

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
November 2016

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	Darrah, John Jay, Jr.
Well Name	GAUNT 32B 1
Doc ID	1375321

Tops

Name	Top	Datum
Anhydrite	787	1114
Oread	3063	-1162
Heebner	3156	-1255
Toronto	3177	-1276
Douglas	3194	-1293
Brown Lime	3275	-1374
Lansing	3287	-1386
G zone	3366	-1465
H zone	3410	-1509
J zone	3442	-1541
BKC	3505	-1604
Arbuckle	3525	-1624



GLOBAL OIL FIELD SERVICES, LLC

24 S. Lincoln  
RUSSELL, KS 67665

T  
23,334.80  
V 38712

# Invoice

Date	Invoice #
9/6/2017	3024

Bill To
DARRAH OIL COMPANY PO BOX 2786 WICHITA, KS 67201

P.O. No.	Terms	Project
GRUNT #1	Due on receipt	

which one

Quantity	Description	Rate	Amount
135	COMMON CEMENT	16.00	2,160.00
90	POZ	9.50	855.00
7	CALCIUM	59.00	413.00
4	GEL	21.50	86.00
236	HANDLING	1.90	448.40
	BULK MILEAGE	236.00	236.00
1	TRI-PLEX PUMP CHARGE FOR SURFACE	750.00	750.00
10	PUMP TRUCK MILEAGE	7.00	70.00
10	PICKUP FOR TRANSPORTATION OF GOODS TO JOB SITE	3.00	30.00
	30% DISCOUNT IF PAID WITHIN 15 DAYS OF INVOICE		
	BARTON CO SALES TAX	7.50%	0.00
<p>GAUNT B 32-1</p> <p>82300/800 CEMENT</p> <p>\$14965.20 PAID CK NO 45789 DATE 10/28/17</p> <p>8369.31 PAID CK NO 45825 DATE 12/1/17</p>			
Thank you for your business.			<b>Total</b> \$5,048.40

# GLOBAL OIL FIELD SERVICES, LLC

3024

REMIT TO 24 S. Lincoln  
Russell, KS 67665

SERVICE POINT: Russell KS

DATE <u>9-5-17</u>	SEC. <u>32</u>	TWP. <u>20S</u>	RANGE <u>13W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Grant 32B</u>	WELL# <u>1</u>	LOCATION <u>Southern Corridor (C.O.) line</u>			COUNTY <u>BT</u>	STATE <u>KS</u>	<u>11:45 AM</u>
OLD OR NEW (CIRCLE ONE) <u>NEW</u>							

CONTRACTOR Royal Drilling Rig 2

TYPE OF JOB Surface

HOLE SIZE 12 1/8 T.D. 330

CASING SIZE 6 5/8 DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX. MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS

DISPLACEMENT

OWNER John J. Darrah Jr

CEMENT AMOUNT ORDERED 225 60/100 3400

2% Gel

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

EQUIPMENT

PUMP TRUCK CEMENTER Cody

# 477 HELPER Jason

BULK TRUCK DRIVER Chris

# 278

BULK TRUCK DRIVER

#

TOTAL

REMARKS:  
Run 6 jls of 8 5/8 casing + 16' 1/2" hooked up  
circulated mud. Hooked up to truck pumped  
Cement to surface displaced 19 1/4 bbl of  
H2O. + shut in

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

CHARGE TO: DARRAH Oil

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

Global Oil Field Services, LLC  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Doug Budig

SIGNATURE Doug Budig

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

## GENERAL TERMS AND CONDITIONS

**DEFINITIONS:** In these terms and conditions, "GOS" shall mean Global Oil Field Services, L.L.C. and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract; "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

**TERMS:** Unless satisfactory credit has been established, CUSTOMER must tender full cash payment to GOS before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, CUSTOMER agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that CUSTOMER may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the CUSTOMER or at the option of GOS, refunded directly to CUSTOMER. For purpose of this paragraph, GOS and CUSTOMER agrees that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

**ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.

**PRICES AND TAXES:** All merchandise listed in GOS's current price schedules are F.O.B. GOS's local station is subject to change without notice. All prices are exclusive of any federal, state, local or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by GOS shall be added to the quoted price charged to CUSTOMER.

**TOWING CHARGES:** GOS will make a reasonable attempt to get to and from each job site using its own equipment. Should GOS be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by GOS, will be charged to and paid by CUSTOMER.

**PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay GOS for the expenses incurred by GOS as a result of the cancellation.

**DEAD HAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charge as set for in GOS's current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

### SERVICE CONDITIONS AND LIABILITIES:

1. GOS, carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond GOS's control, GOS shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless GOS, its officers, agents and employees, from and against any and all claims or suits for:
  - A. Damage to property or for bodily injury, sickness, disease, or death, brought by any person including CUSTOMER and/or the well owner; and
  - B. Oil spill, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with GOS's performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of GOS or its employees.
2. With respect to any of GOS's tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to GOS at the landing, CUSTOMER shall either recover the lost item without cost to GOS or reimburse GOS the current replacement cost of the item unless the loss or damage results from the sole negligence of GOS or its employees.
3. GOS does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

### WARRANTIES:

1. GOS warrants all merchandise manufacture or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. GOS's obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, as its option, for any merchandise which is determined by GOS to be defective. THIS IS THE SOLE WARRANTY OF GOS AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESSED OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANT ABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and GOS shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.
2. More specifically:
  - A. Nothing in this contract shall be construed as a warranty by GOS of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.
  - B. Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by GOS or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by GOS, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of GOS or its employees in the preparation or furnishing of such facts, information or data.
  - C. Work done by GOS shall be under the direct supervision and control of the CUSTOMER or his agent and GOS will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

GLOBAL OIL FIELD SERVICES, LLC

# Invoice

24 S. Lincoln  
RUSSELL, KS 67665

Date	Invoice #
9/8/2017	3082

Bill To
DARRAH OIL COMPANY PO BOX 2786 WICHITA, KS 67201

P.O. No.	Terms	Project
GAUNT#32B1	Due on receipt	

Quantity	Description	Rate	Amount
100	COMMON CEMENT	16.00	1,600.00
4	CALCIUM	59.00	236.00
104	HANDLING	1.90	197.60
	BULK MILEAGE	124.80	124.80
1	TRI-PLEX PUMP CHARGE FOR SURFACE	300.00	300.00
	25% DISCOUNT IF PAID WITHIN 15 DAYS OF INVOICE		
	BARTON CO SALES TAX	7.50%	0.00

*82300/800  
Cement*

Thank you for your business.

**Total**

\$2,458.40



# GLOBAL OIL FIELD SERVICES, LLC

3082

REMIT TO 24 S. Lincoln  
Russell, KS 67665

SERVICE POINT Russell KS

DATE <u>9-6-17</u>	SEC. <u>32</u>	TWP. <u>20S</u>	RANGE <u>13W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Count</u>	WELL #. <u>3281</u>	LOCATION <u>South of Grand Bend KS (10) Line West</u>			COUNTY <u>BT</u>	STATE <u>KS</u>	
OLD OR NEW (CIRCLE ONE) <u>3</u>				<u>1/4 N. W. 10</u>			

CONTRACTOR Royal Drilling Rig 1

TYPE OF JOB Top of Surface

HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_

CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS \_\_\_\_\_

DISPLACEMENT \_\_\_\_\_

OWNER DARRAH oil

CEMENT AMOUNT ORDERED 100 SK 30/10

EQUIPMENT

PUMP TRUCK # 417 CEMENTER Cody

HELPER Jason

BULK TRUCK # 378 DRIVER Tom

DRIVER \_\_\_\_\_

COMMON \_\_\_\_\_ @ \_\_\_\_\_

POZMIX \_\_\_\_\_ @ \_\_\_\_\_

GEL \_\_\_\_\_ @ \_\_\_\_\_

CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_

ASC \_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

HANDLING \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

REMARKS:

Cement Fell Back 25' do to Sand Hooked

up pumped 100 SKS com 30/10 cement to surface

CHARGE TO: DARRAH oil

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB \_\_\_\_\_

PUMP TRUCK CHARGE \_\_\_\_\_

EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

Global Oil Field Services, LLC

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME \_\_\_\_\_

SIGNATURE [Signature]

PLUG & FLOAT EQUIPMENT

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

## GENERAL TERMS AND CONDITIONS

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**TERMS:** Unless satisfactory credit has been established, CUSTOMER must tender full cash payment to GOS before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, CUSTOMER agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that CUSTOMER may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the CUSTOMER or at the option of GOS, refunded directly to CUSTOMER. For purpose of this paragraph, GOS and CUSTOMER agrees that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

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### SERVICE CONDITIONS AND LIABILITIES:

1. GOS, carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond GOS's control, GOS shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless GOS, its officers, agents and employees, from and against any and all claims or suits for:
  - A. Damage to property or for bodily injury, sickness, disease, or death, brought by any person including CUSTOMER and/or the well owner; and
  - B. Oil spill, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with GOS's performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of GOS or its employees.
2. With respect to any of GOS's tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to GOS at the landing, CUSTOMER shall either recover the lost item without cost to GOS or reimburse GOS the current replacement cost of the item unless the loss or damage results from the sole negligence of GOS or its employees.
3. GOS does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

### WARRANTIES:

1. GOS warrants all merchandise manufacture or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. GOS's obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, as its option, for any merchandise which is determined by GOS to be defective. THIS IS THE SOLE WARRANTY OF GOS AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESSED OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANT ABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and GOS shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.
2. More specifically:
  - A. Nothing in this contract shall be construed as a warranty by GOS of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.
  - B. Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by GOS or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by GOS, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of GOS or its employees in the preparation or furnishing of such facts, information or data.
  - C. Work done by GOS shall be under the direct supervision and control of the CUSTOMER or his agent and GOS will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

GLOBAL OIL FIELD SERVICES, LLC

# Invoice

24 S. Lincoln  
RUSSELL, KS 67665

Date	Invoice #
9/18/2017	3087

Bill To
DARRAH OIL COMPANY PO BOX 2786 WICHITA,KS 67201

P.O. No.	Terms	Project
GAUNT 32B	Due on receipt	

Quantity	Description	Rate	Amount
190	COMMON CEMENT	16.00	3,040.00
17	SALT	16.00	272.00
4	GEL	21.50	86.00
211	HANDLING	1.90	400.90
	BULK MILEAGE	422.00	422.00
1	TRI-PLEX PUMP CHARGE FOR LONGSTRING	1,450.00	1,450.00
10	PUMP TRUCK MILEAGE	7.00	70.00
10	PICKUP FOR TRANSPORTATION OF GOODS TO JOB SITE	3.00	30.00
1	5 1/2 AFU FLOAT SHOE	325.00	325.00
1	5 1/2 LD PLUG & BAFFLE	285.00	285.00
1	5 1/2 BASKET	215.00	215.00
5	5 1/2 CENTRALIZER	72.50	362.50
500	MUD FLUSH	1.00	500.00
1	20% DISCOUNT IF PAID WITHIN 15 DAYS OF INVOICE	0.00	0.00
	BARTON CO SALES TAX	7.50%	0.00

82300/800  
CEMENT

Thank you for your business.

**Total**

\$7,458.40

THE UNIVERSITY OF CHICAGO  
DIVISION OF THE PHYSICAL SCIENCES  
DEPARTMENT OF CHEMISTRY  
5708 SOUTH CAMPUS DRIVE  
CHICAGO, ILLINOIS 60637

RECEIVED  
DEPARTMENT OF CHEMISTRY  
UNIVERSITY OF CHICAGO  
5708 SOUTH CAMPUS DRIVE  
CHICAGO, ILLINOIS 60637

DEPARTMENT OF CHEMISTRY  
UNIVERSITY OF CHICAGO  
5708 SOUTH CAMPUS DRIVE  
CHICAGO, ILLINOIS 60637

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UNIVERSITY OF CHICAGO  
5708 SOUTH CAMPUS DRIVE  
CHICAGO, ILLINOIS 60637

# GLOBAL OIL FIELD SERVICES, LLC

3087

REMIT TO 24 S. Lincoln  
Russell, KS 67665

SERVICE POINT: Russell, KS

DATE <u>7-12-17</u>	SEC. <u>32</u>	TWP. <u>20</u>	RANGE <u>13</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>8:00am</u>
LEASE <u>Gaunt</u>	WELL #. <u>3281</u>	LOCATION <u>Great Bend, KS S to County</u>			COUNTY <u>Barton</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (CIRCLE ONE)		line, 2W 1/2 N Winto					

CONTRACTOR Royal Drilling

TYPE OF JOB Long string

HOLE SIZE 7 7/8 T.D. 3540

CASING SIZE 5 1/2 DEPTH 3540

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX. 1300psi MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS

DISPLACEMENT 87 1/2 bbl

EQUIPMENT

---

PUMP TRUCK CEMENTER Heath

# 417 HELPER Jason

BULK TRUCK

# 412 DRIVER Tom

BULK TRUCK

# DRIVER

OWNER

CEMENT

AMOUNT ORDERED 190 sz com 10% salt

2% gel

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

REMARKS:

Run 85 lbs of 5 1/2 casing and landing it  
Hook up and est circulation with mud pump  
for 1hr! Hook up and mix 145 sz down  
5 1/2 casing - shut down and wash pump  
and lines clean - Release plug and disp  
bbl at 1120 - lifting pressure @ 500 psi - plug  
landed @ 1300 psi - Release and float held

Plug RH = 30 szs MH = 15 szs

CHARGE TO: Darrah

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

5 1/2 float Equipment

1 - CD & Plug @

1 - Basket @

5 - Cent @

1 - AFU Shoe @

TOTAL

Global Oil Field Services, LLC

You are hereby requested to rent cementing equipment and furnish cement and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME PHILIP MARTIN

SIGNATURE Philip Martin

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS



## DRILL STEM TEST REPORT

Prepared For: **Darrah John Jay Jr.**

P.O.Box 2786  
Wichita, Kansas 67201

ATTN: Seth Evenson

**Gaunt 32 B # 1**

**32-20s-13w Barton**

Start Date: 2017.09.10 @ 06:38:00

End Date: 2017.09.10 @ 00:00:00

Job Ticket #: 01185                      DST #: 1

Eagle Testers  
1309 Patton Road    Great Bend, Kansas 67530  
620-791-7394

Printed: 2017.09.10 @ 15:44:35

Darrah John Jay Jr.    32-20s-13w Barton    Gaunt 32 B # 1    DST # 1    Kansas City "H-K"    2017.09.10



# DRILL STEM TEST REPORT

Darrah John Jay Jr.  
 P.O.Box 2786  
 Wichita, Kansas 67201  
 ATTN: Seth Evenson

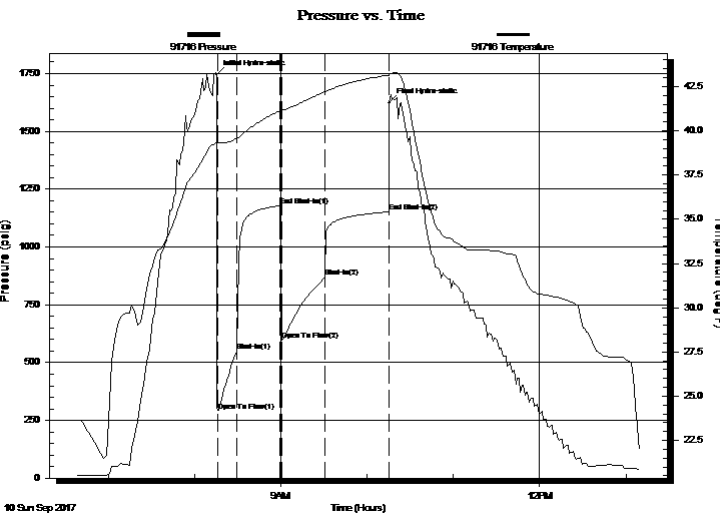
**32-20s-13w Barton**  
**Gaunt 32 B # 1**  
 Job Ticket: 01185 **DST#: 1**  
 Test Start: 2017.09.10 @ 06:38:00

## GENERAL INFORMATION:

Formation: **Kansas City "H-K"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 08:16:00 Tester: Gene Budig1  
 Time Test Ended: 00:00:00 Unit No:  
 Interval: **3403.00 ft (KB) To 3505.00 ft (KB) (TVD)** Reference Elevations: 1901.00 ft (KB)  
 Total Depth: 3505.00 ft (KB) (TVD) 1895.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 6.00 ft

**Serial #: 91716 Outside**  
 Press@RunDepth: 1150.72 psig @ 3500.06 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2017.09.10 End Date: 2017.09.10 Last Calib.: 1899.12.30  
 Start Time: 06:38:00 End Time: 13:09:59 Time On Btm: 2017.09.10 @ 08:15:00  
 Time Off Btm: 2017.09.10 @ 10:15:30

**TEST COMMENT:** 1st Opening 15 Minutes Good blow built to the bottom of a 5 gallon bucket in 1 minute  
 1st Shut-In 30 Minutes No blow back  
 2nd Opening 30 Minutes good blow built to the bottom of A 5 gallon bucket in 1 1/2 minutes  
 2nd Opening 45 Minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1746.02	39.36	Initial Hydro-static
1	291.70	39.36	Open To Flow (1)
15	550.78	39.56	Shut-In(1)
45	1178.49	41.15	End Shut-In(1)
46	595.64	41.18	Open To Flow (2)
76	869.09	42.20	Shut-In(2)
120	1150.72	43.15	End Shut-In(2)
121	1623.86	43.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
75.00	oil cut muddy w ater	1.05
0.00	2%gas 8%Oil 40%Mud 40%Water	0.00
120.00	10%Gas 10%Oil 30%Mud 50%Water	1.68
180.00	25%Gas 10%Oil 50%Mud 15%Water	2.52
180.00	23%Gas 12%Oil 45%Mud 20%Water	2.52
180.00	20%Gas 10%Oil 15%Mud 55%Water	2.52

## Gas Rates

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



# DRILL STEM TEST REPORT

Darrah John Jay Jr.  
 P.O.Box 2786  
 Wichita, Kansas 67201  
 ATTN: Seth Evenson

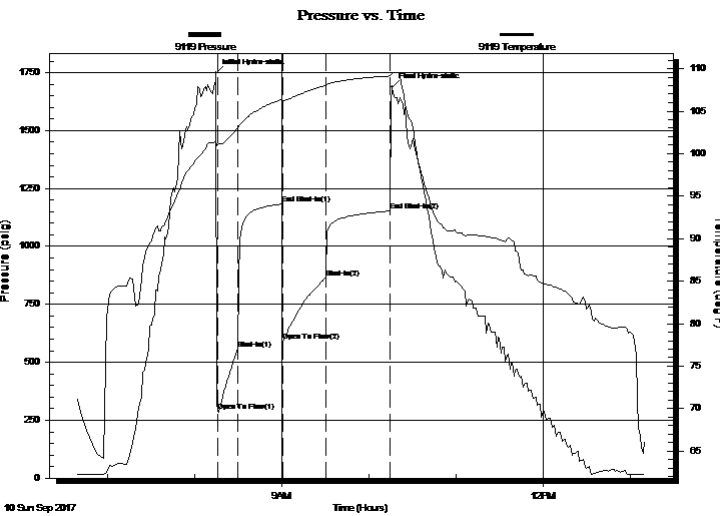
**32-20s-13w Barton**  
**Gaunt 32 B # 1**  
 Job Ticket: 01185      **DST#: 1**  
 Test Start: 2017.09.10 @ 06:38:00

## GENERAL INFORMATION:

Formation: **Kansas City "H-K"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 08:16:00 Tester: Gene Budig1  
 Time Test Ended: 00:00:00 Unit No:  
 Interval: **3403.00 ft (KB) To 3505.00 ft (KB) (TVD)** Reference Elevations: 1901.00 ft (KB)  
 Total Depth: 3505.00 ft (KB) (TVD) 1895.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 6.00 ft

**Serial #: 9119 Inside**  
 Press@RunDepth: 1153.03 psig @ 3500.06 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2017.09.10 End Date: 2017.09.10 Last Calib.: 2017.09.10  
 Start Time: 06:38:00 End Time: 13:09:59 Time On Btm: 2017.09.10 @ 08:14:30  
 Time Off Btm: 2017.09.10 @ 10:16:00

**TEST COMMENT:** 1st Opening 15 Minutes Good blow built to the bottom of a 5 gallon bucket in 1 minute  
 1st Shut-In 30 Minutes No blow back  
 2nd Opening 30 Minutes good blow built to the bottom of A 5 gallon bucket in 1 1/2 minutes  
 2nd Opening 45 Minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1747.84	101.48	Initial Hydro-static
1	286.86	101.04	Open To Flow (1)
15	556.08	103.03	Shut-In(1)
45	1182.19	106.38	End Shut-In(1)
46	591.56	106.21	Open To Flow (2)
76	863.75	108.03	Shut-In(2)
120	1153.03	109.13	End Shut-In(2)
122	1687.30	109.43	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
75.00	oil cut muddy w ater	1.05
0.00	2%gas 8%Oil 40%Mud 40%Water	0.00
120.00	10%Gas 10%Oil 30%Mud 50%Water	1.68
180.00	25%Gas 10%Oil 50%Mud 15%Water	2.52
180.00	23%Gas 12%Oil 45%Mud 20%Water	2.52
180.00	20%Gas 10%Oil 15%Mud 55%Water	2.52

## Gas Rates

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





# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Darrah John Jay Jr.

**32-20s-13w Barton**

P.O.Box 2786  
Wichita, Kansas 67201

**Gaunt 32 B # 1**

Job Ticket: 01185

**DST#: 1**

ATTN: Seth Evenson

Test Start: 2017.09.10 @ 06:38:00

## Tool Information

Drill Pipe:	Length: 3391.00 ft	Diameter: 3.80 inches	Volume: 47.57 bbl	Tool Weight: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 2000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 26000.00 lb
			<u>Total Volume: 47.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 20000.00 lb
Depth to Top Packer:	3403.00 ft			Final 22000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	102.06 ft			
Tool Length:	122.06 ft			
Number of Packers:	2	Diameter: 6.78 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3388.00	
Hydraulic tool	5.00			3393.00	
Packer	5.00			3398.00	20.00 Bottom Of Top Packer
Packer	5.00		Fluid	3403.00	
Anchor	5.00			3408.00	
Change Over Sub	0.75			3408.75	
Drill Pipe	63.56			3472.31	
Change Over Sub	0.75		Inside	3473.06	
Anchor	27.00			3500.06	
Recorder	0.00	9119	Inside	3500.06	
Recorder	0.00	91716	Outside	3500.06	
Bullnose	5.00			3505.06	102.06 Bottom Packers & Anchor

**Total Tool Length: 122.06**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Darrah John Jay Jr.

**32-20s-13w Barton**

P.O.Box 2786  
Wichita, Kansas 67201

**Gaunt 32 B # 1**

Job Ticket: 01185

**DST#: 1**

ATTN: Seth Evenson

Test Start: 2017.09.10 @ 06:38:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 51.00 sec/qt  
Water Loss: in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: ppm  
Filter Cake: inches

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

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

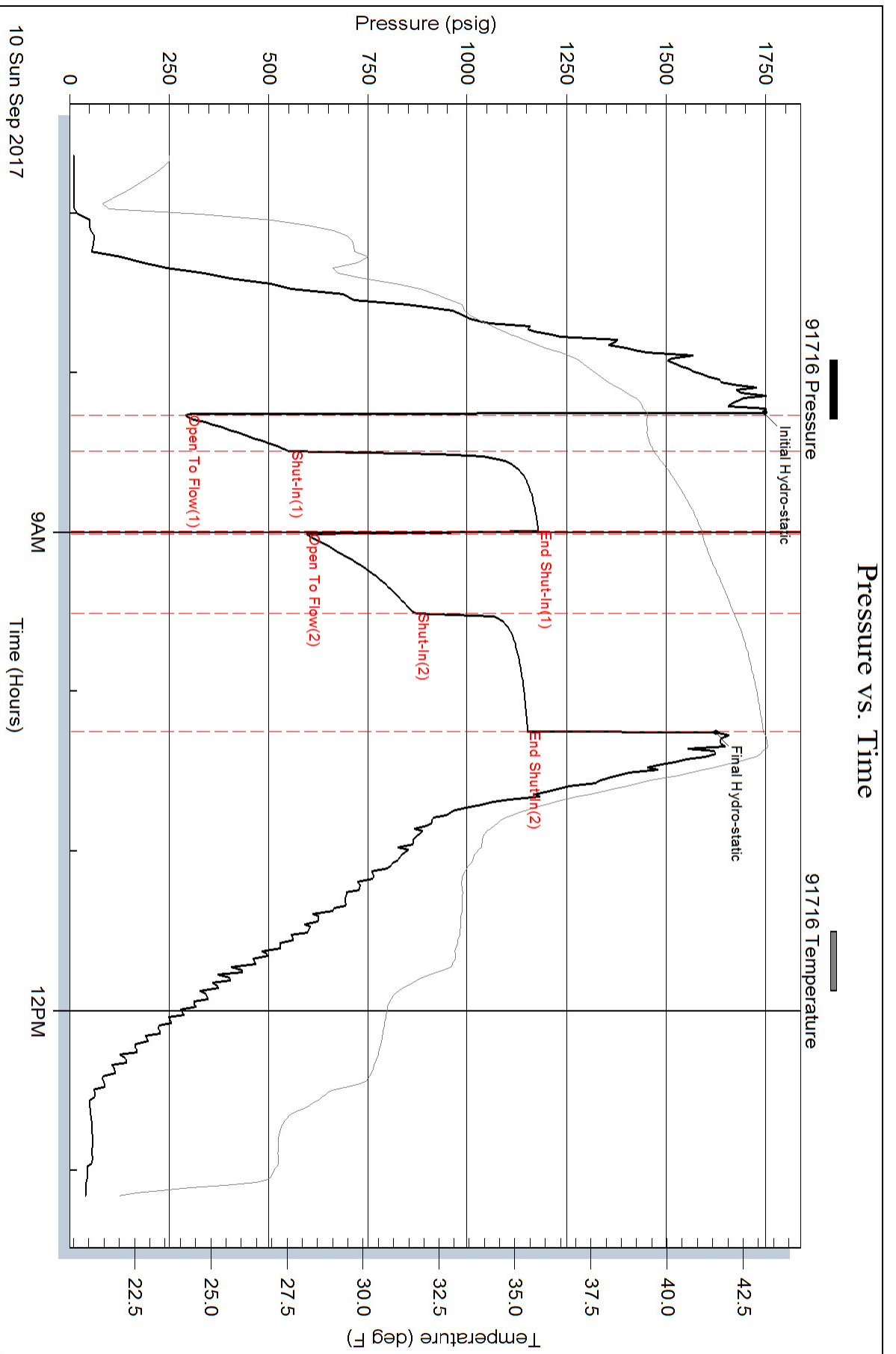
Length ft	Description	Volume bbl
75.00	oil cut muddy w ater	1.052
0.00	2%gas 8%Oil 40%Mud 40%Water	0.000
120.00	10%Gas 10%Oil 30%Mud 50%Water	1.683
180.00	25%Gas 10%Oil 50%Mud 15%Water	2.525
180.00	23%Gas 12%Oil 45%Mud 20%Water	2.525
180.00	20%Gas 10%Oil 15%Mud 55%Water	2.525
180.00	10%Gas 10%Oil 30%Mud 50%Oil	2.525
180.00	5%gas 10%Oil 25% Mud 60%Oil	2.525
180.00	7%Gas 8%Oil 10%Mud75%Water	2.525
120.00	5%Gas 3%Oil 8%Mud 86%Water	1.683
120.00	5%Oil 10%Mud 90%Water	1.683
0.00	100 feet of gas in the pipe	0.000
0.00	Chlorides 58,000	0.000

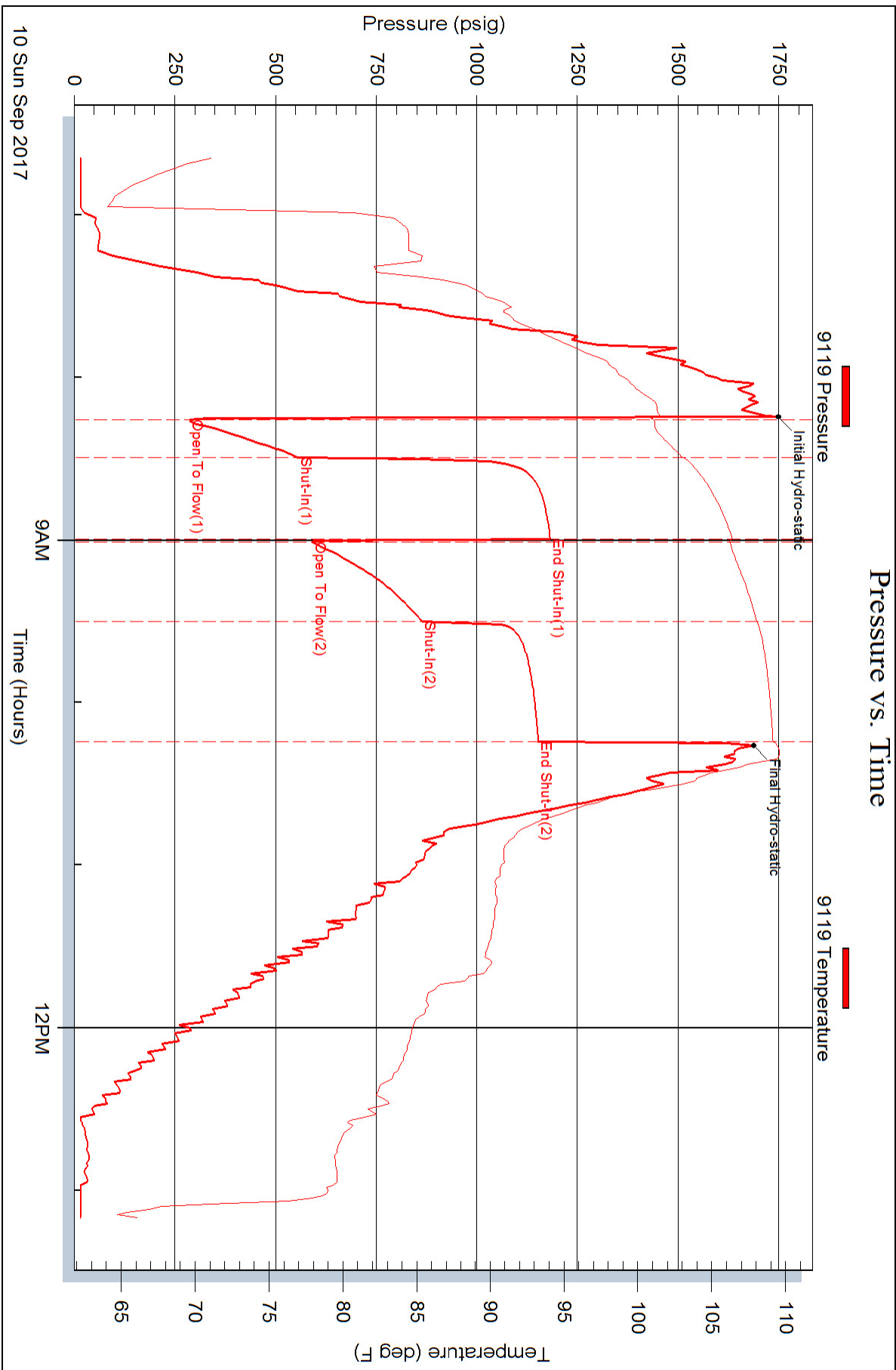
Total Length: 1515.00 ft      Total Volume: 21.251 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Darrah John Jay Jr.**

P.O.Box 2786  
Wichita, Kansas 67201

ATTN: Seth Evenson

**Gaunt 32 B # 1**

**32-20s-13w Barton**

Start Date: 2017.09.10 @ 13:15:00

End Date: 2017.09.10 @ 00:00:00

Job Ticket #: 11086                      DST #: 2

Eagle Testers  
1309 Patton Road    Great Bend, Kansas 67530  
620-791-7394

Printed: 2017.09.10 @ 19:20:15

Darrah John Jay Jr.  
32-20s-13w Barton  
Gaunt 32 B # 1  
DST # 2  
Kansas City  
2017.09.10



# DRILL STEM TEST REPORT

Darrah John Jay Jr.  
 P.O.Box 2786  
 Wichita, Kansas 67201  
 ATTN: Seth Evenson

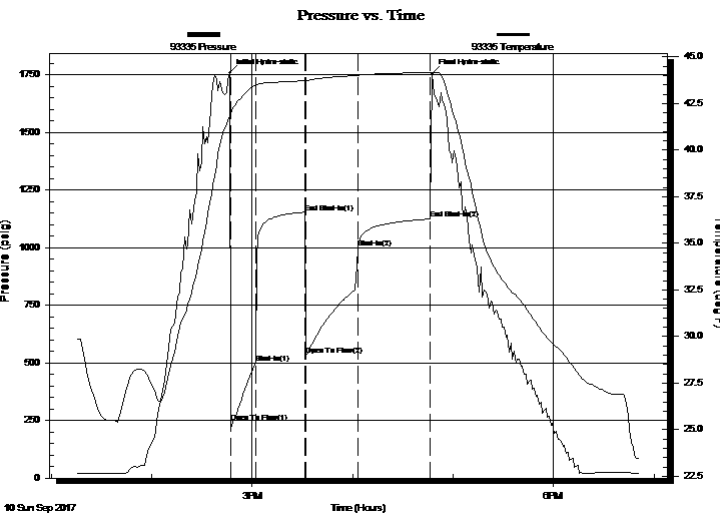
**32-20s-13w Barton**  
**Gaunt 32 B # 1**  
 Job Ticket: 11086 **DST#: 2**  
 Test Start: 2017.09.10 @ 13:15:00

## GENERAL INFORMATION:

Formation: **Kansas City**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 02:43:00 Tester: Gene Budig  
 Time Test Ended: 00:00:00 Unit No: 1  
 Interval: **3429.00 ft (KB) To 3505.00 ft (KB) (TVD)** Reference Elevations: 1901.00 ft (KB)  
 Total Depth: 3505.00 ft (KB) (TVD) 1895.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 6.00 ft

**Serial #: 93335 Outside**  
 Press@RunDepth: 1124.38 psig @ 3499.77 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2017.09.10 End Date: 2017.09.10 Last Calib.: 1899.12.30  
 Start Time: 13:15:00 End Time: 18:51:29 Time On Btm: 2017.09.10 @ 14:46:30  
 Time Off Btm: 2017.09.10 @ 16:47:30

**TEST COMMENT:** 1st Opening 15 Minutes good blow built to the bottom of a 5 gallon bucket in 1 minute  
 1st Shut-In 30 Minutes no blow back  
 2nd Opening 30 Minutes good blow built to the bottom of a 5 gallon bucket in 1 1/2 minutes  
 2nd sShut-In 45 Minutea no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1757.15	41.85	Initial Hydro-static
1	243.59	41.98	Open To Flow (1)
16	498.72	43.47	Shut-In(1)
45	1152.71	43.74	End Shut-In(1)
46	532.28	43.74	Open To Flow (2)
77	998.63	44.01	Shut-In(2)
120	1124.38	44.16	End Shut-In(2)
121	1753.36	44.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	200 feet of gas in the pipe	0.00
180.00	10%Gas 10%Oil 30%Mud 50%Water	2.52
180.00	10%Gas 10%Oil 25% Mud 55%Water	2.52
180.00	5%Gas 20%Oil 20%Mud 55%Water	2.52
180.00	5%Gas 25%Oil 15%Mud 50%Water	2.52
180.00	5%Oil 5%Mud 90%Water	2.52

## Gas Rates

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



# DRILL STEM TEST REPORT

Darrah John Jay Jr.  
 P.O.Box 2786  
 Wichita, Kansas 67201  
 ATTN: Seth Evenson

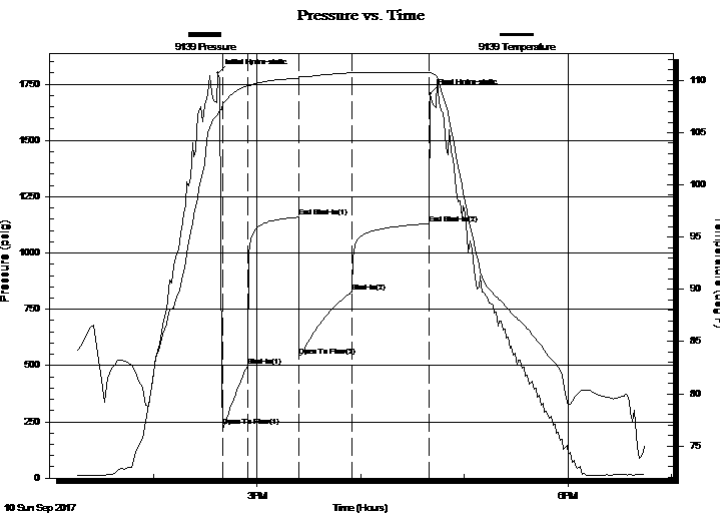
**32-20s-13w Barton**  
**Gaunt 32 B # 1**  
 Job Ticket: 11086 **DST#: 2**  
 Test Start: 2017.09.10 @ 13:15:00

## GENERAL INFORMATION:

Formation: **Kansas City**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 02:43:00 Tester: Gene Budig  
 Time Test Ended: 00:00:00 Unit No: 1  
 Interval: **3429.00 ft (KB) To 3505.00 ft (KB) (TVD)** Reference Elevations: 1901.00 ft (KB)  
 Total Depth: 3505.00 ft (KB) (TVD) 1895.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 6.00 ft

**Serial #: 9139 Inside**  
 Press@RunDepth: 1127.84 psig @ 3499.77 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2017.09.10 End Date: 2017.09.10 Last Calib.: 1899.12.30  
 Start Time: 13:15:00 End Time: 18:44:22 Time On Btm: 2017.09.10 @ 14:37:23  
 Time Off Btm: 2017.09.10 @ 16:40:23

**TEST COMMENT:** 1st Opening 15 Minutes good blow built to the bottom of a 5 gallon bucket in 1 minute  
 1st Shut-In 30 Minutes no blow back  
 2nd Opening 30 Minutes good blow built to the bottom of a 5 gallon bucket in 1 1/2 minutes  
 2nd sShut-In 45 Minutea no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1798.68	106.76	Initial Hydro-static
3	228.97	107.78	Open To Flow (1)
17	499.27	109.52	Shut-In(1)
47	1159.36	110.22	End Shut-In(1)
47	540.24	110.35	Open To Flow (2)
78	827.09	110.73	Shut-In(2)
122	1127.84	110.76	End Shut-In(2)
123	1707.48	110.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	200 feet of gas in the pipe	0.00
180.00	10%Gas 10%Oil 30%Mud 50%Water	2.52
180.00	10%Gas 10%Oil 25% Mud 55%Water	2.52
180.00	5%Gas 20%Oil 20%Mud 55%Water	2.52
180.00	5%Gas 25%Oil 15%Mud 50%Water	2.52
180.00	5%Oil 5%Mud 90%Water	2.52

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Darrah John Jay Jr.

**32-20s-13w Barton**

P.O.Box 2786  
Wichita, Kansas 67201

**Gaunt 32 B # 1**

Job Ticket: 11086

**DST#: 2**

ATTN: Seth Evenson

Test Start: 2017.09.10 @ 13:15:00

## Tool Information

Drill Pipe:	Length: 3423.00 ft	Diameter: 3.80 inches	Volume: 48.02 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 34000.00 lb
			<u>Total Volume: 48.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 28000.00 lb
Depth to Top Packer:	3429.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.77 ft			
Tool Length:	95.77 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			3414.00	
Hydraulic tool	5.00			3419.00	
Packer	5.00			3424.00	20.00 Bottom Of Top Packer
Packer	5.00		Fluid	3429.00	
Anchor	5.00			3434.00	
Change Over Sub	0.75			3434.75	
Drill Pipe	31.27			3466.02	
Change Over Sub	0.75		Inside	3466.77	
Anchor	33.00			3499.77	
Recorder	0.00	9139	Inside	3499.77	
Recorder	0.00	93335	Outside	3499.77	
Bullnose	5.00			3504.77	75.77 Bottom Packers & Anchor

**Total Tool Length: 95.77**





# DRILL STEM TEST REPORT

## FLUID SUMMARY

Darrah John Jay Jr.

**32-20s-13w Barton**

P.O.Box 2786  
Wichita, Kansas 67201

**Gaunt 32 B # 1**

Job Ticket: 11086

**DST#: 2**

ATTN: Seth Evenson

Test Start: 2017.09.10 @ 13:15:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 51.00 sec/qt  
Water Loss: in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: ppm  
Filter Cake: inches

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

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	200 feet of gas in the pipe	0.000
180.00	10%Gas 10%Oil 30%Mud 50%Water	2.525
180.00	10%Gas 10%Oil 25% Mud 55%Water	2.525
180.00	5%Gas 20%Oil 20%Mud 55%Water	2.525
180.00	5%Gas 25%Oil 15%Mud 50%Water	2.525
180.00	5%Oil 5%Mud 90%Water	2.525
180.00	15%Gas 13% Oil 2%Mud 70%Water	2.525
180.00	10%Oil 2%Mud 89%Water	2.525
180.00	1%Oil 3%Mud 96%Water	2.525
0.00	Chlorides 58,000	0.000

Total Length: 1440.00 ft      Total Volume: 20.200 bbl

Num Fluid Samples: 0

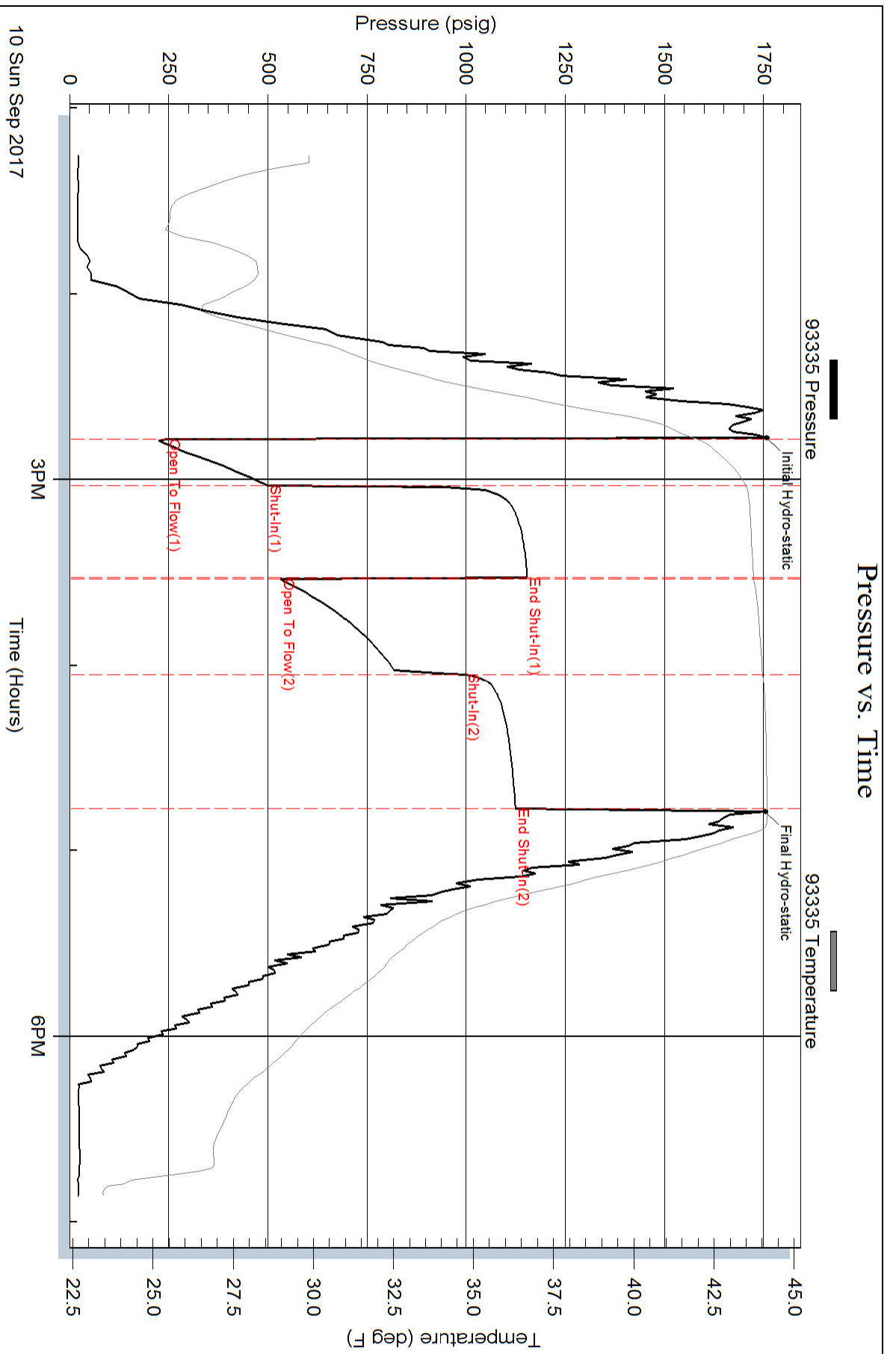
Num Gas Bombs: 0

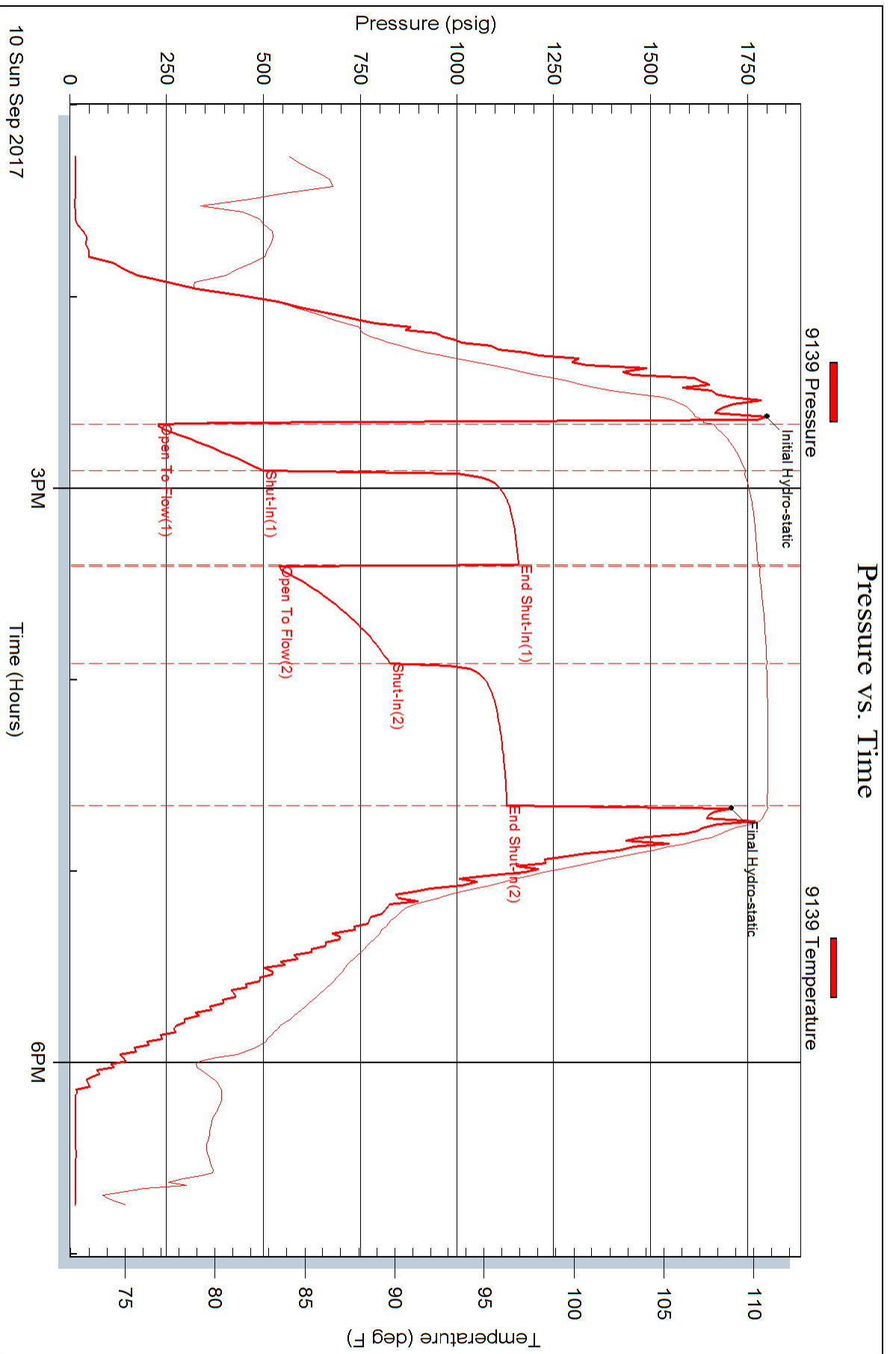
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Darrah John Jay Jr.**

P.O.Box 2786  
Wichita, Kansas 67201

ATTN: Seth Evenson

**Gaunt 32 B # 1**

**32-20s-13w Barton**

Start Date: 2017.09.11 @ 05:54:00

End Date: 2017.09.11 @ 00:00:00

Job Ticket #: 01187                      DST #: 3

Eagle Testers  
1309 Patton Road    Great Bend, Kansas 67530  
620-791-7394

Printed: 2017.09.11 @ 11:16:35

Darrah John Jay Jr.    32-20s-13w Barton    Gaunt 32 B # 1    DST # 3    Arbuckle    2017.09.11



# DRILL STEM TEST REPORT

Darrah John Jay Jr.  
 P.O.Box 2786  
 Wichita, Kansas 67201  
 ATTN: Seth Evenson

**32-20s-13w Barton**  
**Gaunt 32 B # 1**  
 Job Ticket: 01187 **DST#: 3**  
 Test Start: 2017.09.11 @ 05:54:00

## GENERAL INFORMATION:

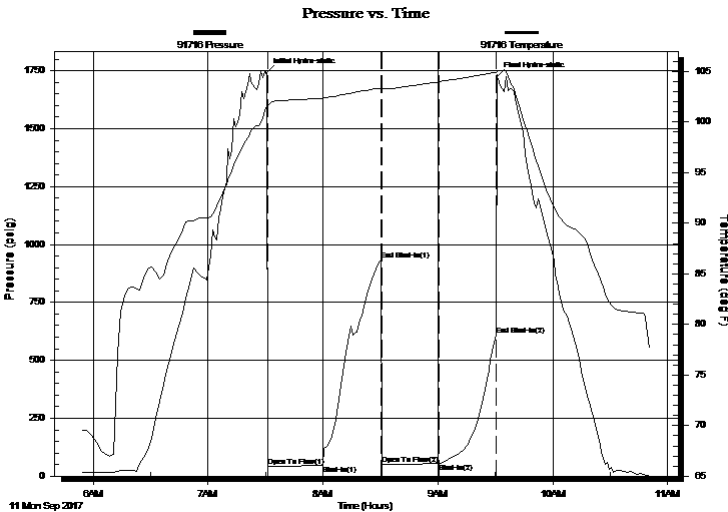
Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:31:00  
 Time Test Ended: 00:00:00  
 Interval: **3510.00 ft (KB) To 3540.00 ft (KB) (TVD)**  
 Total Depth: 3540.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 1  
 Reference Elevations: 1901.00 ft (KB)  
 1895.00 ft (CF)  
 KB to GR/CF: 6.00 ft

## Serial #: 91716 Outside

Press@RunDepth: 610.40 psig @ 3535.00 ft (KB) Capacity: psig  
 Start Date: 2017.09.11 End Date: 2017.09.11 Last Calib.: 1899.12.30  
 Start Time: 05:54:00 End Time: 10:51:00 Time On Btm: 2017.09.11 @ 07:30:30  
 Time Off Btm: 2017.09.11 @ 09:31:00

TEST COMMENT: 1st Opening 30 Minutes weak building blow built to 2 inches into the water  
 1st Shut-In 30 Minutes no blow back  
 2nd opening 30 Minutes weak building blow built to 3 inches into the water  
 2nd shut-In 30 Minutes noblow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1741.30	101.52	Initial Hydro-static
1	44.04	101.66	Open To Flow (1)
30	46.08	102.39	Shut-In(1)
60	934.74	103.40	End Shut-In(1)
61	49.93	103.37	Open To Flow (2)
90	54.19	103.98	Shut-In(2)
120	610.40	104.94	End Shut-In(2)
121	1725.77	105.00	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	100 FEET OF GAS IN THE PIPE	0.00
30.00	Oil and Gas cut mud	0.42
0.00	5 %Gas 20%Oil 75%Mud	0.00
0.00	there w as a good show of free oil	0.00
0.00	betw een the tools	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

Darrah John Jay Jr.  
 P.O.Box 2786  
 Wichita, Kansas 67201  
 ATTN: Seth Evenson

**32-20s-13w Barton**  
**Gaunt 32 B # 1**  
 Job Ticket: 01187 **DST#: 3**  
 Test Start: 2017.09.11 @ 05:54:00

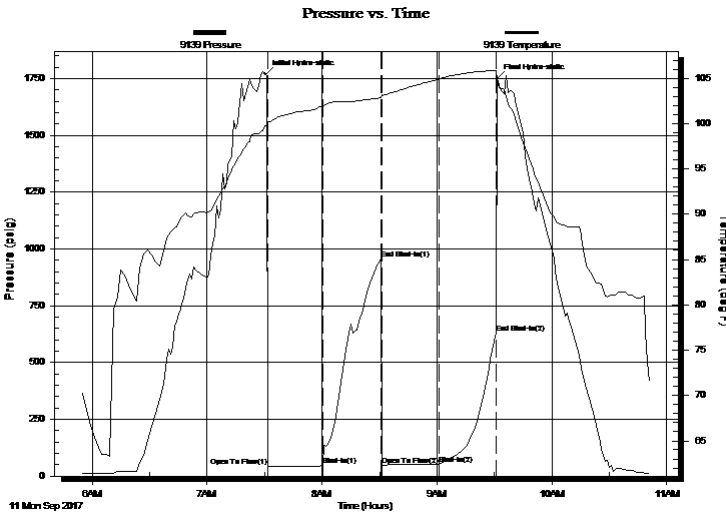
## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:31:00  
 Time Test Ended: 00:00:00  
 Interval: **3510.00 ft (KB) To 3540.00 ft (KB) (TVD)**  
 Total Depth: 3540.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 1  
 Reference Elevations: 1901.00 ft (KB)  
 1895.00 ft (CF)  
 KB to GR/CF: 6.00 ft

**Serial #: 9139 Inside**  
 Press@RunDepth: 628.15 psig @ 3535.00 ft (KB) Capacity: psig  
 Start Date: 2017.09.11 End Date: 2017.09.11 Last Calib.: 1899.12.30  
 Start Time: 05:54:00 End Time: 10:51:29 Time On Btm: 2017.09.11 @ 07:30:30  
 Time Off Btm: 2017.09.11 @ 09:31:30

**TEST COMMENT:** 1st Opening 30 Minutes weak building blow built to 2 inches into the water  
 1st Shut-In 30 Minutes no blow back  
 2nd opening 30 Minutes weak building blow built to 3 inches into the water  
 2nd shut-In 30 Minutes noblow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1768.88	99.82	Initial Hydro-static
1	41.67	100.21	Open To Flow (1)
30	45.58	101.96	Shut-In(1)
60	955.70	102.83	End Shut-In(1)
61	48.55	103.15	Open To Flow (2)
91	53.68	104.89	Shut-In(2)
121	628.15	105.86	End Shut-In(2)
121	1749.65	104.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	100 FEET OF GAS IN THE PIPE	0.00
30.00	Oil and Gas cut mud	0.42
0.00	5 %Gas 20%Oil 75%Mud	0.00
0.00	there w as a good show of free oil	0.00
0.00	betw een the tools	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Darrah John Jay Jr.

**32-20s-13w Barton**

P.O.Box 2786  
Wichita, Kansas 67201

**Gaunt 32 B # 1**

Job Ticket: 01187

**DST#: 3**

ATTN: Seth Evenson

Test Start: 2017.09.11 @ 05:54:00

## Tool Information

Drill Pipe:	Length: 3517.00 ft	Diameter: 3.80 inches	Volume: 49.33 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 34000.00 lb
			<u>Total Volume: 49.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 28000.00 lb
Depth to Top Packer:	3510.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	50.00 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			3495.00	
Hydraulic tool	5.00			3500.00	
Packer	5.00			3505.00	20.00 Bottom Of Top Packer
Packer	5.00		Fluid	3510.00	
Anchor	25.00			3535.00	
Recorder	0.00	9139	Inside	3535.00	
Recorder	0.00	91716	Outside	3535.00	
Bullnose	5.00			3540.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 50.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Darrah John Jay Jr.

**32-20s-13w Barton**

P.O.Box 2786  
Wichita, Kansas 67201

**Gaunt 32 B # 1**

Job Ticket: 01187

**DST#: 3**

ATTN: Seth Evenson

Test Start: 2017.09.11 @ 05:54:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	100 FEET OF GAS IN THE PIPE	0.000
30.00	Oil and Gas cut mud	0.421
0.00	5 %Gas 20%Oil 75%Mud	0.000
0.00	there w as a good show of free oil	0.000
0.00	betw een the tools	0.000

Total Length: 30.00 ft      Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

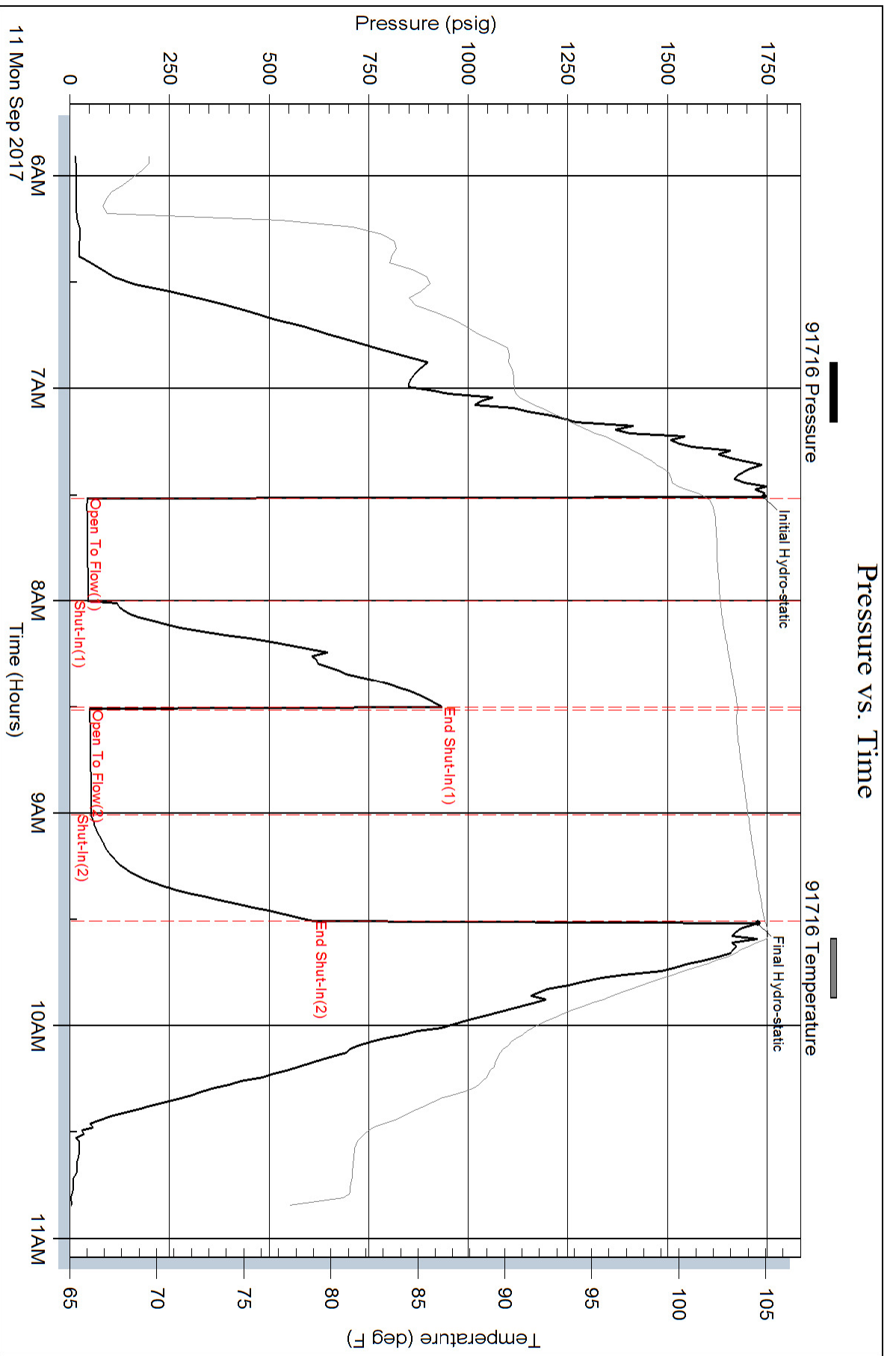
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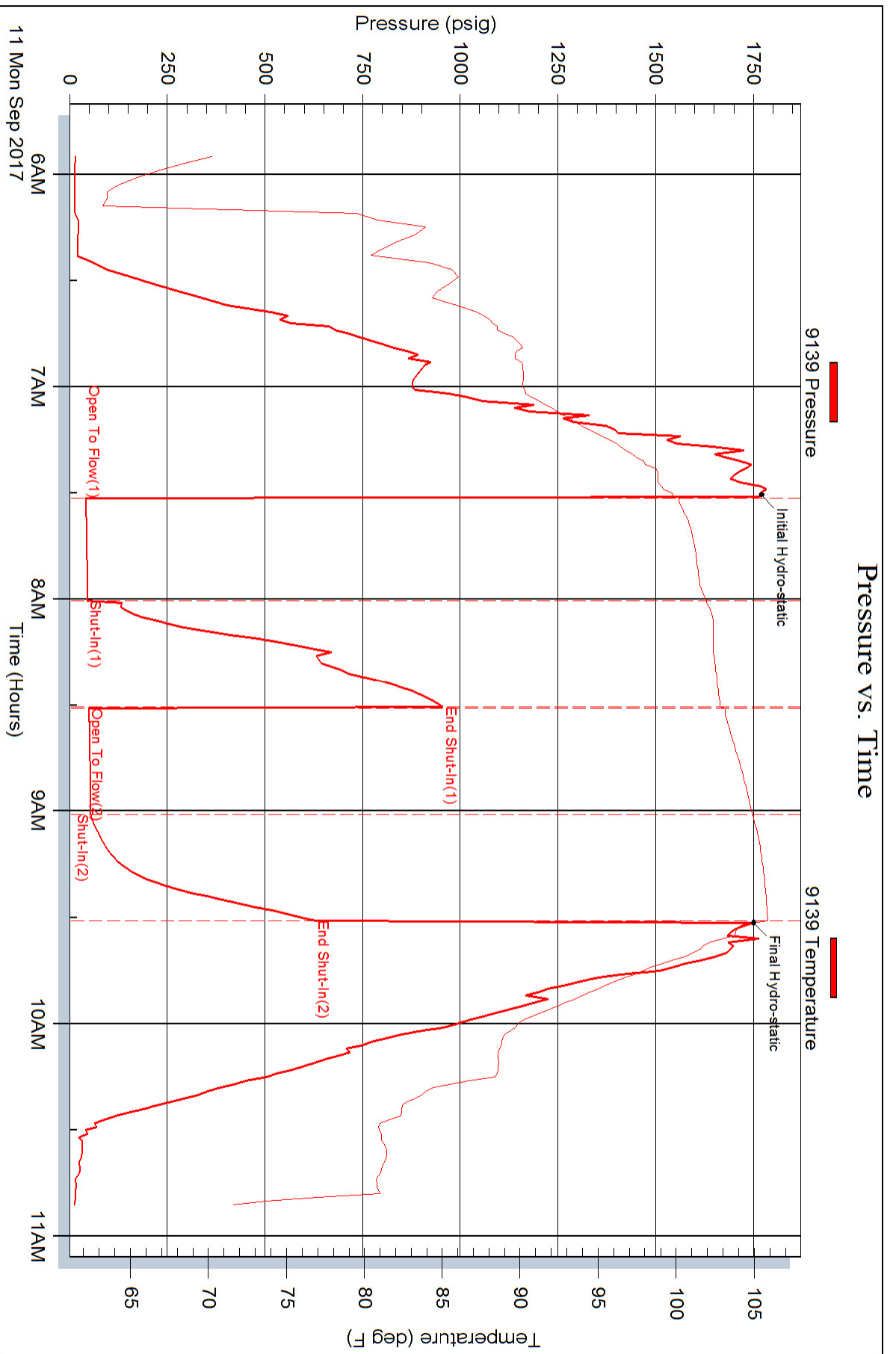
Laboratory Name:

Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **Darrah John Jay Jr.**

P.O.Box 2786  
Wichita, Kansas 67201

ATTN: Seth Evenson

**Gaunt 32 B # 1**

**32-20s-13w Barton**

Start Date: 2017.09.11 @ 12:00:00

End Date: 2017.09.11 @ 00:00:00

Job Ticket #: 01188                      DST #: 4

Eagle Testers  
1309 Patton Road    Great Bend, Kansas 67530  
620-791-7394

Printed: 2017.09.11 @ 18:01:46

Darrah John Jay Jr.  
32-20s-13w Barton  
Gaunt 32 B # 1  
DST # 4  
Kansas City  
2017.09.11



# DRILL STEM TEST REPORT

Darrah John Jay Jr.  
 P.O.Box 2786  
 Wichita, Kansas 67201  
 ATTN: Seth Evenson

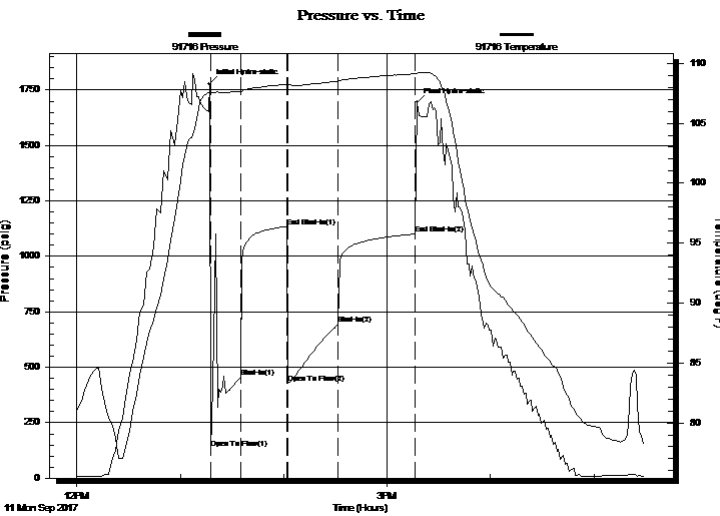
**32-20s-13w Barton**  
**Gaunt 32 B # 1**  
 Job Ticket: 01188 **DST#: 4**  
 Test Start: 2017.09.11 @ 12:00:00

## GENERAL INFORMATION:

Formation: **Kansas City**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Interval: **3473.00 ft (KB) To 3540.00 ft (KB) (TVD)**  
 Total Depth: 3540.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No:  
 Reference Elevations: 1901.00 ft (KB)  
 1895.00 ft (CF)  
 KB to GR/CF: 6.00 ft

**Serial #: 91716 Outside**  
 Press@RunDepth: 1100.71 psig @ 3534.77 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2017.09.11 End Date: 2017.09.11 Last Calib.: 2017.09.11  
 Start Time: 12:00:00 End Time: 17:29:30 Time On Btm: 2017.09.11 @ 13:17:00  
 Time Off Btm: 2017.09.11 @ 15:17:30

**TEST COMMENT:** 1st opening 15 minutes good blow built to the bottom of a 5 gallon bucket in 2 1/2 minutes  
 1st shut-in 30 minutes noblow back  
 2nd opening 30 minutes good blow built to the bottom of a 5 gallon bucket in 2 1/4 minutes  
 2nd shut-in 45 minutes slight blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1778.20	107.55	Initial Hydro-static
1	132.96	107.62	Open To Flow (1)
18	454.64	107.65	Shut-In(1)
45	1132.46	108.27	End Shut-In(1)
46	426.64	108.26	Open To Flow (2)
75	694.84	108.50	Shut-In(2)
120	1100.71	109.11	End Shut-In(2)
121	1693.70	109.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	5%Gas 15% Oil 30%Mud 50%Water	1.26
180.00	5%Gas 15%Oil 40%Mud 40%Water	2.52
180.00	15%Gas 15%Oil 20%Mud 50%Water	2.52
180.00	8%Gas 22%Oil 10%Mud 60%Water	2.52
180.00	12%Gas 12%Oil 6%Mud70%Water	2.52
180.00	5%Gas 10%Oil 3%Mud82%Water	2.52

## Gas Rates

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



# DRILL STEM TEST REPORT

Darrah John Jay Jr.  
 P.O.Box 2786  
 Wichita, Kansas 67201  
 ATTN: Seth Evenson

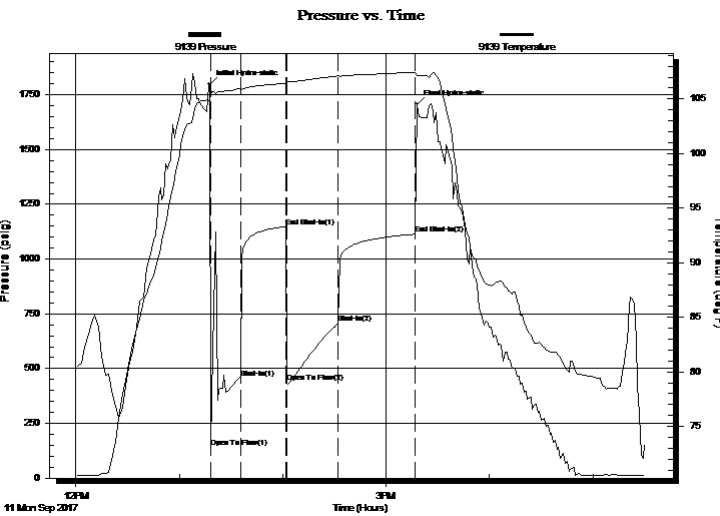
**32-20s-13w Barton**  
**Gaunt 32 B # 1**  
 Job Ticket: 01188 **DST#: 4**  
 Test Start: 2017.09.11 @ 12:00:00

## GENERAL INFORMATION:

Formation: **Kansas City**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Interval: **3473.00 ft (KB) To 3540.00 ft (KB) (TVD)**  
 Total Depth: 3540.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No:  
 Reference Elevations: 1901.00 ft (KB)  
 1895.00 ft (CF)  
 KB to GR/CF: 6.00 ft

**Serial #: 9139 Inside**  
 Press@RunDepth: 1113.65 psig @ 3534.77 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2017.09.11 End Date: 2017.09.11 Last Calib.: 2017.09.11  
 Start Time: 12:00:00 End Time: 17:30:00 Time On Btm: 2017.09.11 @ 13:17:30  
 Time Off Btm: 2017.09.11 @ 15:18:00

**TEST COMMENT:** 1st opening 15 minutes good blow built to the bottom of a 5 gallon bucket in 2 1/2 minutes  
 1st shut-in 30 minutes noblow back  
 2nd opening 30 minutes good blow built to the bottom of a 5 gallon bucket in 2 1/4 minutes  
 2nd shut-in 45 minutes slight blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1797.00	104.93	Initial Hydro-static
1	140.16	105.39	Open To Flow (1)
18	458.46	105.97	Shut-In(1)
45	1148.26	106.45	End Shut-In(1)
45	438.01	106.56	Open To Flow (2)
75	706.99	107.11	Shut-In(2)
120	1113.65	107.44	End Shut-In(2)
121	1706.21	107.19	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	5%Gas 15% Oil 30%Mud 50%Water	1.26
180.00	5%Gas 15%Oil 40%Mud 40%Water	2.52
180.00	15%Gas 15%Oil 20%Mud 50%Water	2.52
180.00	8%Gas 22%Oil 10%Mud 60%Water	2.52
180.00	12%Gas 12%Oil 6%Mud70%Water	2.52
180.00	5%Gas 10%Oil 3%Mud82%Water	2.52

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Darrah John Jay Jr.

**32-20s-13w Barton**

P.O.Box 2786  
Wichita, Kansas 67201

**Gaunt 32 B # 1**

Job Ticket: 01188

**DST#: 4**

ATTN: Seth Evenson

Test Start: 2017.09.11 @ 12:00:00

## Tool Information

Drill Pipe:	Length: 3483.00 ft	Diameter: 3.80 inches	Volume: 48.86 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	36000.00 lb
			<u>Total Volume: 48.86 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	28000.00 lb
Depth to Top Packer:	3473.00 ft			Final	30000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	66.77 ft				
Tool Length:	86.77 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			3458.00	
Hydraulic tool	5.00			3463.00	
Packer	5.00			3468.00	20.00 Bottom Of Top Packer
Packer	5.00		Fluid	3473.00	
Anchor	5.00			3478.00	
Change Over Sub	0.75			3478.75	
Drill Pipe	31.27			3510.02	
Change Over Sub	0.75		Inside	3510.77	
Anchor	24.00			3534.77	
Recorder	0.00	9139	Inside	3534.77	
Recorder	0.00	91716	Outside	3534.77	
Bullnose	5.00			3539.77	66.77 Bottom Packers & Anchor

**Total Tool Length: 86.77**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Darrah John Jay Jr.

**32-20s-13w Barton**

P.O.Box 2786  
Wichita, Kansas 67201

**Gaunt 32 B # 1**

Job Ticket: 01188

**DST#: 4**

ATTN: Seth Evenson

Test Start: 2017.09.11 @ 12:00:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 53.00 sec/qt  
Water Loss: in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: ppm  
Filter Cake: inches

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

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	5%Gas 15% Oil 30%Mud 50%Water	1.262
180.00	5%Gas 15%Oil 40%MUd 40%Water	2.525
180.00	15%Gas 15%Oil 20%Mud 50%Water	2.525
180.00	8%Gas 22%Oil 10%Mud 60%Water	2.525
180.00	12%Gas 12%Oil 6%Mud70%Water	2.525
180.00	5%Gas 10%Oil 3%Mud82%Water	2.525
180.00	10%Oil 3%Mud 87%Water	2.525
120.00	1%Oil 10%Mud 89%Water	1.683
0.00	250 gas in the pipe	0.000
0.00	Chlorides 58000	0.000

Total Length: 1290.00 ft      Total Volume: 18.095 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

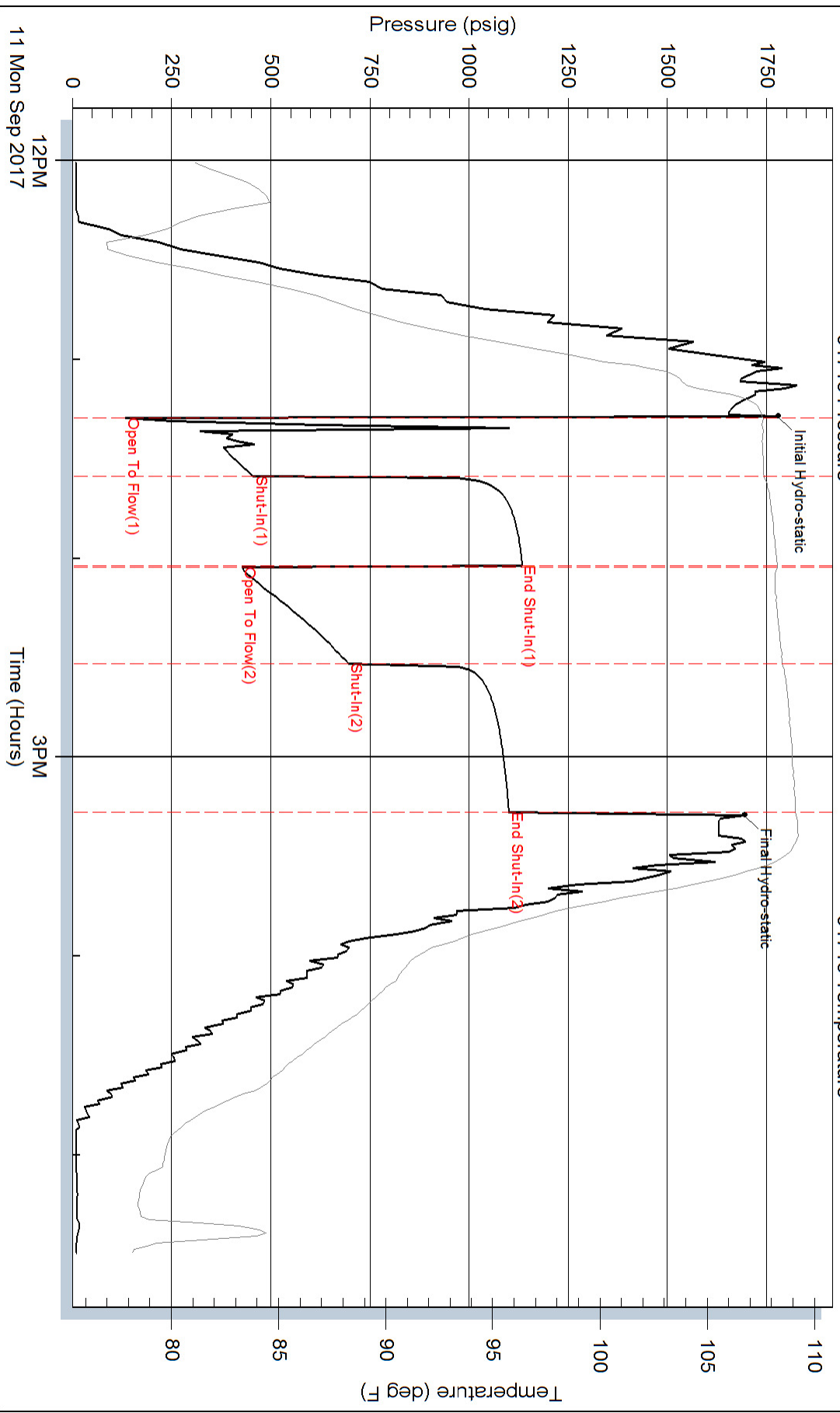
Serial #:

Laboratory Name:

Laboratory Location:

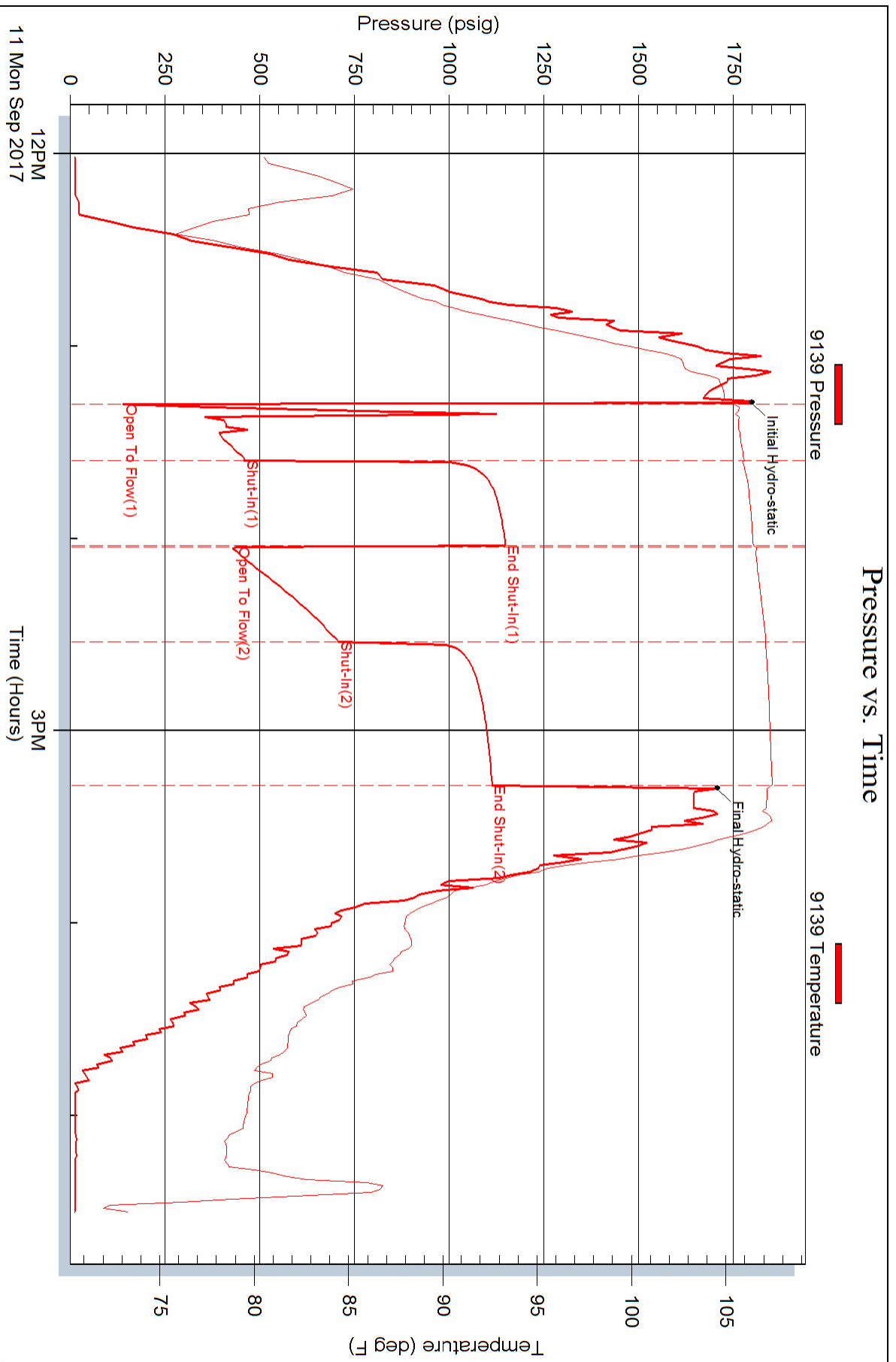
Recovery Comments:

### Pressure vs. Time





### Pressure vs. Time





# DUAL COMP POROSITY LOG

Company DARRAH OIL  
 Well GAUNT 32B NO.1  
 Field HISS SOUTHEAST  
 County BARTON  
 State KANSAS

Company DARRAH OIL  
 Well GAUNT 32B NO.1  
 Field HISS SOUTHEAST  
 County BARTON State KANSAS

Location: API #: 15-009-26179-00-00  
 1635' FSL & 1988' FEL  
 SEC 32 TWP 20S RGE 13W  
 Permanent Datum GROUND LEVEL Elevation 1895'  
 Log Measured From KELLY BUSHING  
 Drilling Measured From KELLY BUSHING  
 Other Services  
 DIL  
 MEL  
 Elevation  
 K.B. 1901'  
 D.F. N/A  
 G.L. 1895'

Date	9/11/2017
Run Number	ONE
Type Log	CNL/CDL
Depth Driller	3540'
Depth Logger	3436'
Bottom Logged Interval	3493'
Top Logged Interval	2700'
Type Fluid In Hole	CHEMICAL
Salinity, PPM CL	N/A
Density	8.5
Level	FULL
Max. Rec. Temp. F	111 DEG/F
Operating Rig Time	2 HOURS
Equipment -- Location	108 HAYS
Recorded By	J. HENRICKSON
Witnessed By	SETH EVENSON

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0	330'	8.625"	23#	0	330'
TWO	7.875"	330'	TD				

<<< 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.

GREAT BEND KANSAS  
 SOUTH TO 60 RD, 1 WEST, 3/4 SOUTH, WEST INTO

Log Measured From: KELLY BUSHING      6 Ft. Above Permanent Datum

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

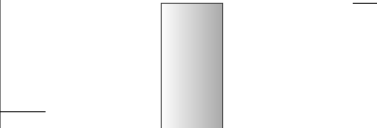
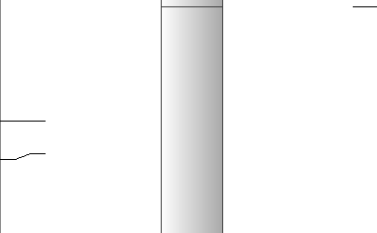
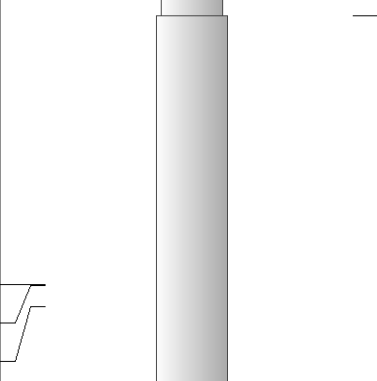
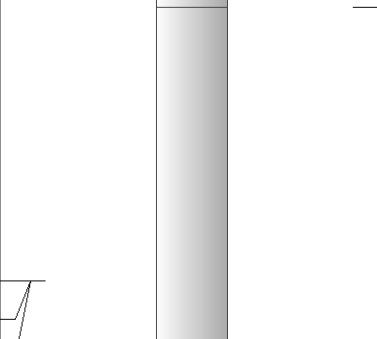
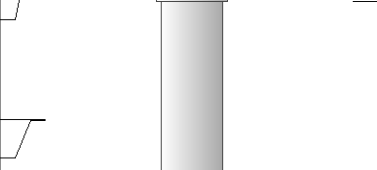
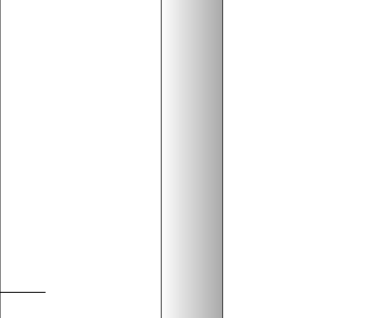
<b>Your Pioneer Energy Services Crew</b> Engineer: J. HENRICKSON Operator: Operator: Operator:	<b>This Log Record Was Witnessed By</b> Primary Witness: SETH EVENSON Secondary Witness: Secondary Witness: Secondary Witness:
--	--

# Log Variables

DatabaseC:\ProgramData\Warrior\Data\darrah\_gaunt\_32b\_1.db  
Dataset field/well/stackml/pass3.1/\_vars\_

## Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	111	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	-140	71	Off	3536

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (tk10-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (168-986)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58	4.00	65.00
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: darrah\_gaunt\_32b\_1.db: field/well/stackml/pass3.1  
 Total length: 43.08 ft  
 Total weight: 685.00 lb  
 O.D.: 4.00 in

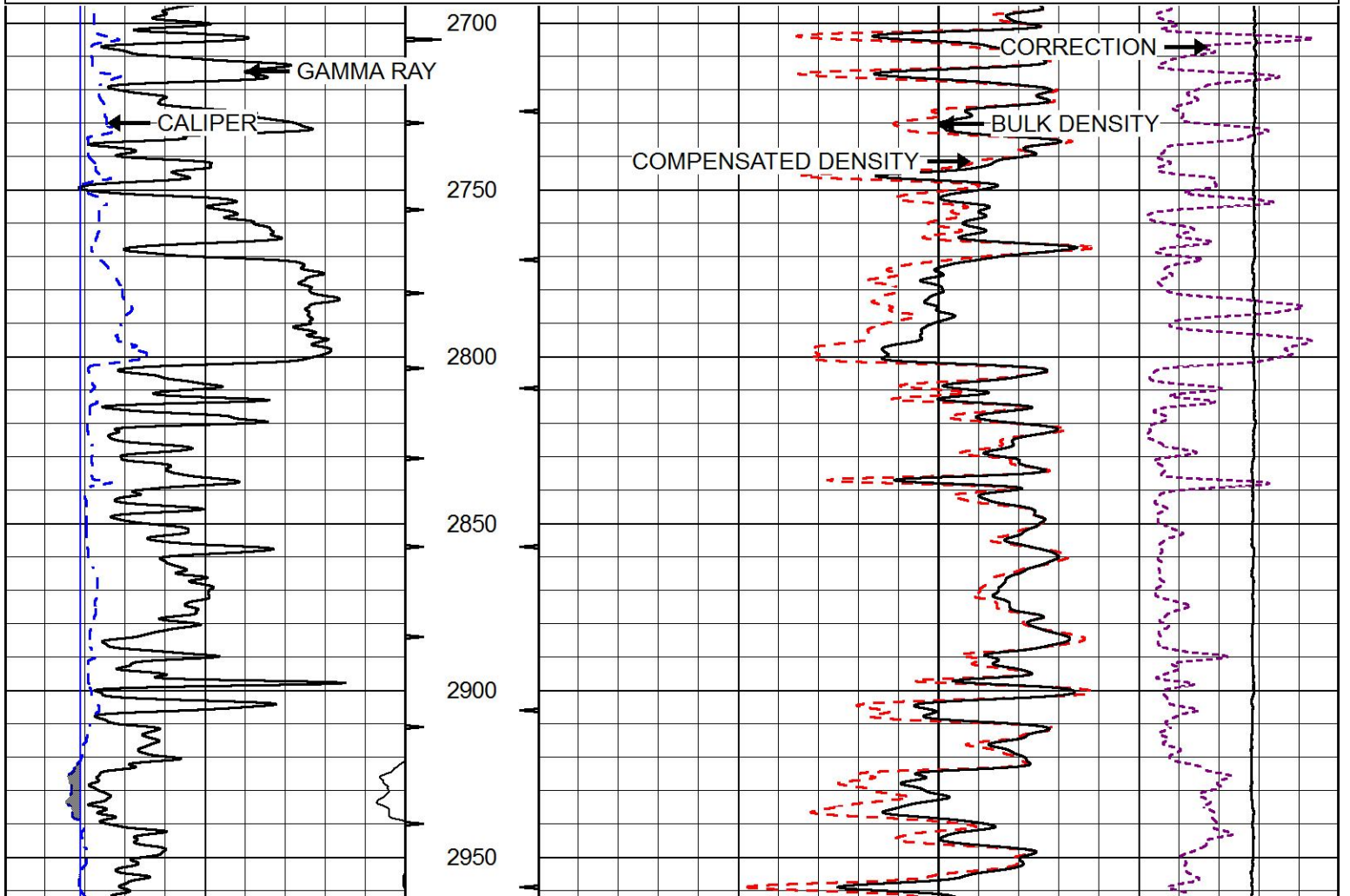


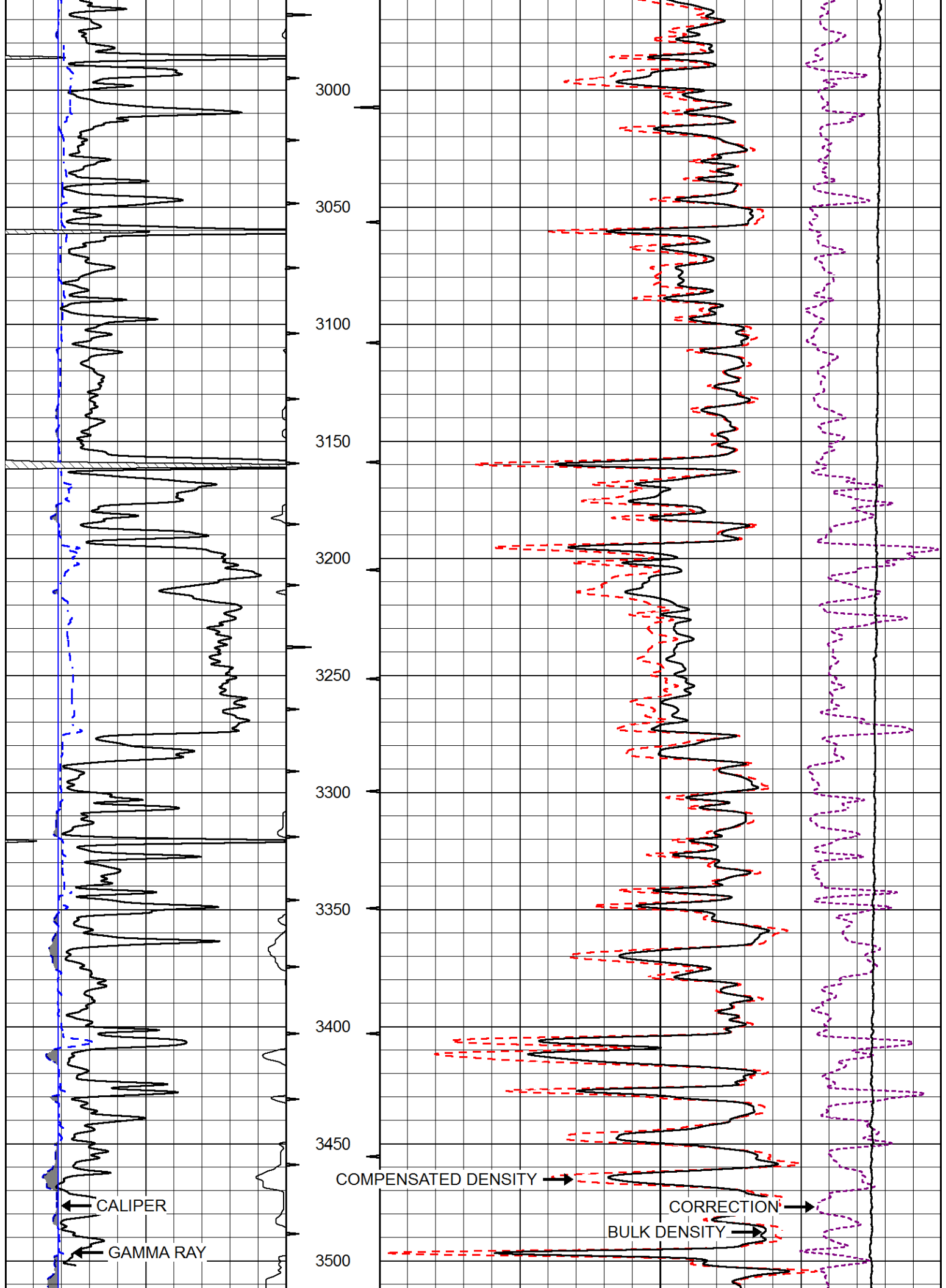
# MAIN PASS

Database File darrah\_gaunt\_32b\_1.db  
 Dataset Pathname stackml/pass3.1  
 Presentation Format cdl  
 Dataset Creation Mon Sep 11 20:59:24 2017  
 Charted by Depth in Feet scaled 1:600

0	GAMMA RAY (GAPI)	150
6	CALIPER (in)	16

30	COMPENSATED DENSITY (pu)	-10
2	BULK DENSITY (g/cc)	3
15000	LINE TENSION (lb)	0
-0.25	CORRECTION (g/cc)	0.25





0	GAMMA RAY (GAPI)	150
6	CALIPER (in)	16

30	COMPENSATED DENSITY (pu)	-10
2	BULK DENSITY (g/cc)	3
15000	LINE TENSION (lb)	0
	-0.25 CORRECTION (g/cc)	0.25

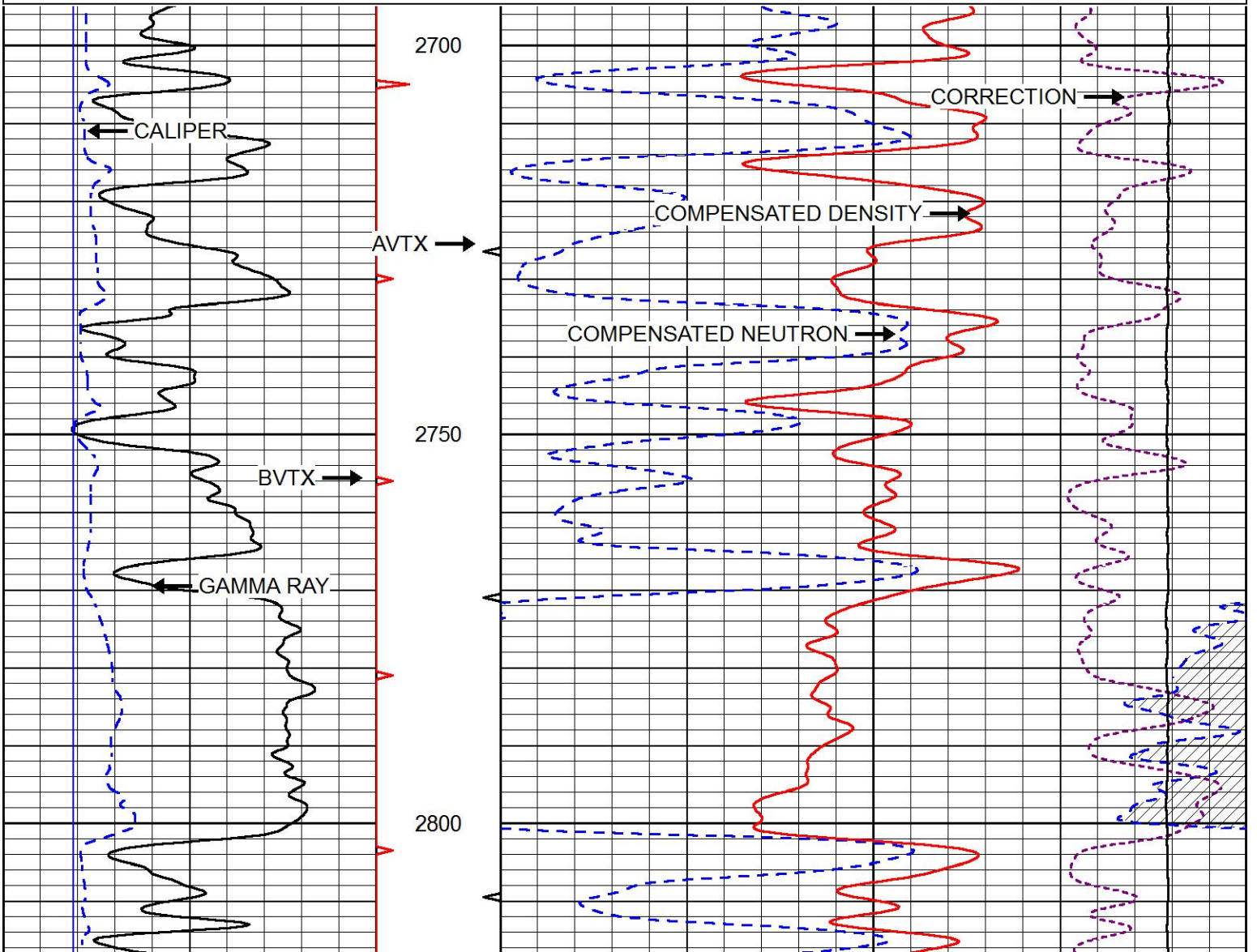


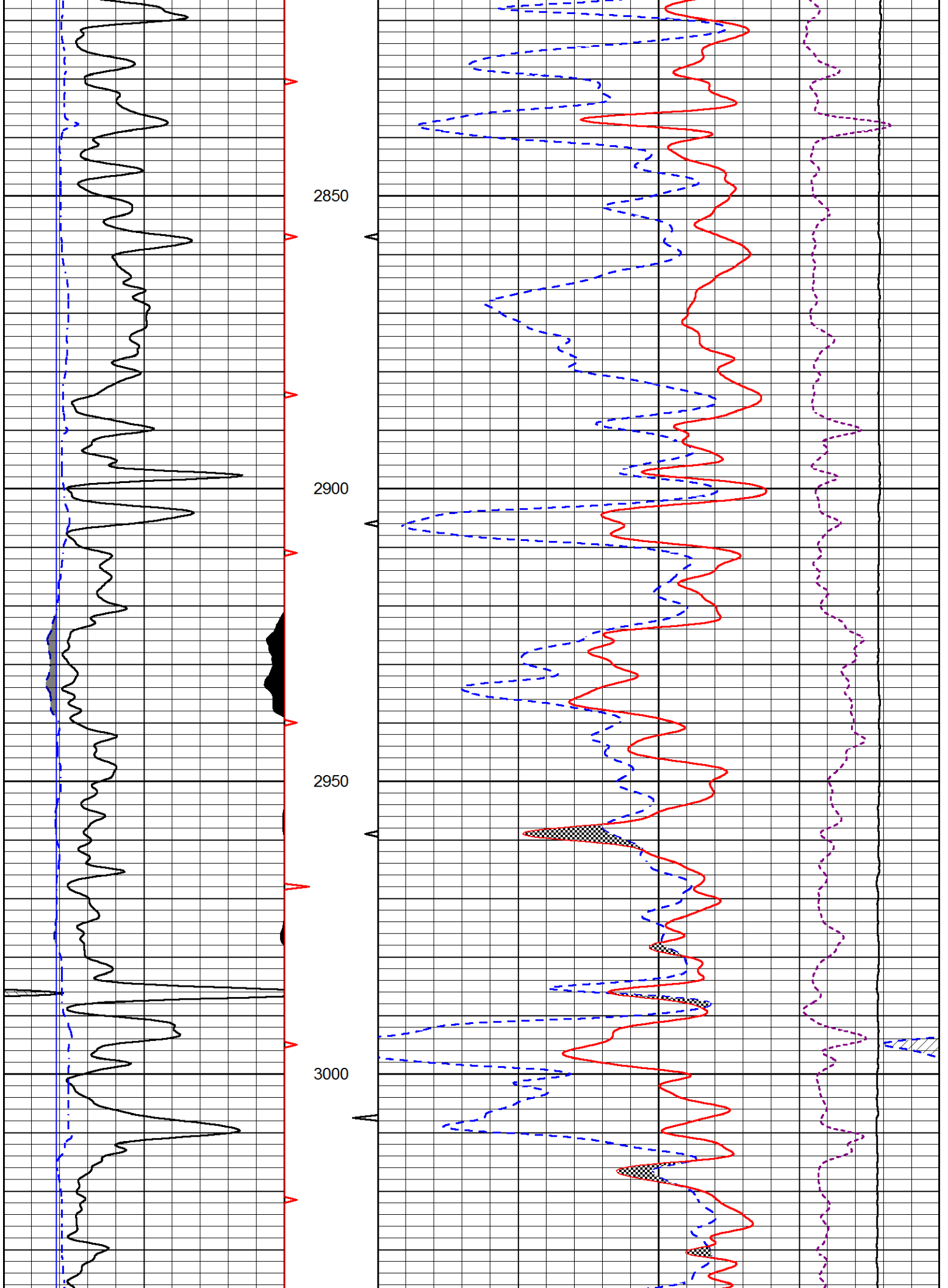
# MAIN PASS

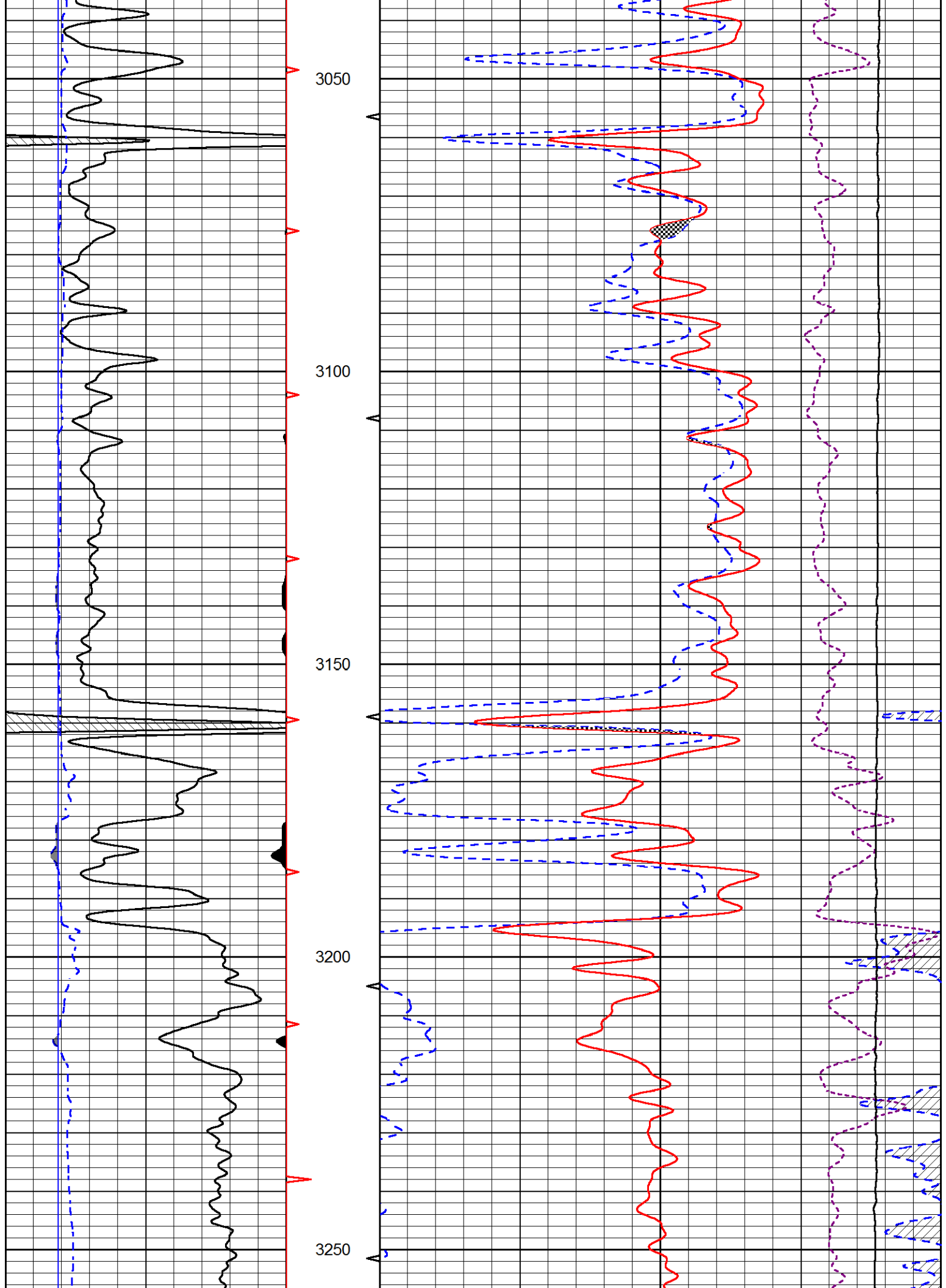
Database File      darrah\_gaunt\_32b\_1.db  
 Dataset Pathname    stackml/pass3.1  
 Presentation Format    cndlspec  
 Dataset Creation      Mon Sep 11 20:59:24 2017  
 Charted by            Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	dcal (in)	16
6	BIT SIZE (in)	16

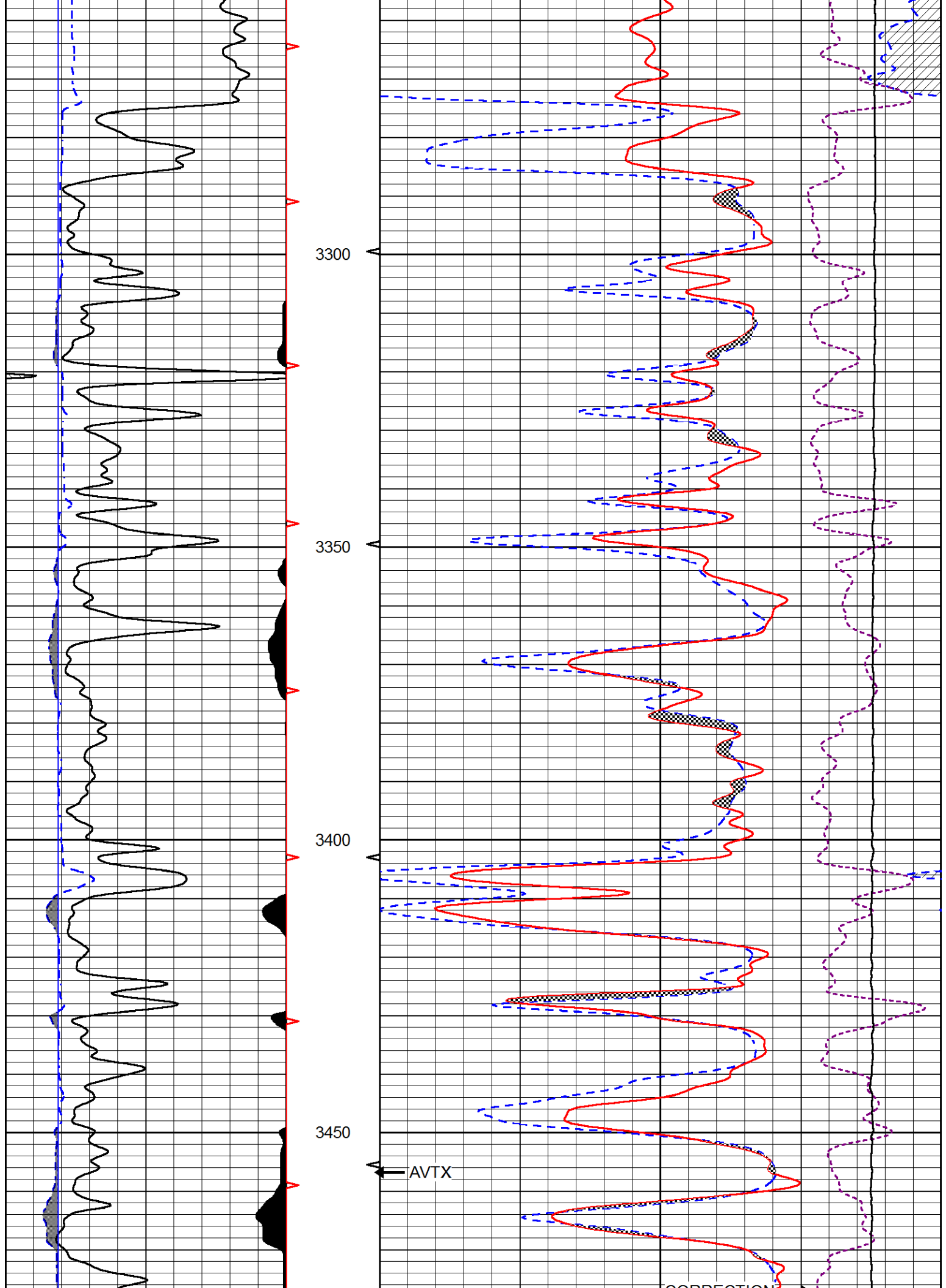
30	COMPENSATED NEUTRON (pu)	-10
30	COMPENSATED DENSITY (2.71 ma) (pu)	-10
15000	LINE TENSION (lb)	0
	-0.25 CORRECTION (g/cc)	0.25

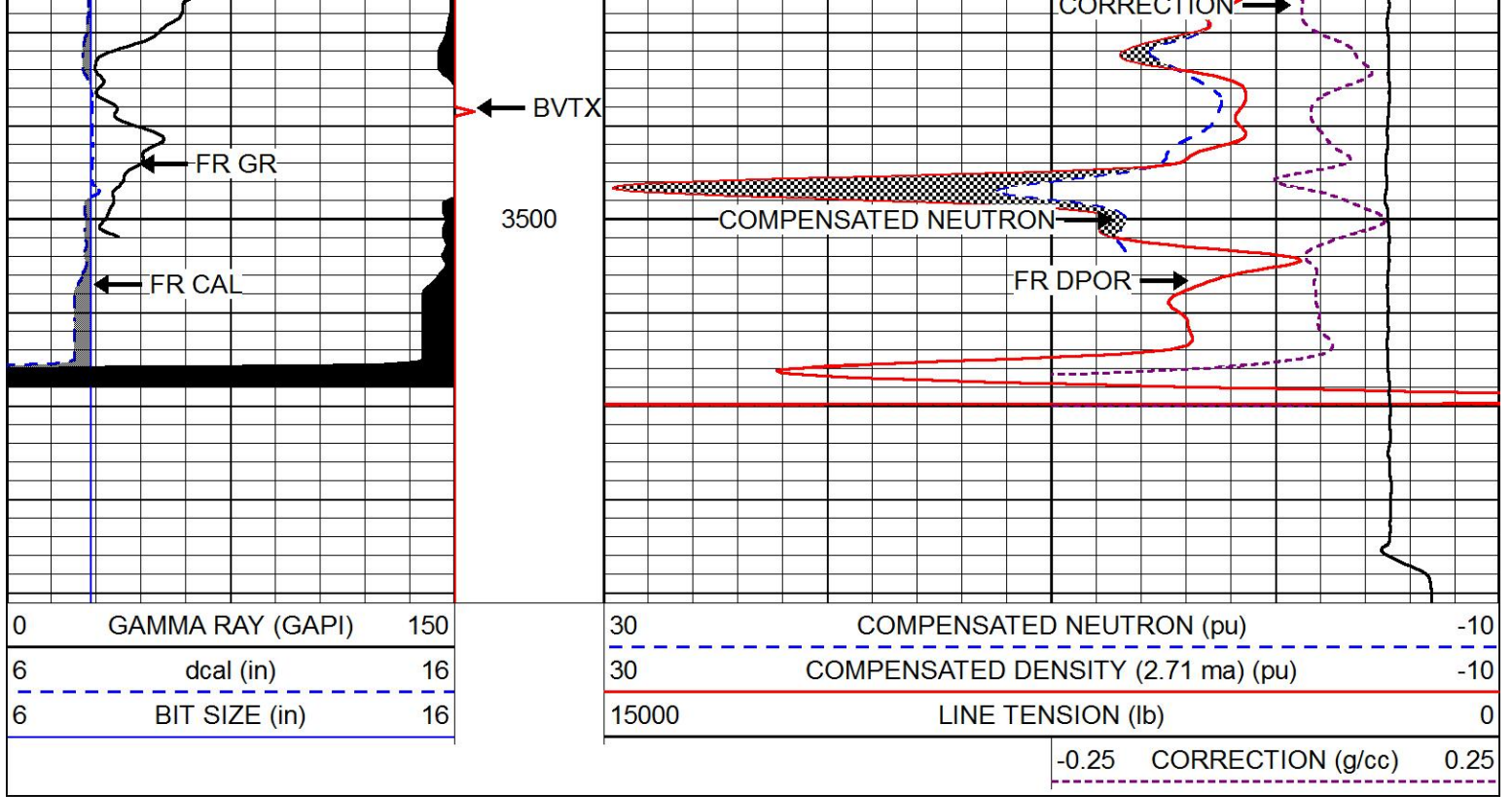








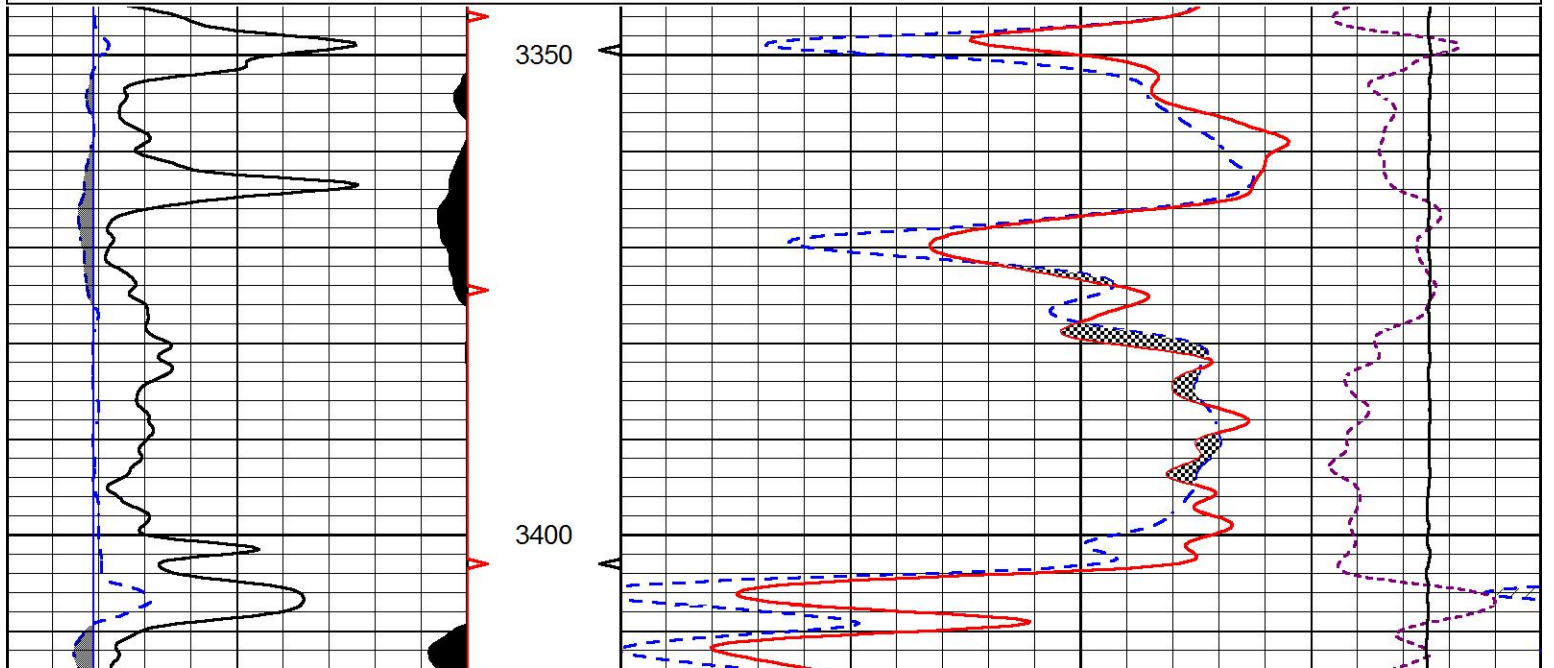


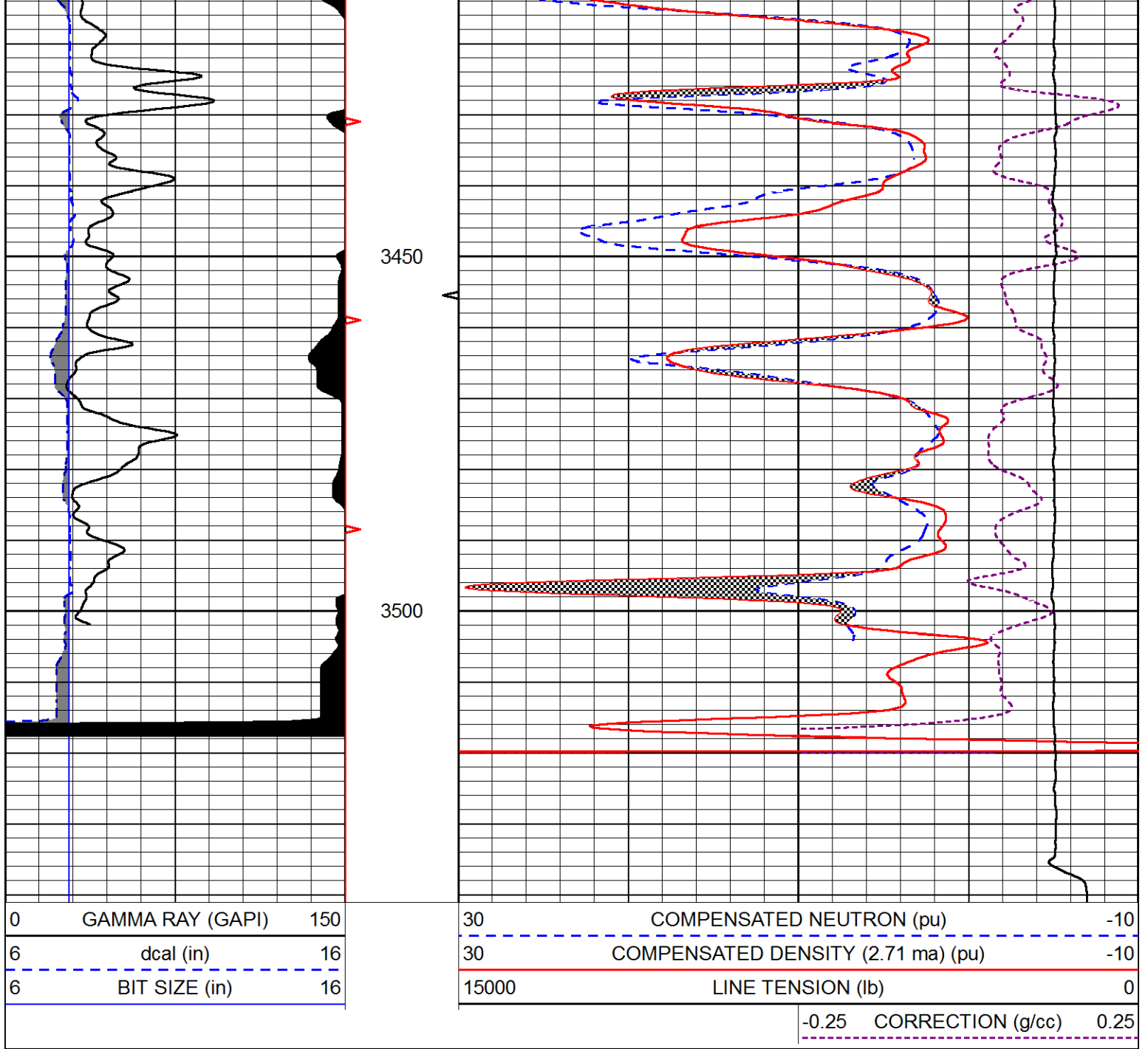


# REPEAT SECTION

Database File      darrah\_gaunt\_32b\_1.db  
 Dataset Pathname    stackml/pass2.1  
 Presentation Format    cndlspec  
 Dataset Creation      Mon Sep 11 20:48:53 2017  
 Charted by            Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	30	COMPENSATED NEUTRON (pu)	-10
6	dcal (in)	16	30	COMPENSATED DENSITY (2.71 ma) (pu)	-10
6	BIT SIZE (in)	16	15000	LINE TENSION (lb)	0
				-0.25 CORRECTION (g/cc)	0.25





### Calibration Report

Database File darrah\_gaunt\_32b\_1.db  
 Dataset Pathname stackml/pass3.1  
 Dataset Creation Mon Sep 11 20:59:24 2017

### Dual Induction Calibration Report

Serial-Model: 1987-M&W  
 Calibration Performed: Tue Apr 11 16:07:38 2017

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop	mmho/m	Gain	Offset
Deep	178.615	710.235	0.000	255.800	mmho/m	0.530	-36.500
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.440	-110.500

### Microlog Calibration Report

Serial-Model:  
Performed:

PSI-02-PSI STKBL ML  
Fri Jun 23 00:25:19 2017

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0031	0.0043	0.0000	10.0000	Ohm-m	28000.0000	0.0000
Inverse	0.0000	0.0013	0.0000	10.0000	Ohm-m	30000.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1560	-131.2500

Compensated Density Calibration Report

Serial-Model: 168-986-M&W  
Source / Verifier: /  
Master Calibration Performed: Tue Apr 11 16:07:47 2017

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4691.86	4818.19	cps
Aluminum	2.675	g/cc	859.57	3020.22	cps
Spine Angle = 74.61			Density/Spine Ratio = 0.523		
	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 16:08:01 2017

Calibrator Value: 1000.0 GAPI

Background Reading: 0.0 cps  
Calibrator Reading: 6.2 cps

Sensitivity: 0.5200 GAPI/cps



**PIONEER**

Company DARRAH OIL  
Well GAUNT 32B NO.1  
Field HISS SOUTHEAST  
County BARTON





# DUAL INDUCTION LOG

Company DARRAH OIL  
 Well GAUNT 32B NO.1  
 Field HISS SOUTHEAST  
 County BARTON  
 State KANSAS

Company DARRAH OIL  
 Well GAUNT 32B NO.1  
 Field HISS SOUTHEAST  
 County BARTON State KANSAS

Location: API #: 15-009-26179-00-00  
 1635' FSL & 1988' FEL  
 SEC 32 TWP 20S RGE 13W  
 Permanent Datum GROUND LEVEL Elevation 1895'  
 Log Measured From KELLY BUSHING  
 Drilling Measured From KELLY BUSHING  
 Other Services  
 CNL/CDL  
 MEL  
 Elevation  
 K.B. 1901'  
 D.F. N/A  
 G.L. 1895'

Date	9/11/2017
Run Number	ONE
Depth Driller	3540'
Depth Logger	3536'
Bottom Logged Interval	3535'
Top Log Interval	300'
Casing Driller	8.625" @ 330'
Casing Logger	328'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	N/A
Density / Viscosity	8.5 53
pH / Fluid Loss	N/A N/A
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.65 @ 70
Rmt @ Meas. Temp	.49 @ 70
Rmc @ Meas. Temp	.88 @ 70
Source of Rmf / Rmc	CHARTS
Rm @ BHT	.41 @ 111
Operating Rig Time	2 HOURS
Max Rec. Temp. F	111 DEGF
Equipment Number	108
Location	HAYS
Recorded By	J. HENRICKSON
Witnessed By	SETH EVENSON

<<< 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.  
 GREAT BEND KANSAS  
 SOUTH TO 60 RD, 1 WEST, 3/4 SOUTH, WEST INTO

Log Measured From: KELLY BUSHING 6 Ft. Above Permanent Datum

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

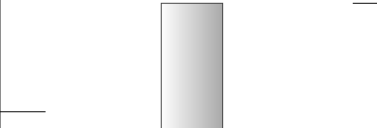
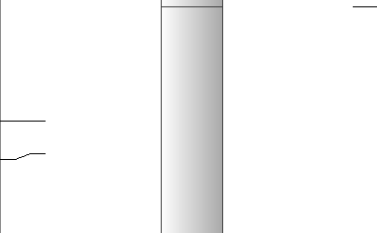
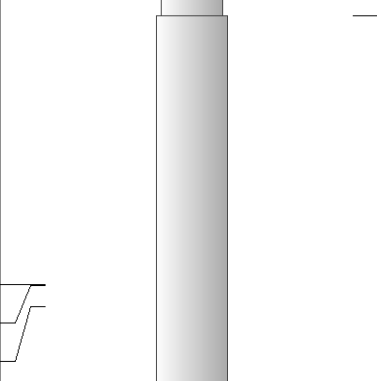
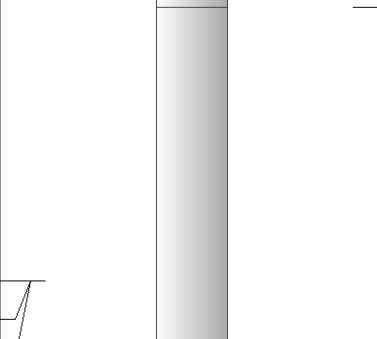
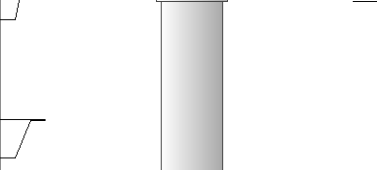
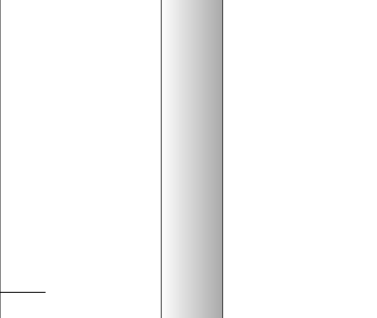
Your Pioneer Energy Services Crew Engineer: J. HENRICKSON Operator: Operator: Operator:	This Log Record Was Witnessed By Primary Witness: SETH EVENSON Secondary Witness: Secondary Witness: Secondary Witness:
---	---

# Log Variables

DatabaseC:\ProgramData\Warrior\Data\darrah\_gaunt\_32b\_1.db  
Dataset field/well/stackml/pass3.1/\_vars\_

## Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	111	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	-140	71	Off	3536

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (tk10-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (168-986)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58	4.00	65.00
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

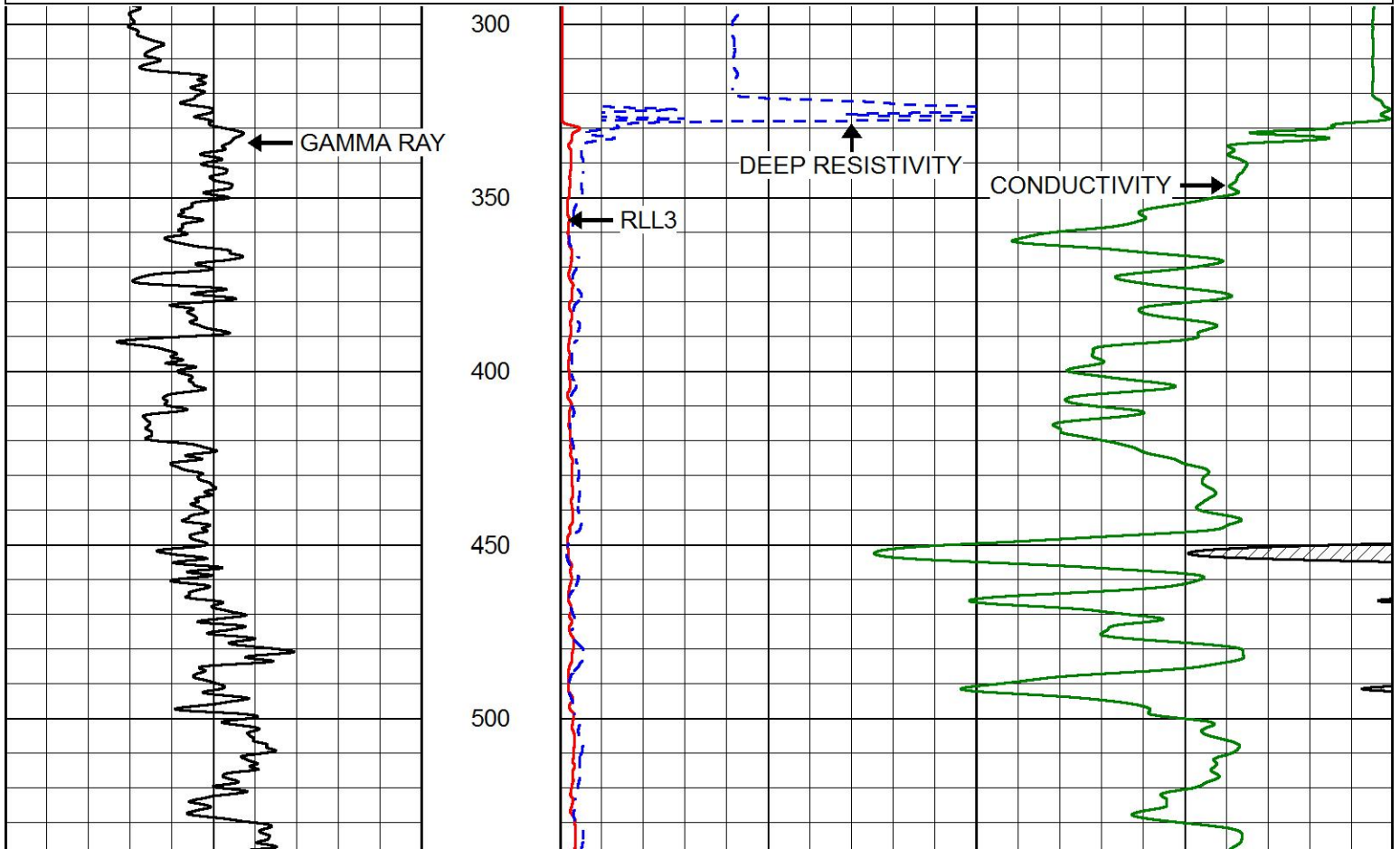
Dataset: darrah\_gaunt\_32b\_1.db: field/well/stackml/pass3.1  
 Total length: 43.08 ft  
 Total weight: 685.00 lb  
 O.D.: 4.00 in



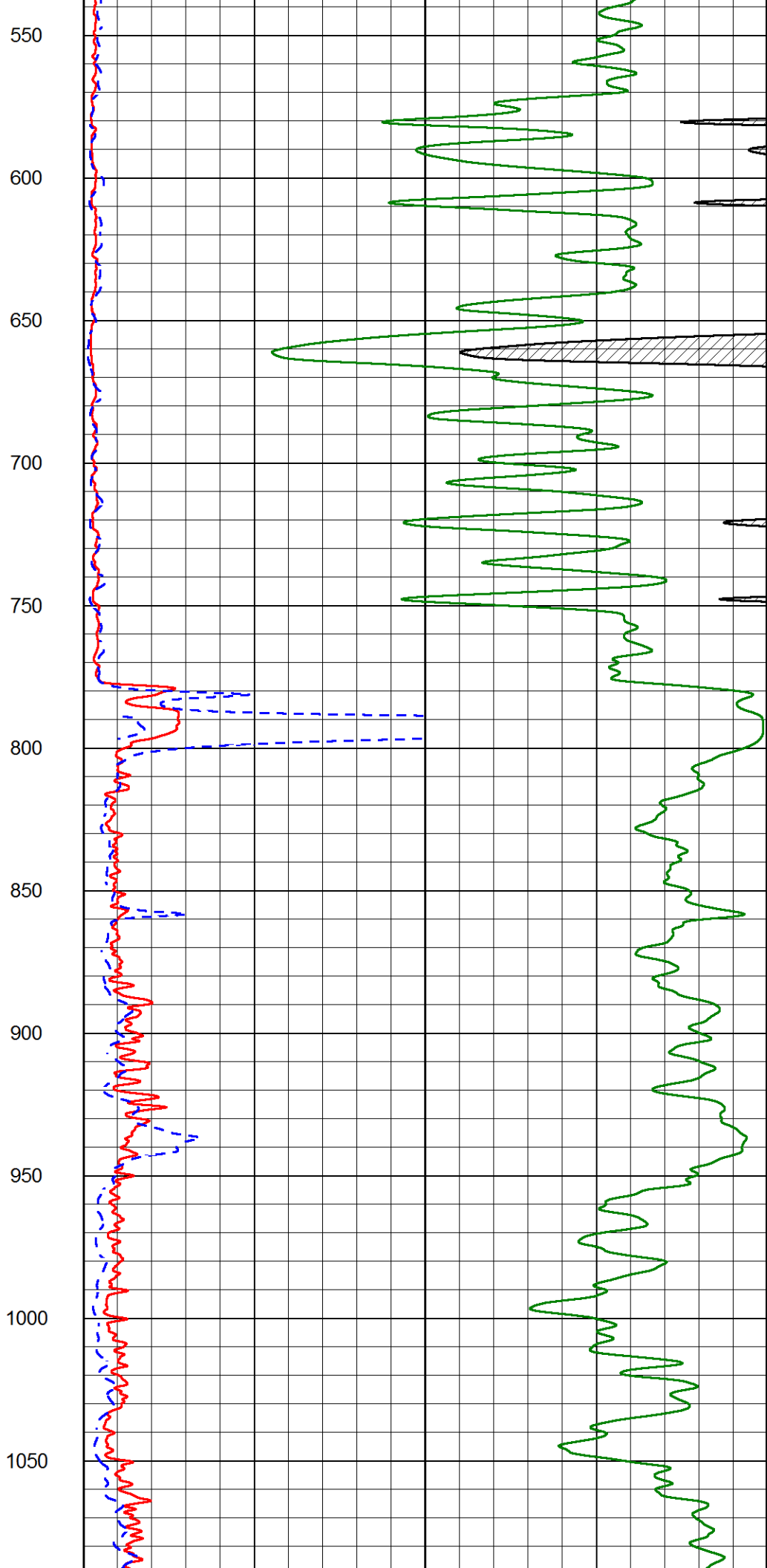
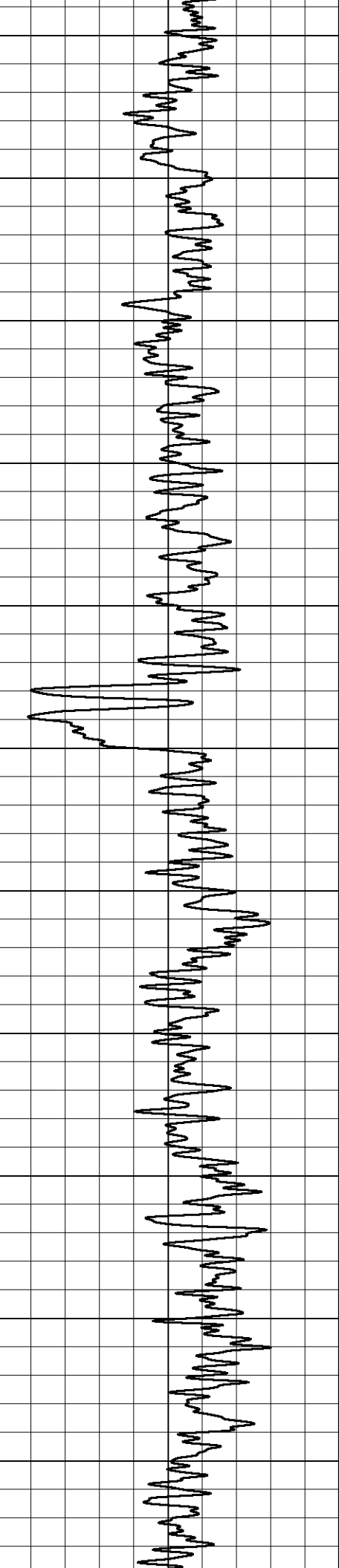
# MAIN PASS

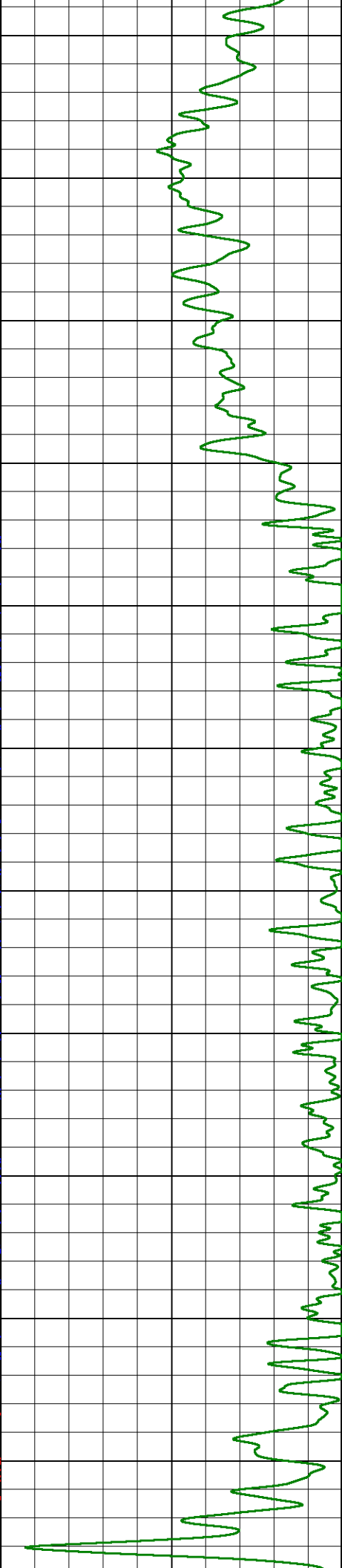
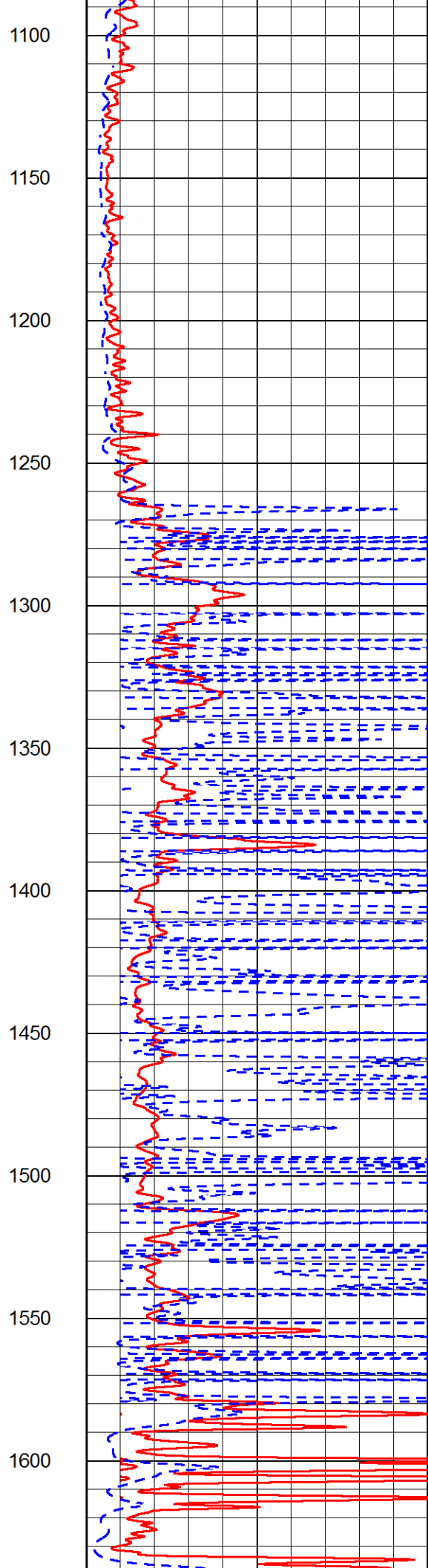
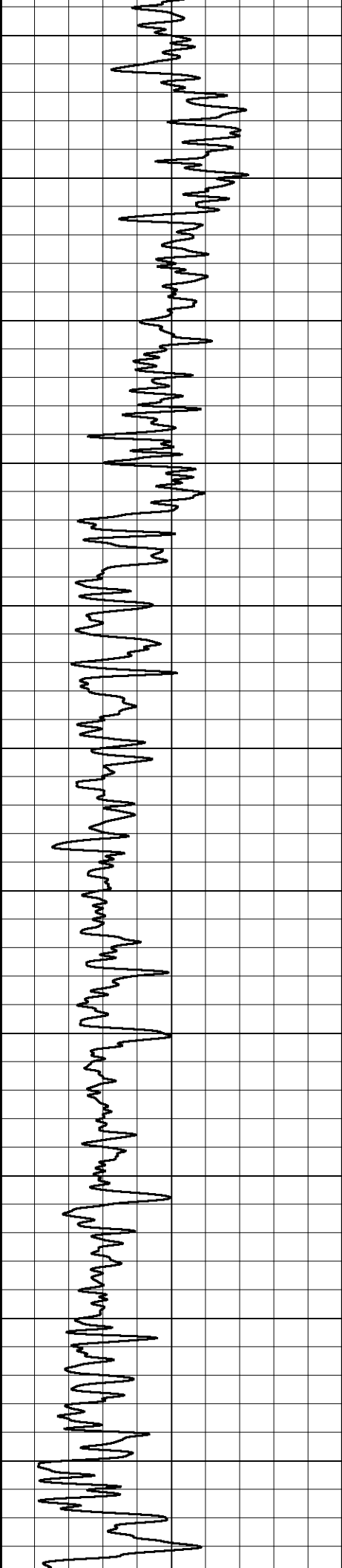
Database File darrah\_gaunt\_32b\_1.db  
 Dataset Pathname stackml/pass3.1  
 Presentation Format dil2in  
 Dataset Creation Mon Sep 11 20:59:24 2017  
 Charted by Depth in Feet scaled 1:600

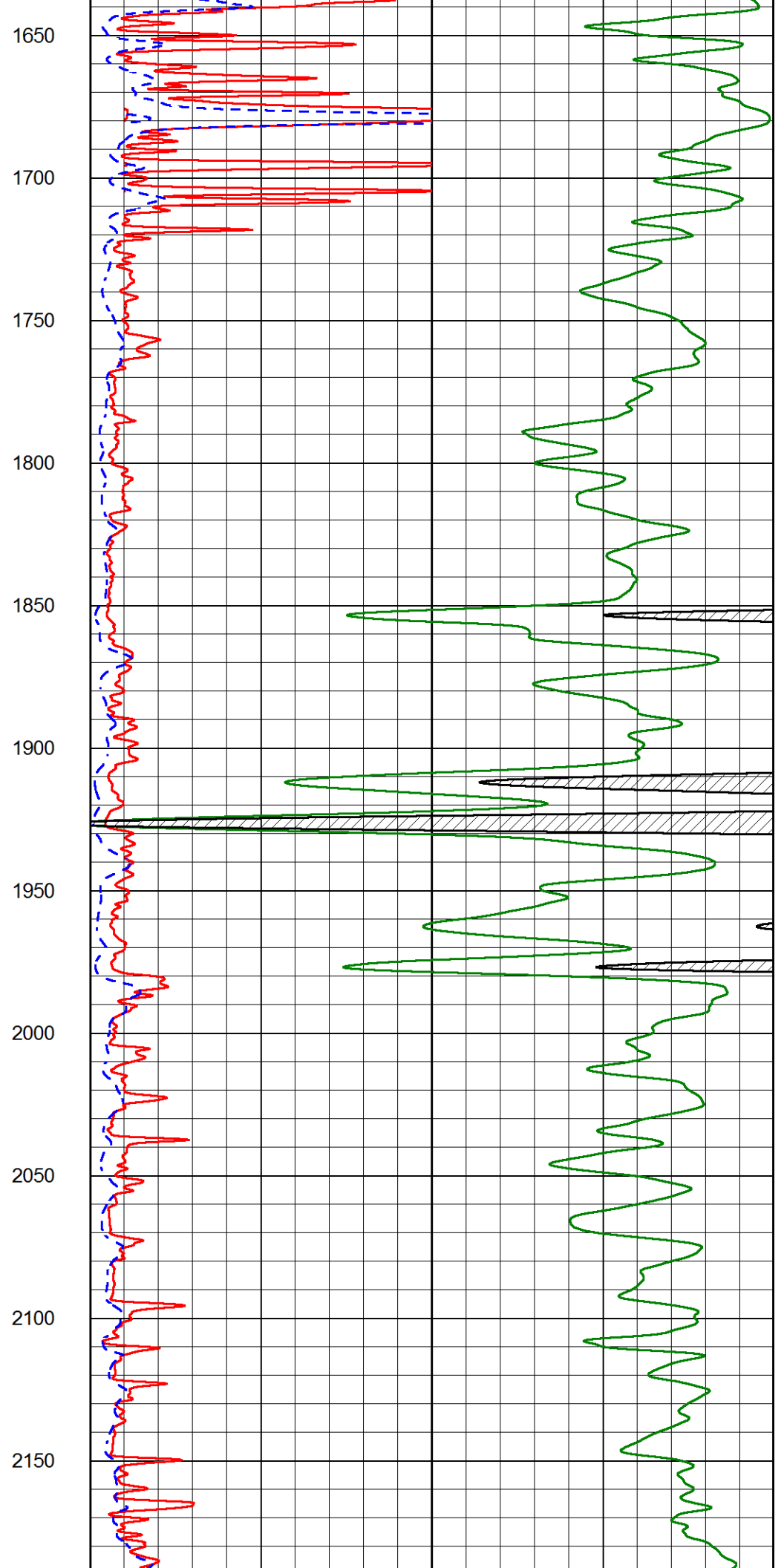
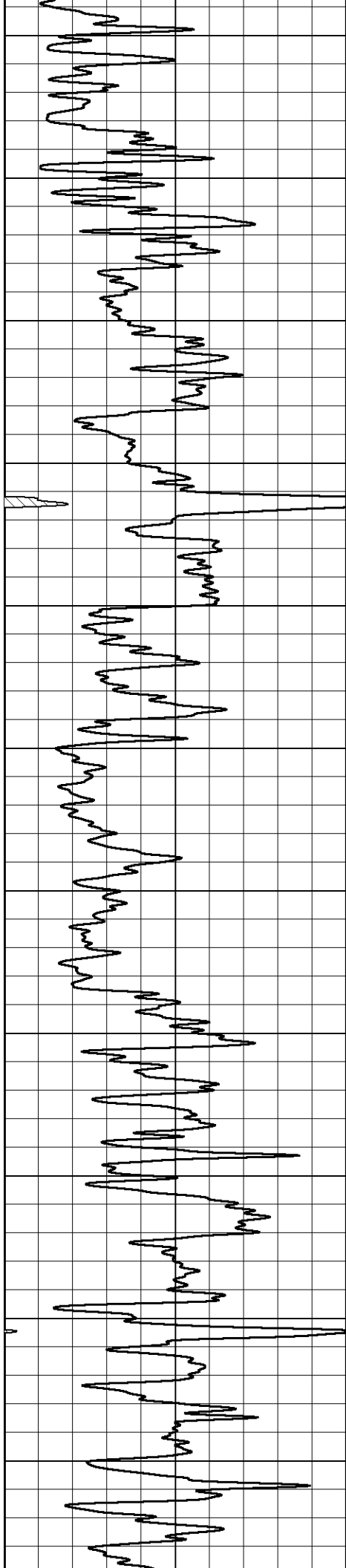
0	GAMMA RAY (GAPI)	150	2000	CONDUCTIVITY (mmho/m)	0
			0	RLL3 (Ohm-m)	50
			0	DEEP RESISTIVITY (Ohm-m)	50
			50	RLL3 (Ohm-m)	500
				DEEP RESISTIVITY	
			50	(Ohm-m)	500

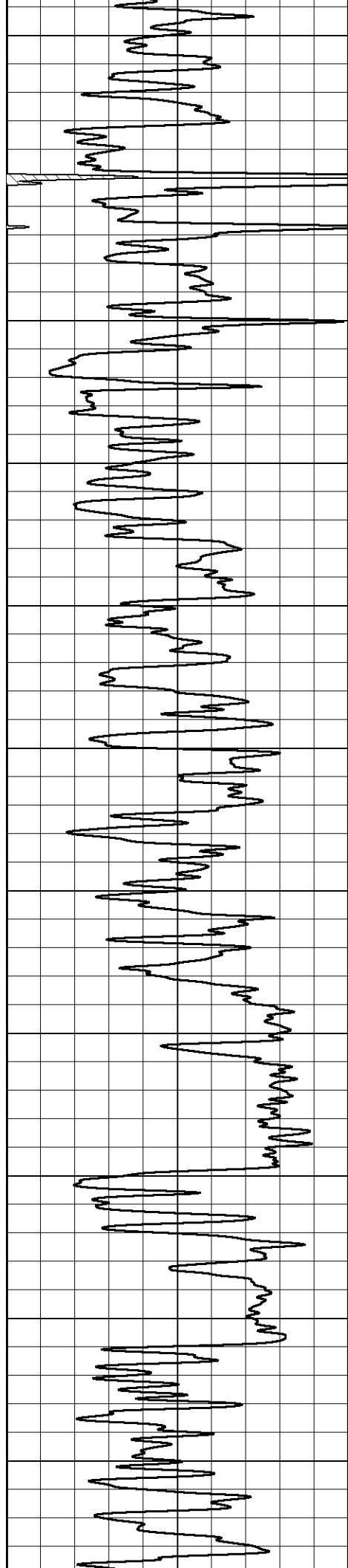




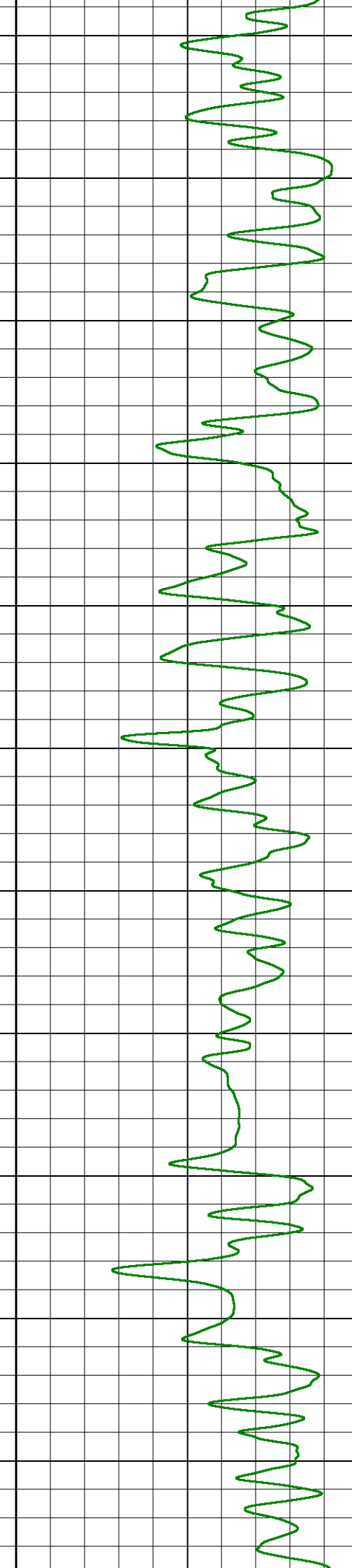
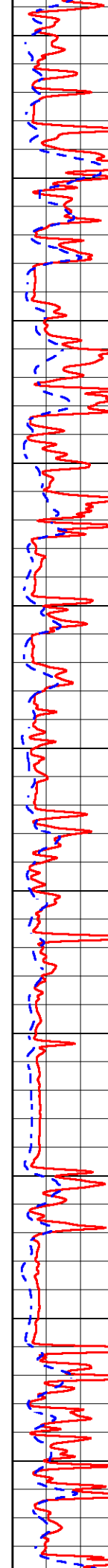


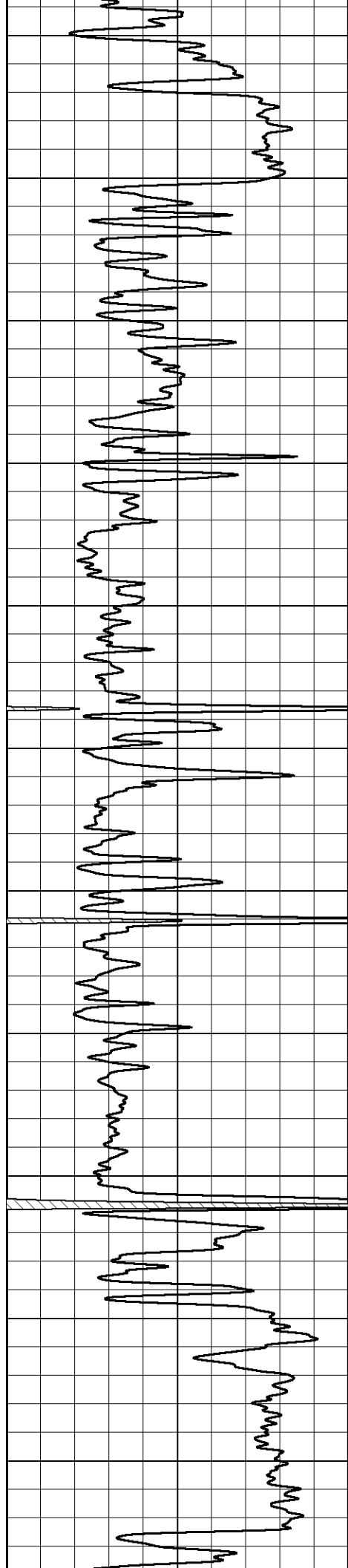




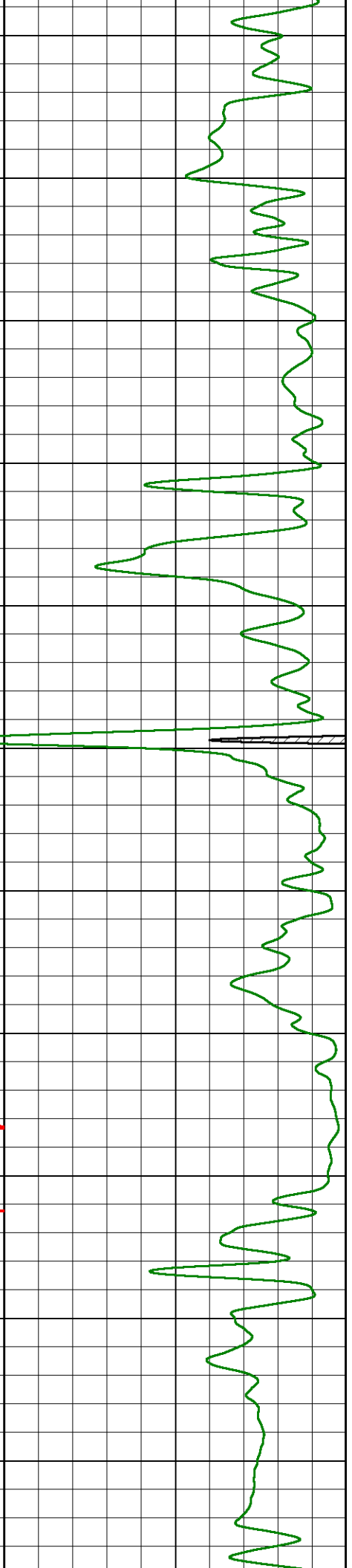
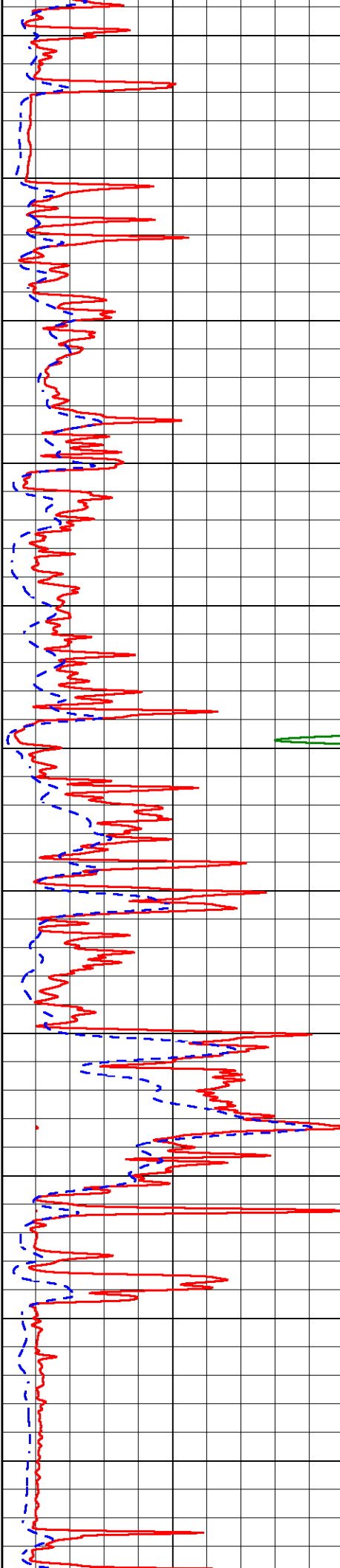


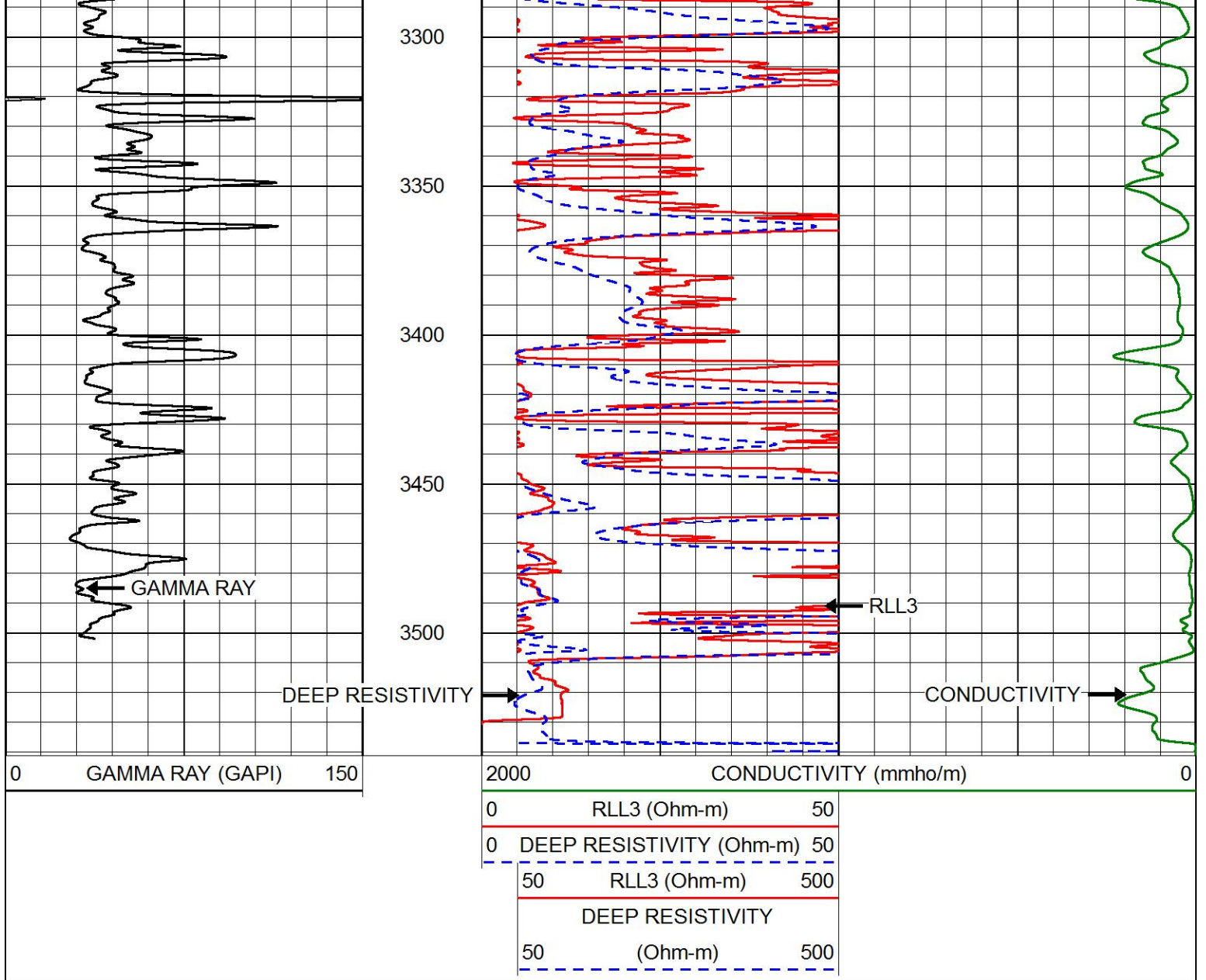
2200  
2250  
2300  
2350  
2400  
2450  
2500  
2550  
2600  
2650  
2700





2750  
2800  
2850  
2900  
2950  
3000  
3050  
3100  
3150  
3200  
3250



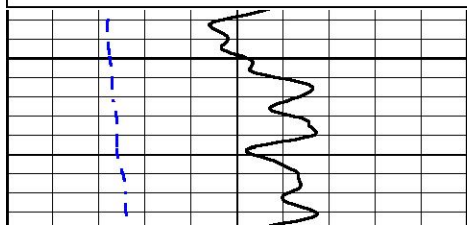


# MAIN PASS

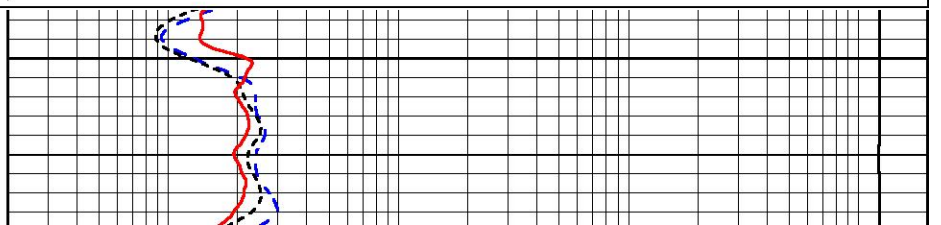
Database File darrah\_gaunt\_32b\_1.db  
 Dataset Pathname stackml/pass3.1  
 Presentation Format dil  
 Dataset Creation Mon Sep 11 20:59:24 2017  
 Charted by Depth in Feet scaled 1:240

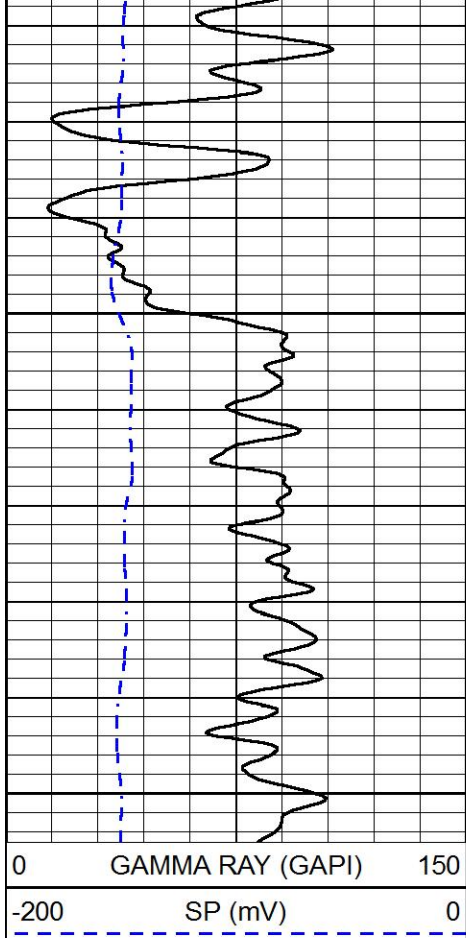
0	GAMMA RAY (GAPI)	150
-200	SP (mV)	0

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



750

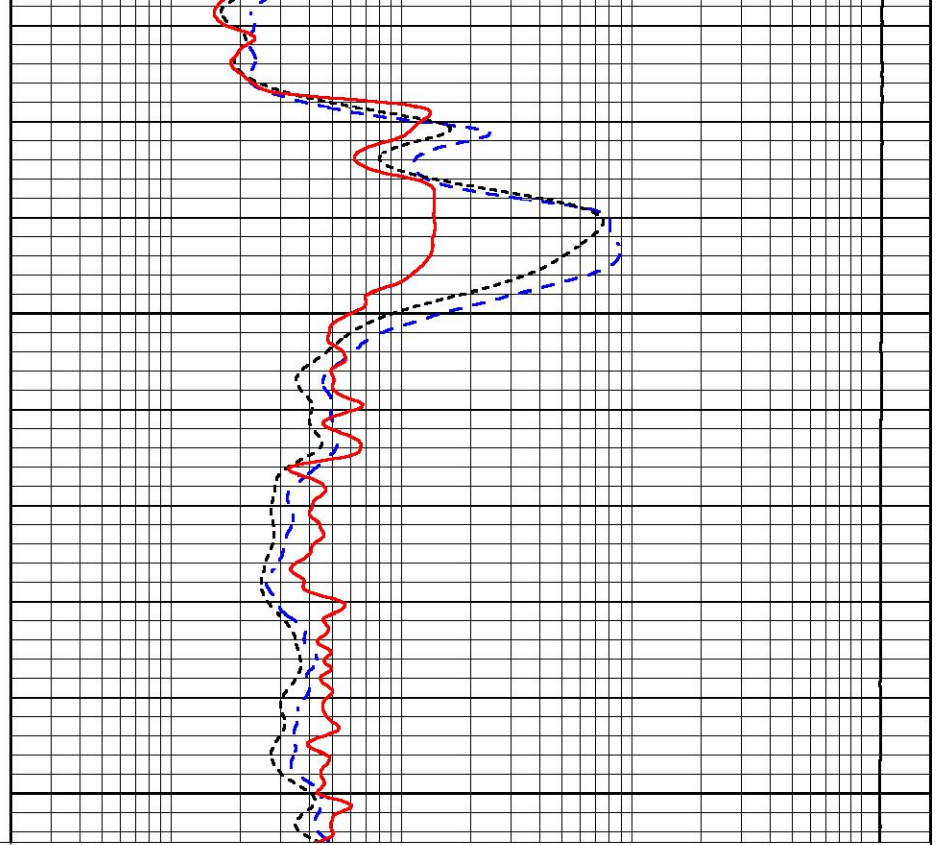




800

850

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

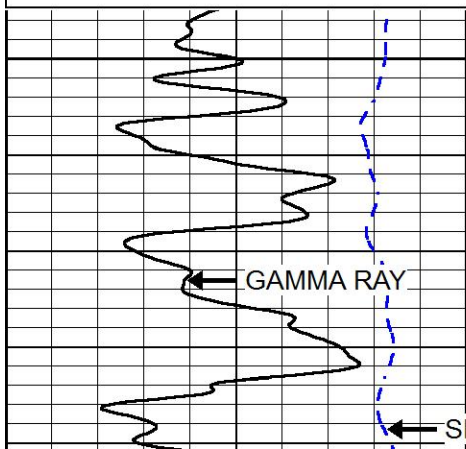


# MAIN PASS

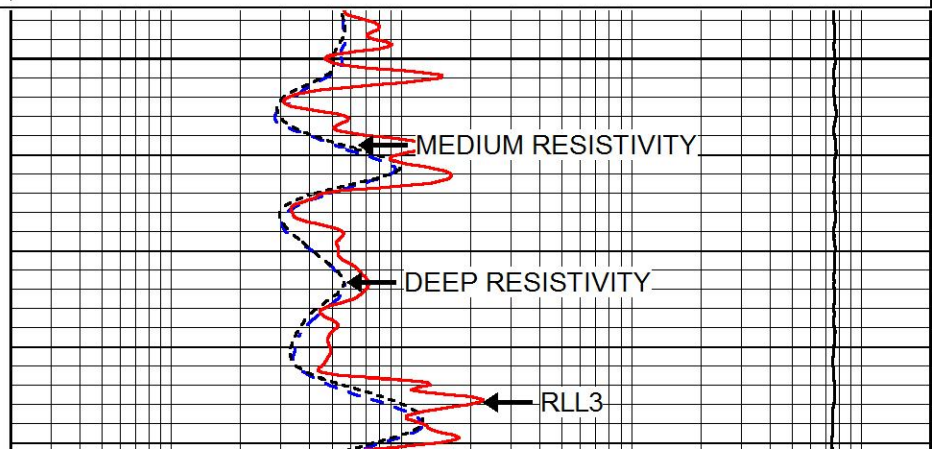
Database File      darrah\_gaunt\_32b\_1.db  
 Dataset Pathname    stackml/pass3.1  
 Presentation Format    dil  
 Dataset Creation      Mon Sep 11 20:59:24 2017  
 Charted by            Depth in Feet scaled 1:240

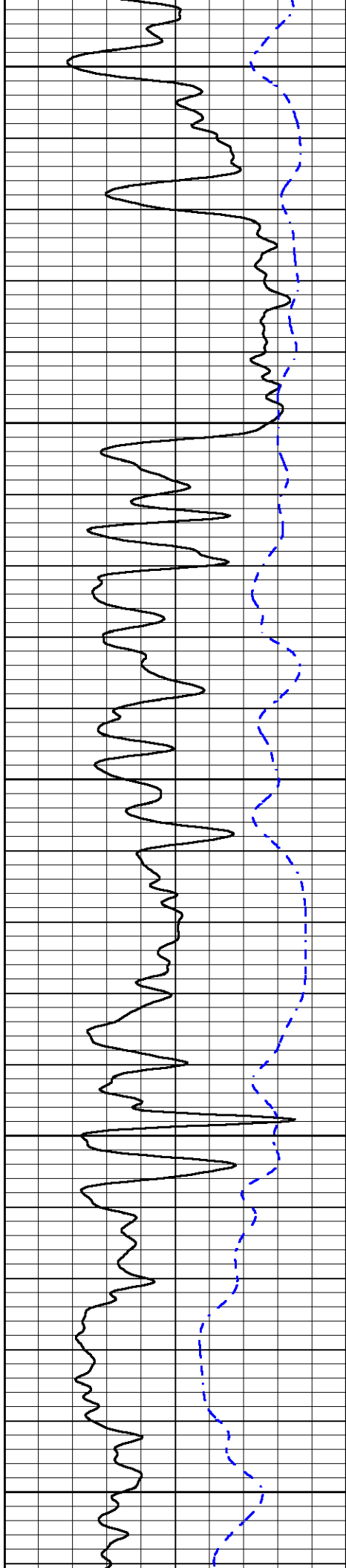
0	GAMMA RAY (GAPI)	150
-200	SP (mV)	0

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



2700





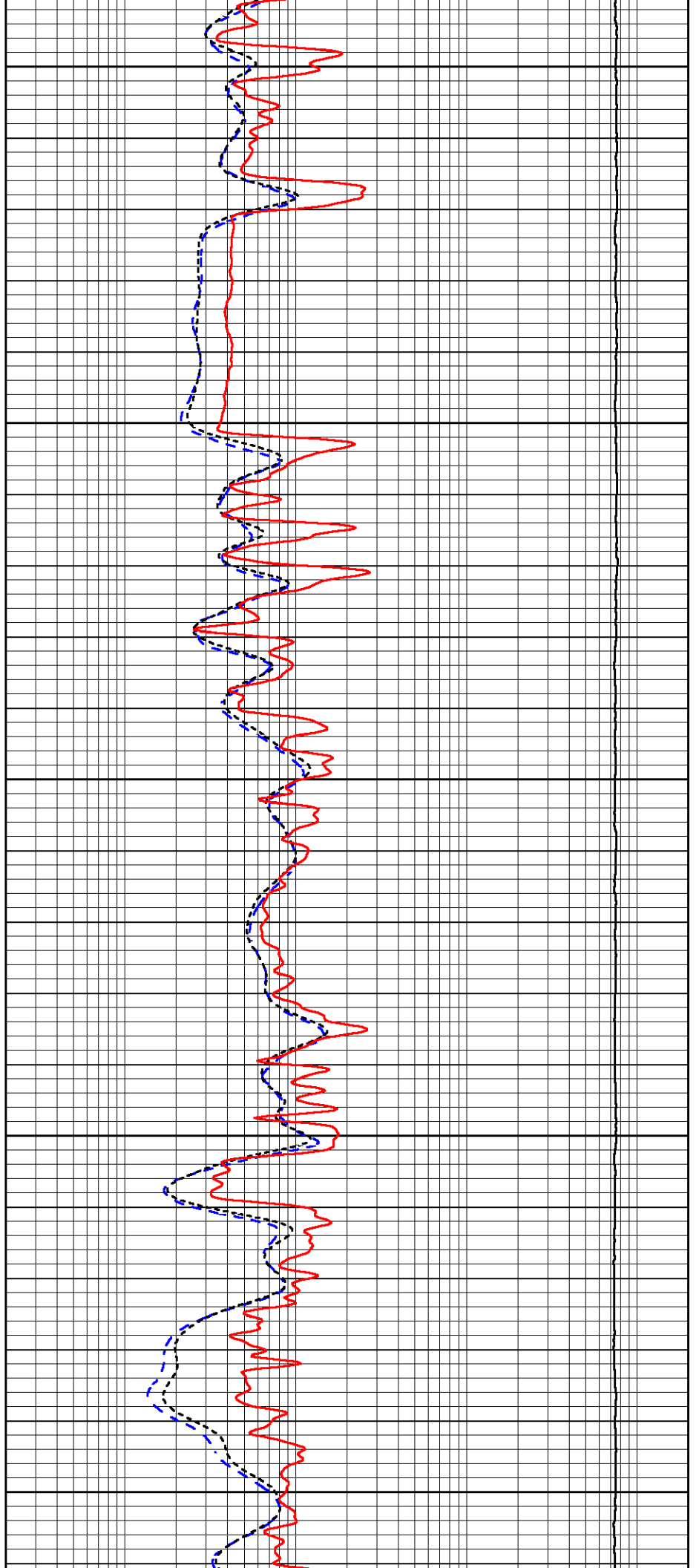
2750

2800

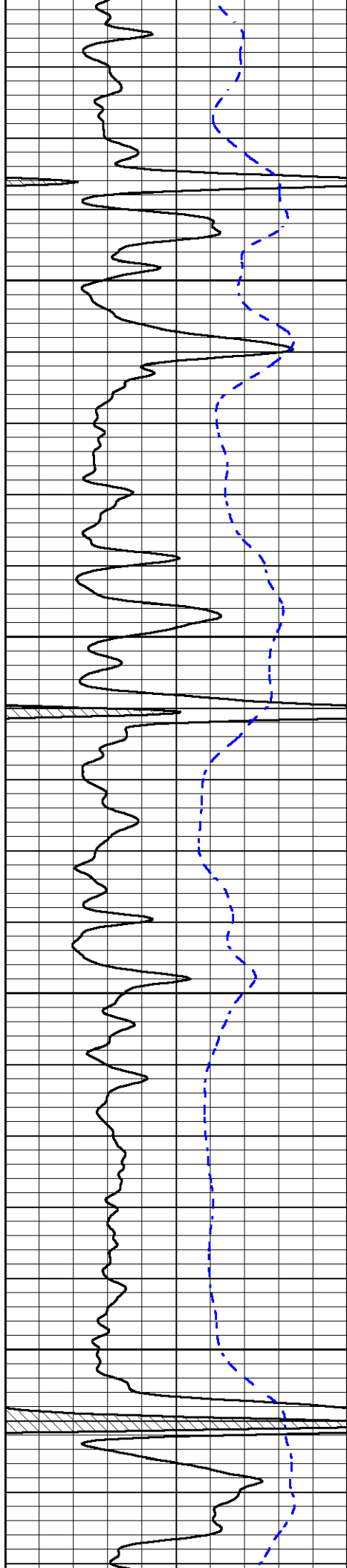
2850

2900

2950





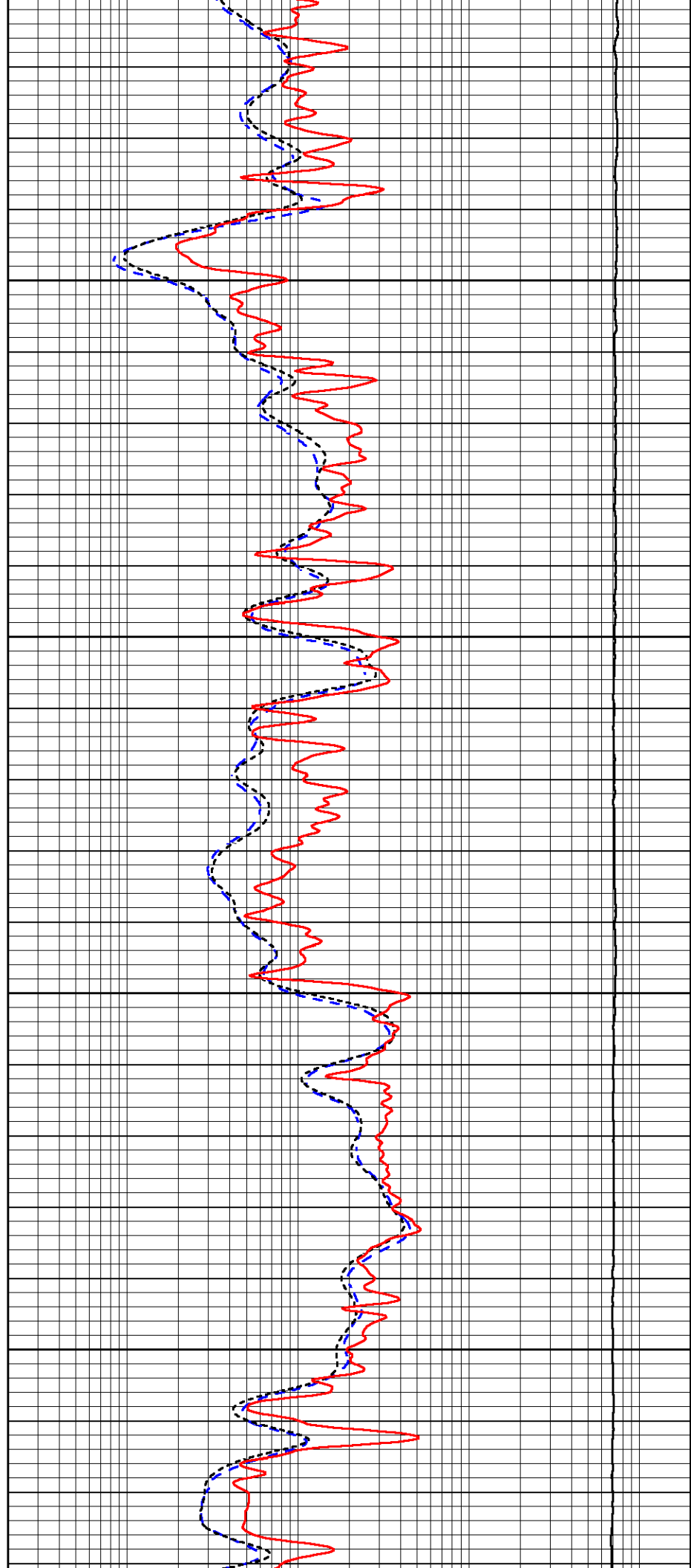


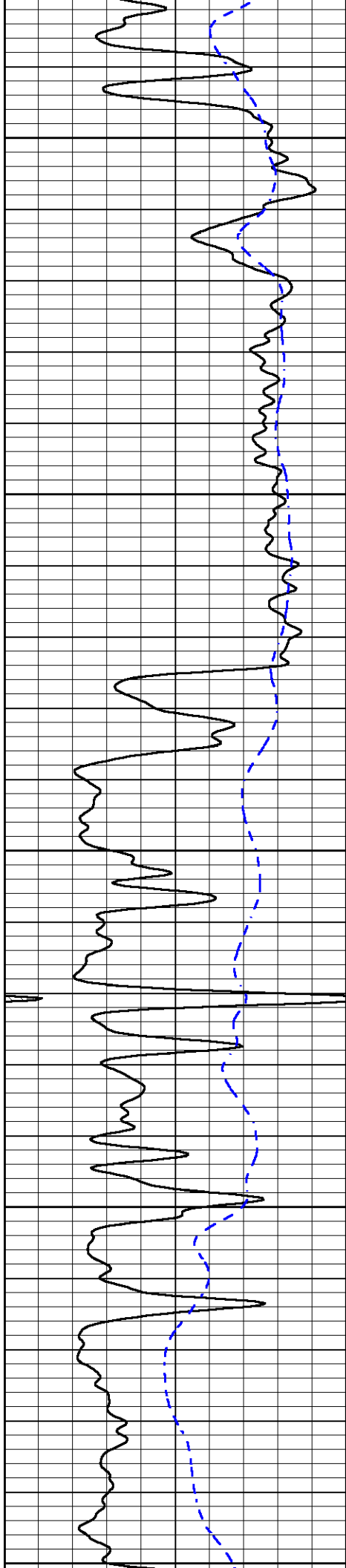
3000

3050

3100

3150





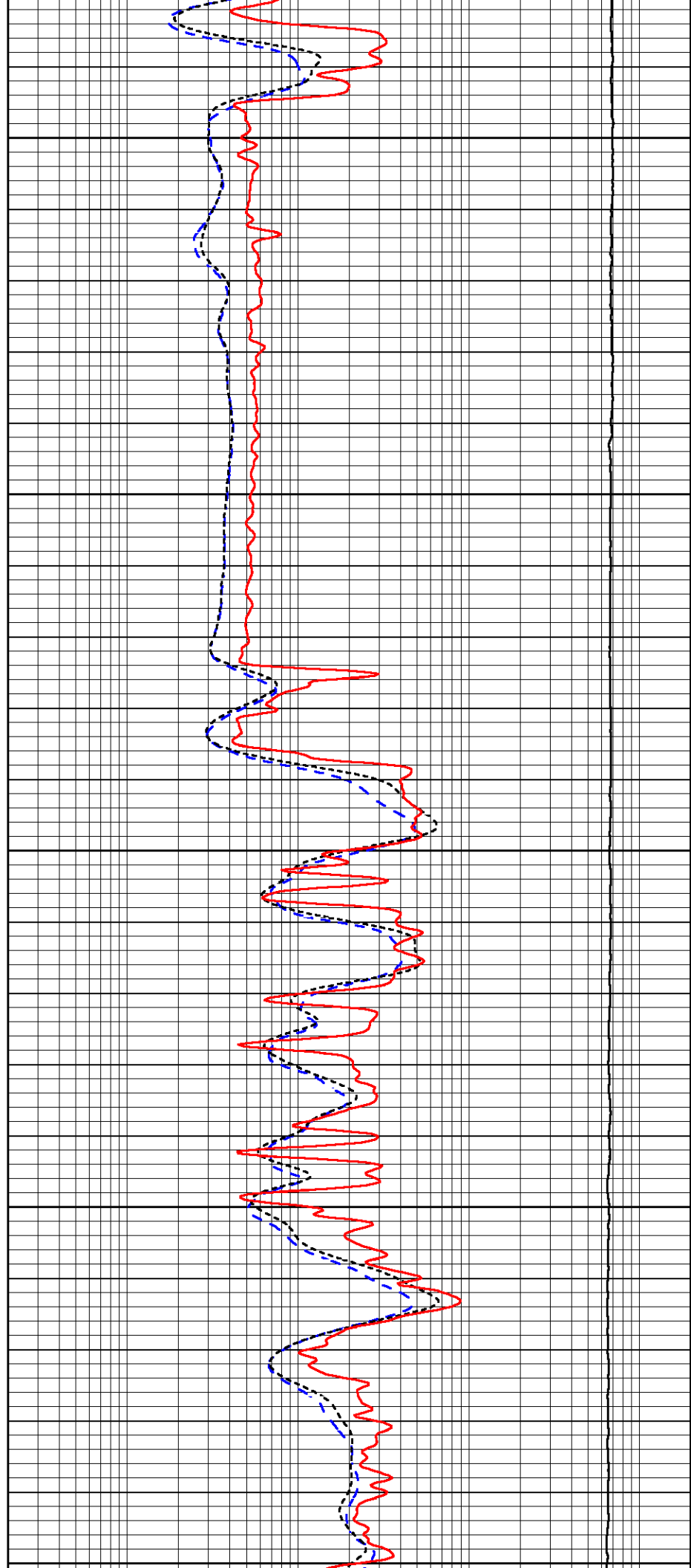
3200

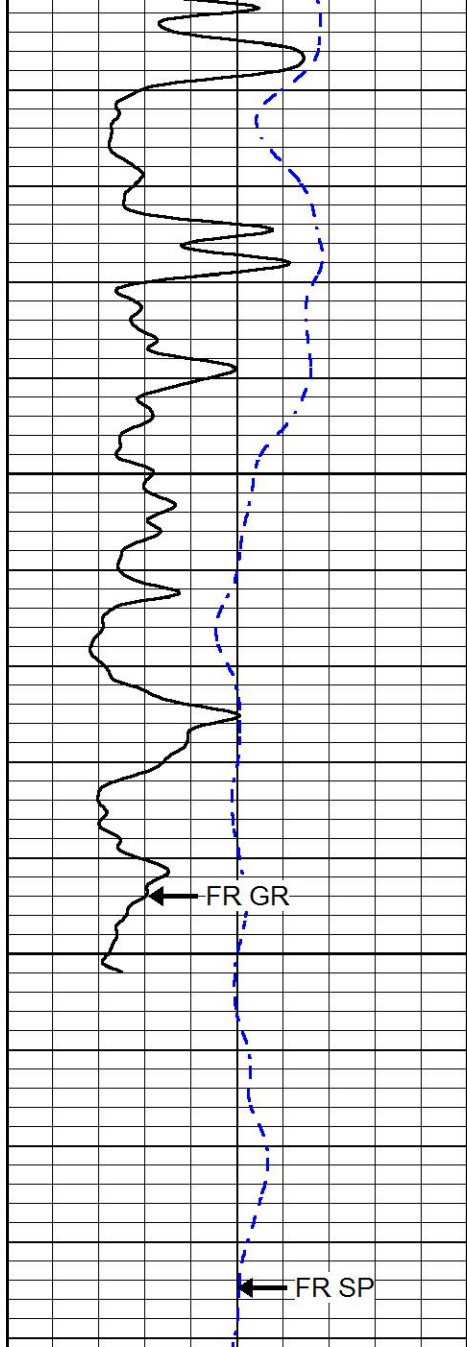
3250

3300

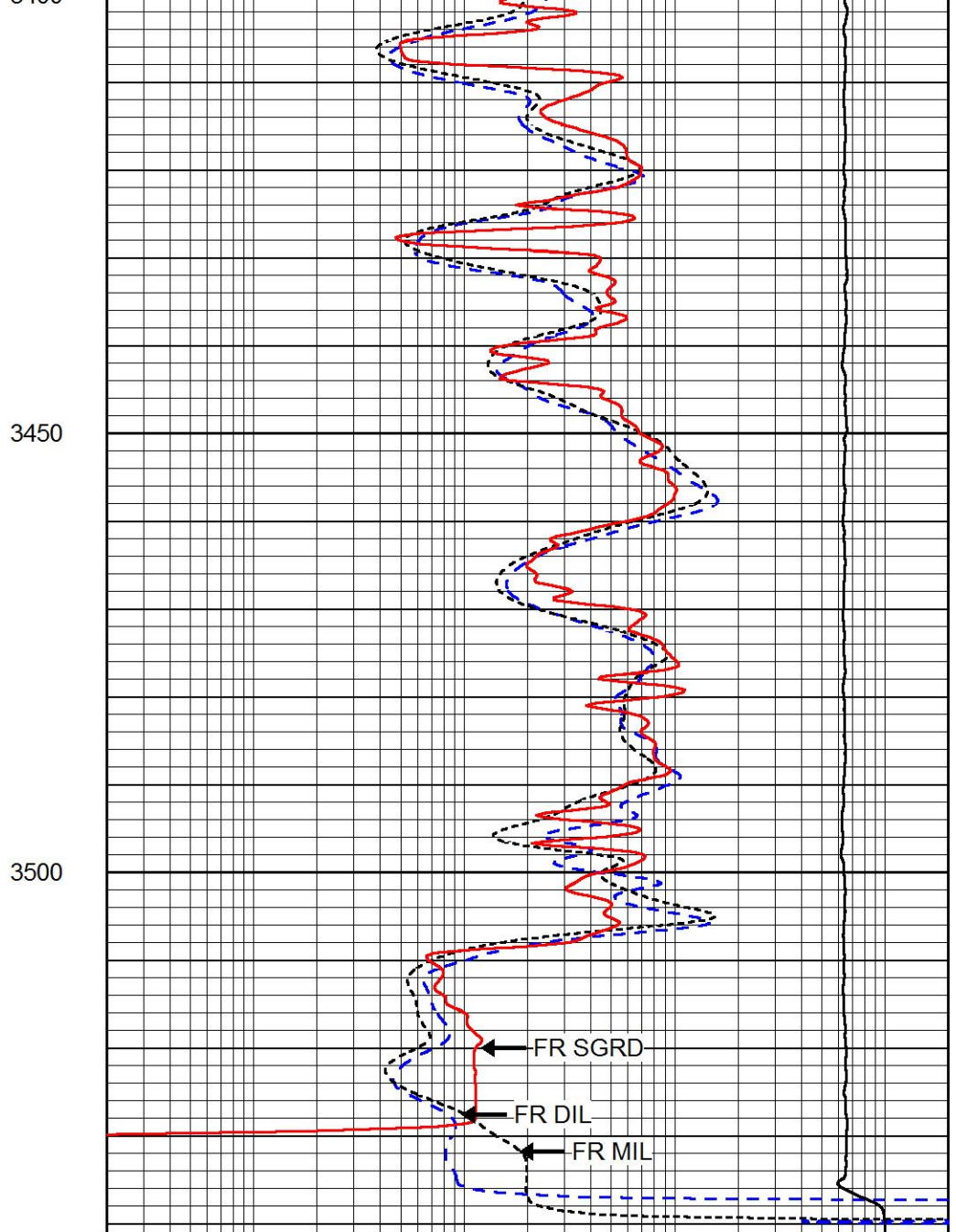
3350

3400





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



# REPEAT SECTION

Database File	darrah_gaunt_32b_1.db
Dataset Pathname	stackml/pass2.1
Presentation Format	dil
Dataset Creation	Mon Sep 11 20:48:53 2017
Charted by	Depth in Feet scaled 1:240

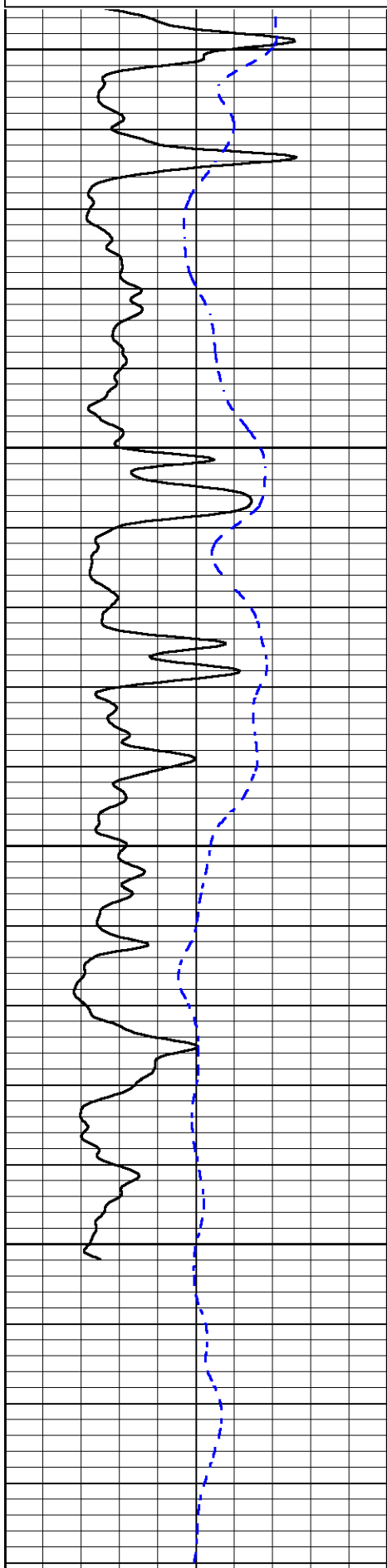
0	GAMMA RAY (GAPI)	150
-200	SP (mV)	0

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



3350

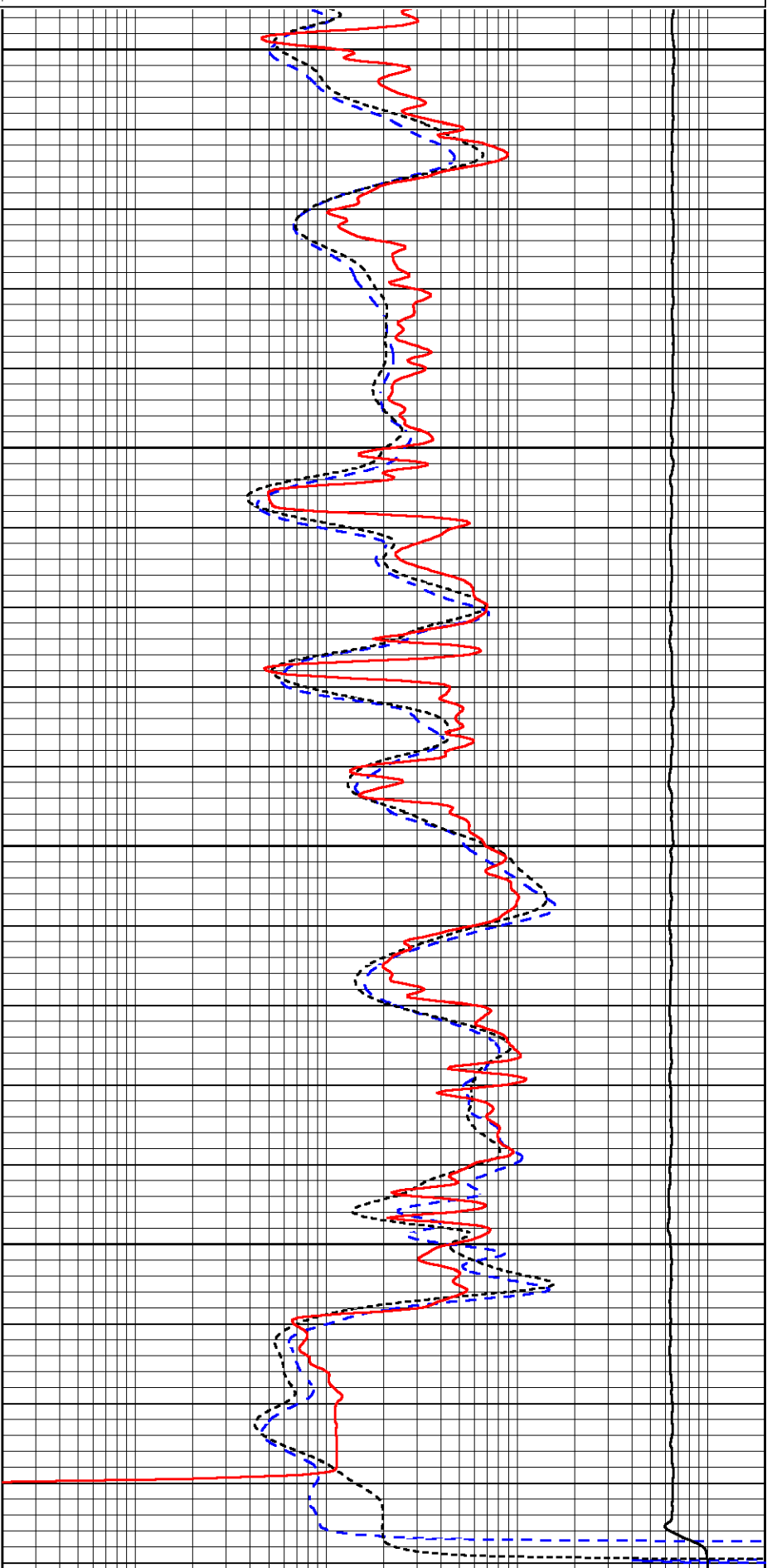
3400

3450

3500

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

## Calibration Report

Database File darrah\_gaunt\_32b\_1.db  
 Dataset Pathname stackml/pass3.1  
 Dataset Creation Mon Sep 11 20:59:24 2017

## Dual Induction Calibration Report

Serial-Model: 1987-M&W  
 Calibration Performed: Tue Apr 11 16:07:38 2017

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	178.615	710.235	0.000	255.800	mmho/m	0.530	-36.500
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.440	-110.500

## Microlog Calibration Report

Serial-Model: PSI-02-PSI STKBL ML  
 Performed: Fri Jun 23 00:25:19 2017

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0031	0.0043	0.0000	10.0000	Ohm-m	28000.0000	0.0000
Inverse	0.0000	0.0013	0.0000	10.0000	Ohm-m	30000.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1560	-131.2500

## Compensated Density Calibration Report

Serial-Model: 168-986-M&W  
 Source / Verifier: /  
 Master Calibration Performed: Tue Apr 11 16:07:47 2017

## Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4691.86	4818.19	cps
Aluminum	2.675	g/cc	859.57	3020.22	cps
Spine Angle = 74.61			Density/Spine Ratio = 0.523		
	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 16:08:01 2017	
Calibrator Value:	1000.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	6.2	cps
Sensitivity:	0.5200	GAPI/cps



**PIONEER**  
Pioneer Energy Services

Company	DARRAH OIL
Well	GAUNT 32B NO.1
Field	HISS SOUTHEAST
County	BARTON
State	KANSAS



# MICRORESISTIVITY LOG

Company DARRAH OIL  
 Well GAUNT 32B NO.1  
 Field HISS SOUTHEAST  
 County BARTON  
 State KANSAS

Company DARRAH OIL  
 Well GAUNT 32B NO.1  
 Field HISS SOUTHEAST  
 County BARTON State KANSAS

Location: API #: 15-009-26179-00-00  
 1635' FSL & 1988' FEL  
 SEC 32 TWP 20S RGE 13W  
 Permanent Datum GROUND LEVEL Elevation 1895'  
 Log Measured From KELLY BUSHING  
 Drilling Measured From KELLY BUSHING  
 Other Services  
 CNL/CDL  
 DIL  
 Elevation  
 K.B. 1901'  
 D.F. N/A  
 G.L. 1895'

Date	9/11/2017
Run Number	ONE
Depth Driller	3540'
Depth Logger	3536'
Bottom Logged Interval	3535'
Top Log Interval	2700'
Casing Driller	8.625" @ 330'
Casing Logger	328'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	N/A
Density / Viscosity	8.5 53
pH / Fluid Loss	N/A N/A
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.65 @ 70
Rmt @ Meas. Temp	.49 @ 70
Rmc @ Meas. Temp	.88 @ 70
Source of Rmf / Rmc	CHARTS
Rm @ BHT	.41 @ 111
Operating Rig Time	2 HOURS
Max Rec. Temp. F	111 DEGF
Equipment Number	108
Location	HAYS
Recorded By	J. HENRICKSON
Witnessed By	SETH EVENSON

<<< 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.  
 GREAT BEND KANSAS  
 SOUTH TO 60 RD, 1 WEST, 3/4 SOUTH, WEST INTO

Log Measured From: KELLY BUSHING      6 Ft. Above Permanent Datum

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

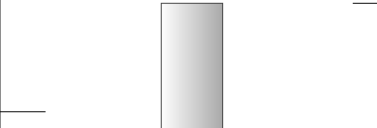
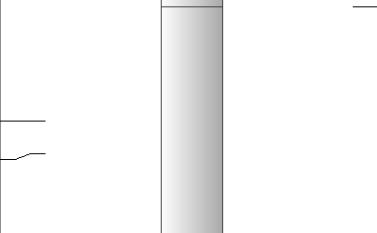
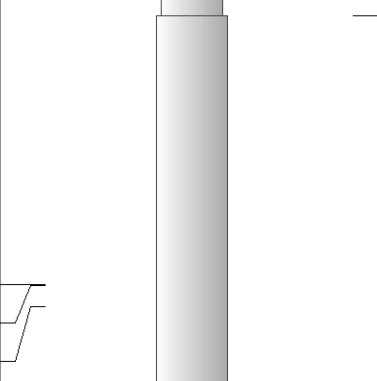
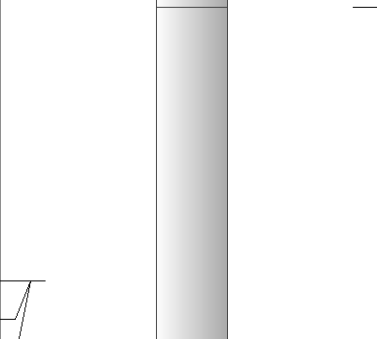
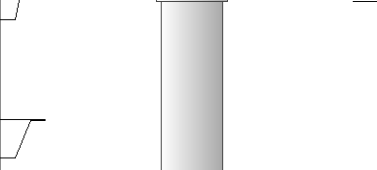
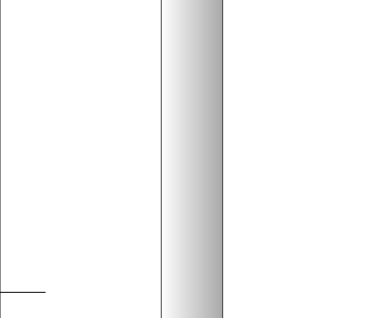
Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: J. HENRICKSON	Primary Witness: SETH EVENSON
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

# Log Variables

DatabaseC:\ProgramData\Warrior\Data\darrah\_gaunt\_32b\_1.db  
Dataset field/well/stackml/pass3.1/\_vars\_

## Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	111	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	-140	71	Off	3536

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (tk10-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (168-986)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58	4.00	65.00
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: darrah\_gaunt\_32b\_1.db: field/well/stackml/pass3.1  
 Total length: 43.08 ft  
 Total weight: 685.00 lb  
 O.D.: 4.00 in

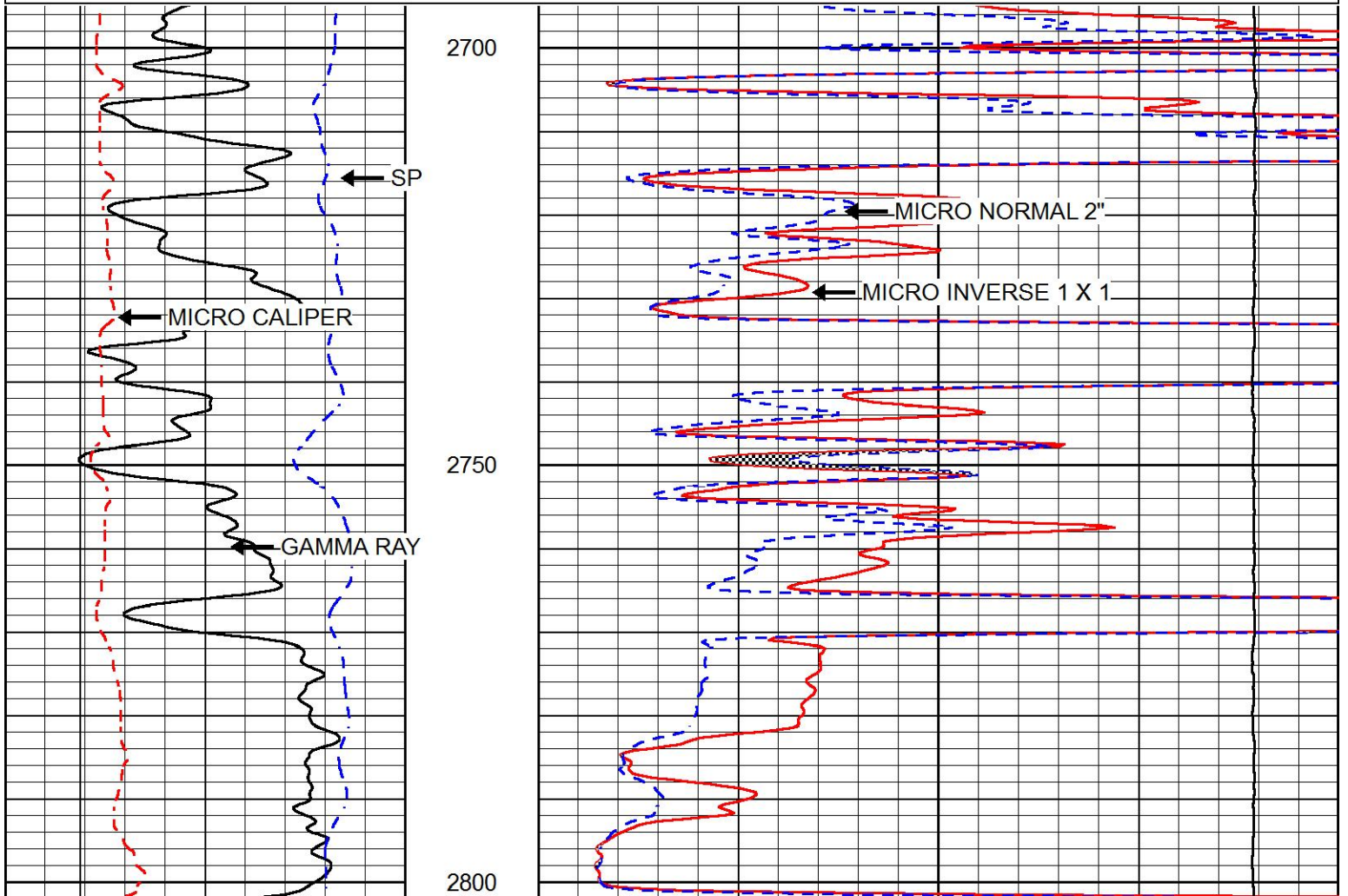


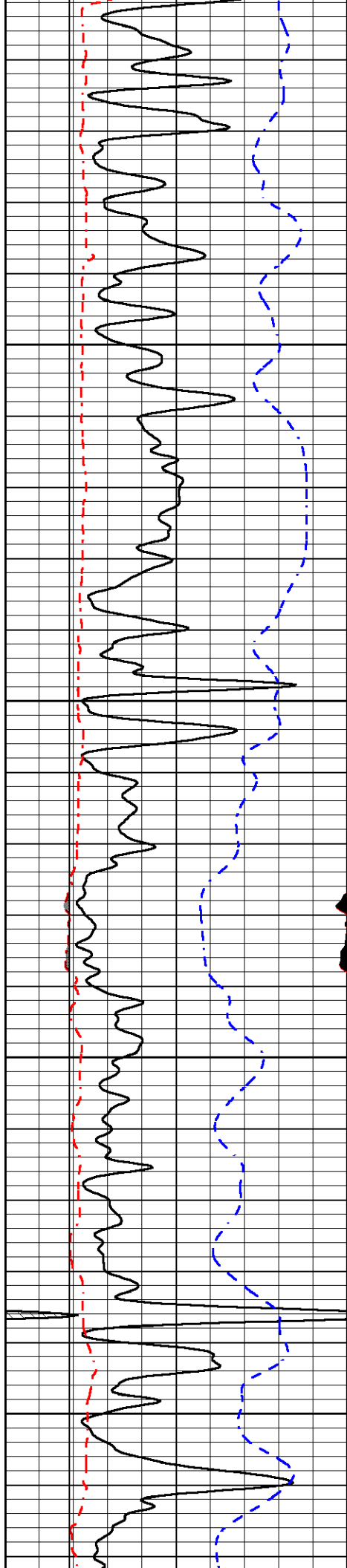
# MAIN PASS

Database File darrah\_gaunt\_32b\_1.db  
 Dataset Pathname stackml/pass3.1  
 Presentation Format micro  
 Dataset Creation Mon Sep 11 20:59:24 2017  
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
6	BIT SIZE (in)	16
-200	SP (mV)	0

0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
15000	LINE TENSION (lb)	0



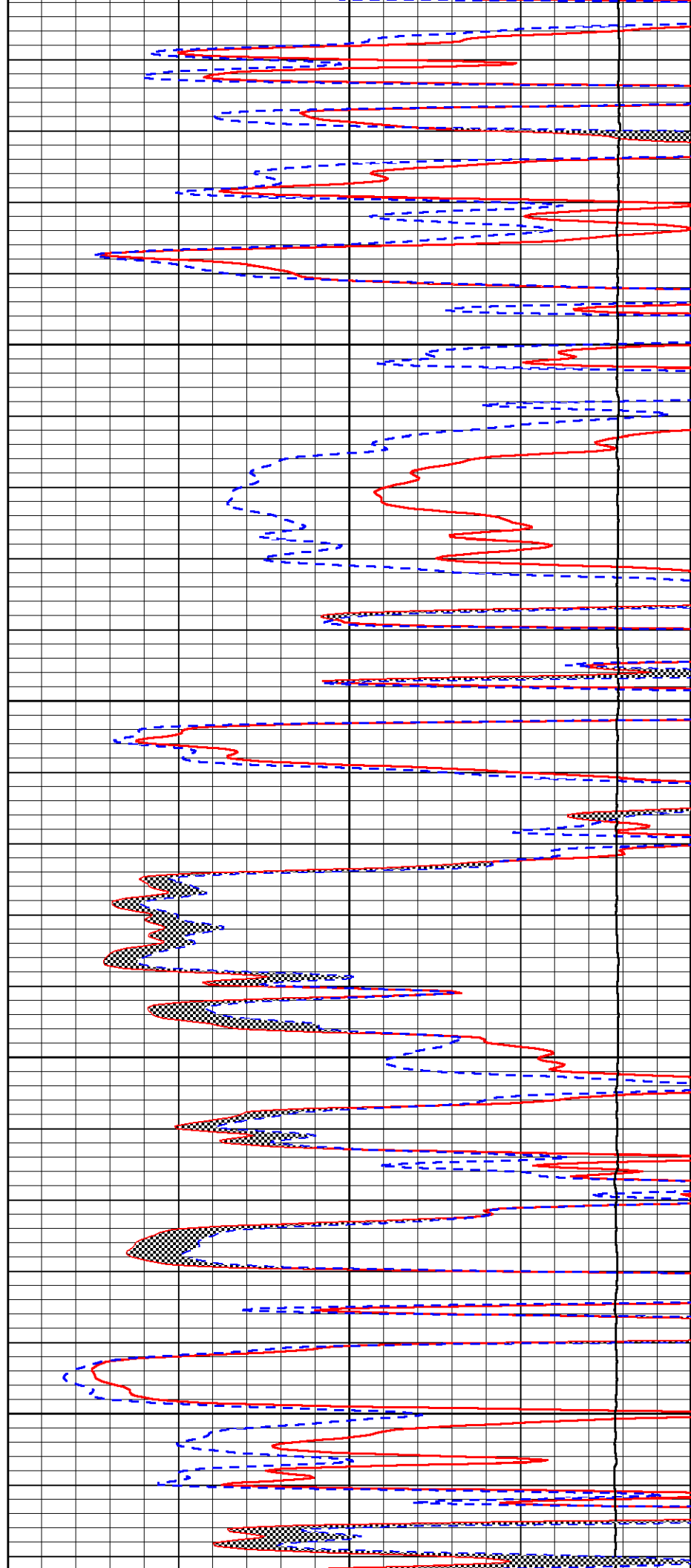


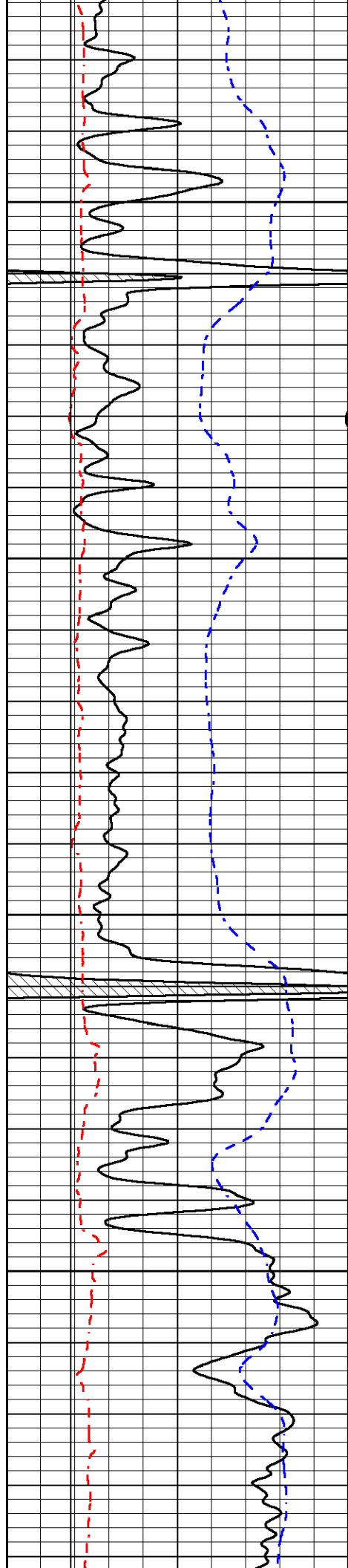
2850

2900

2950

3000



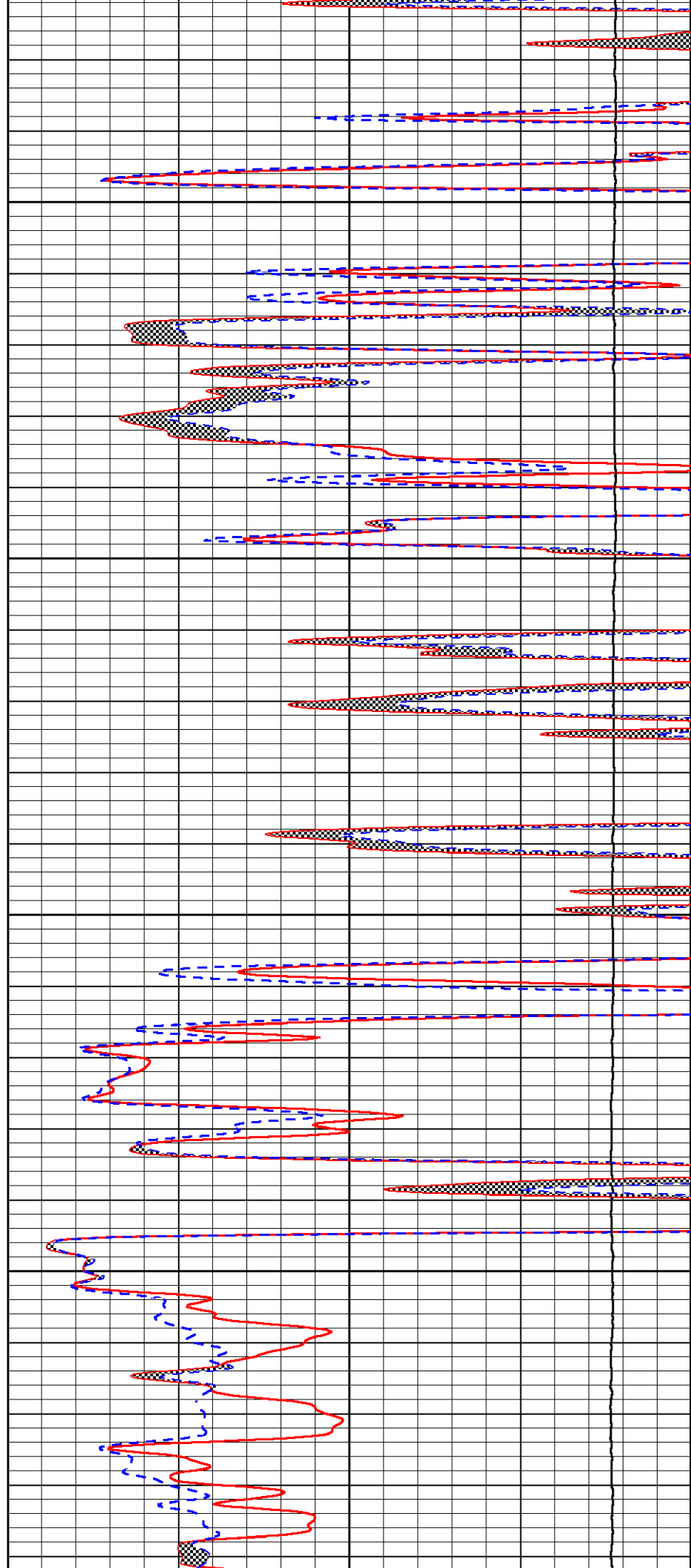


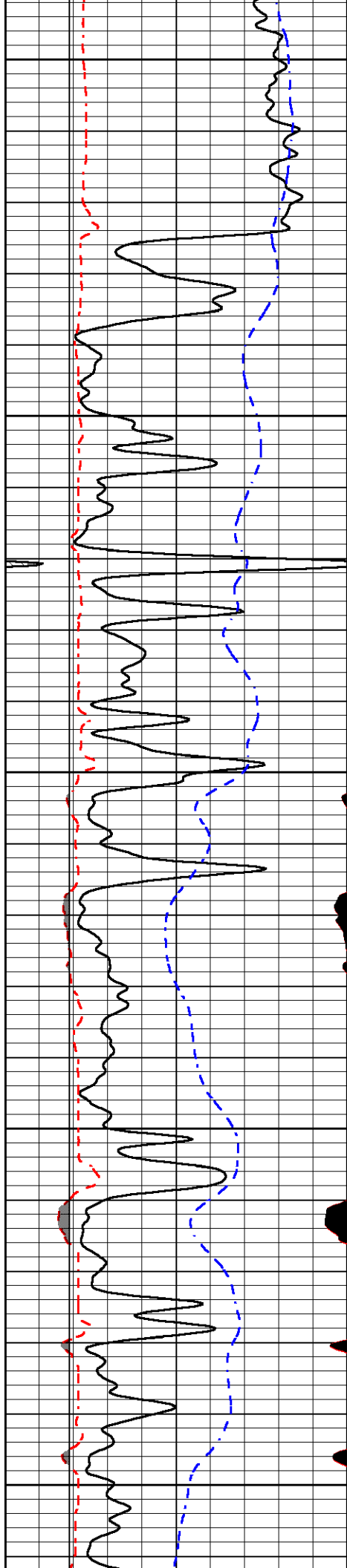
3050

3100

3150

3200





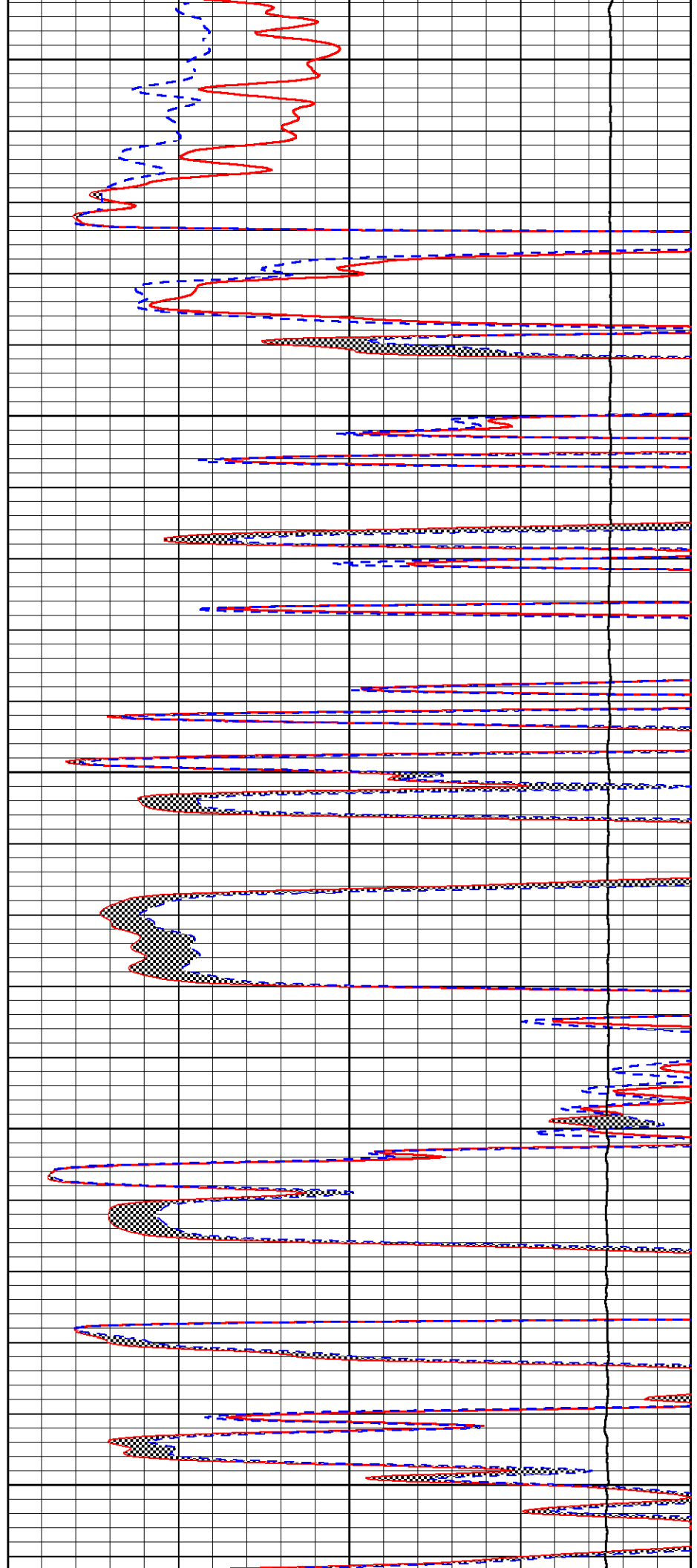
3250

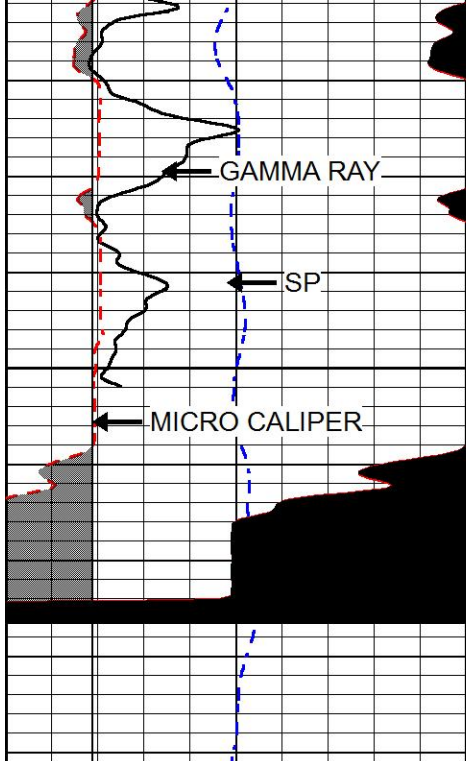
3300

3350

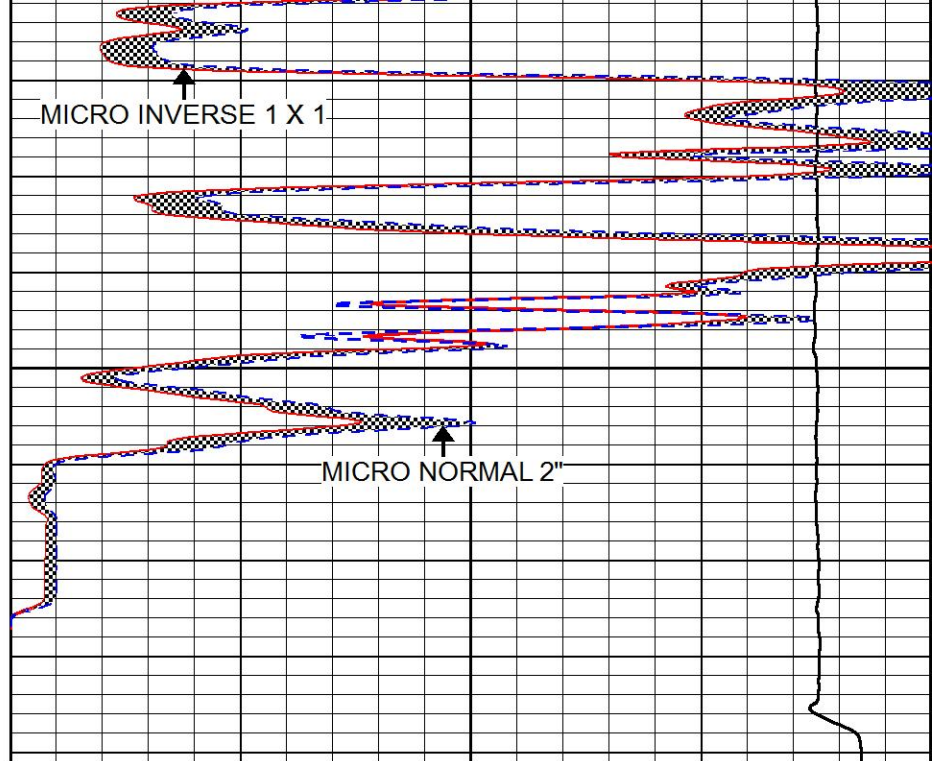
3400

3450





0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
6	BIT SIZE (in)	16
-200	SP (mV)	0



0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
15000	LINE TENSION (lb)	0

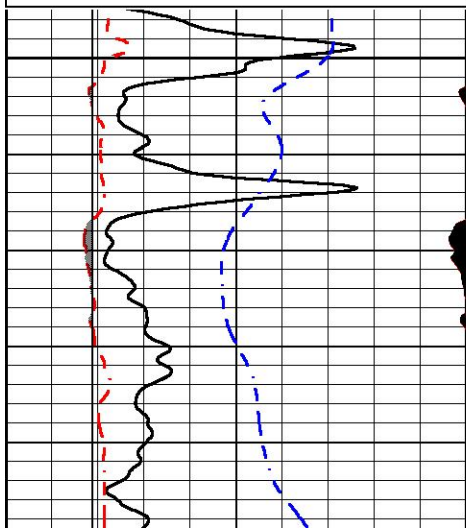


# REPEAT SECTION

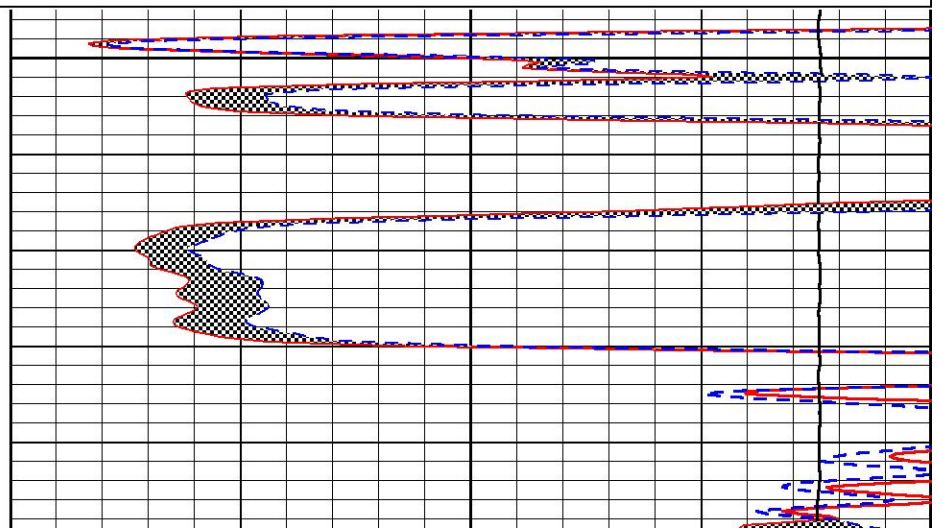
Database File      darrah\_gaunt\_32b\_1.db  
 Dataset Pathname    stackml/pass2.1  
 Presentation Format    micro  
 Dataset Creation      Mon Sep 11 20:48:53 2017  
 Charted by            Depth in Feet scaled 1:240

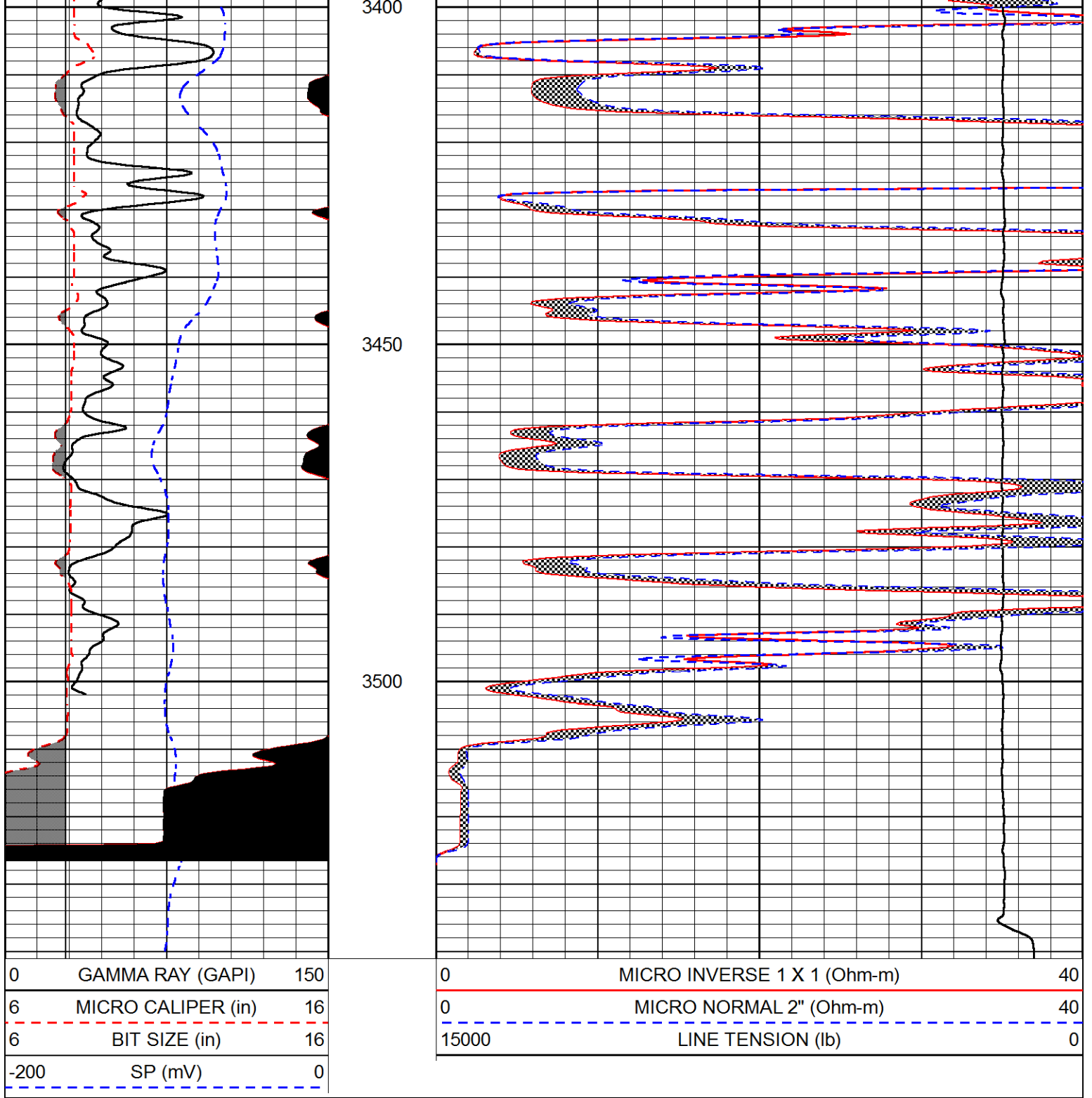
0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
6	BIT SIZE (in)	16
-200	SP (mV)	0

0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
15000	LINE TENSION (lb)	0



3350





### Calibration Report

Database File darrah\_gaunt\_32b\_1.db  
 Dataset Pathname stackml/pass3.1  
 Dataset Creation Mon Sep 11 20:59:24 2017

### Dual Induction Calibration Report

Serial-Model: 1987-M&W  
 Calibration Performed: Tue Apr 11 16:07:38 2017

Loop:	Readings		References		Results	
	Air	Loop	Air	Loop	Gain	Offset
Deep	178.615	710.235	0.000	255.800	0.530	-36.500

Depth 178.015 710.255 0.000 255.800 mmho/m 0.440 -110.500  
 Medium 161.982 1441.110 0.000 255.800 mmho/m 0.440 -110.500

Microlog Calibration Report

Serial-Model: PSI-02-PSI STKBL ML  
 Performed: Fri Jun 23 00:25:19 2017

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0031	0.0043	0.0000	10.0000	Ohm-m	28000.0000	0.0000
Inverse	0.0000	0.0013	0.0000	10.0000	Ohm-m	30000.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1560	-131.2500

Compensated Density Calibration Report

Serial-Model: 168-986-M&W  
 Source / Verifier: /  
 Master Calibration Performed: Tue Apr 11 16:07:47 2017

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4691.86	4818.19	cps
Aluminum	2.675	g/cc	859.57	3020.22	cps
Spine Angle = 74.61		Density/Spine Ratio = 0.523			
	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 16:08:01 2017

Calibrator Value: 1000.0 GAPI

Background Reading: 0.0 cps  
 Calibrator Reading: 6.2 cps

Sensitivity: 0.5200 GAPI/cps





**PIONEER**

Pioneer Energy Services

Company

Well GAUNT 32B NO.1  
Field HISS SOUTHEAST  
County BARTON  
State KANSAS



Conservation Division  
266 N. Main St., Ste. 220  
Wichita, KS 67202-1513



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

Pat Apple, Chairman  
Shari Feist Albrecht, Commissioner  
Jay Scott Emler, Commissioner

Sam Brownback, Governor

January 10, 2018

Will Darrah  
Darrah, John Jay, Jr.  
P.O. BOX 2786  
WICHITA, KS 67201-2786

Re: ACO-1  
API 15-009-26179-00-00  
GAUNT 32B 1  
SE/4 Sec.32-20S-13W  
Barton County, Kansas

Dear Will Darrah:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 09/05/2017 and the ACO-1 was received on January 10, 2018 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department