



DUAL COMP POROSITY LOG

MIDWEST WIRELINE

CompanyBlake Exploration, LLC
WellRoberts #2
FieldLeSage West
CountyGraham
StateKansas

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Location: API #: 15-065-24316-0000
N2 S2 NW/NE
800 FNL & 3300FWL
SEC 12 TWP 7S RGE 21W
Permanent Datum Ground Level Elevation 2112
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing
Other Services
DIL/MEL
K.B. 2120
D.F.
G.L. 2112

Date07/02/2024

Run NumberOne
Type LogCNL/CDL
Depth Driller3623
Depth Logger3620
Bottom Logged Interval3591
Top Logged Interval3000
Type Fluid In HoleChemical
Salinity, PPM CL2200
Density9.2
LevelFull
Max. Rec. Temp. F112
Operating Rig Time3 Hours
Equipment -- LocationP-108 HAYS
Recorded ByJustin Trout
Witnessed ByMike Davignon

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	0	222	8.625	23	0	222
Two	7.875	222	TD				

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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.

Nicodemus, Ks
West to 390th, 5 1/2 North
1/2 East South into

Log Measured From: Kelly Bushing 8 Ft. Above Permanent Datum

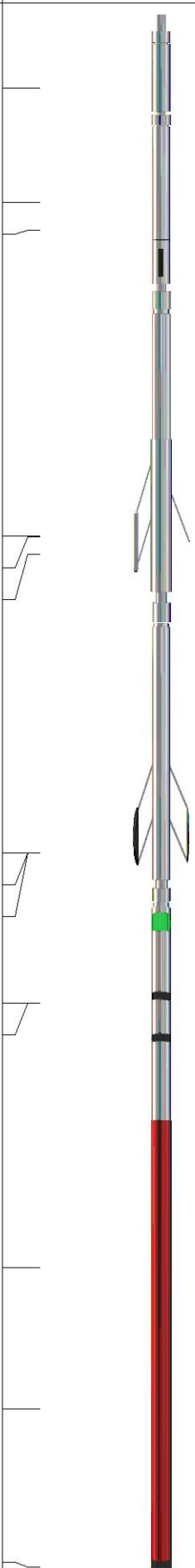
THANK YOU FOR USING MIDWEST WIRELINE LLC
785-625-3858

Your Midwest Wireline Crew

Engineer: Justin Trout
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Mike Davignon
Secondary Witness:
Secondary Witness:
Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)	
GR	40.33		GR-M&W (105)	3.00	3.50	50.00	
CNLSC CNSSC	37.23 36.48		CNT-M&W (207)	5.00	3.50	100.00	
LSD DCAL SSD	28.18 28.17 27.68		CDL-M&W (305-24)	8.50	4.00	250.00	
MCAL MI MN	19.58 19.58 19.58		ML-PSIML (401)	7.58	4.00	65.00	
RLL3F RLL3	15.50 15.50						
CILD	8.33		DIL-M&W (507)	18.25	3.50	220.00	
CILM	4.50						
SP	0.20						
Dataset: blake exploration llc_roberts #2.db: field/well/STKML/pass3.1 Total length: 42.33 ft Total weight: 685.00 lb O.D.: 4.00 in							

Log Variables

DatabaseC:\ProgramData\Warrior\Data\blake exploration llc_roberts #2.db
Dataset field/well/STKML/pass3.1/_vars_

Top - Bottom

BOREID in 7.875	BOTTEMP degF 112	CASEOD in 4.5	CASETHCK in 0	FLUIDDEN g/cc 1	MATRXDEN g/cc 2.71	NPORSEL Limestone	PERFS No
SNDERR mmho/m 0.75	SNDERRM mmho/m -3.5	SPSHIFT mV 417	SRFTEMP degF 80	SZCOR Off	TDEPTH ft 3620		

Variable Description

BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
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



MIDWEST WIRELINE

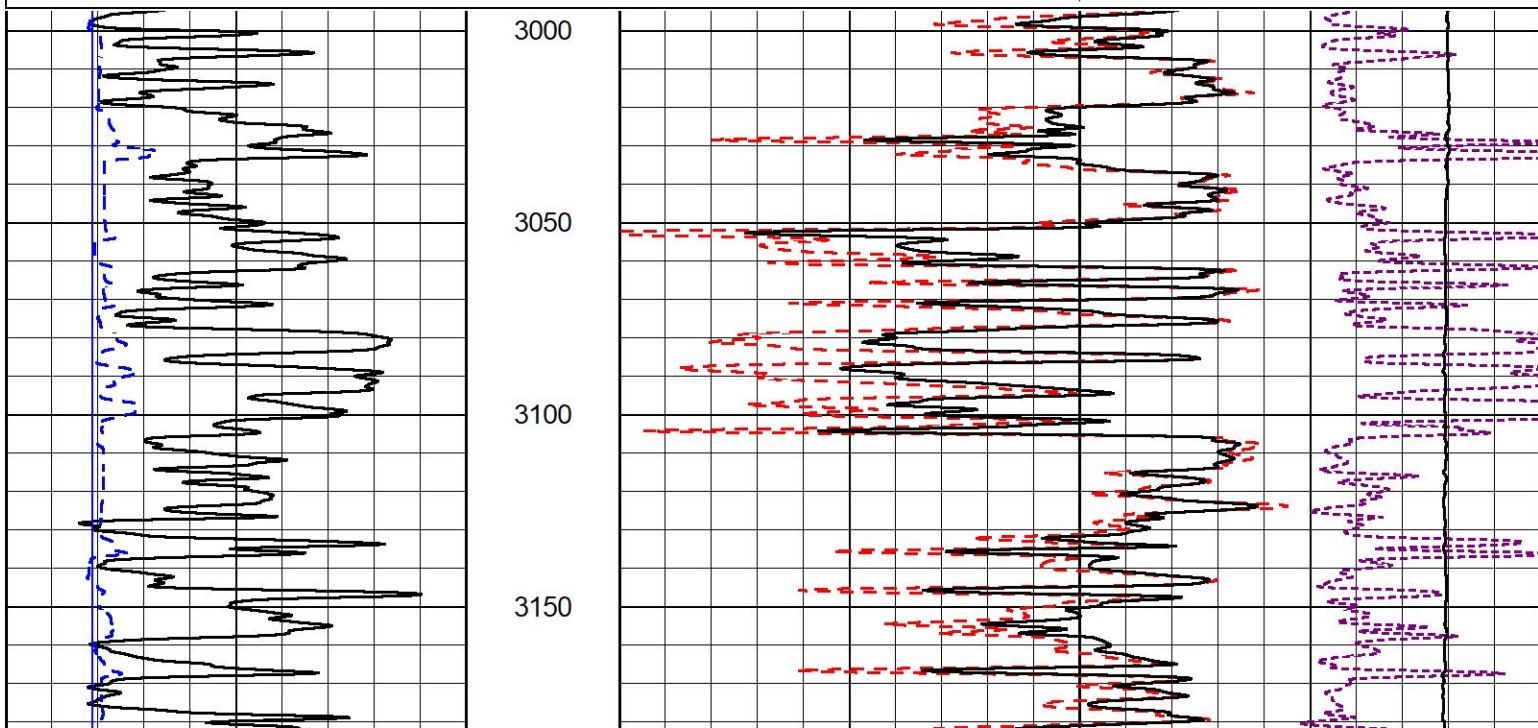
2" SCALE BULK DENSITY

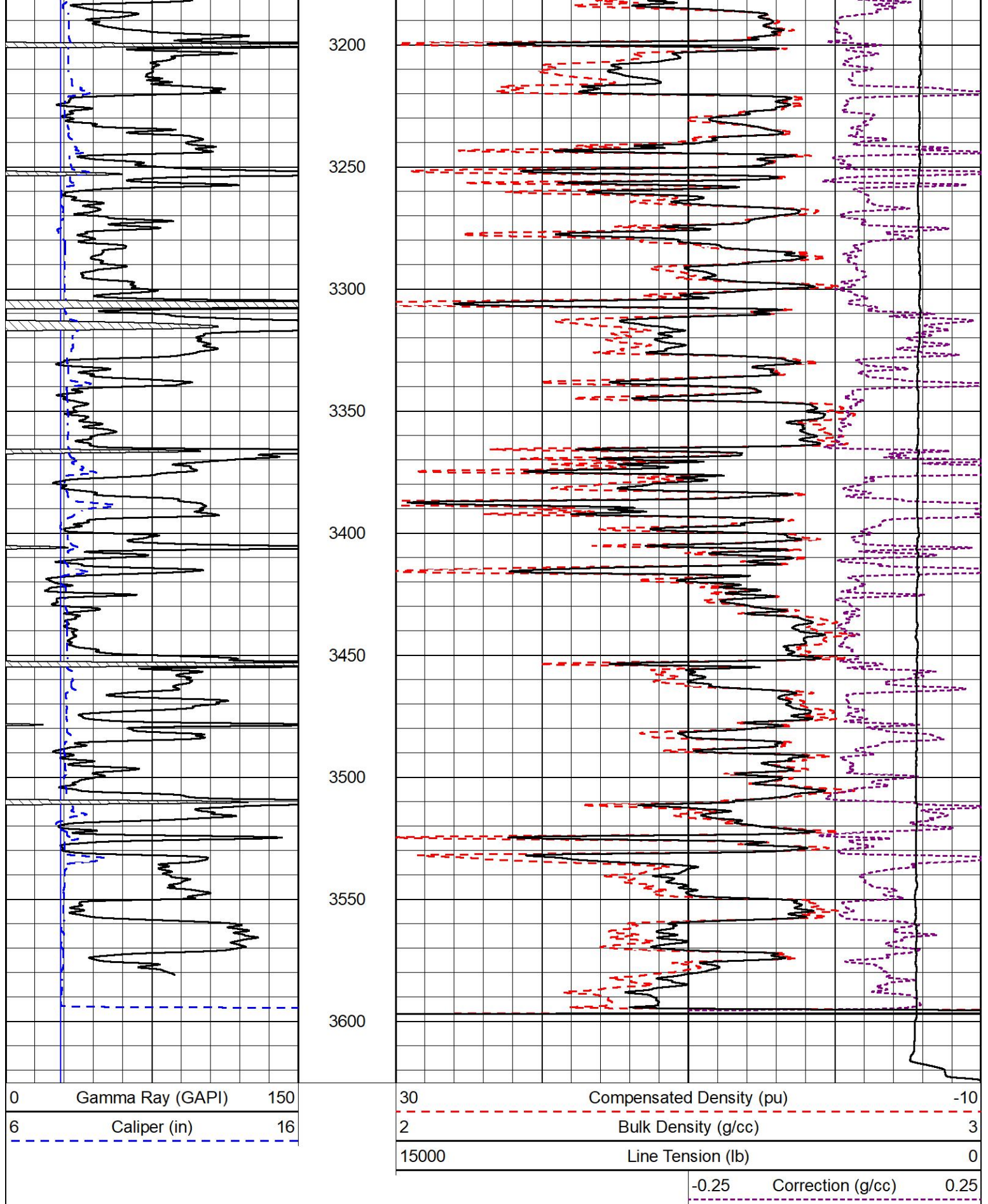
MAIN PASS

Database File blake exploration llc_roberts #2.db
Dataset Pathname STKML/pass3.2
Presentation Format _cdl
Dataset Creation Tue Jul 02 02:31:18 2024
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





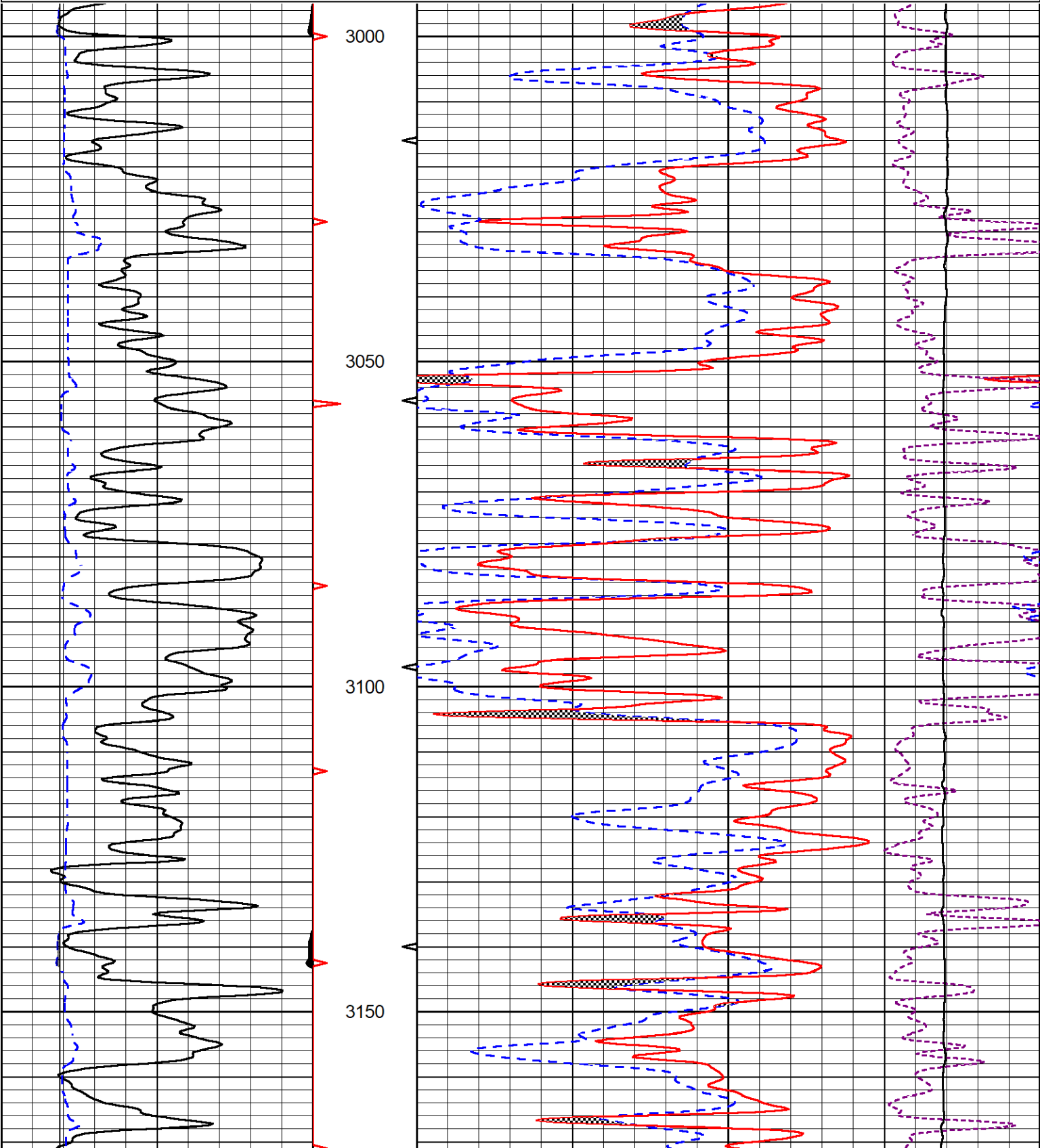
DETAIL SECTION

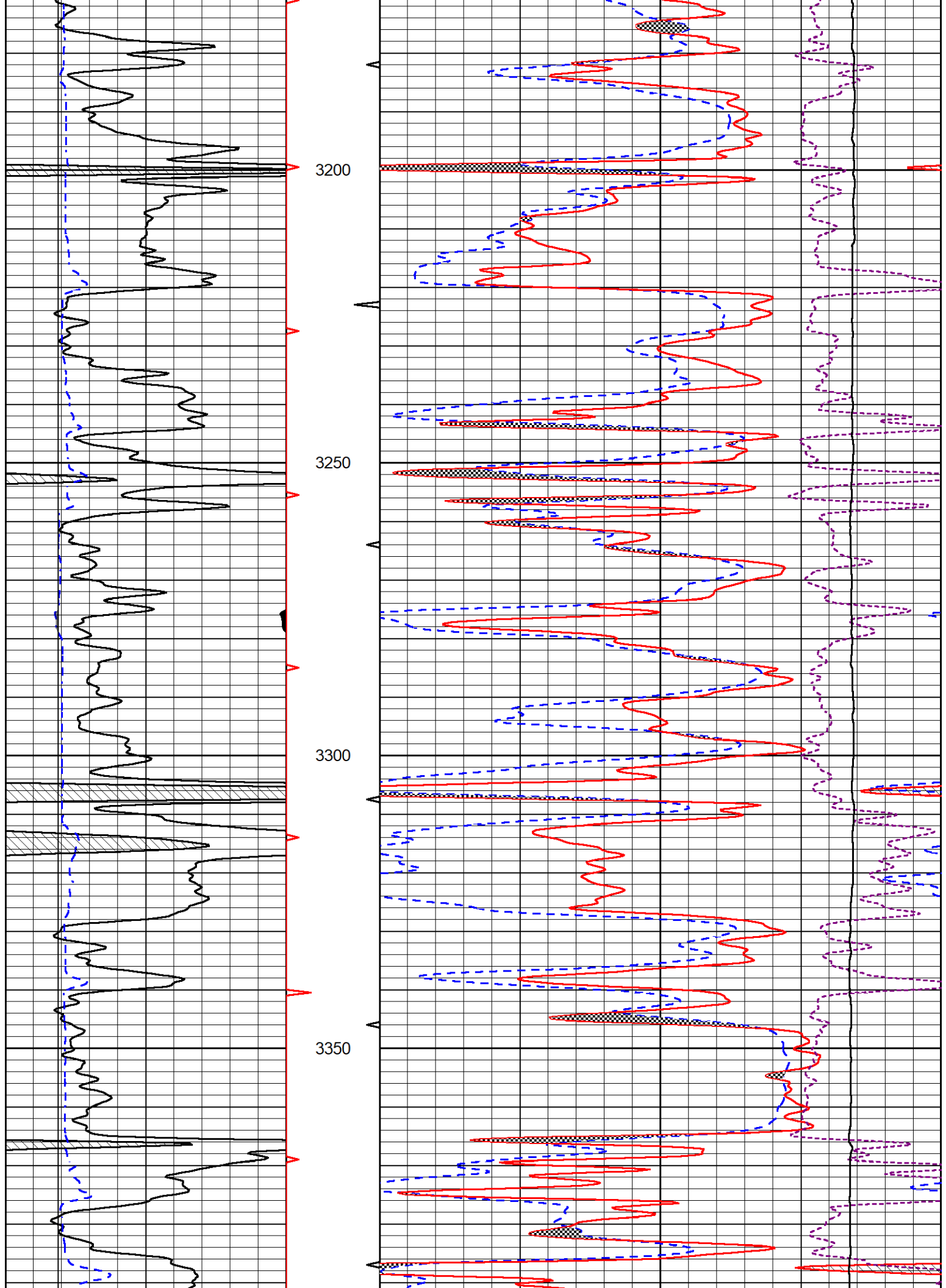
MAIN PASS

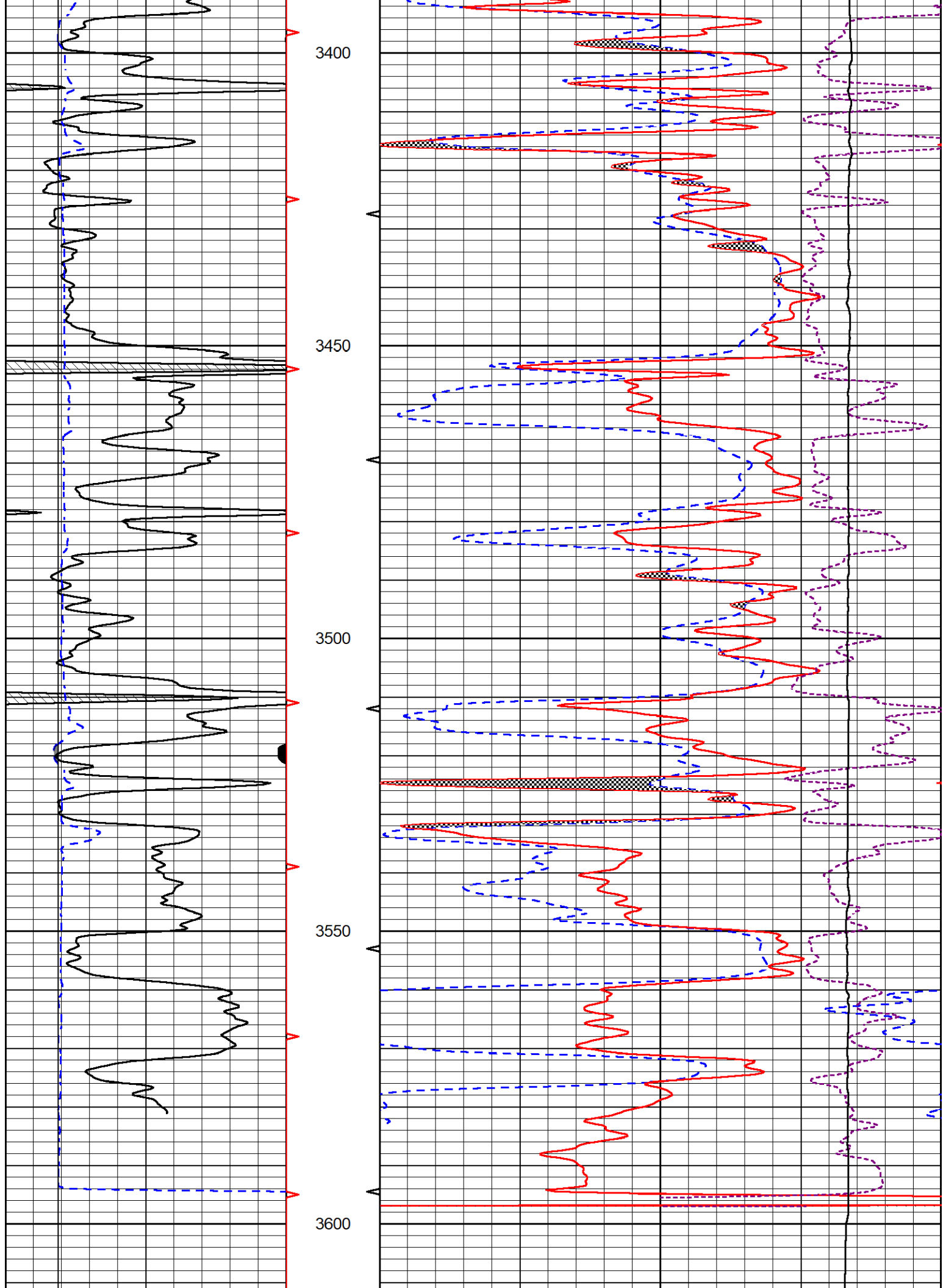
Database File blake exploration llc_roberts #2.db
Dataset Pathname STKML/pass3.1
Presentation Format _CNDLS~1
Dataset Creation Tue Jul 02 02:46:01 2024
Charted by Depth in Feet scaled 1:240

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

30	Compensated Neutron (pu)	-10
30	Compensated Density (pu)	-10
10000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25







0	Gamma Ray (GAPI)	150	30	Compensated Neutron (pu)	-10
6	Caliper (in)	16	30	Compensated Density (pu)	-10
			10000	Line Tension (lb)	0
			-0.25	Correction (g/cc)	0.25



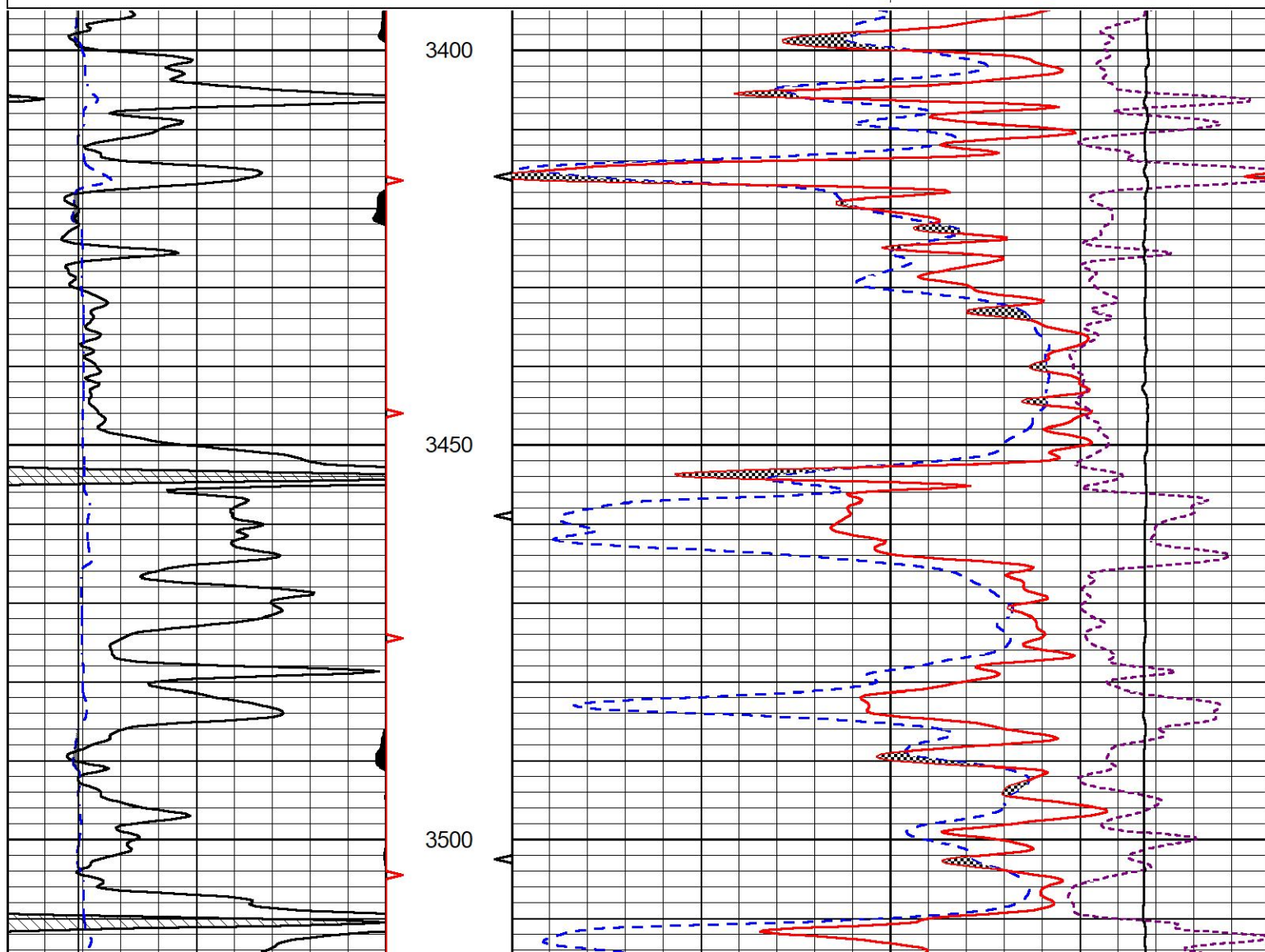
MIDWEST WIRELINE

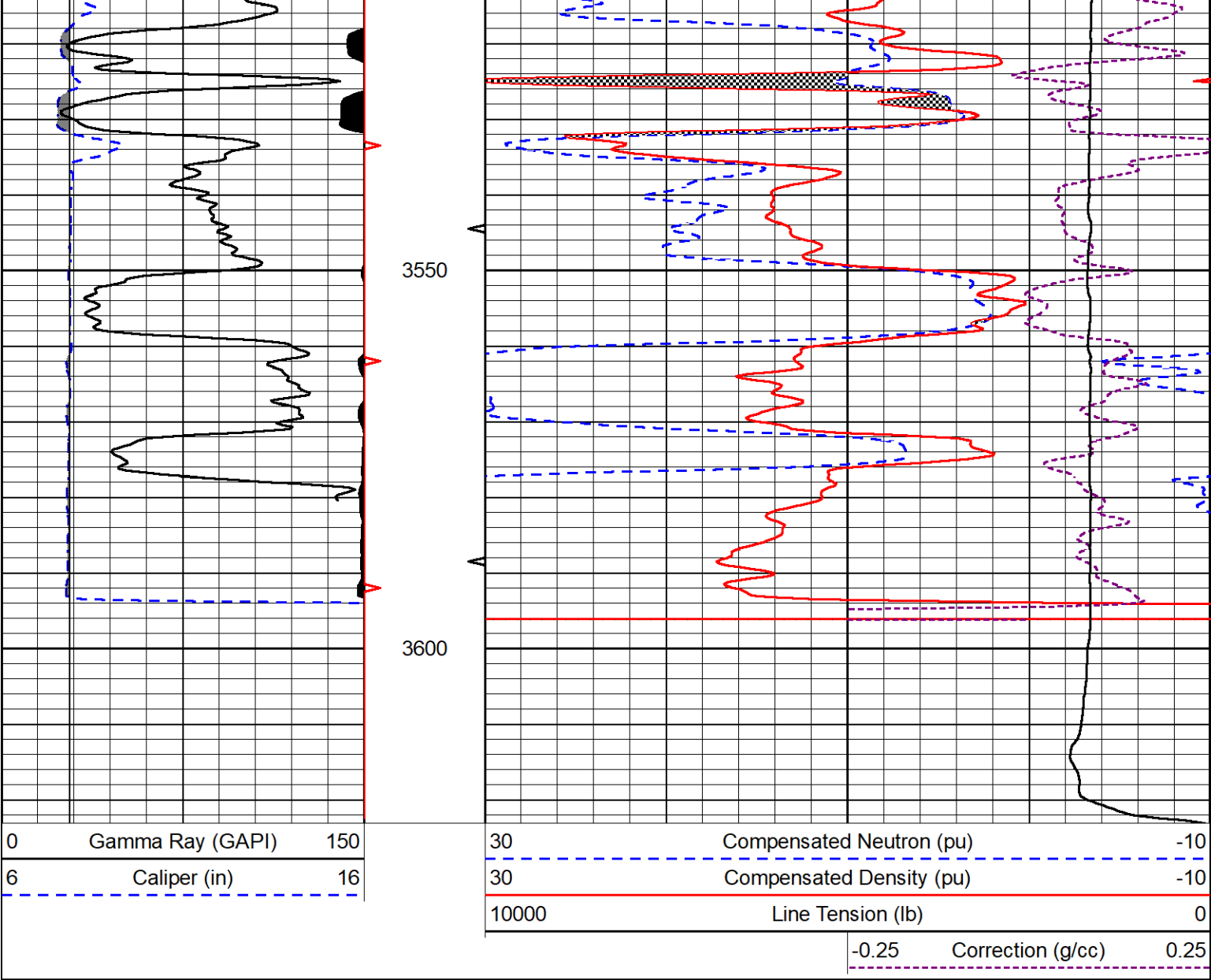
REPEAT SECTION

REPEAT PASS

Database File blake exploration llc_roberts #2.db
Dataset Pathname STKML/pass2.1
Presentation Format _CNDLS~1
Dataset Creation Tue Jul 02 02:55:01 2024
Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	30	Compensated Neutron (pu)	-10
6	Caliper (in)	16	30	Compensated Density (pu)	-10
			10000	Line Tension (lb)	0
			-0.25	Correction (g/cc)	0.25





Calibration Report							
Database File	blake exploration llc_roberts #2.db						
Dataset Pathname	STKML/pass3.1						
Dataset Creation	Tue Jul 02 02:46:01 2024						
Dual Induction Calibration Report							
Serial-Model:				507-M&W			
Surface Cal Performed:				Fri Jul 14 14:17:56 2023			
Readings			References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	68.570	638.100	0.000	255.800	mmho/m	0.500	-37.000
Medium	184.288	716.191	0.000	255.800	mmho/m	0.450	-79.000
Microlog Calibration Report							
Serial-Model:				401-PSIML			
Performed:				Wed Jun 12 18:17:09 2024			
Readings			References			Results	

	Zero	Cal		Zero	Cal		m	b
Normal	0.0000	1.0000		0.0000	1.0000	Ohm-m	15000.0000	-0.5000
Inverse	0.0000	1.0000		0.0000	1.0000	Ohm-m	22000.0000	-1.5000
Caliper	1.0052	1.0858		5.0000	16.5000	in	142.7190	-139.1500

Compensated Density Calibration Report	
Serial-Model:	305-24-M&W
Source #:	20762B
Master Calibration Performed:	Wed May 15 13:00:44 2024

Master Calibration					
	Density		Far Detector	Near Detector	
Magnesium	1.680	g/cc	4998.33	5705.34	cps
Aluminum	2.580	g/cc	1098.93	3899.02	cps
Spine Angle = 75.89			Density/Spine Ratio = 0.576		
	Size		Reading		
Small Ring	4.00	in	1.74		
Large Ring	14.00	in	1.38		

Compensated Neutron Calibration Report	
Serial Number:	207
Tool Model:	M&W

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:	105	
Tool Model:	M&W	
Performed:	Mon Aug 7 20:46:01 2023	
Calibrator Value:	500.0	GAPI
Background Reading:	24.0	cps
Calibrator Reading:	637.0	cps
Sensitivity:	0.6000	GAPI/cps

 MIDWEST WIRELINE	Company	Blake Exploration, LLC
	Well	Roberts #2
	Field	LeSage West
	County	Graham
	State	Kansas