

**SPECTRAL DENSITY  
DUAL SPACED NEUTRON  
ARRAY COMPENSATED  
TRUE RESISTIVITY**

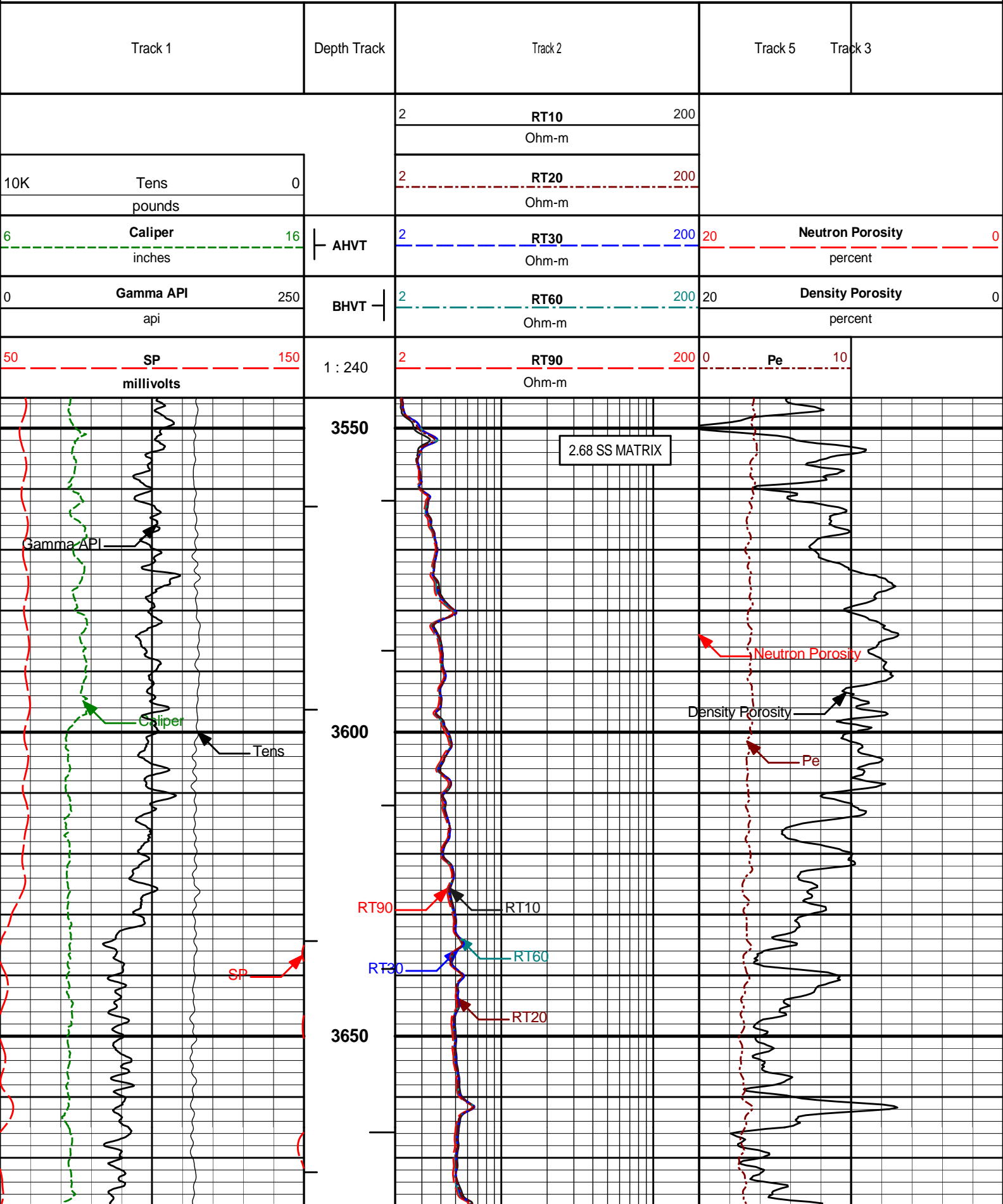
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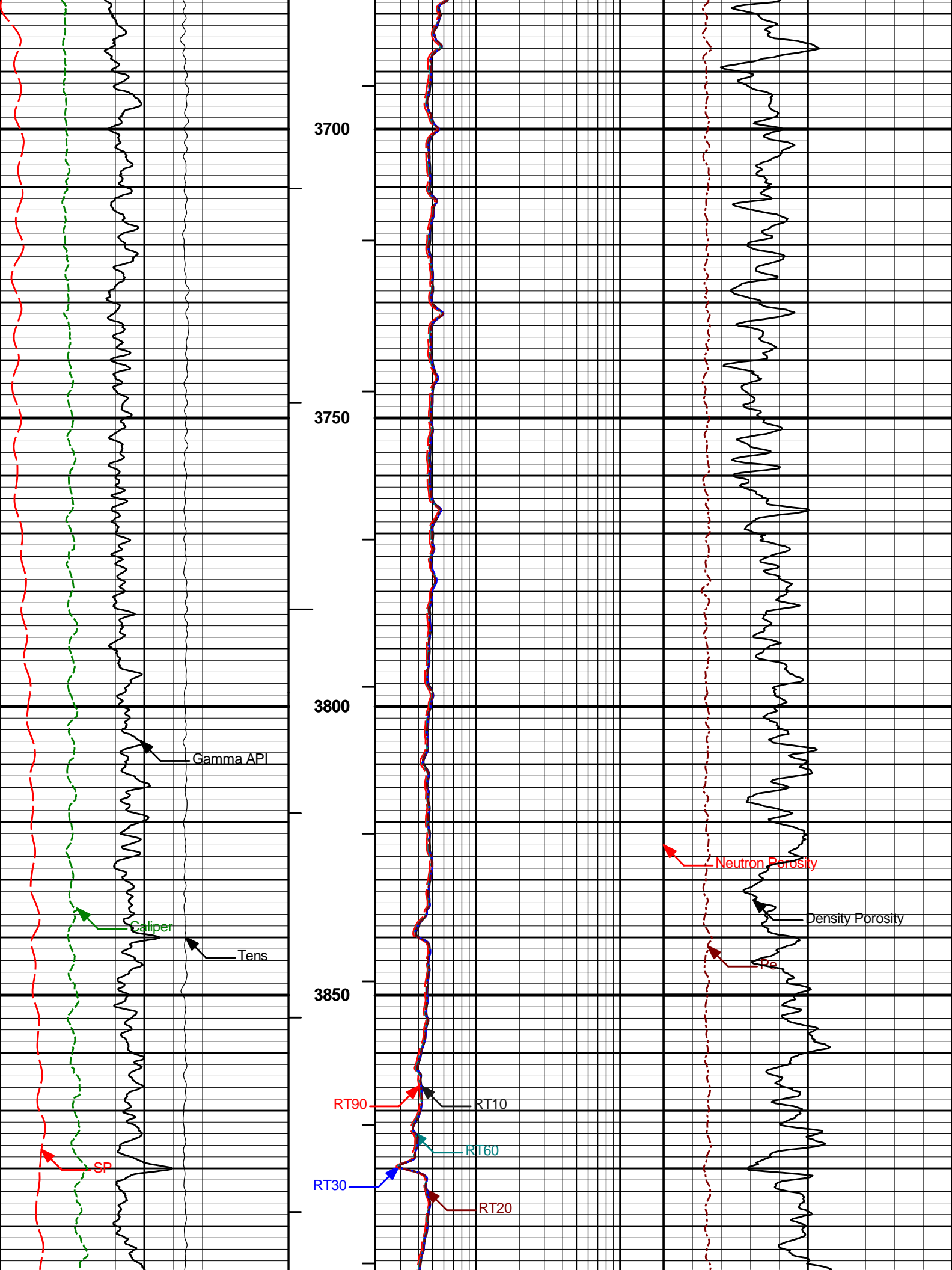
Service Ticket No.: 7600813						API Serial No.: 05123300810000						PGM Version: WL INSITE R3.0.4 (Build 6)					
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE						RESISTIVITY SCALE CHANGES											
Date	Sample No.					Type Log	Depth	Scale Up Hole	Scale Down Hole								
Depth-Driller																	
Type Fluid in Hole																	
Density	Viscosity																
Ph	Fluid Loss																
Source of Sample						RESISTIVITY EQUIPMENT DATA											
Rm @ Meas. Temp		@		@		Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other							
Rmf @ Meas. Temp.		@		@		ONE	ACRT 758-352	N/A	1.5" S.O.	N/A							
Rmc @ Meas. Temp.		@		@													
Source Rmf	Rmc																
Rm @ BHT		@		@													
Rmf @ BHT		@		@													
Rmc @ BHT		@		@													
EQUIPMENT DATA																	
GAMMA		ACOUSTIC				DENSITY		NEUTRON									
Run No.	ONE	Run No.	ONE	Run No.	ONE	Run No.	ONE	Run No.	ONE								
Serial No.	11277436	Serial No.	11105780	Serial No.	I440M319	Serial No.	I440M319	Serial No.	11277440								
Model No.	GTET	Model No.	BSAT	Model No.	SDLT	Model No.	SDLT	Model No.	DSNT								
Diameter	3.625"	No. of Cent.	2	Diameter	4.5"	Diameter	4.5"	Diameter	3.625"								
Detector Model No.	102A	Spacing	0.5'	Log Type	GAM/GAM	Log Type	GAM/GAM	Log Type	NEU/NEU								
Type	SCINT			Source Type	Cs137	Source Type	Cs137	Source Type	Am241Be								
Length	8"	LSA [Y/N]	N	Serial No.	2770 GW	Serial No.	2770 GW	Serial No.	DSN 434								
Distance to Source	17'	FWDA [Y/N ]	N	Strength	1.5 Ci	Strength	1.5 Ci	Strength	15 Ci								
LOGGING DATA																	
GENERAL		GAMMA		ACOUSTIC		DENSITY		NEUTRON									

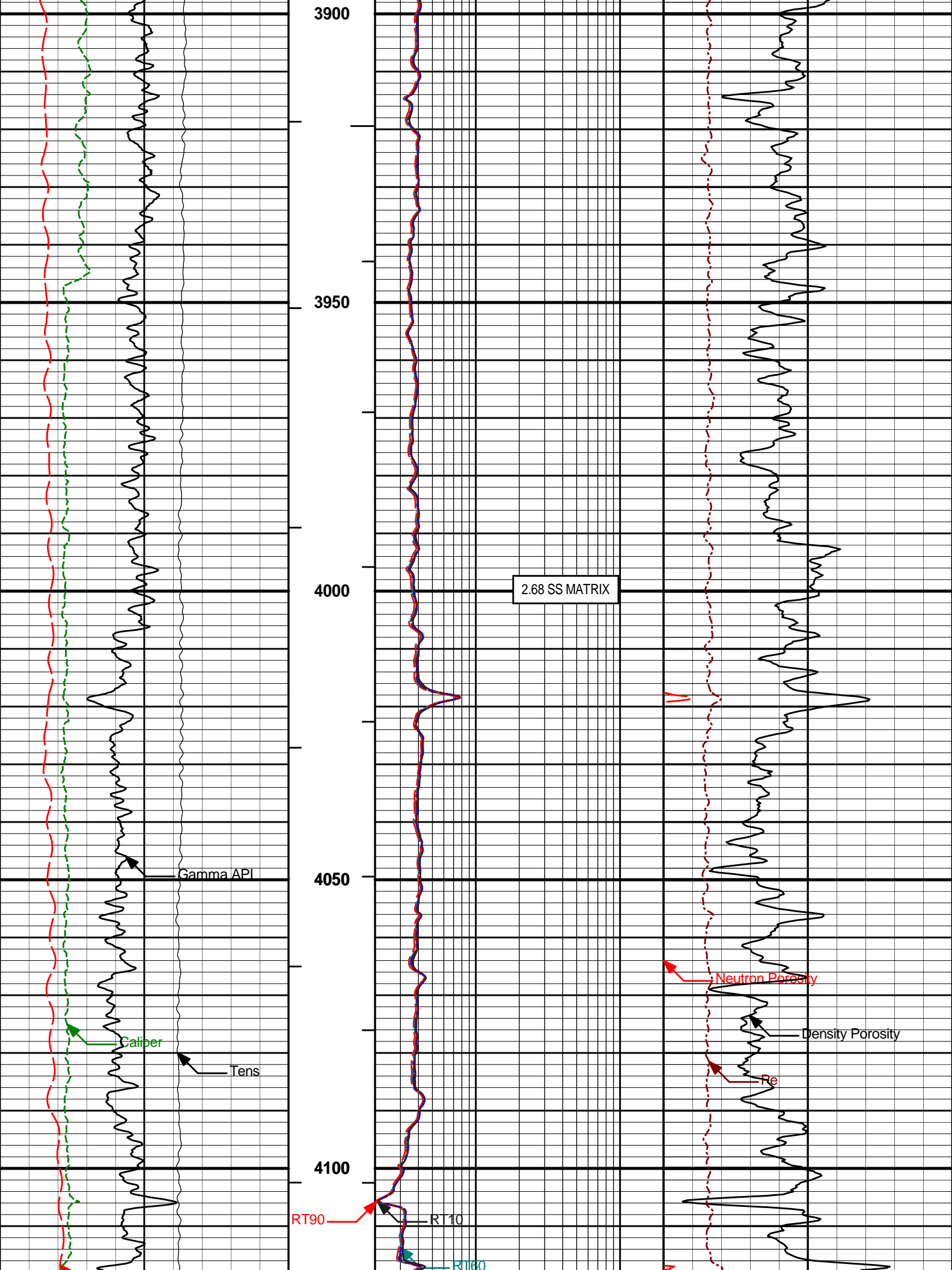
GENERAL			GAMMA		ACOUSTIC		DENSITY		NEUTRON					
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
No.	From	To	ft/min	L	R	L	R		L	R		L	R	
ONE	6994	6825	REC	0	250	30%	-10%	55.5 us/ft	20%	0%	2.68 g/cc	20%	0%	SAND
ONE	6825	6559	REC	0	250	30%	-10%	47.5 us/ft	20%	0%	2.71 g/cc	20%	0%	LIME
ONE	6559	722	REC	0	250	30%	-10%	55.5 us/ft	20%	0%	2.68 g/cc	20%	0%	SAND
DIRECTIONAL INFORMATION														
Maximum Deviation @									KOP @					
Remarks:														
RWCH/GTET/CSNG/DSNT/SDLT/BSAT/ACRT RAN IN COMBINATION														
ANNULAR HOLE VOLUME CALCULATED FOR 4.5 INCH PRODUCTION CASING														
TENSION PULLS AND BOREHOLE RUGOSITY AFFECTS TOOL RESPONSE														
CREW: A. LEWIS, J. WALKER, M. BURNETT														
RIG: ENSIGN 55														
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES -- BRIGHTON, CO -- (303) 825-4346														

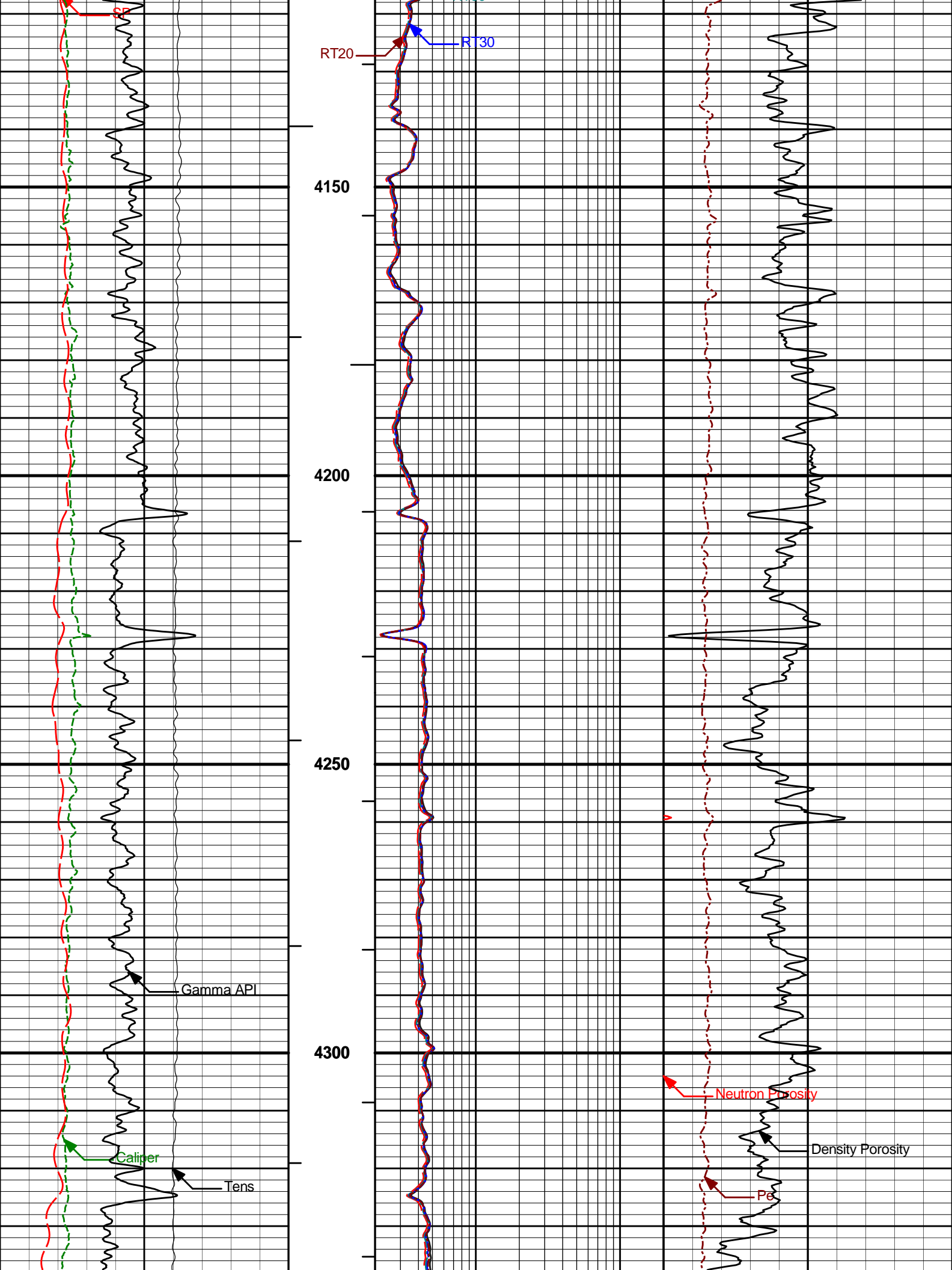
GTET	Process Gamma Ray?	Yes	
GTET	Gamma Tool Standoff	0.000	in
GTET	Process Gamma Ray EVR?	No	
GTET	Potassium	0.00	%
GTET	Mud Type	Natural	
GTET	Tool Position	Standoff	
CSNG	Process CSNG Data?	Yes	
CSNG	Is Tool Centralized?	No	
CSNG	Mud Type?	Natural	
CSNG	Percent K in Mud by Weight?	0.00	%
CSNG	Gamma Enviromental Corrections?	Yes	
CSNG	Barite Correction Factor	1.00	
DSNT	Process DSN?	Yes	
DSNT	Process DSN EVR?	No	
DSNT	Neutron Lithology	Sandstone	
DSNT	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.000	in
DSNT	Temperature Correction Type	None	
DSNT	DSN Pressure Correction Type	None	
DSNT	View More Correction Options	No	
DSNT	Use TVD for Gradient Corrections?	No	
DSNT	Logging Horizontal Water Tank?	No	
SDLT	Process Density?	Yes	
SDLT	Process Density EVR?	No	
SDLT	Is Hole Air Drilled?	No	
SDLT	Logging Calibration Blocks?	No	
SDLT	SDLT Pad Temperature Valid?	Yes	
SDLT	Disable temperature warning	No	
SDLT	Weighted Mud Correction Type?	None	
SDLT	Formation Density Matrix	2.680	g/cc
SDLT	Formation Density Fluid	1.000	g/cc
SDLT	Process Caliper Outputs?	Yes	
SDLT	Process MicroLog Outputs?	Yes	
BSAT	Compute BCAS Results?	Yes	
BSAT	Semblance Filter Low Pass Value?	5000	Hz
BSAT	Semblance Filter High Pass Value?	27000	Hz
BSAT	Delta -T Fluid	189.00	uspf
BSAT	Delta -T Matrix Type	Sandstone 55.5	
BSAT	Delta -T Shale	100.00	uspf
BSAT	Acoustic Porosity Equation	Wylie	
ACRt	Process ACRt?	Yes	
ACRt	Minimum Tool Standoff	1.50	in
ACRt	Temperature Correction Source	FP Lwr & FP Up	
ACRt	Tool Position	Free Hanging	
ACRt	Rmud Source	Mud Cell	
ACRt	Minimum Resistivity for MAP	0.20	ohmm
ACRt	Maximum Resistivity for MAP	200.00	ohmm
ACRt	Threshold Quality	0.50	

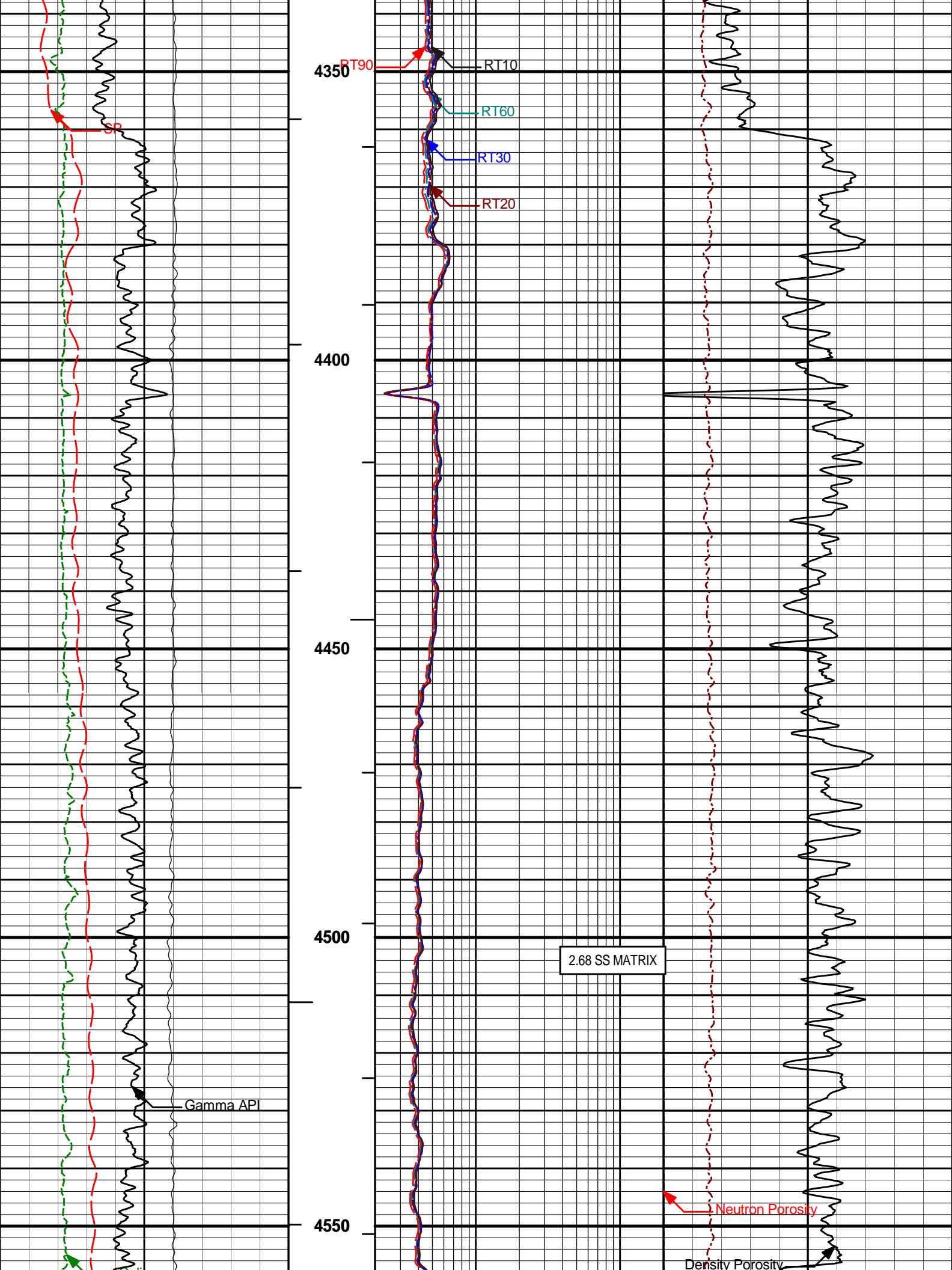
BOTTOM



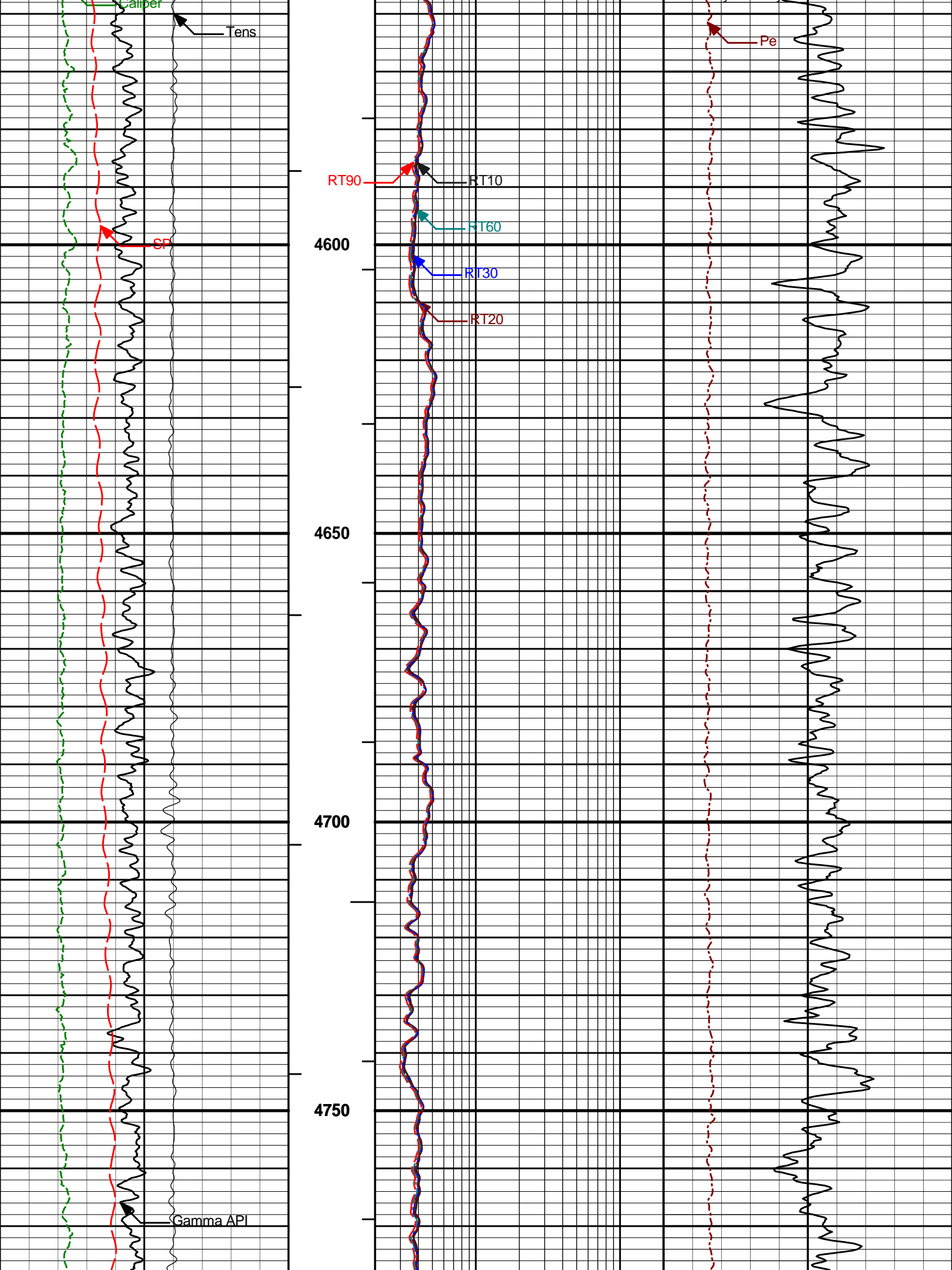


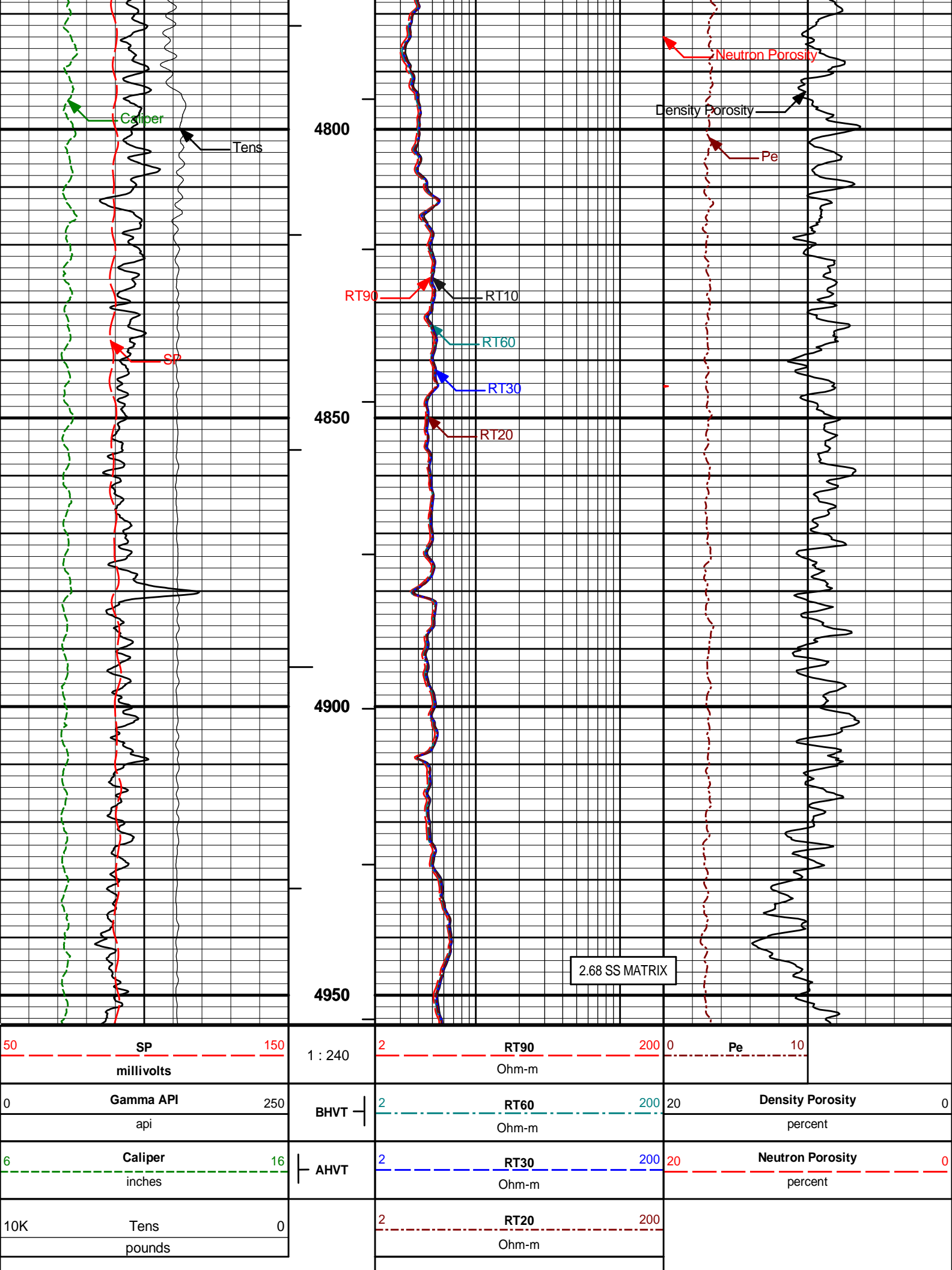


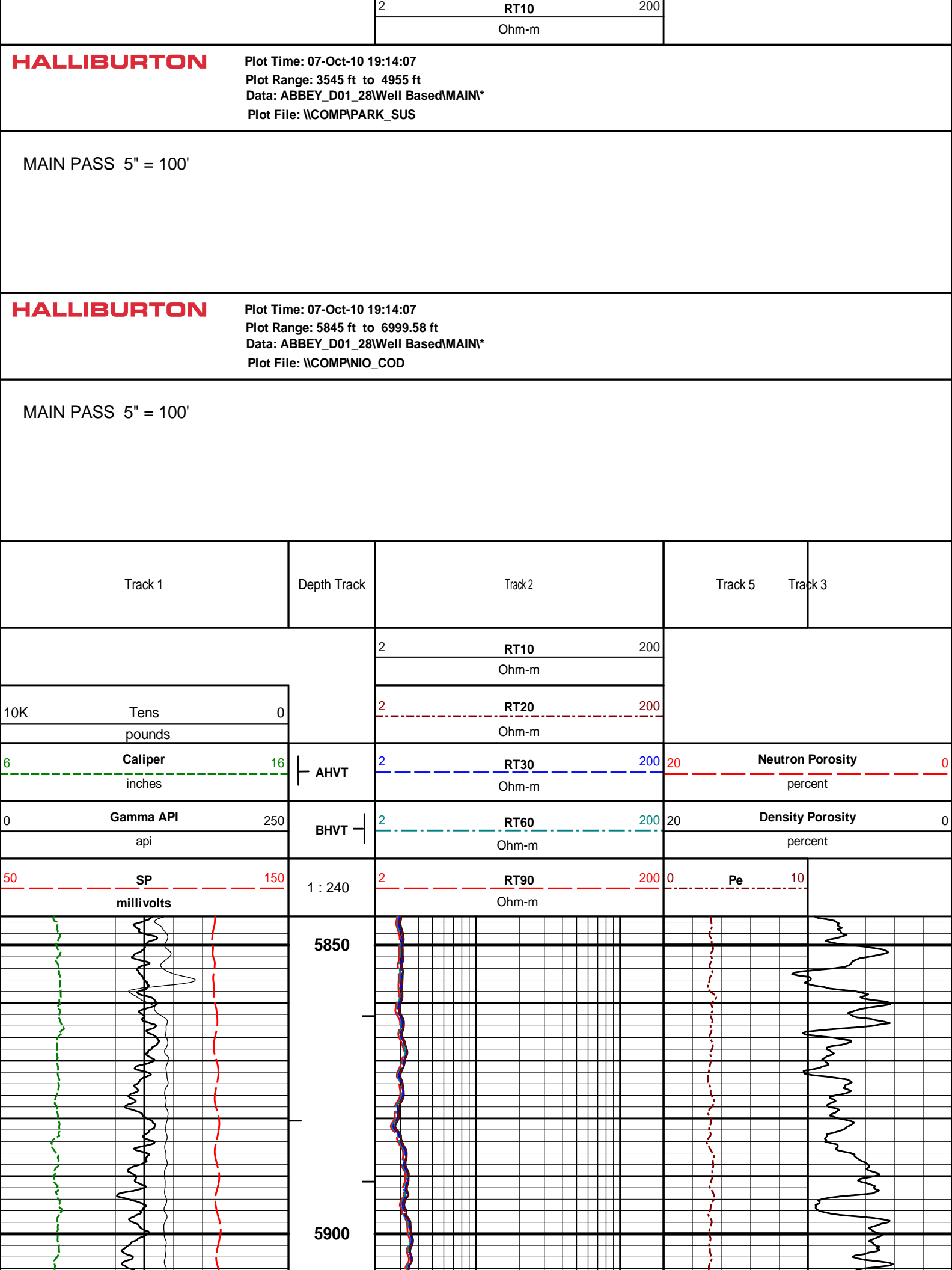


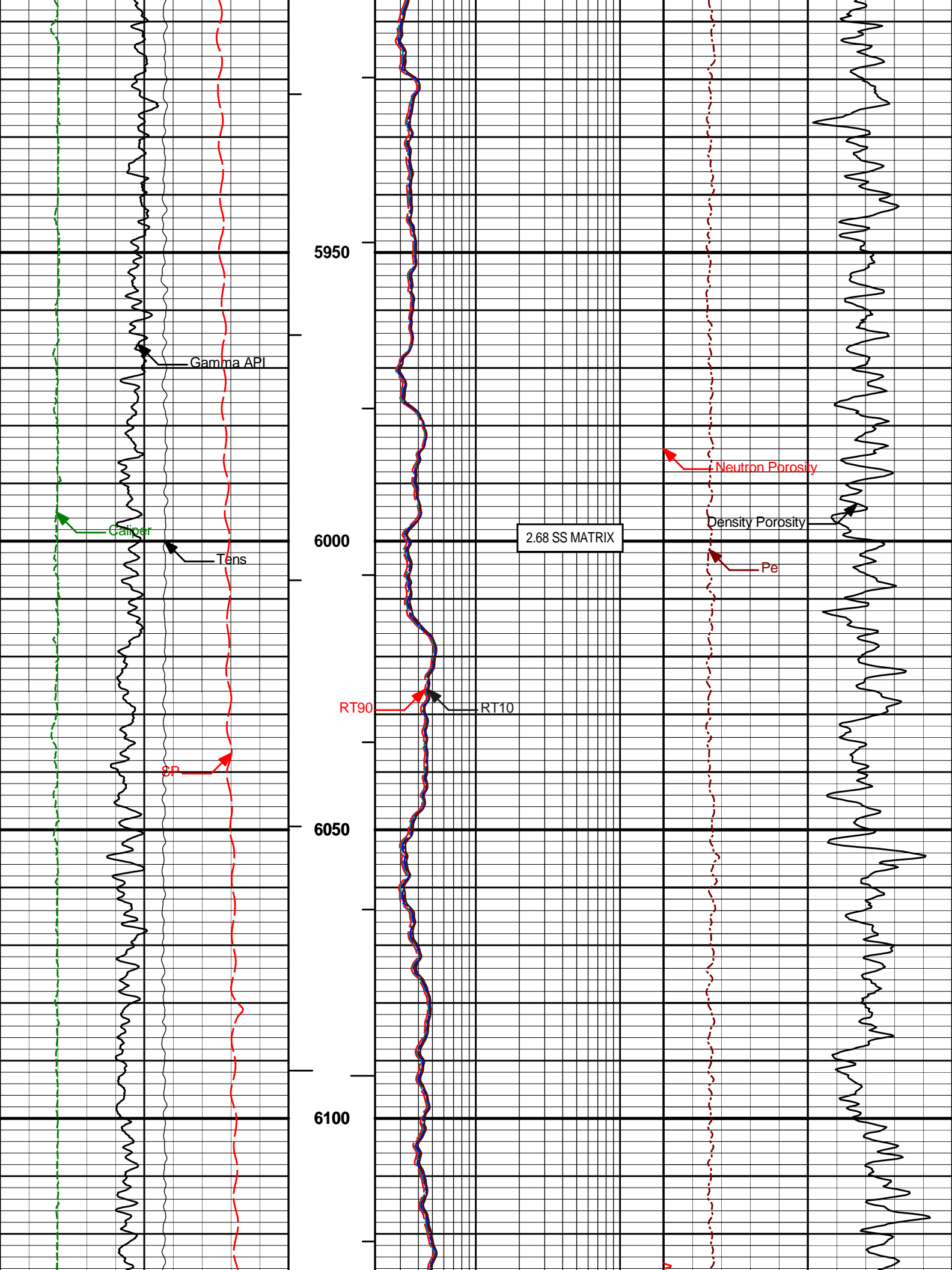


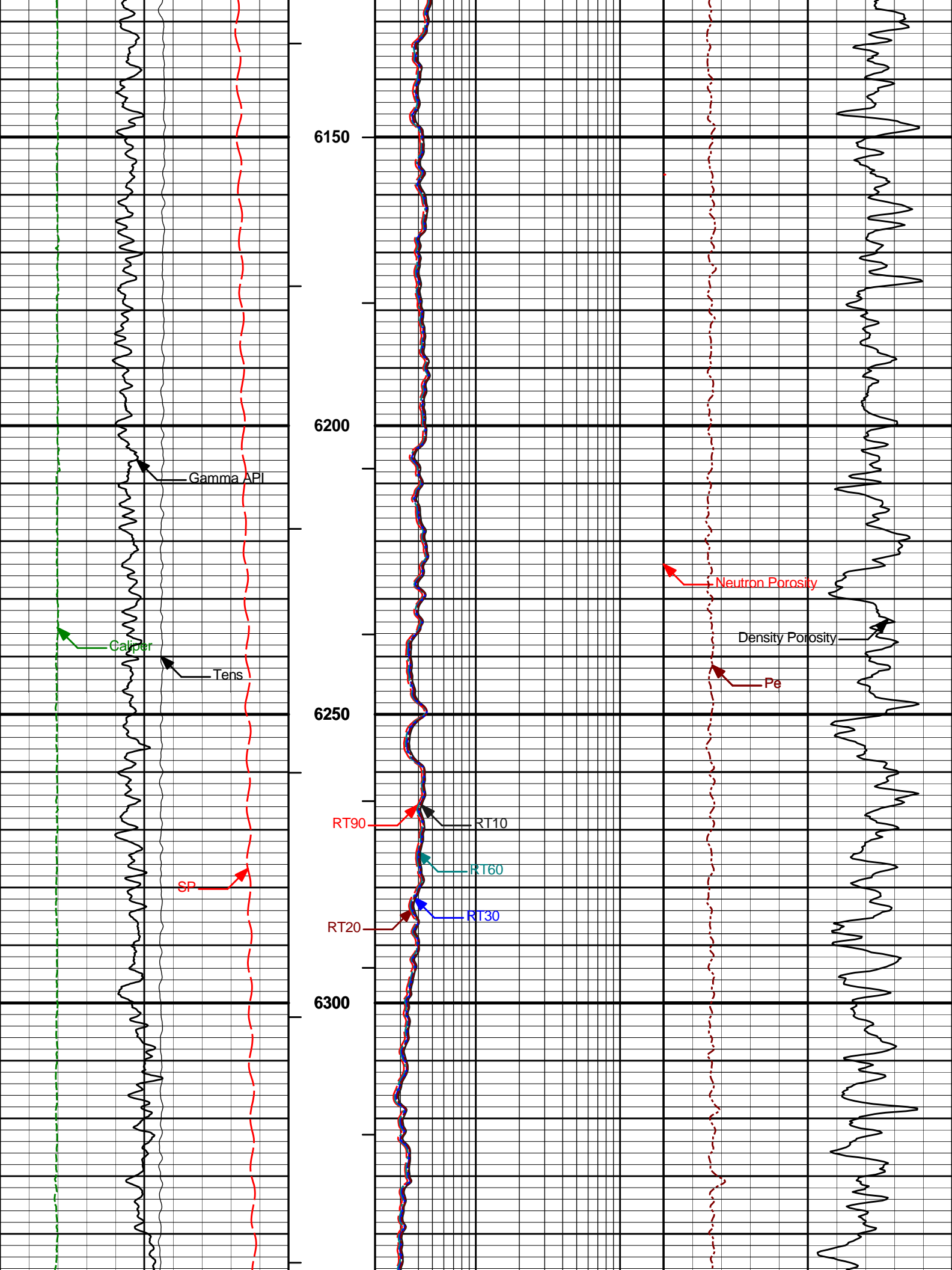


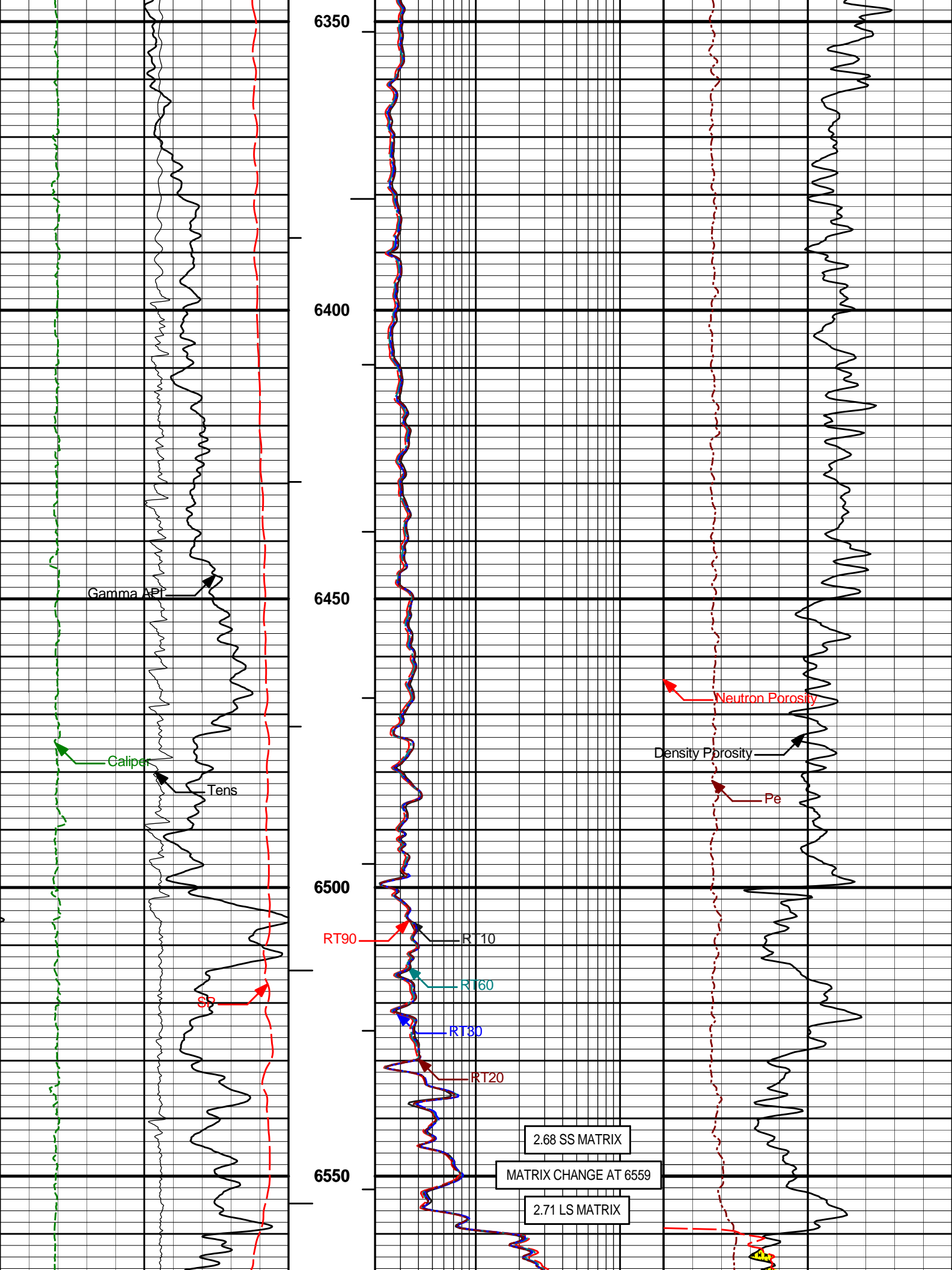




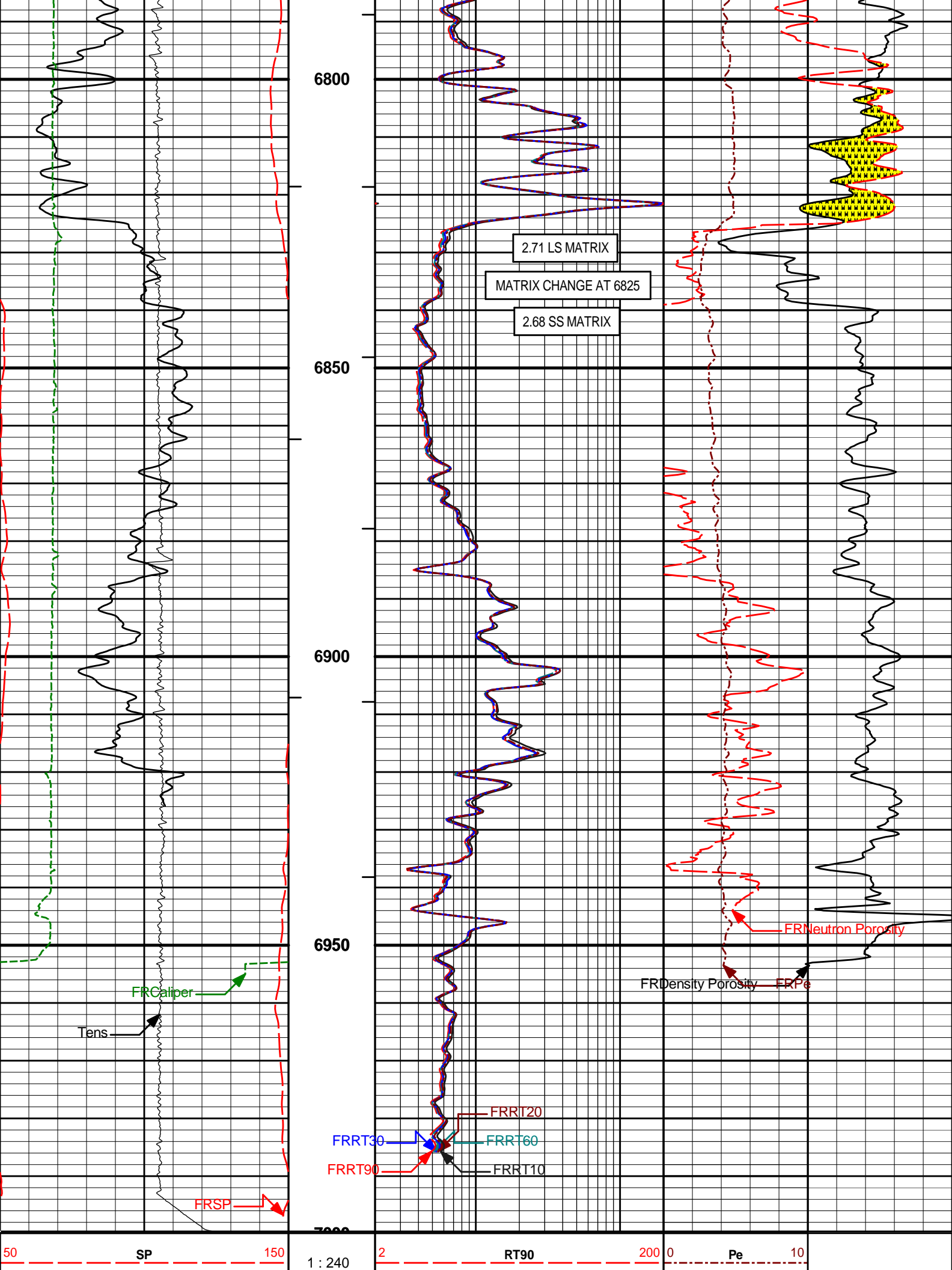














millivolts				Ohm-m					
0	Gamma API	250	BHVT	2	RT60	200	20	Density Porosity	0
api				Ohm-m			percent		
6	Caliper	16	AHVT	2	RT30	200	20	Neutron Porosity	0
inches				Ohm-m			percent		
10K	Tens	0		2	RT20	200			
				Ohm-m					
				2	RT10	200			
				Ohm-m					

HALLIBURTON

Plot Time: 07-Oct-10 19:14:19  
Plot Range: 5845 ft to 6999.58 ft  
Data: ABBEY\_D01\_28\Well Based\MAIN\  
Plot File: \\COMP\NIO\_COD

MAIN PASS 5" = 100'

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name: GTET - 11277436

Reference Calibration Date: 16-Aug-10 14:41:01

Engineer: C. BLUE

Calibration Date: 28-Sep-10 17:37:59

Software Version: WL INSITE R3.0.4 (Build 6)

Calibration Version: 1

Calibrator Source S/N: KW-290  
Calibrator API Reference:230.00 api

Measurement	Measured	Calibrated	Units
Background	84.3	84.5	api
Background + Calibrator	317.8	318.5	api
Calibrator	234.2	234.0	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name: GTET - 11277436

Reference Calibration Date: 28-Sep-10 17:37:59

Engineer: C. BLUE

Calibration Date: 07-Oct-10 08:15:57

Software Version: WL INSITE R3.0.4 (Build 6)

Calibration Version: 1

Calibrator Source S/N: KW-290  
Calibrator API Reference:230.00 api

Field Verification	Shop	Field	Units
Background	84.5	84.3	api
Background + Calibrator	318.5	321.3	api
Calibrator	234.0	237.0	api

Shop	Field	Difference	Tolerance
234.0	237.0	-3.0	+/- 9.00

CSNG-FS SHOP CALIBRATION

Tool Name: CSNG - 10965402

Reference Calibration Date: 16-Aug-10 14:22:25

TITANIUM CASE	Measured	Calibrated	Units
60 KEV Peak Channel #	48.0	48.0	Channel #
239 KEV Peak Channel #	22.7	22.8	Channel #
583 KEV Peak Channel #	51.2	51.3	Channel #
2614 KEV Peak Channel #	210.5	210.5	Channel #
Calibrate Temperature	101.6	125.5	degF

Pass/Fail Summary	Centroid
239 KEV Peak	Passed
583 KEV Peak	Passed
2614 KEV Peak	Passed

Blanket Reference Value: 230.00 API  
Calibrator Value: 261.2 API

	Counts	Units	Measured	Calibrated	Units
Thorium Blanket	1693.1	CPS	323.3	336.9	API
Background	380.4	CPS	62.1	75.7	API

Gamma Ray Gain: 1.00  
Gamma Gain Check: Passed

TITANIUM CASE	Shop	Field	Units
60 KEV Peak Channel #	48.0	48.0	Channel #
239 KEV Peak Channel #	22.8	22.8	Channel #
583 KEV Peak Channel #	51.3	51.4	Channel #
2614 KEV Peak Channel #	210.5	210.7	Channel #
Calibrate Temperature	125.5	90.5	degF

Pass/Fail Summary	Centroid
239 KEV Peak	Passed
583 KEV Peak	Passed
2614 KEV Peak	Passed

Blanket Reference Value: 230.00 API  
Calibrator Value: 261.2 API

	Counts	Units	Measured	Calibrated	Units
Thorium Blanket	1690.2	CPS	336.9	331.1	API
Background	356.6	CPS	75.7	69.9	API

### DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name:	DSNT - 11277440	Reference Calibration Date:	28-Sep-10 17:21:07
Engineer:	C. BLUE	Calibration Date:	28-Sep-10 17:33:11
Software Version:	WL INSITE R3.0.4 (Build 6)	Calibration Version:	1

Logging Source S/N: DSN-434  
Tank Serial Number: 11068236  
Reference value assigned to Tank: 53.720  
Snow Block S/N: BRIGHTON  
Calibration Tank Water Temperature: 78 degF  
Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	1.019	1.019	0.900 - 1.100

WATER TANK SUMMARY (Horizontal Water Tank)				
Measurement	Current Reading (Previous Coef.)	Calibrated (New Coef.)	Change	Control Limit On Change
Porosity (decp):	0.2224	0.2224	0.0000	+/- 0.0020
Calibrated Ratio:	10.11	10.11	0.001	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0782	0.02000 - 0.09000

PASS/FAIL SUMMARY	
Background Check:	Passed
Gain-Range Check:	Passed
Snow-Block Check:	Passed

### DUAL SPACED NEUTRON FIELD CALIBRATION

Tool Name:	DSNT - 11277440	Reference Calibration Date:	28-Sep-10 17:33:11
Engineer:	C. BLUE	Calibration Date:	07-Oct-10 08:44:40
Software Version:	WL INSITE R3.0.4 (Build 6)	Calibration Version:	1

Logging Source S/N: DSN-434  
Snow Block S/N: BRIGHTON

NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0782	0.0787	0.0004	+/- 0.0150

PASS/FAIL SUMMARY	
Block Change Check:	Passed
Snow Block Stat Check:	Passed
Temperature Check:	Passed

### SPECTRAL DENSITY SHOP CALIBRATION

Tool Name:	SDLT - I440M319	Reference Calibration Date:	13-Sep-10 14:27:58
Engineer:	F. LODER	Calibration Date:	13-Sep-10 14:53:06

Logging Source S/N: 2770GW

Aluminum Block S/N: BRIGHTON\_AL

Density: 2.600g/cc

Pe: 3.100

Magnesium Block S/N: BRIGHTON\_MG

Density: 1.680g/cc

Pe: 2.594

DENSITY CALIBRATION SUMMARY			
Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0445	1.0228	0.90 - 1.10
Near Dens Gain	1.0165	1.0054	0.90 - 1.10
Near Peak Gain	1.0120	0.9890	0.90 - 1.10
Near Lith Gain	0.9934	0.9667	0.90 - 1.10
Far Bar Gain	1.0220	1.0164	0.90 - 1.10
Far Dens Gain	1.0073	1.0037	0.90 - 1.10
Far Peak Gain	0.9986	0.9932	0.90 - 1.10
Far Lith Gain	0.9720	0.9666	0.90 - 1.10
Near Bar Offset	-0.1464	0.0526	NONE
Near Dens Offset	0.0770	0.1765	NONE
Near Peak Offset	0.1314	0.3257	NONE
Near Lith Offset	0.2625	0.4867	NONE
Far Bar Offset	0.0051	0.0570	NONE
Far Dens Offset	0.1081	0.1415	NONE
Far Peak Offset	0.1623	0.2093	NONE
Far Lith Offset	0.3327	0.3804	NONE
Near Bar Background	871.47	867.90	700 - 1450
Near Dens Background	283.87	285.14	230 - 480
Near Peak Background	120.97	120.49	100 - 210
Near Lith Background	154.57	152.52	125 - 260
Far Bar Background	547.17	548.03	450 - 900
Far Dens Background	210.63	211.00	175 - 345
Far Peak Background	82.11	83.06	70 - 140
Far Lith Background	86.94	86.82	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.680	1.680	0.000	+/- 0.015
Pe	2.599	2.596	-0.003	+/- 0.150
ALUMINUM				
Density (g/cc)	2.599	2.600	0.001	+/- 0.01500
Pe	3.121	3.102	-0.019	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0016	+/- 0.0110	0.0009	+/- 0.0140
Magnesium Block	-0.0004	+/- 0.0110	-0.0020	+/- 0.0140
Aluminum Block	0.0003	+/- 0.0110	-0.0011	+/- 0.0140
Resolution	9.23	6.00 - 11.50	9.63	6.00 - 11.50
Internal Verifier(B+D+P+L)	1426	1200 - 2700	929	800 - 1700

**PASS/FAIL SUMMARY**

Background Quality Check:	Passed
Background Range Check:	Passed
Background Resolution Check:	Passed
Background Verification Check:	Passed
Magnesium Quality Check:	Passed
Aluminum Quality Check:	Passed
Gains Check:	Passed
Changes in Calibration Blocks:	Passed

**SPECTRAL DENSITY FIELD CHECK**

Tool Name:	SDLT - I440M319	Reference Calibration Date:	13-Sep-10 14:53:06
Engineer:	C. BLUE	Calibration Date:	07-Oct-10 08:19:53
Software Version:	WL INSITE R3.0.4 (Build 6)	Calibration Version:	1

Pad Temperature: 57.6 degF

**DENSITY FIELD CALIBRATION SUMMARY**

Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1426.058	1427.682	1.624	15.241
Far (B+D+P+L) cps	928.906	931.158	2.252	16.494
Near Resolution	9.23	9.42	0.190	0.50
Far Resolution	9.63	10.17	0.540	1.00

**PASS/FAIL SUMMARY**

Bkg Quality Check:	Passed
Bkg Resolution Check:	Passed
Bkg Verification Check:	Passed

**DENSITY CALIPER SHOP CALIBRATION**

Tool Name:	SDLT - I440M319	Reference Calibration Date:	13-Sep-10 15:22:54
Engineer:	F. LODER	Calibration Date:	13-Sep-10 15:26:52
Software Version:	WL INSITE R3.0.4 (Build 6)	Calibration Version:	1

**CALIBRATION COEFFICIENTS**

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-5565.54	-5514.66	-7000.00 - -1000.00
Pad Gain	0.0003978	0.0003992	0.000200 - 0.000600
Arm Offset	-3505.64	-3567.58	-5000.00 - 3000.00
Arm Gain	0.0005625	0.0005754	0.000300 - 0.000700
Arm Power	-0.000004027	-0.000004959	-0.000010 - 0.000010

The ring diameter is computed from: DIAMETER = PAD EXTENSION + ARM EXTENSION + TOOL DIAMETER

Tool Diameter: 4.50 in

**CALIBRATION RINGS**

Measurement	Current Reading (Previous Coeff.)	Calibrated (New Coeff.)	Change	Control Limit On New Value
PAD EXTENSION:				
Small Ring (in)	1.97	2.00	0.03	+/- 0.20
Medium Ring (in)	3.72	3.75	0.03	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.47	6.50	0.03	+/- 0.20
Medium Ring (in)	8.20	8.25	0.05	+/- 0.20
Large Ring (in)	14.99	15.00	0.01	+/- 0.20

### PASS/FAIL SUMMARY

Calibration-Coefficients Range Check:	Passed
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Ring-Measurement Check: Passed

### PASS/FAIL SUMMARY

Calibration-Coefficients Range Check:	Passed
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## SDLT CALIPER FIELD CALIBRATION

Reference Calibration Date: 13-Sep-10 15:26:52

**Calibration Date: 07-Oct-10 08:39:12**

**Calibration Version: 1**

Measurement	MEASURED CALIPER VALUES			Control Limit On New Value
	Shop	Field	Change	
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Pad Extension	3.75	3.82	0.07	+/- 0.10
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Ring Diameter	8.25	8.13	-0.12	+/- 0.15
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### PASS/FAIL SUMMARY

Pad Extension Check:	Passed
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Diameter Check:	Passed
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## ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Reference Calibration Date: 04-Jun-10 17:35:57

**Calibration Date:** 13-Aug-10 20:36:17

**Calibration Version: 1**

TYPICAL GAIN RANGE					

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0222	1.05	0.95	1.0229	1.05	0.95	1.0194	1.05
A2 (50")	0.95	0.9997	1.05	0.95	1.0021	1.05	0.95	0.9995	1.05
A3 (29")	0.95	0.9946	1.05	0.95	0.9956	1.05	0.95	0.9917	1.05
A4 (17")	0.95	0.9997	1.05	0.95	0.9975	1.05	0.95	0.9947	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.0022	1.05	0.95	0.9988	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9802	1.05	0.95	0.9754	1.05

**TYPICAL SONDE OFFSET RANGE**

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	-5	-0.767	2	-6	-4.245	-2	-8	-5.212	-2
A2 (50")	-7	-3.191	-1	-6	-4.049	-2	-7	-4.429	-2
A3 (29")	-27	-14.006	-9	-9	-4.120	-3	-7	-3.109	-1
A4 (17")	-180	-96.845	-60	-45	-31.787	-15	-39	-25.716	-13
A5 (10")	N/A	N/A	N/A	-150	-89.499	-50	-80	-43.805	-10
A6 (6")	N/A	N/A	N/A	175	295.504	525	90	152.604	270

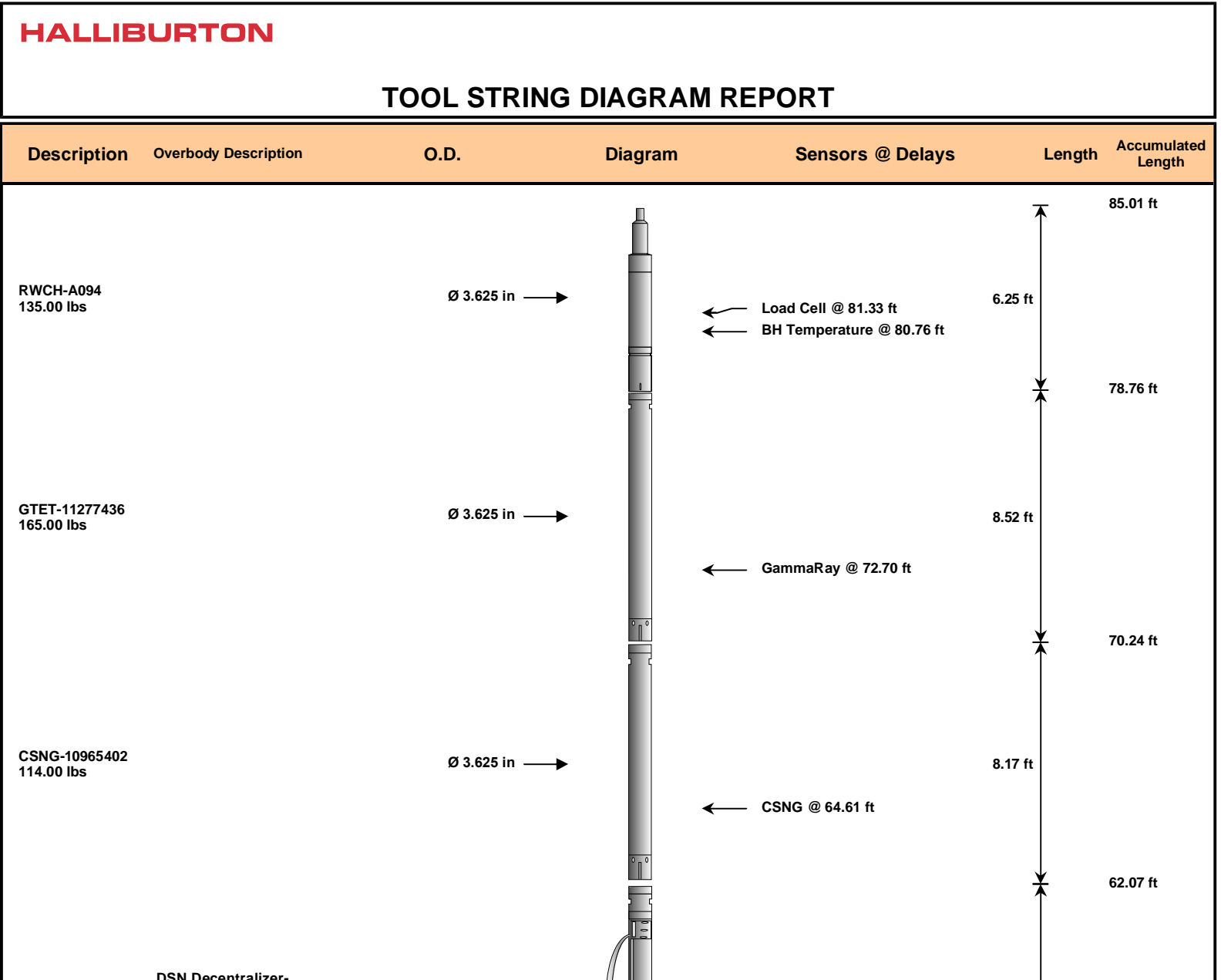
## TRANSMITTER CURRENT GAIN

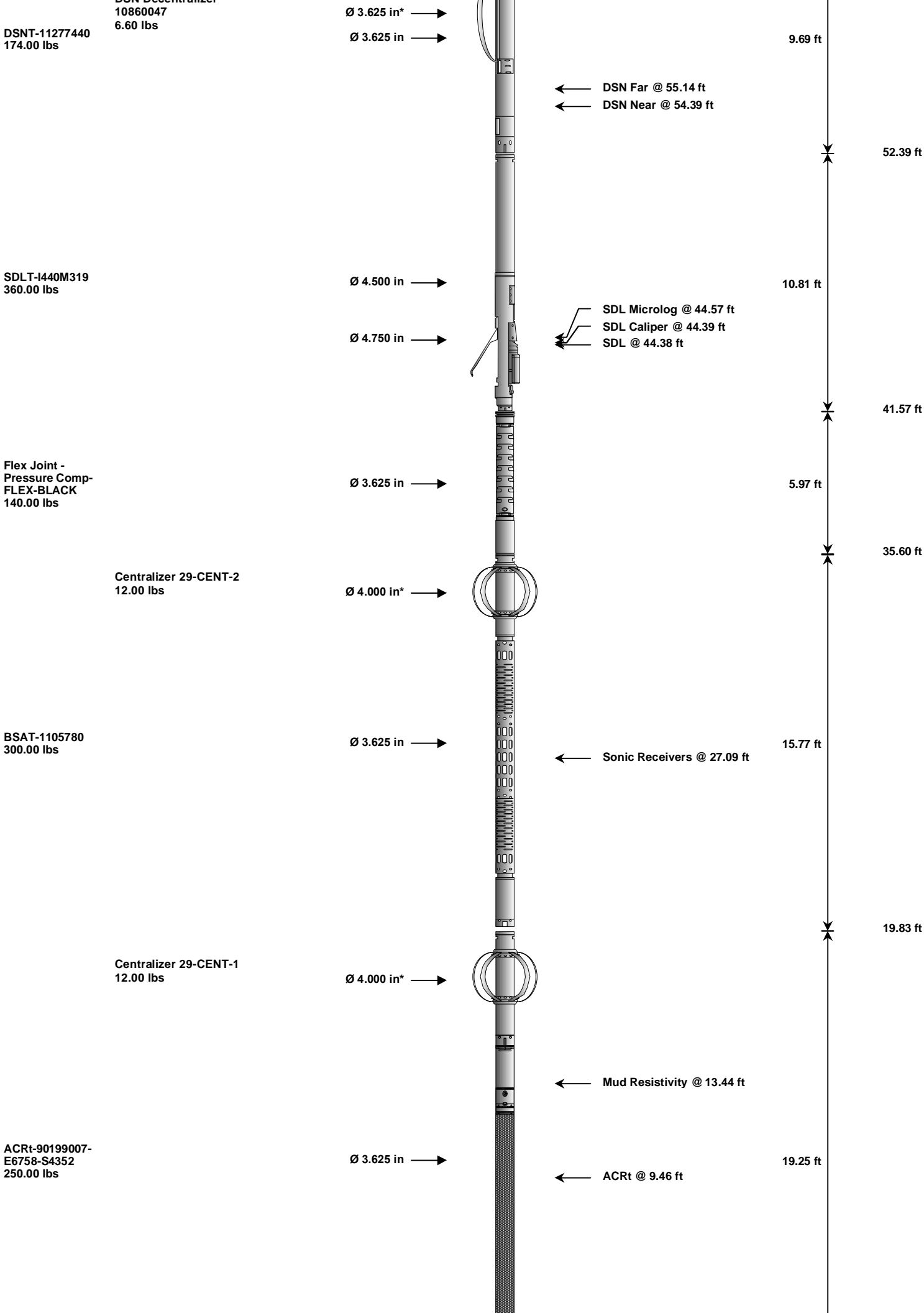
Signal	Lower	R	Upper
12K	0.6	0.8902	1.3
36K	1.0	1.8792	2.0
72K	1.0	1.1270	2.0

## R-MUD VERIFICATION

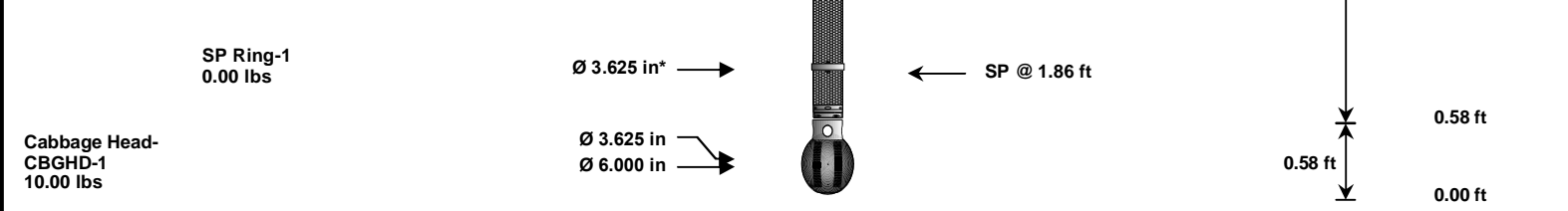
Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
Mud Cell	0.95	1.010	1.05

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11277436						
Gamma Ray Calibrator	234.0	237.0	-----	-3.0	+/- 9.00	api
CSNG-10965402						
60 KEV Peak Channel #	48.0	48.0	-----	0.0	-----	Channel #
239 KEV Peak Channel #	22.8	22.8	-----	0.0	-----	Channel #
583 KEV Peak Channel #	51.3	51.4	-----	-0.1	-----	Channel #
2614 KEV Peak Channel #	210.5	210.7	-----	-0.2	-----	Channel #
DSNT-11277440						
Snow-Block Porosity	0.0782	0.0787	-----	-0.0005	+/- 0.0150	decp
SDLT-I440M319						
Near(B+D+P+L)	1426.058	1427.682	-----	-1.624	+/-15.241	cps
Far(B+D+P+L)	928.906	931.158	-----	-2.252	+/-16.494	cps
Pad Extension	3.75	3.82	-----	-0.07	+/-0.10	in
Ring Diameter	8.25	8.13	-----	0.120	+/-0.15	in
ACRt-90199007-E6758-S4352						
Mud Cell	1.010	-----	-----	0.000	-----	ohm-m
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Mnemonic		Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head		A094	135.00	6.25	78.76	300.00
GTET	Gamma Telemetry Tool		11277436	165.00	8.52	70.24	60.00
CSNG	Compensated Spectral Natural Gamma		10965402	114.00	8.17	62.07	15.00
DSNT	Dual Spaced Neutron		11277440	174.00	9.69	52.39	60.00
DCNT	DSN Decentralizer		10860047	6.60	5.13	* 55.72	300.00
SDLT	Spectral Density Tool		I440M319	360.00	10.81	41.57	60.00
FLEX	Flex Joint - Pressure Compensated		FLEX-BLACK	140.00	5.97	35.60	300.00
BCAS	Borehole Sonic Array Tool		1105780	300.00	15.77	19.83	60.00
OBCEN	Centralizer - 29 in.Overbody		CENT-2	12.00	2.42	* 32.80	300.00
ACRt	Array Compensated True Resistivity		90199007-E6758-S4352	250.00	19.25	0.58	300.00
SP	SP Ring		1	0.00	0.25	* 1.86	300.00
OBCEN	Centralizer - 29 in.Overbody		CENT-1	12.00	2.42	* 16.56	300.00
CBHD	Cabbage Head		CBGHD-1	10.00	0.58	0.00	300.00
Total				1,678.60	85.01		
* Not included in Total Length and Length Accumulation.							
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COMPANY	NOBLE ENERGY		
WELL	ABBEY D01-28		
FIELD	WATTENBERG		
COUNTY	WELD	STATE	CO
HALLIBURTON		SPECTRAL DENSITY DUAL SPACED NEUTRON ARRAY COMPENSATED TRUE RESISTIVITY	