

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
November 2016
Form must be Typed
Form must be Signed
All blanks must be Filled

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
 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 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
--	---

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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Summary of Changes

Lease Name and Number: Lipp-Harvey 1-12

API/Permit #: 15-063-22263-00-00

Doc ID: 1273680

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	10/14/2015	12/11/2015
Perf_Depth_1		3981-3984
Perf_Depth_2		3988-3994
Perf_Depth_3		4010-4014
Perf_Material_1		250 Gal. 15% MA, retreat 500 gal 15% HCL
Perf_Material_2		250 Gal. 15% MA, retreat 500 gal 15% HCL
Perf_Material_3		500 Gal 15% MA, retreat 1000gal. 15% HCL
Perf_Record_1		3981-3984
Perf_Record_2		3988-3994
Perf_Record_3		4010-4014

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Perf_Shots_1		2
Perf_Shots_2		2
Perf_Shots_3		2
Plug Back Total Depth		4412
Save Link	../../../../kcc/detail/operatorEditDetail.cfm?docID=1260862	../../../../kcc/detail/operatorEditDetail.cfm?docID=1273680
Tubing Set At		4374
Tubing Size		2.375



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1260862
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: _____

- 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: _____

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)*
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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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P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
8/19/2015	28980

BILL TO
Carmen Schmitt, Inc. P. O. Box 47 915 Harrison Great Bend, KS 67530-0047

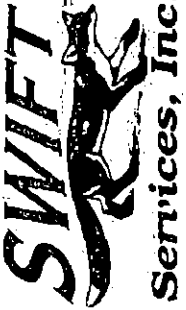
- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-12	Lipp-Harvey C	Gove	Murfing Drilling #...	Oil	Development	5-1/2" LongString	Jason

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	45	Miles	5.00	225.00
579D	Pump Charge - Top To Bottom LongString	1	Job	1,700.00	1,700.00
402-5	5 1/2" Centralizer	10	Each	60.00	600.00T
403-5	5 1/2" Cement Basket	3	Each	250.00	750.00T
406-5	5 1/2" Latch Down Plug & Baffle	1	Each	225.00	225.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill	1	Each	300.00	300.00T
419-5	5 1/2" Rotating Head Rental	1	Each	200.00	200.00T
281	Mud Flush	500	Gallon(s)	1.25	625.00T
221	Liquid KCL (Clayfix)	2	Gallon(s)	25.00	50.00T
276	Flocele	140	Lb(s)	2.25	315.00T
283	Salt	750	Lb(s)	0.20	150.00T
284	Calseal	7	Sack(s)	30.00	210.00T
285	CFR-1	70	Lb(s)	4.50	315.00T
290	D-Air	5	Gallon(s)	42.00	210.00T
325	Standard Cement	150	Sacks	12.25	1,837.50T
330	Swift Multi-Density Standard (MIDCON II)	400	Sacks	15.75	6,300.00T
581D	Service Charge Cement	550	Sacks	1.50	825.00
583D	Drayage	1,248.97	Ton Miles	0.75	936.73
	Subtotal				15,774.23
	Sales Tax Gove County			8.50%	1,027.44

710/43
18971.0112
Well Aik
Swift Long
String

We Appreciate Your Business!	Total	\$16,801.67
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TICKET 28980

PAGE 1 OF 2

CHARGE TO: CARMEN SCAMILLI
 ADDRESS
 CITY, STATE, ZIP CODE

WELL PROJECT NO. 1-BC
 TICKET TYPE: SERVICE SALES
 CONTRACTOR: LIPP HARVEY
 STATE: KS. COUNTY: WICCA, KS. DATE: 19 AUG 15
 WELL TYPE: OIL
 JOB PURPOSE: DEVELOPMENT
 RIG NAME/NO: GOVE
 SHIPPED VIA: DELIVERED TO
 WELL PERMIT NO.:
 WELL LOCATION: 15N, 6E, N1/4T8

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT							
575				MILEAGE # 115	45	MIL			5.00	225.00
579				Ramp CHARGE	1	JOB			1700.00	1700.00
402				CENTRALIZERS	10	EA.			60.00	600.00
403				CEMENT BASKET	3	EA.			250.00	750.00
406				LATCH DOWN PLUG & BARRIE	1	EA.			225.00	225.00
407				INSERT FLOAT SHADE w/ FILL	1	EA.			300.00	300.00
419				ROTATING HEAD RENTAL	1	JOB			200.00	200.00
281				MUD FLUGH	500	PL			1.35	625.00
281				KPI	2	PL			25.00	50.00

SURVEY: OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? WE UNDERSTOOD AND MET YOUR NEEDS? YOUR SERVICE WAS PERFORMED WITHOUT DELAY? WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? ARE YOU SATISFIED WITH OUR SERVICE? YES NO

UN-DECIDED DIS-AGREE AGREE TOTAL CUSTOMER DID NOT WISH TO RESPOND

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X. Curtis *[Signature]*
 DATE SIGNED: 19 AUG 15 TIME SIGNED: 1730
 A.M. P.M.

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR: *[Signature]* APPROVAL

TOTAL: 16,801.67

Thank You!



PO Box 466
 Ness City, KS 67560
 Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 28980

DATE 19 AUG 65 PAGE 2 OF 2

WELL HIPP-HARVEY C-12

CUSTOMER CARMEN SCHMITT

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		TIME	DESCRIPTION	QTY		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT			DF	QTY	U/M	U/M		
276					FLOCELE	140	lbs			2.35	315.00
283					SALT	750	lbs			20	150.00
284					WALSEAL	7	5x			30.00	210.00
285					CFR-1	70	lb			4.50	315.00
290					D-AIR	5	gal			42.00	210.00
325					STANDARD EA-2	150	5x			12.25	1837.50
330					SMD CEMENT	400	5x			15.75	6300.00
581					SERVICE CHARGE		CUBIC FEET	550	5x	1.50	825.00
583					MILEAGE CHARGE		TON MILES	1248.97	75	75	936.73

CONTINUATION TOTAL 11099.23

JOB LOG

SWIFT Services, Inc.

DATE 19 AUG 15 PAGE NO.

CUSTOMER CARMEN SCAMITT

WELL NO.

LEASE LIPP-HARVEY C1-W

JOB TYPE S LONGSTRUNG

TICKET NO. 28980

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1100							ON LOCATION
	1225							START PIPE - 5 1/2" - 15.5" RTD @ 4440 SHOE JT. 18.12 CENTRALIZERS 2, 4, 6, 8, 10, 12, 14, 16, 28, 59 BASKETS 2, 10, 58
	1427							DROP BALL - CIRCULATE
	1527	0	12		✓	300		Pump 500 gal MWD FLUSH
		6	20		✓	320		Pump 20 bbl KEL SPACER
	1531		7.5					PLUG RA 30sx - MA 20sx
	1539	6	194		✓			MIX 350sx SMD
		4	36		✓			MIX 150sx EA-2
	1628							WASH OUT Pump & LINES
	1631	6			✓			START DISPLACING PLUG.
	1650	8	105		✓	1500		PLUG DOWN - LATCA PLUG IN.
	1652				✓			RELEASE PSI - Dry CIRCULATE CEMENT TO SURFACE
								JOB COMPLETE
								THANKS # 115
								JASON COLE ISAAC PRESTON



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt #1-12**

PO Box 47
Great Bend, KS 67530

ATTN: Pat Deenihan

Lipp-Harvey #1-12

12-14s-26w Gove,KS

Start Date: 2015.08.15 @ 15:45:00

End Date: 2015.08.15 @ 20:32:15

Job Ticket #: 64710 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.08.20 @ 10:22:46



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmitt #1-12
PO Box 47
Great Bend, KS 67530
ATTN: Pat Deenihan

12-14s-26w Gove, KS
Lipp-Harvey #1-12
Job Ticket: 64710 **DST#: 1**
Test Start: 2015.08.15 @ 15:45:00

GENERAL INFORMATION:

Formation: **KC "H"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:21:45
Time Test Ended: 20:32:15
Interval: **3890.00 ft (KB) To 3917.00 ft (KB) (TVD)**
Total Depth: 3917.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2464.00 ft (KB)
2459.00 ft (CF)
KB to GR/CF: 5.00 ft
Test Type: Conventional Bottom Hole (Initial)
Tester: Brett Dickinson
Unit No: 81

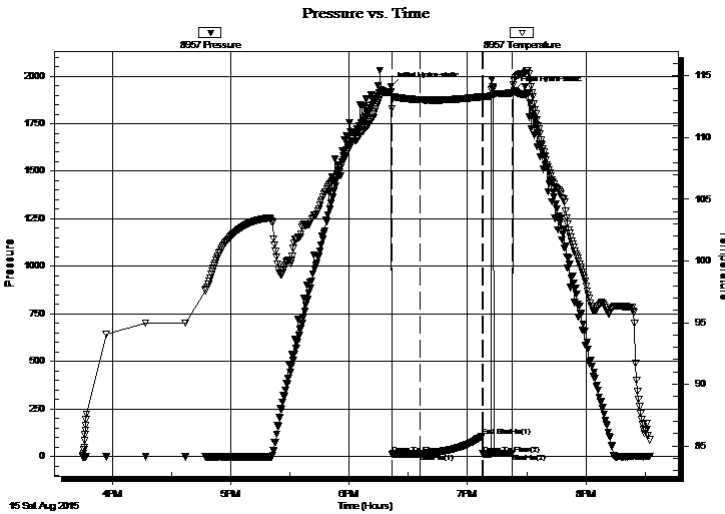
Serial #: 8957

Inside

Press@RunDepth: 14.23 psig @ 3891.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.08.15 End Date: 2015.08.15 Last Calib.: 2015.08.15
Start Time: 15:45:05 End Time: 20:32:14 Time On Btm: 2015.08.15 @ 18:21:15
Time Off Btm: 2015.08.15 @ 19:23:45

TEST COMMENT: IF-Very Weak Surface blow died in 7 min
IS-No blow
FF-No blow Flush tool Surge No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1945.05	113.70	Initial Hydro-static
1	11.97	112.36	Open To Flow (1)
15	14.23	113.07	Shut-In(1)
46	107.01	113.32	End Shut-In(1)
47	13.88	113.30	Open To Flow (2)
62	14.67	113.63	Shut-In(2)
63	1921.52	114.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Carmen Schmitt #1-12
 PO Box 47
 Great Bend, KS 67530
 ATTN: Pat Deenihan

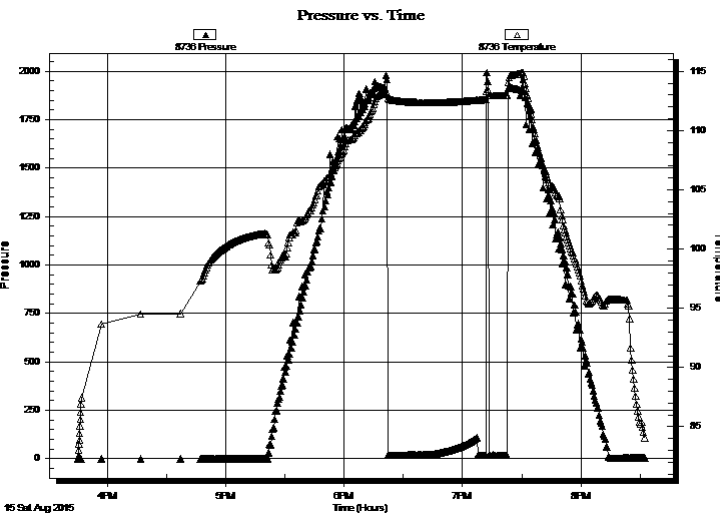
12-14s-26w Gove,KS
Lipp-Harvey #1-12
 Job Ticket: 64710 **DST#: 1**
 Test Start: 2015.08.15 @ 15:45:00

GENERAL INFORMATION:

Formation: KC "H"		Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock:	ft (KB)	Tester: Brett Dickinson
Time Tool Opened: 18:21:45		Unit No: 81
Time Test Ended: 20:32:15		Reference Elevations: 2464.00 ft (KB)
Interval: 3890.00 ft (KB) To 3917.00 ft (KB) (TVD)		2459.00 ft (CF)
Total Depth: 3917.00 ft (KB) (TVD)		KB to GR/CF: 5.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair	

Serial #: 8736	Outside		
Press@RunDepth: psig @	3891.00 ft (KB)	Capacity: 8000.00 psig	
Start Date: 2015.08.15	End Date: 2015.08.15	Last Calib.: 2015.08.15	
Start Time: 15:45:05	End Time: 20:32:14	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF-Very Weak Surface blow died in 7 min
 IS-No blow
 FF-No blow Flush tool Surge No blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt #1-12

12-14s-26w Gove,KS

PO Box 47
Great Bend, KS 67530

Lipp-Harvey #1-12

Job Ticket: 64710

DST#: 1

ATTN: Pat Deenihan

Test Start: 2015.08.15 @ 15:45:00

Tool Information

Drill Pipe:	Length: 3865.00 ft	Diameter: 3.80 inches	Volume: 54.22 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
			- bbl	String Weight: Initial	49000.00 lb
Drill Pipe Above KB:	25.00 ft			Final	49000.00 lb
Depth to Top Packer:	3890.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	47.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3875.00	
Hydraulic tool	5.00			3880.00	
Packer	5.00			3885.00	20.00 Bottom Of Top Packer
Packer	5.00			3890.00	
Packer - Shale	0.00			3890.00	
Stubb	1.00			3891.00	
Recorder	0.00	8957	Inside	3891.00	
Recorder	0.00	8736	Outside	3891.00	
Perforations	23.00			3914.00	
Bullnose	3.00			3917.00	27.00 Bottom Packers & Anchor
Total Tool Length:	47.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt #1-12

12-14s-26w Gove,KS

PO Box 47
Great Bend, KS 67530

Lipp-Harvey #1-12

Job Ticket: 64710

DST#: 1

ATTN: Pat Deenihan

Test Start: 2015.08.15 @ 15:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

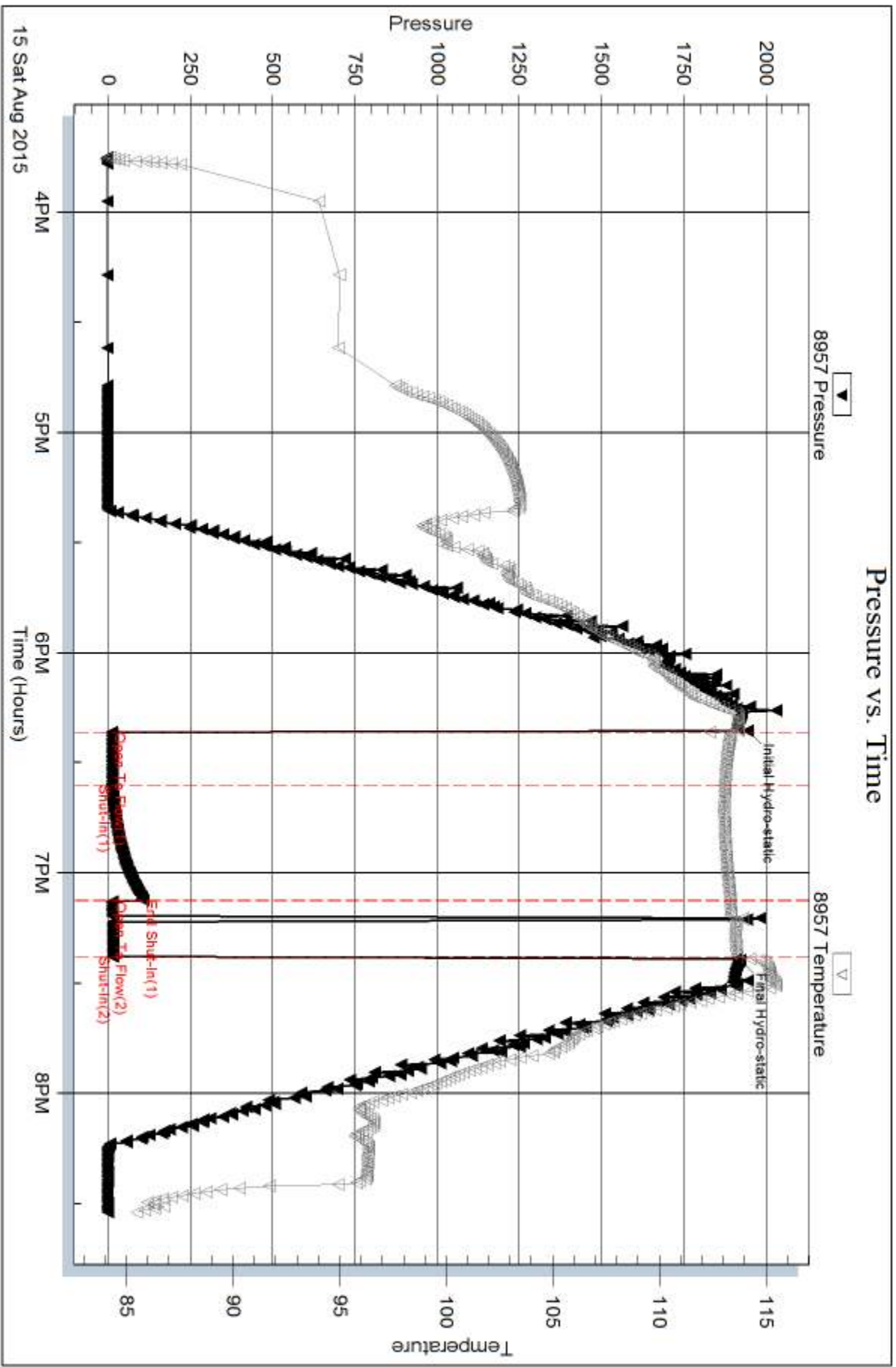
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

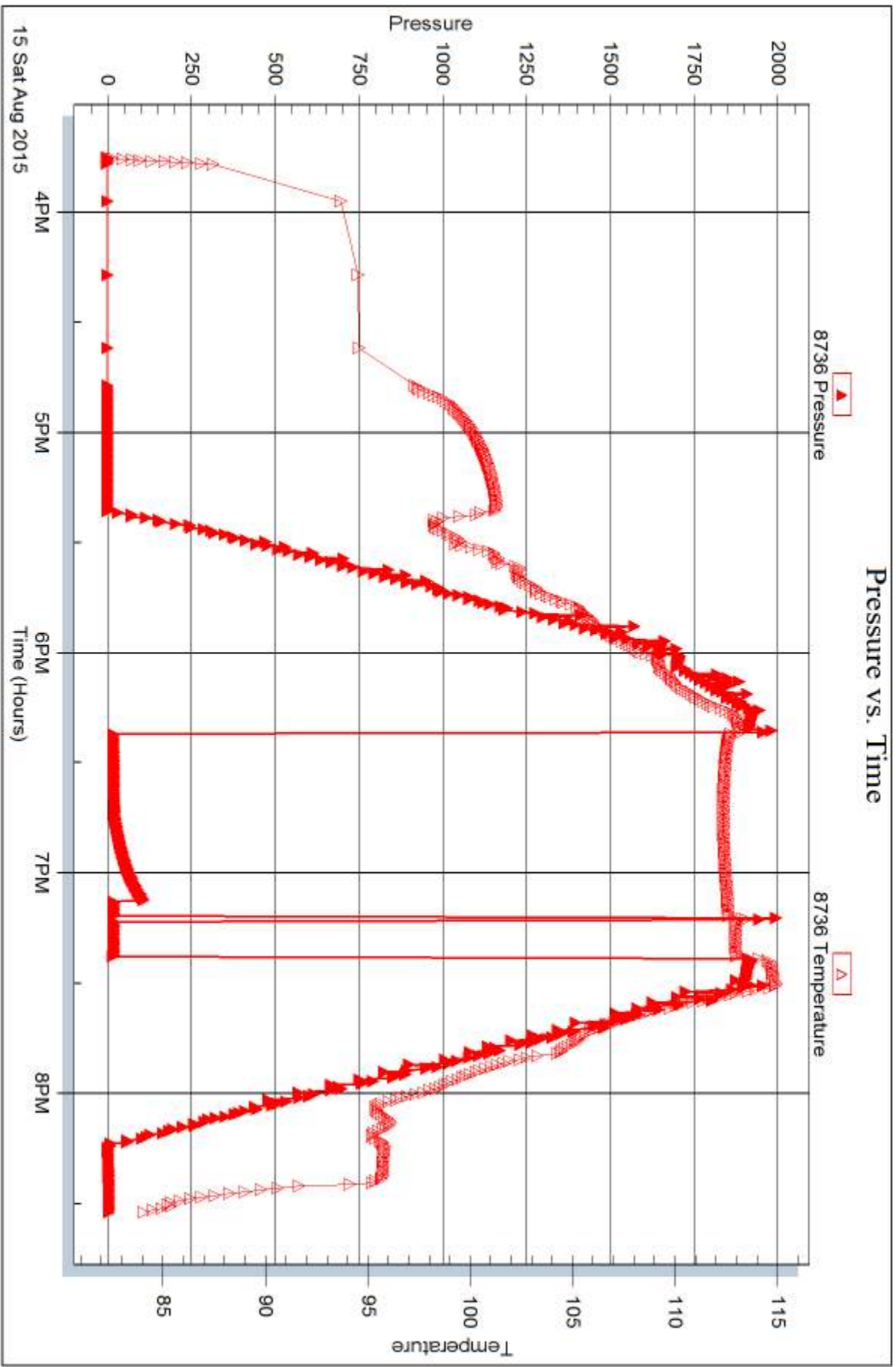


Serial #: 8736

Outside Carmen Schnitt #1-12

Lipp-Harvey #1-12

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt #1-12**

PO Box 47
Great Bend, KS 67530

ATTN: Pat Deenihan

Lipp-Harvey #1-12

12-14s-26w Gove,KS

Start Date: 2015.08.16 @ 09:00:00

End Date: 2015.08.16 @ 15:34:15

Job Ticket #: 64712 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.08.20 @ 10:22:24



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt #1-12
PO Box 47
Great Bend, KS 67530
ATTN: Pat Deenihan

12-14s-26w Gove,KS
Lipp-Harvey #1-12
Job Ticket: 64712 **DST#: 2**
Test Start: 2015.08.16 @ 09:00:00

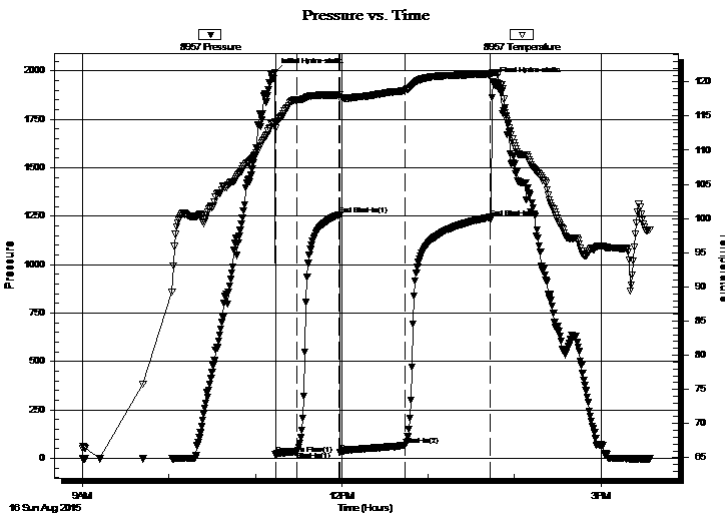
GENERAL INFORMATION:

Formation: **KC"K"**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 11:14:00 Tester: Brett Dickinson
Time Test Ended: 15:34:15 Unit No: 81
Interval: 3967.00 ft (KB) To 3994.00 ft (KB) (TVD) Reference Elevations: 2464.00 ft (KB)
Total Depth: 3994.00 ft (KB) (TVD) 2459.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8957 Inside
Press@RunDepth: 67.05 psig @ 3968.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.08.16 End Date: 2015.08.16 Last Calib.: 2015.08.16
Start Time: 09:00:05 End Time: 15:34:14 Time On Btm: 2015.08.16 @ 11:13:30
Time Off Btm: 2015.08.16 @ 13:44:45

TEST COMMENT: IF-BOB in 15 min
IS-No Blow
FF-BOB in 7 min
FS-No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1992.74	114.09	Initial Hydro-static
1	18.65	113.25	Open To Flow (1)
16	35.14	117.35	Shut-In(1)
45	1257.54	118.06	End Shut-In(1)
46	31.61	117.68	Open To Flow (2)
91	67.05	118.77	Shut-In(2)
150	1244.44	121.08	End Shut-In(2)
152	1942.66	121.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
115.00	SGMCO 15%G 55%O 30%M	1.34
25.00	SGO 10%G 90%O	0.35
0.00	580ft GIP	0.00

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmitt #1-12
PO Box 47
Great Bend, KS 67530
ATTN: Pat Deenihan

12-14s-26w Gove,KS
Lipp-Harvey #1-12
Job Ticket: 64712 **DST#: 2**
Test Start: 2015.08.16 @ 09:00:00

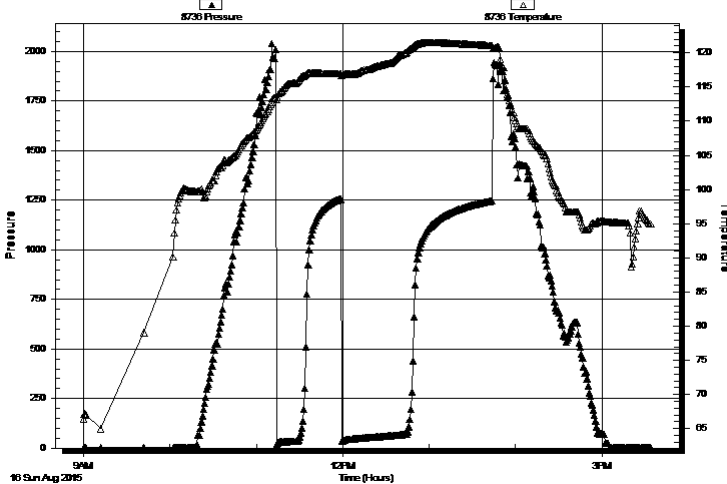
GENERAL INFORMATION:

Formation: **KC"K"**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 11:14:00 Tester: Brett Dickinson
Time Test Ended: 15:34:15 Unit No: 81
Interval: 3967.00 ft (KB) To 3994.00 ft (KB) (TVD) Reference Elevations: 2464.00 ft (KB)
Total Depth: 3994.00 ft (KB) (TVD) 2459.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8736 Outside
Press@RunDepth: psig @ 3968.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.08.16 End Date: 2015.08.16 Last Calib.: 2015.08.16
Start Time: 09:00:05 End Time: 15:34:14 Time On Btm:
Time Off Btm:

TEST COMMENT: IF-BOB in 15 min
IS-No Blow
FF-BOB in 7 min
FS-No Blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
115.00	SGMCO 15%G 55%O 30%M	1.34
25.00	SGO 10%G 90%O	0.35
0.00	580ft GIP	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt #1-12

12-14s-26w Gove,KS

PO Box 47
Great Bend, KS 67530

Lipp-Harvey #1-12

Job Ticket: 64712

DST#: 2

ATTN: Pat Deenihan

Test Start: 2015.08.16 @ 09:00:00

Tool Information

Drill Pipe:	Length: 3925.00 ft	Diameter: 3.80 inches	Volume: 55.06 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	52000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	47000.00 lb
Drill Pipe Above KB:	8.00 ft			Final	49000.00 lb
Depth to Top Packer:	3967.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	47.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3952.00	
Hydraulic tool	5.00			3957.00	
Packer	5.00			3962.00	20.00 Bottom Of Top Packer
Packer	5.00			3967.00	
Packer - Shale	0.00			3967.00	
Stubb	1.00			3968.00	
Recorder	0.00	8957	Inside	3968.00	
Recorder	0.00	8736	Outside	3968.00	
Perforations	23.00			3991.00	
Bullnose	3.00			3994.00	27.00 Bottom Packers & Anchor
Total Tool Length:	47.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt #1-12

12-14s-26w Gove,KS

PO Box 47
Great Bend, KS 67530

Lipp-Harvey #1-12

Job Ticket: 64712

DST#: 2

ATTN: Pat Deenihan

Test Start: 2015.08.16 @ 09:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
115.00	SGMCO 15%G 55%O 30%M	1.340
25.00	SGO 10%G 90%O	0.351
0.00	580ft GIP	0.000

Total Length: 140.00 ft

Total Volume: 1.691 bbl

Num Fluid Samples: 0

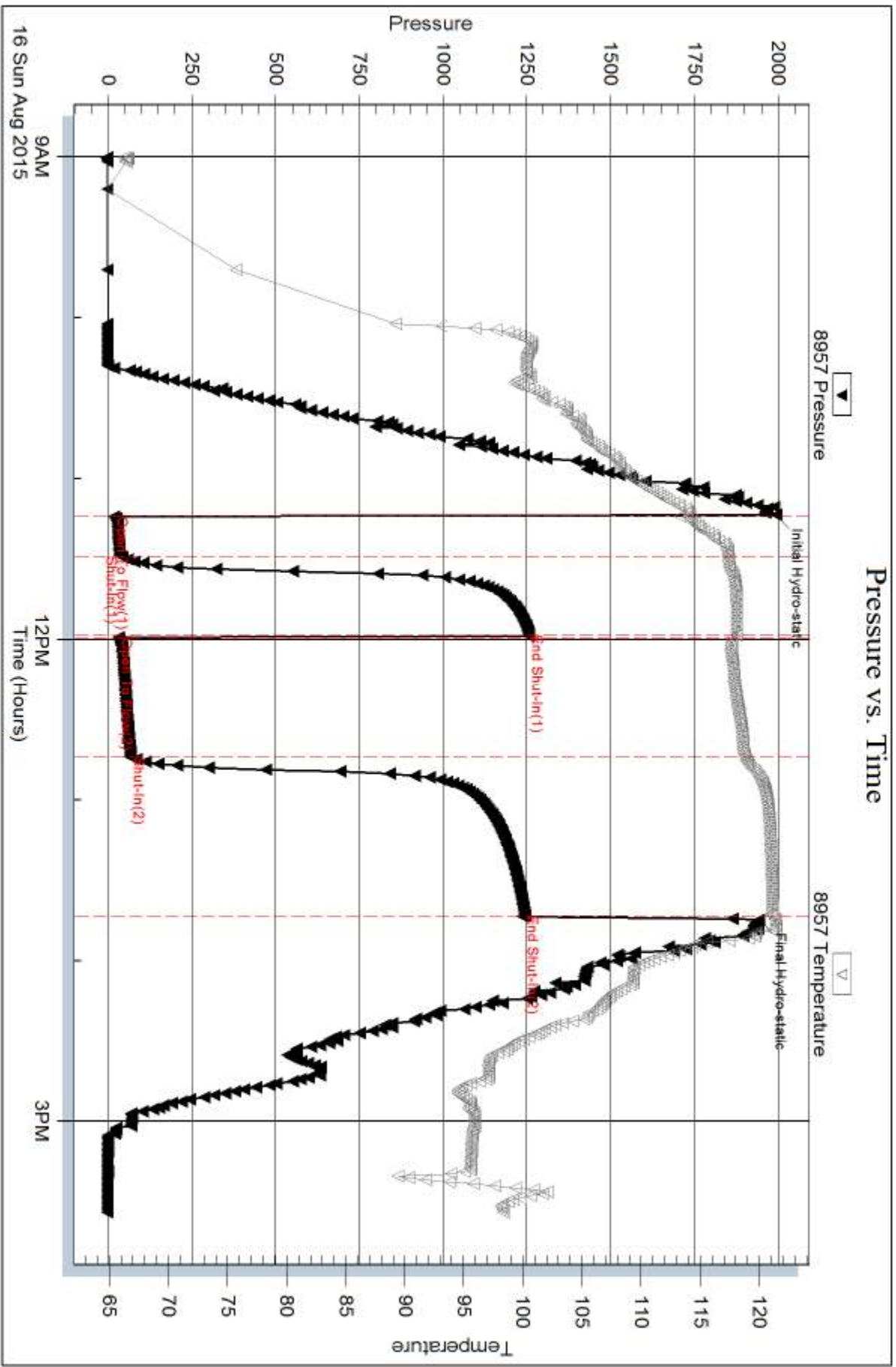
Num Gas Bombs: 0

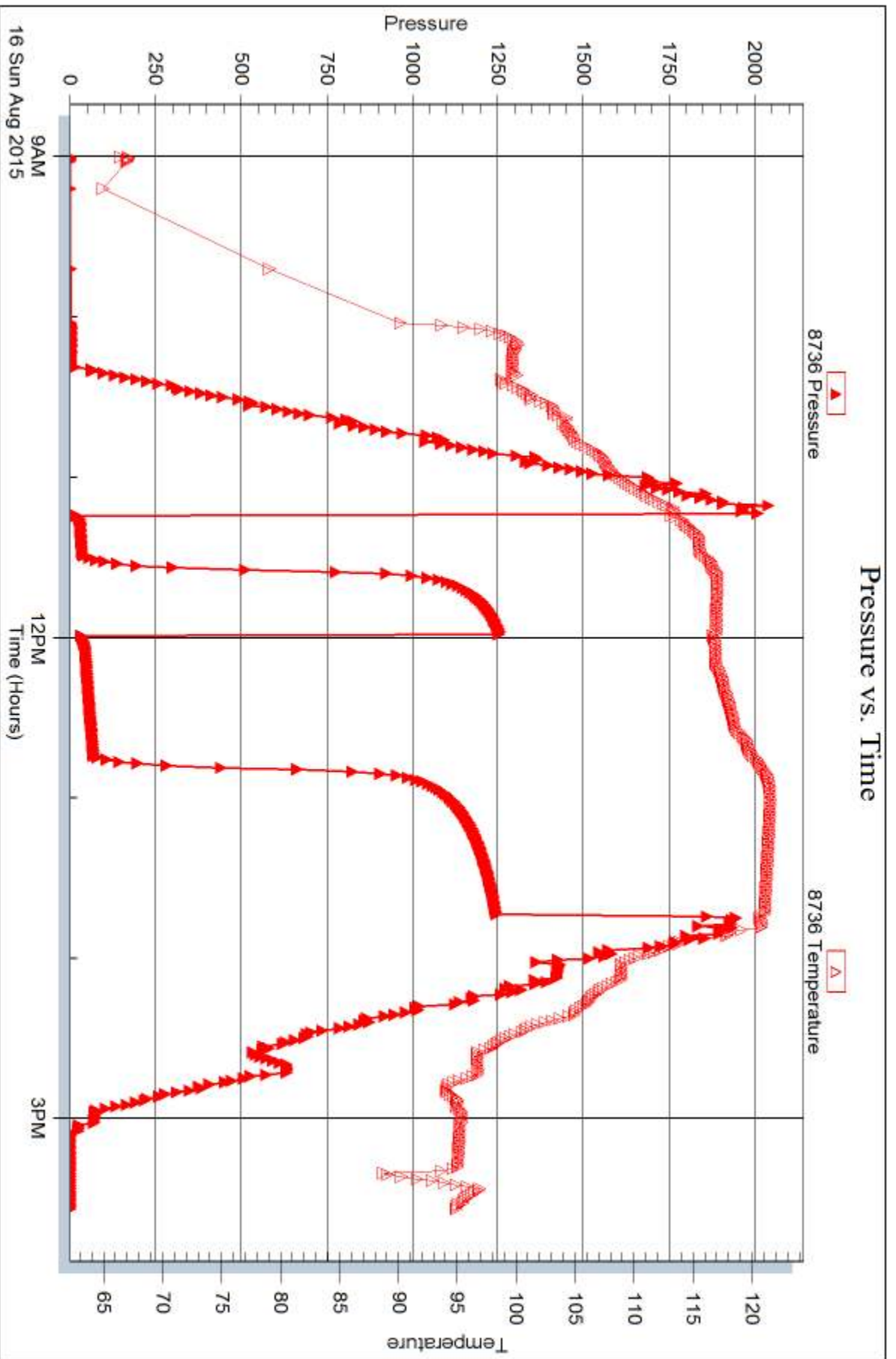
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt #1-12**

PO Box 47
Great Bend, KS 67530

ATTN: Pat Deenihan

Lipp-Harvey #1-12

12-14s-26w Gove,KS

Start Date: 2015.08.16 @ 22:15:00

End Date: 2015.08.17 @ 04:31:15

Job Ticket #: 64713 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.08.20 @ 10:22:03



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmitt #1-12
PO Box 47
Great Bend, KS 67530
ATTN: Pat Deenihan

12-14s-26w Gove, KS
Lipp-Harvey #1-12
Job Ticket: 64713 **DST#: 3**
Test Start: 2015.08.16 @ 22:15:00

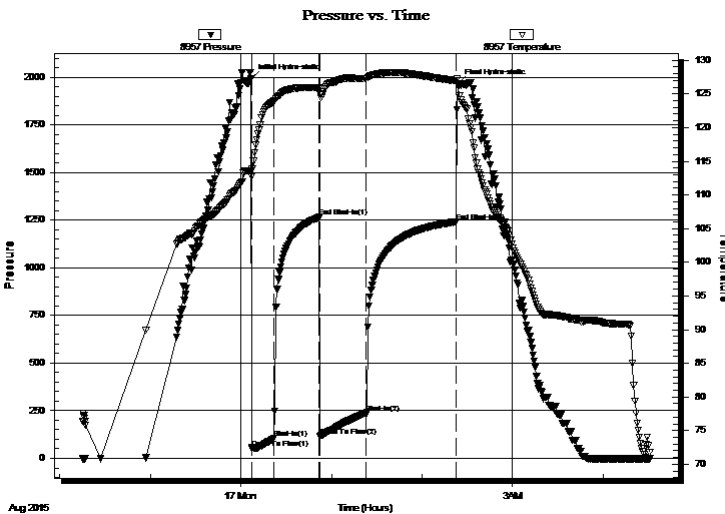
GENERAL INFORMATION:

Formation: **KC"L"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:07:15
Time Test Ended: 04:31:15
Interval: **3996.00 ft (KB) To 4030.00 ft (KB) (TVD)**
Total Depth: 4030.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2464.00 ft (KB)
2459.00 ft (CF)
KB to GR/CF: 5.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Brett Dickinson
Unit No: 81

Serial #: 8957 Inside
Press@RunDepth: 237.65 psig @ 3997.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.08.16 End Date: 2015.08.17 Last Calib.: 2015.08.17
Start Time: 22:15:05 End Time: 04:31:14 Time On Btm: 2015.08.17 @ 00:06:45
Time Off Btm: 2015.08.17 @ 02:24:00

TEST COMMENT: IF-BOB in 2 min
IS-BOB in 7 min
FF-BOB in 3 1/2 min
FS-BOB in 9 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1993.80	113.62	Initial Hydro-static
1	53.54	112.69	Open To Flow (1)
16	105.02	124.00	Shut-In(1)
45	1264.84	125.88	End Shut-In(1)
46	117.34	125.03	Open To Flow (2)
77	237.65	127.27	Shut-In(2)
136	1242.01	126.93	End Shut-In(2)
138	1965.08	126.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 30%G 30%O 40%M	0.57
185.00	GSMCO 30%G 60%O 10%M	2.60
405.00	GO 40%G 60%O	5.68
0.00	1550ft GIP	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Carmen Schmitt #1-12
 PO Box 47
 Great Bend, KS 67530
 ATTN: Pat Deenihan

12-14s-26w Gove,KS

Lipp-Harvey #1-12

Job Ticket: 64713

DST#: 3

Test Start: 2015.08.16 @ 22:15:00

GENERAL INFORMATION:

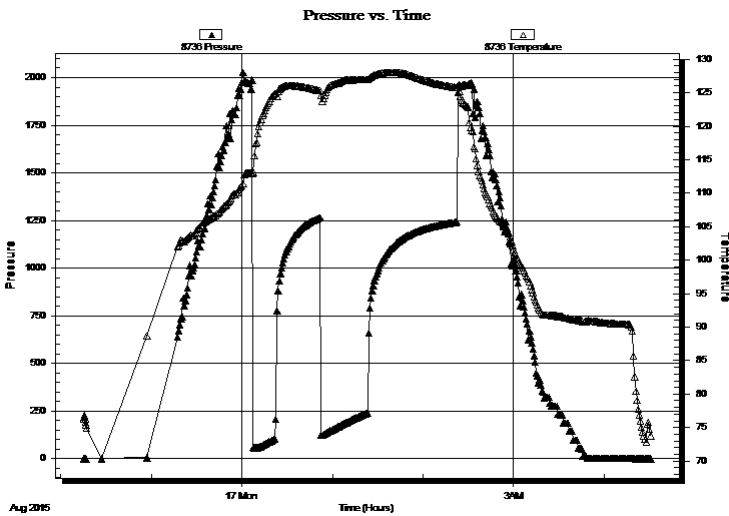
Formation: **KC"L"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:07:15
 Time Test Ended: 04:31:15
 Interval: **3996.00 ft (KB) To 4030.00 ft (KB) (TVD)**
 Total Depth: 4030.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brett Dickinson
 Unit No: 81
 Reference Elevations: 2464.00 ft (KB)
 2459.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8736

Outside

Press@RunDepth: psig @ 3997.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.08.16 End Date: 2015.08.17 Last Calib.: 2015.08.17
 Start Time: 22:15:05 End Time: 04:31:14 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-BOB in 2 min
 IS-BOB in 7 min
 FF-BOB in 3 1/2 min
 FS-BOB in 9 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 30%G 30%O 40%M	0.57
185.00	GSMCO 30%G 60%O 10%M	2.60
405.00	GO 40%G 60%O	5.68
0.00	1550ft GIP	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt #1-12

12-14s-26w Gove,KS

PO Box 47
Great Bend, KS 67530

Lipp-Harvey #1-12

Job Ticket: 64713

DST#: 3

ATTN: Pat Deenihan

Test Start: 2015.08.16 @ 22:15:00

Tool Information

Drill Pipe:	Length: 3960.00 ft	Diameter: 3.80 inches	Volume: 55.55 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	56000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	47000.00 lb
Drill Pipe Above KB:	14.00 ft			Final	50000.00 lb
Depth to Top Packer:	3996.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	34.00 ft				
Tool Length:	54.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3981.00	
Hydraulic tool	5.00			3986.00	
Packer	5.00			3991.00	20.00 Bottom Of Top Packer
Packer	5.00			3996.00	
Packer - Shale	0.00			3996.00	
Stubb	1.00			3997.00	
Recorder	0.00	8957	Inside	3997.00	
Recorder	0.00	8736	Outside	3997.00	
Perforations	30.00			4027.00	
Bullnose	3.00			4030.00	34.00 Bottom Packers & Anchor
Total Tool Length:	54.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt #1-12

12-14s-26w Gove,KS

PO Box 47
Great Bend, KS 67530

Lipp-Harvey #1-12

Job Ticket: 64713

DST#: 3

ATTN: Pat Deenihan

Test Start: 2015.08.16 @ 22:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	GOCM 30%G 30%O 40%M	0.568
185.00	GSMCO 30%G 60%O 10%M	2.595
405.00	GO 40%G 60%O	5.681
0.00	1550ft GIP	0.000

Total Length: 650.00 ft

Total Volume: 8.844 bbl

Num Fluid Samples: 0

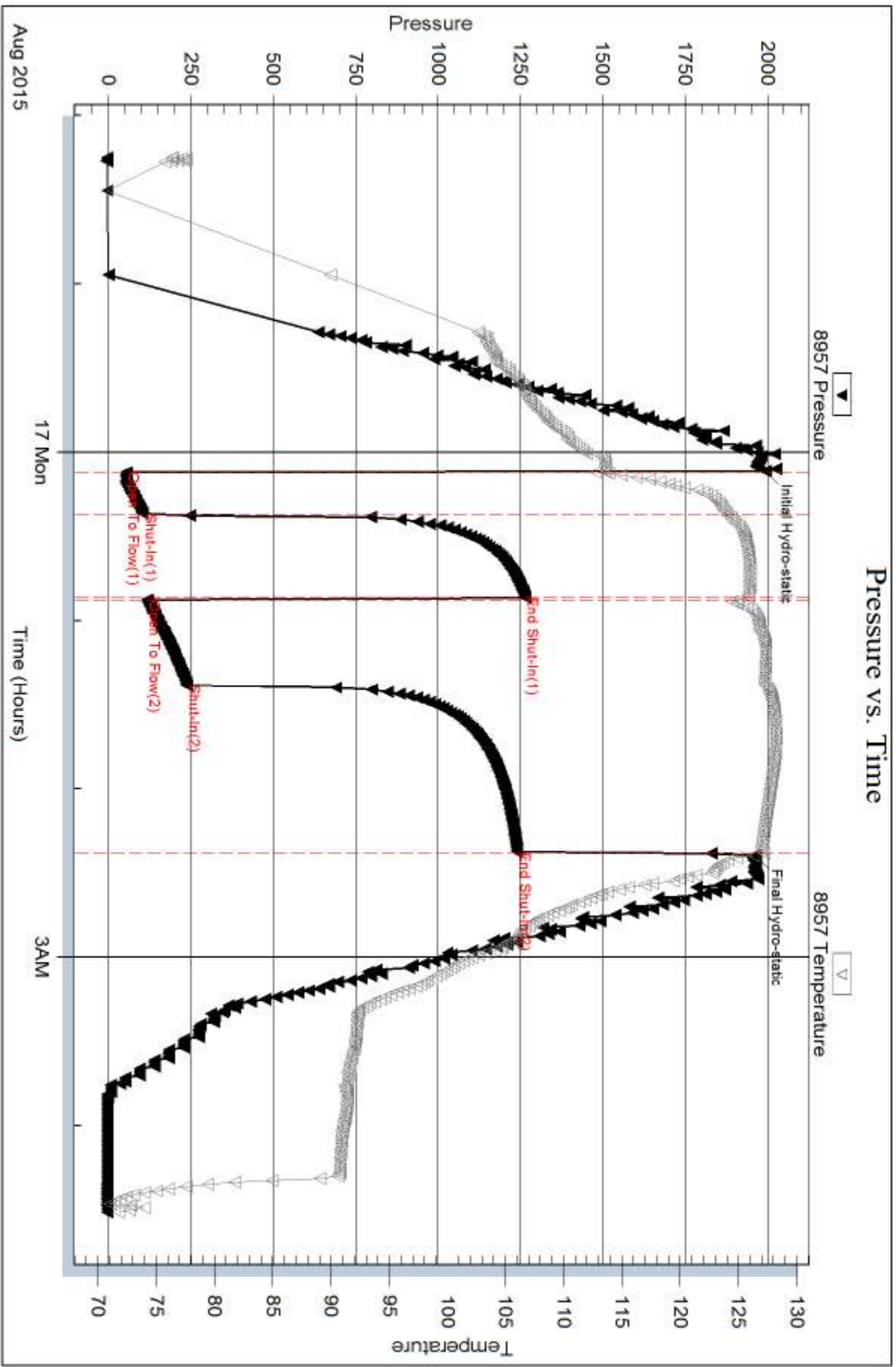
Num Gas Bombs: 0

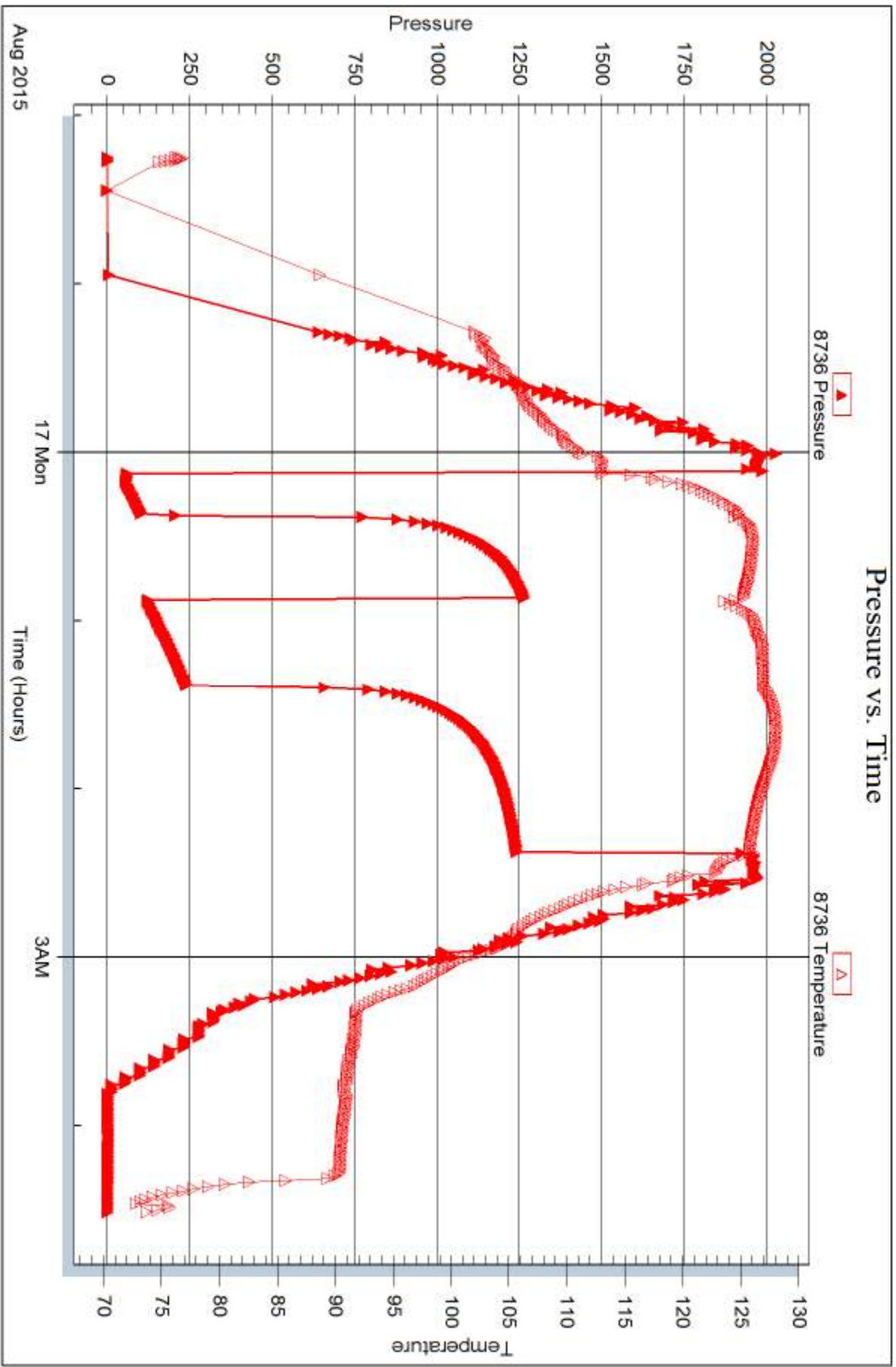
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt #1-12**

PO Box 47
Great Bend, KS 67530

ATTN: Pat Deenihan

Lipp-Harvey #1-12

12-14s-26w Gove,KS

Start Date: 2015.08.17 @ 17:30:00

End Date: 2015.08.17 @ 21:47:30

Job Ticket #: 64714 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.08.20 @ 10:21:28

Carmen Schmitt #1-12
12-14s-26w Gove,KS
Lipp-Harvey #1-12
DST # 4
Marmaton
2015.08.17



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmitt #1-12

12-14s-26w Gove, KS

PO Box 47
Great Bend, KS 67530

Lipp-Harvey #1-12

Job Ticket: 64714

DST#: 4

ATTN: Pat Deenihan

Test Start: 2015.08.17 @ 17:30:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:21:15

Time Test Ended: 21:47:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 81

Interval: 4088.00 ft (KB) To 4150.00 ft (KB) (TVD)

Reference Elevations: 2464.00 ft (KB)

Total Depth: 4150.00 ft (KB) (TVD)

2459.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8957

Inside

Press@RunDepth: 30.37 psig @ 4089.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.17

End Date:

2015.08.17

Last Calib.:

2015.08.17

Start Time:

17:30:05

End Time:

21:47:29

Time On Btm:

2015.08.17 @ 19:20:30

Time Off Btm:

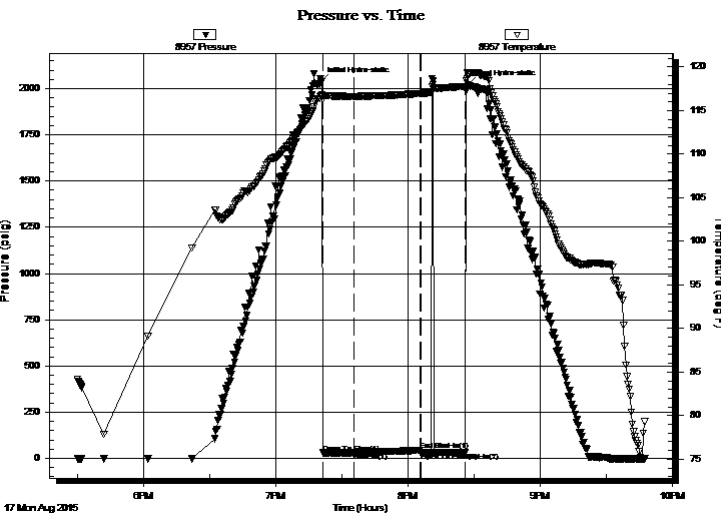
2015.08.17 @ 20:27:15

TEST COMMENT:

IF-Very weak surface blow

IS-No blow

FF-No blow Flush tool Very weak surface blow died in 5min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2035.31	116.74	Initial Hydro-static
1	29.71	116.33	Open To Flow (1)
15	30.37	116.64	Shut-In(1)
45	43.37	116.97	End Shut-In(1)
46	30.67	116.97	Open To Flow (2)
66	30.96	117.78	Shut-In(2)
67	2019.29	118.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Carmen Schmitt #1-12
 PO Box 47
 Great Bend, KS 67530
 ATTN: Pat Deenihan

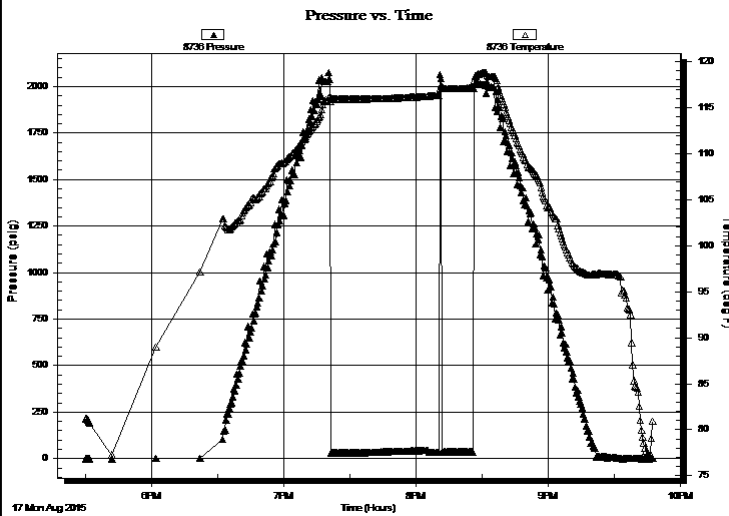
12-14s-26w Gove,KS
Lipp-Harvey #1-12
 Job Ticket: 64714 **DST#: 4**
 Test Start: 2015.08.17 @ 17:30:00

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 19:21:15
 Tester: Brett Dickinson
 Time Test Ended: 21:47:30
 Unit No: 81
Interval: 4088.00 ft (KB) To 4150.00 ft (KB) (TVD)
 Reference Elevations: 2464.00 ft (KB)
 Total Depth: 4150.00 ft (KB) (TVD)
 2459.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 8736 Outside
 Press@RunDepth: psig @ 4089.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.08.17 End Date: 2015.08.17 Last Calib.: 2015.08.17
 Start Time: 17:30:05 End Time: 21:47:29 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-Very weak surface blow
 IS-No blow
 FF-No blow Flush tool Very weak surface blow died in 5min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt #1-12

12-14s-26w Gove,KS

PO Box 47
Great Bend, KS 67530

Lipp-Harvey #1-12

Job Ticket: 64714

DST#: 4

ATTN: Pat Deenihan

Test Start: 2015.08.17 @ 17:30:00

Tool Information

Drill Pipe:	Length: 4055.00 ft	Diameter: 3.80 inches	Volume: 56.88 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	4088.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	82.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			4073.00	
Hydraulic tool	5.00			4078.00	
Packer	5.00			4083.00	20.00 Bottom Of Top Packer
Packer	5.00			4088.00	
Packer - Shale	0.00			4088.00	
Stubb	1.00			4089.00	
Recorder	0.00	8957	Inside	4089.00	
Recorder	0.00	8736	Outside	4089.00	
Perforations	5.00			4094.00	
Change Over Sub	1.00			4095.00	
Drill Pipe	32.00			4127.00	
Change Over Sub	1.00			4128.00	
Perforations	19.00			4147.00	
Bullnose	3.00			4150.00	62.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt #1-12

12-14s-26w Gove,KS

PO Box 47
Great Bend, KS 67530

Lipp-Harvey #1-12

Job Ticket: 64714

DST#: 4

ATTN: Pat Deenihan

Test Start: 2015.08.17 @ 17:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

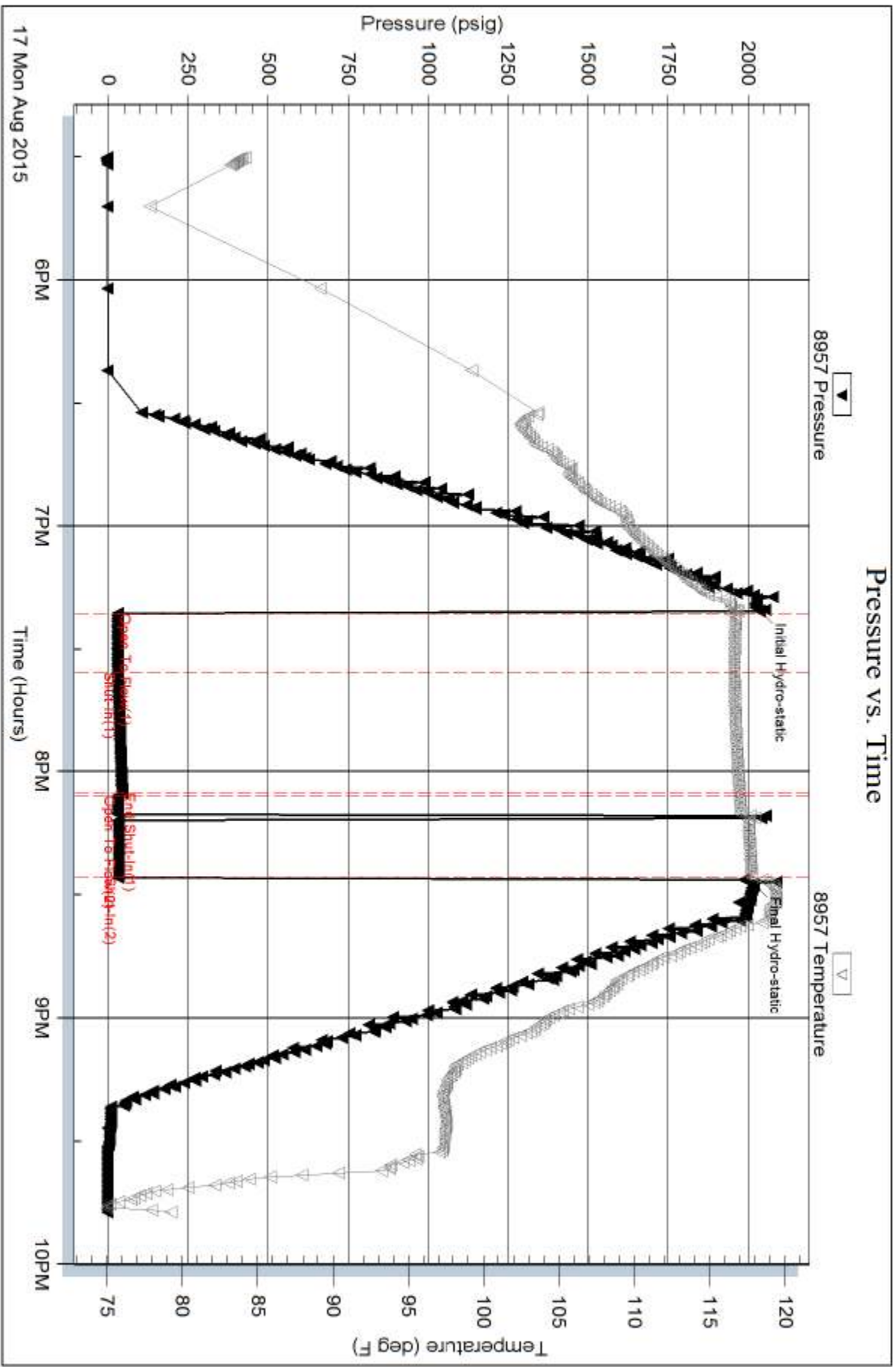
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

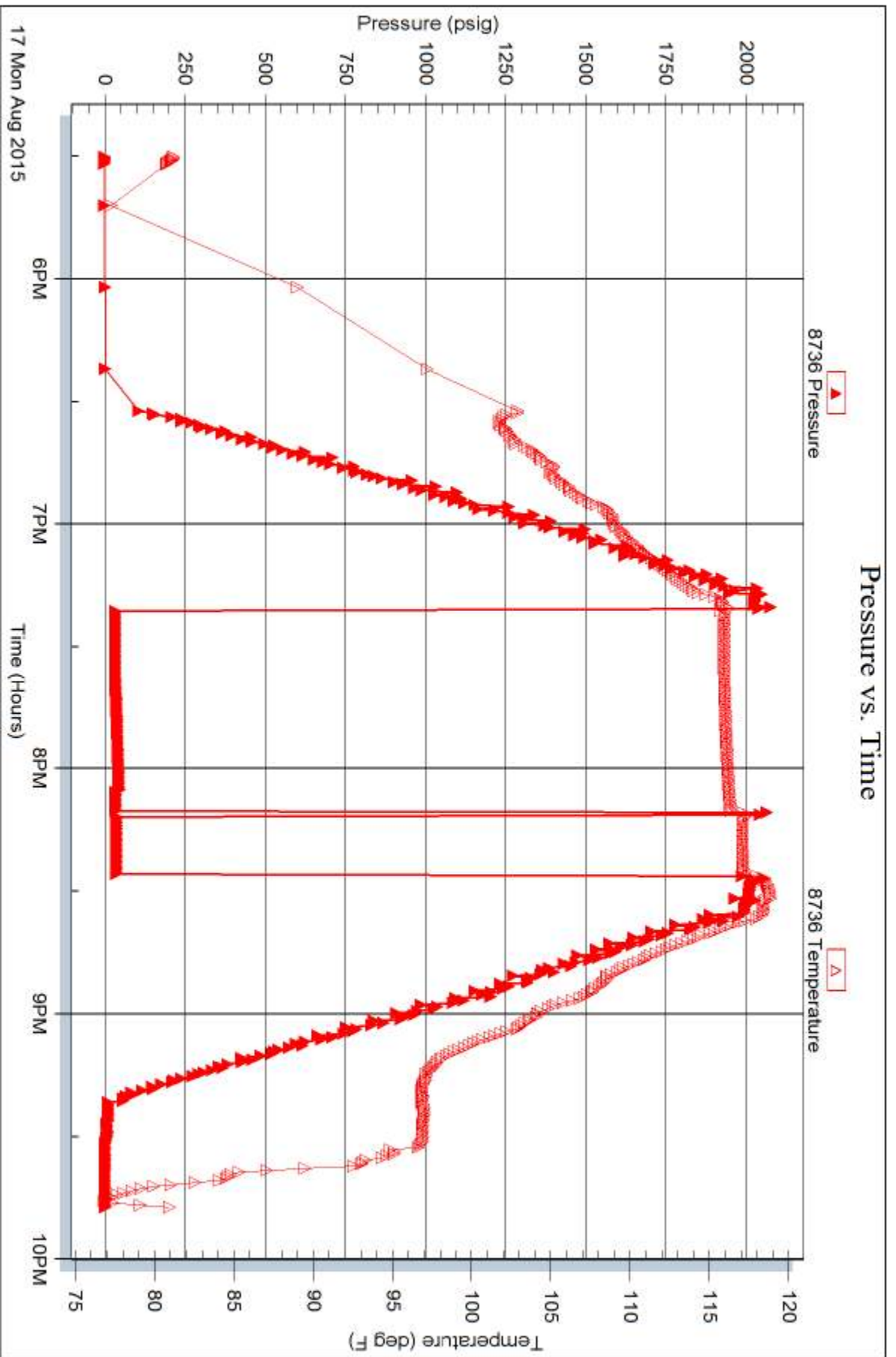


Serial #: 8736

Outside Carmen Schnitt #1-12

Lipp-Harvey #1-12

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 64714

Printed: 2015.08.20 @ 10:21:29



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64710**

Well Name & No. Lipp-Harvey # 1-12 Test No. 1 Date 8-15-15
 Company Carmen Schmitt, Inc. Elevation 2464 KB 2459 GL
 Address PO Box 47 Great Bend KS 67530
 Co. Rep / Geo. Pat Deenihan Rig Martin #16
 Location: Sec. 12 Twp. 14s Rge. 26w Co. Gove State KS

Interval Tested 3890 - 3917 Zone Tested KC "H"
 Anchor Length 27 Drill Pipe Run 3865 Mud Wt. 9.1
 Top Packer Depth 3885 Drill Collars Run 30 Vis 62
 Bottom Packer Depth 3890 Wt. Pipe Run - WL 7.8
 Total Depth 3917 Chlorides 2,800 ppm System LCM 2 #
 Blow Description IF - west surface blow died in 7min
ISI - No blow
FF - No blow flush tool surge No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Mud</u>				

Rec Total 2 BHT 113 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1,945 Test 1050 T-On Location 15:45
 (B) First Initial Flow 12 Jars _____ T-Started 15:45
 (C) First Final Flow 14 Safety Joint _____ T-Open 18:20
 (D) Initial Shut-In 107 Circ Sub _____ T-Pulled ~~18~~ 19:20
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 20:30
 (F) Second Final Flow _____ Mileage 128rT Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic _____ Straddle _____ Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 15 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1428
 Final Flow 15 Accessibility _____ MP/DST Disc't _____
 Final Shut-In _____ Sub Total 1428

Approved By _____ Our Representative Pat Deenihan

TriLOBITE TESTING INC. shall not be liable for damaged of any kind of 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 statements or opinion concerning the results 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64712**

Well Name & No. Lipp - Harvey #1-12 Test No. 2 Date 8-16-15
 Company Carmen Schmitt, Inc. Elevation 2464 KB 2459 GL
 Address PO Box 47 Greatbend KS 67530
 Co. Rep / Geo. Pat Deenihan Rig Martin #16
 Location: Sec. 12 Twp. 14s Rge. 26w Co. Gove State KS

Interval Tested ~~3900~~ 3967-3994 Zone Tested KC "K"
 Anchor Length 27 Drill Pipe Run 3925 Mud Wt. 9.2
 Top Packer Depth 3962 Drill Collars Run 30 Vis 64
 Bottom Packer Depth 3967 Wt. Pipe Run — WL 7.2
 Total Depth 3994 Chlorides 2,800 ppm System LCM 2#

Blow Description IF - POB in 15 min
ISI - No blow
FF - BOB in 7 min
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>115</u>	<u>SGMCO</u>	<u>15</u>	<u>55</u>	<u>30</u>	
<u>25</u>	<u>SGO</u>	<u>10</u>	<u>90</u>		
<u>—</u>	<u>5809 G2P</u>				
<u>—</u>					
<u>—</u>					

Rec Total 140 BHT 121 Gravity 35 API RW @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1,993</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>9:00</u>
(B) First Initial Flow <u>19</u>	<input type="checkbox"/> Jars <u>—</u>	T-Started <u>9:00</u>
(C) First Final Flow <u>35</u>	<input type="checkbox"/> Safety Joint <u>—</u>	T-Open <u>10:55</u>
(D) Initial Shut-In <u>1,258</u>	<input type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>13:25</u>
(E) Second Initial Flow <u>32</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>15:15</u>
(F) Second Final Flow <u>67</u>	<input checked="" type="checkbox"/> Mileage <u>128RT</u>	Comments <u>—</u>
(G) Final Shut-In <u>1,244</u>	<input type="checkbox"/> Sampler <u>—</u>	
(H) Final Hydrostatic <u>1,943</u>	<input type="checkbox"/> Straddle <u>—</u>	
Initial Open <u>15</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	<input type="checkbox"/> Extra Copies <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby <u>—</u>	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility <u>—</u>	Total <u>1428</u>
	Sub Total <u>1428</u>	MP/DST Disc't <u>—</u>

Approved By _____ Our Representative Beth D... [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of 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 statements or opinion concerning the results 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64713**

Well Name & No. Lipp - Harvey #1-12 Test No. 3 Date 8-16-15
 Company Carmen Schmitt, Inc. Elevation 2464 KB 2459 GL
 Address PO Box 47 Great Bend KS 67530
 Co. Rep / Geo. Pat Deenihan Rig Murfin #16
 Location: Sec. 12 Twp. 14s Rge. 26w Co. Gove State KS

Interval Tested 3996 - 4030 Zone Tested KC" L"
 Anchor Length 34 Drill Pipe Run 3960 Mud Wt. 9.2
 Top Packer Depth 3991 Drill Collars Run 30 Vis 64
 Bottom Packer Depth 3996 Wt. Pipe Run - WL 7.2
 Total Depth 4030 Chlorides 2,800 ppm System LCM 2#
 Blow Description IF - BOB in 2min
ISF - BOB in 7min
FF - BOB in 3 1/2 min
FST - BOB in 9min

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>60CM</u>	<u>30</u>	<u>30</u>	<u>40</u>	
<u>185</u>	<u>65MCO</u>	<u>30</u>	<u>60</u>	<u>10</u>	
	<u>60</u>	<u>40</u>	<u>60</u>		
	<u>1550 FT GIP</u>				

Rec Total 650 BHT 127 Gravity 34 API RW @ ° F Chlorides ppm
 (A) Initial Hydrostatic 1,994 Test 1150 T-On Location 22:05
 (B) First Initial Flow 54 Jars T-Started 22:15
 (C) First Final Flow 105 Safety Joint T-Open 00:06
 (D) Initial Shut-In 1,265 Circ Sub T-Pulled 2:21
 (E) Second Initial Flow 117 Hourly Standby T-Out 4:33
 (F) Second Final Flow 238 Mileage 128.5 Comments _____
 (G) Final Shut-In 1,242 Sampler _____
 (H) Final Hydrostatic 1,965 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total _____
 Sub Total 1528 MP/DST Disc't _____

Approved By _____ Our Representative Beth Deenihan
 Trilobite Testing Inc. shall not be liable for damaged of any kind of 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 statements or opinion concerning the results 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64714**

Well Name & No. Lipp-Harvey # 1-12 Test No. 4 Date 8-17-15
 Company Carmen Schmitt, Inc. Elevation 2464 KB 2459 GL
 Address PO Box 47 Great Bend KS 67530
 Co. Rep / Geo. Pat Deenihan Rig Marfin #16
 Location: Sec. 12 Twp. 14s Rge. 26w Co. Gove State KS

Interval Tested 4088 - 4150 Zone Tested Marmaton
 Anchor Length 62 Drill Pipe Run 4055 Mud Wt. 9.2
 Top Packer Depth 4083 Drill Collars Run 30 Vis 64
 Bottom Packer Depth 4088 Wt. Pipe Run - WL 7.2
 Total Depth 4150 Chlorides 2,800 ppm System LCM 2#
 Blow Description IF - weak surface blow
ISI - No blow
FF - No blow flush tool very weak surface blow died in 5min

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 117 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2,035 Test 1150 T-On Location 17:30
 (B) First Initial Flow 30 Jars _____ T-Started 17:30
 (C) First Final Flow 30 Safety Joint _____ T-Open 19:00
 (D) Initial Shut-In 43 Circ Sub _____ T-Pulled 20:05
 (E) Second Initial Flow 31 Hourly Standby _____ T-Out 21:30
 (F) Second Final Flow _____ Mileage 128rT Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 2,019 Straddle _____ Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 15 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1528
 Final Flow 20 Accessibility _____ MP/DST Disc't _____
 Final Shut-In _____ Sub Total 1528

Approved By _____ Our Representative Butt Deenihan

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**Computer Processed
Interpretation**

Company CARMEN SCHMITT, INC.
Well LIPP-HARVEY NO. 1-12
Field WILDCAT
County GOVE
State KANSAS

Company CARMEN SCHMITT, INC.
Well LIPP-HARVEY NO. 1-12
Field WILDCAT
County GOVE State KANSAS

Location: API #: 15-063-22,263-00-00

SEC 12 TWP 14S RGE 26W
330' FSL & 2,450' FEL

Permanent Datum GROUND LEVEL Elevation 2459'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Other Services
DIL/CNL/CDL
MEL

Elevation
K.B. 2464'
D.F. N/A
G.L. 2459'

Date Recorded 8/19/2015

Depth Logger 4440'

Curve Definitions

SW	Water Saturation
SXO	Water Saturation In The Flushed Zone
VCL	Volume Of Clay
PHIE	Density - Neutron Crossplot Shale Corrected
BVW	Bulk Volume Water
BVWSXO	Bulk Volume Water In Flushed Zone
DCAL	Caliper
SPC	SP Corrected For Baseline
DGA	Apparent Grain Density
Payflag	If: PHIE> 2, VCL< 40, SPC> -10, SW< 50 & DCAL< 11
Recorded By	J. LONG
Witnessed By	PAT DEENIHAN
Analysis By	TIM MARTIN

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
COLLYER EXIT, 13 SOUTH TO U ROAD, 2 1/4 WEST, NORTH INTO

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

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

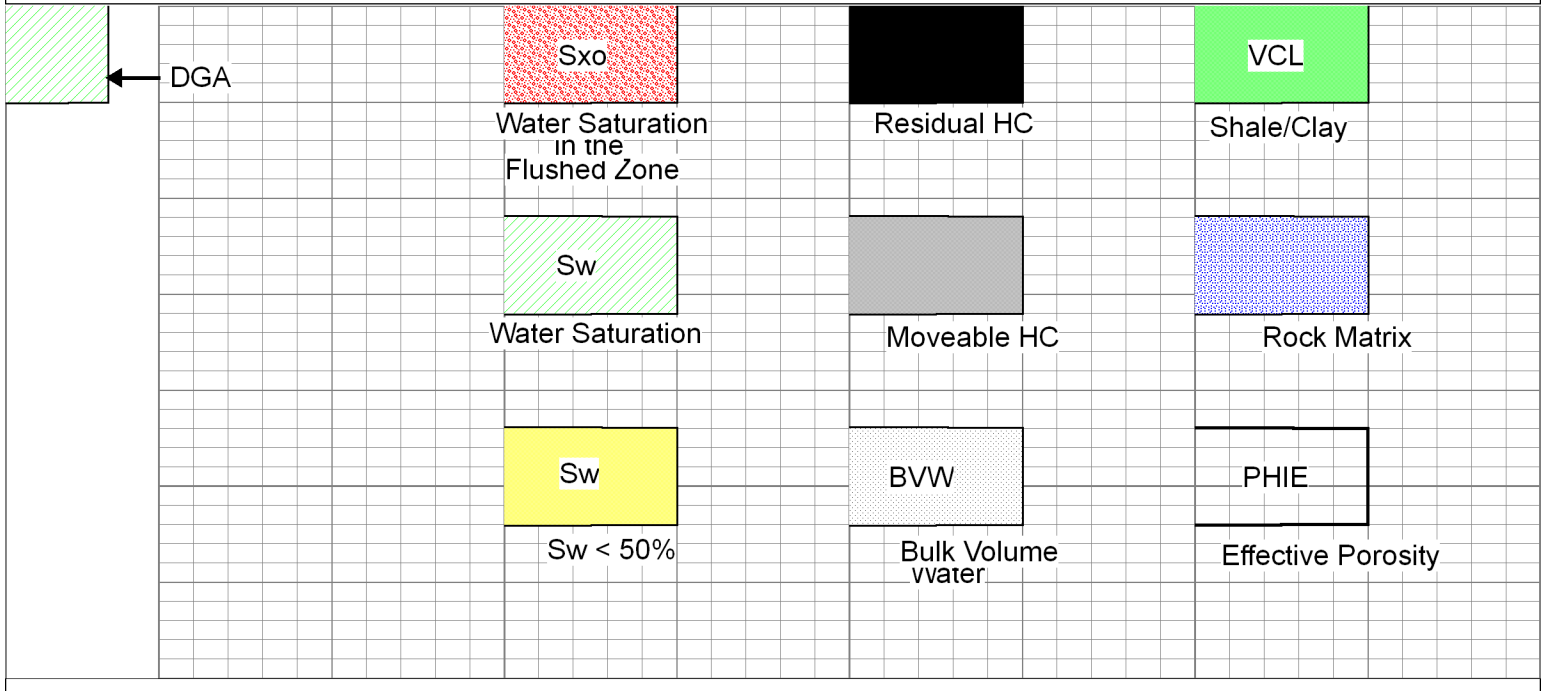
Your Pioneer Energy Services Crew

Engineer: J. LONG
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

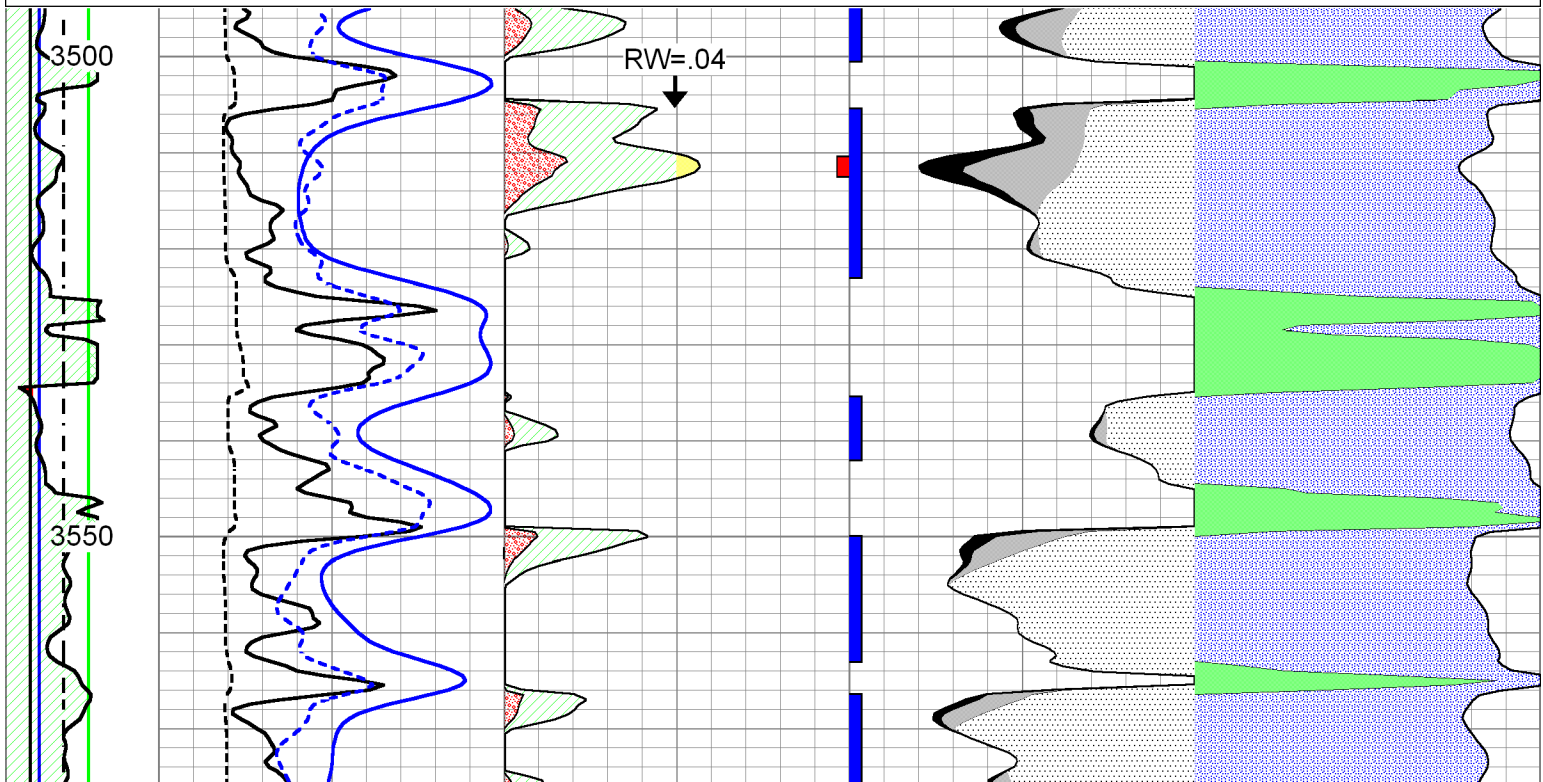
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Secondary Witness:
Secondary Witness:
Secondary Witness:

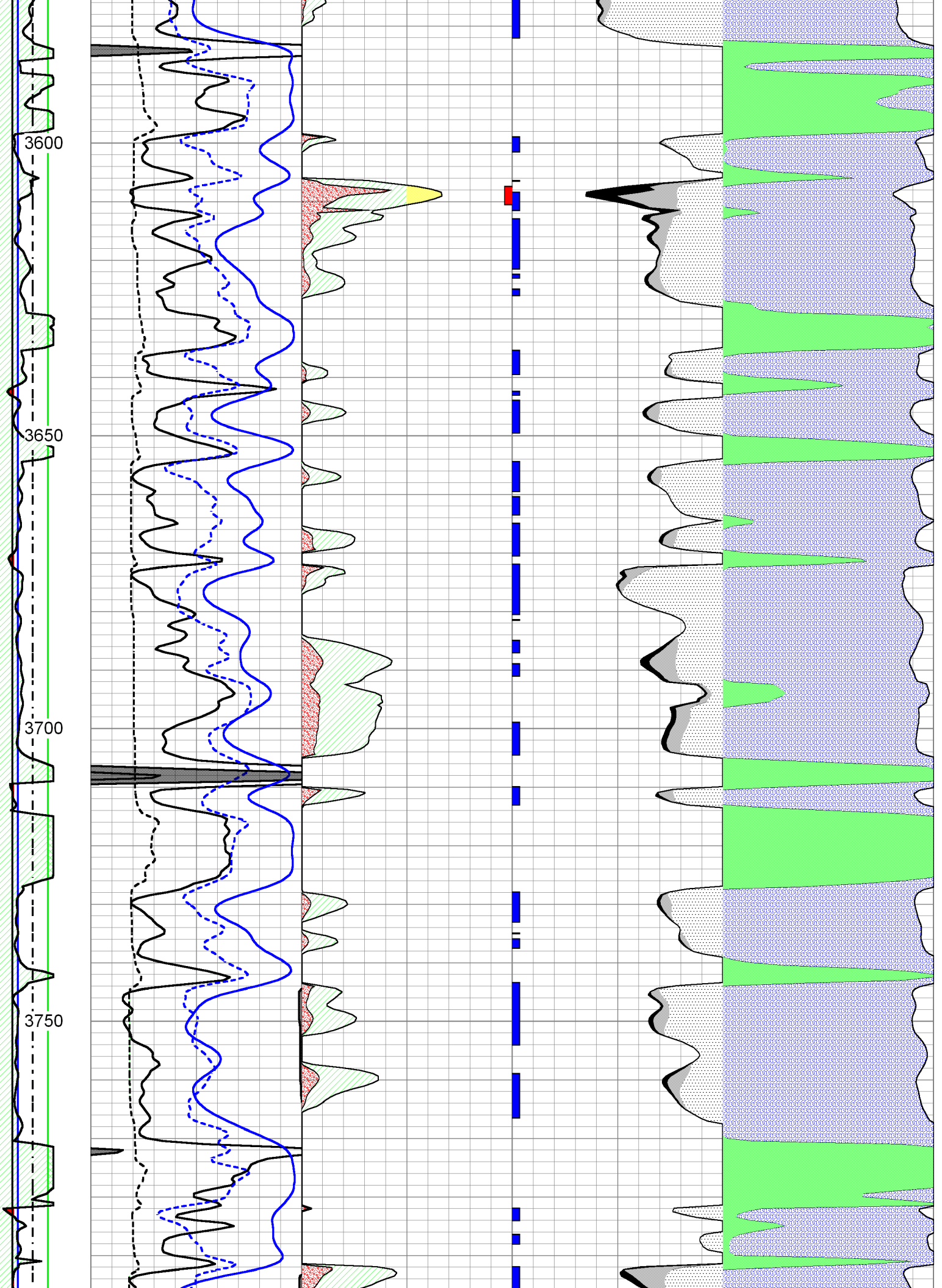
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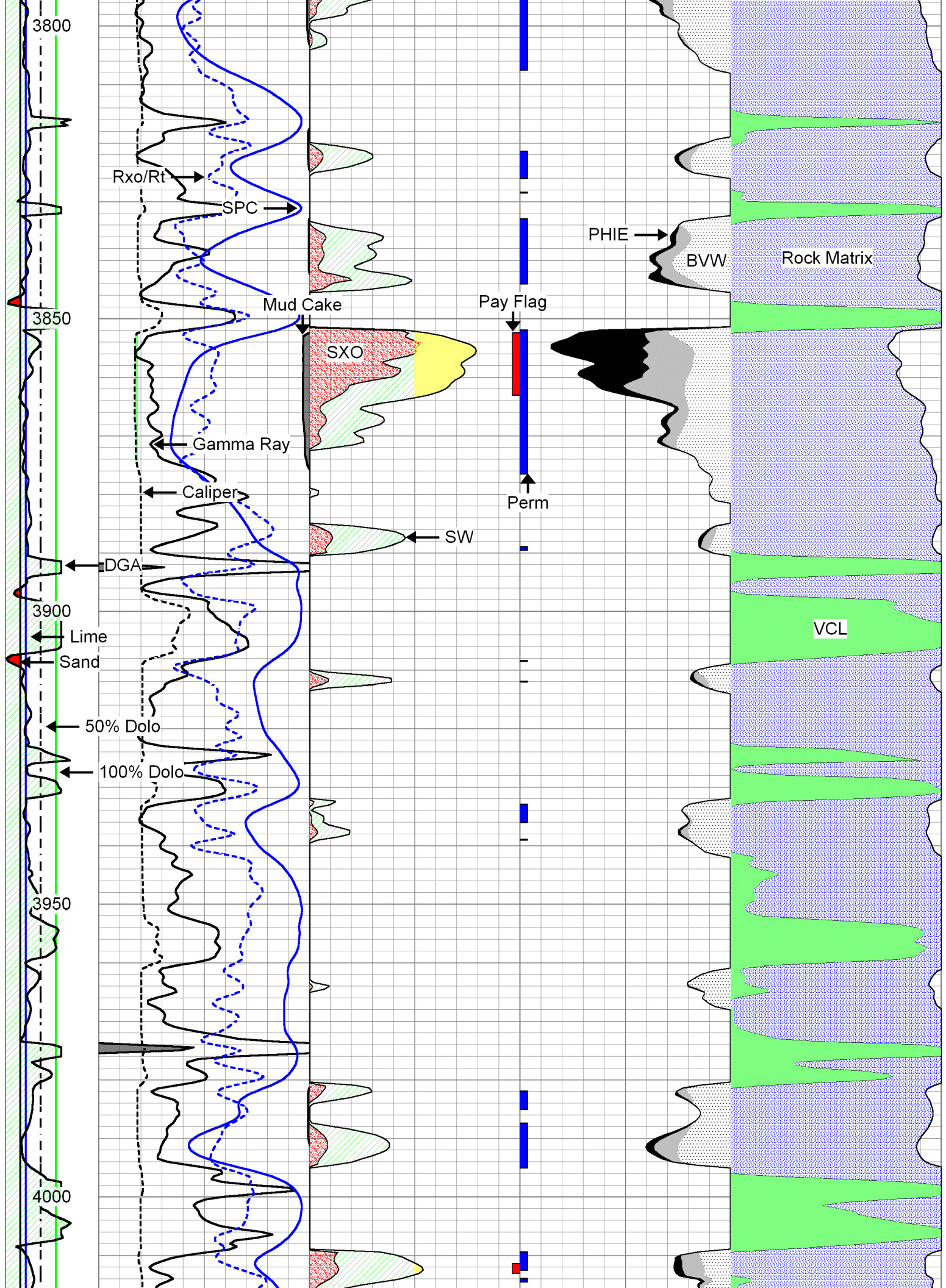


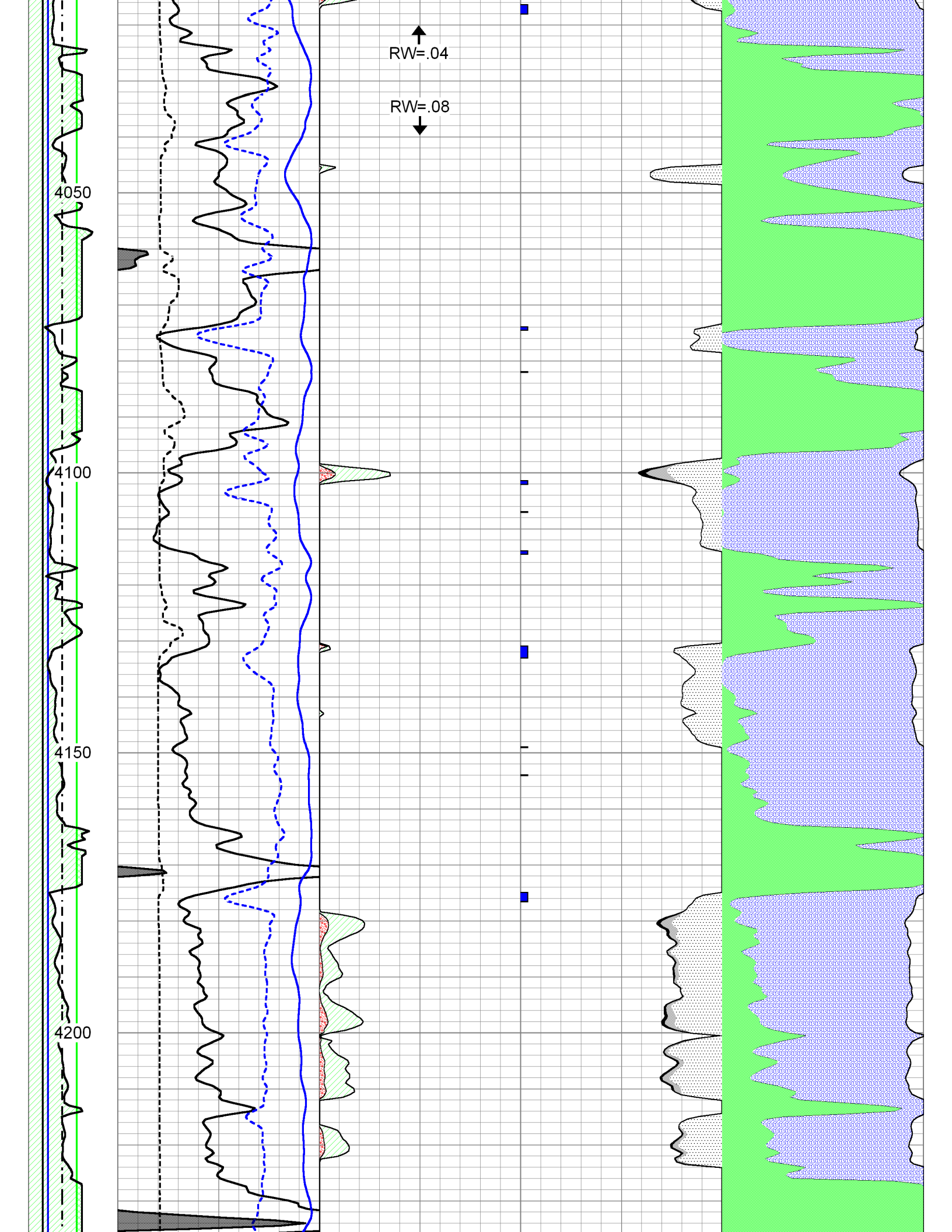
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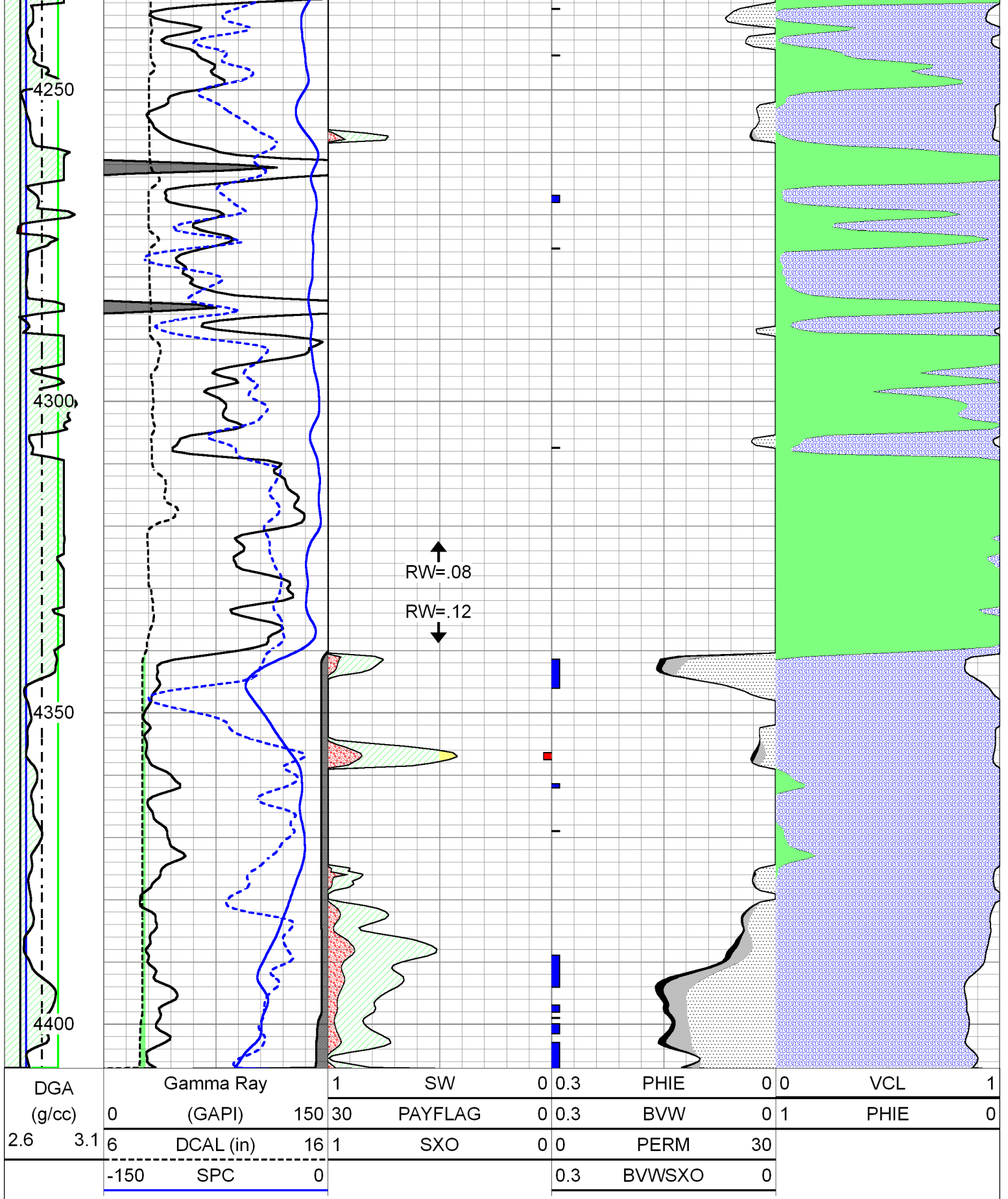
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2.6 3.1	6	DCAL (in)	16	1	SXO	0	0	PERM	30	
	-150	SPC	0			0.3	BVWSXO	0		











↑ RW=.08
↓ RW=.12



DUAL INDUCTION LOG

Company CARMEN SCHMITT, INC.
 Well LIPP-HARVEY NO. 1-12
 Field WILDCAT
 County GOVE
 State KANSAS

Company CARMEN SCHMITT, INC.
 Well LIPP-HARVEY NO. 1-12
 Field WILDCAT
 County GOVE State KANSAS

Location: API #: 15-063-22,263-00-00
 330' FSL & 2,450' FEL
 SEC 12 TWP 14S RGE 26W
 Permanent Datum GROUND LEVEL Elevation 2459'
 Log Measured From KELLY BUSHING
 Drilling Measured From KELLY BUSHING
 Other Services
 CNL/CDL
 MEL
 Elevation
 K.B. 2464'
 D.F. N/A
 G.L. 2459'

Date	8/19/2015
Run Number	ONE
Depth Driller	4440'
Depth Logger	4440'
Bottom Logged Interval	4439'
Top Log Interval	200'
Casing Driller	8.625" @ 216'
Casing Logger	213'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	2900
Density / Viscosity	9.3 60
pH / Fluid Loss	10.5 7.2
Source of Sample	Flowline
Rm @ Meas. Temp	.84 @ 78
Rmt @ Meas. Temp	.63 @ 78
Rmc @ Meas. Temp	1.13 @ 78
Source of Rmf / Rmc	Charts
Rm @ BHT	.54 @ 120
Operating Rig Time	3 1/2 HOURS
Max Rec. Temp. F	120
Equipment Number	108
Location	Hays
Recorded By	J. LONG
Witnessed By	PAT DEENIHAN

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
 COLLYER EXIT, 13 SOUTH TO U ROAD, 2 1/4 WEST, NORTH INTO

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

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

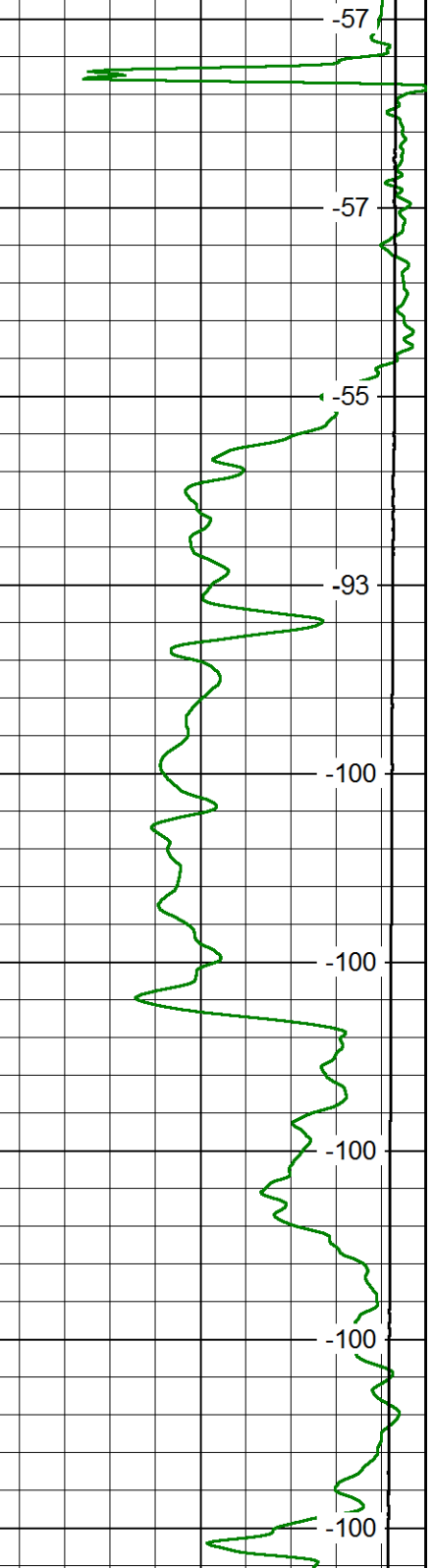
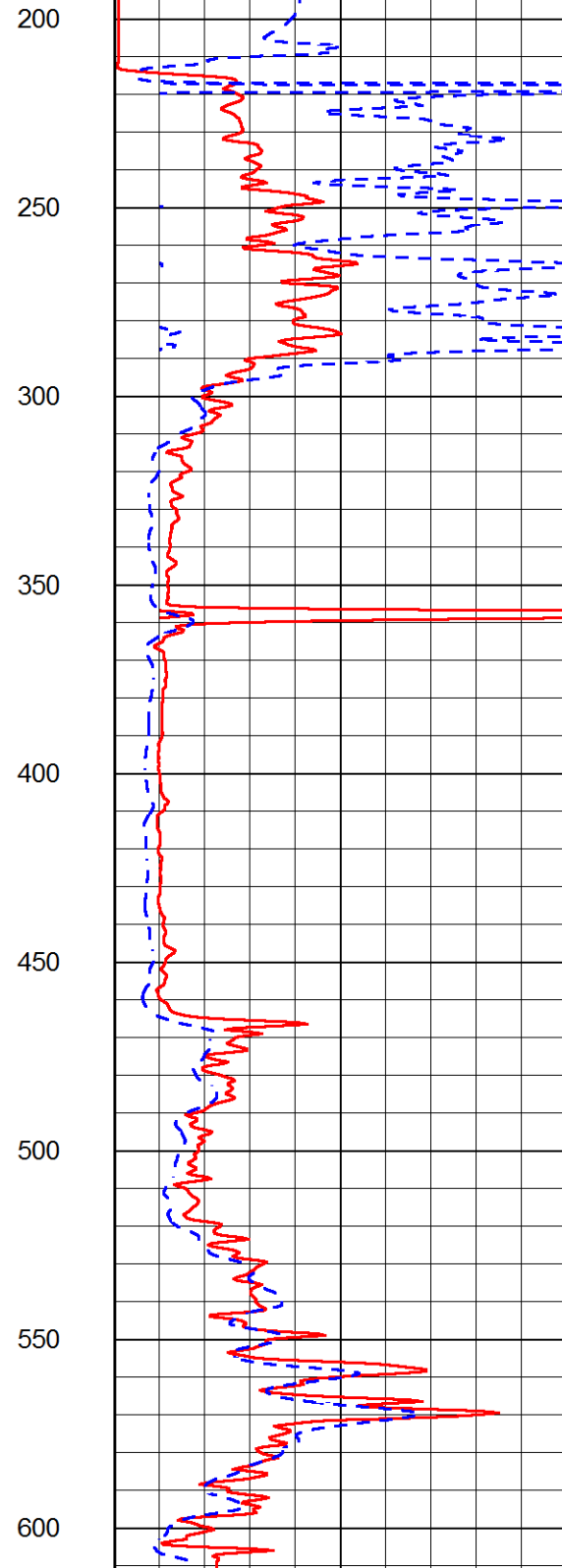
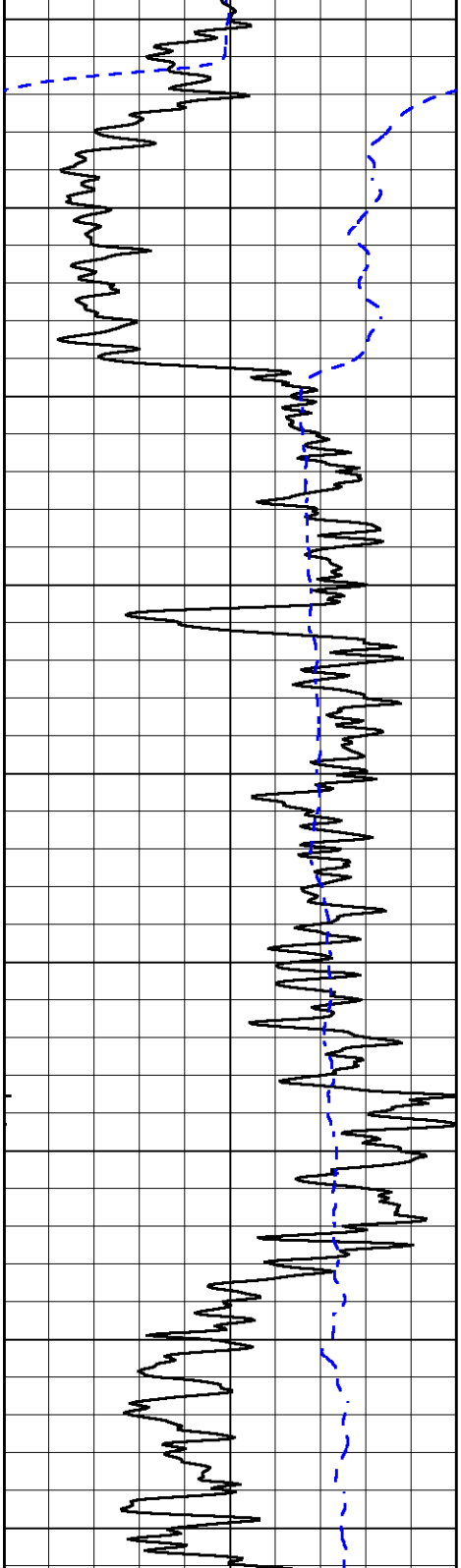
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Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

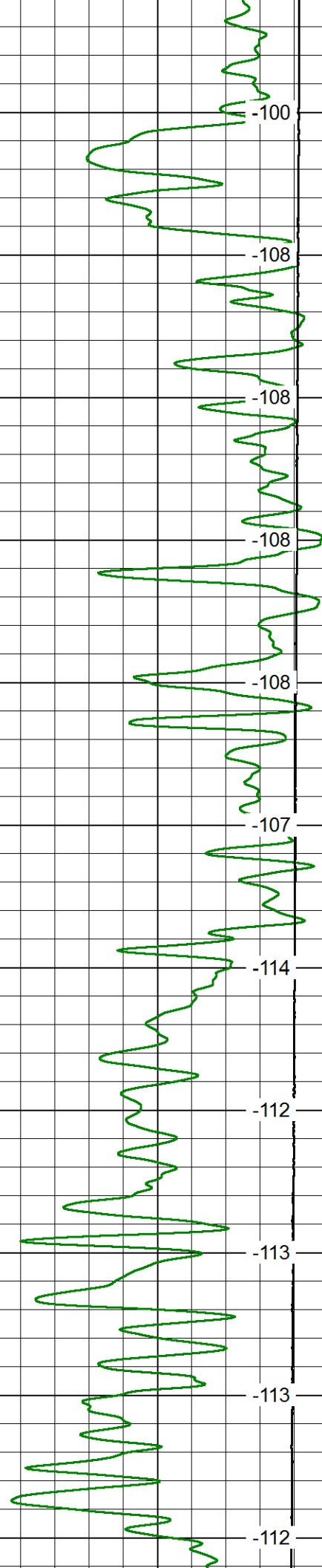
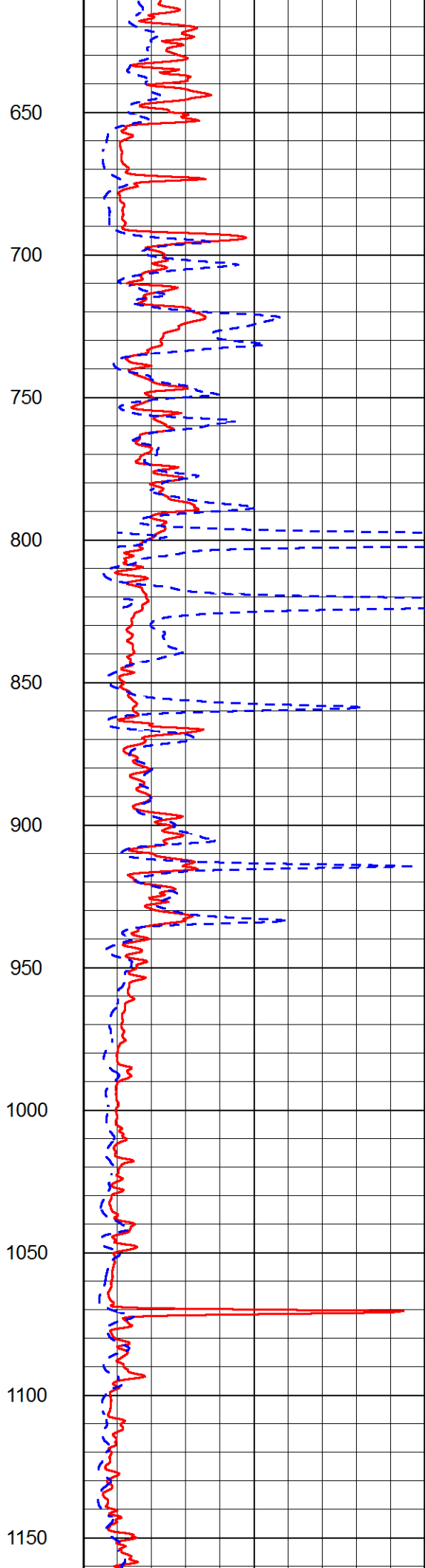
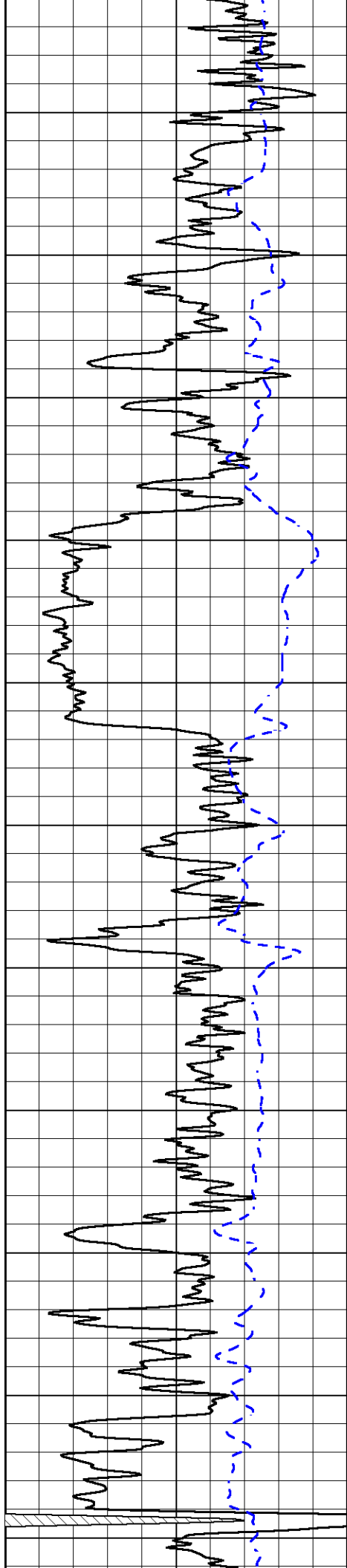
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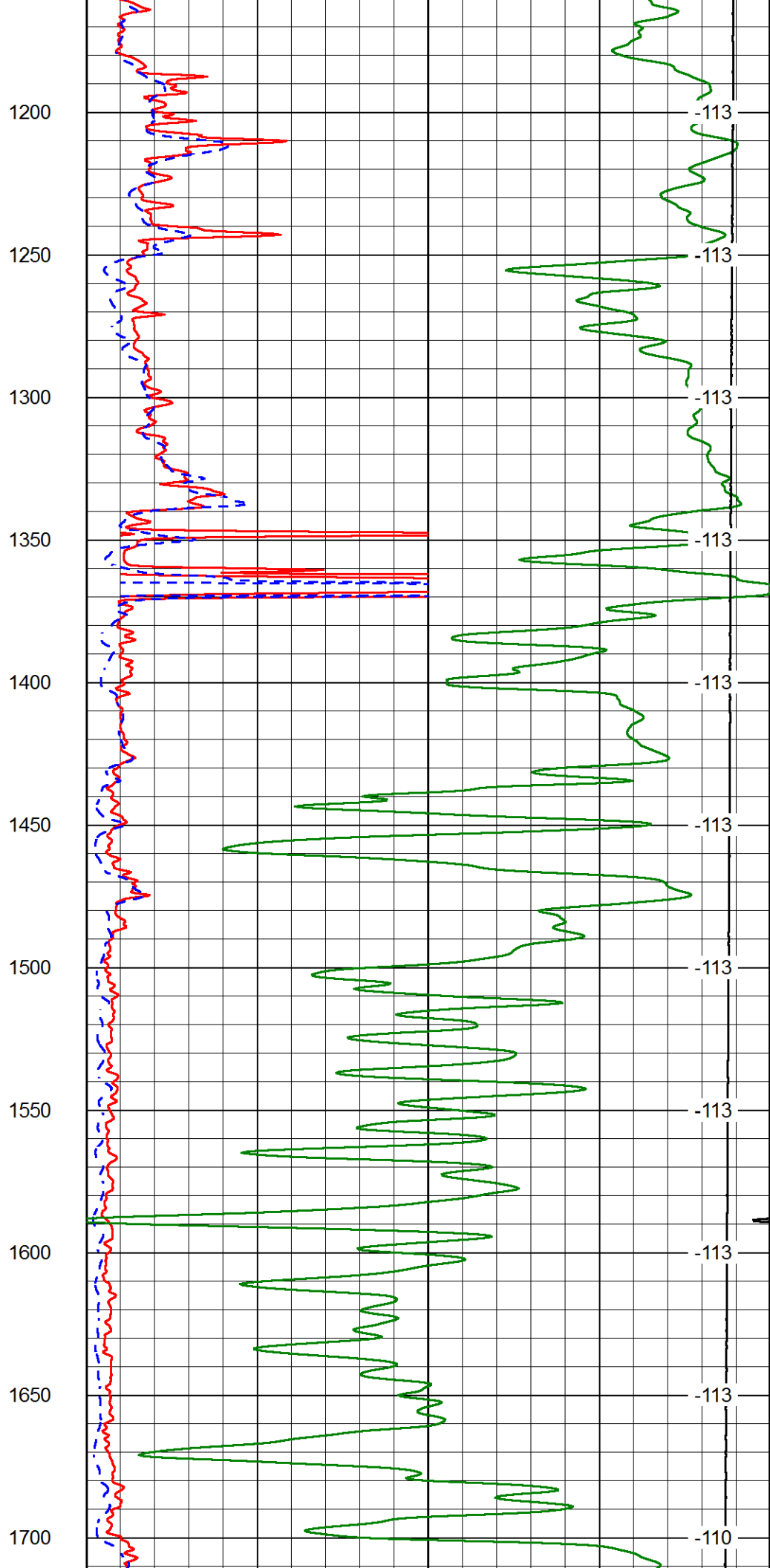
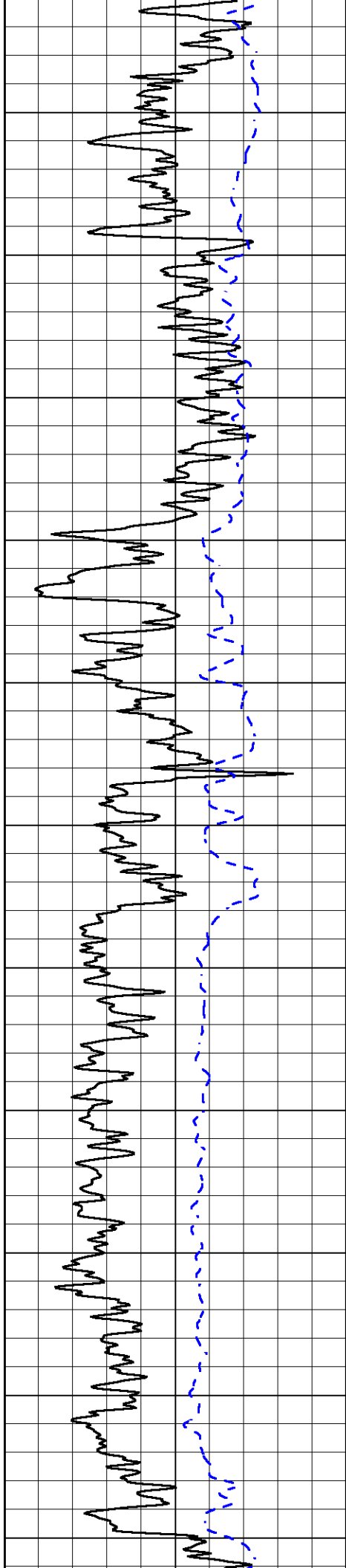
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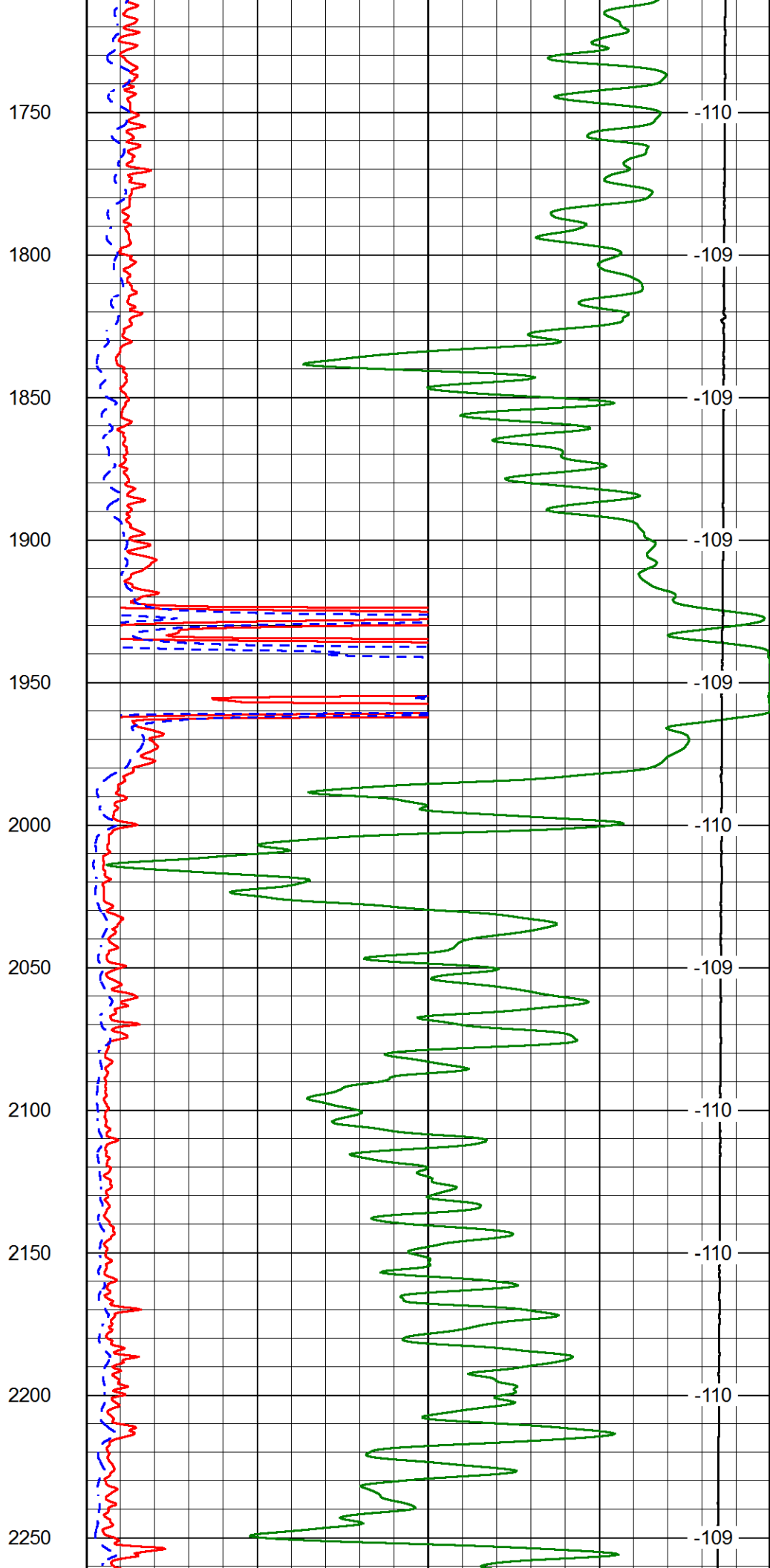
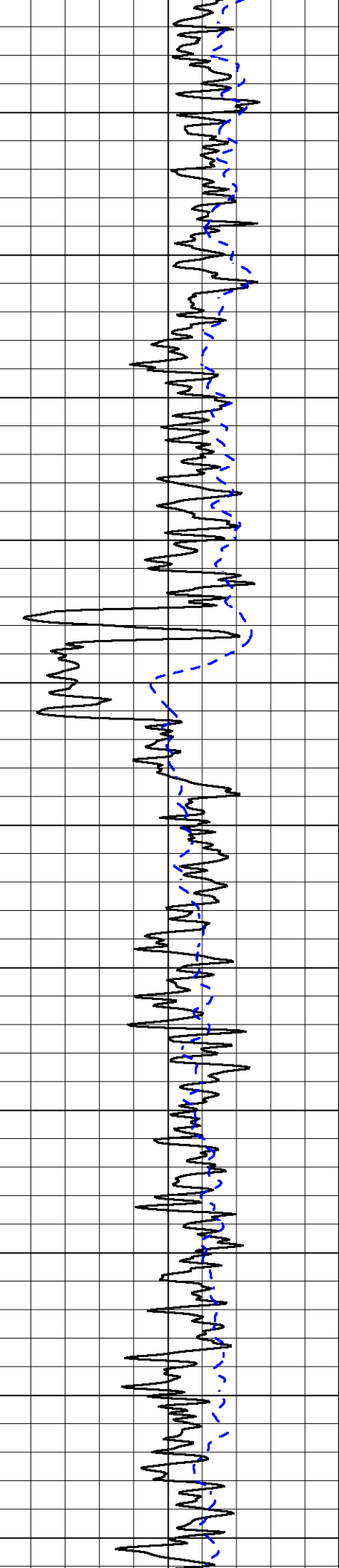
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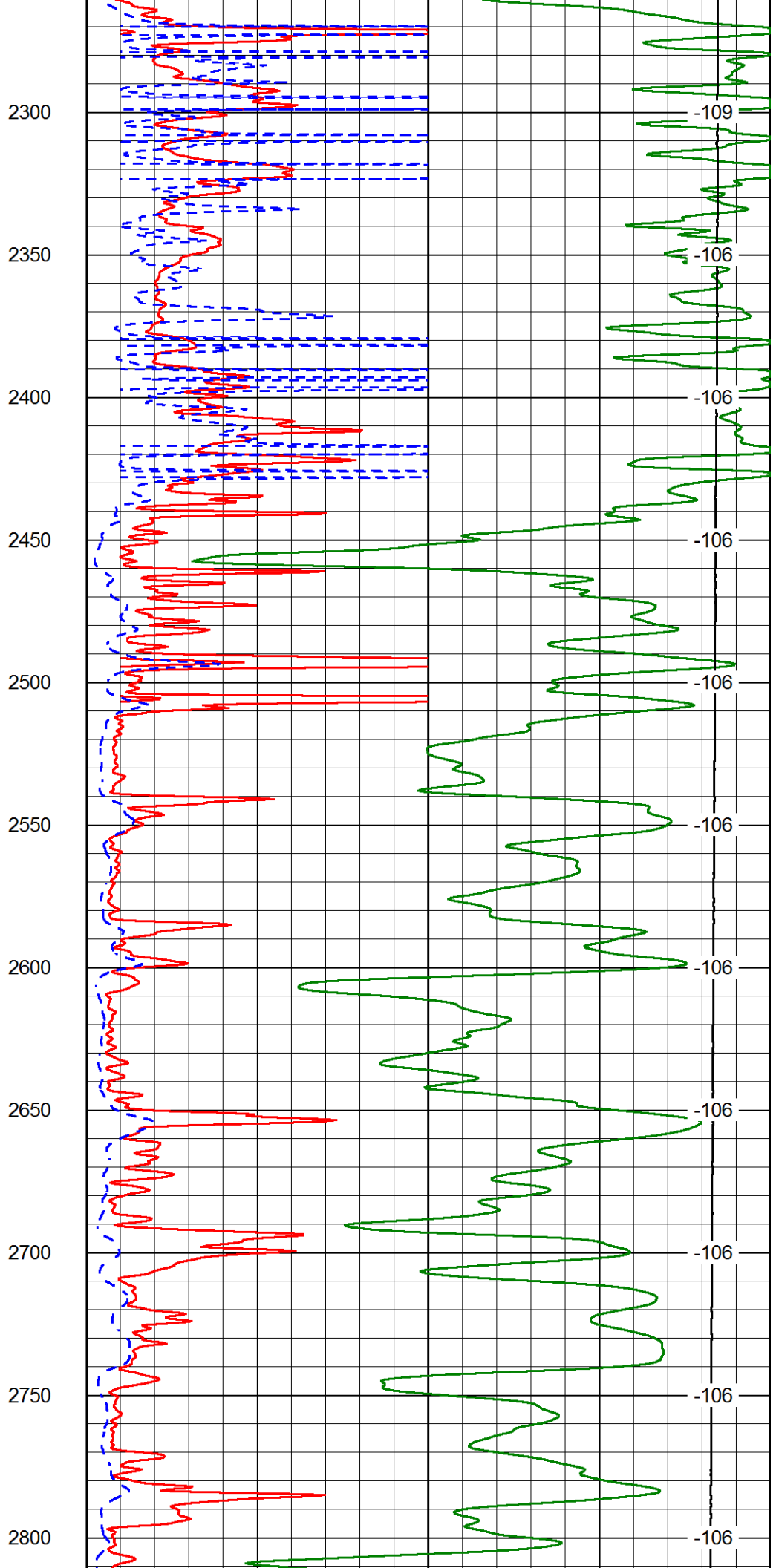
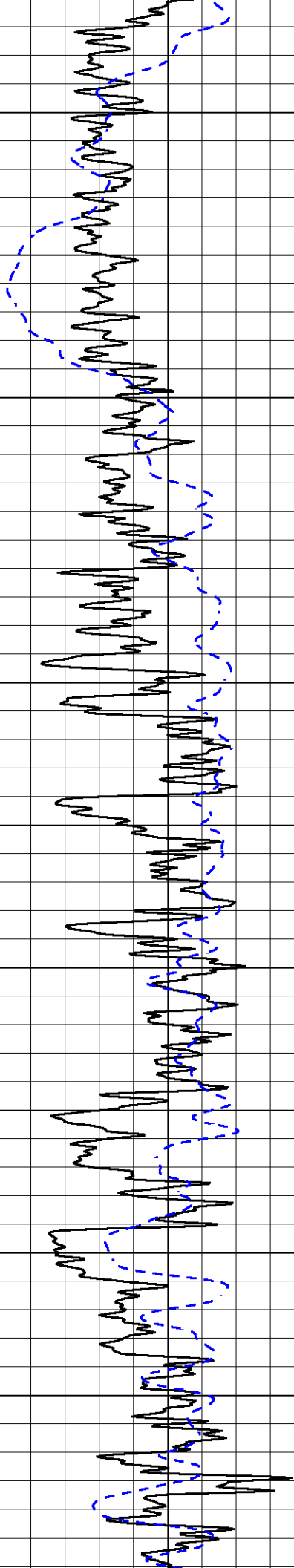
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 50 (Ohm-m) 500
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 LSPD (ft/min)

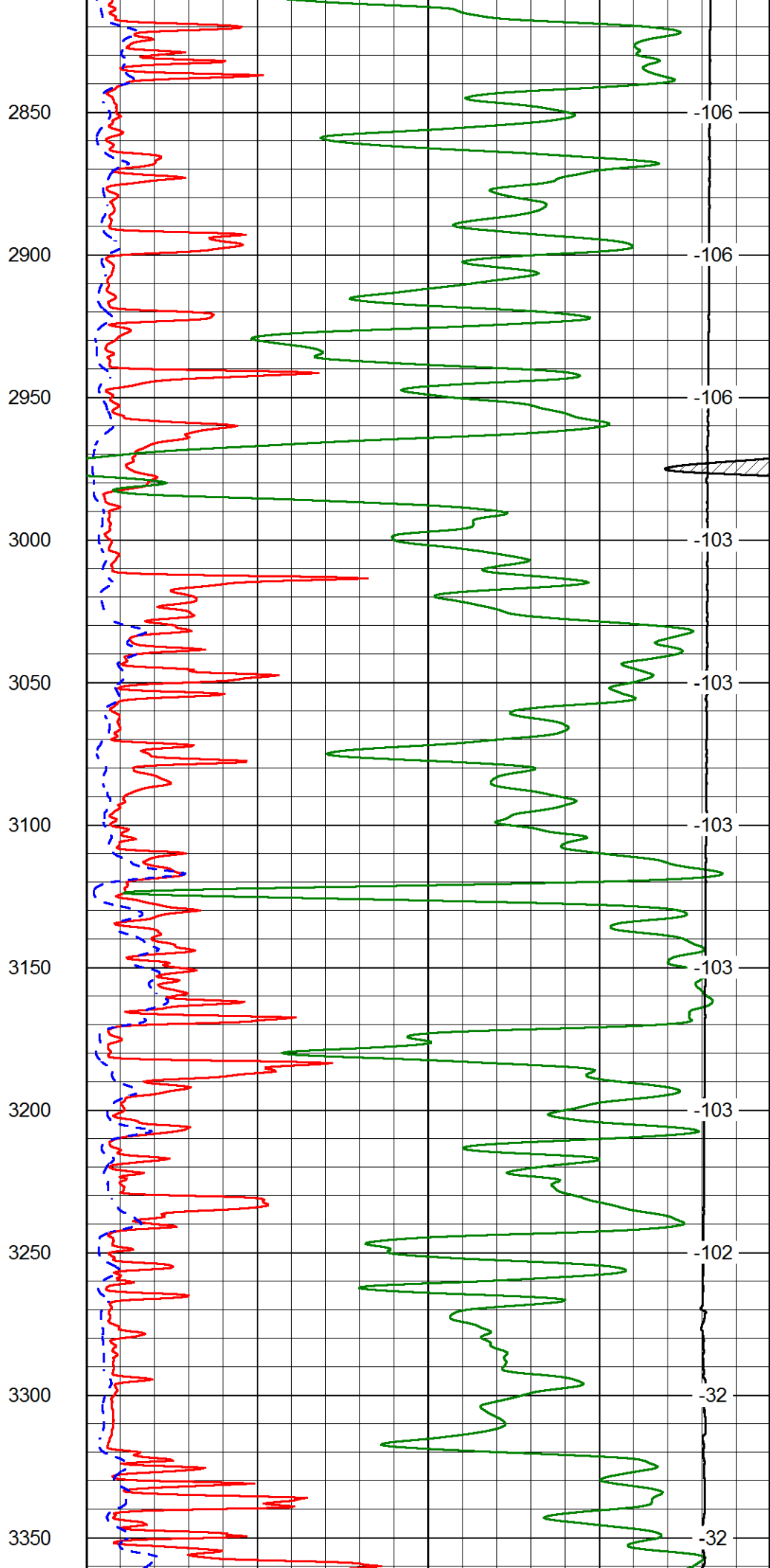
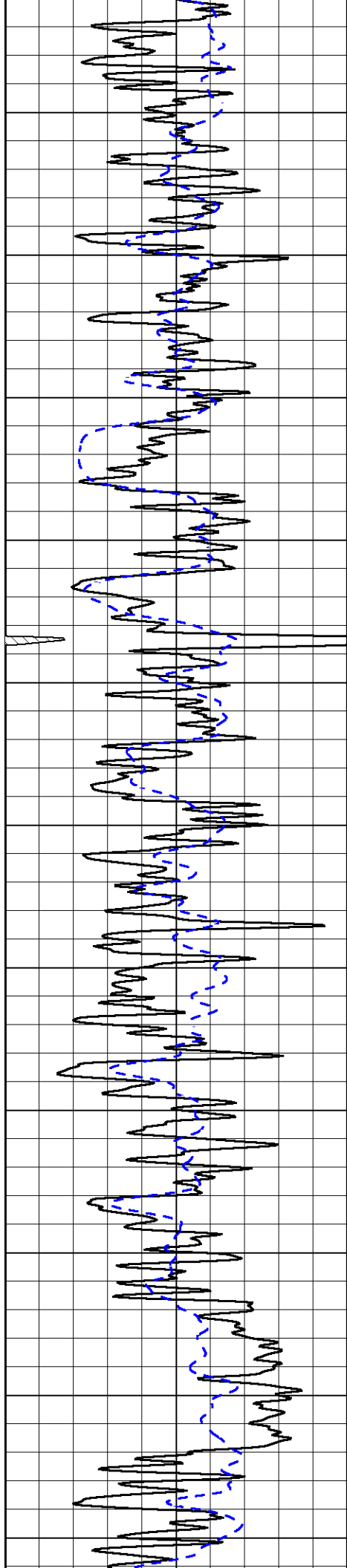


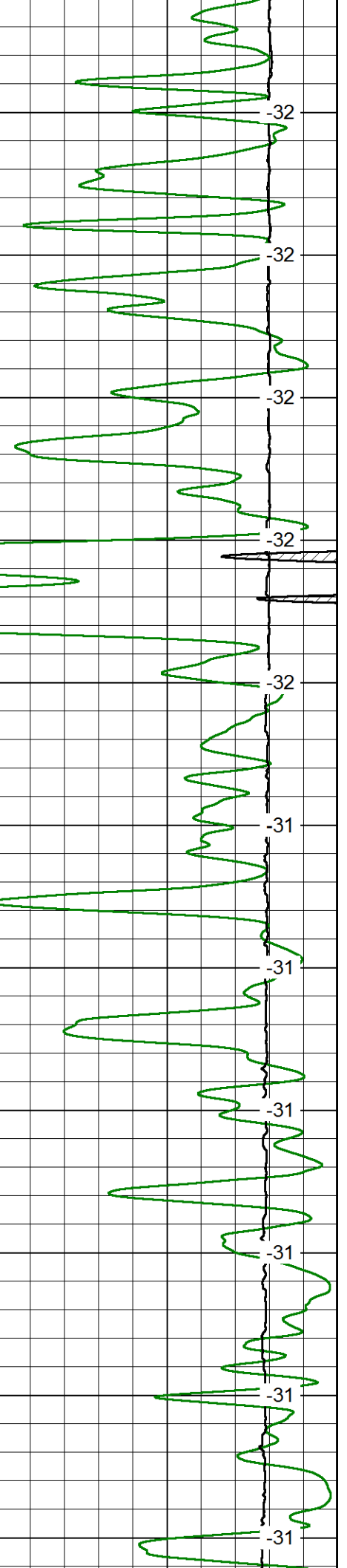
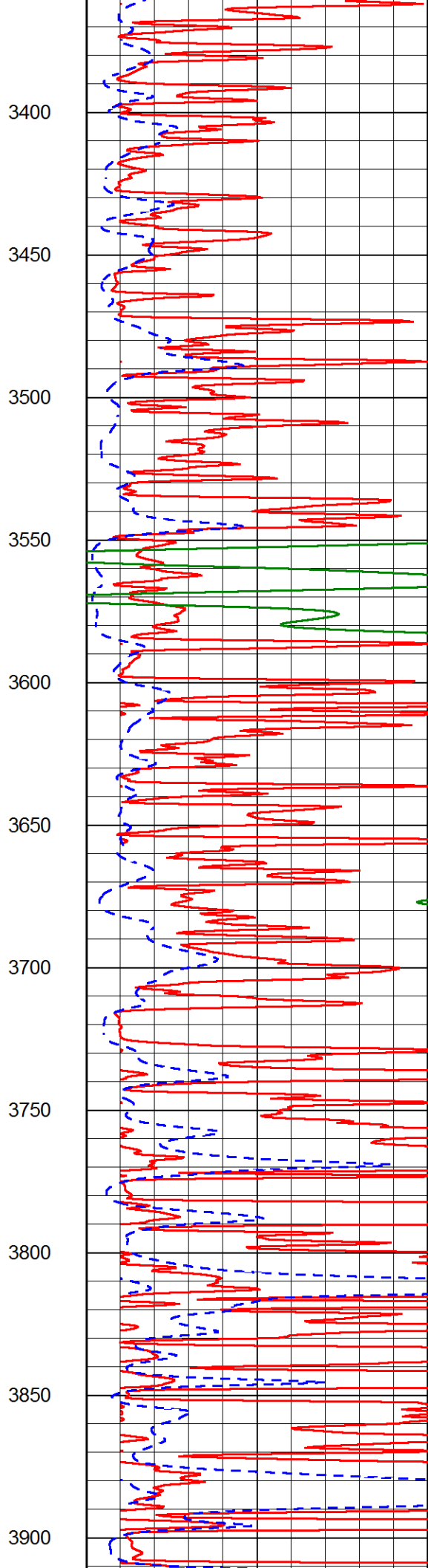
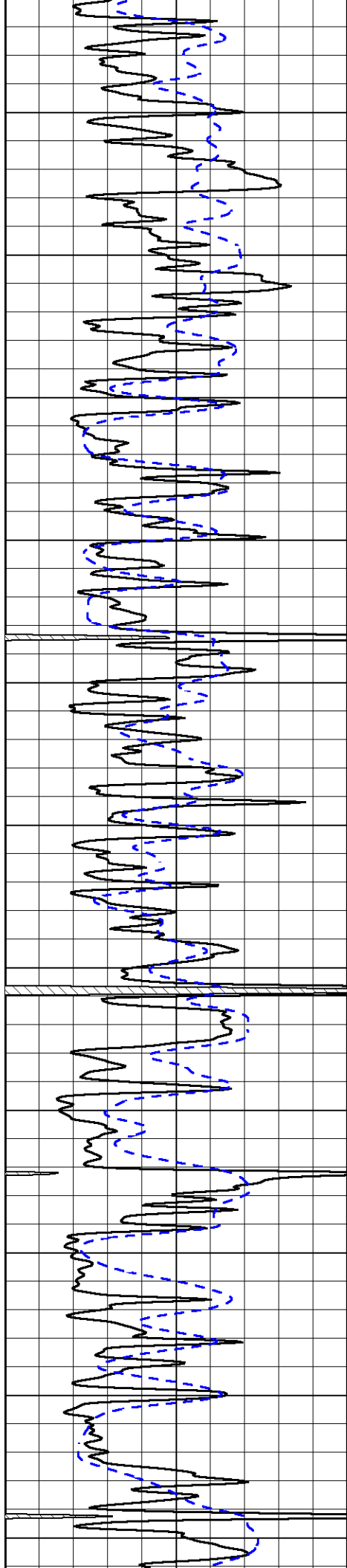


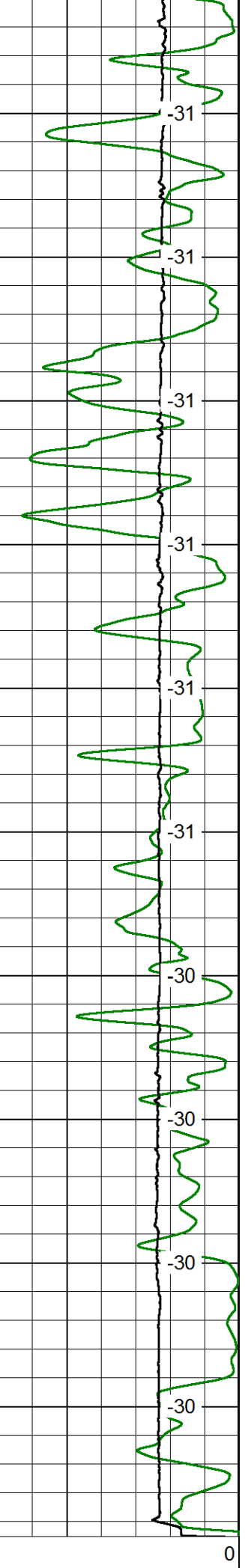
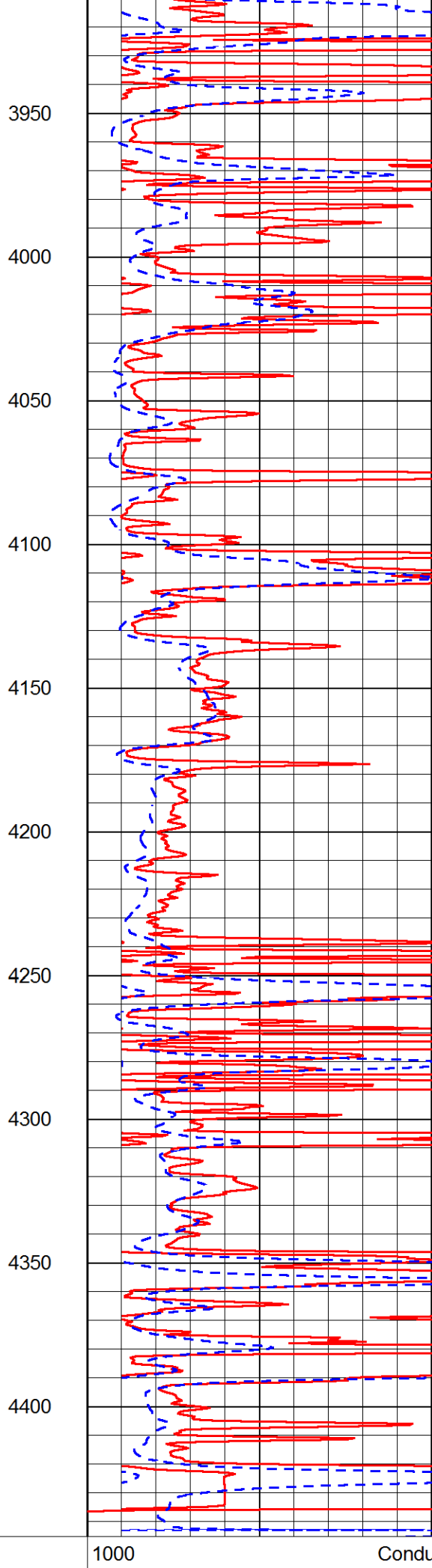
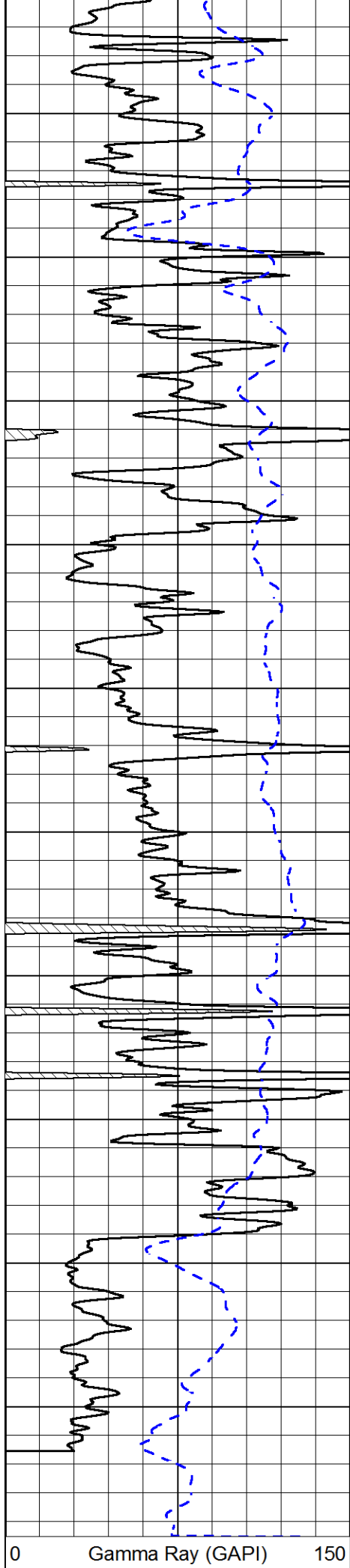












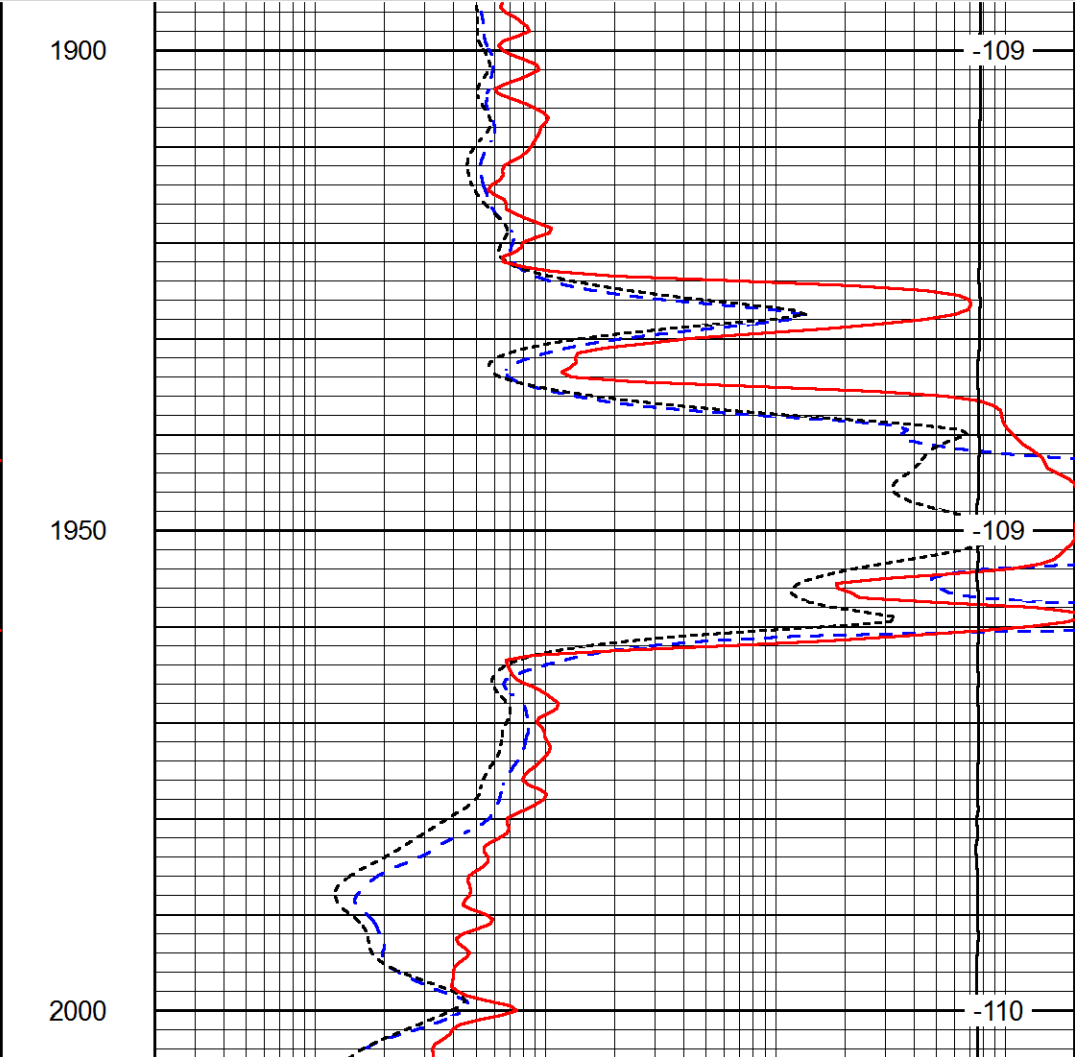
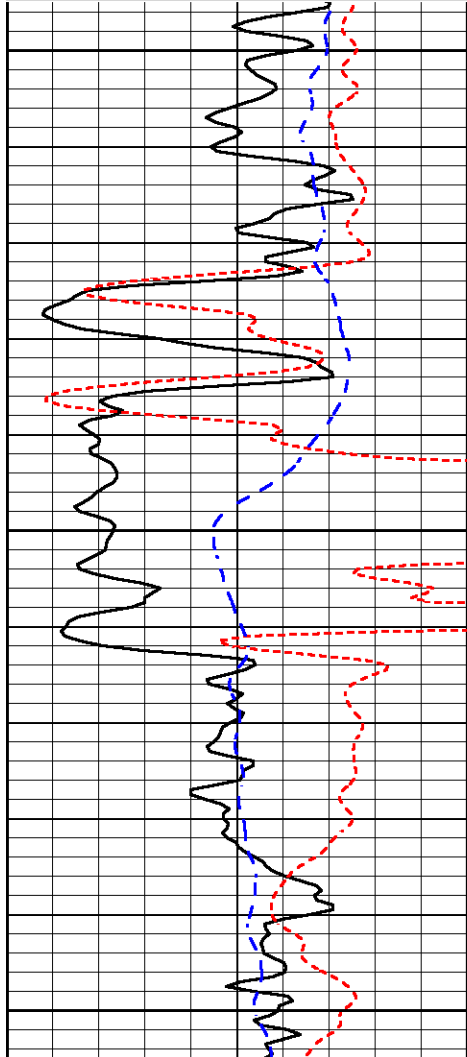
-200	SP (mV)	0
------	---------	---

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

Database File: carmenschmitt_lipp-harvey_1-12hd.db
 Dataset Pathname: DIL/carmstck
 Presentation Format: dil
 Dataset Creation: Wed Aug 19 04:13:17 2015
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-160	RxoRt	40
-200	SP (mV)	0

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



0	Gamma Ray (GAPI)	150
-160	RxoRt	40
-200	SP (mV)	0

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

LSPD (ft/min)

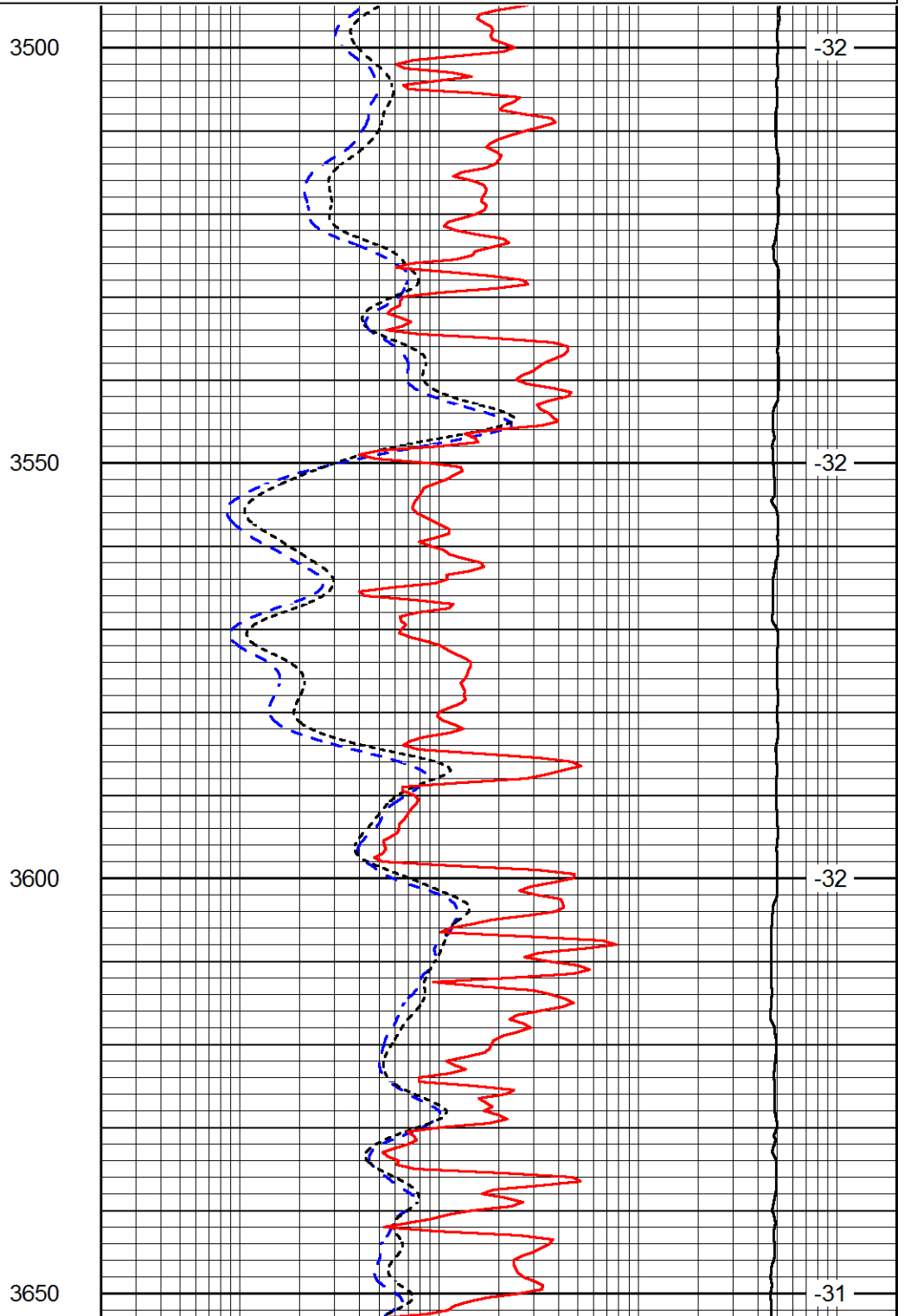
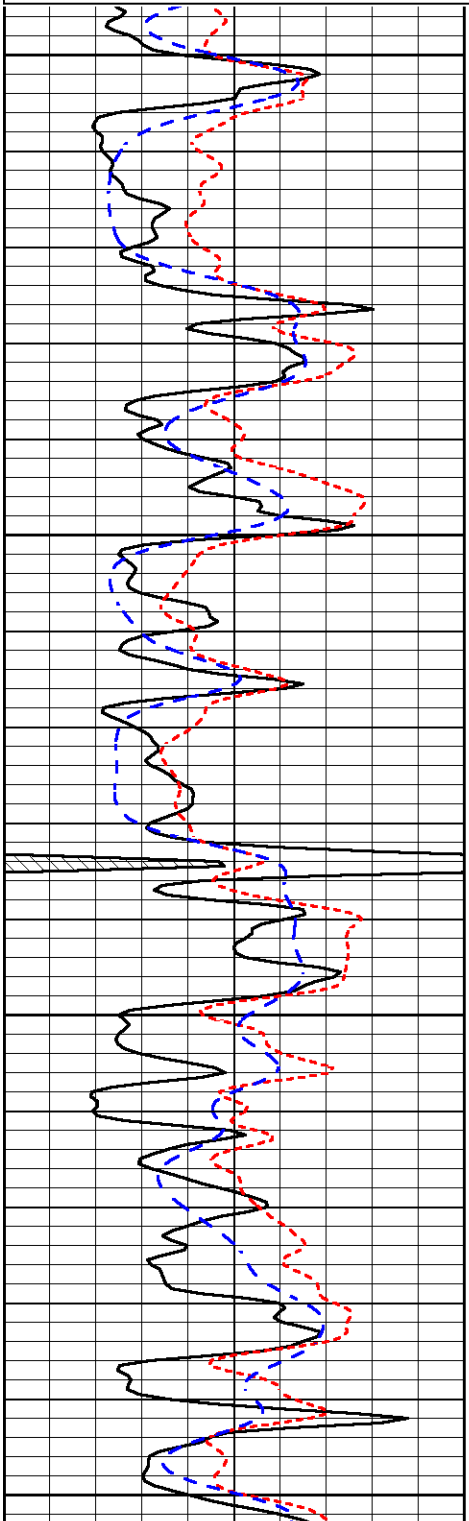
LSPD

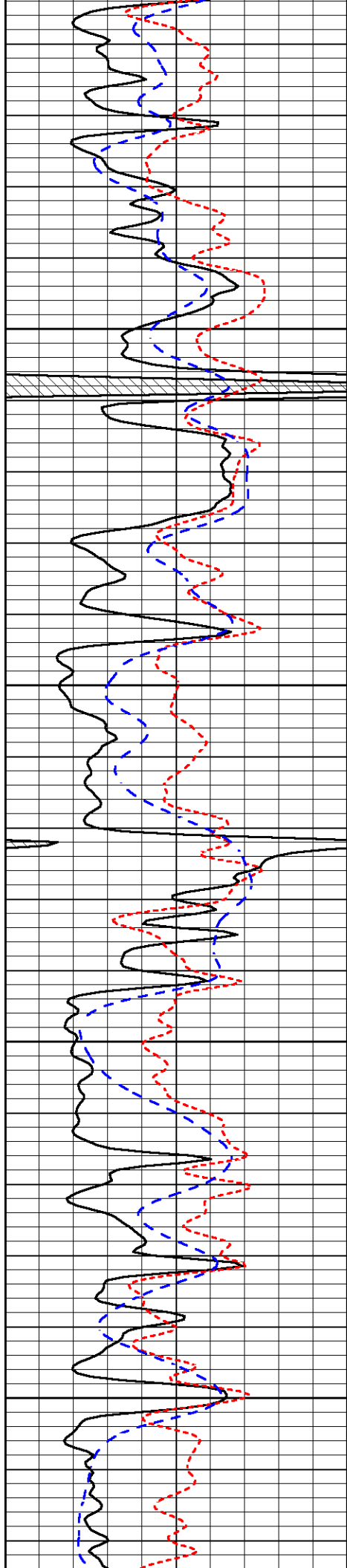
Database File carmenschmitt_lipp-harvey_1-12hd.db
Dataset Pathname DIL/carmstck
Presentation Format dil
Dataset Creation Wed Aug 19 04:13:17 2015
Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-160	RxoRt	40
-200	SP (mV)	0

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

LSPD
(ft/min)



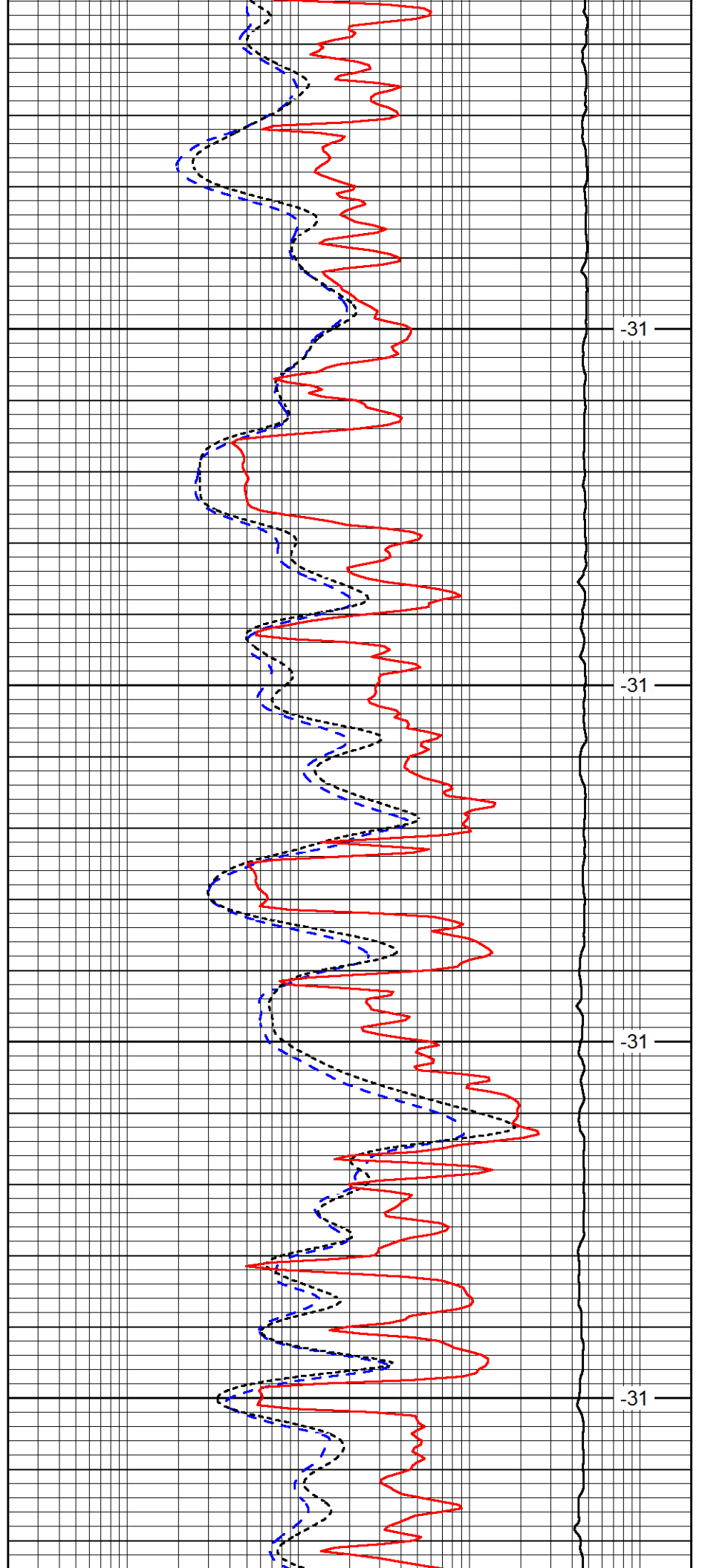


3700

3750

3800

3850

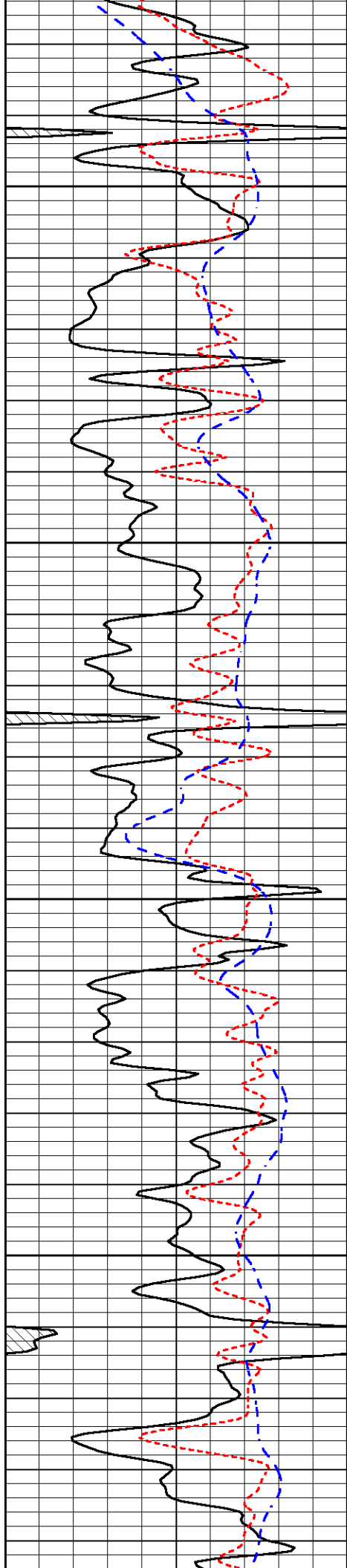


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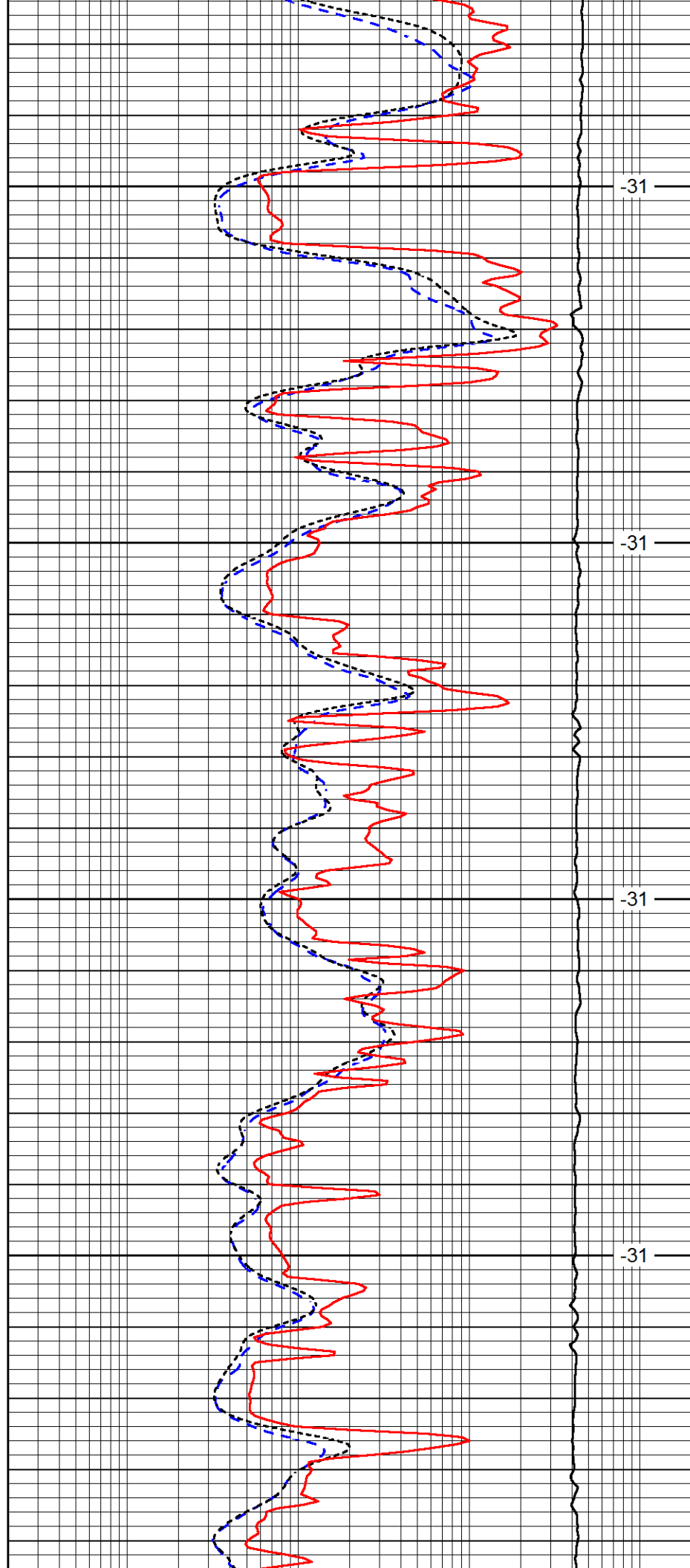


3900

3950

4000

4050

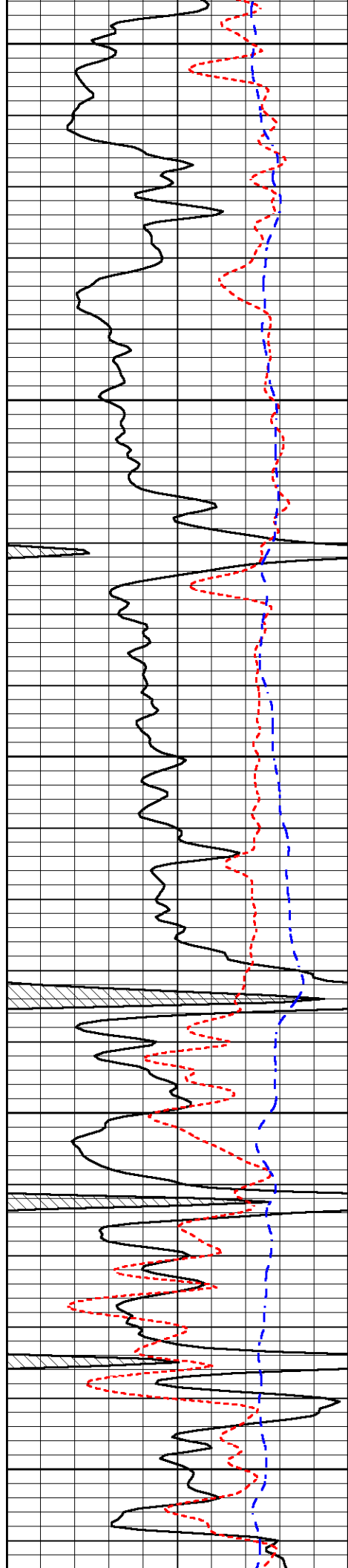


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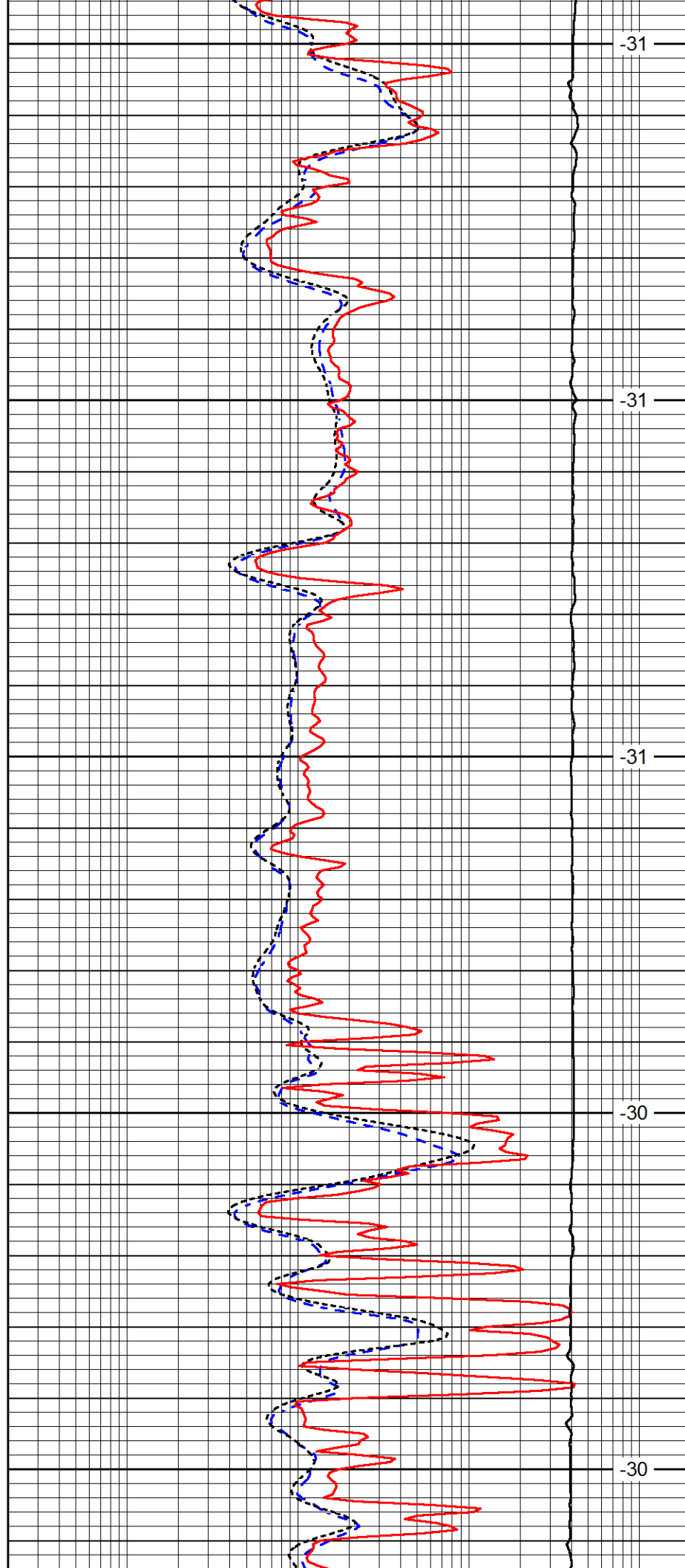
4100

4150

4200

4250

4300



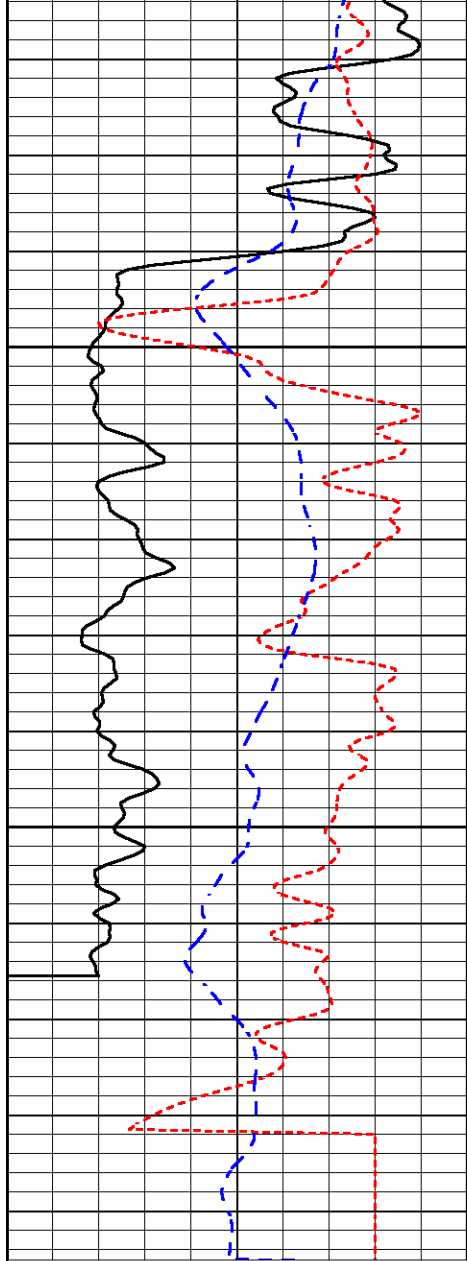
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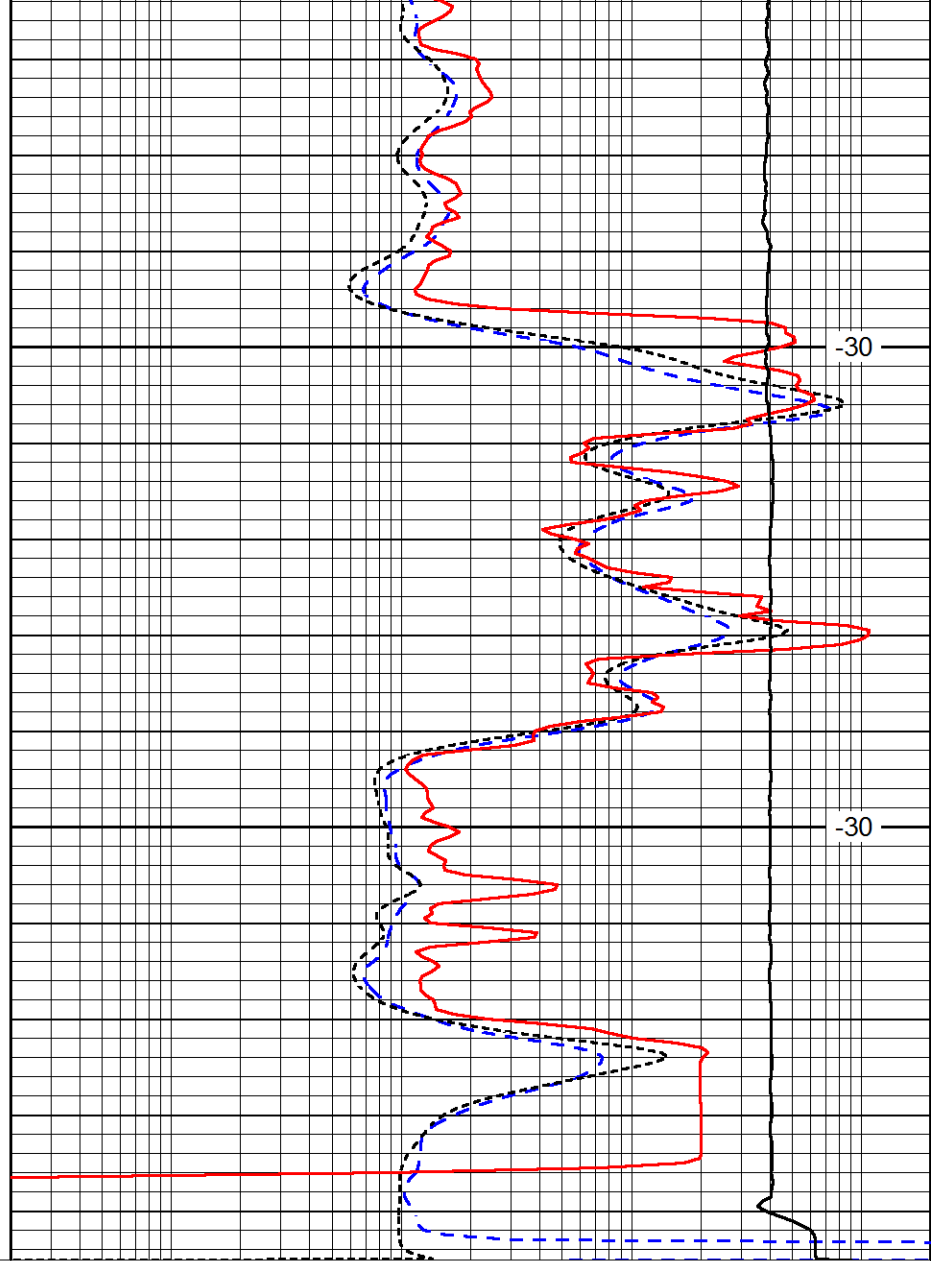
0	Gamma Ray (GAPI)	150
-160	RxoRt	40
-200	SP (mV)	0

4350

4400

-30

-30



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

LSPD
(ft/min)



DUAL COMP POROSITY LOG

Pioneer Energy Services

Company CARMEN SCHMITT, INC.
 Well LIPP-HARVEY NO. 1-12
 Field WILDCAT
 County GOVE
 State KANSAS

Company CARMEN SCHMITT, INC.
 Well LIPP-HARVEY NO. 1-12
 Field WILDCAT
 County GOVE State KANSAS

Location: API #: 15-063-22,263-00-00
 330' FSL & 2,450' FEL
 SEC 12 TWP 14S RGE 26W
 Permanent Datum GROUND LEVEL Elevation 2459'
 Log Measured From KELLY BUSHING
 Drilling Measured From KELLY BUSHING
 Other Services DIL/MEL
 K.B. 2464'
 D.F. N/A
 G.L. 2459'

Date	8/19/2015
Run Number	ONE
Type Log	CNL/CDL
Depth Driller	4440'
Depth Logger	4440'
Bottom Logged Interval	4419'
Top Logged Interval	3500'
Type Fluid In Hole	CHEMICAL
Salinity, PPM CL	2900
Density	9.3
Level	FULL
Max. Rec. Temp. F	120
Operating Rig Time	3 1/2 HOURS
Equipment -- Location	108 Hays
Recorded By	J. LONG
Witnessed By	PAT DEENIHAN

Borehole Record		Casing Record					
Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25	00	216	8.625	23#	00	216
TWO	7.875	216	TD				

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Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
 COLLYER EXIT, 13 SOUTH TO U ROAD, 2 1/4 WEST, NORTH INTO

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

THANK YOU FOR USING PIONEER ENERGY SERVICES
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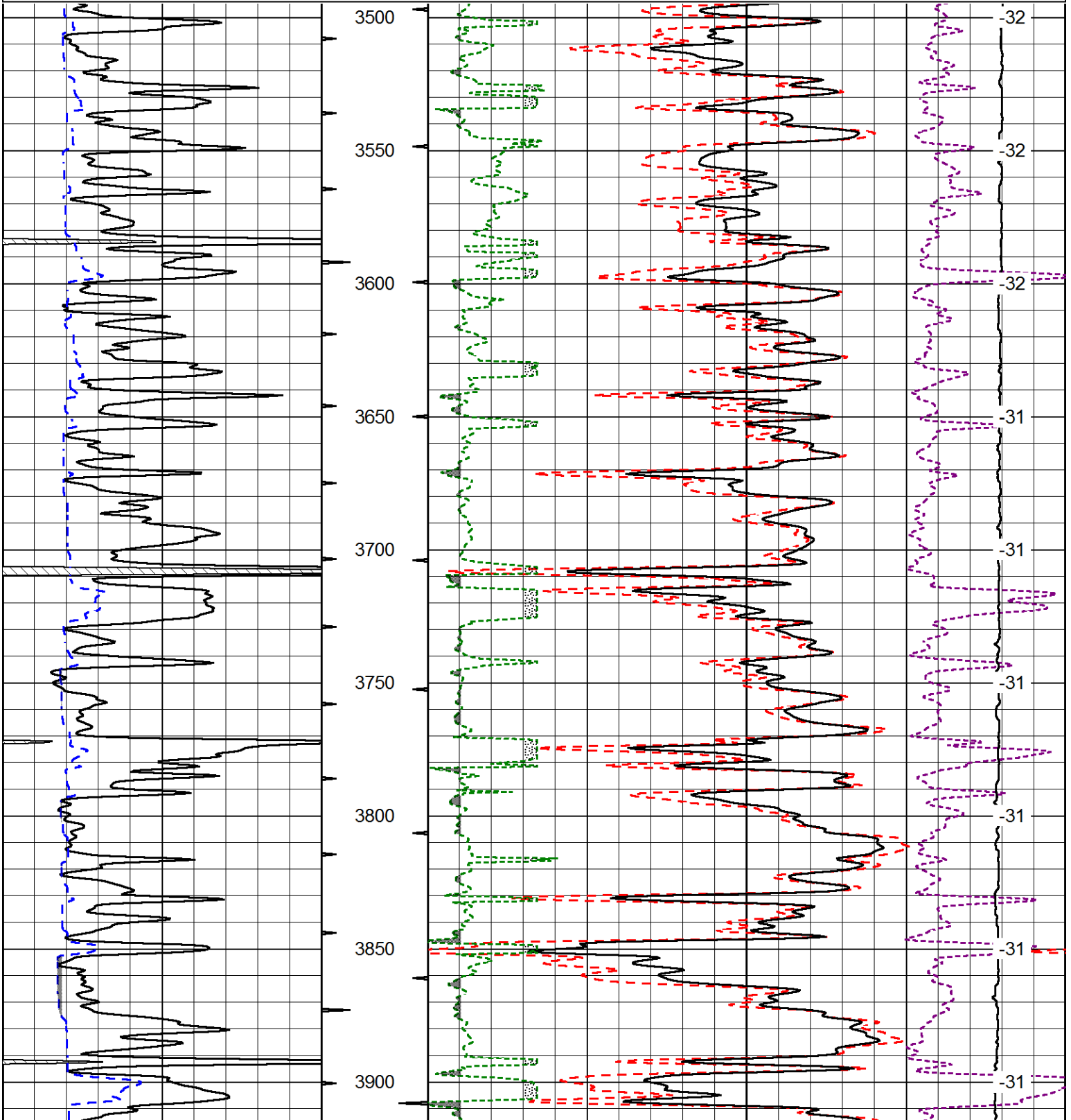
Your Pioneer Energy Services Crew Engineer: J. LONG Operator: Operator: Operator:	This Log Record Was Witnessed By Primary Witness: PAT DEENIHAN Secondary Witness: Secondary Witness: Secondary Witness:
---	---

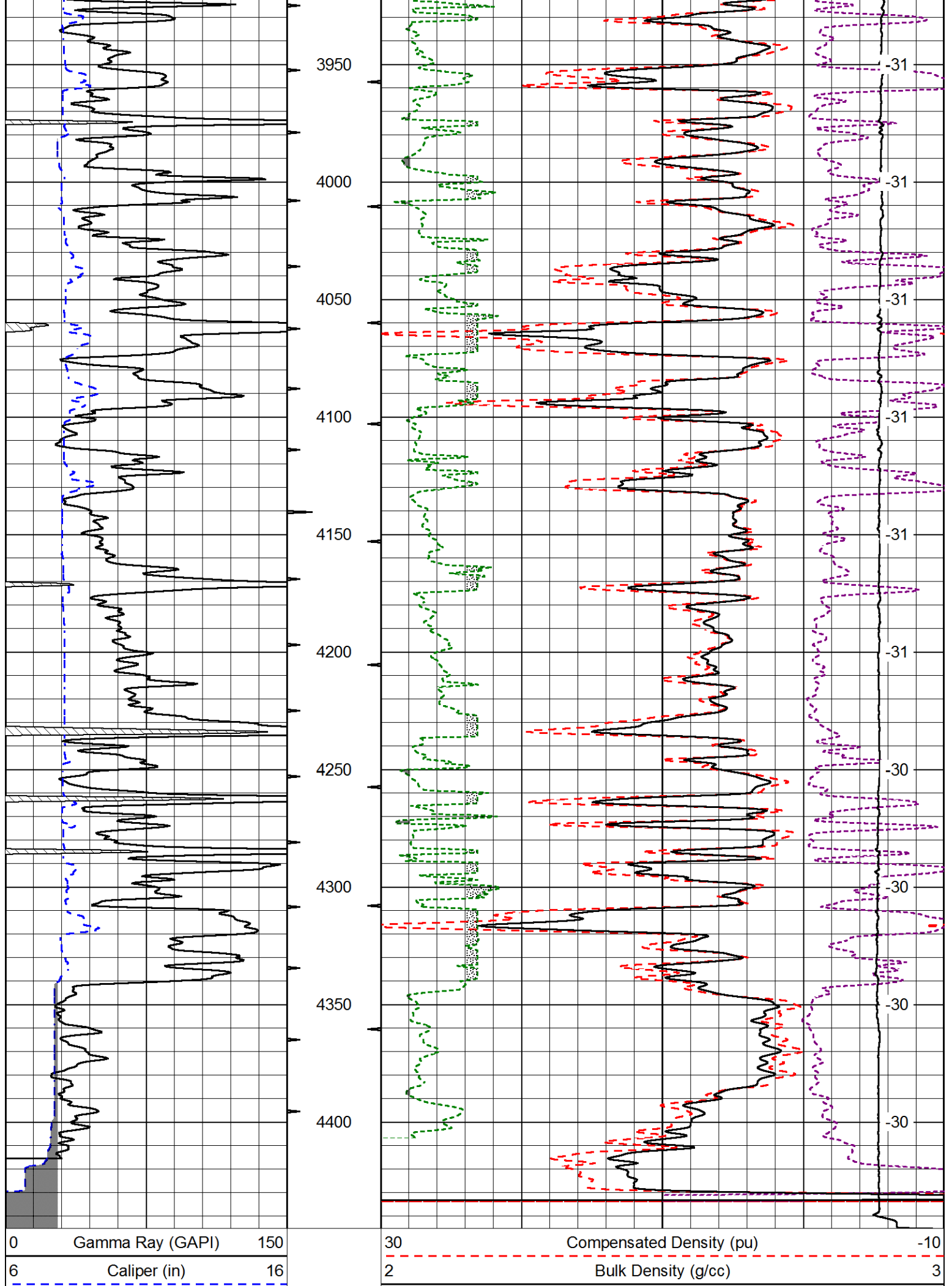
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 Dataset Pathname DIL/carmstck
 Presentation Format cdl
 Dataset Creation Wed Aug 19 04:13:17 2015
 Charted by Depth in Feet scaled 1:600

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

30	Compensated Density (pu)		-10
2	Bulk Density (g/cc)		3
15000	Line Tension (lb)		0
2.625	DGA (g/cc)	3.425	-0.25
	Correction (g/cc)		0.25

LSPD
(ft/min)

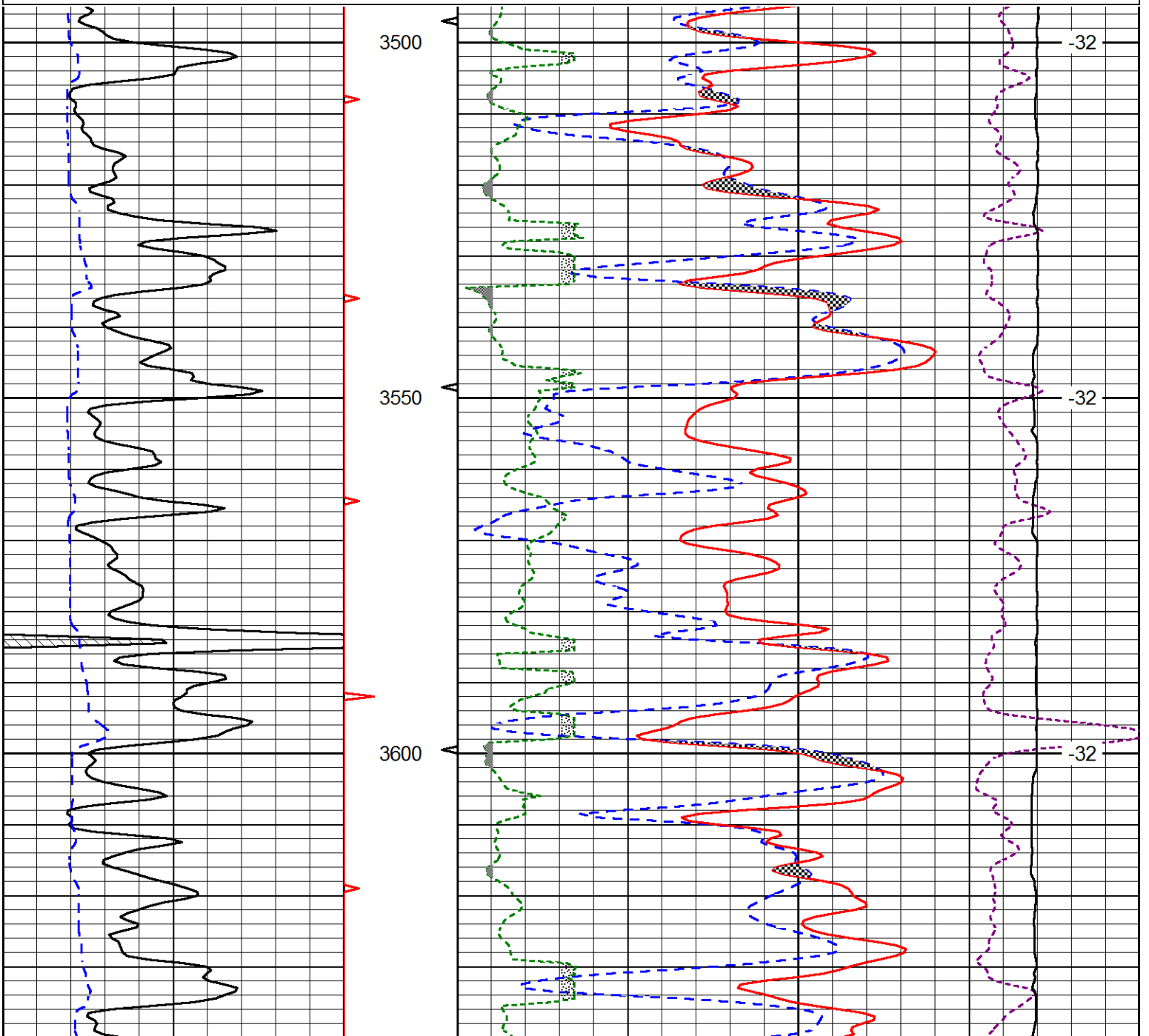


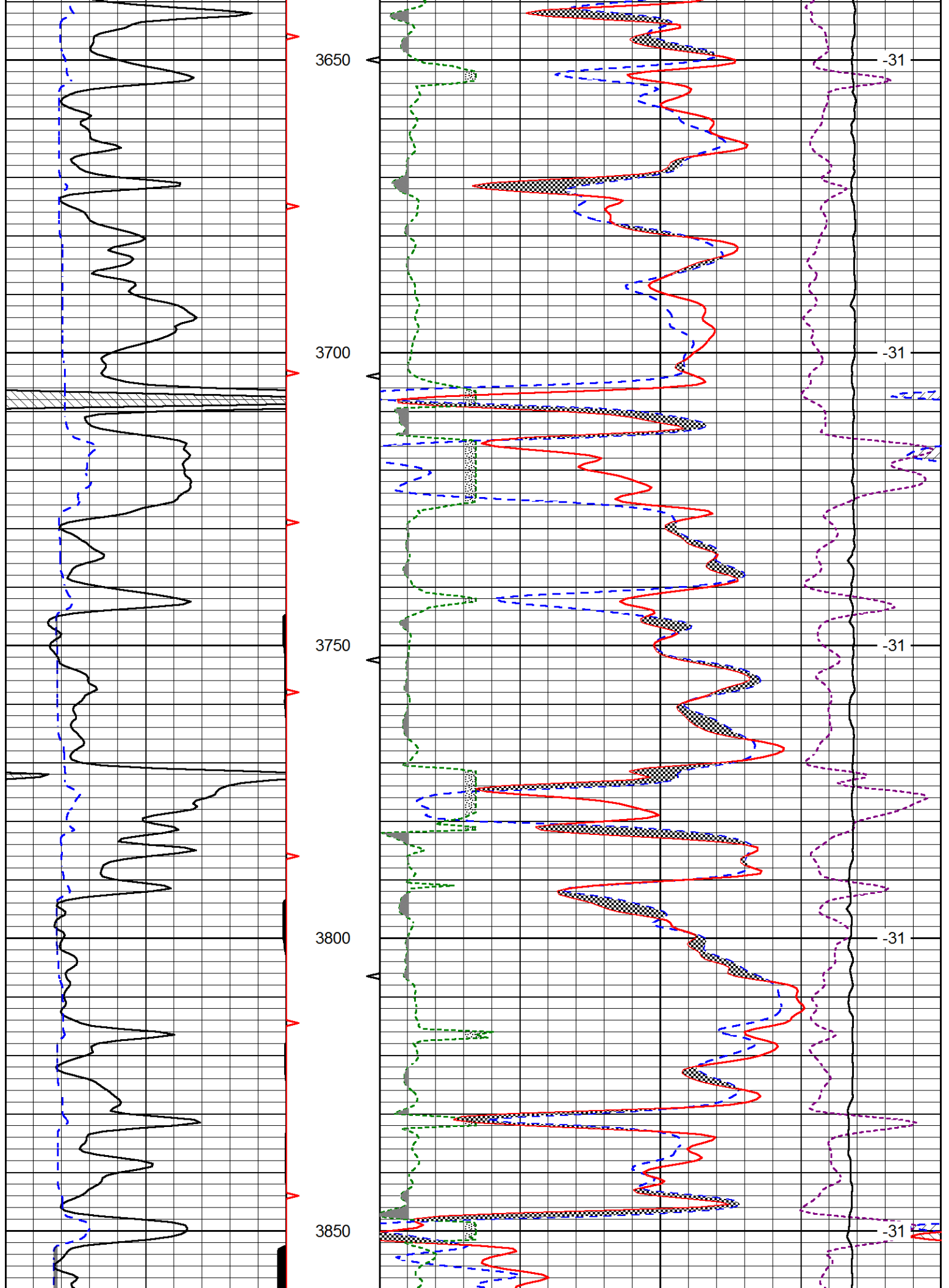


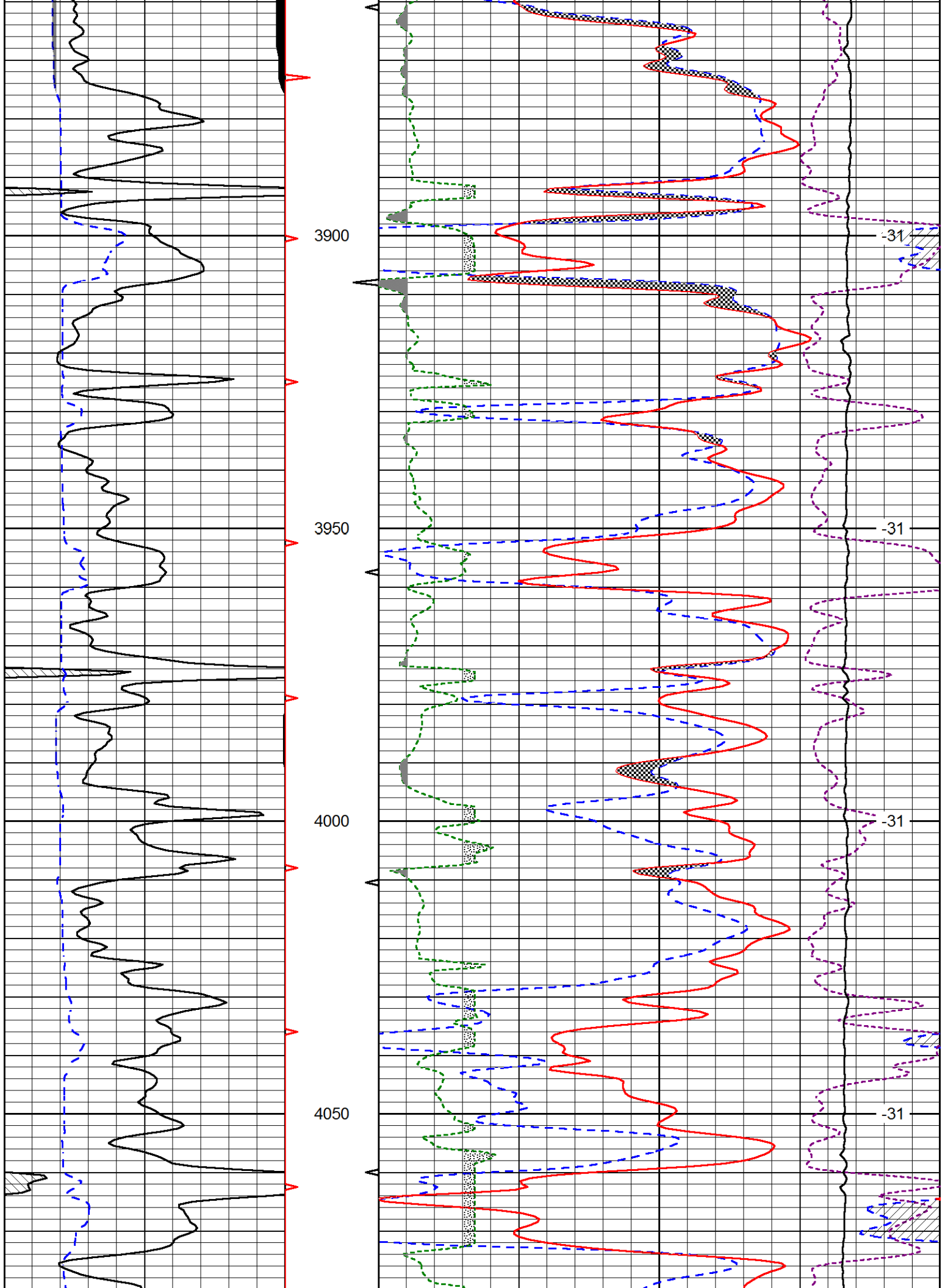
15000	Line Tension (lb)			0	
2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc)	0.25
				LSPD (ft/min)	

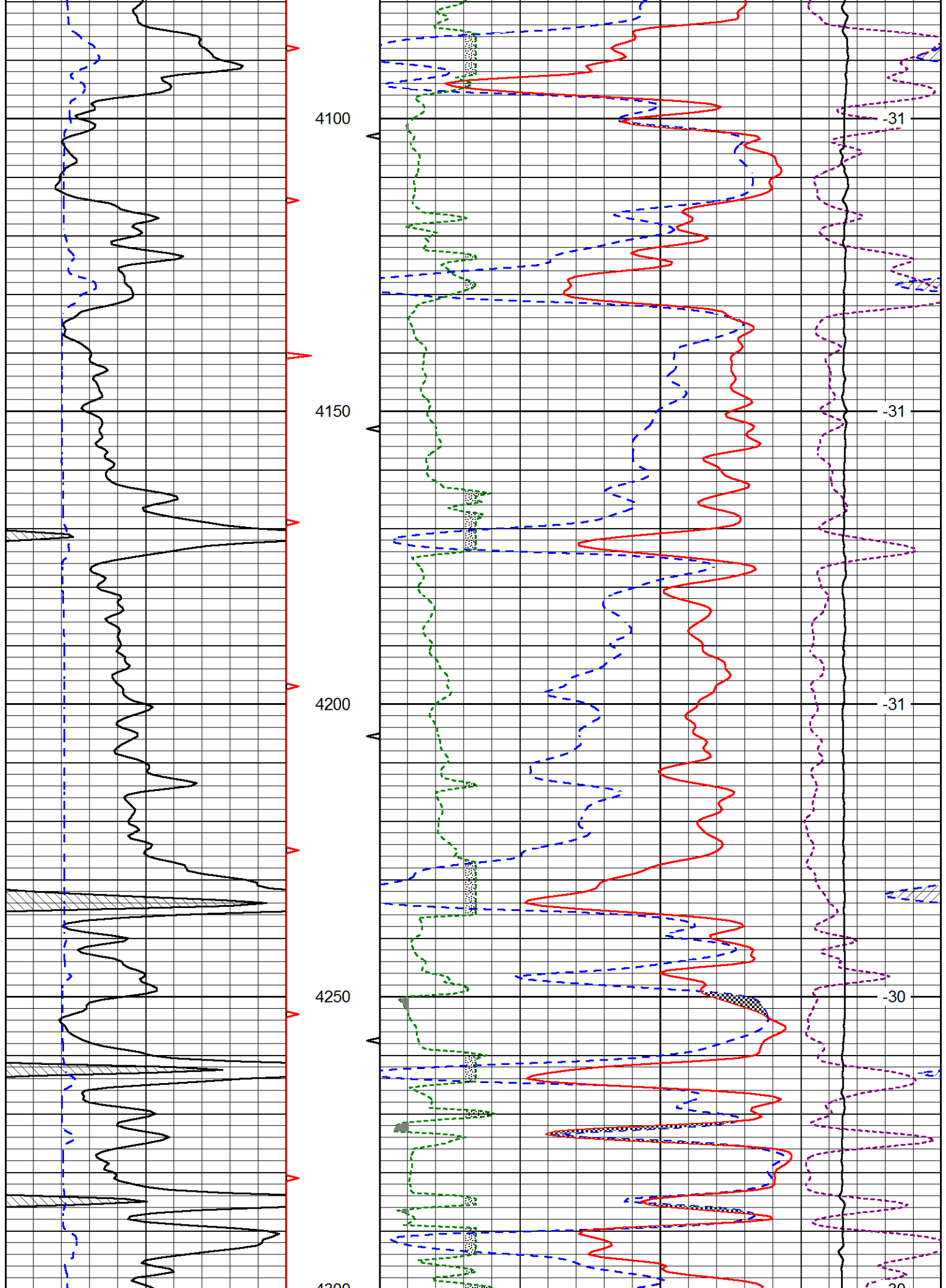
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 Presentation Format: cndlspec
 Dataset Creation: Wed Aug 19 04:13:17 2015
 Charted by: Depth in Feet scaled 1:240

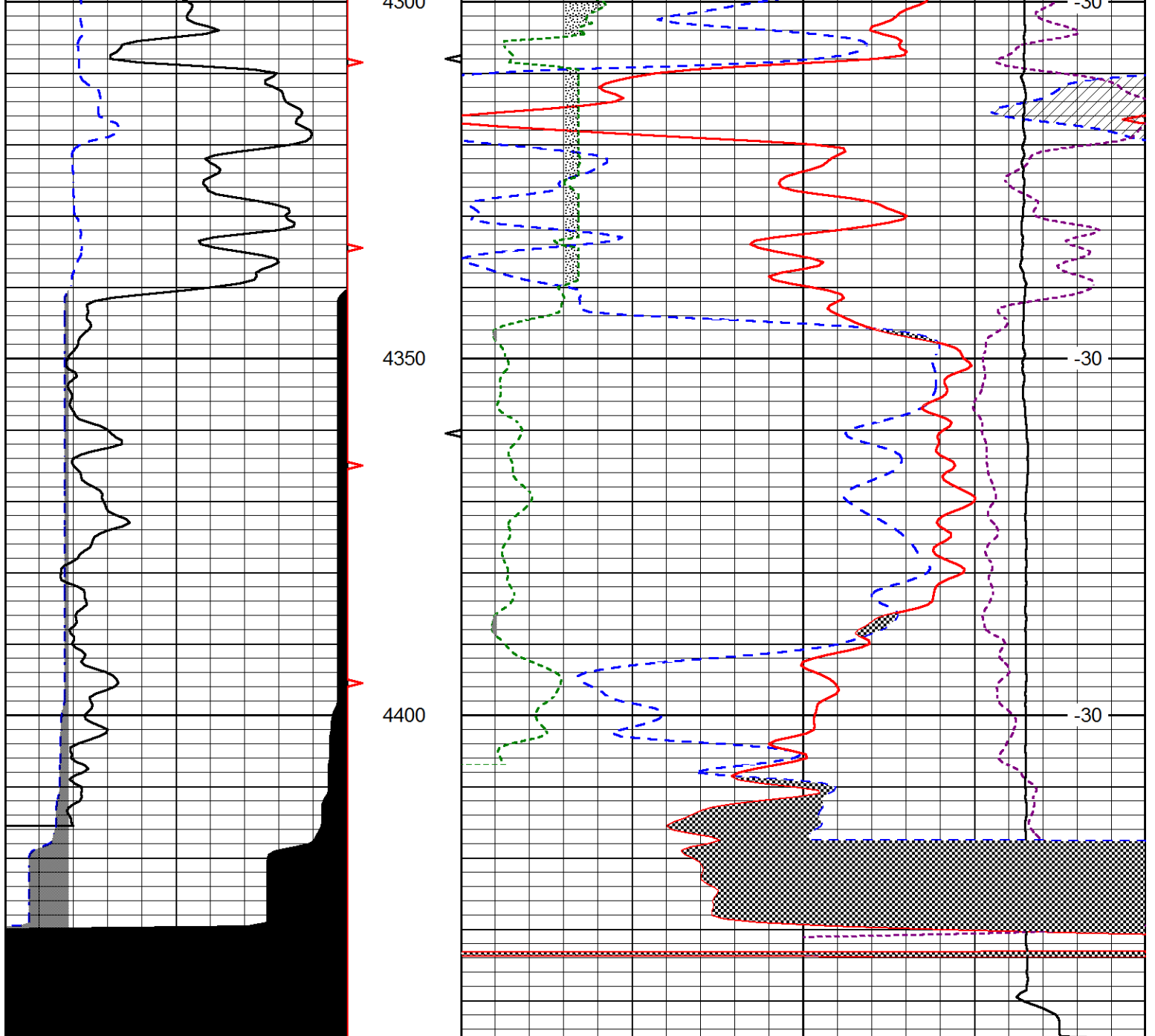
0	Gamma Ray (GAPI)	150	30	CNLS (pu)	-10
6	Caliper (in)	16	30	Compensated Density (2.71 ma) (pu)	-10
			10000	Line Tension (lb)	0
2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc)	0.25
				LSPD (ft/min)	











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

30	CNLS (pu)	-10
30	Compensated Density (2.71 ma) (pu)	-10
10000	Line Tension (lb)	0
2.625	DGA (g/cc)	3.425 -0.25
	Correction (g/cc)	0.25

LSPD
(ft/min)



MICRORESISTIVITY LOG

Company CARMEN SCHMITT, INC.
 Well LIPP-HARVEY NO. 1-12
 Field WILDCAT
 County GOVE
 State KANSAS

Company CARMEN SCHMITT, INC.
 Well LIPP-HARVEY NO. 1-12
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Location: API #: 15-063-22,263-00-00
 330' FSL & 2,450' FEL
 SEC 12 TWP 14S RGE 26W
 Permanent Datum GROUND LEVEL Elevation 2459'
 Log Measured From KELLY BUSHING
 Drilling Measured From KELLY BUSHING
 Other Services
 CNL/CDL
 DIL
 Elevation
 K.B. 2464'
 D.F. N/A
 G.L. 2459'

Date	8/19/2015
Run Number	TWO
Depth Driller	4440'
Depth Logger	4440'
Bottom Logged Interval	4439'
Top Log Interval	3500'
Casing Driller	8.625" @ 216'
Casing Logger	213'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	2900
Density / Viscosity	9.3 60
pH / Fluid Loss	10.5 7.2
Source of Sample	Flowline
Rm @ Meas. Temp	.84 @ 78
Rmt @ Meas. Temp	.63 @ 78
Rmc @ Meas. Temp	1.13 @ 78
Source of Rmf / Rmc	Charts
Rm @ BHT	.54 @ 120
Operating Rig Time	3 1/2 HOURS
Max Rec. Temp. F	120
Equipment Number	108
Location	Hays
Recorded By	J. LONG
Witnessed By	PAT DEENIHAN

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Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
 COLLYER EXIT, 13 SOUTH TO U ROAD, 2 1/4 WEST, NORTH INTO

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

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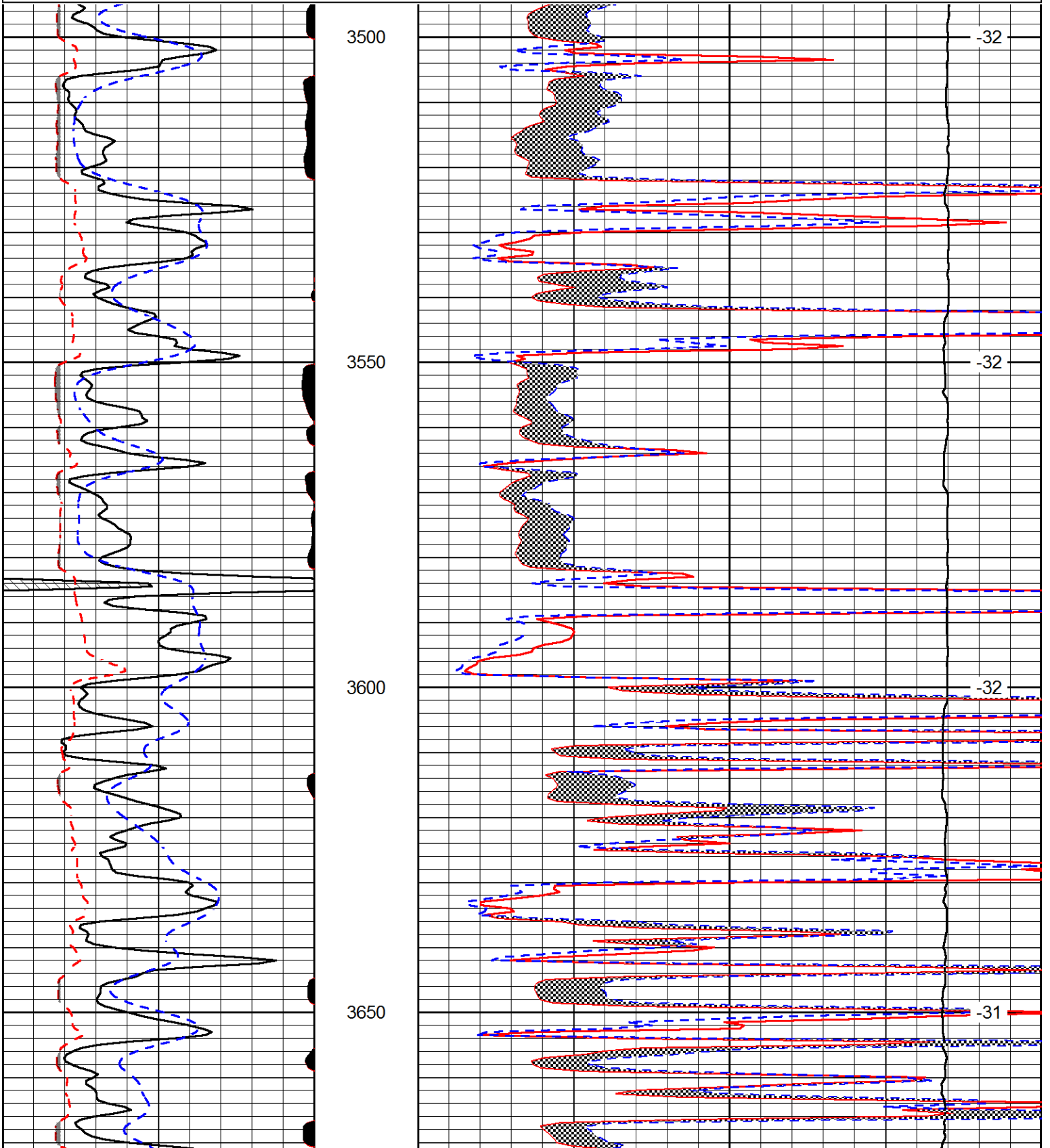
Your Pioneer Energy Services Crew Engineer: J. LONG Operator: Operator: Operator:	This Log Record Was Witnessed By Primary Witness: PAT DEENIHAN Secondary Witness: Secondary Witness: Secondary Witness:
---	---

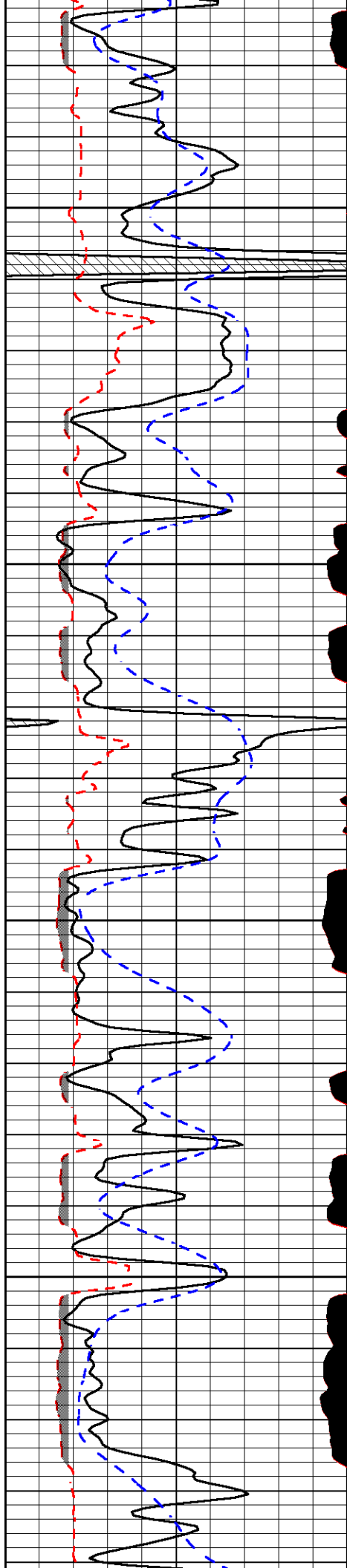
Database File carmenschmitt_lipp-harvey_1-12hd.db
 Dataset Pathname DIL/carmstck
 Presentation Format micro
 Dataset Creation Wed Aug 19 04:13:17 2015
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-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

LSPD
(ft/min)



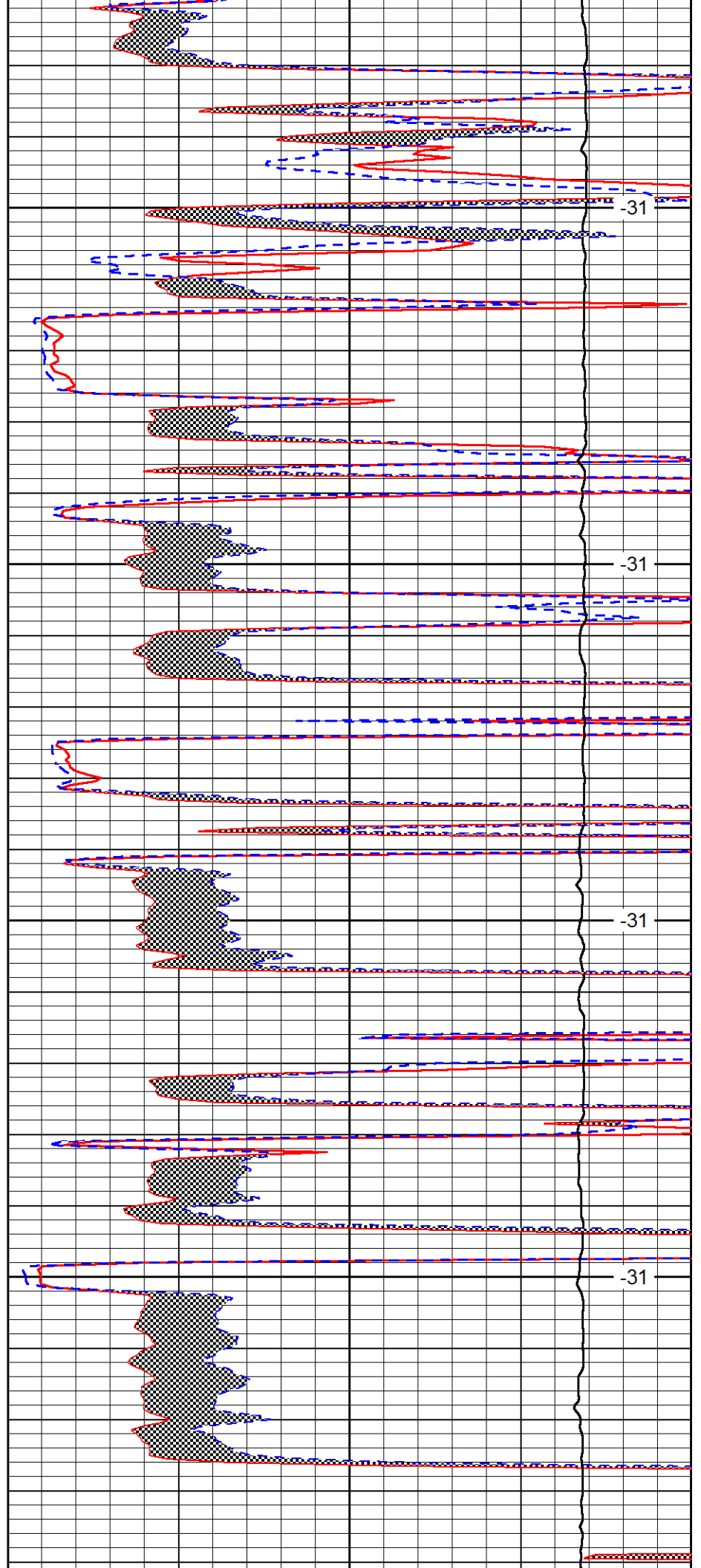


3700

3750

3800

3850

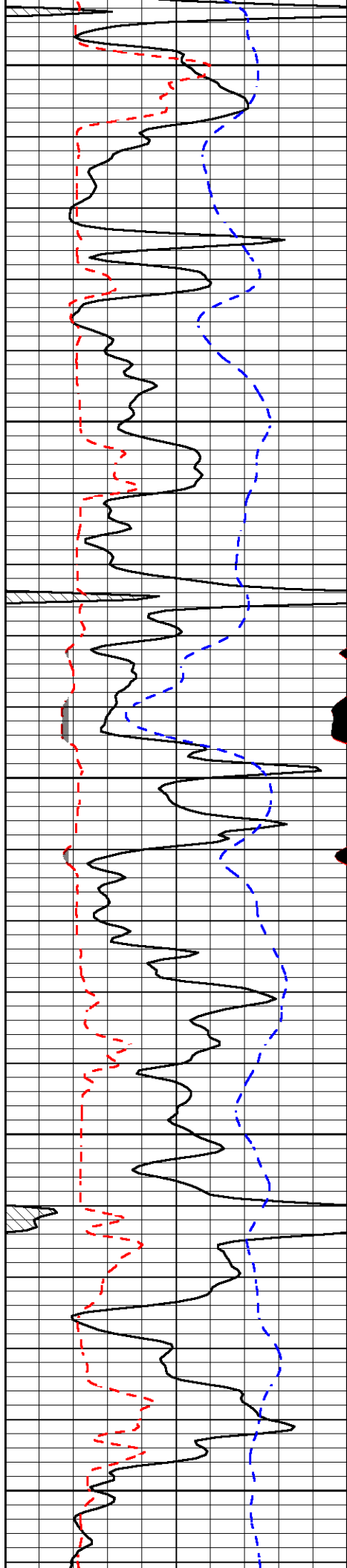


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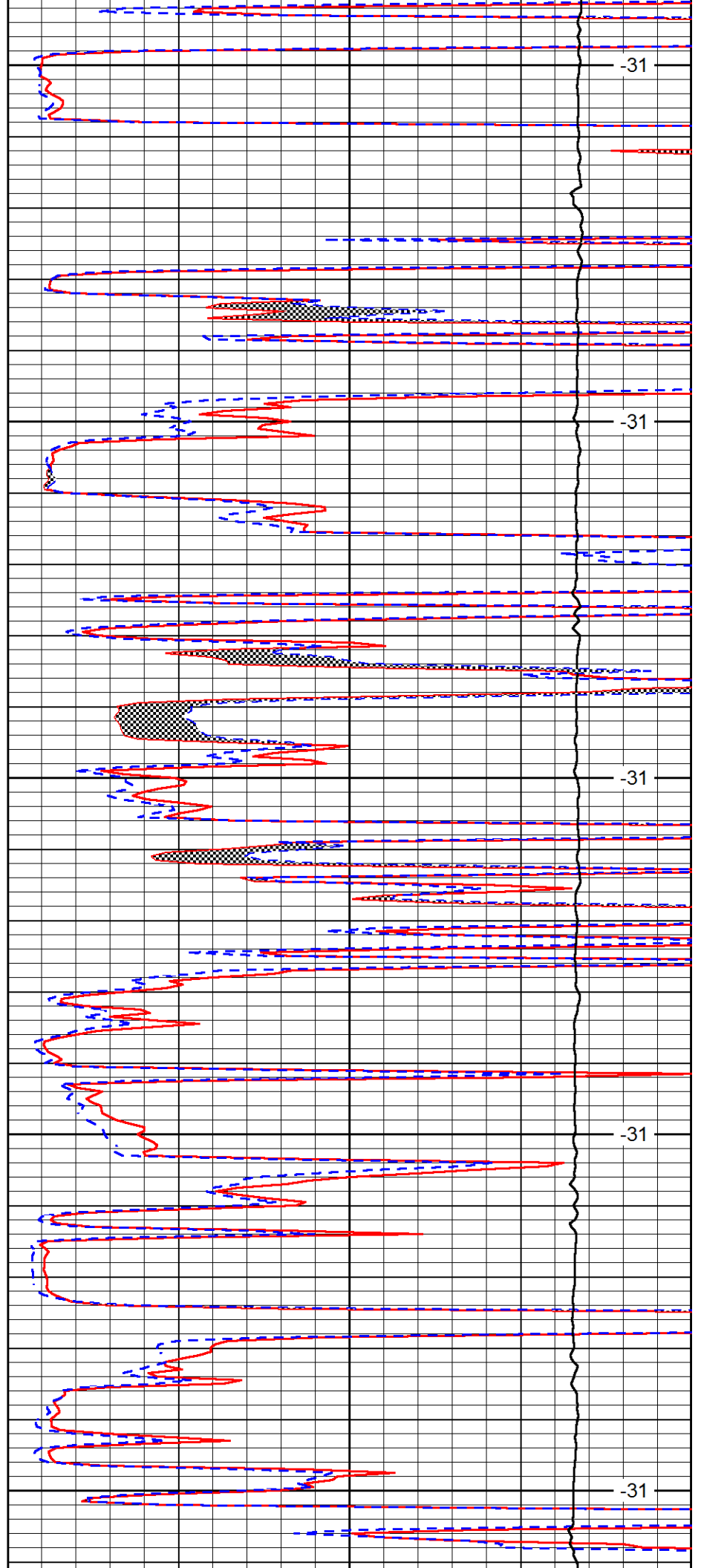
3900

3950

4000

4050

4100



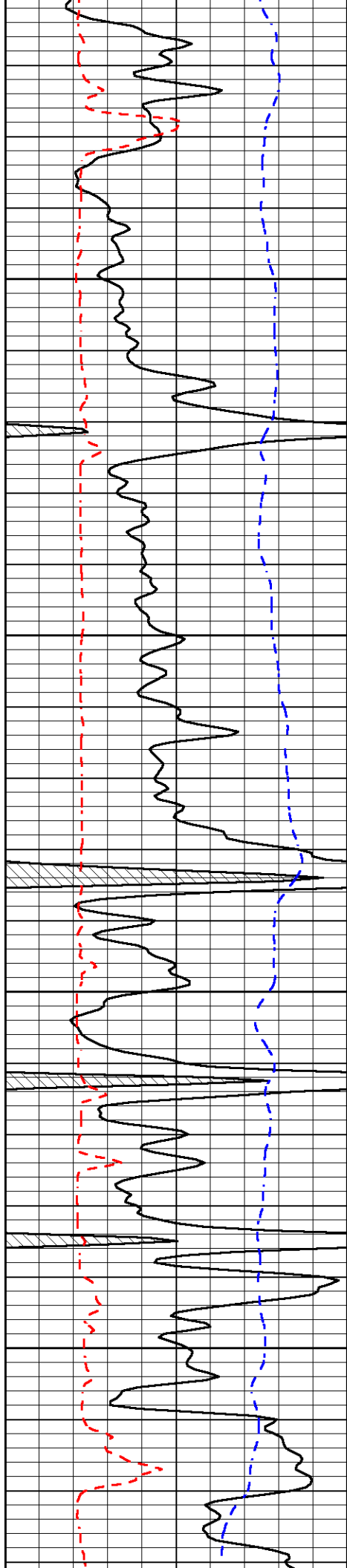
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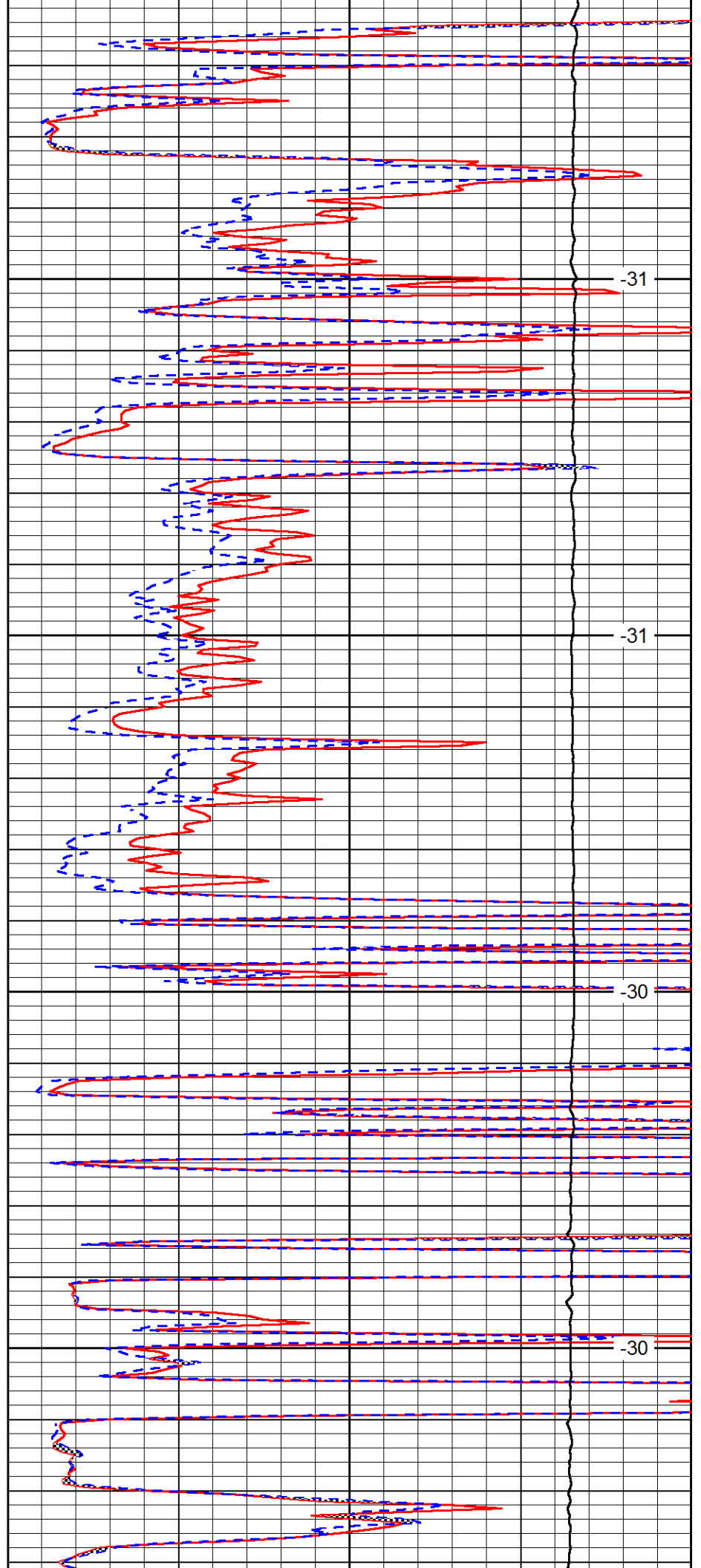


4150

4200

4250

4300

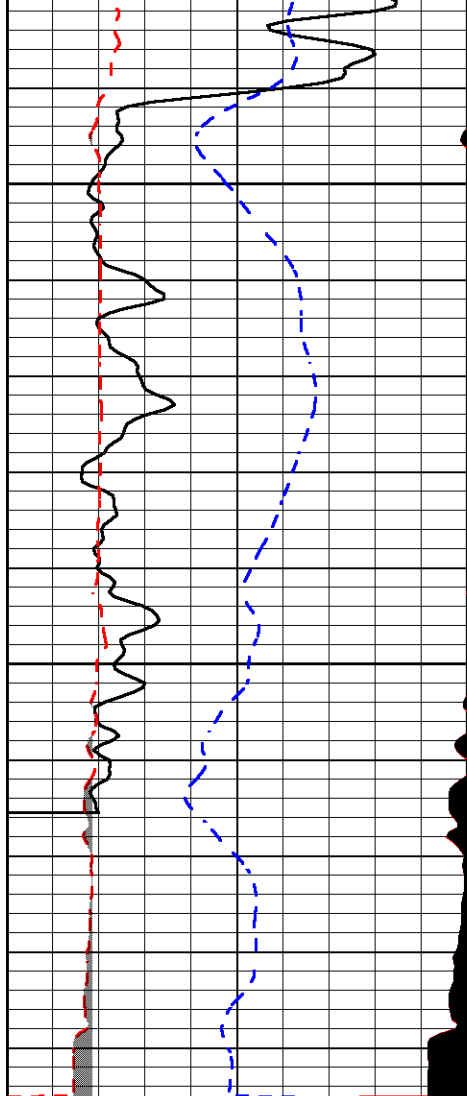


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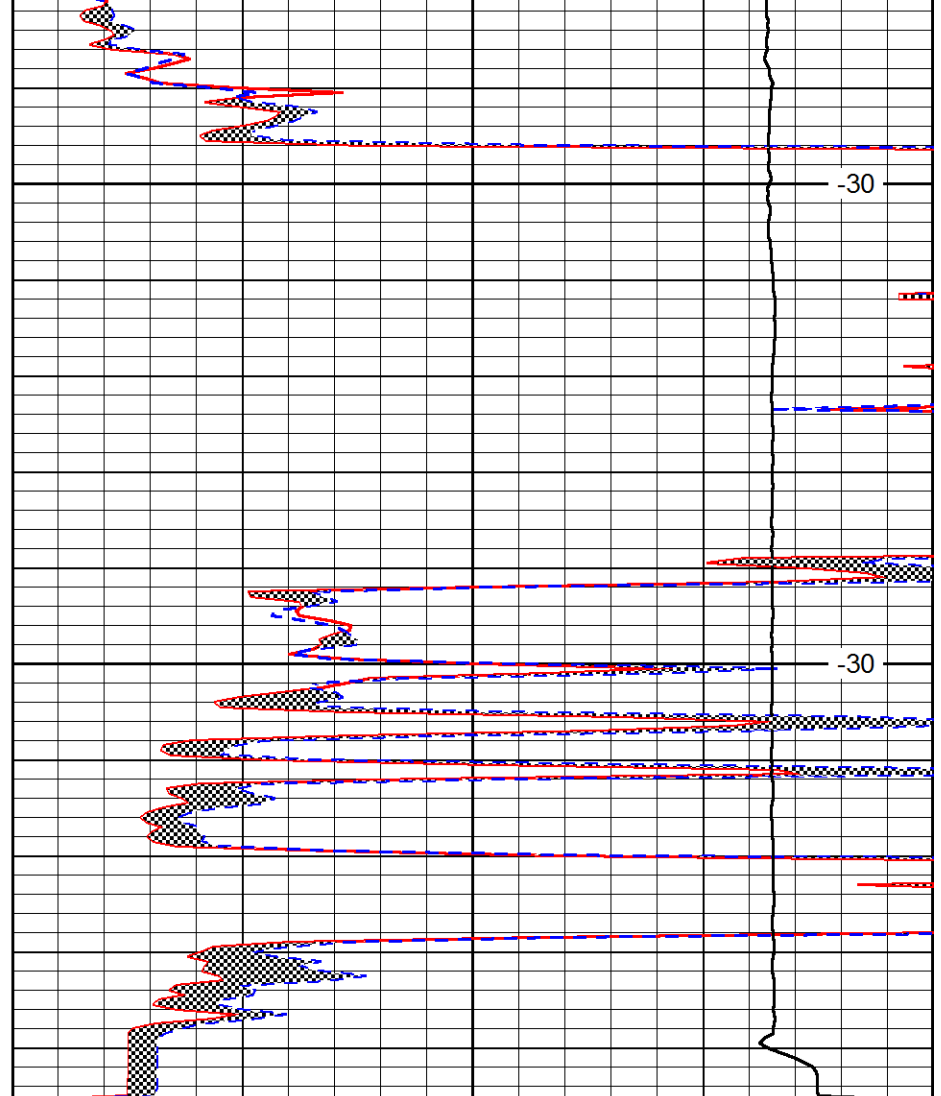
-30



0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	Mud Cake (in)	7.875
-200	SP (mV)	0

4350

4400



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

LSPD
(ft/min)