

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. 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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810 E 7TH
 PO Box 92
 EUREKA, KS 67045
 (620) 583-5561



Cement or Acid Field Report
 Ticket No. **6102**
 Foreman Russell mclow
 Camp Eureka

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State	
12-4-21	1423	T. wiebe 31-9	31	23	5	Butler	Ks	
Customer EPOC . LLC			Safety Meeting Rm JASON Brok+ Unit # 105 112 128		Driver JASON Broker Russell		Unit # Driver	
Mailing Address 313 Aaron Drive			City ANDOVER		State Ks		Zip Code 67002	

Job Type SURFACE Hole Depth 253 K.B. Slurry Vol. 48 Bbl Tubing _____
 Casing Depth 237 G.L. Hole Size 12 1/4 Slurry Wt. 15 # Drill Pipe _____
 Casing Size & Wt. 8 5/8 Cement Left in Casing 20 +/- Water Gal/SK 6.5 Other _____
 Displacement 14 1/2 Displacement PSI _____ Bump Plug to _____ BPM 5

Remarks: Safety meeting, Rig to 8 5/8 w/ lost circulation, Load hole w/ mud pump + mud, mix + pump 175 SKs Regular class A cement w/ 3% caclz 2% gel 1/2 # floccle w/ cotton seed hulls (Furnished by Rig) = 42 Bbl Slurry @ 1.36 yield @ 15 # Displace w/ 14 1/2 Bbl water Poor circulation w/ cement Returns to surface close casing. wait 1 hr TAG cement Down 20' TOP OFF w/ 25 SKs cement, Annulus stayed Full. Job complete, Tear Down
 Thank you
 Russell mclow

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C-101	1	Pump Charge	890.00	890.00
C-107	40	Mileage	4.20	168.00
C-200	200	SKs CLASS A Regular cement	17.35	3,470.00
C-205	560 #	CAclz = 3%	.69	386.40
C-206	375 #	Gel = 2%	.28	105.00
C-209	100 #	Floccle = 1/2 # per SK	2.60	260.00
C-108 B	9.4	Ton Mileage Bulk Truck	1.40	526.40
C-606	1	8 5/8 cement BASKET	355.00	355.00
			Sub TOTAL	6,160.80
			- 5	<322.91>
			6.590 Sales Tax	297.41
Authorization <u>[Signature]</u> Title _____			Total	6135.36

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

10 E 7TH
 PO Box 92
 EUREKA, KS 67045
 (620) 583-5561



Cement or Acid Field Report
 Ticket No. **6081**
 Foreman Kevin McCoy
 Camp EUREKA

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
12-7-21	1423	T. Wiebe #31-9	31	235	SE	BUTLER	Ks
Customer EPOC, LLC		Safety Meeting KM SF SM	Unit #	Driver	Unit #	Driver	
Mailing Address 313 E. AARON DR.			104	SHANNON F.			
City ANDOVER			113	Steve M.			
State Ks		Zip Code 67002					

Job Type Longstring Hole Depth 2585' K.B. Slurry Vol. 35 BBL Longstring Tubing _____
 Casing Depth 2551.95' G.L. Hole Size 7 7/8" Slurry Wt. 13.8* Drill Pipe _____
 Casing Size & Wt. 5 1/2" 17* Cement Left in Casing 0' Water Gal/SK _____ Other _____
 Displacement 60.7 BBL Displacement PSI 900 Bump Plug to 1350 PSI BPM _____

Remarks: Safety Meeting: Used 5 1/2" 17* casing set @ 2551.95' G.L. Rig up to 5 1/2 casing. BREAK
Circulation w/ 10 BBL fresh water. Mixed 110 SKS THICK Set Cement w/ 5* KOL-SEAL/SK, 2*
Pheno Seal/SK @ 13.8*/GAL, yield 1.80 = 35 BBL slurry. Wash out pump & lines. Shut down.
Release Plug. Displace Plug to Seat w/ 60.7 BBL fresh water. (First 30 BBL w/ KCL) FINAL
Pumping Pressure 900 PSI. Bump Plug to 1350 PSI. Wait 2 mins. Release Pressure. Float & Plug
Heid. Good Circulation while Cementing. Job Complete. Rig down.

Plug R.H. 20 SKS M.H. 15 SKS
 Centralizers # 2, 6, 15, 23, 31

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 102	1	Pump Charge	1100.00	1100.00
C 107	40	Mileage	4.20	168.00
C 201	145 SKS	THICK Set Cement	22.55	3269.75
C 207	725 *	KOL-SEAL 5*/SK	.52 *	377.00
C 208	290 *	Pheno Seal 2*/SK	1.45 *	420.50
C 108.B	7.98 Tons	TON Mileage	1.40	446.88
C 222	1.5 GALS	KCL (in First 30 BBL Displacement water)	30.00	45.00
C 421	1	5 1/2 Latch down Plug	266.00	266.00
C 661	1	5 1/2 AFU FLOAT SHOR w/ Latch down	340.00	340.00
C 504	5	5 1/2 x 7 7/8 Centralizers	55.00	275.00
			Sub Total	6708.13
			less 5%	335.41
			Sales Tax	324.56
			Total	6681.06

THANK YOU

Authorization By RAY GILBERT

Title _____

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

MUD LOG
WellSight Systems
 Scale 1:240 (5"=100') Imperial
 Measured Depth Log

Well Name: T. Wiebe #31-9
 API: 15-015-24157
 Location: SW SE NE SE Sec. 31-T23S-R5E
 License Number: 35831
 Spud Date: 12/04/21
 Surface Coordinates: 1325' FSL & 600' FEL

Region: Butler
 Drilling Completed: 12/ /21

Bottom Hole
 Coordinates:
 Ground Elevation (ft): 1477
 Logged Interval (ft): 2000 To: R.T.D
 Formation: Kinderhook
 Type of Drilling Fluid: Chemical

K.B. Elevation (ft): 1486
 Total Depth (ft):

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: EPOC LLC
 Address: 313 E. Aaron DR
 Andover, KS 67002-8649




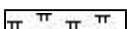
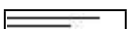
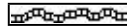


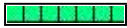

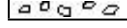
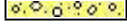



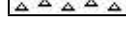


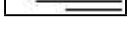
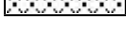
GEOLOGIST


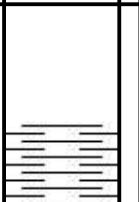
Name: William M. Stout
 Company:
 Address:

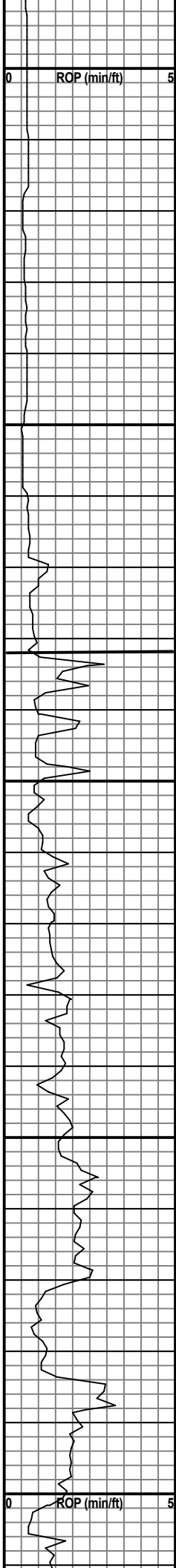
Comments

The decision was made to set and cement 5 1/2" casing to further evaluate the Mississippi through perforations.

ROCK TYPES

 Anhy	 Clyst	 Gyp	 Mrlst	 Shgy
 Bent	 Coal	 Igne	 Salt	 Sltst
 Brec	 Congl	 Lmst	 Shale	 Ss
 Cht	 Dol	 Meta	 Shcol	 Till

Curve Track 1 ROP (min/ft)	MD	Lithology	Geological Descriptions	Remarks
				



2000 MD

2050

2100

2150

2200 MD

Sh- gy, gm.

Sh- AA.

Sh- gy, gm, s/ sdy.

Sh- gy, dk gy, s/ sdy.

Sh- AA.

Sh- dk gy, gy, calc.

Ls- lt bm, bm, f-x, fos, dns, NS, NV por, w/ Sh- AA.

Ls- lt bm, bm, lt gy, f-x, fos, NS, tr inter-x por, w/ Sh- gy.

Ls- lt bm, lt gy, f-x, fos, dns, chky, NS.

Ls- AA. w/ Sh- gy.

Ls- lt gy, lt bm, f-x, fos, dns, NS, NV por.

Ls- AA. S/ Sh- gy, gm.

Ls- gy, lt gy, f-x, few fos, dns, NS.

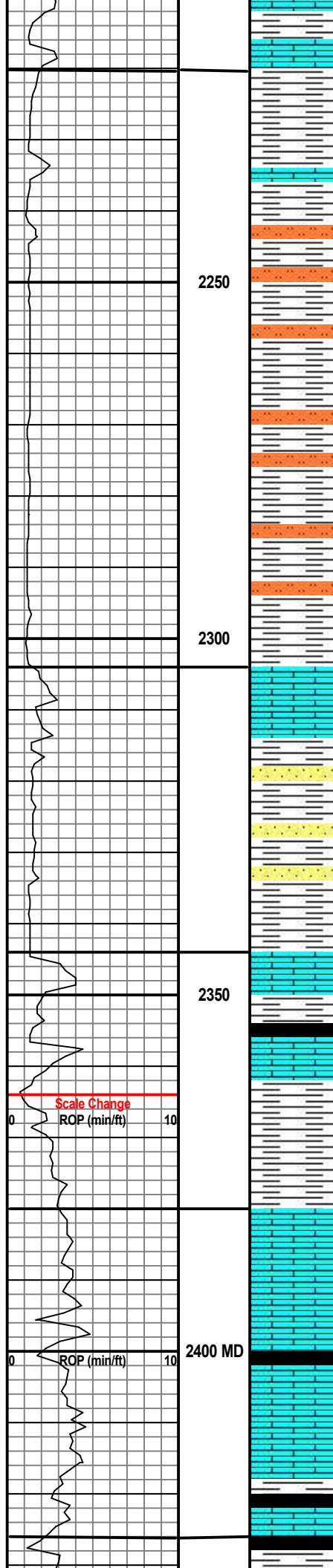
Ls- AA. w/ sh- dk gy, blk, s/ carb.

Ls- lt bm, lt gy, f-x, fos, dns, NS, s/ inter-x por.

Ls- lt bm, bm, lt gy, f-x, fos, dns, NS, w/ Sh- blk, dk gy, s/ carb.

Kansas City 2082' -596

log 2078' -592



Ls- gy, lt gy, f-x, dns, arg, NS, w/ Sh- gy.

Sh- gy, gm, dk gy s/ sdy, Ls- A.A.

Sh- gy, m gy, sdy, plenty of Ls- gy, bm, f-x arg, dns, NS.

Sh- gy, m gy, gm, s/ vy sdy, gy, f-gm, arg, calc, NS.

Sh- A.A. pyr.

Ls- lt bm, f-x, fos, dns, NS, w/ Sh- A.A.

Ls- A.A. w/ Sh- gy, gm, sdy.

Sh- gy, gm, w/ Ss- gy, f-gm, arg, mica, NS, tr p por.

Ls- lt bm, bm, f-x dns, fos, NS.

Ls- A.A. w/ Sh- dk gy, blk, carb.

Sh- gy, dk gy.

Ls- bm, lt bm, f-x, fos, dns, NS, NV por.

Ls- lt bm, bm, f-x, dns, scat m-xtals, fos, NS, NV por.

Ls- bm, gy, f-x, dns, fos, NS, w/ Sh- blk, carb, pyr.

Sh- blk, s/ carb, dk gy w/ Ls- bm, gy, lt bm, f-x, fos, dns, NS.

BKC 2220' -734

log 2216' -730

Mamaton 2304' -818

log 2299' -813

Altamont 2344' -858

log 2340' -854

Vis. 36

Wt. 9.3

W.L. 9.2

LCM 2

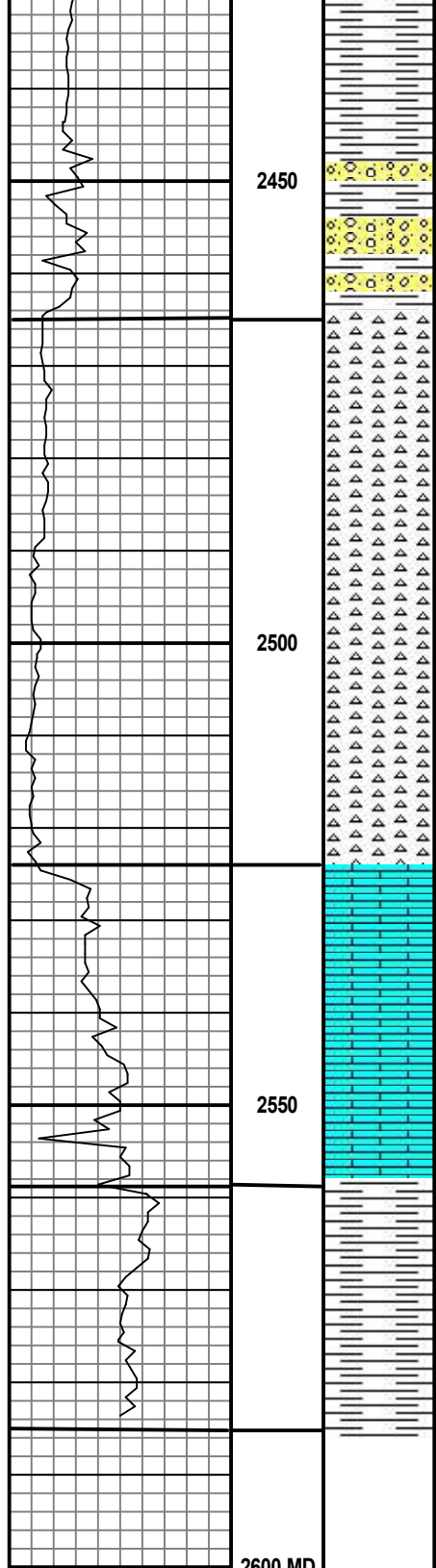
Bit Trip @ 2364'

Pawnee 2380' -894

log 2376' -890

Cherokee 2426' -940

log 2420' -934



Sh- red, gy, sticky, washes red.

Sh- a.a. s/ gm, s/ sdy, calc, hd, few pieces cht-
bm, opq, NS.

Cht- amber, off wht, trans, mostly fresh, no
odor, NSFO, poss lt stn, tr fluor, NV por. Sh-
A.A.

Cht- A.A. w/ tr wea, w/ pp and vug por, lt stn,
fluor, (5%), ft odor, SFO when broken few
GB.

Cht- wht, amber, trans to opq, no odor, scat lt
stn, tr por w/ fluor.

Cht- A.A. w/ sli inc fluor (8%), SFO when
broken, vy scat pp and vug por.

Cht- wht, amber, opq to trans, fresh, NS, w/
Sh- gy, gm, red.

Sh- gy, dk gy, gm, w/ tr Ls- lt bm, f-x, dns,
NS.

Ls- lt bm, f to m-x, dns, sli chky, NS, NV por,
w/ Sh- A.A.

Sh- dk gy, gy, s/ gm, w/ Ls- A.A.

Sh- gy, gm, w/ Ls- A.A.

Mississippi 2465' -979

log 2561' -1075

Mississippi Lime 2524' -1038

log 2521' -1075

Kinderhook 2559' -1073

log 2554' -1068

R.T.D. 2585' -1099

log 2581' -1095

10:30 PM 12-06-21



MIDWEST WIRELINE

**DUAL COMP POROSITY
MICRO & DUAL IND LOG**

Company **EPOC, LLC**
Well **T Wiebe #31-9**
Field **Hazlett**
County **Butler** State **Kansas**

Company **EPOC, LLC**
Well **T Wiebe #31-9**
Field **Hazlett**
County **Butler**
State **Kansas**

Location: **API # : 15-015-24157-00-00**
1325 FSL 600 FEL
SEC 31 TWP 23S RGE 5E
Permanent Datum **Ground Level** Elevation **1477**
Log Measured From **Kelly Bushing**
Drilling Measured From **Kelly Bushing**
Other Services
K.B. **1486**
D.F.
G.L. **1477**

Date	12/7/2021						
Run Number	One						
Type Log	CNL/CDL/ML/DIL						
Depth Driller	2585						
Depth Logger	2581						
Bottom Logged Interval	2580						
Top Logged Interval	1500						
Type Fluid In Hole	Chemical						
Salinity, PPM CL	1100						
Density	9.3						
Level	Full						
Max. Rec. Temp. F	102						
Operating Rig Time	3 Hours						
Equipment -- Location	P-24 Hays						
Recorded By	D. Schmidt						
Witnessed By	Ray Gilbert						
Borehole Record							
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	0	237	8.625	23	0	237
Two	7.875	237	TD				
Casing Record							

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and Midwest Wireline LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Midwest Wireline 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.

**Newton,
East on 150th to Purity Springs Rd,
3 South, North and West into at intersection**

Log Measured From: Kelly Bushing 9 Ft. Above Permanent Datum

**THANK YOU FOR USING MIDWEST WIRELINE LLC
785-625-3858**

Your Midwest Wireline Crew

Engineer: **D. Schmidt**
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: **Ray Gilbert**
Secondary Witness: **Bill Stout**
Secondary Witness:
Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-M&W (233-M&W)	3.00	3.50	50.00
CNLSC CNSSC	37.23 36.48		CNT-M&W (207-MW)	5.00	3.50	100.00
LSD DCAL SSD	28.18 28.17 27.68		CDL-M&W (934-226)	8.50	4.00	250.00
MCAL MI MN	19.58 19.58 19.58		ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics	7.58	4.00	65.00
RLL3F RLL3	15.50 15.50		DIL-PSI HIGH TEMP (952-828)	18.25	3.50	220.00
CILD	8.33					
CILM	4.50					
SP	0.20					

Dataset: epoch_t wiebe 31-9.db: field/well/stkml/pass3.2
 Total length: 42.33 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\epoch_t_wiebe 31-9.db
 Dataset field/well/stkml/pass3.2/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	102	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	160	30	Off	2581

Variable Description

A : Cement Factor (a)
 BOREID : Borehole I.D.
 BOTTEMP : Bottom Hole Temperature
 CASEOD : Casing O.D.
 CASETHCK : Casing Thickness
 FLUIDDEN : Fluid Density
 M : Cement Exp (m)
 MATRXDEN : Matrix Density

NPORSEL : Neutron Porosity Curve Select
 PERFS : Perforation Flag
 SNDERR : Deep Sonde Error Correction
 SNDERRM : Medium Sonde Error Correction
 SPSHIFT : S.P. Baseline Offset
 SRFTEMP : Surface Temperature
 SZCOR : CN Size Cor. ?
 TDEPTH : Total Depth



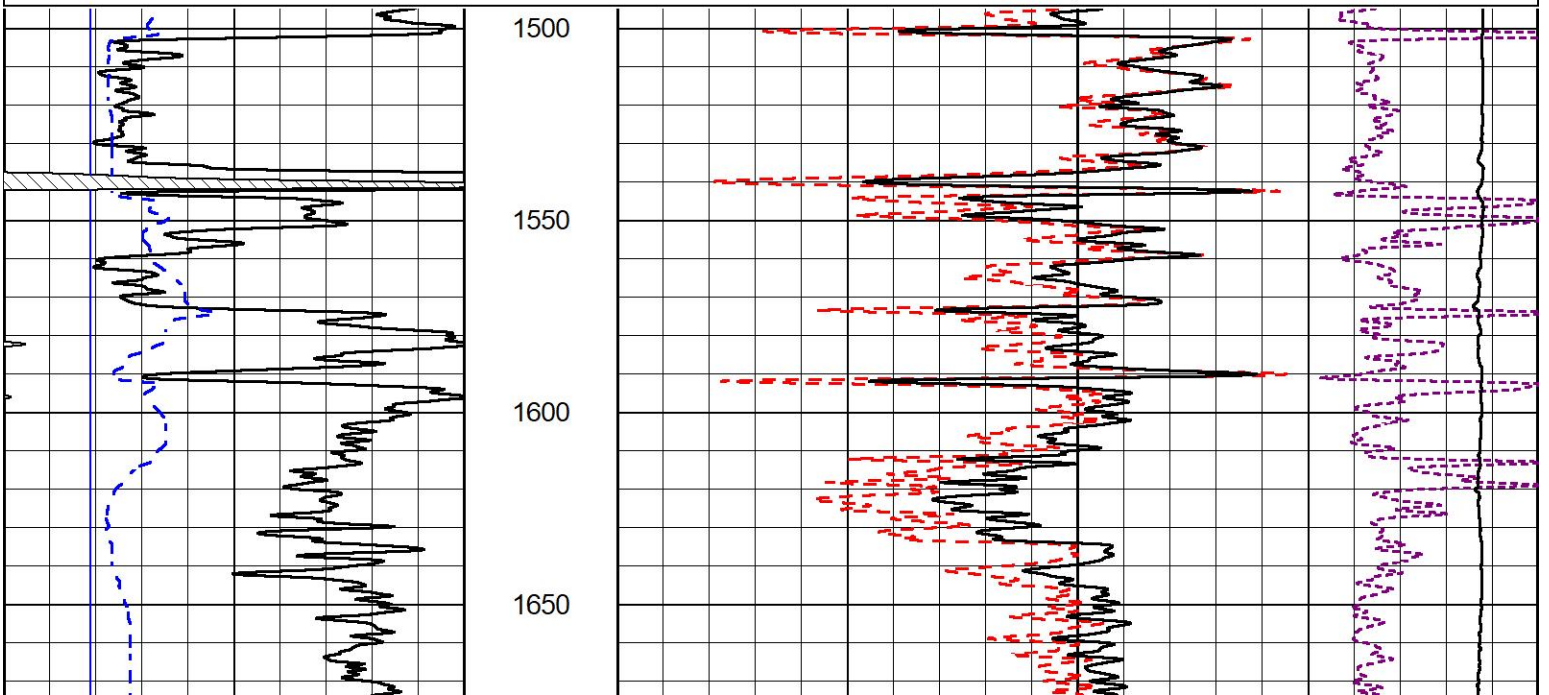
2" SCALE BULK DENSITY

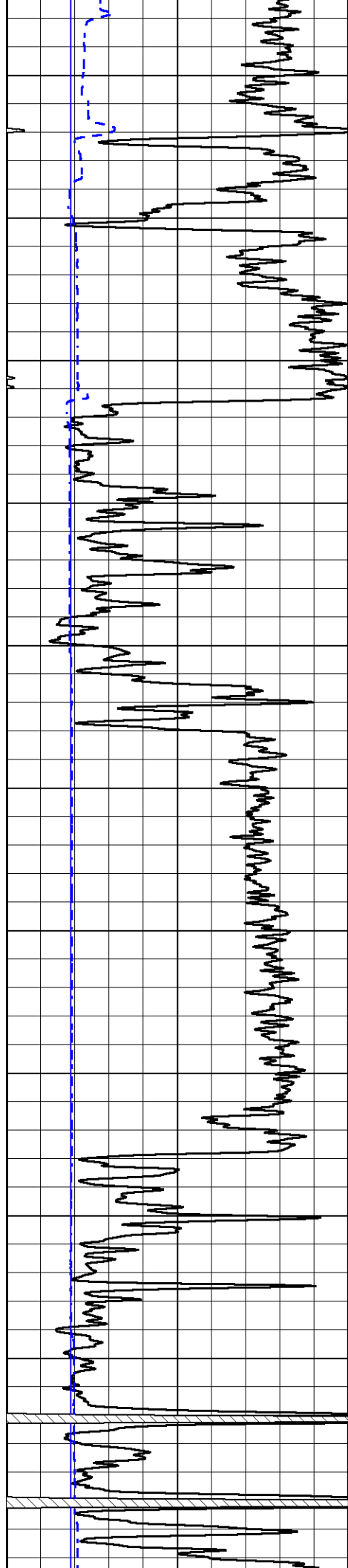
MAIN PASS

Database File epoch_t_wiebe 31-9.db
 Dataset Pathname stkml/pass4.1
 Presentation Format _cdl
 Dataset Creation Tue Dec 07 02:50:34 2021
 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





1700

1750

1800

1850

1900

1950

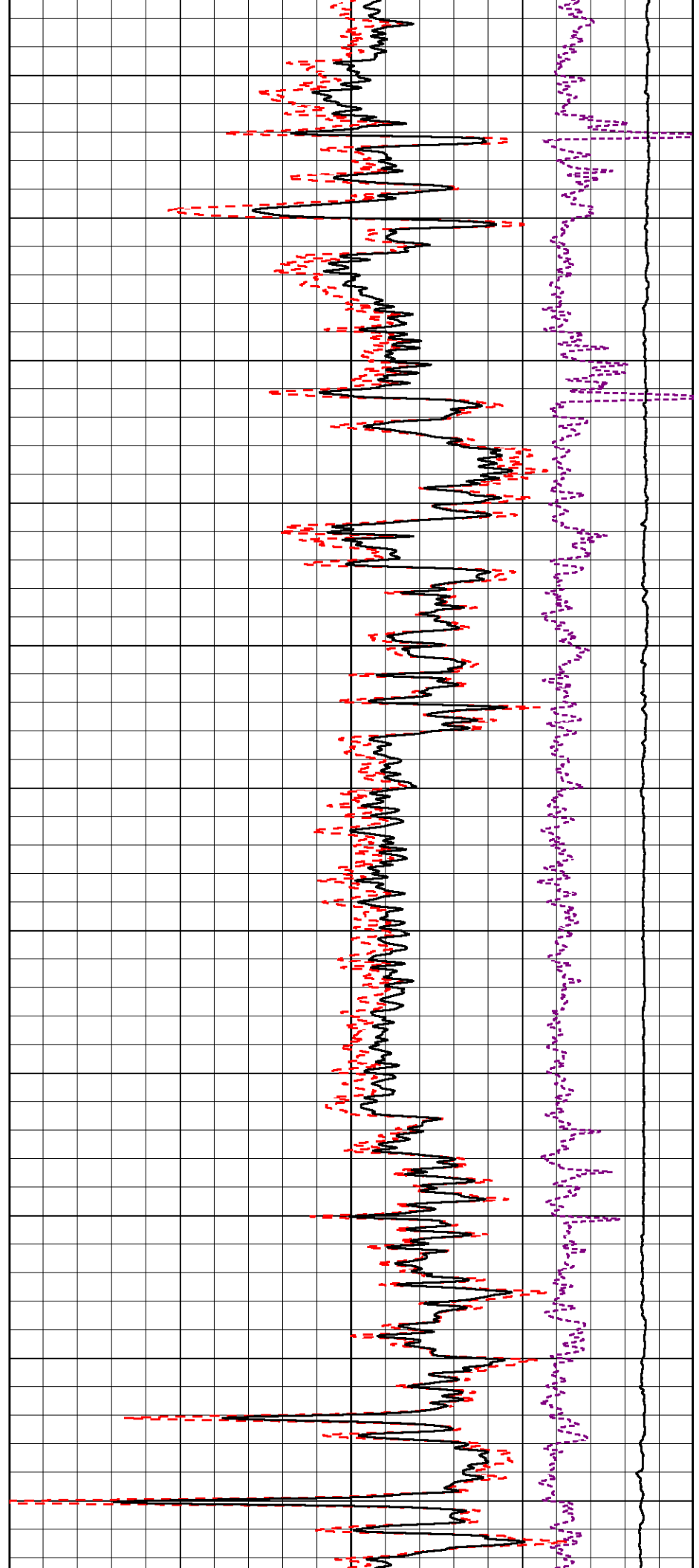
2000

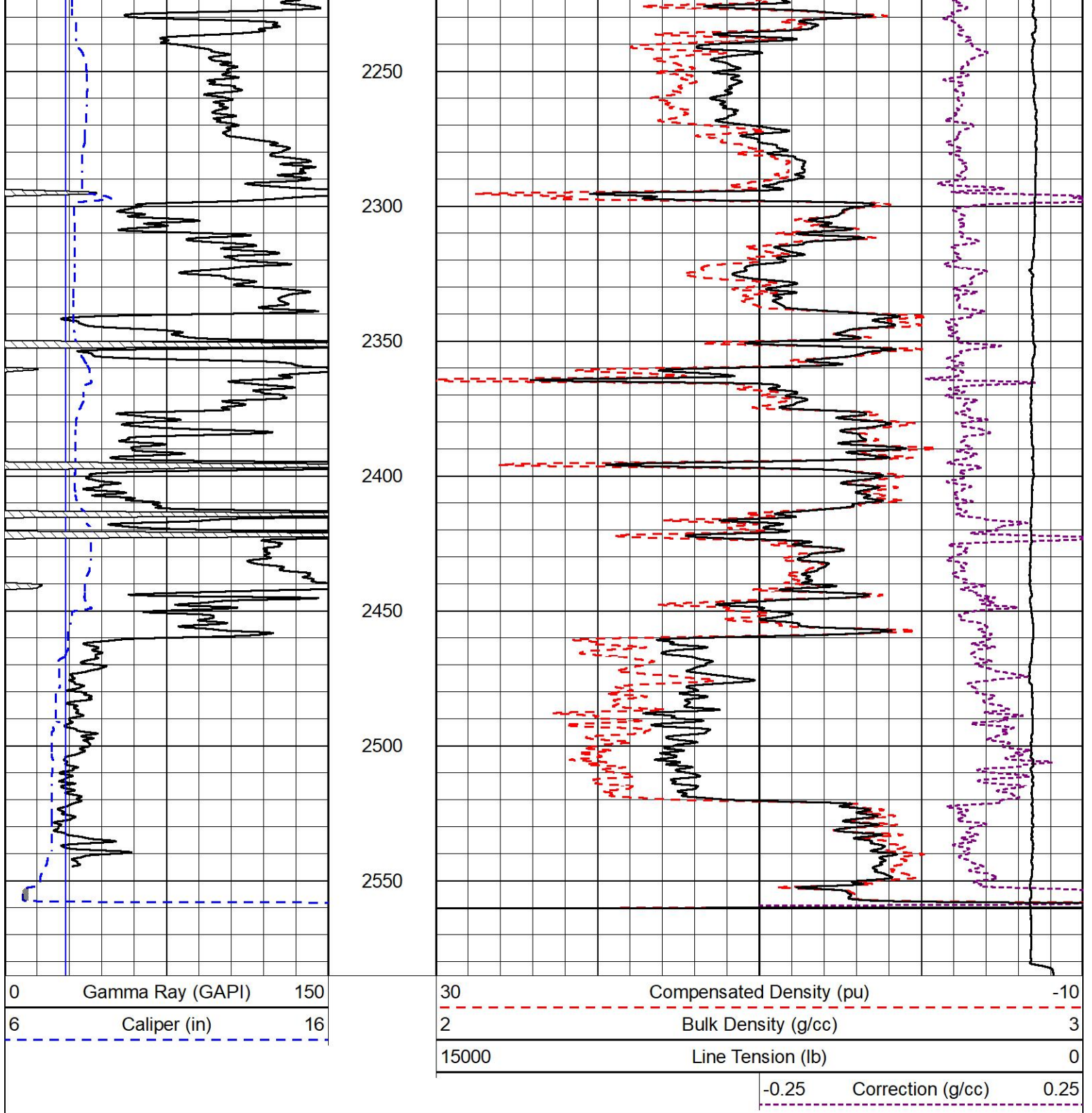
2050

2100

2150

2200





DETAIL SECTION

MAIN PASS

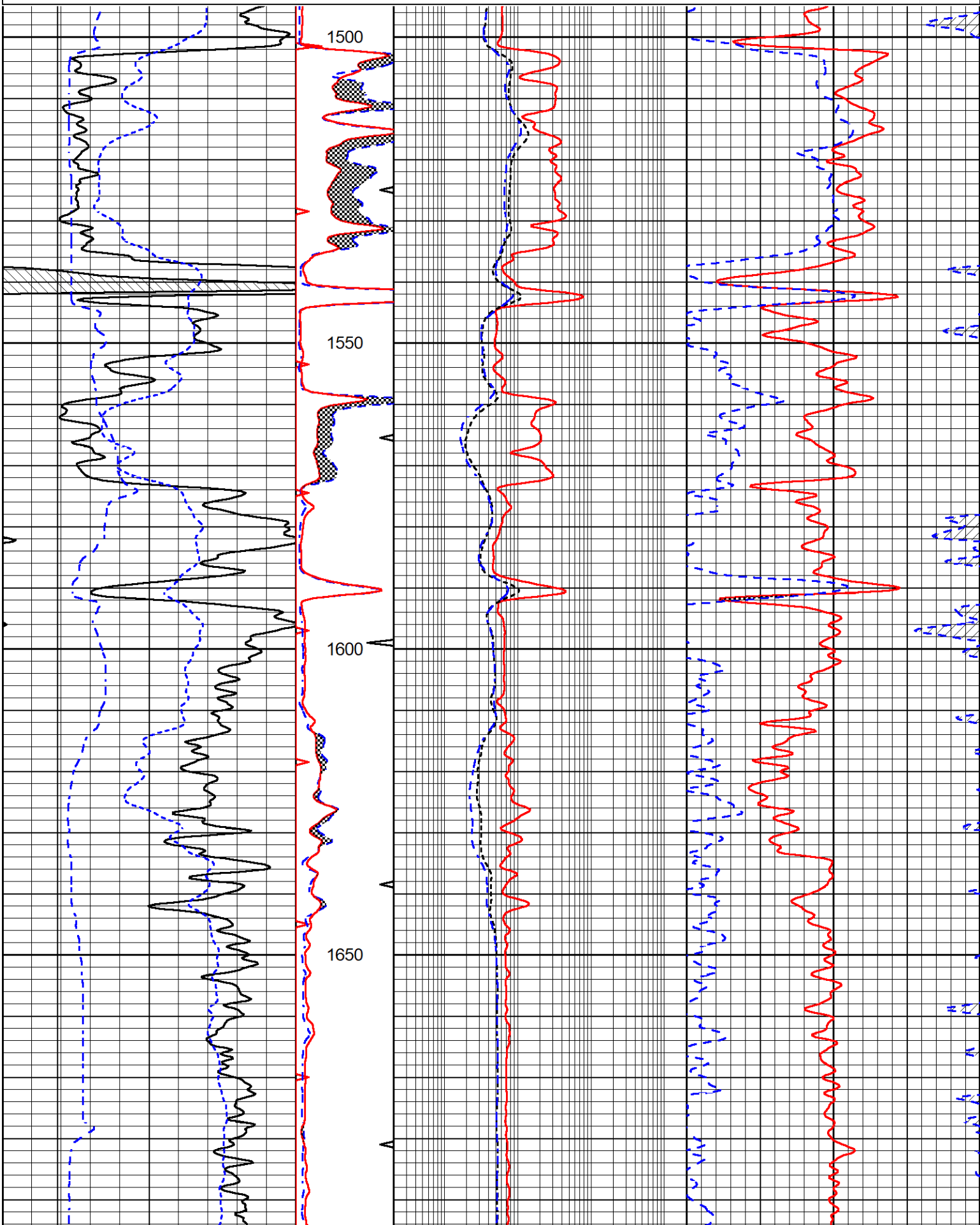
Database File epoch_t wiebe 31-9.db
 Dataset Pathname stkml/pass3.1
 Presentation Format jamex
 Dataset Creation Tue Dec 07 02:47:11 2021
 Charted by Depth in Feet scaled 1:240

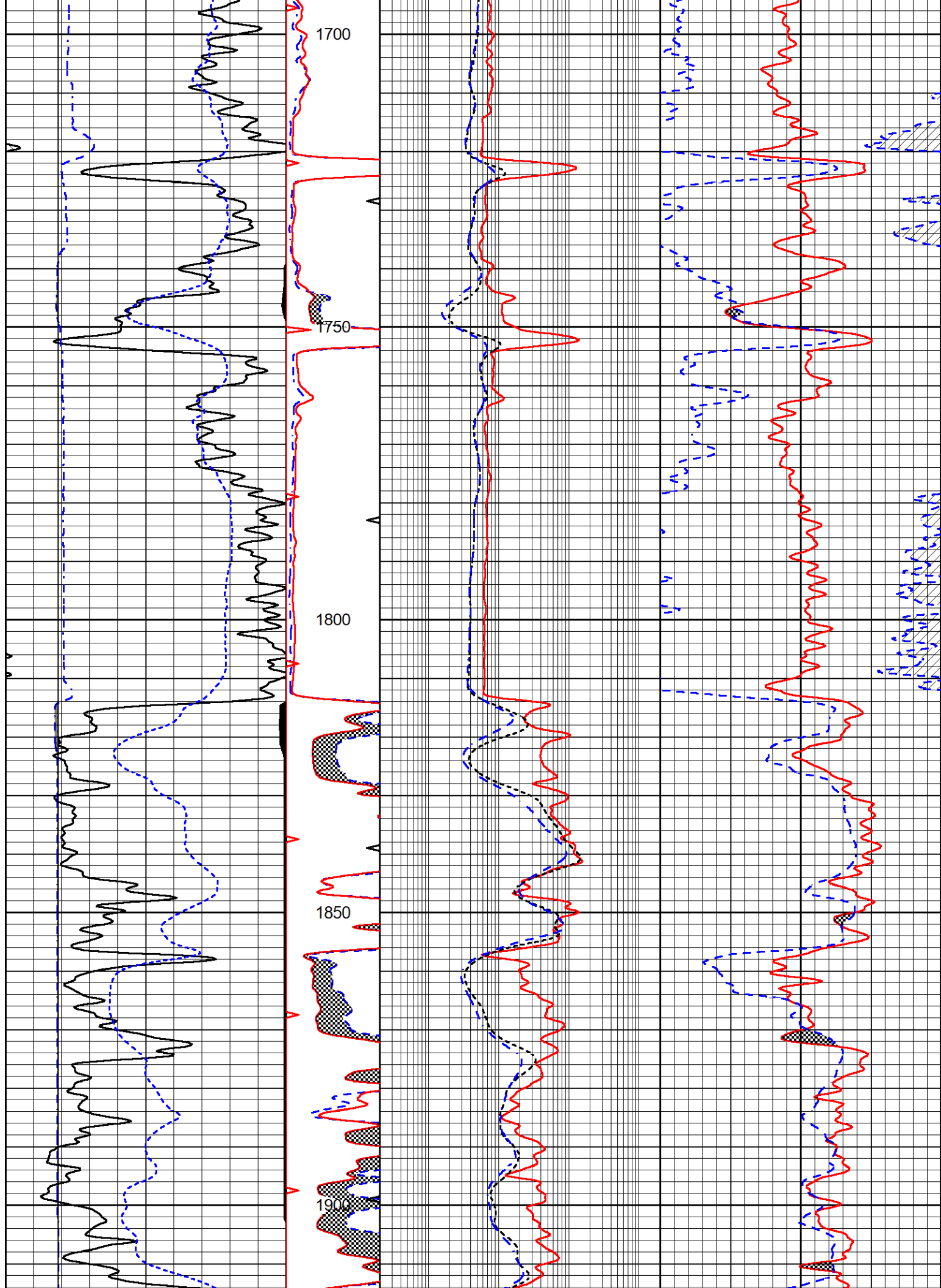
0	Gamma Ray (GAPI)	150		MN		0.2	Shallow Guard (Ohm-m)	2000	30	Density Porosity (pu)	-10
6	Caliper (in)	16	(Ohm-m)		0.2	Medium Induction (Ohm-m)	2000	30	Neutron Porosity (pu)	-10	

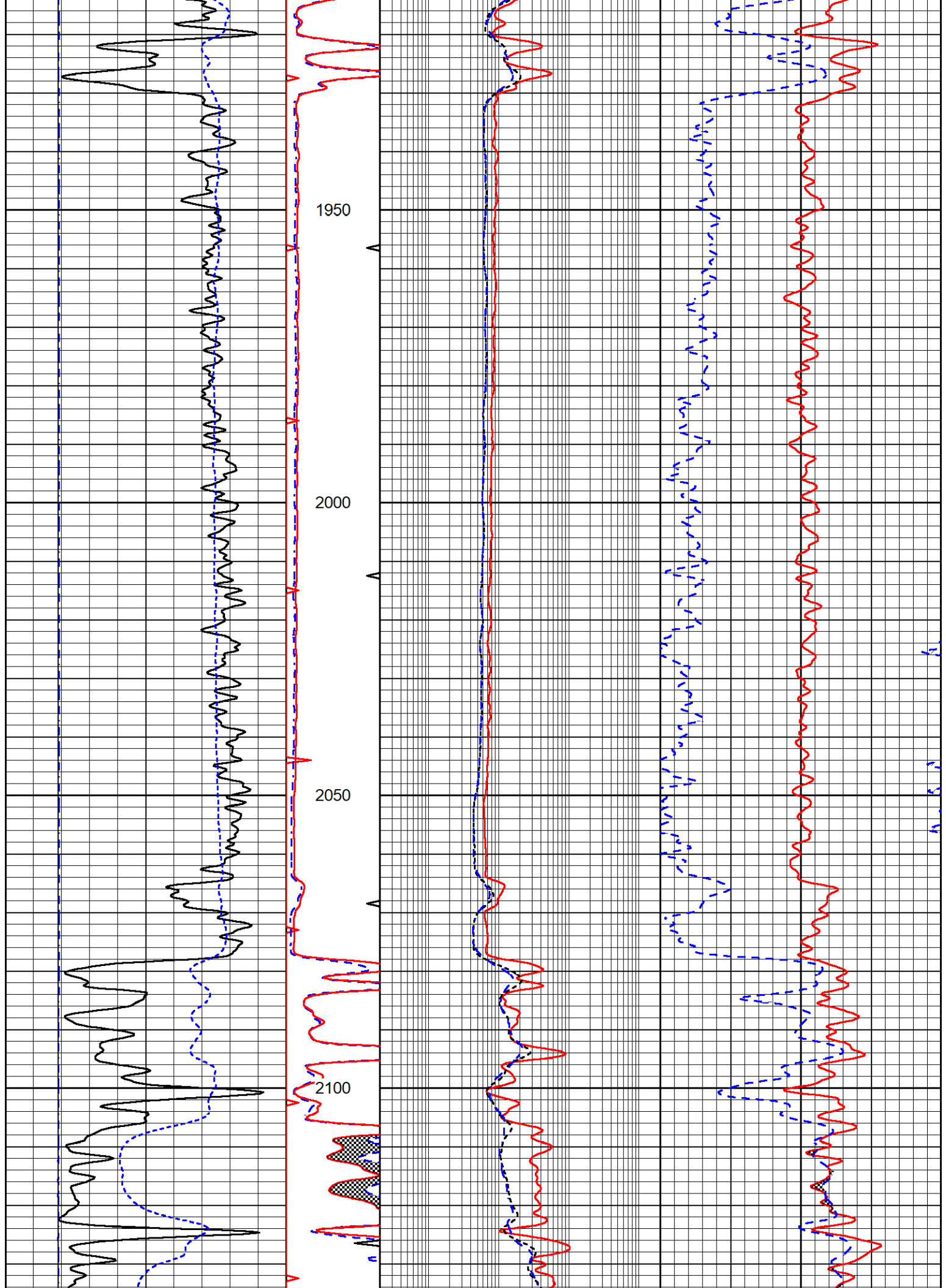
-200 SP (mV) 0 20 0.2 Deep Induction (Ohm-m) 2000

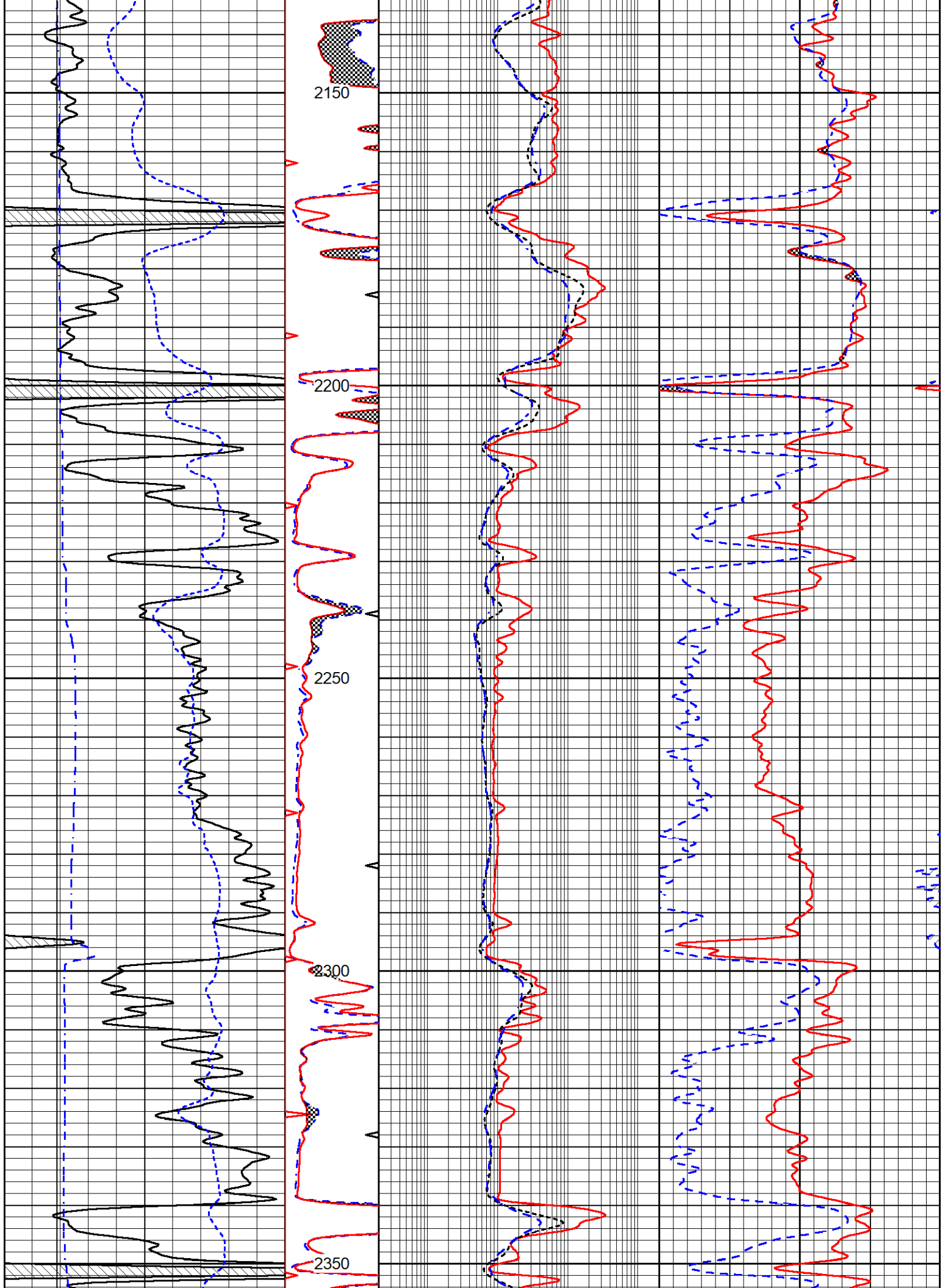
6 Bit Size 16

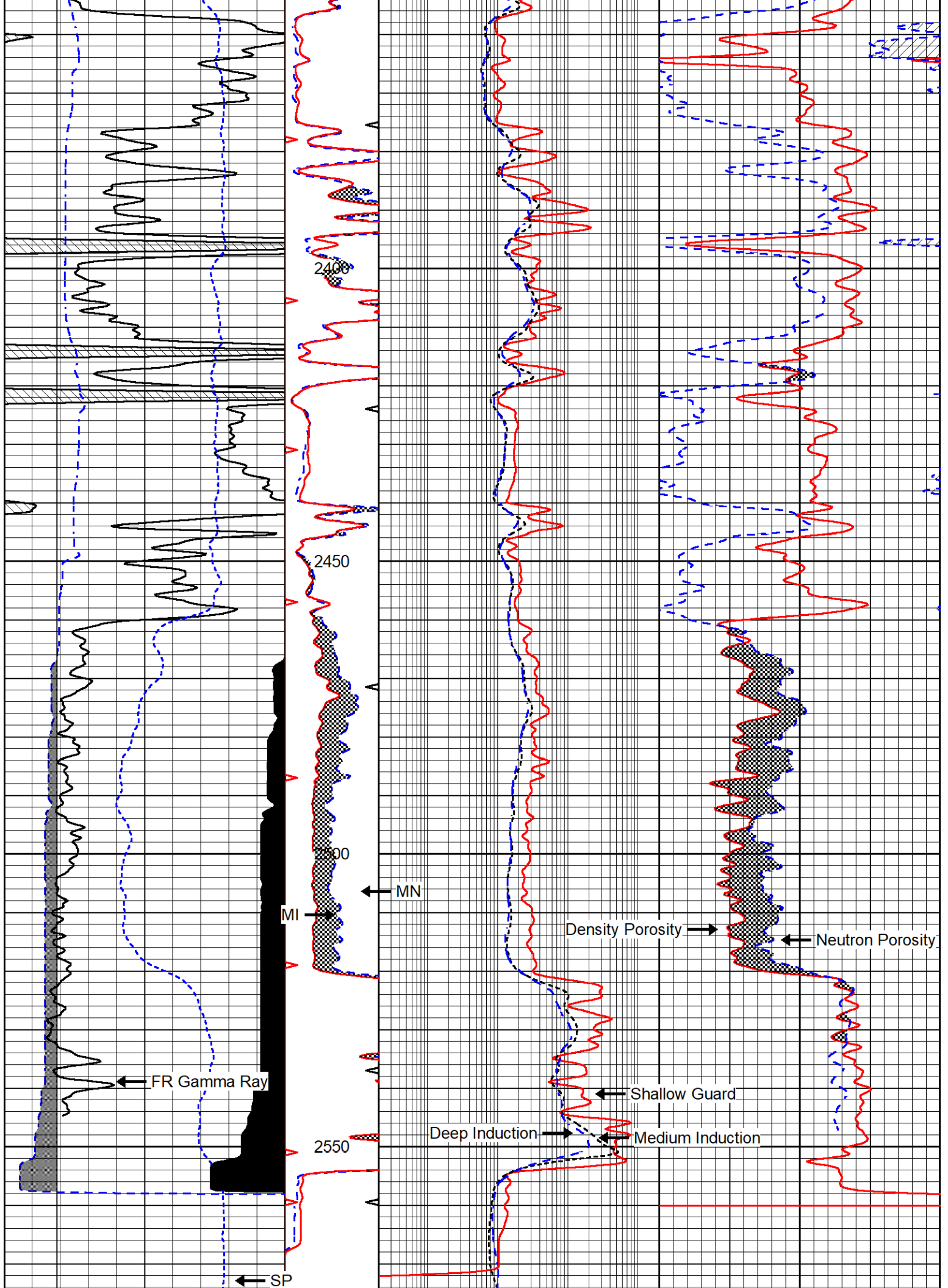
MI
(Ohm-m)
0 20











0	Gamma Ray (GAPI)	150	MN	0.2	Shallow Guard (Ohm-m)	2000	30	Density Porosity (pu)	-10
6	Caliper (in)	16	(Ohm-m)	0.2	Medium Induction (Ohm-m)	2000	30	Neutron Porosity (pu)	-10
-200	SP (mV)	0	0	20	0.2	Deep Induction (Ohm-m)	2000		
6	Bit Size	16	MI						
			(Ohm-m)						
			0	20					



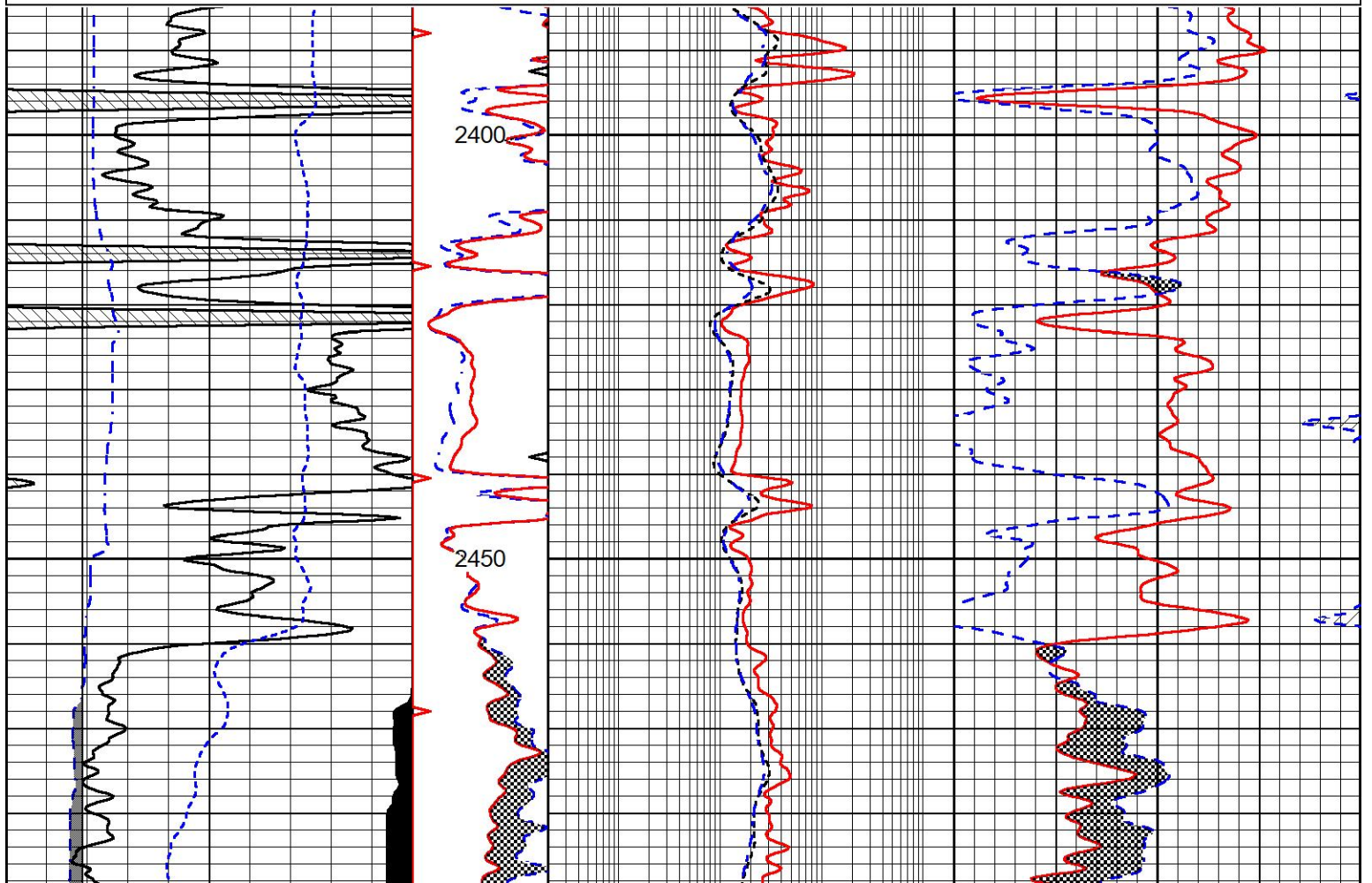
MIDWEST WIRELINE

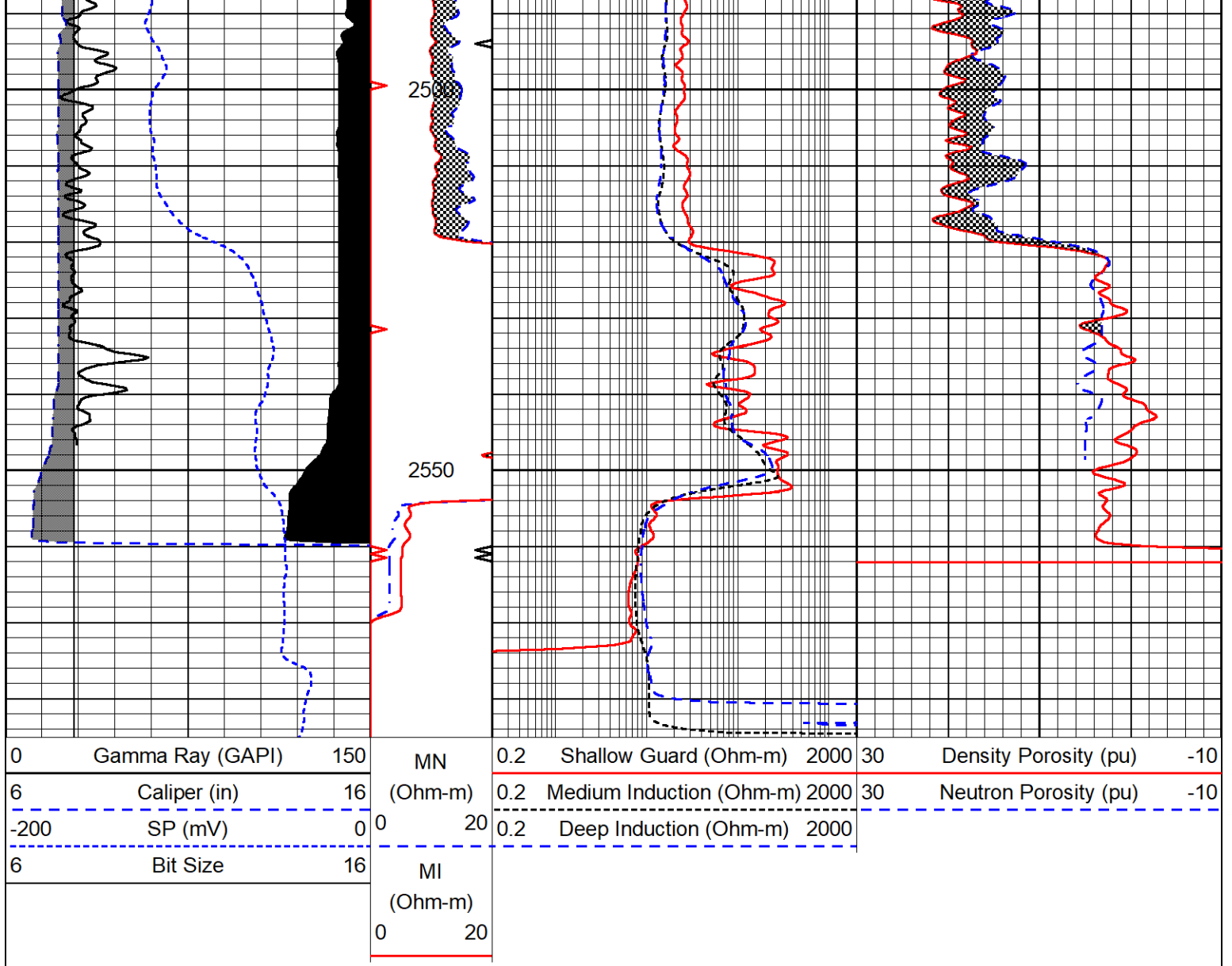
REPEAT SECTION

REPEAT PASS

Database File epoch_t wiebe 31-9.db
 Dataset Pathname stkml/pass2.1
 Presentation Format jamex
 Dataset Creation Tue Dec 07 02:32:05 2021
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	MN	0.2	Shallow Guard (Ohm-m)	2000	30	Density Porosity (pu)	-10
6	Caliper (in)	16	(Ohm-m)	0.2	Medium Induction (Ohm-m)	2000	30	Neutron Porosity (pu)	-10
-200	SP (mV)	0	0	20	0.2	Deep Induction (Ohm-m)	2000		
6	Bit Size	16	MI						
			(Ohm-m)						
			0	20					





Calibration Report

Database File epoch_t wiebe 31-9.db
 Dataset Pathname stklm/pass3.2
 Dataset Creation Tue Dec 07 02:10:03 2021

Dual Induction Calibration Report

Serial-Model: 952-828-PSI HIGH TEMP
 Surface Cal Performed: Thu Nov 18 18:13:13 2021

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop	mmho/m	m	b
Deep	83.639	487.104	0.000	183.000	mmho/m	0.435	-35.500
Medium	113.335	1585.690	0.000	442.000	mmho/m	0.300	-31.023

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
 Performed: Wed Dec 1 16:06:14 2021

Zero	Readings		References		Results	
	Cal		Zero	Cal	m	b

Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	10000.0000	-0.5000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	9000.0000	0.0000
Caliper	1.0052	1.0858	5.0000	16.5000	in	142.7190	-139.2250

Compensated Density Calibration Report

Serial-Model: 934-226-M&W
Source #: 20762B
Master Calibration Performed: Tue Nov 16 13:52:04 2021

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	3330.50	2332.69	cps
Aluminum	2.660	g/cc	627.41	1482.87	cps
Spine Angle = 74.82			Density/Spine Ratio = 0.523		
	Size		Reading		
Small Ring	8.00	in	1.16		
Large Ring	13.00	in	1.01		

Compensated Neutron Calibration Report

Serial-Model: 207-MW-M&W
Source #: 100046B
Master Calibration Performed: Mon Nov 29 15:06:24 2021

Master Calibration

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: 233-M&W
Tool Model: M&W
Performed: Fri Dec 3 15:10:46 2021

Calibrator Value: 500.0 GAPI

Background Reading: 24.0 cps
Calibrator Reading: 637.0 cps

Sensitivity: 0.5500 GAPI/cps



Company EPOC, LLC
Well T Wiebe #31-9
Field Hazlett
County Butler
State Kansas