



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1082042
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

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

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1082042

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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DRILL STEM TEST REPORT

Prepared For: **TDI Inc.**

1310 Bison Rd
Hays KS 67601

ATTN: Herb Deines

Wiesner Unit #1

5-13s-20w Ellis,KS

Start Date: 2012.04.01 @ 17:05:39

End Date: 2012.04.02 @ 00:01:39

Job Ticket #: 47701 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.04.04 @ 11:12:52

TDI Inc. 5-13s-20w Ellis,KS Wiesner Unit #1 DST # 1 Arbuckle 2012.04.01



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TDI Inc.
1310 Bison Rd
Hays KS 67601
ATTN: Herb Deines

5-13s-20w Ellis, KS
Wiesner Unit #1
Job Ticket: 47701 **DST#: 1**
Test Start: 2012.04.01 @ 17:05:39

GENERAL INFORMATION:

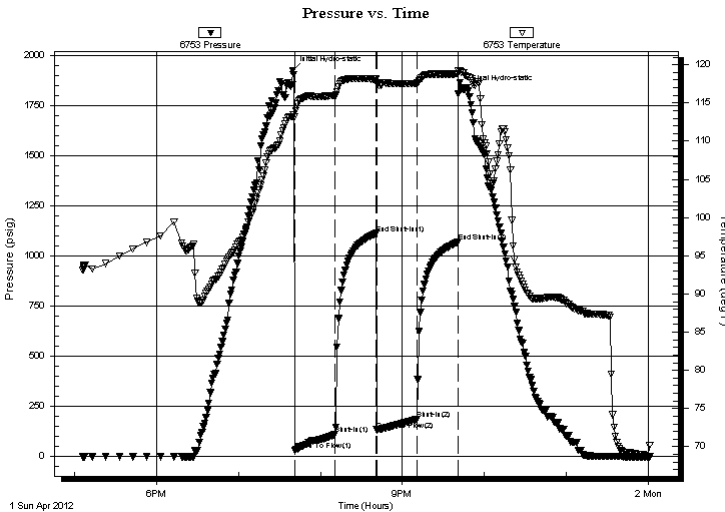
Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:41:09
Time Test Ended: 00:01:39
Interval: **3780.00 ft (KB) To 3844.00 ft (KB) (TVD)**
Total Depth: 3950.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Straddle (Initial)
Tester: Brett Dickinson
Unit No: 59
Reference Elevations: 2165.00 ft (KB)
2156.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6753 Outside

Press @ Run Depth: 186.10 psig @ 3840.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.04.01 End Date: 2012.04.02 Last Calib.: 2012.04.02
Start Time: 17:05:44 End Time: 00:01:38 Time On Btm: 2012.04.01 @ 19:39:39
Time Off Btm: 2012.04.01 @ 21:46:09

TEST COMMENT: IF-BOB in 9.5 min
ISI-3/4" blow died back to weak surface blow
FF-BOB in 10 min
FSI-1 1/4" blow died back to 1" blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1927.88	113.21	Initial Hydro-static
2	29.77	113.17	Open To Flow (1)
31	110.14	115.98	Shut-In(1)
61	1114.19	118.10	End Shut-In(1)
62	132.51	117.65	Open To Flow (2)
91	186.10	117.57	Shut-In(2)
121	1070.85	118.81	End Shut-In(2)
127	1832.02	118.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	GSMCO 25%G 10%M 65%O	1.05
185.00	GMCO 20%G 10%M 70%O	2.60
185.00	SGO 10%G 90%O	2.60
0.00	120ft GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI Inc.
1310 Bison Rd
Hays KS 67601
ATTN: Herb Deines

5-13s-20w Ellis,KS
Wiesner Unit #1
Job Ticket: 47701 **DST#: 1**
Test Start: 2012.04.01 @ 17:05:39

Tool Information

Drill Pipe:	Length: 3775.00 ft	Diameter: 3.80 inches	Volume: 52.95 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 52.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3780.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	3844.00 ft			
Interval between Packers:	64.00 ft			
Tool Length:	193.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3761.00	
Shut In Tool	5.00			3766.00	
Hydraulic tool	5.00			3771.00	
Packer	4.00			3775.00	20.00 Bottom Of Top Packer
Packer	5.00			3780.00	
Stubb	1.00			3781.00	
Perforations	4.00			3785.00	
change Over Sub	1.00			3786.00	
Blank Spacing	31.00			3817.00	
change Over Sub	1.00			3818.00	
Perforations	22.00			3840.00	
Recorder	0.00	8319	Inside	3840.00	
Recorder	0.00	6753	Outside	3840.00	
Blank Off Sub	4.00			3844.00	64.00 Tool Interval
Packer	4.00			3848.00	
Stubb	1.00			3849.00	
Recorder	0.00	8369	Below	3849.00	
perforations	5.00			3854.00	
Change Over Sub	1.00			3855.00	
Blank Spacing	94.00			3949.00	
Change Over Sub	1.00			3950.00	
Bullnose	3.00			3953.00	109.00 Bottom Packers & Anchor
Total Tool Length:	193.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc.
1310 Bison Rd
Hays KS 67601
ATTN: Herb Deines

5-13s-20w Ellis,KS
Wiesner Unit #1
Job Ticket: 47701 **DST#: 1**
Test Start: 2012.04.01 @ 17:05:39

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.98 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3200.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	GSMCO 25%G 10%M 65%O	1.052
185.00	GMCO 20%G 10%M 70%O	2.595
185.00	SGO 10%G 90%O	2.595
0.00	120ft GIP	0.000

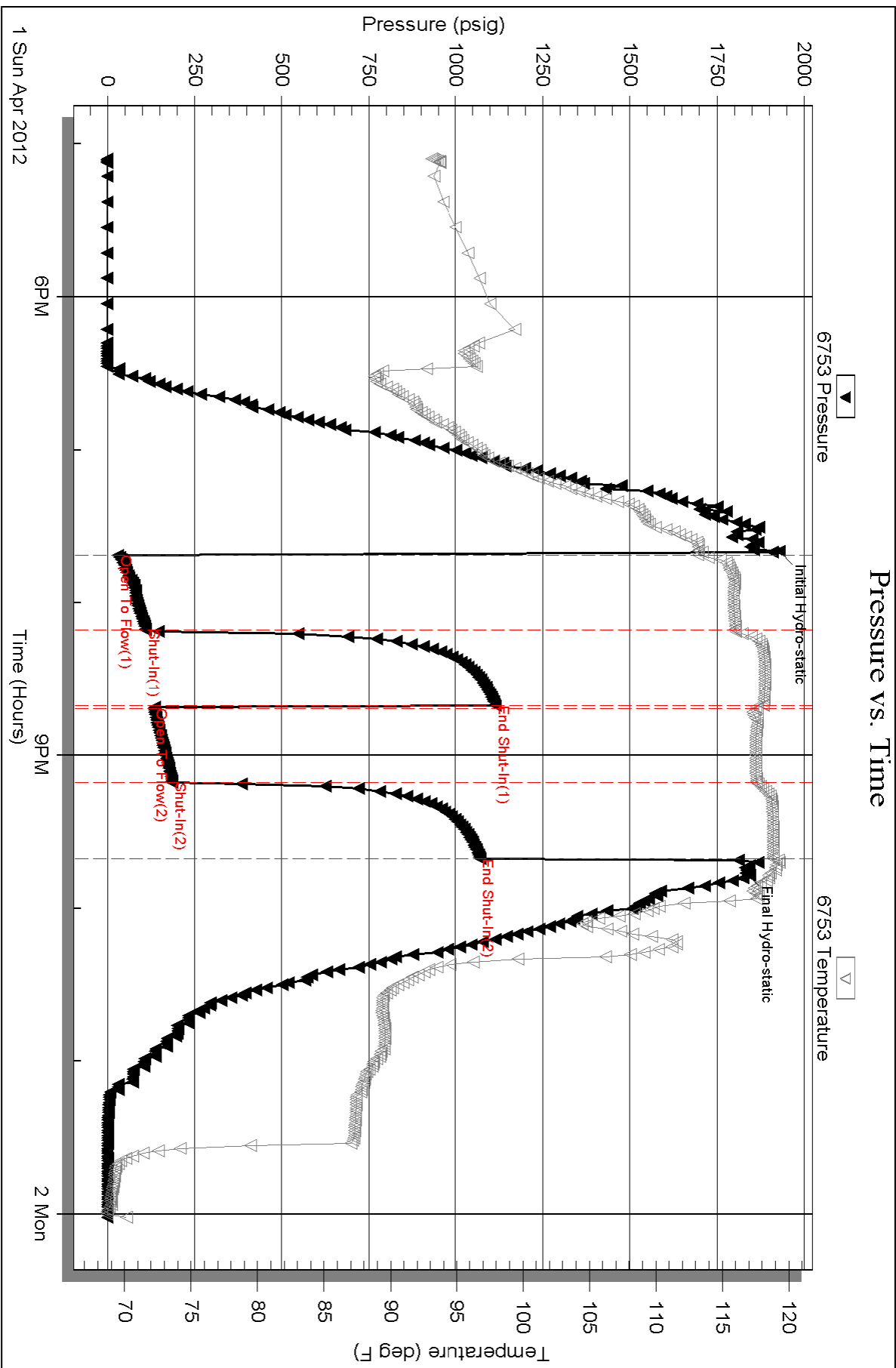
Total Length: 445.00 ft Total Volume: 6.242 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 6753

Outside TDI Inc.

Mesner Unit #1

DST Test Number: 1

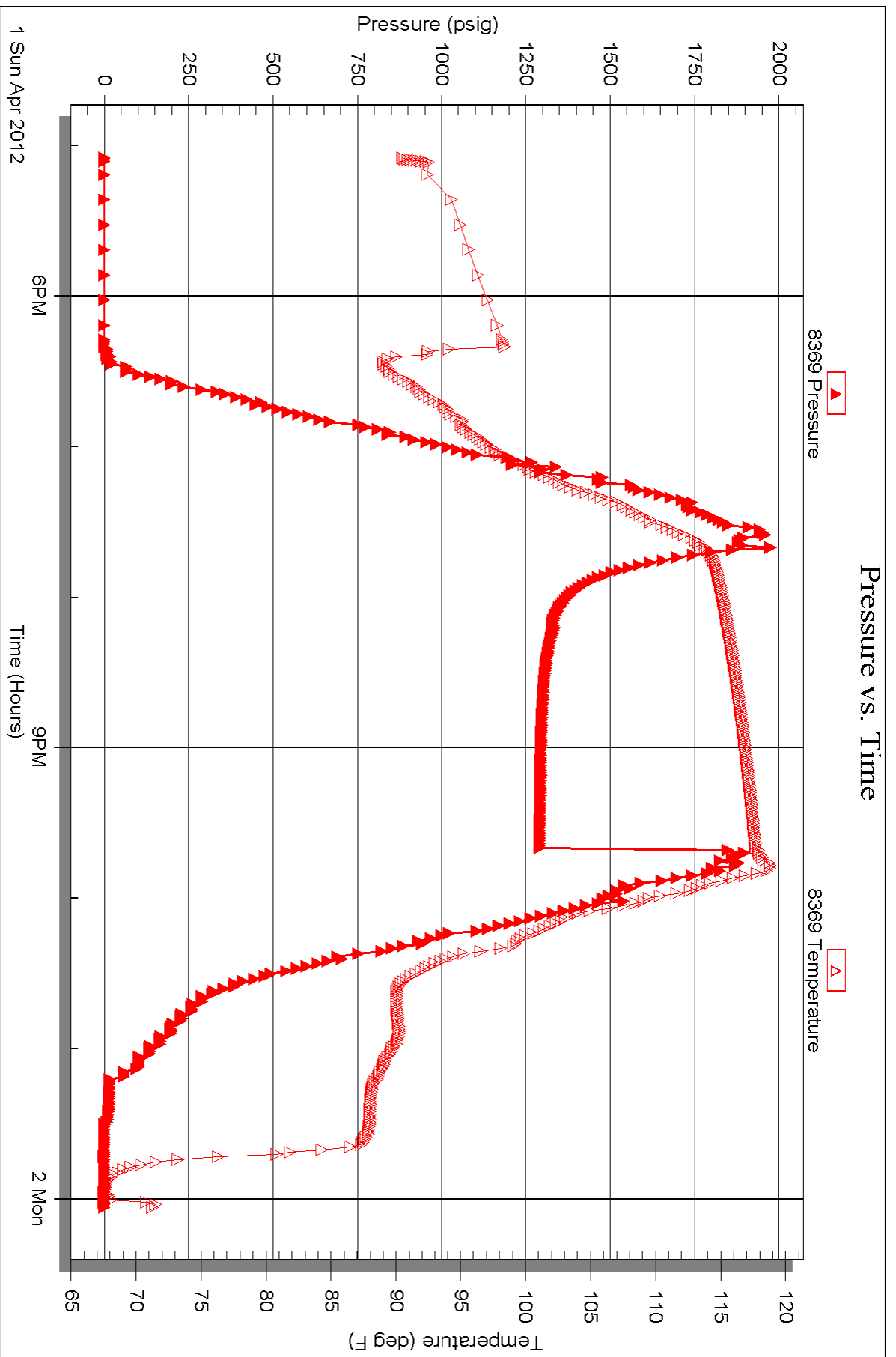


Serial #: 8369

Below (Straddling)

Mesner Unit #1

DST Test Number: 1



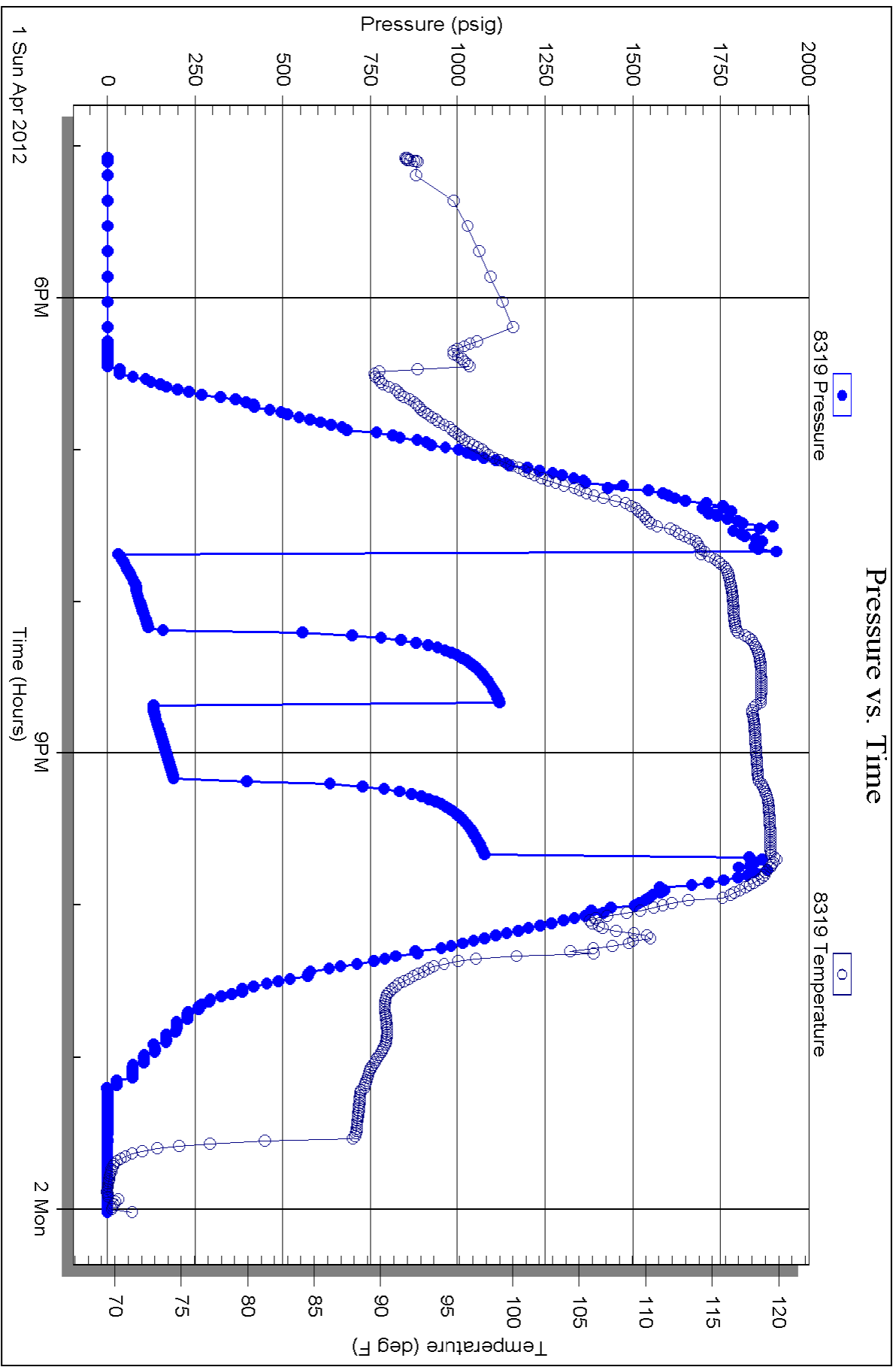
Serial #: 8319

Inside

TDI Inc.

Mesner Unit #1

DST Test Number: 1





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
APR 02 2012

Test Ticket

NO. 47701

BY: _____

Well Name & No. Wiesner Unit #1 Test No. 1 Date 4/1/12
 Company TPI Inc. Elevation 2165 KB 2156 GL
 Address 1310 Bison Rd Hays KS 67601
 Co. Rep / Geo. Herb Deines Rig Southwind #2
 Location: Sec. 5 Twp. 13s Rge. 20w Co. Ellis State KS

Interval Tested 3780-3844 Zone Tested Arb.
 Anchor Length 64 Drill Pipe Run 3775 Mud Wt. 9.4
 Top Packer Depth 3775, 3780 Drill Collars Run _____ Vis 49
 Bottom Packer Depth 3844 Wt. Pipe Run _____ WL 8.0
 Total Depth 3950 Chlorides 3,200 ppm System LCM 2
 Blow Description JF-BOB in 9 1/2 min
JSL-3/4 in blow died back to weak surface
FF-BOB in 10 min
FSL-1 1/4 in blow died back to lin blow

Rec	Feet of	%gas	%oil	%water	%muc
<u>75</u>	<u>GSNCO</u>	<u>25</u>	<u>65</u>	<u>10</u>	
<u>185</u>	<u>GMCO</u>	<u>20</u>	<u>70</u>	<u>10</u>	
<u>185</u>	<u>SGO</u>	<u>10</u>	<u>90</u>		
<u> </u>	<u>120ft GSP</u>				
<u> </u>	<u> </u>				

Rec Total 445 BHT _____ Gravity 34 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1928 Test 1125 T-On Location 16:20
 (B) First Initial Flow 30 Jars _____ T-Started 17:05
 (C) First Final Flow 110 Safety Joint _____ T-Open 19:35
 (D) Initial Shut-In 1114 Circ Sub _____ T-Pulled 21:35
 (E) Second Initial Flow 133 Hourly Standby _____ T-Out 00:00
 (F) Second Final Flow 186 Mileage 18x2 30RT 50.40 Comments _____
 (G) Final Shut-In 1,071 Sampler _____
 (H) Final Hydrostatic 4,832 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1775.40
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1775.40

Approved By _____ Our Representative Brian D.

TriLOBite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

OPERATOR

Company: TDI, INC.
Address: 1310 BISON ROAD
HAYS, KS 67601

Contact Geologist: TOM DENNING
Contact Phone Nbr: 785-259-3141
Well Name: WIESNER UNIT #1
Location: NE NE SW
Pool: WILDCAT
State: Kansas

API: 15-051-26,270-00-00
Field: UNNAMED
Country: USA



1310 BISON ROAD
HAYS, KANSAS 67601
(785) 628-2593

Scale 1:240 Imperial

Well Name:	WIESNER UNIT #1	
Surface Location:	NE NE SW	
Bottom Location:		
API:	15-051-26,270-00-00	
License Number:	4787	
Spud Date:	3/26/2012	Time: 11:00 AM
Region:	ELLIS COUNTY	
Drilling Completed:	4/1/2012	Time: 7:49 AM
Surface Coordinates:	2310' FSL & 2310' FWL	
Bottom Hole Coordinates:		
Ground Elevation:	2153.00ft	
K.B. Elevation:	2162.00ft	
Logged Interval:	3100.00ft	To: 3950.00ft
Total Depth:	3950.00ft	
Formation:	ARBUCKLE	
Drilling Fluid Type:	CHEMICAL/FRESH WATER GEL	

SURFACE CO-ORDINATES

Well Type:	Vertical	
Longitude:		Latitude:
N/S Co-ord:	2310' FSL	
E/W Co-ord:	2310' FWL	

LOGGED BY



Company: SOLUTIONS CONSULTING
Address: 108 W 35TH
HAYS, KS 67601

Phone Nbr: (785) 639-1337

CONTRACTOR

Contractor: SOUTHWIND DRILLING, INC.
 Rig #: 2
 Rig Type: MUD ROTARY
 Spud Date: 3/26/2012
 TD Date: 4/1/2012
 Rig Release: 4/2/2012

Time: 11:00 AM
 Time: 7:49 AM
 Time: 12:00 AM

ELEVATIONS

K.B. Elevation: 2162.00ft
 K.B. to Ground: 9.00ft
 Ground Elevation: 2153.00ft

NOTES


RECOMMENDATION TO RUN PRODUCTION CASING BASED ON FAVORABLE STRUCTURE AND POSITIVE RESULTS OF DST # 1

WIESNER UNIT #1
 NE NE SW
 Sec.5-13s-20w
 2162' KB

<u>Formations</u>	<u>Sample top</u>	<u>Log top</u>
Anhydrite	1497+ 665	1506+ 656
B-Anhydrite	1545+ 617	1544+ 618
Topeka	3186-1024	3185-1023
Heebner Shale	3416-1254	3414-1252
Toronto	3440-1278	3437-1275
LKC	3456-1294	3454-1292
BKC	3706-1544	3700-1538
Marmaton	3754-1592	3751-1589
Arbuckle	3815-1653	3824-1662
RTD	3950-1788	
LTD		3949-1787

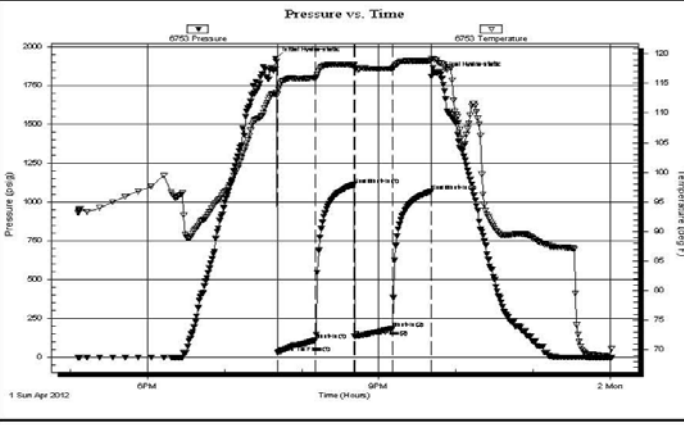
- 3-26-12 RU, Spud, set surface casing to 200.97' w/150 sxs. Common, 2%gel, 3%CC, Slope survey 1 degree, WOC 8 hrs. Plug down 11:00PM.
- 3-27-12 200' drilling plug
- 3-28-12 1682' drilling
- 3-29-12 2407' drilling
- 3-30-12 3089' drilling
- 3-31-12 3545' drilling
- 4-01-12 3937' drilling, RTD 3950', short trip, logs, DST#1 straddle test-Arbuckle
- 4-02-12 3950' run production casing, cement casing.

DST #1 SUMMARY

	DRILL STEM TEST REPORT	
	TDI Inc. 1310 Bison Rd Hays KS 67601 ATTN: Herb Deines	5-13-20, Ellis, KS Wiesner Unit #1 Job Ticket: 47701 Test Start: 2012.04.01 @ 17:05:39
GENERAL INFORMATION:		
Formation: Arb. Deviated: No Whipstock: ft (KB) Time Tool Opened: 19:41:09 Time Test Ended: 00:01:39	Test Type: Conventional Straddle (Initial) Tester: Brett Dickinson Unit No: 59	Reference Elevations: 2165.00 ft (KB) 2156.00 ft (CF) KB to GR/CF: 9.00 ft
Interval: 3780.00 ft (KB) To 3844.00 ft (KB) (TVD) Total Depth: 3950.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair		
Serial #: 6753 Press@RunDepth: 186.10 psig @ 3840.00 ft (KB)	Outside Capacity: 8000.00 psig	

Start Date: 2012.04.01 End Date: 2012.04.02 Last Calib.: 2012.04.02
 Start Time: 17:05:44 End Time: 00:01:38 Time On Btm: 2012.04.01 @ 19:39:39
 Time Off Btm: 2012.04.01 @ 21:46:09

TEST COMMENT: IF-BOB in 9.5min
 ISL- .75in blow died back to weak surface blow
 FF-BOB in 10min
 FSI-1.25in blow died back to 1in blow



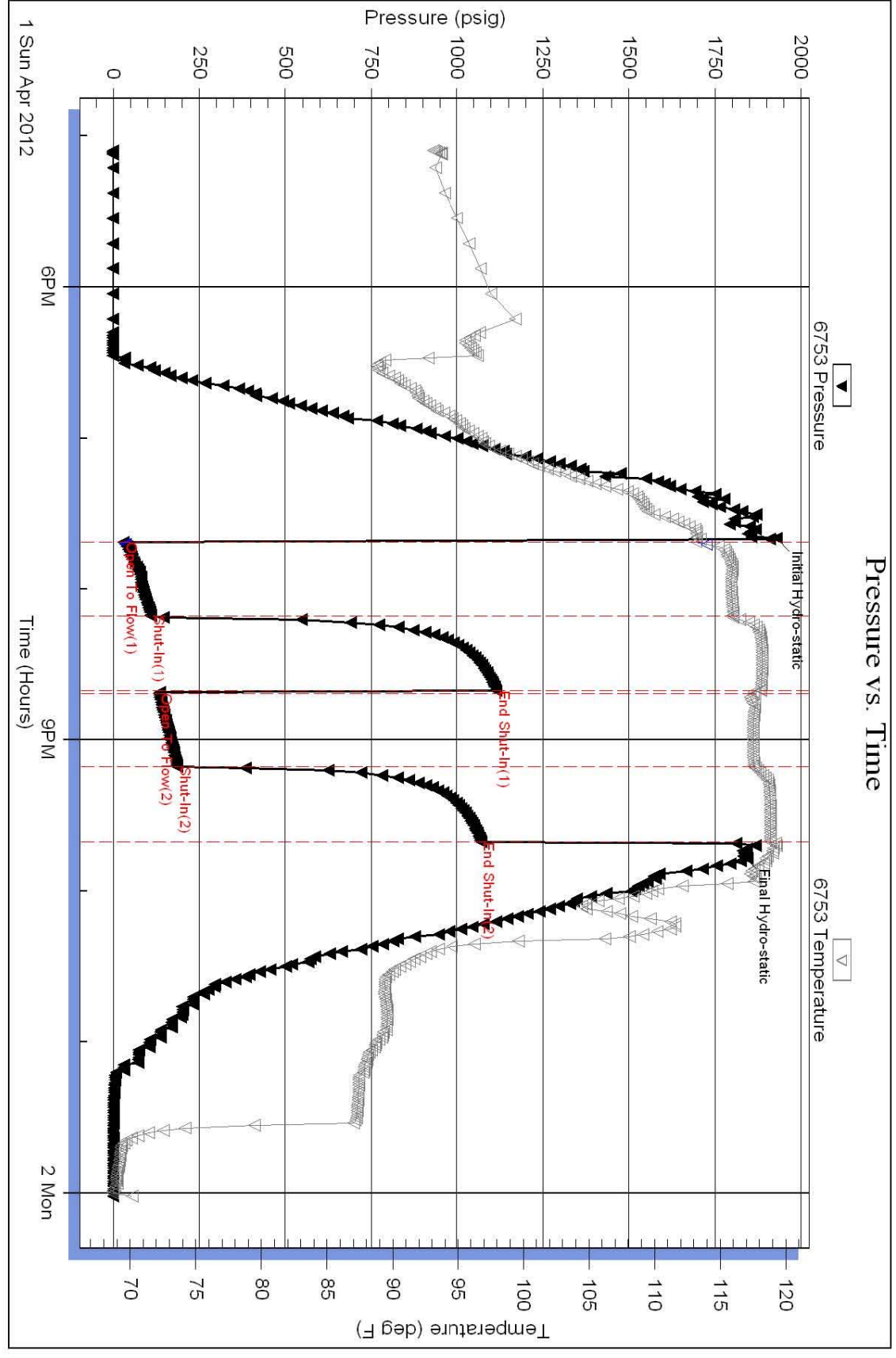
PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1927.88	113.21	Initial Hydro-static
2	29.77	113.17	Open To Flow (1)
31	110.14	115.98	Shut-In(1)
61	1114.19	118.10	End Shut-In(1)
62	132.51	117.65	Open To Flow (2)
91	186.10	117.57	Shut-In(2)
121	1070.85	118.81	End Shut-In(2)
127	1832.02	118.63	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
75.00	GSMCO 25%G 10%M 65%O	1.05
185.00	GMCO 20%G 10%M 70%O	2.60
185.00	SGO 10%G 90%O	2.60
0.00	120ft GIP	0.00

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

Trilobite Testing, Inc Ref. No: 47701 Printed: 2012.04.02 @ 08:34:55

DST #1 EXPANDED CHART



Trilobite Testing, Inc

Ref. No: 47701

Printed: 2012.04.02 @ 08:34:57

Serial #: 6753 Outside TDI Inc. Mesner Unit #1 DST Test Number: 1

ROCK TYPES

	Congl		Lmst fw<7		shale, gry		Lscong
	Chtcong		Lmst fw>7		Carbon Sh		
	Dolprim		shale, grn		shale, red		

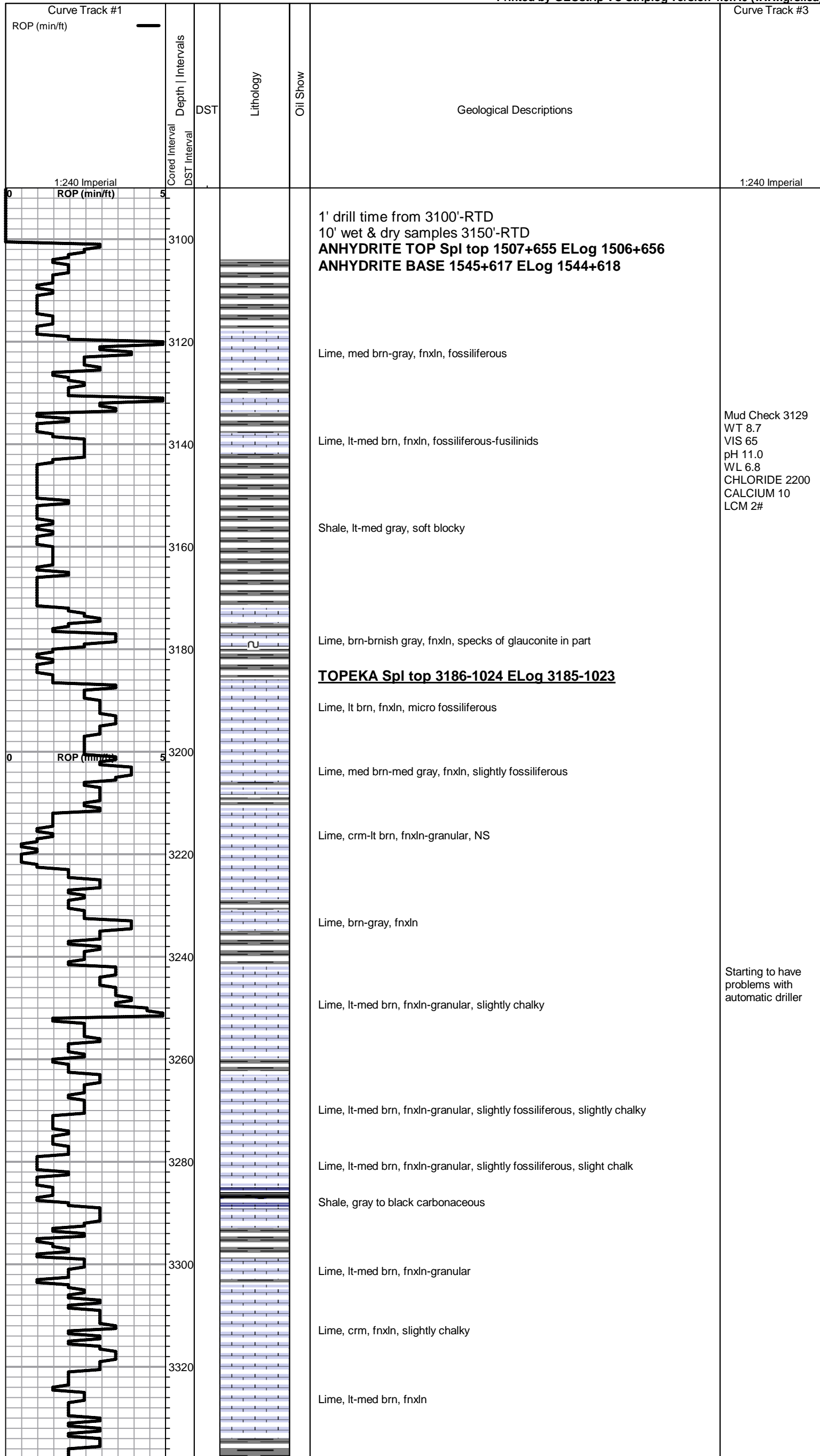
ACCESSORIES

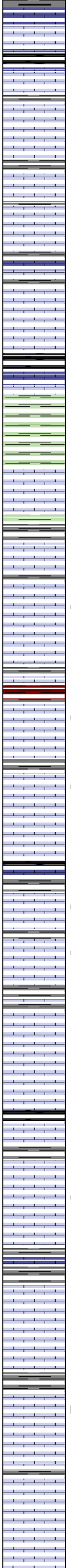
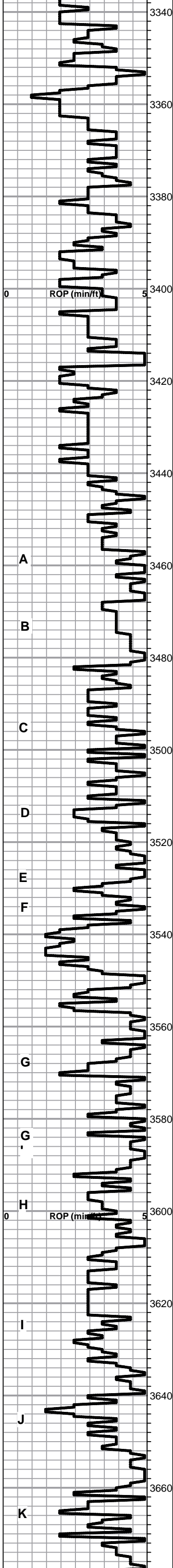
- MINERAL**
 ∩ Glauconite
 ∴ Varicolored chert
 △ Chert White

OTHER SYMBOLS

- DST**
 DST Int
 DST alt

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)





Lime, gray-grayish brn,fnxn

Shale, gray-black carbonaceous

Lime, lt brn-lt gray, fnxn-granular w/chalk, slightly fossiliferous

Lime, lt-med brn, fn-vfxn, slightly chalky

Lime, med brn, fn-vfxn

Lime, brn-gray, fnxn-granular in part

Lime, lt-med brn, fnxn-granular, slightly fossiliferous

Lime, lt-med brn, fnxn-granular, slightly fossiliferous

HEEBNER SHALE Spl top 3416-1254 ELog 3414-1252

Shale, black carbonaceous

Shale, lime green, soft mud balls in part

TORONTO Spl top 3440-1278 ELog 3437-1275

Lime, white-crm, fnxn, NS

LKC Spl top 3456-1294 ELog 3454-1292

Lime, crm-tan, fn-vfxn, few pcs oolitic w/fossil fragments, v lt stain NFO no odor

Lime, crm-v lt gray, fn-vfxn

Shale, reddish brn forming soft mud balls

Lime, crm, mostly fnxn, few pcs oolitic, scattered staining, NFO,No odor

Shale, gray, calcareous w/ chert nodules

Lime, crm-tan, mostly fnxn w few pcs oolitic w/fossil fragments, spotted stain, NFO, No odor

Shale, gray-black carbonaceous

Lime, tan-lt brn, fnxn, scattered oolitic fragments, scattered stain, NFO

Lime, wht-crm, oolitic-oomoldic in part, scattered stain, NFO, No odor

Shale, gray, fissile

Lime, crm-lt brn, fnxn, slightly chalky

Lime, lt brn, fnxn

Shale, gray-black carbonaceous

Lime, crm-lt gray, fnxn

Lime, crm-tan, fnxn, sparry calcite backfill in pores.

Lime, lt brn, fnxn, few pcs oolitic, spotty staining, NFO, No odor

Shale, gray, blocky

Lime, lt-med brn, mostly fnxn

Lime, crm-lt brn, fnxn-granular in part, NFO, No odor

Lime, crm-lt brn, fnxn-granular

Shale, gray-grayish green, blocky

Lime, wht-crm, fnxn w/gilsonite in part

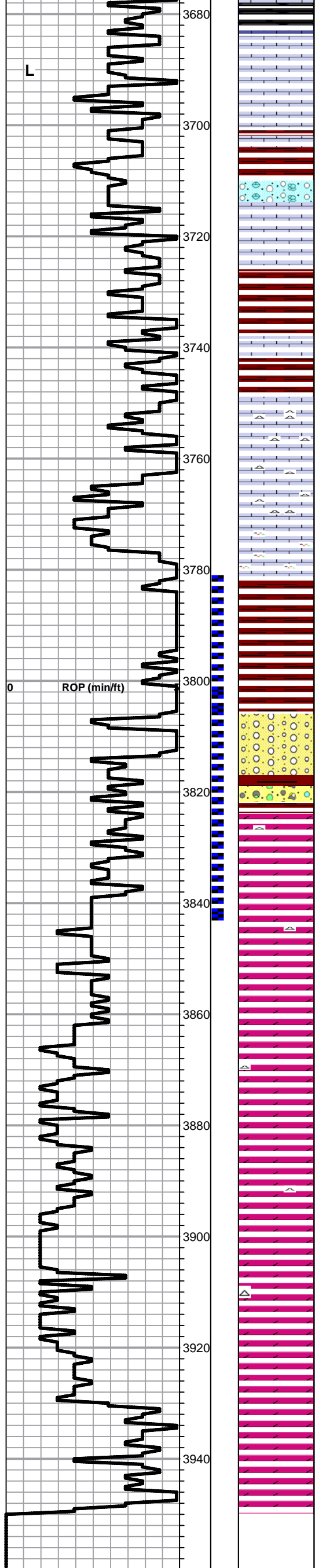
Lime, offwht-crm, fn-cryptocrystalline

Lime, lt gray-lt brn, fnxn

Lime, offwht-lt brn, fn-vfxn

Repaced automatic driller

Mud Check 3552
 WT 9.0
 VIS 53
 pH 10.5
 WL 7.2
 CHLORIDE 3000
 CALCIUM 40
 LCM 2#



Shale, gray-black carbonaceous

Lime, crm-lt brn, fnxln

Lime, offwht-lt brn, fnxln
BKC Spl top 3706-1544 ELog 3700-1538

Shale, reddish brn, soft, blocky

Lime, offwht-lt brn, fnxln, clastic lime-shale mix in part

Shale, reddish brn, blocky, fine sand-gritty in part

Lime, offwht-lt brn clastic mix

Shale, mix of colors, reds, browns, grays
MARMATON Spl top 3754-1592 ELog 3751-1589

Lime, tan-brn, fnxln, fresh crm-lt brn chert

Lime, dolomitic, fnxln-granular, hard, fresh chert, NS, No wet cut

Lime, dolomitic, crm-lt brn, fnxln-granular, very hard to crush

Shale, reds, brns, soft, lt red wash

Cherts, vari-colored
ARBUCKLE Spl top 3815-1653 ELog 3824-1662

- Dolomite, lt brn, fnxln, scattered-saturated stain, lt odor, VMSFO
- Dolomite, wht-ivory-lt brn, fnxln grading into cxln with rhombic crystalline development. Lt-saturated stain, lt odor.

Dolomite, ivory, fn-cxln, V LT Odor

Dolomite, ivory, fn-cxln, very lt to no odor

Dolomite, ivory-crm, fn-cxln, NS, NO Odor

Dolomite, ivory-crm, fn-cxln, specks of green glauconite

Dolomite, crm, fn-cxln

Dolomite, crm, fn-cxln

Dolomite, crm, fnxln

Dolomite, crm, fnxln
RTD 3950-1788 LTD 3949-1787

DST #1 3780-3844
 Straddle Test
 30-30-30-30
 REC:120'GIP
 75'GSMCO
 185' GMCO
 185' SGO
 445' Total Fluid
 Gravity 34
 BHT: 119 degrees
 ISIP: 1114#
 FSIP: 1071#
 FP: 30-110,133-186

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. 268

Date	3/26/12	Sec.	S	Twp.	13	Range	20	County	Ellis	State	KS	On Location		Finish	11:00 PM	
Lease	Wiesner Unit		Well No.	1		Location Ellis, 1 N, 1 W, 1 1/2 S, E + N into										
Contractor	Southwind Drilling Rig # 2							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							Charge To TDI, Inc.								
Hole Size	12 1/4"		T.D.	202'												
Csg.	8 3/8" 20#		Depth	201'												
Tbg. Size			Depth													
Tool			Depth													
Cement Left in Csg.	15'		Shoe Joint			The above was done to satisfaction and supervision of owner agent or contractor.										
Meas Line			Displace	12 Bbls.		Cement Amount Ordered 150 sxcem 3% cc 2% gel										

EQUIPMENT

Pumptrk	9	No.	Cementor	Paul	Common	150
			Helper			
Bulktrk	14	No.	Driver	Matt	Poz. Mix	
			Driver			
Bulktrk	PV	No.	Driver	Cody	Gel.	3
			Driver			
JOB SERVICES & REMARKS					Calcium	3

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38

Est. Circ.
mix 150 sxc
Displace
Cement Circulated

Sand	
Handling	158
Mileage	

FLOAT EQUIPMENT

Guide Shoe	4 5/8"
Centralizer	
Baskets	
AFU Inserts	3 ways
Float Shoe	
Latch Down	

Thank You!!

Pumptrk Charge	Surface
Mileage	18

Tax	
Discount	
Total Charge	

X Signature *William Lewis*

JOB LOG

SWIFT Services, Inc.

DATE 2 APR 12 PAGE NO.

CUSTOMER TDI

WELL NO. #1

LEASE Weisner Unit

JOB TYPE 2 stage cement / mg string

TICKET NO. 22044

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								150 sks EA-2 - 150 sl SMD w/ 1/2" flocc 5 1/2" x 14" casing Controlizer 1, 3, 5, 7, 9, 11, 13, 15, 59 Basket 2. 16, 59, 88' Unit clamp - mid #59
	0800							on loc TRK 114
	0825							start 5 1/2" 14" casing in well
	1015							Drop ball circulate - ROTATE
	11.5	4 3/4	12				200	Pump 500 gal mud flush
		4 3/4	20				200	Pump 20 bbl KCl flush
	1120	4 3/4	36				200	mix EA-2 @ 15.3 ppg 150 sks Drop latch down plug wash out pump & line
	1135	6 3/4	58				250	Displace plug w/ 1/2 O
		6 3/4	37				250	switch to mud
	1150		95				1500	Land plug Release pressure to truck - dried up Drop bomb
	1200							Plug RH - MH 30 sks - 20 sks
	1210						1000	open DV tool
	1225	6 3/4	20				200	pump 20 bbl KCl flush
		6 3/4	100				200	mix SMD @ 11.2 ppg 130 sks Drop 2nd stage plug
	1243	6 3/4					200	Displace 2nd plug
		6 3/4	34				300	— cement to surface —
	1243		36				2000	Land plug - close DV tool Release pressure to trucks dried up
	1245							wash truck Rack up
	1325							job complete

2nd stage cement to surface 130 sks mixed 20 top

Thanks
Doug, Dave & Brianne

LOG-TECH



DIGITAL LOG (785) 625-3858

Dual Induction Log

API No. 15-051-26,270-00-00

Company **TDI, Inc.**
 Well **Wiesner Unit No. 1**
 Field **Ellis Southeast**
 County **Ellis** State **Kansas**

Location **NE NE SW
 2310' FSL & 2310 FWL**

Sec: **5** Twp: **13 S** Rge: **20 W**

Other Services
 CNL/CDL
 MEL

Permanent Datum **Ground Level** Elevation **2153**
 Log Measured From **Kelly Bushing** 9 Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

Elevation
 K.B. 2162
 D.F. G.L. 2153

Date	4/1/2012
Run Number	One
Depth Driller	3950
Depth Logger	3949
Bottom Logged Interval	3948
Top Log Interval	200
Casing Driller	8.625 @ 201
Casing Logger	202
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	3200
Density / Viscosity	9.4 49
pH / Fluid Loss	10.0 8.0
Source of Sample	Flowline
Rm @ Meas. Temp	1.1 @ 80
Rmf @ Meas. Temp	.82 @ 80
Rmc @ Meas. Temp	1.48 @ 80
Source of Rmf / Rmc	Charts
Rm @ BHT	.75 @ 117
Operating Rig Time	4 Hours
Max Rec. Temp. F	117
Equipment Number	91
Location	Hays
Recorded By	D.Kerr
Witnessed By	Herb Deines

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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

Ellis KS, West on 3rd ST,
 Keep Right at the Y,
 North Into at Gate

Database File: tdi_04012hd.db
 Dataset Pathname: DIL/tdistk
 Presentation Format: dil2in
 Dataset Creation: Sun Apr 01 15:29:56 2012
 Charted by: Depth in Feet scaled 1:600

0 Gamma Ray 150
-200 SP 0

0 Shallow Resistivity 50
0 Deep Resistivity 50

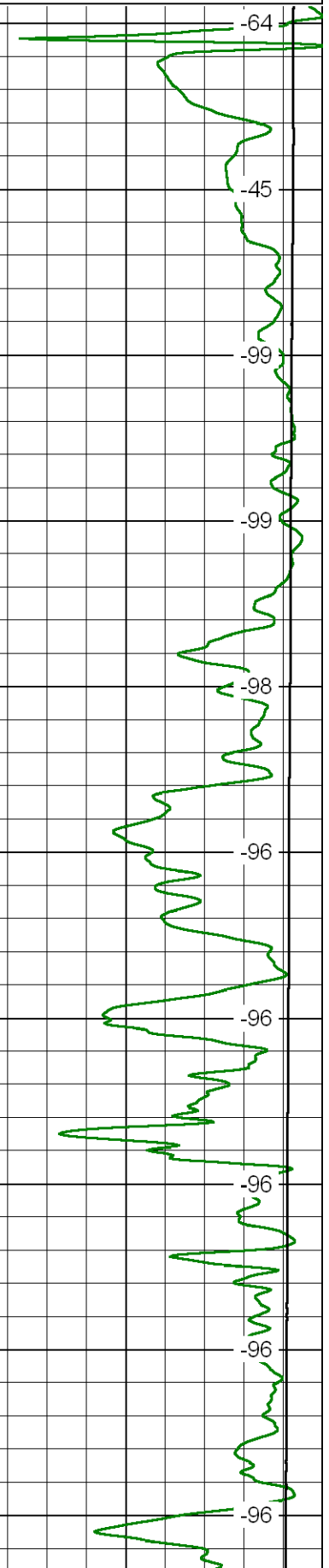
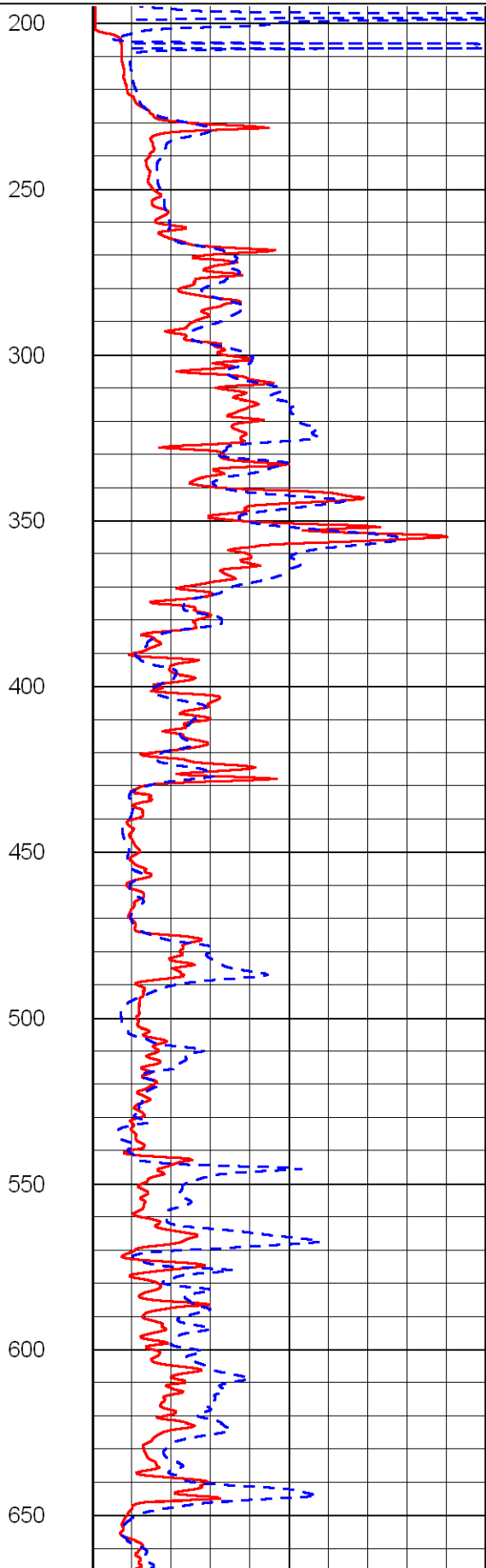
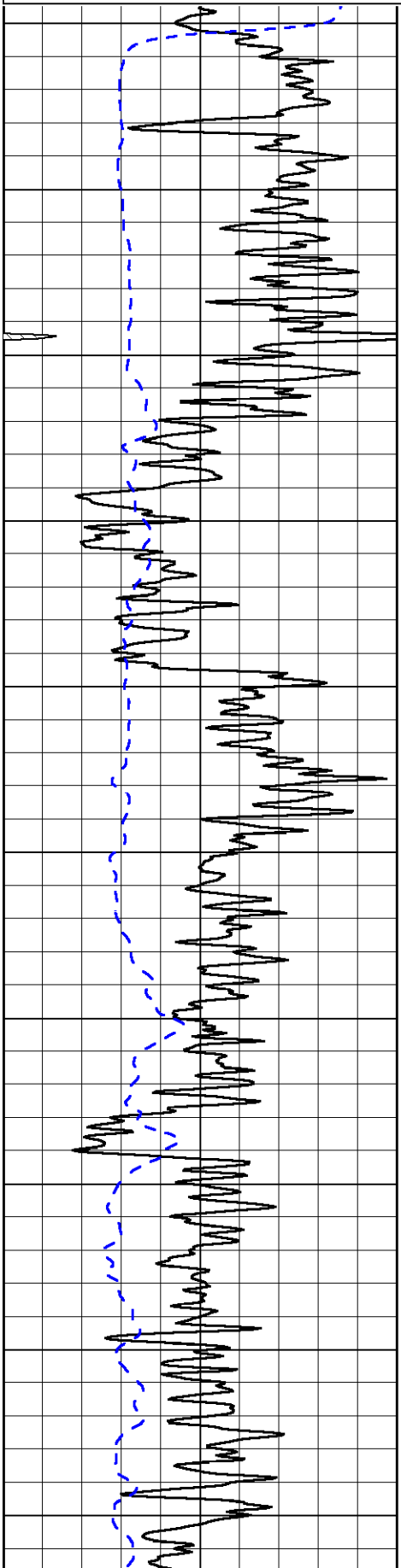
LSPD

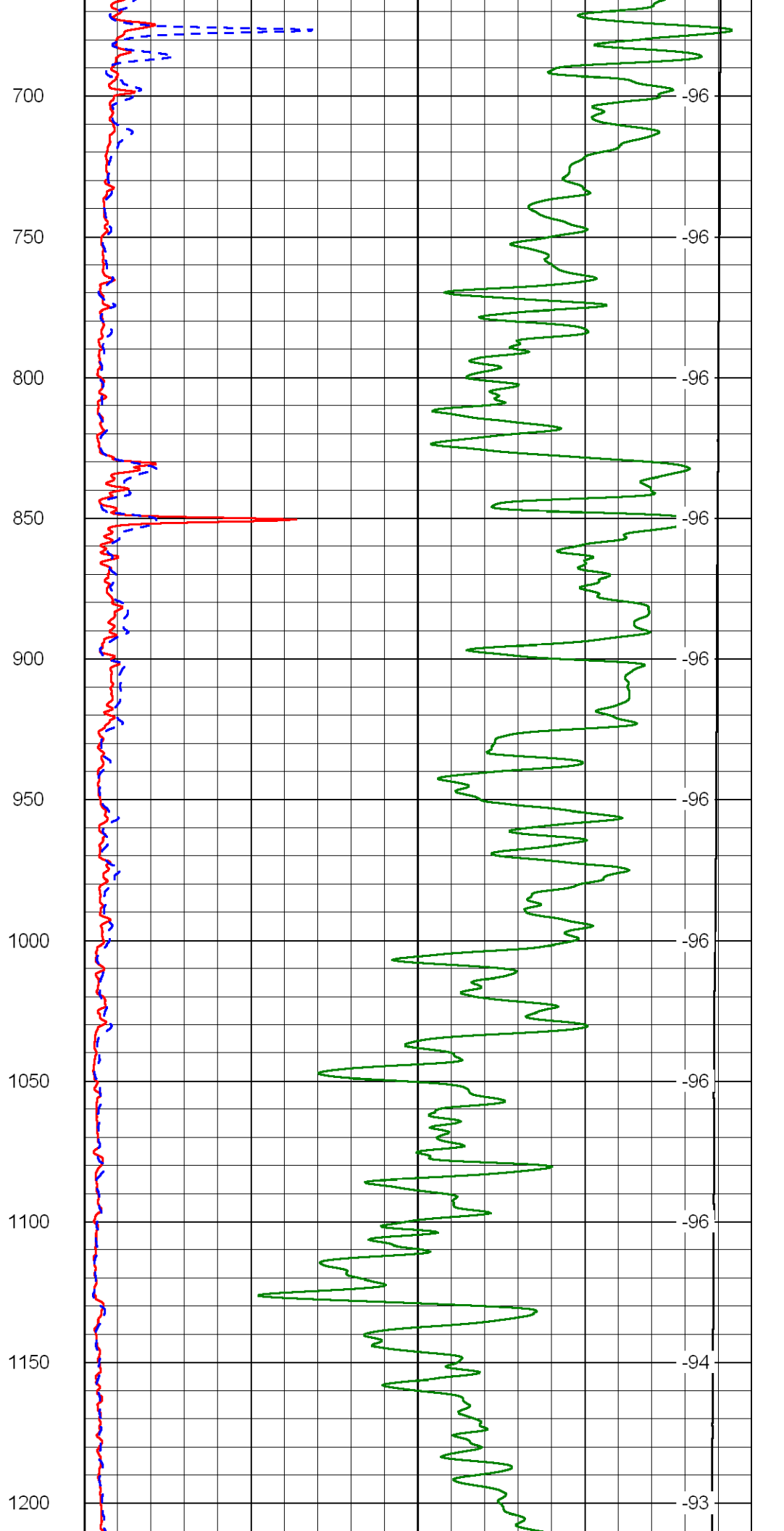
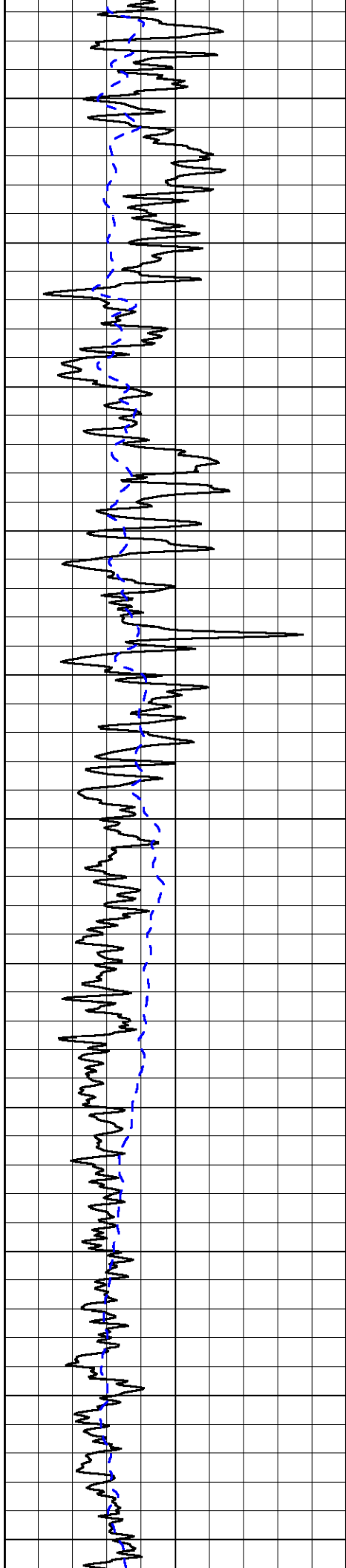
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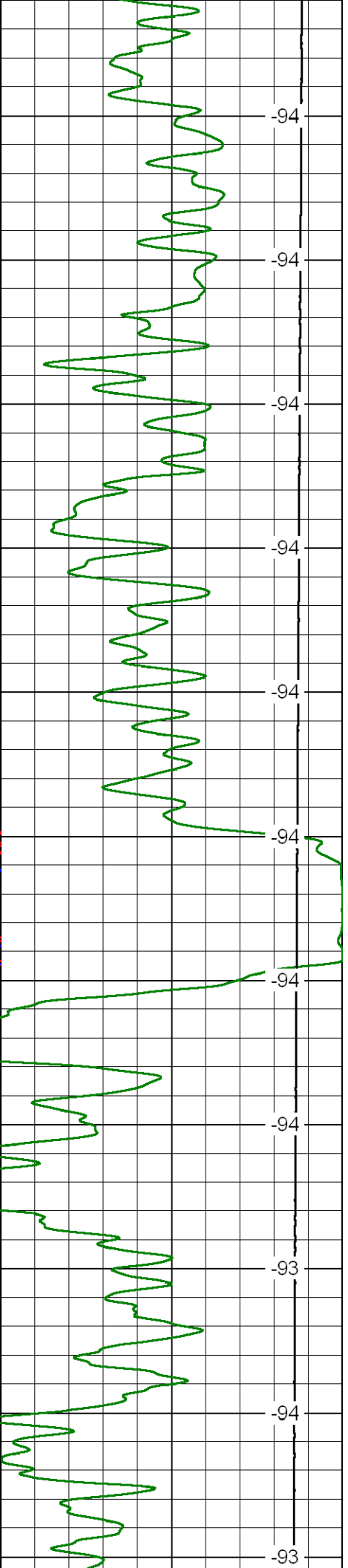
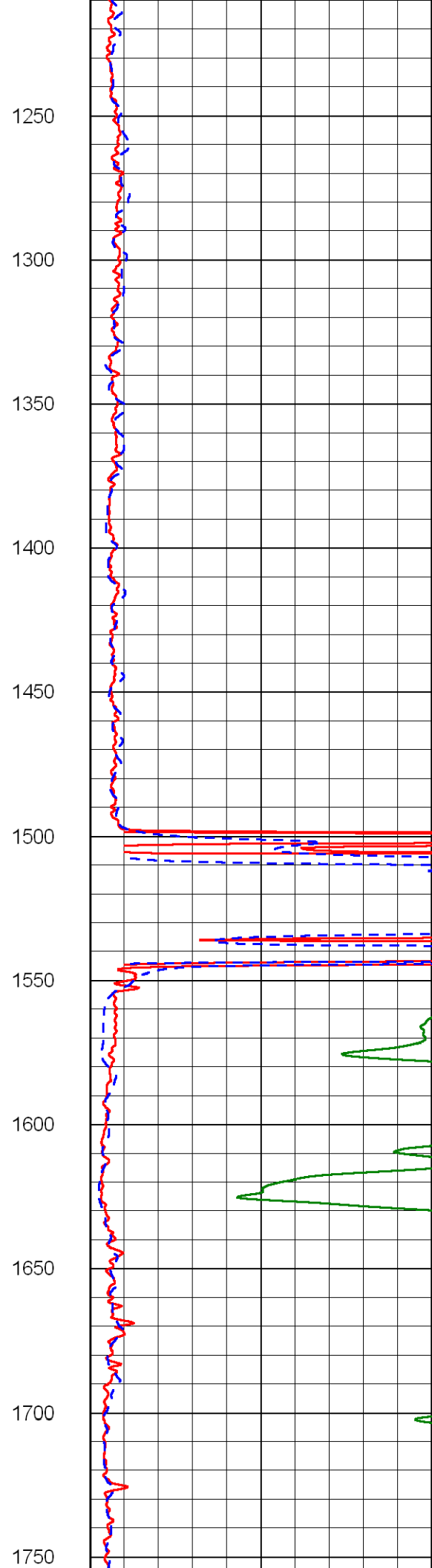
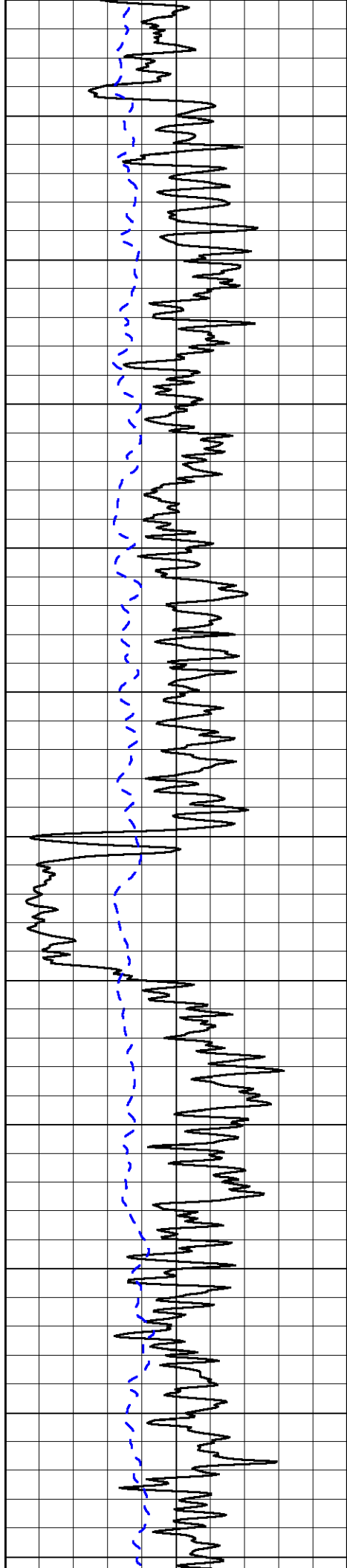
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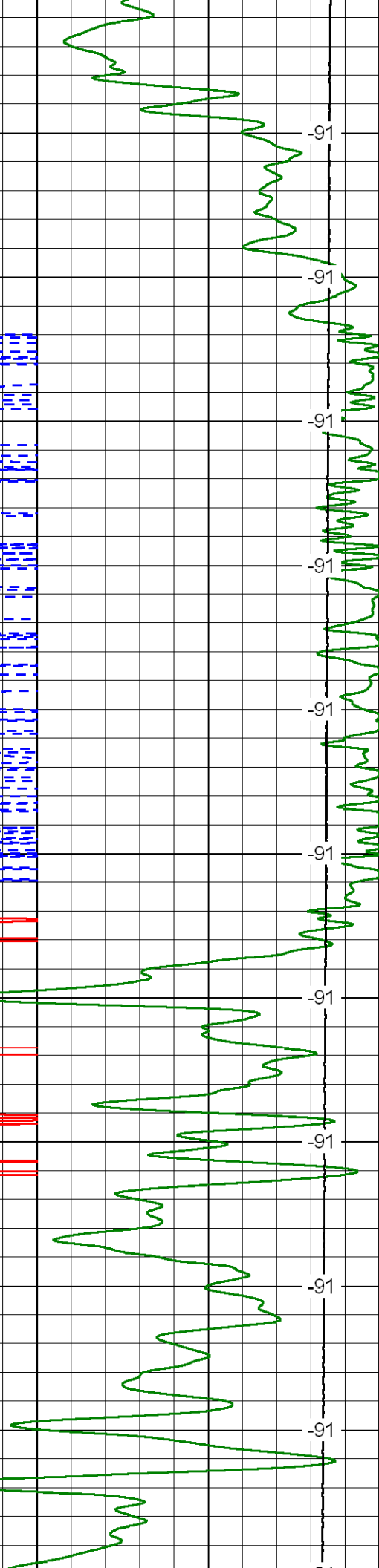
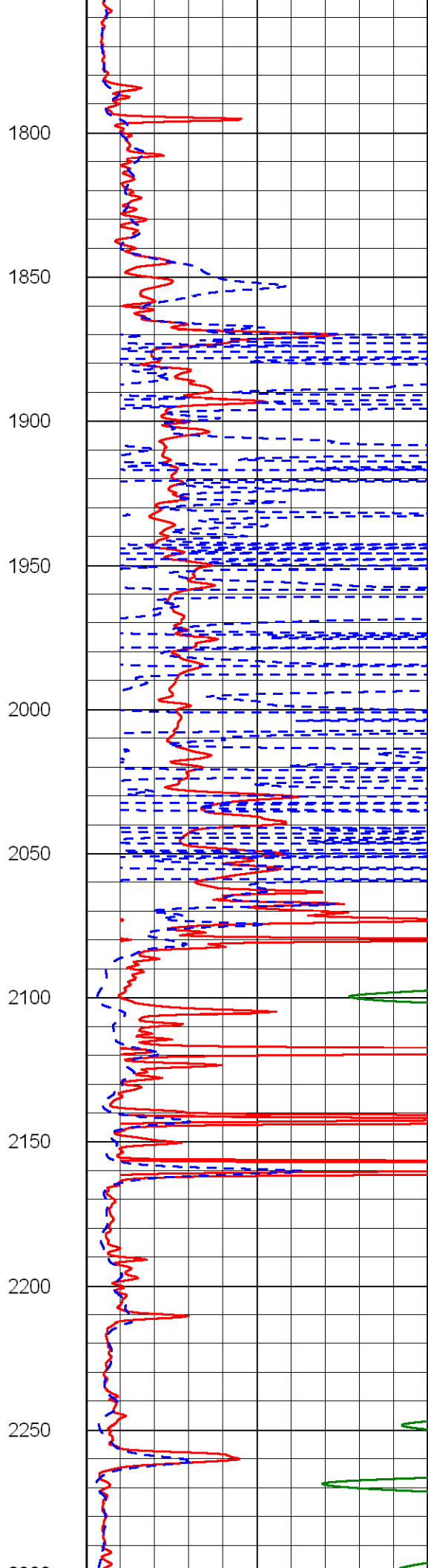
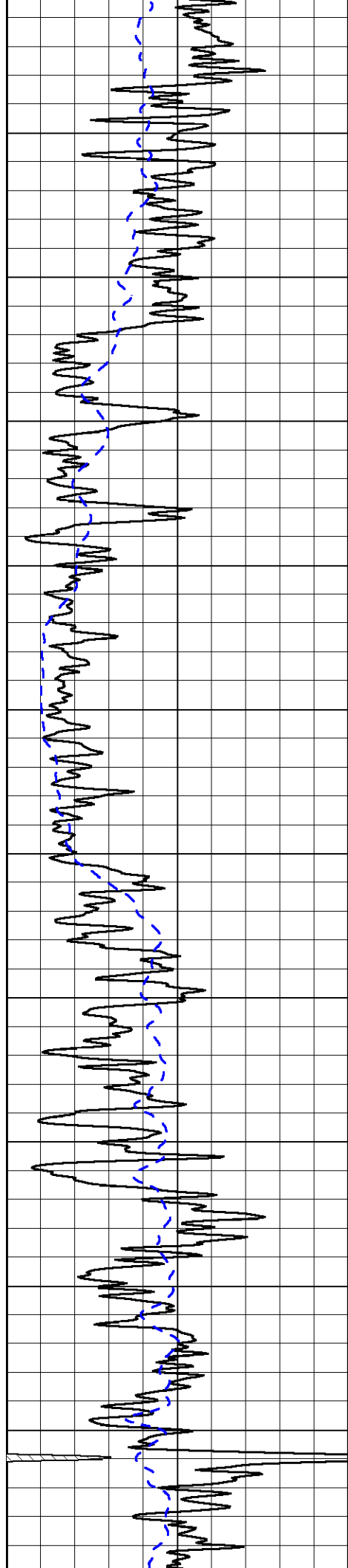
50 Shallow Resistivity 500

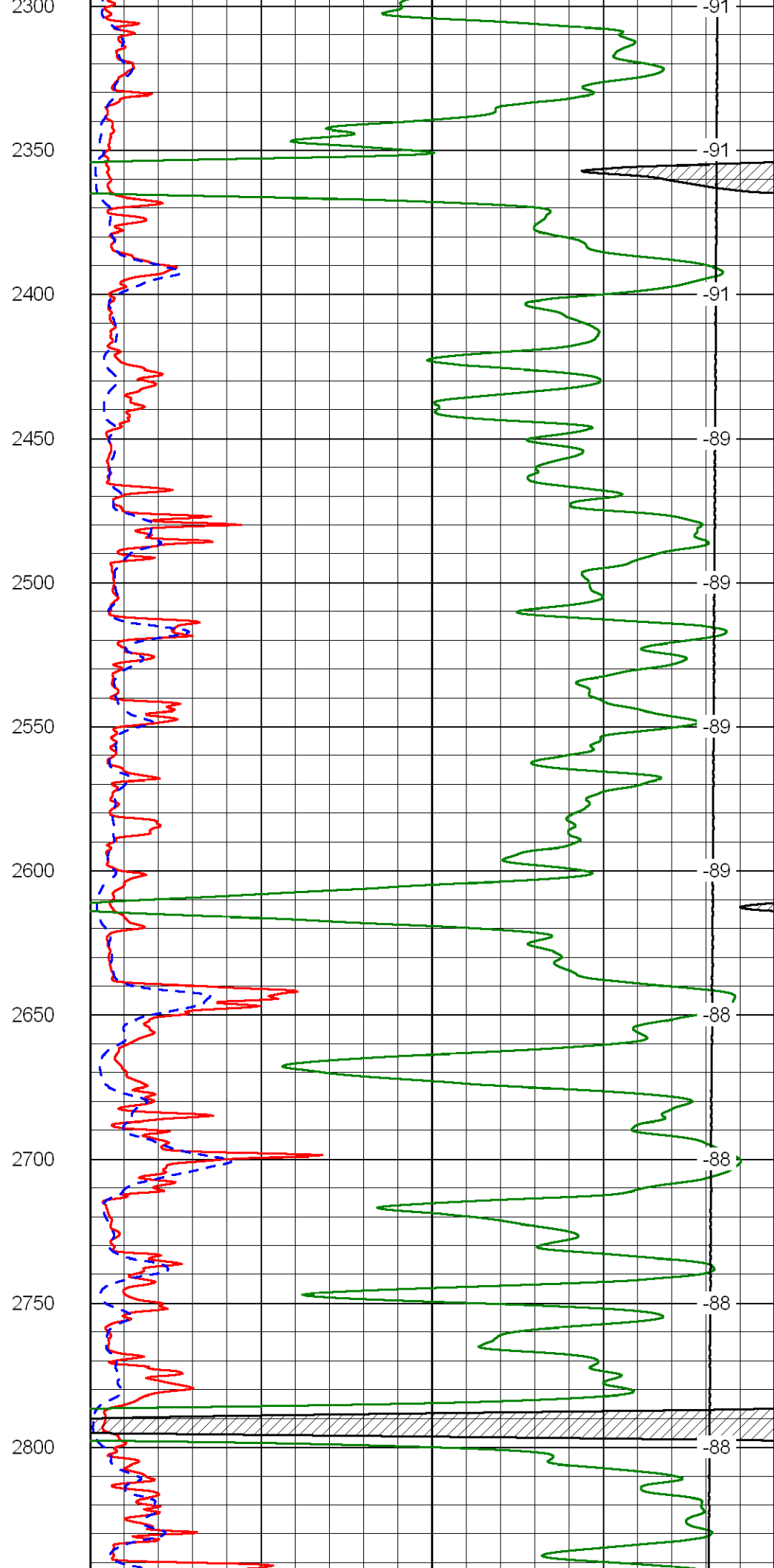
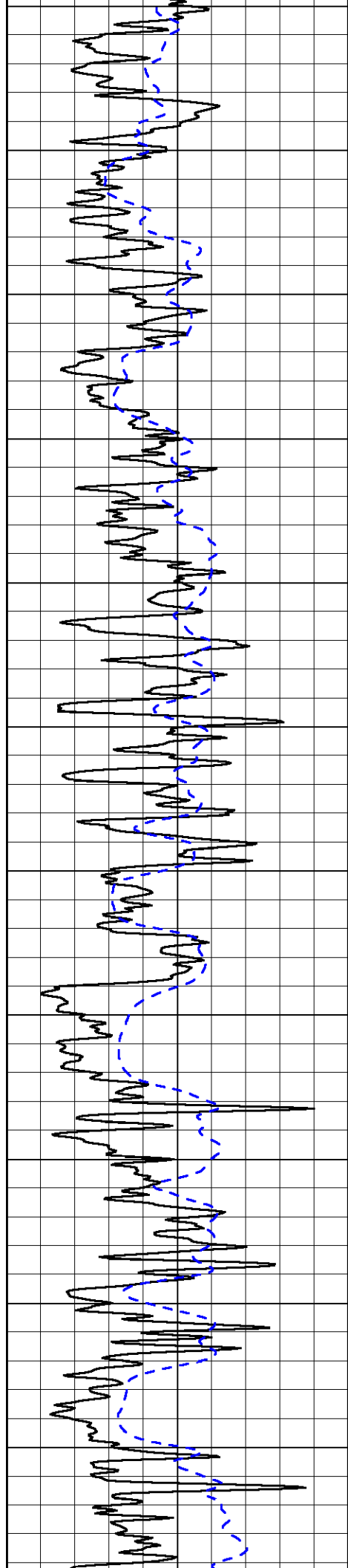
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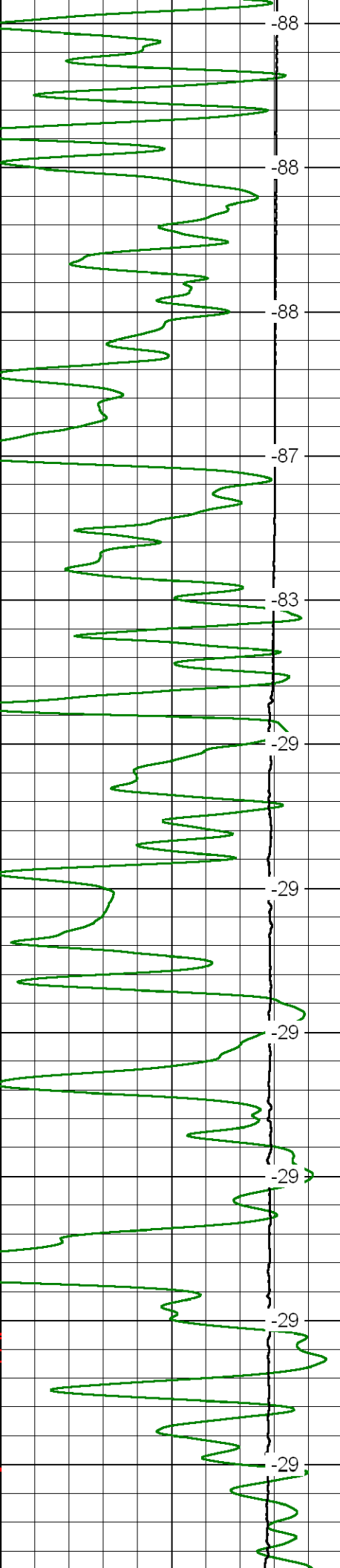
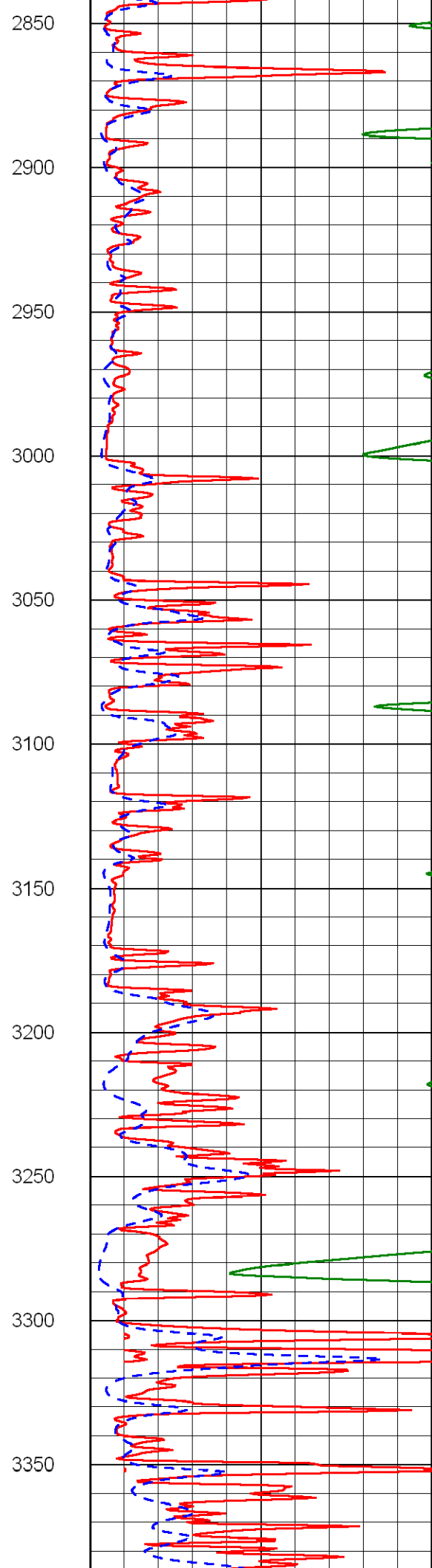
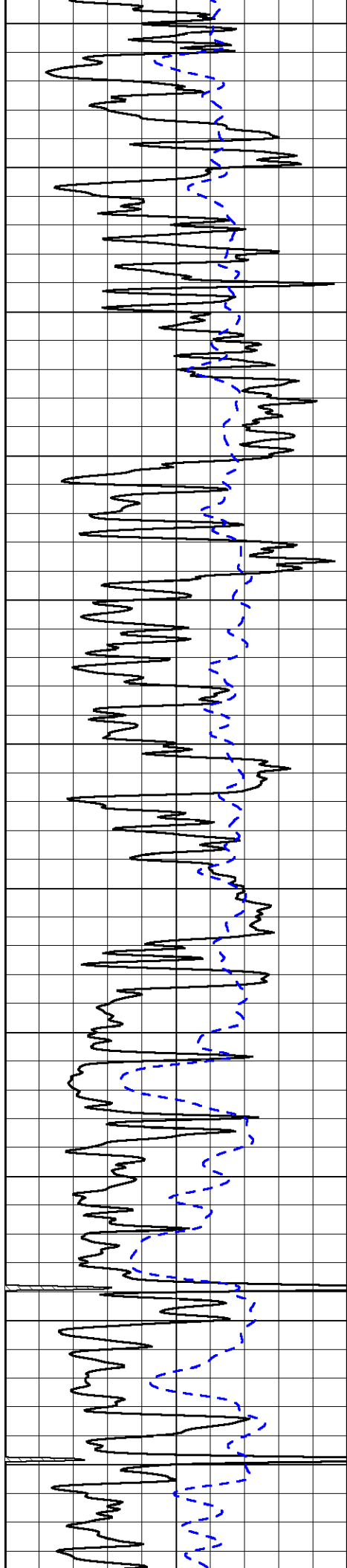


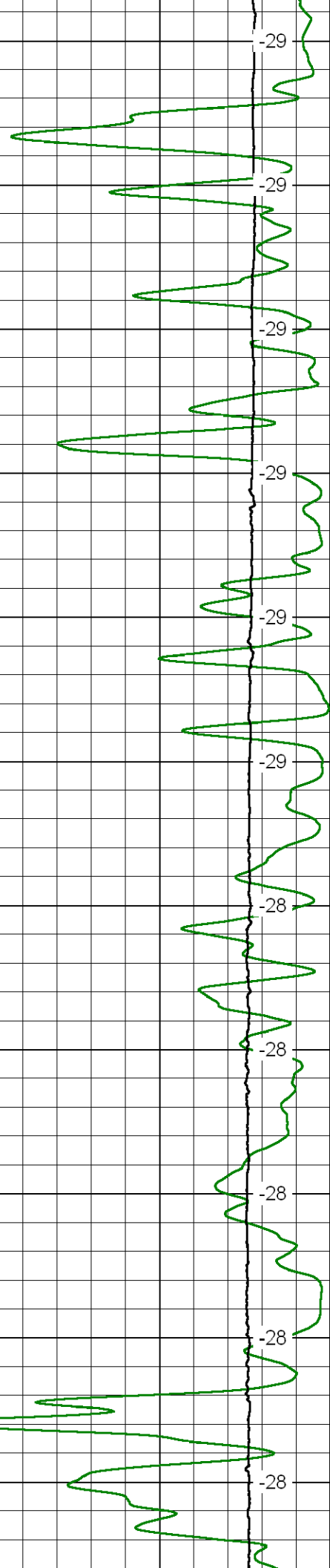
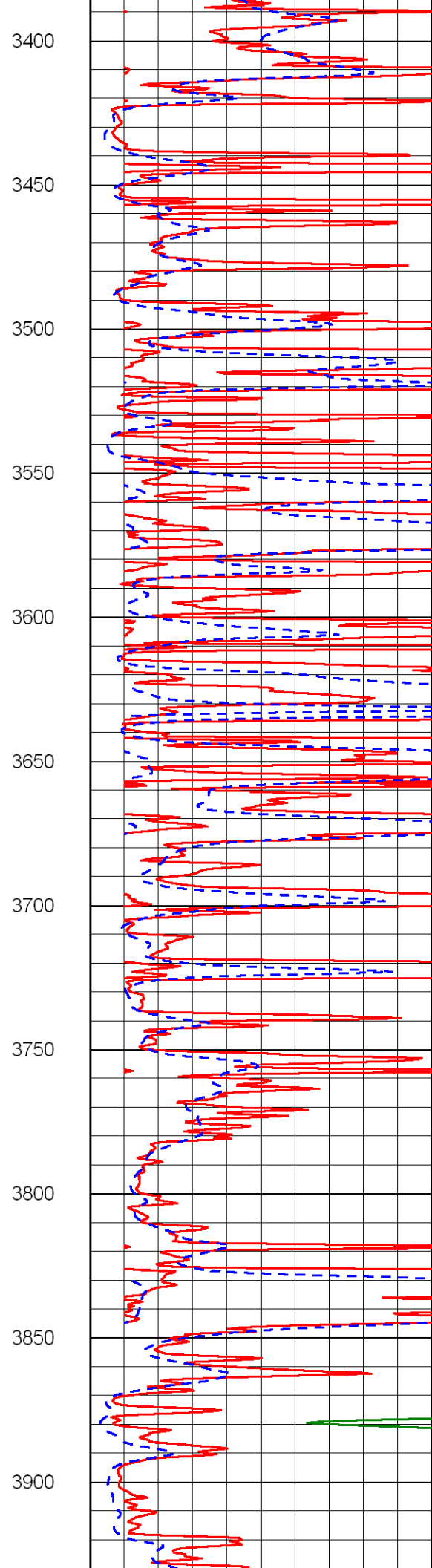
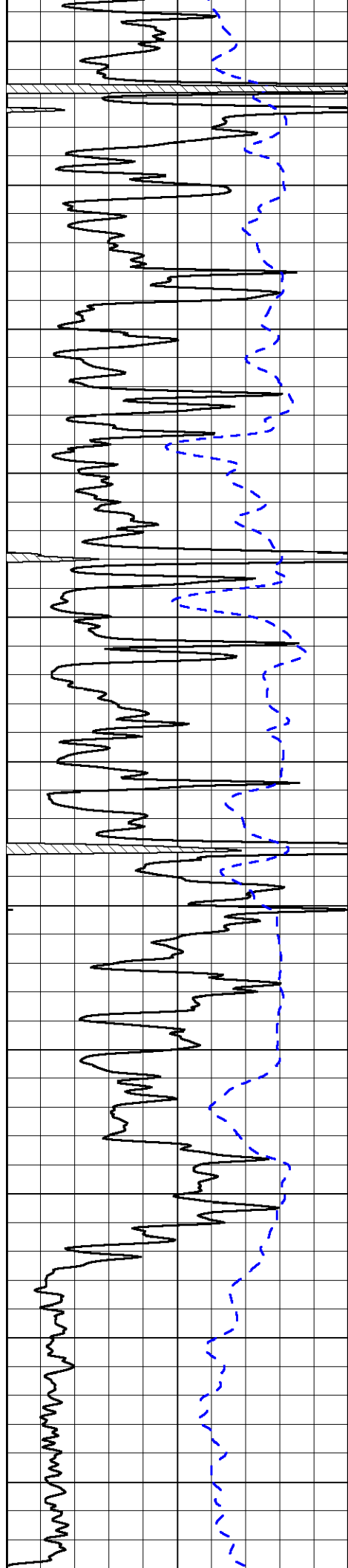


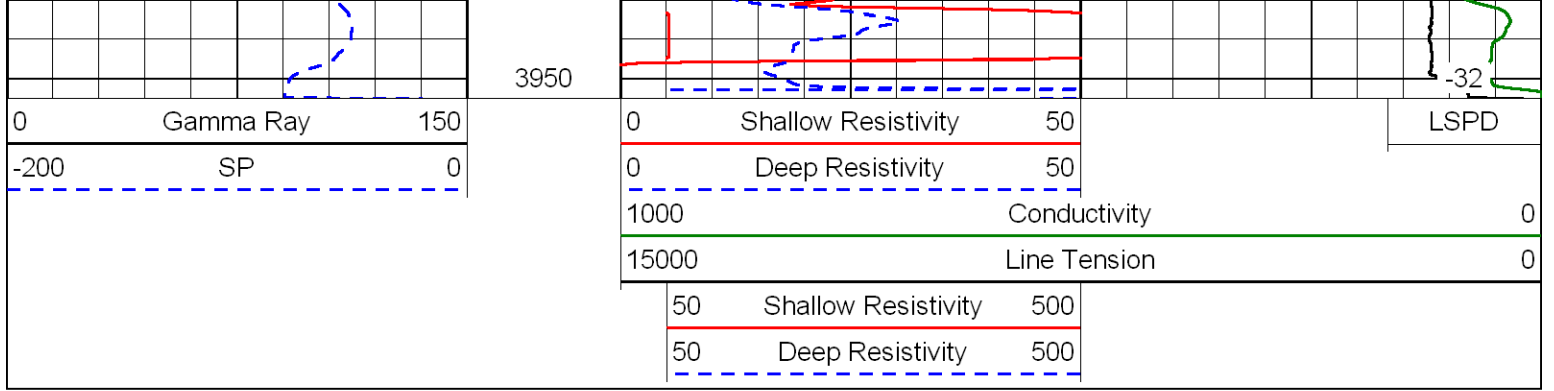




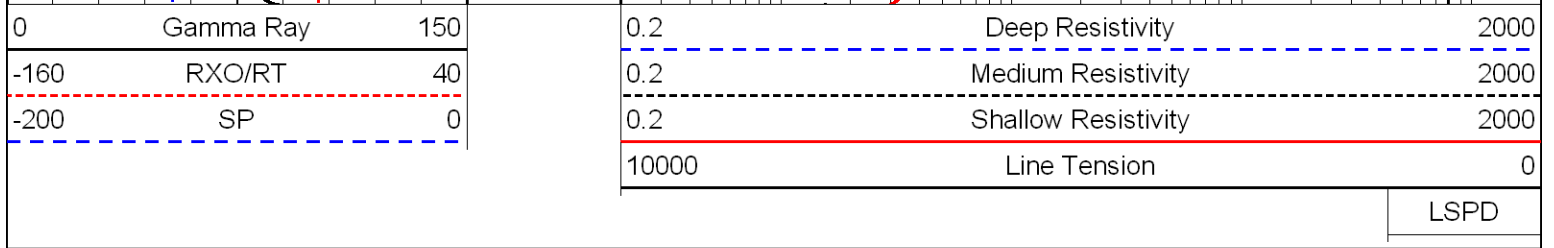
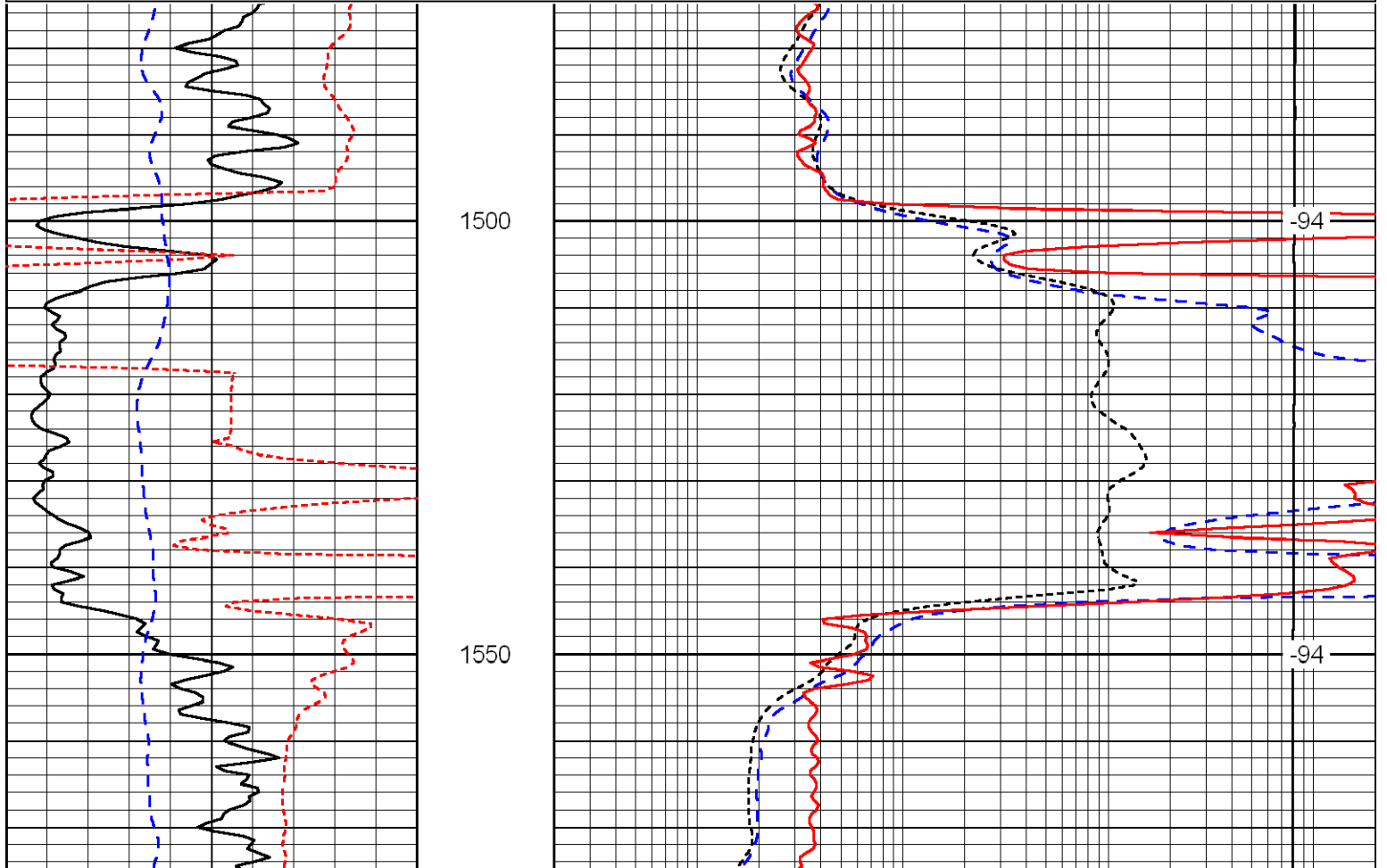
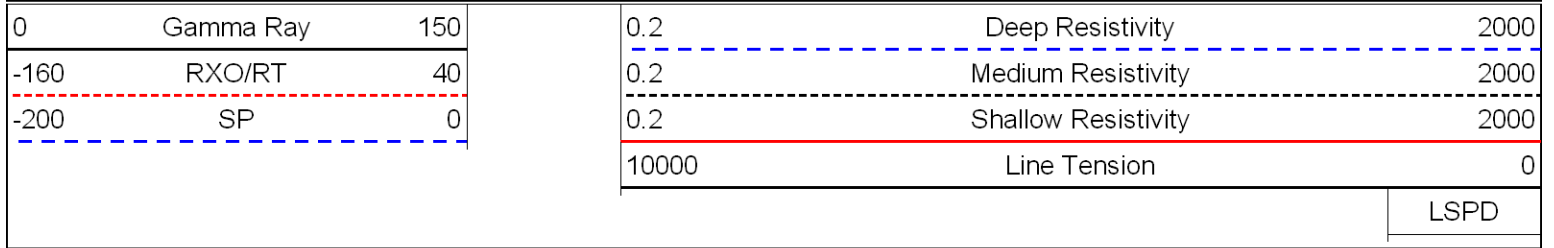








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 Charted by: Depth in Feet scaled 1:240

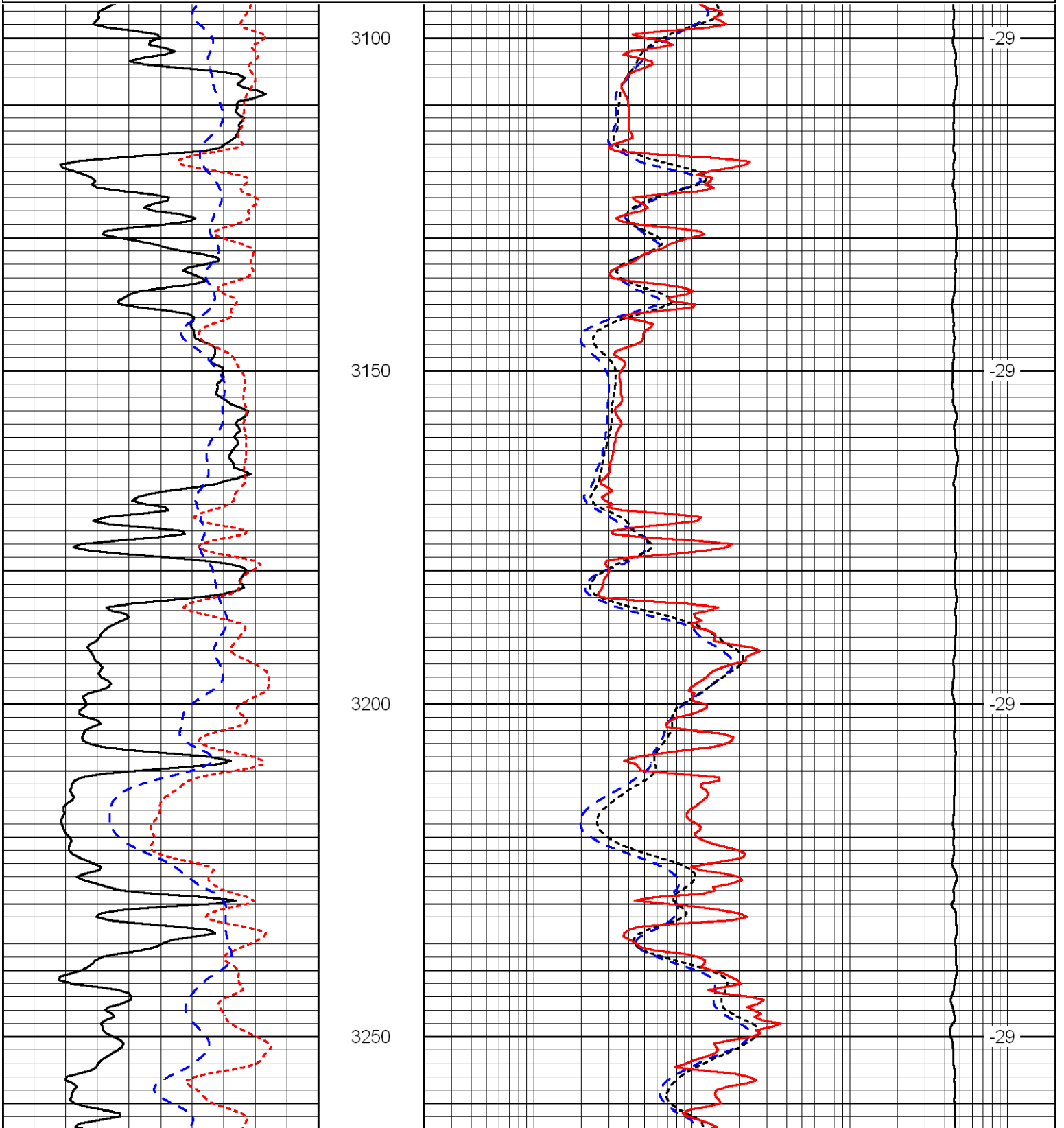


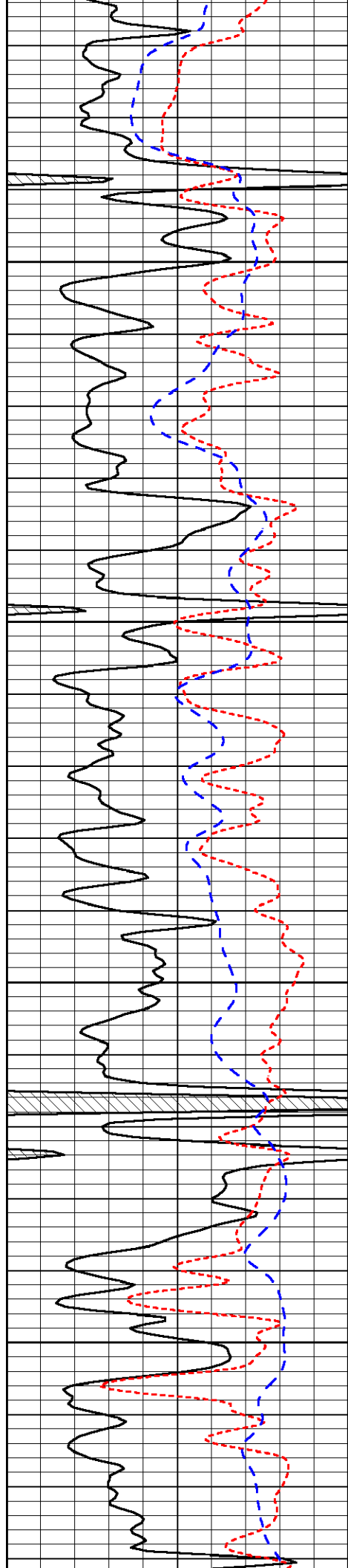
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 Dataset Pathname: DIL/tdistk
 Presentation Format: dil
 Dataset Creation: Sun Apr 01 15:29:56 2012
 Charted by: Depth in Feet scaled 1:240

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

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

LSPD



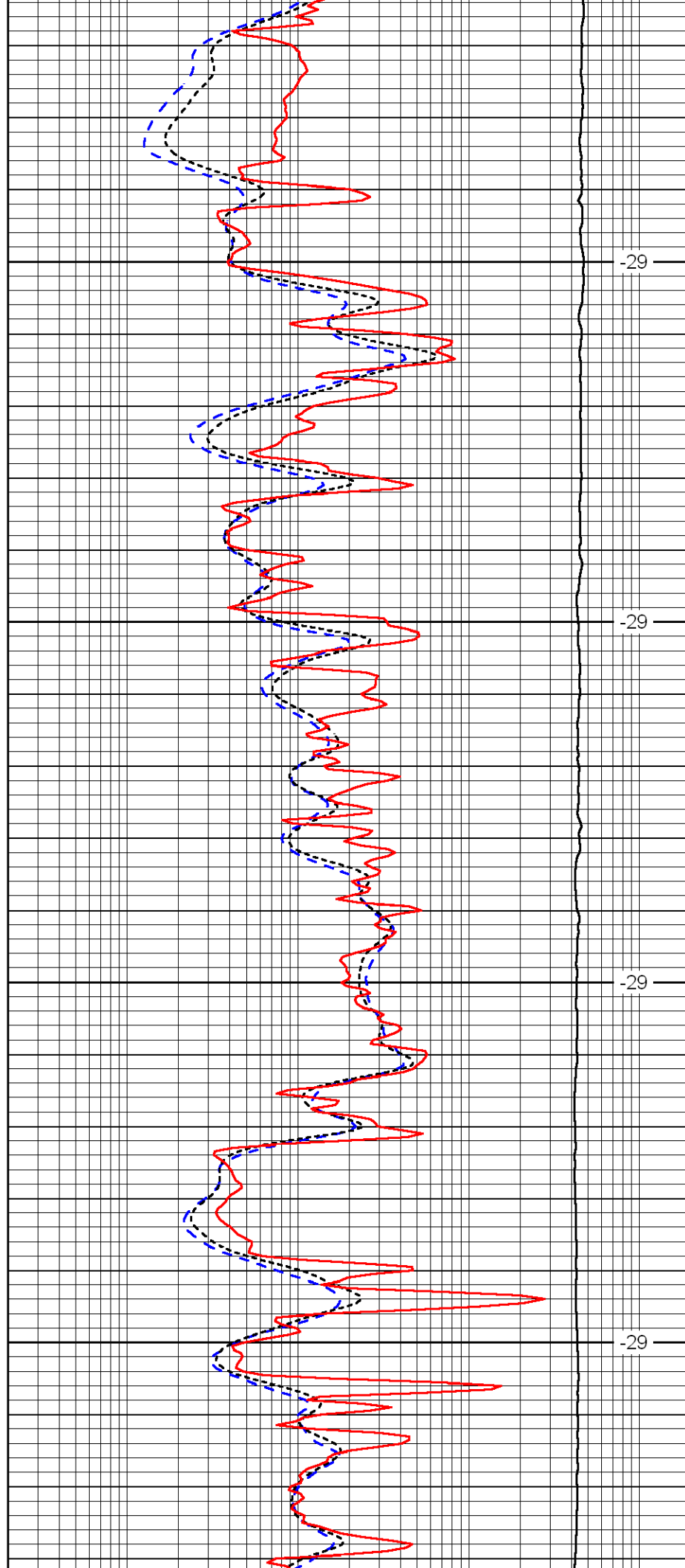


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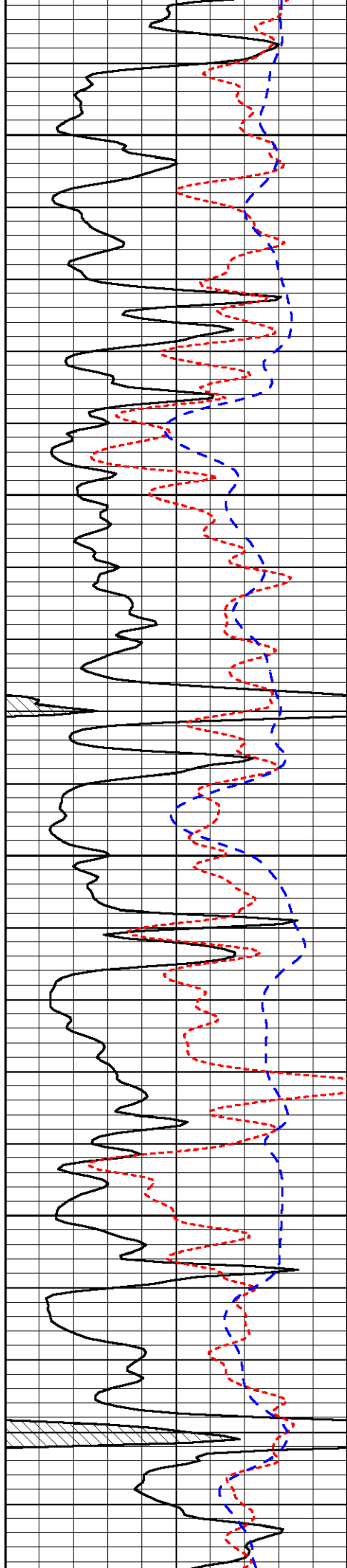


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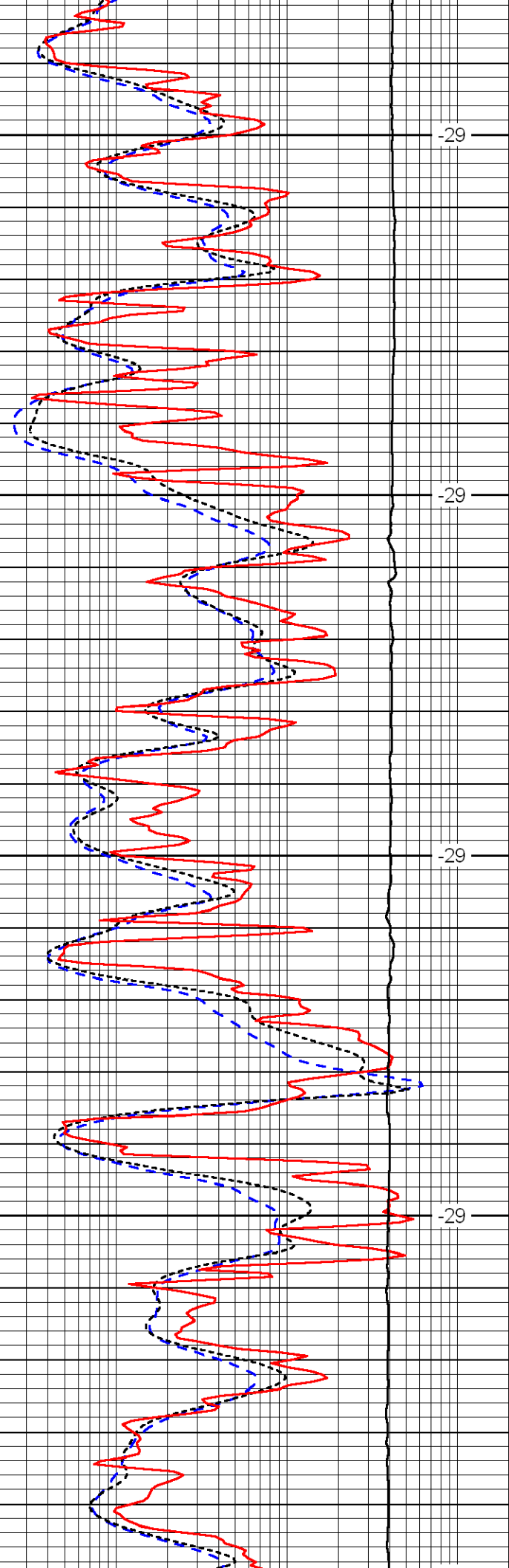


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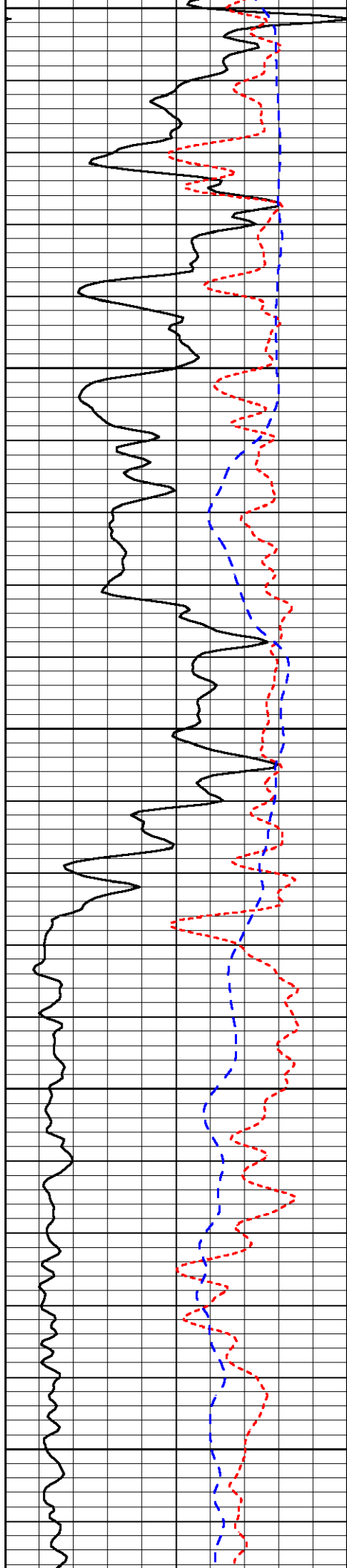


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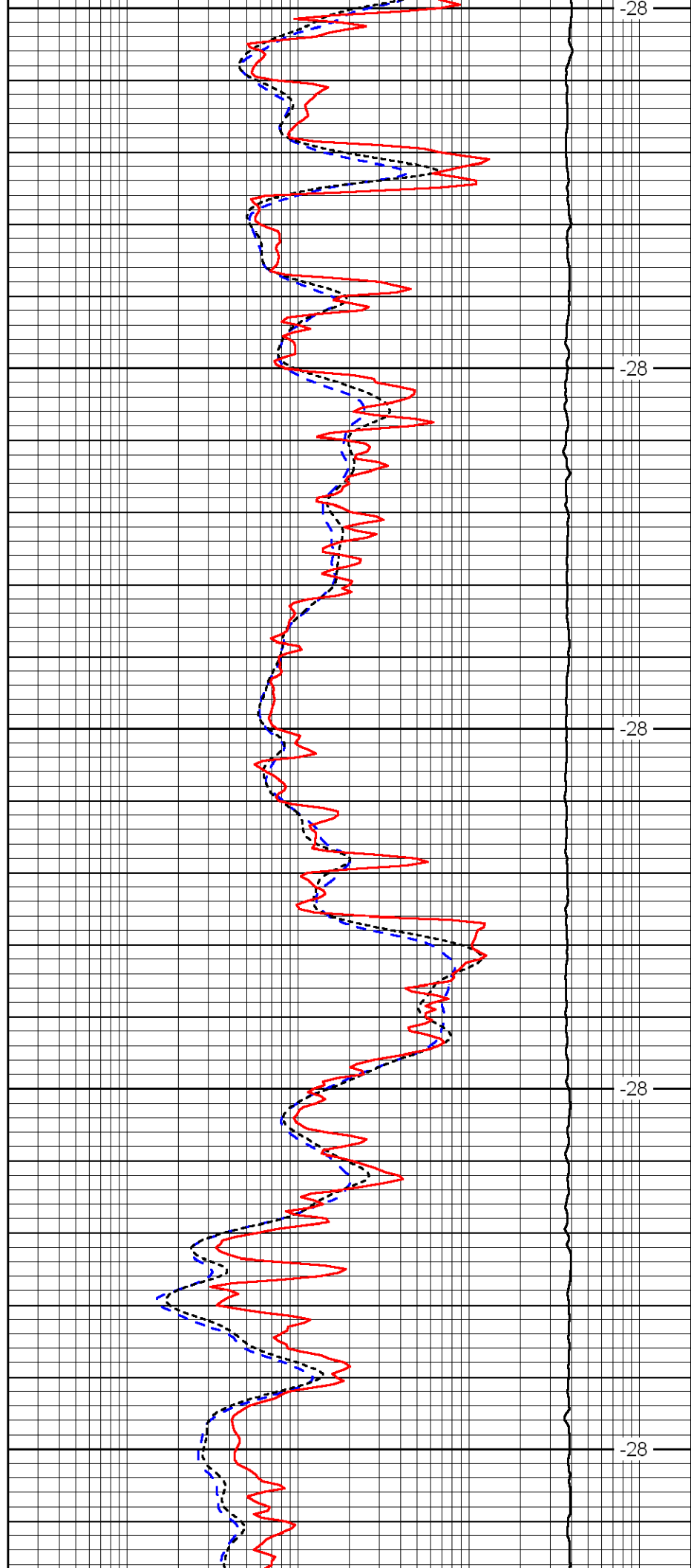
3700

3750

3800

3850

3900



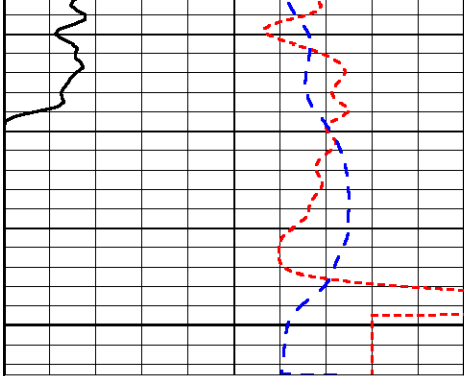
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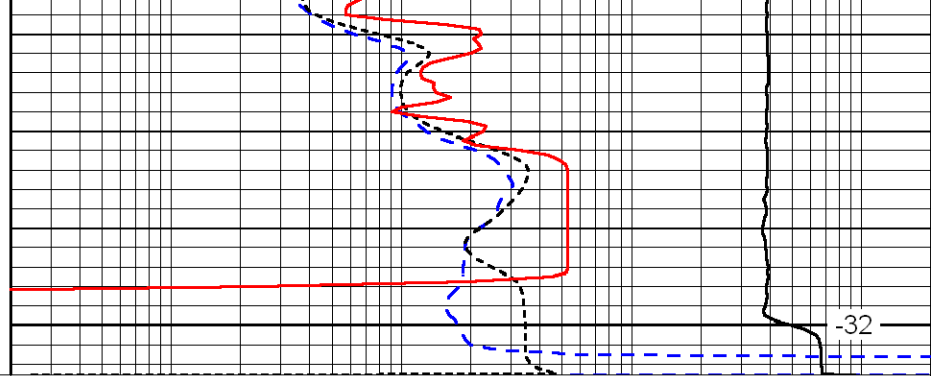
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-28



3950

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



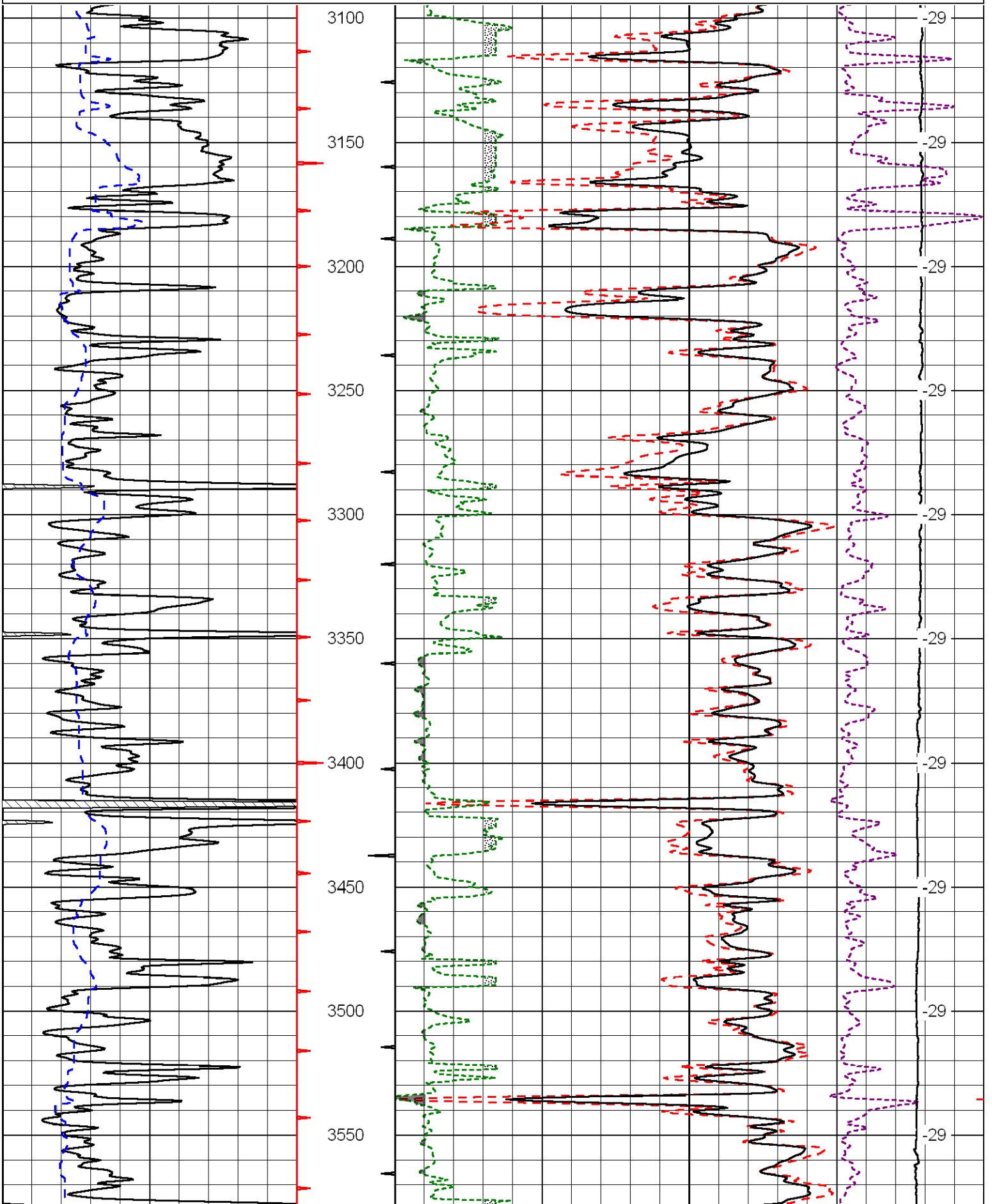
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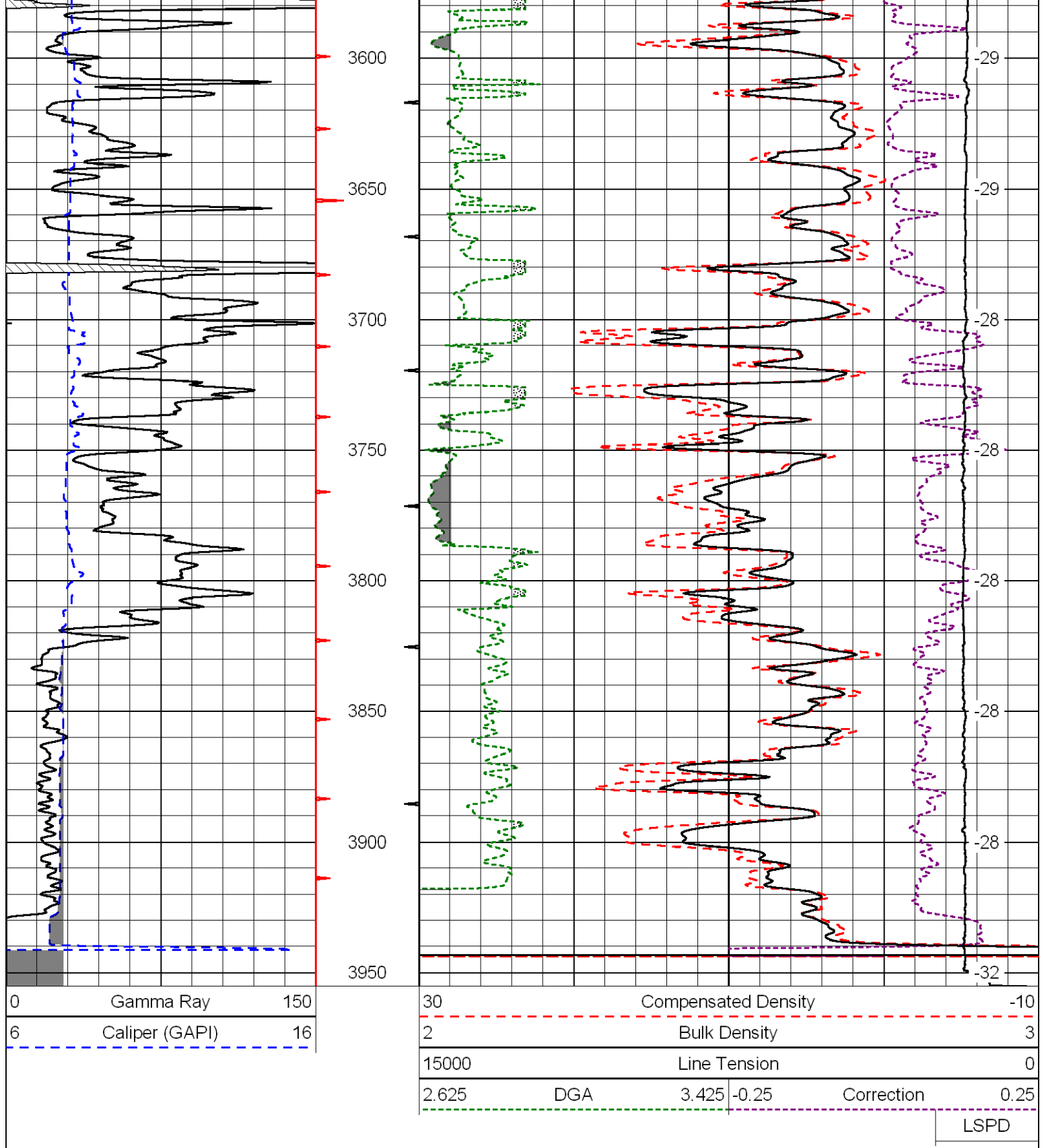
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0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
10000	Line Tension	0

LSPD

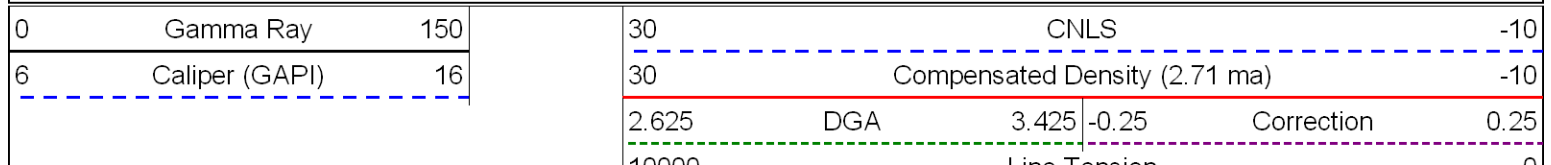
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6	Caliper (GAPI)	16

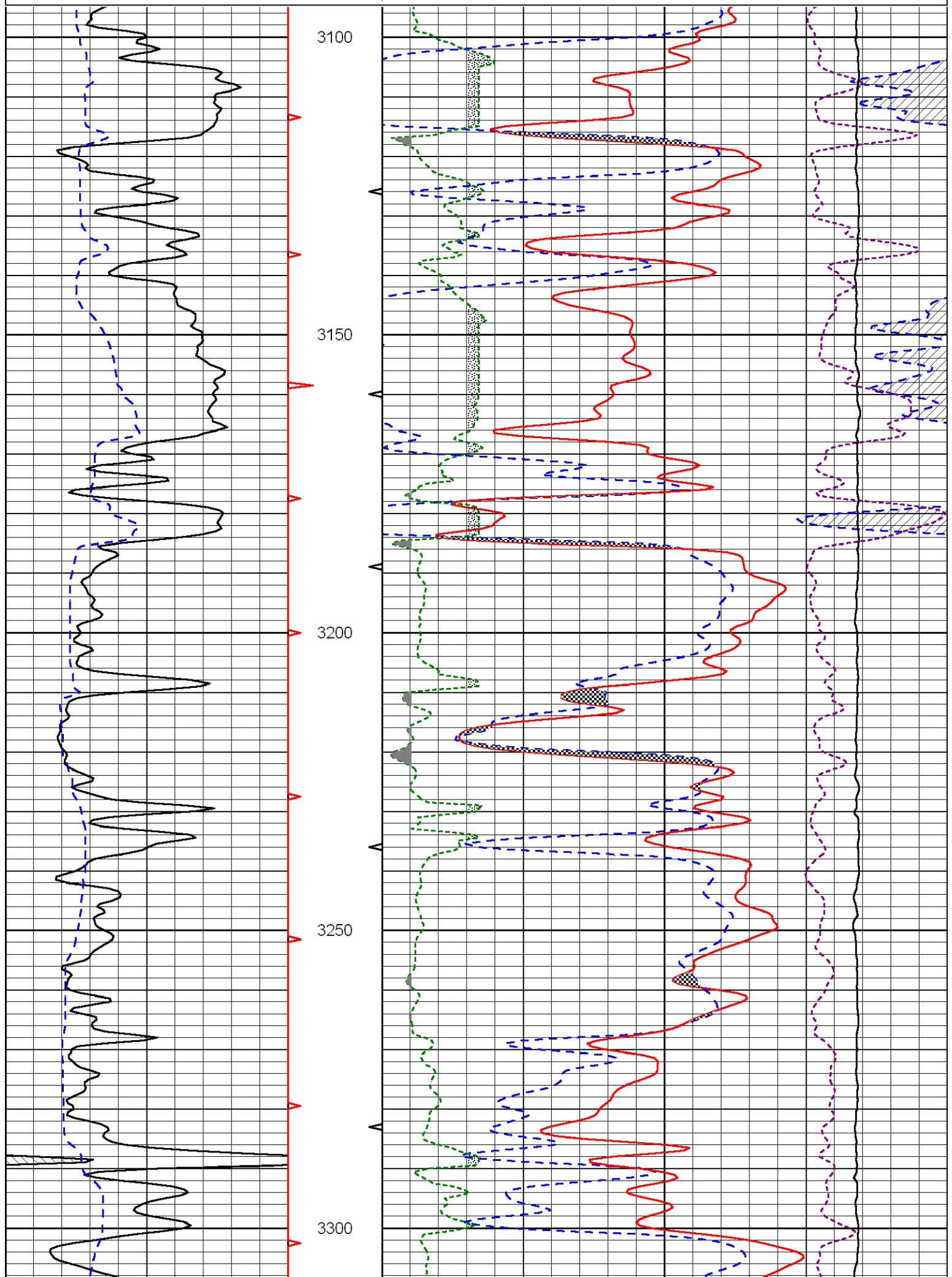
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
Correction			0.25
LSPD			

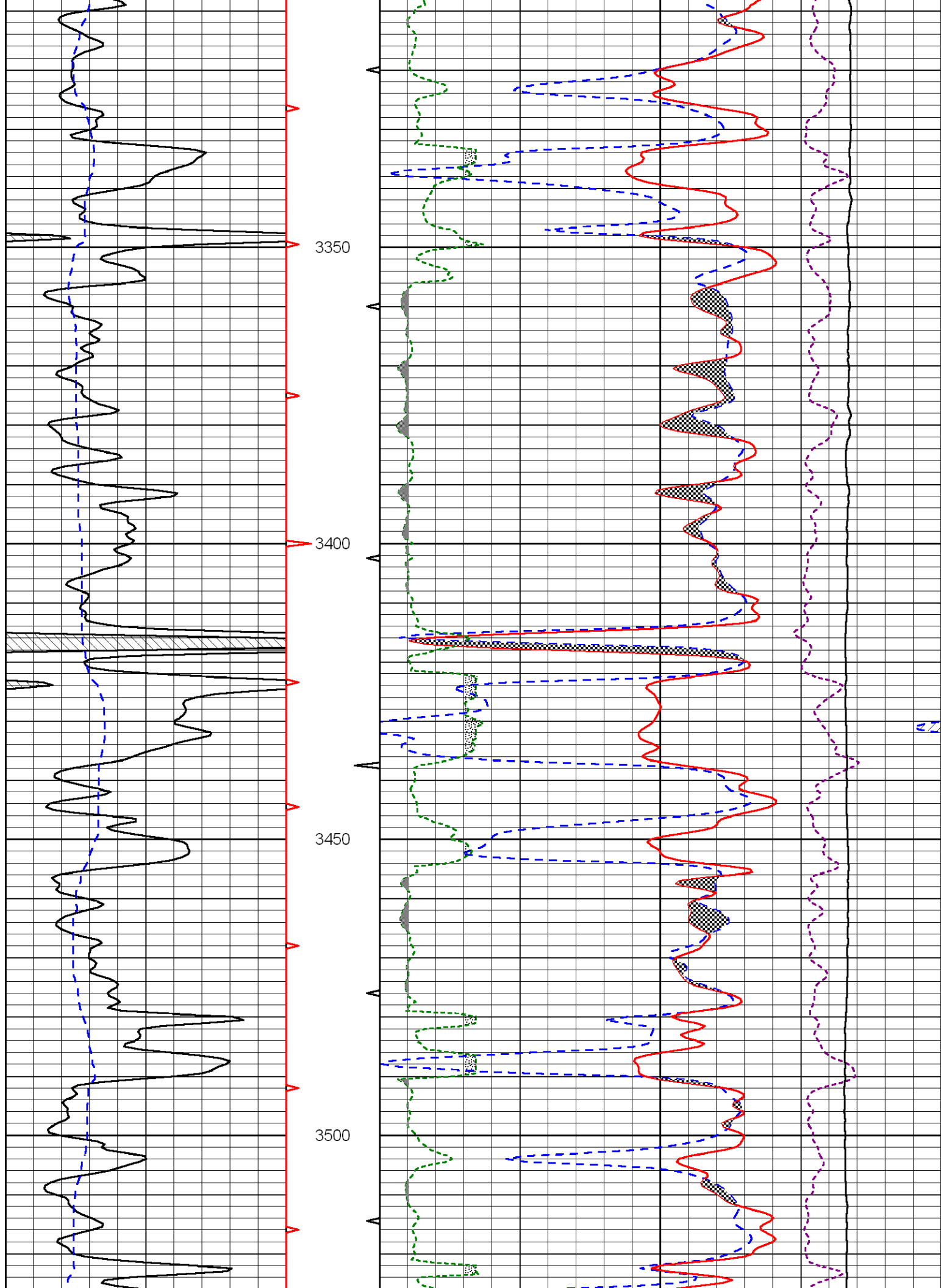


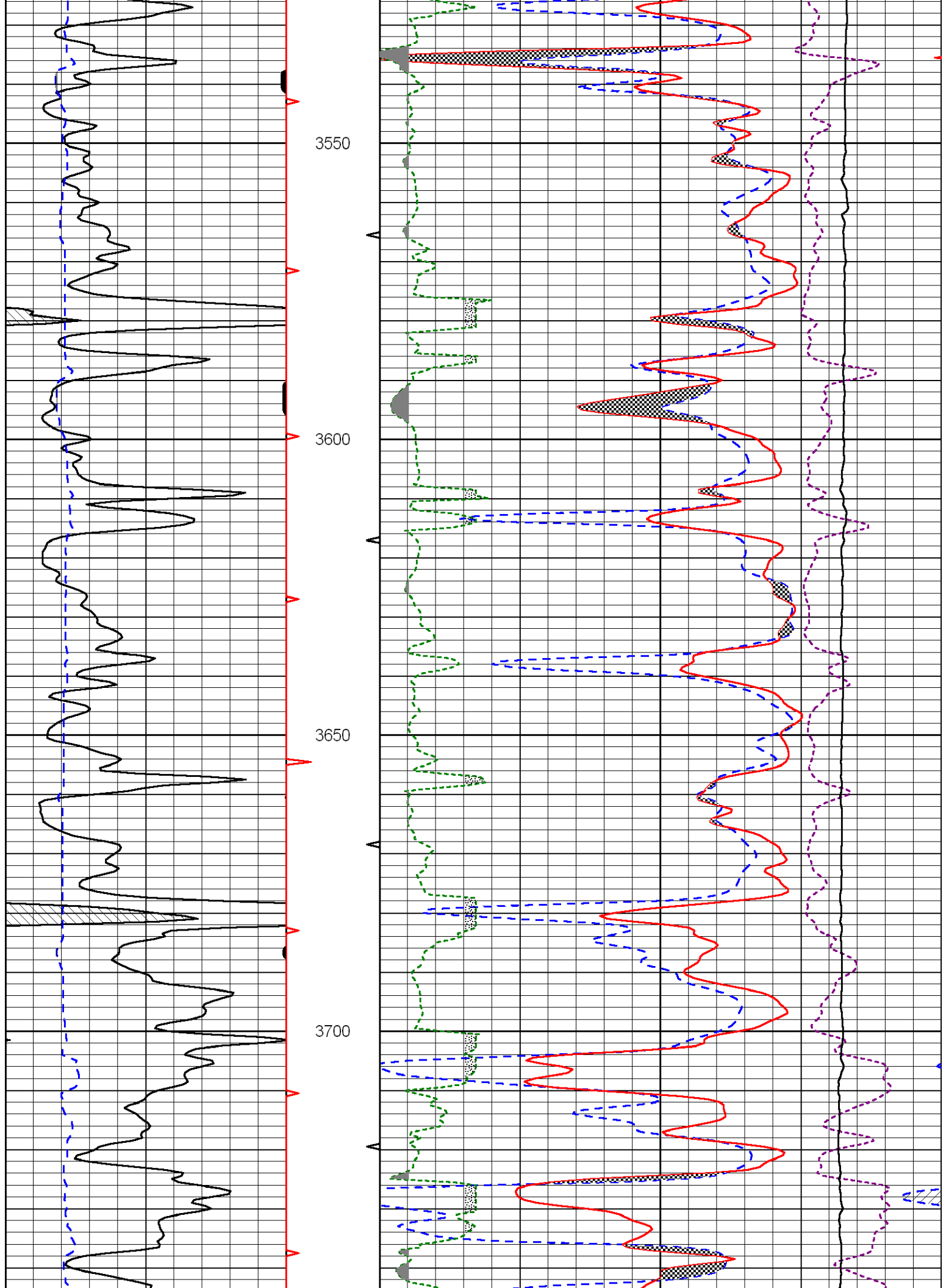


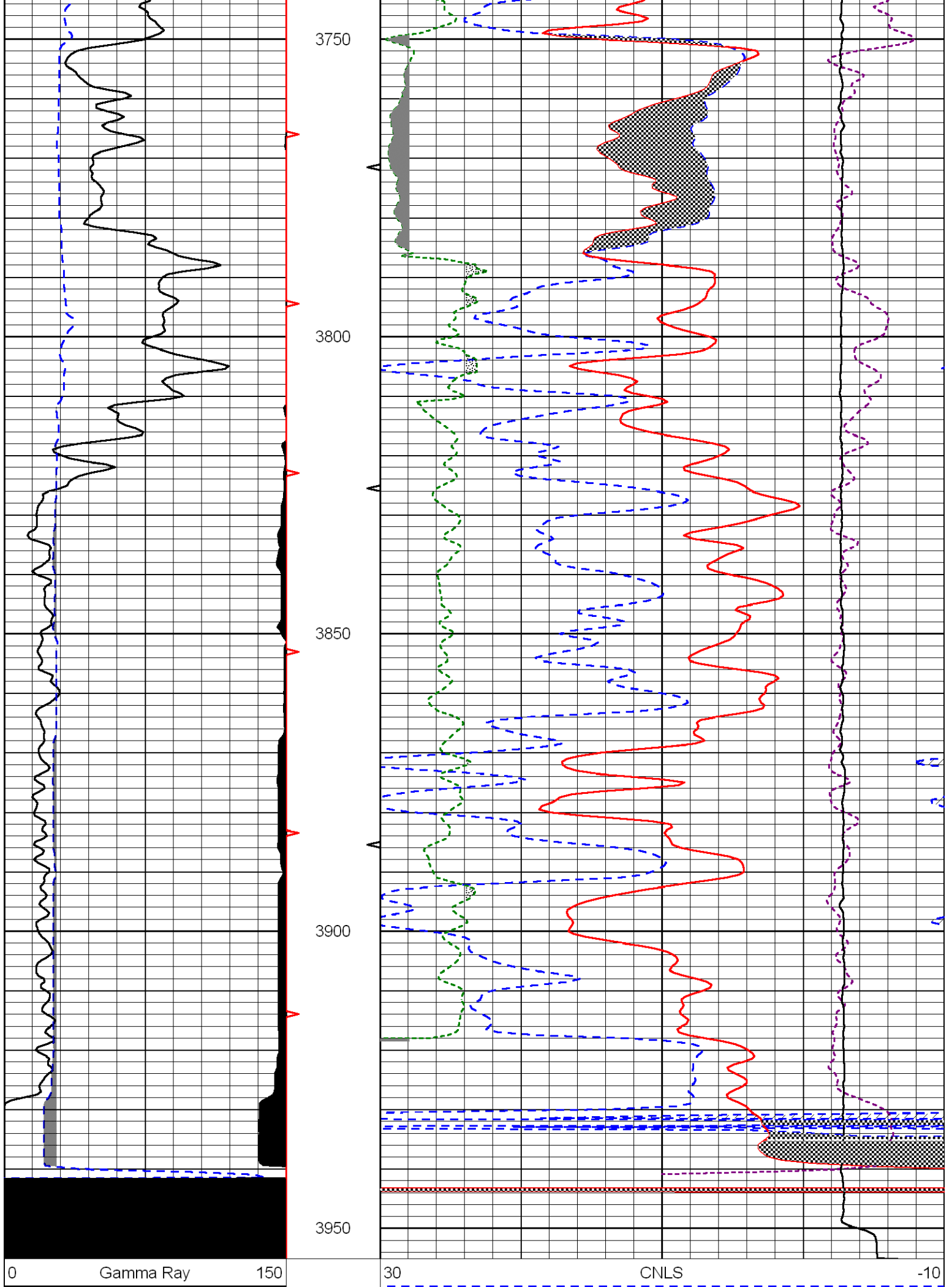
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 Dataset Pathname: DIL/tdistk
 Presentation Format: cndlspec
 Dataset Creation: Sun Apr 01 15:29:56 2012
 Charted by: Depth in Feet scaled 1:240











6 Caliper (GAPI) 16

30	Compensated Density (2.71 ma)			-10	
2.625	DGA	3.425	-0.25	Correction	0.25
10000	Line Tension			0	



DIGITAL LOG (785) 625-3858

Microresistivity Log

API No. 15-051-26,270-00-00

Company TDI, Inc.
 Well Wiesner Unit No. 1
 Field Ellis Southeast
 County Ellis State Kansas

Location NE NE SW
 2310' FSL & 2310 FWL
 Sec: 5 Twp: 13 S Rge: 20 W

Other Services
 CNL/CDL
 DIL

Permanent Datum Ground Level Elevation 2153
 Log Measured From Kelly Bushing 9 Ft. Above Perm. Datum
 Drilling Measured From Kelly Bushing

Elevation
 K.B. 2162
 D.F. 2153
 G.L. 2153

Date	4/1/2012
Run Number	Two
Depth Driller	3950
Depth Logger	3949
Bottom Logged Interval	3948
Top Log Interval	3100
Casing Driller	8.625 @ 201
Casing Logger	202
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	3200
Density / Viscosity	9.4 49
pH / Fluid Loss	10.0 8.0
Source of Sample	Flowline
Rm @ Meas. Temp	1.1 @ 80
Rmf @ Meas. Temp	.82 @ 80
Rmc @ Meas. Temp	1.48 @ 80
Source of Rmf / Rmc	Charts
Rm @ BHT	.75 @ 117
Operating Rig Time	4 Hours
Max Rec. Temp. F	117
Equipment Number	91
Location	Hays
Recorded By	D.Kerr
Witnessed By	Herb Deines

<<< Fold Here >>>

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

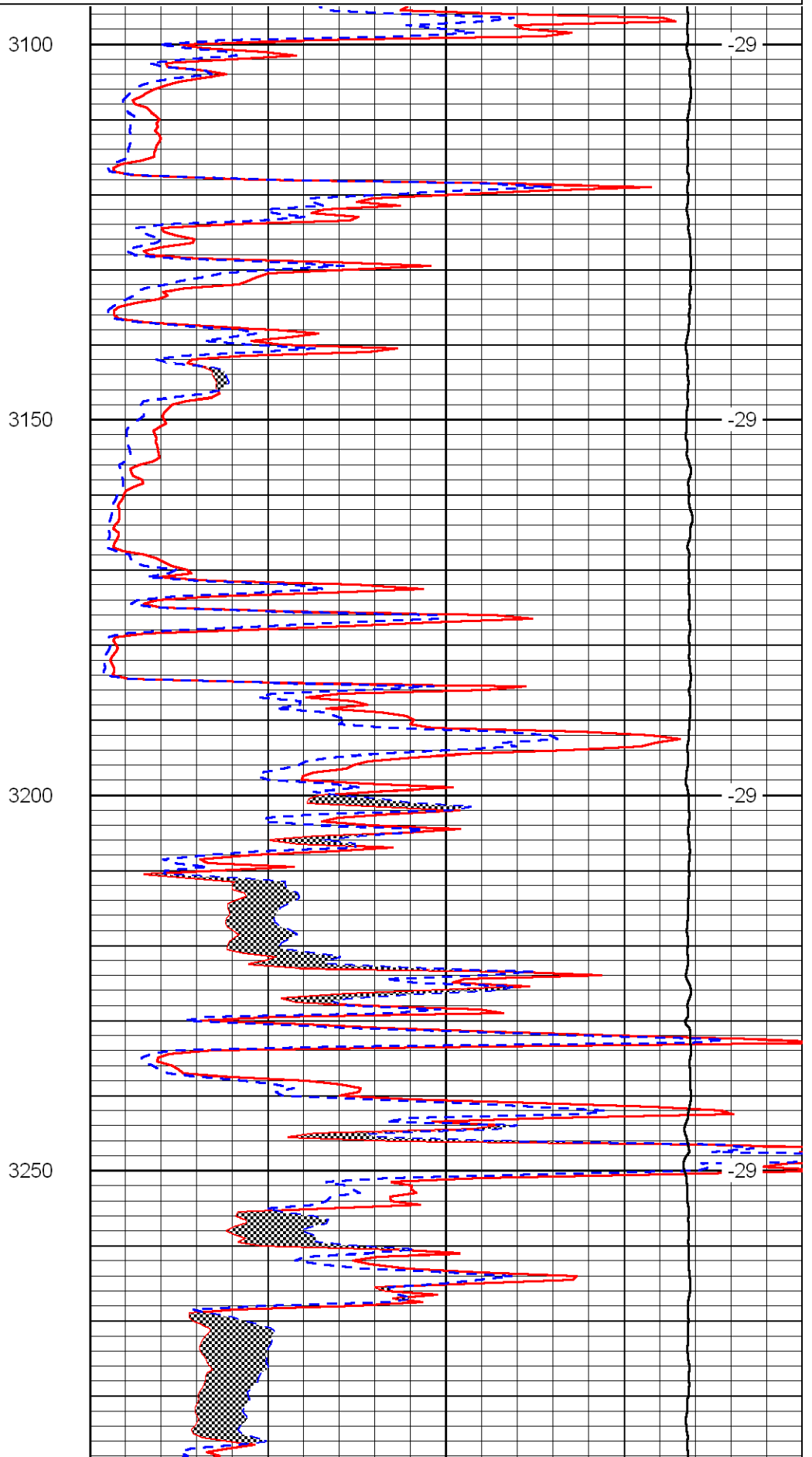
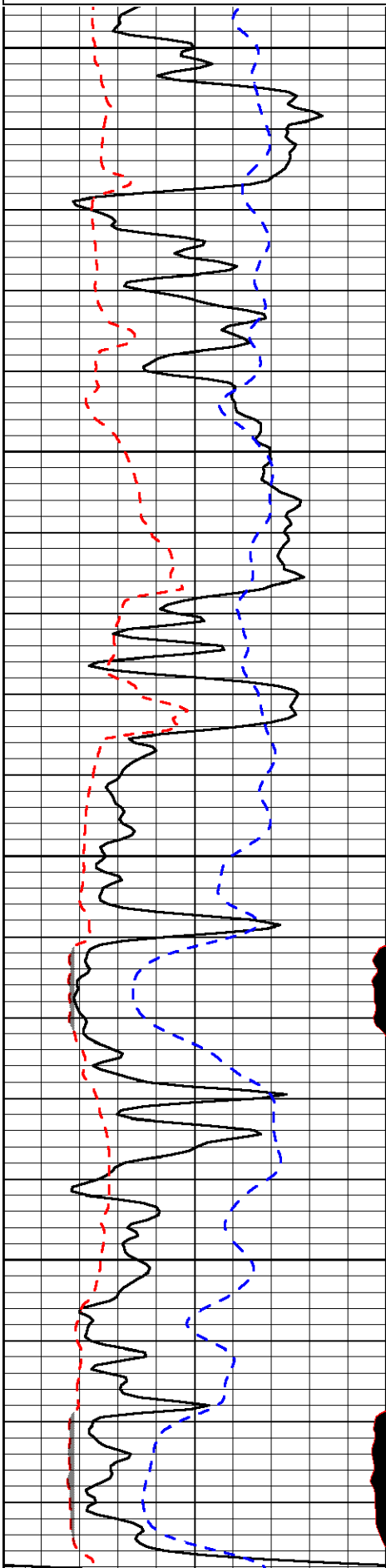
Thank you for using Log-Tech, Inc.
 (785) 625-3858

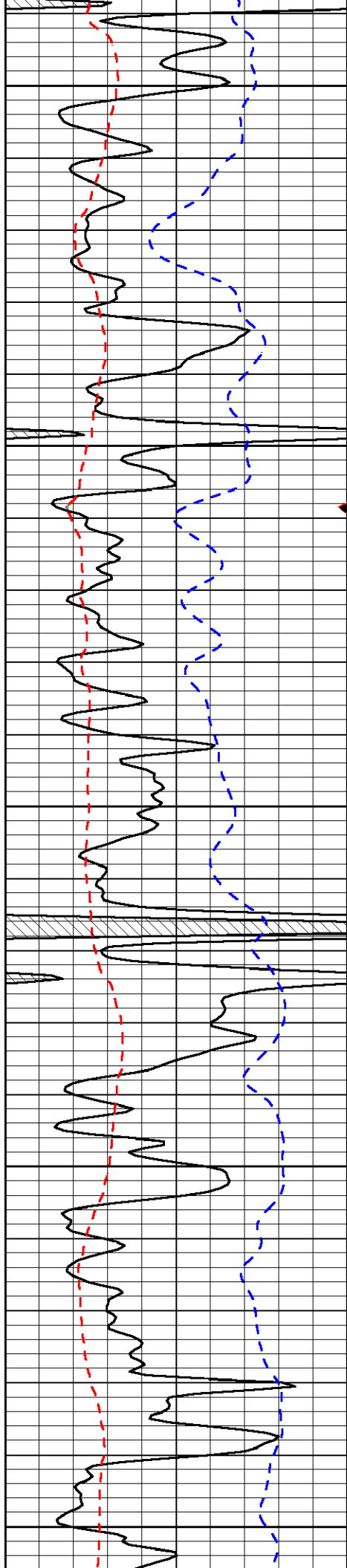
Ellis KS, West on 3rd ST,
 Keep Right at the Y,
 North Into at Gate

Database File: tdi_04012hd.db
 Dataset Pathname: DIL/tdistk
 Presentation Format: micro
 Dataset Creation: Sun Apr 01 15:29:56 2012
 Charted by: Depth in Feet scaled 1:240

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

0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
10000	Line Weight	0
		LSPD





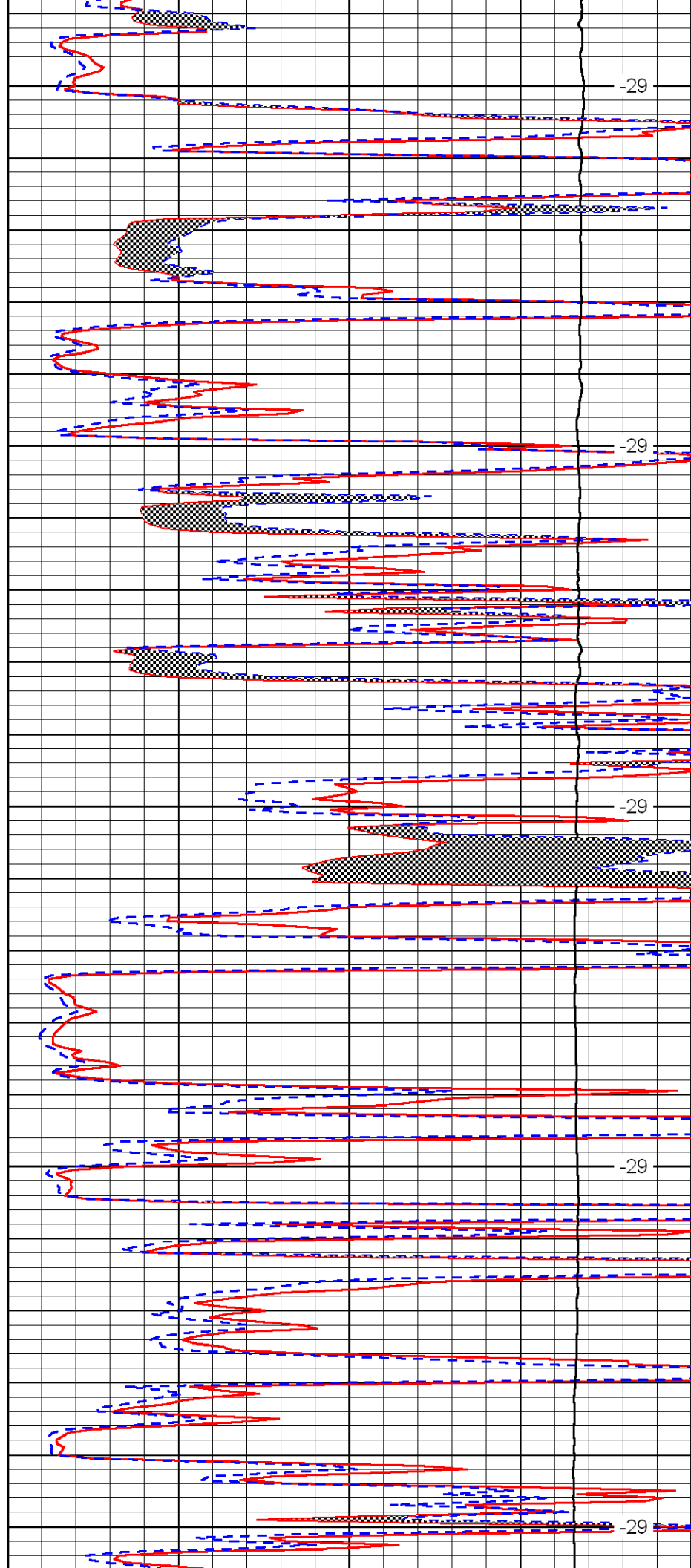
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3400

3450

3500



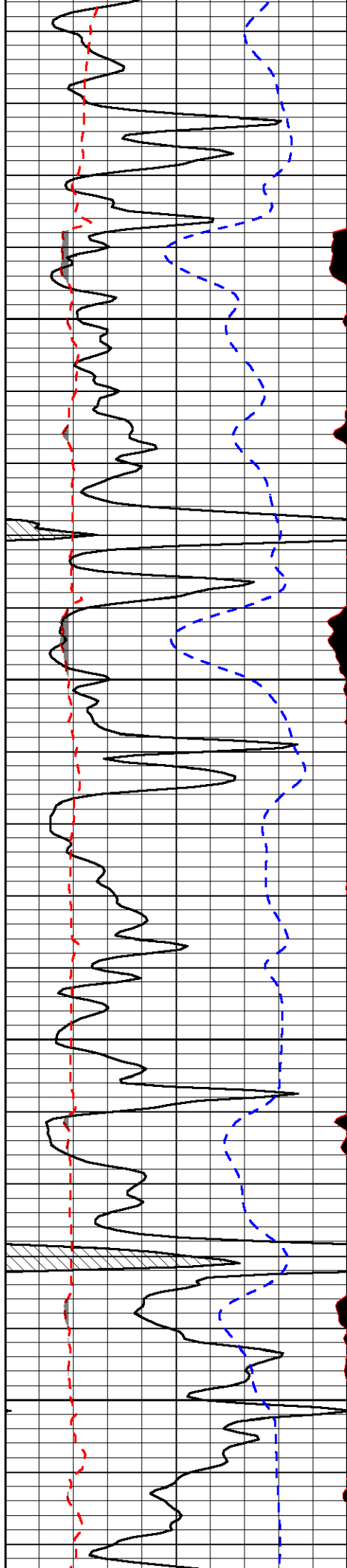
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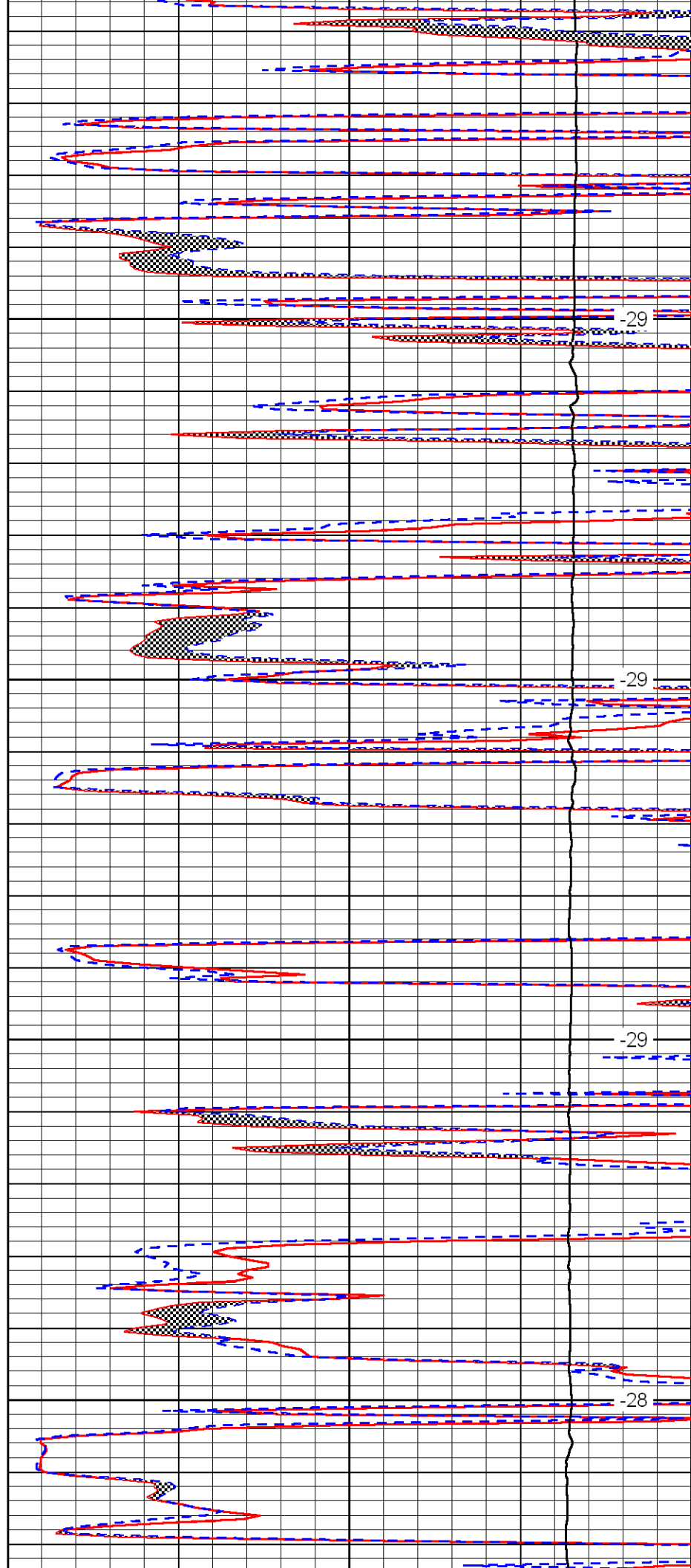


3550

3600

3650

3700

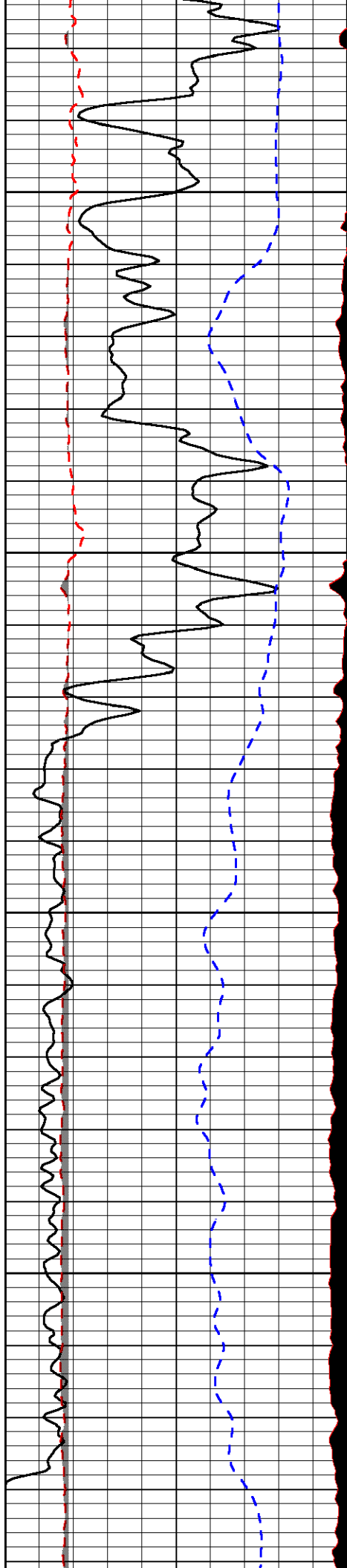


-29

-29

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-28

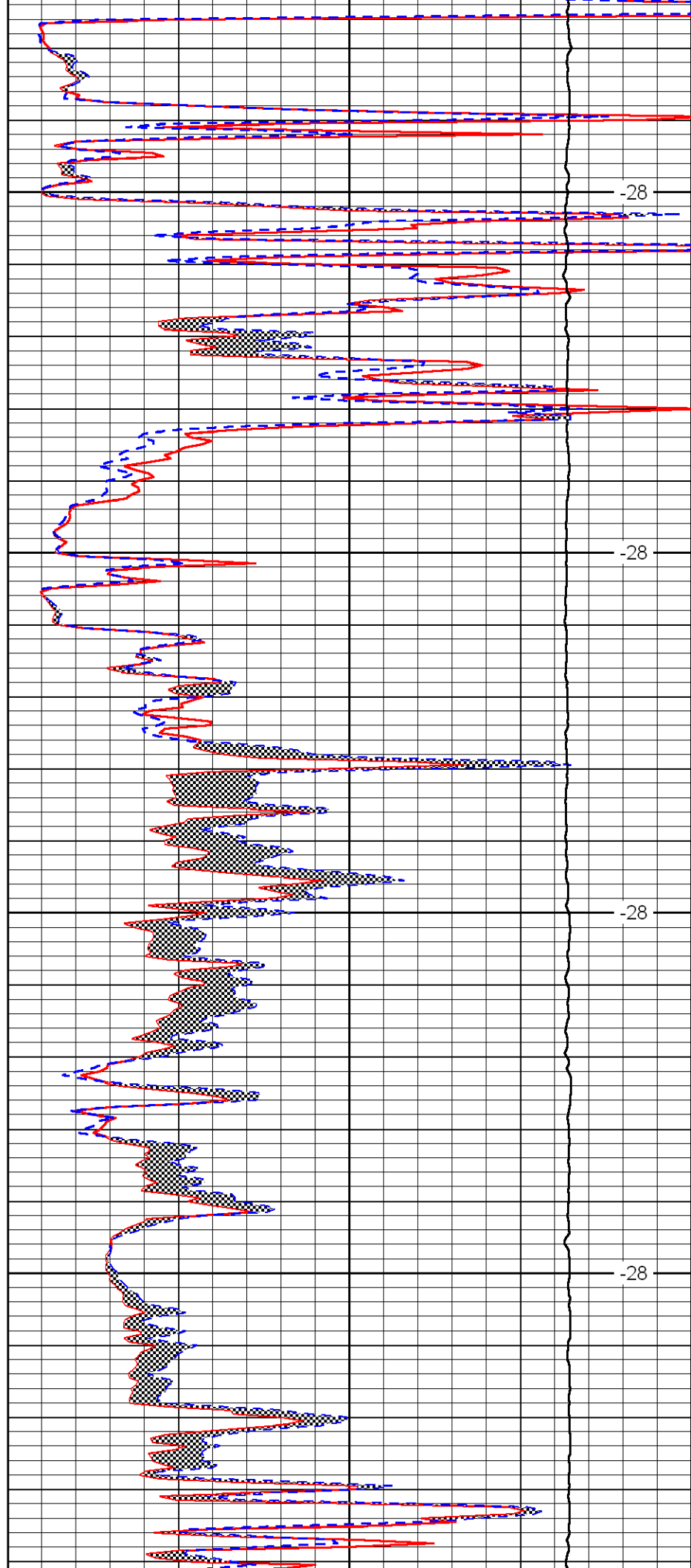


3750

3800

3850

3900

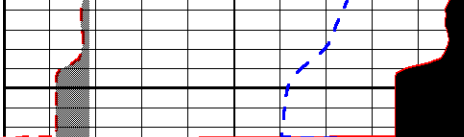


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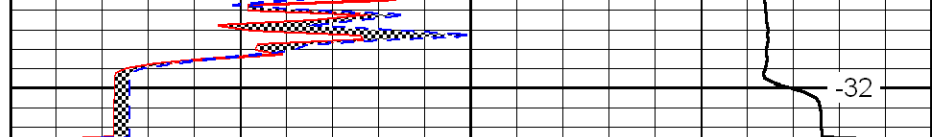
-28

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-28



3950



-32

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

0	Micro Inverse 1 X 1	40
0	Micro Normal 2''	40
10000	Line Weight	0

LSPD

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

May 22, 2012

Tom Denning
TDI, Inc.
1310 BISON RD
HAYS, KS 67601-9696

Re: ACO1
API 15-051-26270-00-00
Wiesner Unit 1
SW/4 Sec.05-13S-20W
Ellis County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Tom Denning