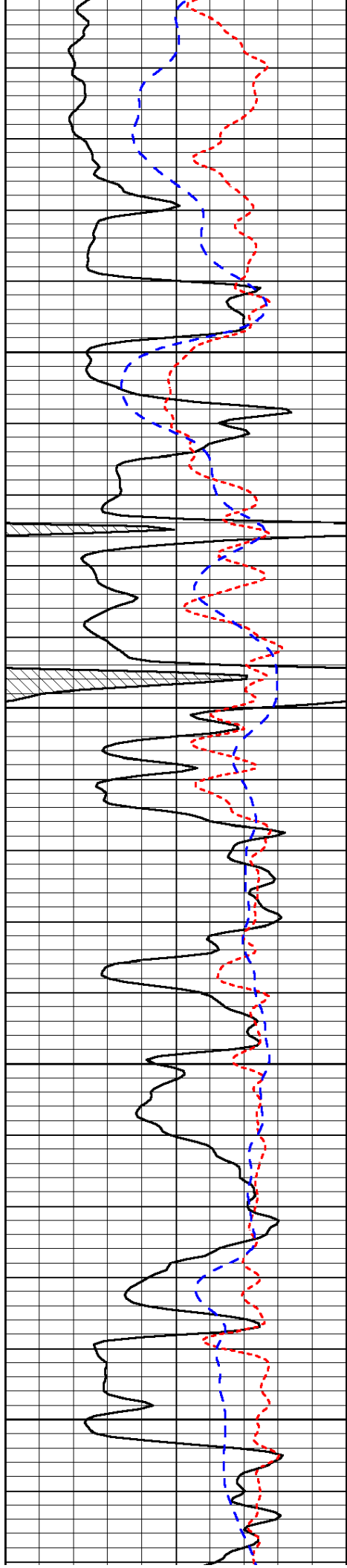
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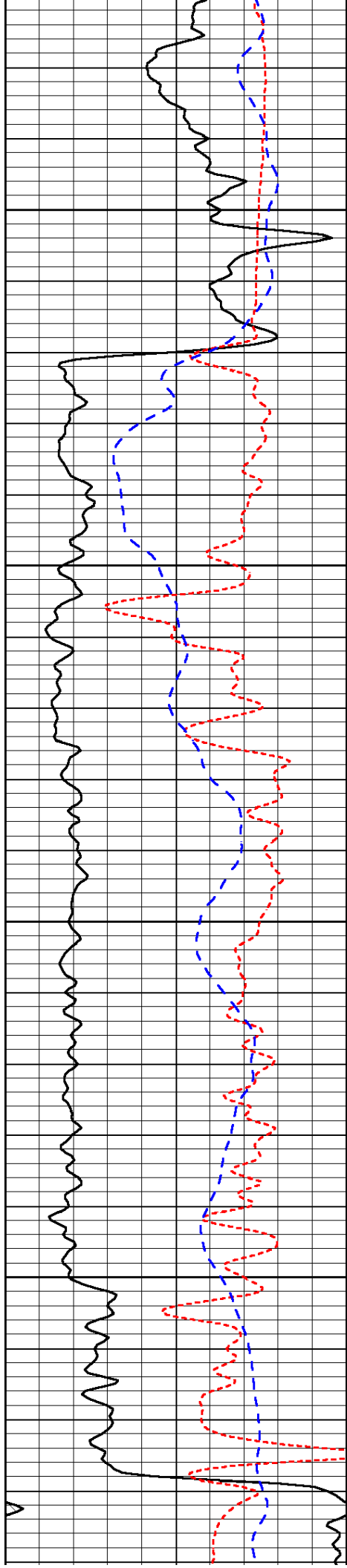
-25

-25

-26

-25



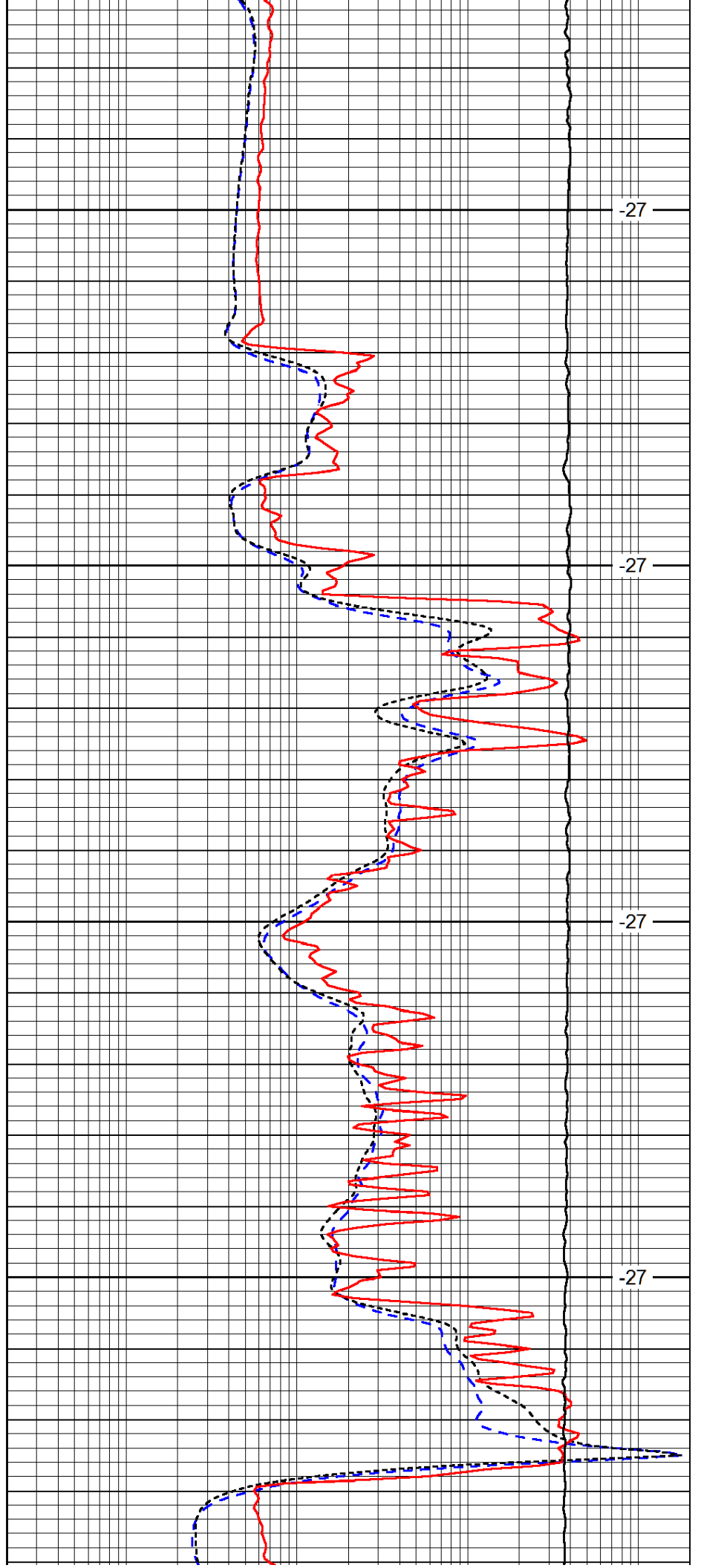


4100

4150

4200

4250

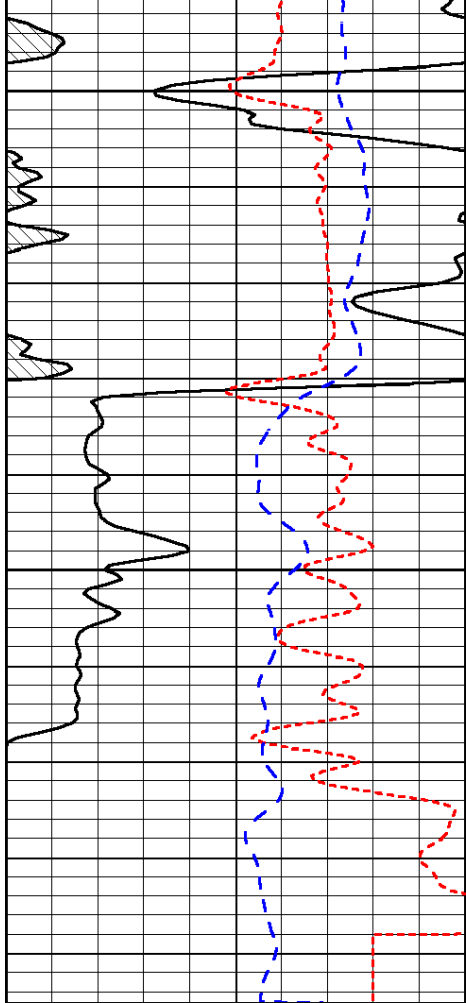


-27

-27

-27

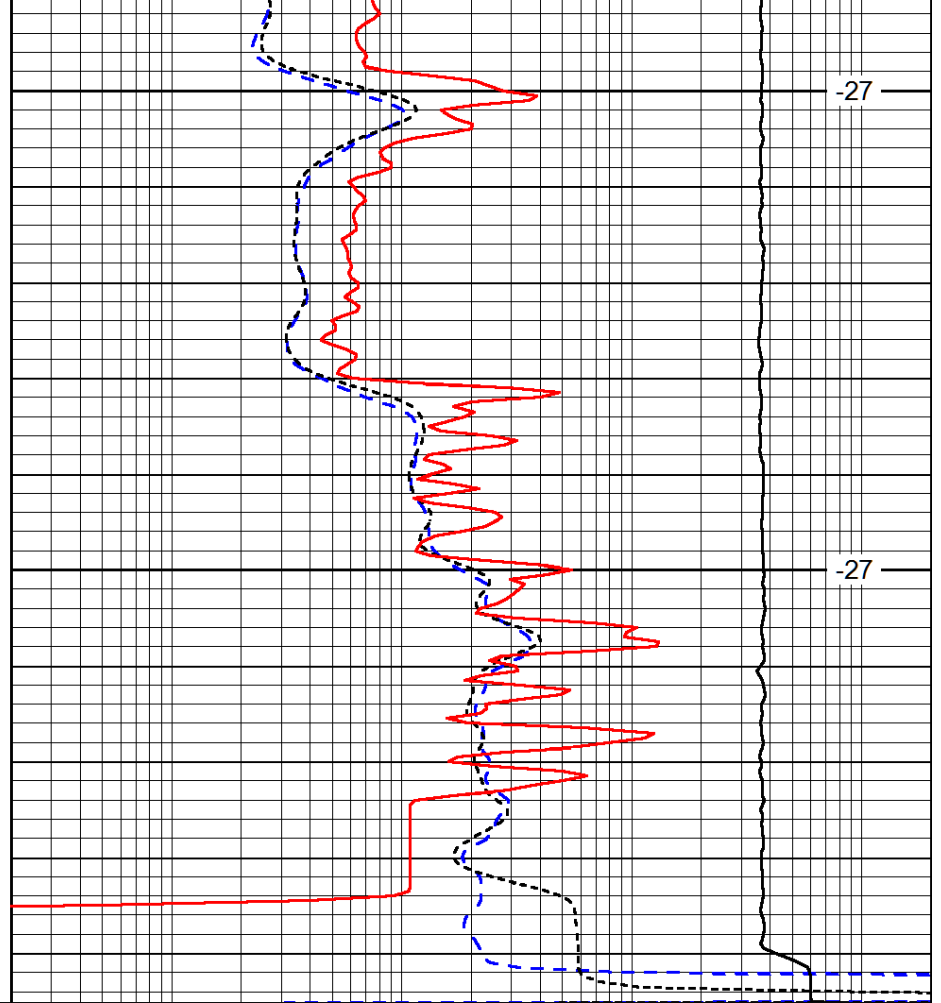
-27



4300

4350

0	Gamma Ray	150
-160	RXO/RT	40
-200	SP (mV)	0



-27

-27

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD



PAGE 1 of 1	CUST NO 1006184	YARD # 1718	INVOICE DATE 09/15/2014
INVOICE NUMBER 91594557			

Pratt (620) 672-1201
 B KNIGHTON OIL COMPANY INC
 I 1700 N WATERFRONT PKY, BLDG 100
 L WICHITA
 L KS US 67206
 T
 O ATTN: KNIGHTON

J LEASE NAME Kachelman 4
 O LOCATION
 B COUNTY Stafford
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40765051	20920		Net - 30 days	10/15/2014

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 09/09/2014 to 09/09/2014</i>				
0040765051				
171811241A Cement-New Well Casing/Pi 09/09/2014 Cement 8 5/8" Surface				
60/40 POZ	300.00	EA	9.24	2,771.63 T
Celloflake	69.00	EA	2.85	196.55 T
Calcium Chloride	774.00	EA	0.81	625.69 T
"Wooden Cmt Plug, 8 5/8"'"	1.00	EA	123.18	123.18
"Unit Mileage Chg (PU, cars one way)"	25.00	MI	3.27	81.80
Heavy Equipment Mileage	50.00	MI	5.39	269.46
"Proppant & Bulk Del. Chgs., per ton mil	323.00	EA	1.69	547.09
Depth Charge; 0-500'	1.00	EA	769.89	769.89
Blending & Mixing Service Charge	300.00	BAG	1.08	323.35
Plug Container Util. Chg.	1.00	EA	192.47	192.47
"Service Supervisor, first 8 hrs on loc.	1.00	EA	134.73	134.73

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:		
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	SUB TOTAL	6,035.84
PO BOX 841903	801 CHERRY ST, STE 2100	TAX	256.96
DALLAS, TX 75284-1903	FORT WORTH, TX 76102	INVOICE TOTAL	6,292.80



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 11136 A

11-25-14

DATE _____ TICKET NO. _____

DATE OF JOB 9-15-14	DISTRICT Pratt	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER Knighton Oil Co. Inc.		LEASE Kachelman		4		WELL NO.			
ADDRESS		COUNTY Stafford		STATE KS					
CITY		STATE		SERVICE CREW Josh Hanson Aaron Gibson Joe					
AUTHORIZED BY		JOB TYPE: CNW Long String							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE 9-14-14	AM 8:00	TIME 9:00
19826-19905	45 min					ARRIVED AT JOB	9-15-14	AM 7:00	TIME 1:15
70959-19918	45 min					START OPERATION		AM 6:15	TIME 6:15
28443						FINISH OPERATION		AM 7:00	TIME 7:00
						RELEASED		AM 8:00	TIME 8:00
						MILES FROM STATION TO WELL	25		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED:
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP 105	AA2 cement	SK	260		4,420 00	
CP 105	AA2 cement	SK	50		850 00	
CL 105	C-41 P	lb	58		232 00	
CL 111	SALT	lb	1408		704 00	
CL 112	Cement friction Reducer	lb	87		522 00	
CL 129	PLA-322	lb	144		1,080 00	
CL 201	Gilsonite	lb	1523		1,020 41	
CF 607	Latch Down Plug	eq	1		400 00	
CF 1251	Auto fill shoe	eq	1		366 00	
CF 1651	Turbo	eq	7		770 00	
CF 1901	Basket	eq	1		290 00	
CL 151	mud flush	gal	500		750 00	
E 100	Pickup mileage	mi	35		106 25	
E 101	Heavy mileage	mi	50		350 00	
E 113	Bulk Delivery	TM	359		789 25	
CE 205	Depth Charge	4hr	1		2,520 00	
CE 240	Mixing Charge	SK	310		434 00	
CE 504	Plug container	JOB	1		250 00	
S 003	Supervisor	eq	1		175 00	
					SUB TOTAL	12,337 64
CHEMICAL / ACID DATA:						
SERVICE & EQUIPMENT					%TAX ON \$	
MATERIALS					%TAX ON \$	
					TOTAL	

SERVICE REPRESENTATIVE

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

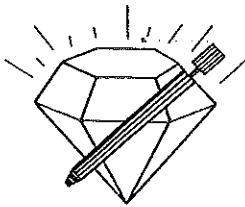
Customer Knightrn Oil CO. INC.	Lease No.	Date 9-15-14
Lease Kachelman	Well # 4	
Field Order # 11136	Station Pratt	Casing 5/2
		Depth 4390
Type Job cnw Longstring	Formation	County Stafford
		State KS
		Legal Description 11-25-14

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
5/2							
Depth 4390	Depth	From	To	Pre Pad	Max		5 Min.
Volume 102	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 4325	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative	Station Manager Kevin	Treater Joe
-------------------------	------------------------------	--------------------

Service Units	19826	19905	70959	19918	28443				
Driver Names	Josh	Aaron			Joe				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0115					ON LOC / safety meeting
					Run 103 JTS of 5/2 csg @ 15.5#
					Basket on top of Autosill shoe
					Turbos on 3-5-7-9-11-13-15
0300					Start Pumping csg
0520					Ess on bottom / circ with Big
0620					Hookup to Pump TRK start job
0620	200		5	5	H2O spacer
			12		mud flush
			5		H2O spacer
	200		63	5	mix 200 260 sk of AA2 cement @ 15.3#
			0	0	Shut Down Clear Pump & Lines
	150		0	6	Release Plug start H2O disp.
	400		65	6	LIFT PST
	800		92	4.0	Slow Rate
0700	1500		102	0	Plug Down
					Plug BH & MH
					JOB Complete
					Thank you
					Joe



DIAMOND TESTING, LLC
 P.O. Box 157
 HOISINGTON, KANSAS 67544-0157
 (800) 542-7313

TIME ON: 7:35 PM
 TIME OFF: 3:08 AM

DRILL-STEM TEST TICKET

FILE: Kachelman 4 Jst 1

Company Knighton Oil Company, Inc Lease & Well No. Kachelman #4
 Contractor Duke #1 Charge to Knighton Oil Company, Inc
 Elevation KB 1974 Formation Dred Effective Pay _____ Ft. Ticket No. K171
 Date 9-12-14 Sec. 11 Twp. 25 S Range 14 W County Stafford State KANSAS
 Test Approved By _____ Diamond Representative JASON McLEMORE

Formation Test No. 1 Interval Tested from 3807 ft. to 3827 ft. Total Depth 3927 ft.
 Packer Depth 3802 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 3807 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3793 ft. Recorder Number 5513 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 3794 ft. Recorder Number 5588 Cap. 6,000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 61 Drill Collar Length 0 ft. I.D. 2 1/4 in.

Weight 9.0 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 3,000 P.P.M. Drill Pipe Length 3775 ft. I.D. 3 1/2 in.

Jars: Make STERLING Serial Number 6 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 20 ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Strong, BOB in 4 min, No Blowback

2nd Open: Strong, BOB on open, No Blowback

Recovered 30 ft. of VSOEM, 1% Oil, 99% Mud

Recovered 30 ft. of Total Fluid

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of 750' Coas In Pipe

Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s) 10:04 PM A.M. P.M. Time Started Off Bottom 1:04 AM A.M. P.M. Maximum Temperature 109

Initial Hydrostatic Pressure..... (A) 1848 P.S.I.

Initial Flow Period..... Minutes 30 (B) 14 P.S.I. to (C) 15 P.S.I.

Initial Closed In Period..... Minutes 60 (D) 740 P.S.I.

Final Flow Period..... Minutes 30 (E) 18 P.S.I. to (F) 20 P.S.I.

Final Closed In Period..... Minutes 60 (G) 704 P.S.I.

Final Hydrostatic Pressure..... (H) 1836 P.S.I.

Diamond Testing, LLC shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



JASON MCLEMORE

CELL # 620-617-0527

General Information

Company Name	Knighton Oil Company, Inc	Job Number	K171
Contact	David Montague	Representative	Jason McLemore
Well Name	Kachelman #4	Well Operator	Knighton Oil Company, Inc
Unique Well ID	DST #1 Drum 3807-3827	Prepared By	Jason McLemore
Surface Location	11-25s-14w-Stafford	Qualified By	David Montague
Field	Albano West	Test Unit	6
Well Type	Vertical		

Test Information

Test Type	Drill Stem Test	Representative	Jason McLemore
Formation	Drum	Well Operator	Knighton Oil Company, Inc
Well Fluid Type	01 Oil	Report Date	2014/09/13
Test Purpose (AEUB)	Initial Test	Prepared By	Jason McLemore

Start Test Date	2014/09/12	Start Test Time	19:35:00
Final Test Date	2014/09/13	Final Test Time	03:08:00

Test Results

RECOVERED:

30	VSOCM, 1% Oil, 99% Mud
30	TOTAL FLUID

Knighton Oil Company, Inc
 DST #1 Drum 3807-3827
 Start Test Date: 2014/09/12
 Final Test Date: 2014/09/13

Kachelman #4

Kachelman #4
 Formation: Drum
 Pool: Wildcat
 Job Number: K171

