



RADIATION GUARD LOG

MIDWEST WIRELINE

Company Berexco, LLC	
Well	Robb #4
Field	
County	Gove
State	Kansas
Location: API #: 15-063-22445-00-00	
SEC 6 TWP 15S RGE 29W	
Permanent Datum	Ground Level
Log Measured From	Kelly Bushing
Drilling Measured From	Kelly Bushing
Elevation	2576
Other Services	CNL/CDL DIL/MEL
Elevation	2586
D.F.	
G.L.	2576
Date	6/30/2024
Run Number	One
Depth Driller	4330
Depth Logger	4332
Bottom Logged Interval	4331
Top Log Interval	3400
Casing Driller	8.625 @ 403
Casing Logger	399
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity ppm CL	3600
Density / Viscosity	9.1 58
pH / Fluid Loss	10.0 7.2
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.70 @ 78
Rmt @ Meas. Temp	0.53 @ 78
Rmc @ Meas. Temp	0.95 @ 78
Source of Rmt / Rmc	CHARTS
Rm @ BHT	0.46 @ 119
Operating Rig Time	3 Hours
Max Rec. Temp. F	119
Equipment Number	110
Location	HAYS
Recorded By	D. Schmidt
Witnessed By	Larry Friend

<<< 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.

Gove,
South to C Rd, 5 West to Rd 32,
North to E Rd, East to Rd 36, 1 North,
West into

Log Measured From: Kelly Bushing

10 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: Larry Friend
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\berexco_robb 4.db
Dataset field/well/stkml/pass3.1/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 119	in 5.5	in 0	g/cc 1	2	g/cc 2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	No	mmho/m 1.5	mmho/m -6	mV 140	degF 75	Off	ft 4332

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

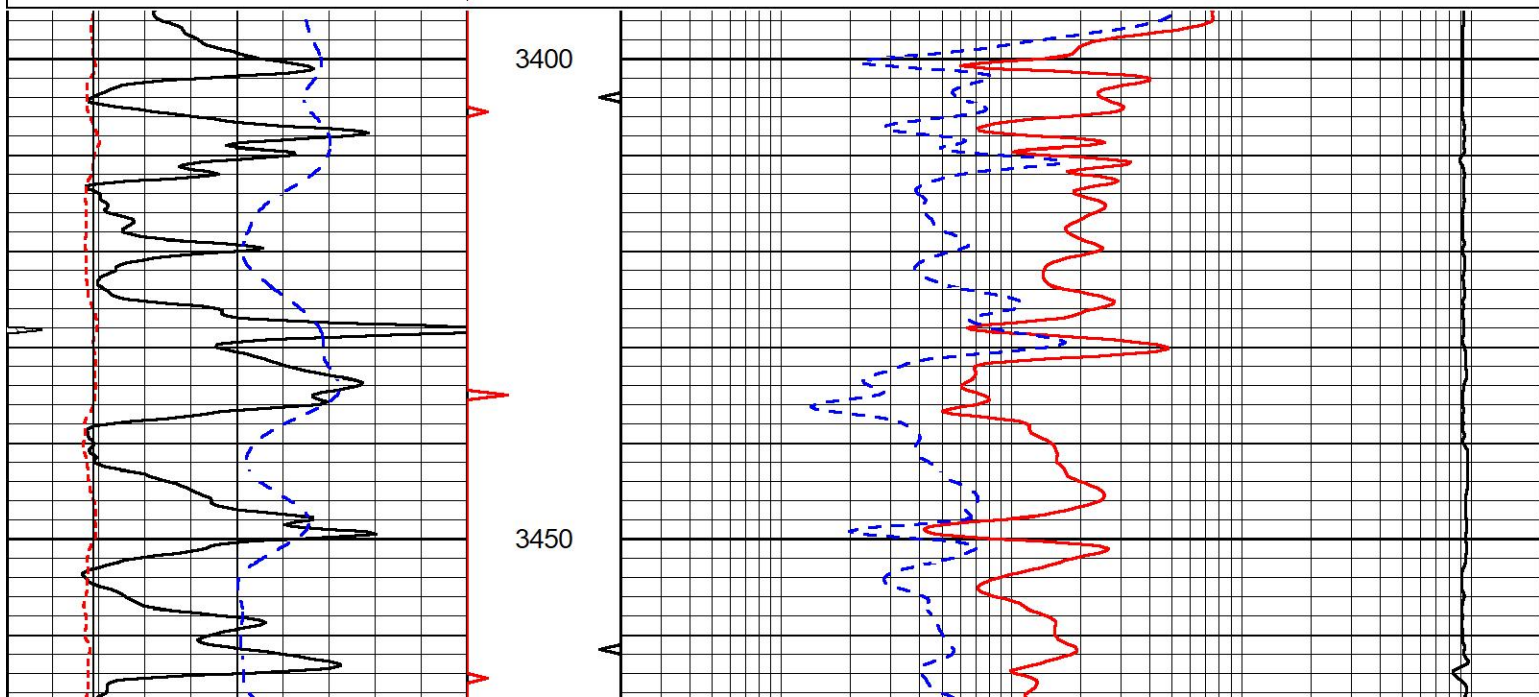


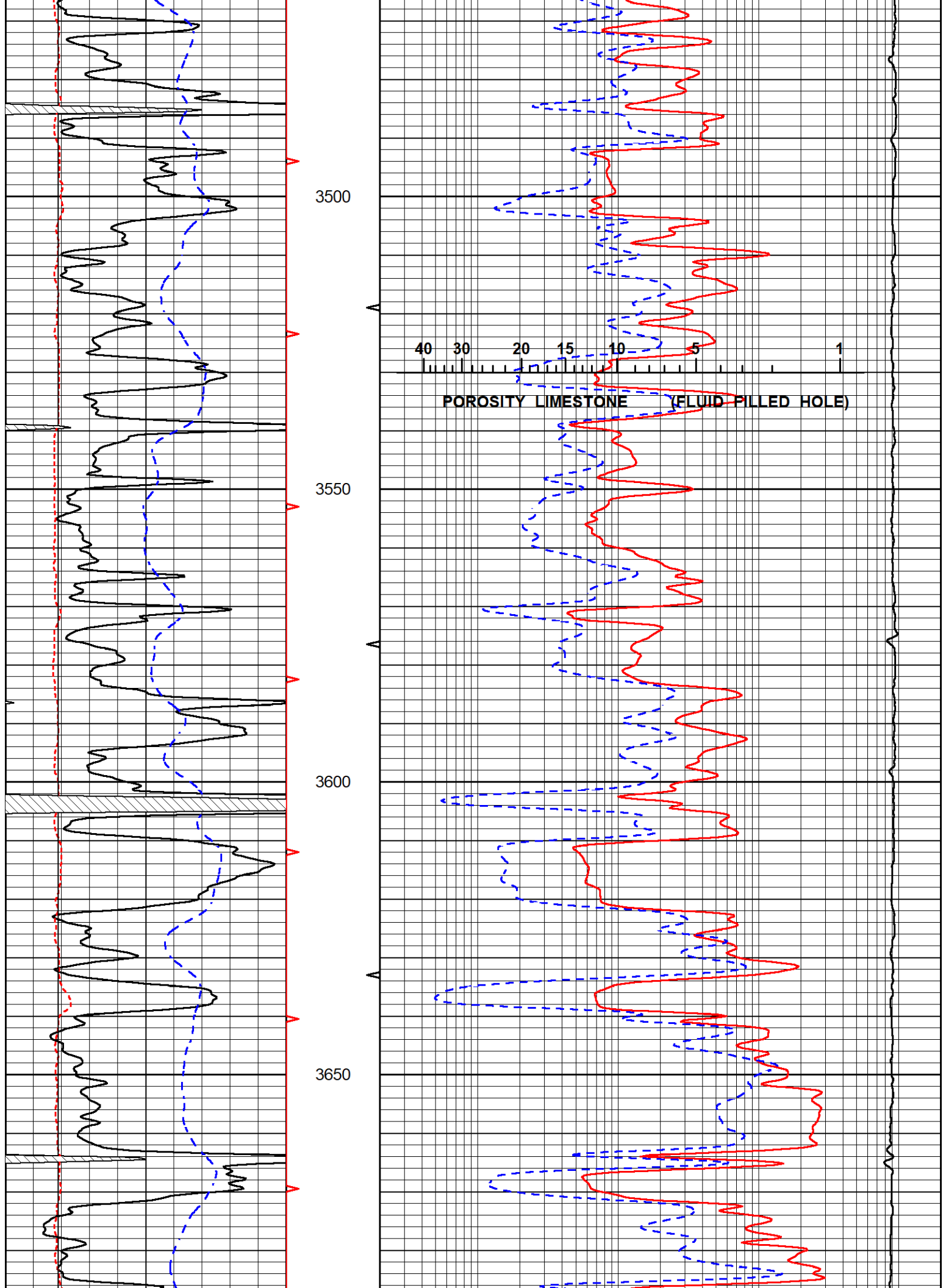
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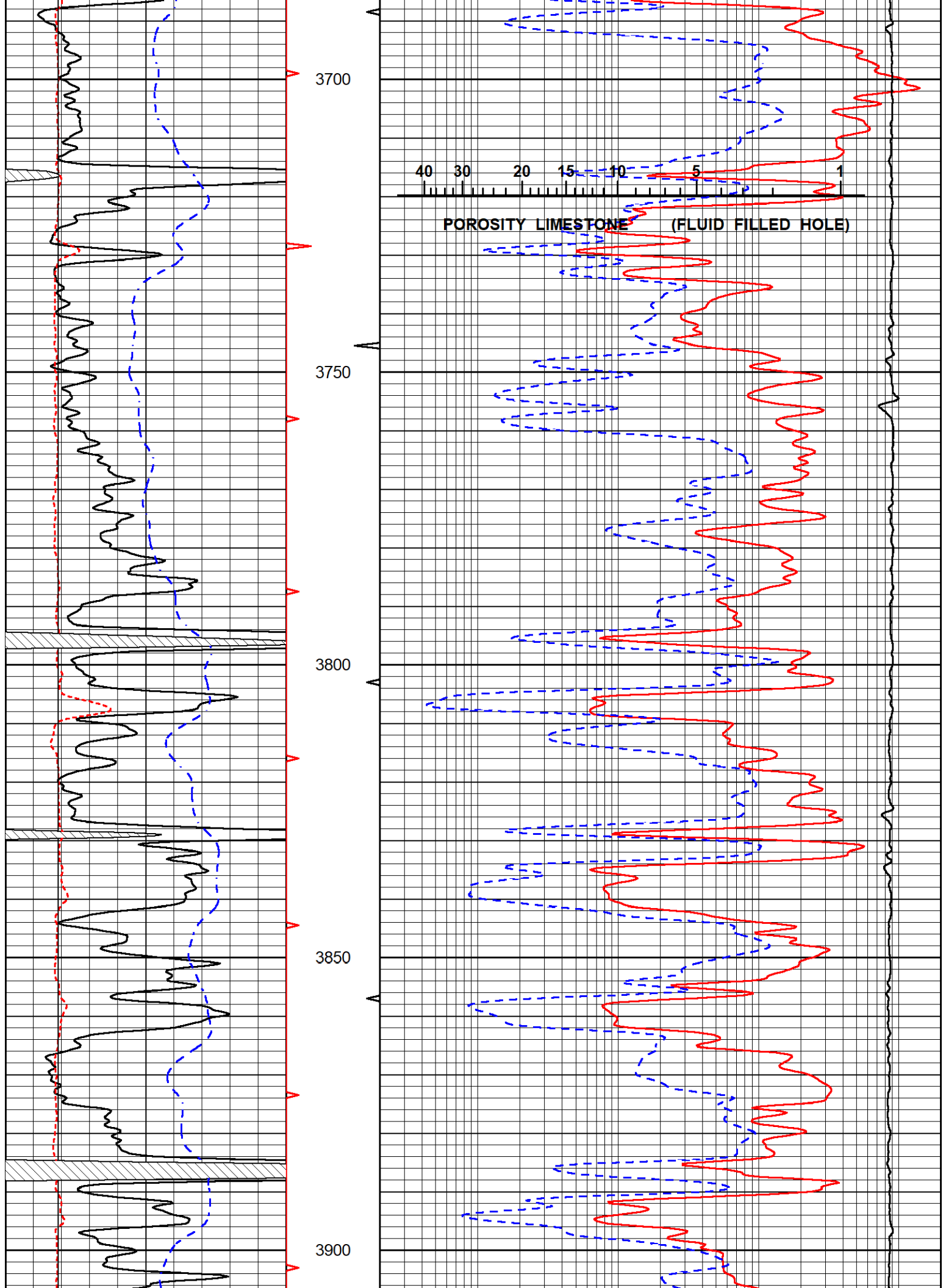
MAIN PASS

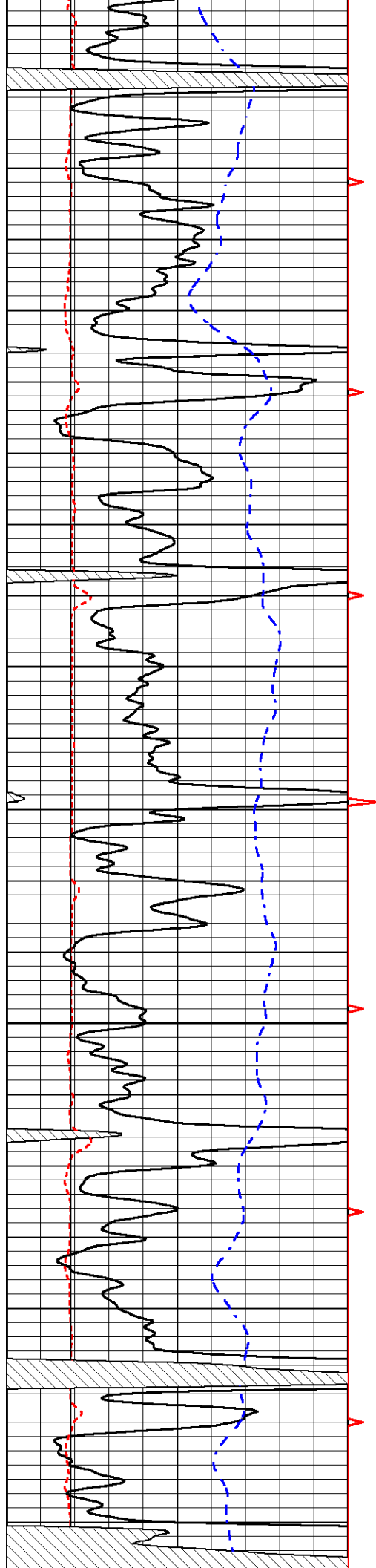
Database File berexco_robb 4.db
Dataset Pathname stkml/pass3.1
Presentation Format ragcnl
Dataset Creation Sun Jun 30 22:11:50 2024
Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0.2	Shallow Guard (Ohm-m)	2000
6	LCAL (in)	16	8500	Compensated Neutron Porosity (cps)	29000
6	Bit Size	16	15000	Line Tension (lb)	0
-200	SP (mV)	0			







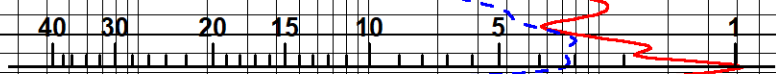


3950

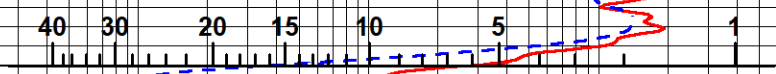
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4050

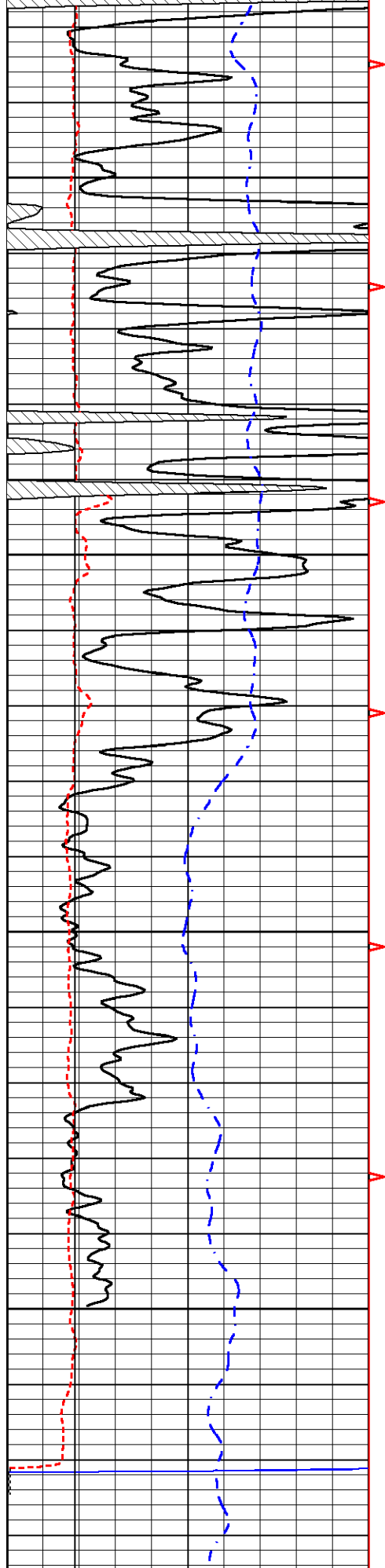
4100



POROSITY LIMESTONE (FLUID FILLED HOLE)



POROSITY LIMESTONE (FLUID FILLED HOLE)



4150

4200

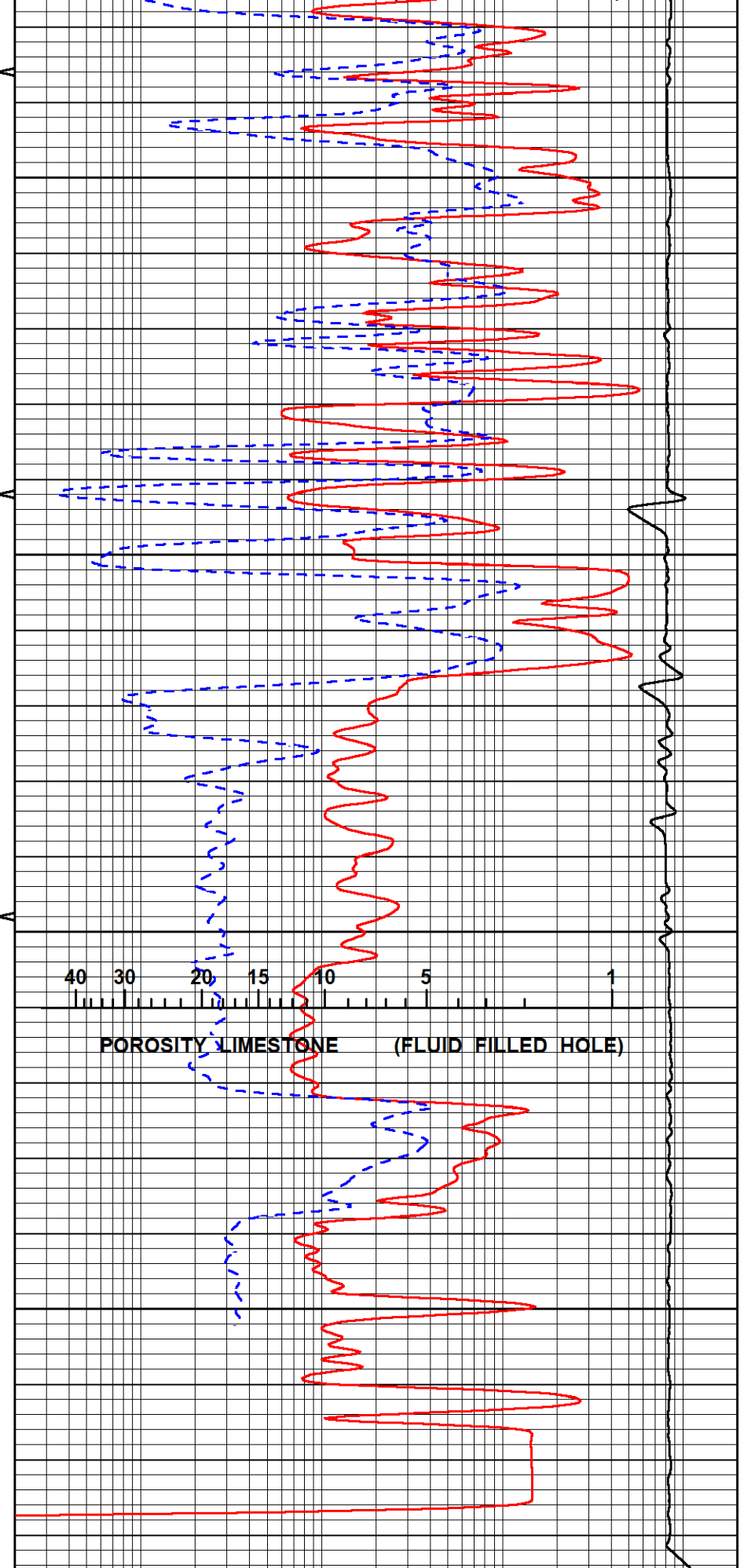
4250

4300

0 Gamma Ray (GAPI) 150

6 LCAL (in) 16

2 10



40 30 20 15 10 5 1

POROSITY LIMESTONE (FLUID FILLED HOLE)

0.2 Shallow Guard (Ohm-m) 2000

8500 Compensated Neutron Porosity (cps) 29000

15000 10

6	Bit Size	16
-200	SP (mV)	0

15000 Line Tension (lb) 0



MIDWEST WIRELINE

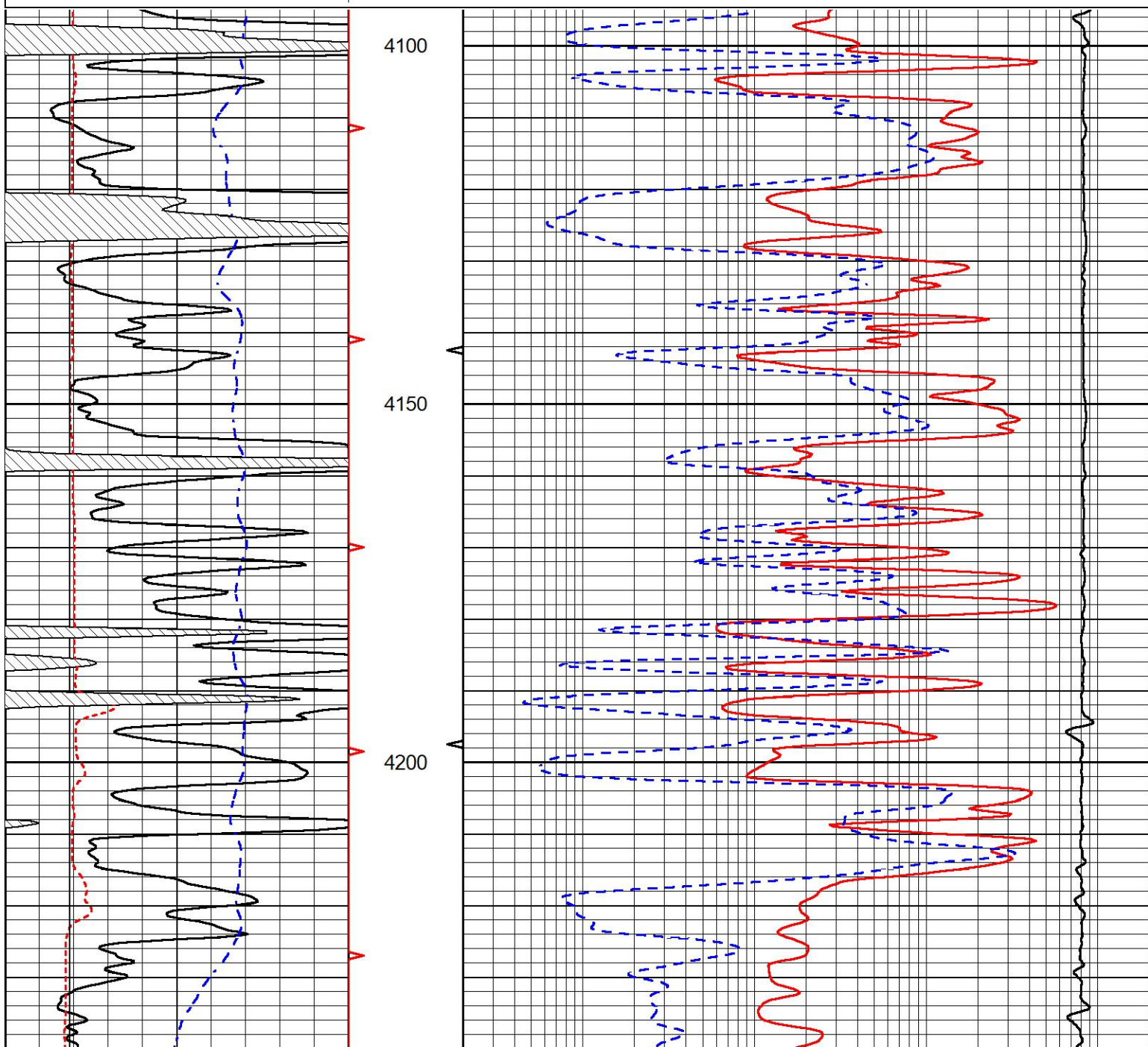
REPEAT SECTION

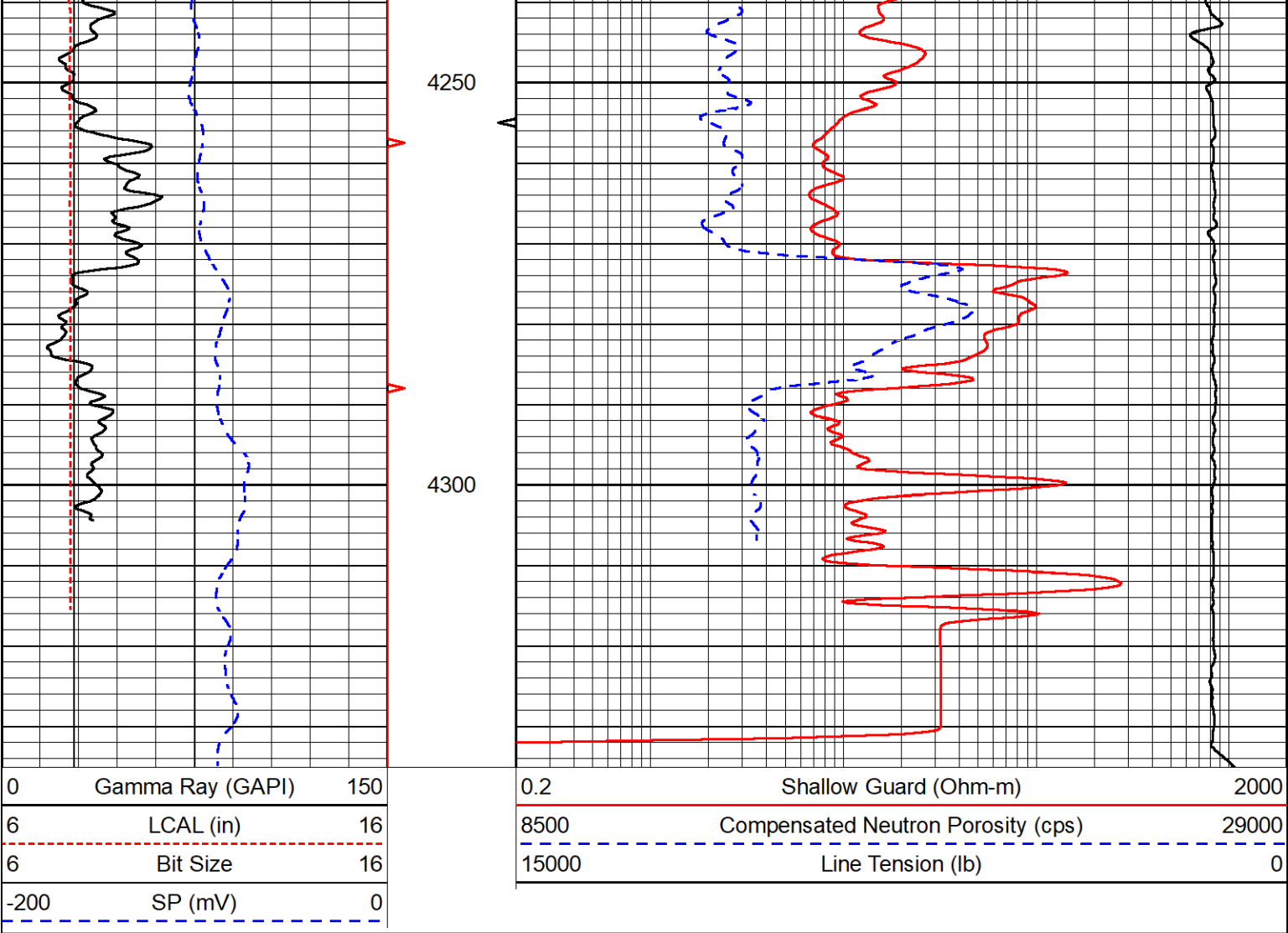
REPEAT PASS

Database File berexco_robb 4.db
Dataset Pathname stkml/pass2.11
Presentation Format ragcnl
Dataset Creation Sun Jun 30 21:19:11 2024
Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	LCAL (in)	16
6	Bit Size	16
-200	SP (mV)	0

0.2	Shallow Guard (Ohm-m)	2000
8500	Compensated Neutron Porosity (cps)	29000
15000	Line Tension (lb)	0





Calibration Report		
Database File	berexco_robb 4.db	
Dataset Pathname	stkml/pass3.1	
Dataset Creation	Sun Jun 30 22:11:50 2024	

Dual Induction Calibration Report

Serial-Model:	506-M&W
Surface Cal Performed:	Sun Jun 30 20:32:27 2024

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	84.211	428.152	0.000	255.800	mmho/m	0.465	-32.000
Medium	141.000	670.654	0.000	255.800	mmho/m	0.390	-10.000

Microlog Calibration Report

Serial-Model:	402-PSI STKBL ML
Performed:	Thu May 30 05:58:00 2024

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	11000.0000	0.0000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	14000.0000	0.0000

Caliper	1.0046	1.1419			5.5000	20.0000	in	50.0000	-44.6250
LITHODENSITY Calibration Report									
Serial Number:	703-03								
Tool Model:	STEP LITHO Short								
Performed:	Fri May 31 13:59:15 2024								
Source:									
	Win1	Win2	Win3	Win4	Win5	Win6	Win7	Win8	
Background:									
SS:	56	59	223	276	25	75	46	1	cps
LS:	83	90	344	441	51	132	90	3	cps
Aluminum:									
SS:	1063	1260	2893	2631	48	80	48	3	cps
LS:	1179	2084	3854	1823	62	133	86	5	cps
Magnesium:									
SS:	1756	2035	4740	3894	55	79	49	4	cps
LS:	4981	8390	15059	6054	115	127	85	14	cps
Aluminum+Iron:									
SS:	676	887	2426	2310	45	79	52	2	cps
LS:	700	1495	3280	1630	60	131	90	5	cps
		Density			PE				
		Actual	Calibrated		Actual	Calibrated	Quality		
Background:									
SS:							0.236		
LS:							0.189		
Aluminum:									
SS:		2.6000	2.6000	g/cc			0.249		
LS:		2.6000	2.6000	g/cc			0.216		
Magnesium:									
SS:		1.6800	1.6800	g/cc	2.5700	2.5700	0.232		
LS:		1.6800	1.6800	g/cc	2.5700	2.5700	0.198		
Aluminum+Iron:									
SS:						6.1800	0.208		
LS:						6.1800	0.188		
Caliper:		Reference:		Reading:					
Small Ring:		6.0	in	1.0					
Large Ring:		14.0	in	1.0					
Gain:		12.765							
Offset:		2.050							
Compensated Neutron Calibration Report									
		Serial Number:		210					
		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:			Sat Oct 21 23:48:19 2023						
Calibrator Value:			500.0		GAPI				

Calibrator Value:	500.0	GAPI
Background Reading:	24.0	cps
Calibrator Reading:	637.0	cps
Sensitivity:	0.6000	GAPI/cps



Company	Berexco, LLC
Well	Robb #4
Field	
County	Gove
State	Kansas