KOLAR Document ID: 1328835

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 # 34975

Name: StrataKan Exploration, LLC

Address 1: 204 W. MILL ST.

Address 2:

City: PLAINVILLE State: KS Zip: 67663 +

Contact Person: Justin R. Prater

Phone: (785) 432-0861

CONTRACTOR: License # 33575

Name: WW Drilling, LLC

Wellsite Geologist: Jason Alm

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 #:

10/01/2016	10/07/2016	11/02/2016
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-185-23967-00-00

Spot Description:

E2 - NW - NE - NW Sec. 22 Twp. 22 S. R. 13 ☐ East ☑ West

330 Feet from ☑ North / ☐ South Line of Section

1850 Feet from ☐ East / ☑ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☑ NW ☐ SE ☐ SW

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

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

County: Stafford

Lease Name: ANDREWS "B" Well #: 22-1

Field Name:

Producing Formation: Arbuckle

Elevation: Ground: 1890 Kelly Bushing: 1895

Total Vertical Depth: 4010 Plug Back Total Depth: 3842

Amount of Surface Pipe Set and Cemented at: 692 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: 1800 ppm Fluid volume: 400 bbls

Dewatering method used: Evaporated

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: 01/19/2017
☑ **Confidential Release Date:** 01/19/2019
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ I ☐ II ☐ III **Approved by:** Karen Ritter **Date:** 01/23/2017

Operator Name: StrataKan Exploration, LLC　Lease Name: ANDREWS "B"　Well #: 22-1

Sec. 22 Twp. 22 S. R. 13 ☐ East ☑ West　County: Stafford

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).

	Yes	No
Drill Stem Tests Taken *(Attach Additional Sheets)*	☑	☐
Samples Sent to Geological Survey	☑	☐
Cores Taken	☐	☑
Electric Log Run	☑	☐
Geologist Report / Mud Logs	☐	☐

List All E. Logs Run:

CNL/CDL
DIL
MEL

☑ Log　Formation (Top), Depth and Datum　☐ Sample

Name	Top	Datum
Stone Corral	747	+1148
Lansing	3403	-1508
Arbuckle	3807	-1912

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	692	Common	450	3%CC2%Gel
Production	7.875	5.5	15.5	3888	Common	160	10%Salt 5%Gilsonite

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: ☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
	-			
	-			

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: 12/01/2016

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	6		200		20

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION: ☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*

PRODUCTION INTERVAL: Top 3772-3809 Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: 2.875　Set At: 3787.55　Packer At: n/a

Form	ACO1 - Well Completion
Operator	StrataKan Exploration, LLC
Well Name	ANDREWS "B" 22-1
Doc ID	1328835

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
6	3826-28	Shot	3826-28
	3822	CIBP	3822
	3816	CIBP	3816
6	3772-78	500 gal 7.5% MCA followed by 314,582 SCF Nitrogen 20,000# 20/40 sand	3772-78
6	3807-09	Shot	3807-09

Form	ACO1 - Well Completion
Operator	StrataKan Exploration, LLC
Well Name	ANDREWS "B" 22-1
Doc ID	1328835

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	692	Common	450	3%CC2% Gel
Production	7.875	5.5	15.5	3888	Common	160	10%Salt 5%Gilsonite

Geologic Report

Drilling Time and Sample Log

Hardrock Consulting, Inc.

Operator **StrataKan Exploration, LLC.**			Elevation KB 1895' DF GL 1890'
Lease **Andrews B**		No. **22-1**	
API # **15-185-23967-0000**			Casing Record Surface 8 5/8" @ 681' Production 5 1/2" @ 3888'
Field **Kenilworth**			
Location **330' FNL & 1850' FWL**			
Sec. **22**	Twp. **22s**	Rge. **13w**	Electrical Surveys CNL/CDL, DIL, MEL
County **Stafford**	State **Kansas**		

Formation	Log Tops	Sample Tops	Struct Comp
Anhydrite	747' +1148	748' +1147	+4
Base	773' +1126	771' +1124	+5
Topeka	2951' -1056	2952' -1057	-1
Heebner	3252' -1357	3253' -1358	-2
Toronto	3271' -1376	3272' -1377	+1
Douglas	3286' -1391	3288' -1393	FL
Brown Lime	3383' -1488	3384' -1489	-1
Lansing	3403' -1508	3405' -1510	FL
BKC	3625' -1730	3626' -1731	+3
Viola	3691' -1796	3694' -1799	-3
Simpson	3748' -1853	3750' -1855	FL
Arbuckle	3807' -1912	3811' -1916	-3
Total Depth	4009' -2114	4010' -2115	

Reference Well For Structural Comparison **StrataKan Exploration, LLC. Andrews #22-1**
950' FNL & 2050' FWL Sec. 22 T22s R13w Stafford Co. Kansas

Drilling Contractor		WW Drilling Co. Rig #8		
Commenced	9-29-2016	Completed		10-8-2016
Samples Saved From		2900'	To	RTD
Drilling Time Kept From		2850'	To	RTD
Samples Examined From		2900'	To	RTD
Geological Supervision From		2900'	To	RTD

Displacement 2800' Mud Type Chemical

Summary and Recommendations

The location for the Andrews B #22-1 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Three Drill Stem Tests were conducted, one of which recovered commercial amounts of oil from the Simpson Formation. Once commercial production ceases the well could be converted into a salt water disoposal. After all gathered data had been examined the decision was made to run 5 1/2 inch production casing to further evaluate the Andrews B #22-1 well.

Packer Shoe set @ 3888'

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.

Geological Report

Andrews B #22-1
330' FNL & 1850' FWL
Sec. 22 T22s R13w
Stafford County, Kansas

Hardrock Consulting, Inc.

StrataKan Exploration, LLC.

General Data

Well Data:	StrataKan Exploration, LLC. Andrews B #22-1 330' FNL & 1850' FWL Sec. 22 T22s R13w Stafford County, Kansas API # 15-185-23967-0000
Drilling Contractor:	WW Drilling Co. Rig #8
Geologist:	Jason T Alm
Spud Date:	September 29, 2016
Completion Date:	October 8, 2016
Elevation:	1890' Ground Level 1895' Kelly Bushing
Directions:	St. John KS, North on Hwy 281 9 mi. East 3/8 mi. South into location.
Casing:	681' 8 5/8" surface casing 3888' 5 1/2" production casing
Samples:	10' wet and dry, 2900' to RTD
Drilling Time:	2850' to RTD
Electric Logs:	Pioneer Energy Services "Tim Martin" CNL/CDL, DIL, MEL
Drillstem Tests:	Three, Trilobite Testing "Leal Cason"
Problems:	None
Remarks:	After DST #3 background gas was too high to see any formation gas from the Arbuckle. Packer Shoe set @ 3888'.

Formation Tops

Formation	StrataKan Exploration Andrews B #22-1 Sec. 22 T22s R13w 330' FNL & 1850' FWL
Anhydrite	**747' +1148**
Base	**773' +1126**
Topeka	**2951' -1056**
Heebner	**3252' -1357**
Toronto	**3271' -1376**
Douglas	**3286' -1391**
Brown Lime	**3383' -1488**
Lansing	**3403' -1508**
BKC	**3625' -1730**
Viola	**3691' -1796**
Simpson	**3748' -1853**
Arbuckle	**3807' -1912**
LTD	**4009' -2114**
RTD	**4010' -2115**

Sample Zone Descriptions

LKC "I-zone" **(3542', -1647):** **Covered in DST #1**

Ls – Fine crystalline, oolitic with fair oolicastic and scattered oomoldic porosity, light to fair scattered oil stain, slight show of free oil when broken, light odor, 46 units hotwire.

LKC "J-zone" **(3556', -1661):** **Covered in DST #1**

Ls – Fine crystalline, oolitic packstone with poor to fair oomoldic and oolicastic porosity, light scattered oil stain in porosity, no show of free oil, light odor, 19 units hotwire.

LKC "K-zone" **(3584', -1689):** **Covered in DST #1**

Ls – Fine crystalline, oolitic packstone with fair to good oomoldic porosity, light to good oil stain with scattered good saturation, fair to good show of free oil, good odor, bright yellow fluorescents, 125 units hotwire.

Viola **(3691’, -1796):** **Covered in DST #2**

Chert – Sharp, angular with fair to good scattered pinpoint vuggy porosity, light to good oil stain in porosity and scattered good saturation, slight show of free oil, good odor, dull yellow fluorescents, poor to fair cut, 31-72 units hotwire.

Simpson Sand **(3770’, -1875):** **Covered in DST #3**

Ss – Quartz, clear to slightly frosted, fine to medium grained, sub-rounded to sub-angular, poor to fair cementation, fair to well sortedness with fair inter-granular porosity, light spotted to heavy oil stain in cluster with scattered heavy saturation, fair show of free oil in cluster, gas bubbles on break, fair to good spotted fluorescents, excellent cut, fair to good odor, 195 units hotwire.

Arbuckle **(3807’, -1912):** **Not Tested**

Dolo – Fine to medium crystalline to rhombic crystalline with fair to good oomoldic, inter-crystalline and vuggy porosity, heavy oil stain and saturation, good show of free oil, good odor, free oil on sample cup.

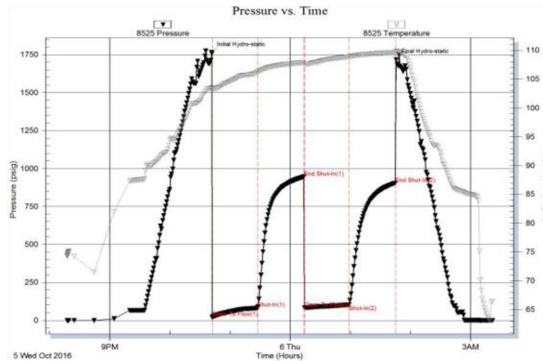
Drill Stem Tests

Trilobite Testing, Inc.
"Leal Cason"

DST #1 LKC I thru K zones

Interval (3540' – 3610') Anchor Length 70'

IHP	– 1763 #	
IFP	– 45" – Built to 4 in.	21-83 #
ISI	– 45" – Dead	947 #
FFP	– 45" – Built to 2 in.	83-102 #
FSI	– 45" – Dead	905 #
FHP	– 1717 #	
BHT	– 109˚F	

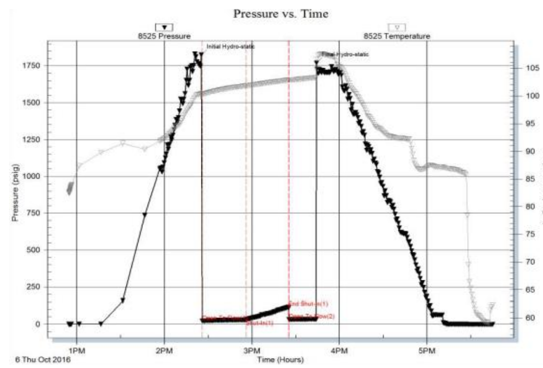


Recovery: 180' Mud

DST #2 Viola

Interval (3624' – 3740') Anchor Length 116'

IHP	– 1823 #	
IFP	– 30" – Died	22-31 #
ISI	– 30" – Dead	116 #
FFP	– 15" – Dead	33 #
FHP	– 1770 #	
BHT	– 104˚F	

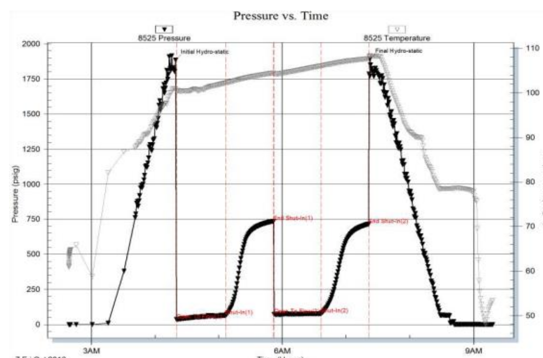


Recovery: 5' Mud

DST #3 Simpson

Interval (3740' – 3790') Anchor Length 50'

IHP	– 1884 #	
IFP	– 45" – Built to 3 ½ in.	35-65 #
ISI	– 45" – Dead	735 #
FFP	– 45" – Built to 1 in.	72-77 #
FSI	– 45" – Dead	715 #
FHP	– 1891 #	
BHT	– 108˚F	



Recovery: 120' GOWCM 10% Oil, 12% Water

Structural Comparison

Formation	StrataKan Exploration Andrews B #22-1 Sec. 22 T22s R13w 330' FNL & 1850' FWL	L.K. Parrish J Wes Hahm Sec. 22 T22s R13w NE NE NW		StrataKan Exploration Andrews #22-1 Sec. 22 T22s R13w 950' FNL & 2050' FWL	
Anhydrite	**747' +1148**	745' +1155	**(-7)**	751' +1144	**(+4)**
Base	**773' +1126**	NA	**NA**	774' +1121	**(+5)**
Topeka	**2951' -1056**	NA	**NA**	2950' -1055	**(-1)**
Heebner	**3252' -1357**	3254' -1354	**(-3)**	3254' -1359	**(-1)**
Toronto	**3271' -1376**	NA	**NA**	3272' -1377	**(+1)**
Douglas	**3286' -1391**	NA	**NA**	3286' -1391	**FL**
Brown Lime	**3383' -1488**	3384' -1484	**(-4)**	3382' -1487	**(-1)**
Lansing	**3403' -1508**	NA	**NA**	3403' -1508	**FL**
BKC	**3625' -1730**	NA	**NA**	3628' -1733	**(+3)**
Viola	**3691' -1796**	3699' -1799	**(+3)**	3704' -1793	**(-3)**
Simpson	**3748' -1853**	3750' -1850	**(-3)**	3748' -1853	**FL**
Arbuckle	**3807' -1912**	3808' -1908	**(-4)**	3804' -1909	**(-3)**

Summary

The location for the Andrews B #22-1 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Three Drill Stem Tests were conducted, one of which recovered commercial amounts of oil from the Simpson Formation. Once commercial production ceases the well could be converted into salt water disoposal. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Andrews B #22-1 well.

Recommended Perforations

Primary:

Arbuckle 2nd Break	**3828' – 3831'**	**Not Tested**
Arbuckle	**3809' – 3812'**	**Not Tested**

Secondary:

Simpson Sand	**3772' – 3778'**	**DST #3**

Before Abandonment:

LKC K	**3584' – 3590'**	**DST #1**
LKC I	**3543' – 3547'**	**DST #1**

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.

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. 1791

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-1-16	22	22	13	Stafford	KS		6:30 A.M.

Location 281 & K-19 2S 3/8E Sinto

Lease Andrews B | Well No. 2-21

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.

Contractor WW #8
Type Job Surface
Hole Size 12 1/4 | T.D. 692
Csg. 8-5/8 | Depth 692
Tbg. Size | Depth
Tool | Depth
Cement Left in Csg. 30 | Shoe Joint 30'
Meas Line | Displace 42 BBL

Charge To Stratakan
Street
City | State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 450 60/40 3% 2 1/4# FS

EQUIPMENT

	No.		
Pumptrk	18	Cementer	Craig
		Helper	
Bulktrk		Driver	Rick
		Driver	
Bulktrk	19	Driver	Nick
		Driver	

Common 270
Poz. Mix 180
Gel. 9
Calcium 17
Hulls
Salt
Flowseal 225#
Kol-Seal
Mud CLR 48
CFL-117 or CD110 CAF 38
Sand
Handling 470
Mileage

JOB SERVICES & REMARKS

Remarks:
Rat Hole
Mouse Hole
Centralizers
Baskets
D/V or Port Collar

8-5/8 on bottom Est. Circulation.
Mix 450sk + Displace Plug
Cement Circulated!

FLOAT EQUIPMENT

Guide Shoe 8-5/8 Rubber Plug
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down

Pumptrk Charge Long Surface
Mileage 17
Tax
Discount
Total Charge

X
Signature

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. 3021

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-8-16	22	22	13	Stafford	KS		1:00pm

Location 281 + K19 - 2S, 1/2E, S/Into

Lease Andrews B"	Well No. 22-1	Owner	
Contractor WW 8		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 Production			
Hole Size 7 7/8"	T.D. 4010'	Charge To Stratakan	
Csg. 5 1/2" New 15.50#	Depth 3888.00'	Street	
Tbg. Size	Depth 3888'	City	State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg. 44'	Shoe Joint 44'	Cement Amount Ordered 190 Com 10% Salt 5% Gilsonite	
Meas Line	Displace 91 BBLS	500 gal mud Clear 48 91½ BBS KCL	

EQUIPMENT

Pumptrk 18	No. Cementer Rick	
	Helper	
Bulktrk 14	No. Driver Tim	
	Driver	
Bulktrk Dili	No. Driver	
	Driver Shane	

Common	190
Poz. Mix	
Gel.	
Calcium	
Hulls	KCl 10 gal
Salt	17
Flowseal	
Kol-Seal	950 #
Mud CLR 48	500 gal
CFL-117 or CD110 CAF 38	
Sand	
Handling	
Mileage	

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers 1-6

Baskets 2

D/V or Port Collar pipe on Bottom Break
Circulation for 15 min. Drop ball
Set packer shoe w/ # Break
Circulation pump 500 gal mud Clear
48, ~~[illegible]~~ plug Rathole w/30sx
shut down wash pump +
lines Released plug + Displaced
w/ 91½ BW Released + held
w/ KCL
Lift pressure 550 #
Land plug to 1500 #

Float Held

FLOAT EQUIPMENT

Guide Shoe	packer shoe
Centralizer	6
Baskets	1
AFU Inserts	
Float Shoe	
Latch Down	1
Pumptrk Charge	prod String
Mileage	17
Tax	
Discount	
Total Charge	

X
Signature [signature]

DRILL STEM TEST REPORT

Prepared For: **StrataKan Exploration**

204 W Mill St
Plainville, KS 67663

ATTN: Jason Alm

Andrews B #22-1

22-22S-13W Stafford,KS

Start Date: 2016.10.05 @ 20:17:18

End Date: 2016.10.06 @ 03:22:18

Job Ticket #: 55421 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2016.10.10 @ 08:53:00

DRILL STEM TEST REPORT

StrataKan Exploration	**22-22S-13W Stafford,KS**
204 W Mill St Plainville, KS 67663	**Andrews B #22-1**
	Job Ticket: 55421 **DST#: 1**
ATTN: Jason Alm	Test Start: 2016.10.05 @ 20:17:18

GENERAL INFORMATION:

Formation: **LKC "I - K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:42:03
Time Test Ended: 03:22:18

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74

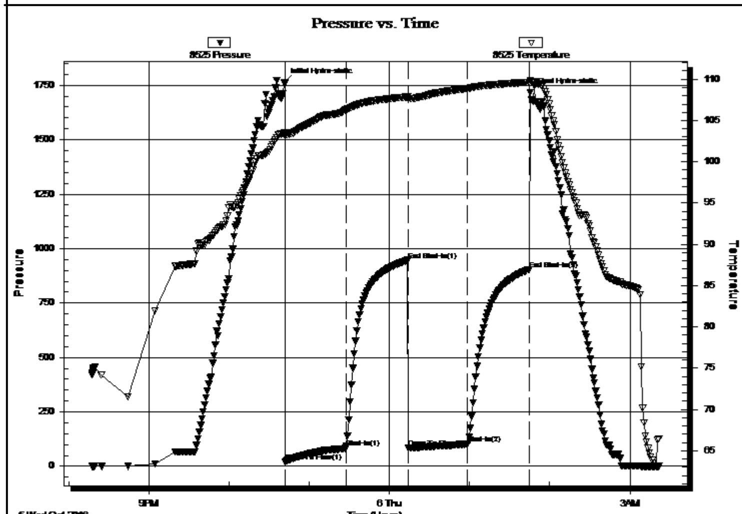
Interval: 3540.00 ft (KB) To 3610.00 ft (KB) (TVD)
Total Depth: 3610.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1895.00 ft (KB)
1890.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8525 **Inside**

Press@RunDepth:	102.38 psig @	3541.00 ft (KB)		Capacity:	8000.00 psig
Start Date:	2016.10.05	End Date:	2016.10.06	Last Calib.:	2016.10.06
Start Time:	20:17:19	End Time:	03:22:18	Time On Btm:	2016.10.05 @ 22:41:18
				Time Off Btm:	2016.10.06 @ 01:45:33

TEST COMMENT: IF: Weak Blow Built to 4"
ISI: No Blow Back
FF: Weak Blow , Built to 2"
FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1762.78	103.47	Initial Hydro-static
1	21.61	103.19	Open To Flow (1)
46	83.25	106.29	Shut-In(1)
93	946.56	107.88	End Shut-In(1)
93	83.93	107.64	Open To Flow (2)
138	102.38	108.89	Shut-In(2)
184	904.51	109.62	End Shut-In(2)
185	1716.82	109.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Mud	1.45

Gas Rates

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

DRILL STEM TEST REPORT

StrataKan Exploration

204 W Mill St
Plainville, KS 67663

ATTN: Jason Alm

22-22S-13W Stafford,KS

Andrews B #22-1

Job Ticket: 55421 **DST#: 1**

Test Start: 2016.10.05 @ 20:17:18

GENERAL INFORMATION:

Formation:	**LKC "I - K"**		
Deviated:	No Whipstock: ft (KB)	Test Type:	Conventional Bottom Hole (Initial)
Time Tool Opened:	22:42:03	Tester:	Leal Cason
Time Test Ended:	03:22:18	Unit No:	74

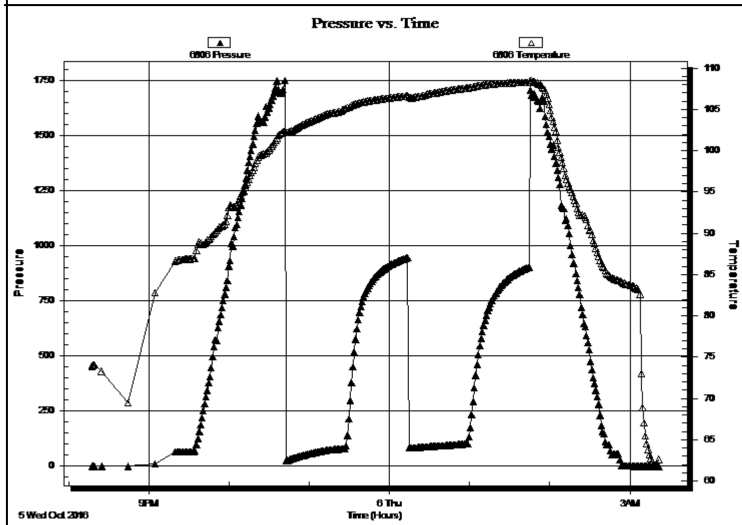
Interval: 3540.00 ft (KB) To 3610.00 ft (KB) (TVD)
Total Depth: 3610.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1895.00 ft (KB)
1890.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6806 **Outside**

Press@RunDepth:	psig @ 3541.00 ft (KB)			Capacity:	8000.00 psig
Start Date:	2016.10.05	End Date:	2016.10.06	Last Calib.:	2016.10.06
Start Time:	20:17:19	End Time:	03:22:03	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: IF: Weak Blow Built to 4"
ISI: No Blow Back
FF: Weak Blow , Built to 2"
FSI: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Mud	1.45

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

StrataKan Exploration

204 W Mill St
Plainville, KS 67663

ATTN: Jason Alm

22-22S-13W Stafford,KS

Andrews B #22-1

Job Ticket: 55421 **DST#: 1**

Test Start: 2016.10.05 @ 20:17:18

Tool Information

Drill Pipe:	Length:	3424.00 ft	Diameter:	3.80 inches	Volume:	48.03 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	118.00 ft	Diameter:	2.25 inches	Volume:	0.58 bbl	
					Total Volume:	48.61 bbl	

Tool Weight:	2100.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	50000.00 lb
Tool Chased	ft
String Weight: Initial	38000.00 lb
Final	38000.00 lb

Drill Pipe Above KB:	21.00 ft		
Depth to Top Packer:	3540.00 ft		
Depth to Bottom Packer:	ft		
Interval betw een Packers:	70.00 ft		
Tool Length:	89.00 ft		
Number of Packers:	2	Diameter:	6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3526.00		
Hydraulic tool	5.00			3531.00		
Packer	5.00			3536.00	19.00	Bottom Of Top Packer
Packer	4.00			3540.00		
Stubb	1.00			3541.00		
Recorder	0.00	8525	Inside	3541.00		
Recorder	0.00	6806	Outside	3541.00		
Perforations	7.00			3548.00		
Change Over Sub	1.00			3549.00		
Drill Pipe	32.00			3581.00		
Change Over Sub	1.00			3582.00		
Perforations	25.00			3607.00		
Bullnose	3.00			3610.00	70.00	Bottom Packers & Anchor
Total Tool Length:	**89.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

StrataKan Exploration

204 W Mill St
Plainville, KS 67663

ATTN: Jason Alm

22-22S-13W Stafford,KS

Andrews B #22-1

Job Ticket: 55421 **DST#: 1**

Test Start: 2016.10.05 @ 20:17:18

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:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

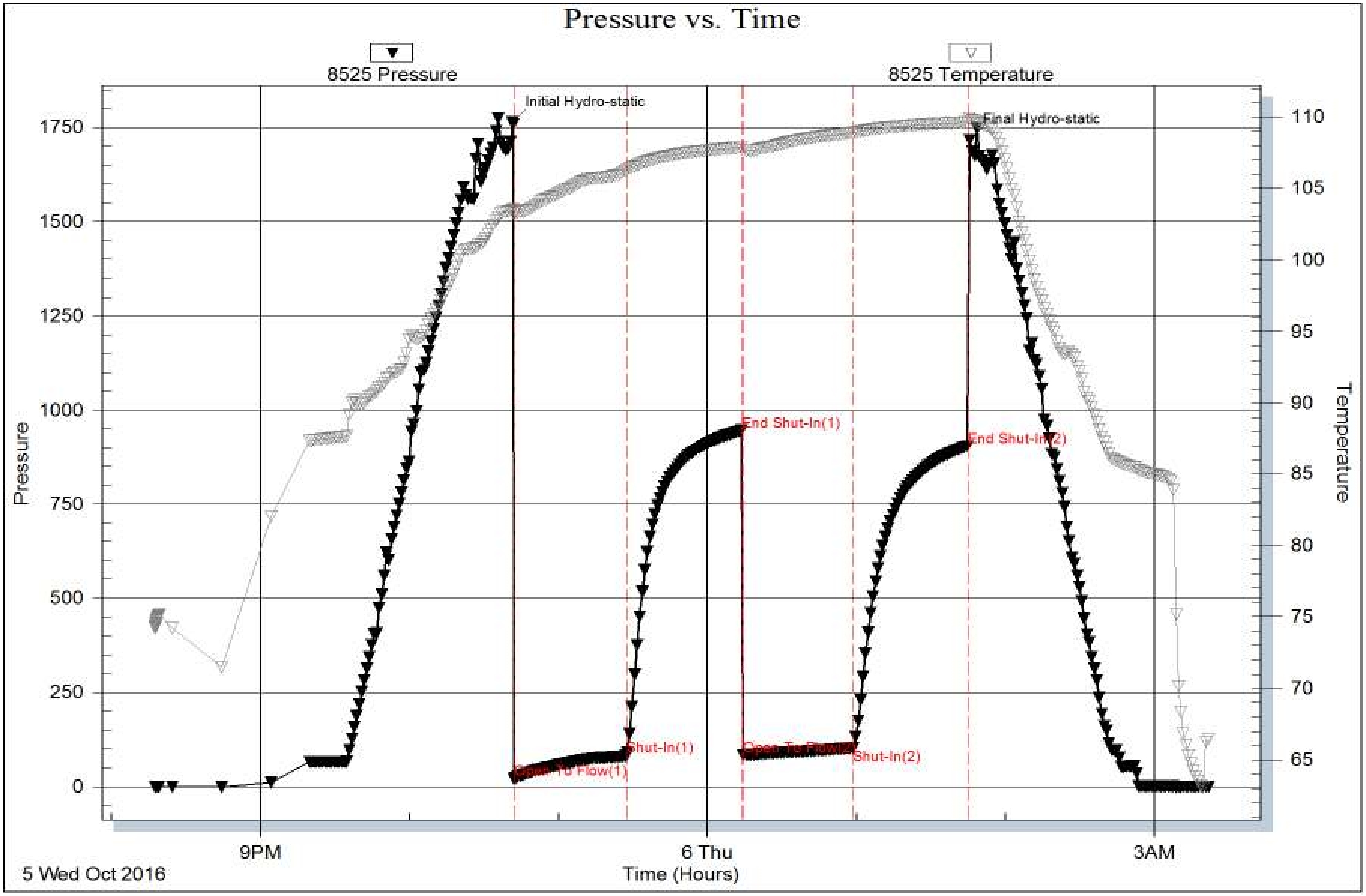
Length ft	Description	Volume bbl
180.00	Mud	1.450

Total Length: 180.00 ft Total Volume: 1.450 bbl

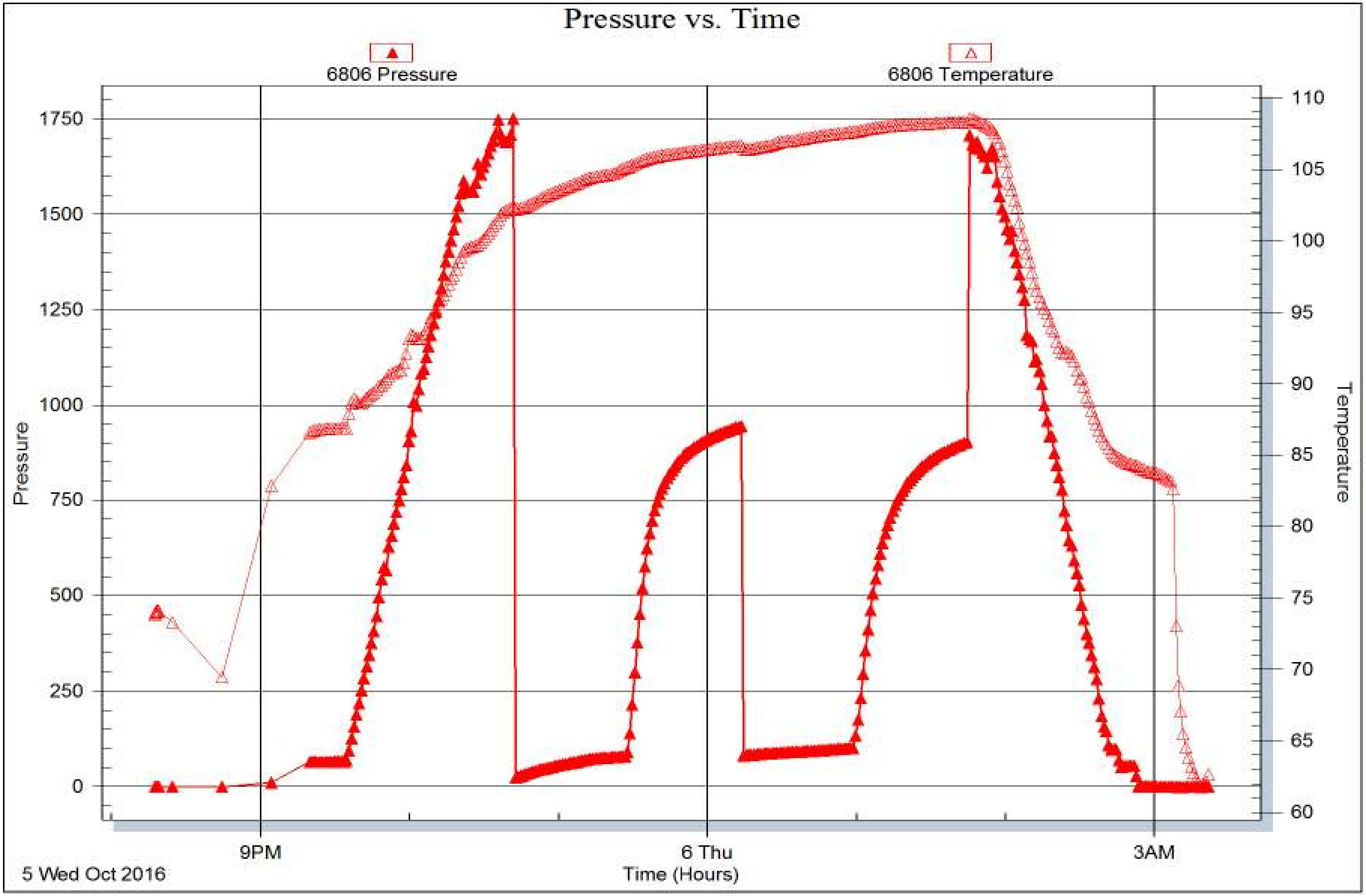
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
8525 Pressure
8525 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
110
105
100
95
90
85
80
75
70
65
9PM
6 Thu
3AM
5 Wed Oct 2016
Time (Hours)

Serial #: 6806 **Outside** StrataKan Exploration Andrews B #22-1 DST Test Number: 1



DRILL STEM TEST REPORT

Prepared For: **StrataKan Exploration**

204 W Mill St
Plainville, KS 67663

ATTN: Jason Alm

Andrews B #22-1

22-22S-13W Stafford,KS

Start Date: 2016.10.06 @ 12:54:29
End Date: 2016.10.06 @ 17:44:44
Job Ticket #: 55422 DST #: 2

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

Printed: 2016.10.10 @ 08:52:35

DRILL STEM TEST REPORT

StrataKan Exploration

204 W Mill St
Plainville, KS 67663

ATTN: Jason Alm

22-22S-13W Stafford,KS

Andrews B #22-1

Job Ticket: 55422 **DST#: 2**

Test Start: 2016.10.06 @ 12:54:29

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:25:44
Time Test Ended: 17:44:44

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 3624.00 ft (KB) To 3740.00 ft (KB) (TVD)
Total Depth: 3740.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1895.00 ft (KB)
1890.00 ft (CF)
KB to GR/CF: 5.00 ft

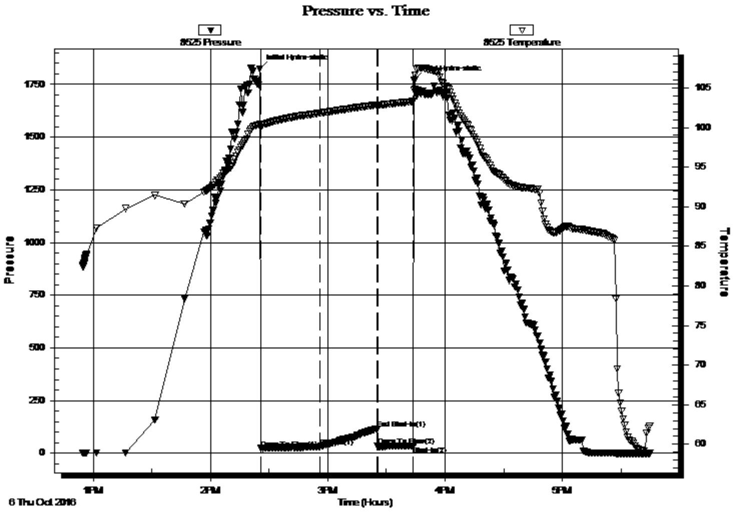
Serial #: 8525 **Inside**

Press@RunDepth: 30.66 psig @ 3625.00 ft (KB)
Start Date: 2016.10.06 End Date: 2016.10.06
Start Time: 12:54:30 End Time: 17:44:44

Capacity: 8000.00 psig
Last Calib.: 2016.10.06
Time On Btm: 2016.10.06 @ 14:25:14
Time Off Btm: 2016.10.06 @ 15:44:14

TEST COMMENT: IF: Weak 1/2" Blow , Died Off to Surface Blow
ISI: No Blow Back
FF: Weak Surface Blow , Dead @ 6 minutes, Pulled Tool

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1822.62	100.44	Initial Hydro-static
1	22.59	100.06	Open To Flow (1)
31	30.66	101.83	Shut-In(1)
60	116.12	102.85	End Shut-In(1)
61	32.65	102.84	Open To Flow (2)
79	34.89	103.29	Shut-In(2)
79	1769.13	104.70	Final Hydro-static

Recovery

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

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

StrataKan Exploration

204 W Mill St
Plainville, KS 67663

ATTN: Jason Alm

22-22S-13W Stafford,KS

Andrews B #22-1

Job Ticket: 55422 **DST#: 2**

Test Start: 2016.10.06 @ 12:54:29

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:25:44
Time Test Ended: 17:44:44

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 3624.00 ft (KB) To 3740.00 ft (KB) (TVD)
Total Depth: 3740.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

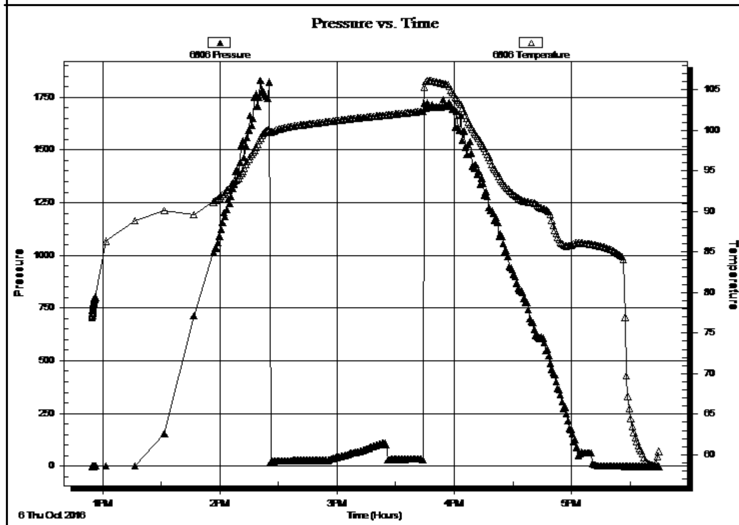
Reference Elevations: 1895.00 ft (KB)
1890.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6806 Outside

Press@RunDepth: psig @ 3625.00 ft (KB)
Start Date: 2016.10.06 End Date: 2016.10.06
Start Time: 12:54:30 End Time: 17:44:44

Capacity: 8000.00 psig
Last Calib.: 2016.10.06
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Weak 1/2" Blow , Died Off to Surface Blow
ISI: No Blow Back
FF: Weak Surface Blow , Dead @ 6 minutes, Pulled Tool



PRESSURE SUMMARY

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

Recovery

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

* Recovery from multiple tests

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

StrataKan Exploration

204 W Mill St
Plainville, KS 67663

ATTN: Jason Alm

22-22S-13W Stafford,KS

Andrews B #22-1

Job Ticket: 55422 **DST#: 2**

Test Start: 2016.10.06 @ 12:54:29

Tool Information

Drill Pipe:	Length:	3490.00 ft	Diameter:	3.80 inches	Volume:	48.96 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	118.00 ft	Diameter:	2.25 inches	Volume:	0.58 bbl	
					Total Volume:	49.54 bbl	

Drill Pipe Above KB:	3.00 ft
Depth to Top Packer:	3624.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	116.00 ft
Tool Length:	135.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2100.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	60000.00 lb
Tool Chased	ft
String Weight: Initial	40000.00 lb
Final	40000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3610.00		
Hydraulic tool	5.00			3615.00		
Packer	5.00			3620.00	19.00	Bottom Of Top Packer
Packer	4.00			3624.00		
Stubb	1.00			3625.00		
Recorder	0.00	8525	Inside	3625.00		
Recorder	0.00	6806	Outside	3625.00		
Perforations	1.00			3626.00		
Change Over Sub	1.00			3627.00		
Drill Pipe	94.00			3721.00		
Change Over Sub	1.00			3722.00		
Perforations	15.00			3737.00		
Bullnose	3.00			3740.00	116.00	Bottom Packers & Anchor
Total Tool Length:	**135.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

StrataKan Exploration

204 W Mill St
Plainville, KS 67663

ATTN: Jason Alm

22-22S-13W Stafford,KS

Andrews B #22-1

Job Ticket: 55422 **DST#: 2**

Test Start: 2016.10.06 @ 12:54:29

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:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

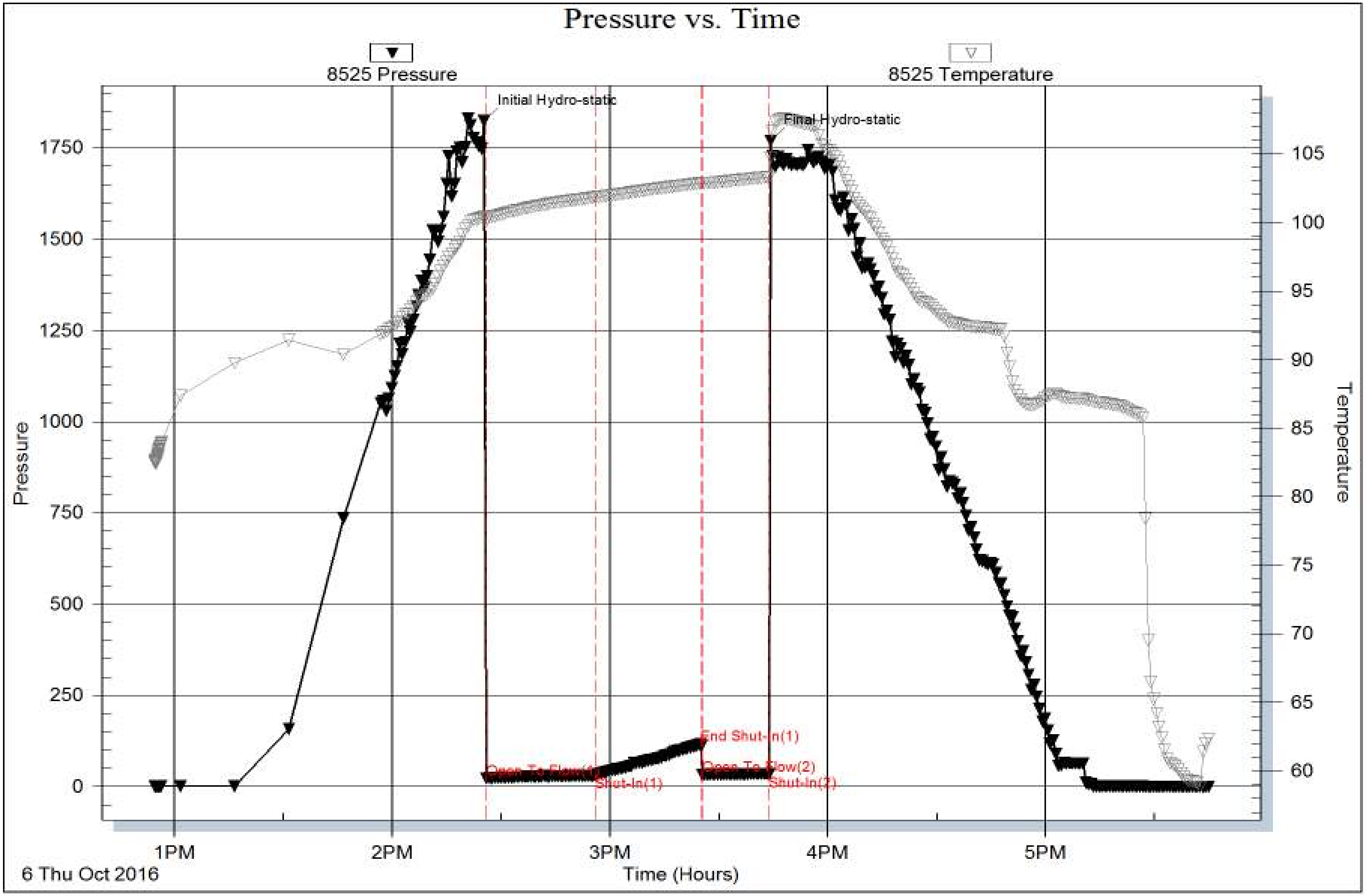
Total Length: 5.00 ft Total Volume: 0.025 bbl

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

Laboratory Name: Laboratory Location:

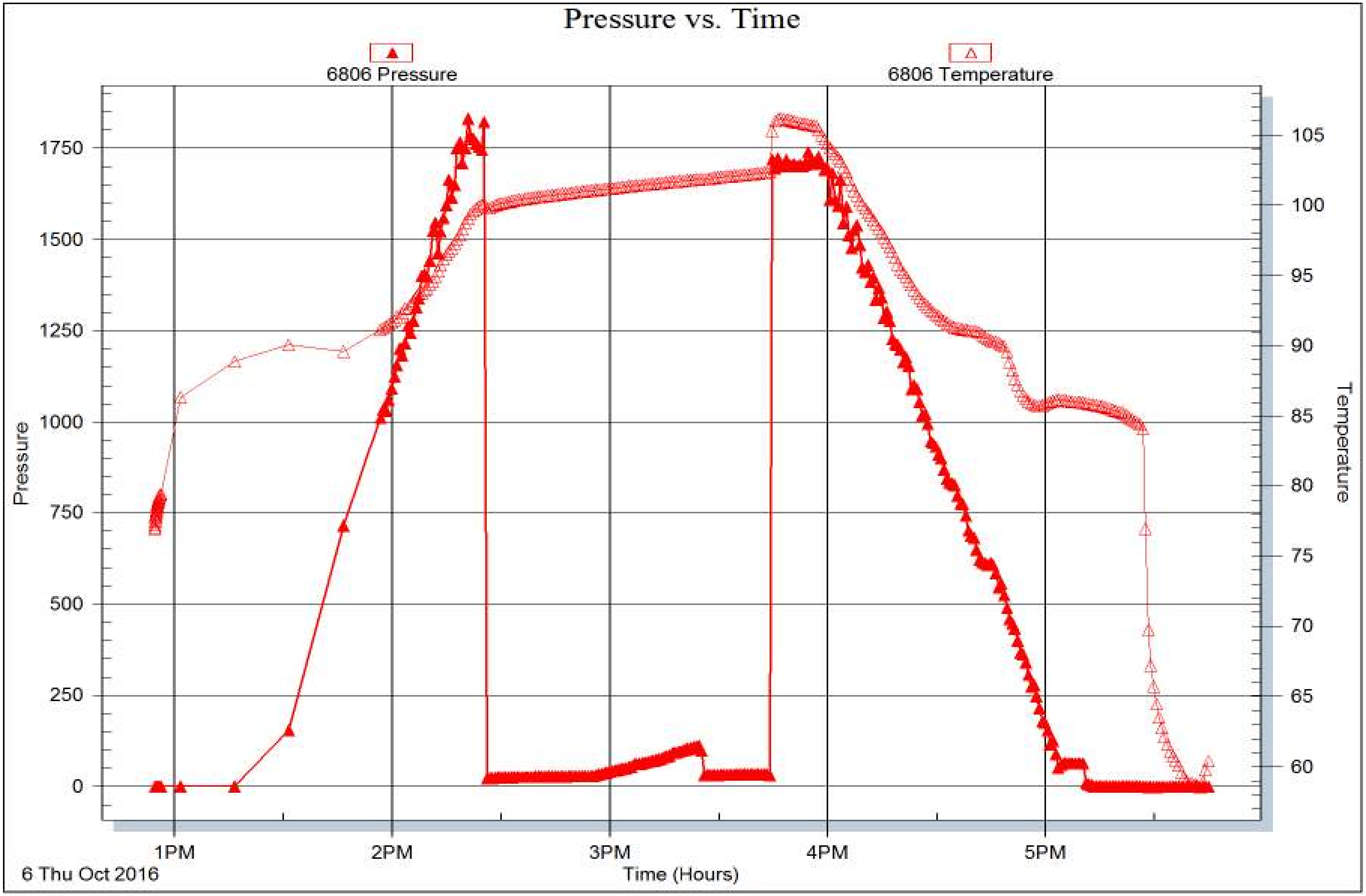
Recovery Comments:

Serial #: 8525 **Inside** StrataKan Exploration Andrews B #22-1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 55422 Printed: 2016.10.10 @ 08:52:37

Serial #: 6806 **Outside** StrataKan Exploration Andrews B #22-1 DST Test Number: 2



DRILL STEM TEST REPORT

Prepared For: **StrataKan Exploration**

204 W Mill St
Plainville, KS 67663

ATTN: Jason Alm

Andrews B #22-1

22-22S-13W Stafford,KS

Start Date: 2016.10.07 @ 02:38:43
End Date: 2016.10.07 @ 09:18:13
Job Ticket #: 55423 DST #: 3

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

Printed: 2016.10.10 @ 08:51:51

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

StrataKan Exploration

204 W Mill St
Plainville, KS 67663

ATTN: Jason Alm

22-22S-13W Stafford,KS

Andrews B #22-1

Job Ticket: 55423 **DST#: 3**

Test Start: 2016.10.07 @ 02:38:43

GENERAL INFORMATION:

Formation: **Simpson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:19:58
Time Test Ended: 09:18:13

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 3740.00 ft (KB) To 3790.00 ft (KB) (TVD)
Total Depth: 3790.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

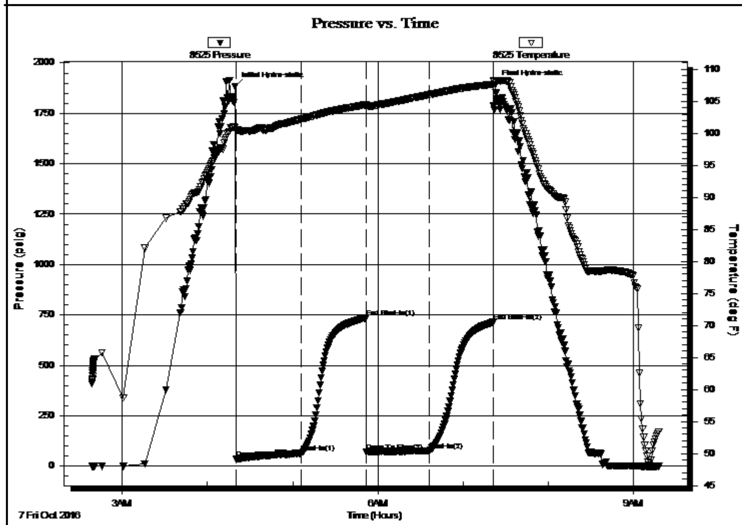
Reference Elevations: 1895.00 ft (KB)
1890.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8525 Inside

Press@RunDepth: 76.84 psig @ 3741.00 ft (KB)
Start Date: 2016.10.07 End Date: 2016.10.07
Start Time: 02:38:44 End Time: 09:18:13

Capacity: 8000.00 psig
Last Calib.: 2016.10.07
Time On Btm: 2016.10.07 @ 04:19:13
Time Off Btm: 2016.10.07 @ 07:22:28

TEST COMMENT: IF: Weak Blow , Built to 3 1/2"
ISI: No Blow Back
FF: Weak Blow Built to 1"
FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1884.16	100.85	Initial Hydro-static
1	35.25	100.35	Open To Flow (1)
47	64.81	102.21	Shut-In(1)
93	735.29	104.45	End Shut-In(1)
93	72.52	104.27	Open To Flow (2)
137	76.84	106.04	Shut-In(2)
182	714.51	107.67	End Shut-In(2)
184	1891.12	108.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GOWCM 10%G 10%O 12%W 68%M	0.61

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

StrataKan Exploration

204 W Mill St
Plainville, KS 67663

ATTN: Jason Alm

22-22S-13W Stafford,KS

Andrews B #22-1

Job Ticket: 55423 **DST#: 3**

Test Start: 2016.10.07 @ 02:38:43

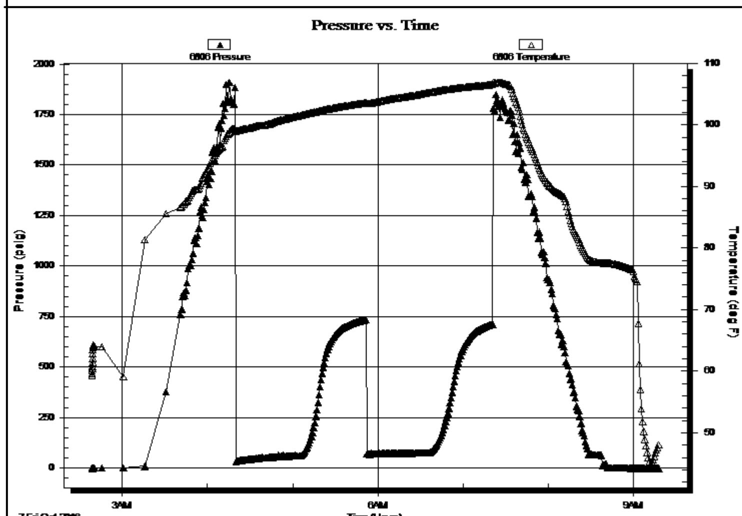
GENERAL INFORMATION:

Formation:	**Simpson**		
Deviated:	No Whipstock: ft (KB)	Test Type:	Conventional Bottom Hole (Reset)
Time Tool Opened:	04:19:58	Tester:	Leal Cason
Time Test Ended:	09:18:13	Unit No:	74
Interval:	**3740.00 ft (KB) To 3790.00 ft (KB) (TVD)**	Reference Elevations:	1895.00 ft (KB)
Total Depth:	3790.00 ft (KB) (TVD)		1890.00 ft (CF)
Hole Diameter:	7.88 inches Hole Condition: Good	KB to GR/CF:	5.00 ft

Serial #: 6806 **Outside**

Press@RunDepth:	psig @ 3741.00 ft (KB)			Capacity:	8000.00 psig
Start Date:	2016.10.07	End Date:	2016.10.07	Last Calib.:	2016.10.07
Start Time:	02:38:44	End Time:	09:18:13	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: IF: Weak Blow , Built to 3 1/2"
ISI: No Blow Back
FF: Weak Blow Built to 1"
FSI: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GOWCM 10%G 10%O 12%W 68%M	0.61

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

StrataKan Exploration

204 W Mill St
Plainville, KS 67663

ATTN: Jason Alm

22-22S-13W Stafford,KS

Andrews B #22-1

Job Ticket: 55423 **DST#: 3**

Test Start: 2016.10.07 @ 02:38:43

Tool Information

Drill Pipe:	Length:	3615.00 ft	Diameter:	3.80 inches	Volume:	50.71 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	118.00 ft	Diameter:	2.25 inches	Volume:	0.58 bbl	Weight to Pull Loose:	45000.00 lb
					Total Volume:	51.29 bbl	Tool Chased	ft
Drill Pipe Above KB:		12.00 ft					String Weight: Initial	40000.00 lb
Depth to Top Packer:		3740.00 ft					Final	40000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		50.00 ft						
Tool Length:		69.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3726.00		
Hydraulic tool	5.00			3731.00		
Packer	5.00			3736.00	19.00	Bottom Of Top Packer
Packer	4.00			3740.00		
Stubb	1.00			3741.00		
Recorder	0.00	8525	Inside	3741.00		
Recorder	0.00	6806	Outside	3741.00		
Perforations	2.00			3743.00		
Change Over Sub	1.00			3744.00		
Drill Pipe	32.00			3776.00		
Change Over Sub	1.00			3777.00		
Perforations	10.00			3787.00		
Bullnose	3.00			3790.00	50.00	Bottom Packers & Anchor
Total Tool Length:	**69.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

StrataKan Exploration

204 W Mill St
Plainville, KS 67663

ATTN: Jason Alm

22-22S-13W Stafford,KS

Andrews B #22-1

Job Ticket: 55423 **DST#: 3**

Test Start: 2016.10.07 @ 02:38:43

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:	52000 ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

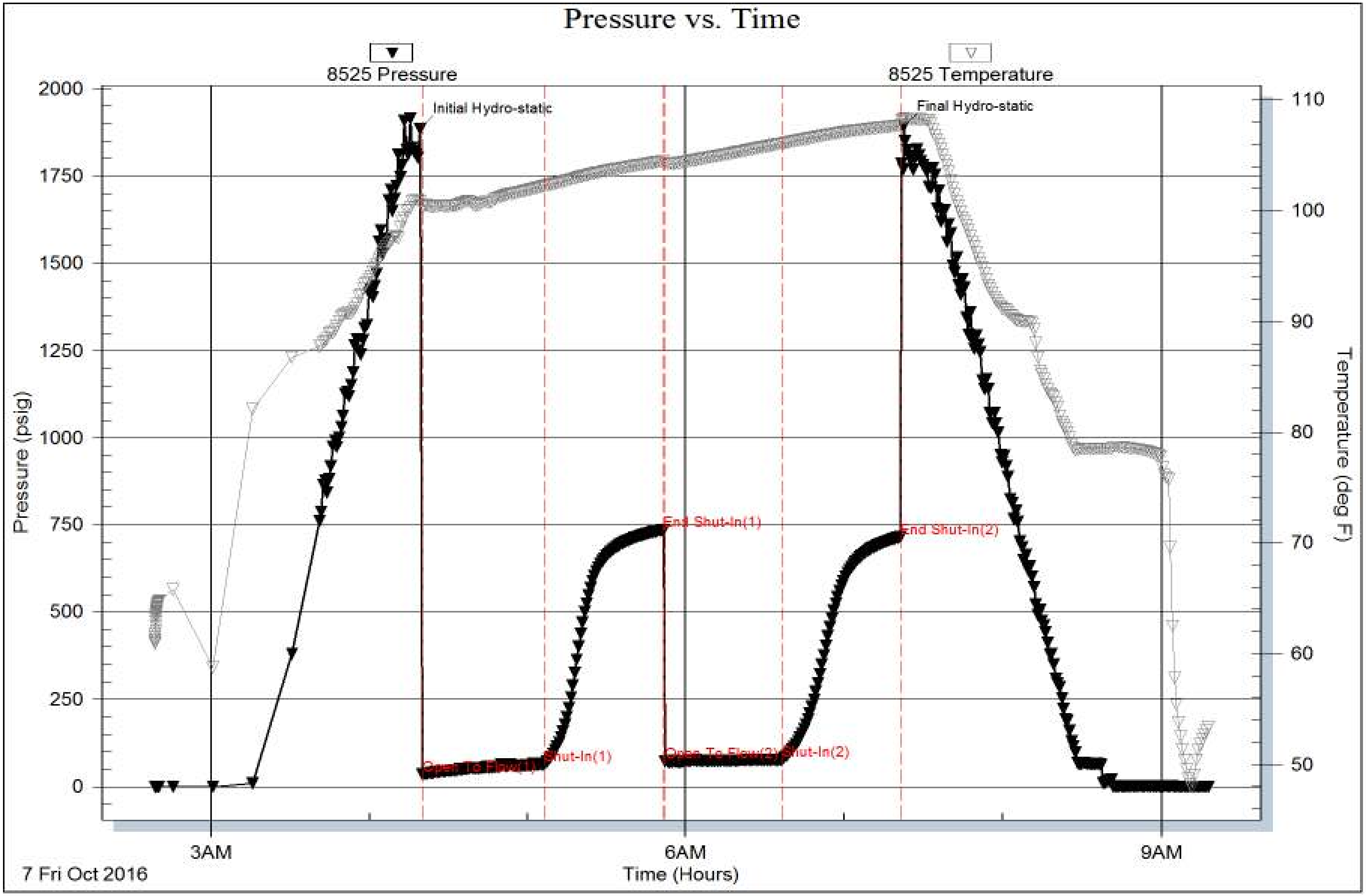
Length ft	Description	Volume bbl
120.00	GOWCM 10%G 10%O 12%W 68%M	0.608

Total Length: 120.00 ft Total Volume: 0.608 bbl

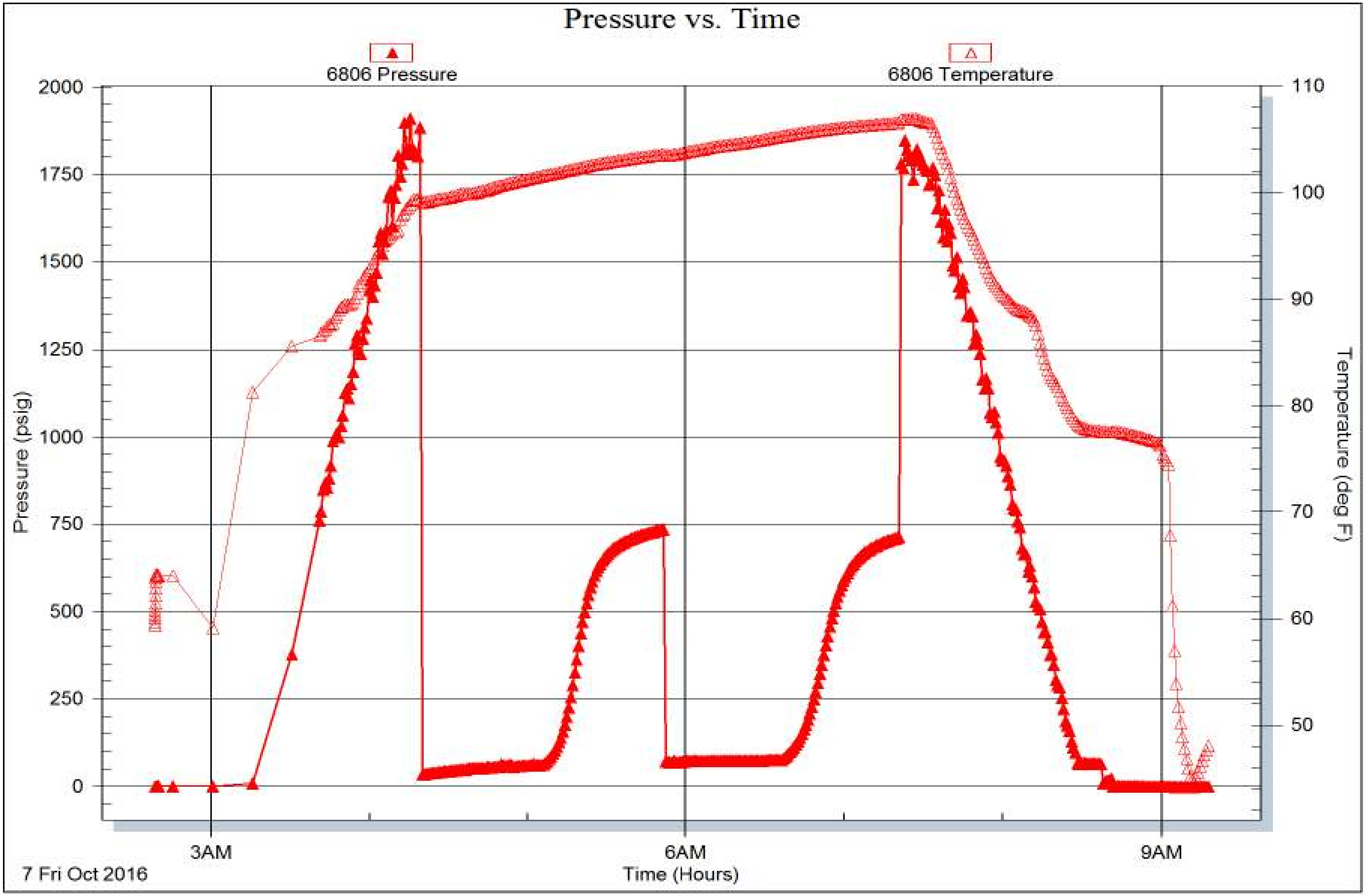
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW w as .25 @ 42 degrees



Pressure vs. Time
8525 Pressure
8525 Temperature
Initial Hydro-static
Final Hydro-static
Open To Flow(1)
Shut-In(1)
End Shut-In(1)
Open To Flow(2)
Shut-In(2)
End Shut-In(2)
Pressure (psig)
2000
1750
1500
1250
1000
750
500
250
0
Temperature (deg F)
110
100
90
80
70
60
50
3AM
6AM
9AM
7 Fri Oct 2016
Time (Hours)


Pressure vs. Time
6806 Pressure
6806 Temperature
Pressure (psig)
2000
1750
1500
1250
1000
750
500
250
0
Temperature (deg F)
110
100
90
80
70
60
50
3AM
6AM
9AM
7 Fri Oct 2016
Time (Hours)

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 55421

Well Name & No. Andrews B 22-1 Test No. 1 Date 10/05/16

Company Strata Kan Exploration Elevation 1895 KB 1890 GL

Address 204 W. Mill St Plainville, KS 67663

Co. Rep / Geo. Jason Alm Rig WW 8

Location: Sec. 22 Twp. 22S Rge. 13W Co. Stafford State KS

Interval Tested 3540 - 3610 Zone Tested LKC "IJK"

Anchor Length 70 Drill Pipe Run 3424 Mud Wt. 9.0

Top Packer Depth 3535 Drill Collars Run 118 Vis 52

Bottom Packer Depth 3540 Wt. Pipe Run 0 WL 8.8

Total Depth 3610 Chlorides 4000 ppm System LCM 2#

Blow Description IF: Weak Blow Built to 4 inches
ISI: No Blow Back
FF: Weak Blow, Built to 2 inches
FSI: No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
180	Mud				

Rec Total 180 BHT 109 Gravity N/C API RW N/C @ N/C °F Chlorides N/C ppm

(A) Initial Hydrostatic	1763	☑ Test	1050	T-On Location	19:15
(B) First Initial Flow	22	☐ Jars		T-Started	20:17
(C) First Final Flow	83	☐ Safety Joint		T-Open	22:42
(D) Initial Shut-In	947	☐ Circ Sub		T-Pulled	01:44
(E) Second Initial Flow	84	☐ Hourly Standby		T-Out	03:22
(F) Second Final Flow	102	☑ Mileage 60	45	Comments	
(G) Final Shut-In	904	☐ Sampler			
(H) Final Hydrostatic	1717	☐ Straddle			
		☐ Shale Packer		☐ Ruined Shale Packer	
Initial Open	45	☐ Extra Packer		☐ Ruined Packer	
Initial Shut-In	45	☐ Extra Recorder		☐ Extra Copies	
Final Flow	45	☐ Day Standby		Sub Total	0
Final Shut-In	45	☐ Accessibility		Total	1095
		Sub Total	1095	MP/DST Disc't	

Approved By ______ Our Representative [signature]

4/10

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55422

Well Name & No. Andrews B 22-1 Test No. 2 Date 10/06/16

Company Strata Kan Exploration Elevation 1895 KB 1890 GL

Address 204 W. Mill St Plainville, KS 67663

Co. Rep / Geo. Jason Alm Rig WW 8

Location: Sec. 22 Twp. 22S Rge. 13W Co. Stafford State KS

Interval Tested 3624 - 3740 Zone Tested Viola

Anchor Length 116 Drill Pipe Run 3490 Mud Wt. 9.6

Top Packer Depth 3619 Drill Collars Run 118 Vis 49

Bottom Packer Depth 3624 Wt. Pipe Run 0 WL 9.6

Total Depth 3740 Chlorides 5006 ppm System LCM 1.5

Blow Description IF: weak 1/2 inch Blow, Died off to Surface Blow

ISI: NO Blow Back

FF: weak surface Blow, Dead @ 6 minutes, Pulled Tool

Rec	Feet of	%gas	%oil	%water	%mud
5	Mud				

Rec Total 5 BHT 107 Gravity N/C API RW N/C @ N/C °F Chlorides N/C ppm

(A) Initial Hydrostatic 1823
(B) First Initial Flow 23
(C) First Final Flow 31
(D) Initial Shut-In 116
(E) Second Initial Flow 33
(F) Second Final Flow N/A
(G) Final Shut-In N/A
(H) Final Hydrostatic 1769

Initial Open 30
Initial Shut-In 30
Final Flow 15
Final Shut-In N/A

☑ Test 1050
☐ Jars
☐ Safety Joint
☐ Circ Sub
☐ Hourly Standby
☑ Mileage 60 ↗ 45
☐ Sampler
☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
Sub Total 1095

T-On Location 12:15
T-Started 12:54
T-Open 14:25
T-Pulled 15:44
T-Out 17:44
Comments

☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
Sub Total 0
Total 1095
MP/DST Disc't

Approved By ______________ Our Representative [signature]

4/10

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55423

Well Name & No. Andrews B 22-1 Test No. 3 Date 10/07/16

Company Stratakan Exploration Elevation 1895 KB 1890 GL

Address 204 W. Mill St Plainville, KS 67663

Co. Rep / Geo. Jason Alm Rig WW 8

Location: Sec. 22 Twp. 22S Rge. 13W Co. Stafford State KS

Interval Tested 3740 - 3790 Zone Tested Simpson

Anchor Length 50 Drill Pipe Run 3615 Mud Wt. 9.0

Top Packer Depth 3735 Drill Collars Run 118 Vis 49

Bottom Packer Depth 3740 Wt. Pipe Run 0 WL 9.6

Total Depth 3790 Chlorides 5000 ppm System LCM 1.5

Blow Description IF: Weak Blow, Built to 3 1/2 inches

IST: No Blow Back

FF: Weak Blow, Built to 1inch

FSI: No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
120	GOWCM	10	10	12	68

Rec Total 120 BHT 108 Gravity N/C API RW .25 @ 42 °F Chlorides 52000 ppm

(A) Initial Hydrostatic 1884

(B) First Initial Flow 35

(C) First Final Flow 65

(D) Initial Shut-In 735

(E) Second Initial Flow 72

(F) Second Final Flow 77

(G) Final Shut-In 714

(H) Final Hydrostatic 1891

Initial Open 45

Initial Shut-In 45

Final Flow 45

Final Shut-In 45

- [x] Test 1050
- [ ] Jars
- [ ] Safety Joint
- [ ] Circ Sub
- [ ] Hourly Standby
- [x] Mileage 60 ↗ 90
- [ ] Sampler
- [ ] Straddle
- [ ] Shale Packer
- [ ] Extra Packer
- [ ] Extra Recorder
- [ ] Day Standby
- [ ] Accessibility

Sub Total 1140

T-On Location 02:00

T-Started 02:38

T-Open 04:19

T-Pulled 07:21

T-Out 09:18

Comments Loaded Tools @ 20:30 on 10/07

- [ ] Ruined Shale Packer
- [ ] Ruined Packer
- [ ] Extra Copies

Sub Total 0

Total 1140

MP/DST Disc't

Approved By

Our Representative [signature]

PIONEER
Pioneer Energy Services

DUAL INDUCTION LOG

Company	STRATAKAN EXPLORATION, INC.
Well	ANDREWS #22-1
Field	KENILWORTH
County	STAFFORD
State	KANSAS

Location: API # : 15-185-23960-00-00
950' FNL & 2050' FWL
SEC 22 TWP 22S RGE 13W

Other Services: CNL/CDL, MEL

Permanent Datum	GROUND LEVEL	Elevation 1890'
Log Measured From	KELLY BUSHING	
Drilling Measured From	KELLY BUSHING	

Elevation: K.B. 1895' D.F. N/A G.L. 1890'

Company	STRATAKAN EXPLORATION, INC
Well	ANDREWS #22-1
Field	KENILWORTH
County	STAFFORD
State	KANSAS

Date	5/21/2016		
Run Number	ONE		
Depth Driller	3910'		
Depth Logger	3908'		
Bottom Logged Interval	3907'		
Top Log Interval	650'		
Casing Driller	8.625" @ 681'		
Casing Logger	679'		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Salinity,ppm CL	3800		
Density / Viscosity	8.7 / 80		
pH / Fluid Loss	11.0 / 7.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.40 @ 60		
Rmf @ Meas. Temp	0.30 @ 60		
Rmc @ Meas. Temp	0.54 @ 60		
Source of Rmf / Rmc	CHARTS		
Rm @ BHT	0.21 @ 115		
Operating Rig Time	3 HOURS		
Max Rec. Temp. F	115		
Equipment Number	91		
Location	COLBY		
Recorded By	D. SCHMIDT		
Witnessed By	JASON ALM		

<<< Fold Here >>>

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

GREAT BEND,
17 SOUTH TO 120 RD, 3/4 EAST,
SOUTH INTO

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

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

Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: D. SCHMIDT	Primary Witness: JASON ALM
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Database File	stratakan_andrews_22-1hd.db
Dataset Pathname	DIL/ststkml2
Presentation Format	dil2in
Dataset Creation	Sat May 21 11:09:34 2016
Charted by	Depth in Feet scaled 1:600

0 Gamma Ray (GAPI) 150

-200 SP (mV) 0

1000 Conductivity 0

15000 Line Tension (lb) 0

0 Shallow Resistivity (Ohm-m) 50

0 Deep Resistivity (Ohm-m) 50

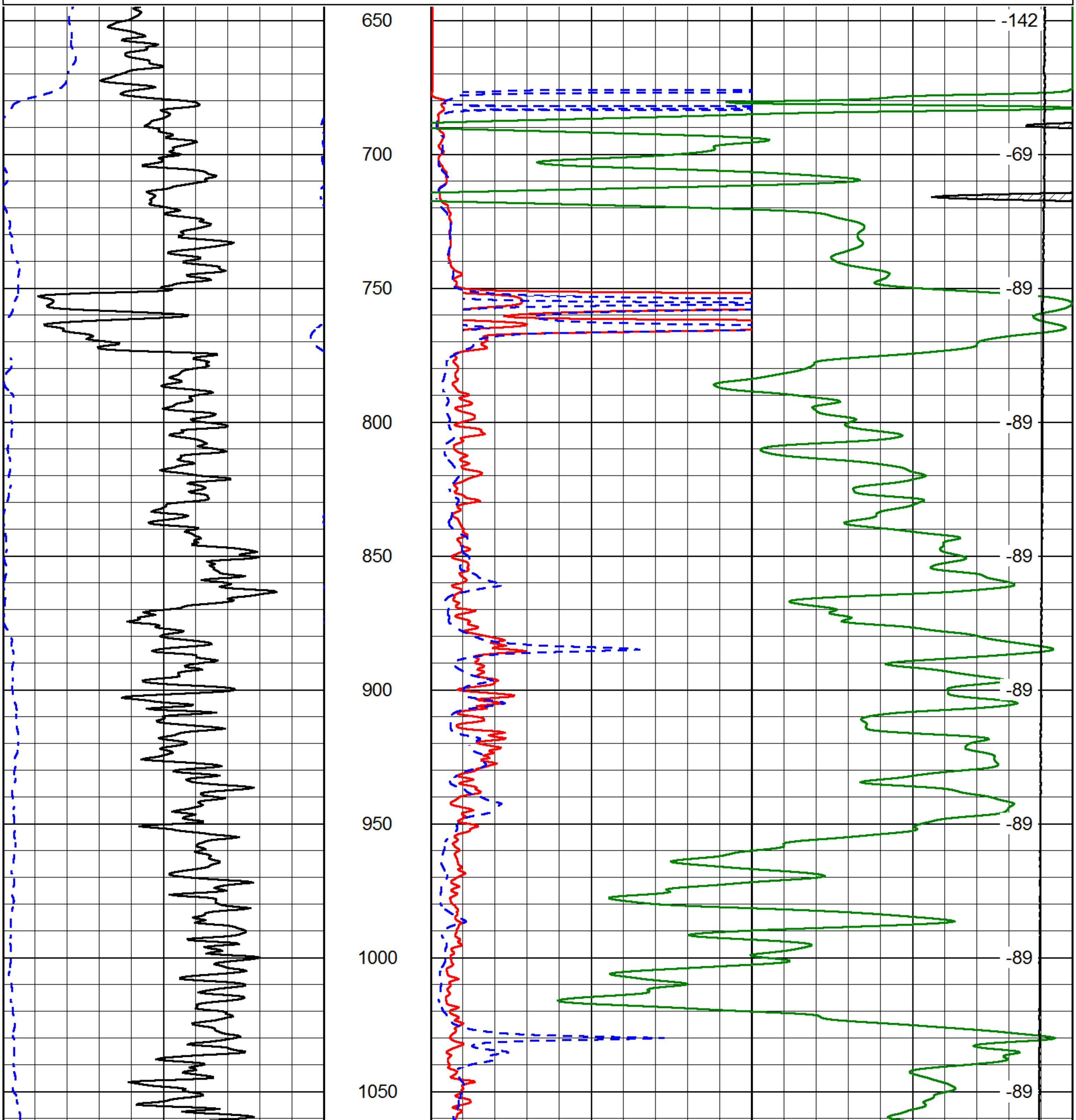
Shallow Resistivity

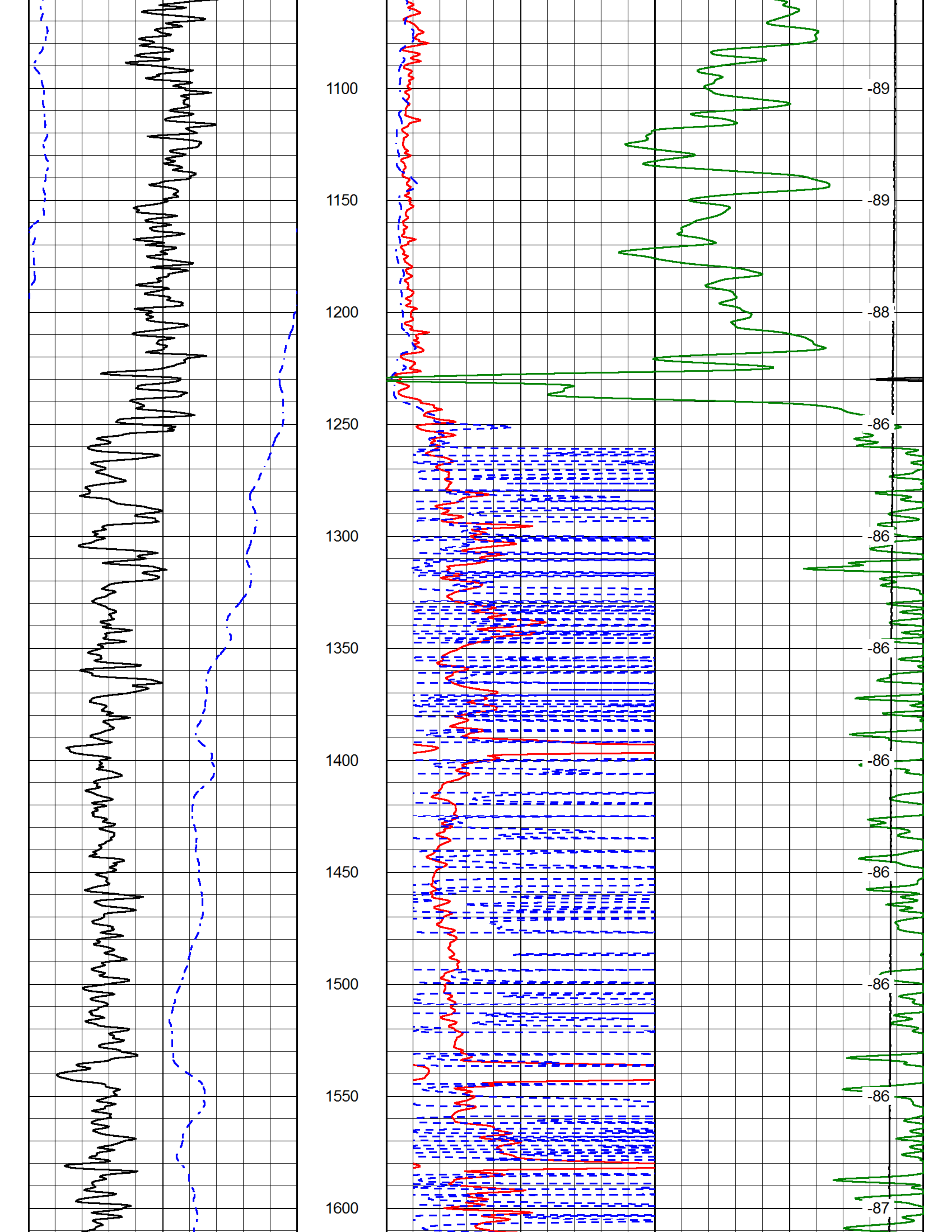
50 (Ohm-m) 500

50 Deep Resistivity (Ohm-m) 500

LSPD

(ft/min)

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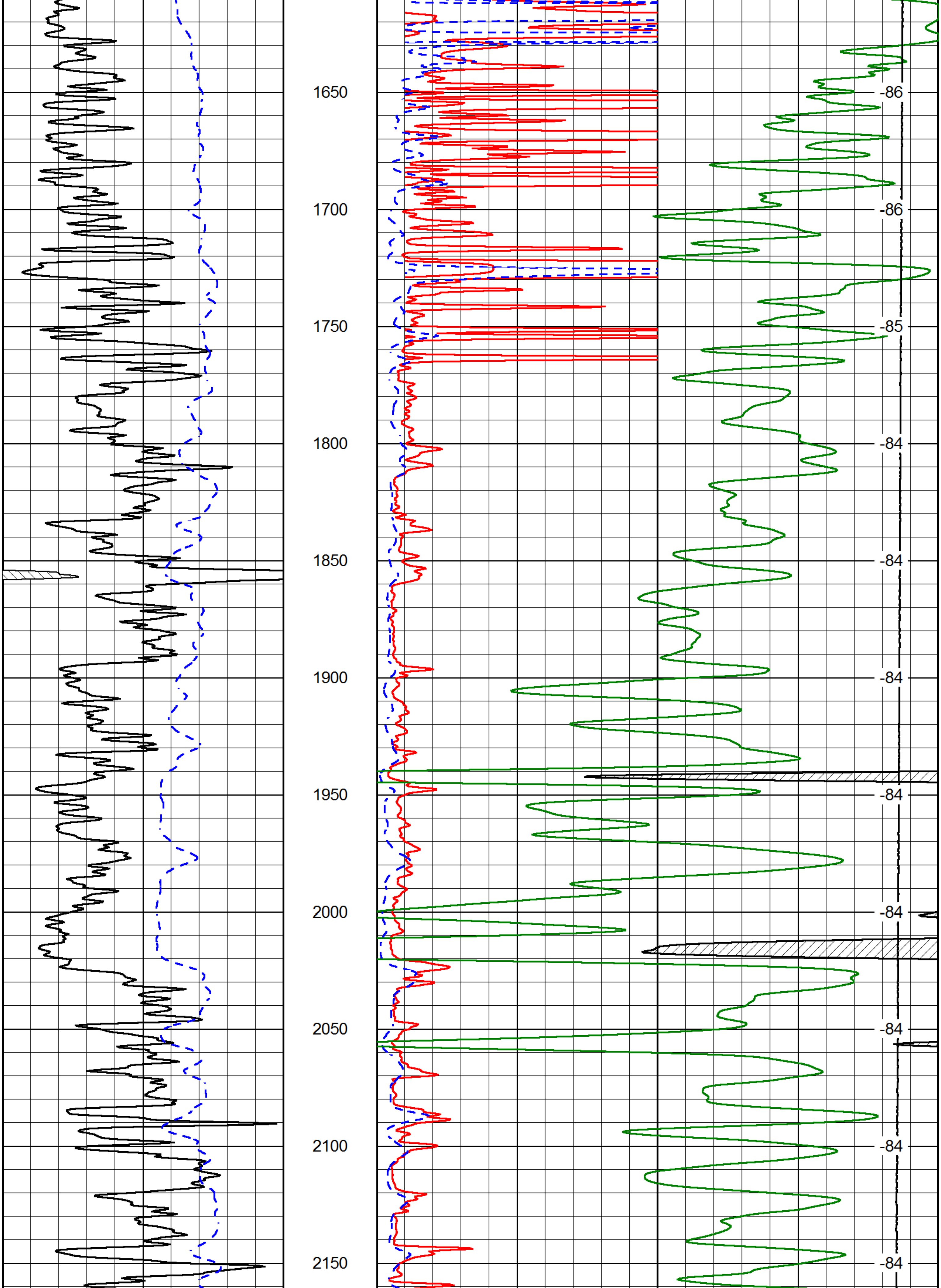
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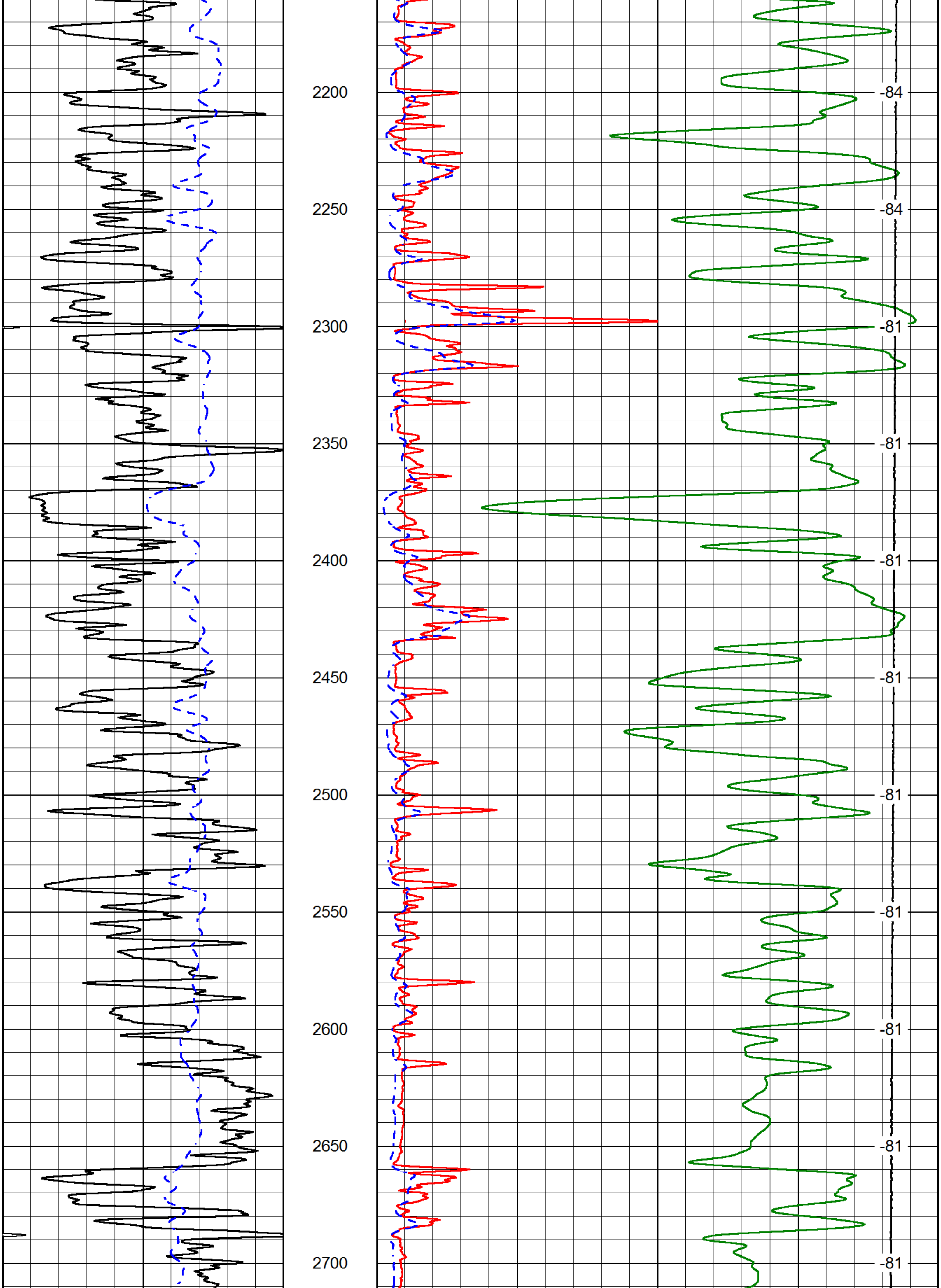
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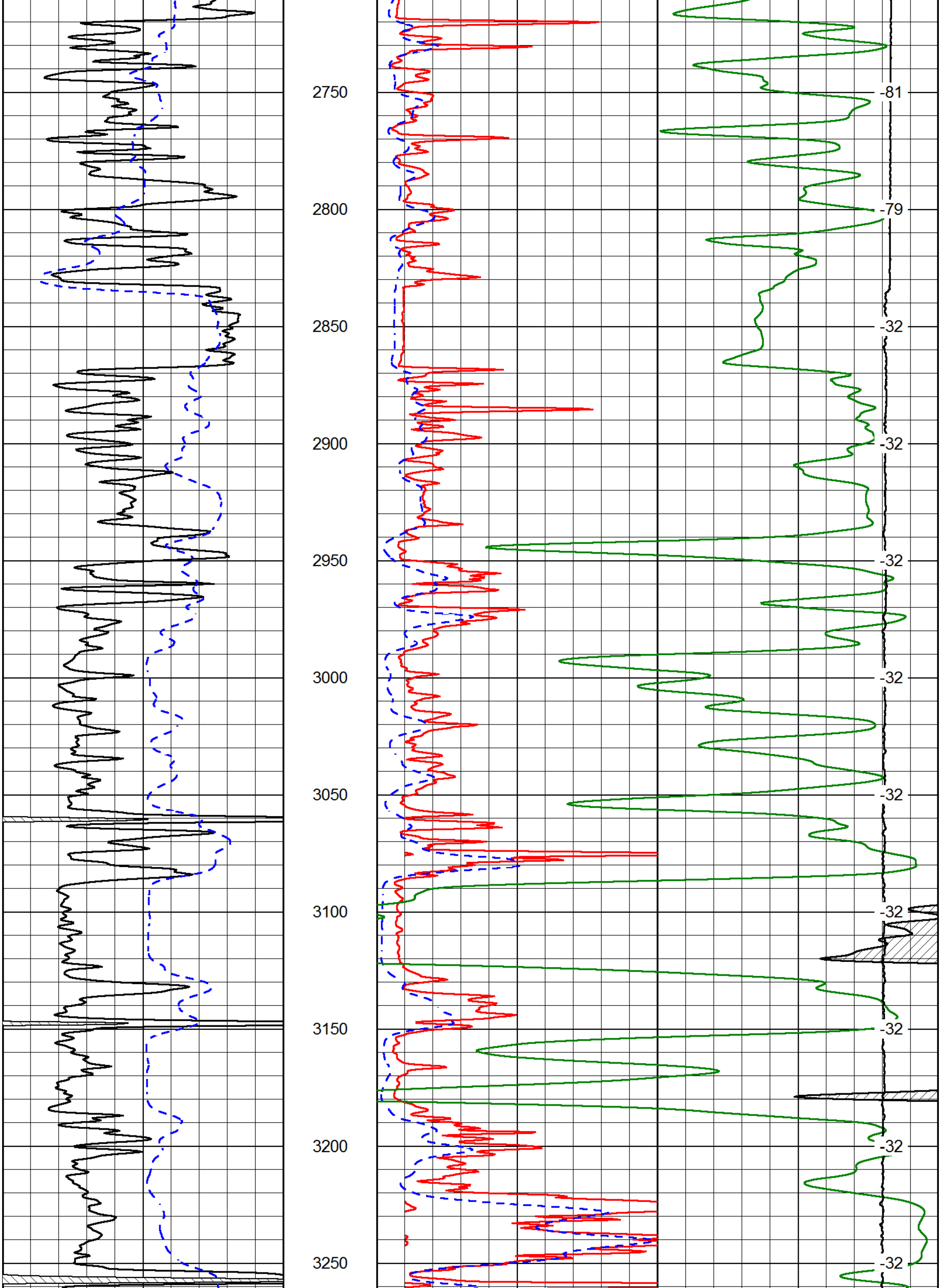
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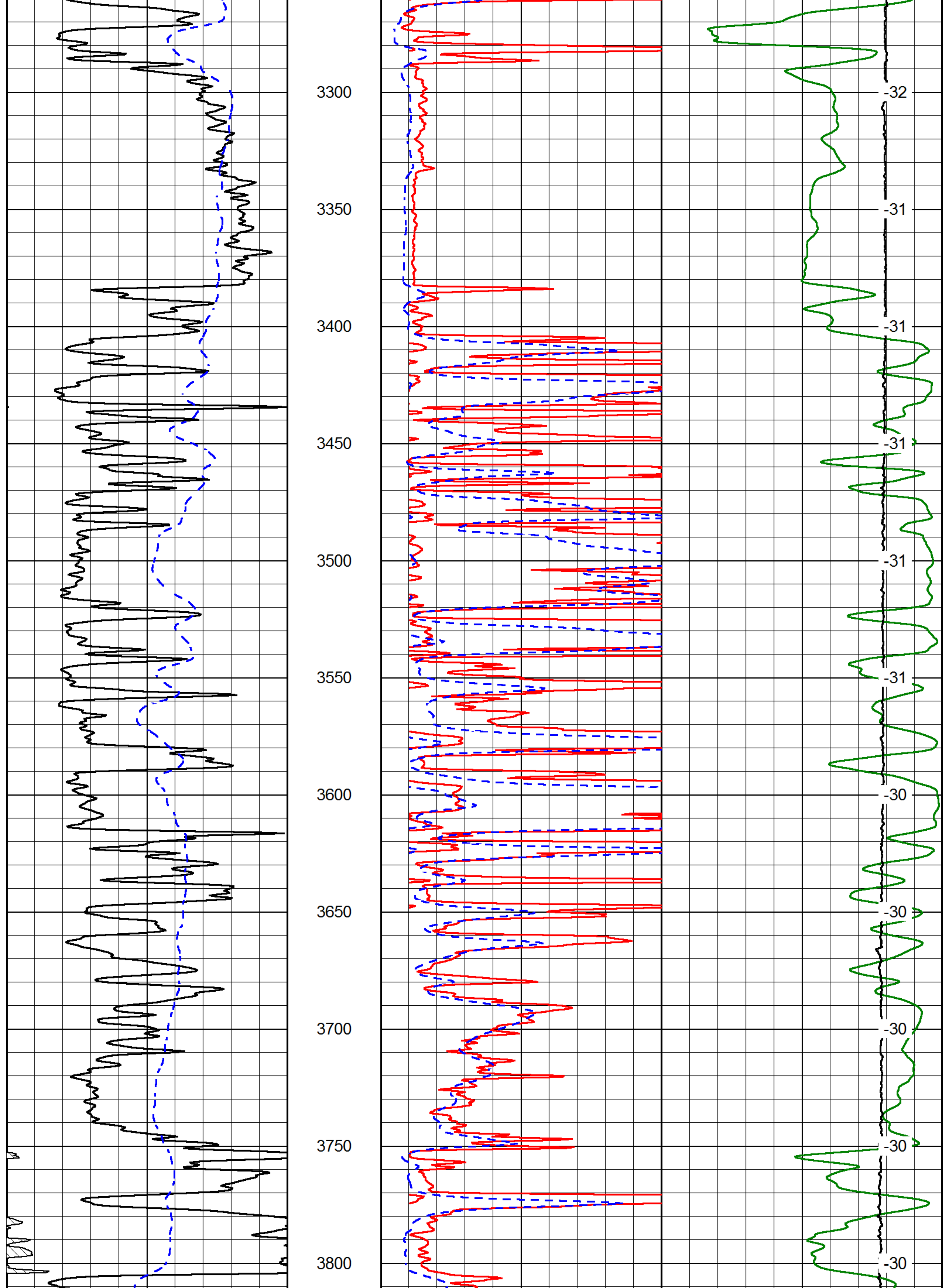
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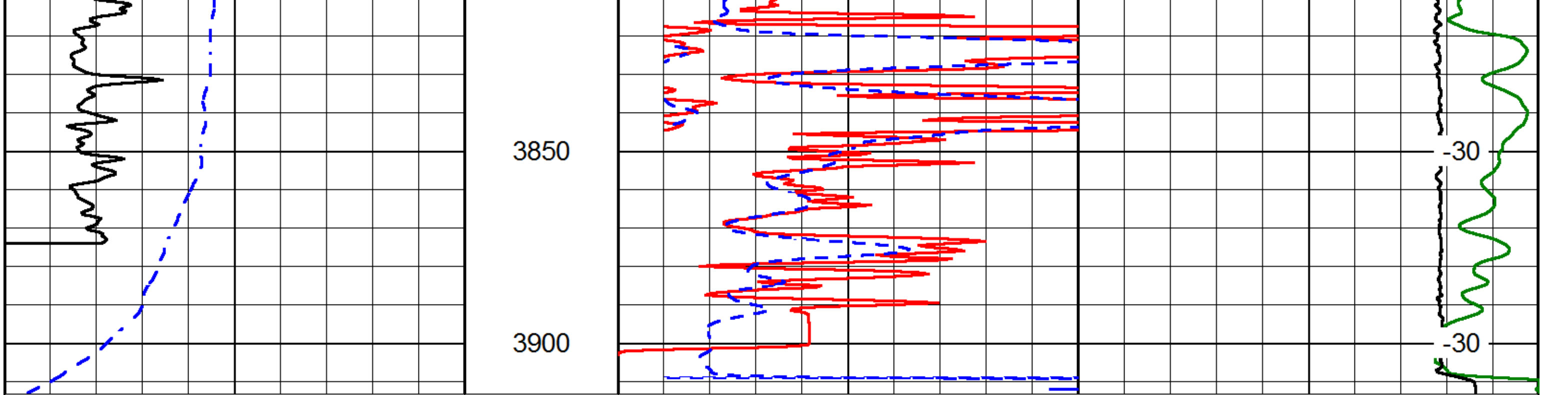


0	Gamma Ray (GAPI)	150	1000	Conductivity	0
-200	SP (mV)	0	15000	Line Tension (lb)	0

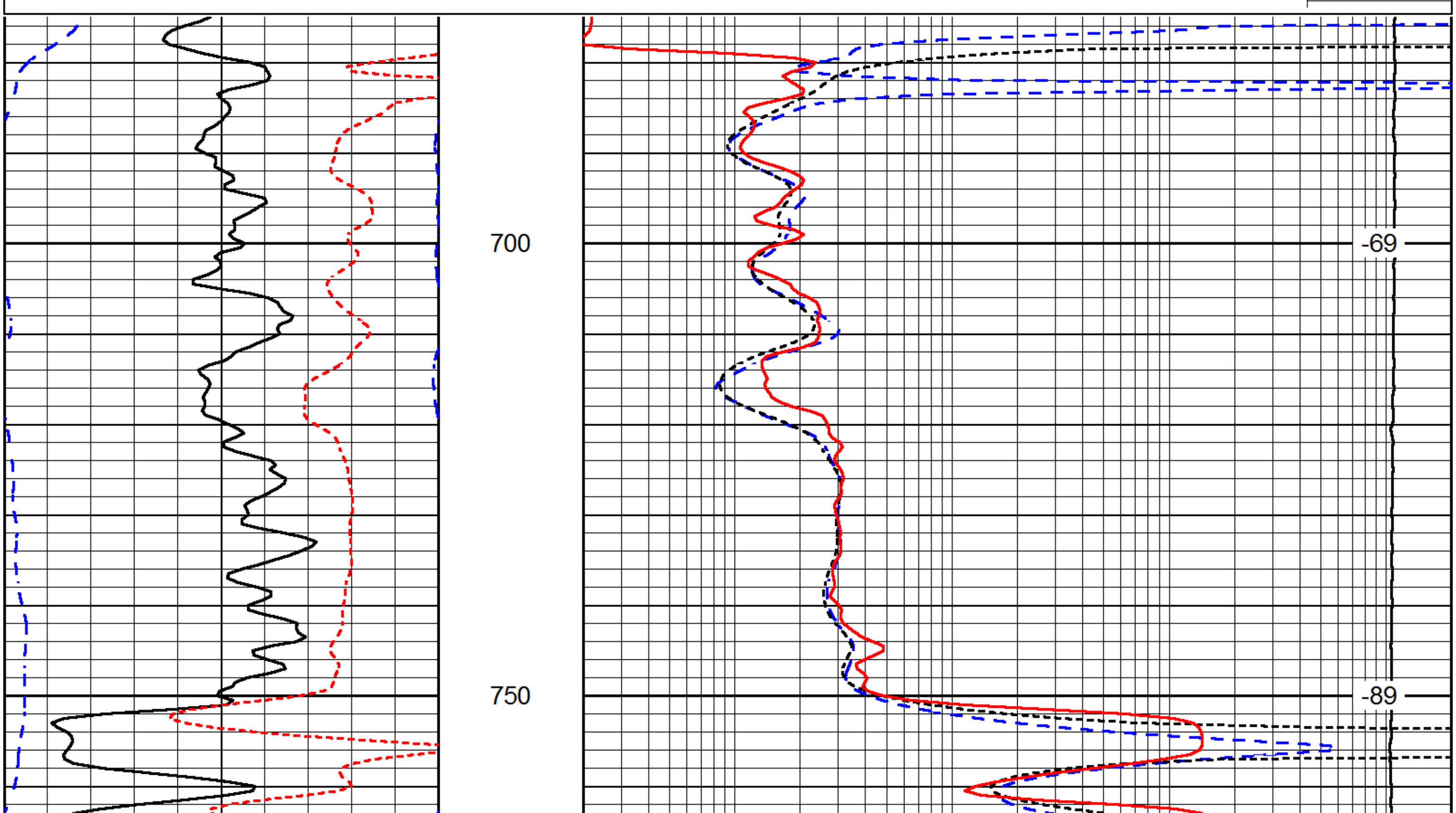
0	Shallow Resistivity (Ohm-m)	50	LSPD (ft/min)
0	Deep Resistivity (Ohm-m)	50	

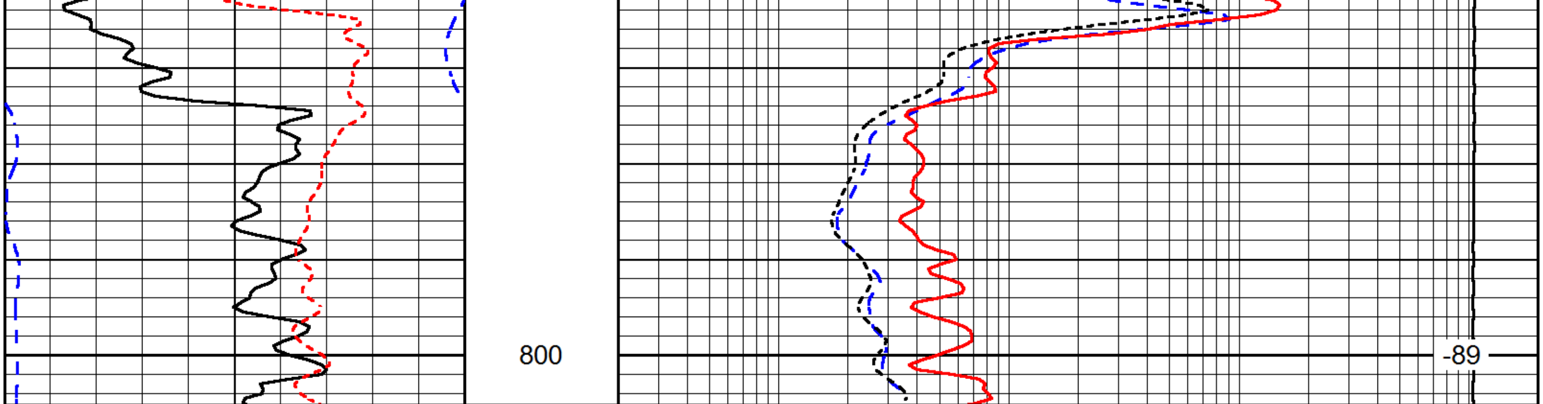
	Shallow Resistivity	
50	(Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

Database File	stratakan_andrews_22-1hd.db
Dataset Pathname	DIL/ststkml2
Presentation Format	dil
Dataset Creation	Sat May 21 11:09:34 2016
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0.2	Deep Resistivity (Ohm-m)	2000
-160	RxoRt	40	0.2	Medium Resistivity (Ohm-m)	2000
-200	SP (mV)	0	0.2	Shallow Resistivity (Ohm-m)	2000
			10000	Line Tension (lb)	0

LSPD (ft/min)





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

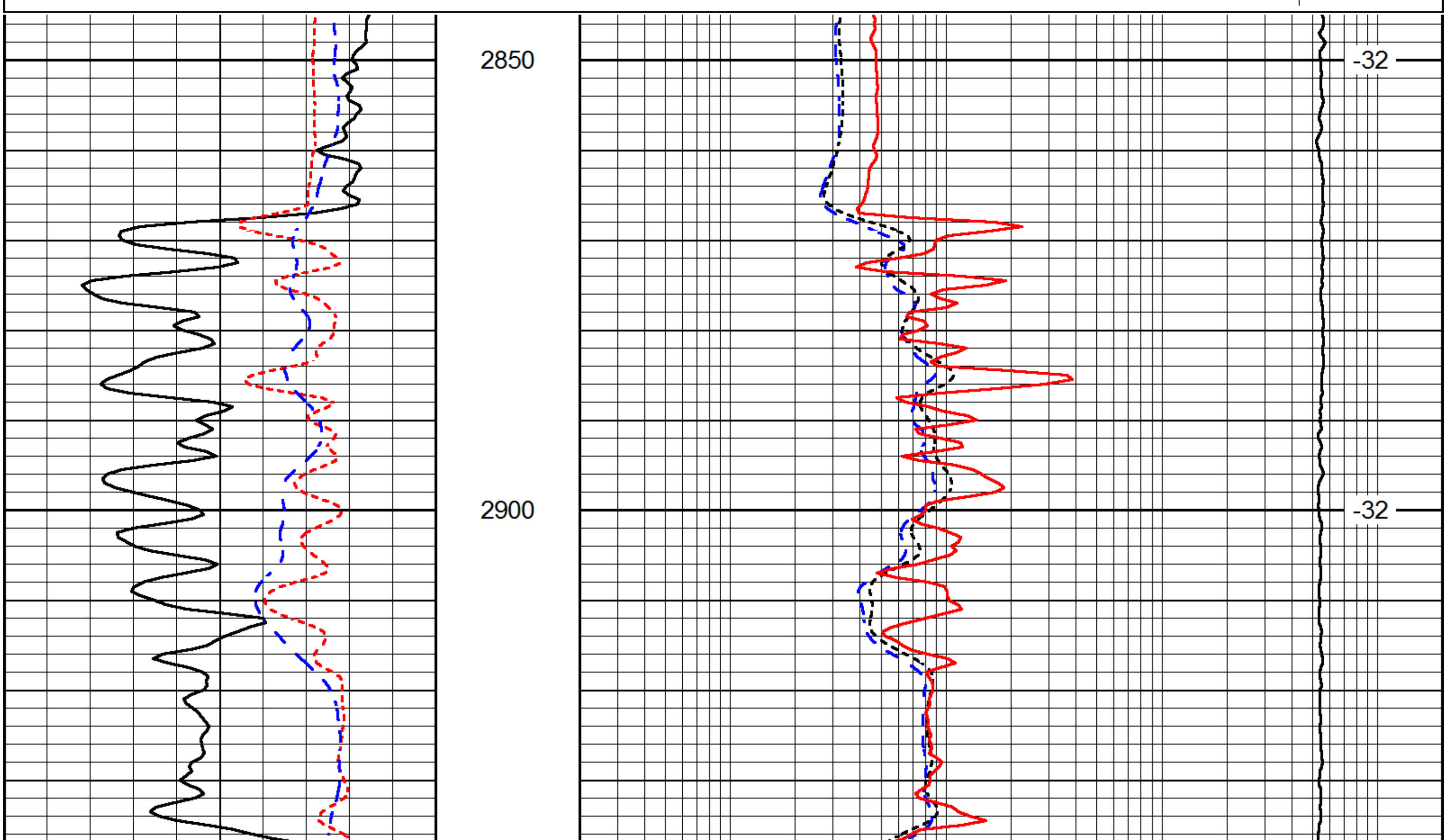
LSPD (ft/min)

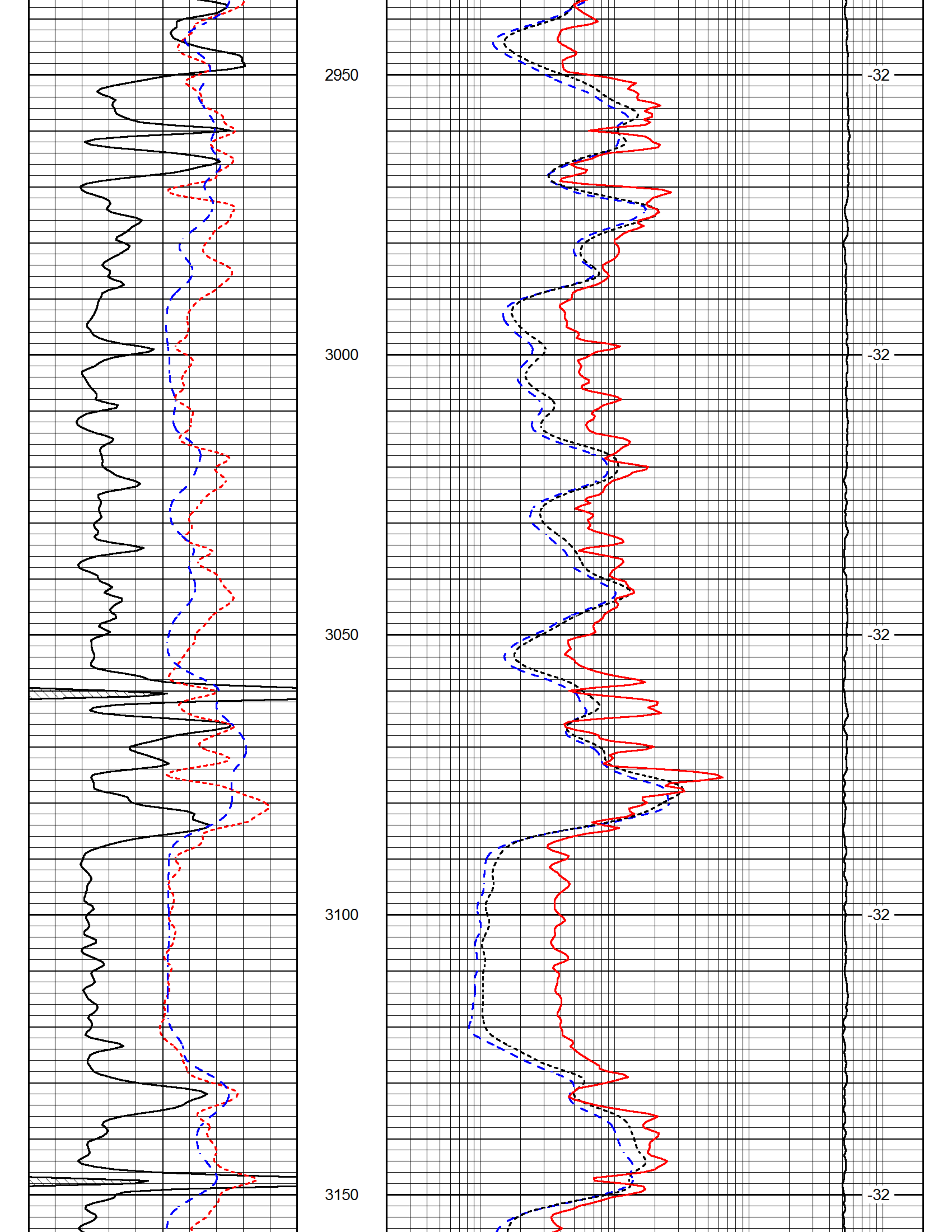
Database File	stratakan_andrews_22-1hd.db
Dataset Pathname	DIL/ststkml2
Presentation Format	dil
Dataset Creation	Sat May 21 11:09:34 2016
Charted by	Depth in Feet scaled 1:240

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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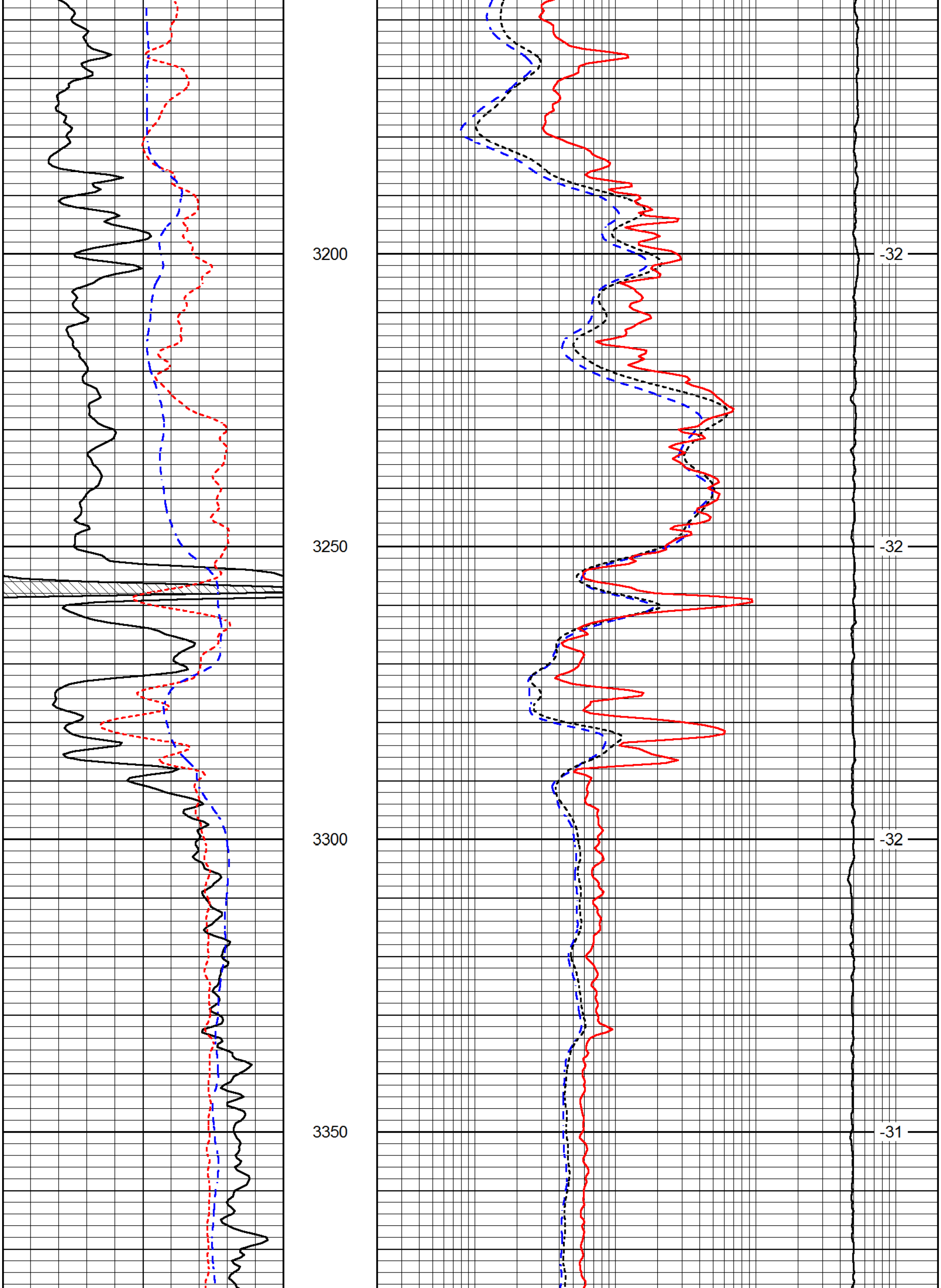
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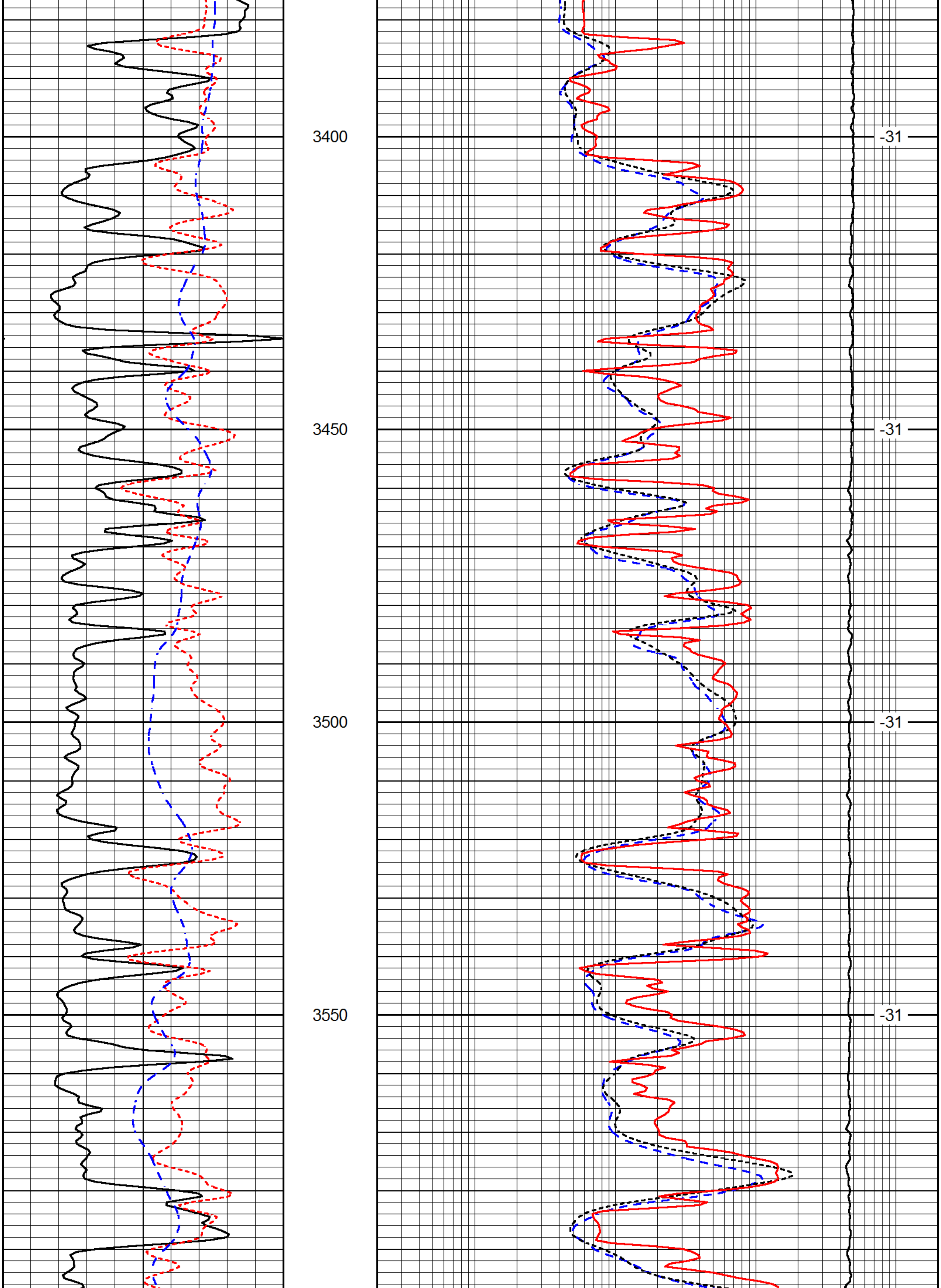
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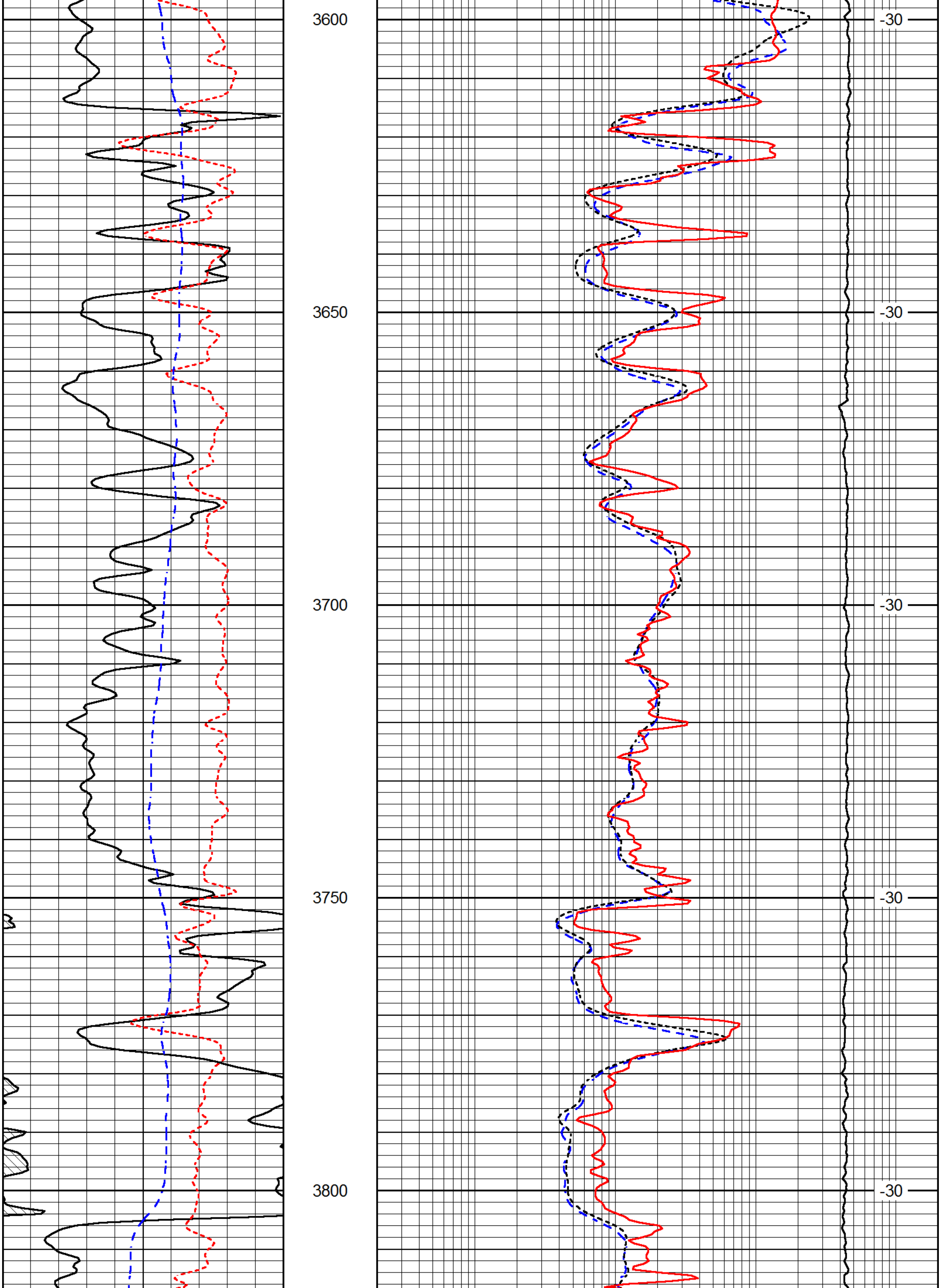
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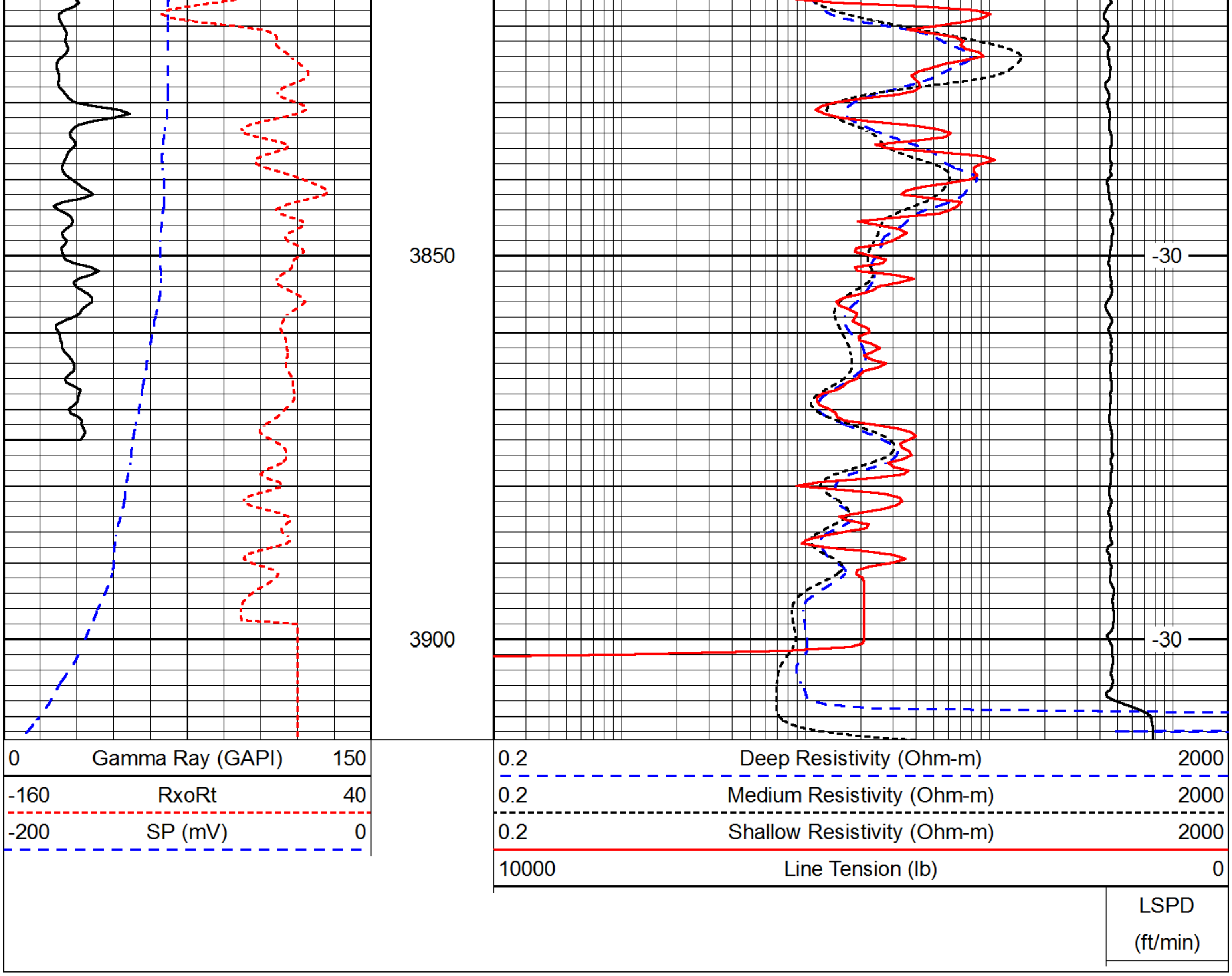
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0 Gamma Ray (GAPI) 150
-160 RxoRt 40
-200 SP (mV) 0
0.2 Deep Resistivity (Ohm-m) 2000
0.2 Medium Resistivity (Ohm-m) 2000
0.2 Shallow Resistivity (Ohm-m) 2000
10000 Line Tension (lb) 0
LSPD
(ft/min)

DUAL COMP POROSITY LOG

PIONEER
Pioneer Energy Services

Company	STRATAKAN EXPLORATION, INC
Well	ANDREWS #22-1
Field	KENILWORTH
County	STAFFORD
State	KANSAS

Company STRATAKAN EXPLORATION, INC.

Well ANDREWS #22-1

Field KENILWORTH

County STAFFORD State KANSAS

Location: API # : 15-185-23960-00-00

950' FNL & 2050' FWL

SEC 22 TWP 22S RGE 13W

Other Services: DIL/MEL

Permanent Datum GROUND LEVEL Elevation 1890'

Log Measured From KELLY BUSHING

Drilling Measured From KELLY BUSHING

Elevation: K.B. 1895', D.F. N/A, G.L. 1890'

Date	5/21/2016
Run Number	ONE
Type Log	CNL/CDL
Depth Driller	3910'
Depth Logger	3908'
Bottom Logged Interval	3879'
Top Logged Interval	2850'
Type Fluid In Hole	CHEMICAL
Salinity, PPM CL	3800
Density	8.7
Level	FULL
Max. Rec. Temp. F	115
Operating Rig Time	3 HOURS
Equipment -- Location	91 | COLBY
Recorded By	D. SCHMIDT
Witnessed By	JASON ALM

Borehole Record

Run No.	Bit	From	To
ONE	12.25"	00'	681'
TWO	7.875"	681'	TD

Casing Record

Size	Wgt.	From	To
8.625"	23#	00'	681'

<<< Fold Here >>>

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

GREAT BEND,
17 SOUTH TO 120 RD, 3/4 EAST,
SOUTH INTO

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

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

Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: D. SCHMIDT	Primary Witness: JASON ALM
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Database File	stratakan_andrews_22-1hd.db
Dataset Pathname	DIL/ststkml2
Presentation Format	cdl
Dataset Creation	Sat May 21 11:09:34 2016
Charted by	Depth in Feet scaled 1:600

0 Gamma Ray (GAPI) 150

6 Caliper (in) 16

30 Compensated Density (pu) -10

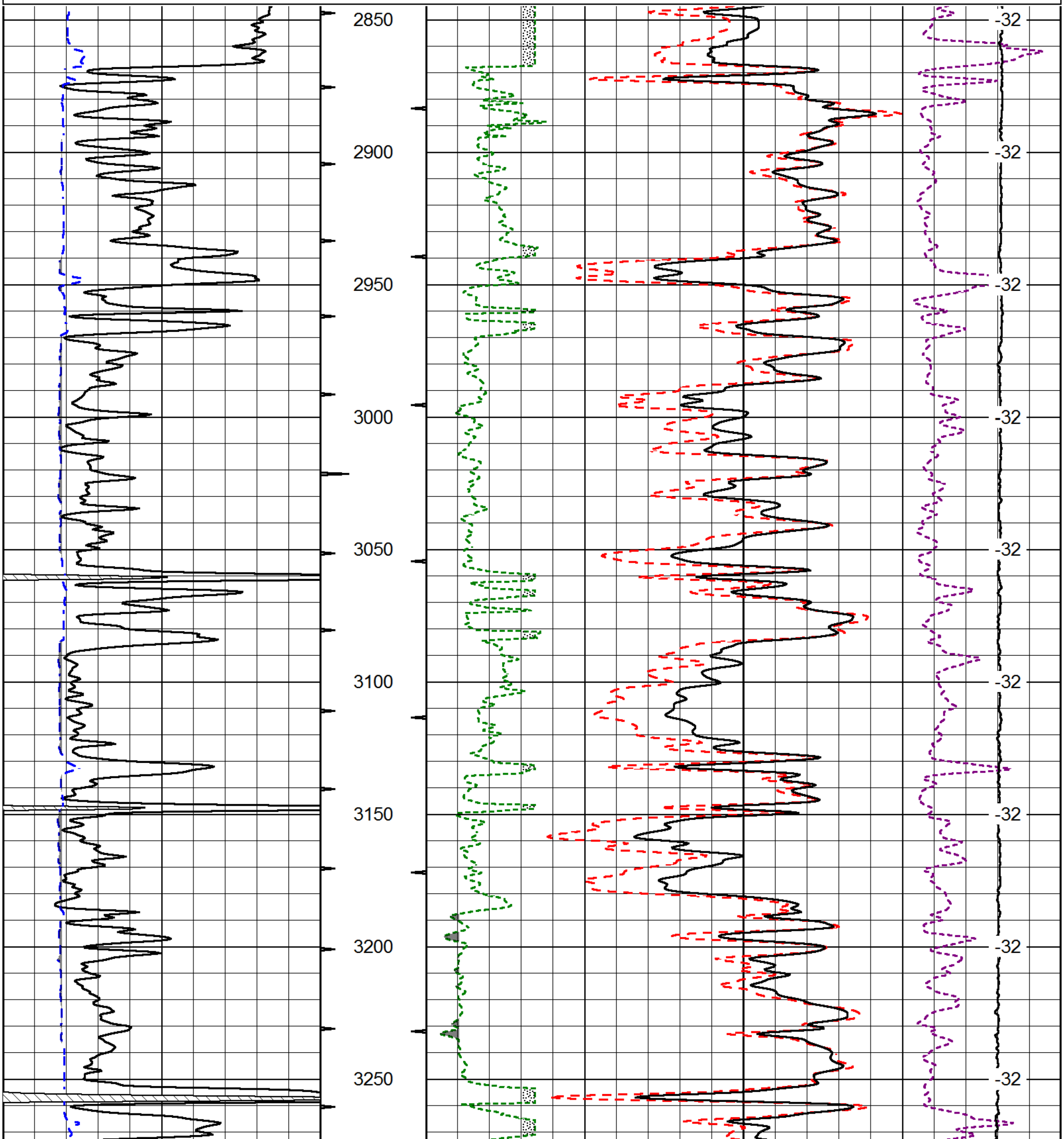
2 Bulk Density (g/cc) 3

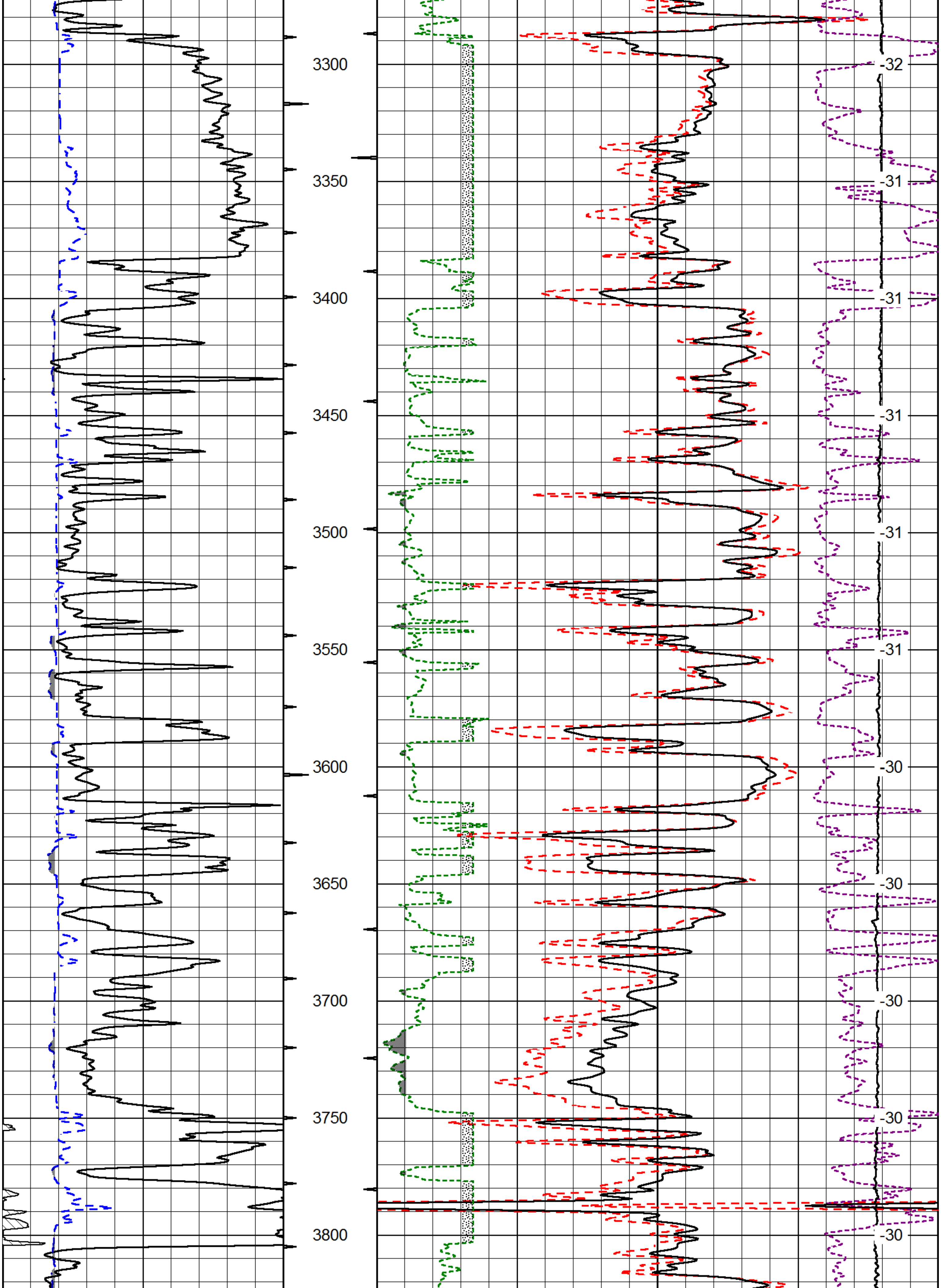
15000 Line Tension (lb) 0

2.625 DGA (g/cc) 3.425

-0.25 Correction (g/cc) 0.25

LSPD (ft/min)

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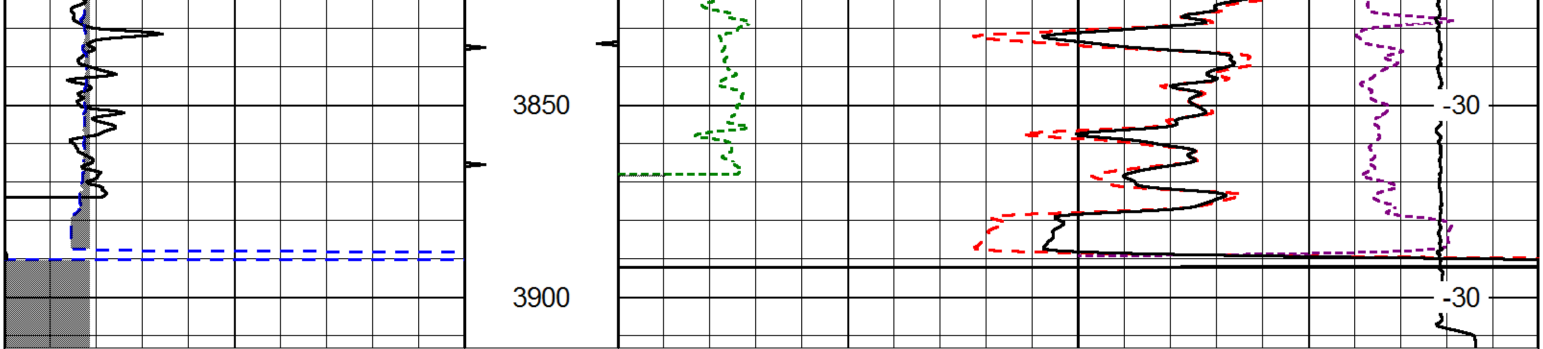


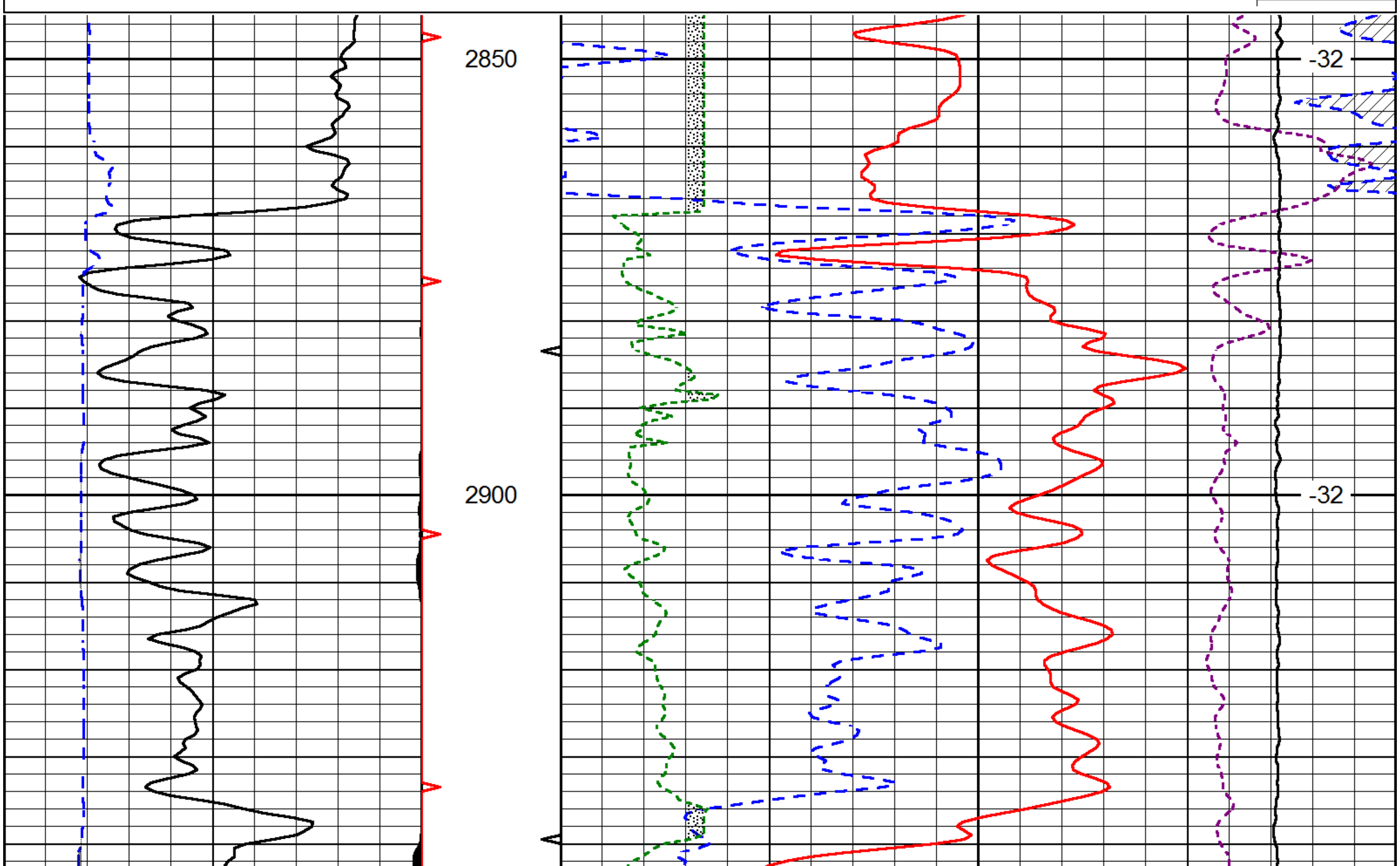
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

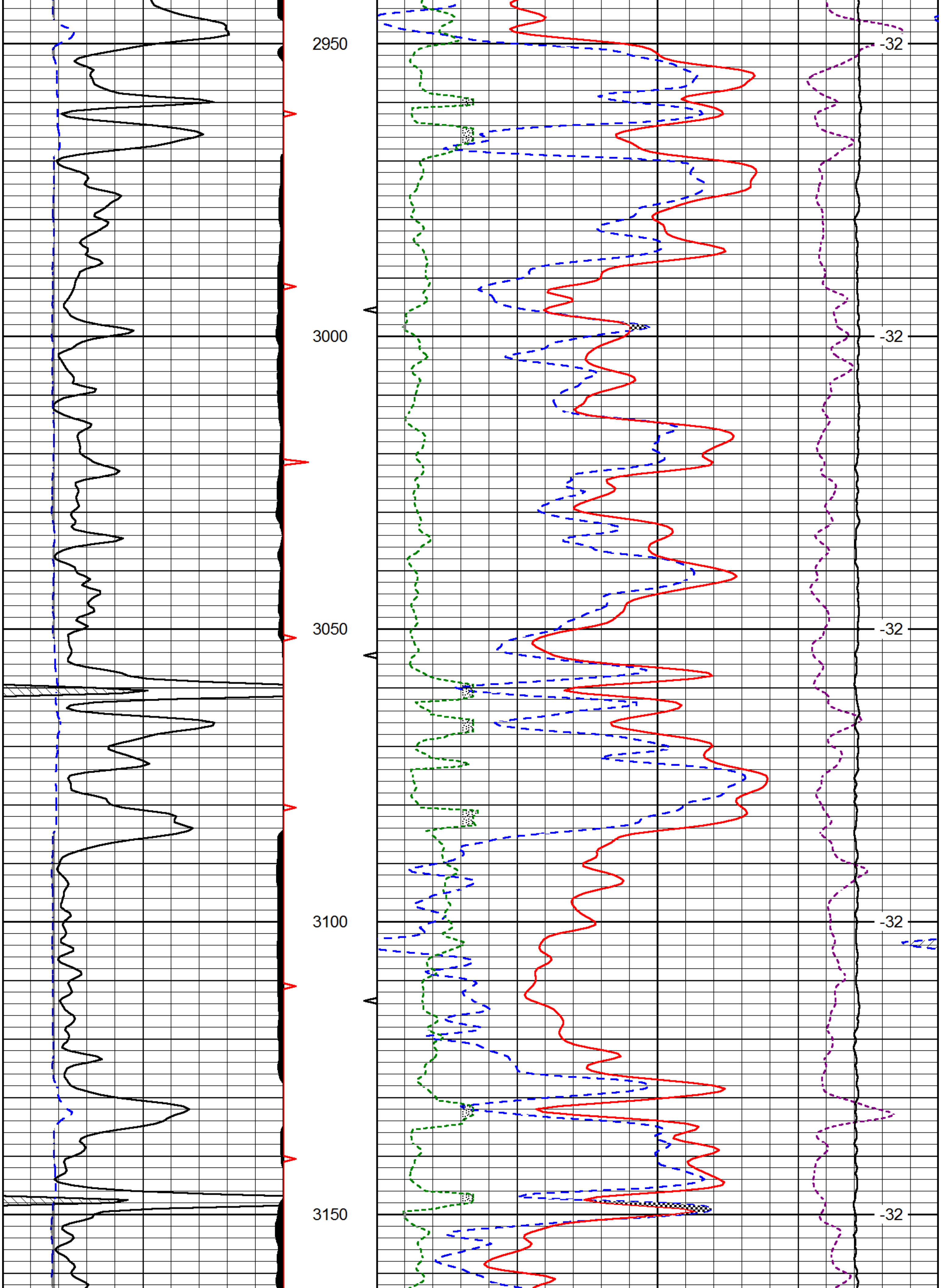
30	Compensated Density (pu)	-10
2	Bulk Density (g/cc)	3
15000	Line Tension (lb)	0
2.625	DGA (g/cc)	3.425
-0.25	Correction (g/cc)	0.25
	LSPD (ft/min)	

Database File	stratakan_andrews_22-1hd.db
Dataset Pathname	DIL/ststkml2
Presentation Format	cndlspec
Dataset Creation	Sat May 21 11:09:34 2016
Charted by	Depth in Feet scaled 1:240

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

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

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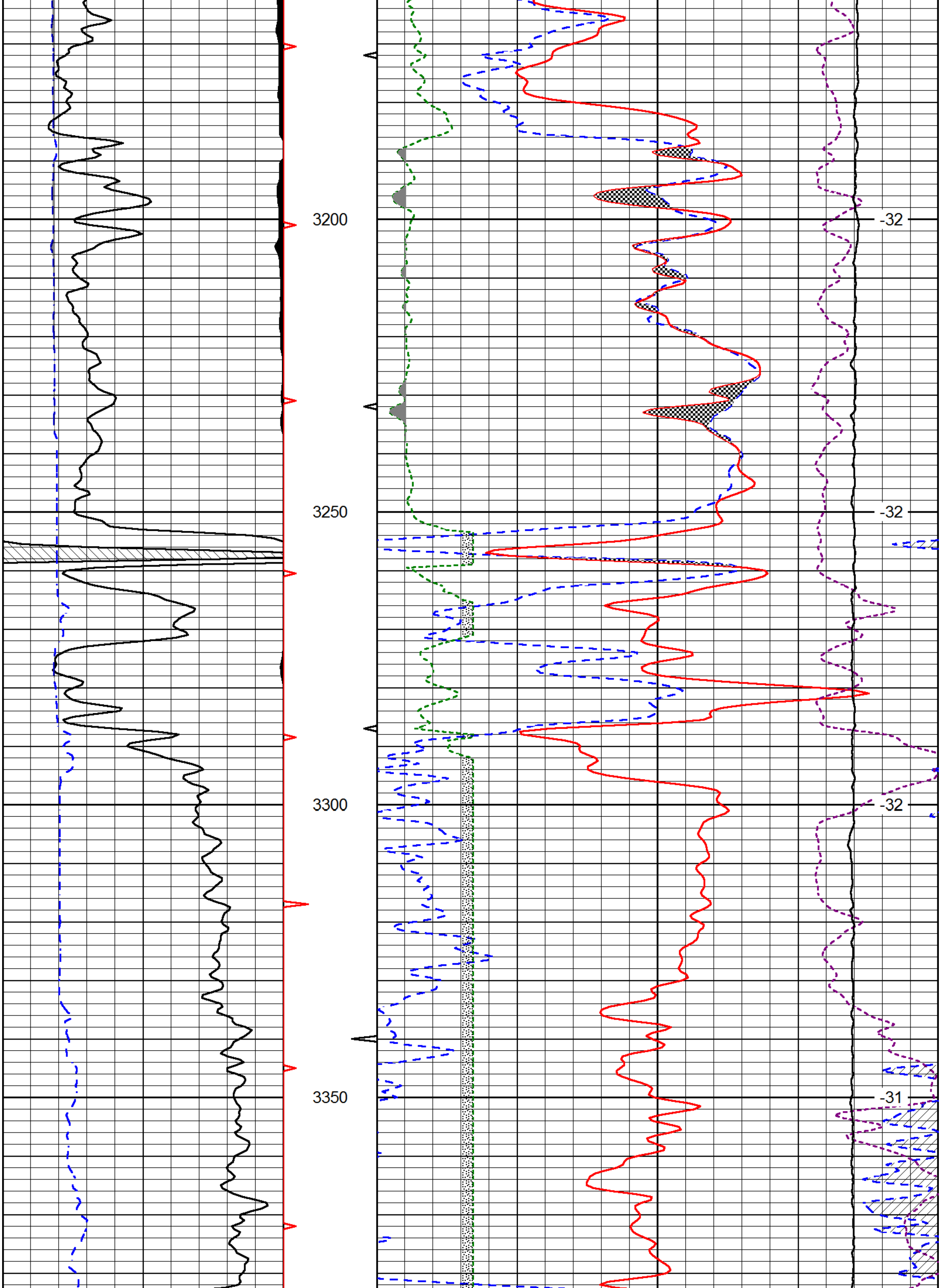
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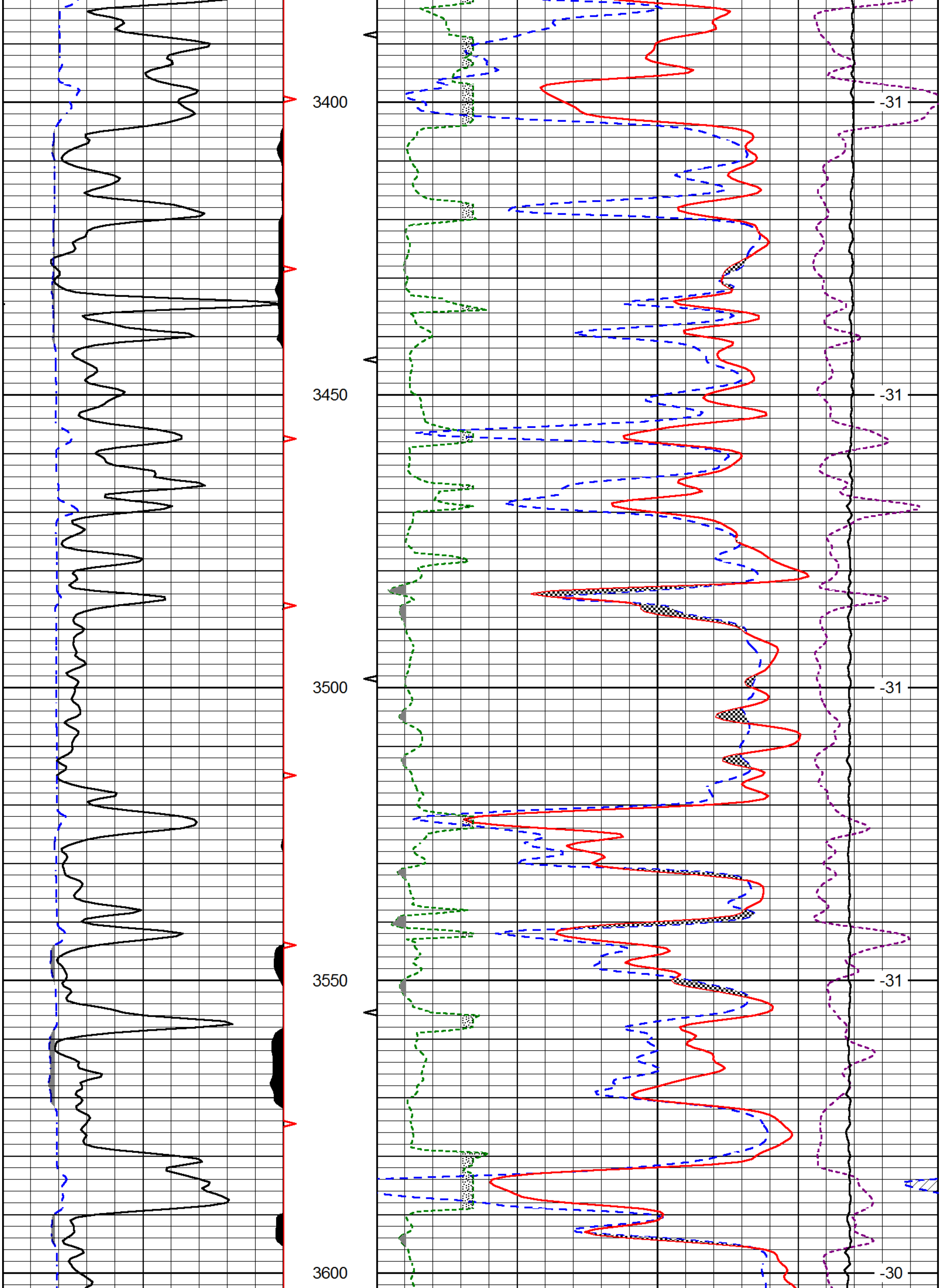

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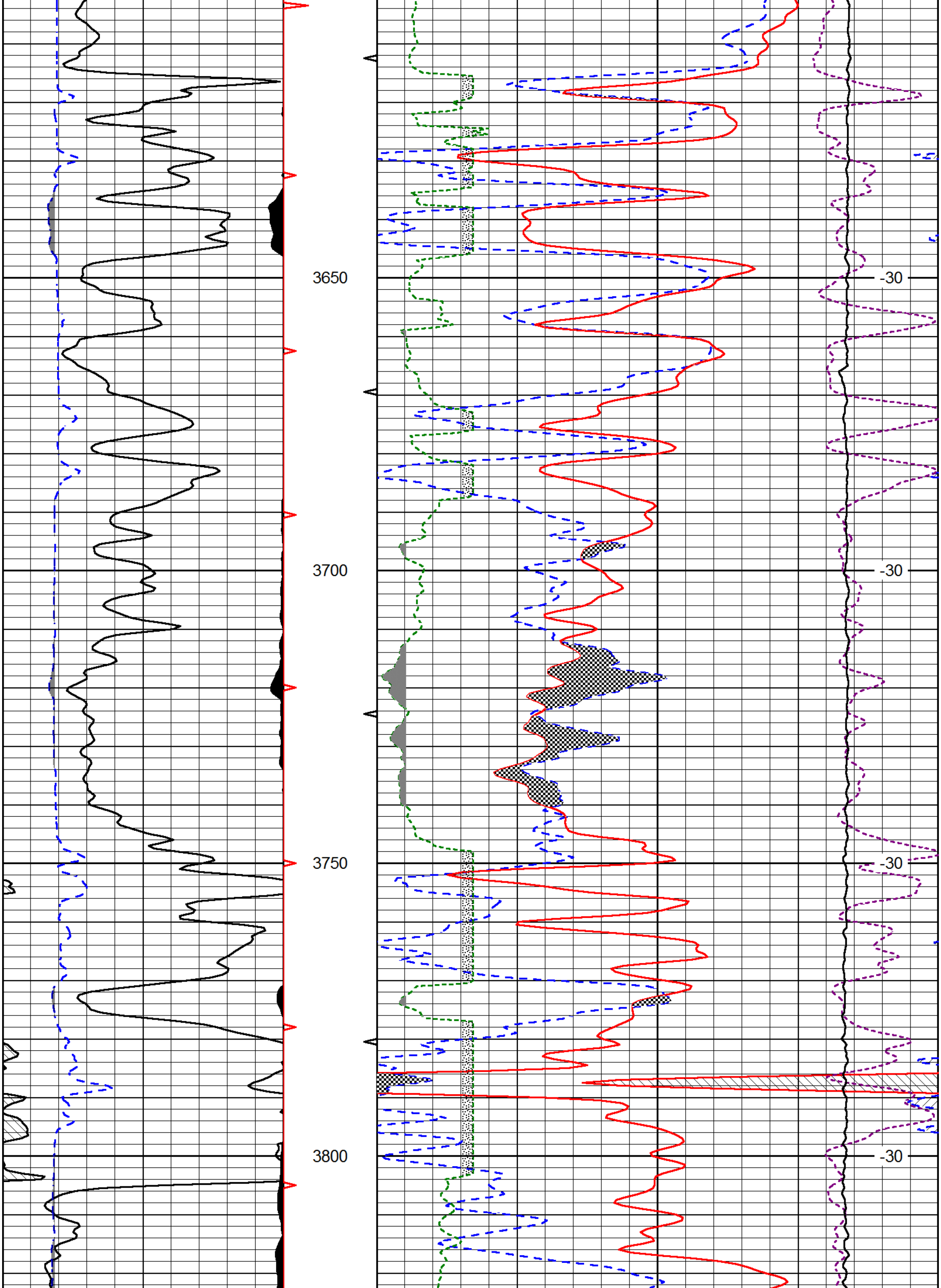
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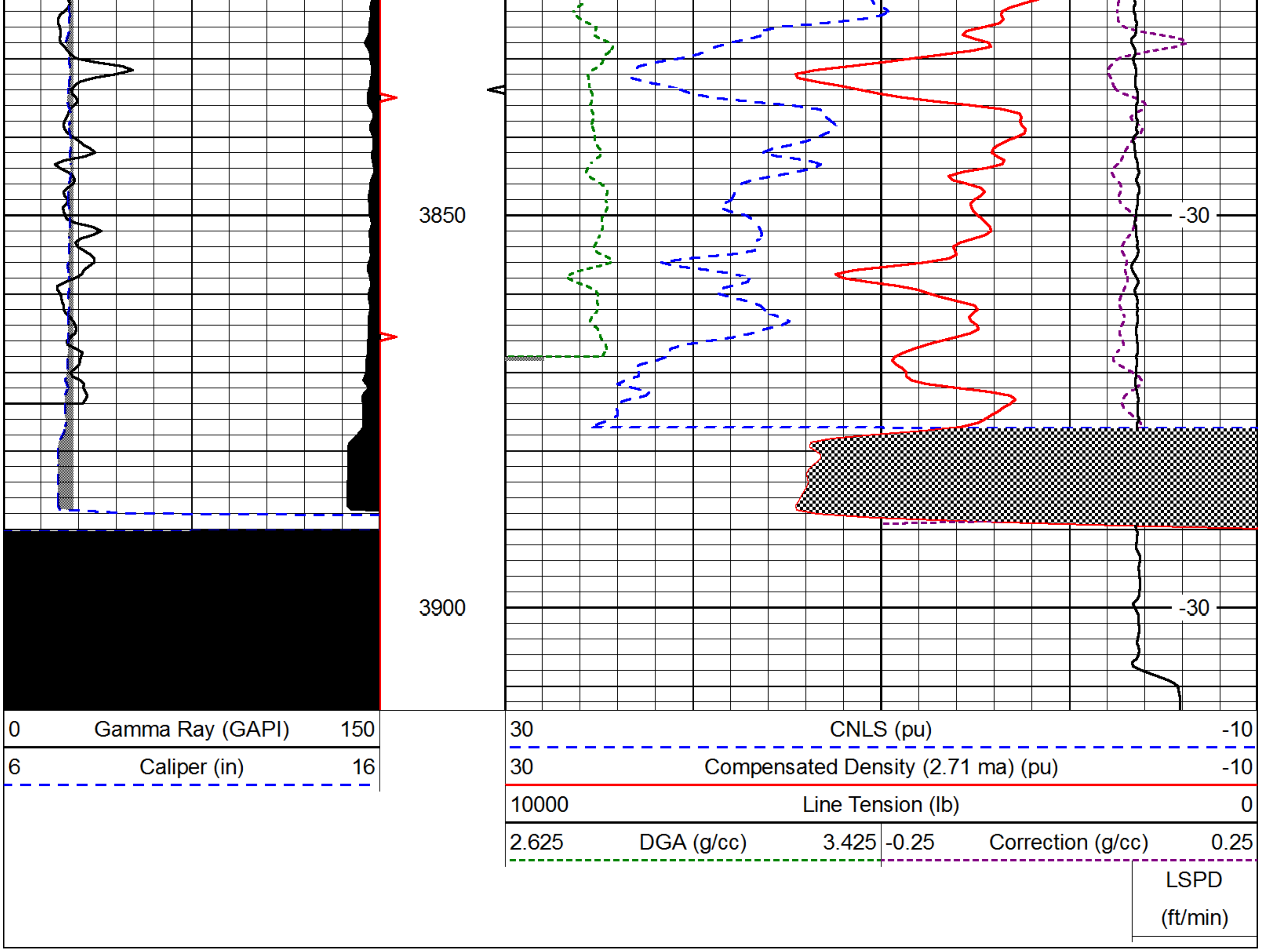

3850
3900
-30
-30
0 Gamma Ray (GAPI) 150
6 Caliper (in) 16
30 CNLS (pu) -10
30 Compensated Density (2.71 ma) (pu) -10
10000 Line Tension (lb) 0
2.625 DGA (g/cc) 3.425
-0.25 Correction (g/cc) 0.25
LSPD
(ft/min)

PIONEER
Pioneer Energy Services

Company	STRATAKAN EXPLORATION, INC
Well	ANDREWS #22-1
Field	KENILWORTH
County	STAFFORD
State	KANSAS

MICRORESISTIVITY LOG

Company	STRATAKAN EXPLORATION, INC.
Well	ANDREWS #22-1
Field	KENILWORTH
County	STAFFORD
State	KANSAS

Location: API # : 15-185-23960-00-00
950' FNL & 2050' FWL
SEC 22 TWP 22S RGE 13W

Other Services
CNL/CDL
DIL

Permanent Datum GROUND LEVEL Elevation 1890'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1895'
D.F. N/A
G.L. 1890'

Date	5/21/2016			
Run Number	TWO			
Depth Driller	3910'			
Depth Logger	3908'			
Bottom Logged Interval	3907'			
Top Log Interval	2850'			
Casing Driller	8.625" @ 681'			
Casing Logger	679'			
Bit Size	7.875"			
Type Fluid in Hole	CHEMICAL			
Salinity,ppm CL	3800			
Density / Viscosity	8.7 / 80			
pH / Fluid Loss	11.0 / 7.2			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	0.40 @ 60			
Rmf @ Meas. Temp	0.30 @ 60			
Rmc @ Meas. Temp	0.54 @ 60			
Source of Rmf / Rmc	CHARTS			
Rm @ BHT	0.21 @ 115			
Operating Rig Time	3 HOURS			
Max Rec. Temp. F	115			
Equipment Number	91			
Location	COLBY			
Recorded By	D. SCHMIDT			
Witnessed By	JASON ALM			

<<< Fold Here >>>

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

GREAT BEND,
17 SOUTH TO 120 RD, 3/4 EAST,
SOUTH INTO

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

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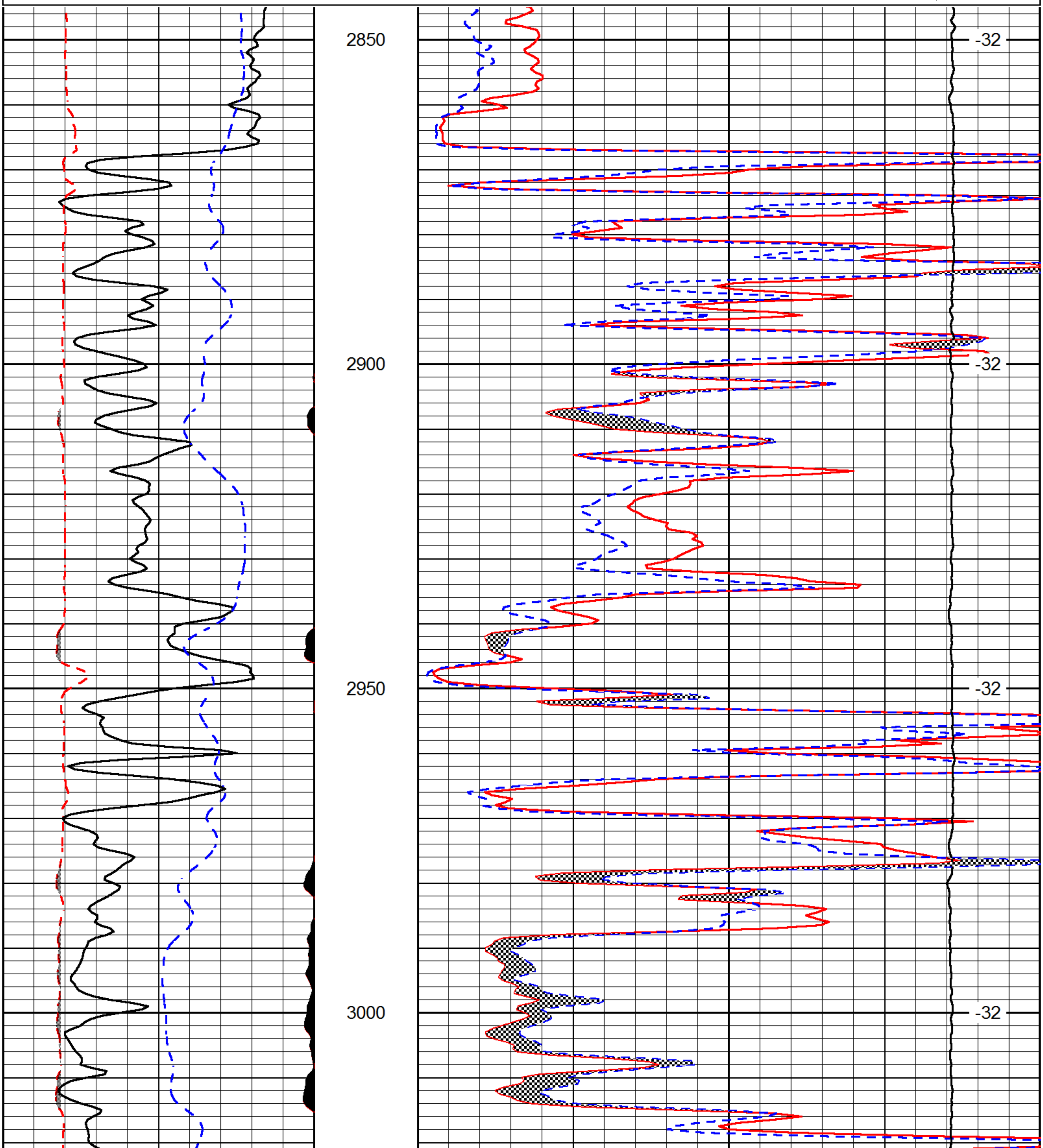
Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: D. SCHMIDT	Primary Witness: JASON ALM
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

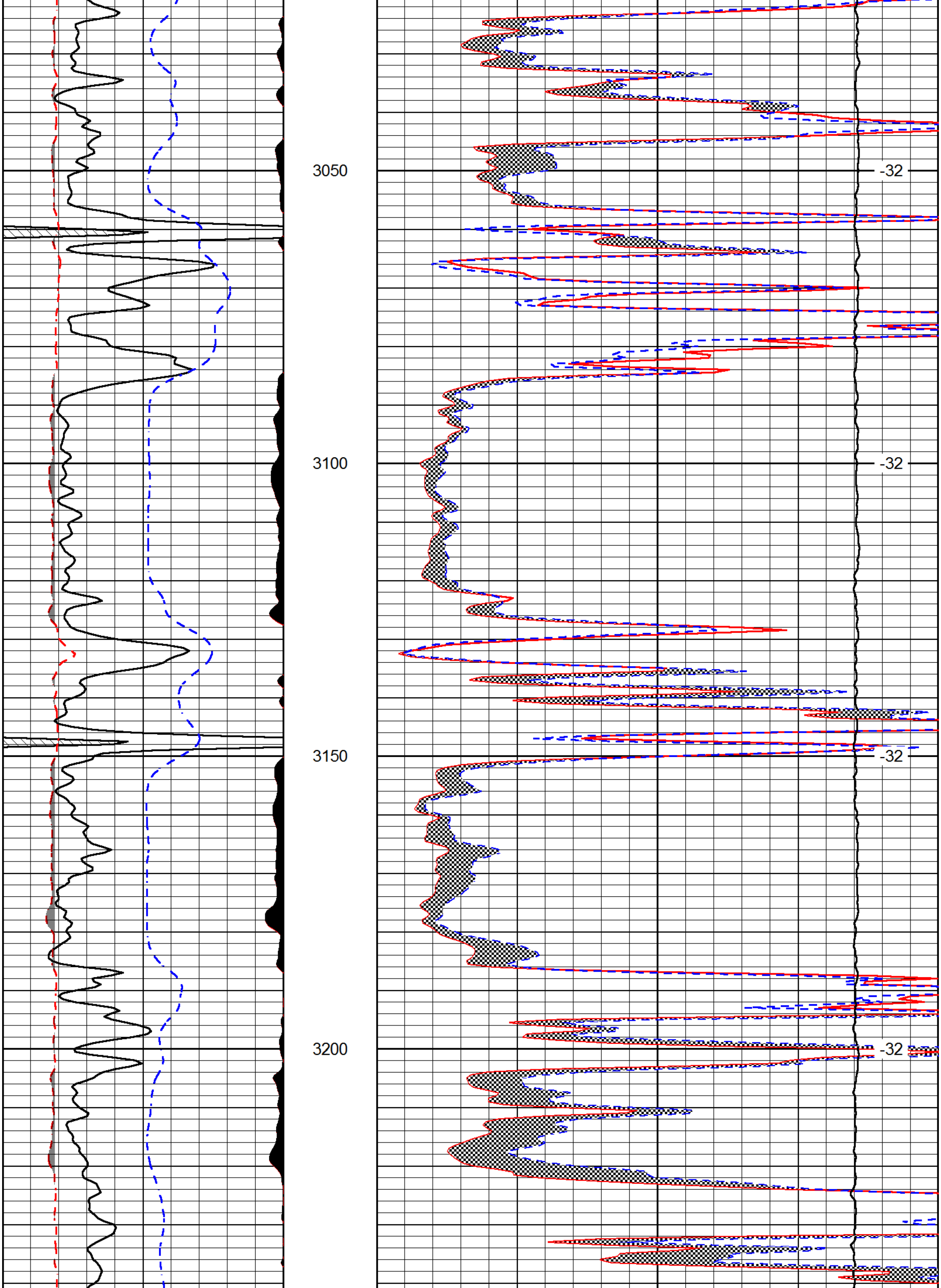
Database File	stratakan_andrews_22-1hd.db
Dataset Pathname	DIL/ststkml2
Presentation Format	micro
Dataset Creation	Sat May 21 11:09:34 2016
Charted by	Depth in Feet scaled 1:240

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

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

LSPD (ft/min)

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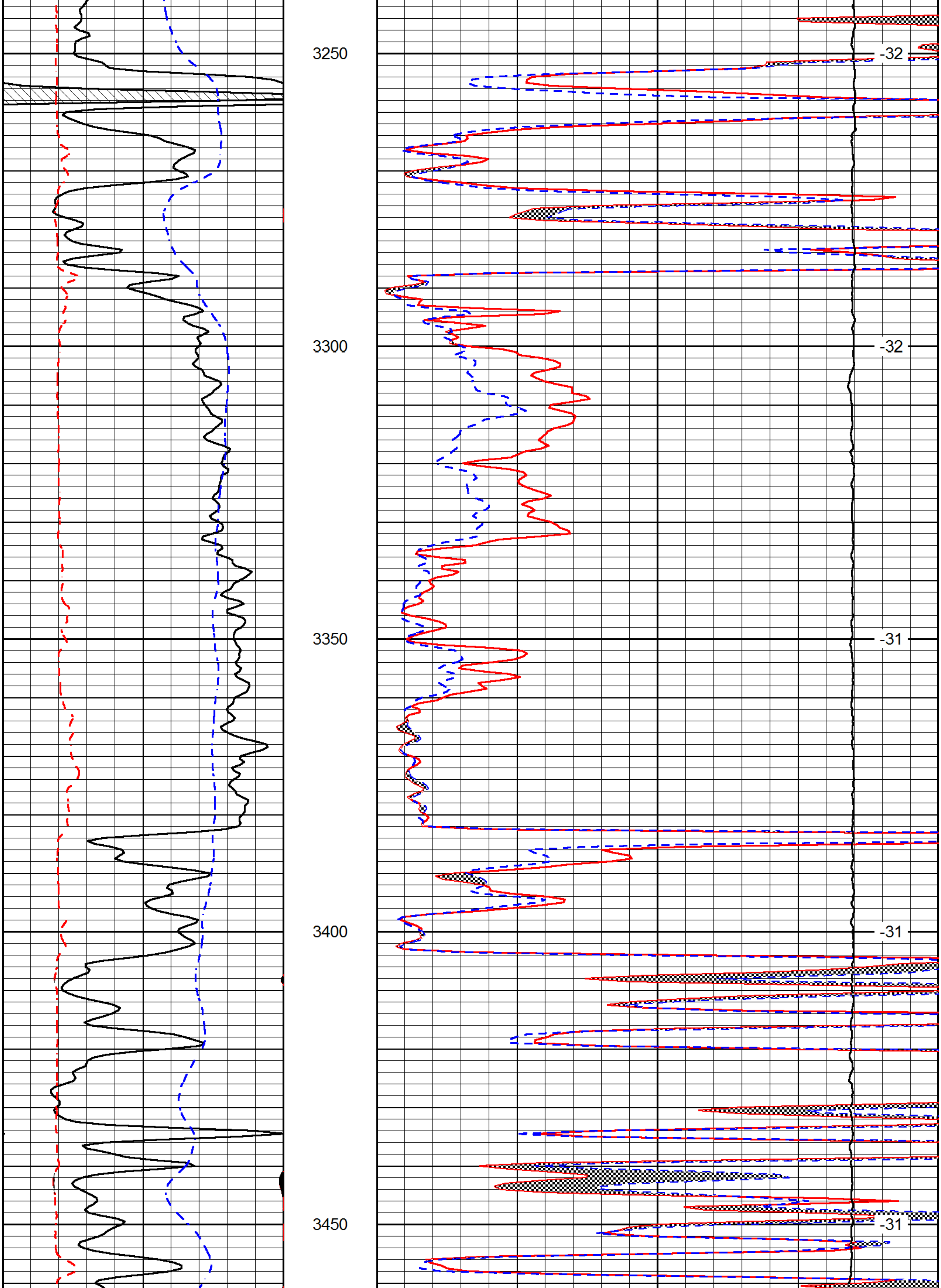
-32
3100
-32
3150
-32
3200
-32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-32
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-31
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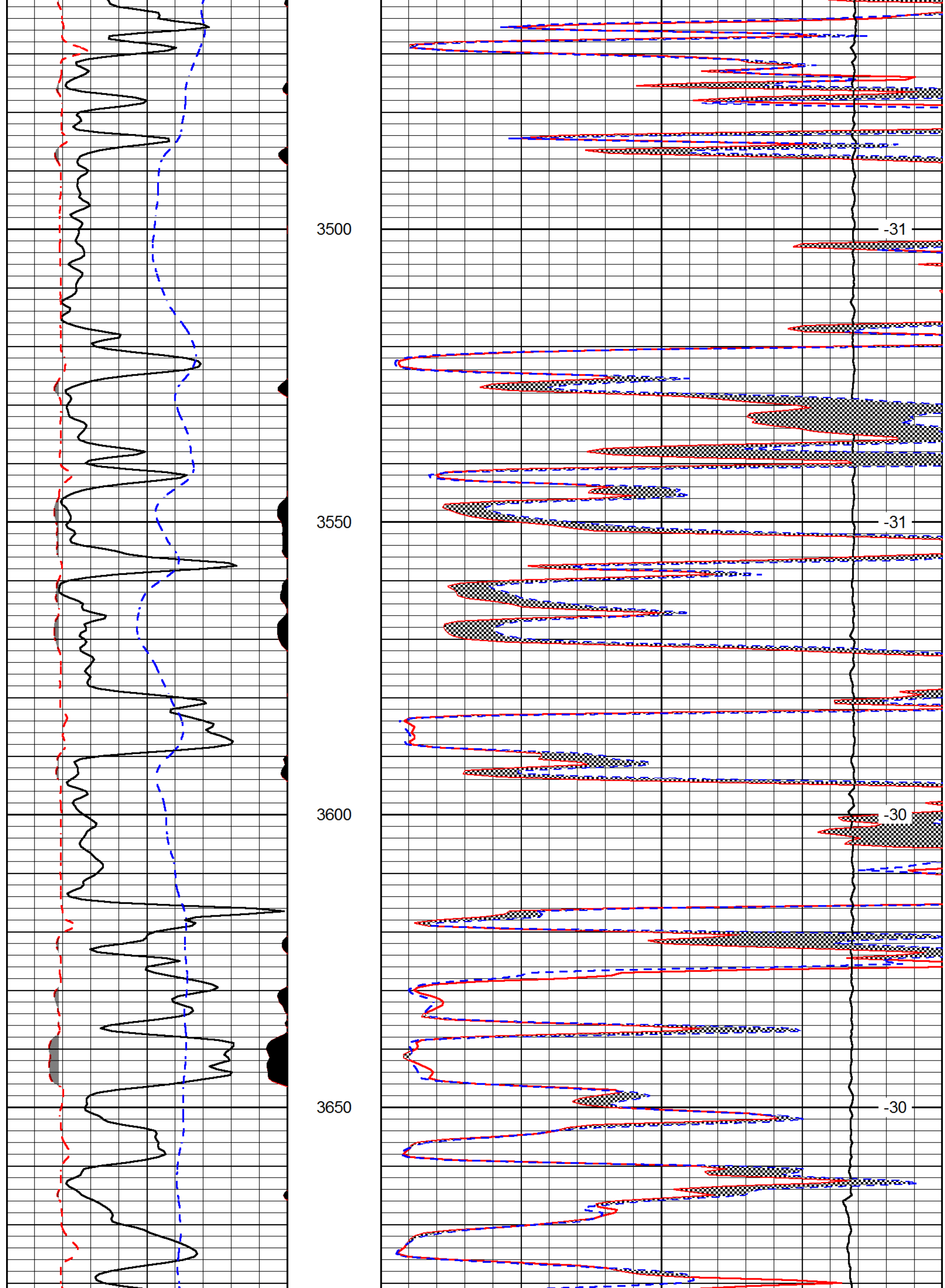
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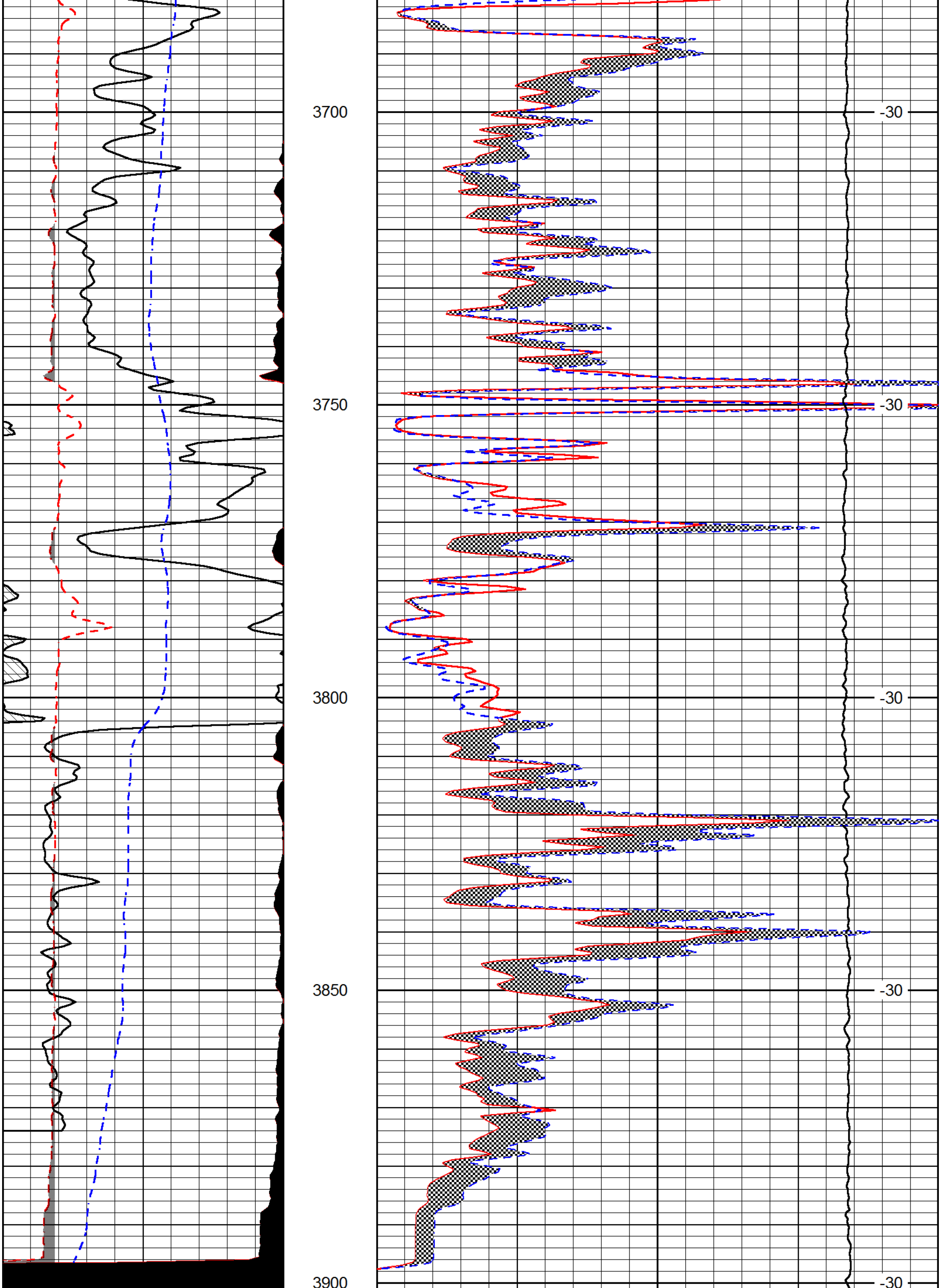
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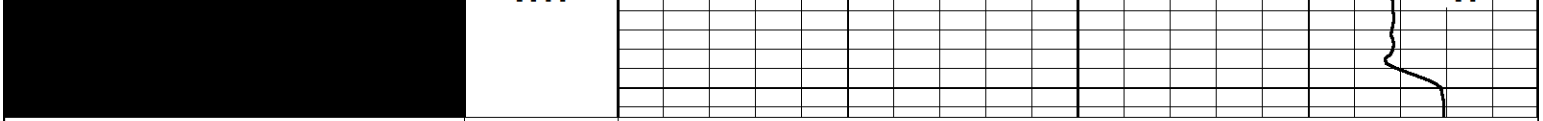

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