

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

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

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

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

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Thomas Garner, Inc.
Well Name	DENNIS 1
Doc ID	1380288

All Electric Logs Run

Dual Induction
Compensated Neutron
Gamma Ray
Sonic
Micro





**Joshua R. Austin**  
**Petroleum Geologist**  
report for  
**Thomas Garner, Inc.**



**COMPANY:** Thomas Garner, Inc.

**LEASE:** Dennis #1

**FIELD:** Leiss Northwest

**LOCATION:** 416' FSL & 1733' FEL (NW-SE-SW-SE)

**SEC:** 15    **TWSP:** 25s    **RGE:** 13w

**COUNTY:** Stafford    **STATE:** Kansas

**KB:** 1938'    **GL:** 1927'

**API #** 15-185-24005-00-00

**CONTRACTOR:** Sterling Drilling Company (Rig #4)

**Spud:** 11/24/2017                      **Comp:** 12/01/2017

**RTD:** 4282'                              **LTD:** 4274'

**Mud Up:** 3081'                      **Type Mud:** Chemical was displaced

**Samples Saved From:** 3400' to RTD

**Drilling Time Kept From:** 3400' to RTD

**Samples Examined From:** 3400' to RTD

**Geological Supervision From:** 3400' to RTD

**Geologist on Well:** Josh Austin

**Surface Casing:** 8 5/8" @ 321'

**Production Casing:** 5 1/2" @ 4276'

**Electronic Surveys:** Pioneer Energy Services

**NOTES**

On the basis of the high structural position, positive drill stem test and after reviewing the electric logs it was recommended by all parties involved in the Dennis #1 to run 5 1/2" production casing to open hole complete the Arbuckle. Before plugging the well the following zones should be tested:

Simspon Sand 4210-4218  
Viola 4098-4102  
Lansing 'H' 3798-3804

**Thomas Garner, Inc**

# well comparison sheet

DRILLING WELL					COMPARISON WELL				COMPARISON WELL				COMPARISON WELL				
Dennis #1					Teichman #1-15 NW-NE-SE Sec 15-25s-13w				McCandless NW-NE-NE Sec 22-25s-13w				Roy Russell #2 SW-NE-SE Sec 15-25s-13w				
1938 KB					1933 KB				1927 KB				1931 KB				
					Structural Relationship				Structural Relationship				Structural Relationship				
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	
Anhydrite	786	1152	N/A	N/A	782	1151	1							779	1148	4	
Heebner	3486	-1548	3486	-1548	3483	-1550	2	2	3484	-1557	9	9		3484	-1557	9	9
Toronto	3504	-1566	3502	-1564	3500	-1567	1		3504	-1577	11						
Douglas	3526	-1588	3523	-1585	3521	-1588	0										
Brown Lime	3636	-1698	3631	-1693	3630	-1697	-1	4									
Lansing	3666	-1728	3662	-1724	3661	-1728	0	4	3662	-1735	7	11		3660	-1733	5	9
BKC	3946	-2008	3944	-2006	3943	-2010	2	4	3937	-2010	2	4					
Mississippi	4023	-2085	4024	-2086	4024	-2091	6	5									
Viola	4084	-2146	4083	-2145	4082	-2149	3	4	4111	-2184	38	39		4089	-2162	16	17
Simpson Shale	4196	-2258	4204	-2266	4203	-2270	12	4	4200	-2273	15	7		4264	-2337	79	71
Simpson Sand	4209	-2271	4210	-2272	4212	-2279	8	7	4213	-2286	15	14					
Arbuckle	4276	-2338	N/A	N/A	4277	-2344	6	N/A						4324	-2397	59	N/A
Total Depth	4282	-2344	4274	-2336	4280	-2347			4252	-2325				4353	-2426		



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Thomas Garner

**15/25S/13W Stafford, KS**

**Dennis #1**

Job Ticket: 62013

DST#: 1

ATTN:

Test Start: 2017.11.29 @ 07:06:00

### GENERAL INFORMATION:

Formation: Viola	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Jimmy Ricketts
Time Tool Opened: 09:42:20	Unit No: 80
Time Test Ended: 14:50:09	Reference Elevations: 1938.00 ft (KB)
Interval: 4100.00 ft (KB) To 4135.00 ft (KB) (TVD)	1927.00 ft (CF)
Total Depth: 4135.00 ft (KB) (TVD)	KB to GR/CF: 11.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair

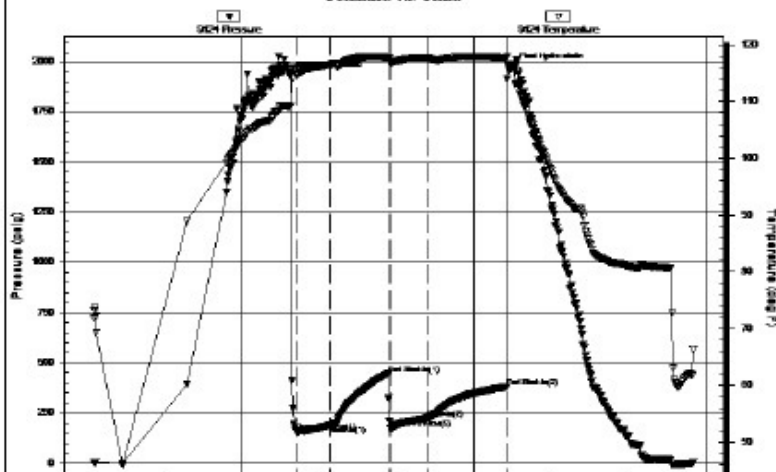
### Serial #: 9124

Inside

Press@RunDepth: 221.98 psig @ 4101.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2017.11.29	End Date: 2017.11.29
Start Time: 07:06:05	End Time: 14:50:09
	Last Calib.: 2017.11.29
	Time On Btm: 2017.11.29 @ 09:37:50
	Time Off Btm: 2017.11.29 @ 12:30:00

**TEST COMMENT:** IF - Strong blow throughout initial flow period. Gas to surface 6 minutes into initial flow period.  
 IS - 3 inch blow back during initial shut-in period.  
 FF - Strong blow throughout final flow period.  
 FS - 5 inch blow back during final shut-in period.

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1928.22	109.18	Initial Hydro-static
5	153.60	114.83	Open To Flow (1)
32	185.83	116.48	Shut-In(1)
76	444.21	117.66	End Shut-In(1)
79	170.57	116.69	Open To Flow (2)
107	221.98	117.66	Shut-In(2)
168	377.62	117.74	End Shut-In(2)
173	1966.98	116.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	Gassy oil cut mud 15%G 17%M & 68%O	2.45
160.00	Gassy clean oil 100%O	2.24
0.00	GTS	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	7.00	33.95
Last Gas Rate	0.13	11.00	9.51
Max. Gas Rate	0.13	11.00	9.51



**TRILOBITE TESTING, INC.**

DRILL STEM TEST REPORT

Thomas Garner

15/25S/13W Stafford, KS

St. John, KS  
67576-1652

Dennis #1

Job Ticket: 62014

DST#: 2

ATTN: Tom Garner/Josh Aust

Test Start: 2017.11.30 @ 05:06:02

GENERAL INFORMATION:

Formation: Simpson Sand

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:14:22

Time Test Ended: 12:24:11

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: 4182.00 ft (KB) To 4246.00 ft (KB) (TVD)

Total Depth: 4246.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1938.00 ft (KB)

1927.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 9124

Inside

Press@RunDepth: 204.49 psig @ 4183.00 ft (KB)

Start Date: 2017.11.30

End Date: 2017.11.30

Start Time: 05:06:07

End Time: 12:24:11

Capacity: 8000.00 psig

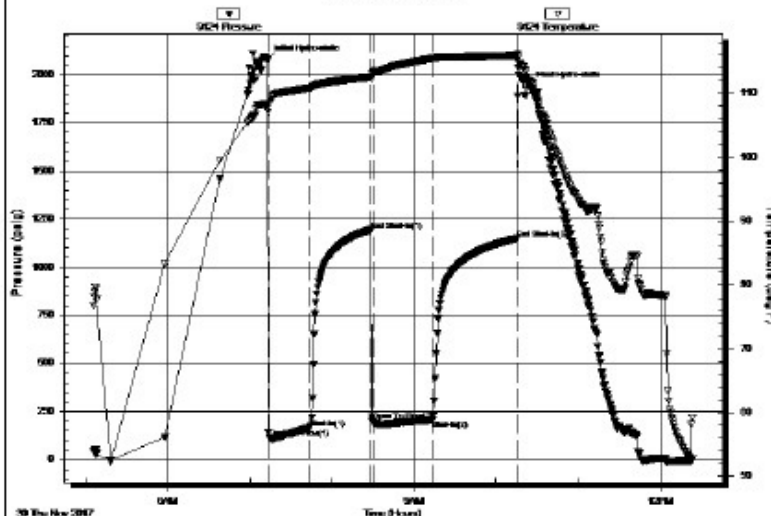
Last Calib.: 1899.12.30

Time On Btm: 2017.11.30 @ 07:13:02

Time Off Btm: 2017.11.30 @ 10:24:11

TEST COMMENT: IF - Weak blow building to strong blow 26 minutes into initial flow period.  
IS - Surface blow back during initial shut-in period.  
FF - Weak blow building to strong blow 20 minutes into final flow period.  
FS - 5 inch blow back during final shut-in period.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2075.68	108.33	Initial Hydro-static
2	111.55	108.30	Open To Flow (1)
31	164.26	110.92	Shut-In(1)
76	1192.14	112.54	End Shut-In(1)
77	199.06	113.15	Open To Flow (2)
121	204.49	115.47	Shut-In(2)
183	1149.24	115.94	End Shut-In(2)
192	1938.99	111.89	Final Hydro-static

Recovery

Gas Rates

Recovery

Length (ft)	Description	Volume (bbl)
125.00	GO&HMCW 7%G 2%O 47%W 44%M	0.61
125.00	GO&HWCW 11%G 6%O 22%W 61%M	0.92
65.00	VGHOCM 51%G 21%O 28%M	0.91
305.00	Gas in pipe 100%G	4.28

Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Thomas Garner  
305 East 7th  
St. John, KS  
67576-1652  
ATTN: Tom Garner/Josh Aust

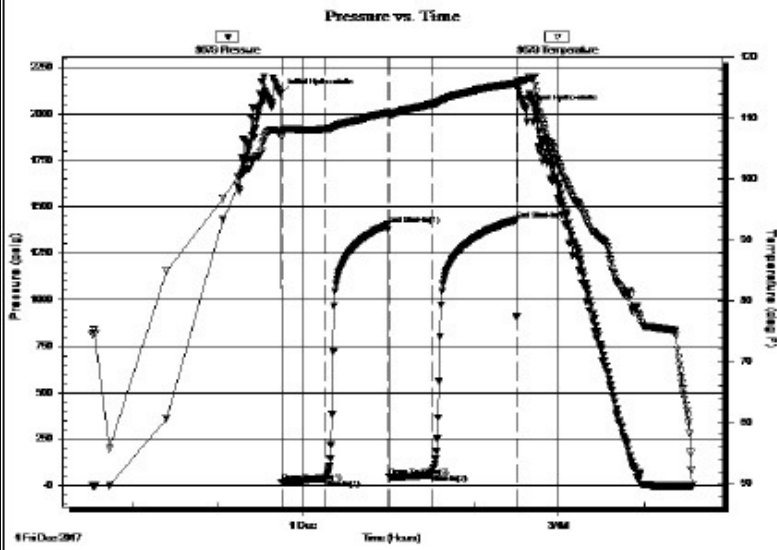
**15/25S/13W Stafford, KS**  
**Dennis #1**  
Job Ticket: 62015      DST#: 3  
Test Start: 2017.11.30 @ 21:31:00

**GENERAL INFORMATION:**

Formation: **Arbuckle**  
 Deviated: **No Whipstock**      ft (KB)  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Time Tool Opened: **23:44:30**  
 Tester: **Jimmy Ricketts**  
 Time Test Ended: **04:34:20**  
 Unit No: **80**  
 Interval: **4276.00 ft (KB) To 4282.00 ft (KB) (TVD)**  
 Reference Elevations: **1938.00 ft (KB)**  
 Total Depth: **4282.00 ft (KB) (TVD)**  
 KB to GR/CF: **1927.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 KB to GR/CF: **11.00 ft**

**Serial #: 8679**      **Outside**  
 Press@RunDepth: **61.85 psig @ 4277.00 ft (KB)**  
 Capacity: **8000.00 psig**  
 Start Date: **2017.11.30**      End Date: **2017.12.01**  
 Last Calib.: **1899.12.30**  
 Start Time: **21:31:05**      End Time: **04:34:20**  
 Time On Btm: **2017.11.30 @ 23:43:40**  
 Time Off Btm: **2017.12.01 @ 02:36:39**

TEST COMMENT: IF - Weak blow building to 7 inches initial flow period.  
 FF - Weak blow building to 6 inches final flow period.



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2107.02	107.96	Initial Hydro-static
1	19.56	106.76	Open To Flow (1)
32	38.62	108.20	Shut-In(1)
76	1403.92	110.92	End Shut-In(1)
77	44.75	110.56	Open To Flow (2)
107	61.85	112.26	Shut-In(2)
167	1429.51	115.75	End Shut-In(2)
173	2020.80	116.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Heavy oil cut mud 44%O 56%M	0.07
110.00	Clean oil 100%O	0.54

Gas Rates

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



110.00	Clear Oil 100%O	0.94

**ROCK TYPES**

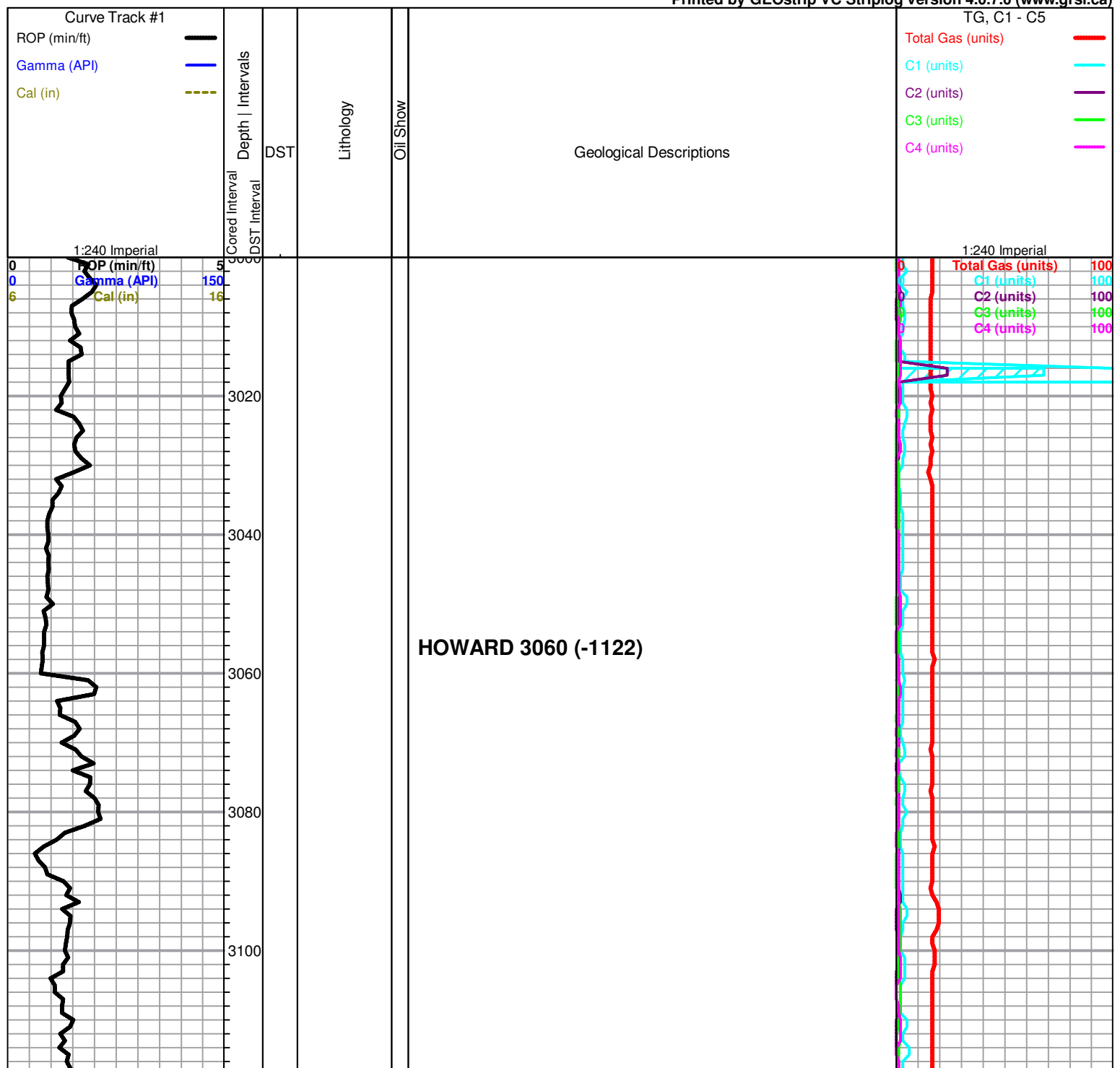
Cht	Dolsec	shale, grn	Carbon Sh	Slstst
Cht vari	Lmst fw7>	shale, gry	Ss	

**OTHER SYMBOLS**

**DST**

- DST Int
- DST alt
- Core
- tail pipe

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

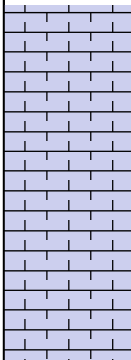


3120  
3140  
3160  
3180  
3200  
3220  
3240  
3260  
3280  
3300  
3320

### TOPEKA 3150 (-1212)

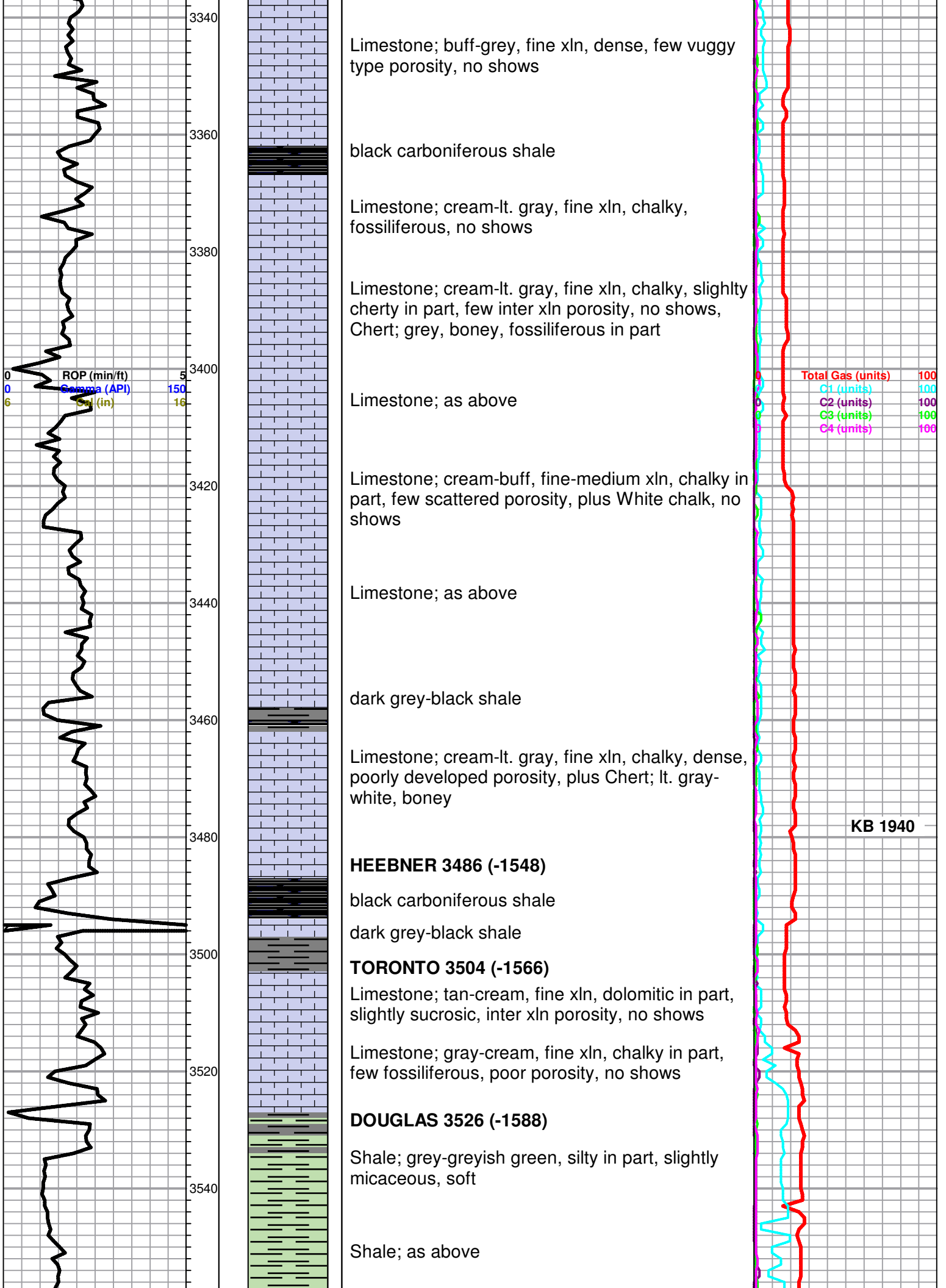
ROP (min/ft) 5  
Gamma (API) 150  
Cal (in) 16

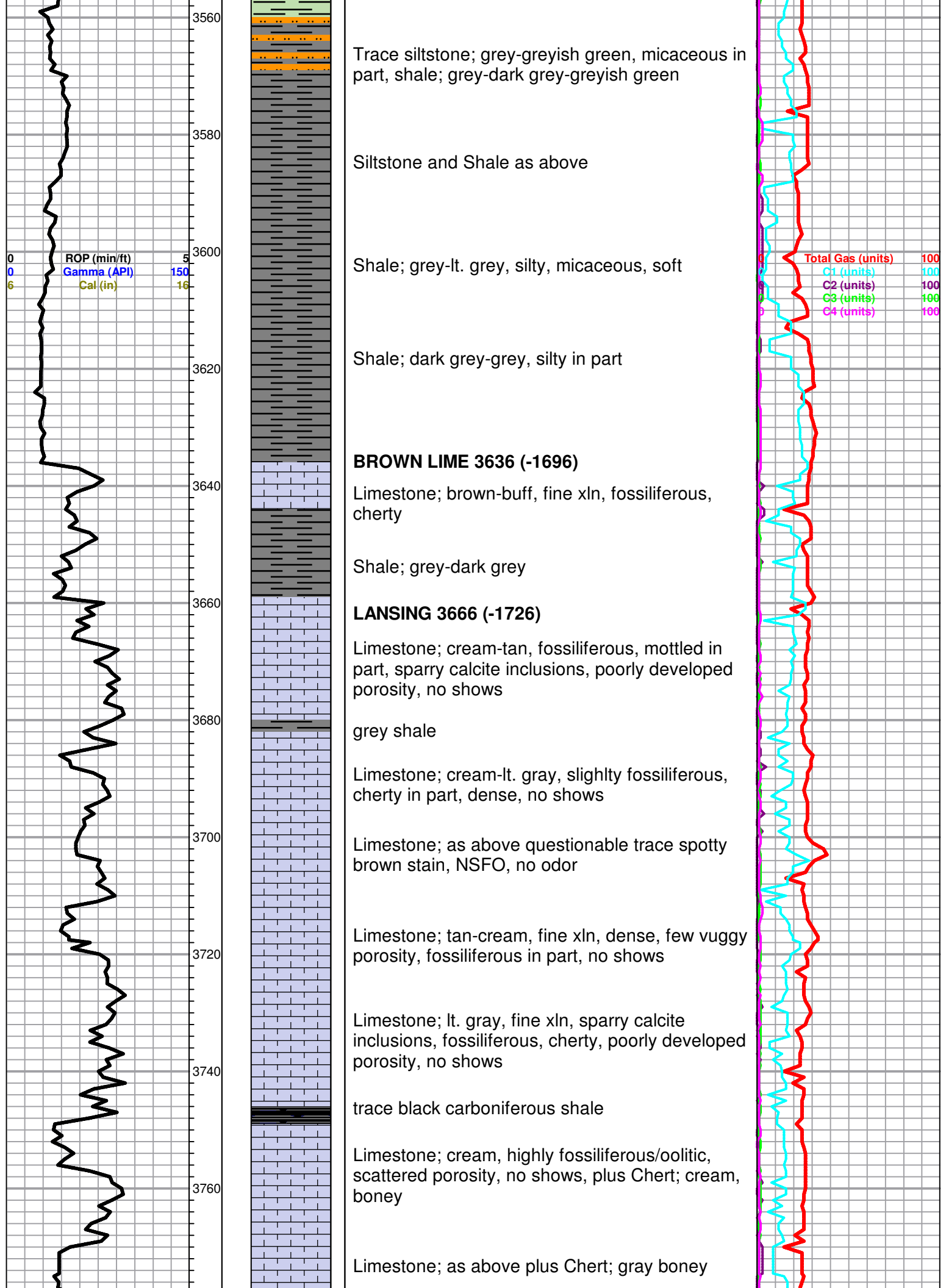
Total Gas (units) 100  
C1 (units) 100  
C2 (units) 100  
C3 (units) 100  
C4 (units) 100

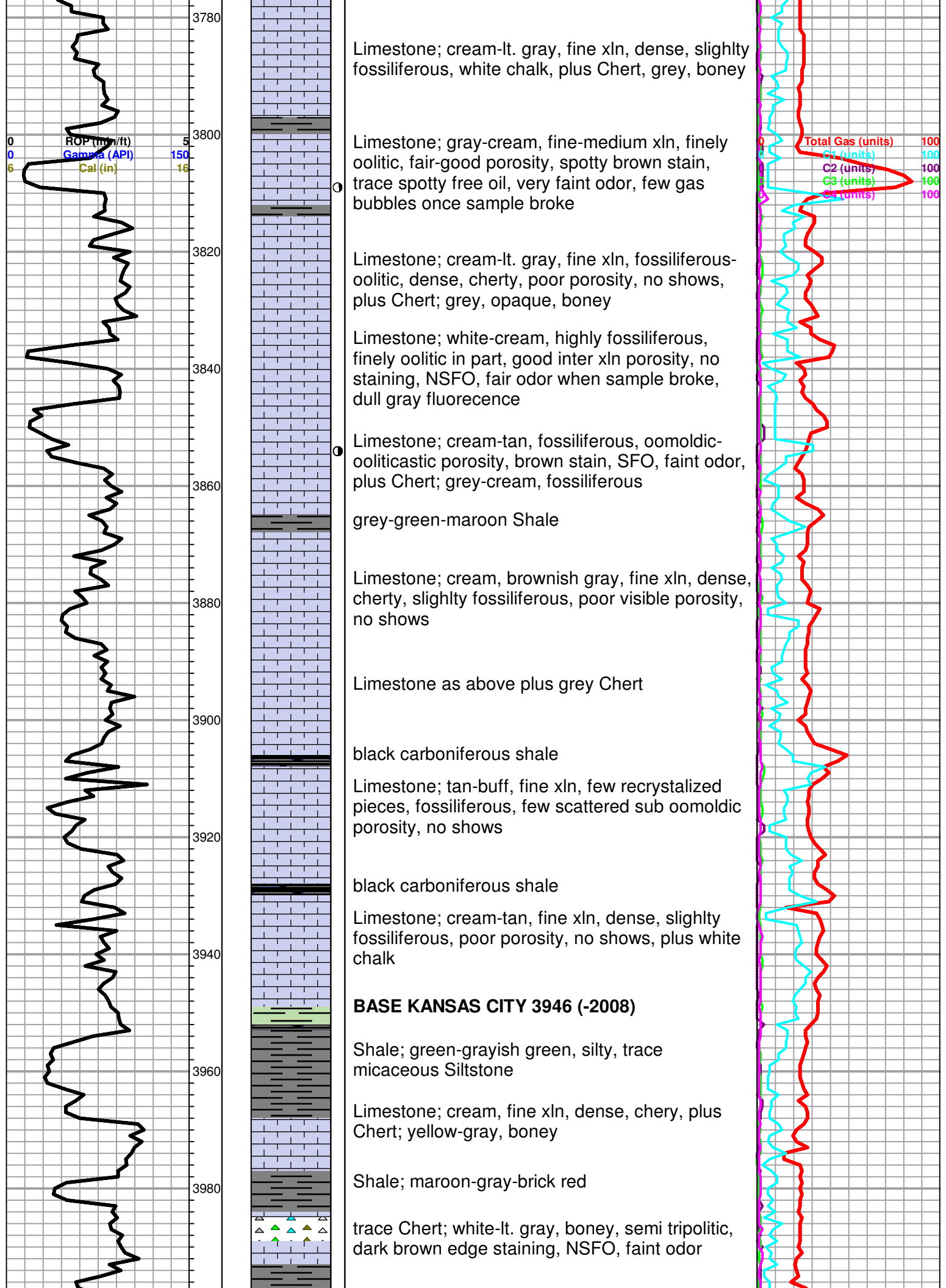


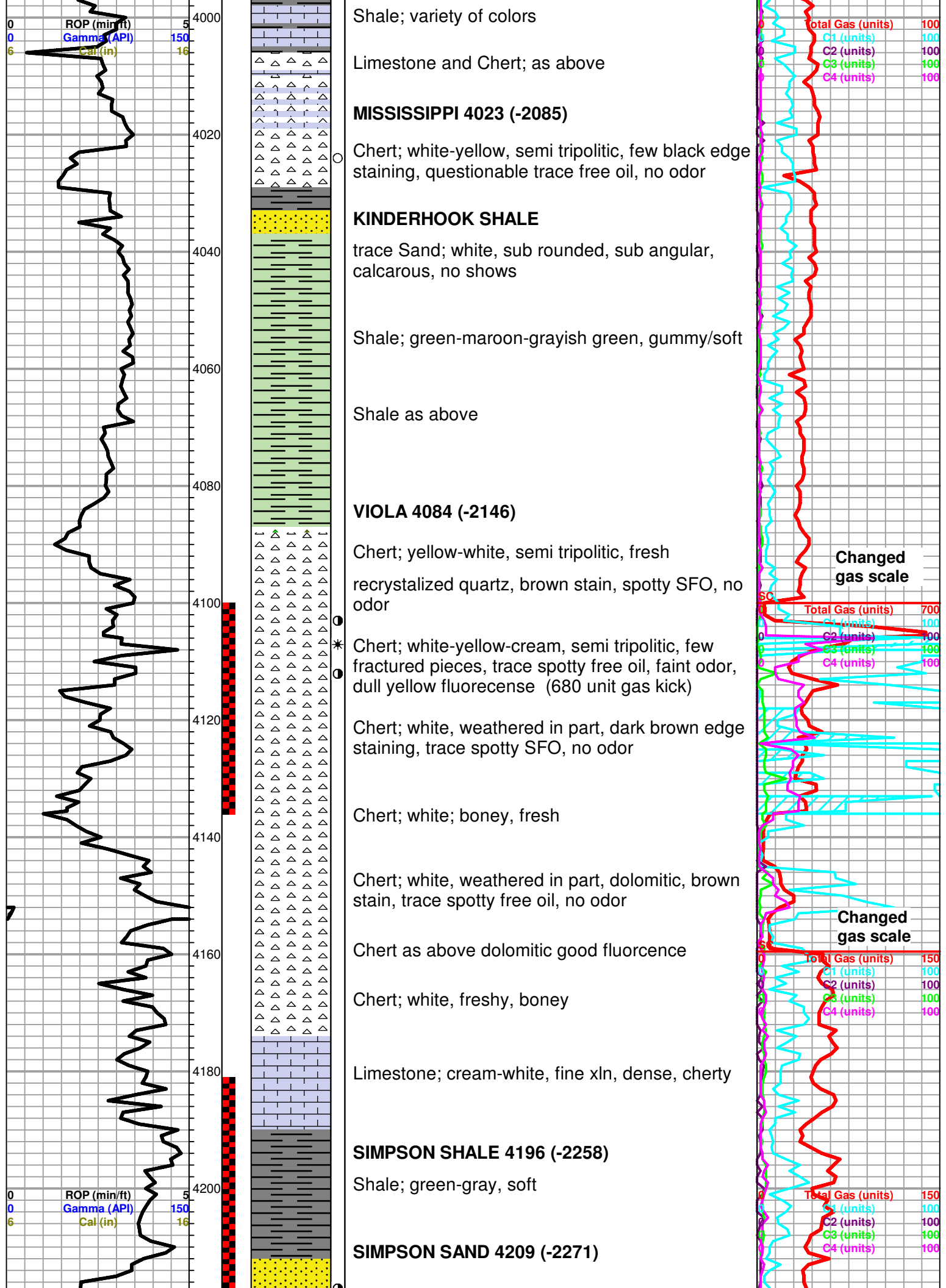
### Samples 3300'-RTD

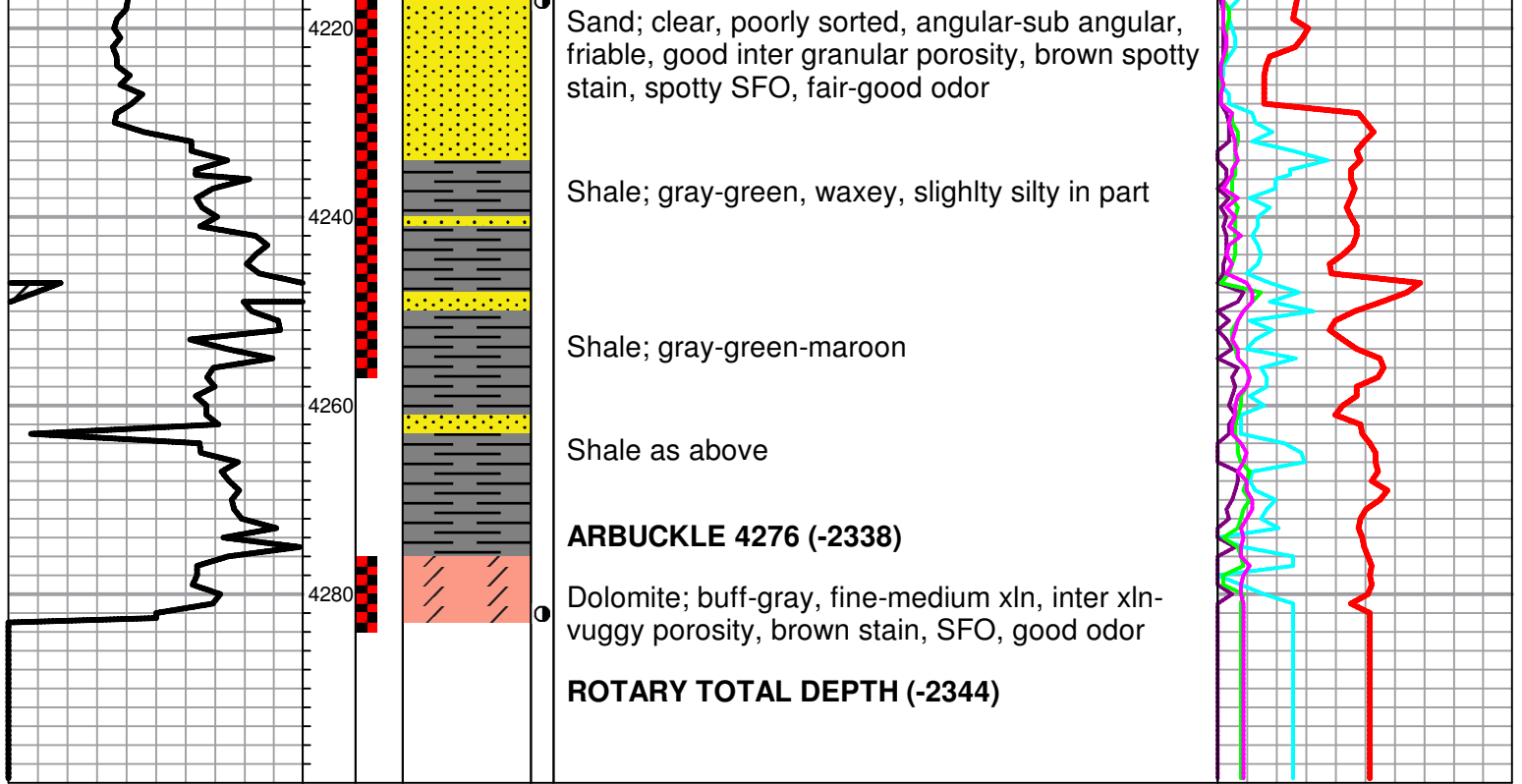
Limestone; cream-buff, fine xln, dense, slightly chert, poor visible porosity, no shows













# DUAL INDUCTION LOG

**Company** THOMAS GARNER, INC.  
**Well** DENNIS NO. 1  
**Field** LEISS NORTHWEST  
**County** STAFFORD **State** KANSAS

**Company** THOMAS GARNER, INC.  
**Well** DENNIS NO. 1  
**Field** LEISS NORTHWEST  
**County** STAFFORD  
**State** KANSAS

**Location:** API #: 15-185-24005-00-00  
 416' FSL & 1733' FEL  
 SEC 15 TWP 25S RGE 13W  
 Permanent Datum GROUND LEVEL Elevation 1927'  
 Log Measured From KELLY BUSHING  
 Drilling Measured From KELLY BUSHING  
 Other Services: CNL/CDL MEL/BHCS  
 Elevation: K.B. 1940', D.F. N/A, G.L. 1927'

Date	12/1/2017
Run Number	ONE
Depth Driller	4282'
Depth Logger	4274'
Bottom Logged Interval	4273'
Top Log Interval	300'
Casing Driller	8.625" @ 321'
Casing Logger	318'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	8800
Density / Viscosity	9.1 73
pH / Fluid Loss	10.0 10.4
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.35 @ 66
Rmt @ Meas. Temp	.26 @ 66
Rmc @ Meas. Temp	.47 @ 66
Source of Rmf / Rmc	CHARTS
Rm @ BHT	.19 @ 119
Operating Rig Time	4 HOURS
Max Rec. Temp. F	119 DEGF
Equipment Number	108
Location	HAYS
Recorded By	J. HENRICKSON
Witnessed By	TOM GARNER
	BRYCE GARNER

<<< Fold Here >>>

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

**Comments**

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.  
 ST. JOHN KANSAS  
 SOUTH TO HWY 50, 6 SOUTH, 1/2 EAST, NORTH INTO

Log Measured From: KELLY BUSHING 13 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES  
[www.pioneerenergy.com](http://www.pioneerenergy.com) 785-625-3858

<b>Your Pioneer Energy Services Crew</b> Engineer: J. HENRICKSON Operator: Operator: Operator:	<b>This Log Record Was Witnessed By</b> Primary Witness: TOM GARNER Secondary Witness: BRYCE GARNER Secondary Witness: Secondary Witness:
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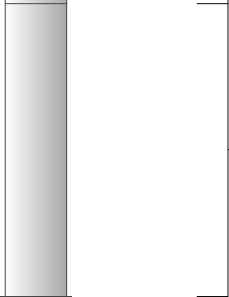
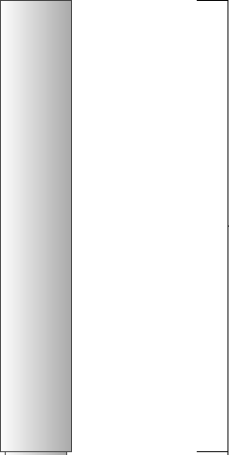

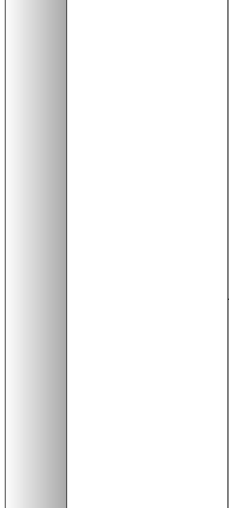


# Log Variables

DatabaseC:\ProgramData\Warrior\Data\garner\_dennis\_1.db  
 Dataset field/well/stack/pass3.1/\_vars\_

## Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	100	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	-210	0	Off	0

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	33.00		GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC CNSSC	29.90 29.15		CNT-M&W (tk10-MW)	5.50	3.50	100.00
LSD DCAL SSD	20.85 20.83 20.35		CDL-M&W (168-986)	8.50	4.00	250.00
RLL3 RLL3F	15.80 15.79					
CILD	8.00		DIL-M&W (1987)	18.50	3.50	220.00

CILM 4.70

SP 0.20

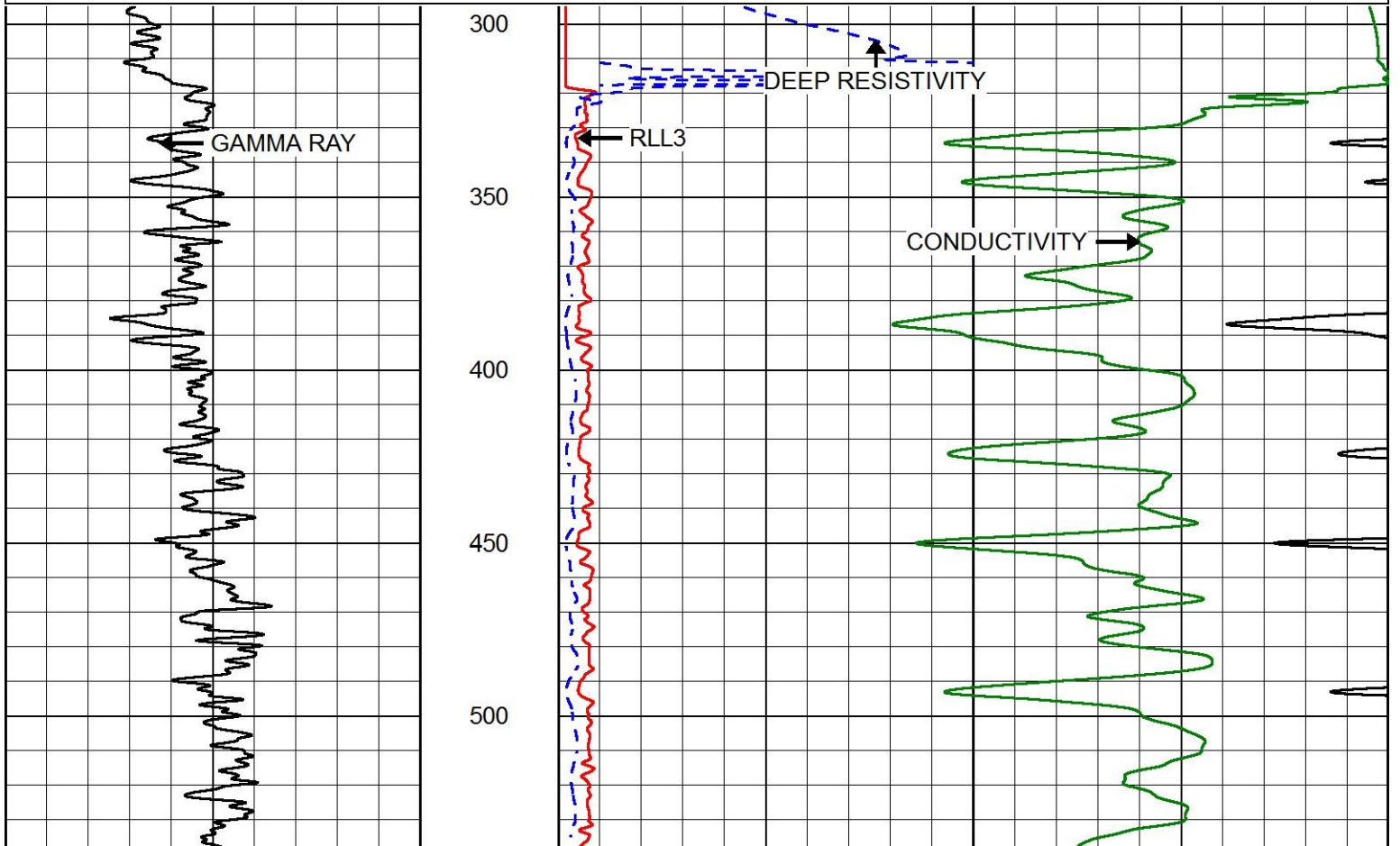
Dataset: garner\_dennis\_1.db: field/well/stack/pass3.1  
 Total length: 35.50 ft  
 Total weight: 620.00 lb  
 O.D.: 4.00 in

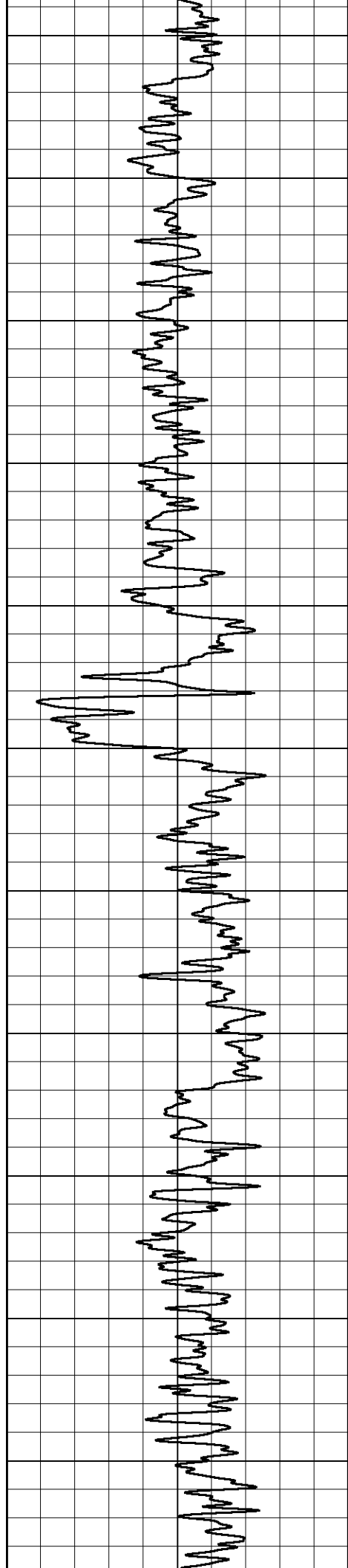


# MAIN PASS

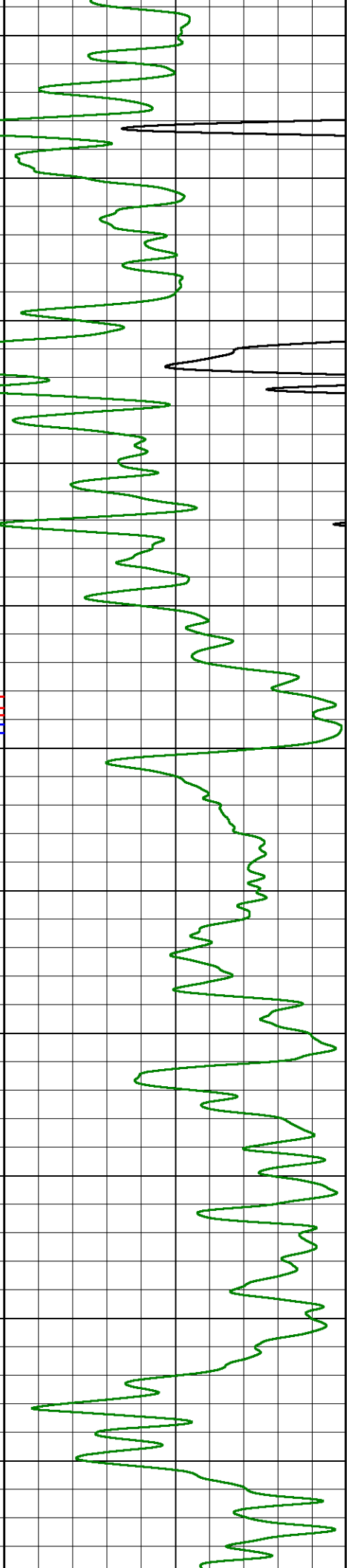
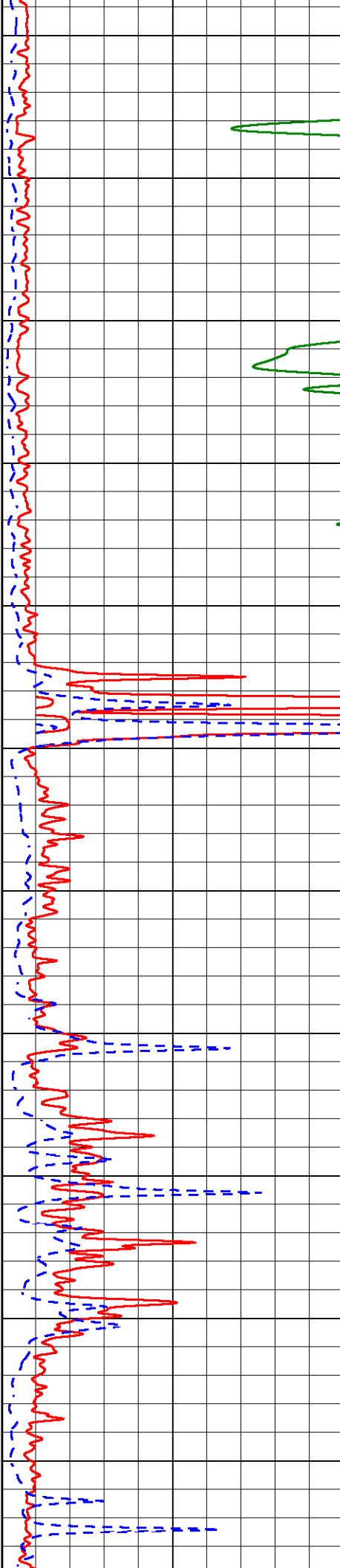
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 Charted by Depth in Feet scaled 1:600

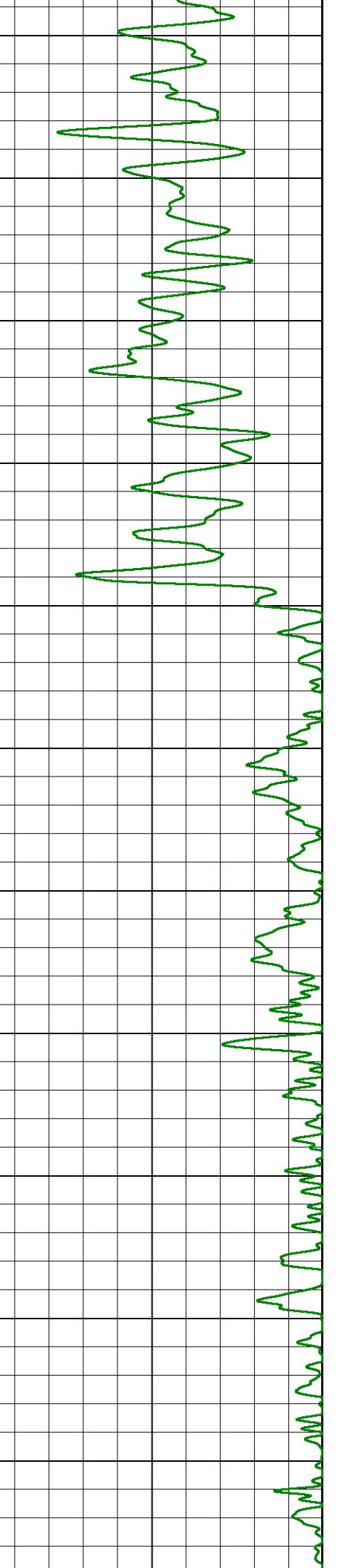
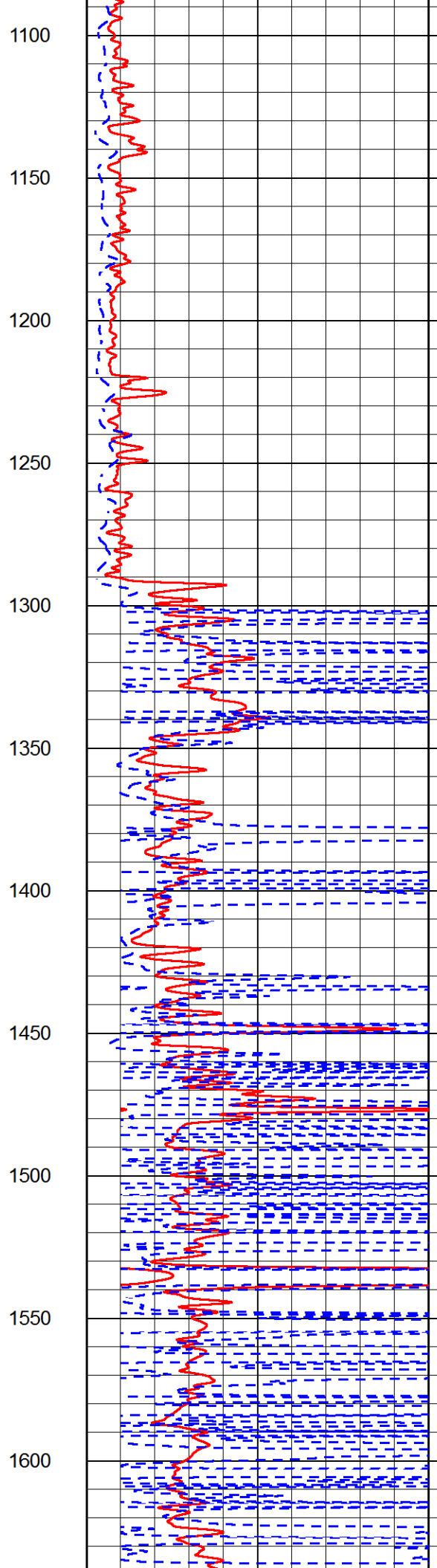
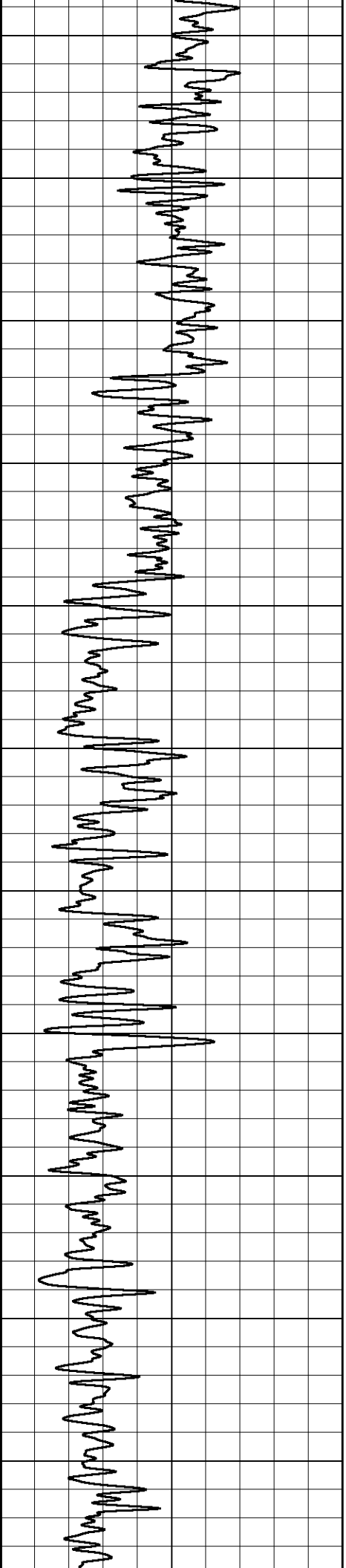
0	GAMMA RAY (GAPI)	150	2000	CONDUCTIVITY (mmho/m)	0
			0	RLL3 (Ohm-m)	50
			0	DEEP RESISTIVITY (Ohm-m)	50
			50	RLL3 (Ohm-m)	500
				DEEP RESISTIVITY	
			50	(Ohm-m)	500

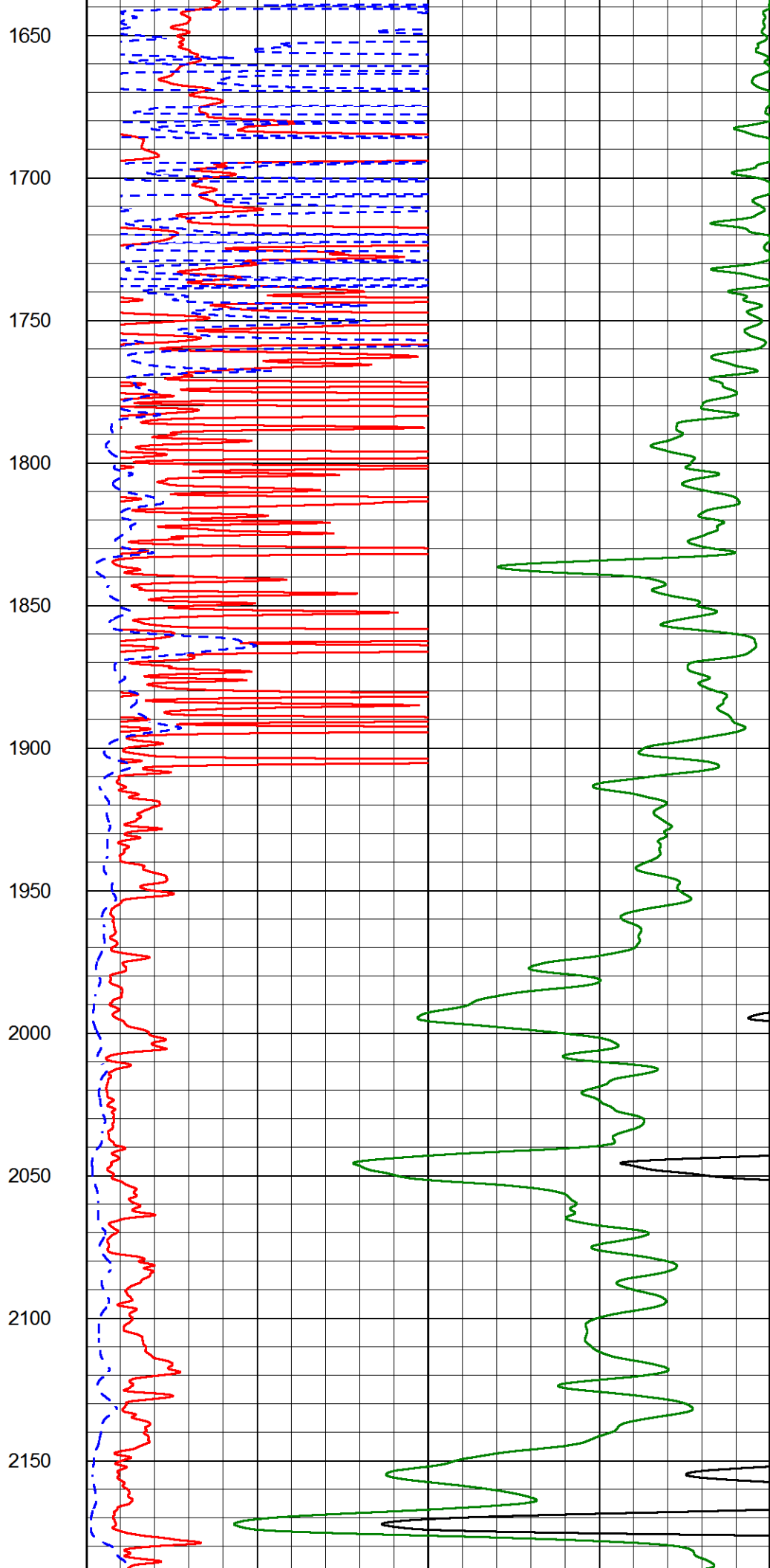
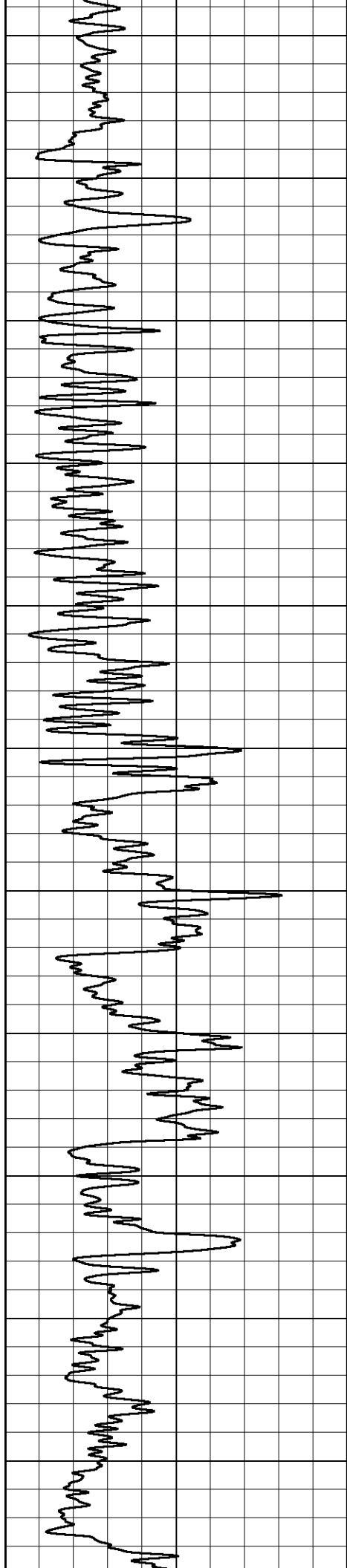


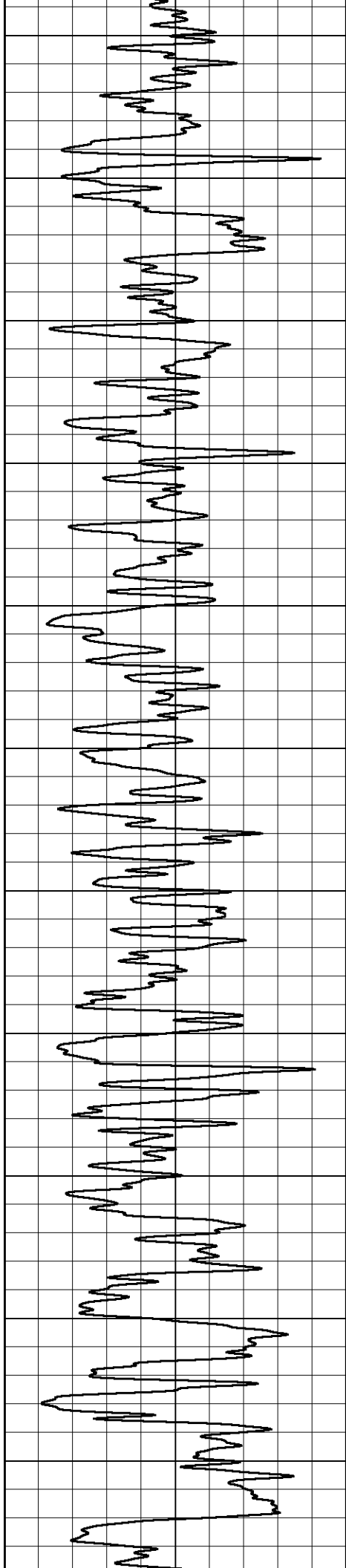


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700  
750  
800  
850  
900  
950  
1000  
1050

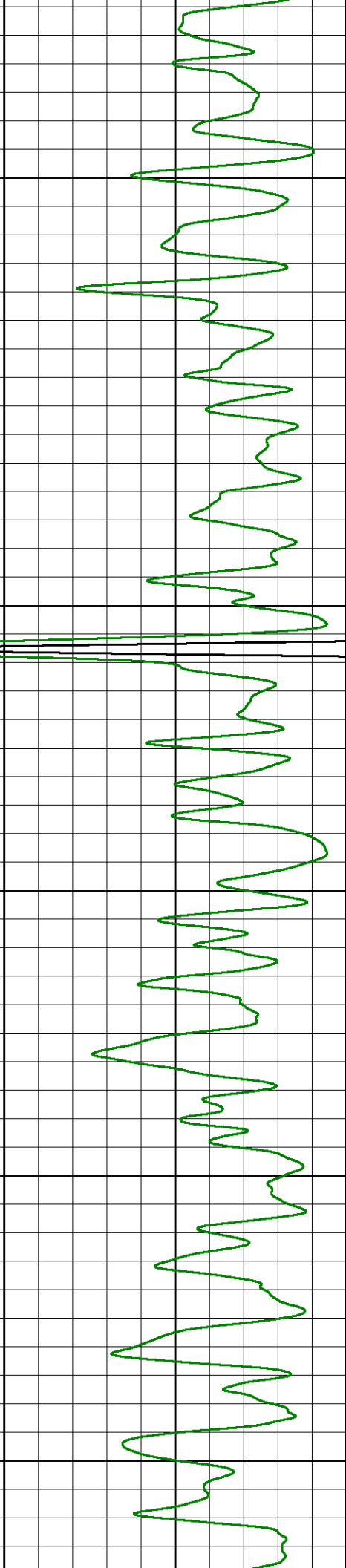
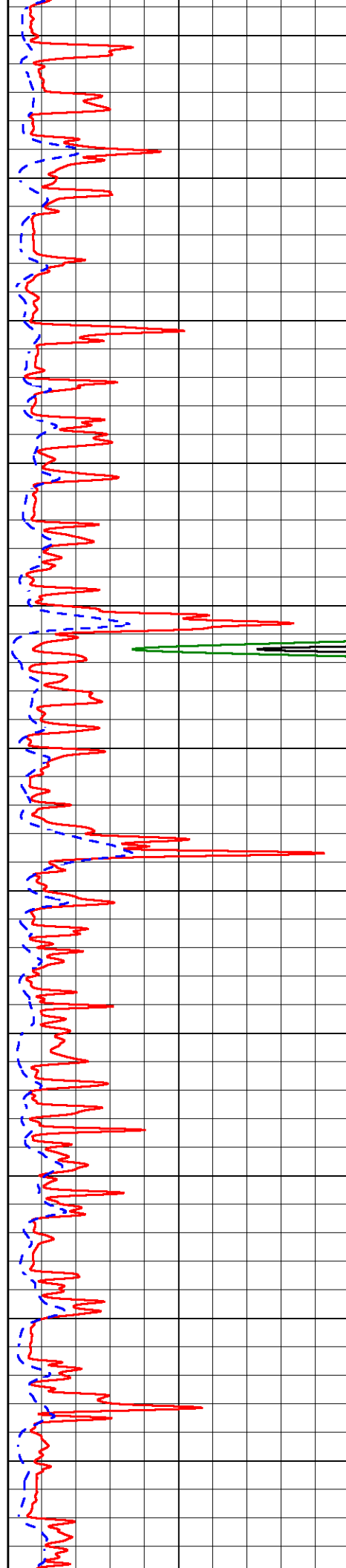


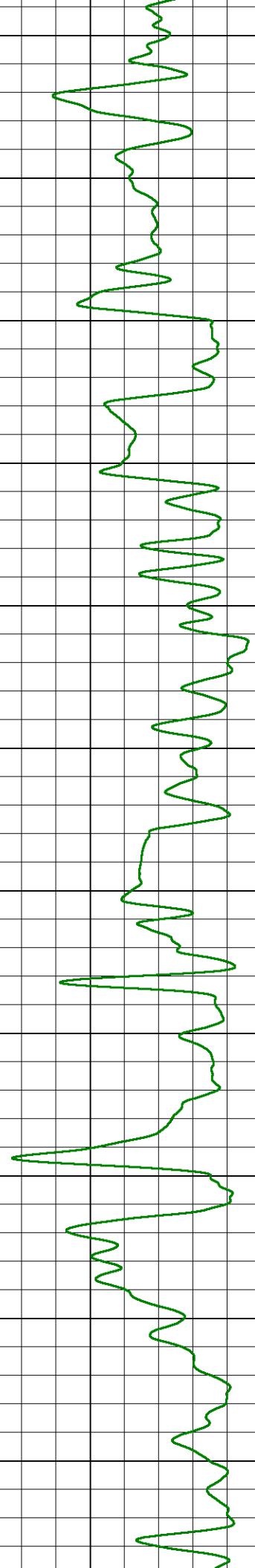
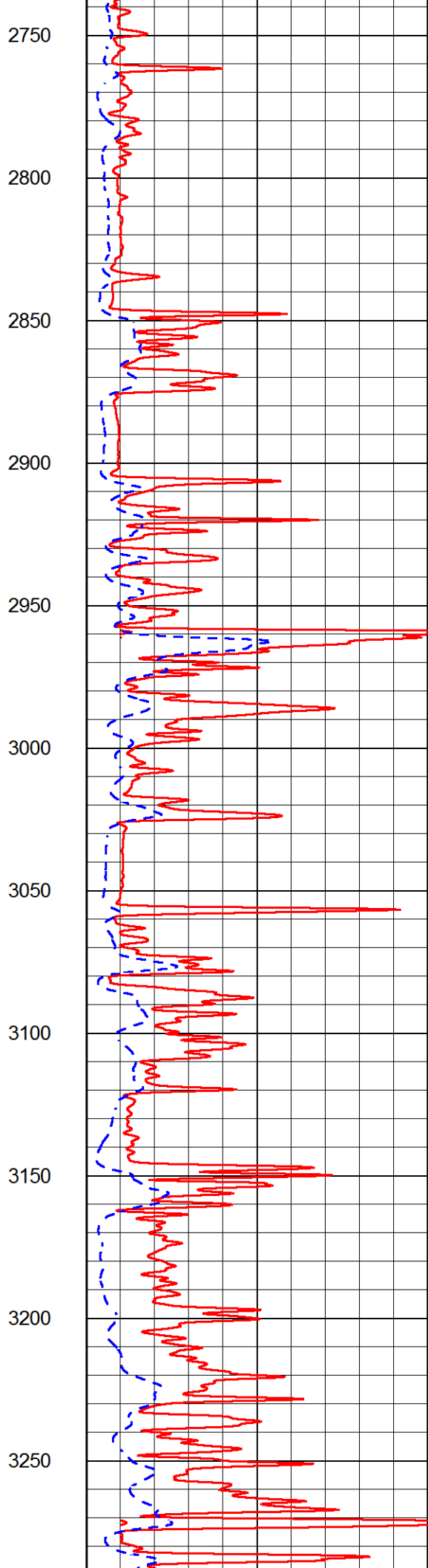
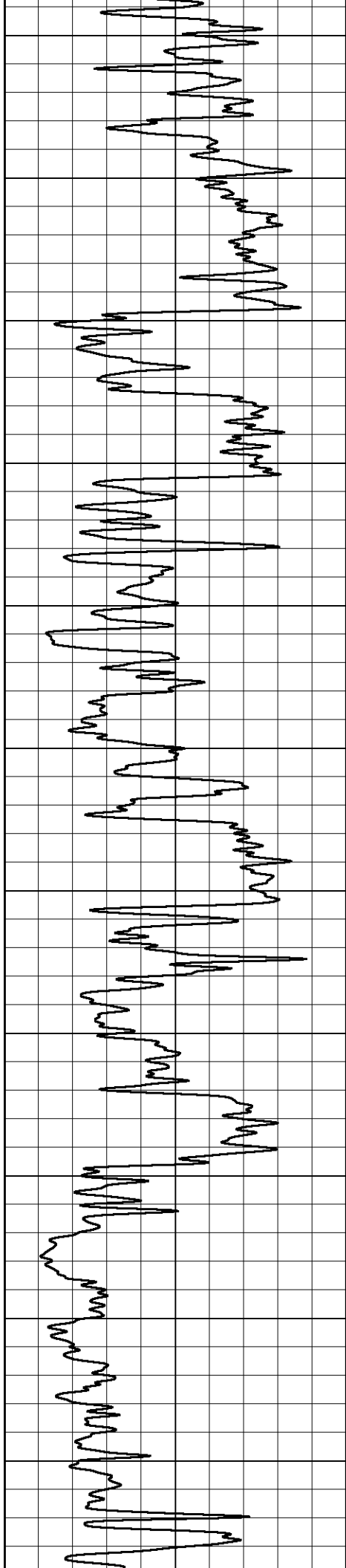


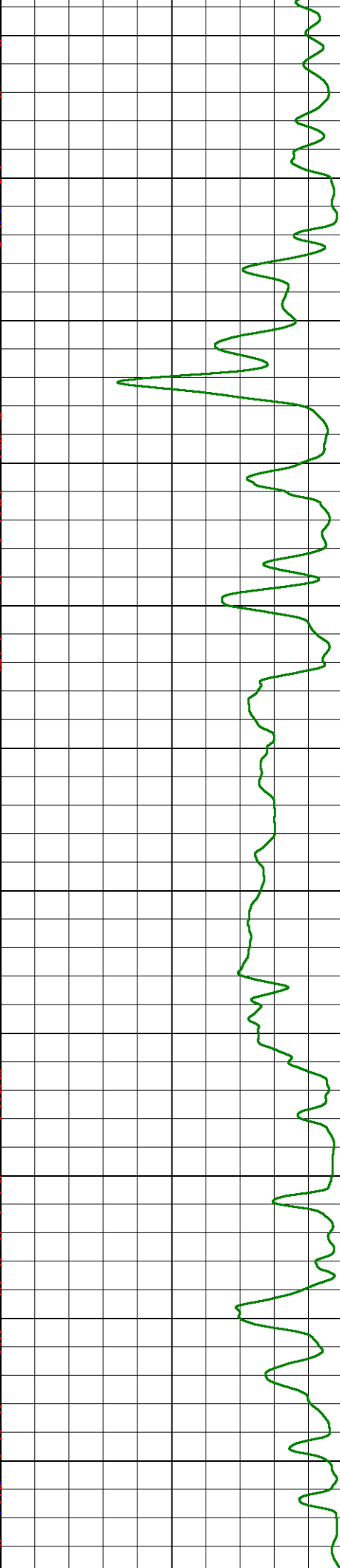
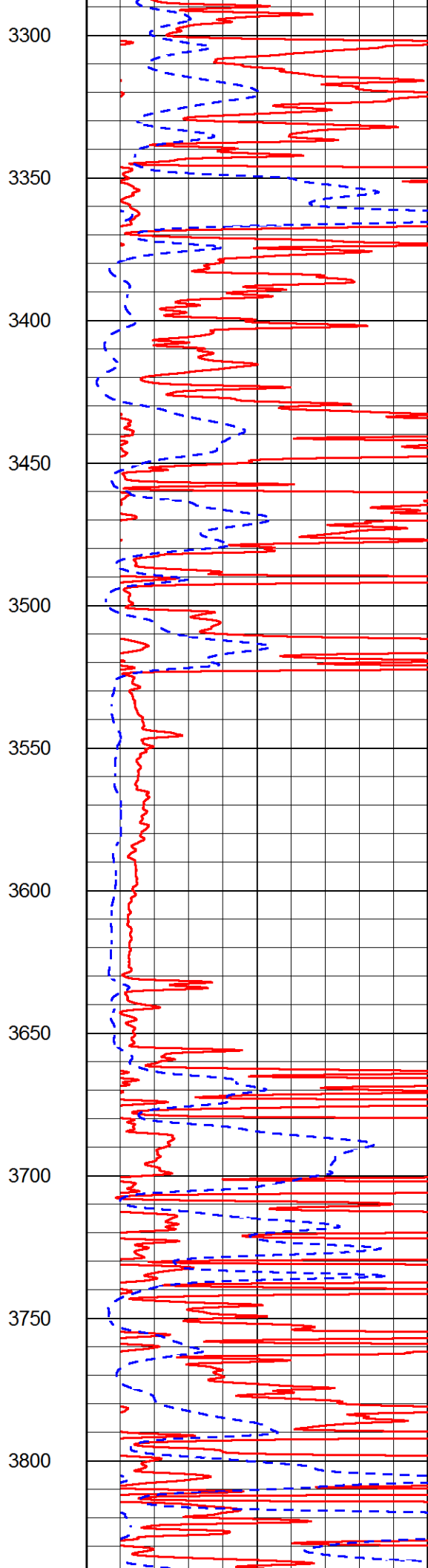
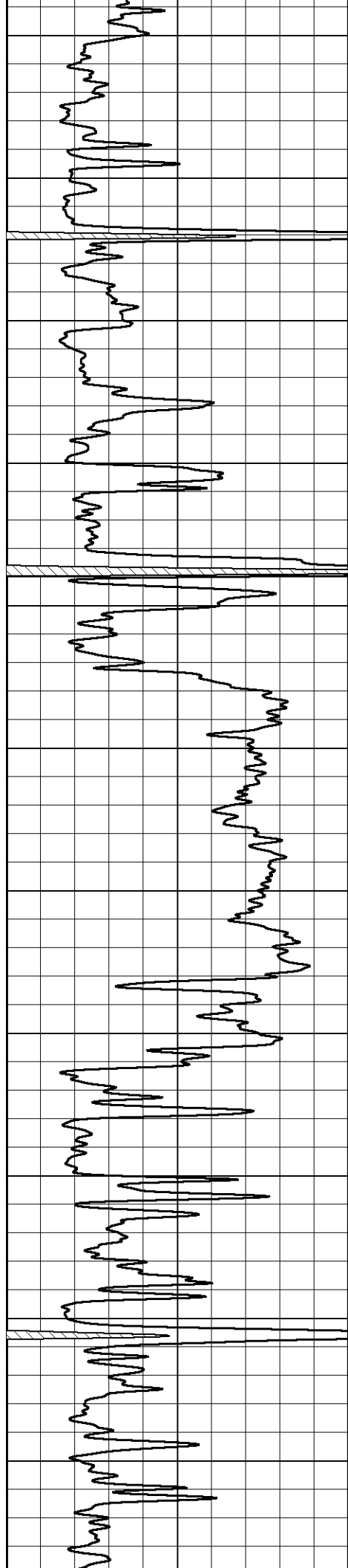




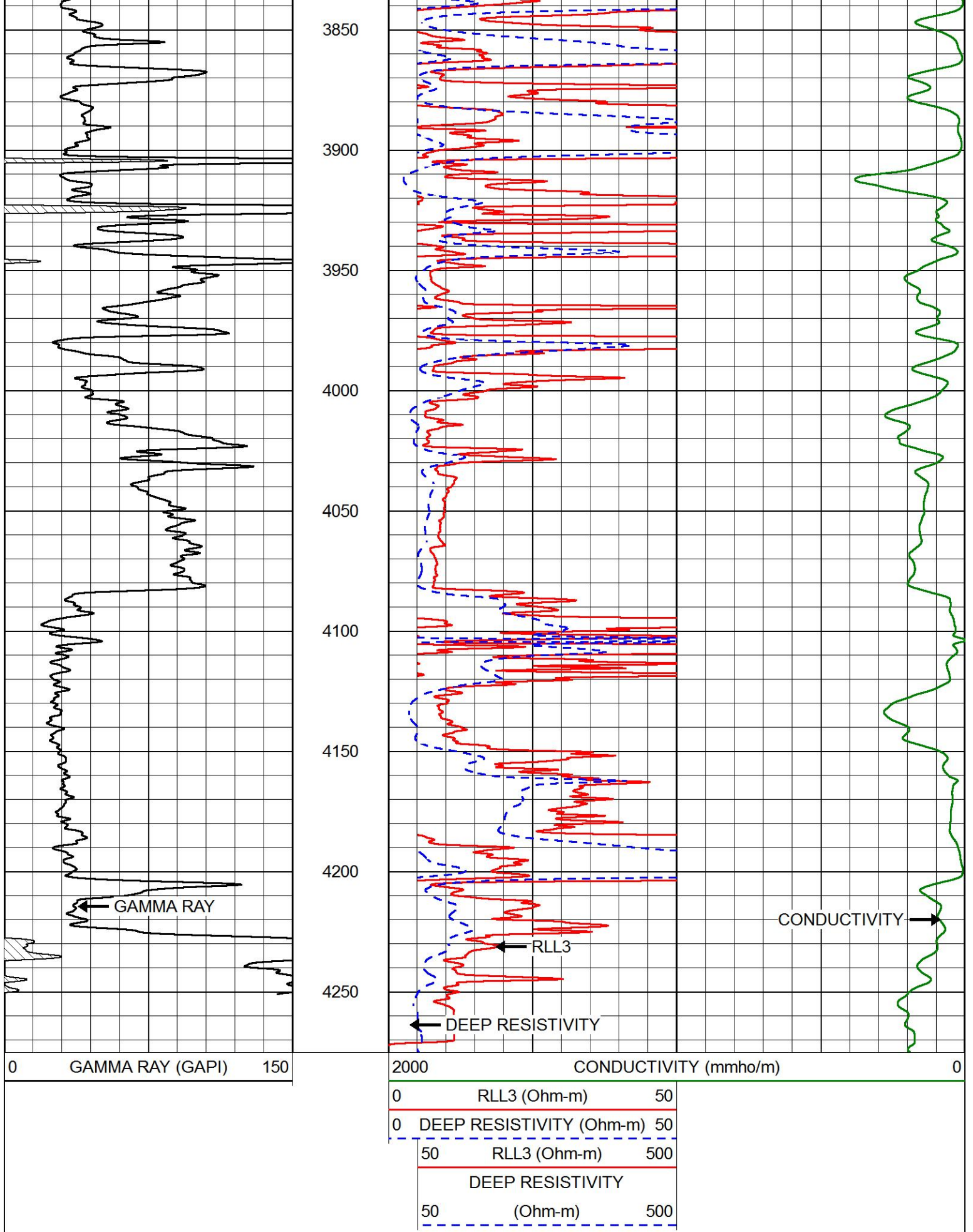
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2600  
2650  
2700









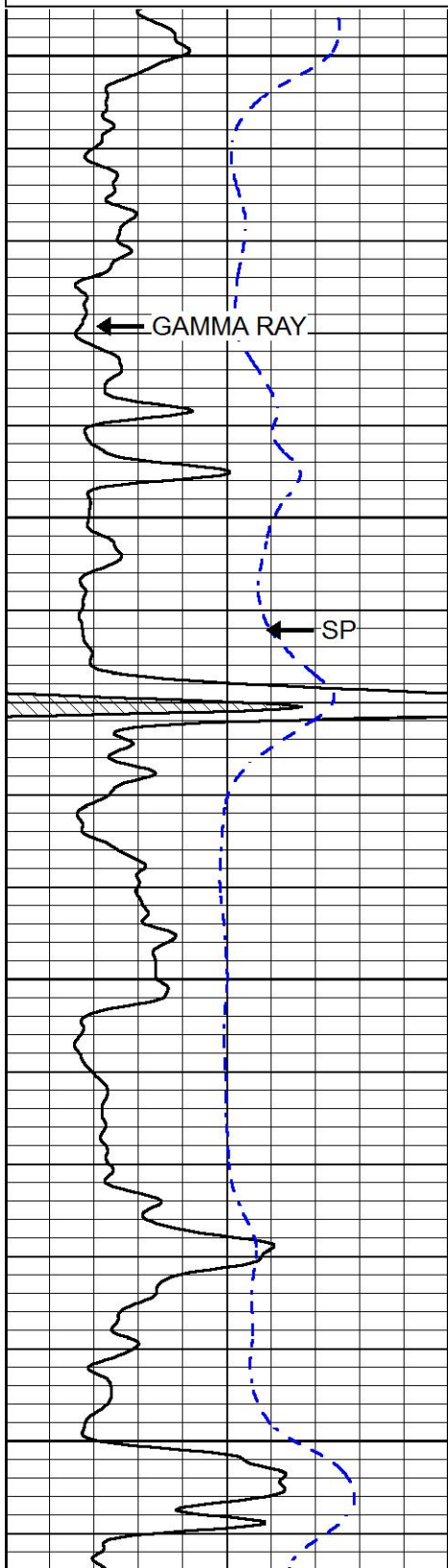


# MAIN PASS

Database File garner\_dennis\_1.db  
Dataset Pathname stack/pass3.1  
Presentation Format dil  
Dataset Creation Fri Dec 01 12:10:24 2017  
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-200	SP (mV)	0

0.2	DEEP RESISTIVITY (Ohm-m)	2000
0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
15000	LINE TENSION (lb)	0

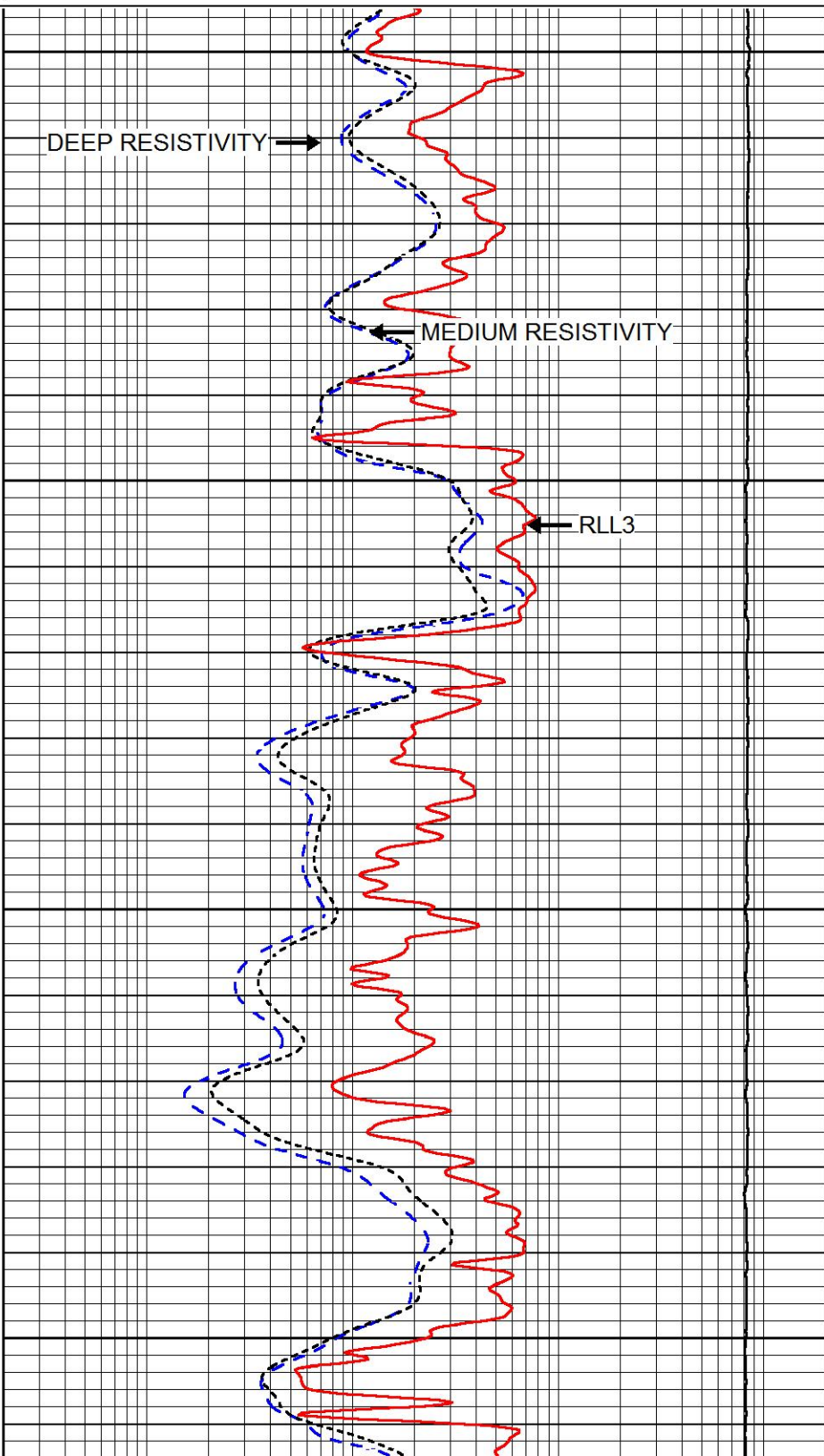


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3350

3400

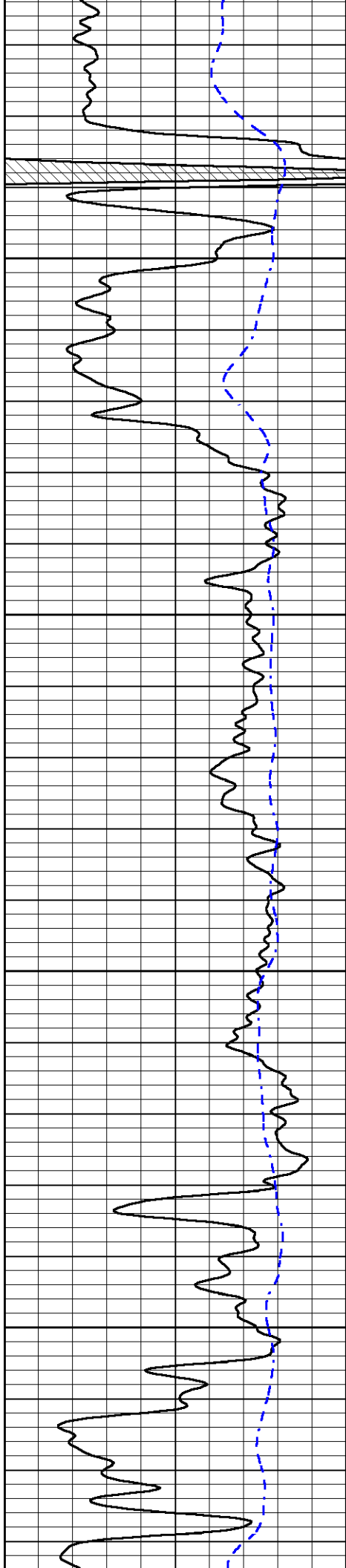
3450



DEEP RESISTIVITY

MEDIUM RESISTIVITY

RLL3

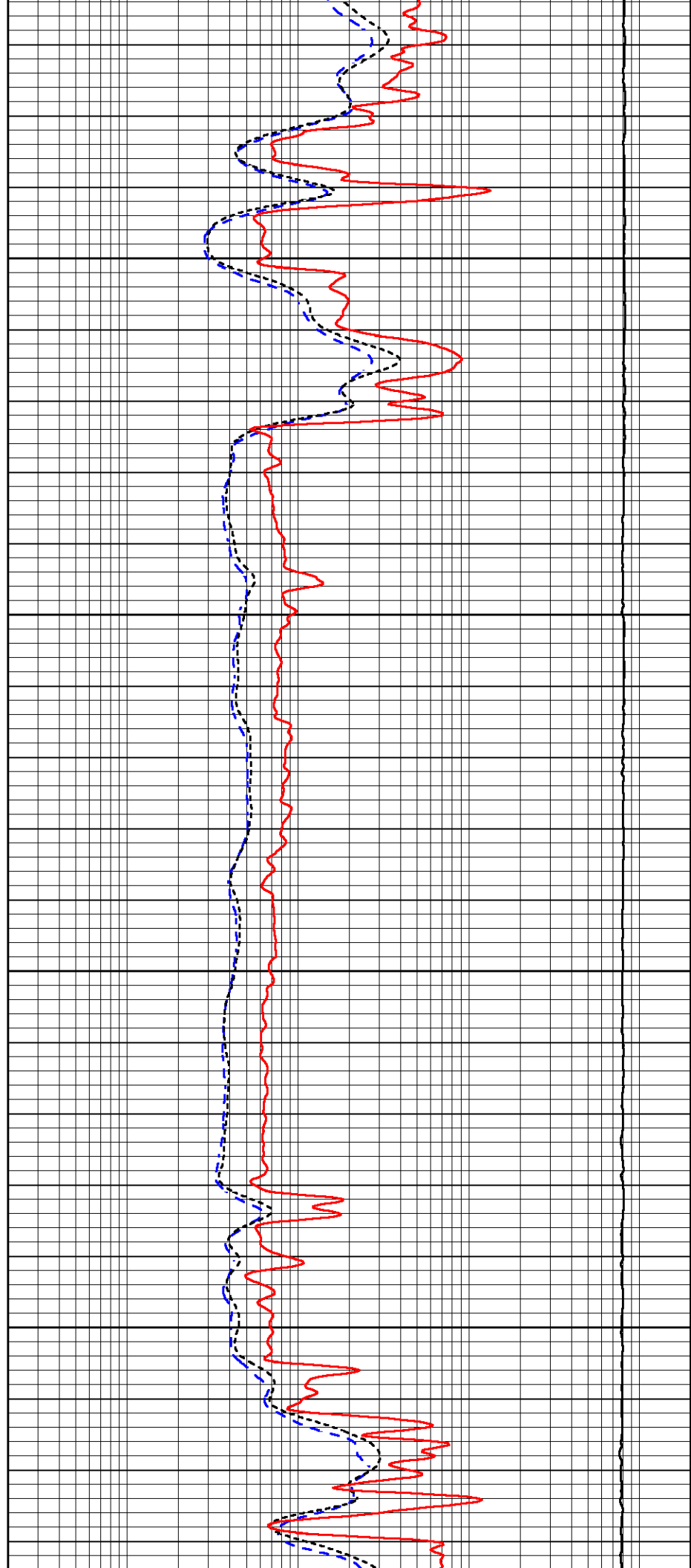


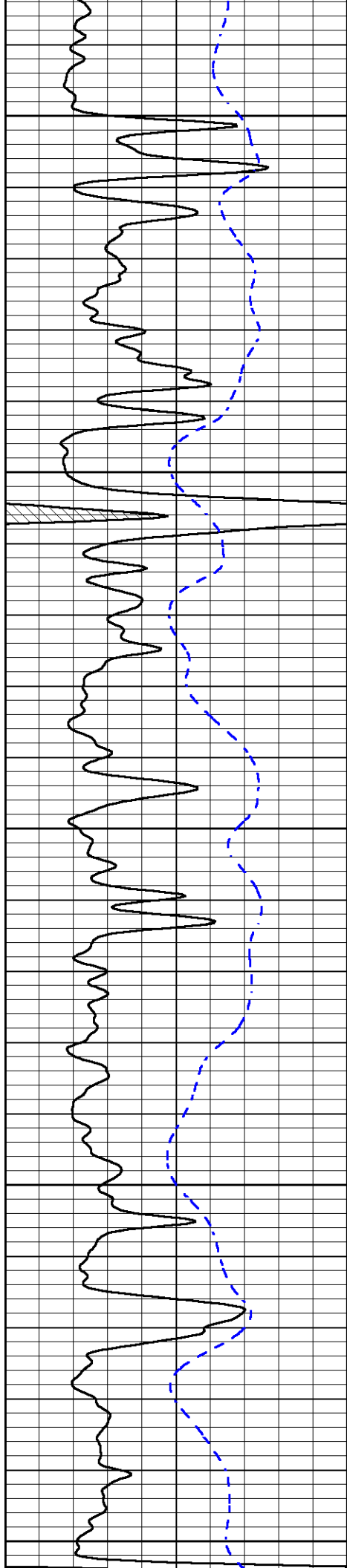
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3550

3600

3650





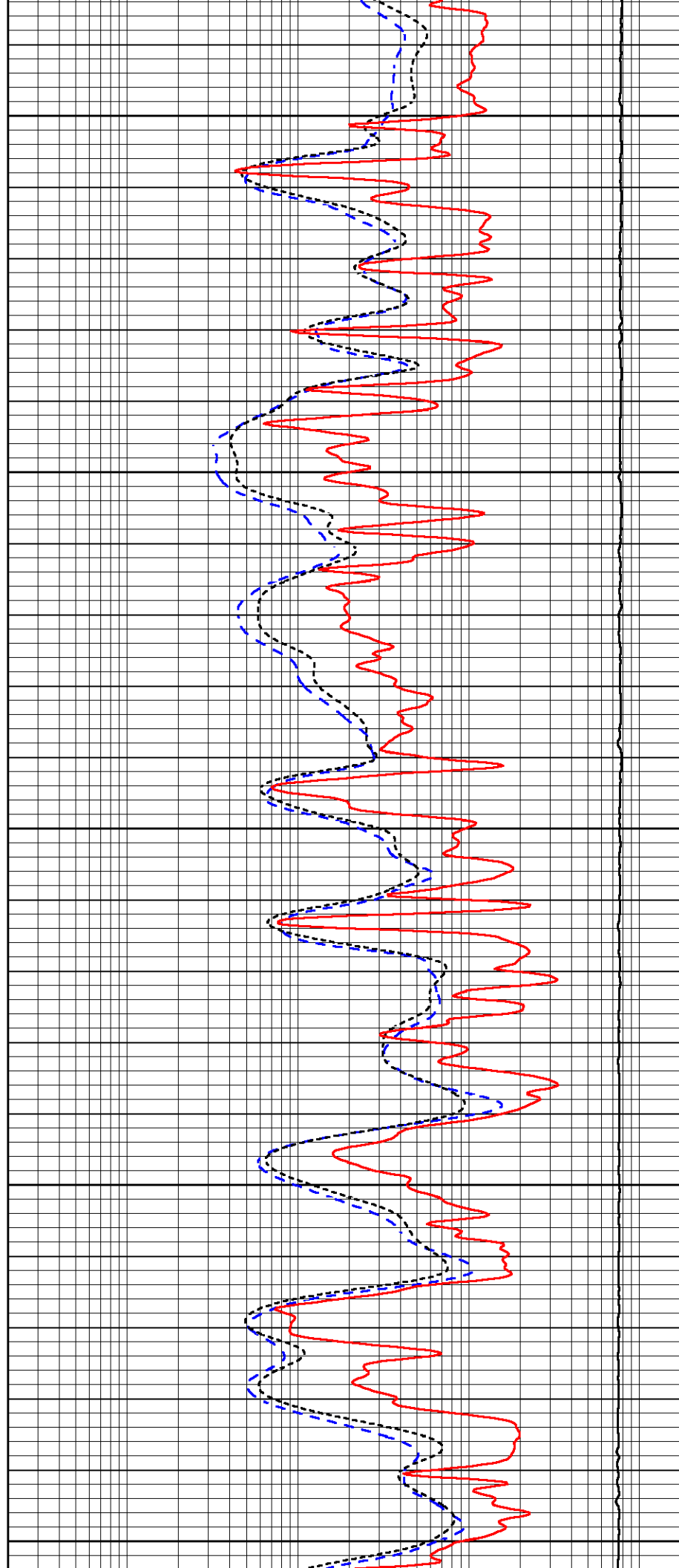
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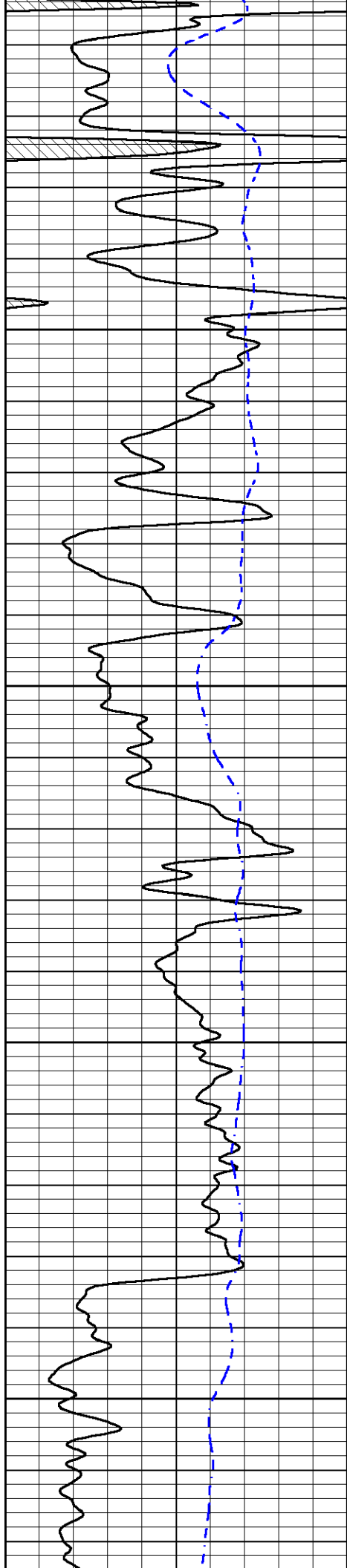
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3800

3850

3900



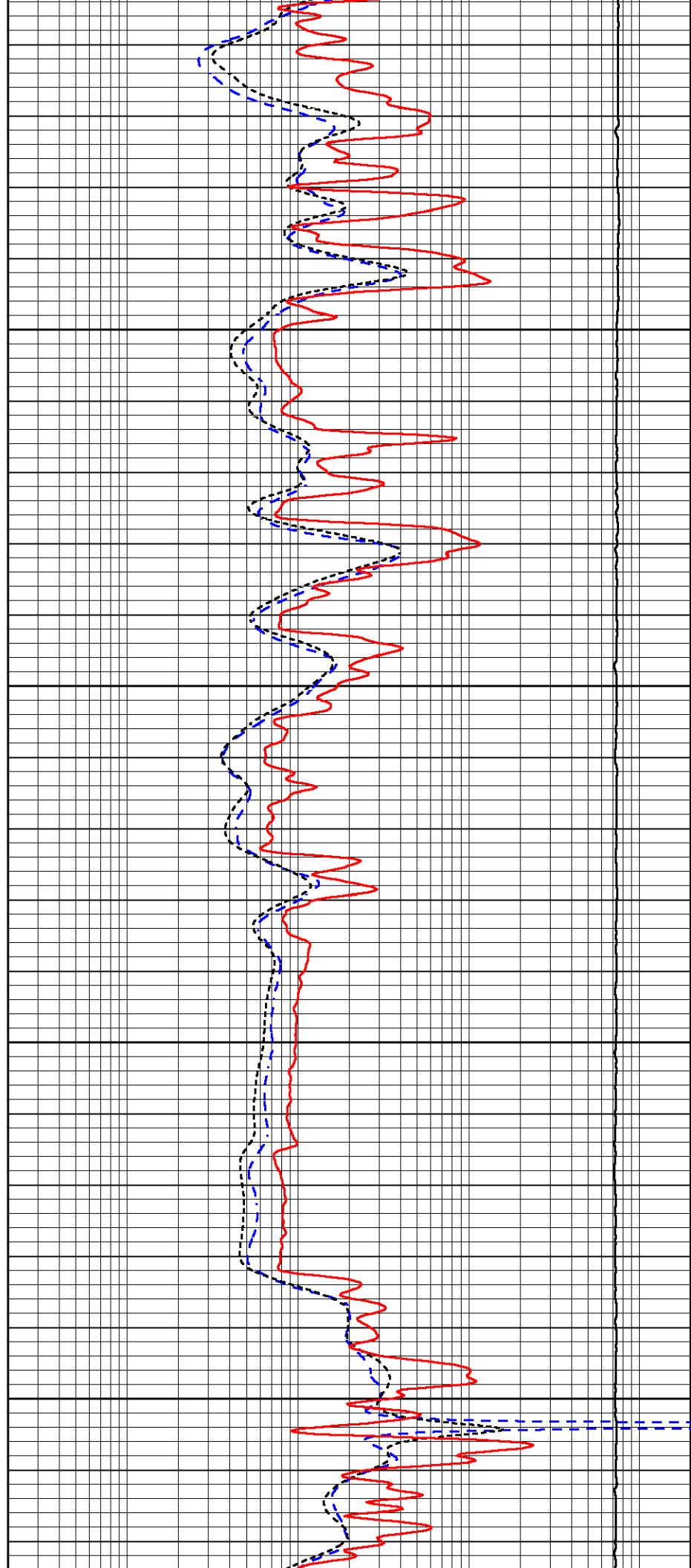


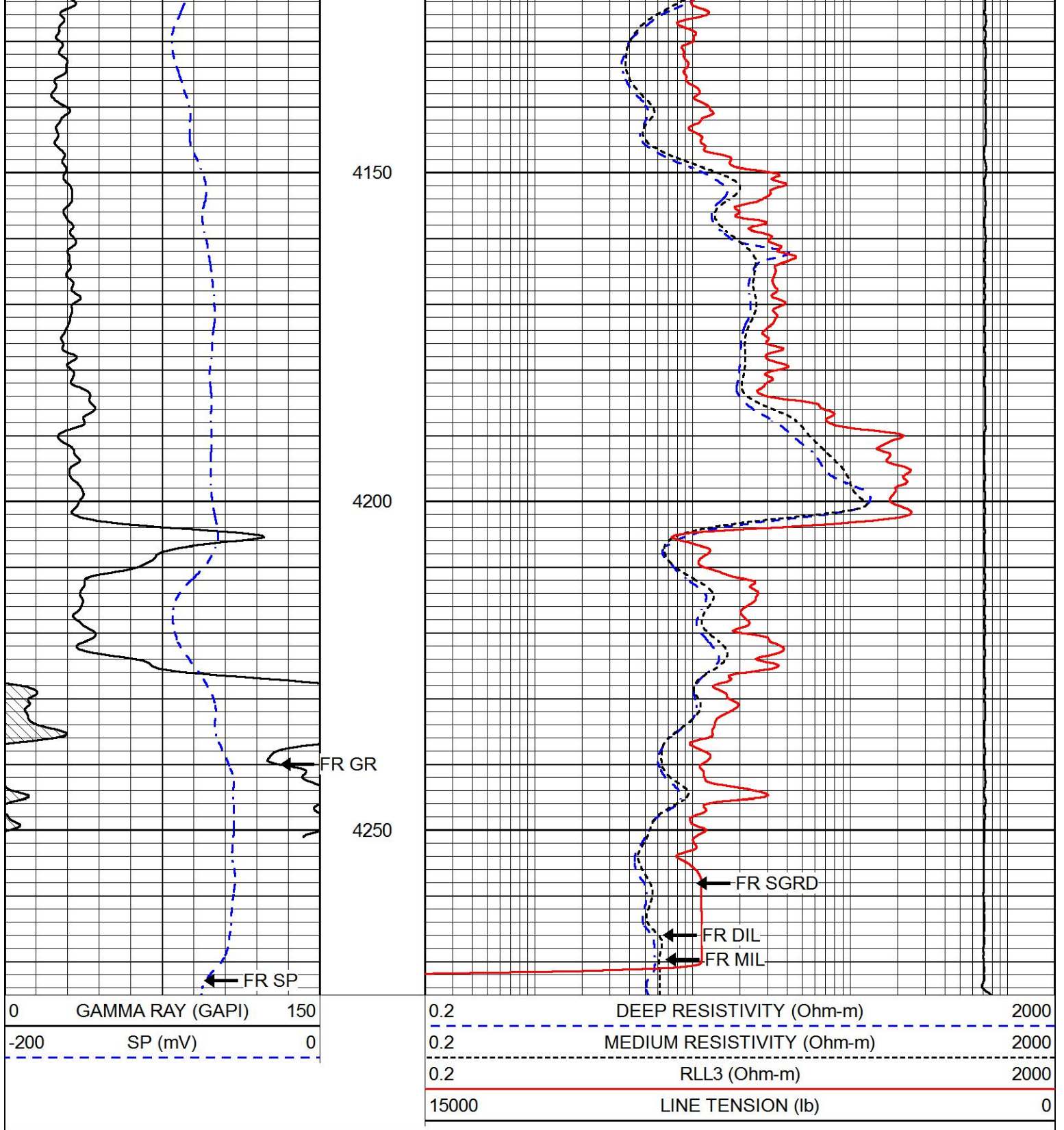
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4000

4050

4100



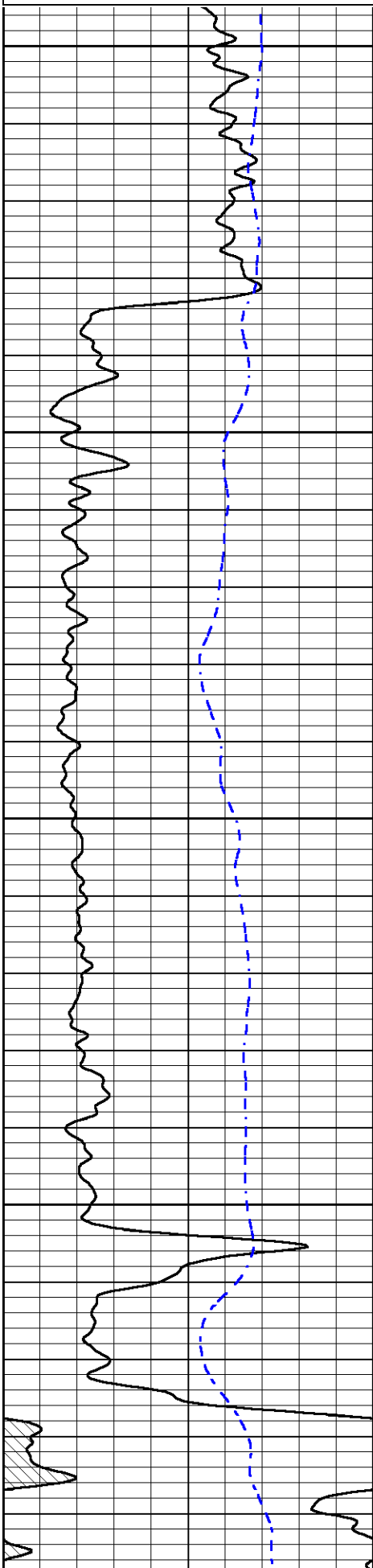


# REPEAT SECTION

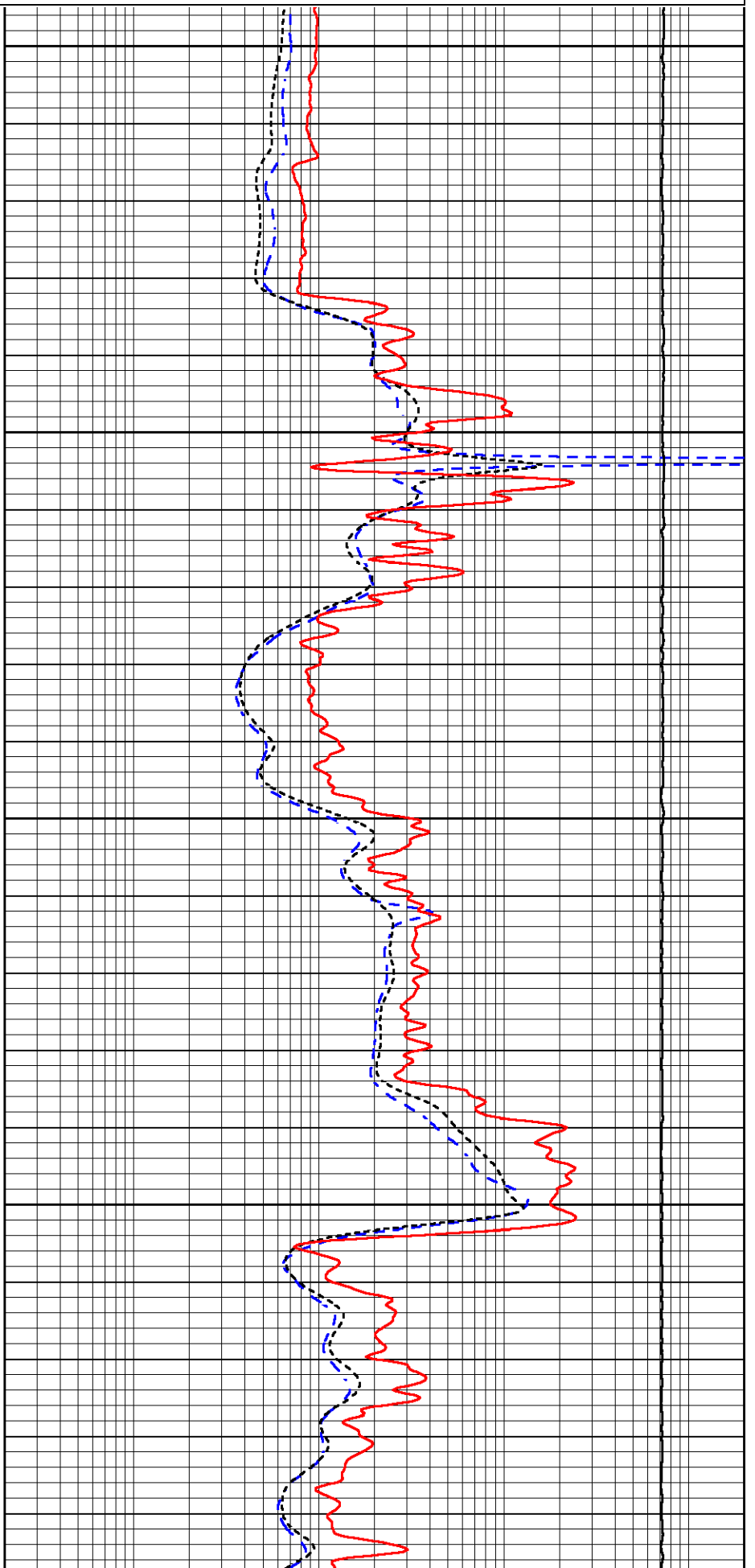
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 Dataset Pathname: stack/pass2.1  
 Presentation Format: dil  
 Dataset Creation: Fri Dec 01 12:10:36 2017  
 Charted by: Depth in Feet scaled 1:240

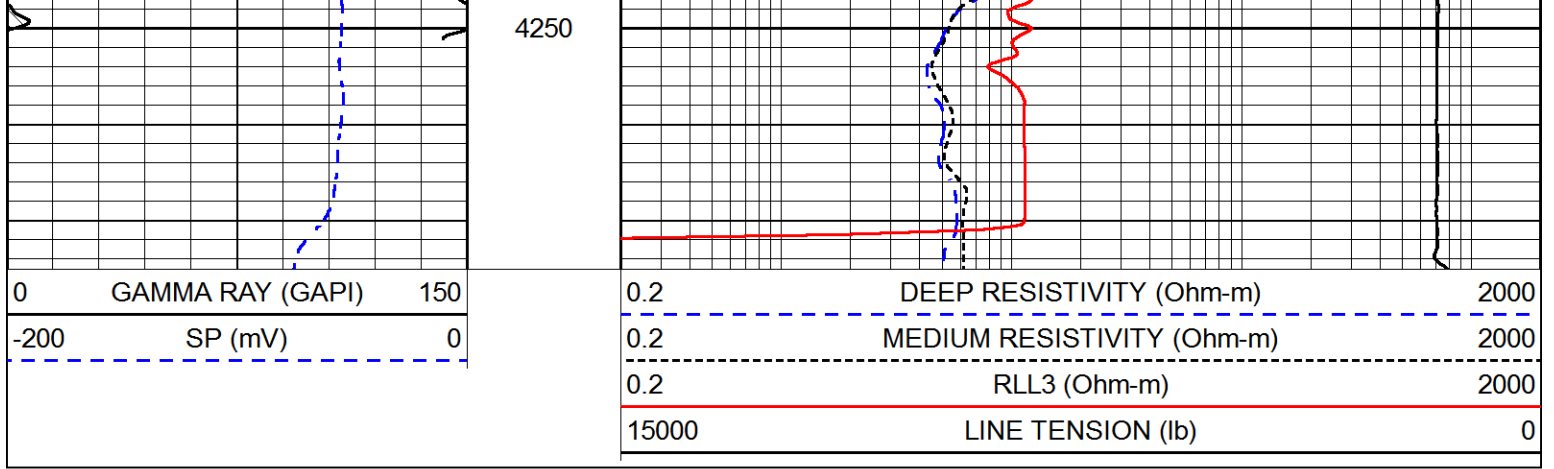


SP (mV) -200 0



MEDIUM RESISTIVITY (Ohm-m) 0.2 2000  
RLL3 (Ohm-m) 0.2 2000  
LINE TENSION (lb) 15000 0





### Calibration Report

Database File     garner\_dennis\_1.db  
 Dataset Pathname  stack/pass3.1  
 Dataset Creation   Fri Dec 01 12:10:24 2017

### Dual Induction Calibration Report

Serial-Model:                   1987-M&W  
 Calibration Performed:        Tue Apr 11 17:07:38 2017

Loop:	Readings		References		Results	
	Air	Loop	Air	Loop	Gain	Offset
Deep	178.615	710.235	0.000	255.800 mmho/m	0.560	-36.500
Medium	161.982	1441.110	0.000	255.800 mmho/m	0.440	-110.500

### Compensated Density Calibration Report

Serial-Model:                   168-986-M&W  
 Source / Verifier:             /  
 Master Calibration Performed:  Tue Apr 11 17:07:47 2017

#### Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4691.86	4818.19	cps
Aluminum	2.700	g/cc	859.57	3020.22	cps
Spine Angle = 74.61			Density/Spine Ratio = 0.537		
	Size		Reading		
Small Ring	4.00	in	1.03		
Large Ring	14.00	in	1.23		

### Compensated Neutron Calibration Report

Serial Number:           tk10-MW  
 Tool Model:             M&W  
 Calibration Performed:  Wed Nov 16 11:21:36 2016


Detector	Readings	Target	Normalization
----------	----------	--------	---------------



Short Space	6240.00	cps	1000.00	cps	1.6025
Long Space	460.00	cps	1000.00	cps	1.9500

Gamma Ray Calibration Report

Serial Number:	89-M&W	
Tool Model:	M&W	
Calibration Performed:	Tue Apr 11 17:08:01 2017	
Calibrator Value:	1000.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	6.2	cps
Sensitivity:	0.5200	GAPI/cps

 <p><b>PIONEER</b> Pioneer Energy Services</p>	Company	THOMAS GARNER, INC.
	Well	DENNIS NO. 1
	Field	LEISS NORTHWEST
	County	STAFFORD
	State	KANSAS



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1001584	1718	11/30/2017
INVOICE NUMBER			
92579576			

Pratt (620) 672-1201  
 B GARNER THOMAS E.  
 I 305 E 7TH AVE  
 L SAINT JOHN  
 L KS US 67576  
 T  
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Dennis 1  
 O LOCATION  
 B COUNTY Stafford  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T  
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41072461	20920		Net - 30 days	12/30/2017

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 11/24/2017 to 11/24/2017</i>				
0041072461				
171816139A Cement-New Well Casing/Pi 11/24/2017				
Cement Surface				
60/40 POZ	300.00	EA	7.20	2,160.00 T
Celloflake	76.00	EA	2.22	168.72 T
Calcium Chloride	774.00	EA	0.63	487.62 T
"Wooden Cmt Plug, 8 5/8""	1.00	EA	96.00	96.00
"Unit Mileage Chg (PU, cars one way)"	20.00	MI	2.70	54.00
Heavy Equipment Mileage	40.00	MI	4.50	180.00
Proppant & Bulk Del. Chgs., per ton mil	258.00	EA	1.50	387.00
Blending & Mixing Service Charge	300.00	BAG	0.84	252.00
Plug Container Util. Chg.	1.00	EA	150.00	150.00
Depth Charge; 0-500'	1.00	EA	600.00	600.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	105.00	105.00

*MH-18*

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	4,640.34
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	211.23
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	4,851.57
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



PAGE 1 of 1	CUST NO 1001584	YARD # 1718	INVOICE DATE 12/07/2017
INVOICE NUMBER <b>92585794</b>			

Pratt (620) 672-1201  
 B GARNER THOMAS E.  
 I 305 E 7TH AVE  
 L SAINT JOHN  
 L KS US 67576  
 T  
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Dennis #1  
 O LOCATION  
 B COUNTY Stafford  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T JOB CONTACT  
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41074078	86779		Net - 30 days	01/06/2018

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 12/02/2017 to 12/02/2017</i>				
0041074078				
171816144A Cement-New Well Casing/Pi 12/02/2017 Cement-5 1/2" Production Casing				
AA2 Cement	150.00	EA	9.35	1,402.50 T
60/40 POZ	50.00	EA	6.60	330.00 T
"Cmt. Shoe Packer Type, 5 1/2" (Blue) "	1.00	EA	1,540.00	1,540.00
"Latch Down Plug & Baffle, 5 1/2" (Blu	1.00	EA	220.00	220.00
"Turbolizer, 5 1/2" (Blue)"	7.00	EA	60.50	423.50
"5 1/2" Basket (Blue)"	1.00	EA	159.50	159.50
Mud Flush	1,000.00	EA	0.83	825.00 T
"Unit Mileage Chg (PU, cars one way)"	20.00	MI	2.48	49.50
Heavy Equipment Mileage	40.00	MI	4.13	165.00
Proppant & Bulk Del. Chgs., per ton mil	183.00	EA	1.37	251.62
Depth Charge; 4001'-5000'	1.00	EA	1,386.00	1,386.00
Blending & Mixing Service Charge	200.00	BAG	0.77	154.00
Plug Container Util. Chg.	1.00	EA	137.50	137.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	96.26	96.26

*12-1-18*

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	7,140.38
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	191.81
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	7,332.19
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Thomas Garner

15/25S/13W Stafford, KS

Dennis #1

Job Ticket: 62013

DST#: 1

ATTN:

Test Start: 2017.11.29 @ 07:06:00

## GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:42:20

Time Test Ended: 14:50:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: **4100.00 ft (KB) To 4135.00 ft (KB) (TVD)**

Total Depth: 4135.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1938.00 ft (KB)

1927.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **9124**

Inside

Press@RunDepth: 221.98 psig @ 4101.00 ft (KB)

Start Date: 2017.11.29

End Date:

2017.11.29

Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Start Time: 07:06:00

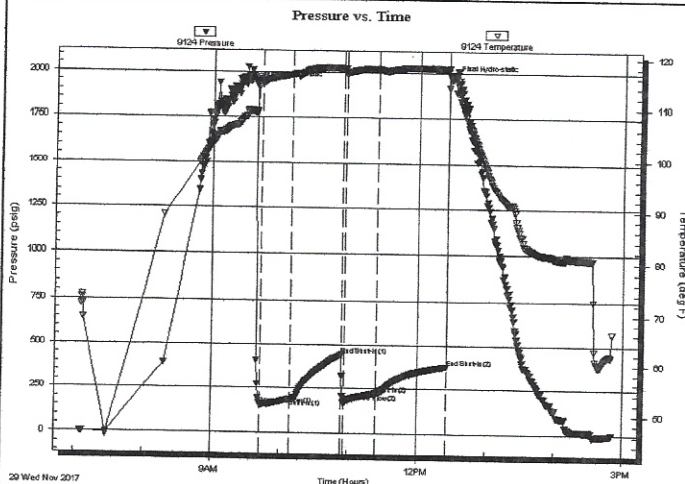
End Time:

14:50:09

Time On Btm: 2017.11.29 @ 09:37:50

Time Off Btm: 2017.11.29 @ 12:30:00

**TEST COMMENT:** IF - Strong blow throughout initial flow period. Gas to surface 6 minutes into initial flow period.  
IS - 3 inch blow back during initial shut-in period.  
FF - Strong blow throughout final flow period.  
FS - 5 inch blow back during final shut-in period.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1928.22	109.18	Initial Hydro-static
5	153.60	114.83	Open To Flow (1)
32	185.83	116.48	Shut-in(1)
76	444.21	117.66	End Shut-in(1)
79	170.57	116.69	Open To Flow (2)
107	221.98	117.66	Shut-in(2)
168	377.62	117.74	End Shut-in(2)
173	1966.98	116.57	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
315.00	Gassy oil cut mud 15%G 17%M & 68%O	2.45
160.00	Gassy clean oil 100%O	2.24

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	7.00	33.95
Last Gas Rate	0.13	11.90	9.84
Max. Gas Rate	0.13	11.90	9.84

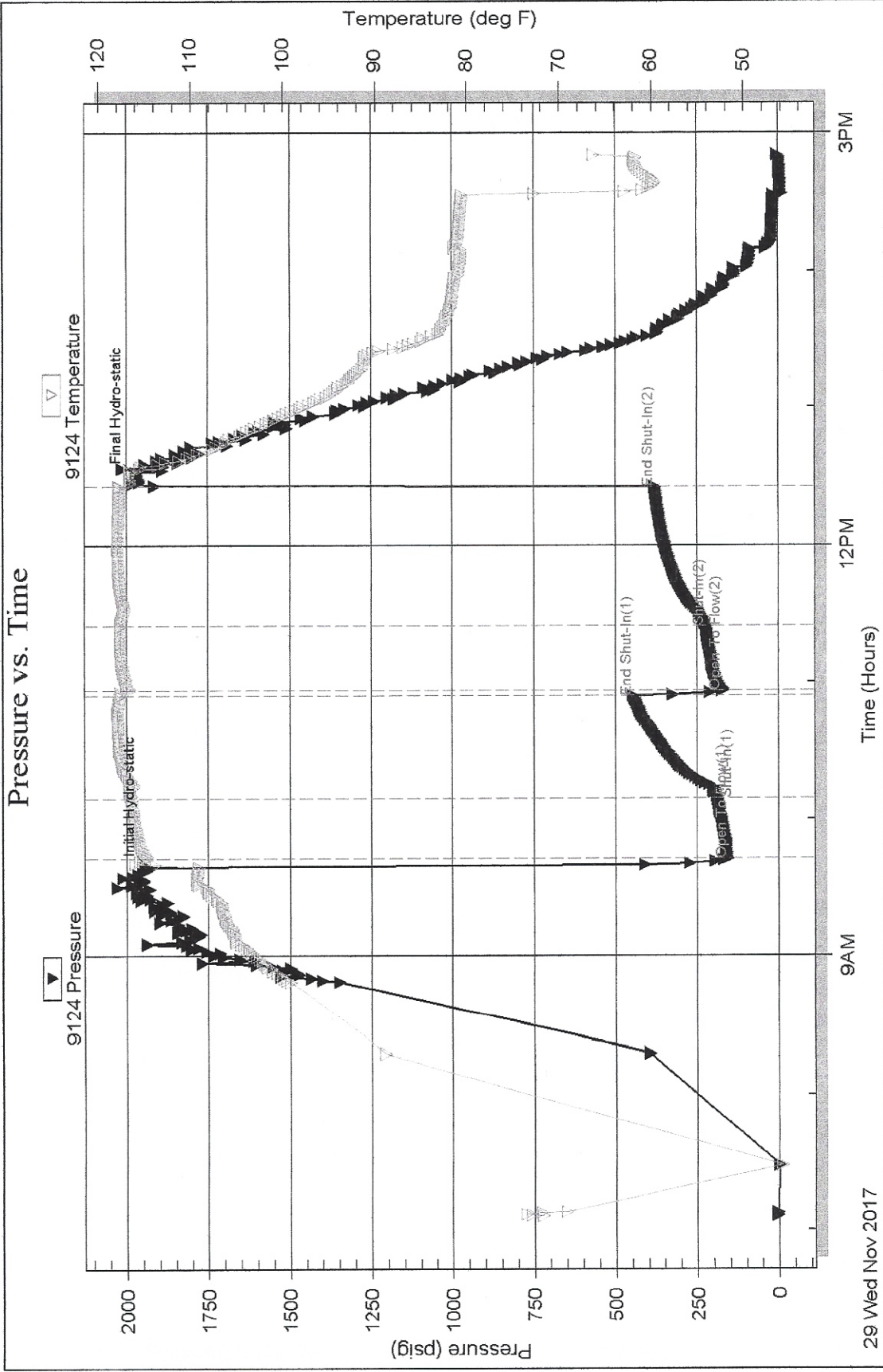
DST Test Number: 1

Dennis #1

Thomas Garner

Inside

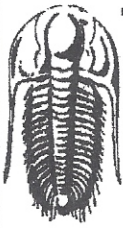
Serial #: 9124



Printed: 2017.11.29 @ 15:30:20

Ref. No: 62013

Triobite Testing, Inc



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Thomas Garner

15/25S/13W Stafford, KS

Dennis #1

Job Ticket: 62013

DST#: 1

ATTN:

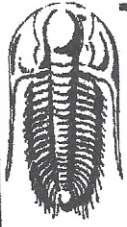
Test Start: 2017.11.29 @ 07:06:00

### Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	16	0.25	7.00	33.95
1	26	0.25	6.50	33.16
1	30	0.25	6.00	32.36
2	10	0.13	9.30	8.87
2	20	0.13	11.00	9.51
2	30	0.13	11.90	9.84



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Thomas Garner

15/25S/13W Stafford, KS

Dennis #1

Job Ticket: 62013

DST#: 1

Test Start: 2017.11.29 @ 07:06:00

ATTN:

### Mud and Cushion Information

Mud Type: Gel Chem  
 Mud Weight: 9.00 lb/gal  
 Viscosity: 54.00 sec/qt  
 Water Loss: 9.20 in<sup>3</sup>  
 Resistivity: ohm.m  
 Salinity: 4900.00 ppm  
 Filter Cake: inches

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

Oil API: 38.6 deg API  
 Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
315.00	Gassy oil cut mud 15%G 17%M & 68%O	2.451
160.00	Gassy clean oil 100%O	2.244

Total Length: 475.00 ft      Total Volume: 4.695 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Thomas Garner  
305 East 7th  
St. John, KS  
67576-1652  
ATTN: Tom Garner/Josh Aust

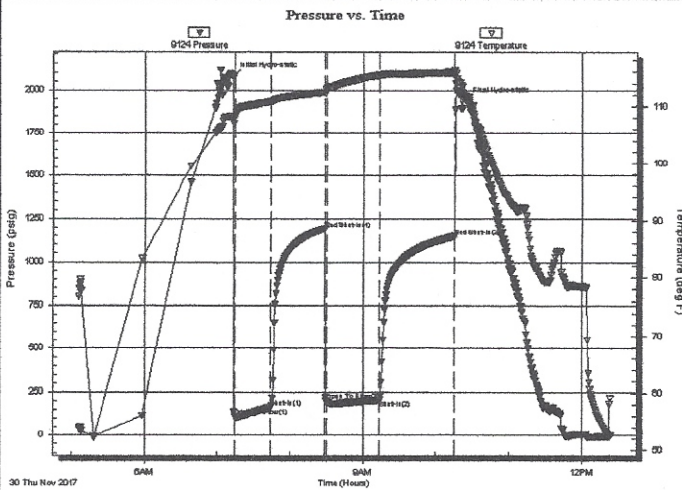
**15/25S/13W Stafford, KS**  
**Dennis #1**  
Job Ticket: 62014      **DST#: 2**  
Test Start: 2017.11.30 @ 05:06:02

## GENERAL INFORMATION:

Formation: **Simpson Sand**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 07:14:22  
Time Test Ended: 12:24:11  
Interval: **4182.00 ft (KB) To 4246.00 ft (KB) (TVD)**  
Total Depth: 4246.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Jimmy Ricketts  
Unit No: 80  
Reference Elevations: 1938.00 ft (KB)  
1927.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 9124**      **Inside**  
Press@RunDepth: 204.49 psig @ 4183.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2017.11.30      End Date: 2017.11.30      Last Calib.: 1899.12.30  
Start Time: 05:06:02      End Time: 12:24:11      Time On Btm: 2017.11.30 @ 07:13:02  
Time Off Btm: 2017.11.30 @ 10:24:11

**TEST COMMENT:** IF - Weak blow building to strong blow 26 minutes into initial flow period.  
IS - Surface blow back during initial shut-in period.  
FF - Weak blow building to strong blow 20 minutes into final flow period.  
FS - 5 inch blow back during final shut-in period.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2075.68	108.33	Initial Hydro-static
2	111.55	108.30	Open To Flow (1)
31	164.26	110.92	Shut-in(1)
76	1192.14	112.54	End Shut-in(1)
77	199.06	113.15	Open To Flow (2)
121	204.49	115.47	Shut-in(2)
183	1149.24	115.94	End Shut-in(2)
192	1938.99	111.89	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
125.00	GO&HMCW 7%G 2%O 47%W 44%M	0.61
125.00	GO&HWCW 11%G 6%O 22%W 61%M	0.92
65.00	VGHOCM 51%G 21%O 28%M	0.91
305.00	Gas in pipe 100%G	4.28

## Gas Rates

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

Serial #: 9124

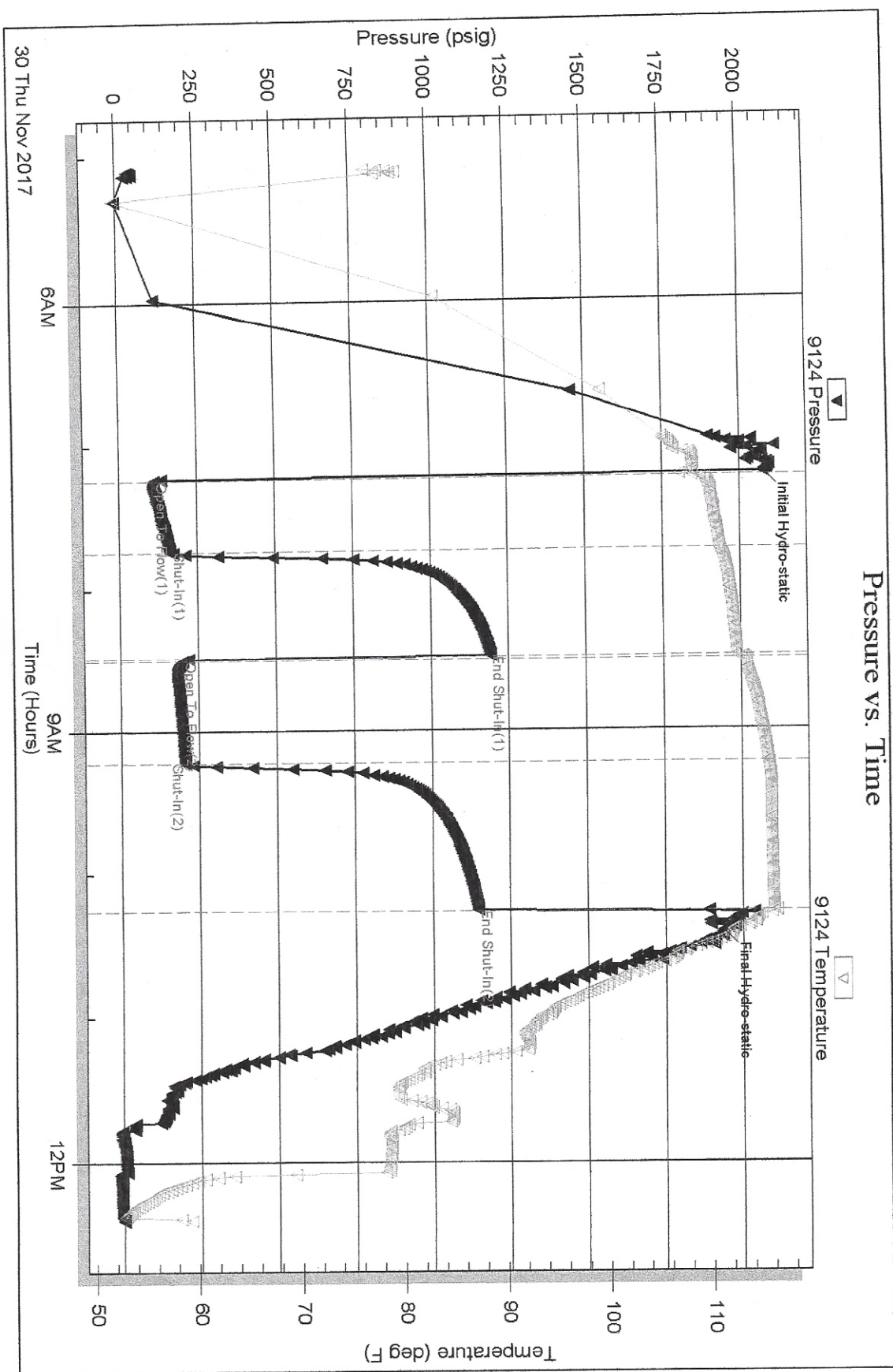
Inside

Thomas Garner

Dennis #1

DST Test Number: 2

### Pressure vs. Time





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Thomas Garner

15/25S/13W Stafford, KS

305 East 7th  
St. John, KS  
67576-1652  
ATTN: Tom Garner/Josh Aust

**Dennis #1**  
Job Ticket: 62014      **DST#: 2**  
Test Start: 2017.11.30 @ 05:06:02

**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:	14000 ppm
Viscosity: 64.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9800.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
125.00	GO&HMCW 7%G 2%O 47%W 44%M	0.615
125.00	GO&HWCM 11%G 6%O 22%W 61%M	0.924
65.00	VGHOCM 51%G 21%O 28%M	0.912
305.00	Gas in pipe 100%G	4.278

Total Length: 620.00 ft      Total Volume: 6.729 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Thomas Garner  
305 East 7th  
St. John, KS  
67576-1652  
ATTN: Tom Garner/Josh Aust

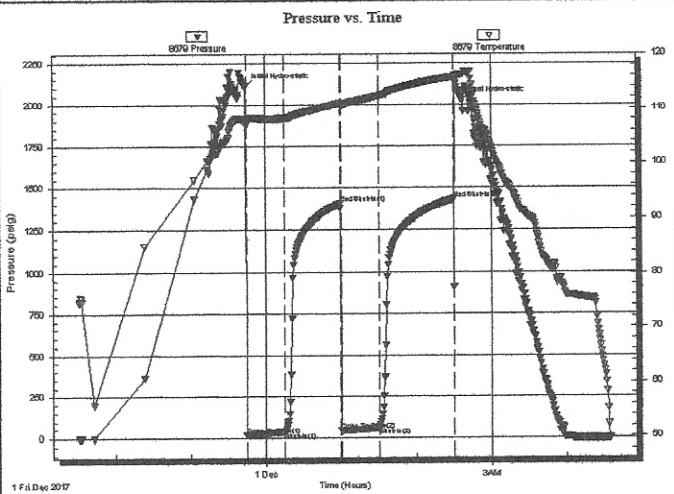
**15/25S/13W Stafford, KS**  
**Dennis #1**  
Job Ticket: 62015      **DST#: 3**  
Test Start: 2017.11.30 @ 21:31:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 23:44:30  
Time Test Ended: 04:34:20  
Interval: **4276.00 ft (KB) To 4282.00 ft (KB) (TVD)**  
Total Depth: **4282.00 ft (KB) (TVD)**  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Jimmy Ricketts  
Unit No: 80  
Reference Elevations: 1938.00 ft (KB)  
1927.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 8679**      **Outside**  
Press@RunDepth: 61.85 psig @ 4277.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2017.11.30      End Date: 2017.12.01      Last Calib.: 1899.12.30  
Start Time: 21:31:00      End Time: 04:34:20      Time On Btm: 2017.11.30 @ 23:43:40  
Time Off Btm: 2017.12.01 @ 02:36:39

**TEST COMMENT:** IF - Weak blow building to 7 inches initial flow period.  
FF - Weak blow building to 6 inches final flow period.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2107.02	107.96	Initial Hydro-static
1	19.56	106.76	Open To Flow (1)
32	38.62	108.20	Shut-In(1)
76	1403.92	110.92	End Shut-In(1)
77	44.75	110.56	Open To Flow (2)
107	61.85	112.26	Shut-In(2)
167	1429.51	115.75	End Shut-In(2)
173	2020.80	116.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Heavy oil cut mud 44%O 56%M	0.07
110.00	Clean oil 100%O	0.54

## Gas Rates

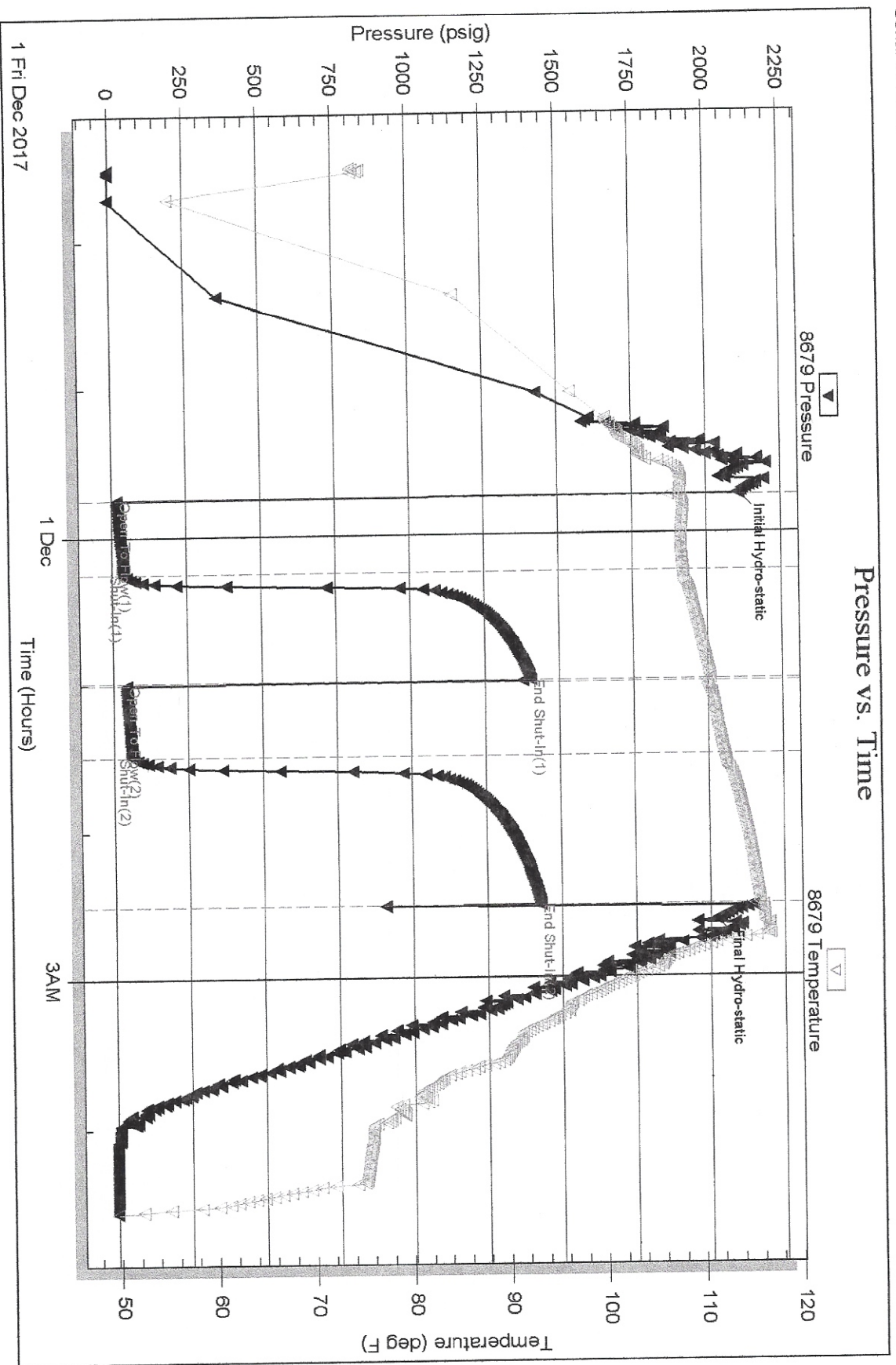
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Serial #: 8679

Outside Thomas Garner

Dennis #1

DST Test Number: 3





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Thomas Garner  
305 East 7th  
St. John, KS  
67576-1652  
ATTN: Tom Garner/Josh Aust

**15/25S/13W Stafford, KS**  
**Dennis #1**  
Job Ticket: 62015      **DST#: 3**  
Test Start: 2017.11.30 @ 21:31:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	33.9 deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	ppm
Viscosity: 64.00 sec/qt			
Water Loss: 9.20 in <sup>3</sup>	Cushion Volume:		
Resistivity: ohm.m	Gas Cushion Type:		
Salinity: 9800.00 ppm	Gas Cushion Pressure:		
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Heavy oil cut mud 44%O 56%M	0.074
110.00	Clean oil 100%O	0.541

Total Length: 125.00 ft      Total Volume: 0.615 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

TTMH 32

FIELD SERVICE TICKET

1718 16144 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB 12/2/17		DISTRICT		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:		
CUSTOMER Thomas Garner, Inc				LEASE Dennis				WELL NO. 1		
ADDRESS				COUNTY Stafford		STATE KS				
CITY				STATE		SERVICE CREW Scott, McGinnis, Dillon				
AUTHORIZED BY Tom Garner				JOB TYPE: 5/8 Production Casing 242						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
86779	1					ARRIVED AT JOB	12/1/17	AM	PM	9:45
19918	.3					START OPERATION	12/2/17	AM	PM	3:30
						FINISH OPERATION	12/2/17	AM	PM	5:00
						RELEASED	12/2/17	AM	PM	5:30
						MILES FROM STATION TO WELL				

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: X [Signature]  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	AA2 Cement	SK	150		2550 <sup>00</sup>
CP103	60/40 POZ	SK	50		600 <sup>00</sup>
CF1051	Cement Shoe Packer Type 5/8	EA	1		2800 <sup>00</sup>
CF607	Latch Down Plug + Baffle	EA	1		400 <sup>00</sup>
CF1651	Turbolizers 5/8	EA	7		770 <sup>00</sup>
CF1901	5/8 Basket	EA	1		290 <sup>00</sup>
CC151	Mud Flush	Gal	1000		1500 <sup>00</sup>
E100	Unit Mileage Charge Pick up	M1	20		90 <sup>00</sup>
E101	Heavy Equipment	M1	40		300 <sup>00</sup>
E113	Prop + Bulk Delivery	TM	18.3		457 <sup>50</sup>
CE205	Depth Charge 4000-5000'	4hr	1		2520 <sup>00</sup>
CE240	Blending + Mixing Service Chg	SK	200		280 <sup>00</sup>
CE504	Plug Container Utilization	Job	1		250 <sup>00</sup>
SC03	Service Supervisor	EA	1		175 <sup>00</sup>
SUB TOTAL					12,982 <sup>50</sup>

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		7140 <sup>38</sup>

SERVICE REPRESENTATIVE [Signature] THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: X [Signature]  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. \_\_\_\_\_

Customer <i>Thomas Garner, Inc</i>	Lease No.	Date <i>12/2/17</i>
Lease <i>Dennis</i>	Well # <i>1</i>	
Field Order # <i>16144A</i>	Station <i>Pratt KS</i>	Casing <i>5 1/2</i>
		Depth <i>4288.65</i>
Type Job <i>5 1/2 Production Casing</i>	Formation <i>Z42</i>	County <i>Stafford</i>
		State <i>KS</i>
Legal Description		

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>5 1/2</i>				Pre Pad			5 Min.	
Depth <i>4288.65</i>	Depth	From	To	Pad	Max		10 Min.	
Volume <i>102.07</i>	Volume	From	To	Frac	Min		15 Min.	
Max Press <i>7000</i>	Max Press	From	To		Avg			
Well Connection <i>5 1/2</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative <i>Tom Garner</i>	Station Manager <i>Justin Westerman</i>	Treater <i>Scott Groves</i>
Service Units <i>28950 78982 86779 19959 19918</i>		
Driver Names <i>Scott McGowan - Diller</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>9:15</i>					<i>On location Safety Meeting Rig up</i>
<i>11:15</i>					<i>Run Float Equipment 1,3,5,7,9,11,13</i>
<i>2:00</i>					<i>Break Circulation 1 hour</i>
<i>3:26</i>	<i>1200</i>				<i>Set Packer Shoe</i>
<i>3:27</i>	<i>300</i>			<i>5</i>	<i>Pump H2O Spacer</i>
<i>3:28</i>	<i>300</i>		<i>5</i>	<i>5</i>	<i>Pump Mud Flush 1000 gallons</i>
<i>3:33</i>	<i>300</i>		<i>24</i>	<i>5</i>	<i>Pump H2O Spacer</i>
<i>3:34</i>	<i>350</i>		<i>5</i>	<i>5</i>	<i>Start Cement 150 sks AA2 15#</i>
<i>3:42</i>	<i>Ø</i>		<i>40.1</i>	<i>Ø</i>	<i>Shut down</i>
<i>3:45</i>	<i>Ø</i>			<i>Ø</i>	<i>Wash Pump + lines clean</i>
<i>3:48</i>	<i>Ø</i>			<i>Ø</i>	<i>Release Plug</i>
<i>3:49</i>	<i>220</i>			<i>6.5</i>	<i>Start Displacement</i>
<i>4:00</i>	<i>400</i>		<i>70</i>	<i>6.5</i>	<i>lift Pressure</i>
<i>4:13</i>	<i>600</i>		<i>92</i>	<i>3.5</i>	<i>Reduce Rate</i>
<i>4:15</i>	<i>650</i>		<i>97</i>	<i>3.5</i>	<i>Plug landed Pressure up</i>
<i>4:15</i>	<i>1500</i>				<i>Shut down</i>
<i>4:16</i>					<i>Release Pressure NO Returns</i>
<i>4:30</i>	<i>40</i>			<i>3</i>	<i>Plug Rat hole 30sks 60/40 P02</i>
<i>4:35</i>	<i>40</i>			<i>3</i>	<i>Plug Mouse hole 20sks 60/40 P02</i>
<i>4:45</i>					<i>Wash up Equipment</i>
<i>5:00</i>					<i>Job Complete</i>





Customer <i>Thomas Garret Inc</i>		Lease No.		Date <i>11/21/17</i>	
Lease <i>Dennis</i>		Well # <i>1</i>			
Field Order # <i>16139</i>	Station <i>PIANT KS</i>	Casing <i>8 5/8</i>	Depth <i>324.71</i>	County <i>Stafford</i>	State <i>KS</i>
Type Job <i>8 5/8 Surface Pipe</i>		Formation		Legal Description	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth	Depth	From	To	Pre Pad	Max		5 Min.
Volume	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative <i>Lunny</i>	Station Manager <i>Jardin Westerman</i>	Treater <i>Scott Grimes</i>
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Service Units								
Driver Names								

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>3:15</i>					<i>On location Safety Meeting Rig</i>
<i>6:00</i>					<i>Break Circulation</i>
<i>6:24</i>	<i>100</i>			<i>5</i>	<i>Pump into spacer</i>
<i>6:25</i>	<i>250</i>		<i>3</i>	<i>5</i>	<i>start cement sockets complete</i>
<i>6:38</i>	<i>0</i>		<i>64.65</i>	<i>0</i>	<i>shut down</i>
<i>6:40</i>	<i>0</i>			<i>0</i>	<i>Release Plug</i>
<i>6:41</i>	<i>200</i>			<i>5</i>	<i>start Displacement</i>
<i>6:45</i>	<i>275</i>		<i>19.8</i>	<i>0</i>	<i>shut down cement in cellar</i>
	<i>0</i>			<i>0</i>	<i>Release line Pressure</i>
					<i>Job Complete</i>