



Notice: Fill out COMPLETELY and return to Conservation Division at the address below within 60 days from plugging date.

KANSAS CORPORATION COMMISSION 1032551
OIL & GAS CONSERVATION DIVISION

Form CP-4
March 2009

Type or Print on this Form
Form must be Signed
All blanks must be Filled

WELL PLUGGING RECORD
K.A.R. 82-3-117

OPERATOR: License #: _____
 Name: _____
 Address 1: _____
 Address 2: _____
 City: _____ State: _____ Zip: _____ + _____
 Contact Person: _____
 Phone: (_____) _____
 Type of Well: (Check one) Oil Well Gas Well OG D&A Cathodic
 Water Supply Well Other: _____ SWD Permit #: _____
 ENHR Permit #: _____ Gas Storage Permit #: _____
 Is ACO-1 filed? Yes No If not, is well log attached? Yes No
 Producing Formation(s): List All (If needed attach another sheet)
 _____ Depth to Top: _____ Bottom: _____ T.D. _____
 _____ Depth to Top: _____ Bottom: _____ T.D. _____
 _____ Depth to Top: _____ Bottom: _____ T.D. _____

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
 County: _____
 Lease Name: _____ Well #: _____
 Date Well Completed: _____
 The plugging proposal was approved on: _____ (Date)
 by: _____ (KCC District Agent's Name)
 Plugging Commenced: _____
 Plugging Completed: _____

Show depth and thickness of all water, oil and gas formations.

Oil, Gas or Water Records		Casing Record (Surface, Conductor & Production)			
Formation	Content	Casing	Size	Setting Depth	Pulled Out

Describe in detail the manner in which the well is plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same depth placed from (bottom), to (top) for each plug set.

Plugging Contractor License #: _____ Name: _____
 Address 1: _____ Address 2: _____
 City: _____ State: _____ Zip: _____ + _____
 Phone: (_____) _____
 Name of Party Responsible for Plugging Fees: _____
 State of _____ County, _____, ss.
 _____ Employee of Operator or Operator on above-described well,
 (Print Name)

being first duly sworn on oath, says: That I have knowledge of the facts statements, and matters herein contained, and the log of the above-described well is as filed, and the same are true and correct, so help me God.

Submitted Electronically

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 4637

Date	5-18-11	Sec.	2	Twp.	8	Range	24	County	Labama	State	Kansas	On Location		Finish	2:15 PM
Lease	Logan	Well No.	42-2	Location: <u>Penokee 24 1E S14</u>											
Contractor	American Edge	Owner To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.													
Type Job	Surface	T.D.	223	Charge To: <u>Floccans Resources</u>											
Hole Size	12 1/4	Depth	223	Street											
Csg.	8 1/2	Depth		City											
Tbg. Size		Depth		State											
Tool		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.											
Cement Left in Csg.	10-15	Displace	134	Cement Amount Ordered <u>170 Can 350 280</u>											
Meas Line		<p style="text-align: center;">EQUIPMENT</p> <p><u>Used 150</u></p>													
Pumptrk	No. 5	Cementer		Common <u>70 150</u>											
		Helper													
Bulktrk	No. 2	Driver		Poz. Mix											
		Driver		Gel. <u>3</u>											
Bulktrk	No. 1	Driver		Calcium <u>5</u>											
		Driver		Hulls											
JOB SERVICES & REMARKS															
Remarks:															
Rat Hole	Salt														
Mouse Hole	Flowseal														
Centralizers	Kol-Seal														
Baskets	Mud CLR 48														
D/V or Port Collar	CFL-117 or CD110 CAF 38														
	Sand														
	Handling <u>177 150</u>														
	Mileage <u>29</u>														
	Guide Shoe														
	Centralizer														
	Baskets														
	AFU inserts														
	Float Shoe														
	Latch Down														
	Pumptrk Charge <u>Surface</u>														
	Mileage <u>29</u>														
	Tax														
	Discount														
	Total Charge														

X Signature

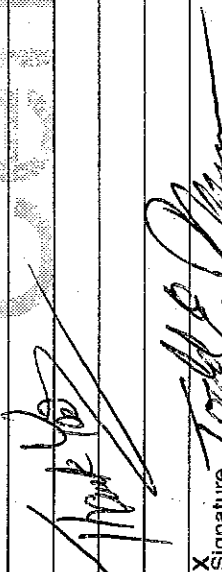
QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-288610

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

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

No. 4646

Date	5-18-11	Sec.	2	Twp.	8	Range	24	County	Grades	State	Kansas	On Location		Finish	
Lease	John American Eagle Res	Well No.	42-2	Location		Penokee 24 1E									
Contractor	Owner														
Type Job	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.														
Hole Size	7 7/8	T.D.	3880												
Csg.		Depth		Charge To	Flatious Resources LLC										
Tbg. Size		Depth		Street											
Tool		Depth		City	State										
Cement Left in Csg.		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.											
Meas Line		Displace		Cement Amount Ordered	205 cwt 40 gal										
EQUIPMENT															
Pumptrk	9	No. Cementer		Common	123										
Bulktrk	10	No. Driver		Poz. Mix	R2										
Bulktrk		No. Driver		Gel.	7										
JOB SERVICES & REMARKS															
Remarks:															
Rat Hole				Calcium											
Mouse Hole				Hulls											
Centralizers				Salt											
Baskets				Flowseal	50#										
DN or Port Collar				Kol-Seal											
				Mud CLR	48										
				CFL-117 or CD110	CAF 38										
				Sand											
				Handling	12										
				Mileage											
				Guide Shoe	FLOAT EQUIPMENT										
				Centralizer											
				Baskets											
				AFU inserts											
				Float/Shoe											
				Latch Down											
					1 Day Hole Plus										
					Pumptrk Charge plus										
					Mileage 29										
					Tax										
					Discount										
					Total Charge										
Quality Oilwell Cementing															
															
X Signature															

Mud-Co / Service Mud, Inc.

100 S. Main St., Suite #310, Wichita, Ks. 67202

Report: **9**

Daily Drilling Mud Report

Date: **05/19/11** Depth: **3880**

Operator Flatiron Resources, LLC.		Contractor American Eagle Drilling	
Address Rig		Rig No. 2	
Report for Mr. John Marvin/Roger Moses		Spud Date 05/12/11	
Well Name & No. Lyon #42-2		Section 2 Twp Range 08S 24W	
Operation Plugged		State Kansas	
Present Activity Plugged	Casing 8 5/8 in. at 214	Circulation Data	
Bit Size (in.) 7 7/8	Intermediate in. at	Liner Size 6	Opposite Drill Pipe 191
Drill pipe sz 4 1/2	Production / Liner in. at	Est. Hole/DS capacities Stk / Min. 2.475	Pump Pressure 800
Drill Collar size 6 1/4	Drilling mud type Chemical	Volume in Storage Volume	Pump Make EMSCO
Sample from Flowline ___ or Pit ___	Mud Properties	Volume in Storage Volume	Pump Model D-375
Flowline Temperature		Volume in Storage Volume	Critical GPM DG/DP ##### #####
Time Sample Taken 6:50 AM	Mud Properties	Volume in Storage Volume	Cumulative Mud Cost 6,867.45
Depth (Ft.) 3,880		Mud Wt. (lbs/gal.) 9.2-9.4	MUD PROPERTIES SPECIFICATIONS
Weight (lb/gal.) 0.000		Viscosity 48-55	Filtrate 8-10cc
Mud Gradient (psi/ft.) 0.000			LCM 1-3ppb.
Funnel Viscosity (Sec/qt. API)			
Plastic Viscosity cp			
Yield Point (lb/100 sq.ft.)			
Gel Strength 10 sec/10 min.			
pH			
Filtrate API (ml/30 min.)			
Cake Thickness 32nd			
Alkalinity, Mud (Pm)			
Alkalinity, Filtrate (Pfmf)			
Chloride Content, ppm			
Calcium, ppm			
Sand Content (% by Vol)			
Solids Content (% by Vol.)			
Oil Content (% by Vol.)			
Water Content (% by Vol.)			
LCM, lbs/bbl.			
Reynold's #DP			
Reynold's # DC			
ECD lb/gal			

Sample from Flowline ___ or Pit ___		Mud Properties	
Flowline Temperature		Mud Wt. (lbs/gal.)	
Time Sample Taken 6:50 AM		Viscosity	
Depth (Ft.) 3,880	RTD		
Weight (lb/gal.) 0.000			
Mud Gradient (psi/ft.) 0.000			
Funnel Viscosity (Sec/qt. API)			
Plastic Viscosity cp			
Yield Point (lb/100 sq.ft.)			
Gel Strength 10 sec/10 min.			
pH			
Filtrate API (ml/30 min.)			
Cake Thickness 32nd			
Alkalinity, Mud (Pm)			
Alkalinity, Filtrate (Pfmf)			
Chloride Content, ppm			
Calcium, ppm			
Sand Content (% by Vol)			
Solids Content (% by Vol.)			
Oil Content (% by Vol.)			
Water Content (% by Vol.)			
LCM, lbs/bbl.			
Reynold's #DP			
Reynold's # DC			
ECD lb/gal			

FINAL REPORT

4- DST'S
 Logs- OK
 Loggers TD: 3881
 D & A
 Plugged Hole
 THANK YOU
 2 skids on location
 #1 skid 12 Gel Empty Pallets
 #2 skid The remainder of the materials

Products:	Prior Day	Delivery	On Hand	Used	Cost
Premium Gel	38		38		
Lime	4		4		
Soda Ash	12		12		
Caustic Soda	10		10		
Lignite	7		7		
C/S Hulls	89		89		
Drill Pak	3		3		
Desco	2		2		
Poly Plus	1		1		
Florigel					
Xcide					
Sapp					
Barite					
MiGuard					

*✓

* Reserve pit chlorides: 17000 ppm.
 * Reserve pit volume est: 1000 bbls.

Mud-Co / Service Mud Representative Gary Schmidtberger	Home Address Hays, Kansas	Telephone Number 785-625-4931
Cell # 785-259-2757	Warehouse Location Hays, Kansas	Telephone Number 785-621-4232



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Flatirons Resources LLC

Lyon #42-2

303 E 17th Ave STE 940
Denver, CO 80203

2/8s/24w Graham KS

ATTN: Roger Moses

Job Ticket: 042011

DST#: 1

Test Start: 2011.05.16 @ 10:24:00

GENERAL INFORMATION:

Formation: **LKC "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:18:30

Time Test Ended: 16:39:00

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 46

Interval: 3766.00 ft (KB) To 3800.00 ft (KB) (TVD)

Reference Elevations: 2377.00 ft (KB)

Total Depth: 3800.00 ft (KB) (TVD)

2370.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8366

Inside

Press @ Run Depth: 102.45 psig @ 3767.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.16

End Date:

2011.05.16

Last Calib.:

2011.05.16

Start Time: 10:24:05

End Time:

16:38:59

Time On Btm:

2011.05.16 @ 12:16:00

Time Off Btm:

2011.05.16 @ 14:31:00

TEST COMMENT: IF: Blow built to BOB (11") in 3 1/2 min.
IS: No blow back
FF: Blow built to BOB in 3 min.
FS: Blow back built to 2", then died back

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1876.62	104.29	Initial Hydro-static
3	45.27	104.19	Open To Flow (1)
13	51.67	108.44	Shut-In(1)
42	616.89	108.80	End Shut-In(1)
43	56.57	108.59	Open To Flow (2)
72	102.45	110.14	Shut-In(2)
133	605.41	111.90	End Shut-In(2)
135	1835.01	111.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
31.00	SMCGO 50%g, 43%o, 7%m	0.43
144.00	GMCO 49%o, 32%g, 19%m	2.02
65.00	CO 92%o, 6%g, 2%m	0.91
0.00	GIP = 630'	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Flatirons Resources LLC

Lyon #42-2

303 E 17th Ave STE 940
Denver, CO 80203

2/8s/24w Graham KS

Job Ticket: 042011

DST#: 1

ATTN: Roger Moses

Test Start: 2011.05.16 @ 10:24:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40.6 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
31.00	SMCGO 50%g, 43%o, 7%m	0.435
144.00	GMCO 49%o, 32%g, 19%m	2.020
65.00	CO 92%o, 6%g, 2%m	0.912
0.00	GIP = 630'	0.000

Total Length: 240.00 ft Total Volume: 3.367 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

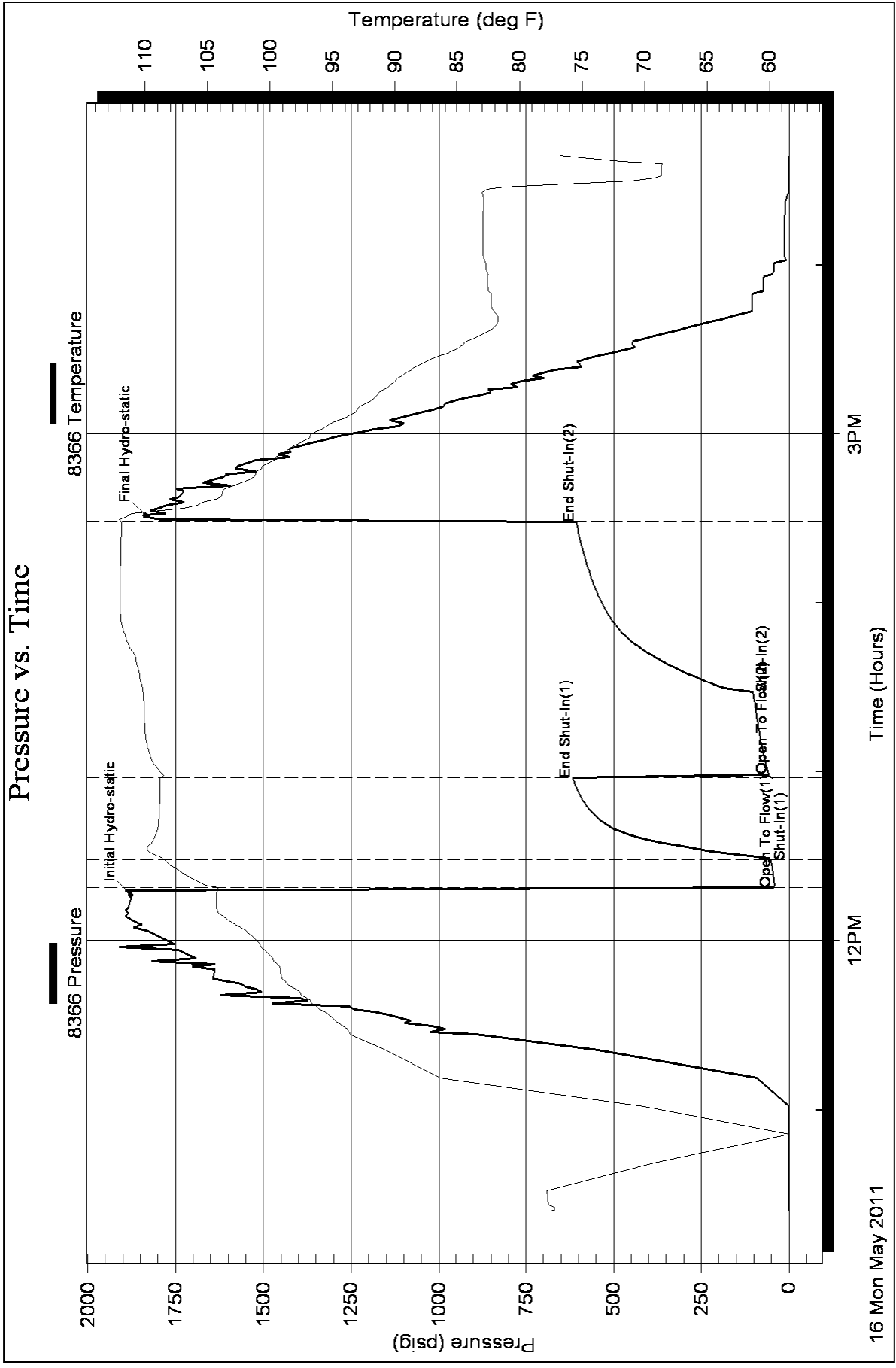
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 42.8 api @ 82 deg F

Corrected Gravity = 40.6 api





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Flatirons Resources LLC

Lyon #42-2

303 E 17th Ave STE 940
Denver, CO 80203

2/8s/24w Graham KS

ATTN: Roger Moses

Job Ticket: 042012

DST#: 2

Test Start: 2011.05.17 @ 03:57:00

GENERAL INFORMATION:

Formation: **LKC "L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:48:30

Time Test Ended: 09:47:30

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 46

Interval: 3816.00 ft (KB) To 3853.00 ft (KB) (TVD)

Reference Elevations: 2377.00 ft (KB)

Total Depth: 3853.00 ft (KB) (TVD)

2370.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8366

Inside

Press @ RunDepth: 18.96 psig @ 3817.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.17

End Date:

2011.05.17

Last Calib.:

2011.05.17

Start Time:

03:57:05

End Time:

09:47:29

Time On Btm:

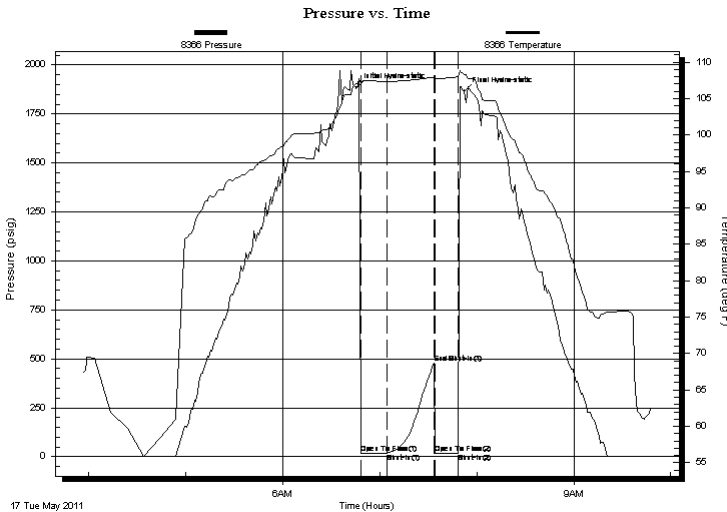
2011.05.17 @ 06:46:00

Time Off Btm:

2011.05.17 @ 07:52:30

TEST COMMENT: IF: Blow built to 3/4"
IS: No blow back
FF: No blow - Pulled tool

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1883.17	107.08	Initial Hydro-static
3	17.51	107.24	Open To Flow (1)
19	18.96	107.36	Shut-In(1)
48	476.70	107.95	End Shut-In(1)
48	19.43	107.77	Open To Flow (2)
63	19.65	108.01	Shut-In(2)
67	1864.87	108.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	SOCM 97% m, 3% o	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Flatirons Resources LLC

Lyon #42-2

303 E 17th Ave STE 940
Denver, CO 80203

2/8s/24w Graham KS

Job Ticket: 042012

DST#: 2

ATTN: Roger Moses

Test Start: 2011.05.17 @ 03:57:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
2.00	SOCM 97% _m , 3% _o	0.028

Total Length: 2.00 ft Total Volume: 0.028 bbl

Num Fluid Samples: 0

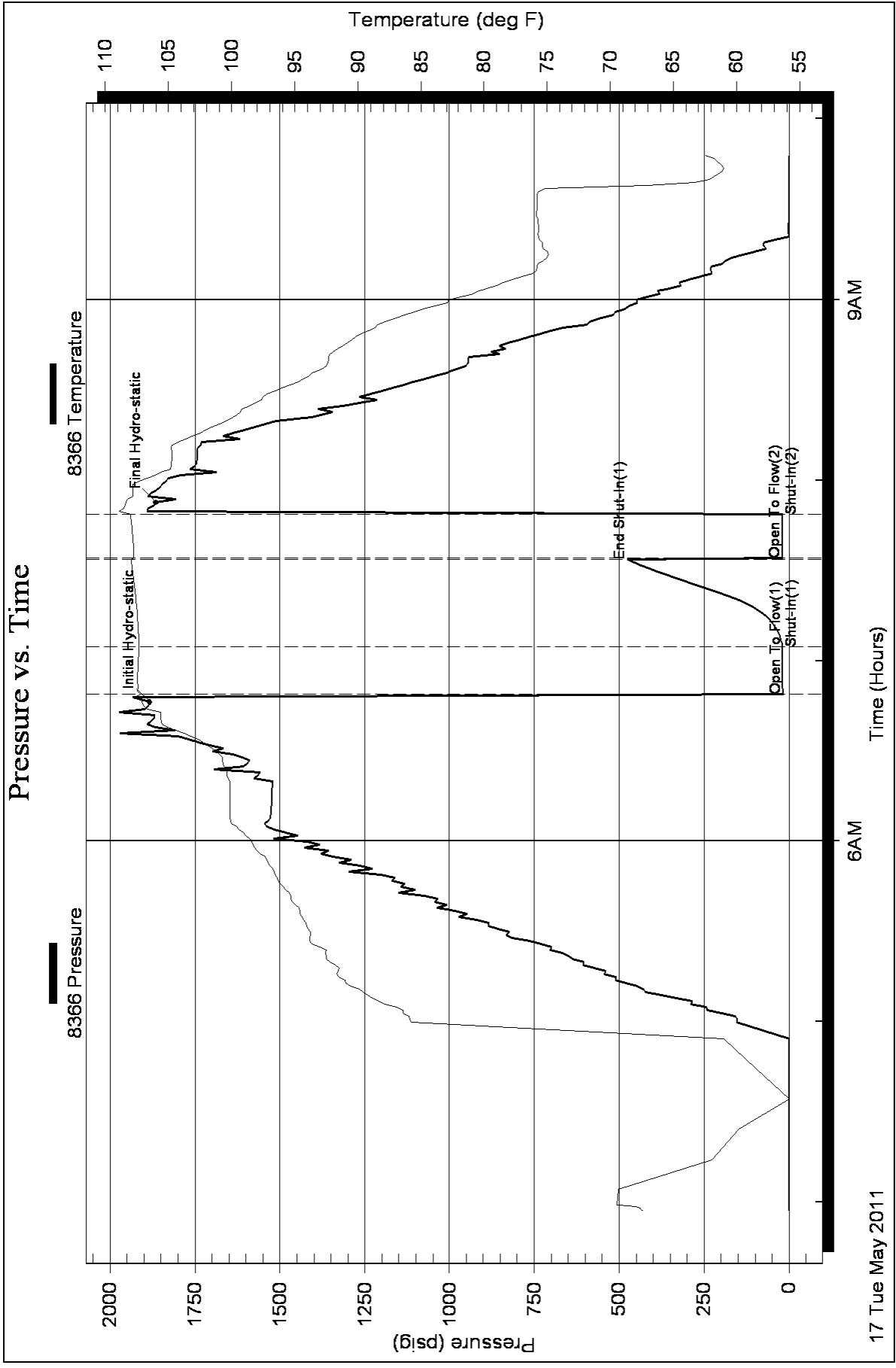
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Flatirons Resources LLC

Lyon #42-2

303 E 17th Ave STE 940
Denver, CO 80203

2/8s/24w Graham KS

ATTN: Roger Moses

Job Ticket: 042013

DST#: 3

Test Start: 2011.05.17 @ 10:53:00

GENERAL INFORMATION:

Formation: **LKC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:14:00

Time Test Ended: 16:51:00

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 46

Interval: 3807.00 ft (KB) To 3853.00 ft (KB) (TVD)

Reference Elevations: 2377.00 ft (KB)

Total Depth: 3853.00 ft (KB) (TVD)

2370.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8366

Inside

Press @ Run Depth: 20.52 psig @ 3808.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.17

End Date:

2011.05.17

Last Calib.:

2011.05.17

Start Time: 10:53:05

End Time:

16:50:59

Time On Btm:

2011.05.17 @ 12:12:00

Time Off Btm:

2011.05.17 @ 15:06:00

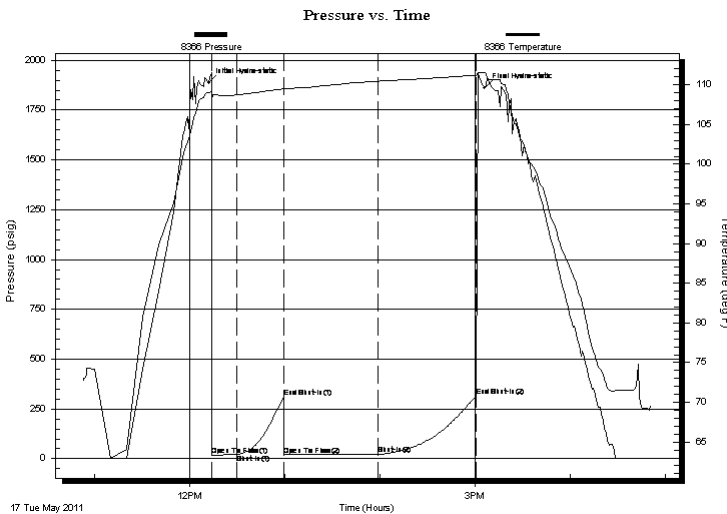
TEST COMMENT: IF: Blow built to 3/4"

IS: No blow back

FF: Surface blow for 10 min., then occasional bubbles

FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1885.36	109.05	Initial Hydro-static
2	19.11	108.00	Open To Flow (1)
18	19.77	108.73	Shut-In(1)
47	308.85	109.49	End Shut-In(1)
48	19.37	109.35	Open To Flow (2)
107	20.52	110.45	Shut-In(2)
169	314.90	111.22	End Shut-In(2)
174	1859.97	111.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	Mud w /trace of oil 100%m	0.06

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Flatirons Resources LLC

Lyon #42-2

303 E 17th Ave STE 940
Denver, CO 80203

2/8s/24w Graham KS

Job Ticket: 042013

DST#: 3

ATTN: Roger Moses

Test Start: 2011.05.17 @ 10:53:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	Mud w /trace of oil 100%m	0.056

Total Length: 4.00 ft Total Volume: 0.056 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

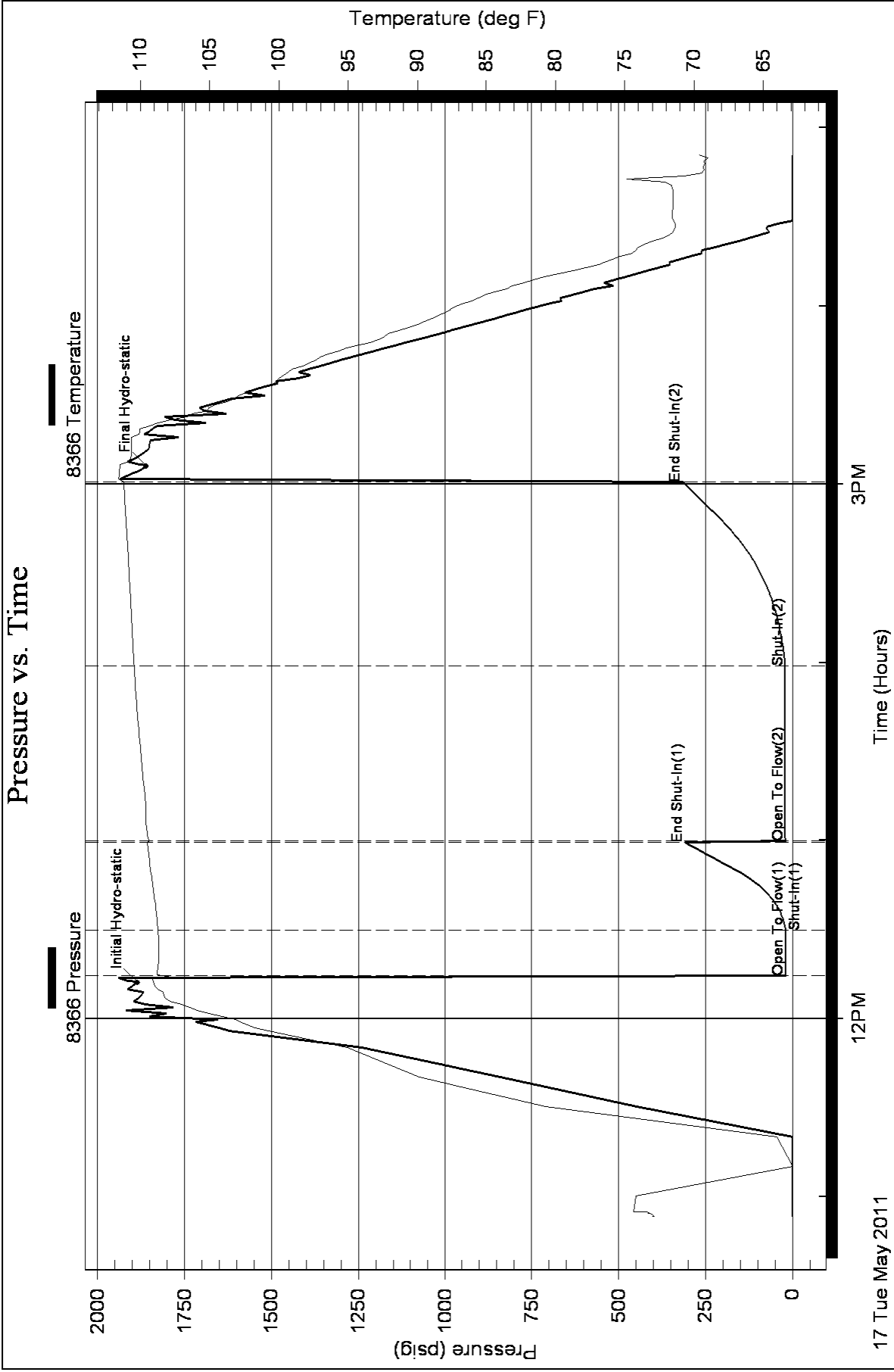
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Flatirons Resources, LLC

Lyon #42-2

303 E. 17th Avenue
Suite 940
Denver, CO. 80203
ATTN: Roger Moses

2-8s-24w-Graham

Job Ticket: 42392

DST#: 4

Test Start: 2011.05.18 @ 08:03:42

GENERAL INFORMATION:

Formation: **C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:29:57

Time Test Ended: 15:25:27

Test Type: Conventional Straddle

Tester: Jason McLemore

Unit No: 54

Interval: 3649.00 ft (KB) To 3687.00 ft (KB) (TVD)

Reference Elevations: 2377.00 ft (KB)

Total Depth: 3880.00 ft (KB) (TVD)

2370.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8673

Inside

Press @ Run Depth: 357.95 psig @ 3658.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.05.18

End Date:

2011.05.18

Last Calib.:

2011.05.18

Start Time: 08:03:44

End Time:

15:25:27

Time On Btm:

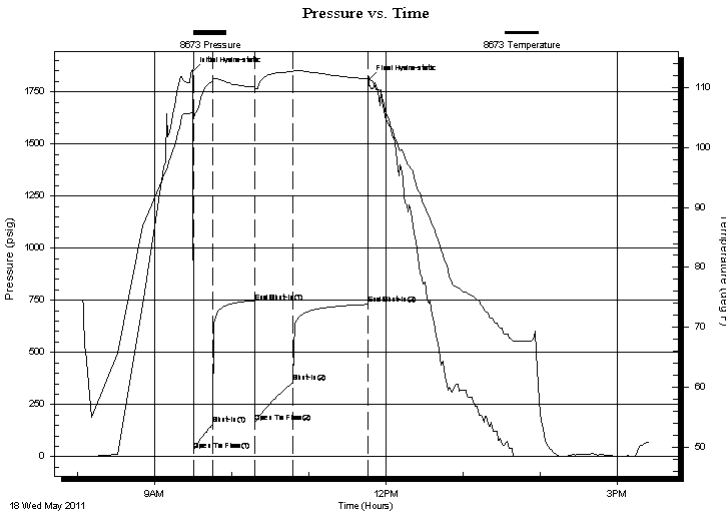
2011.05.18 @ 09:29:27

Time Off Btm:

2011.05.18 @ 11:46:12

TEST COMMENT: IFP-Strong, BOB in 4 Min.
ISI-Dead
FFP-Strong, BOB in 6 Min.
FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1848.54	105.94	Initial Hydro-static
1	32.52	104.86	Open To Flow (1)
16	157.24	111.21	Shut-In(1)
48	743.38	110.12	End Shut-In(1)
49	164.50	109.87	Open To Flow (2)
79	357.95	112.77	Shut-In(2)
136	730.31	111.52	End Shut-In(2)
137	1810.98	111.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
490.00	Muddy Water-90%W-10%M	6.87

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Flatirons Resources, LLC

Lyon #42-2

303 E. 17th Avenue
Suite 940
Denver, CO. 80203
ATTN: Roger Moses

2-8s-24w-Graham

Job Ticket: 42392

DST#: 4

Test Start: 2011.05.18 @ 08:03:42

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:

65000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
490.00	Muddy Water-90%W-10%M	6.873

Total Length: 490.00 ft Total Volume: 6.873 bbf

Num Fluid Samples: 0

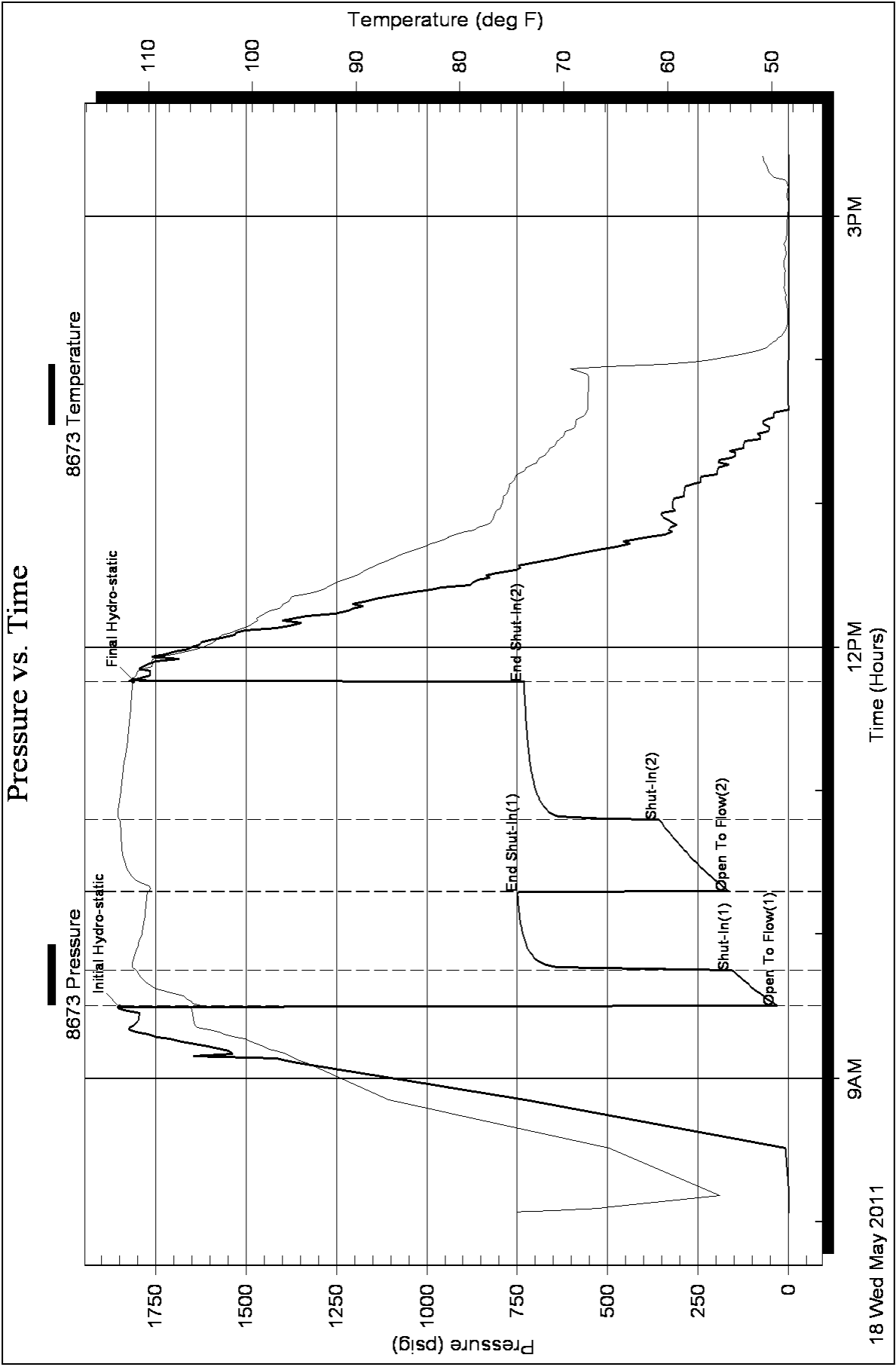
Num Gas Bombs: 0

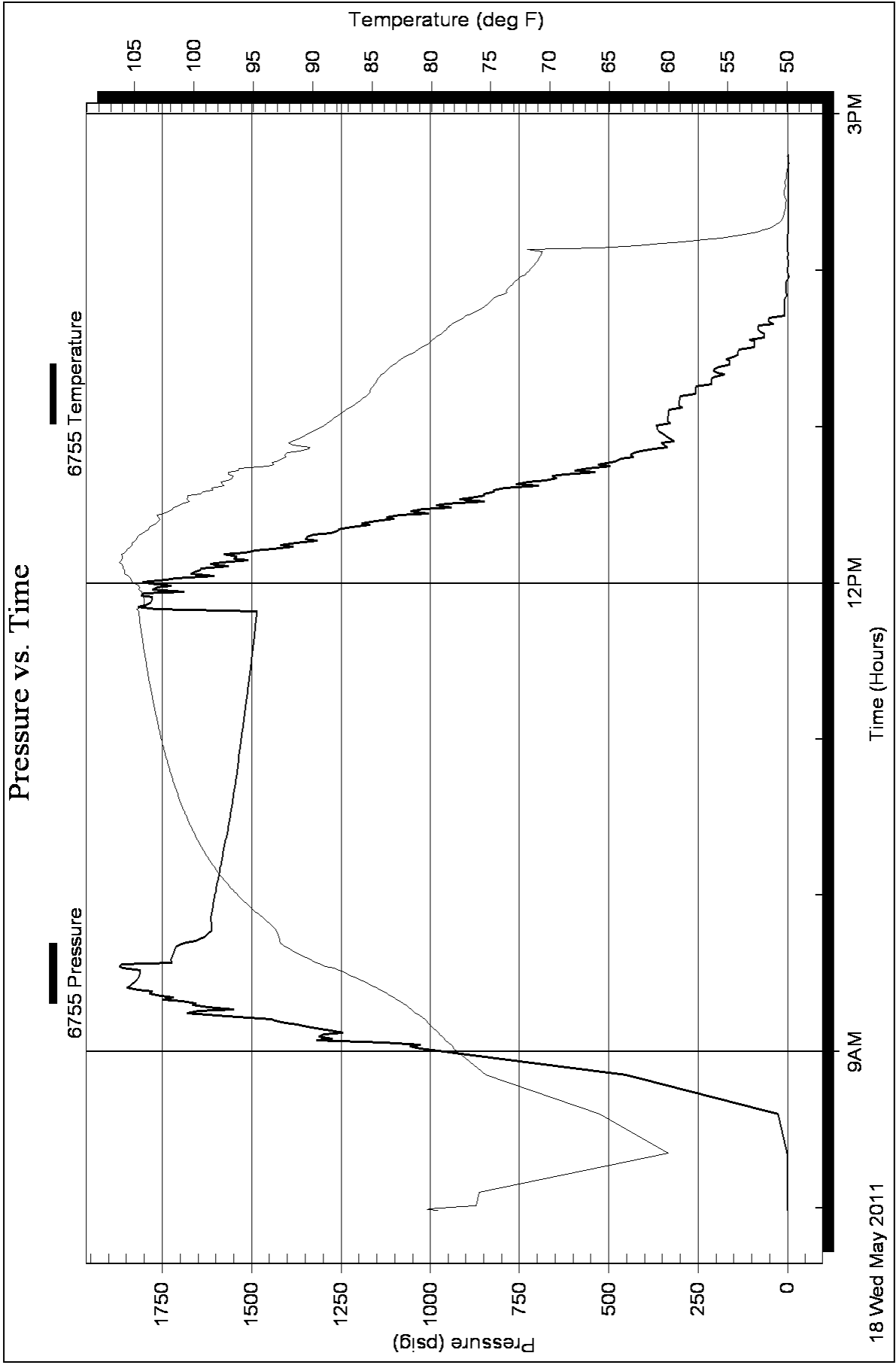
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







Computer Processed Interpretation

DIGITAL LOG (785) 625-3858

15-065-23,736-00-00

API No.

Company Flatirons Resources, LLC.

Well Lyon No. 42-2

Field Wildcat

County Graham State Kansas

Location SW SE SE NE 2500' FNL & 400' FEL

Sec: 2 Twp: 8 S Rge: 24 W

Other Services DIL/CNL/CDL BHC/S/MEL

Elevation

Permanent Datum Ground Level Elevation 2370
Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 2377
D.F. 2370
G.L. 2370

Date Recorded 5/17/2011

Depth Logger 3880

Curve Definitions

SW Water Saturation

SXO Water Saturation In The Flushed Zone

VCL Volume Of Clay

PHIE Density - Neutron Crossplot Shale Corrected

BWV Bulk Volume Water

BWMSXO 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 D Kerr K.Bange

Witnessed By Roger Moses

Analysis By Dale Legleiter

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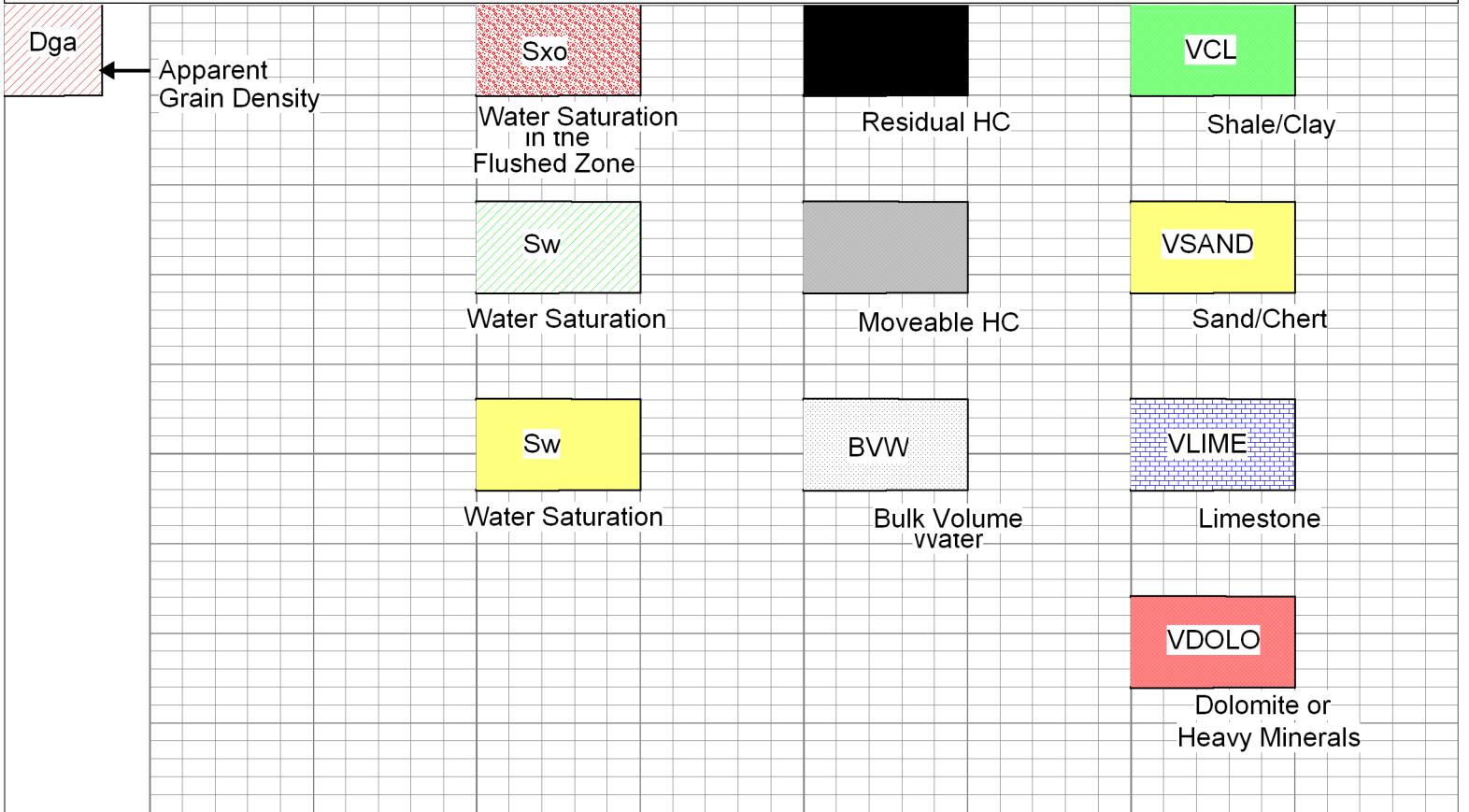
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

Comments

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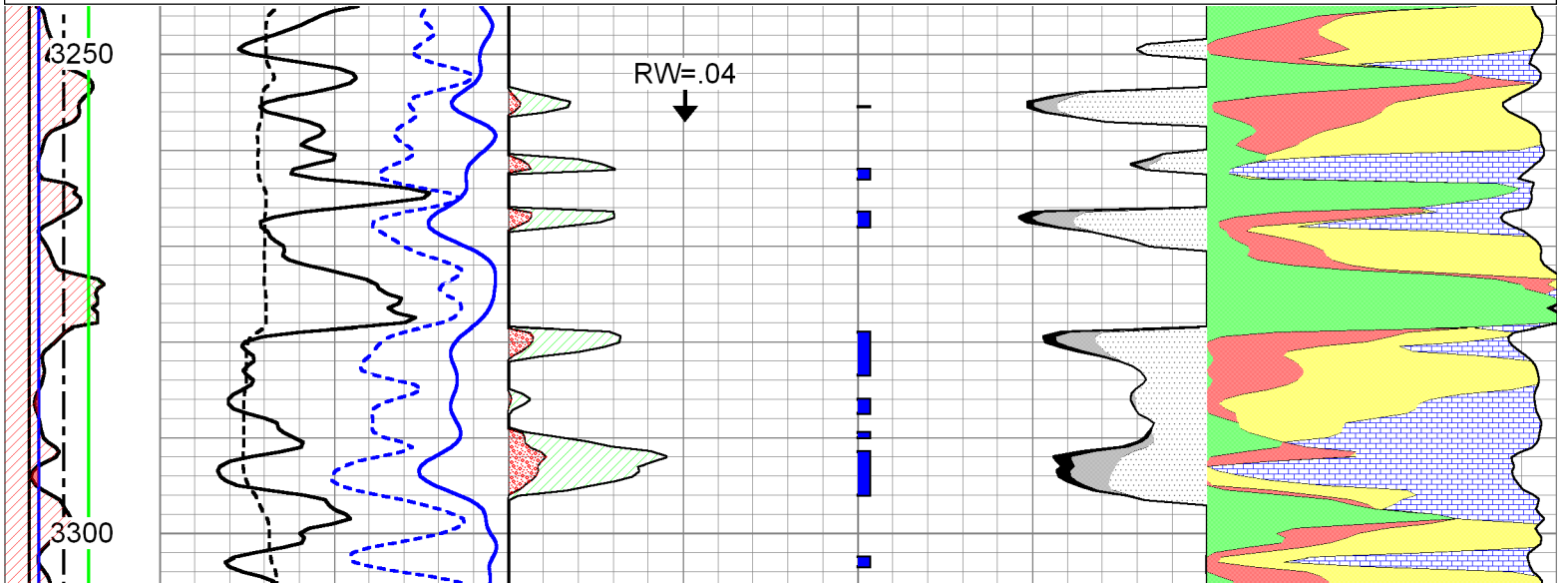
Hill City KS, 6 West to 200 Rd,
2 North to S Rd, 3/4 East, South Into

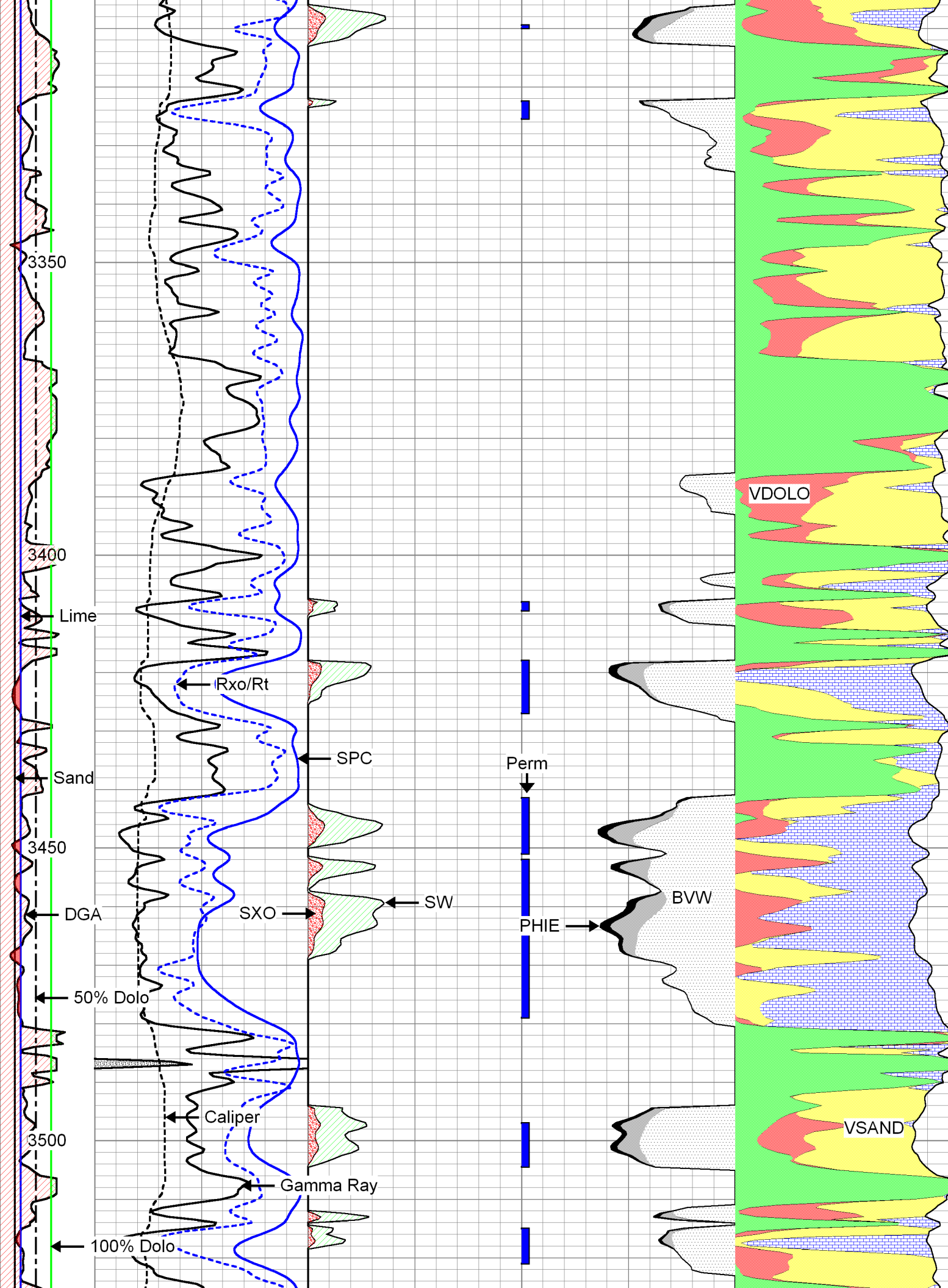
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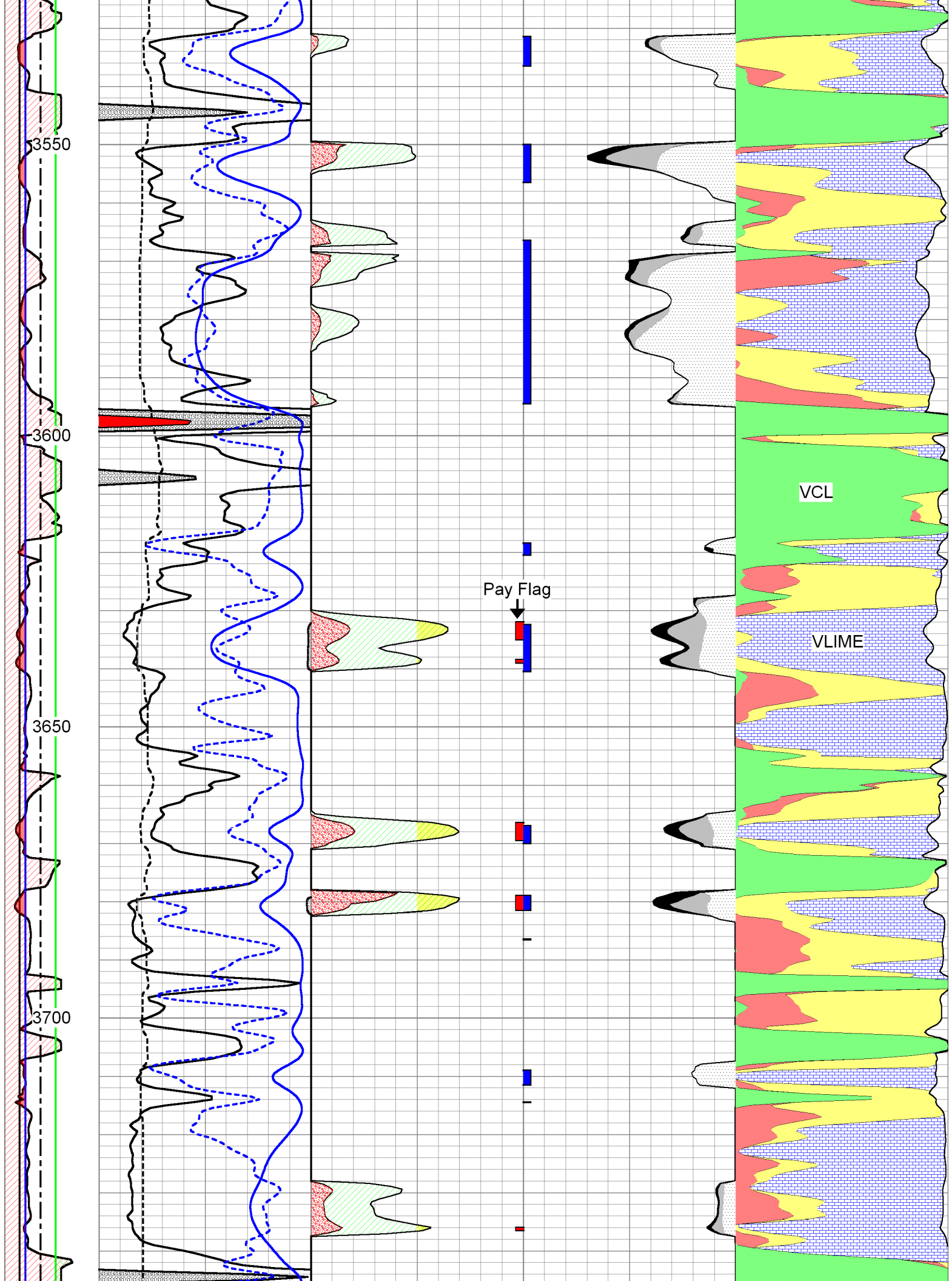


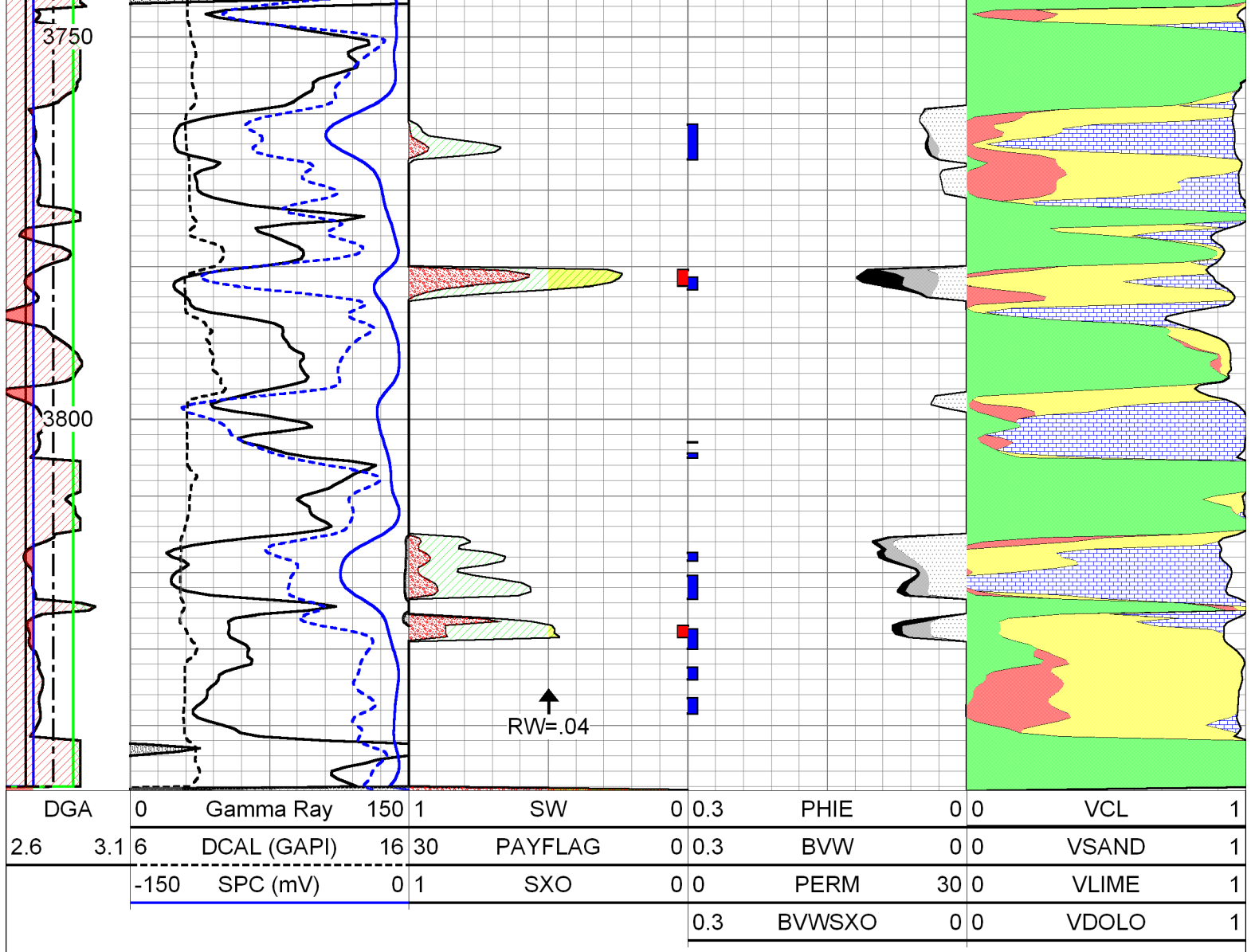
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 Dataset Pathname: cpi/flatcpi
 Presentation Format: aalitho
 Dataset Creation: Wed May 18 05:31:13 2011
 Charted by: Depth in Feet scaled 1:240

DGA	0	Gamma Ray	150	1	SW	0	0.3	PHIE	0	0	VCL	1	
2.6	3.1	6	DCAL (GAPI)	16	30	PAYFLAG	0	0.3	BVW	0	0	VSAND	1
		-150	SPC (mV)	0	1	SXO	0	0	PERM	30	0	VLIME	1
							0.3	BVWSXO	0	0	0	VDOLO	1











DIGITAL LOG (785) 625-3858

Dual Induction Log

API No.	15-065-23,736-00-00	
Company	Flatirons Resources, LLC.	
Well	Lyon No. 42-2	
Field	Wildcat	
County	Graham	State Kansas
Location	SW SE SE NE 2500' FNL & 400' FEL	
Sec: 2	Twp: 8 S	Rge: 24 W
Other Services	CNL/CDL MEL/BHCS	

Permanent Datum	Ground Level	Elevation 2370
Log Measured From	Kelly Bushing	7 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	
Date	5/17/2011	

Run Number	One
Depth Driller	3880
Depth Logger	3880
Bottom Logged Interval	3879
Top Log Interval	200
Casing Driller	8.625 @ 214
Casing Logger	220
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	1200
Density / Viscosity	9.3 56
pH / Fluid Loss	10.5 6.4
Source of Sample	Flowline
Rm @ Meas. Temp	.95 @ 64
Rmf @ Meas. Temp	.71 @ 64
Rmc @ Meas. Temp	1.28 @ 64
Source of Rmf / Rmc	Charts
Rm @ BHT	.53 @ 115
Operating Rig Time	5 Hours
Max Rec. Temp. F	115
Equipment Number	4
Location	Hays
Recorded By	D. Kerr
Witnessed By	Roger Moses

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Comments

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 (785) 625-3858

Hill City KS, 6 West to 200 Rd,
 2 North to S Rd, 3/4 East, South Into

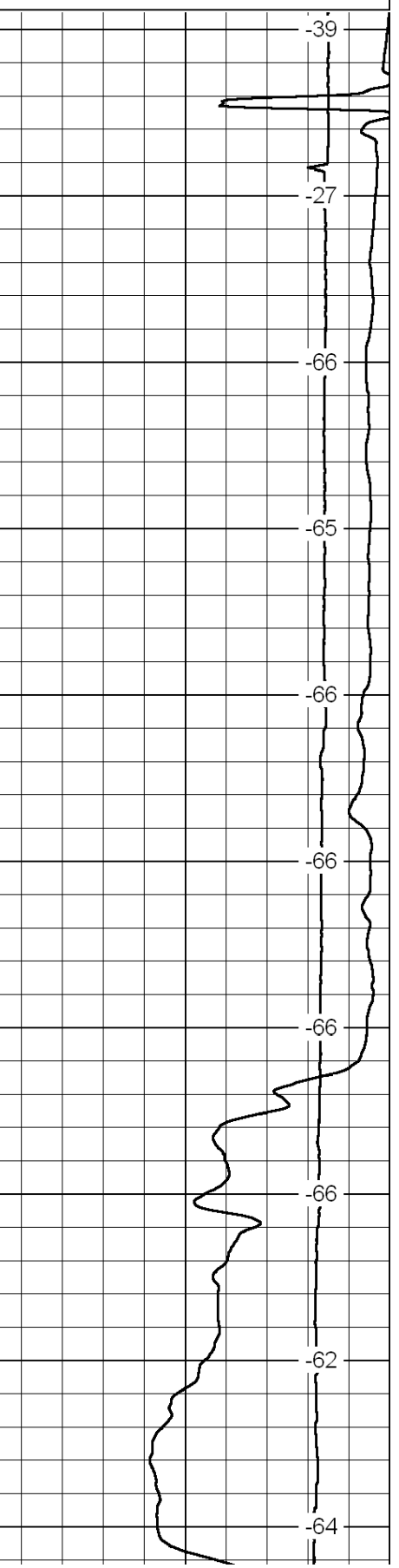
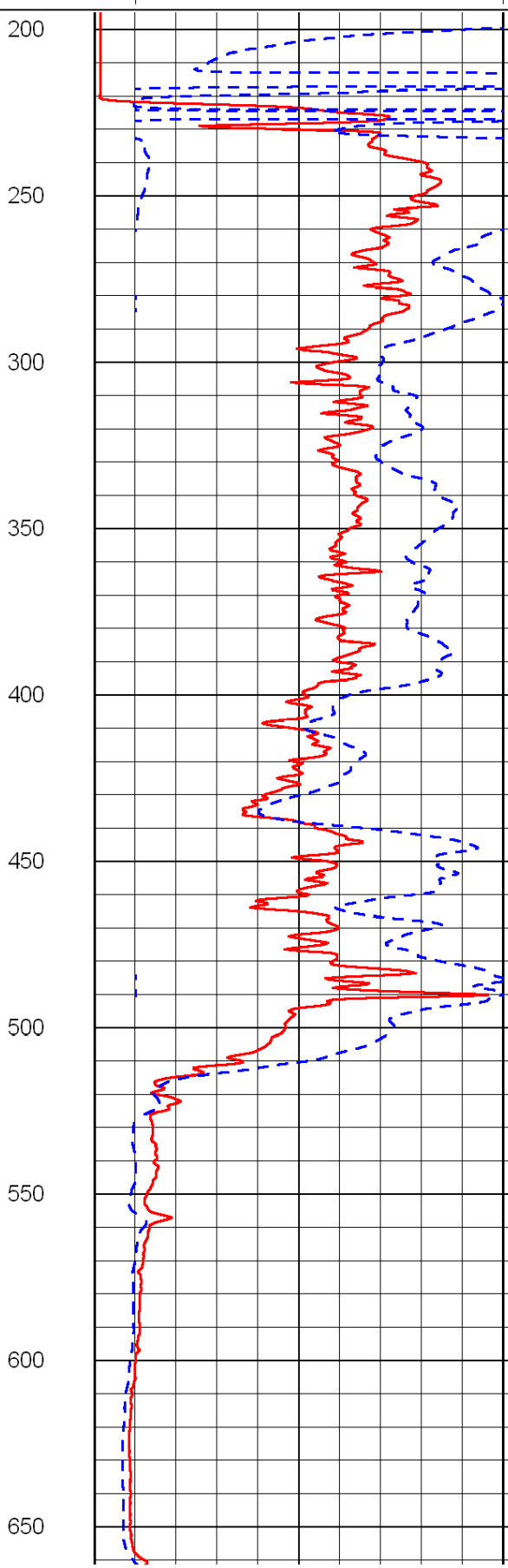
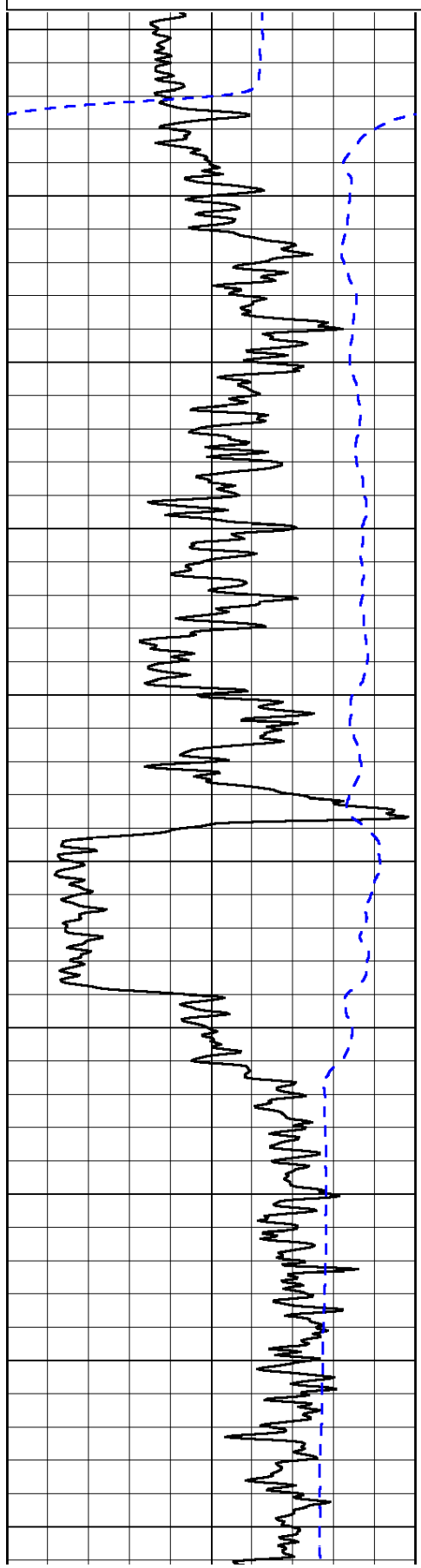
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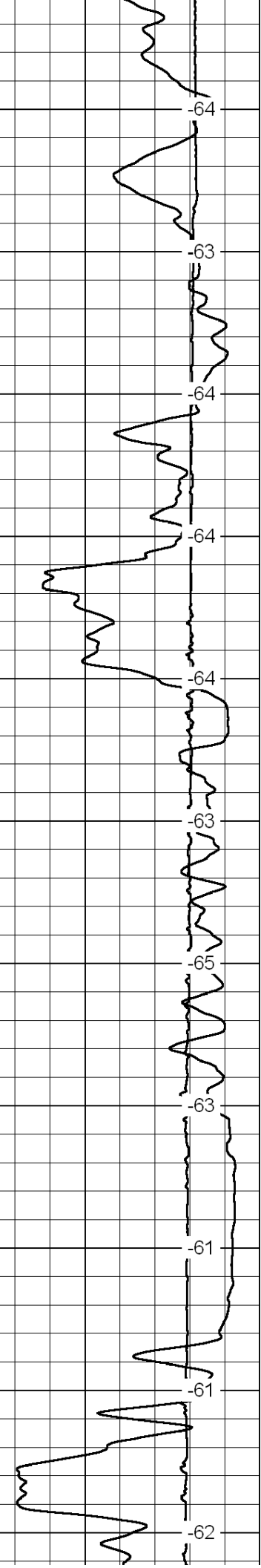
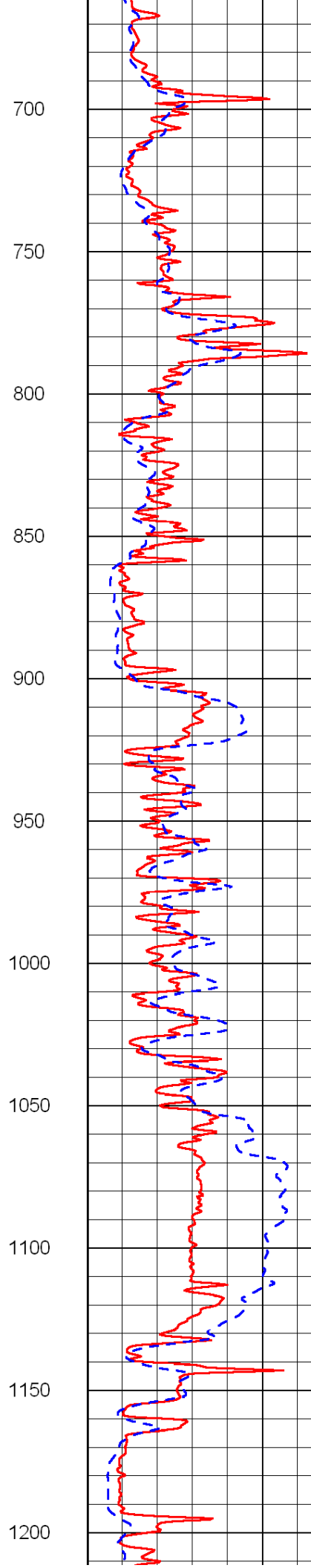
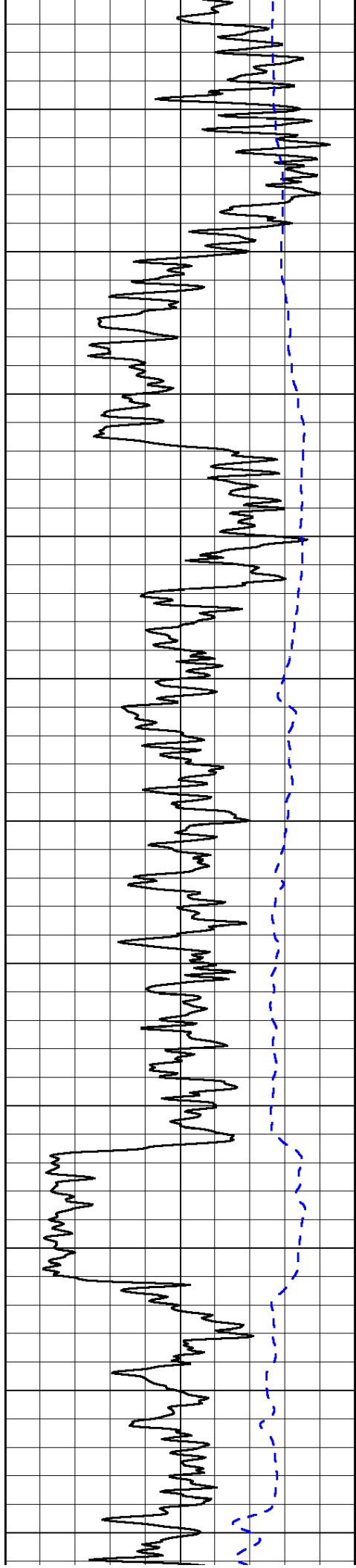
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0	Deep Resistivity	50

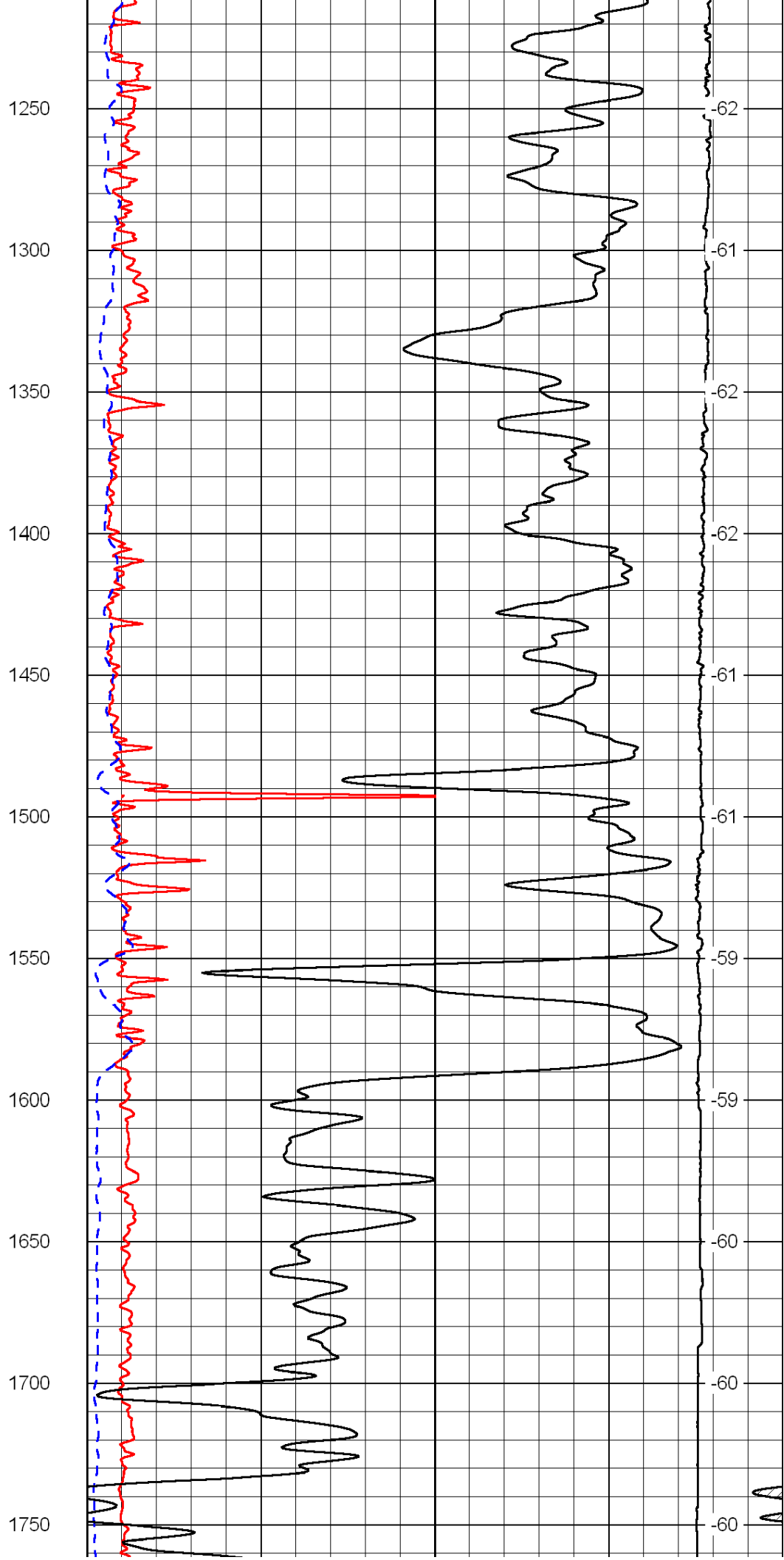
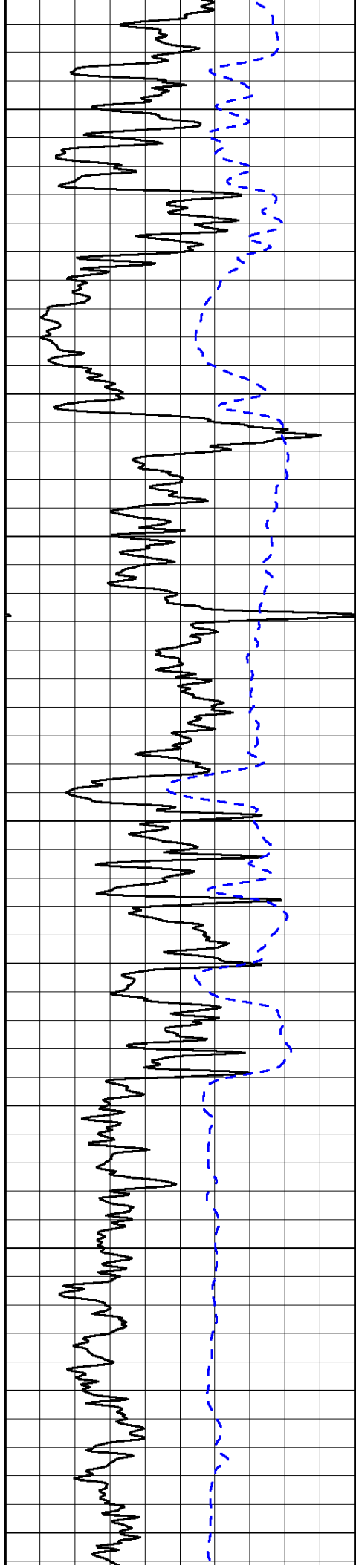
LSPD

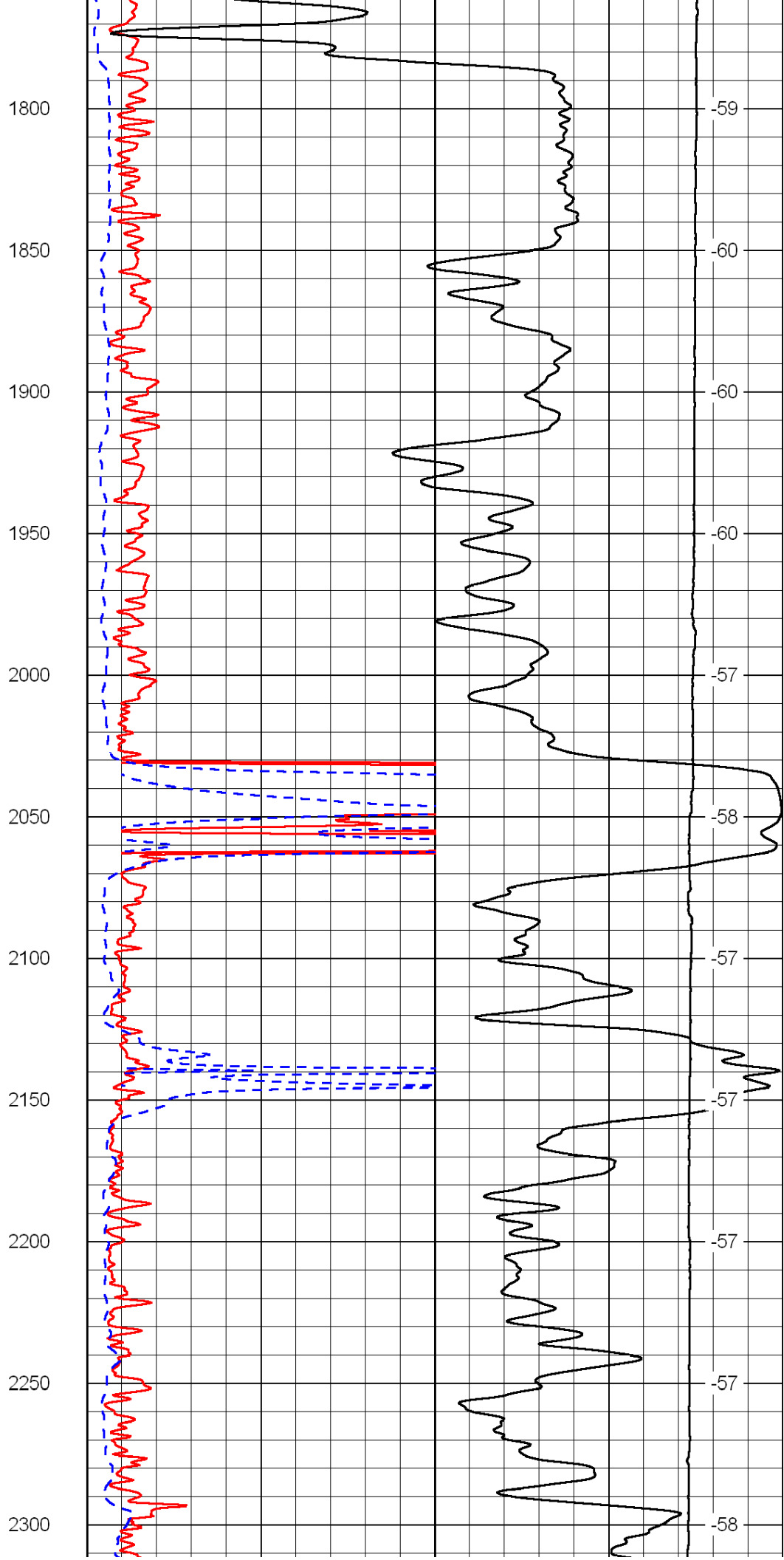
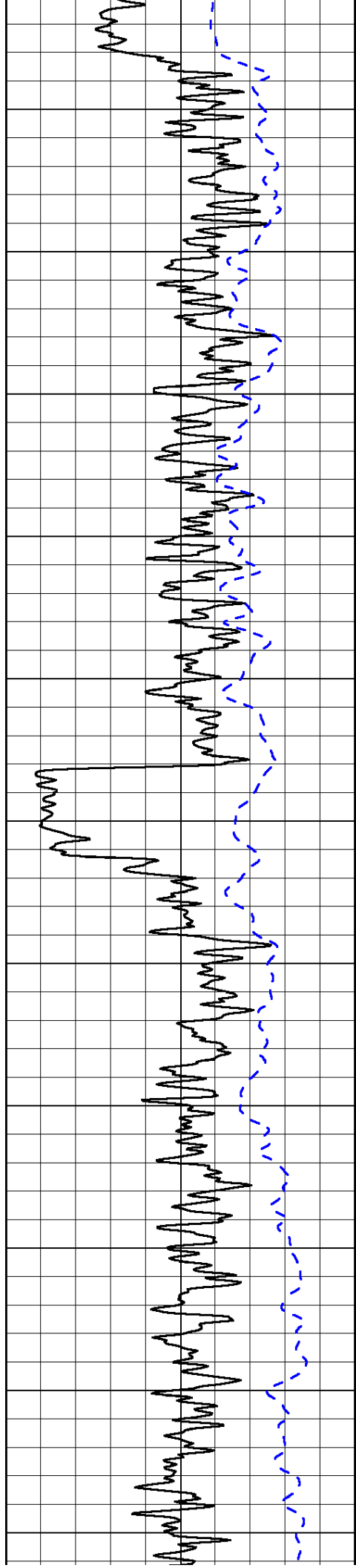
1000	Conductivity	0
15000	Line Tension	0

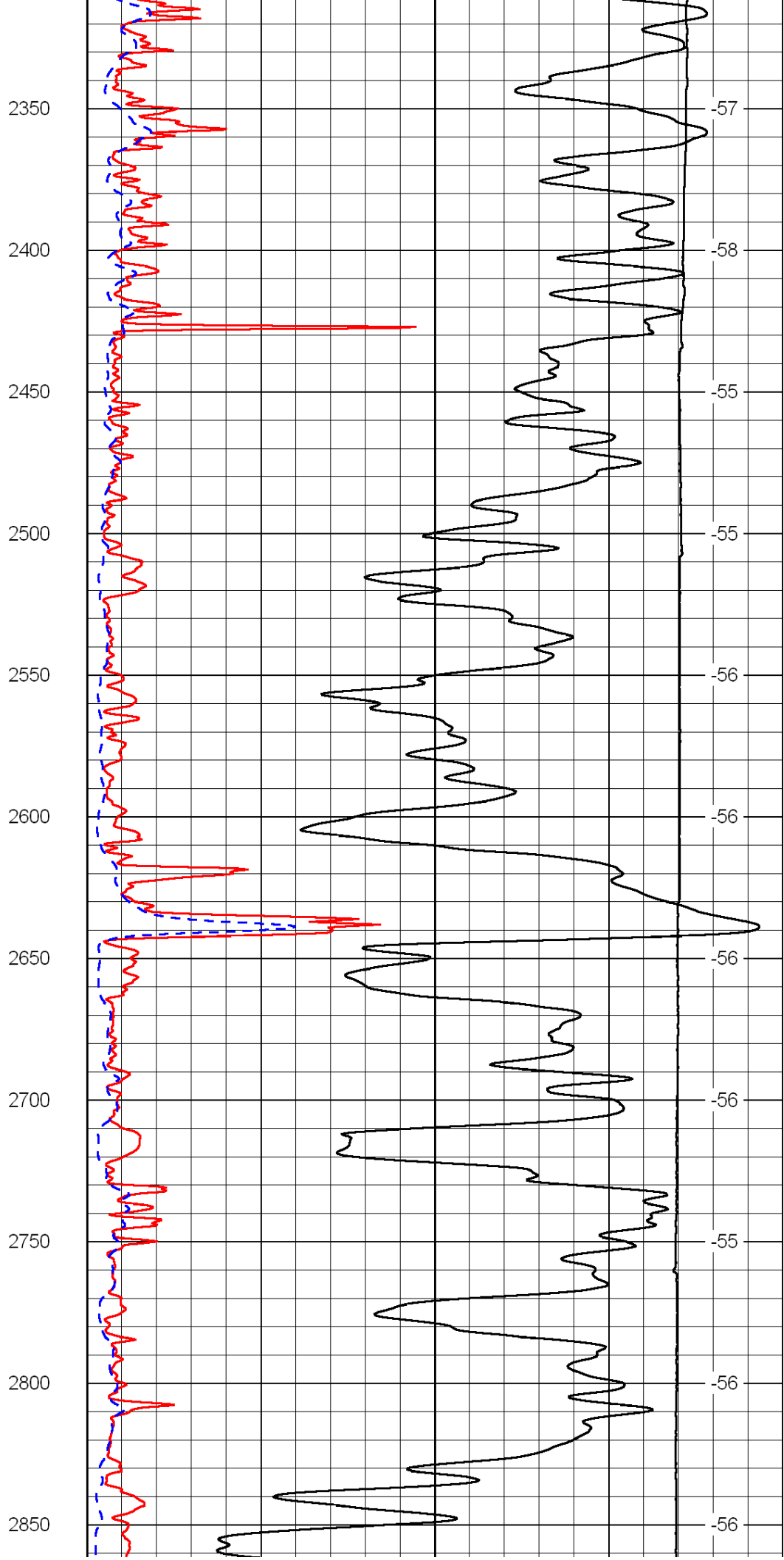
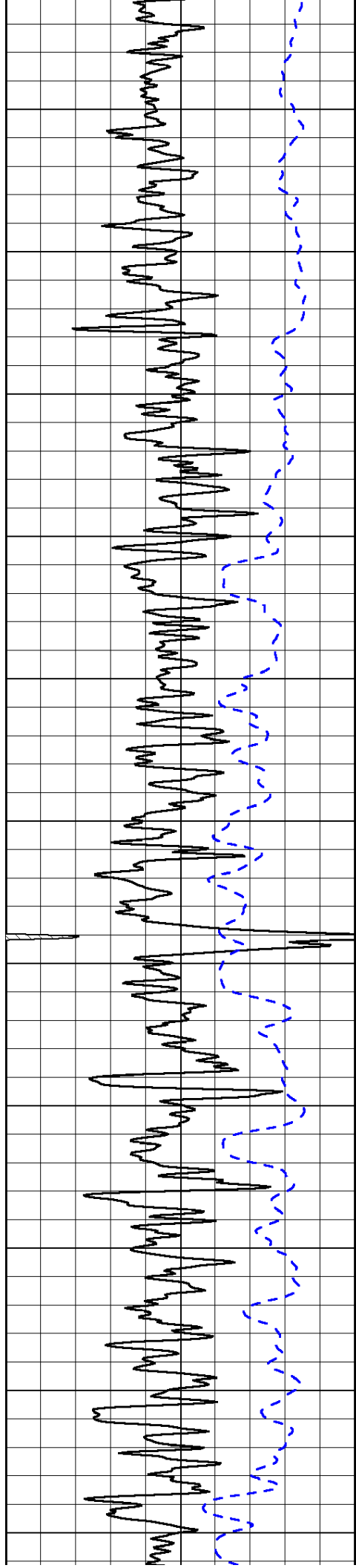
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50	Deep Resistivity	500

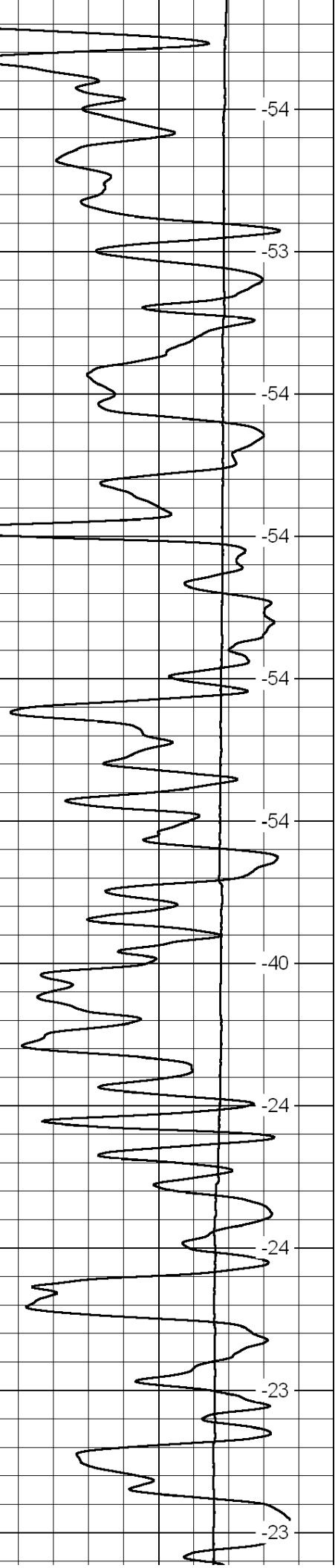
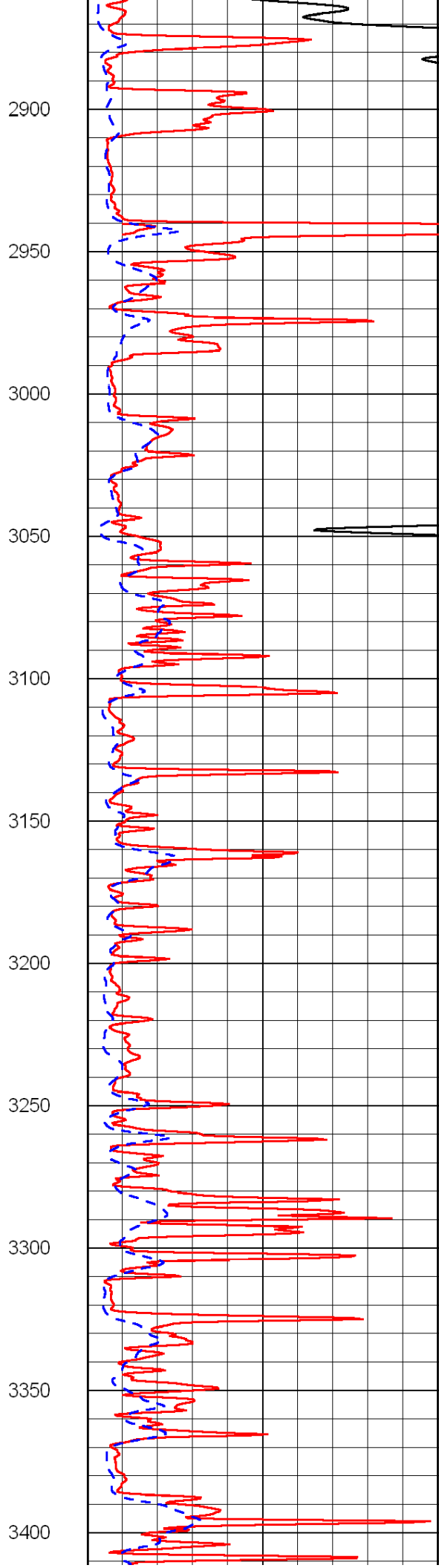
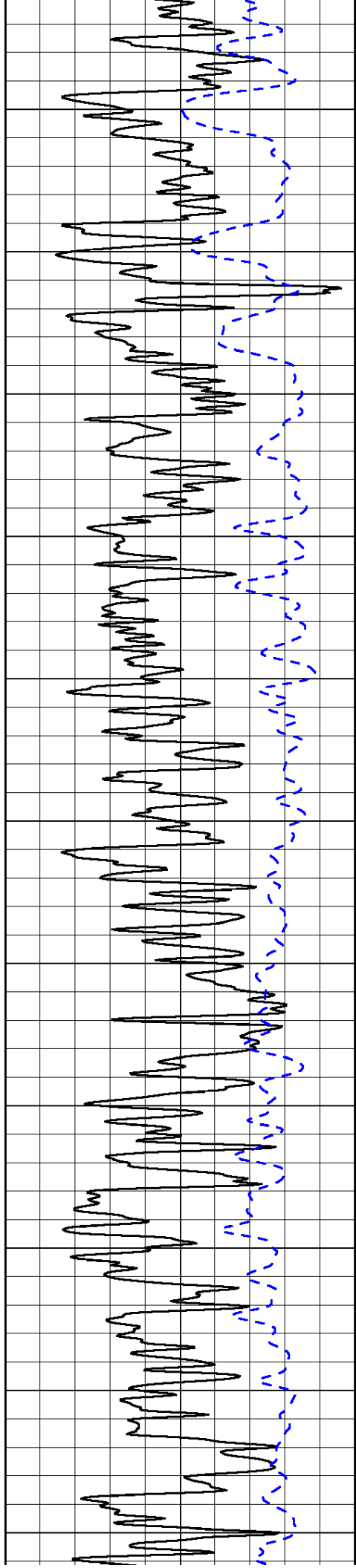


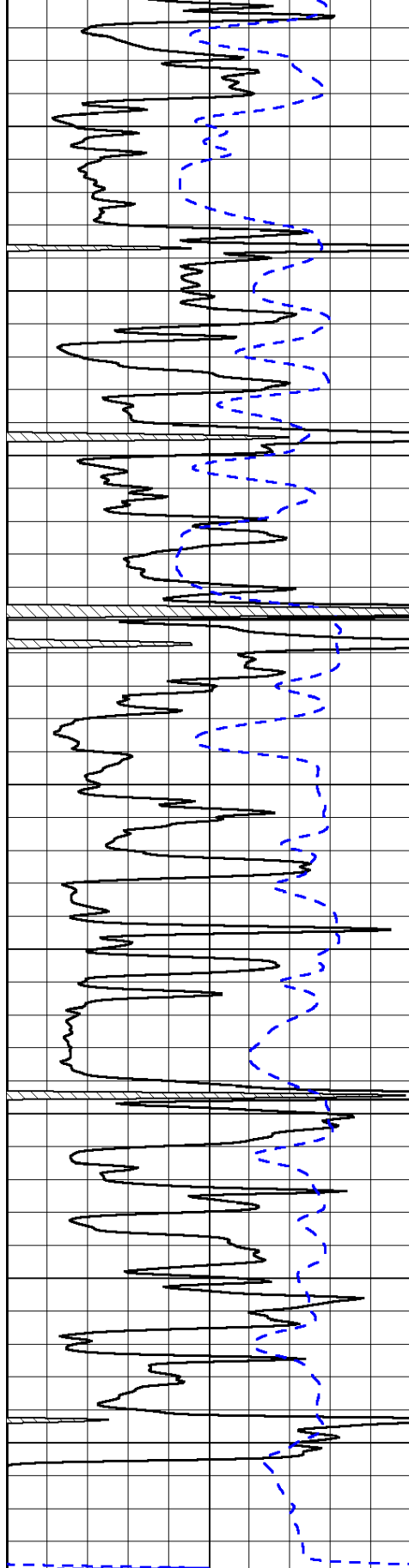




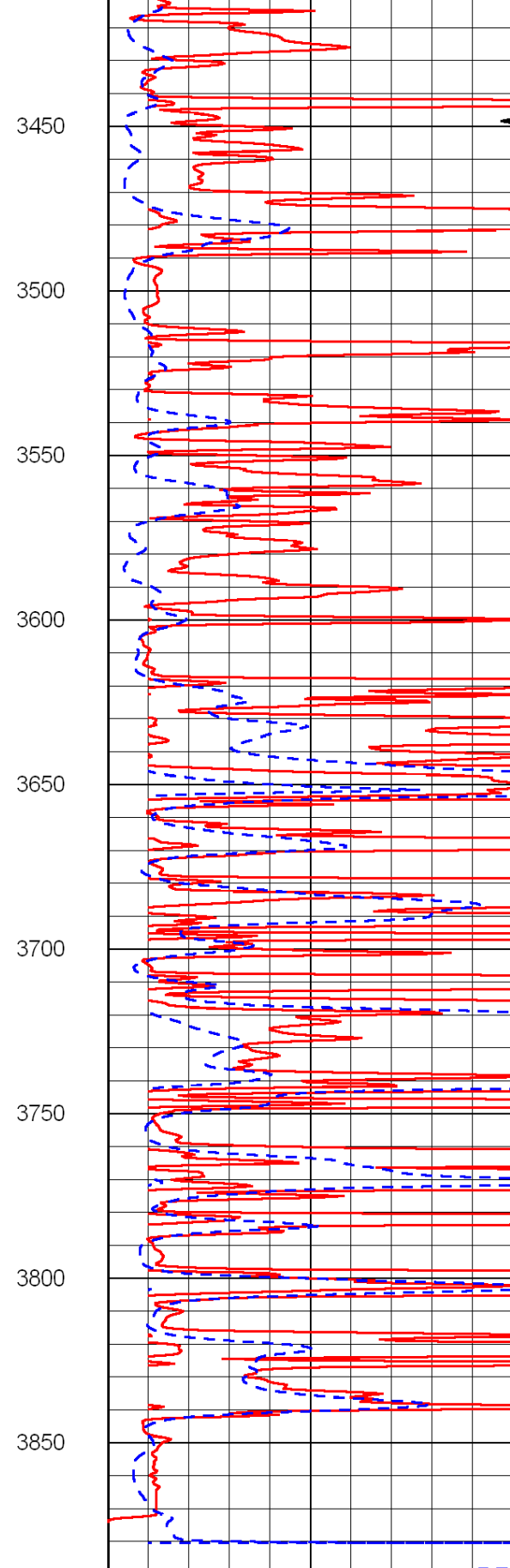




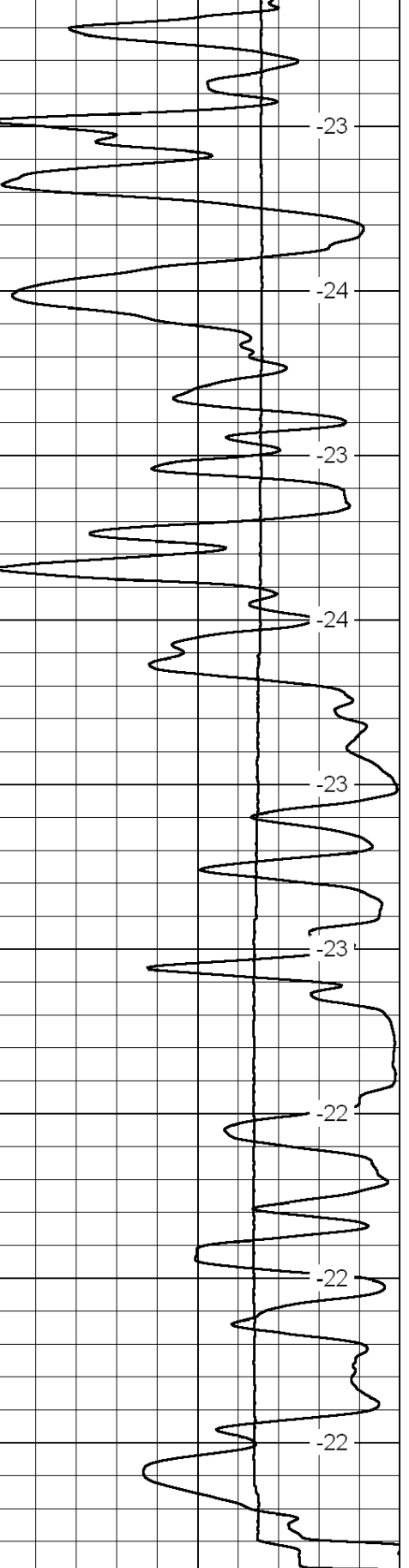




0 Gamma Ray 150
 -200 SP (mV) 0



0 Shallow Resistivity 50
 0 Deep Resistivity 50



1000 Conductivity 0
 15000 Line Tension 0

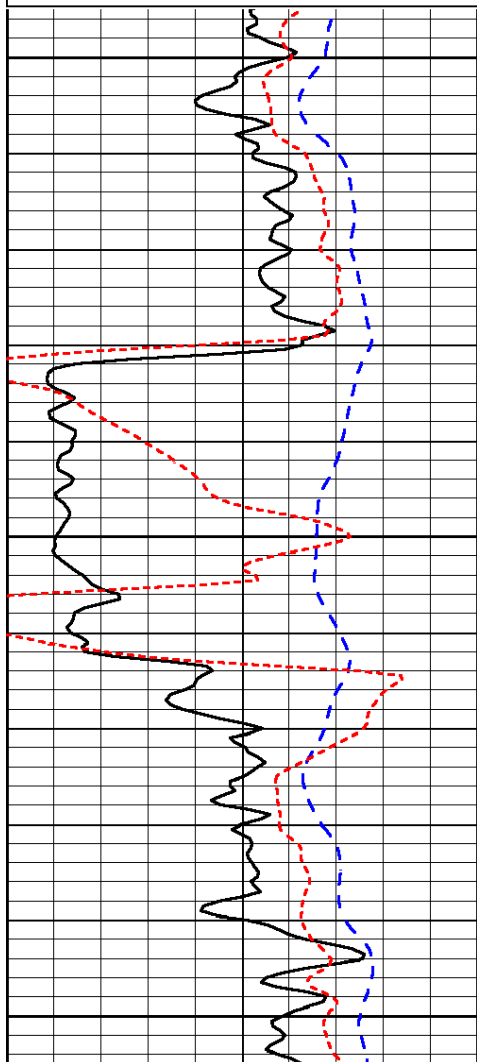
50 Shallow Resistivity 500
 50 Deep Resistivity 500

Database File: c:\warrior\data\flatirons_lyon no. 42-2\flatirons051711hd.db
 Dataset Pathname: DIL/flatstack
 Presentation Format: dil
 Dataset Creation: Wed May 18 03:12:21 2011
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

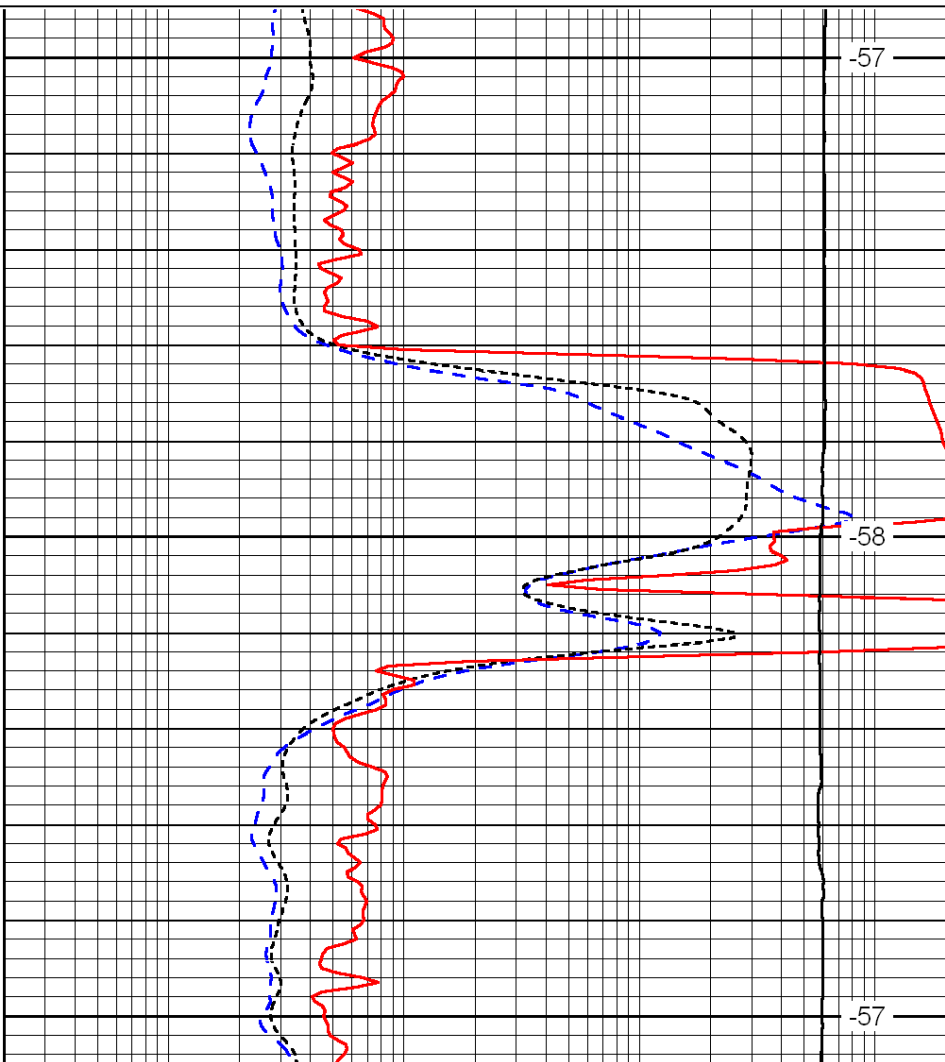
LSPD



2000

2050

2100



-57

-58

-57

0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD

Database File: c:\warrior\data\flatirons_lyon no. 42-2\flatirons051711hd.db
 Dataset Pathname: DIL/flatstack
 Presentation Format: dil
 Dataset Creation: Wed May 18 03:12:21 2011
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-200	SP (mV)	0

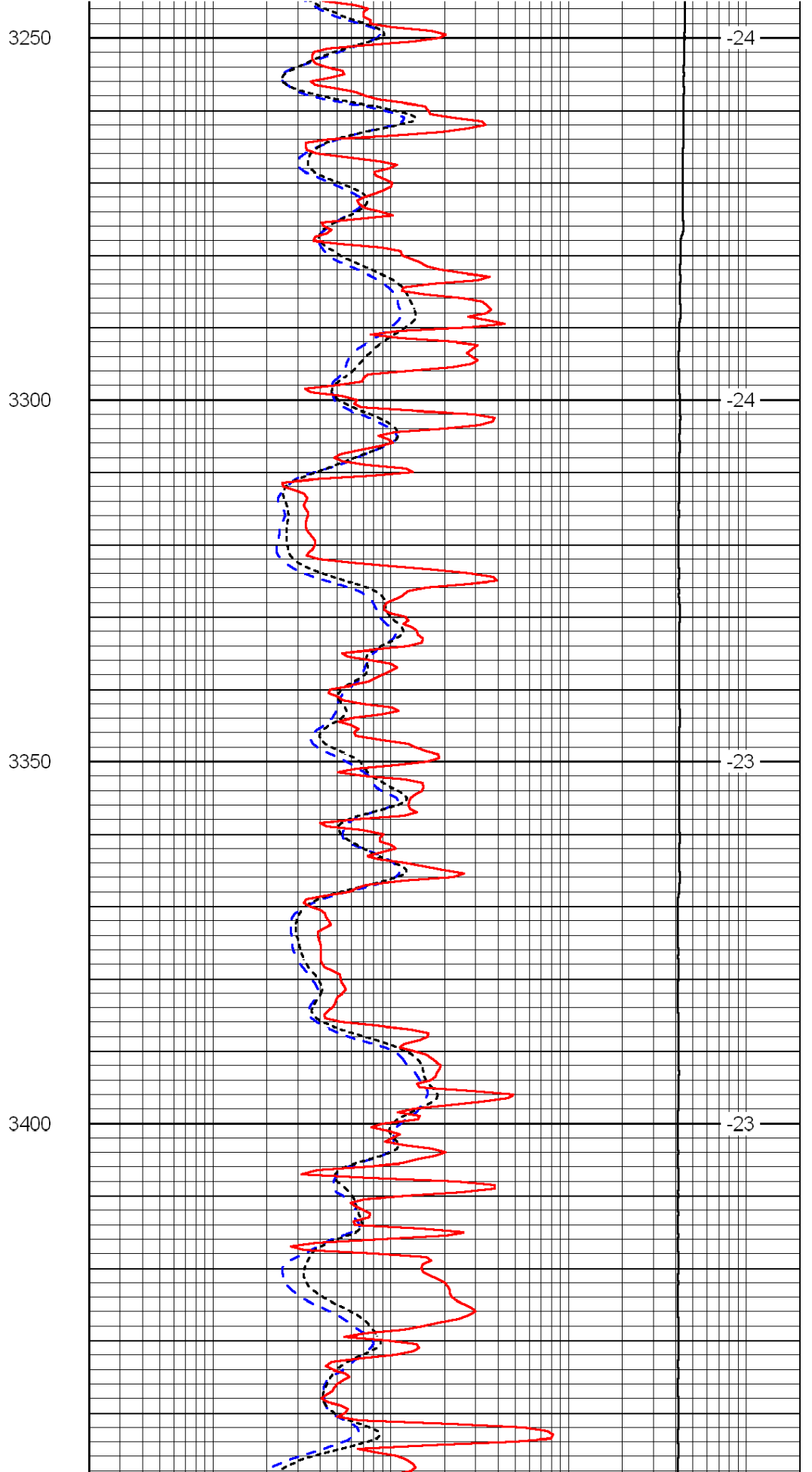
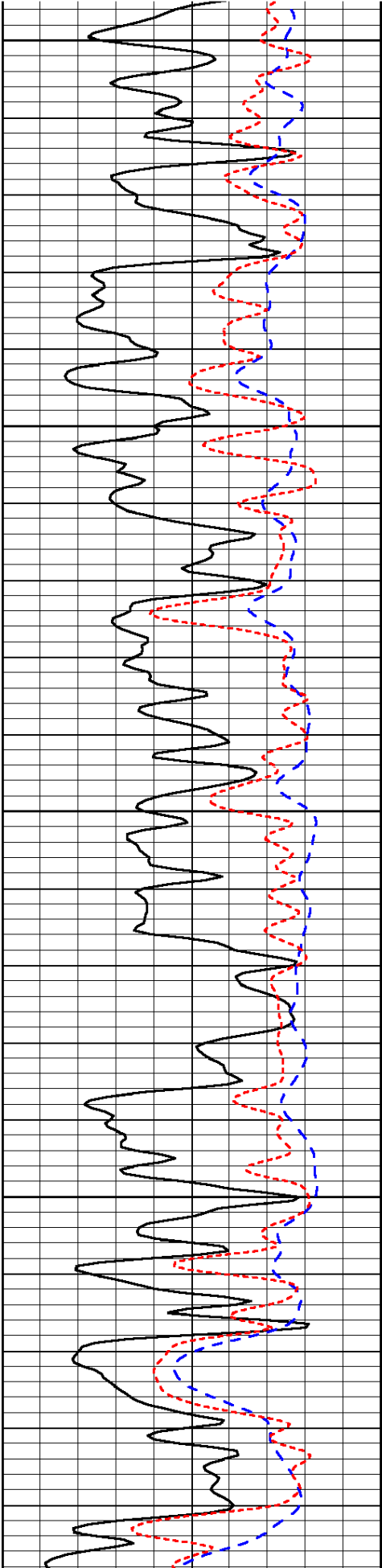
0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000

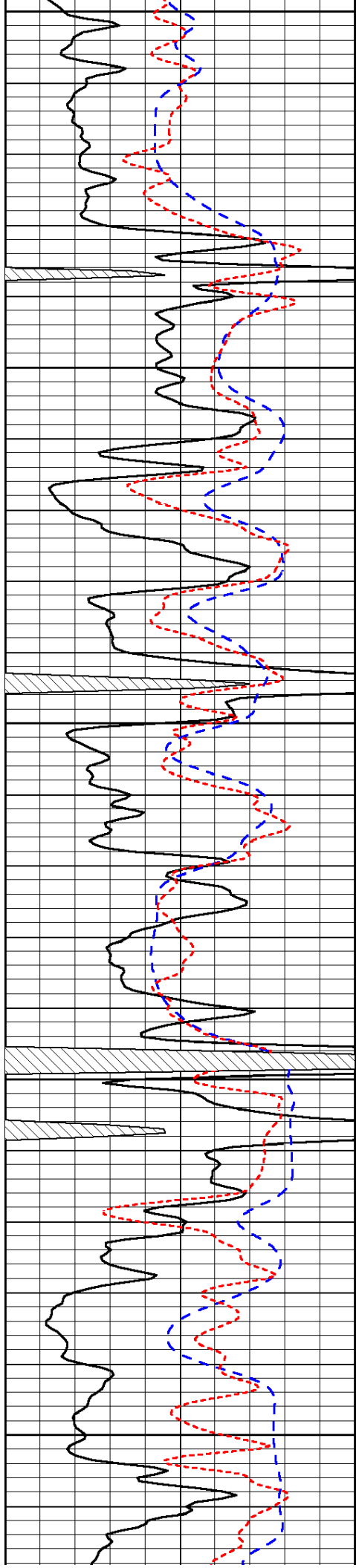
-160 Rxo / Rt 40

0.2 Shallow Resistivity 2000

15000 Line Tension 0

LSPD





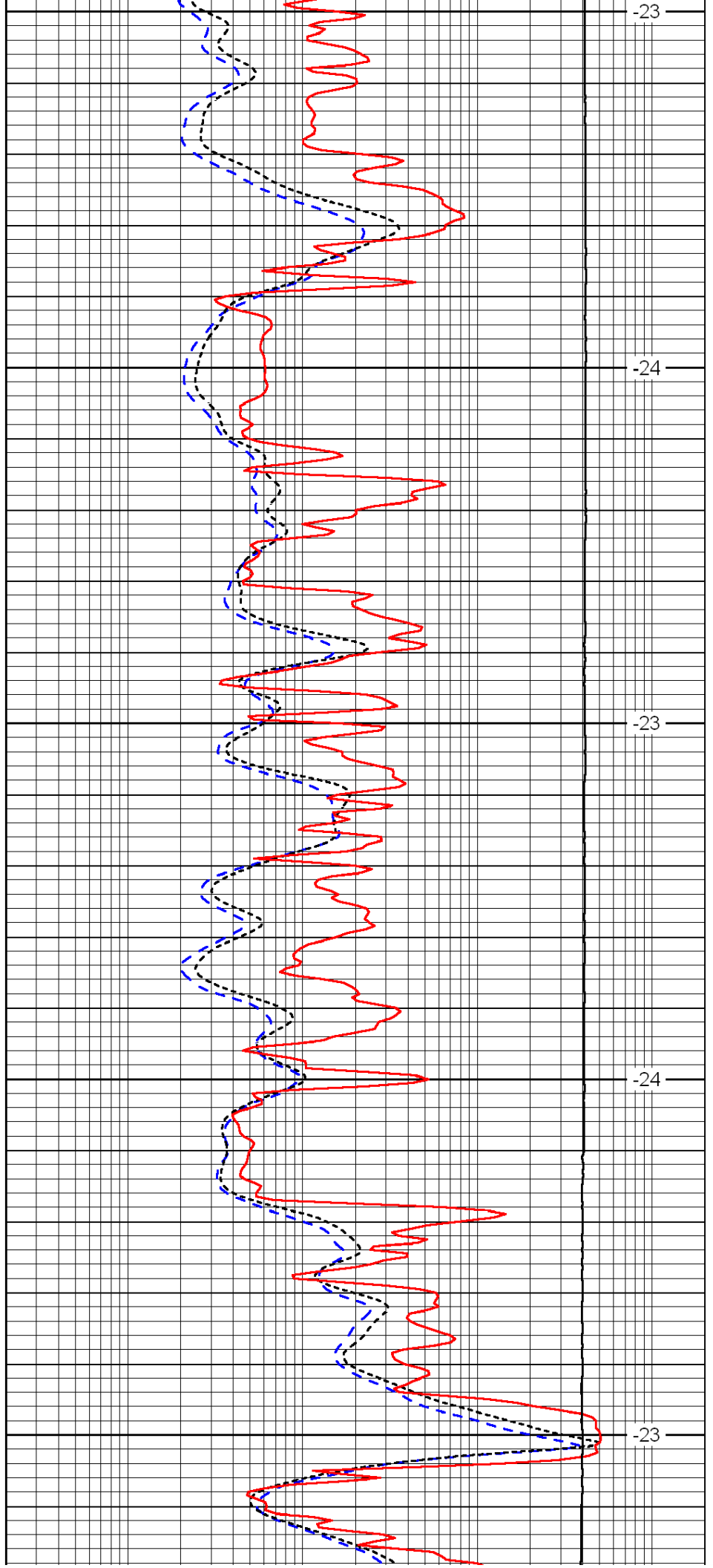
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3500

3550

3600

3650



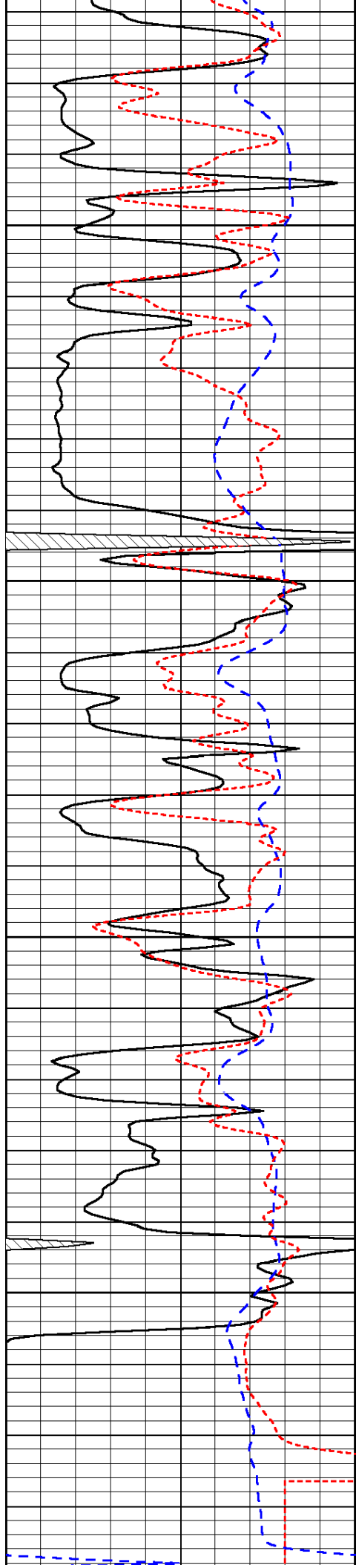
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-24

-23

-24

-23

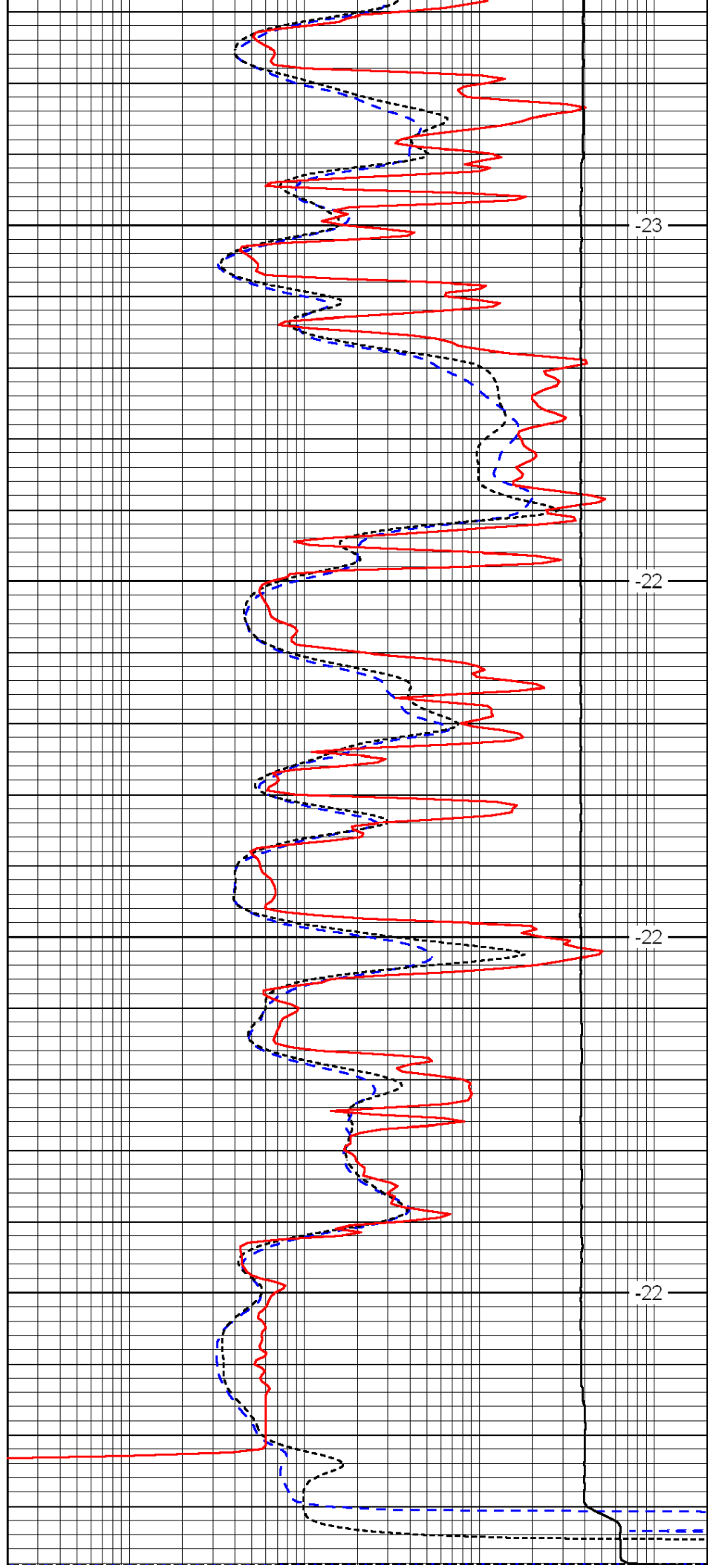


3700

3750

3800

3850



-23

-22

-22

-22

0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD



Dual Compensated
Porosity Log

DIGITAL LOG (785) 625-3858

API No. 15-065-23,736-00-00

Company Flatirons Resources, LLC.
Well Lyon No. 42-2
Field Wildcat
County Graham State Kansas

Location SW SE SE NE
2500' FNL & 400' FEL

Sec: 2 Twp: 8 S Rge: 24 W

Other Services
DIL
MEI/BHCS

Permanent Datum Ground Level Elevation 2370
Log Measured From Kelly Bushing 7 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

K.B. 2377
D.F. G.L. 2370

Date 5/17/2011

Run Number One

Type Log CNL / CDL

Depth Driller 3880

Depth Logger 3880

Bottom Logged Interval 3859

Top Logged Interval 3250

Type Fluid In Hole Chemical

Salinity, PPM CL 1200

Density 9.3

Level Full

Max. Rec. Temp. F 115

Operating Rig Time 5 Hours

Equipment -- Location 4 Hays

Recorded By D Kerr

Witnessed By Roger Moses

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	214	8.625	24#	00	214
2	7.875	214	3880				

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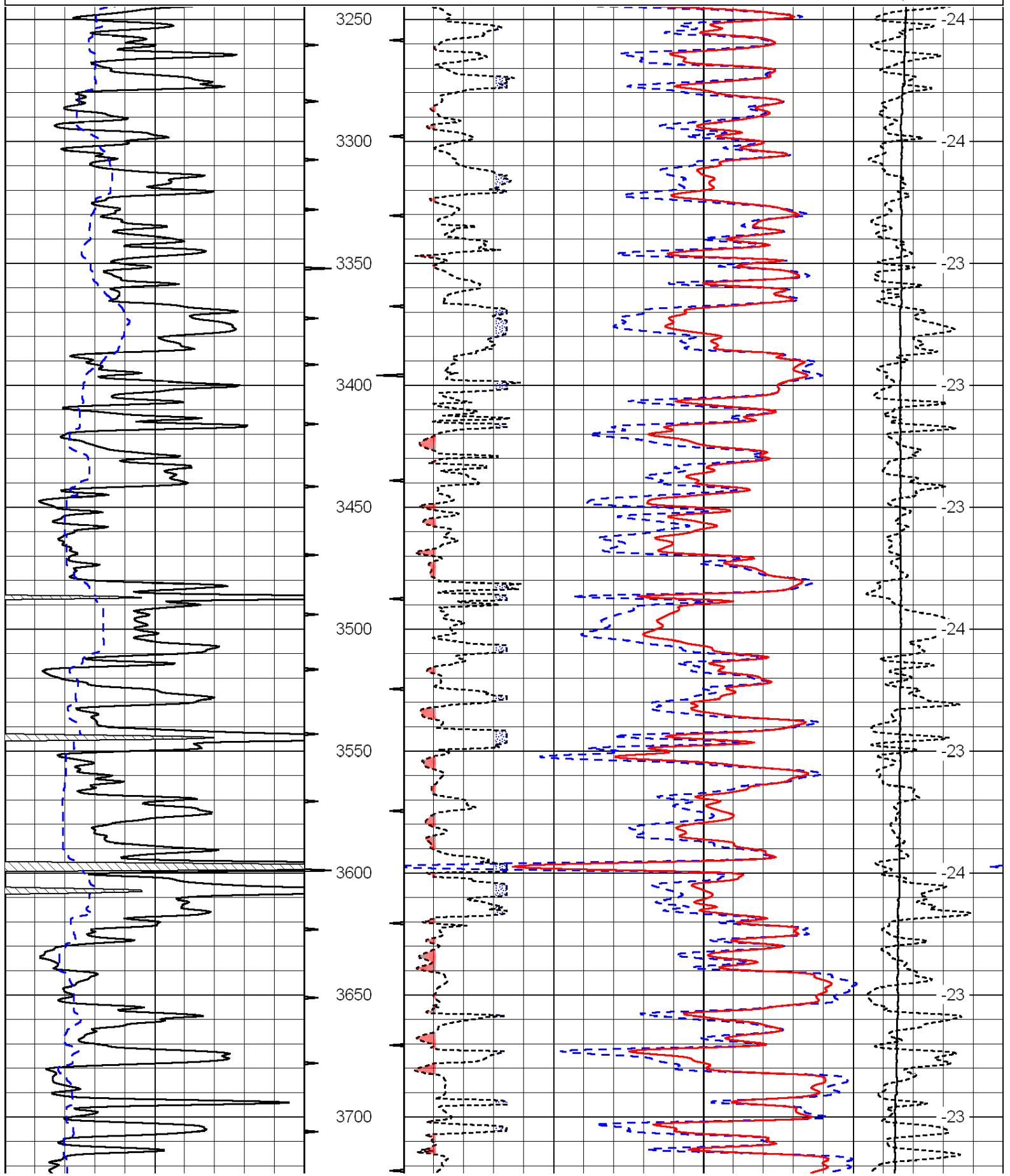
Comments

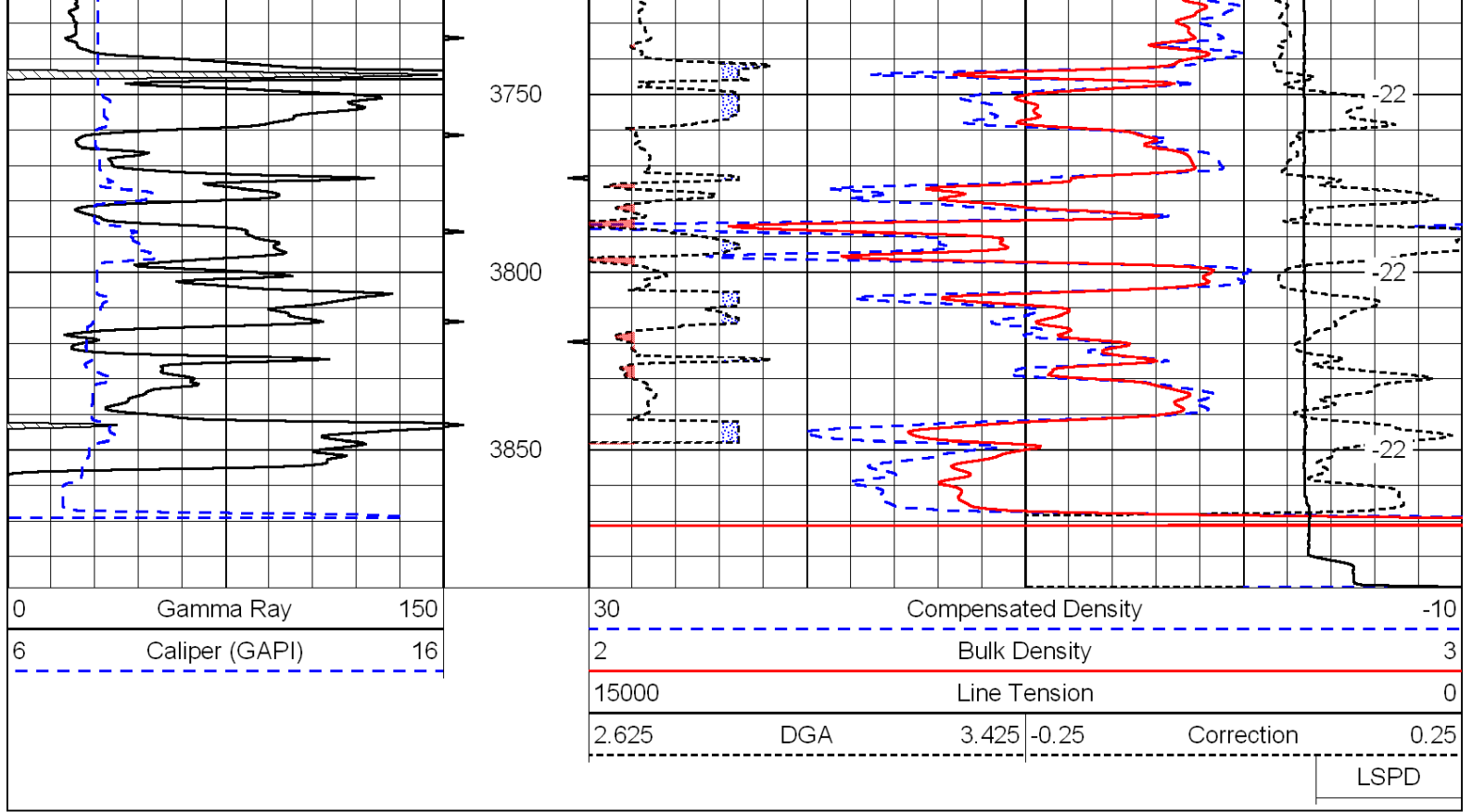
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(785) 625-3858

Hill City KS, 6 West to 200 Rd,
2 North to S Rd, 3/4 East, South Into

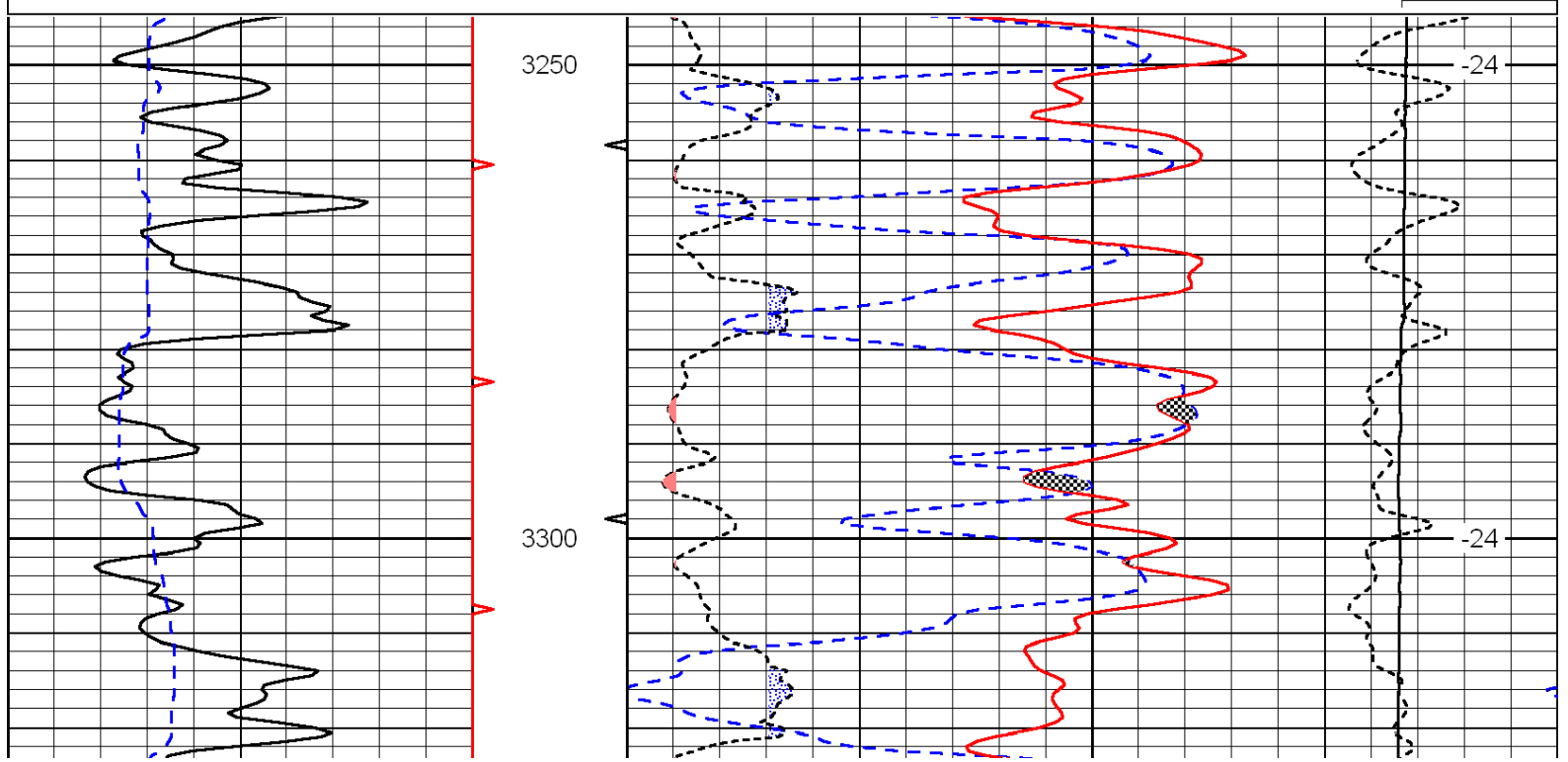
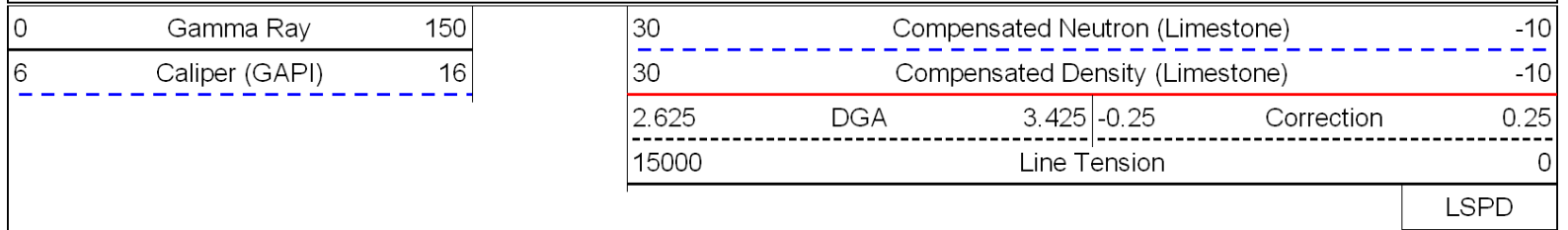
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6	Caliper (GAPI)	16

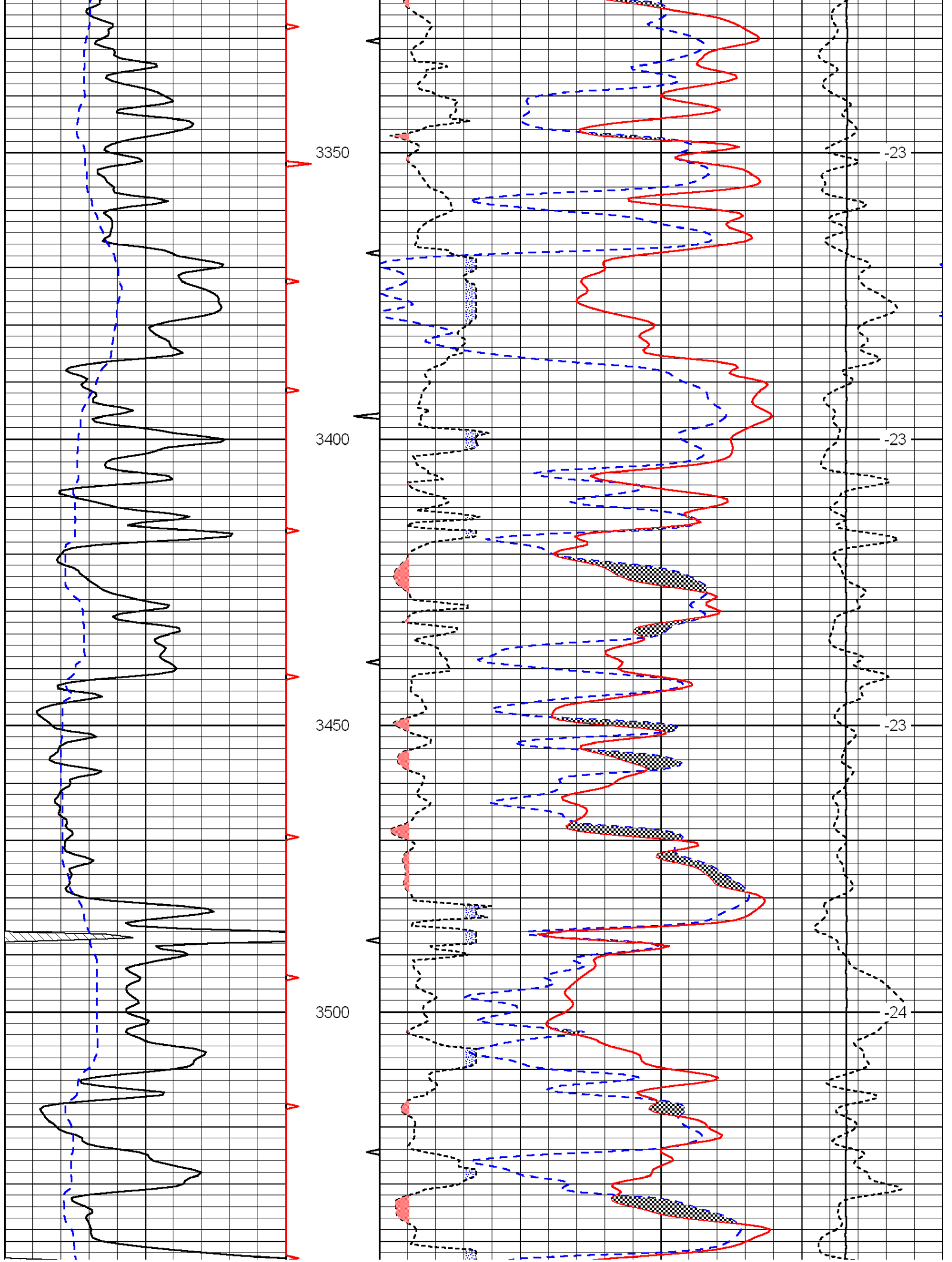
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
Correction			0.25
LSPD			

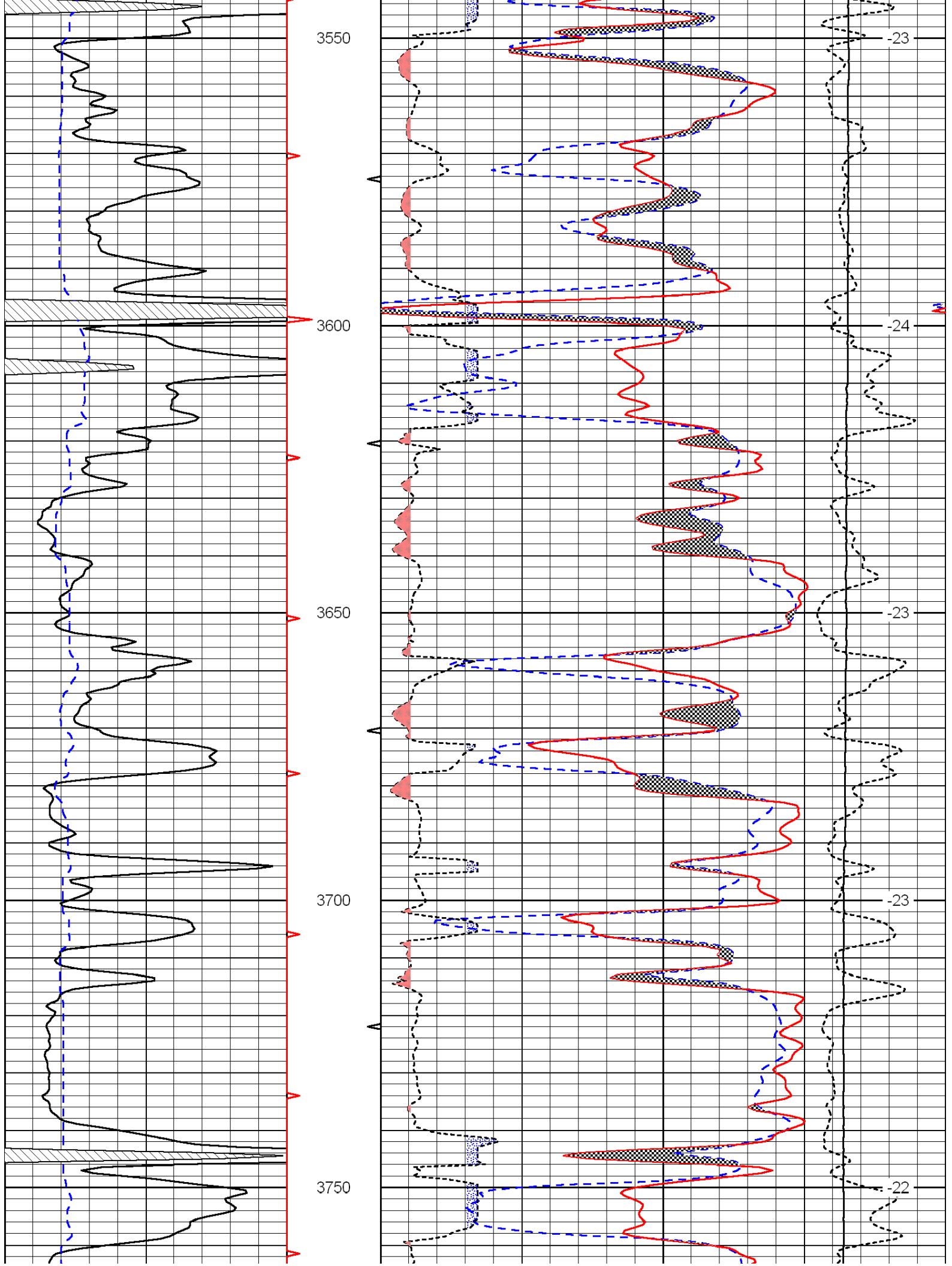


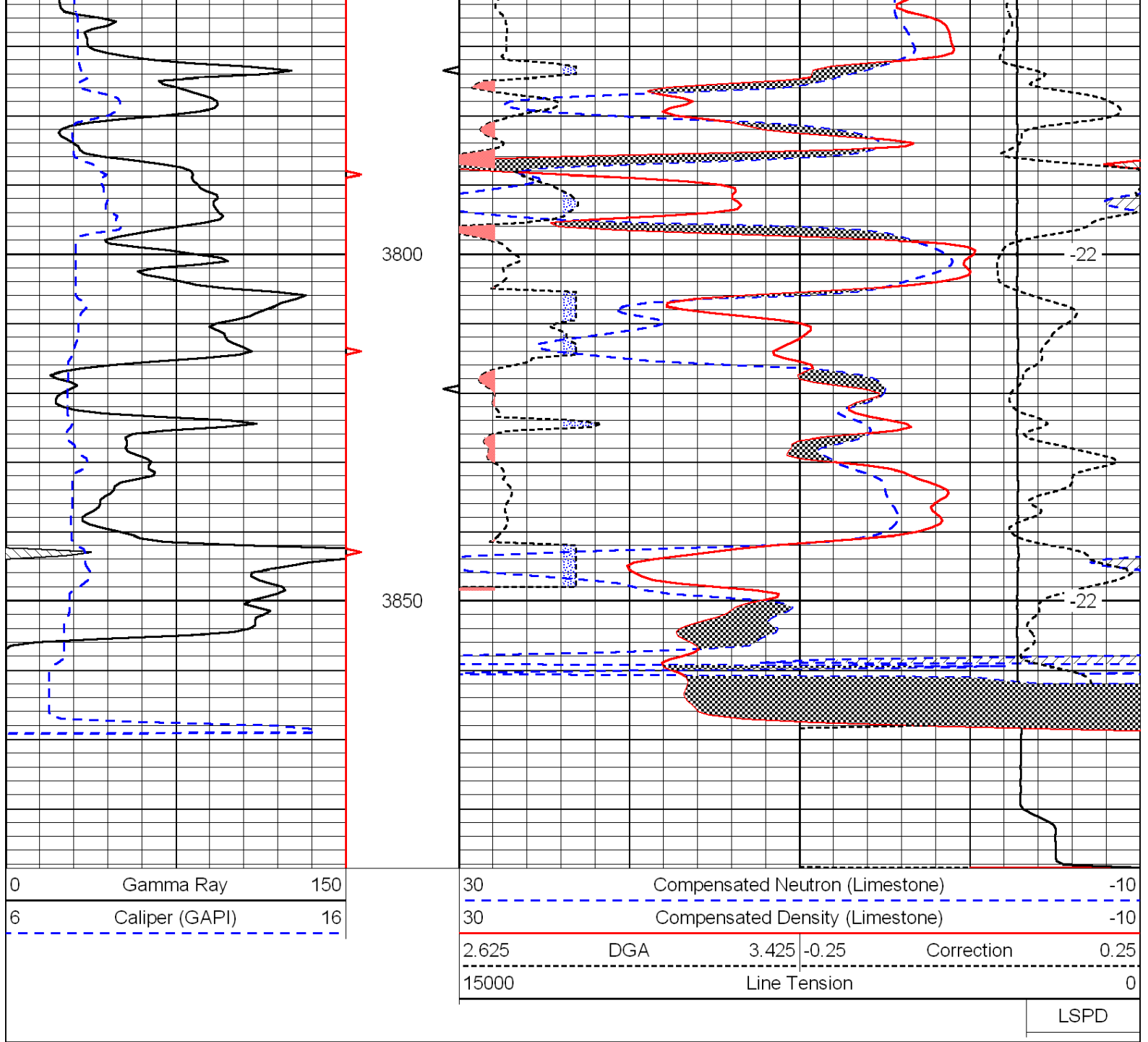


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 Dataset Pathname: DIL/flatstack
 Presentation Format: cndspec
 Dataset Creation: Wed May 18 03:12:21 2011
 Charted by: Depth in Feet scaled 1:240











Microresistivity Log

DIGITAL LOG (785) 625-3858

API No.	15-065-23,736-00-00		
Company	Flatirons Resources, LLC.		
Well	Lyon No. 42-2		
Field	Wildcat		
County	Graham	State	Kansas
Location	SW SE SE NE 2500' FNL & 400' FEL		
Sec: 2	Twp: 8 S	Rge: 24 W	Other Services CNL/CDL DIL/BHCS
Permanent Datum	Ground Level	Elevation 2370	Elevation
Log Measured From	Kelly Bushing	7 Ft. Above Perm. Datum	K.B. 2377
Drilling Measured From	Kelly Bushing		D.F. G.L. 2370

Date	5/17/2011		
Run Number	Two		
Depth Driller	3880		
Depth Logger	3880		
Bottom Logged Interval	3879		
Top Log Interval	3250		
Casing Driller	8.625 @ 214		
Casing Logger	220		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	1200		
Density / Viscosity	9.3	56	
pH / Fluid Loss	10.5	6.4	
Source of Sample	Flowline		
Rm @ Meas. Temp	.95	@ 64	
Rmf @ Meas. Temp	.71	@ 64	
Rmc @ Meas. Temp	1.28	@ 64	
Source of Rmf / Rmc	Charts		
Rm @ BHT	.53	@ 115	
Operating Rig Time	5 Hours		
Max Rec. Temp. F	115		
Equipment Number	4		
Location	Hays		
Recorded By	D. Kerr		
Witnessed By	Roger Moses		
K.B.	2377		
D.F.	G.L. 2370		

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Comments

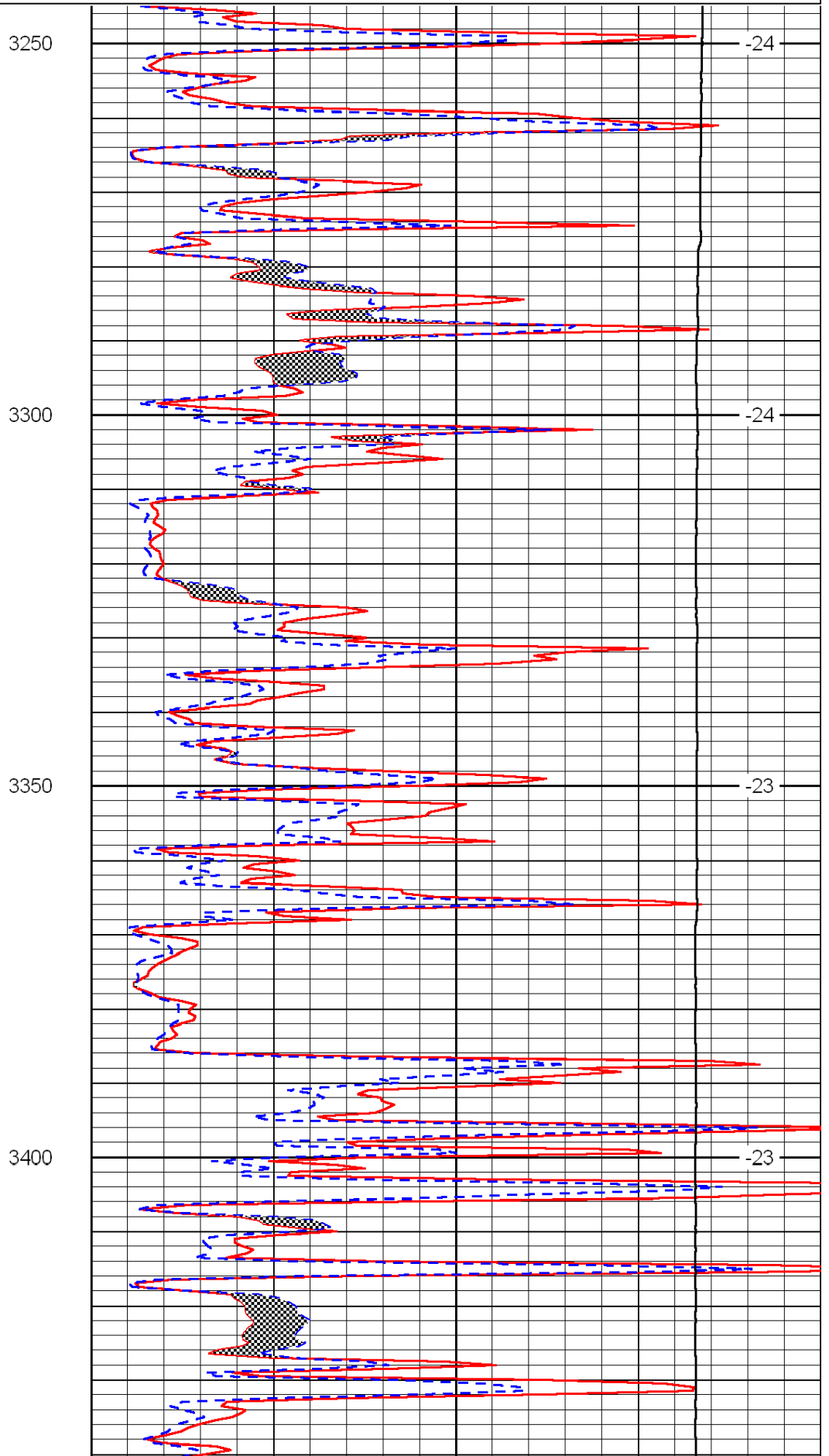
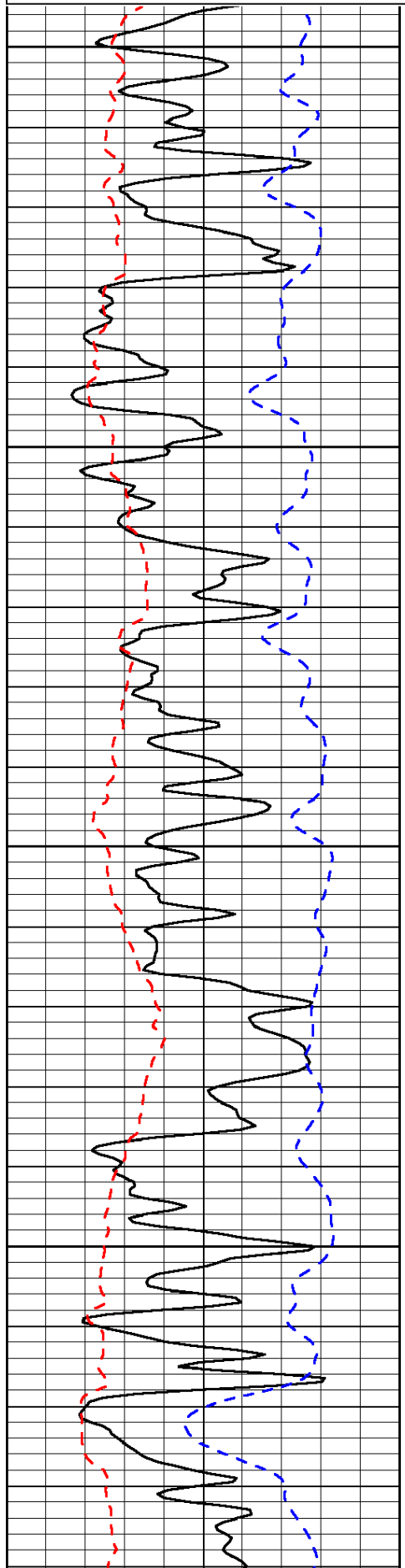
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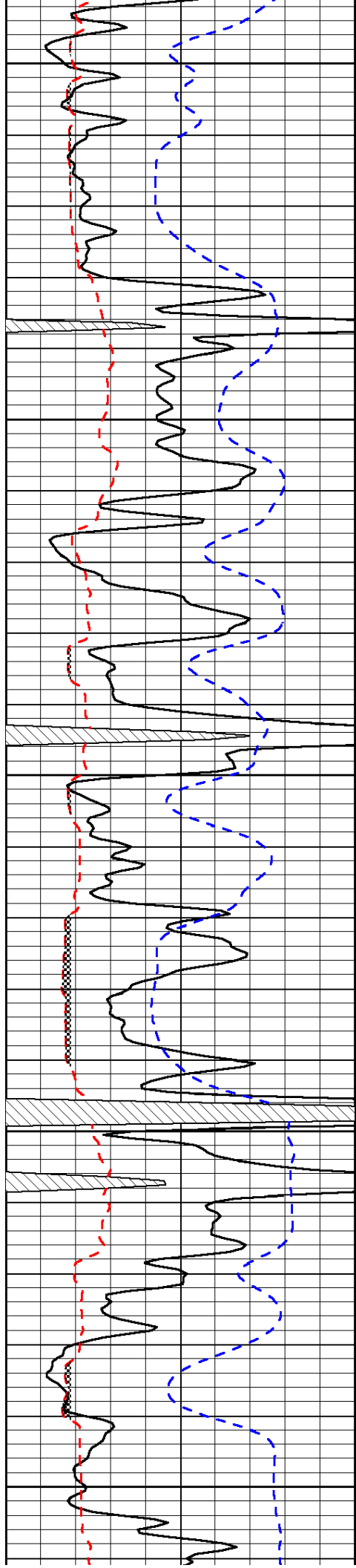
Hill City KS, 6 West to 200 Rd,
2 North to S Rd, 3/4 East, South Into

0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0

0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
15000	Line Weight	0

LSPD





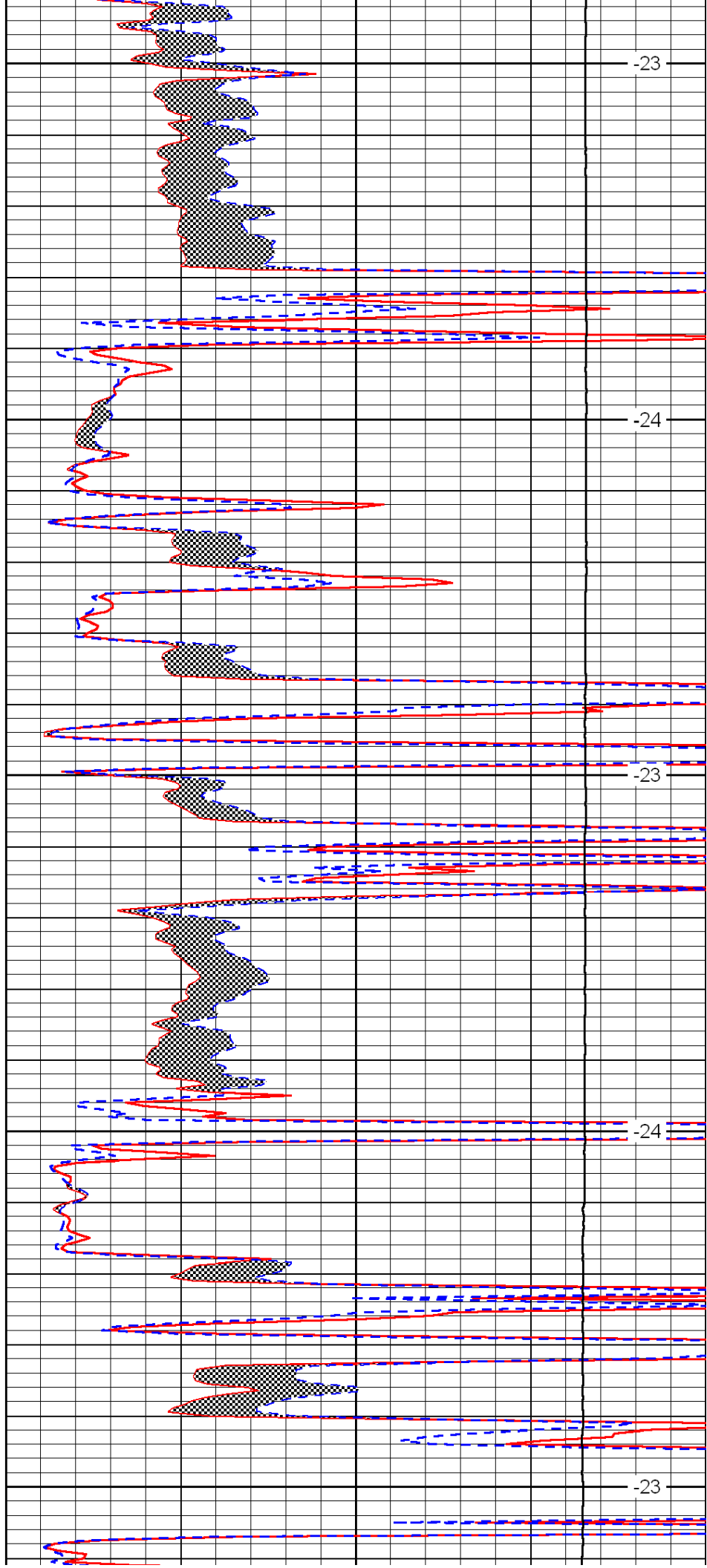
3450

3500

3550

3600

3650



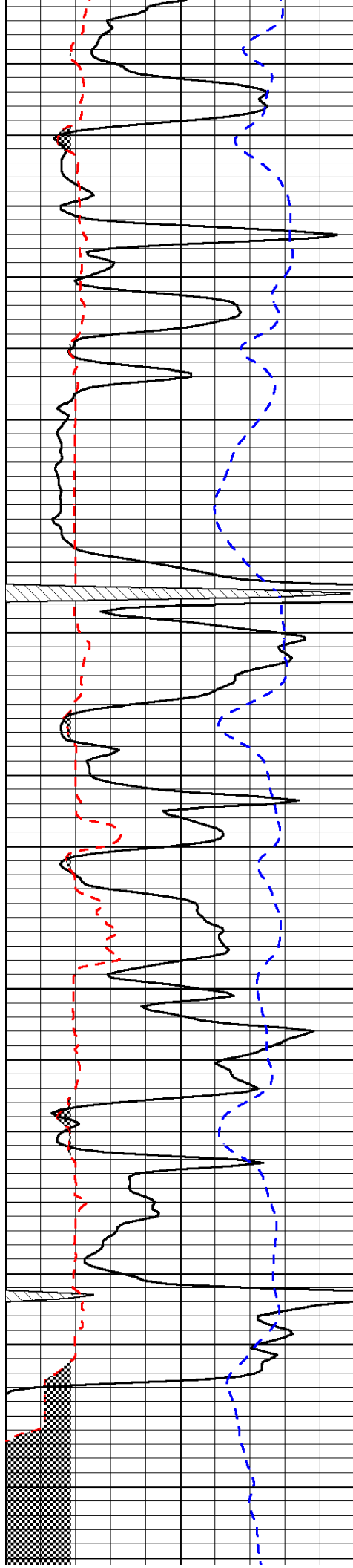
-23

-24

-23

-24

-23

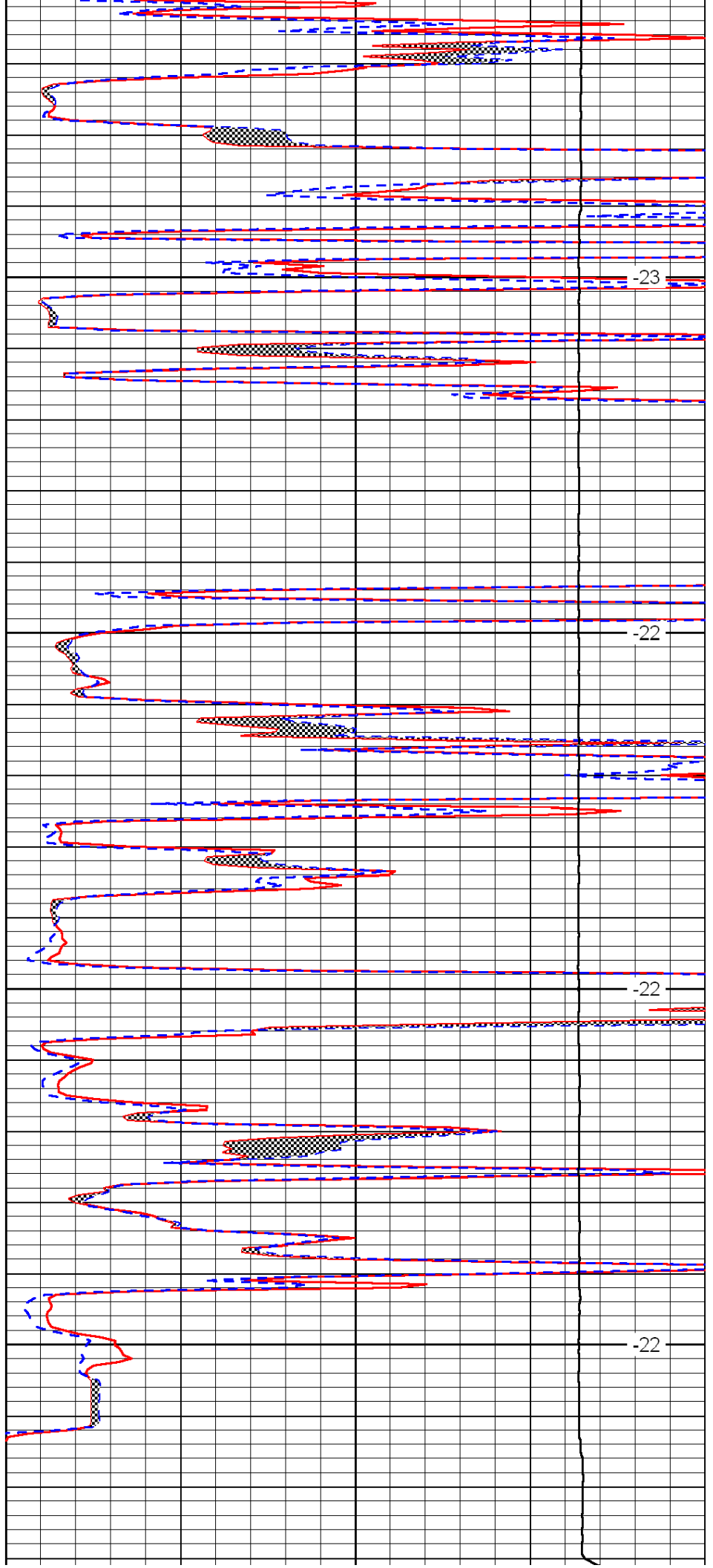


3700

3750

3800

3850

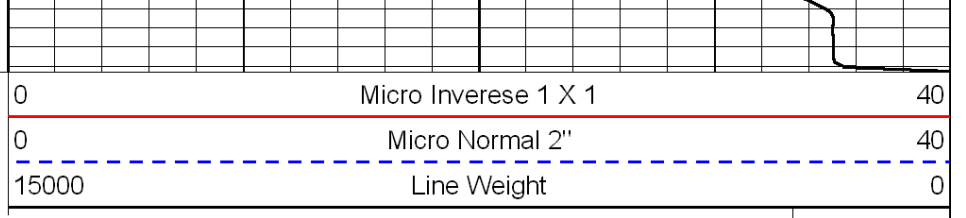
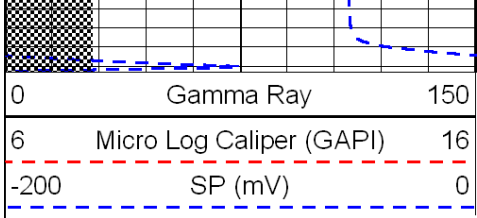


-23

-22

-22

-22



LSPD



**Borehole Compensated
Sonic Log**

DIGITAL LOG (785) 625-3858

API No.	15-065-23,736-00-00		
Company	Flatirons Resources, LLC.		
Well	Lyon No. 42-2		
Field	Wildcat		
County	Graham	State	Kansas
Location	SW SE SE NE 2500' FNL & 400' FEL		
Sec: 2	Twp: 8 S	Rge: 24 W	Other Services CNL/CDL MEL/DIL
Permanent Datum	Ground Level	Elevation 2370	Elevation
Log Measured From	Kelly Bushing	7 Ft. Above Perm. Datum	K.B. 2377
Drilling Measured From	Kelly Bushing		D.F. G.L. 2370

Date	5/17/2011
Run Number	Two
Type Log	BHC Sonic
Depth Driller	3880
Depth Logger	3880
Bottom Logged Interval	3869
Top Logged Interval	200
Type Fluid In Hole	Chemical
Salinity, PPM CL	1200
Density	9.3
Level	Full
Max. Rec. Temp. F	115
Operating Rig Time	5 Hours
Equipment -- Location	4 Days
Recorded By	D Kerr
Witnessed By	Roger Moses

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	214	8.625	24#	00	214
2	7.875	214	3880				

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

Comments

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

Hill City KS, 6 West to 200 Rd,
2 North to S Rd, 3/4 East, South Into

Database File: c:\warrior\data\flatirons_lyon no. 42-2\flatirons051711hd.db
 Dataset Pathname: DIL/flatstack
 Presentation Format: sonic
 Dataset Creation: Wed May 18 03:12:21 2011
 Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5	0	SPOR	-10
6	Caliper (GAPI)	16		15000	LTEN (lb)	0

LSPD

