

Confidentiality Requested:

Yes No

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

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

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

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Blue Goose Drilling Company, Inc.
Well Name	Stiawalt 4
Doc ID	1301930

All Electric Logs Run

CPI
DIL
DUCP
MEL
CBL



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Blue Goose Drilling Co., Inc.

S5-20s-26w Ness/KS

POB 1413
Great Bend, KS 67530

Stiawalt #4

Job Ticket: 64503

DST#: 1

ATTN: Ken Wallace

Test Start: 2016.02.17 @ 21:25:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:30:40

Time Test Ended: 04:42:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Smith

Unit No: 81

Interval: 4562.00 ft (KB) To 4604.00 ft (KB) (TVD)

Total Depth: 4604.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2639.00 ft (KB)

2630.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8357

Inside

Press @ Run Depth: 1401.52 psig @ 4569.00 ft (KB)

Start Date: 2016.02.17

End Date: 2016.02.18

Start Time: 21:25:02

End Time: 04:42:40

Capacity: 8000.00 psig

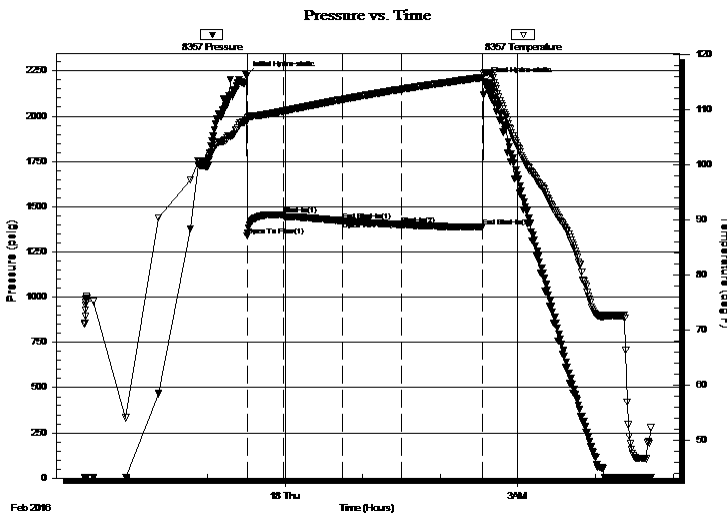
Last Calib.: 2016.02.18

Time On Btm: 2016.02.17 @ 23:30:10

Time Off Btm: 2016.02.18 @ 02:34:00

TEST COMMENT: 30- 1/2" Blow .
45- No return.
45- Surface blow after 20 minutes throughout.
60- No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2222.00	108.16	Initial Hydro-static
1	1340.35	108.01	Open To Flow (1)
29	1453.82	109.72	Shut-In(1)
75	1422.30	111.84	End Shut-In(1)
75	1422.19	111.85	Open To Flow (2)
120	1401.52	113.69	Shut-In(2)
183	1387.68	115.84	End Shut-In(2)
184	2193.24	116.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	API: @ Degrees F = .	0.00
0.00	RW: @ Degrees F = PPM	0.00
1.00	M 100m	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Blue Goose Drilling Co., Inc.

S5-20s-26w Ness/KS

POB 1413
Great Bend, KS 67530

Stiawalt #4

Job Ticket: 64503

DST#: 1

ATTN: Ken Wallace

Test Start: 2016.02.17 @ 21:25:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	API: @ Degrees F = .	0.000
0.00	RW: @ Degrees F = PPM	0.000
1.00	M 100m	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

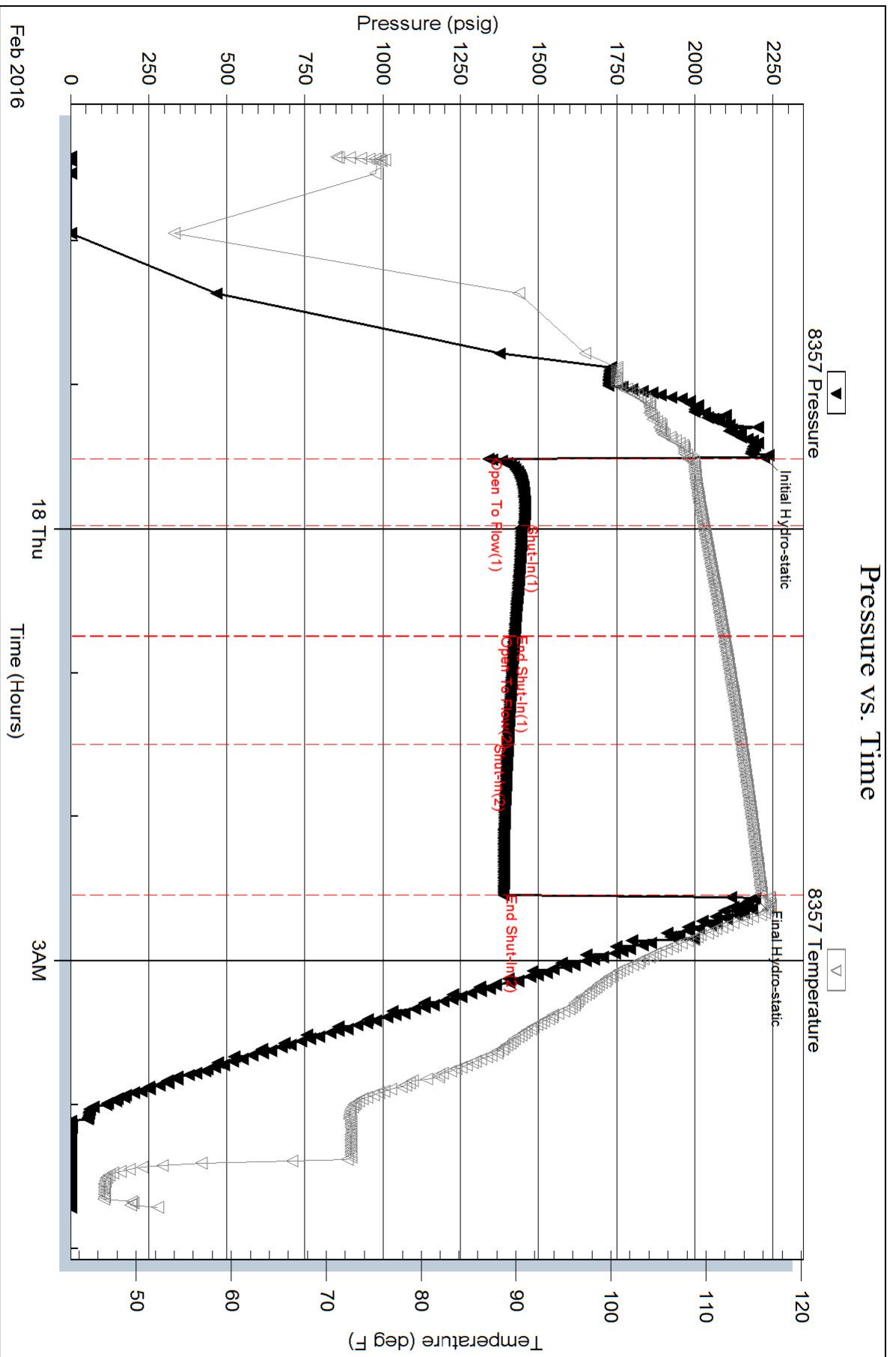
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Blue Goose Drilling Co., Inc.

S5-20s-26w Ness/KS

POB 1413
Great Bend, KS 67530

Stiawalt #4

Job Ticket: 64504

DST#: 2

ATTN: Ken Wallace

Test Start: 2016.02.18 @ 11:57:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:02:40

Time Test Ended: 18:26:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 81

Interval: 4571.00 ft (KB) To 4611.00 ft (KB) (TVD)

Reference Elevations: 2639.00 ft (KB)

Total Depth: 4611.00 ft (KB) (TVD)

2630.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8357

Inside

Press @ Run Depth: 1847.62 psig @ 4608.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.02.18

End Date:

2016.02.18

Last Calib.:

2016.02.18

Start Time: 11:57:02

End Time:

18:26:40

Time On Btm:

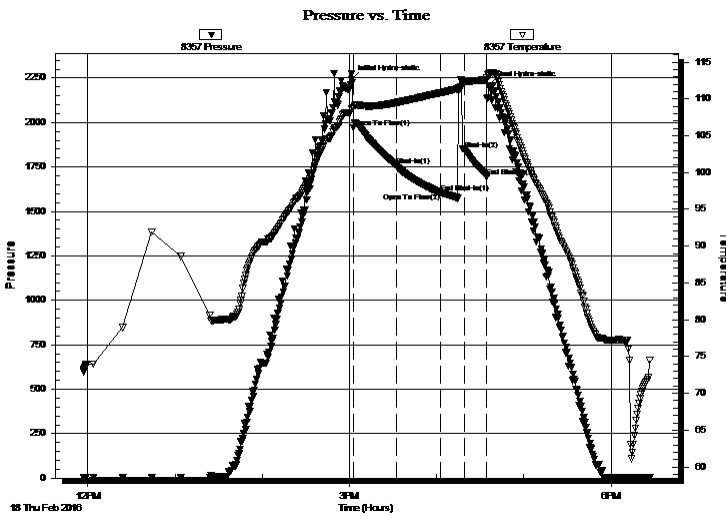
2016.02.18 @ 15:01:30

Time Off Btm:

2016.02.18 @ 16:35:40

TEST COMMENT: 30- Weak surface blow died @ 25 min.
30- No return.
17- No blow, flushed tool, surge died.
15- No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2240.89	108.62	Initial Hydro-static
2	1970.36	108.84	Open To Flow (1)
31	1754.75	109.50	Shut-In(1)
62	1606.40	110.83	End Shut-In(1)
62	1606.06	110.84	Open To Flow (2)
78	1847.62	112.27	Shut-In(2)
93	1695.65	112.60	End Shut-In(2)
95	2207.10	113.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	API: @ Degrees F = .	0.00
0.00	RW: @ Degrees F = PPM	0.00
1.00	M 100m	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Blue Goose Drilling Co., Inc.

S5-20s-26w Ness/KS

POB 1413
Great Bend, KS 67530

Stiawalt #4

Job Ticket: 64504

DST#: 2

ATTN: Ken Wallace

Test Start: 2016.02.18 @ 11:57:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:02:40

Time Test Ended: 18:26:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 81

Interval: 4571.00 ft (KB) To 4611.00 ft (KB) (TVD)

Reference Elevations: 2639.00 ft (KB)

Total Depth: 4611.00 ft (KB) (TVD)

2630.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 6751

Outside

Press @ Run Depth: psig @ 4608.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.02.18

End Date:

2016.02.18

Last Calib.:

2016.02.18

Start Time: 11:57:02

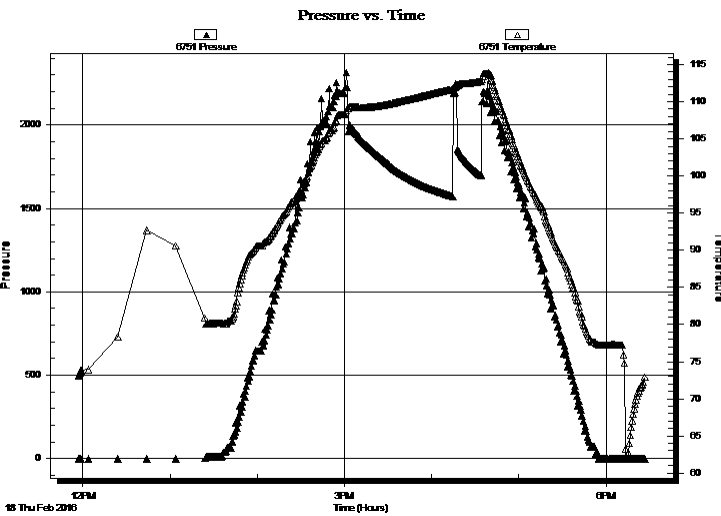
End Time:

18:26:40

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- Weak surface blow died @ 25 min.
30- No return.
17- No blow, flushed tool, surge died.
15- No return.



PRESSURE SUMMARY

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

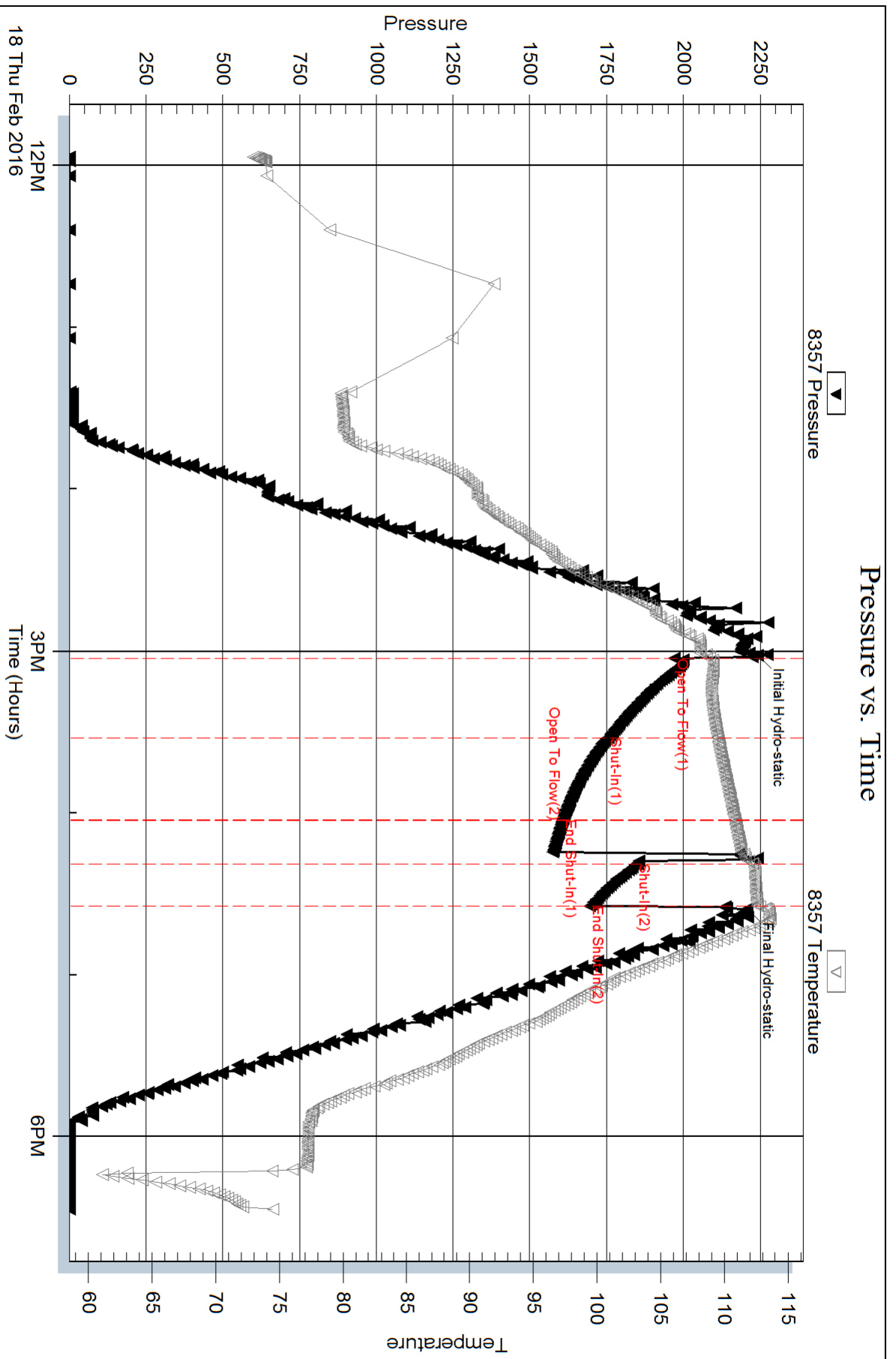
Recovery

Length (ft)	Description	Volume (bbl)
0.00	API: @ Degrees F = .	0.00
0.00	RW: @ Degrees F = PPM	0.00
1.00	M 100m	0.00

Gas Rates

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

* Recovery from multiple tests

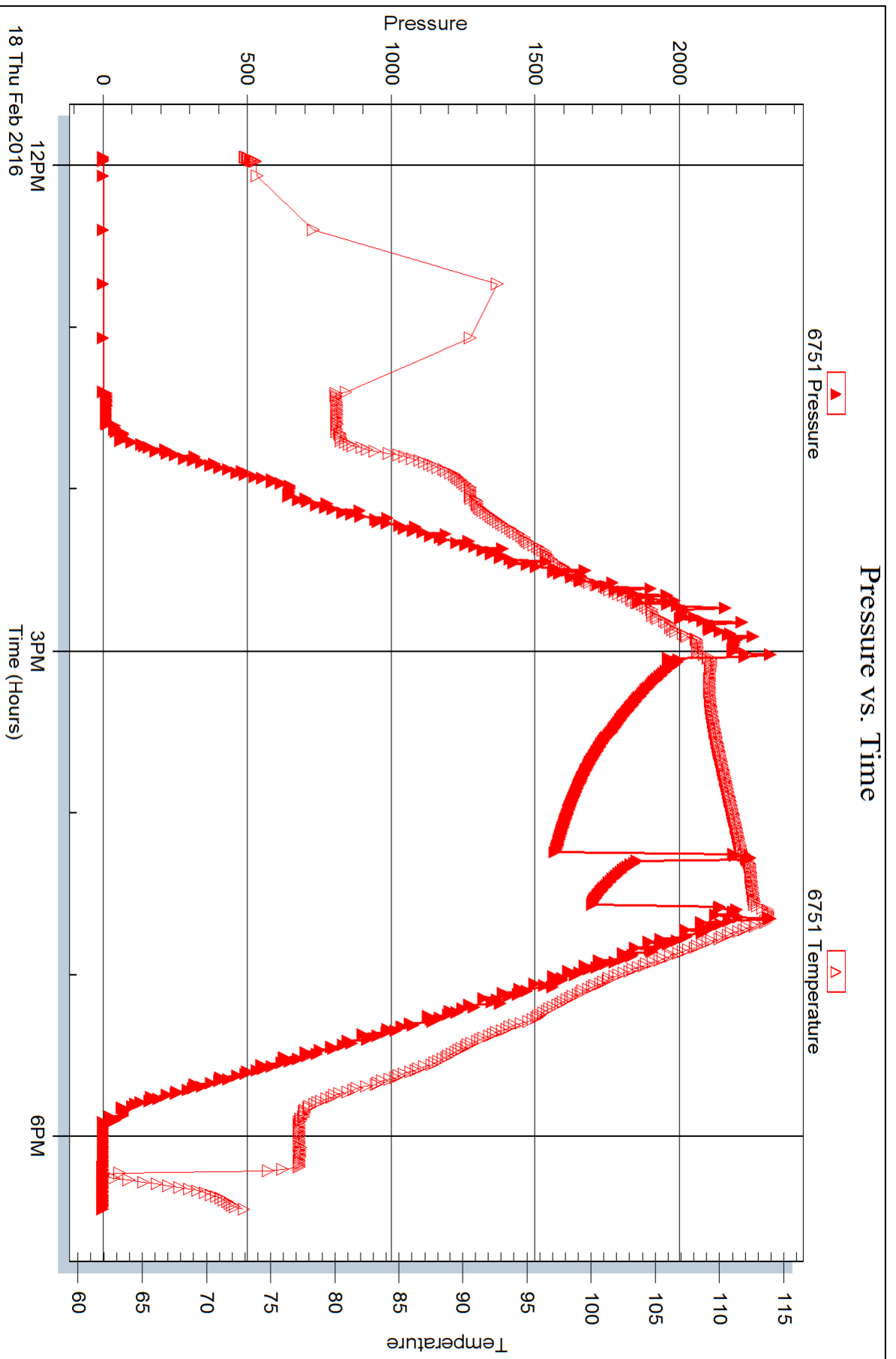


Serial #: 6751

Outside Blue Goose Drilling Co., Inc.

Slaw at #4

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Blue Goose Drilling Co., Inc.

S5-20s-26w Ness/KS

POB 1413
Great Bend, KS 67530

Stiawalt #4

Job Ticket: 64505

DST#: 3

ATTN: Ken Wallace

Test Start: 2016.02.18 @ 20:28:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:11:20

Time Test Ended: 03:36:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 81

Interval: 4571.00 ft (KB) To 4611.00 ft (KB) (TVD)

Reference Elevations: 2639.00 ft (KB)

Total Depth: 4611.00 ft (KB) (TVD)

2630.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8357

Inside

Press @ Run Depth: 156.91 psig @ 4573.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.02.18

End Date:

2016.02.19

Last Calib.:

2016.02.19

Start Time: 20:28:02

End Time:

03:36:20

Time On Btm:

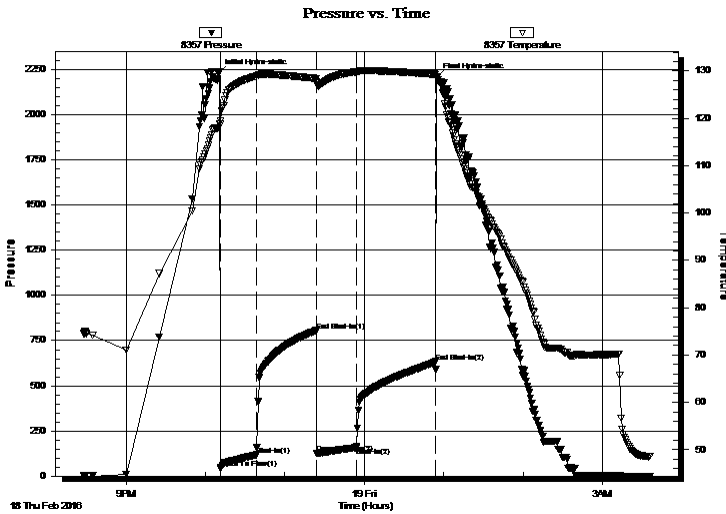
2016.02.18 @ 22:09:50

Time Off Btm:

2016.02.19 @ 00:54:50

TEST COMMENT: 30- B.O.B. @ 13 min.
45- 2 1/2" Return.
30- B.O.B. @ 23 min.
60- 1" Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2229.02	118.09	Initial Hydro-static
2	41.98	118.79	Open To Flow (1)
29	117.63	128.93	Shut-In(1)
74	805.00	128.43	End Shut-In(1)
75	124.83	127.48	Open To Flow (2)
104	156.91	129.81	Shut-In(2)
164	633.86	129.30	End Shut-In(2)
165	2205.56	128.85	Final Hydro-static

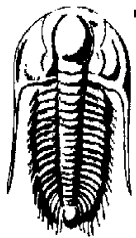
Recovery

Length (ft)	Description	Volume (bbl)
0.00	API: 37 @ 50 Degrees F = 38.	0.00
183.00	GOCM 20g 15o 65m	1.47
126.00	GO 35g 65o	1.77
78.00	GO 30g 70o	1.09
0.00	230' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Blue Goose Drilling Co., Inc.

S5-20s-26w Ness/KS

POB 1413
Great Bend, KS 67530

Stiawalt #4

Job Ticket: 64505 **DST#: 3**
Test Start: 2016.02.18 @ 20:28:00

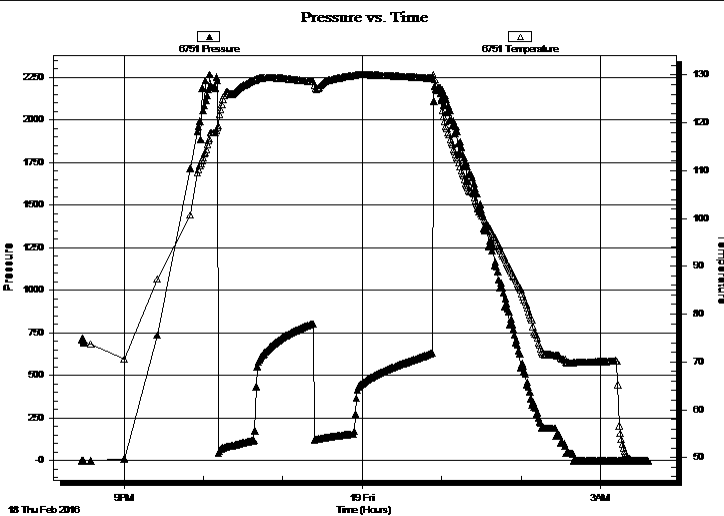
ATTN: Ken Wallace

GENERAL INFORMATION:

Formation:	Cherokee Sand		
Deviated:	No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened:	22:11:20		Tester: Chuck Smith
Time Test Ended:	03:36:20		Unit No: 81
Interval:	4571.00 ft (KB) To 4611.00 ft (KB) (TVD)		Reference Elevations: 2639.00 ft (KB)
Total Depth:	4611.00 ft (KB) (TVD)		2630.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition: Good	KB to GR/CF: 9.00 ft

Serial #: 6751	Outside		
Press@RunDepth:	psig @ 4573.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2016.02.18	End Date:	2016.02.19
Start Time:	20:28:02	End Time:	03:36:10
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: 30- B.O.B. @ 13 min.
45- 2 1/2" Return.
30- B.O.B. @ 23 min.
60- 1" Return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	API: 37 @ 50 Degrees F = 38.	0.00
183.00	GOCM 20g 15o 65m	1.47
126.00	GO 35g 65o	1.77
78.00	GO 30g 70o	1.09
0.00	230' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Blue Goose Drilling Co., Inc.

S5-20s-26w Ness/KS

POB 1413
Great Bend, KS 67530

Stiawalt #4

Job Ticket: 64505

DST#: 3

ATTN: Ken Wallace

Test Start: 2016.02.18 @ 20:28:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	API: 37 @ 50 Degrees F = 38.	0.000
183.00	GOCM 20g 15o 65m	1.474
126.00	GO 35g 65o	1.767
78.00	GO 30g 70o	1.094
0.00	230' GIP	0.000

Total Length: 387.00 ft

Total Volume: 4.335 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

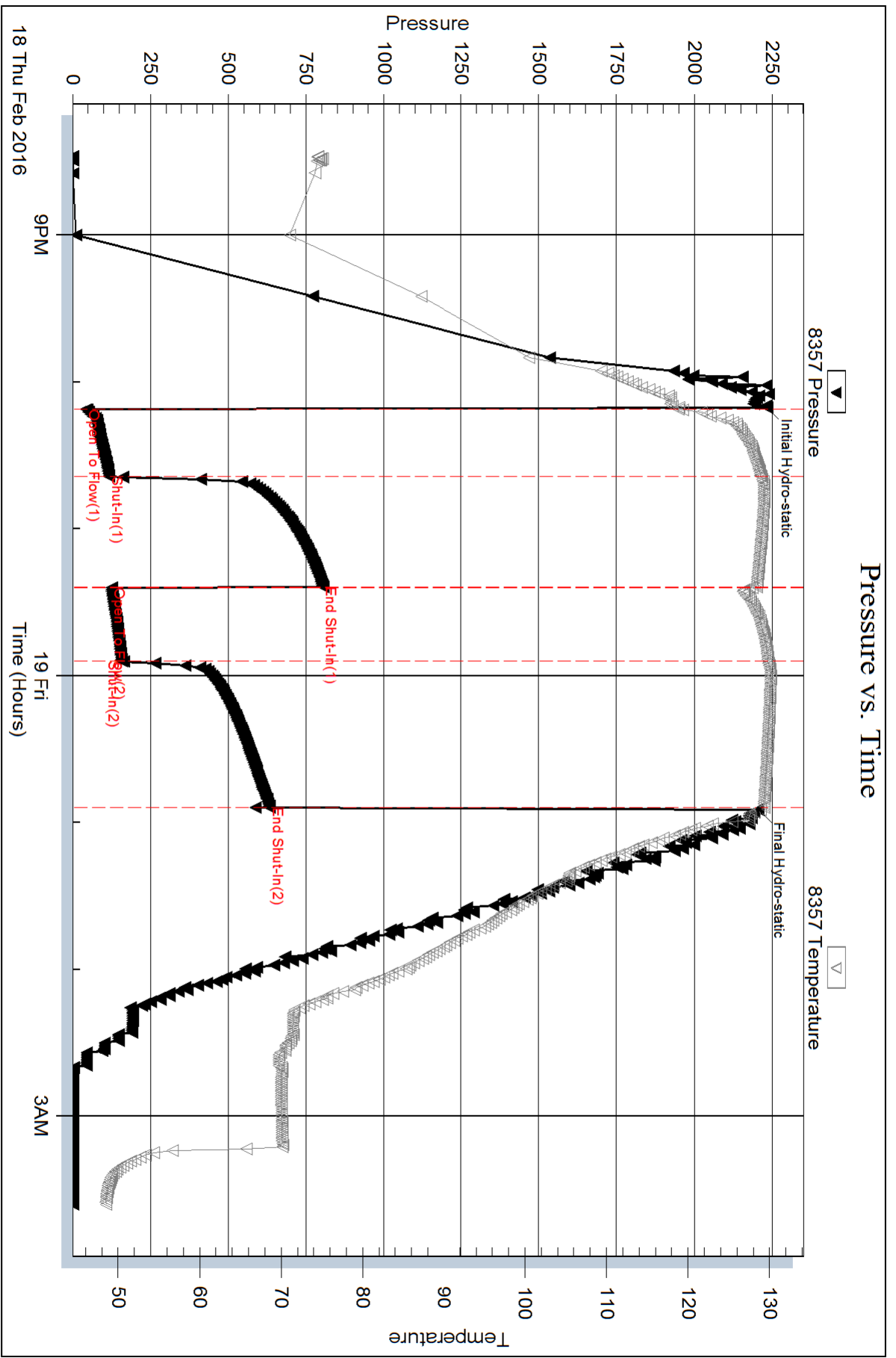
Serial #: 8357

Inside

Blue Goose Drilling Co., Inc.

Slaw at #4

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 64505

Printed: 2016.02.19 @ 07:24:35

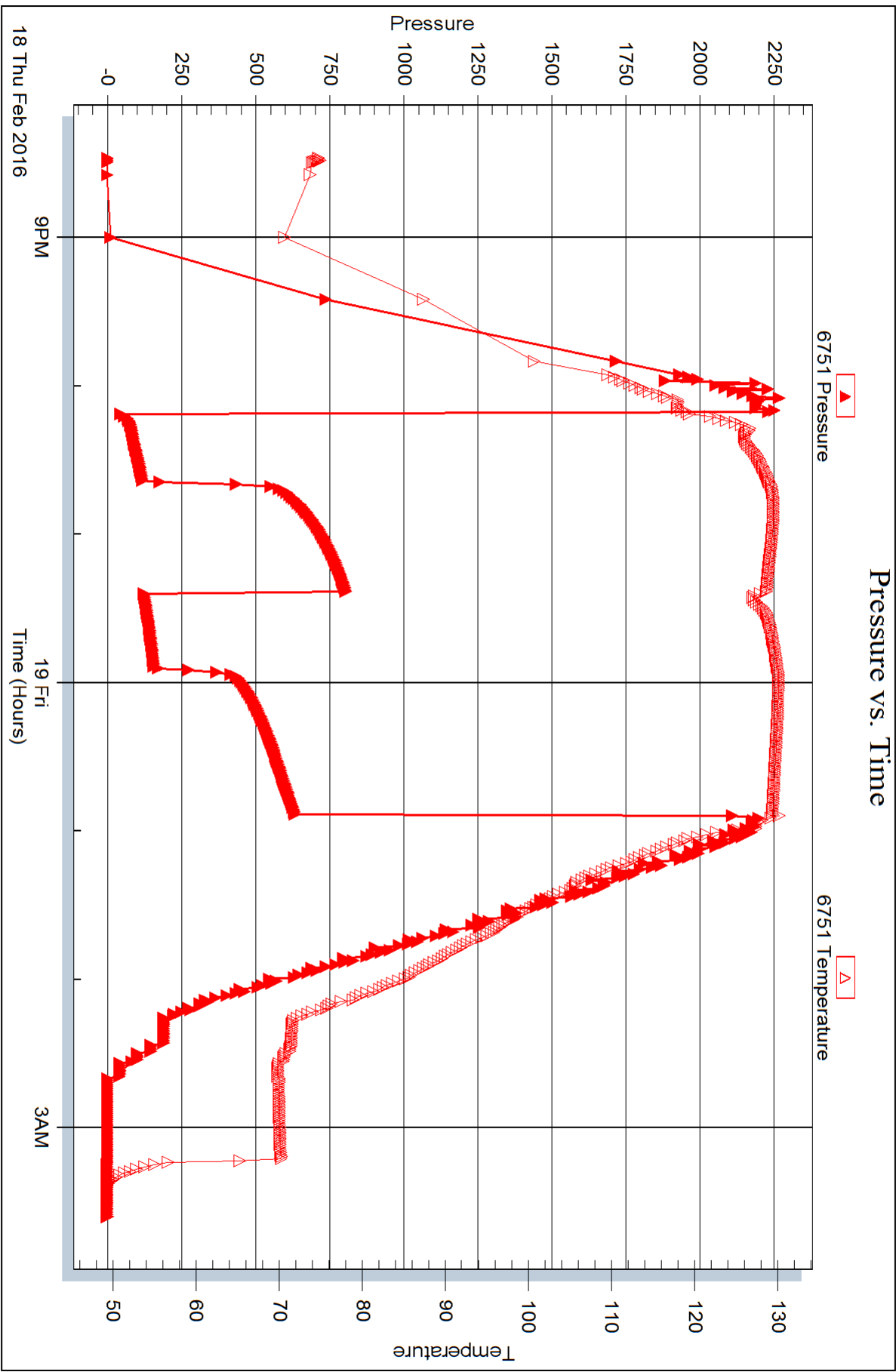
Serial #: 6751

Outside

Blue Goose Drilling Co., Inc.

Slaw at #4

DST Test Number: 3





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Blue Goose Drilling Co., Inc.

S5-20s-26w Ness/KS

POB 1413
Great Bend, KS 67530

Stiawalt #4

Job Ticket: 64506

DST#: 4

ATTN: Ken Wallace

Test Start: 2016.02.19 @ 12:41:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:58:10

Time Test Ended: 19:37:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 81

Interval: 4612.00 ft (KB) To 4626.00 ft (KB) (TVD)

Reference Elevations: 2639.00 ft (KB)

Total Depth: 4626.00 ft (KB) (TVD)

2630.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8357

Inside

Press @ Run Depth: 229.53 psig @ 4623.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.02.19

End Date:

2016.02.19

Last Calib.:

2016.02.19

Start Time: 12:41:02

End Time:

19:37:40

Time On Btm:

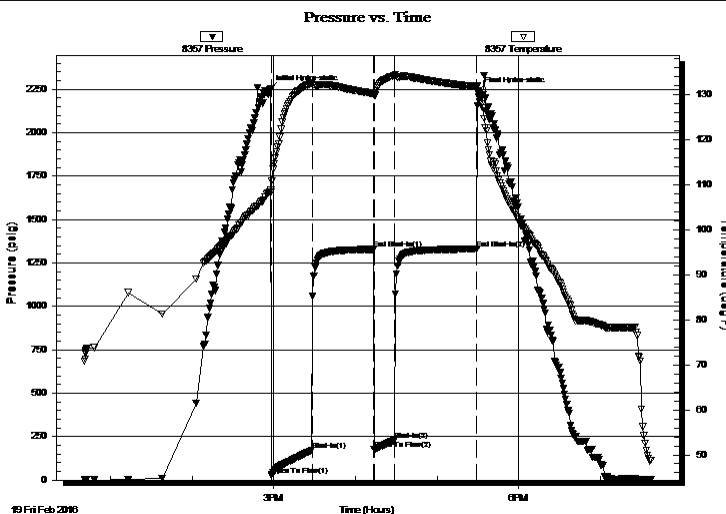
2016.02.19 @ 14:57:00

Time Off Btm:

2016.02.19 @ 17:30:00

TEST COMMENT: 30- B.O.B. @ 13 mn.
45- 1/2" Return.
15- B.O.B. @ 15 min.
60- 1/2" Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2246.46	108.50	Initial Hydro-static
2	28.83	108.40	Open To Flow (1)
32	172.43	132.69	Shut-In(1)
77	1328.57	130.29	End Shut-In(1)
77	176.74	129.78	Open To Flow (2)
92	229.53	134.32	Shut-In(2)
153	1329.90	131.79	End Shut-In(2)
153	2233.41	130.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	API: 32 @ 45 Degrees F = 34.	0.00
0.00	80' GIP	0.00
60.00	OSMW 20m 80w	0.30
312.00	OSMW5m 95w	3.83
63.00	GOCMW 5g 5o 25m 65w	0.88
45.00	GO 15g 85o	0.63

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Blue Goose Drilling Co., Inc.

S5-20s-26w Ness/KS

POB 1413
Great Bend, KS 67530

Stiawalt #4

Job Ticket: 64506

DST#: 4

ATTN: Ken Wallace

Test Start: 2016.02.19 @ 12:41:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:58:10

Time Test Ended: 19:37:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 81

Interval: 4612.00 ft (KB) To 4626.00 ft (KB) (TVD)

Total Depth: 4626.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2639.00 ft (KB)

2630.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6751 Outside

Press @ Run Depth: psig @ 4623.00 ft (KB)

Start Date: 2016.02.19

End Date: 2016.02.19

Start Time: 12:41:02

End Time: 19:37:40

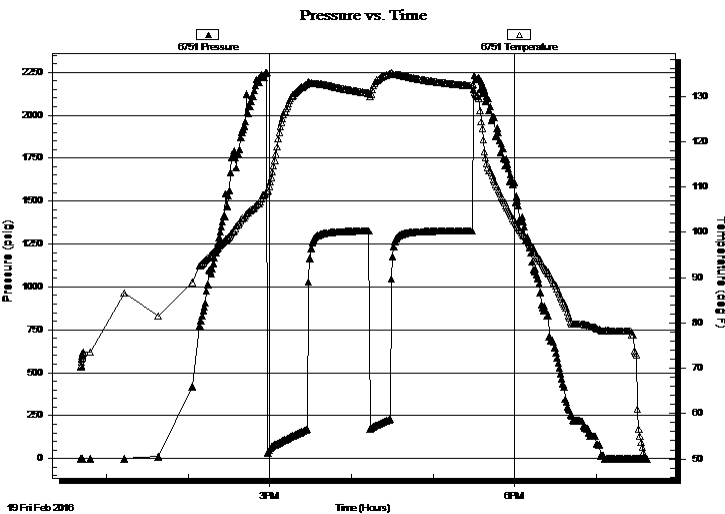
Capacity: 8000.00 psig

Last Calib.: 2016.02.19

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- B.O.B. @ 13 mn.
45- 1/2" Return.
15- B.O.B. @ 15 min.
60- 1/2" Return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	API: 32 @ 45 Degrees F = 34.	0.00
0.00	80' GIP	0.00
60.00	OSMW 20m 80w	0.30
312.00	OSMW5m 95w	3.83
63.00	GOCMW 5g 5o 25m 65w	0.88
45.00	GO 15g 85o	0.63

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Blue Goose Drilling Co., Inc.

S5-20s-26w Ness/KS

POB 1413
Great Bend, KS 67530

Stiawalt #4

Job Ticket: 64506

DST#: 4

ATTN: Ken Wallace

Test Start: 2016.02.19 @ 12:41:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 7.99 in³
Resistivity: 0.00 ohm.m
Salinity: 4500.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 34 deg API
Water Salinity: 37000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	API: 32 @ 45 Degrees F = 34.	0.000
0.00	80' GIP	0.000
60.00	OSMW 20m 80w	0.295
312.00	OSMW5m 95w	3.830
63.00	GOCMW 5g 5o 25m 65w	0.884
45.00	GO 15g 85o	0.631

Total Length: 480.00 ft Total Volume: 5.640 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW: .305 @ 45 Degrees F =37000 ppm

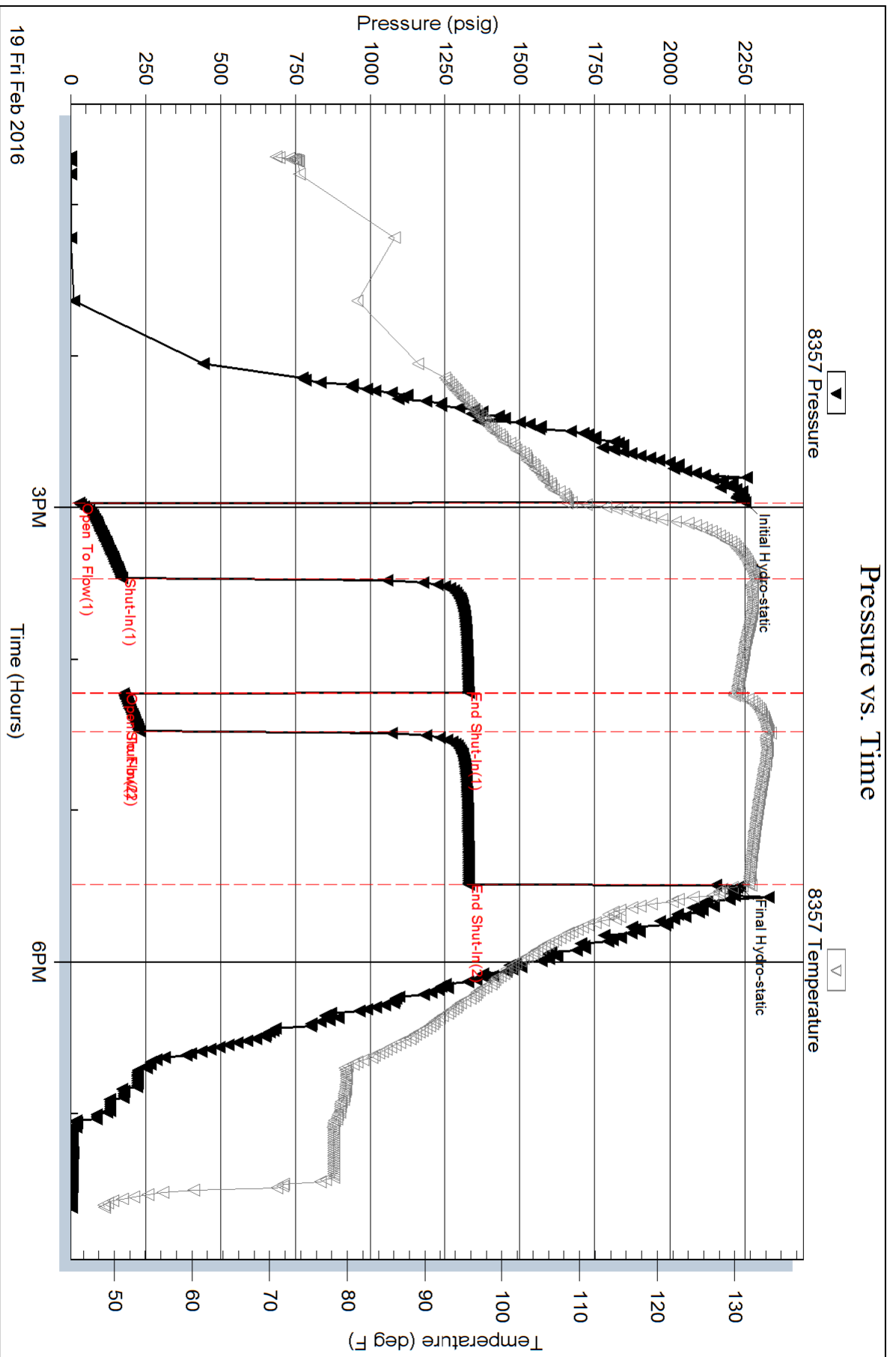
Serial #: 8357

Inside

Blue Goose Drilling Co., Inc.

Slaw at #4

DST Test Number: 4

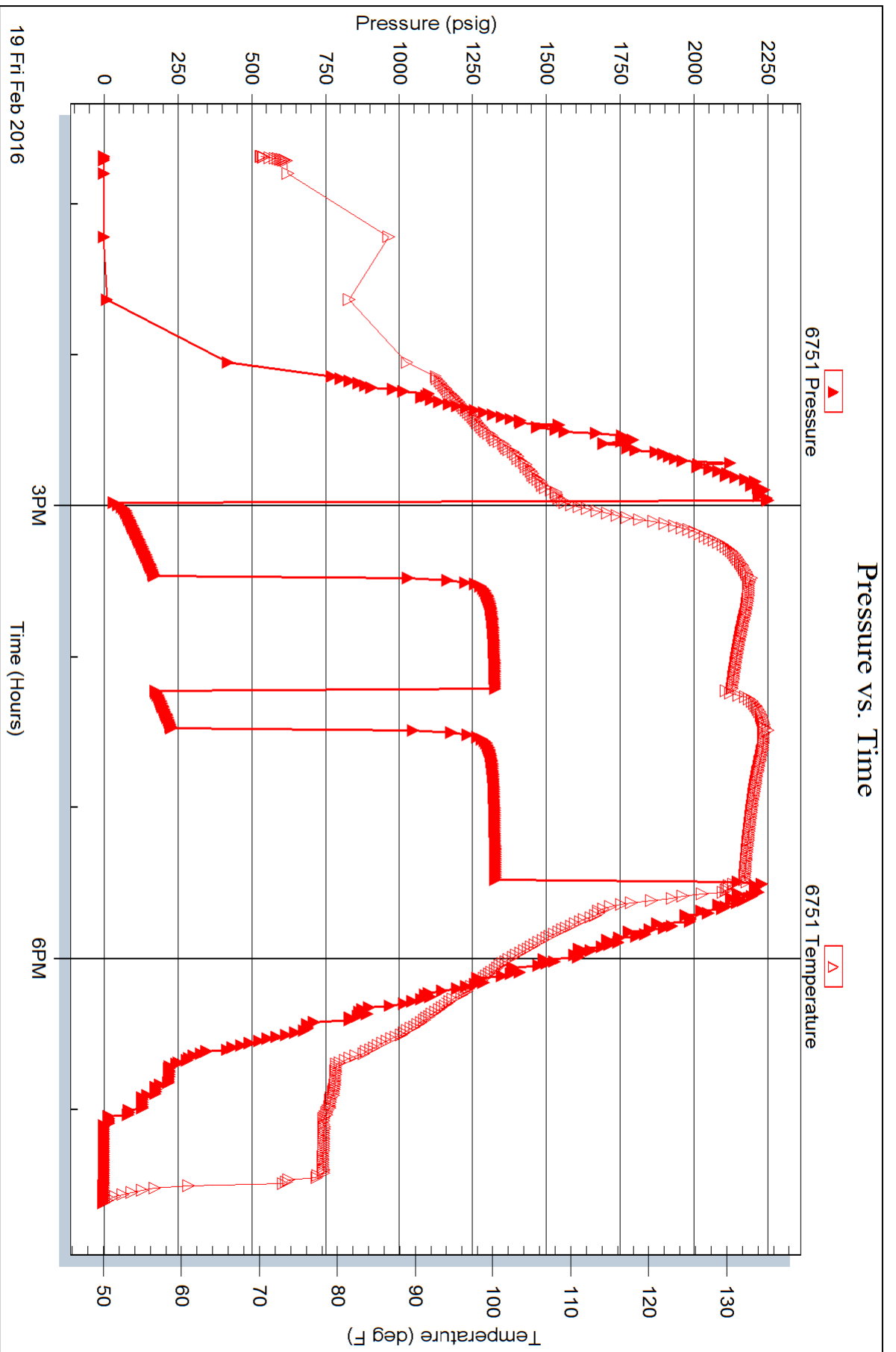


Serial #: 6751

Outside Blue Goose Drilling Co., Inc.

Slaw at #4

DST Test Number: 4



JOB LOG

SWIFT Services, Inc.

DATE 10 FEB 16 PAGE NO.

CUSTOMER BLUE GOOSE DR LG

WELL NO.

LEASE STAWALT # 4

JOB TYPE CEMENT SURFACE PIPE

TICKET NO. 29187

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	<u>0000</u>							<u>ON LOCATION</u>
								<u>8 5/8 20# RTD @ 257</u>
	<u>0256</u>							<u>CIRCULATE.</u>
	<u>0303</u>	<u>4</u>	<u>40</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>150</u>		<u>MIX 165SX STD 3% CC-2% GEL</u>
		<u>3 1/2</u>	<u>15 1/2</u>	<input checked="" type="checkbox"/>		<u>250</u>		<u>DISPLACE CEMENT</u> <u>CIRCULATE CEMENT TO SURFACE</u>
	<u>0325</u>							<u>SHUT WELL IN</u>
	<u>0330</u>							<u>WASH TRUCK</u>
	<u>0400</u>							<u>JOB COMPLETE</u>
								<u>THANKS #115</u>
								<u>JASON DAVE JOHN</u>



CHARGE TO: **BLUE GOOSE DRILL**
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 29187

PAGE 1 OF

SERVICE LOCATION 1. **NESS CITY, KS** WELL/PROJECT NO. **STAWAULT #4** LEASE **NESS** COUNTY/PARISH **NESS** STATE **KS.** CITY **BEELEER, KS.** DATE **10 FEB 16** OWNER
 2. **NESS CITY, KS** TICKET TYPE SERVICE SALES CONTRACTOR **HD DRILLING RIG #3** RIG NAME/NO. **NESS** SHIPPED VIA **DELIVERED TO** ORDER NO.
 3. WELL TYPE **DIL** WELL CATEGORY **DEVELOPMENT** JOB PURPOSE **CEMENT SURFACE PIPE** WELL PERMIT NO. **85,200,1NE/51510**
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT								
575				MILEAGE # 115	20	mil	1	500	500	5.00	100.00
576s				PUMP CHARGE			1	500	500	8.00	800.00
279				GEL			3	5X	75	25.00	75.00
278				CALCIUM CHLORIDE			7	5X	40	40.00	280.00
290				D-AIR			2	94	42	42.00	84.00
325				STANDARD CEMENT			1	05	18	25.00	202.10
581				CEMENT SERVICE CHARGE			1	05	1	50	247.50
582				MINIMUM DRAYAGE			1	05	1	250.00	250.00

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

DATE SIGNED **10 FEB 16** TIME SIGNED **0400** A.M. P.M.

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

WE UNDERSTOOD AND MET YOUR NEEDS?

OUR SERVICE WAS PERFORMED WITHOUT DELAY?

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

NESS CO. TAX 65910
 TOTAL 4017.67

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR

APPROVAL

[Signature]

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 20 Feb 16 PAGE NO.

CUSTOMER Bluehorse Drilling WELL NO. #4 LEASE Stewart JOB TYPE cement lining TICKET NO. 29101

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								155 sk SA-2 cement w/ <u>ALSO</u> TE's Floclor 5 1/2 x 17" casing TD - 4698' 112 jts shoe j+ 34.33' PC - 1870'
	2030							on loc TRK 114
	2150							Drop ball - circulate - ROTATE
	2300		5					Pump 5 bbl KCL flush
			12					Pump 500 gal Floclor 21
			15					Pump 15 bbl KCL flush
	2306		7					Plug RH - 30sk
	2309	3 1/2	31			250		MIX SA-2 cement 125 sk @ 15.3 ppg
								Drop latch down plug Wash out pump & line
	2328	6				250		Displace plug
		6	99			750		
Feb 21	0000	6	109			1500		Land plug
								Release pressure to truck - dried up
	0005							wash truck
	0025							Rack up
	0030							job complete flush Blaine, Flint, & GARD



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

TICKET CONTINUATION

TICKET No. 29101

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	LOG	ACCT	DF	TIME	DESCRIPTION	WELL		DATE	UNIT PRICE	AMOUNT
							QTY	U/M			
325		1				Standard cement (For 2A-2)	155	cu	20 Feb 16	12.25	1898.75
284		1				Calseal	700	lb		30.00	210.00
283		1				SALT	800	lb		20.00	160.00
292		1				Holod-322	150	lb		8.00	1200.00
277		1				G-15sm76	1085	lb		0.75	813.75
276		1				Flocelo	25	lb		28.5	56.25
588		1				Dragee (Wind)				250.00	250.00
581		1				SERVICE CHARGE				1.50	232.50
						MILEAGE CHARGE	17330				
						TOTAL WEIGHT	15532				
						LOADED MILES					
						CUBIC FEET	1.20				
						TEN MILES					

CONTINUATION TOTAL 489.25



CHARGE TO: *Blue Goose Drilling*

ADDRESS:

CITY, STATE, ZIP CODE:

TICKET 29101

PAGE 1 OF 2

SERVICE LOCATIONS 1. *Neosho KS*

WELL/PROJECT NO. *44* LEASE *Stoumalt* COUNTY/PARISH *Ness* STATE *KS* CITY *Beeler* DATE *80 Feb 16* OWNER

TICKET TYPE SERVICE SALES CONTRACTOR *H-D* RIG NAME/NO. SHIPPED *CT* DELIVERED TO *location* ORDER NO.

WELL TYPE *oil* WELL CATEGORY *Development* JOB PURPOSE *cement long string* WELL PERMIT NO. WELL LOCATION *5-20-26*

REFERRAL LOCATION INVOICE INSTRUCTIONS *5 1/2" x 17"*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE TRK 114	25	mi			5.00	125.00
578		1			Pump Charge	1	hr			1250.00	1250.00
280		1			Flocheck 21	500	gal			3.00	1500.00
221		1			KCL liquid	2	gal			25.00	50.00
290		1			D-AIR	2	gal			42.00	84.00
419		1			Rotating head rental	5 1/2	in	1	hr	200.00	200.00

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

DATE SIGNED _____ TIME SIGNED _____ A.M. P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.

P.O. BOX 466

NESS CITY, KS 67560

785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL 3209.00

~~4821.85~~

8030.25

Ness Co TAX 6.5% 397.98

TOTAL 8428.23

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

SWIFT OPERATOR *Agall*

APPROVAL _____

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 2-25-16 PAGE NO.

CUSTOMER Blue Cross WELL NO. B 4 LEASE Stewart JOB TYPE Cement 5 1/2" Port Collar TICKET NO. 29149

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1015							on location
								P.C. - 1870 2 3/8 x 5 1/8 225 sks SMD w/ 1/4" Flo
	1115	∅	∅		✓		1000	pressure test * Hold *
	1215							open P.C.
	1220	3	5		✓		400	Injection Rate
	1225	4	83		✓		350	mix 150 sks SMD w/ 1/4 Flo circulate Cement to pit * 20 sks *
	1245	4	7		✓		400	Displace Cement
	1250	∅	∅				1000	Close P.C. * Hold *
								Run 4 jts * total = 150 sks * * Pit = 20 sks *
	1300	3 1/2	20		✓		400	Reverse Clean
								Wash up trucks
	1330							Job Complete

Thank You
Dave Jason Dusty



CHARGE TO: Blue Goose Drilling
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

TICKET 29149
 PAGE 1 OF 1

SERVICE LOCATIONS: Ness City KS WELL/PROJECT NO: #4 LEASE: Stewart COUNTY/PARISH: Ness STATE: KS CITY: Beeler DATE: 2-25-16 OWNER: Same

TICKET TYPE: SERVICE CONTRACTOR: Fritzel Trucking RIG NAME/NO: _____ ORDER NO: _____

SALES: WELL TYPE: Oil WELL CATEGORY: Development JOB PURPOSE: Cement 5 1/2" Port collar SHIPPED VIA: Truck DELIVERED TO: Location

REFERRAL LOCATION: _____ INVOICE INSTRUCTIONS: _____ WELL PERMIT NO: _____ WELL LOCATION: Beeler - 9s, 2 leg 1 1/2 leg Ends

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575					Trk # 115			25	hrs		5.00	125.00
576 D					Pump Change - Port Collar			1	job		1250.00	1250.00
330					SMD Cement			150	lbs		15.75	2362.50
276					Fluore			40	lbs		2.25	90.00
290					D-Air			2	gal		42.00	84.00
105					Port Collar Tool Rental			5 1/2	in		1.00	275.00
581					Service Change Cement			225	skt		1.50	337.50
582					Minimum Drayage Charge			1	leg		250.00	250.00

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

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

WE UNDERSTOOD AND MET YOUR NEEDS?

OUR SERVICE WAS PERFORMED WITHOUT DELAY?

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: 4774.00

TAX: 182.95

TOTAL: 4956.95

DATE SIGNED: 2-25-16 TIME SIGNED: 1:30 P.M.

SWIFT OPERATOR: David Huelin

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

APPROVAL: _____

Thank You!

SWIFT



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



Invoice

DATE	INVOICE #
2/25/2016	29149

BILL TO
Blue Goose Drilling Co. Inc. PO Box 1413 Great Bend, KS 67530-1413

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#4	Stiawalt	Ness	Fritzler Trucking	Oil	Development	Cement Port Collar	David K.

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	25	Miles	5.00	125.00
576D-D	Pump Charge - Deep Surface (> 500 Ft.) & Port Collars	1	Job	1,250.00	1,250.00
330	Swift Multi-Density Standard (MIDCON II)	150	Sacks	15.75	2,362.50T
276	Flocele	40	Lb(s)	2.25	90.00T
290	D-Air	2	Gallon(s)	42.00	84.00T
105	Port Collar Tool Rental With Man	1	Each	275.00	275.00T
581D	Service Charge Cement	225	Sacks	1.50	337.50
582D	Minimum Drayage Charge	1	Each	250.00	250.00
	Subtotal				4,774.00
	Sales Tax Ness County			6.50%	182.75

We Appreciate Your Business!	Total	\$4,956.75
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**Computer Processed
Interpretation**

Company BLUE GOOSE DRILLING CO., INC
Well STIAWALT #4
Field STIAWALT
County NESS
State KANSAS

Company BLUE GOOSE DRILLING CO., INC.
Well STIAWALT #4
Field STIAWALT
County NESS State KANSAS

Location: API #: 15-135-25901-00-00
1777' FNL & 990' FWL
SEC 5 TWP 20S RGE 26W
Permanent Datum GROUND LEVEL Elevation 2630'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING
Other Services
DIL/CNL/CDL
MEL
Elevation
K.B. 2639'
D.F. N/A
G.L. 2630'

Date Recorded	2/20/2016	Curve Definitions
Depth Logger	4698'	
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. HENRICKSON	
Witnessed By	KEN WALLACE	
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.
BEELER, KS.
SOUTH 8 MILES TO 50 RD. 2 WEST. 1 NORTH,
EAST INTO.

Log Measured From: KELLY BUSHING 9 Ft. Above Permanent Datum

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

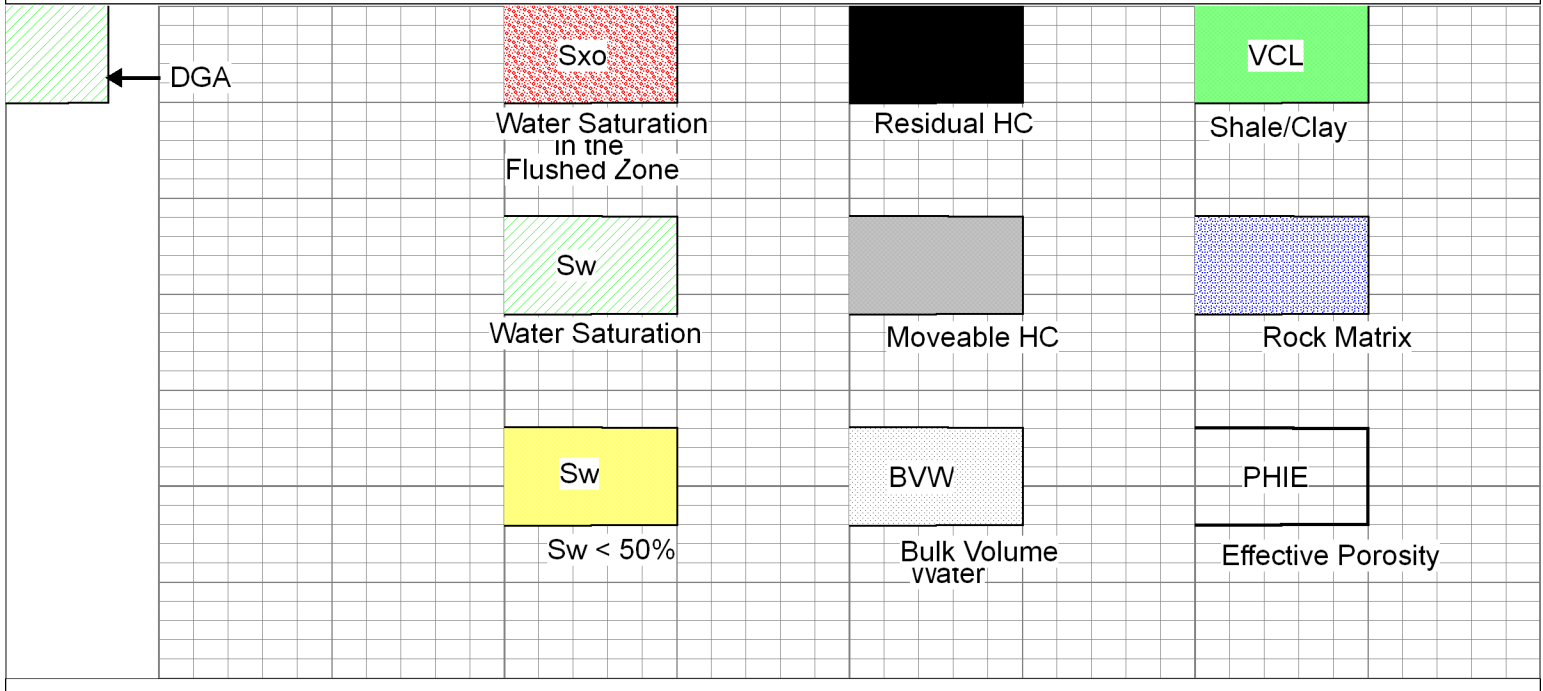
Your Pioneer Energy Services Crew

Engineer: J. HENRICKSON
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

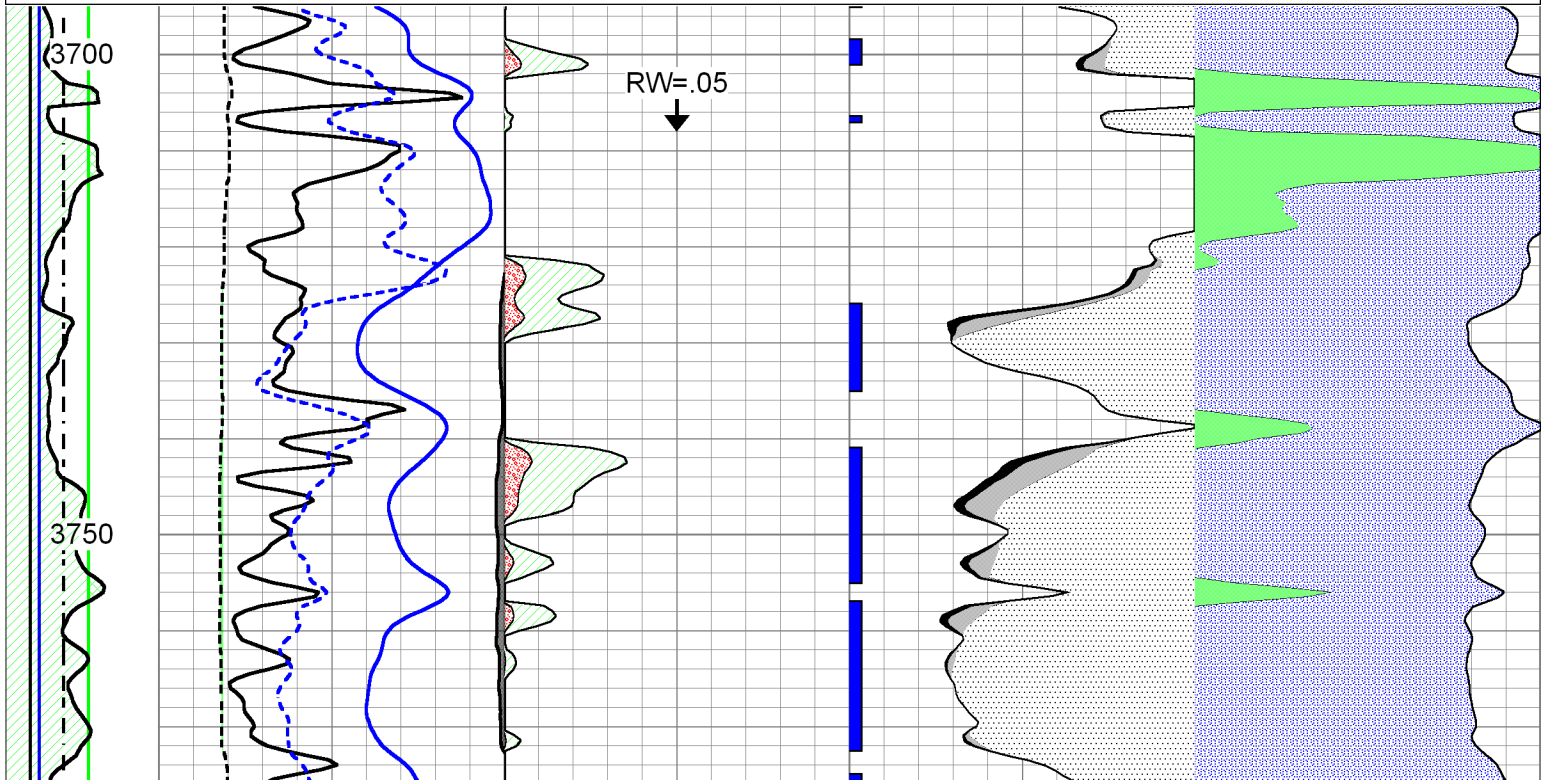
Primary Witness: KEN WALLACE
Secondary Witness:
Secondary Witness:
Secondary Witness:

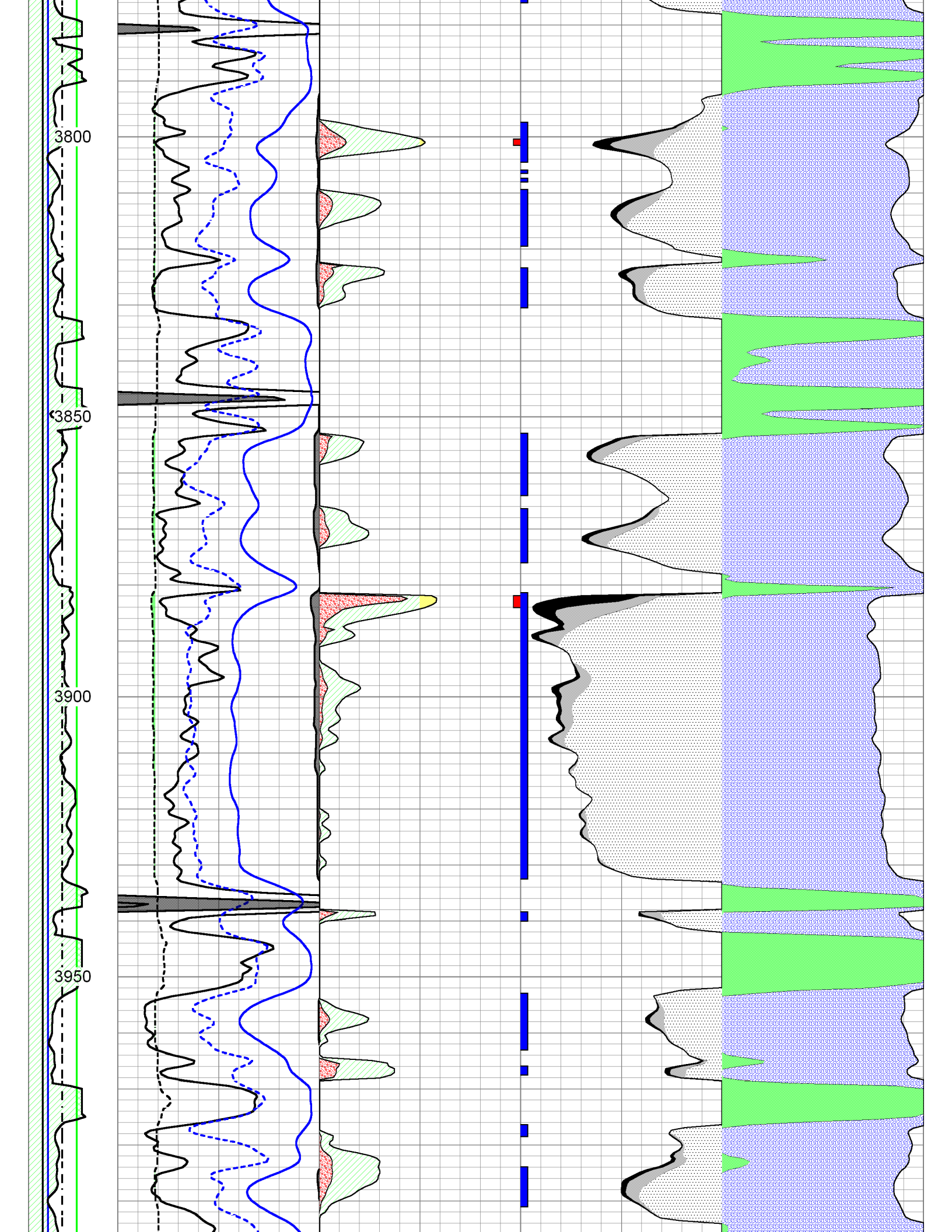
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 Presentation Format 2wxplt
 Dataset Creation Thu Apr 24 13:32:02 1997
 Charted by Depth in Feet scaled 1:240

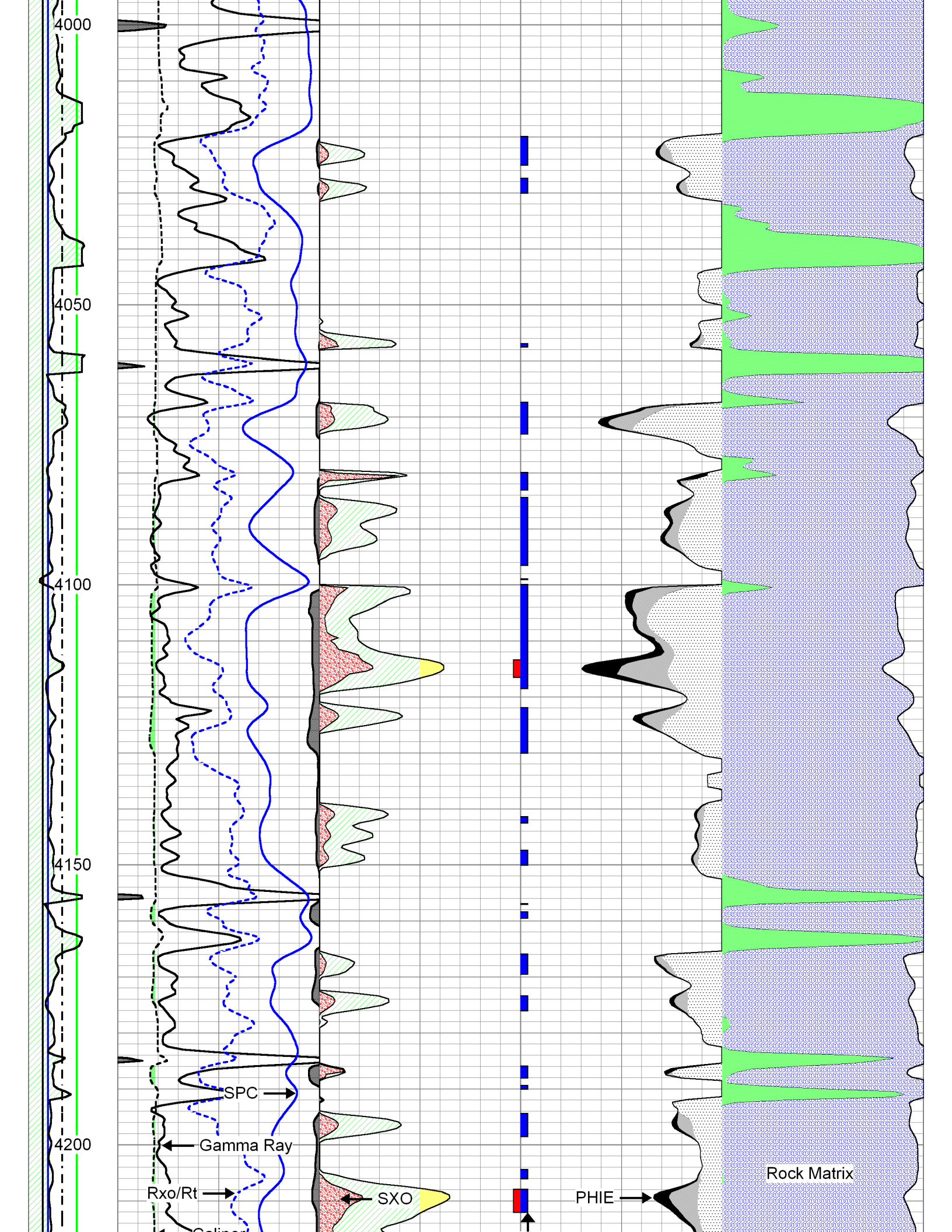


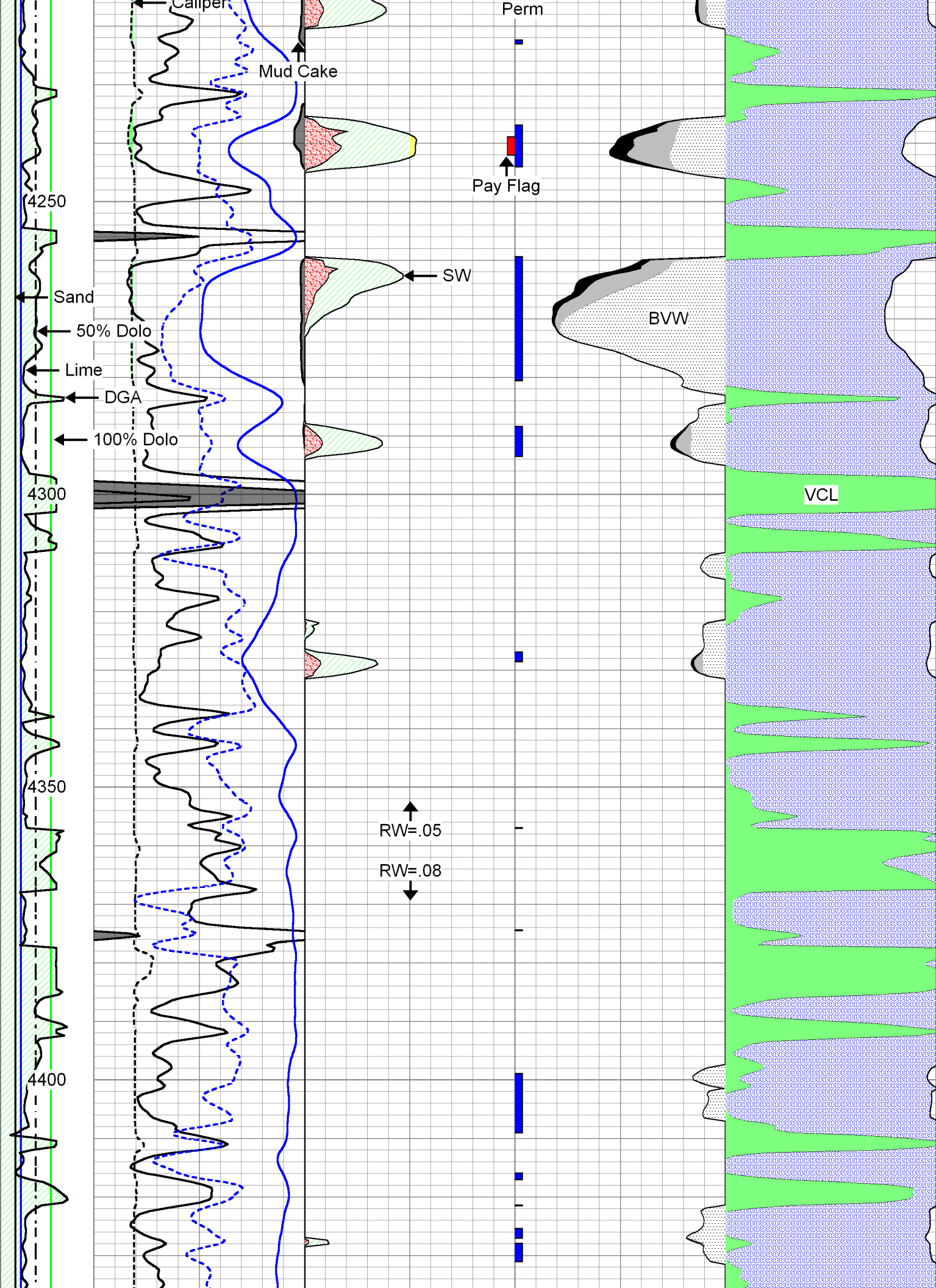
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 Presentation Format calc
 Dataset Creation Sat Feb 20 08:49:59 2016
 Charted by Depth in Feet scaled 1:240

DGA	Gamma Ray	1	SW	0	0.3	PHIE	0	0	VCL	1
(g/cc)	(GAPI)	150	PAYFLAG	0	0.3	BVW	0	1	PHIE	0
2.6 3.1	6	DCAL (in)	16	1	SXO	0	0	PERM	30	
	-150	SPC	0			0.3	BVWSXO	0		









Mud Cake

Pay Flag

SW

BVW

VCL

RW=.05

RW=.08

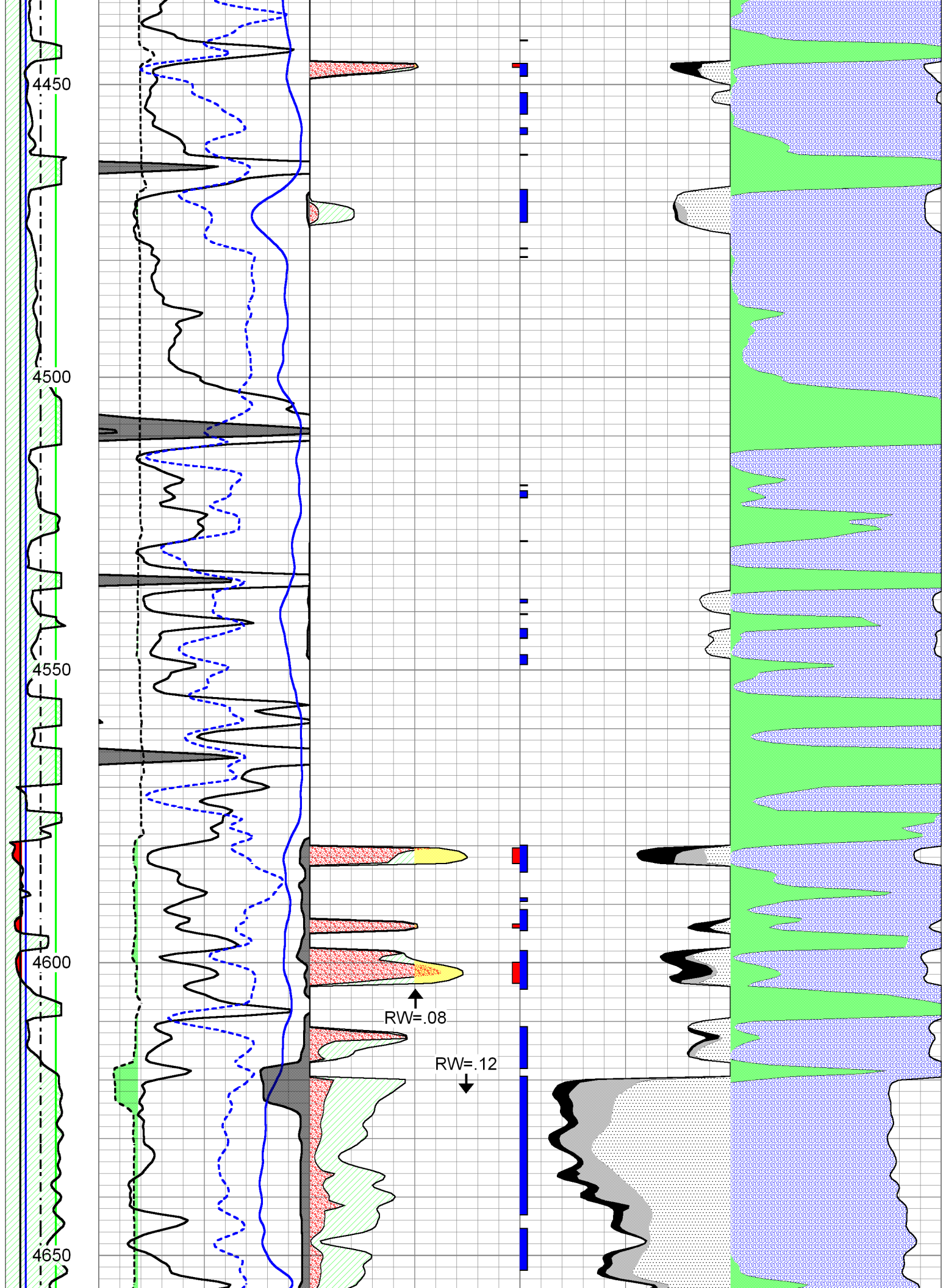
4250

4300

4350

4400

Sand
50% Dolo
Lime
DGA
100% Dolo



DGA (g/cc)	Gamma Ray (GAPI)	150	1	SW	0	0.3	PHIE	0	0	VCL	1
2.6	3.1	6	30	PAYFLAG	0	0.3	BVW	0	1	PHIE	0
		DCAL (in)	16	1	SXO	0	0	PERM	30		
		-150				0.3	BVWSXO	0			
		SPC	0								



DUAL INDUCTION LOG

Company BLUE GOOSE DRILLING CO., INC.
 Well STIAWALT #4
 Field STIAWALT
 County NESS
 State KANSAS

Company BLUE GOOSE DRILLING CO., INC.
 Well STIAWALT #4
 Field STIAWALT
 County NESS
 State KANSAS

Location: 1777' FNL & 990' FWL
 API #: 15-135-25901-00-00
 Permanent Datum GROUND LEVEL Elevation 2630'
 Log Measured From KELLY BUSHING
 Drilling Measured From KELLY BUSHING
 SEC 5 TWP 20S RGE 26W
 Other Services
 CNL/CDL
 MEL
 Elevation
 K.B. 2639'
 D.F. N/A
 G.L. 2630'

Date	2/20/2016
Run Number	ONE
Depth Driller	4700'
Depth Logger	4698'
Bottom Logged Interval	4697'
Top Log Interval	250'
Casing Driller	8.625" @ 254'
Casing Logger	252'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	4000
Density / Viscosity	9.2 50
pH / Fluid Loss	10.5 8.0
Source of Sample	Flowline
Rm @ Meas. Temp	0.40 @ 41
Rmt @ Meas. Temp	0.30 @ 41
Rmc @ Meas. Temp	0.54 @ 41
Source of Rmf / Rmc	Charts
Rm @ BHT	0.13 @ 123
Operating Rig Time	3 HOURS
Max Rec. Temp. F	123 DEGF
Equipment Number	108
Location	Hays
Recorded By	J. HENRICKSON
Witnessed By	KEN WALLACE

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Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
 BEELER, KS.
 SOUTH 8 MILES TO 50 RD. 2 WEST. 1 NORTH,
 EAST INTO.

Log Measured From: KELLY BUSHING 9 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew Engineer: J. HENRICKSON Operator: Operator: Operator:	This Log Record Was Witnessed By Primary Witness: KEN WALLACE Secondary Witness: Secondary Witness: Secondary Witness:
---	--

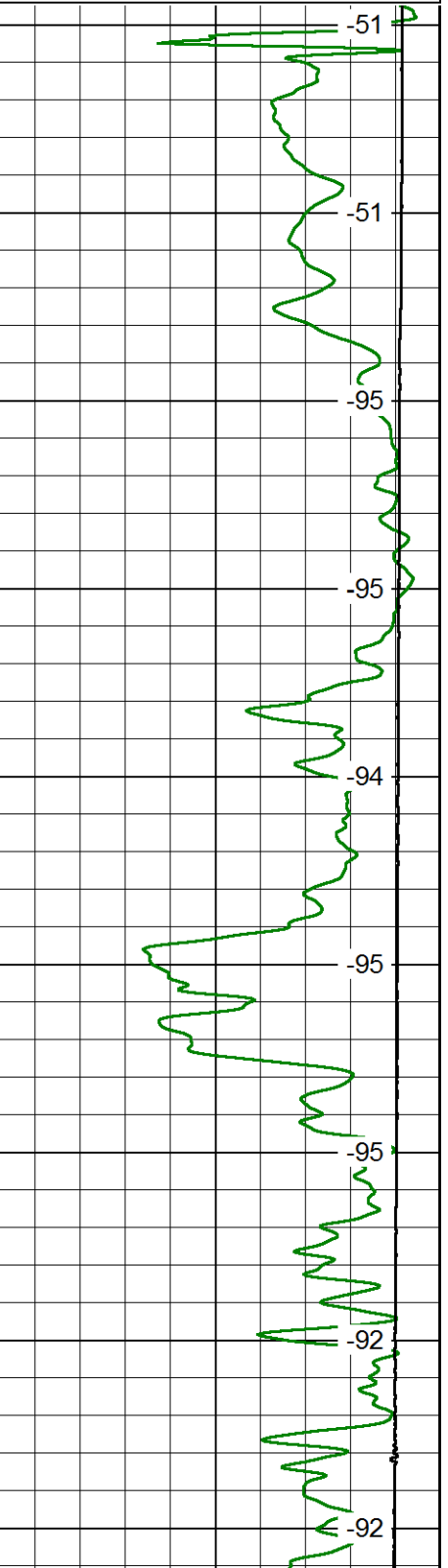
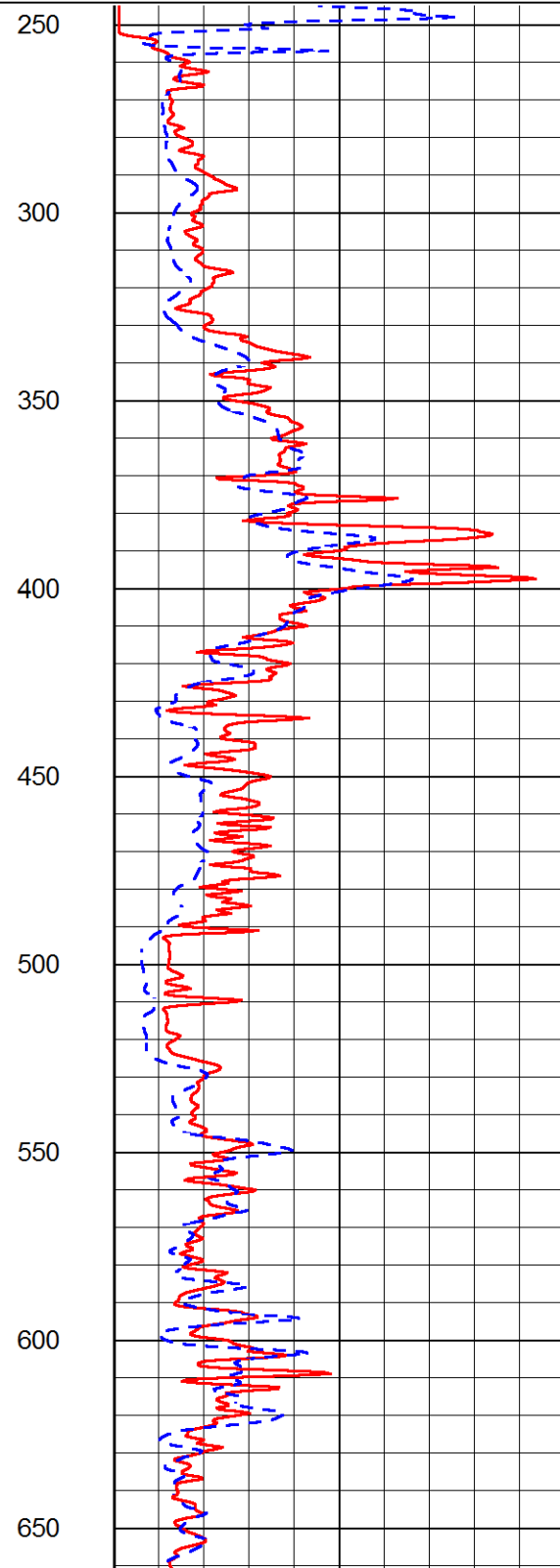
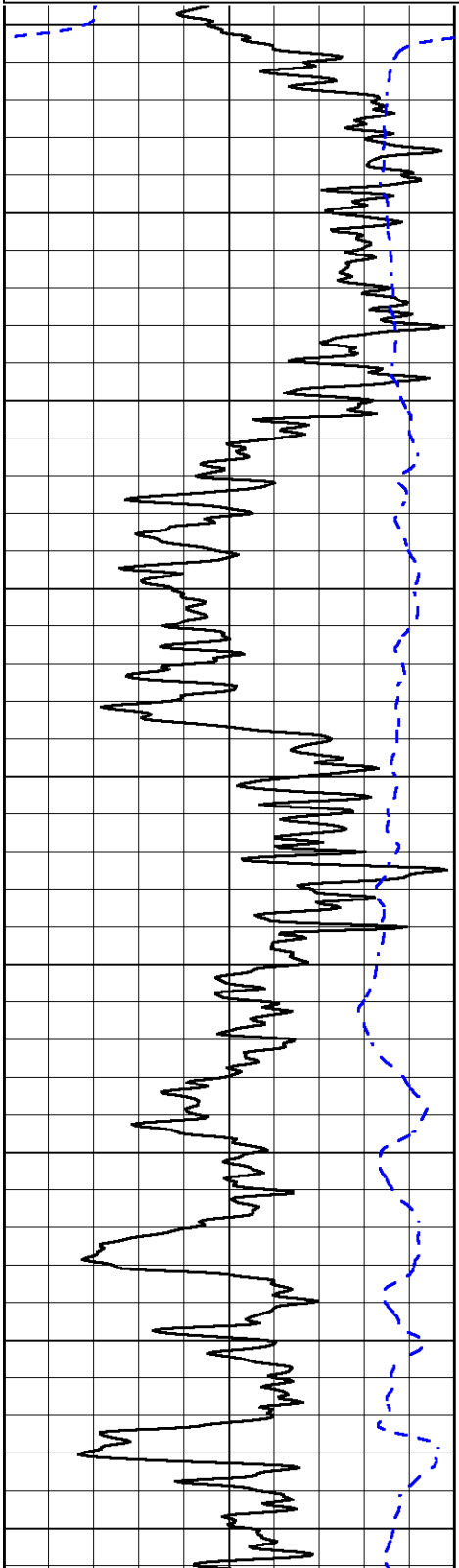
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 Dataset Pathname DIL/bluestkml
 Presentation Format dil2in
 Dataset Creation Sat Feb 20 07:42:53 2016
 Charted by Depth in Feet scaled 1:600

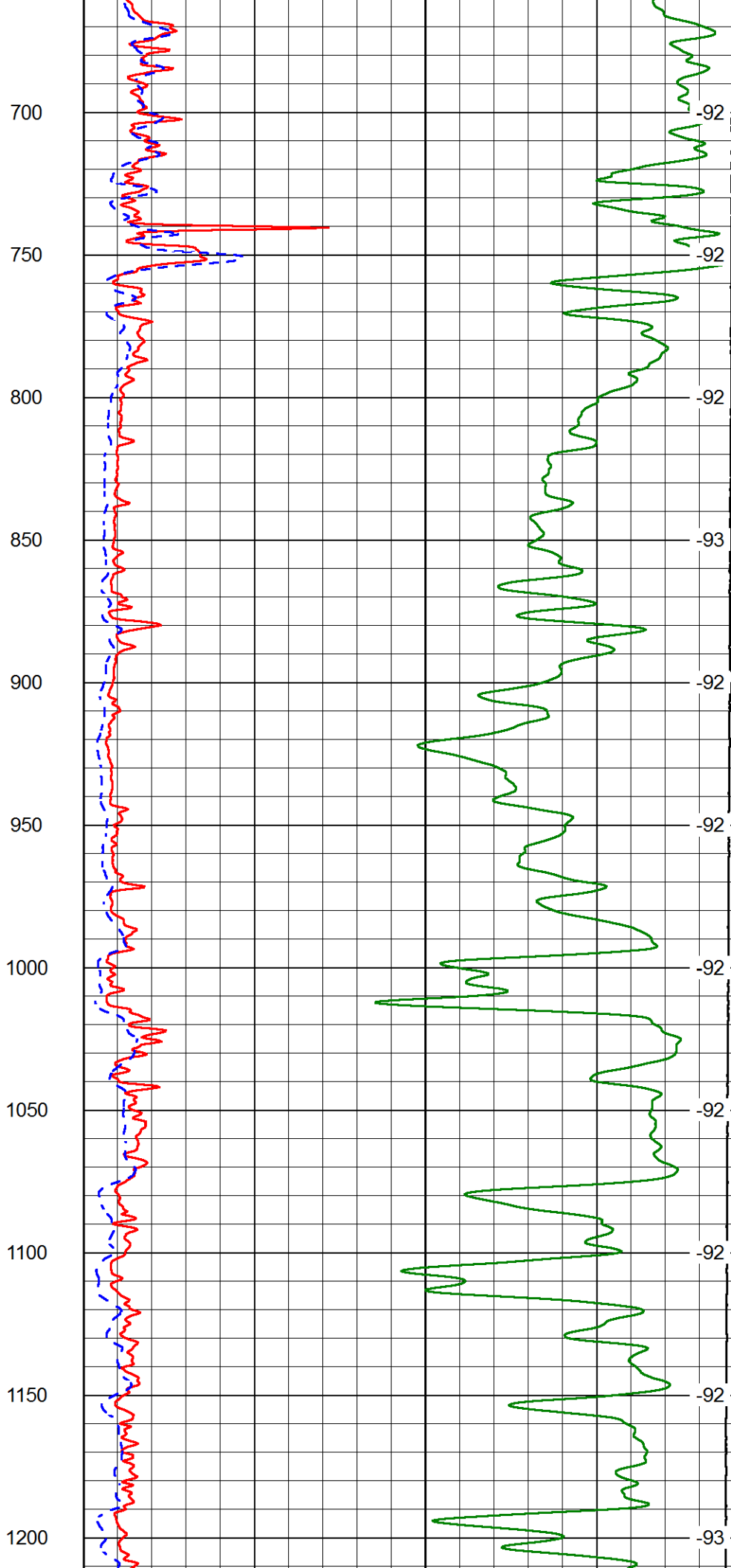
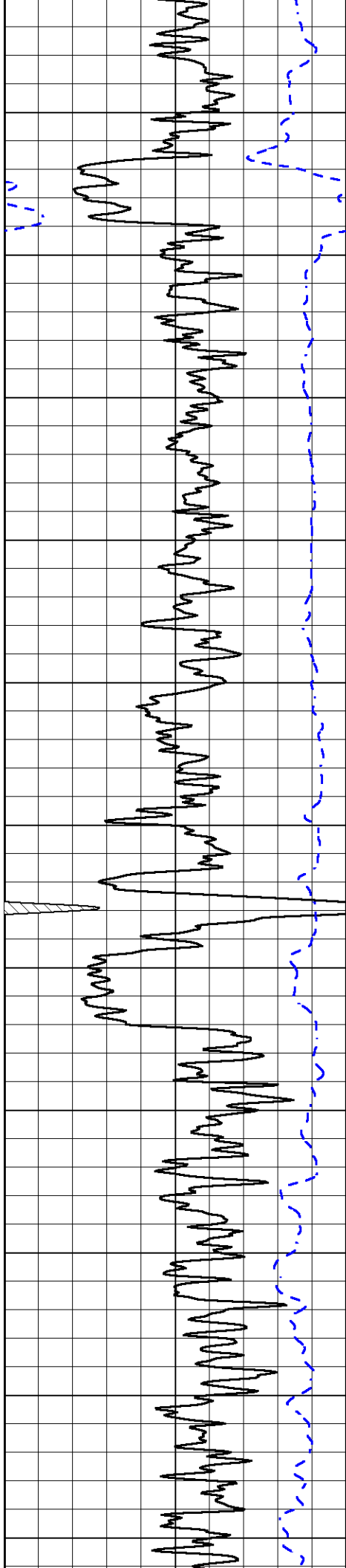
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 -200 SP (mV) 0

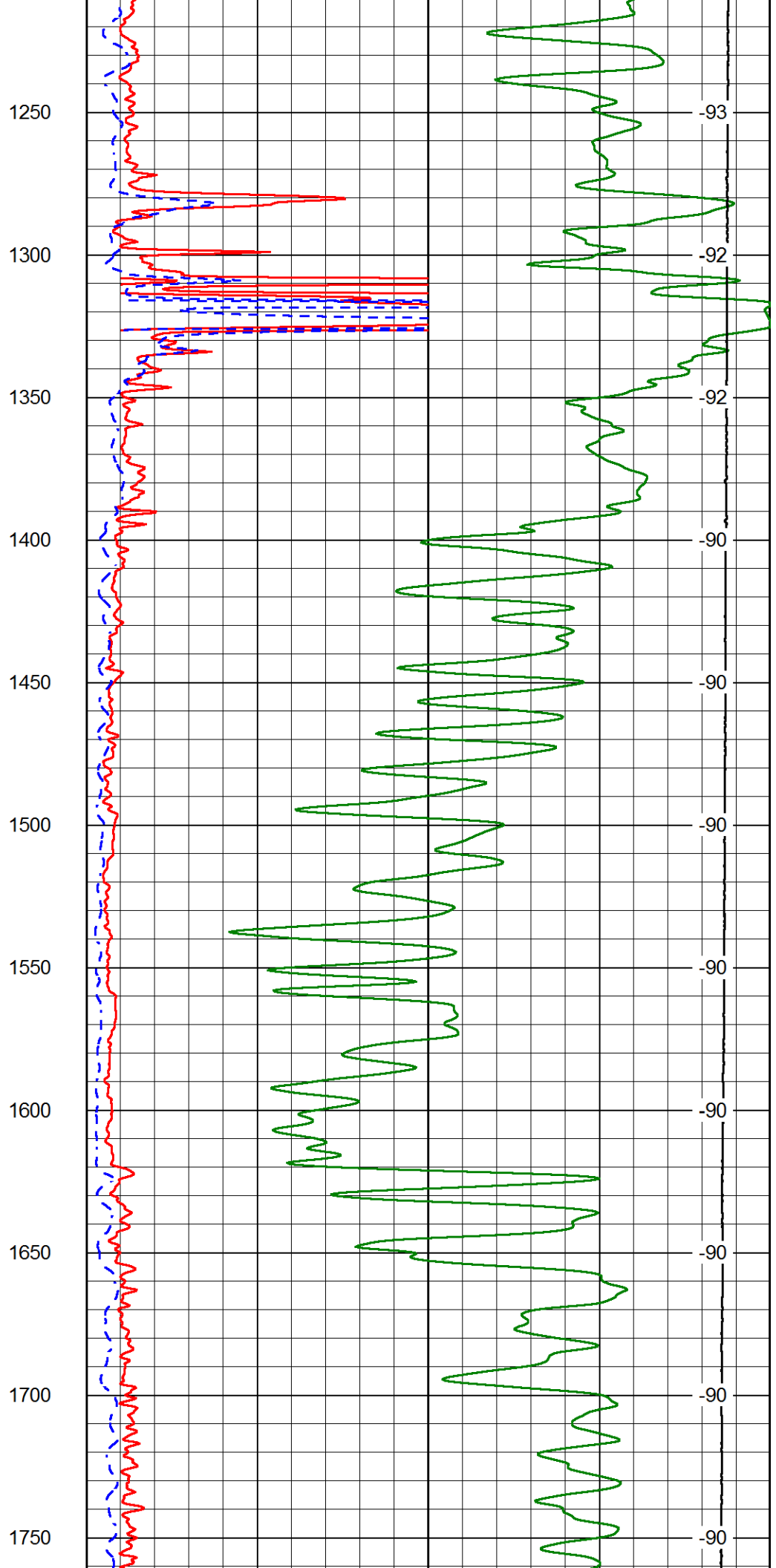
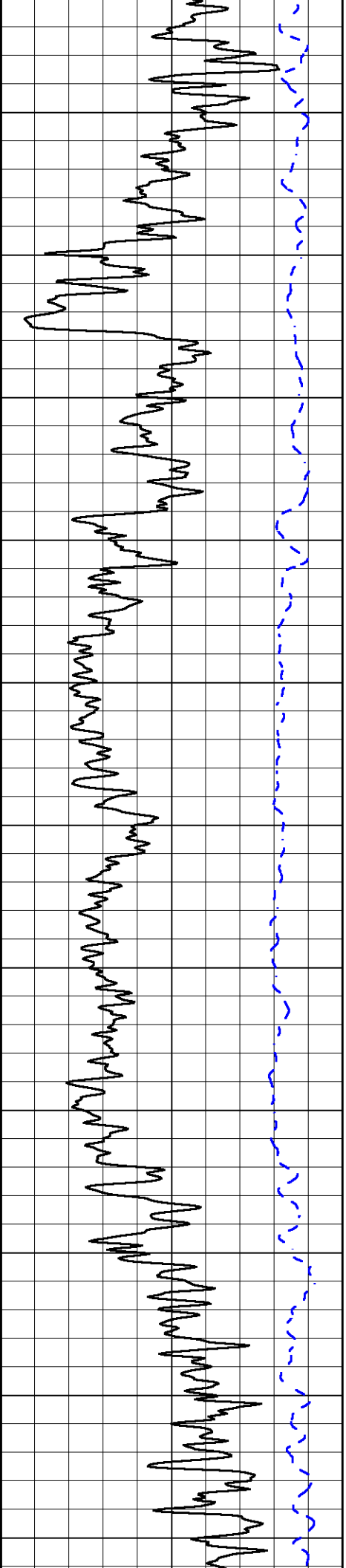
1000 Conductivity 0
 15000 Line Tension (lb) 0

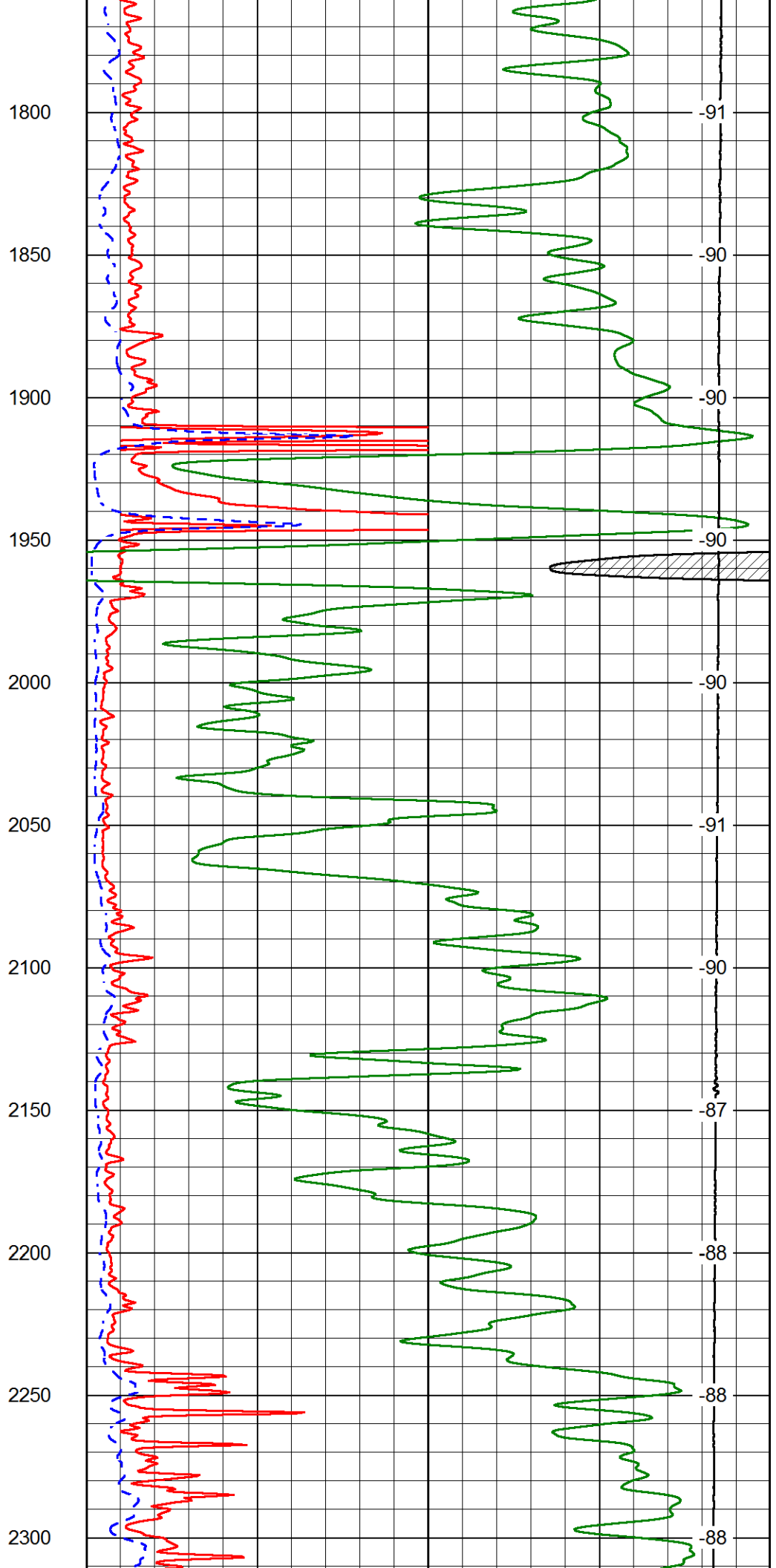
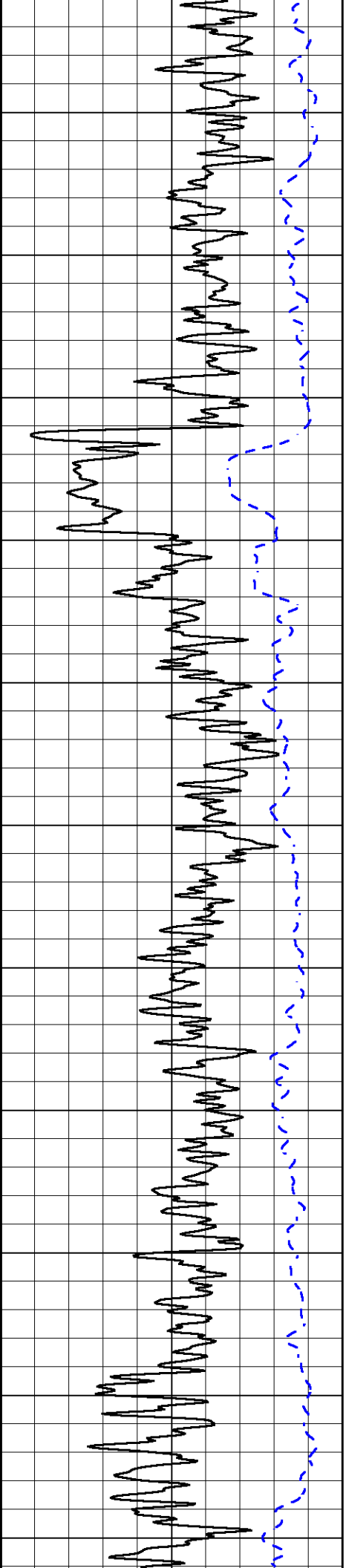
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 0 Deep Resistivity (Ohm-m) 50
 Shallow Resistivity
 50 (Ohm-m) 500
 50 Deep Resistivity (Ohm-m) 500

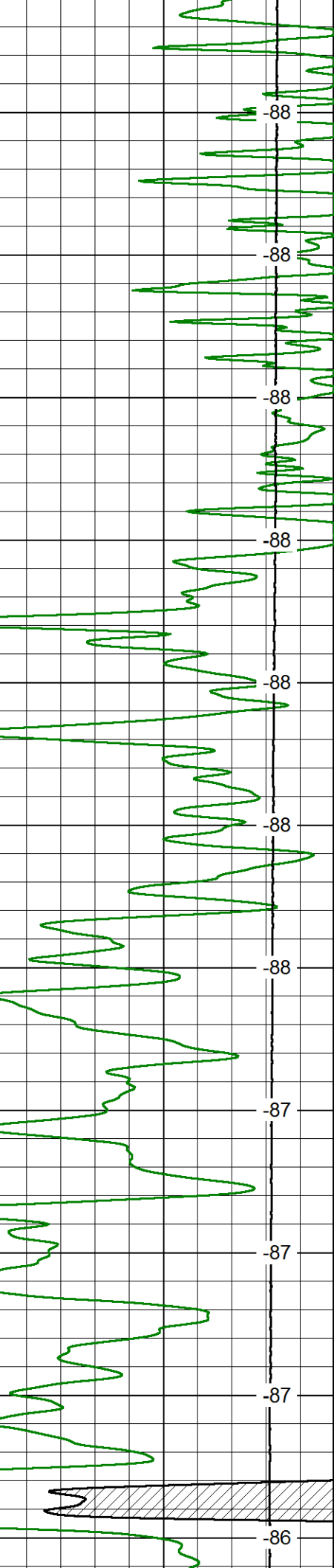
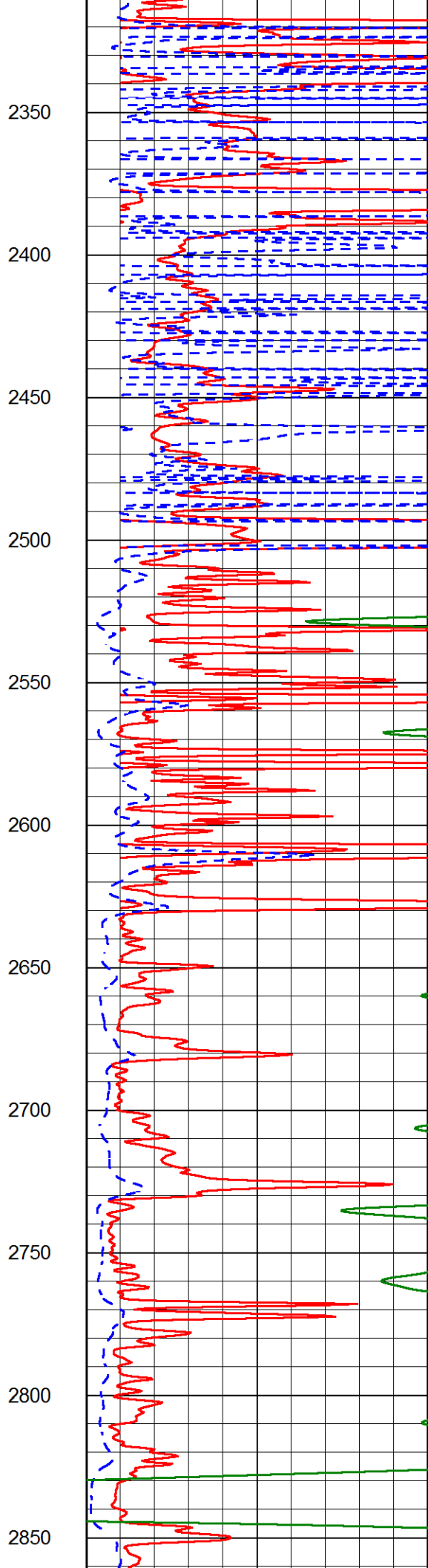
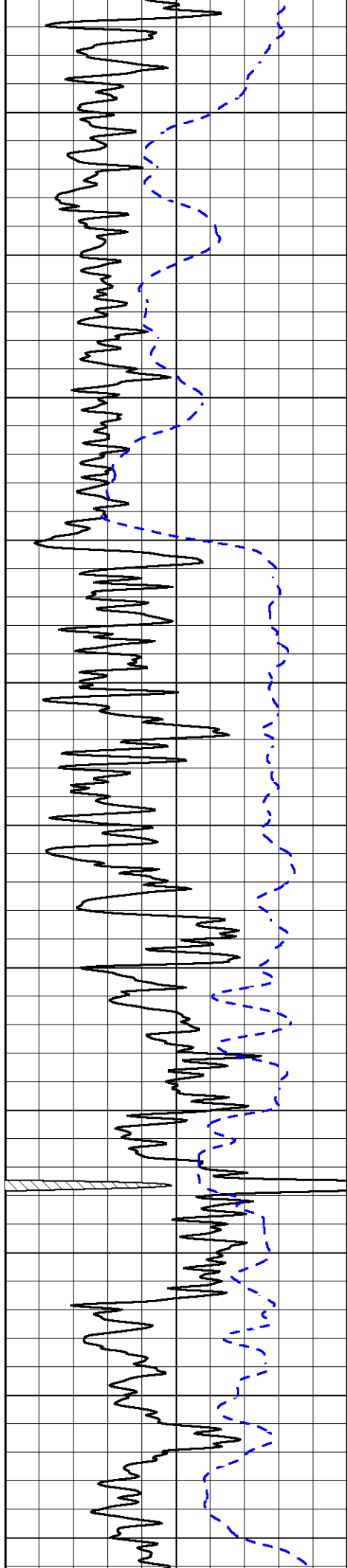
LSPD
 (ft/min)

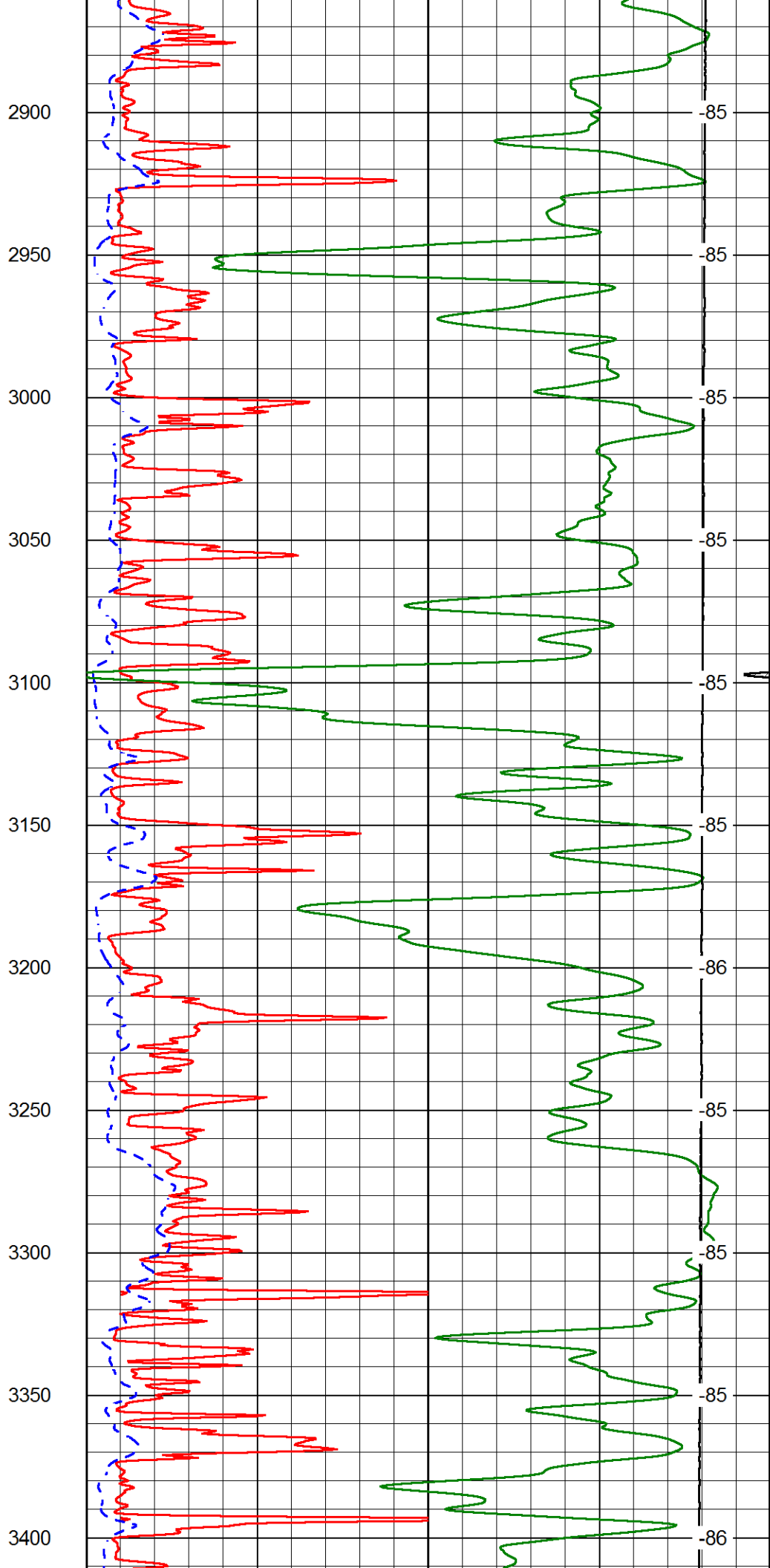
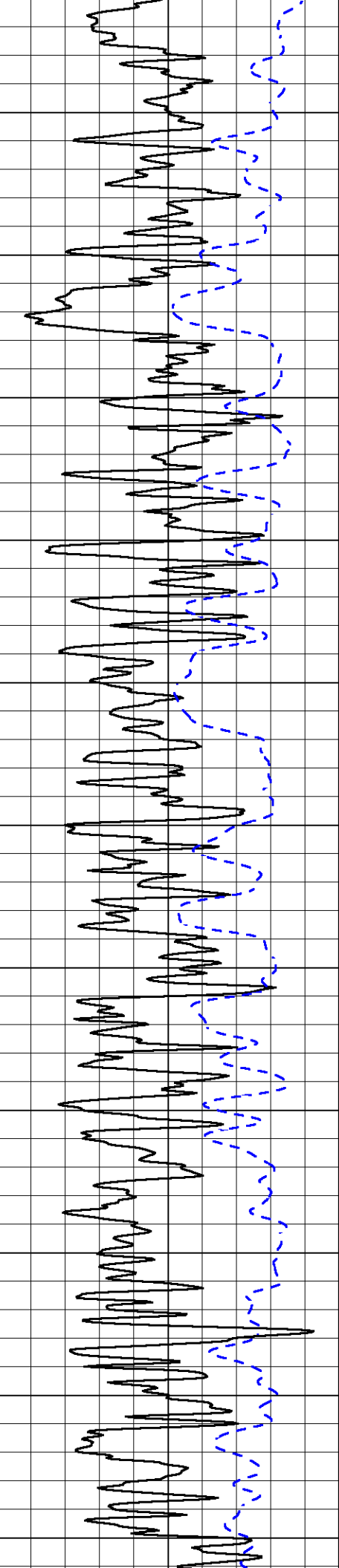


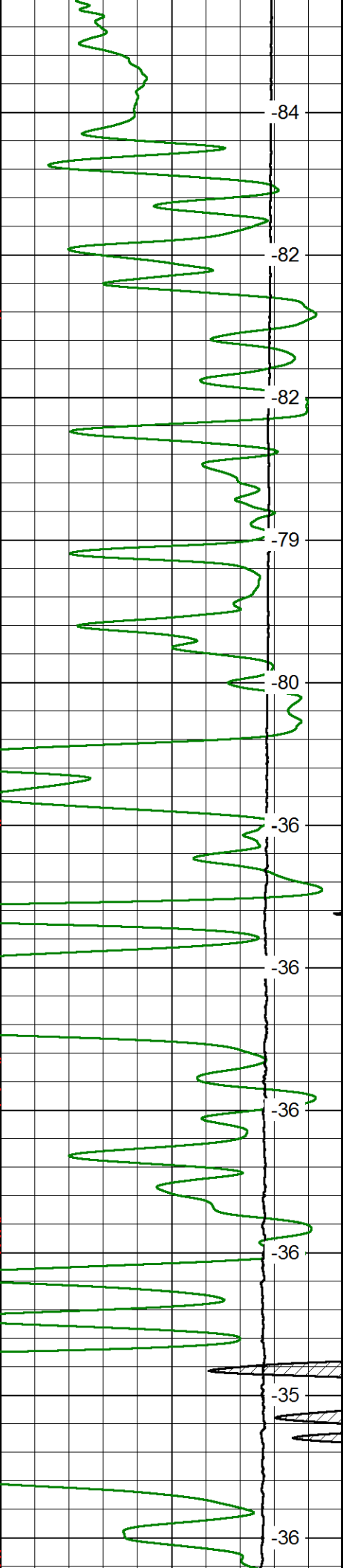
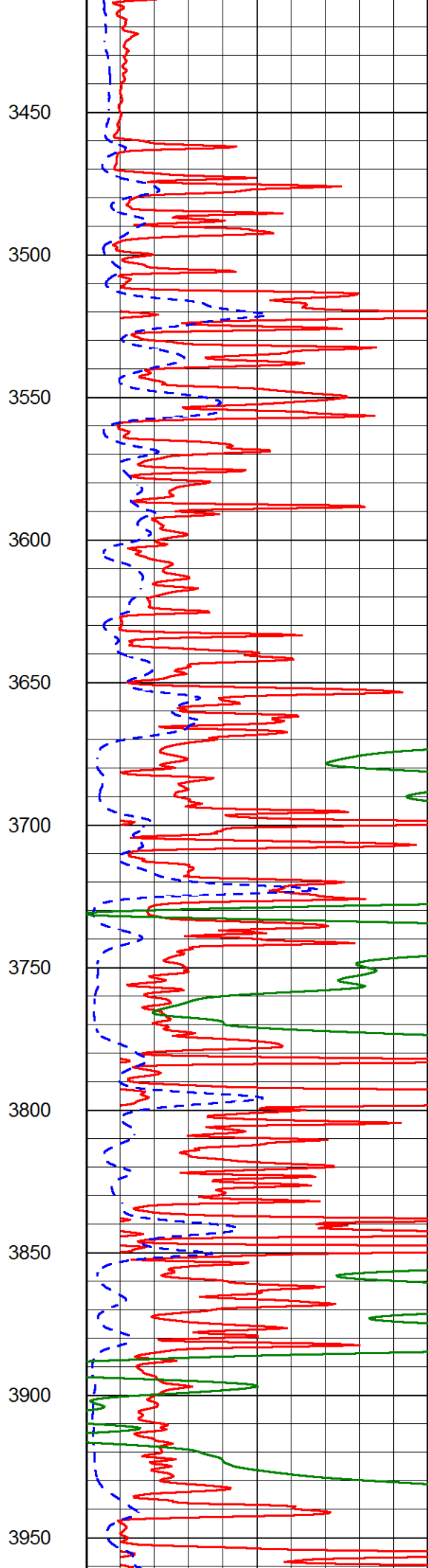
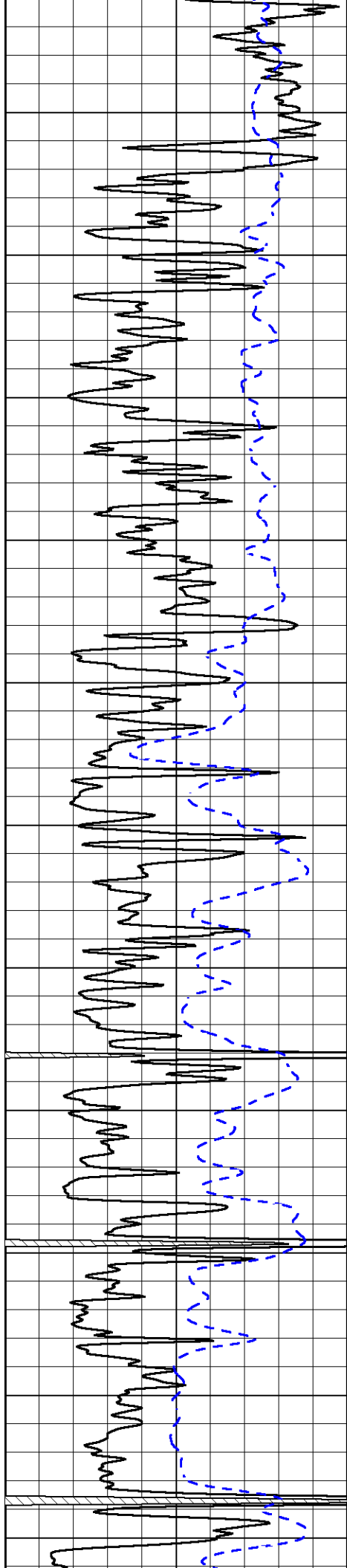


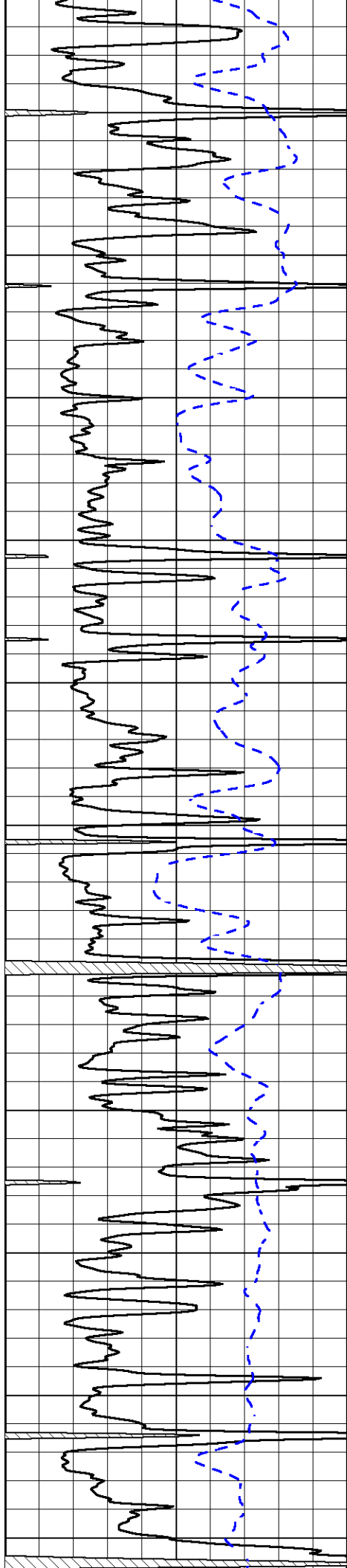




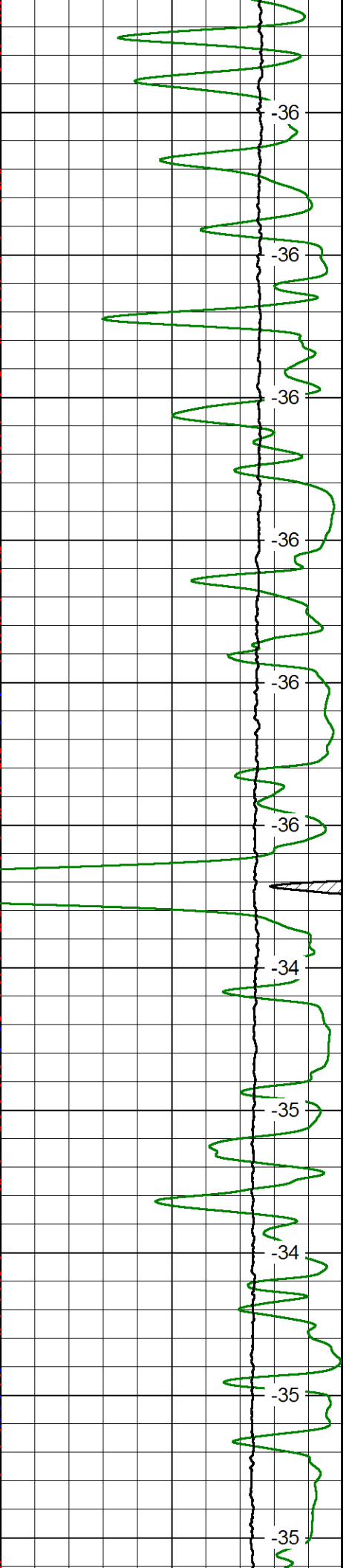
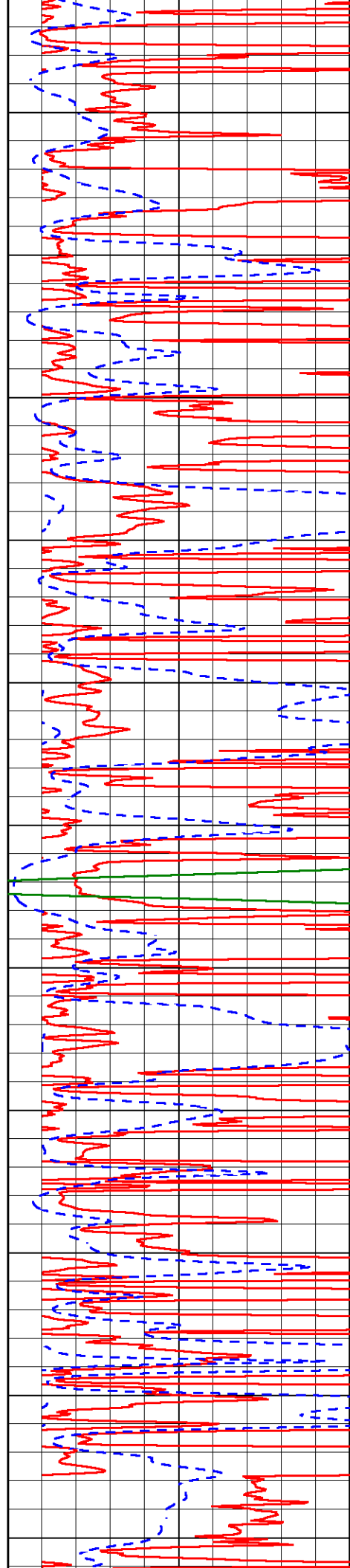


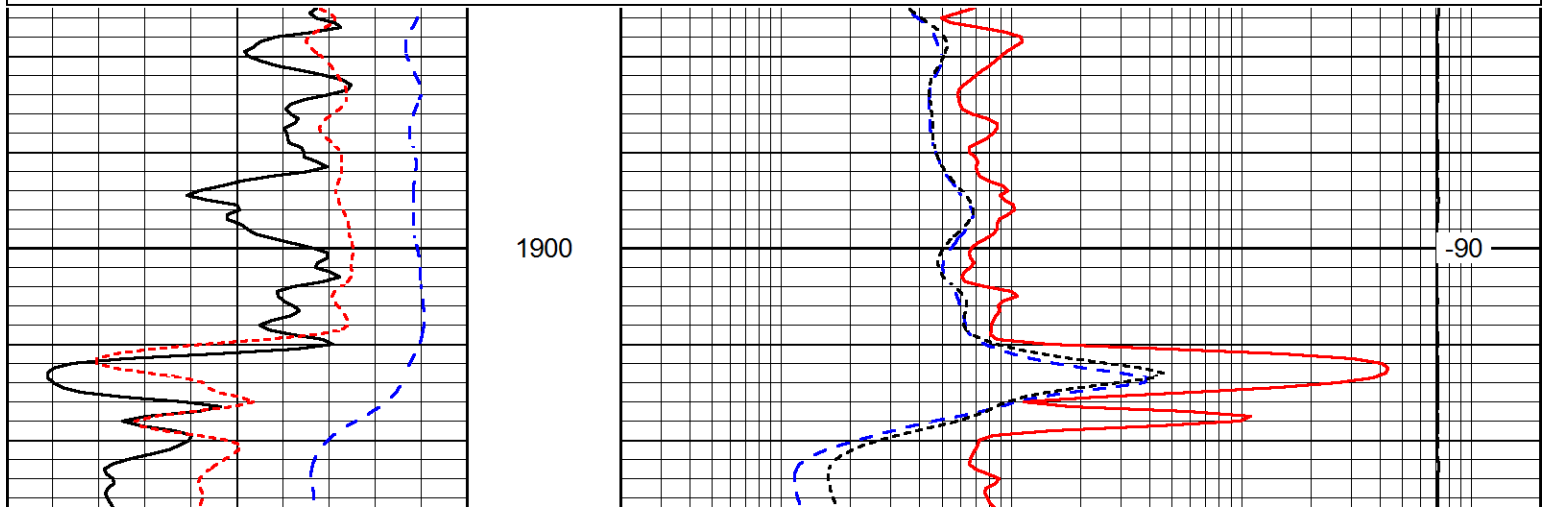
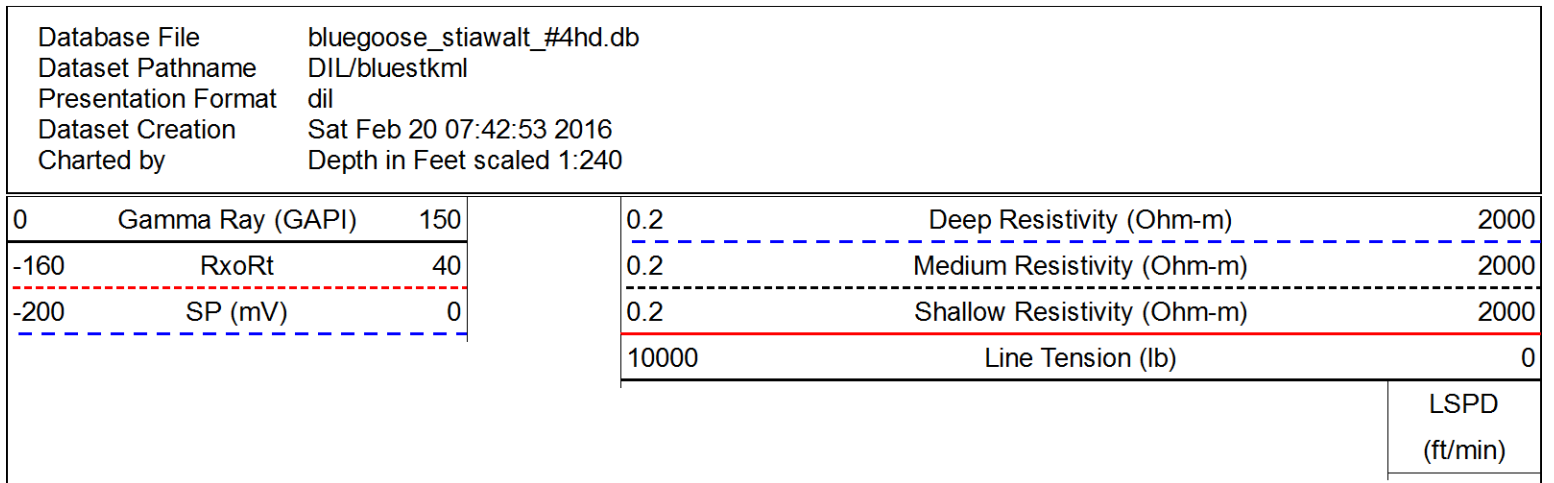
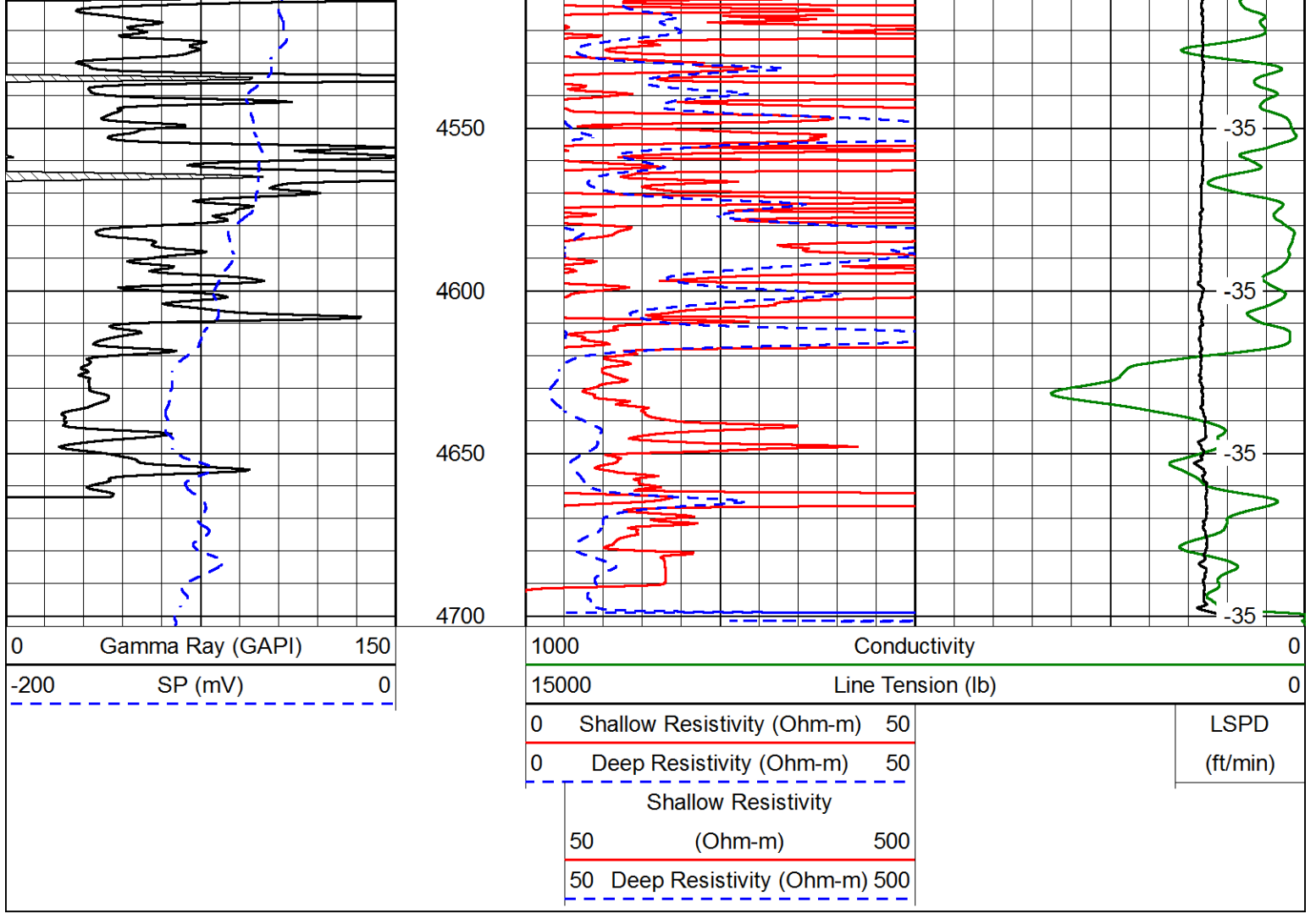


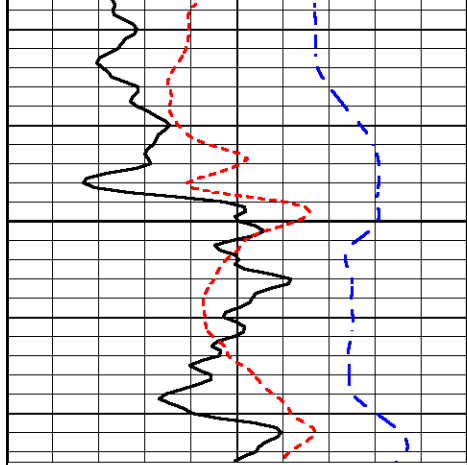




4000
4050
4100
4150
4200
4250
4300
4350
4400
4450
4500

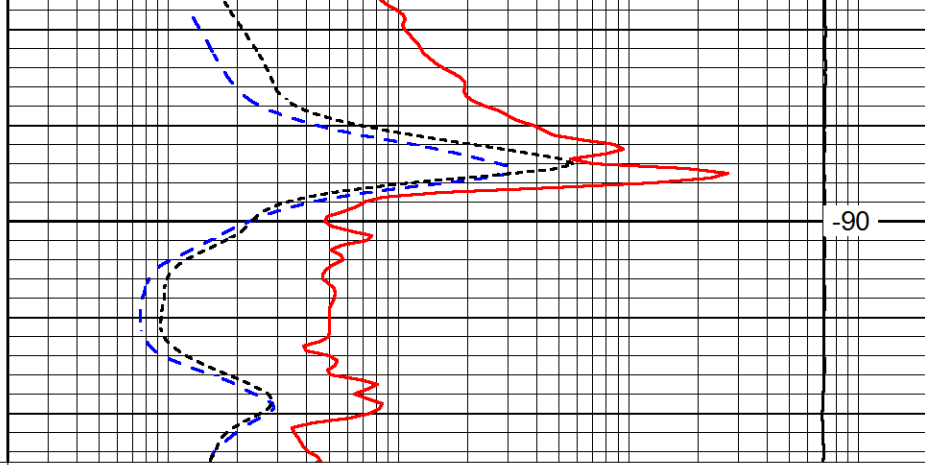






0	Gamma Ray (GAPI)	150
-160	RxoRt	40
-200	SP (mV)	0

1950



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

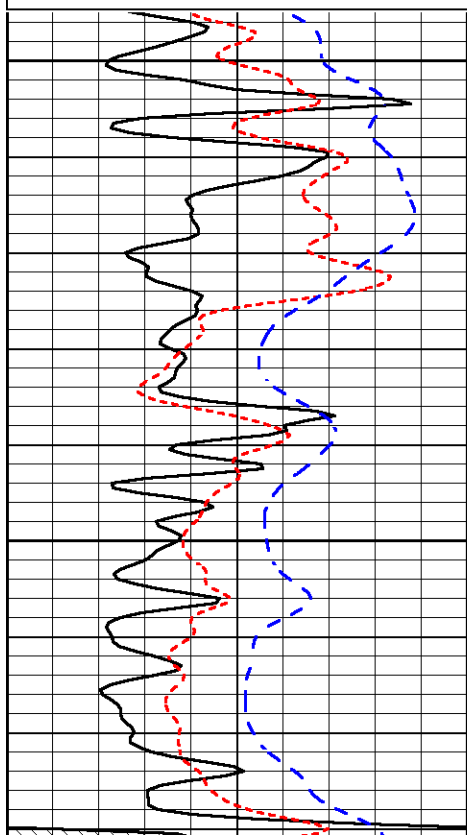
LSPD
(ft/min)

Database File bluegoose_stiawalt_#4hd.db
 Dataset Pathname DIL/bluestkml
 Presentation Format dil
 Dataset Creation Sat Feb 20 07:42:53 2016
 Charted by Depth in Feet scaled 1:240

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

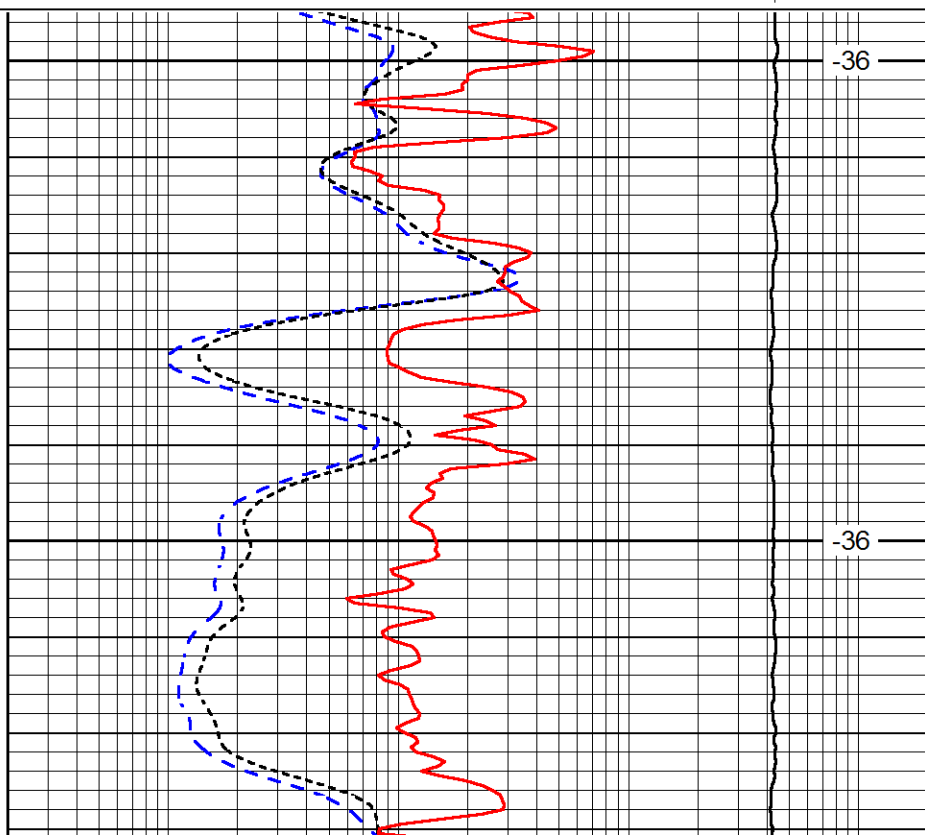
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

LSPD
(ft/min)



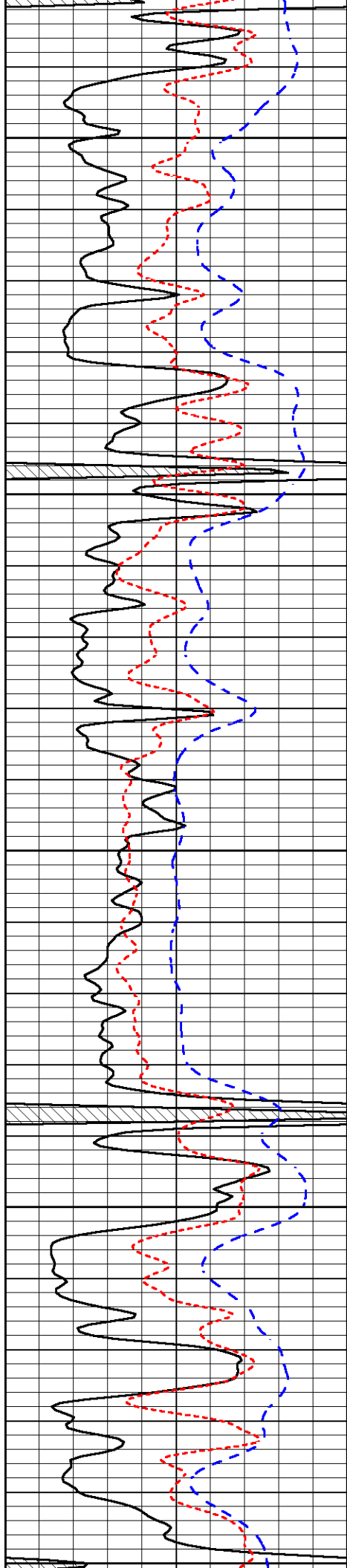
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3750



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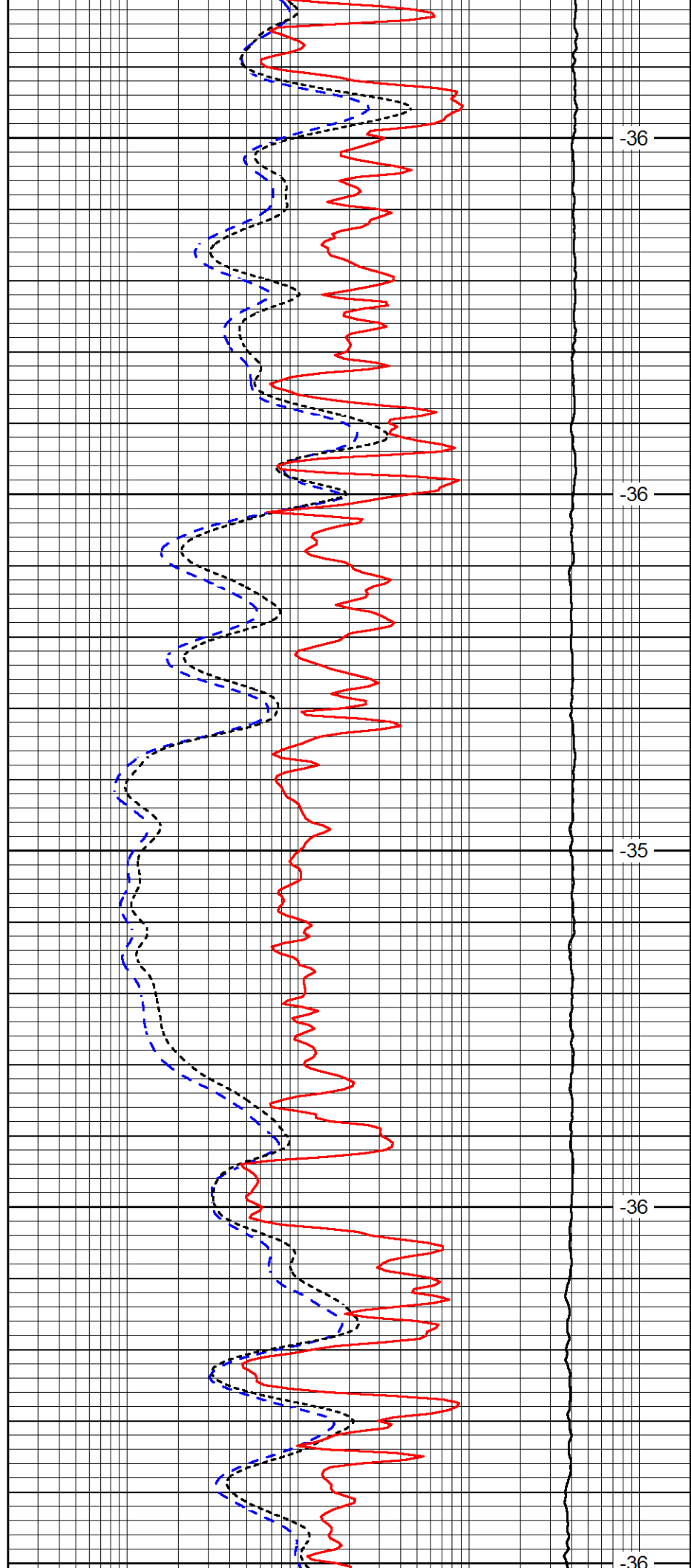
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3850

3900

3950

4000



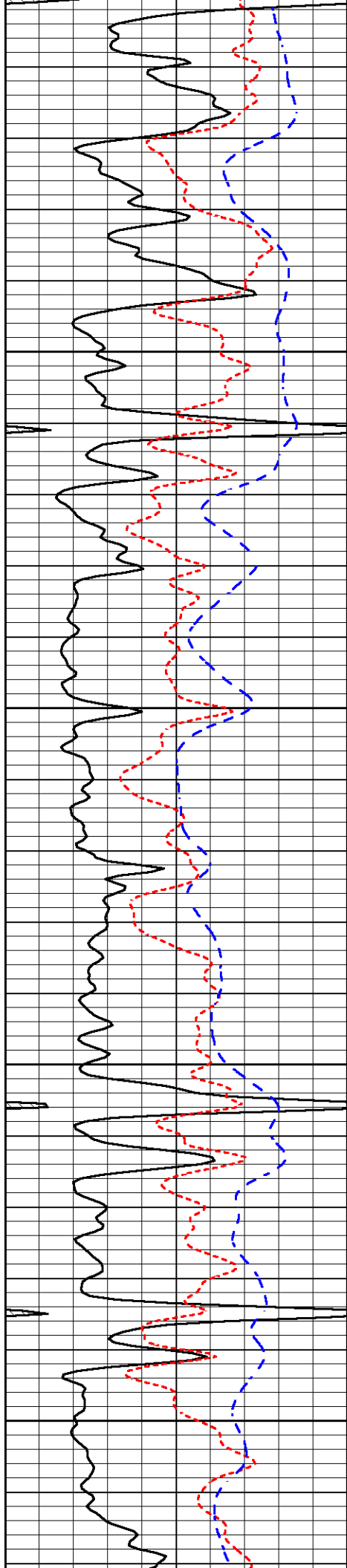
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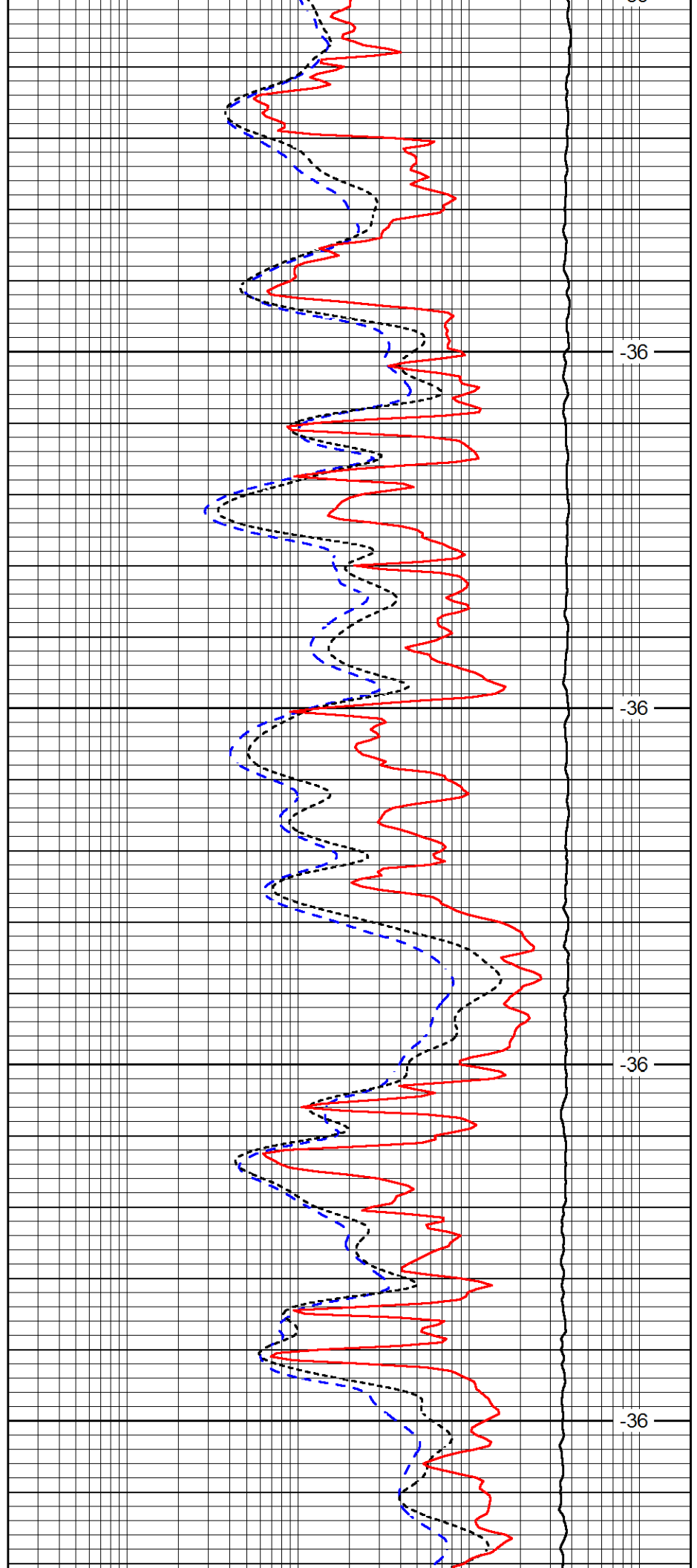


4050

4100

4150

4200

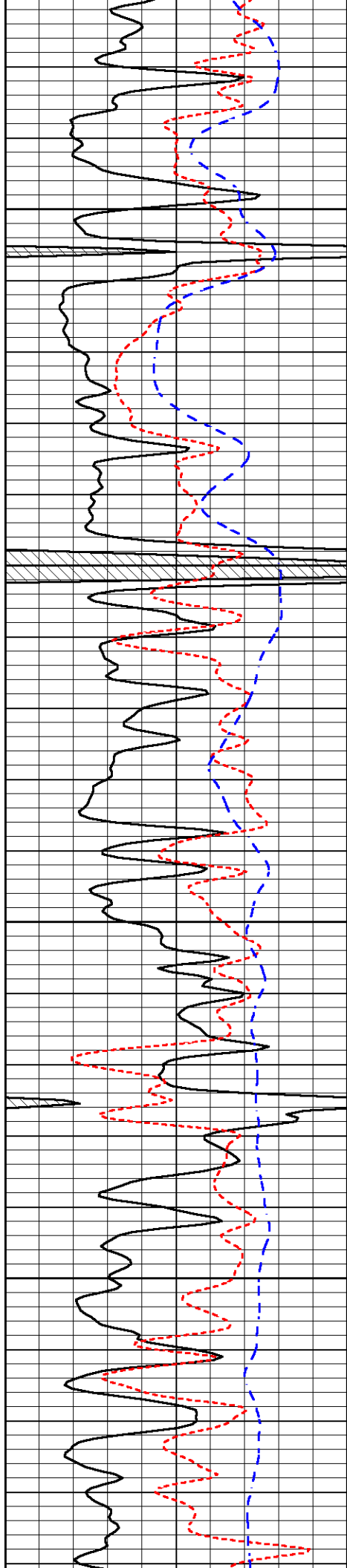


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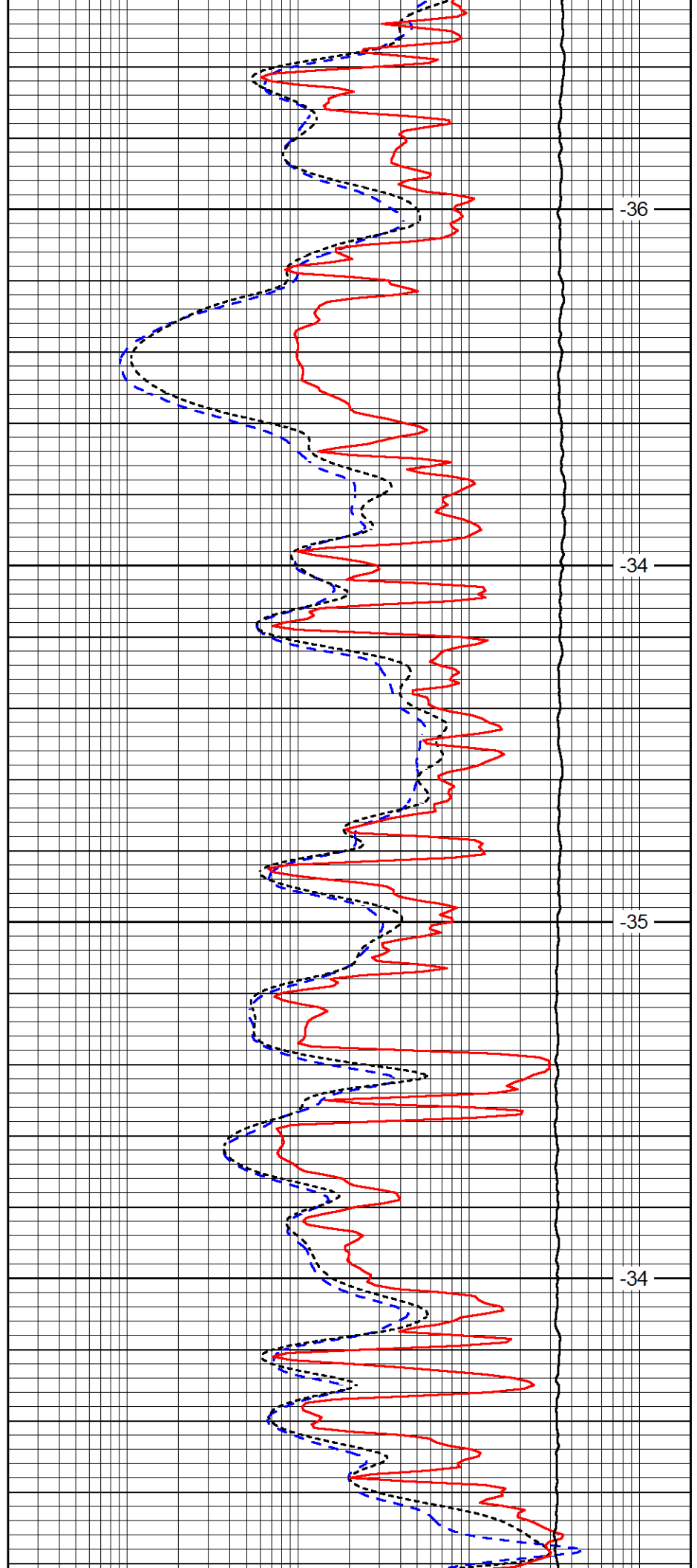


4250

4300

4350

4400

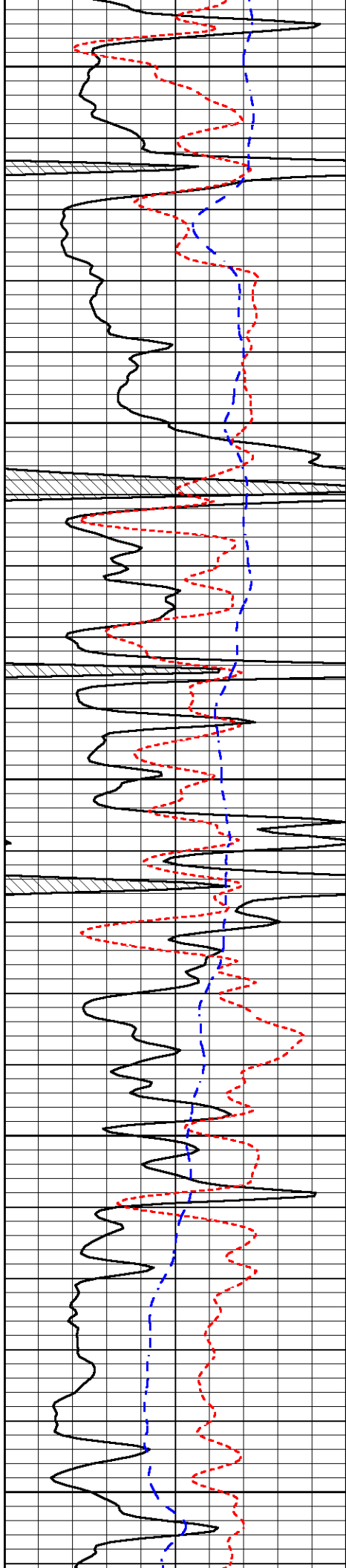


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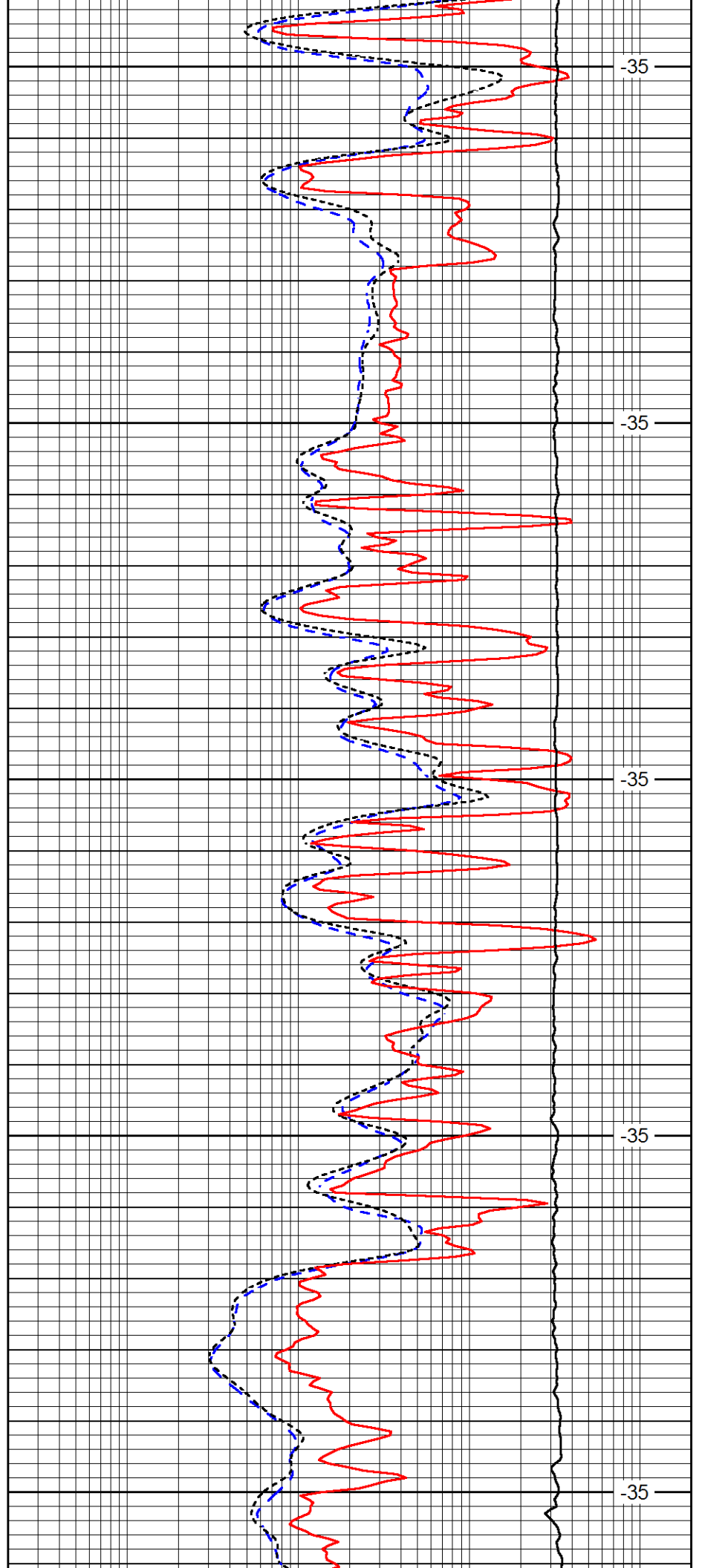
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4500

4550

4600

4650



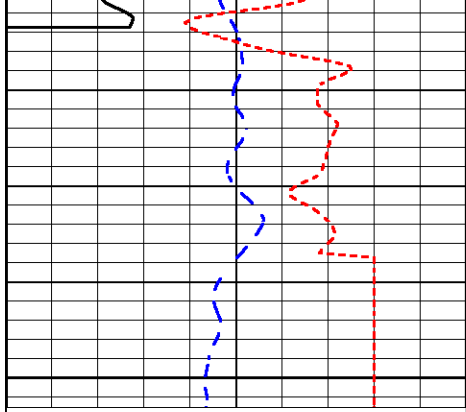
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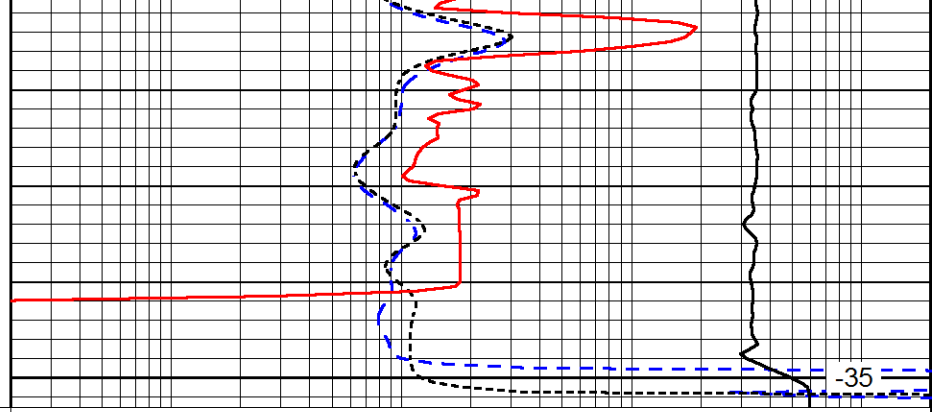
-35

-35

-35



4700



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)



DUAL COMP POROSITY LOG

Company BLUE GOOSE DRILLING CO., INC.
 Well STIAWALT #4
 Field STIAWALT
 County NESS
 State KANSAS

Company BLUE GOOSE DRILLING CO., INC.
 Well STIAWALT #4
 Field STIAWALT
 County NESS
 State KANSAS

Location: 1777' FNL & 990' FWL
 SEC 5 TWP 20S RGE 26W
 Permanent Datum GROUND LEVEL Elevation 2630'
 Log Measured From KELLY BUSHING
 Drilling Measured From KELLY BUSHING
 Other Services DIL/MEL
 Elevation K.B. 2639'
 D.F. N/A
 G.L. 2630'

Date	2/20/2016	
Run Number	ONE	
Type Log	CNL/CDL	
Depth Driller	4700'	
Depth Logger	4698'	
Bottom Logged Interval	4669'	
Top Logged Interval	3700'	
Type Fluid In Hole	CHEMICAL	
Salinity, PPM CL	4000	
Density	9.2	
Level	FULL	
Max. Rec. Temp. F	123 DEG/F	
Operating Rig Time	3 HOURS	
Equipment -- Location	108 Hays	
Recorded By	J. HENRICKSON	
Witnessed By	KEN WALLACE	

Borehole Record		Casing Record					
Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25	00	254	8.625	23#	00	254
TWO	7.875	254	TD				

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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.
 BEELER, KS.
 SOUTH 8 MILES TO 50 RD. 2 WEST. 1 NORTH,
 EAST INTO.

Log Measured From: KELLY BUSHING 9 Ft. Above Permanent Datum

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

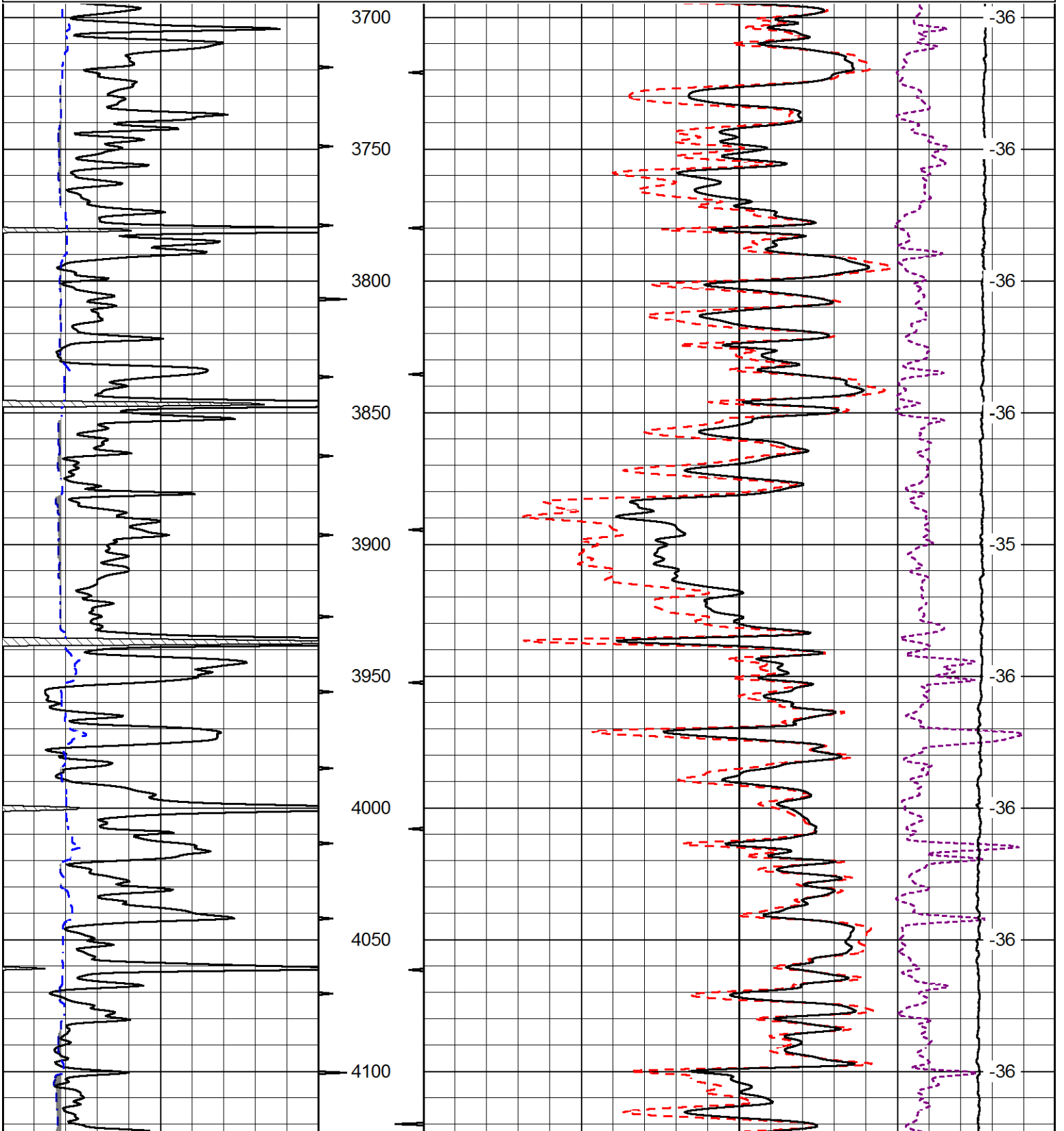
Your Pioneer Energy Services Crew Engineer: J. HENRICKSON Operator: Operator: Operator:	This Log Record Was Witnessed By Primary Witness: KEN WALLACE Secondary Witness: Secondary Witness: Secondary Witness:
--	---

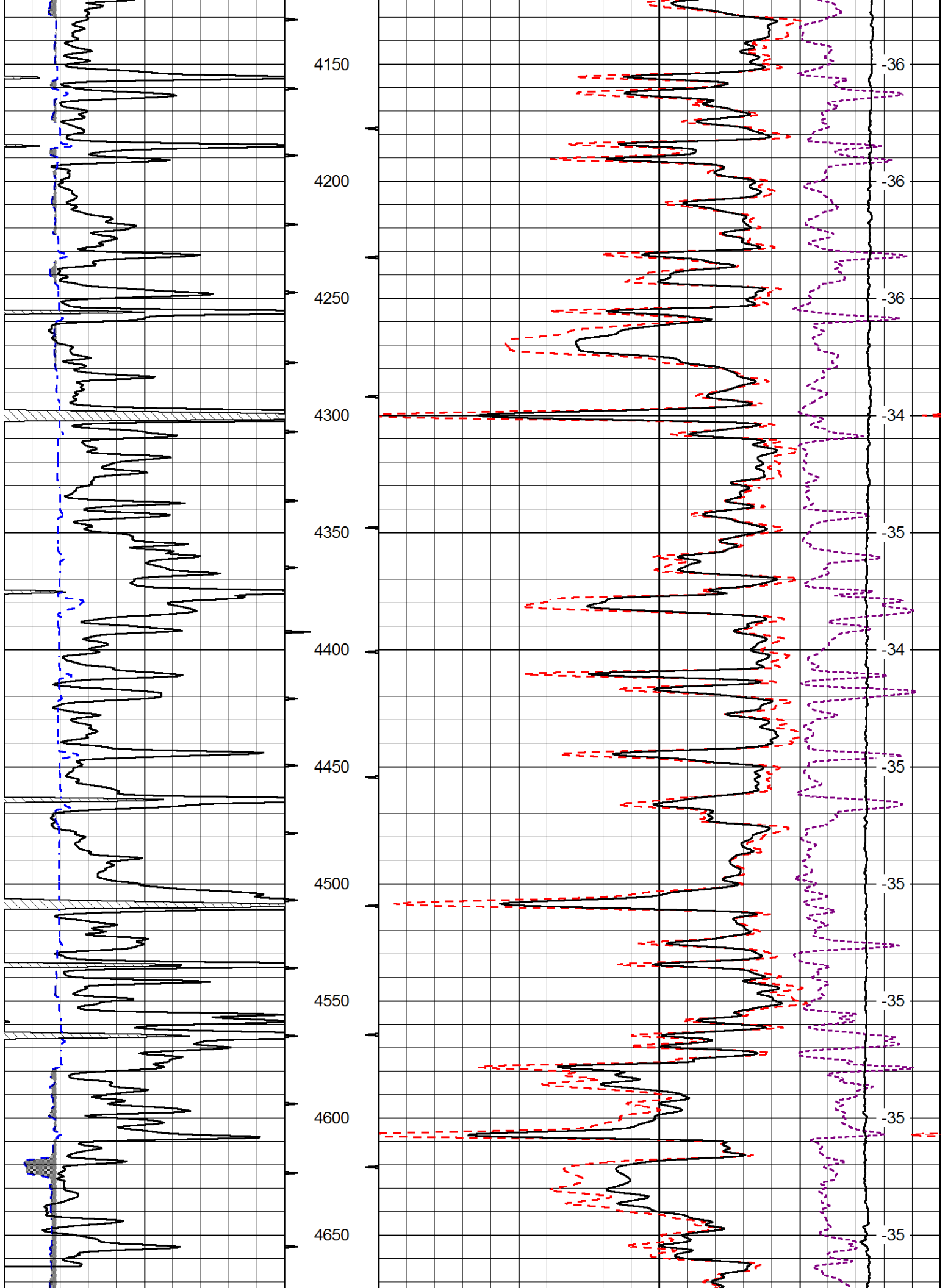
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 Charted by Depth in Feet scaled 1:600

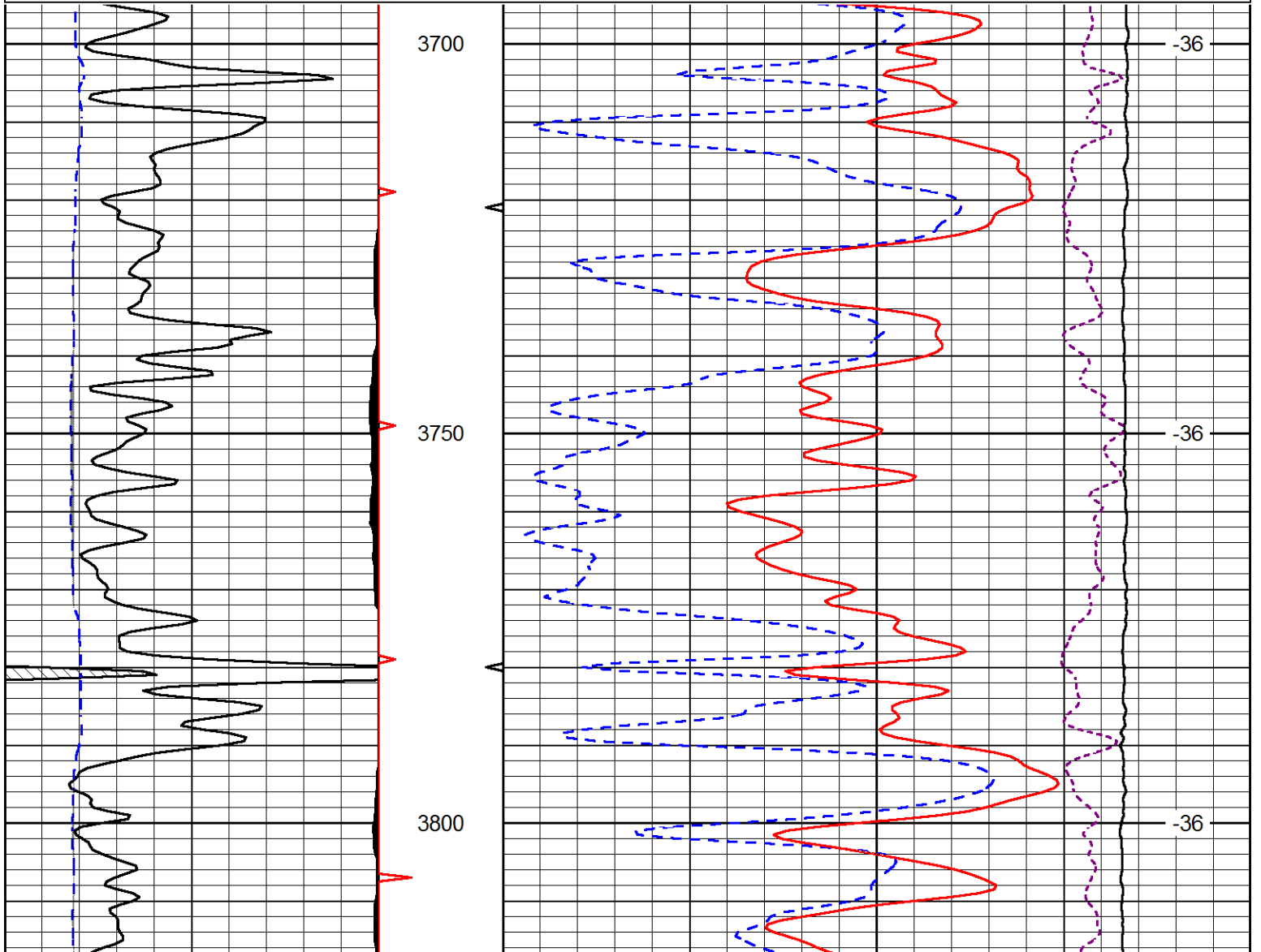
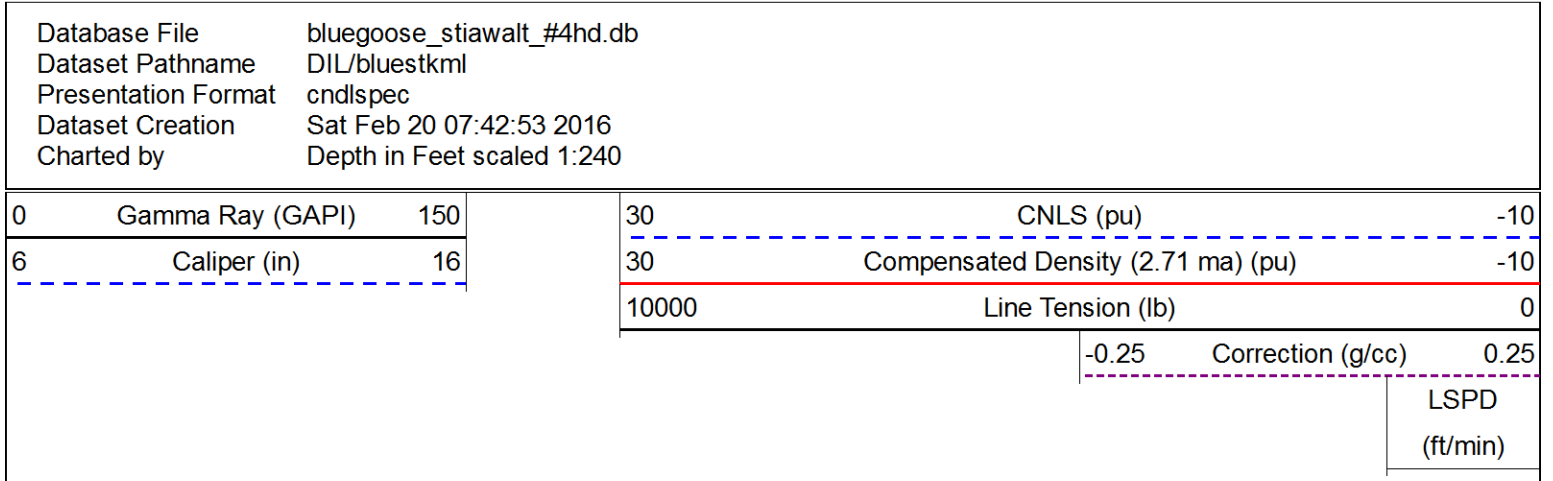
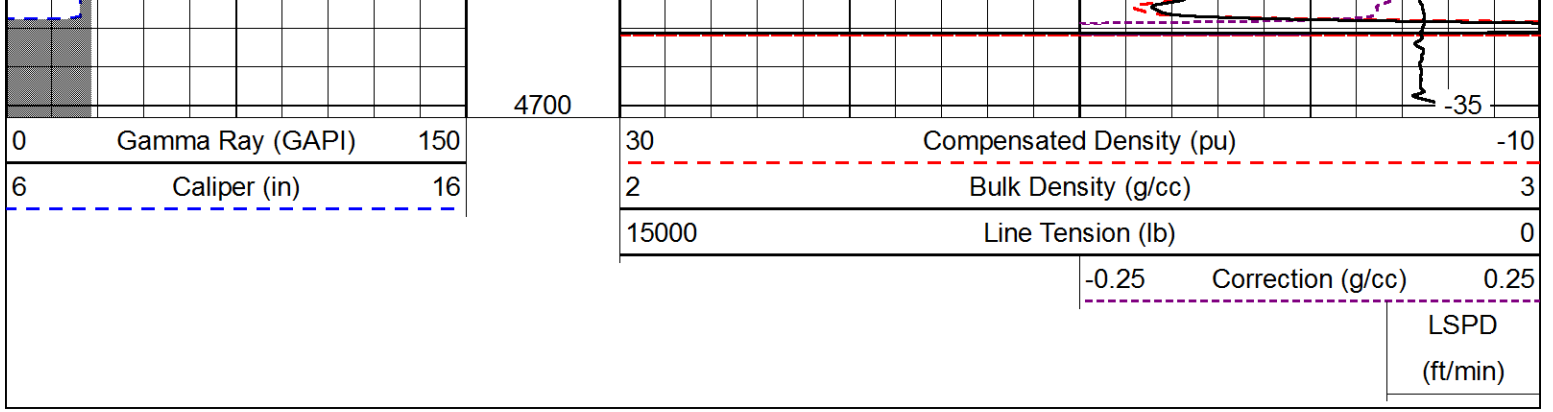
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

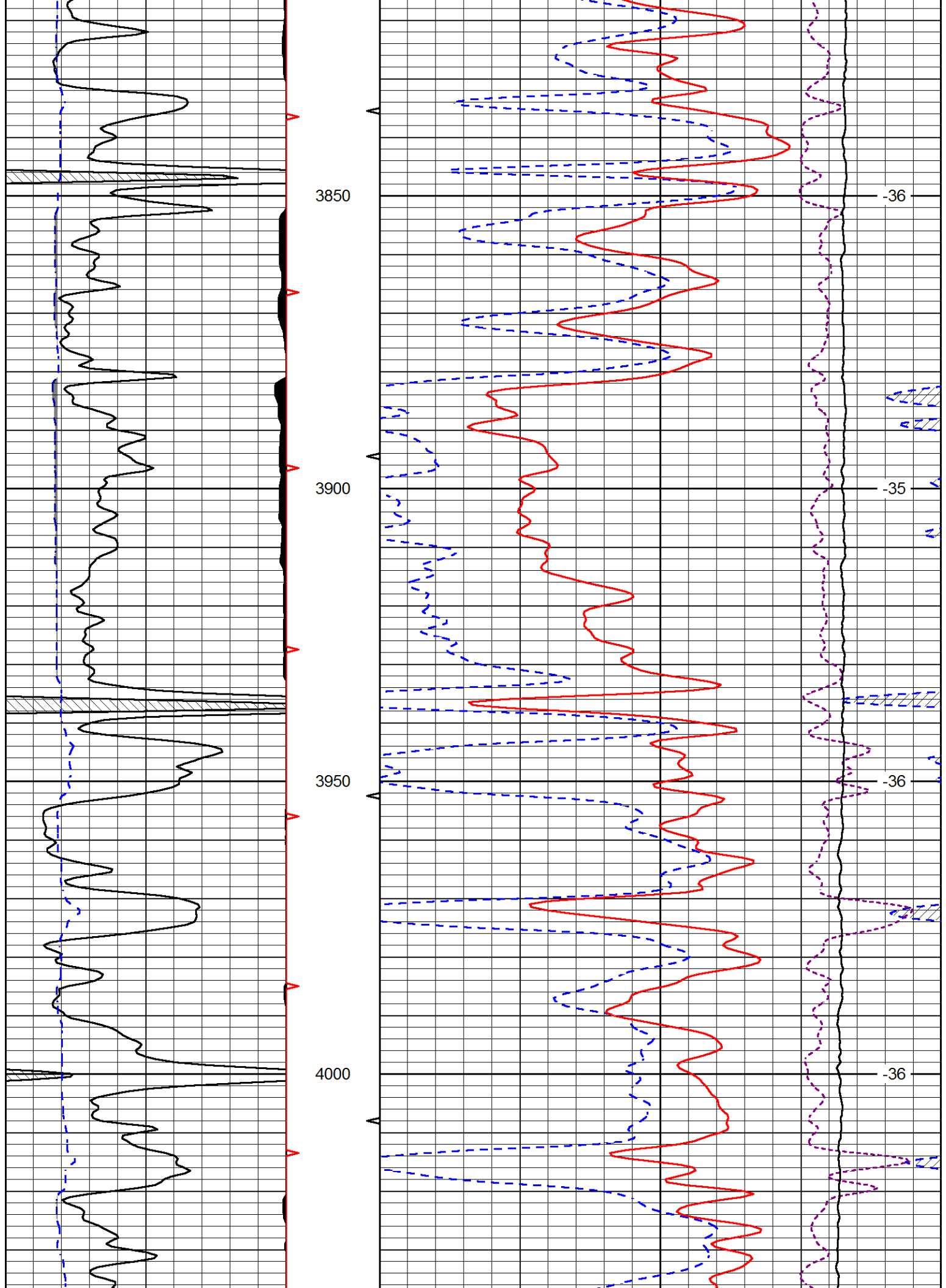
30	Compensated Density (pu)	-10
2	Bulk Density (g/cc)	3
15000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25

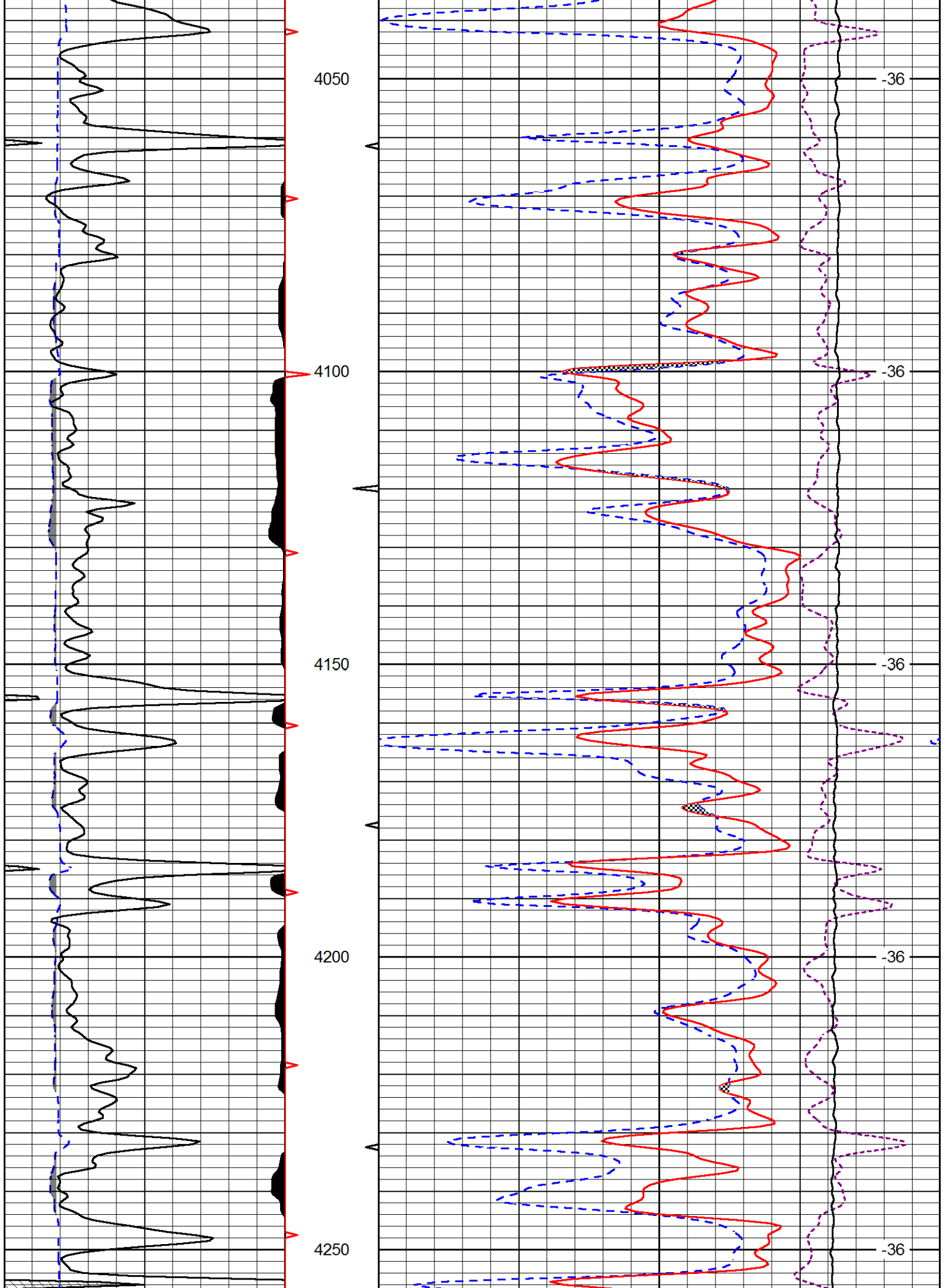
LSPD
(ft/min)

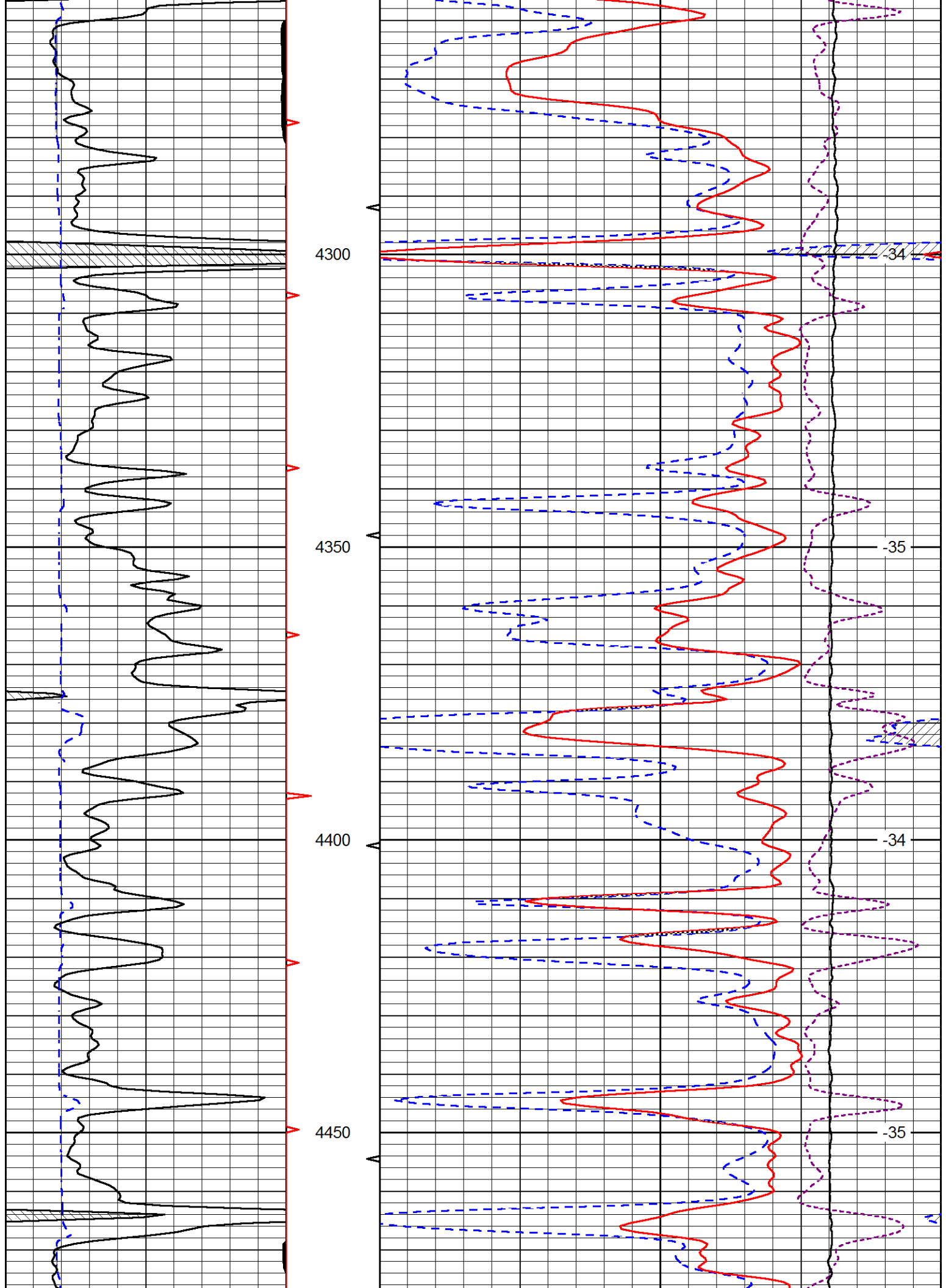


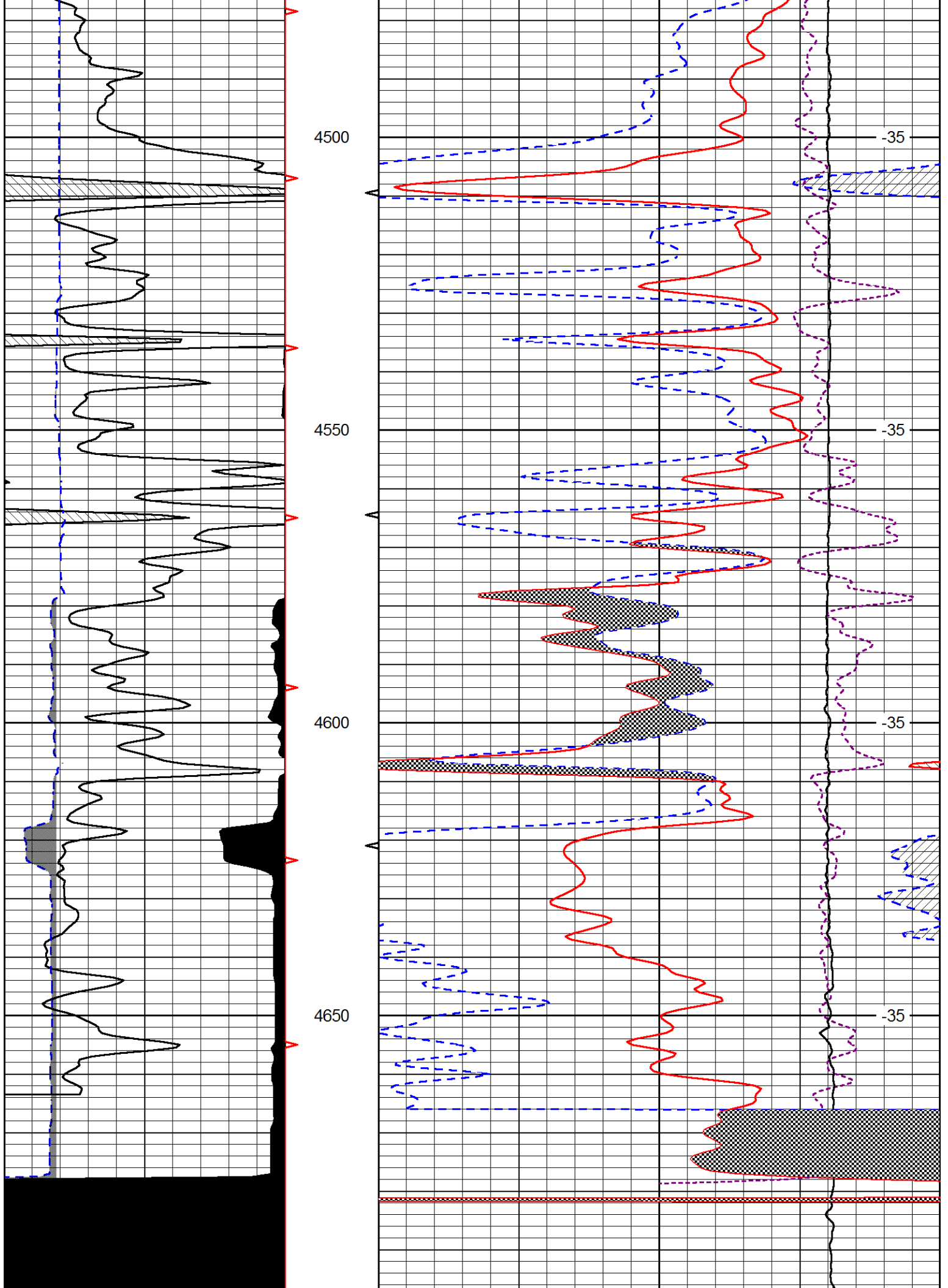












4700

-35

0	Gamma Ray (GAPI)	150
---	------------------	-----

6	Caliper (in)	16
---	--------------	----

30	CNLS (pu)	-10
----	-----------	-----

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

LSPD
(ft/min)



MICRORESISTIVITY LOG

Company BLUE GOOSE DRILLING CO., INC.
 Well STIAWALT #4
 Field STIAWALT
 County NESS
 State KANSAS

Company BLUE GOOSE DRILLING CO., INC.
 Well STIAWALT #4
 Field STIAWALT
 County NESS
 State KANSAS

Location: 1777' FNL & 990' FWL
 API #: 15-135-25901-00-00
 SEC 5 TWP 20S RGE 26W
 Permanent Datum GROUND LEVEL Elevation 2630'
 Log Measured From KELLY BUSHING
 Drilling Measured From KELLY BUSHING
 Other Services CNL/CDL DIL
 Elevation K.B. 2639'
 D.F. N/A
 G.L. 2630'

Date	2/20/2016
Run Number	ONE
Depth Driller	4700'
Depth Logger	4698'
Bottom Logged Interval	4697'
Top Log Interval	3700'
Casing Driller	8.625" @ 254'
Casing Logger	252'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	4000
Density / Viscosity	9.2 50
pH / Fluid Loss	10.5 8.0
Source of Sample	Flowline
Rm @ Meas. Temp	0.40 @ 41
Rmt @ Meas. Temp	0.30 @ 41
Rmc @ Meas. Temp	0.54 @ 41
Source of Rmf / Rmc	Charts
Rm @ BHT	0.13 @ 123
Operating Rig Time	3 HOURS
Max Rec. Temp. F	123 DEGF
Equipment Number	108
Location	Hays
Recorded By	J. HENRICKSON
Witnessed By	KEN WALLACE

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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.
 BEELER, KS.
 SOUTH 8 MILES TO 50 RD. 2 WEST. 1 NORTH,
 EAST INTO.

Log Measured From: KELLY BUSHING 9 Ft. Above Permanent Datum

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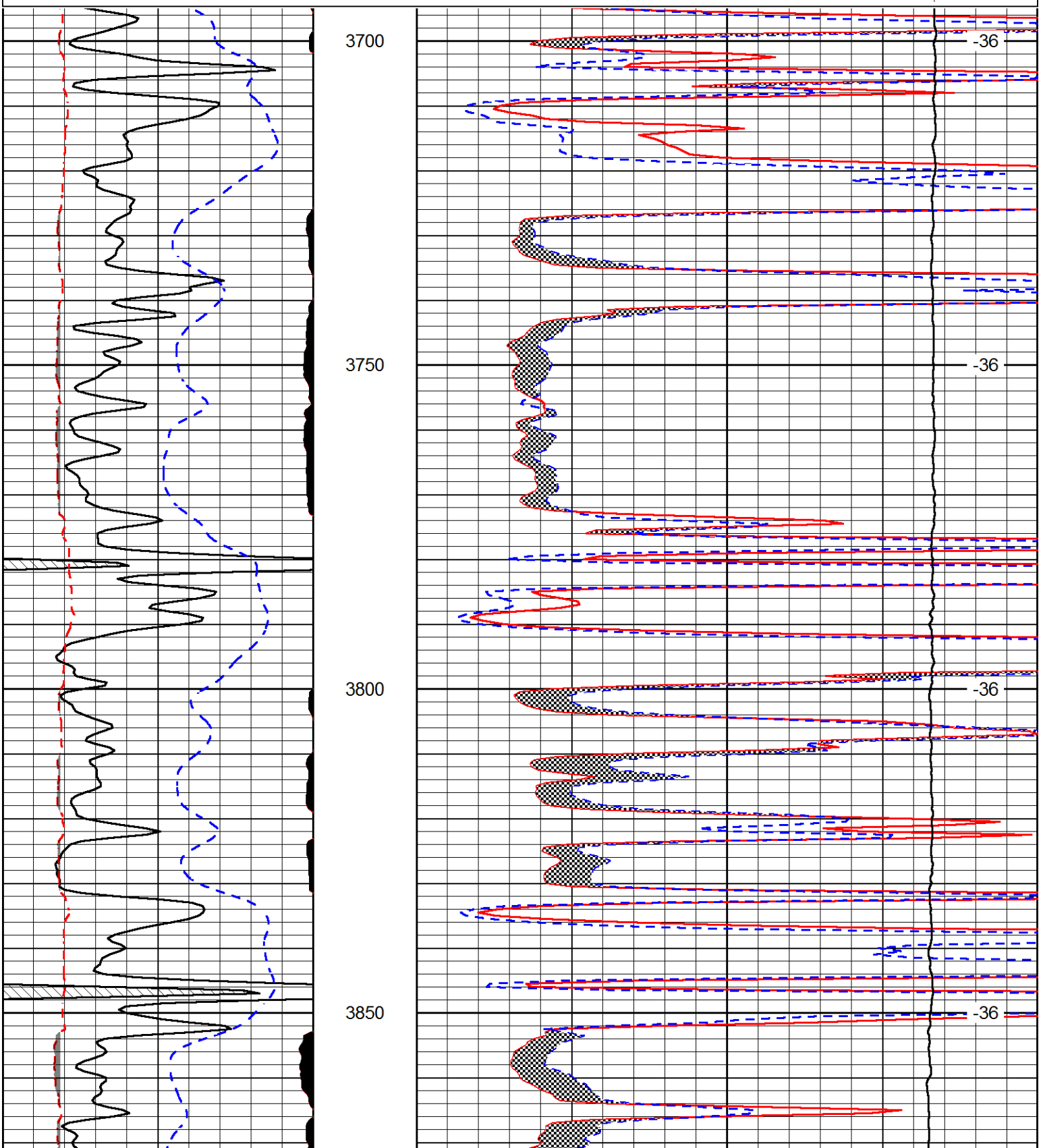
Your Pioneer Energy Services Crew Engineer: J. HENRICKSON Operator: Operator: Operator:	This Log Record Was Witnessed By Primary Witness: KEN WALLACE Secondary Witness: Secondary Witness: Secondary Witness:
---	--

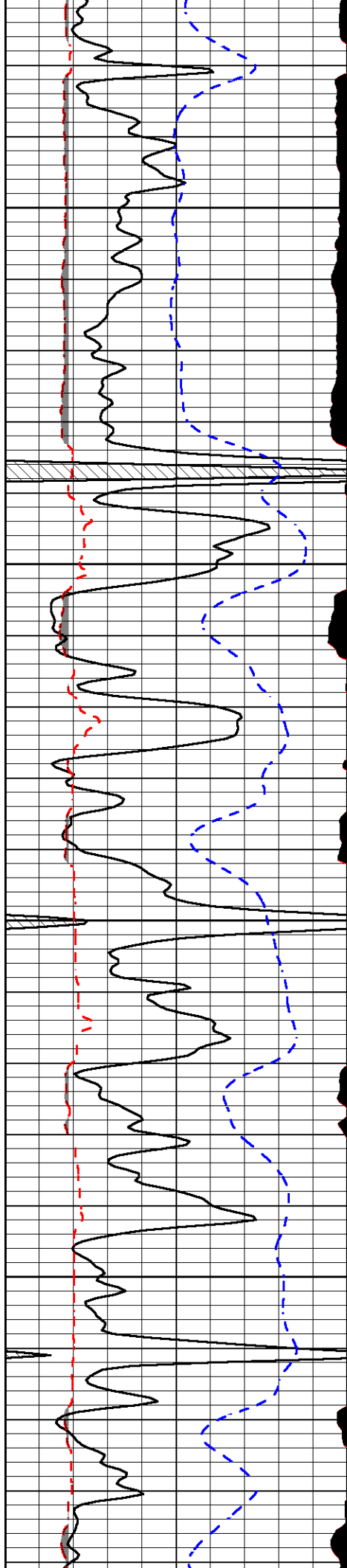
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 Dataset Pathname DIL/bluestkml
 Presentation Format micro
 Dataset Creation Sat Feb 20 07:42:53 2016
 Charted by Depth in Feet scaled 1:240

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)



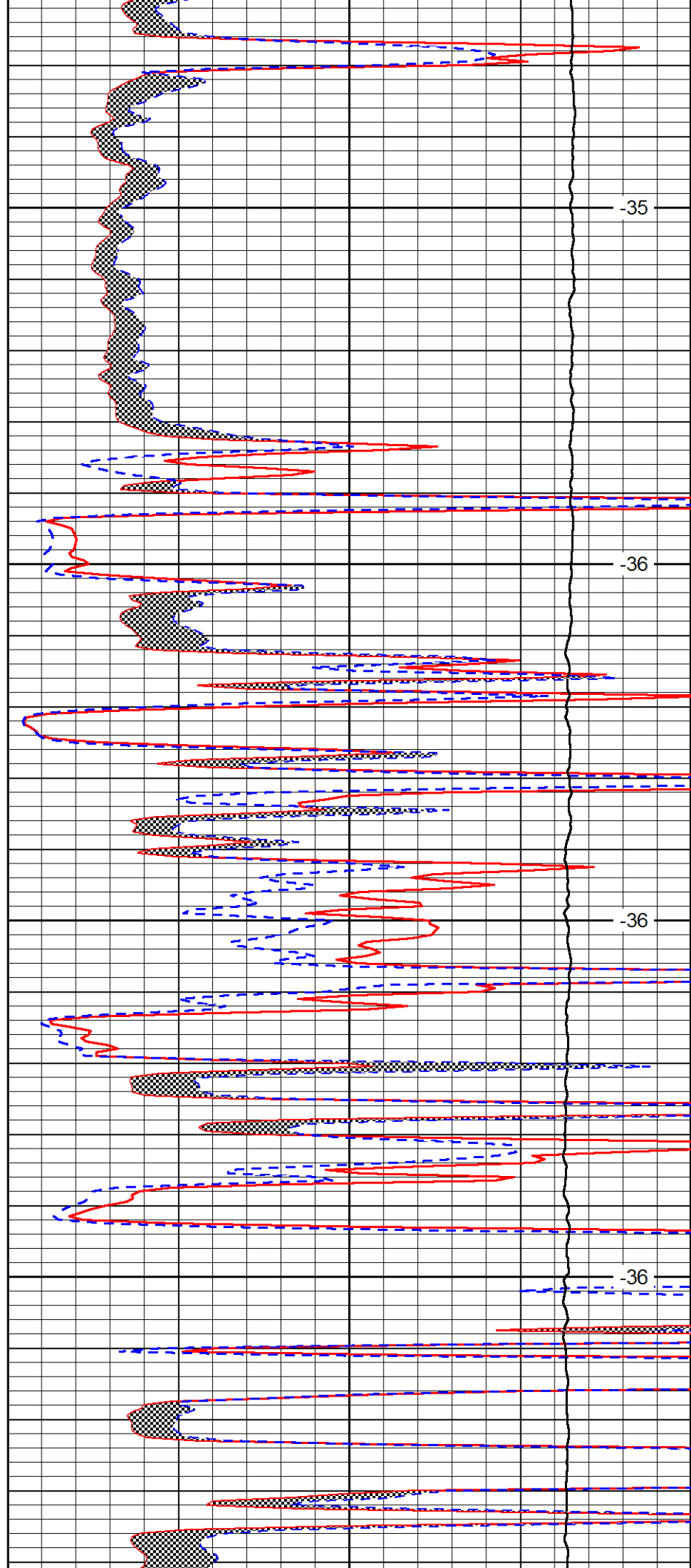


3900

3950

4000

4050

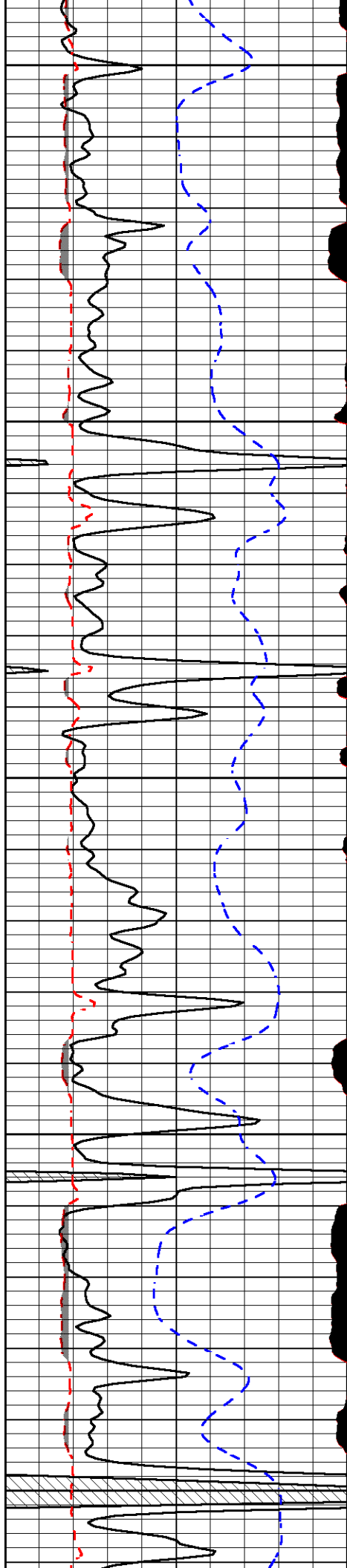


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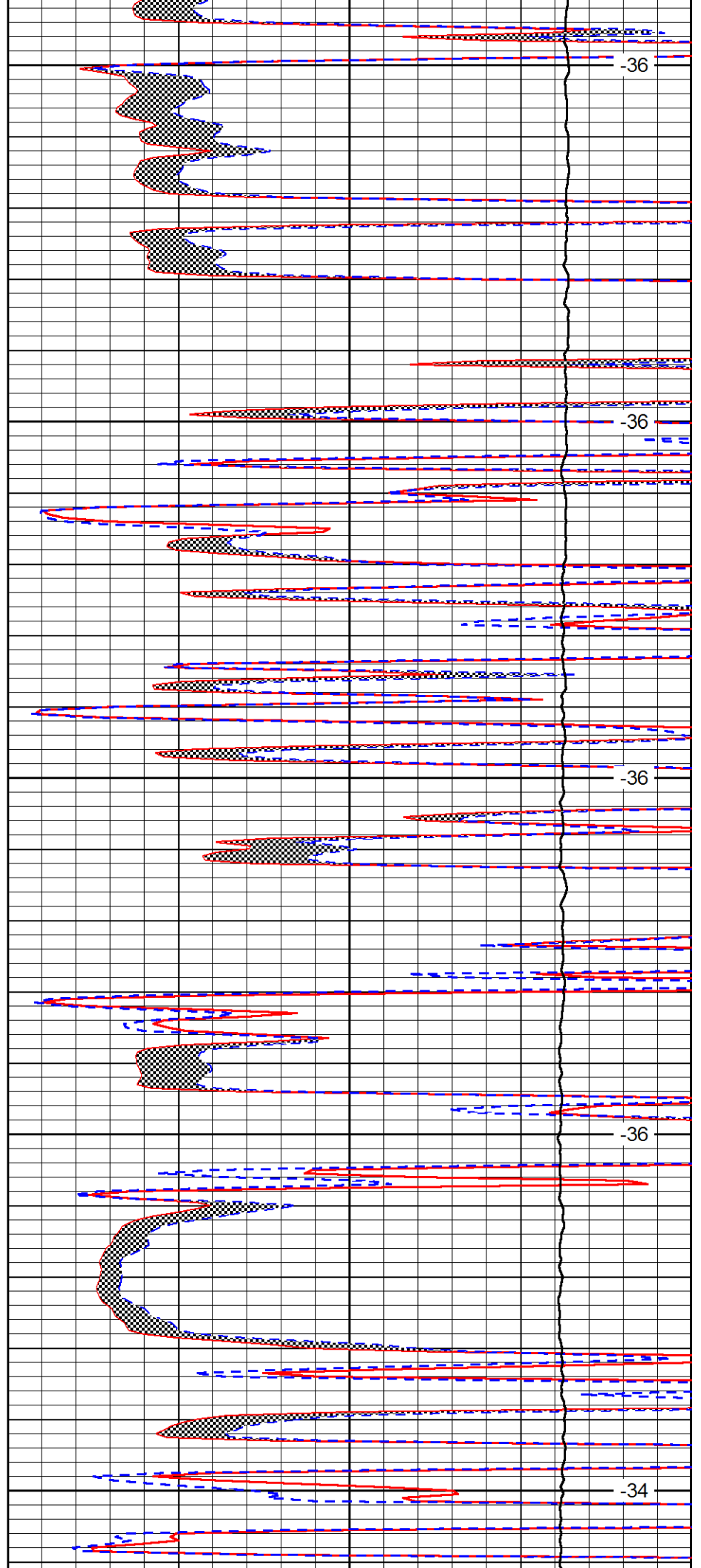
4100

4150

4200

4250

4300



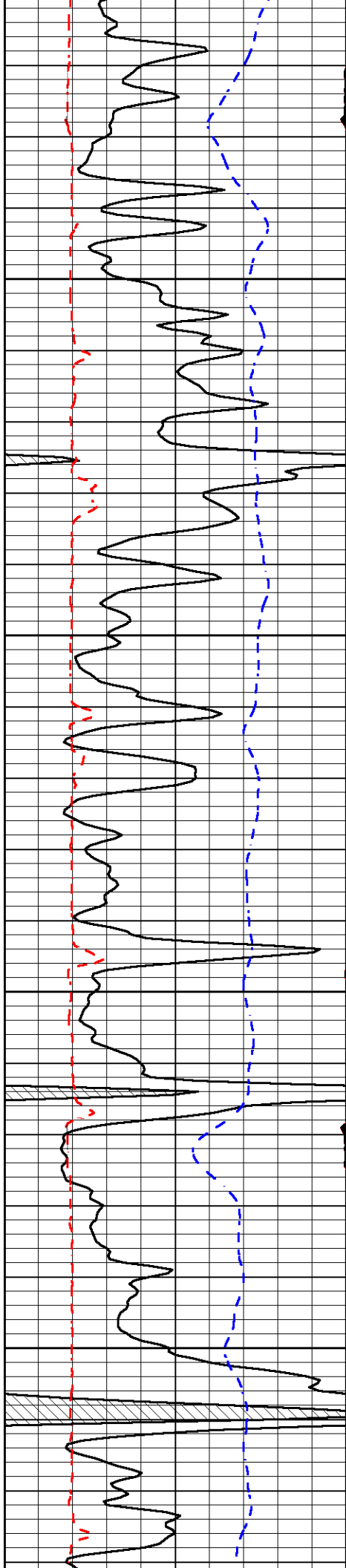
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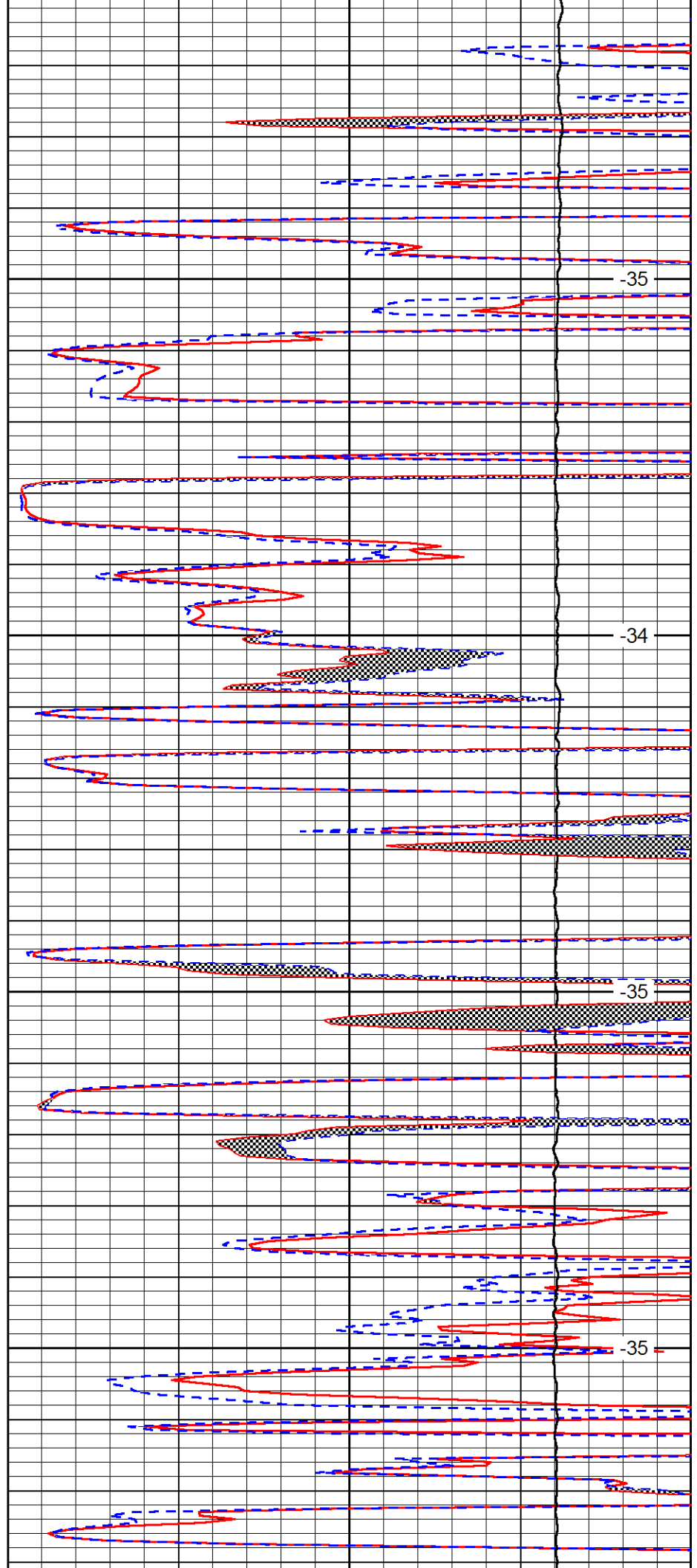


4350

4400

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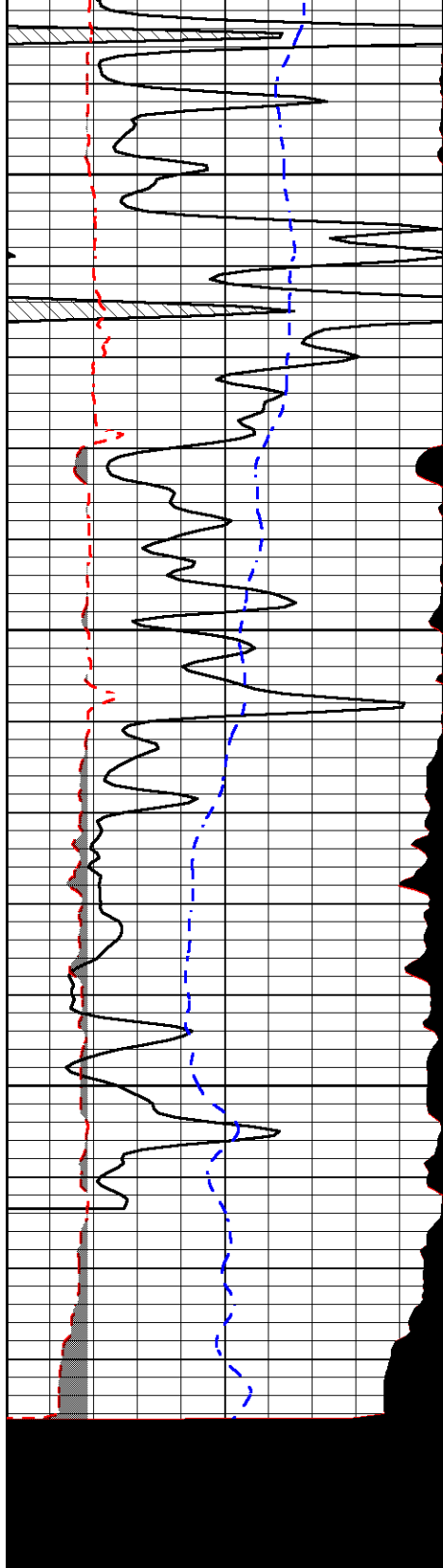


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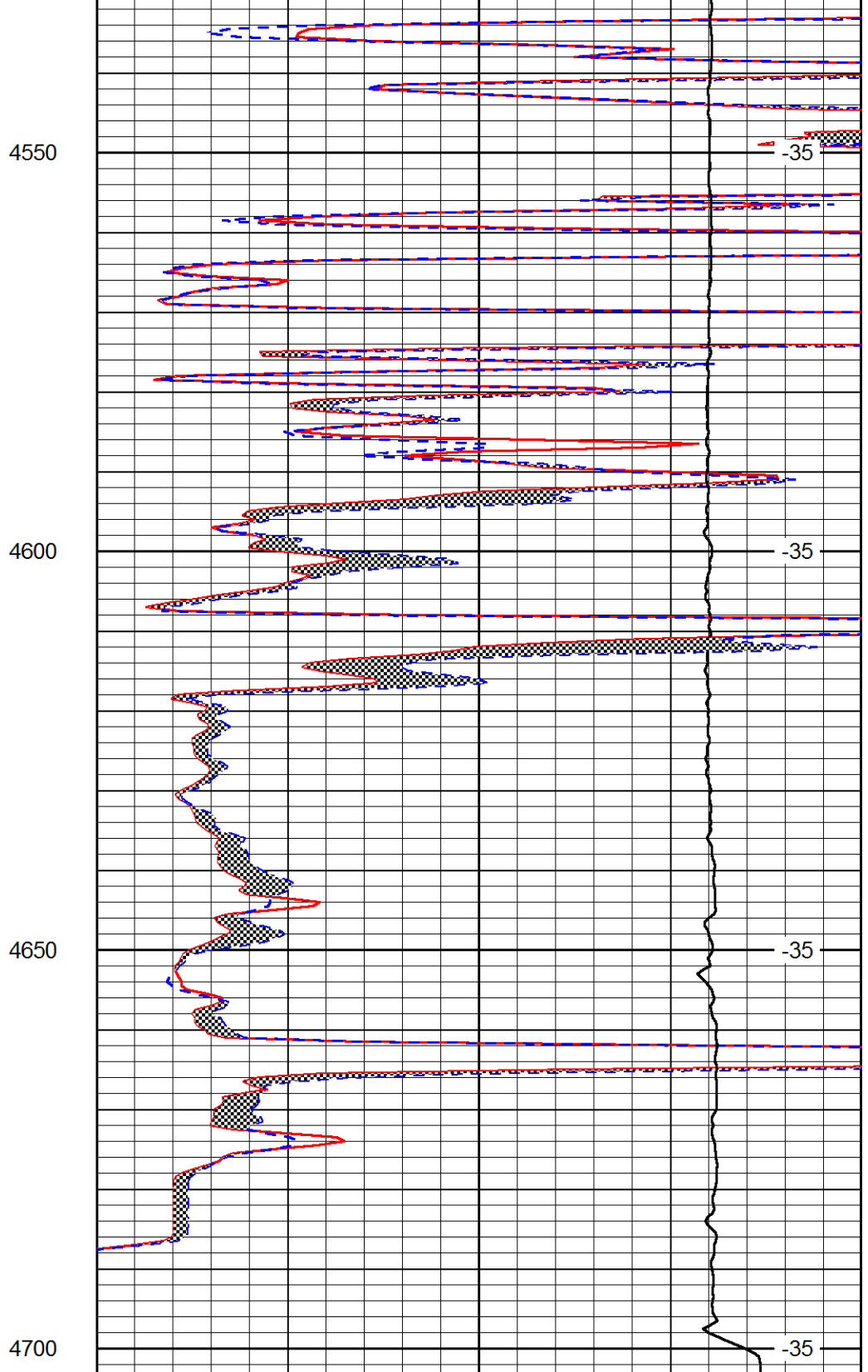
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-35



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)