



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1319031  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

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

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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

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

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

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

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

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

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

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

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

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

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

Designate Type of Completion:

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

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

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

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

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

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

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

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

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

Datum:  NAD27       NAD83       WGS84

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

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

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

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

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

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

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

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

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

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

Location of fluid disposal if hauled offsite: \_\_\_\_\_

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

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

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

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

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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

1319031

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

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

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

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

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

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

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

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

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

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

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

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing    Pumping    Gas Lift    Other *(Explain)* \_\_\_\_\_

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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# GLOBAL CEMENTING, L.L.C.

2671

REMIT TO 1958 E. Highway 40  
Russell, KS 67665

SERVICE POINT: Russell

DATE <u>7-19-16</u>	SEC. <u>20</u>	TWP. <u>18</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>8:30PM</u>
LEASE <u>INMAN TRUST</u>	WELL.#. <u>1-20</u>	LOCATION <u>SCOTT CITY SE 1/2 S 1/4 W</u>	COUNTY <u>SCOTT</u>	STATE <u>KANSAS</u>			
OLD OR <u>NEW</u> (CIRCLE ONE)							

CONTRACTOR Discovery Drilling Rig # 3 OWNER \_\_\_\_\_

TYPE OF JOB Cement Surface

HOLE SIZE 12 1/4 T.D. 349

CASING SIZE 8 5/8 NEW DEPTH 349

TUBING SIZE 2 3/8 DEPTH \_\_\_\_\_

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

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

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

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

CEMENT LEFT IN CSG. 15'-20'

PERFS \_\_\_\_\_

DISPLACEMENT 2 1/4 BBL

EQUIPMENT \_\_\_\_\_

CEMENT AMOUNT ORDERED 250 SK @ 20 49cc

270 SK

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

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

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

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

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

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

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

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

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

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

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

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

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

TOTAL \_\_\_\_\_

PUMP TRUCK CEMENTER Glenn G.

# P-2 HELPER Cody H.

BULK TRUCK

# B-5 DRIVER Jason M.

BULK TRUCK

# \_\_\_\_\_ DRIVER \_\_\_\_\_

REMARKS:  
Set 8 5/8 @ 349 8'ITS  
Receive Circulation  
Cement. Release  
Displace 2 1/4 BBL H<sub>2</sub>O  
SHUT IN @ 300 #.  
Cement Did Circulate THANKS

SERVICE

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

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

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

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

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

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

TOTAL \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

~~\_\_\_\_\_ @ \_\_\_\_\_~~

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

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

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

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

TOTAL \_\_\_\_\_

CHARGE TO: BREHM ASSET MANAGEMENT LLC

STREET \_\_\_\_\_

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

Global Cementing, L.L.C.,  
 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 GALEN FASNER

SIGNATURE Galen Fasner

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

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

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

# GLOBAL CEMENTING, L.L.C.

2874

REMIT TO 1958 E. Highway 40  
Russell, KS 67665

SERVICE POINT: RUSSELL

DATE <u>7-27-16</u>	SEC. <u>20</u>	TWP. <u>18</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>INMAN FAUST</u>	WELL # <u>1-20</u>		LOCATION <u>DIGHTON 16 W 1/2 S 4 W</u>		COUNTY <u>SCOTT</u>	STATE <u>KANSAS</u>	
OLD OR <input checked="" type="radio"/> NEW (CIRCLE ONE)							

CONTRACTOR <u>Discovery Drilling Rig #3 "Galen"</u> TYPE OF JOB <u>Rotary Plug</u> HOLE SIZE <u>7 7/8</u> I.D. <u>4710'</u> CASING SIZE <u>8 5/8 SURFACE</u> DEPTH <u>349</u> TUBING SIZE _____ DEPTH _____ DRILL PIPE <u>4 1/2 x-H</u> DEPTH <u>2250'</u> TOOL _____ DEPTH _____ PRES. MAX _____ MINIMUM _____ MEAS. LINE _____ SHOE JOINT _____ CEMENT LEFT IN CSG. _____ PERFS _____ DISPLACEMENT _____	OWNER _____  CEMENT AMOUNT ORDERED <u>300</u> <u>SX 40 4% GEL</u> <u>102</u> <u>1/4 # FID-Seal: SX</u>  COMMON _____ @ _____ POZMIX _____ @ _____ GEL _____ @ _____ CHLORIDE _____ @ _____ ASC _____ @ _____ _____ @ _____ _____ @ _____ _____ @ _____ _____ @ _____ HANDLING _____ @ _____ MILEAGE _____ @ _____ TOTAL _____
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EQUIPMENT

PUMP TRUCK # <u>P#1</u>	CEMENTER <u>Glenn G.</u>
BULK TRUCK # <u>B-5</u>	HELPER <u>Cody H.</u>
BULK TRUCK # _____	DRIVER <u>JASON M</u>
BULK TRUCK # _____	DRIVER _____

**REMARKS:**

- 50 SX @ 2250
- 20 SX @ 1470
- 50 SX @ 750
- 50 SX @ 390
- 20 SX @ 60
- 30 SX @ Rat Hole
- 20 SX @ Mouse Hole THANK'S

CHARGE TO: BREHM ASSET MANAGEMENT LLC.  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

Global Cementing, L.L.C.,  
 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 GAIEN GASCHLER  
 SIGNATURE Galen Gaschler

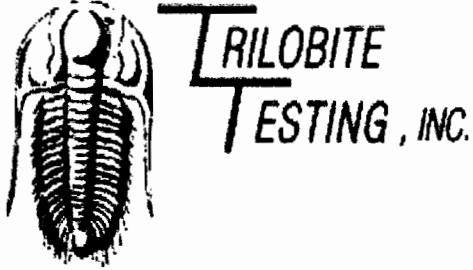
SERVICE

DEPTH OF JOB _____	TOTAL _____
PUMP TRUCK CHARGE _____	
EXTRA FOOTAGE _____ @ _____	
MILEAGE _____ @ _____	
MANIFOLD _____ @ _____	
_____ @ _____	
_____ @ _____	
TOTAL _____	

PLUG & FLOAT EQUIPMENT

_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
TOTAL _____	

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS



**DRILL STEM TEST REPORT**

Prepared For: **Brehm Asset Management**

11625 Custer Rd  
Frisco, Tx 75035

ATTN: Dwight Brehm

**Inman Trust #1-20**

**20-18s-31w Scott,KS**

Start Date: 2016.07.24 @ 19:57:35

End Date: 2016.07.25 @ 00:27:35

Job Ticket #: 65490                      DST #: 1

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

Printed: 2016.07.29 @ 15:04:47

Brehm Asset Management 20-18s-31w Scott,KS Inman Trust #1-20 DST # 1 Marmaton 2016.07.24



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Brehm Asset Management

**20-18s-31w Scott,KS**

11625 Custer Rd  
Frisco, Tx 75035

**Inman Trust #1-20**

Job Ticket: 65490

**DST#: 1**

ATTN: Dwight Brehn

Test Start: 2016.07.24 @ 19:57:35

### GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:13:05

Time Test Ended: 00:27:35

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: **4266.00 ft (KB) To 4390.00 ft (KB) (TVD)**

Reference Elevations: 2960.00 ft (KB)

Total Depth: 4390.00 ft (KB) (TVD)

2951.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 8166** Outside

Press@RunDepth: psig @ 4267.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.07.24

End Date:

2016.07.25

Last Calib..

2016.07.25

Start Time: 19:57:40

End Time:

00:27:34

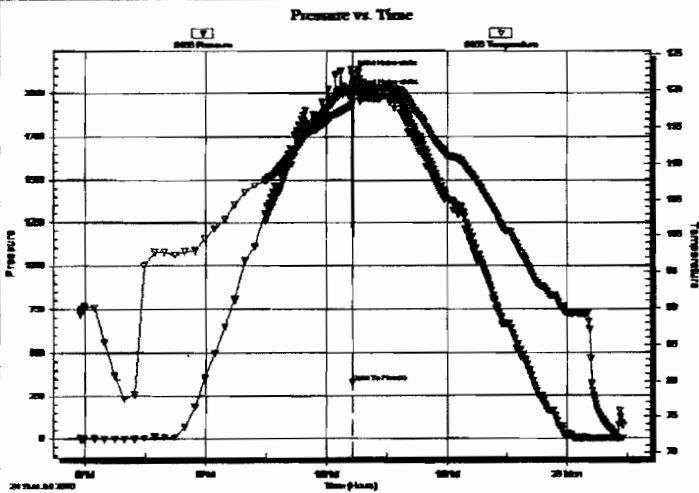
Time On Btm:

2016.07.24 @ 22:12:35

Time Off Btm:

2016.07.24 @ 22:13:35

TEST COMMENT: Packers Failed at open.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2107.83	117.98	Initial Hydro-static
1	327.81	118.38	Open To Flow (1)
1	1999.75	121.12	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
93.00	mud 100%m	1.02

### Gas Rates

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







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Brehm Asset Management

**20-18s-31w Scott,KS**

11625 Custer Rd  
Frisco, Tx 75035

**Inman Trust #1-20**

Job Ticket: 65490

**DST#: 1**

ATTN: Dwight Brehn

Test Start: 2016.07.24 @ 19:57:35

### Tool Information

Drill Pipe:	Length: 4218.00 ft	Diameter: 3.80 inches	Volume: 59.17 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: 30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 59.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4266.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	124.00 ft			
Tool Length:	151.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4240.00	
Shut In Tool	5.00			4245.00	
Hydraulic tool	5.00			4250.00	
Jars	5.00			4255.00	
Safety Joint	2.00			4257.00	
Packer	5.00			4262.00	27.00 Bottom Of Top Packer
Packer	4.00			4266.00	
Stubb	1.00			4267.00	
Recorder	0.00	8875	Inside	4267.00	
Recorder	0.00	8166	Outside	4267.00	
Perforations	21.00			4288.00	
Change Over Sub	1.00			4289.00	
Drill Pipe	95.00			4384.00	
Change Over Sub	1.00			4385.00	
Bullnose	5.00			4390.00	124.00 Bottom Packers & Anchor

**Total Tool Length: 151.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brehm Asset Management

**20-18s-31w Scott,KS**

11625 Custer Rd  
Frisco, Tx 75035

**Inman Trust #1-20**

Job Ticket: 65490

**DST#: 1**

ATTN: Dwight Brehm

Test Start: 2016.07.24 @ 19:57:35

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 63.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
93.00	mud 100% <sub>m</sub>	1.022

Total Length: 93.00 ft      Total Volume: 1.022 bbl

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

Laboratory Name:      Laboratory Location:

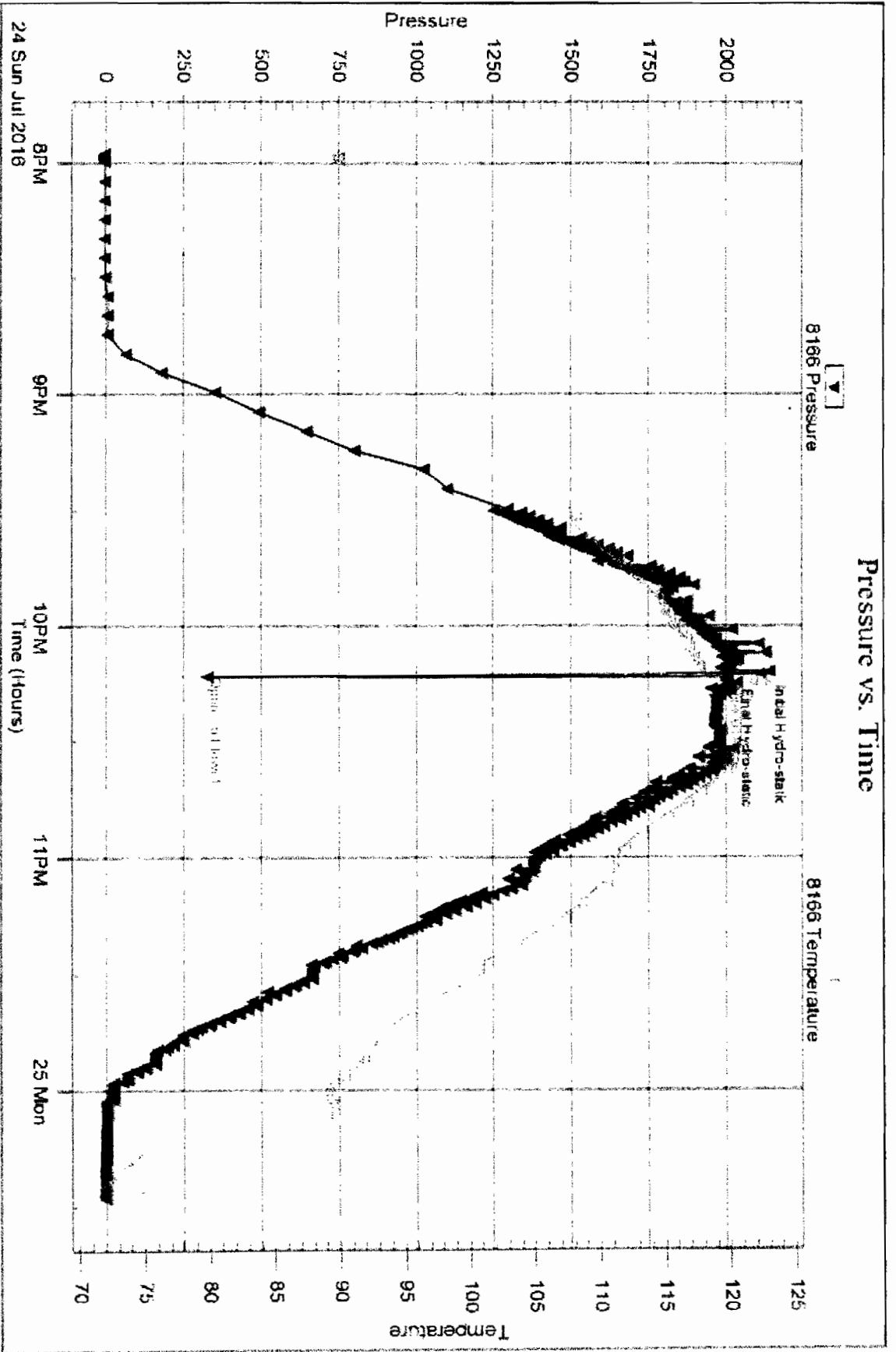
Recovery Comments:

Serial #: 8166

Outside Behm Asset Management

Imman Trust # 1-20

OST Test Number 1



Tribble Testing, Inc

Ref No: 65490

Printed 2016 07 29 @ 15:04:48

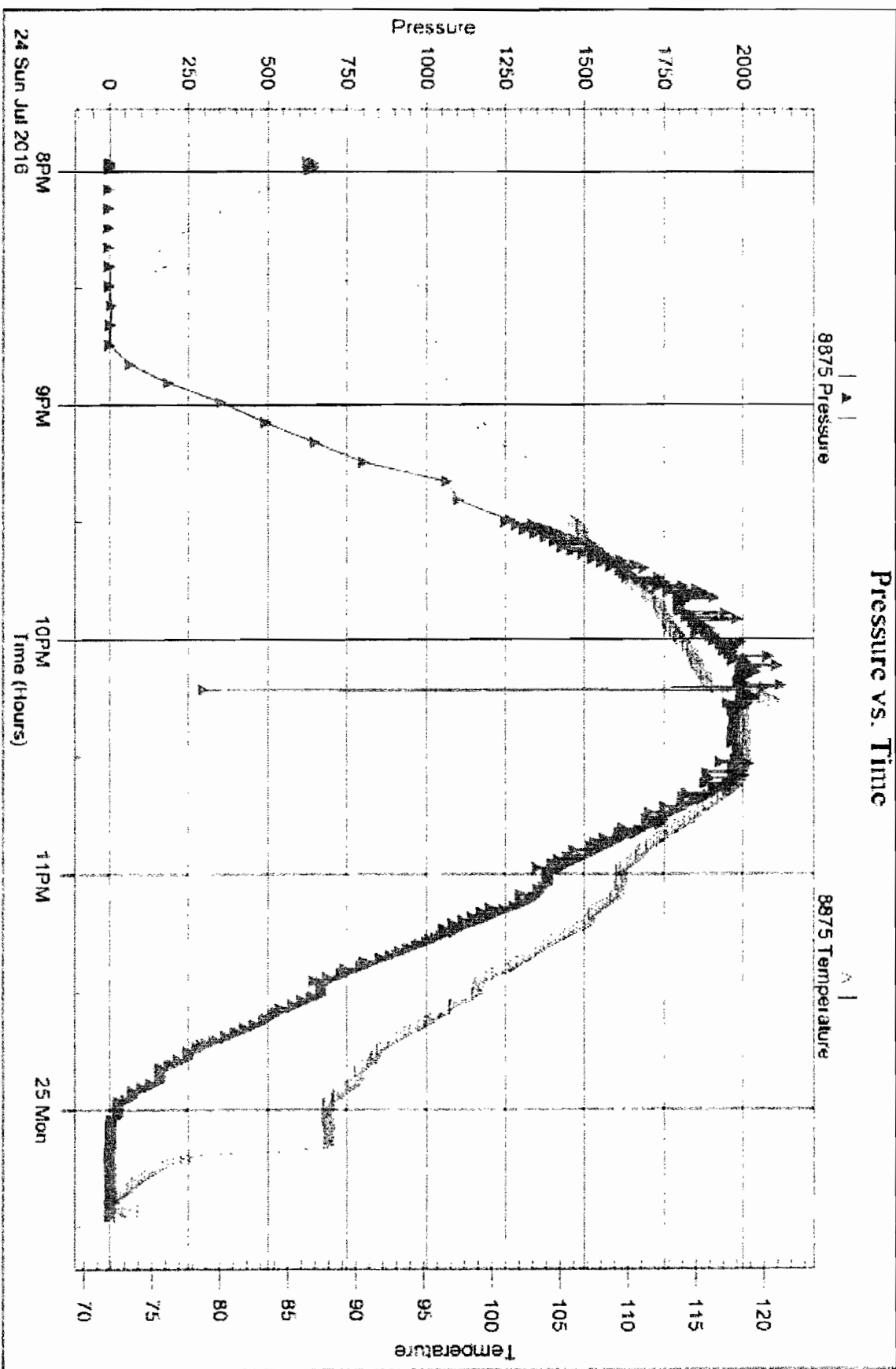
Serial # 8875

Inside

Event Asset Management

Human Trust #1-20

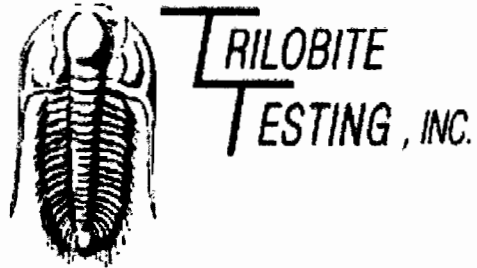
OST Test Number



Triebale Testing, Inc

Ref No: 65490

Printed 2016 07 29 @ 15:04:49



## DRILL STEM TEST REPORT

Prepared For: **Brehm Asset Management**

11625 Custer Rd  
Frisco, Tx 75035

ATTN: Dwight Brehm

**Inman Trust #1-20**

**20-18s-31w Scott,KS**

Start Date: 2016.07.25 @ 00:40:21

End Date: 2016.07.25 @ 07:05:51

Job Ticket #: 65491                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.07.29 @ 15:04:21



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Brehm Asset Management

20-18s-31w Scott, KS

11625 Custer Rd  
Frisco, Tx 75035

Inman Trust #1-20

Job Ticket: 65491

DST#: 2

ATTN: Dwight Brehm

Test Start: 2016.07.25 @ 00:40:21

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:07:21

Time Test Ended: 07:05:51

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4345.00 ft (KB) To 4390.00 ft (KB) (TVD)

Reference Elevations: 2960.00 ft (KB)

Total Depth: 4390.00 ft (KB) (TVD)

2951.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8166

Outside

Press@RunDepth: 167.55 psig @ 4346.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.07.25

End Date: 2016.07.25

Last Calib.: 2016.07.25

Start Time: 00:40:26

End Time: 07:05:50

Time On Btm: 2016.07.25 @ 01:57:21

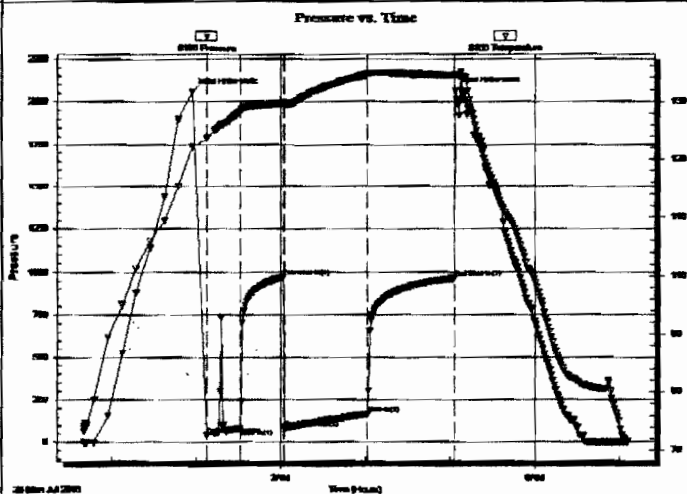
Time Off Btm: 2016.07.25 @ 05:03:51

TEST COMMENT: IF: 1/4" blow built to 8"

IS: No return.

FF: BOB in 39 min.

FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2058.10	122.12	Initial Hydro-static
10	41.75	123.58	Open To Flow (1)
34	80.62	128.34	Shut-In(1)
65	969.80	129.69	End Shut-In(1)
65	82.91	129.41	Open To Flow (2)
124	167.55	134.56	Shut-In(2)
186	963.69	134.39	End Shut-In(2)
187	2062.59	134.53	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
189.00	mcw 80%w 20%m	2.37
146.00	w cm oil spots 30%w 70%m	2.05

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Brehm Asset Management

**20-18s-31w Scott,KS**

11625 Custer Rd  
Frisco, Tx 75035

**Inman Trust #1-20**

Job Ticket: 65491

**DST#: 2**

ATTN: Dwight Brehn

Test Start: 2016.07.25 @ 00:40:21

**Tool Information**

Drill Pipe:	Length: 4312.00 ft	Diameter: 3.80 inches	Volume: 60.49 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: 30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 60.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4345.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4319.00	
Shut In Tool	5.00			4324.00	
Hydraulic tool	5.00			4329.00	
Jars	5.00			4334.00	
Safety Joint	2.00			4336.00	
Packer	5.00			4341.00	27.00 Bottom Of Top Packer
Packer	4.00			4345.00	
Stubb	1.00			4346.00	
Recorder	0.00	8875	Inside	4346.00	
Recorder	0.00	8166	Outside	4346.00	
Perforations	5.00			4351.00	
Change Over Sub	1.00			4352.00	
Drill Pipe	32.00			4384.00	
Change Over Sub	1.00			4385.00	
Bullnose	5.00			4390.00	45.00 Bottom Packers & Anchor

**Total Tool Length: 72.00**





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brehm Asset Management

**20-18s-31w Scott,KS**

11625 Custer Rd  
Frisco, Tx 75035

**Inman Trust #1-20**

Job Ticket: 65491

**DST#: 2**

ATTN: Dwight Brehn

Test Start: 2016.07.25 @ 00:40:21

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

24000 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
189.00	mcw 80%w 20%m	2.369
146.00	w cm oil spots 30%w 70%m	2.048

Total Length: 335.00 ft      Total Volume: 4.417 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

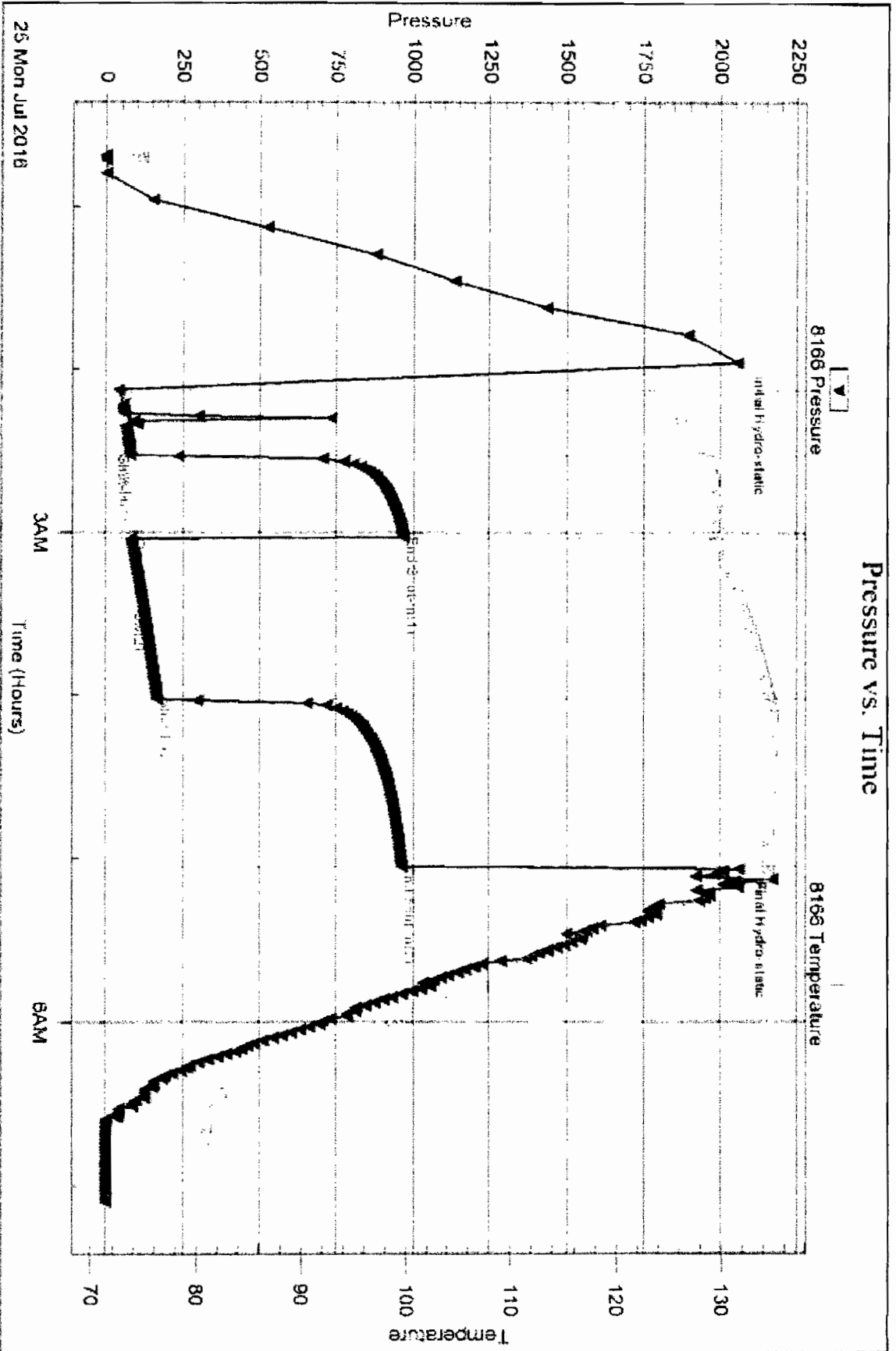
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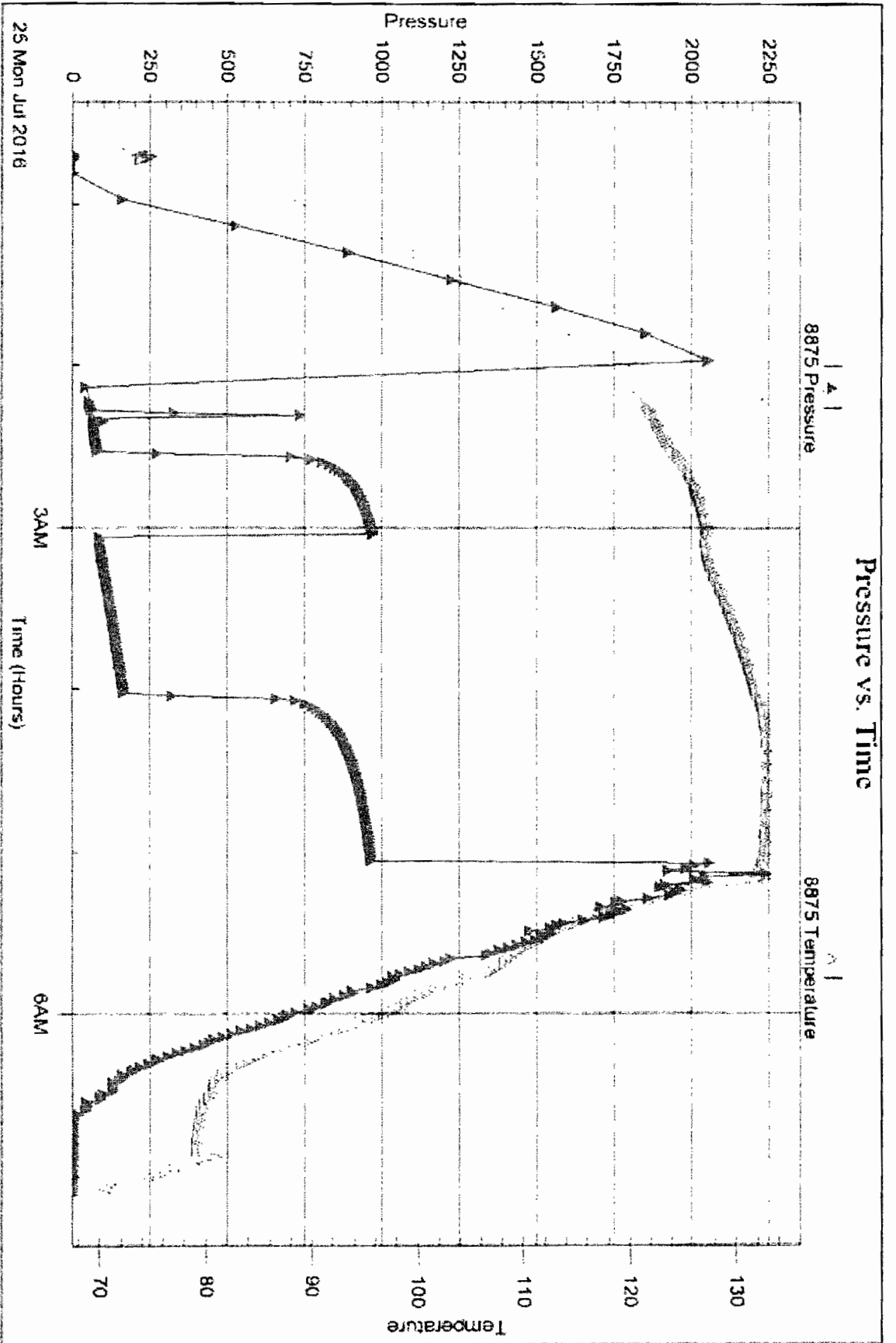
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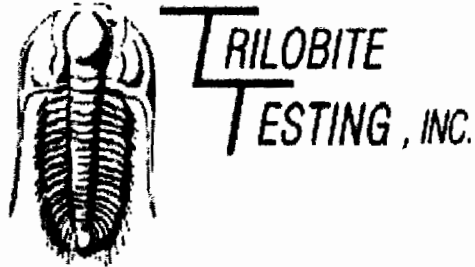
Outside Grein Asset Management

Insan Trust #1-20

DG7 Test Number 2







## DRILL STEM TEST REPORT

Prepared For: **Brehm Asset Management**

11625 Custer Rd  
Frisco, Tx 75035

ATTN: Dwight Brehm

**Inman Trust #1-20**

**20-18s-31w Scott,KS**

Start Date: 2016.07.26 @ 13:57:00

End Date: 2016.07.26 @ 21:46:30

Job Ticket #: 65492                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.07.29 @ 14:56:06

Brehm Asset Management

20-18s-31w Scott,KS

Inman Trust #1-20

DST # 3

Marmaton

2016.07.26



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Brehm Asset Management

20-18s-31w Scott,KS

11625 Custer Rd  
Frisco, Tx 75035

Inman Trust #1-20

ATTN: Dwight Brehm

Job Ticket: 65492

DST#: 3

Test Start: 2016.07.26 @ 13:57:00

### GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:20:00

Time Test Ended: 21:46:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: **4393.00 ft (KB) To 4407.00 ft (KB) (TVD)**

Reference Elevations: 2960.00 ft (KB)

Total Depth: 4710.00 ft (KB) (TVD)

2951.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: **8166** Outside

Press@RunDepth: 97.91 psig @ 4394.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.07.26

End Date: 2016.07.26

Last Calib.: 2016.07.26

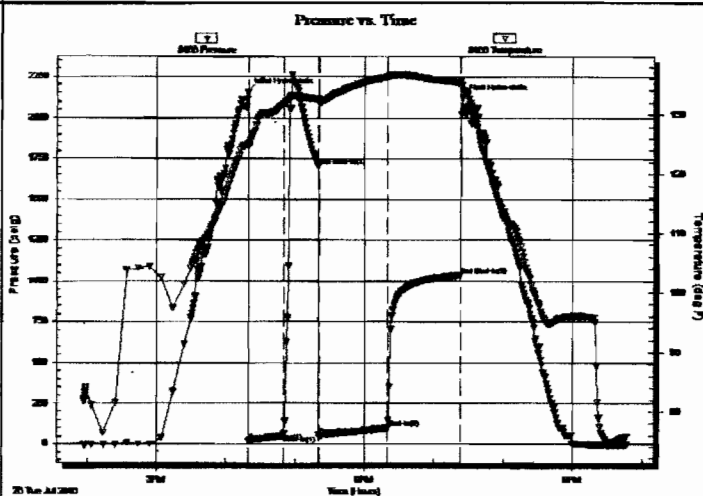
Start Time: 13:57:05

End Time: 21:46:29

Time On Btm: 2016.07.26 @ 16:19:00

Time Off Btm: 2016.07.26 @ 19:24:30

TEST COMMENT: IF: 1/4" blow built to 9"  
IS: No return. Tool slid about 3 feet.  
FF: BOB in 50 min.  
FS: No return.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2157.41	124.96	Initial Hydro-static
1	19.94	124.72	Open To Flow (1)
31	51.85	131.73	Shut-In(1)
61	1701.57	132.53	End Shut-In(1)
62	55.71	132.06	Open To Flow (2)
121	97.91	136.25	Shut-In(2)
184	1034.05	135.30	End Shut-In(2)
186	2117.33	134.80	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
63.00	mcw 80%w 20%m	0.60
63.00	ocmw 5%o 75%w 20%m	0.88
31.00	ocw m 10%o 20%w 70%m	0.43
36.00	oil 100%o	0.50
0.00	63 weak GIP	0.00

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Brehm Asset Management

11625 Custer Rd  
Frisco, Tx 75035

ATTN: Dwight Brehm

20-18s-31w Scott, KS

Inman Trust #1-20

Job Ticket: 65492

DST#: 3

Test Start: 2016.07.26 @ 13:57:00

### GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:20:00

Time Test Ended: 21:46:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: **4393.00 ft (KB) To 4407.00 ft (KB) (TVD)**

Total Depth: 4710.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2960.00 ft (KB)

2951.00 ft (CF)

KB to GR/CF: 9.00 ft

**Serial #: 8875** Inside

Press@RunDepth: psig @ 4394.00 ft (KB)

Start Date: 2016.07.26

End Date:

2016.07.26

Capacity: 8000.00 psig

Last Calib.:

2016.07.26

Start Time: 13:57:37

End Time:

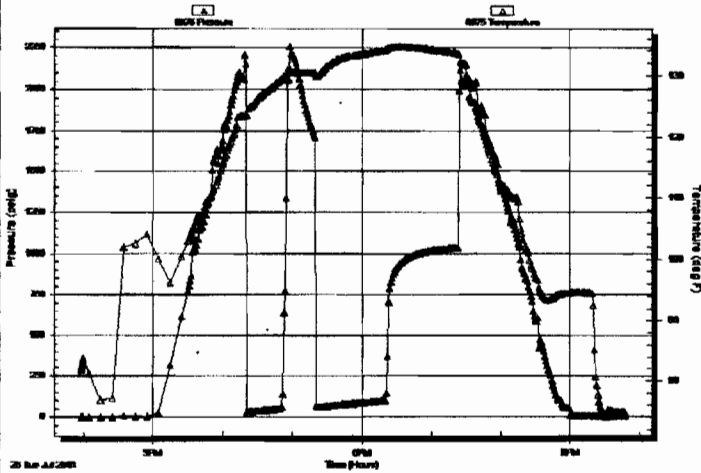
21:47:01

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1/4" blow built to 9"  
IS: No return. Tool slid about 3 feet.  
FF: BOB in 50 min.  
FS: No return.

Pressure vs. Time



### PRESSURE SUMMARY

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

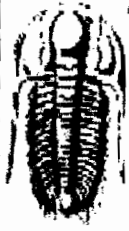
### Recovery

Length (ft)	Description	Volume (bbl)
63.00	mcw 80%w 20%m	0.60
63.00	ocmw 5%o 75%w 20%m	0.88
31.00	ocw m 10%o 20%w 70%m	0.43
36.00	oil 100%o	0.50
0.00	63 weak GIF	0.00

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

### DRILL STEM TEST REPORT

Brehm Asset Management

20-18s-31w Scott, KS

11625 Custer Rd  
Frisco, Tx 75035

Inman Trust #1-20

Job Ticket: 65492      DST#: 3

ATTN: Dwight Brehn

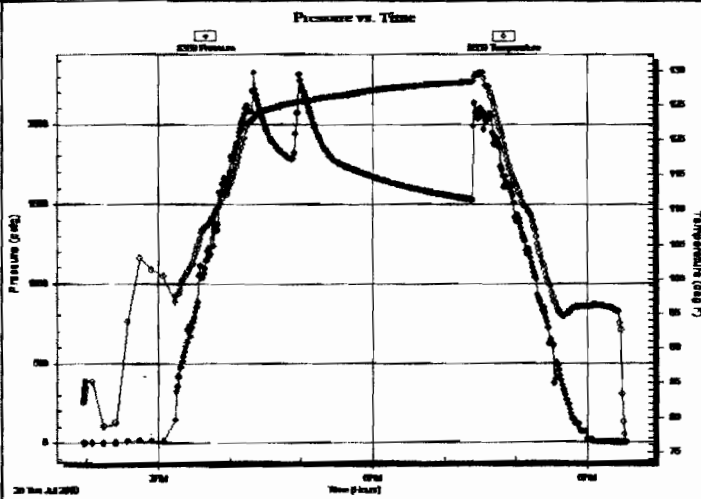
Test Start: 2016.07.26 @ 13:57:00

**GENERAL INFORMATION:**

Formation: **Marmaton**  
 Deviated: **No Whipstock:**                      **ft (KB)**  
 Test Type: **Conventional Bottom Hole (Reset)**  
 Time Tool Opened: **16:20:00**  
 Tester: **Brandon Turley**  
 Time Test Ended: **21:46:30**  
 Unit No: **79**  
 Interval: **4393.00 ft (KB) To 4407.00 ft (KB) (TVD)**  
 Reference Elevations: **2960.00 ft (KB)**  
**Total Depth:**                      **4710.00 ft (KB) (TVD)**  
    **2951.00 ft (CF)**  
**Hole Diameter:**                      **7.88 inches** Hole Condition: **Good**  
    **KB to GR/CF:**                      **9.00 ft**

**Serial #: 8369      Below (Straddle)**  
 Press@RunDepth:                      **psig @ 4704.00 ft (KB)**  
 Capacity:                                      **8000.00 psig**  
 Start Date:                                      **2016.07.26**      End Date:                                      **2016.07.26**  
 Last Calib.:                                      **2016.07.26**  
 Start Time:                                      **13:57:27**      End Time:                                      **21:32:51**  
 Time On Btm:                                      **Time Off Btm:**

**TEST COMMENT:** IF: 1/4" blow built to 9"  
 IS: No return. Tool slid about 3 feet.  
 FF: BOB in 50 min.  
 FS: No return.



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
63.00	mcw 80%w 20%m	0.60
63.00	ocmw 5%o 75%w 20%m	0.88
31.00	ocw m 10%o 20%w 70%m	0.43
36.00	oil 100%o	0.50
0.00	63 weak GFP	0.00

\* Recovery from multiple tests

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Brehm Asset Management

**20-18s-31w Scott, KS**

11625 Custer Rd  
Frisco, Tx 75035

**Inman Trust #1-20**

Job Ticket: 65492

DST#: 3

ATTN: Dwight Brehn

Test Start: 2016.07.26 @ 13:57:00

**Tool Information**

Drill Pipe:	Length: 4349.00 ft	Diameter: 3.80 inches	Volume: 61.01 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: 30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 61.16 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4393.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	317.00 ft			
Tool Length:	339.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4372.00	
Shut In Tool	5.00			4377.00	
Hydraulic tool	5.00			4382.00	
Safety Joint	2.00			4384.00	
Packer	5.00			4389.00	22.00 Bottom Of Top Packer
Packer	4.00			4393.00	
Stubb	1.00			4394.00	
Recorder	0.00	8875	Inside	4394.00	
Recorder	0.00	8166	Outside	4394.00	
Perforations	8.00			4402.00	
Blank Off Sub	1.00			4403.00	
Packer - Shale	4.00			4407.00	
Stubb	1.00			4408.00	
Perforations	10.00			4418.00	
Change Over Sub	1.00			4419.00	
Drill Pipe	285.00			4704.00	
Recorder	0.00	8369	Below	4704.00	
Change Over Sub	1.00			4705.00	
Bullnose	5.00			4710.00	317.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>339.00</b>				





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Brehm Asset Management

**20-18s-31w Scott,KS**

11625 Custer Rd  
Frisco, Tx 75035

**Inman Trust #1-20**

Job Ticket: 65492

**DST#: 3**

ATTN: Dwight Brehm

Test Start: 2016.07.26 @ 13:57:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API: 28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity: 24000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	mcw 80%w 20%m	0.601
63.00	ocmw 5%o 75%w 20%m	0.884
31.00	ocw m 10%o 20%w 70%m	0.435
36.00	oil 100%o	0.505
0.00	63 weak GIP	0.000

Total Length: 193.00 ft      Total Volume: 2.425 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .25@81=24000

30@80=28

Serial # 8166

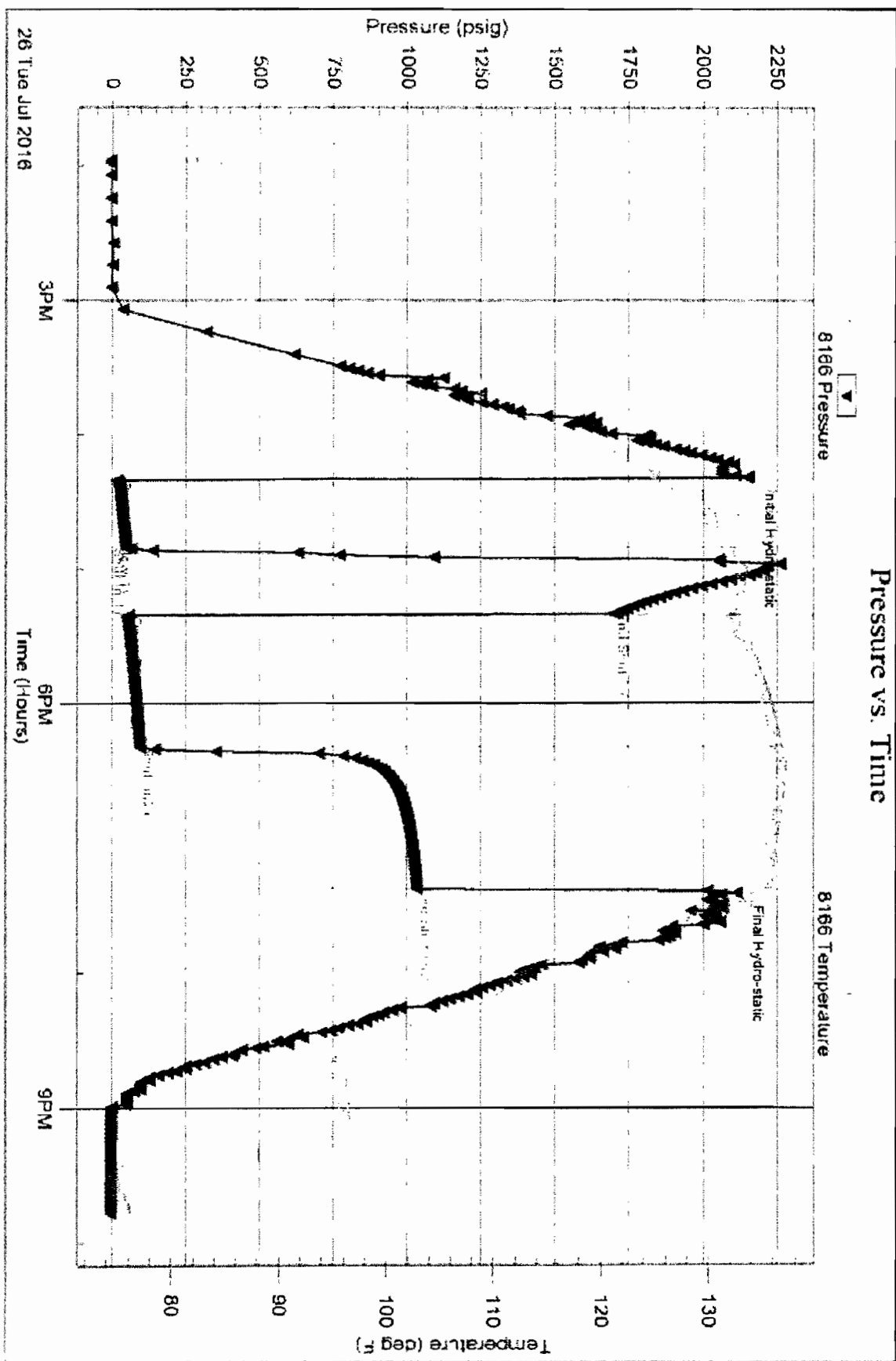
Outside

Behm Asset Management

Imman Trust #1-20

CST Test Number 3

### Pressure vs. Time



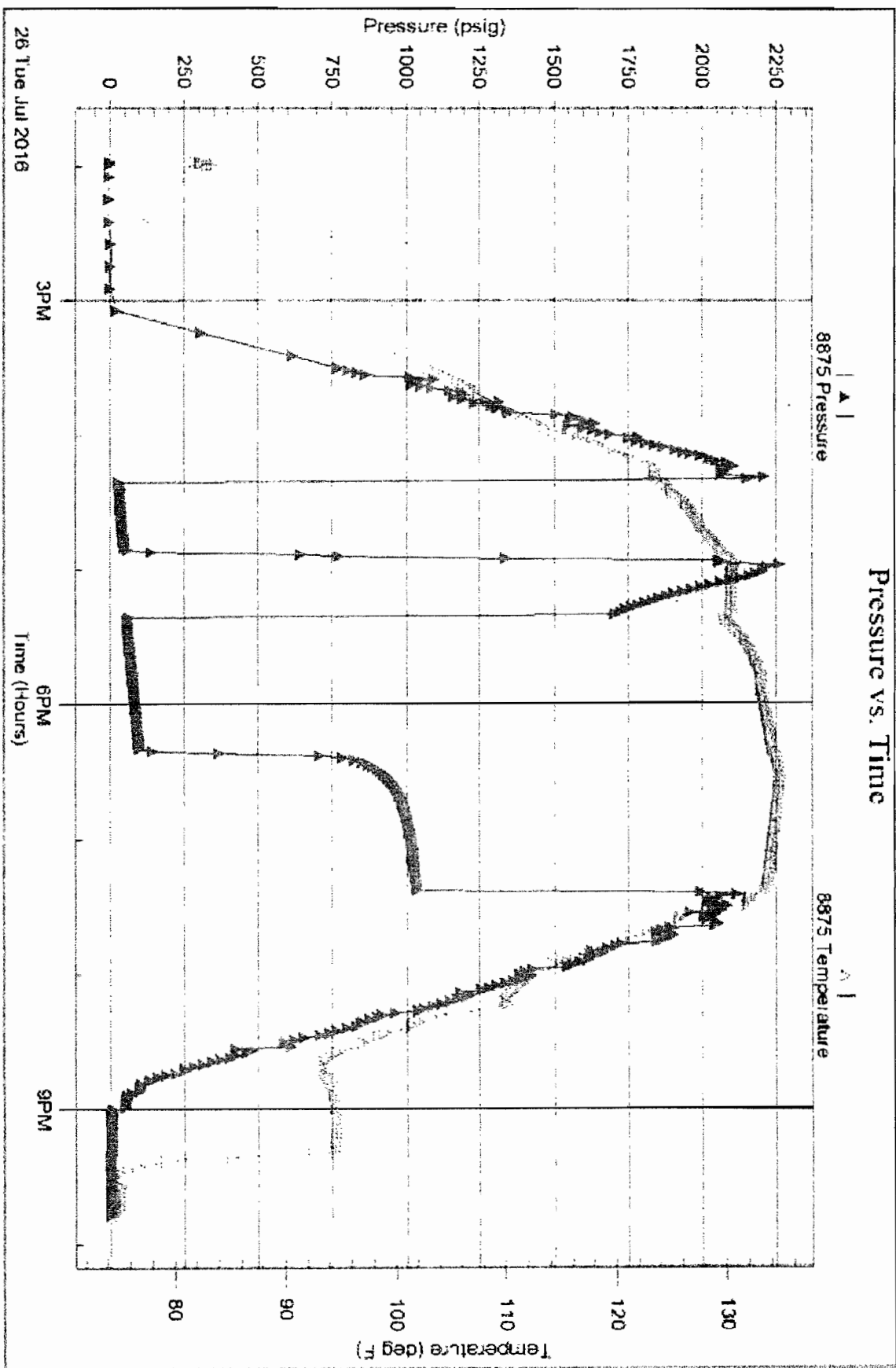
Serial # 8875

Inside

Equip. Asset Management

Insan Trust #1-20

OS Test Number 3



Trouble Testing, Inc

Ref No: 65492

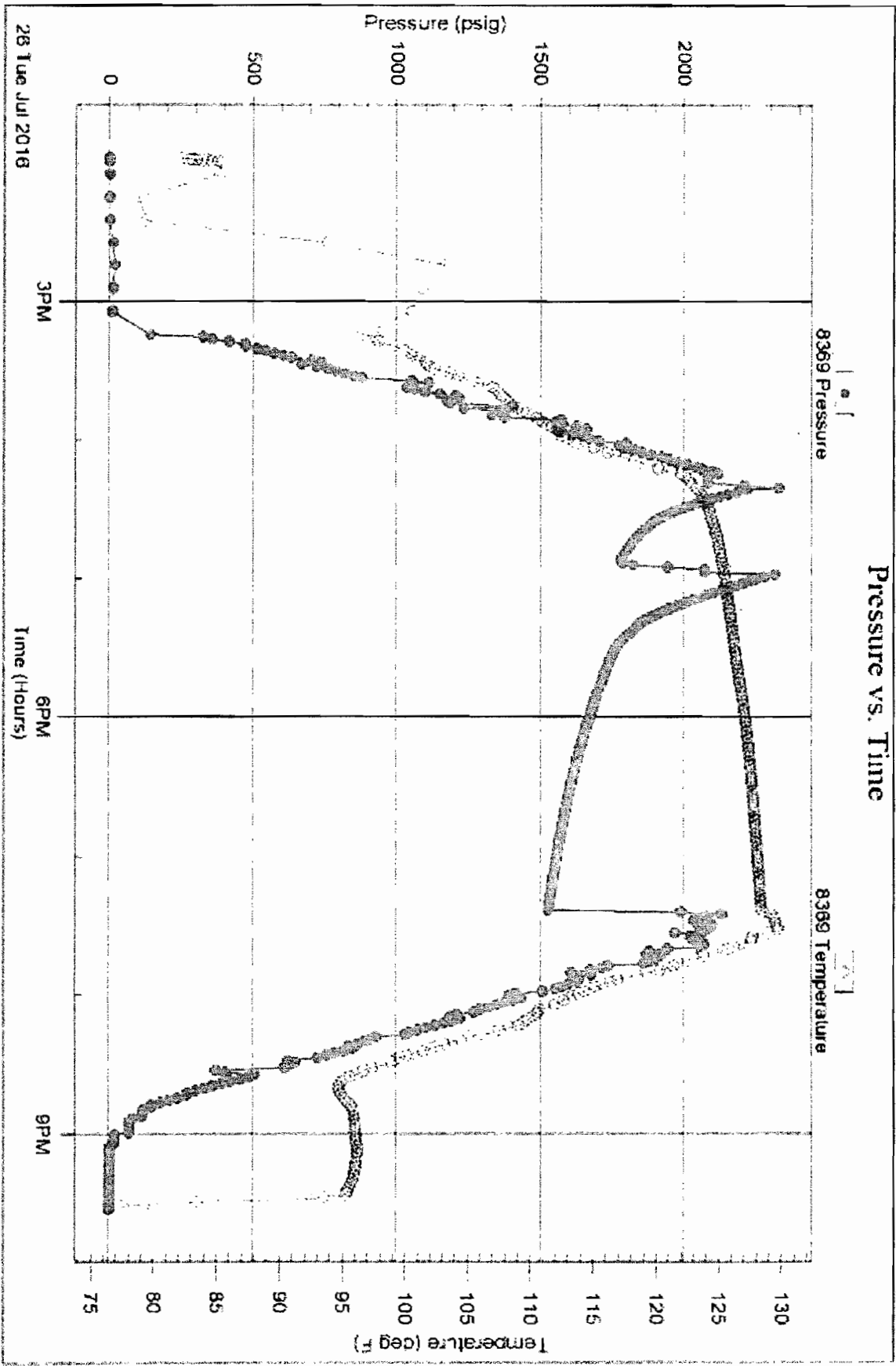
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Serial # 8369

Below (Str-Bottom) Asset Management

hman Trust #1-20

DST Test Number 3

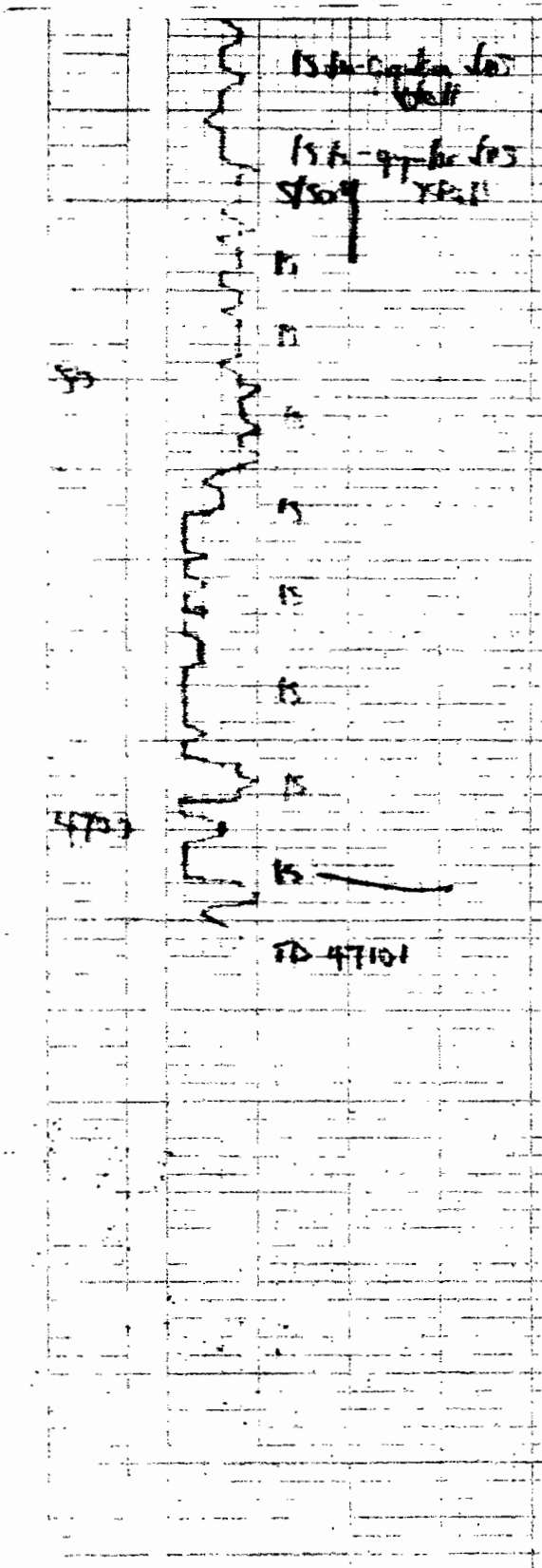


Triobate Testing, Inc

Ref No: 05492

Printed 2016 07 29 @ 14:56:10







# DUAL INDUCTION LOG

Company BREHM ASSET MANAGEMENT, LLC  
 Well INMAN TRUST NO. 1-20  
 Field EVA NORTHWEST  
 County SCOTT  
 State KANSAS

Company BREHM ASSET MANAGEMENT, LLC.  
 Well INMAN TRUST NO. 1-20  
 Field EVA NORTHWEST  
 County SCOTT State KANSAS

Location: API #: 15-171-21173-00-00  
 1,650' FSL & 660' FEL  
 SEC 20 TWP 18S RGE 31W  
 Permanent Datum GROUND LEVEL Elevation 1950'  
 Log Measured From KELLY BUSHING  
 Drilling Measured From KELLY BUSHING  
 Other Services  
 CNL/CDL  
 MEL  
 Elevation  
 K.B. 1960'  
 D.F. N/A  
 G.L. 1950'

Date	7/26/2016
Run Number	ONE
Depth Driller	4710'
Depth Logger	4708'
Bottom Logged Interval	4707'
Top Log Interval	350'
Casing Driller	8.625" @ 349'
Casing Logger	348'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	1000
Density / Viscosity	8.9 48
pH / Fluid Loss	8.5 8.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	1.18 @ 79
Rmt @ Meas. Temp	.89 @ 79
Rmc @ Meas. Temp	1.59 @ 79
Source of Rmf / Rmc	CHARTS
Rm @ BHT	.76 @ 123
Operating Rig Time	2 1/2 HOURS
Max Rec. Temp. F	123
Equipment Number	108
Location	COLBY
Recorded By	J. LONG
Witnessed By	DWIGHT BREHM

<<< 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.  
 SCOTT CITY, 8 EAST TO TAOS ROAD, 3/4 SOUTH, WEST INTO

Log Measured From: KELLY BUSHING      10 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. LONG	Primary Witness: DWIGHT BREHM
Operator: M. HISS	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

# Log Variables

DatabaseC:\ProgramData\Warrior\Data\brehmassetmanagement\_inmantrust\_1-20.db  
Dataset field/well/stackmel/pass4.1/\_vars\_

## Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	123	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	-280	79	Off	4708

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: brehmassementmanagement\_inmantrust\_1-20.db: field/well/stackmel/pass1  
 Total length: 43.08 ft  
 Total weight: 685.00 lb  
 O.D.: 4.00 in



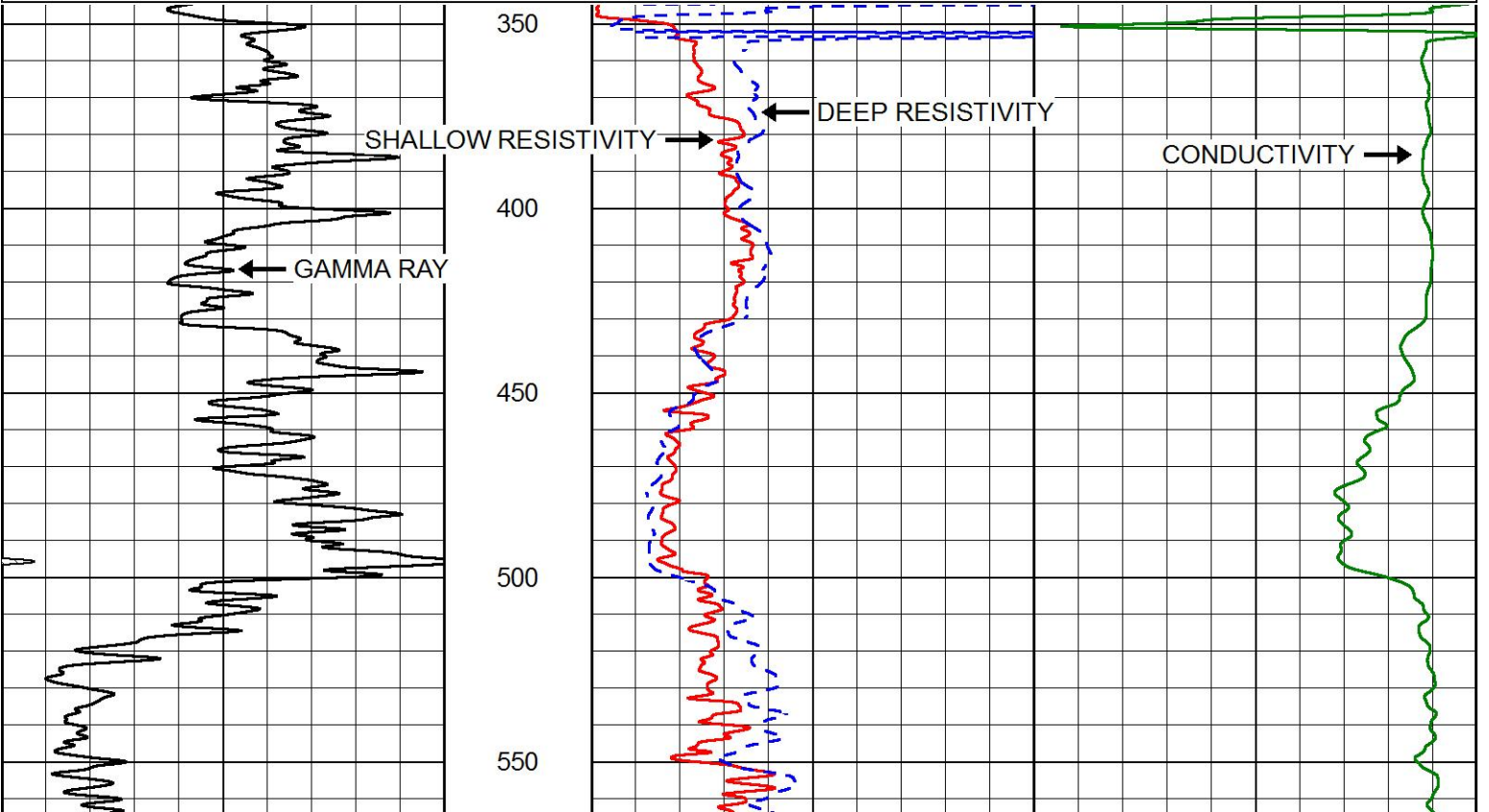
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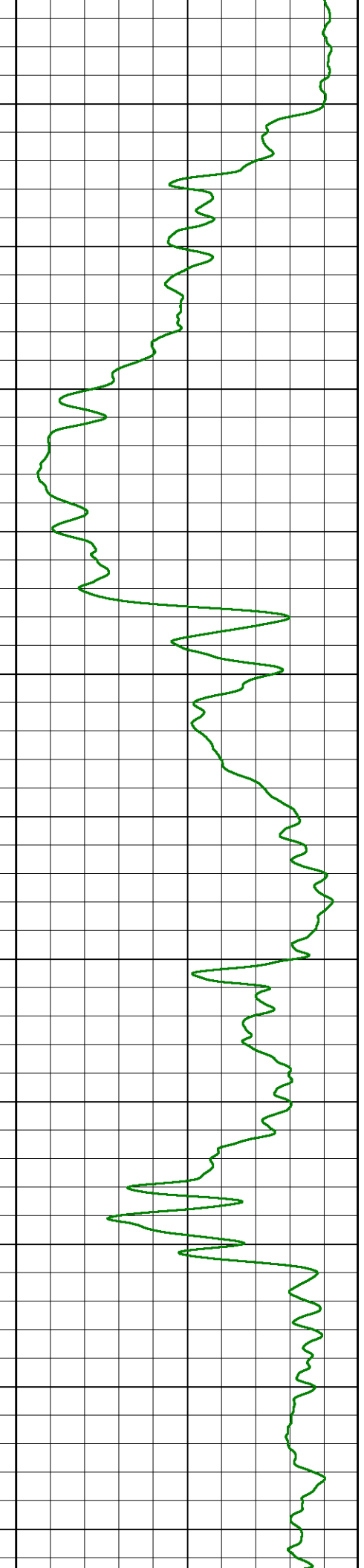
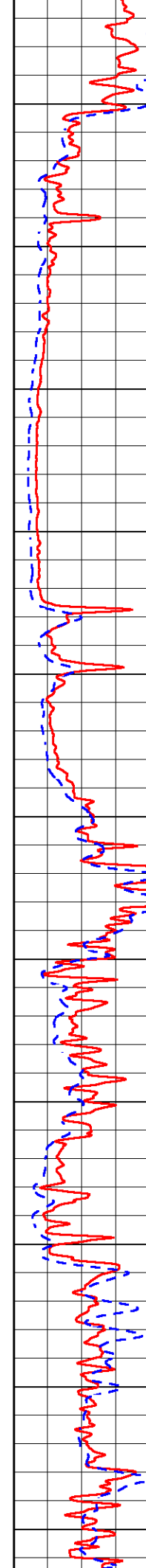
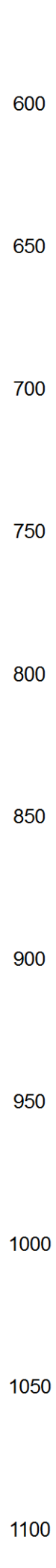
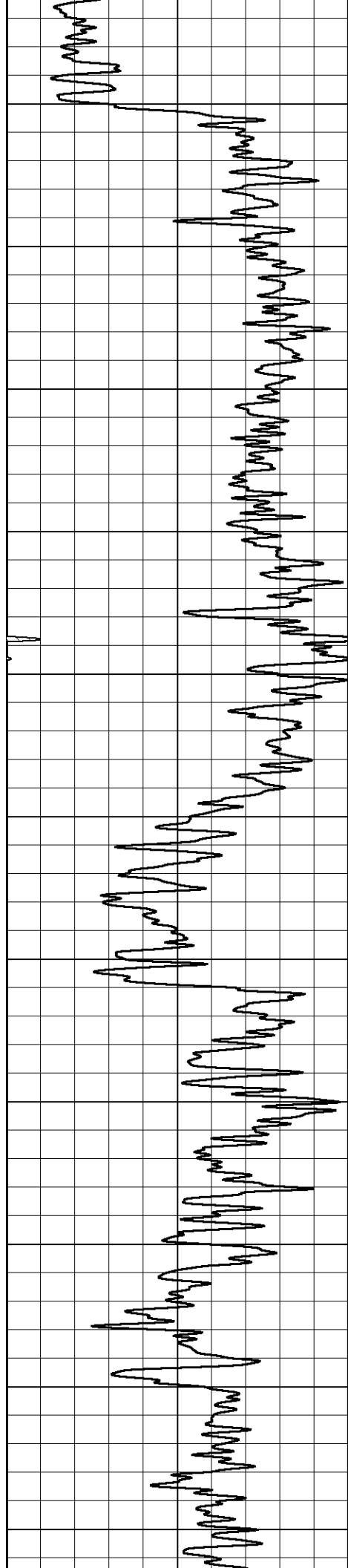
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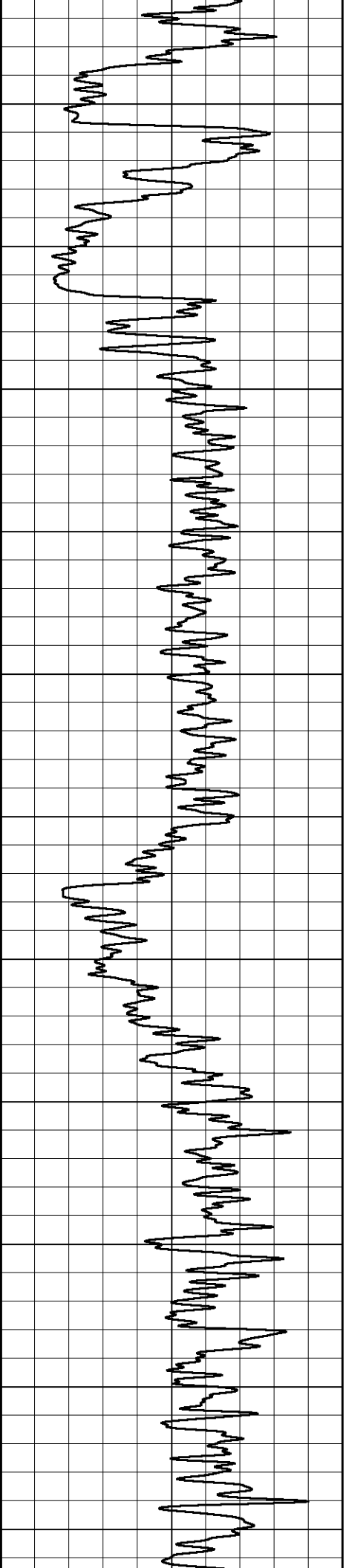
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 Dataset Pathname stackmel/pass4.2  
 Presentation Format dil2in  
 Dataset Creation Tue Jul 26 12:53:58 2016  
 Charted by Depth in Feet scaled 1:600

0 GAMMA RAY (GAPI) 150 1000 CONDUCTIVITY (mmho/m) 0

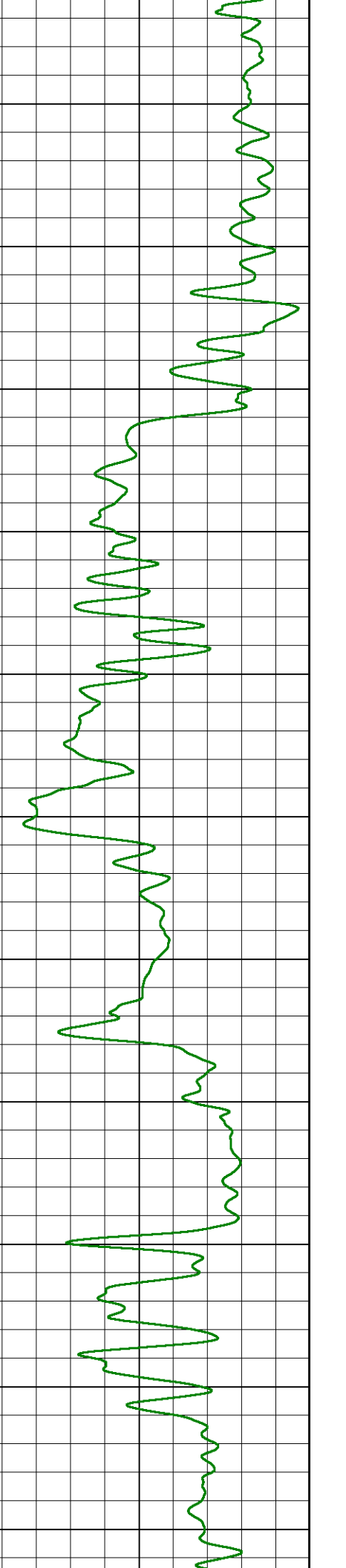
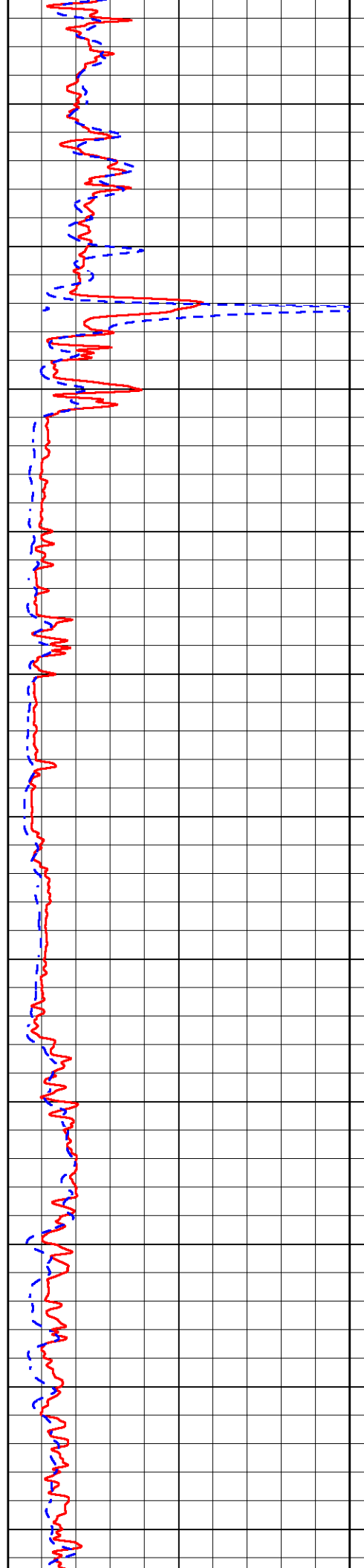
SHALLOW RESISTIVITY		
0	(Ohm-m)	50
DEEP RESISTIVITY (Ohm-m) 50		
SHALLOW RESISTIVITY		
50	(Ohm-m)	500
DEEP RESISTIVITY		
50	(Ohm-m)	500

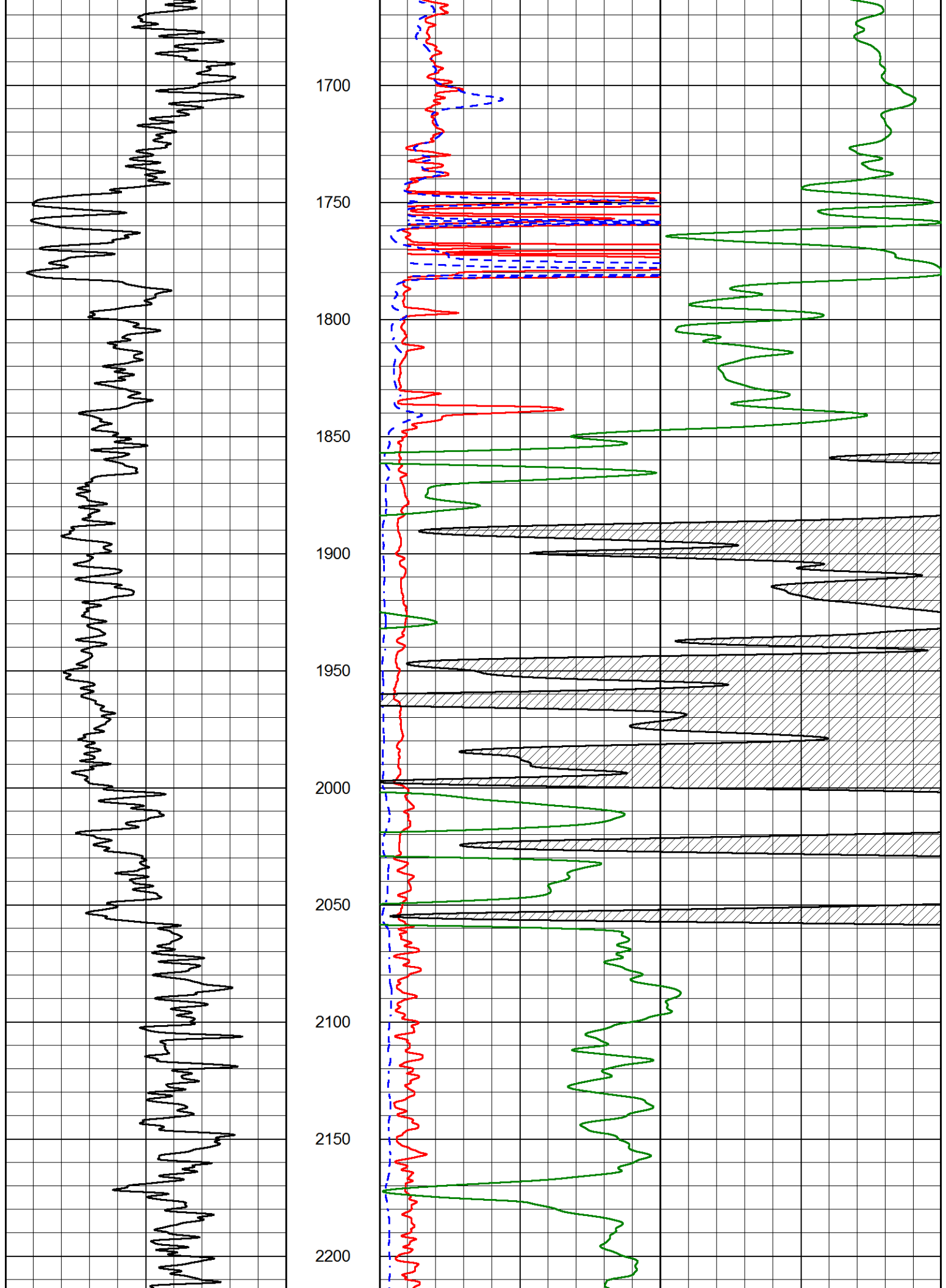


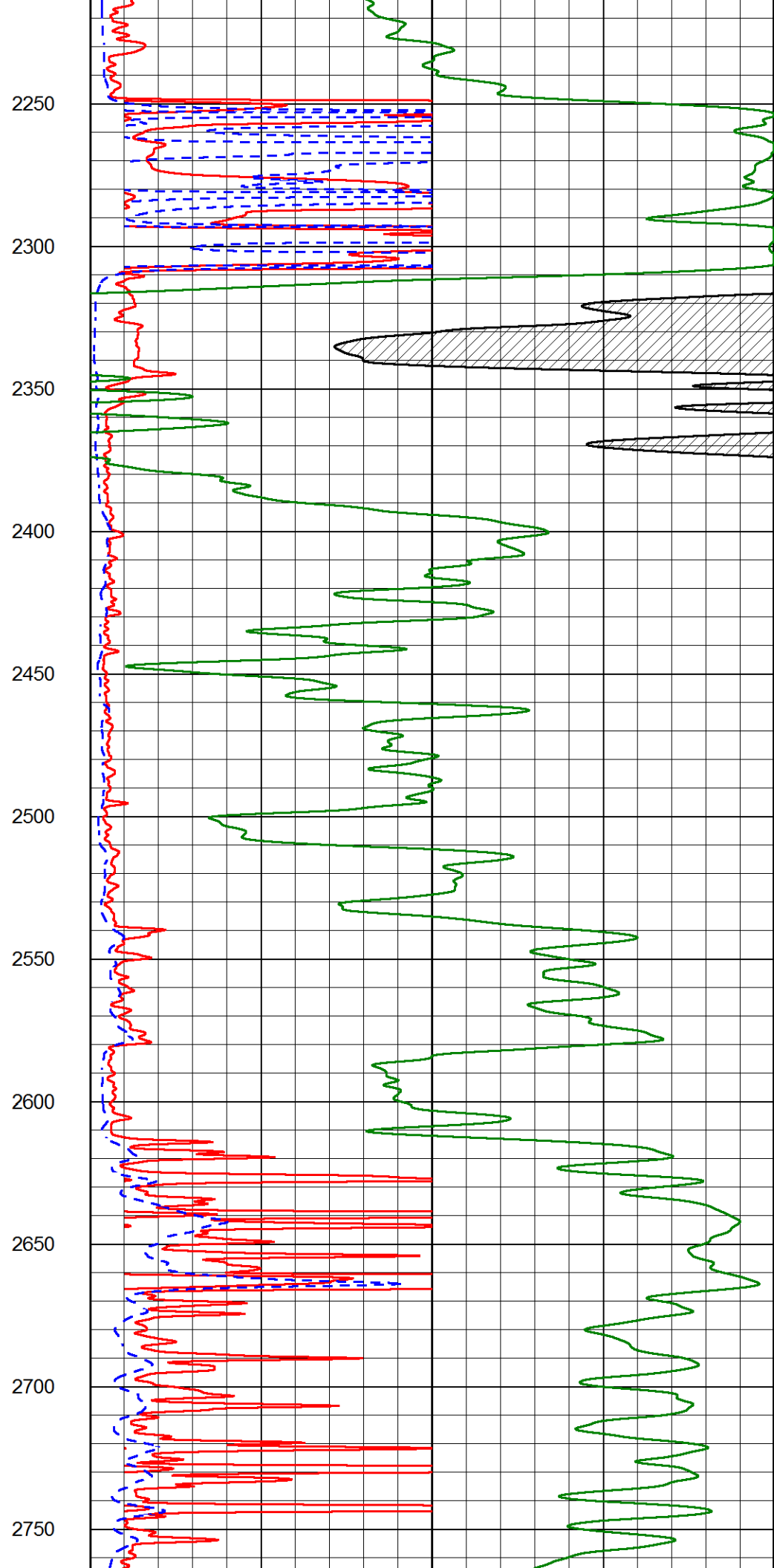
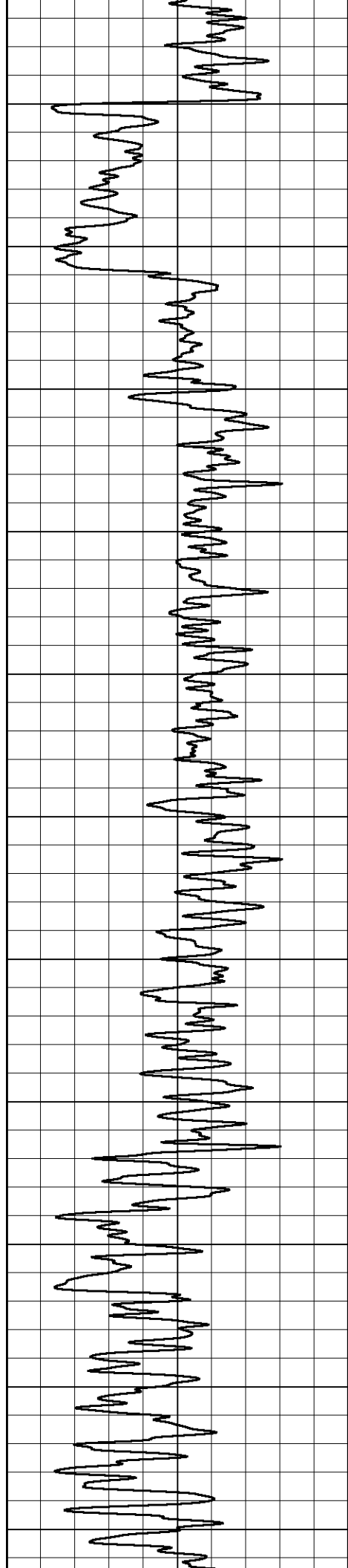


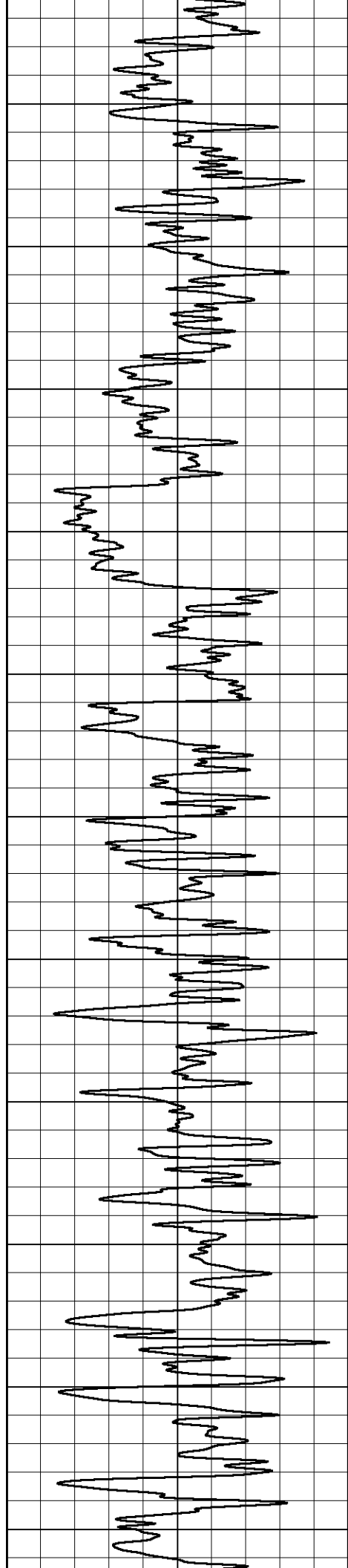


1150  
1200  
1250  
1300  
1350  
1400  
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1600  
1650

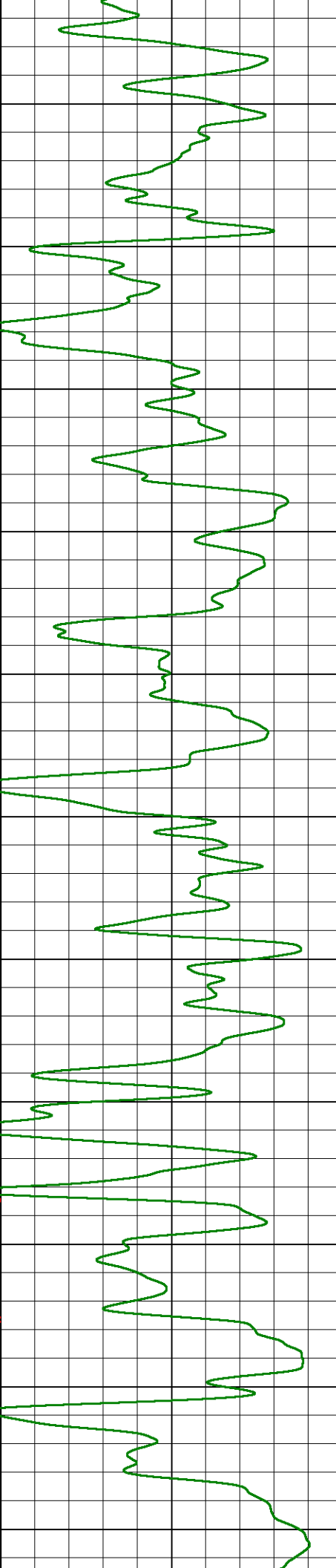
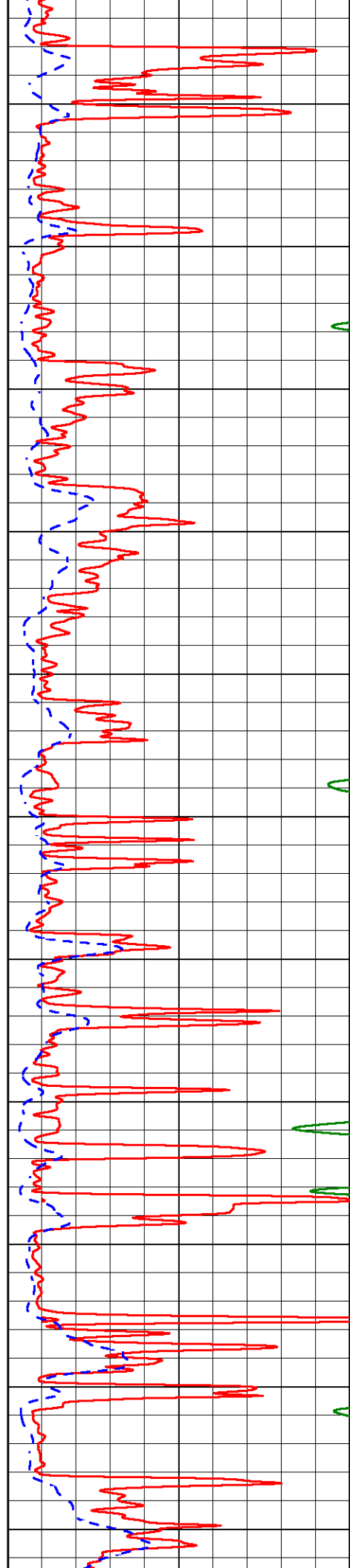


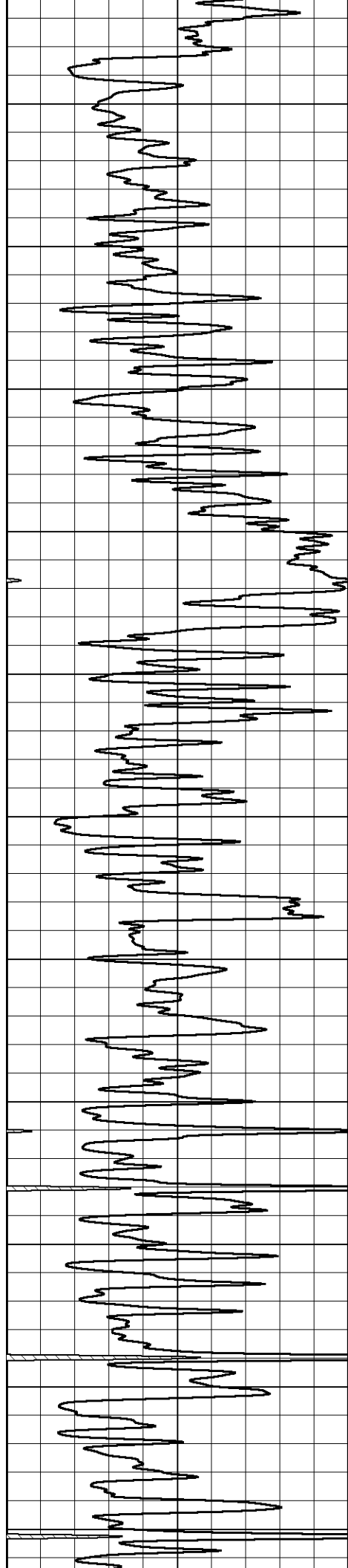






2800  
2850  
2900  
2950  
3000  
3050  
3100  
3150  
3200  
3250  
3300





3350

3400

3450

3500

3550

3600

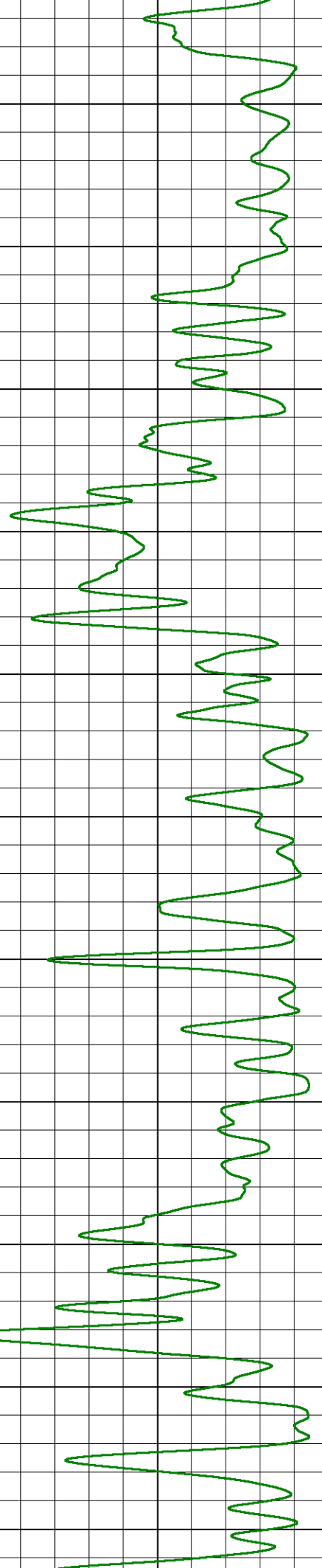
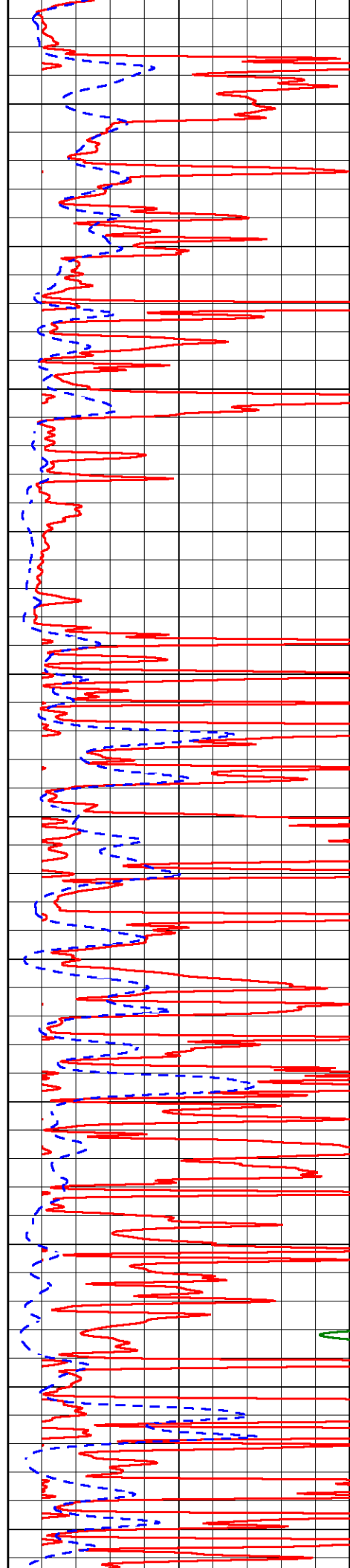
3650

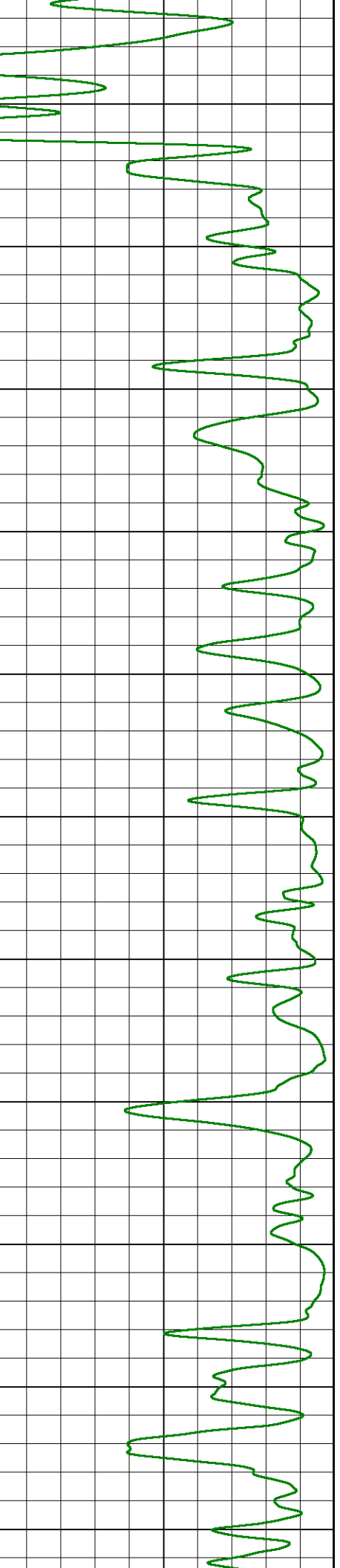
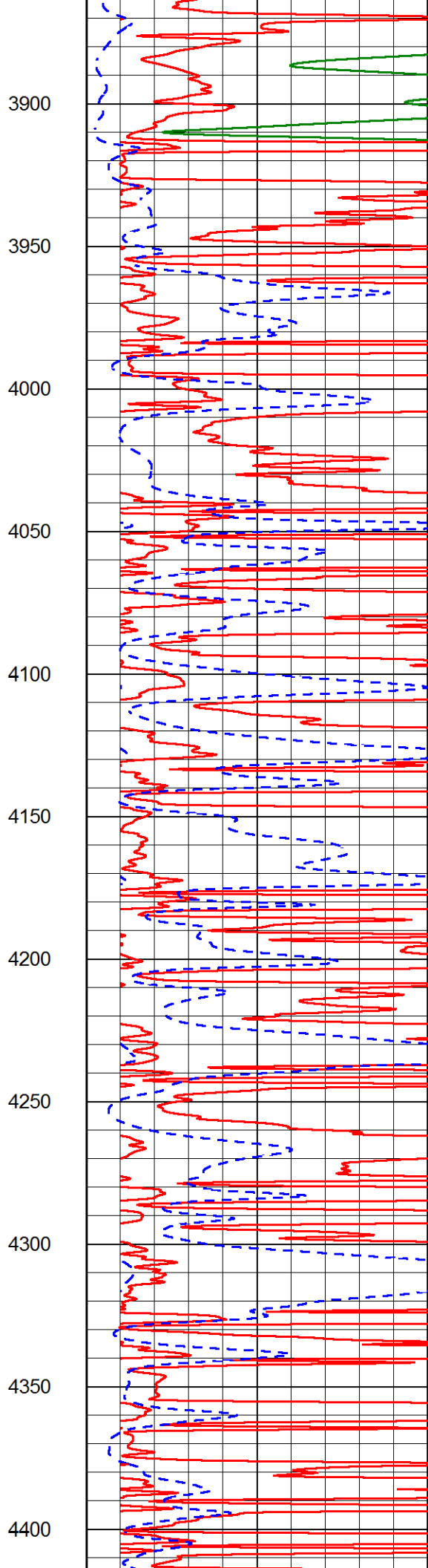
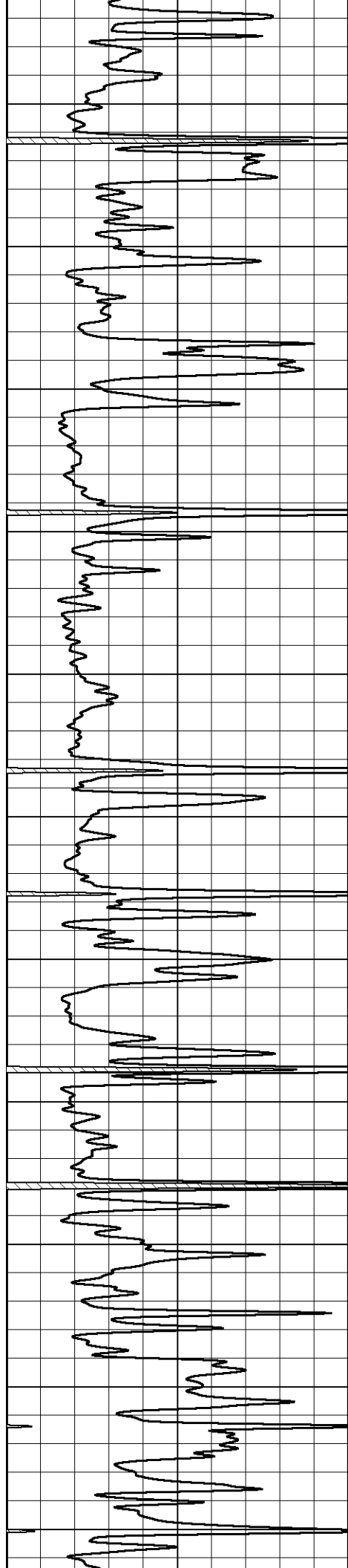
3700

3750

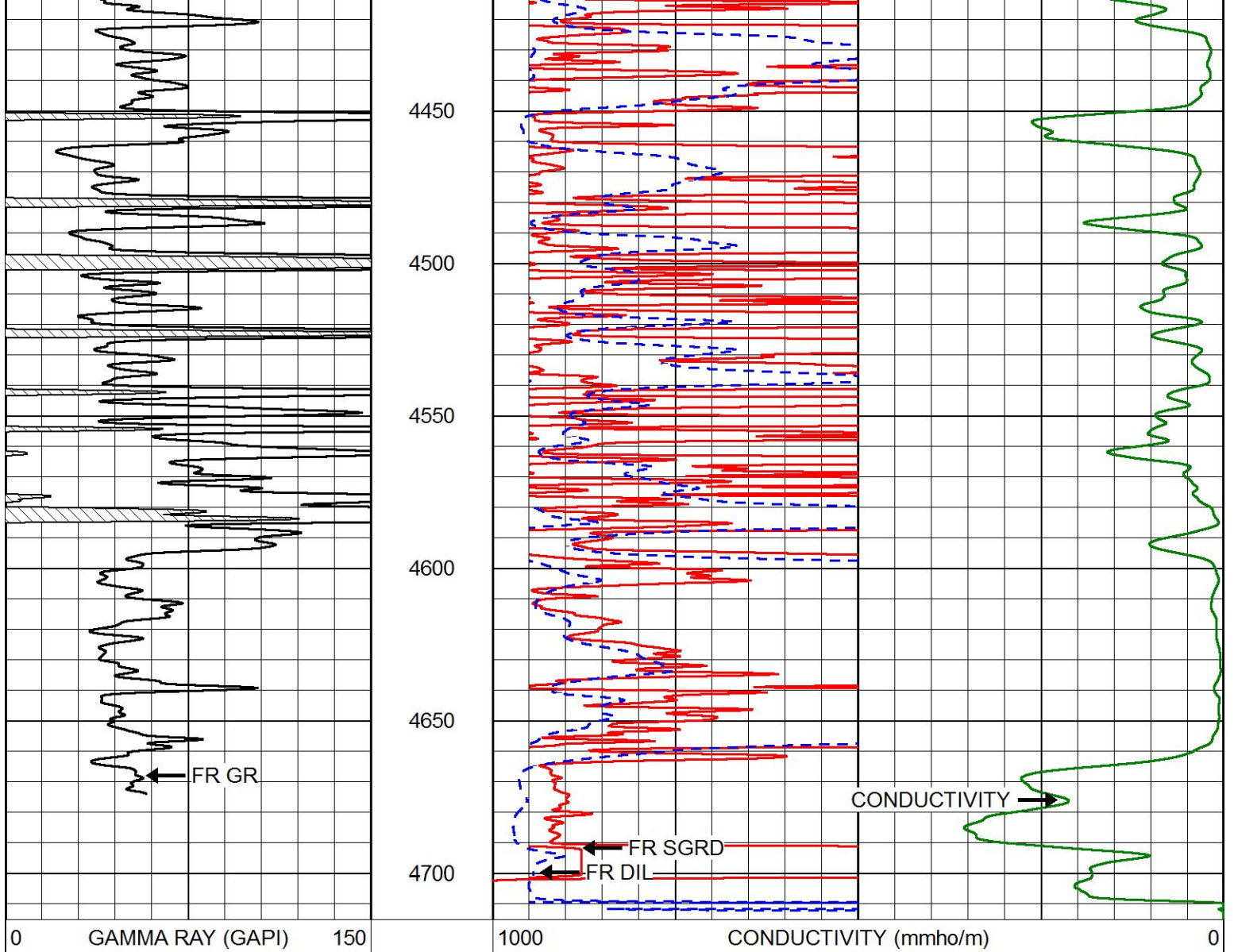
3800

3850









SHALLOW RESISTIVITY		
0	(Ohm-m)	50
DEEP RESISTIVITY (Ohm-m) 50		
SHALLOW RESISTIVITY		
50	(Ohm-m)	500
DEEP RESISTIVITY		
50	(Ohm-m)	500



**MAIN PASS**  
**ANHYDRITE SECTION**

Database File	brehmassetmanagement_inmantrust_1-20.db
Dataset Pathname	stackmel/pass4.4
Presentation Format	dil
Dataset Creation	Tue Jul 26 13:07:54 2016
Charted by	Depth in Feet scaled 1:240

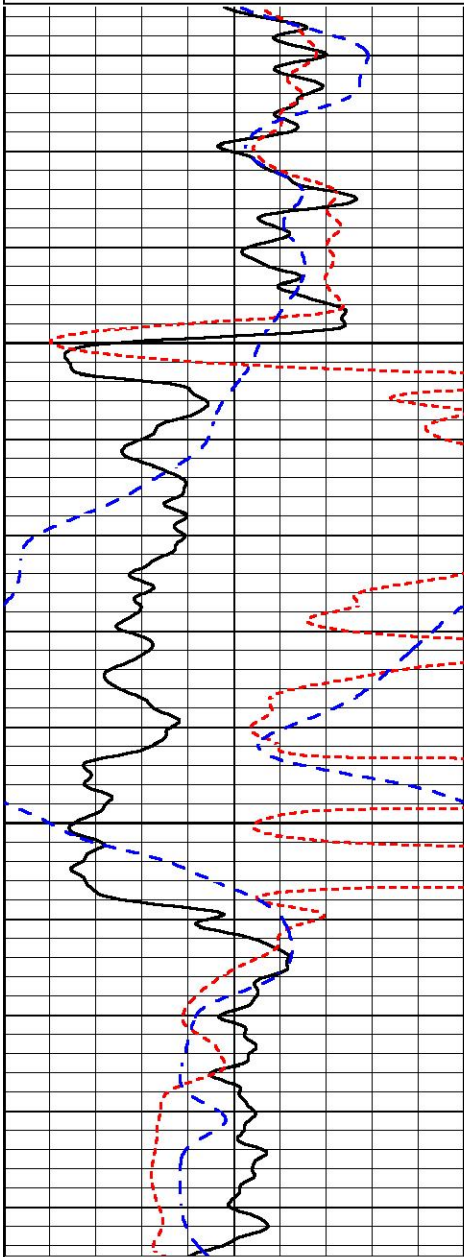
0	GAMMA RAY (GAPI)	150	0.2	DEEP RESISTIVITY (Ohm-m)	2000
-160	RXORT	40	0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
-200	SP (mV)	0	0.2	SHALLOW RESISTIVITY (Ohm-m)	2000

15000

LINE TENSION (lb)

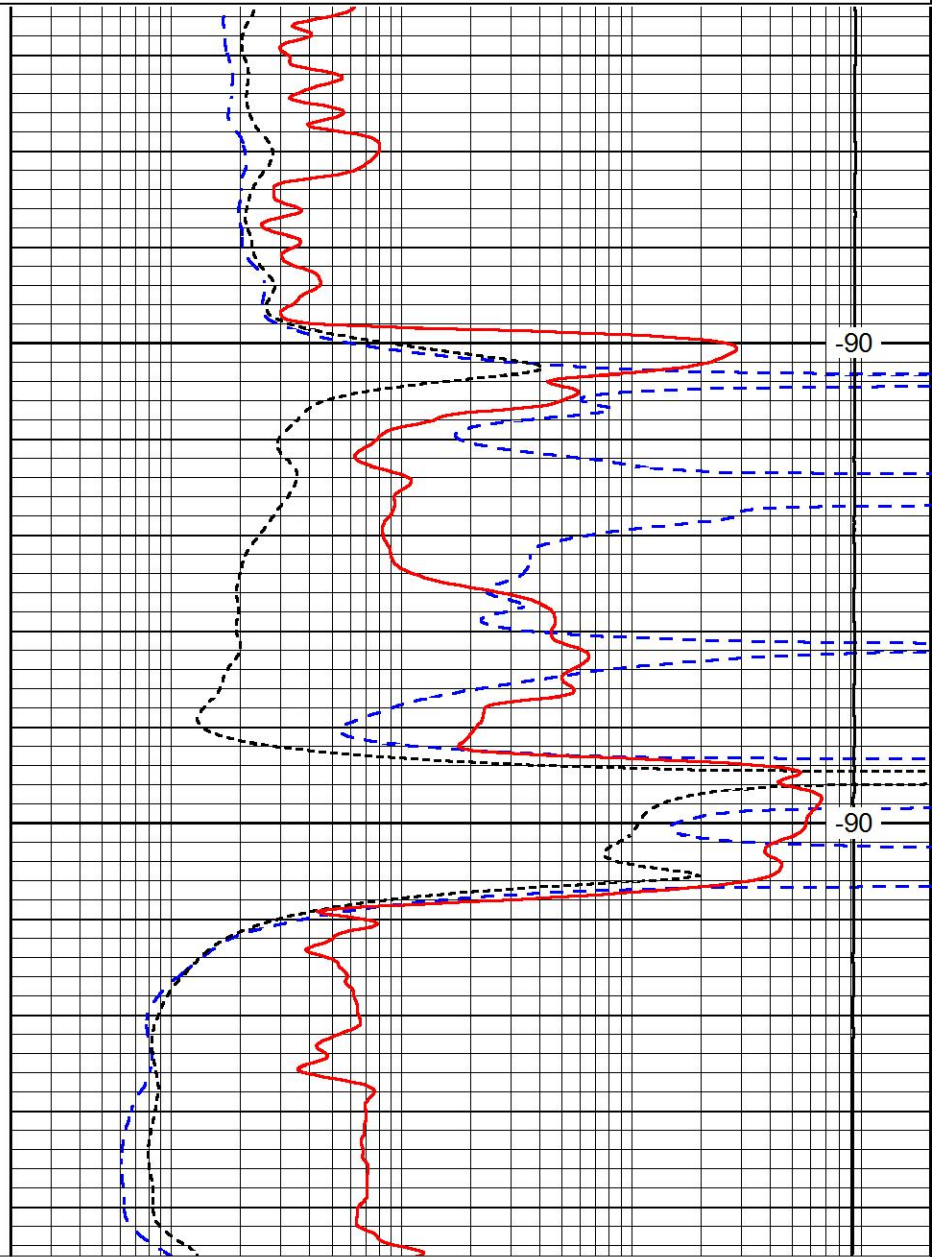
0

LINE SPEED  
(ft/min)



2250

2300



-90

-90

0	GAMMA RAY (GAPI)	150
-160	RXORT	40
-200	SP (mV)	0

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

LINE SPEED  
(ft/min)



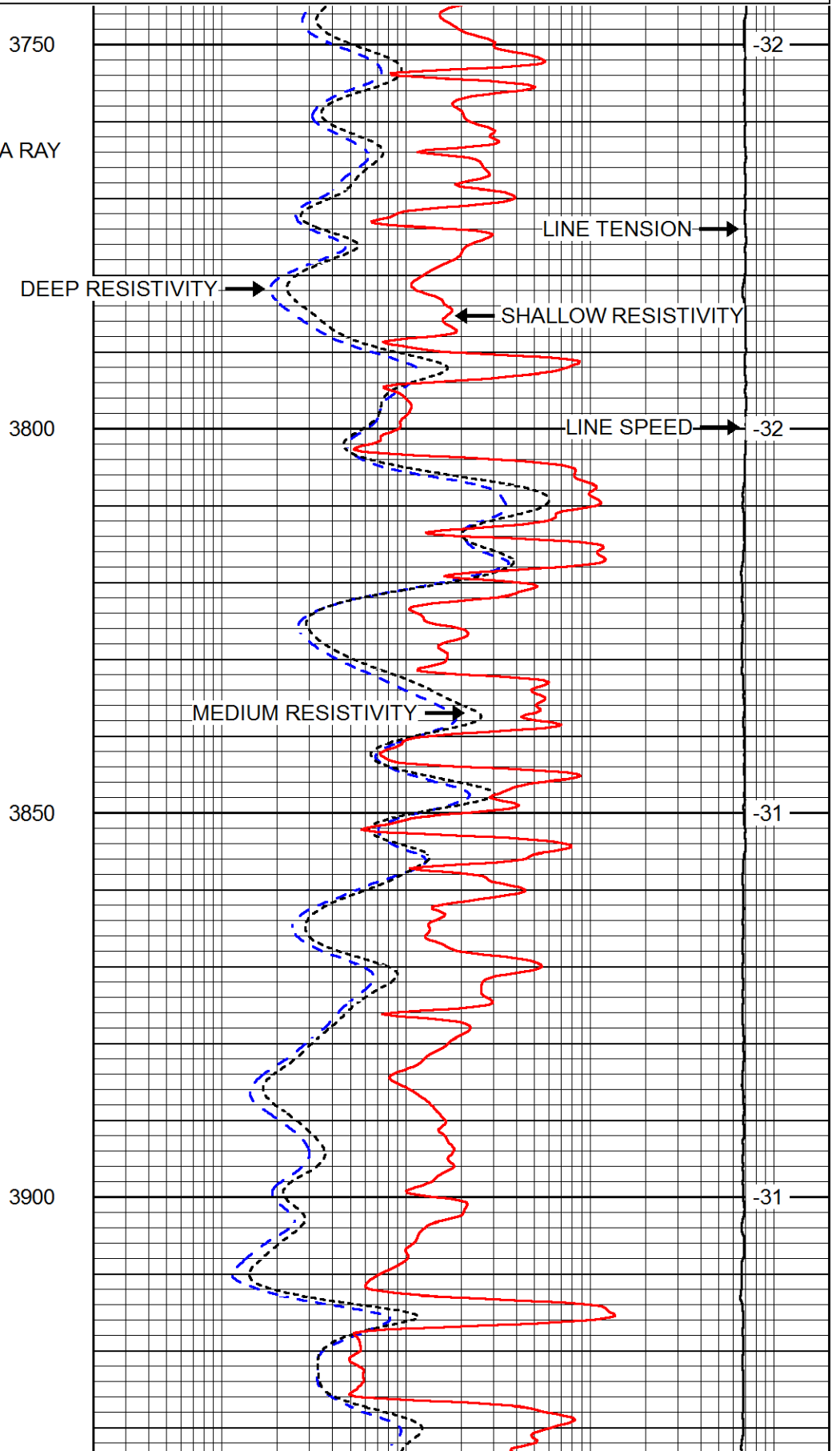
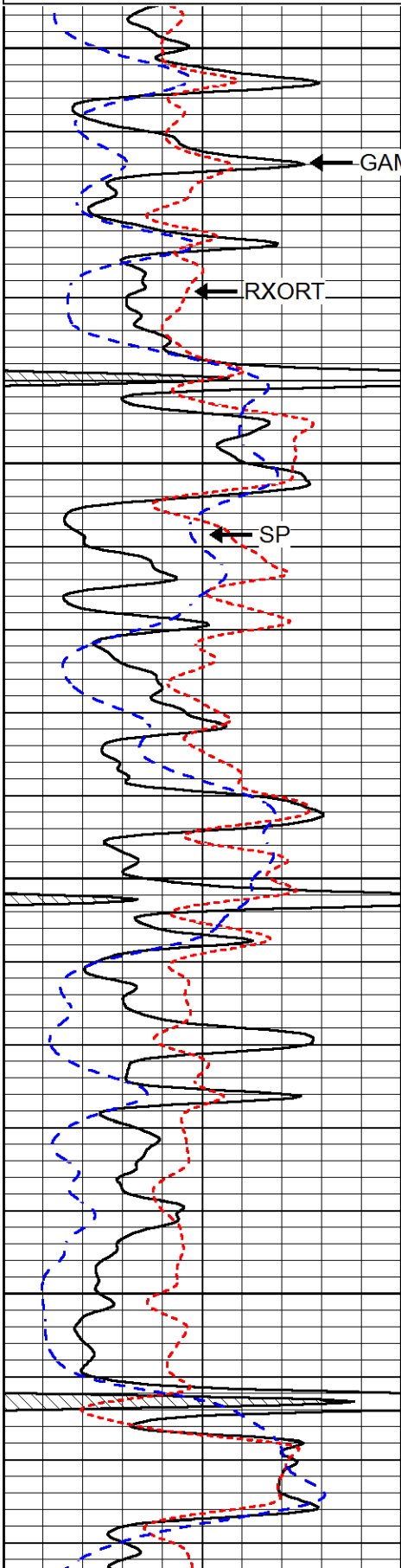
# MAIN PASS

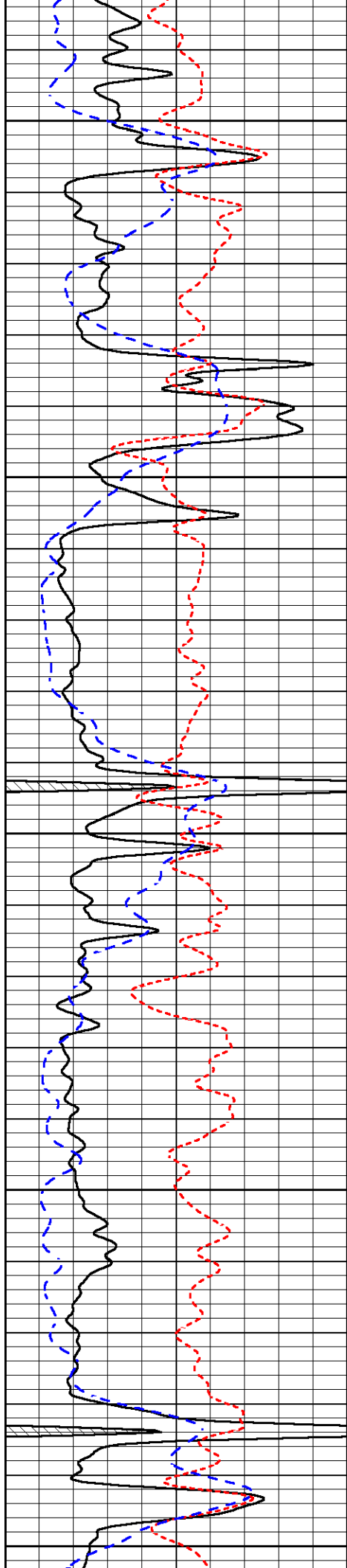
Database File      brehmassetmanagement\_inmantrust\_1-20.db  
 Dataset Pathname    stackmel/pass4.1  
 Presentation Format    dil  
 Dataset Creation      Tue Jul 26 12:11:42 2016  
 Charted by            Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-160	RXORT	40
-200	SP (mV)	0

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

LINE SPEED  
(ft/min)





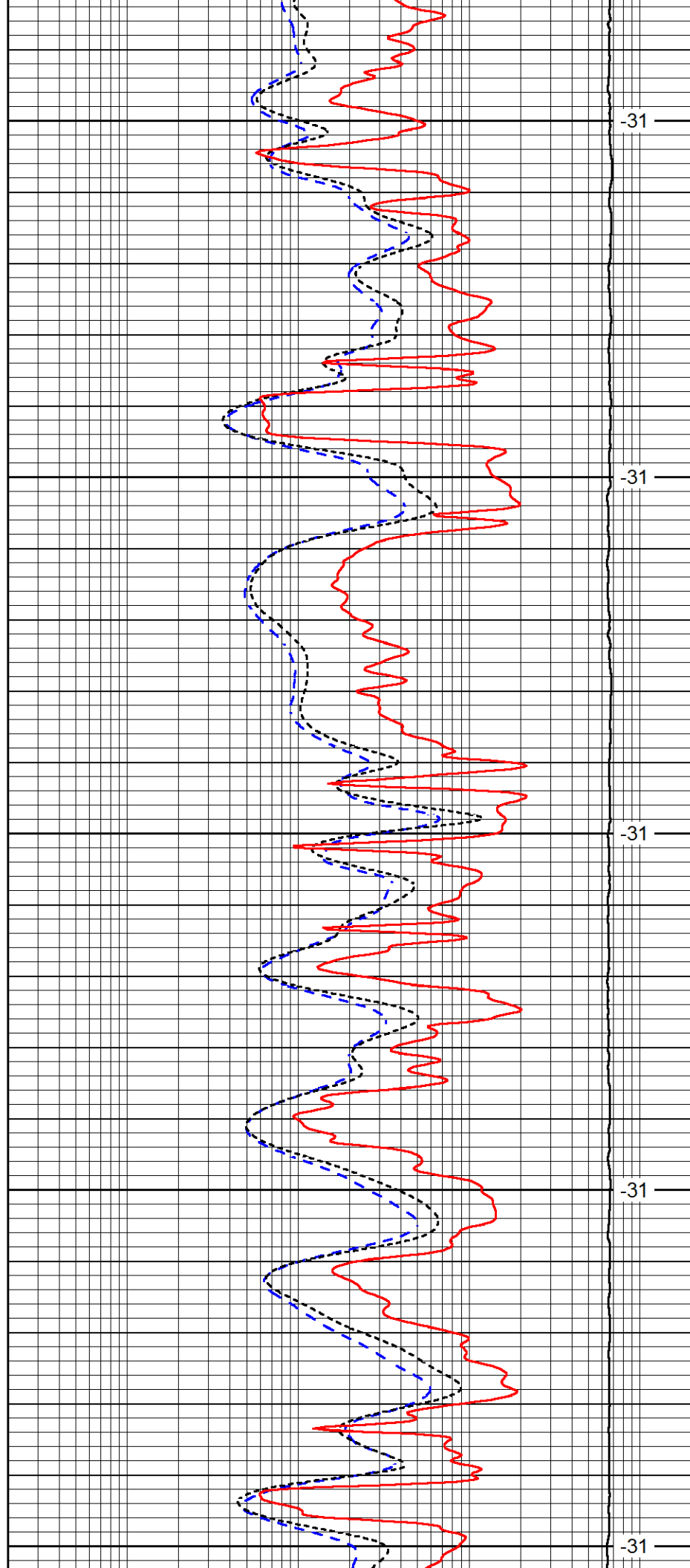
3950

4000

4050

4100

4150



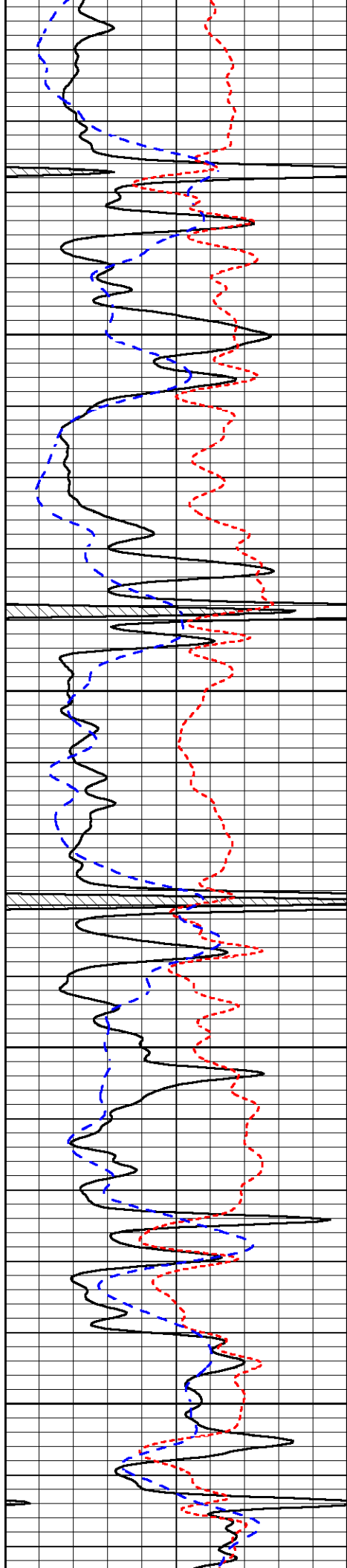
31

31

31

31

31

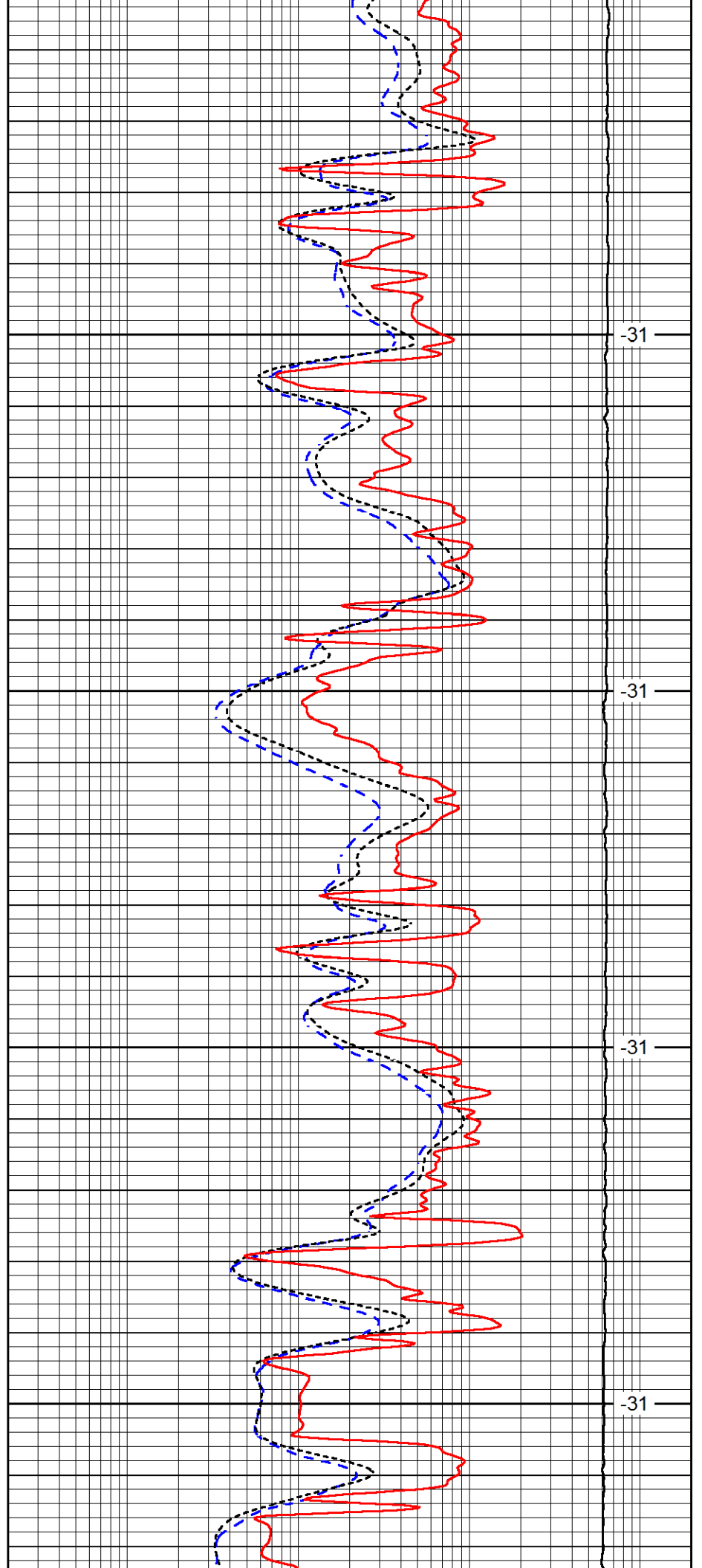


4200

4250

4300

4350

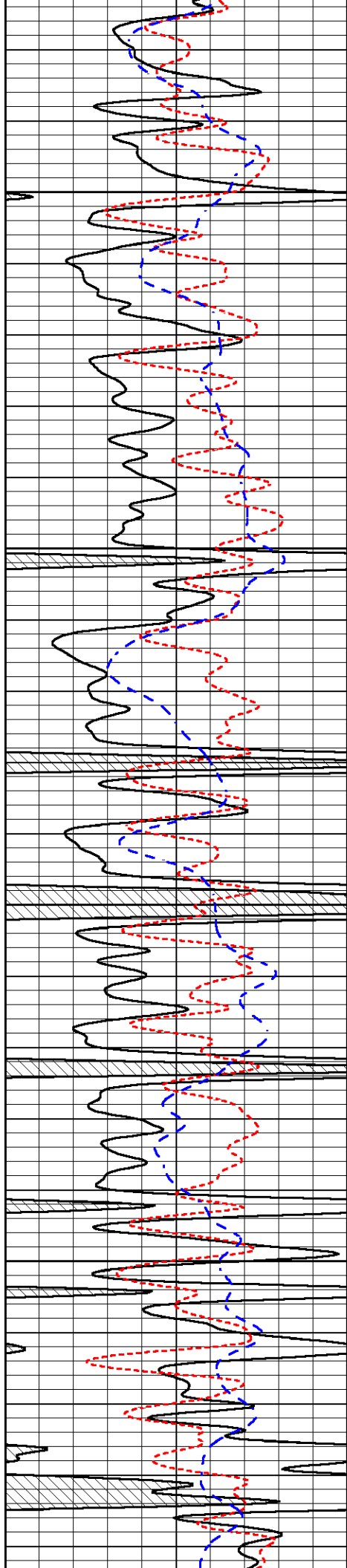


-31

-31

-31

-31

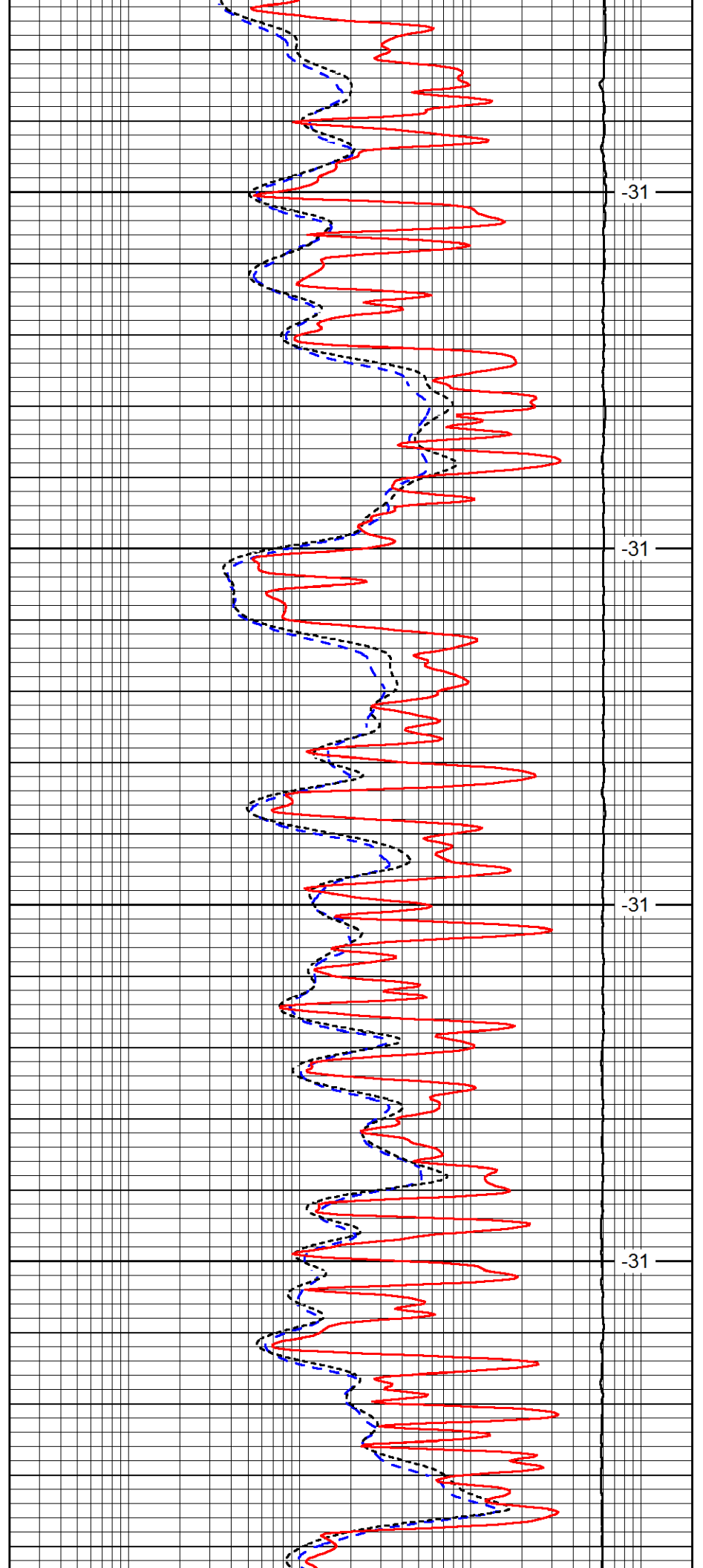


4400

4450

4500

4550

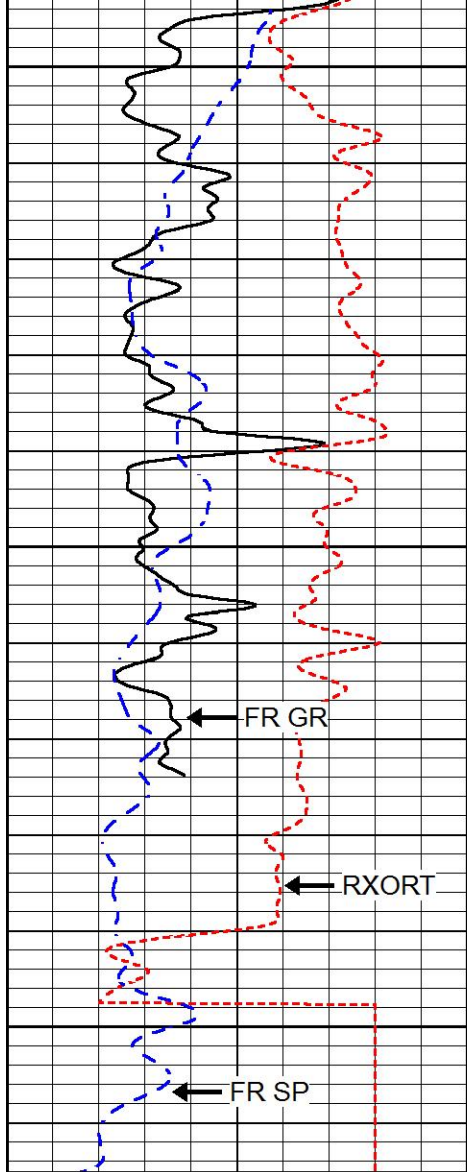


-31

-31

-31

-31



4600

4650

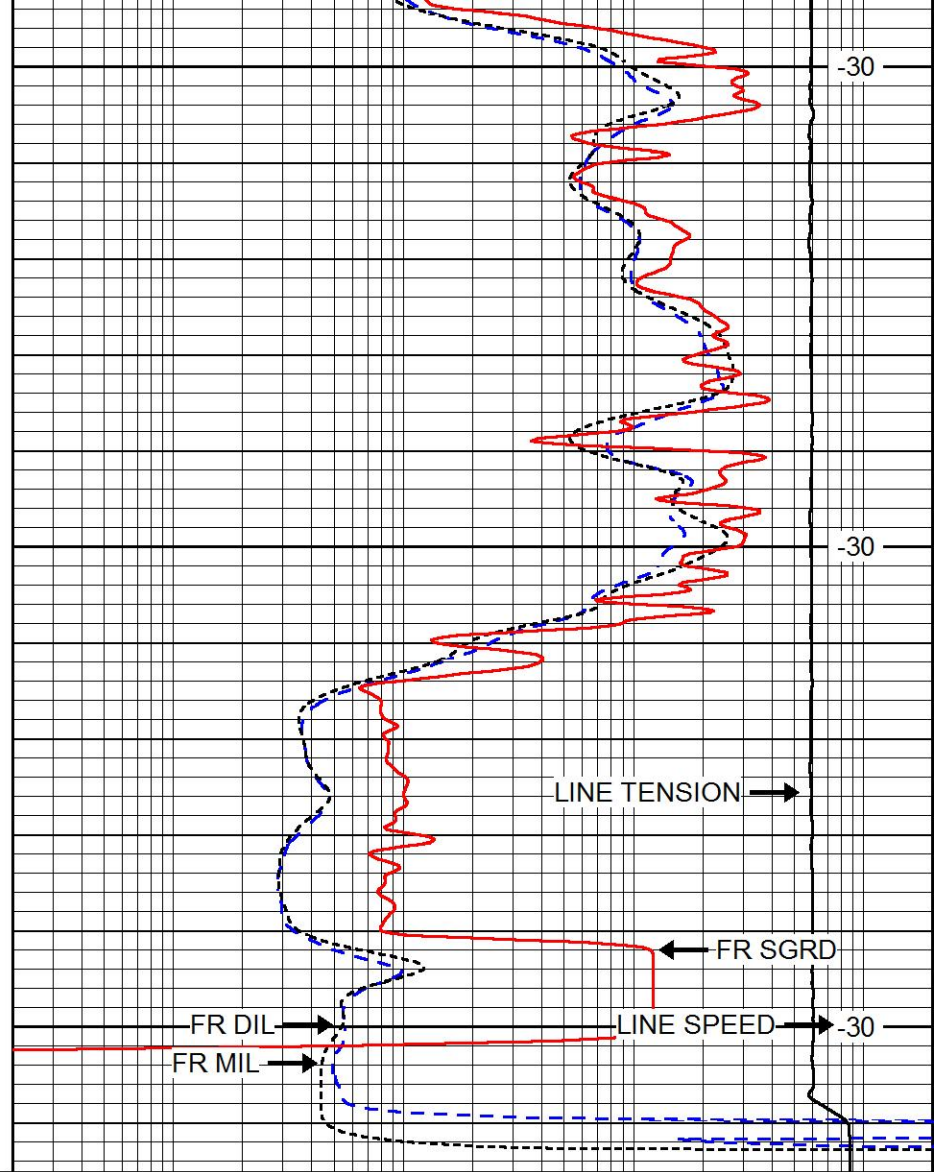
4700

FR GR

RXORT

FR SP

0	GAMMA RAY (GAPI)	150
-160	RXORT	40
-200	SP (mV)	0



-30

-30

-30

LINE TENSION

FR SGRD

FR DIL

FR MIL

LINE SPEED

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

LINE SPEED  
(ft/min)



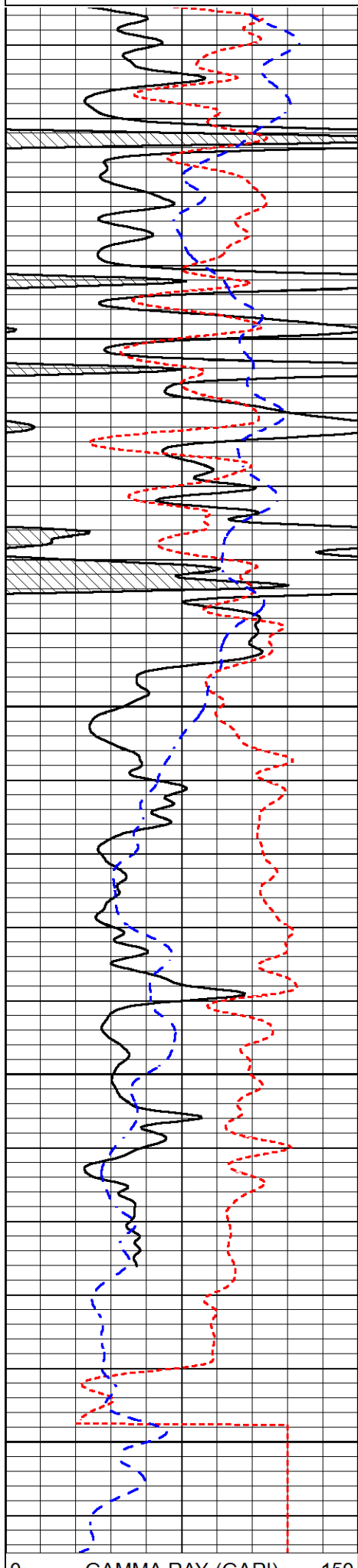
# REPEAT SECTION

Database File brehmassetmanagement\_inmantrust\_1-20.db  
 Dataset Pathname stackmel/pass2.1  
 Presentation Format dil  
 Dataset Creation Tue Jul 26 12:29:32 2016  
 Charted by Depth in Feet scaled 1:240

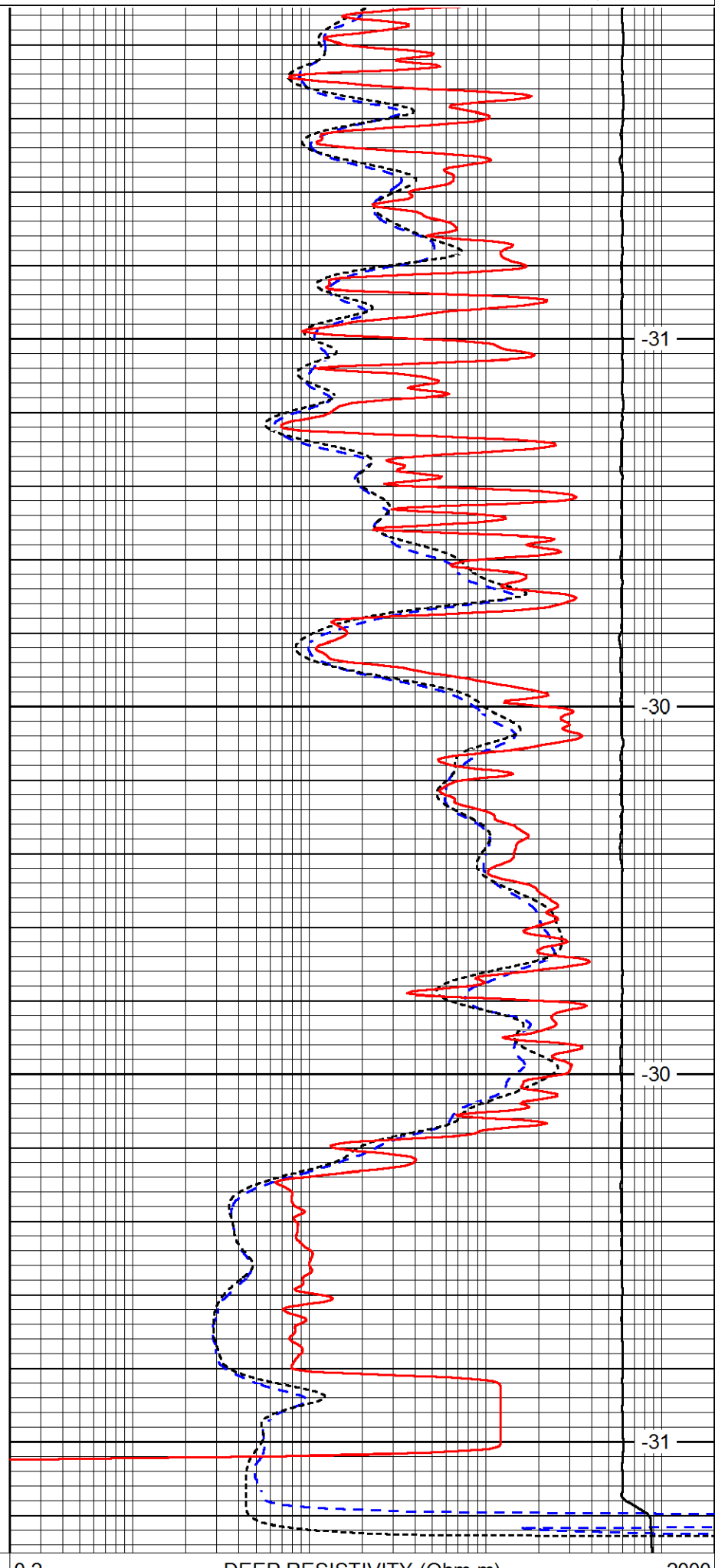
0	GAMMA RAY (GAPI)	150
-160	RXORT	40
-200	SP (mV)	0

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

LINE SPEED



4550  
4600  
4650  
4700



-31  
-30  
-30  
-31





Serial Number: tk10-MW  
Tool Model: M&W  
Calibration Performed: Wed July 20 08:04:05 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: Sun Jul 17 19:05:06 2016

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 BREHM ASSET MANAGEMENT, LLC.  
Well INMAN TRUST NO. 1-20  
Field EVA NORTHWEST  
County SCOTT  
State KANSAS



# DUAL COMP POROSITY LOG

Company BREHM ASSET MANAGEMENT, L  
 Well INMAN TRUST NO. 1-20  
 Field EVA NORTHWEST  
 County SCOTT  
 State KANSAS

Company BREHM ASSET MANAGEMENT, LLC.  
 Well INMAN TRUST NO. 1-20  
 Field EVA NORTHWEST  
 County SCOTT State KANSAS

Location: API #: 15-171-21173-00-00  
 1,650' FSL & 660' FEL  
 SEC 20 TWP 18S RGE 31W  
 Permanent Datum GROUND LEVEL Elevation 1950'  
 Log Measured From KELLY BUSHING  
 Drilling Measured From KELLY BUSHING  
 Other Services  
 DIL  
 MEL  
 Elevation  
 K.B. 1960'  
 D.F. N/A  
 G.L. 1950'

Date	7/26/2016	
Run Number	ONE	
Type Log	CNL/CDL	
Depth Driller	4710'	
Depth Logger	4708'	
Bottom Logged Interval	4680'	
Top Logged Interval	3750'	
Type Fluid In Hole	CHEMICAL	
Salinity, PPM CL	1000	
Density	8.9	
Level	FULL	
Max. Rec. Temp. F	123	
Operating Rig Time	2 1/2 HOURS	
Equipment -- Location	108 COLBY	
Recorded By	J. LONG	
Witnessed By	DWIGHT BREHM	

Borehole Record		Casing Record					
Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	00'	349'	8.625"	23#	00'	349'
TWO	7.875"	349'					

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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.  
 SCOTT CITY, 8 EAST TO TAOS ROAD, 3/4 SOUTH, WEST INTO

Log Measured From: KELLY BUSHING 10 Ft. Above Permanent Datum

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

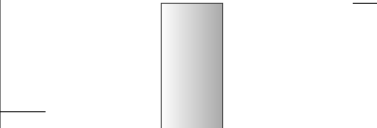
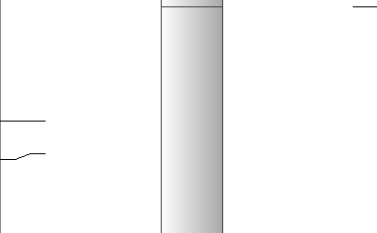
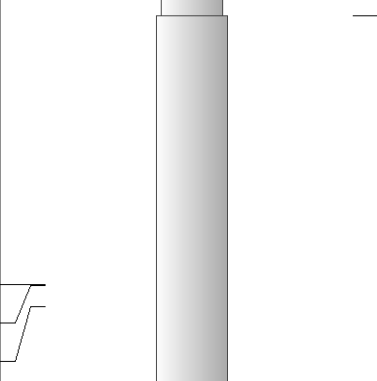
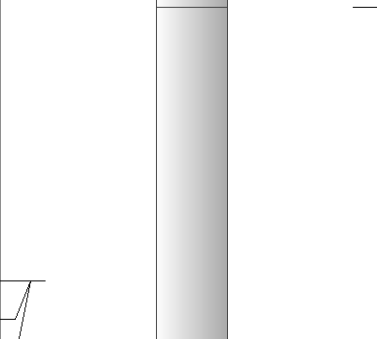
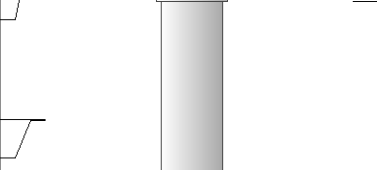
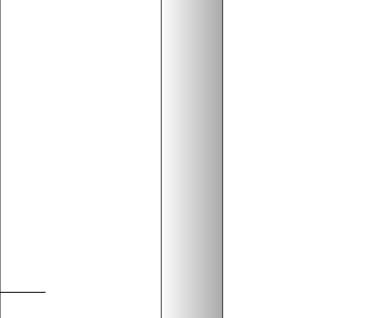
Your Pioneer Energy Services Crew Engineer: J. LONG Operator: M. HISS Operator: Operator:	This Log Record Was Witnessed By Primary Witness: DWIGHT BREHM Secondary Witness: Secondary Witness: Secondary Witness:
---	---

# Log Variables

DatabaseC:\ProgramData\Warrior\Data\brehmassetmanagement\_inmantrust\_1-20.db  
 Dataset field/well/stackmel/pass4.1/\_vars\_

## Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	123	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	-280	79	Off	4708

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: brehmassementmanagement\_inmantrust\_1-20.db: field/well/stackmel/pass1  
 Total length: 43.08 ft  
 Total weight: 685.00 lb  
 O.D.: 4.00 in



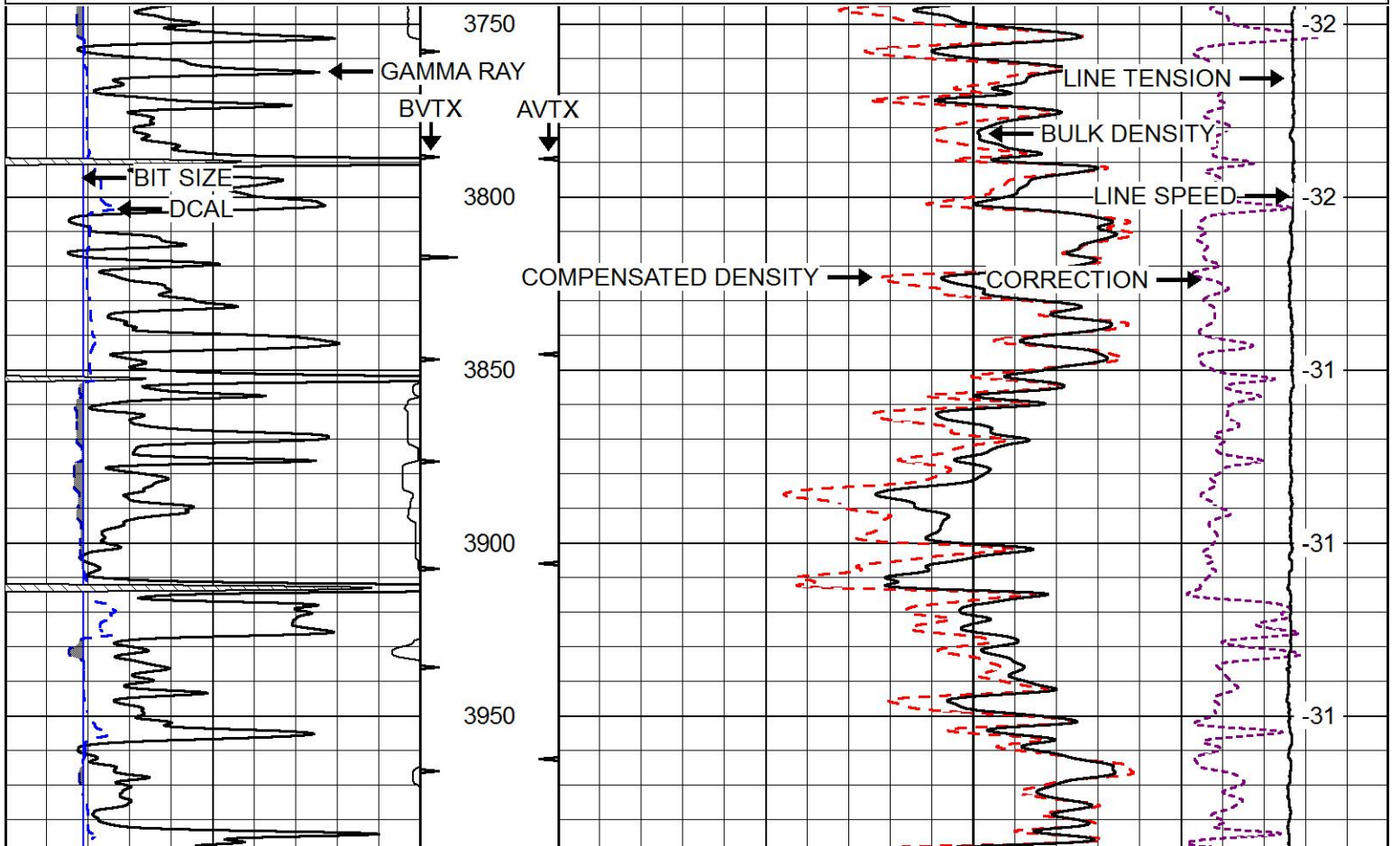
# MAIN PASS

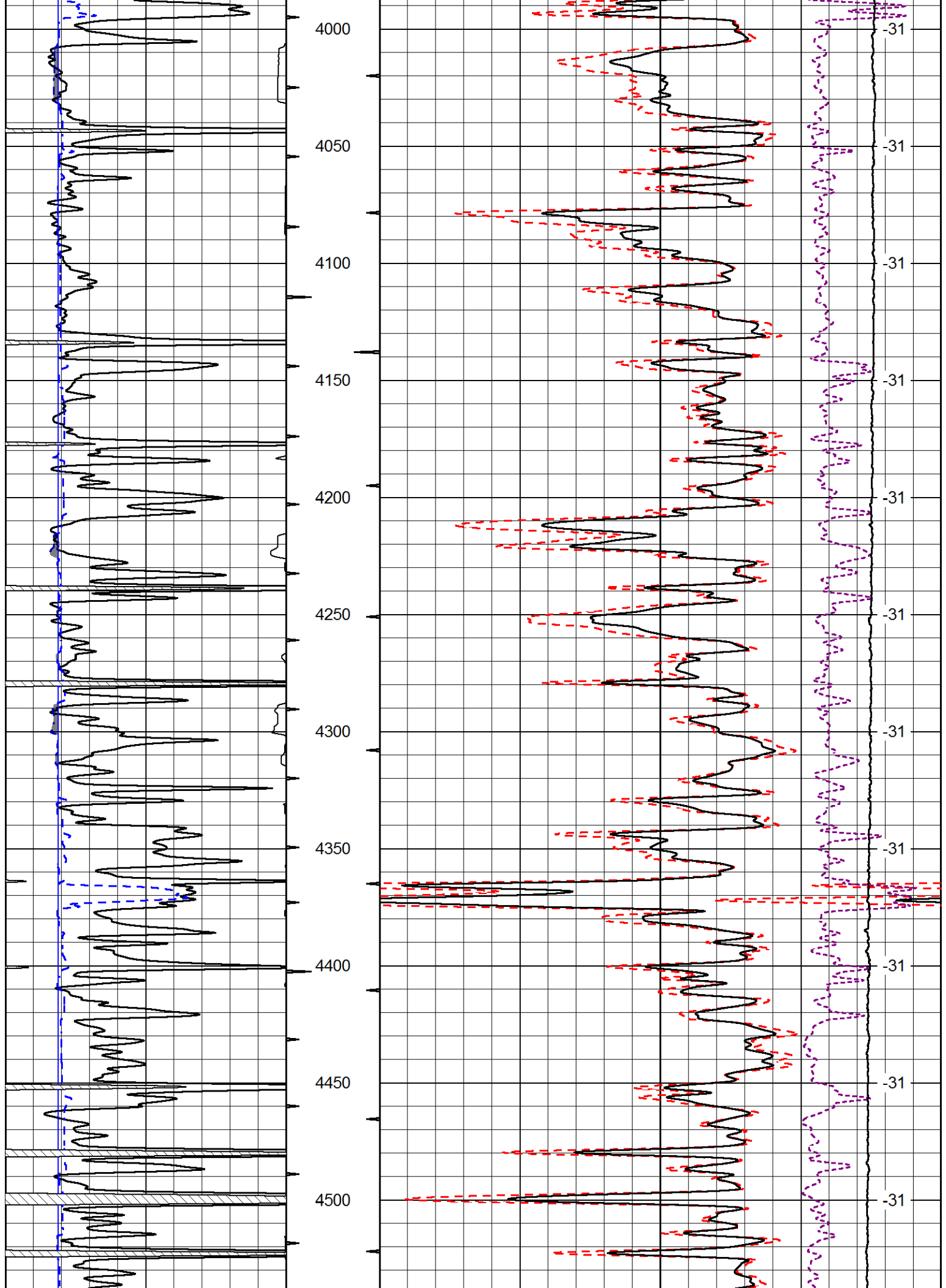
## 2" SCALE BULK DENSITY

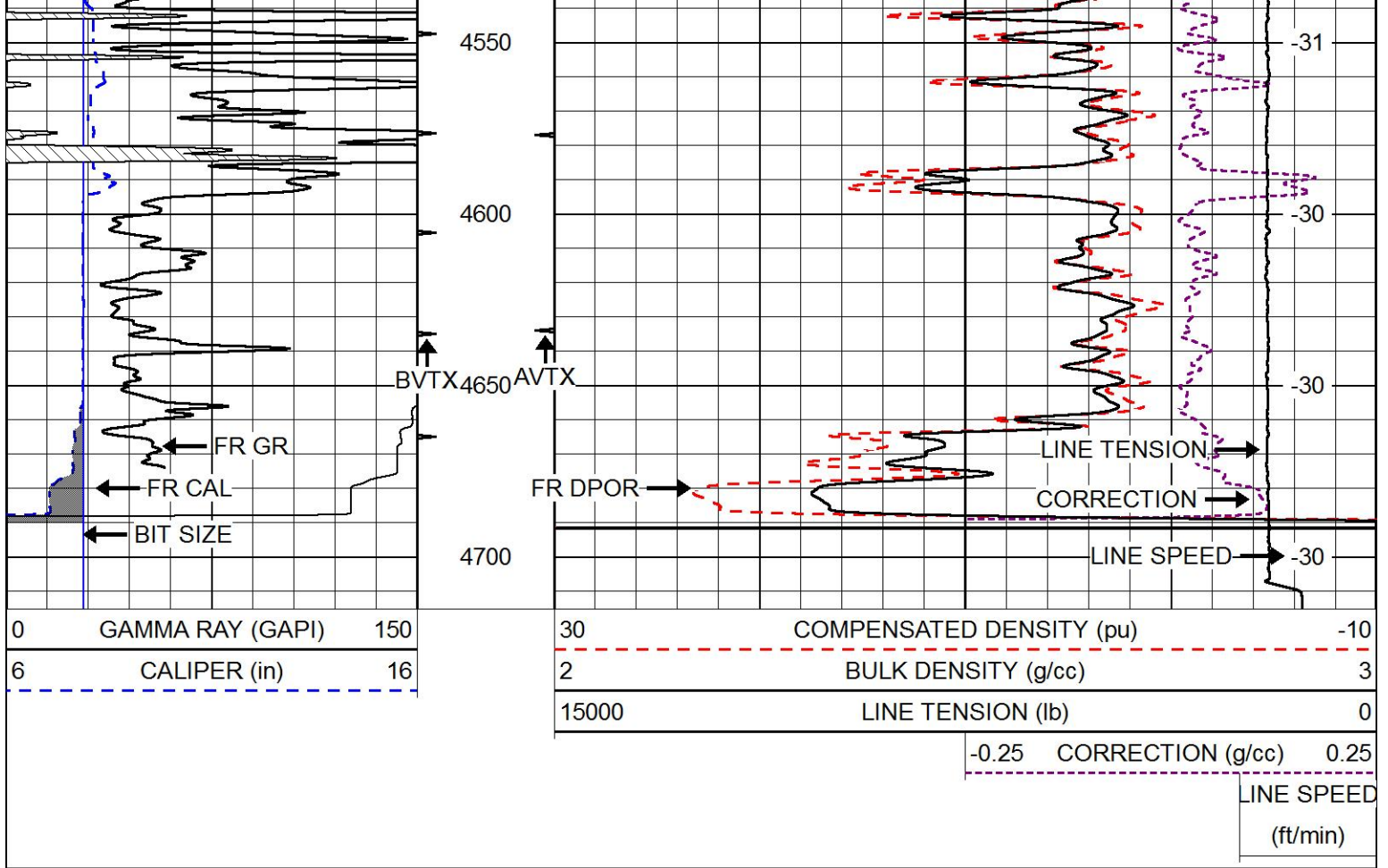
Database File brehmassementmanagement\_inmantrust\_1-20.db  
 Dataset Pathname stackmel/pass4.3  
 Presentation Format cdl  
 Dataset Creation Tue Jul 26 12:11:48 2016  
 Charted by Depth in Feet scaled 1:600

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

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

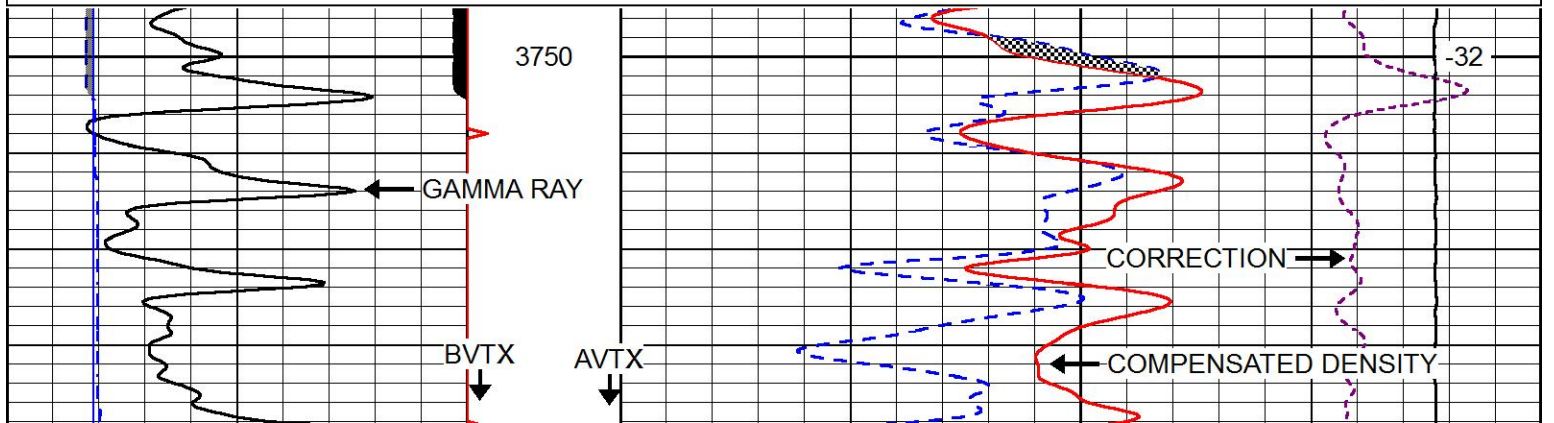
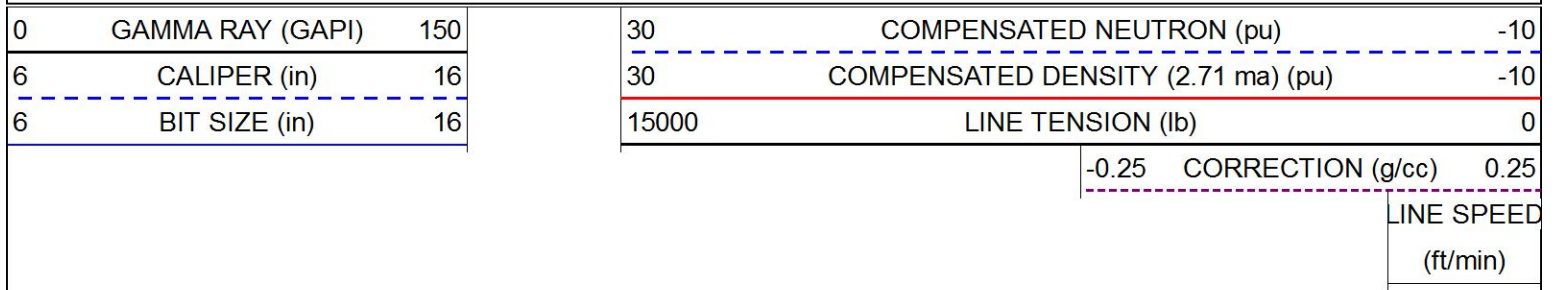


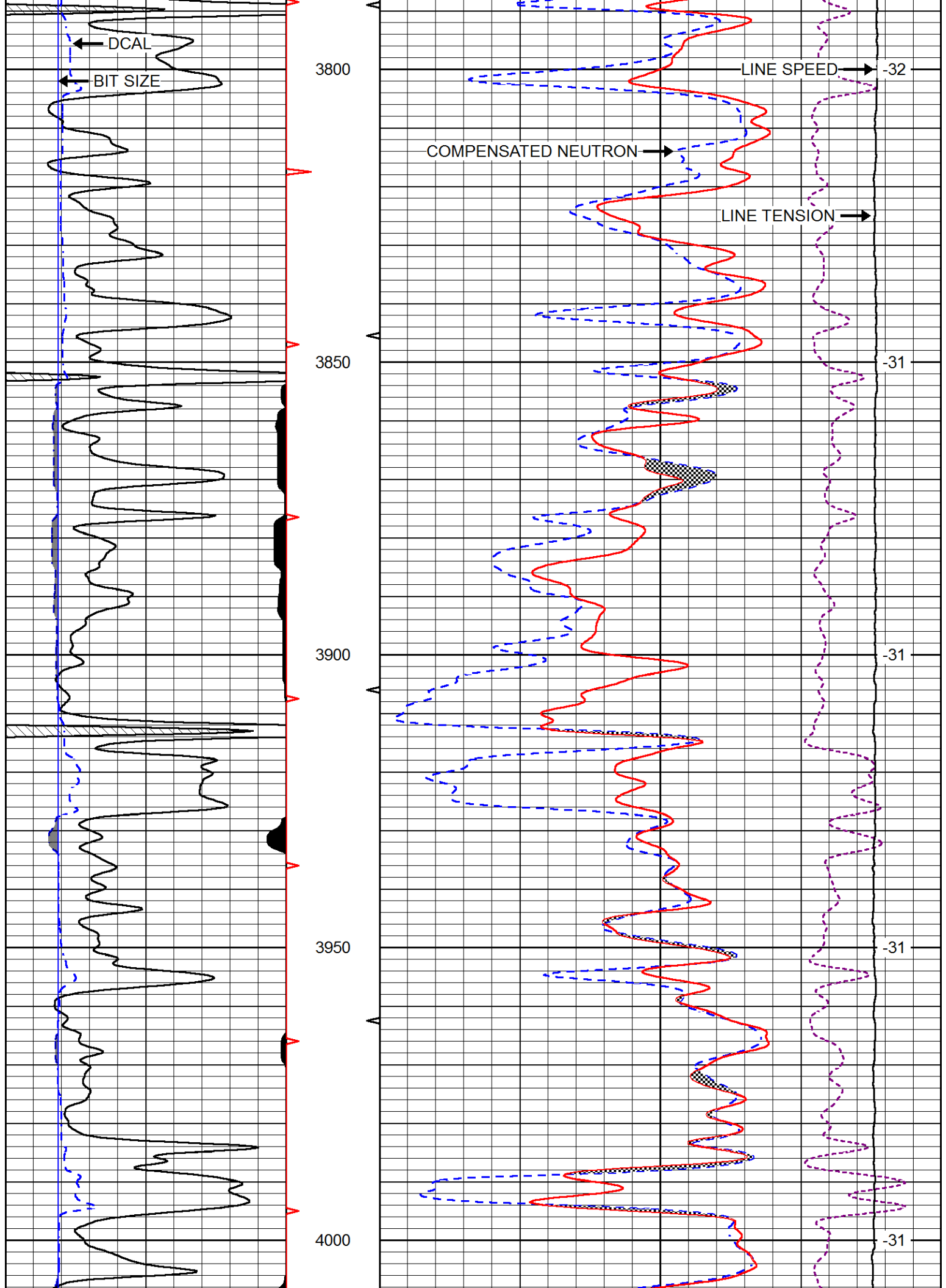




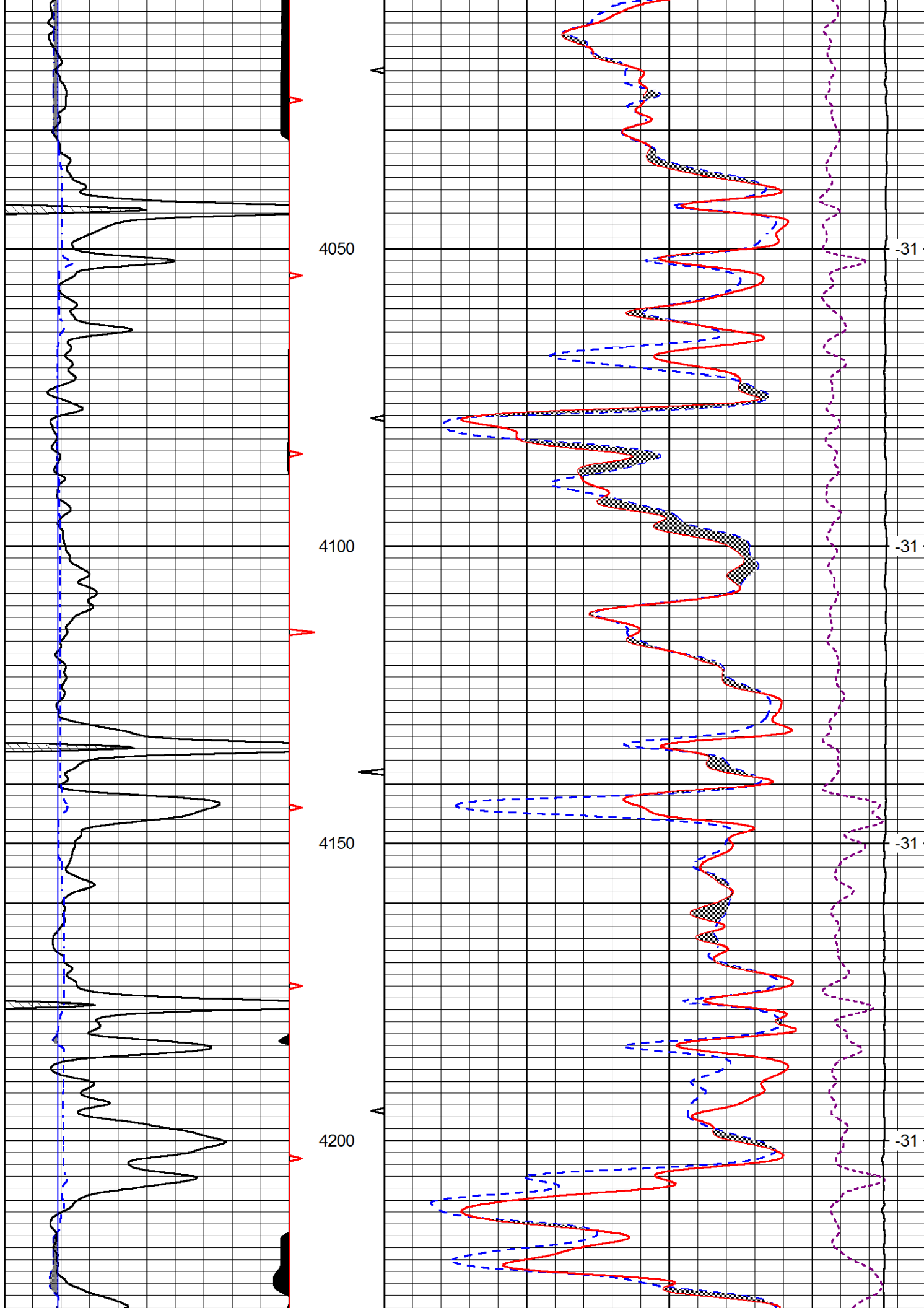
# MAIN PASS

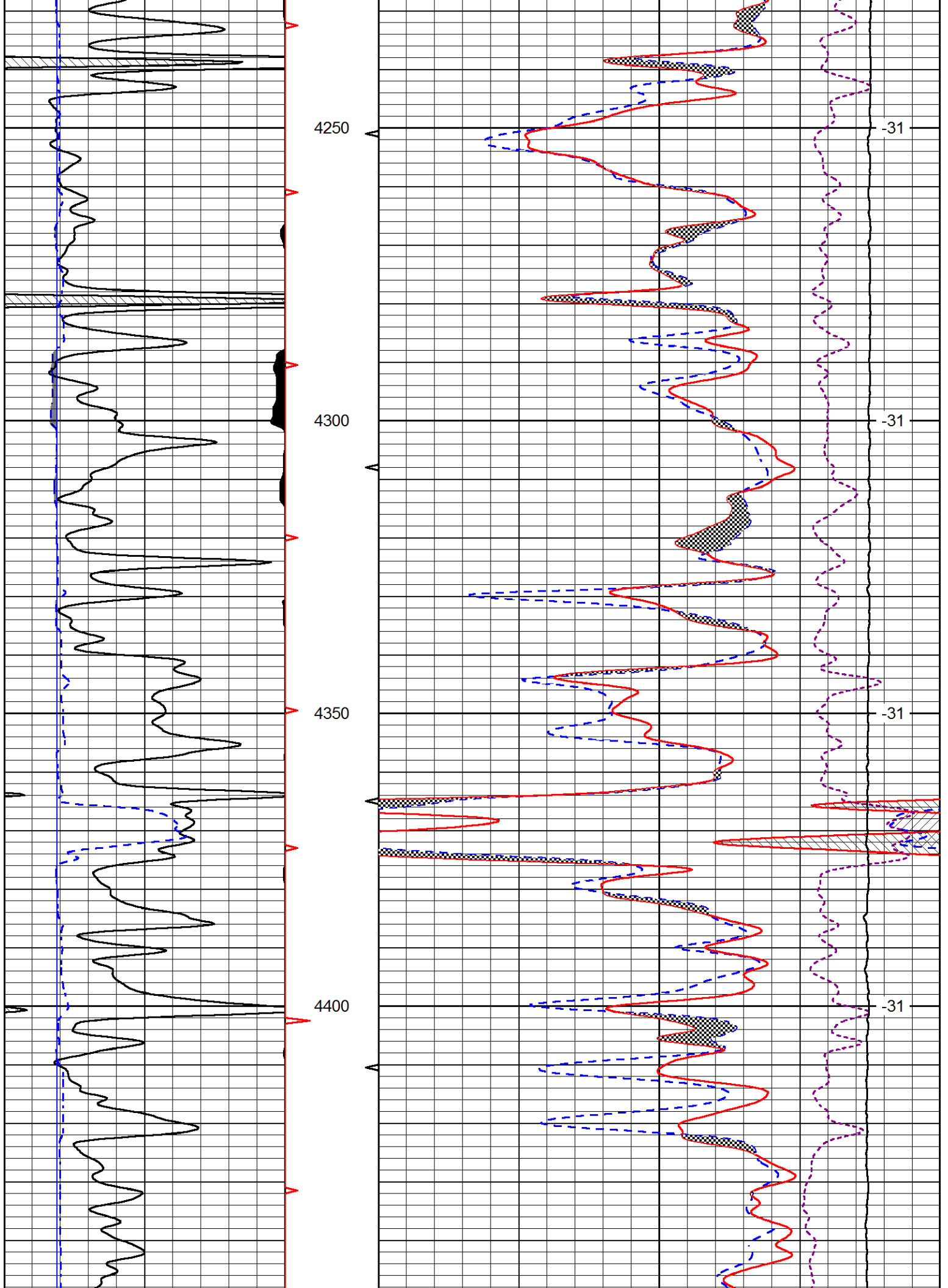
Database File      brehmassetmanagement\_inmantrust\_1-20.db  
 Dataset Pathname    stackmel/pass4.1  
 Presentation Format    cndlspec  
 Dataset Creation      Tue Jul 26 12:11:42 2016  
 Charted by            Depth in Feet scaled 1:240

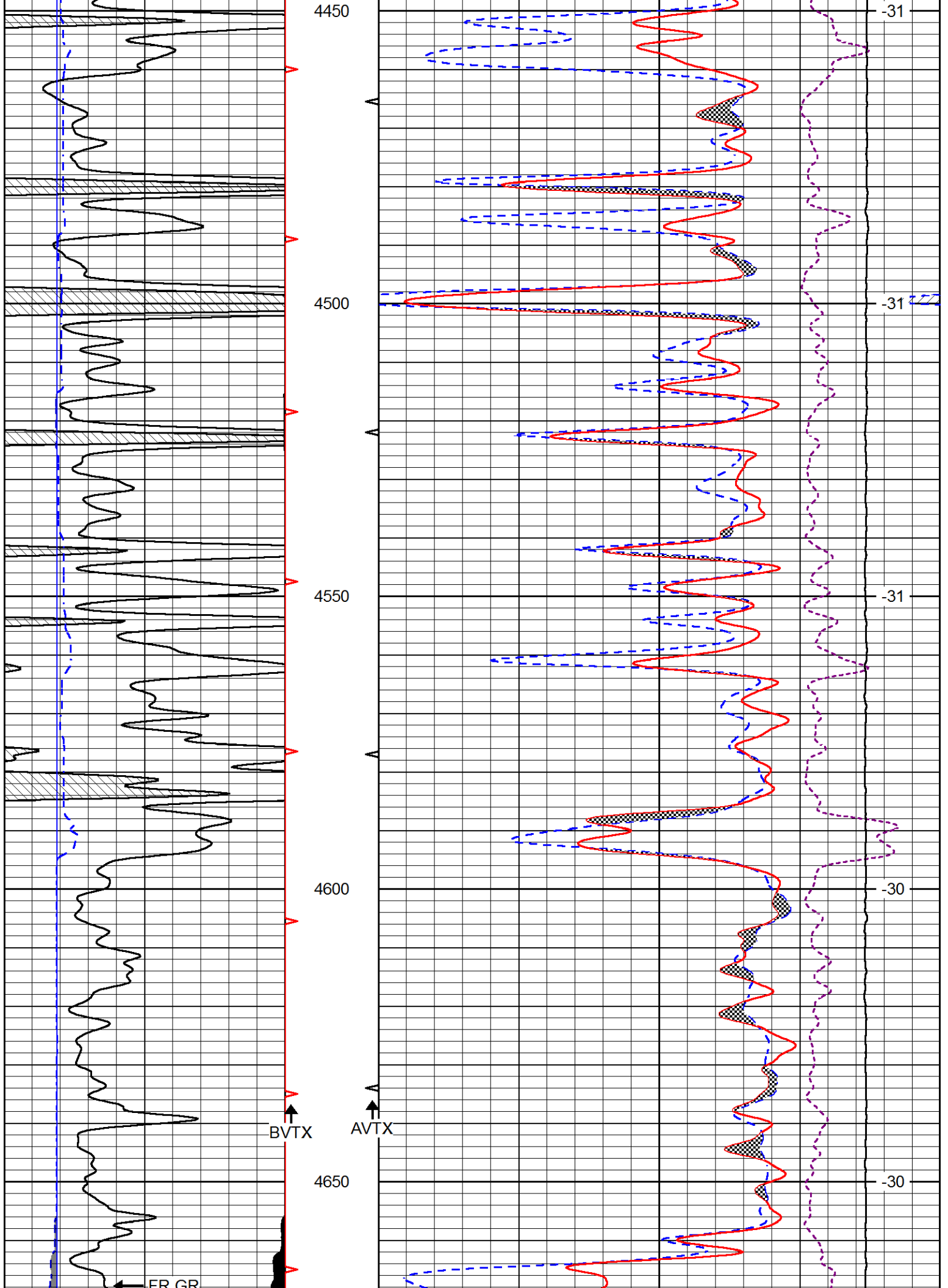


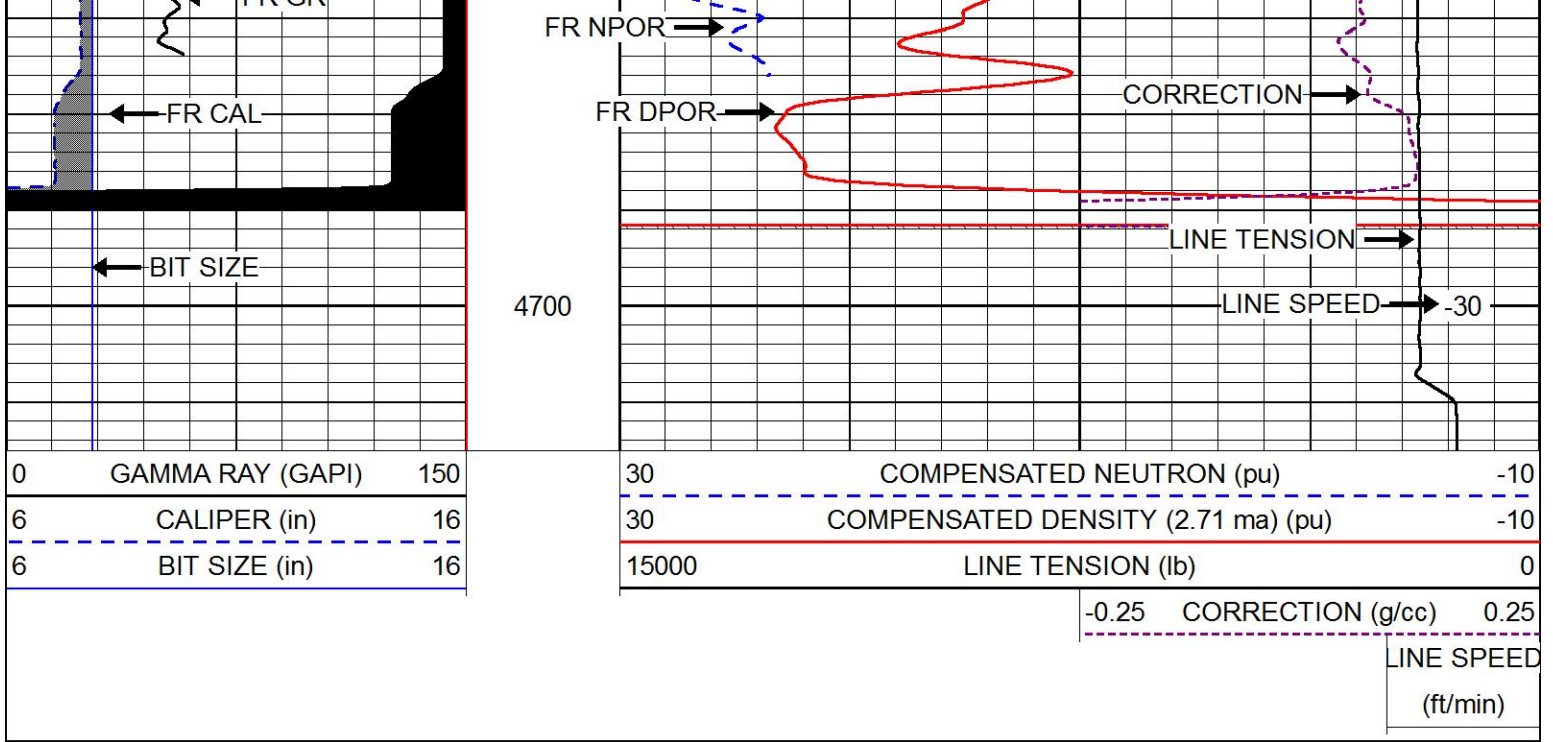






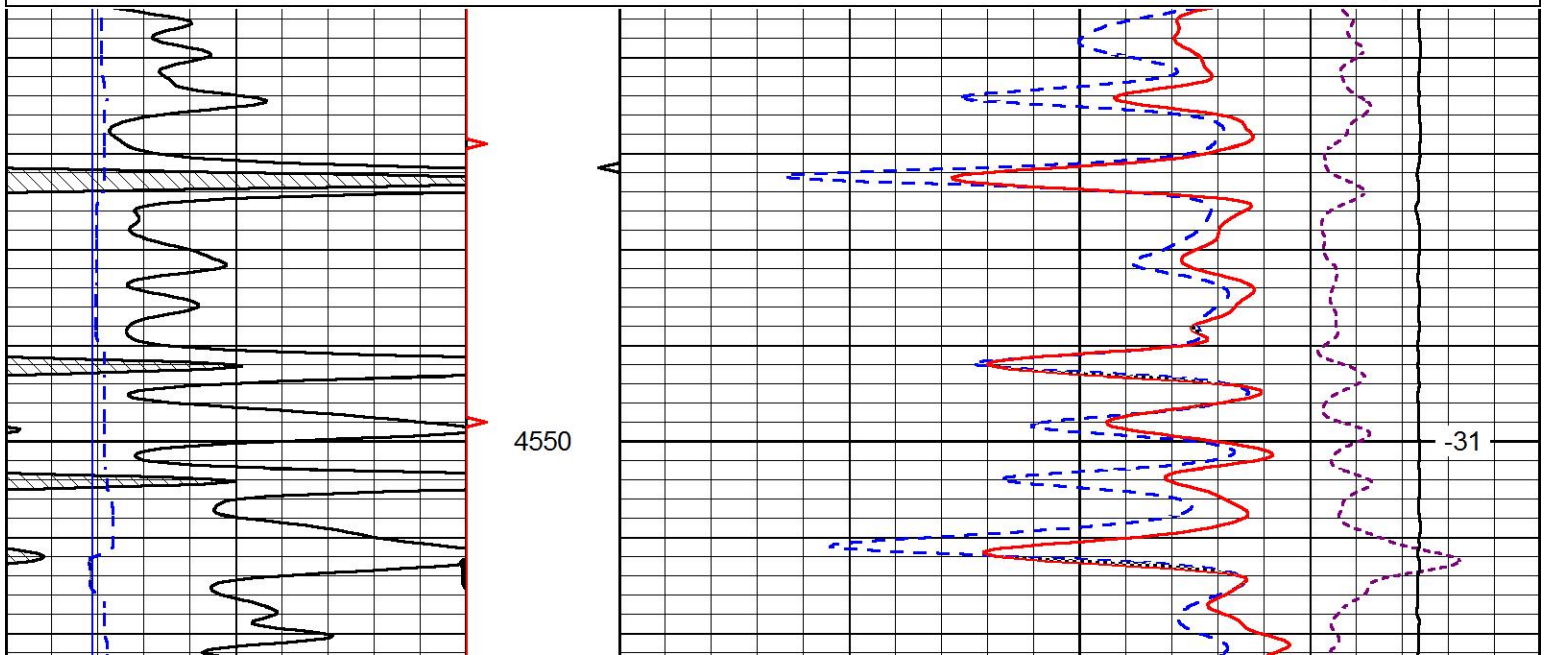
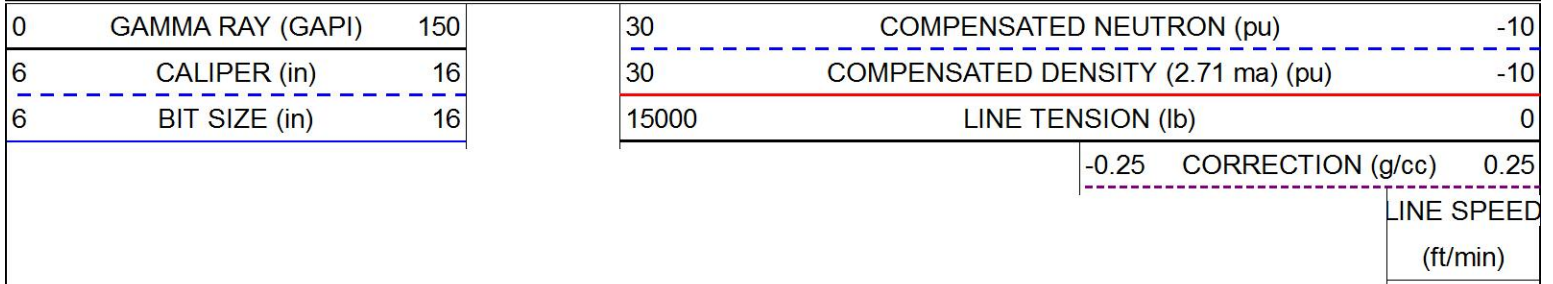


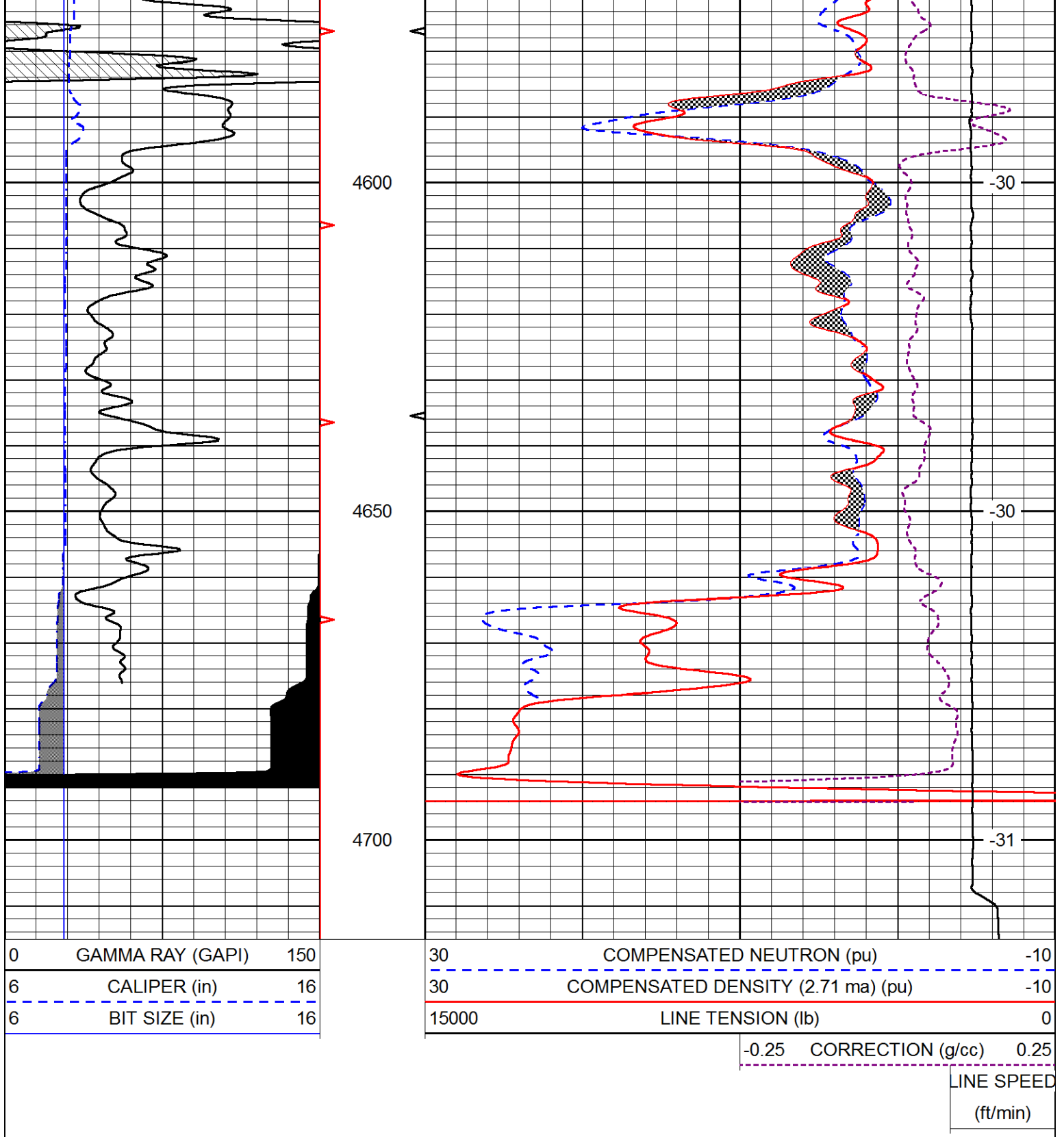




# REPEAT SECTION

Database File      brehmassetmanagement\_inmantrust\_1-20.db  
 Dataset Pathname    stackmel/pass2.1  
 Presentation Format    cndlspec  
 Dataset Creation      Tue Jul 26 12:29:32 2016  
 Charted by            Depth in Feet scaled 1:240





Calibration Report

Database File      brehmassetmanagement\_inmantrust\_1-20.db  
 Dataset Pathname    stackmel/pass4.13  
 Dataset Creation    Tue Jul 26 11:49:32 2016

---

Dual Induction Calibration Report

Serial-Model:                      1987-M&W  
 Calibration Performed:            Fri Jul 22 02:17:58 2016

Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep	178.615	710.235	0.000	255.800	mmho/m	0.530	-37.500
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.440	-111.000

Microlog Calibration Report

Serial-Model: PSI-02-PSI STKBL ML  
 Performed: Sun May 22 04:14:29 2016

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0031	0.0043	0.0000	10.0000	Ohm-m	8308.9400	0.0000
Inverse	0.0000	0.0013	0.0000	10.0000	Ohm-m	7967.2700	-0.0096
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: Sun Jul 03 15:00:29 2016

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4691.86	4818.19	cps
Aluminum	2.685	g/cc	859.57	3020.22	cps
Spine Angle = 74.61		Density/Spine Ratio = 0.528			
	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 July 20 08:04:05 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: Sun Jul 17 19:05:06 2016

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	BREHM ASSET MANAGEMENT, LLC.
Well	INMAN TRUST NO. 1-20
Field	EVA NORTHWEST
County	SCOTT
State	KANSAS



# MICRORESISTIVITY LOG

Company BREHM ASSET MANAGEMENT, LLC  
 Well INMAN TRUST NO. 1-20  
 Field EVA NORTHWEST  
 County SCOTT  
 State KANSAS

Company BREHM ASSET MANAGEMENT, LLC.  
 Well INMAN TRUST NO. 1-20  
 Field EVA NORTHWEST  
 County SCOTT State KANSAS

Location: API #: 15-171-21173-00-00  
 1,650' FSL & 660' FEL  
 SEC 20 TWP 18S RGE 31W  
 Permanent Datum GROUND LEVEL Elevation 1950'  
 Log Measured From KELLY BUSHING  
 Drilling Measured From KELLY BUSHING  
 Other Services  
 CNL/CDL  
 DIL  
 Elevation  
 K.B. 1960'  
 D.F. N/A  
 G.L. 1950'

Date	7/26/2016
Run Number	ONE
Depth Driller	4710'
Depth Logger	4708'
Bottom Logged Interval	4707'
Top Log Interval	3750'
Casing Driller	8.625" @ 349'
Casing Logger	348'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	1000
Density / Viscosity	8.9 48
pH / Fluid Loss	8.5 8.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	1.18 @ 79
Rmt @ Meas. Temp	.89 @ 79
Rmc @ Meas. Temp	1.59 @ 79
Source of Rmf / Rmc	CHARTS
Rm @ BHT	.76 @ 123
Operating Rig Time	2 1/2 HOURS
Max Rec. Temp. F	123
Equipment Number	108
Location	COLBY
Recorded By	J. LONG
Witnessed By	DWIGHT BREHM

<<< 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.  
 SCOTT CITY, 8 EAST TO TAOS ROAD, 3/4 SOUTH, WEST INTO

Log Measured From: KELLY BUSHING 10 Ft. Above Permanent Datum

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Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: J. LONG	Primary Witness: DWIGHT BREHM
Operator: M. HISS	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

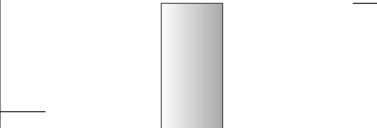
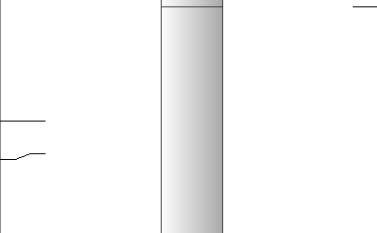
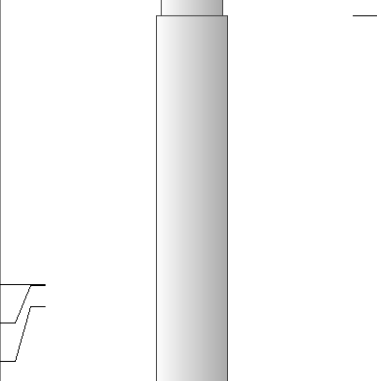
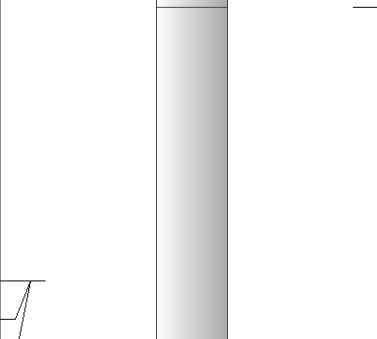
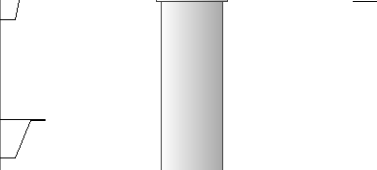
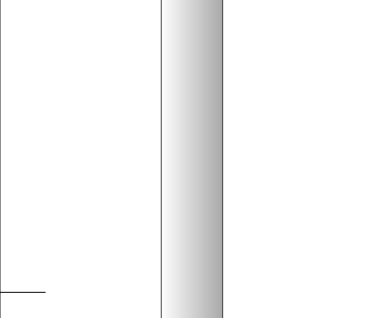


# Log Variables

DatabaseC:\ProgramData\Warrior\Data\brehmassetmanagement\_inmantrust\_1-20.db  
Dataset field/well/stackmel/pass4.1/\_vars\_

## Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	123	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	-280	79	Off	4708

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: brehmassementmanagement\_inmantrust\_1-20.db: field/well/stackmel/pass4.13  
 Total length: 43.08 ft  
 Total weight: 685.00 lb  
 O.D.: 4.00 in

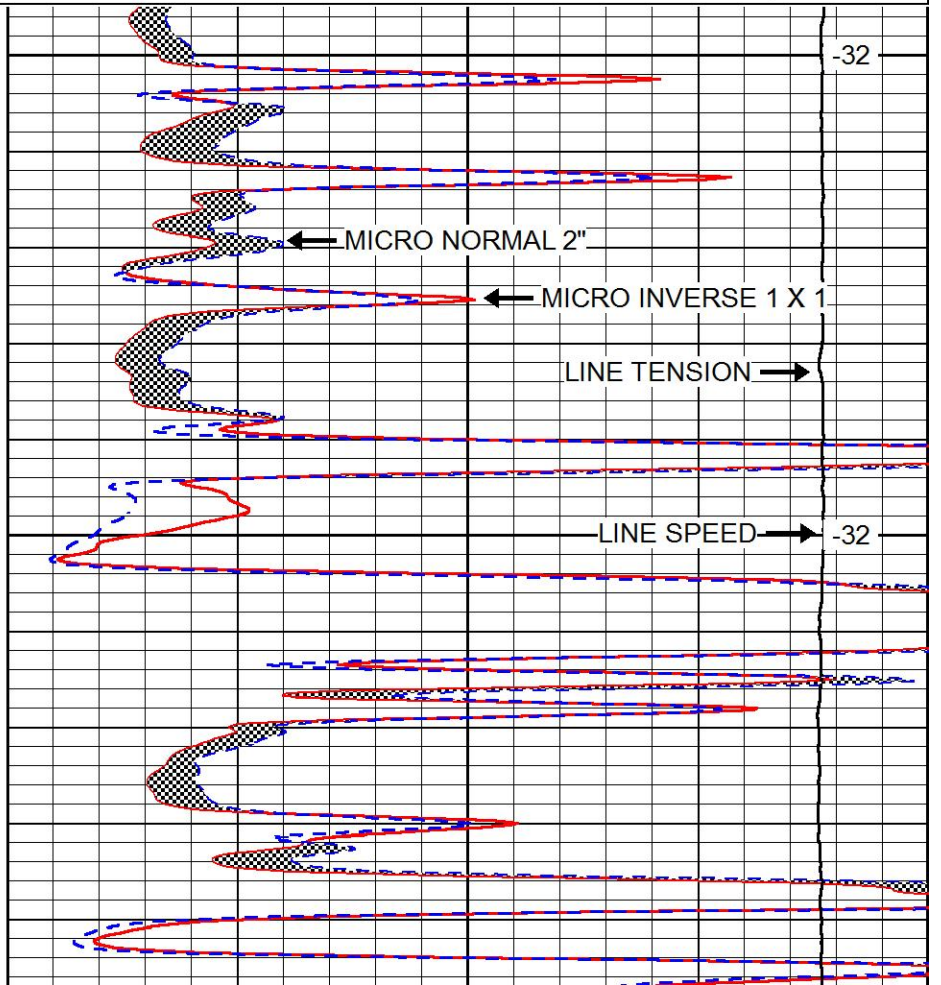
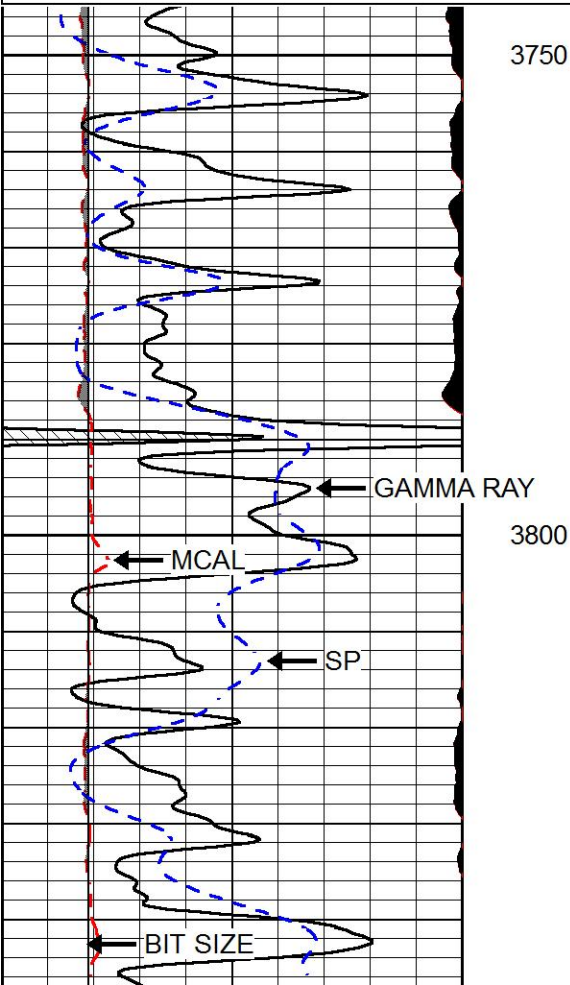


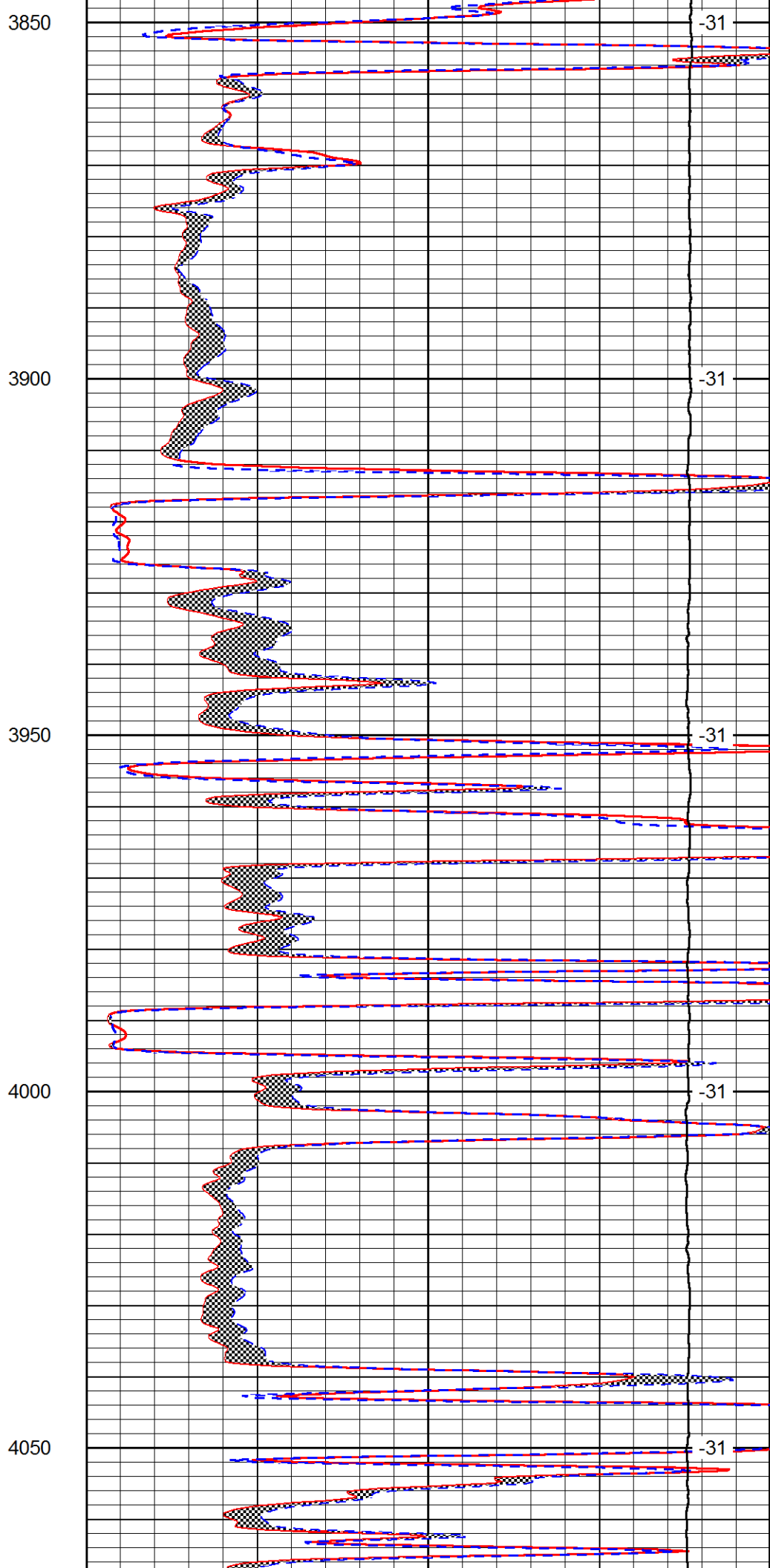
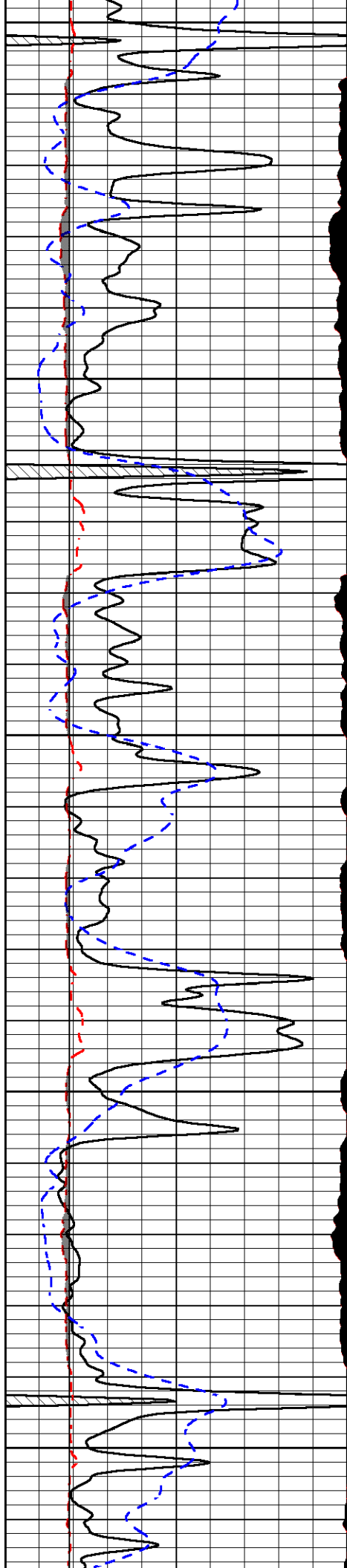
# MAIN PASS

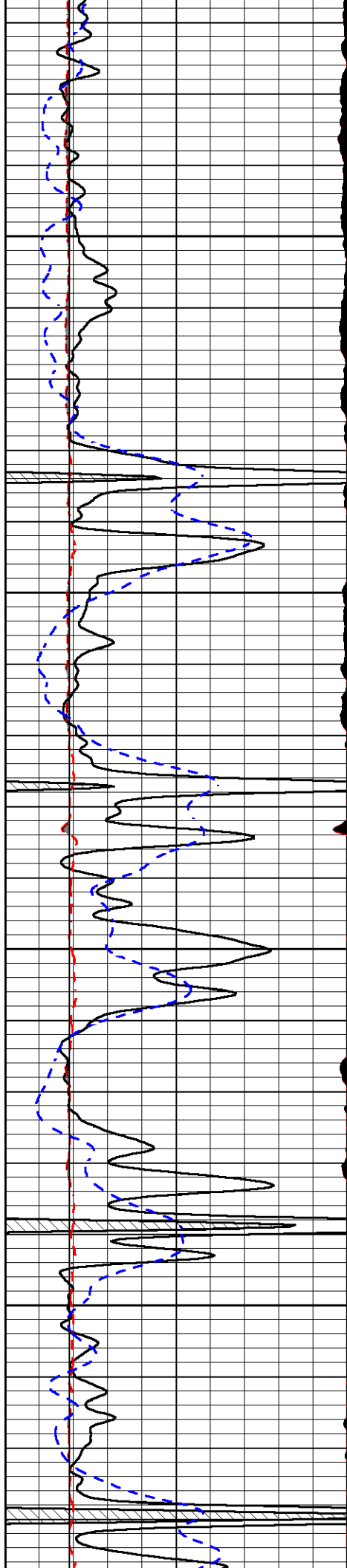
Database File brehmassementmanagement\_inmantrust\_1-20.db  
 Dataset Pathname stackmel/pass4.1  
 Presentation Format micro  
 Dataset Creation Tue Jul 26 12:11:42 2016  
 Charted by Depth in Feet scaled 1:240

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
	LINE SPEED (ft/min)	





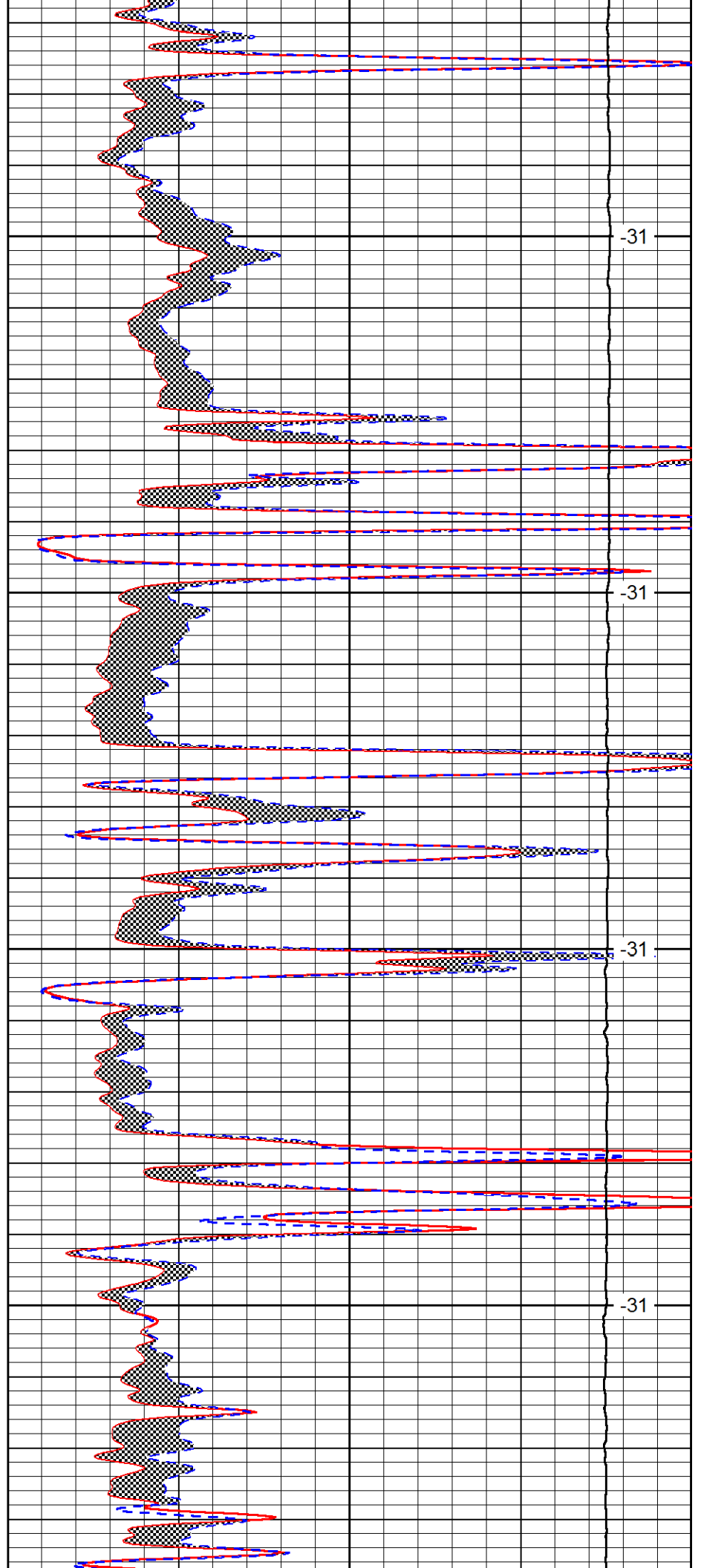


4100

4150

4200

4250

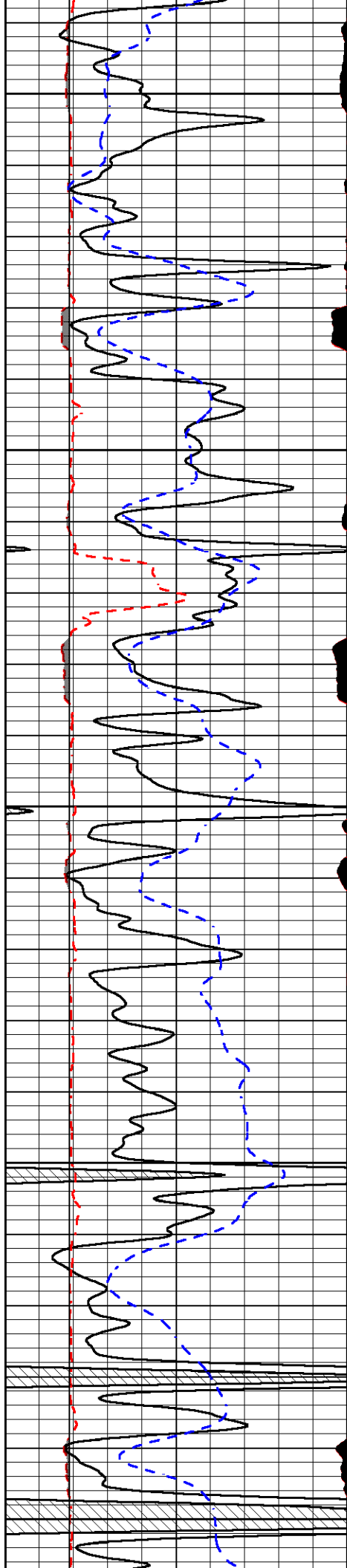


-31

-31

-31

-31



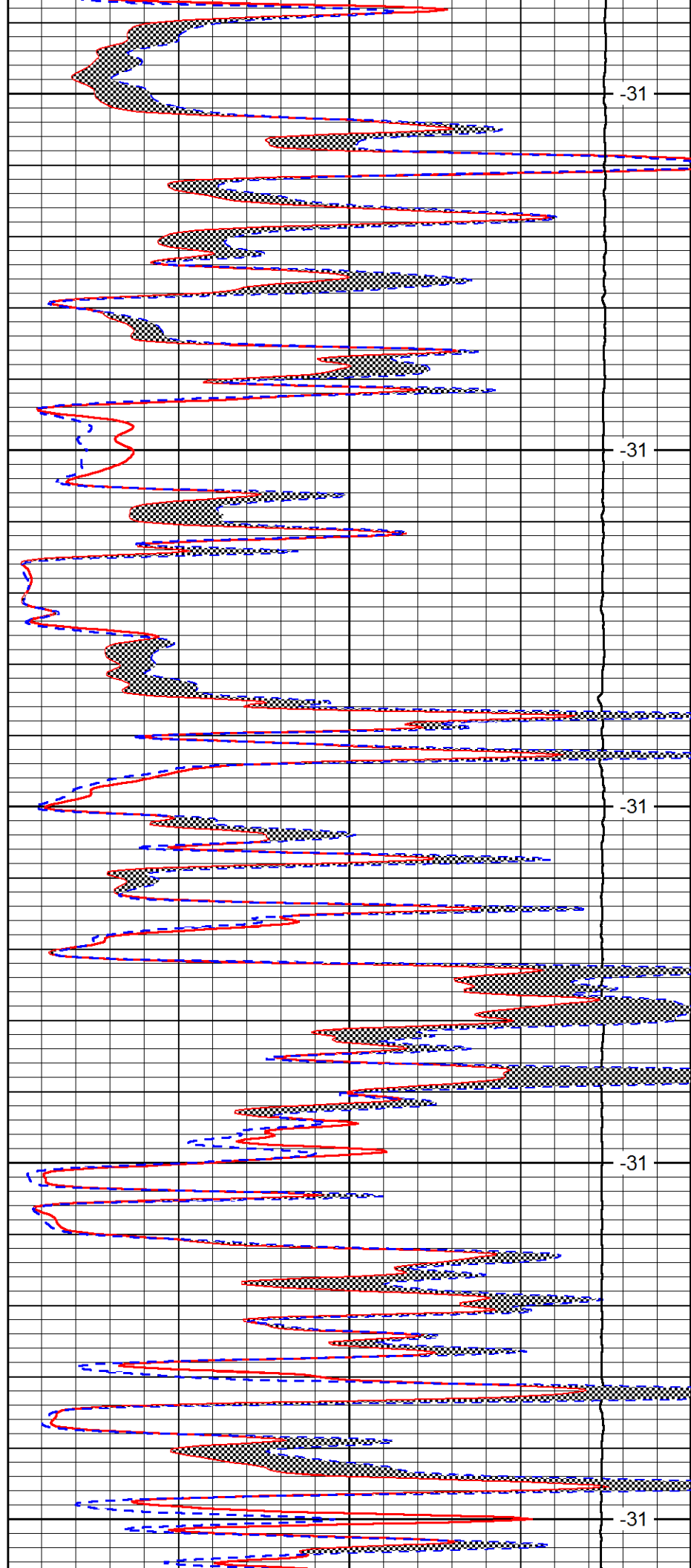
4300

4350

4400

4450

4500



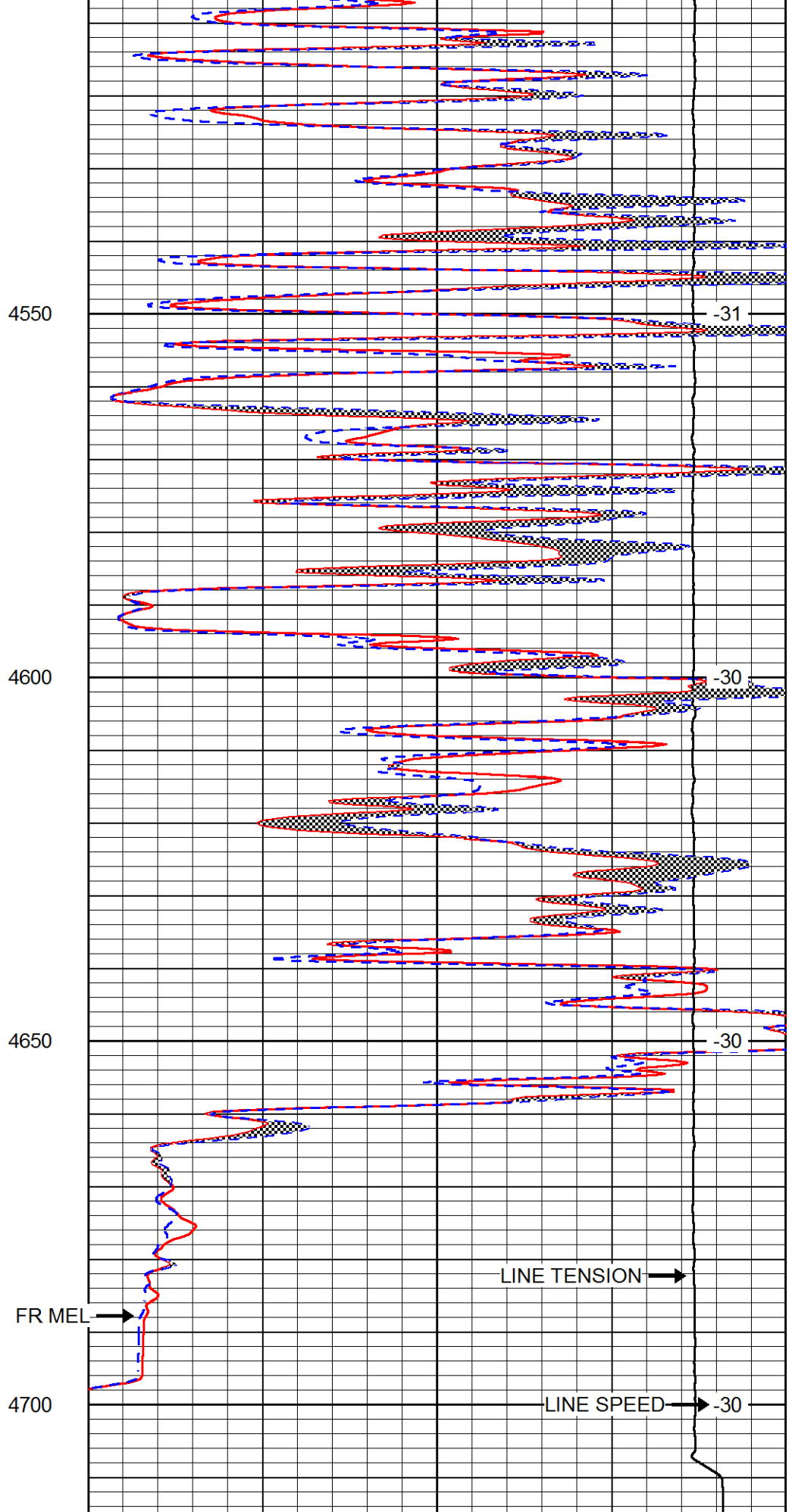
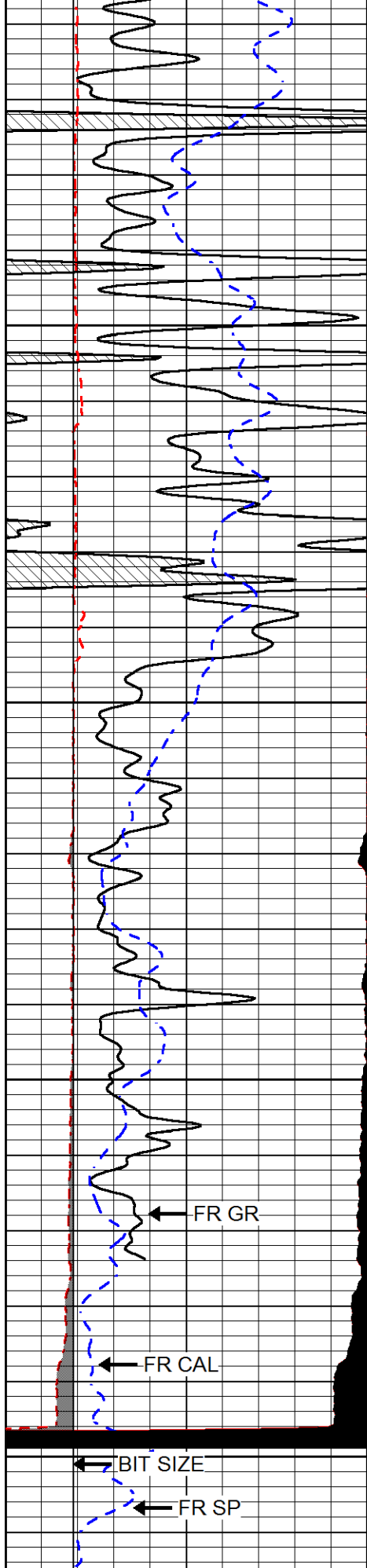
-31

-31

-31

-31

-31



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

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

6	BIT SIZE (in)	16
-200	SP (mV)	0

15000	LINE TENSION (lb)	0
	LINE SPEED (ft/min)	

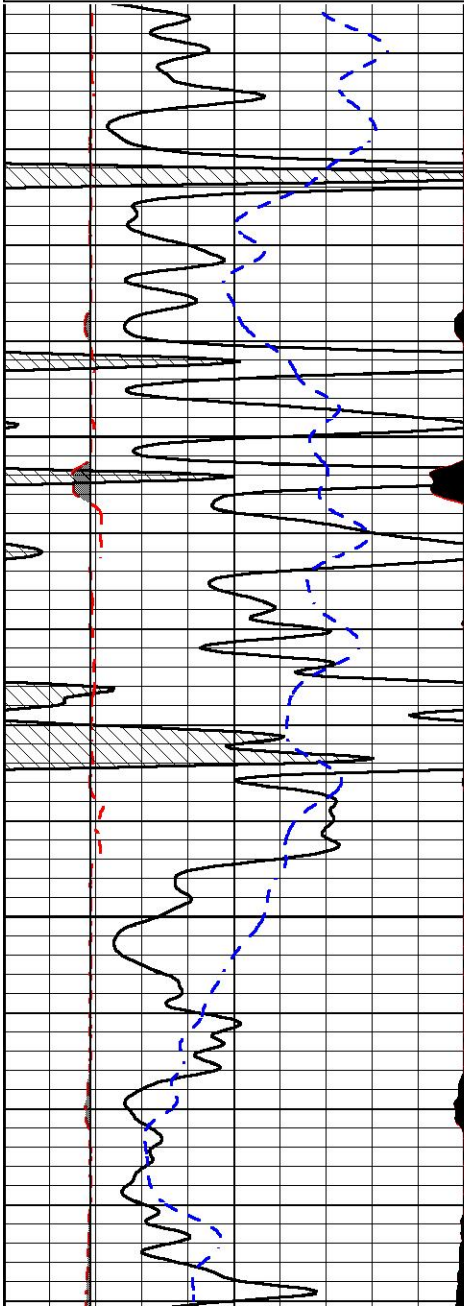


# REPEAT SECTION

Database File	brehmassetmanagement_inmantrust_1-20.db
Dataset Pathname	stackmel/pass2.1
Presentation Format	micro
Dataset Creation	Tue Jul 26 12:29:32 2016
Charted by	Depth in Feet scaled 1:240

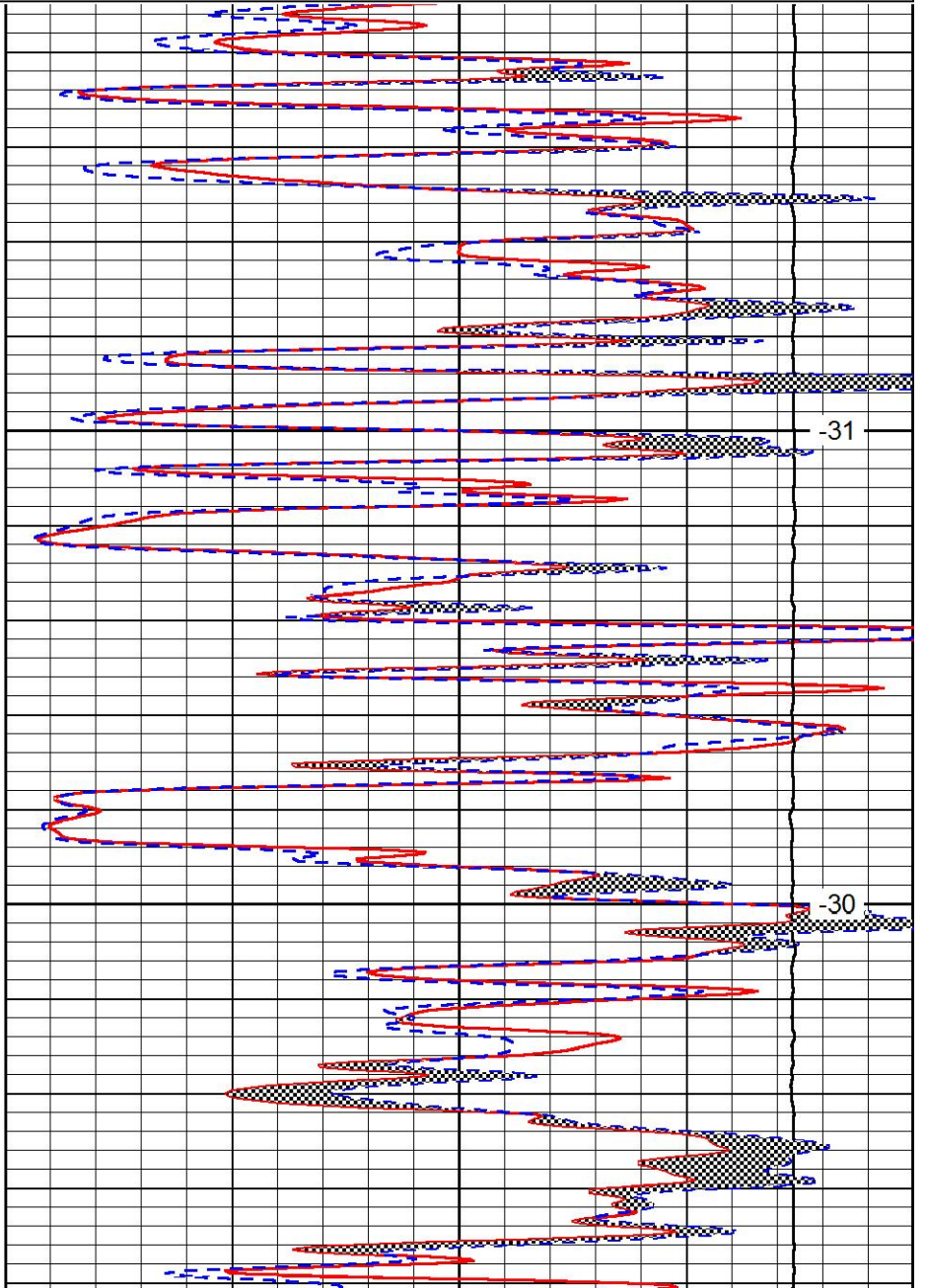
0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
6	BIT SIZE (in)	16
-200	SP (mV)	0

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



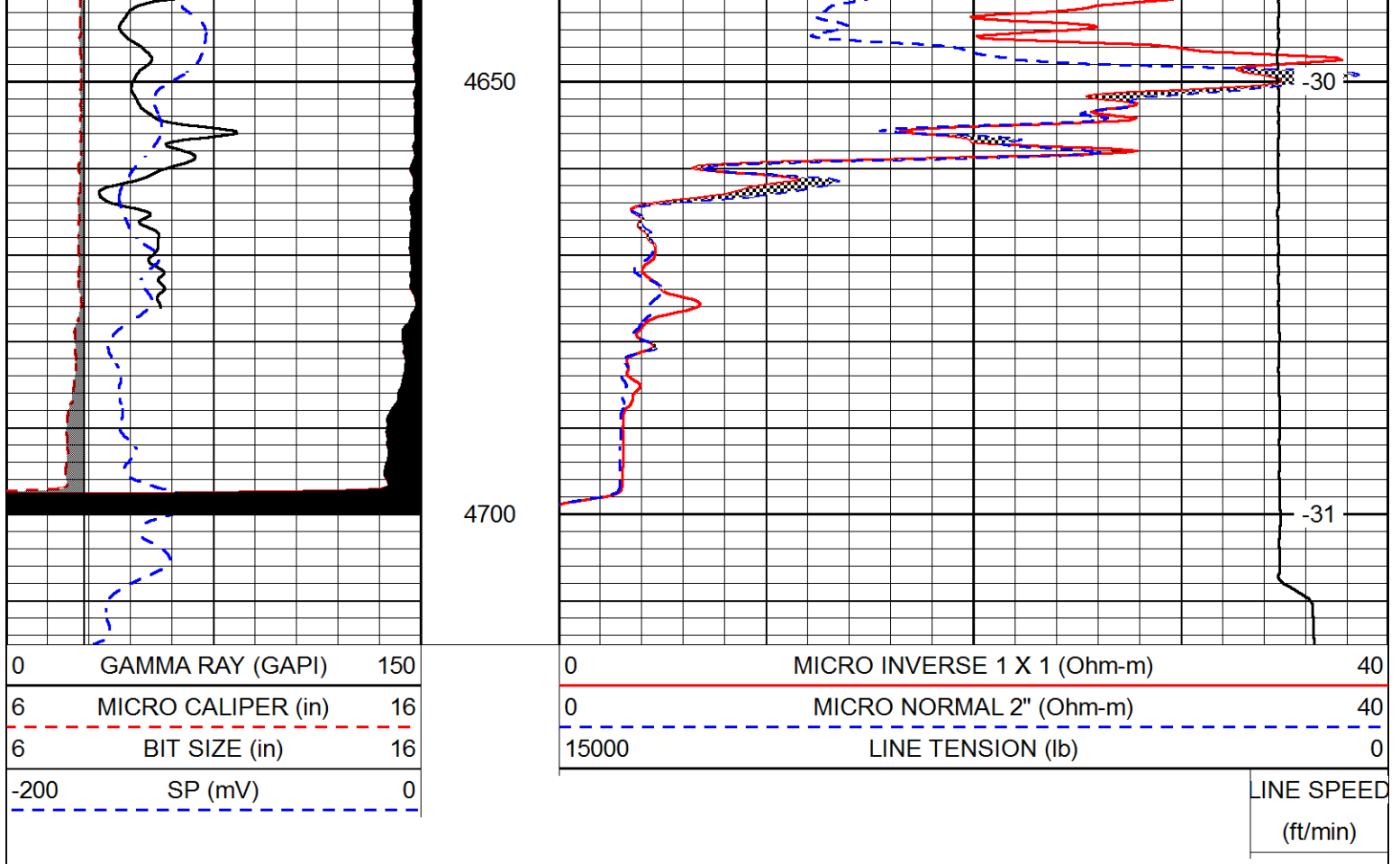
4550

4600



-31

-30



### Calibration Report

Database File brehmassetmanagement\_inmantrust\_1-20.db  
 Dataset Pathname stackmel/pass4.13  
 Dataset Creation Tue Jul 26 11:49:32 2016

### Dual Induction Calibration Report

Serial-Model: 1987-M&W  
 Calibration Performed: Fri Jul 22 02:17:58 2016

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	178.615	710.235	0.000	255.800	mmho/m	0.530	-37.500
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.440	-111.000

### Microlog Calibration Report

Serial-Model: PSI-02-PSI STKBL ML  
 Performed: Sun May 22 04:14:29 2016

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0031	0.0043	0.0000	10.0000	Ohm-m	8308.9400	0.0000
Inverse	0.0000	0.0013	0.0000	10.0000	Ohm-m	7967.2700	-0.0096
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1560	-131.2500

### Compensated Density Calibration Report



Serial-Model:  
Source / Verifier:  
Master Calibration Performed:

168-986-M&W  
/  
Sun Jul 03 15:00:29 2016

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4691.86	4818.19	cps
Aluminum	2.685	g/cc	859.57	3020.22	cps
Spine Angle = 74.61			Density/Spine Ratio = 0.528		
	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 July 20 08:04:05 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: Sun Jul 17 19:05:06 2016

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 BREHM ASSET MANAGEMENT, LLC.  
Well INMAN TRUST NO. 1-20  
Field EVA NORTHWEST  
County SCOTT  
State KANSAS