

HALLIBURTON

SPECTRAL DENSITY  
DUAL SPACED NEUTRON  
ARRAY COMPENSATED  
TRUE RESISTIVITY  
LOG

COMPANY	NOBLE ENERGY INC.		
WELL	BASHOR PC AA09-08		
FIELD	WATTENBERG		
COUNTY	WELD		
STATE	CO		
Permanent Datum	GL		Elev. 4693.0 ft
Log measured from	KB		Elev. 4707.0 ft
Drilling measured from	KB		D.F. 4706.0 ft
			G.L. 4693.0 ft
Date	17-Feb-11		
Run No.	ONE		
Depth - Driller	6955.00 ft		
Depth - Logger	6942.0 ft		
Bottom - Logged Interval	6934 ft		
Top - Logged Interval	557 ft		
Casing - Driller	8.625 in @ 558.0 ft		@
Casing - Logger	557.0 ft		
Bit Size	7.875 in		@
Type Fluid in Hole	POLYMER		
Density	8.4 ppq	26.00 s/qt	
PH	8.00 pH	0.0 cp/m	
Source of Sample	MUD CELL		
Rm @ Meas. Temperature	2.400 ohmm @ 75.00 degF		@
Rmf @ Meas. Temperature	2.16 ohmm @ 75.00 degF		@
Rmc @ Meas. Temperature	1.969 ohmm @ 75.00 degF		@
Source Rmf	CHART	CHART	
Rm @ BHT	0.92 ohmm @ 206.0 degF		@
Time Since Circulation	9.0 hr		
Time on Bottom	17-Feb-11 22:38		
Max. Rec. Temperature	206.0 degF @ 6942.0 ft		@
Equipment	11454566	BRIGHTON	
Recorded By	F. LODER		
Witnessed By	J. TUNER		

COMPANY NOBLE ENERGY INC.  
WELL BASHOR PC AA09-08  
FIELD WATTENBERG  
COUNTY WELD  
STATE CO

API No. 05123326420000  
Location SURFACE LOCATION: 2080.0' FNL & 620.0' FEL  
LATITUDE: 40.502930°  
LONGITUDE: -104.434540°


Other Services:  
RWCH  
CSNG

Sect. 9 Twp. 6N Rge. 63W

Service Ticket No.: 7977684						API Serial No.: 05123326420000`						PGM Version: WL INSITE R3.2.3 (Build 5)																	
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 E2817				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.				Run No.		ONE		Run No.		ONE															
Serial No.		11294346		Serial No.				Serial No.		M271P123		Serial No.		10858655															
Model No.		GTET		Model No.				Model No.		SDLT		Model No.		DSNT															
Diameter		3.625"		No. of Cent.				Diameter		4.75"		Diameter		3.625"															
Detector Model No.		2G8-BICORN		Spacing				Log Type		GAM-GAM		Log Type		NEU-NEU															
Type		SCINT						Source Type		Cs137		Source Type		Am241Be															
Length		8"		LSA [Y/N]				Serial No.		2770GW		Serial No.		DSN434															
Distance to Source		18'		FWDA [Y/N ]				Strength		1.5 Ci		Strength		15 Ci															
LOGGING DATA																													
GENERAL				GAMMA				ACOUSTIC				DENSITY				NEUTRON													

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	DSNT	NLIT	Neutron Lithology	Sandstone	
	SDLT	DMA	Formation Density Matrix	2.680	g/cc
6453.00					
	DSNT	NLIT	Neutron Lithology	Limestone	
	SDLT	DMA	Formation Density Matrix	2.710	g/cc
6758.00					
	SHARED	BS	Bit Size	7.875	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	8.400	ppg
	SHARED	WAGT	Weighting Agent	Natural	
	SHARED	BSAL	Borehole salinity	0.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	2.400	ohmm
	SHARED	TRM	Temperature of Mud	75.0	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	4.500	in
	SHARED	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	6955.00	ft
	SHARED	BHT	Bottom Hole Temperature	206.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	NONE	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	

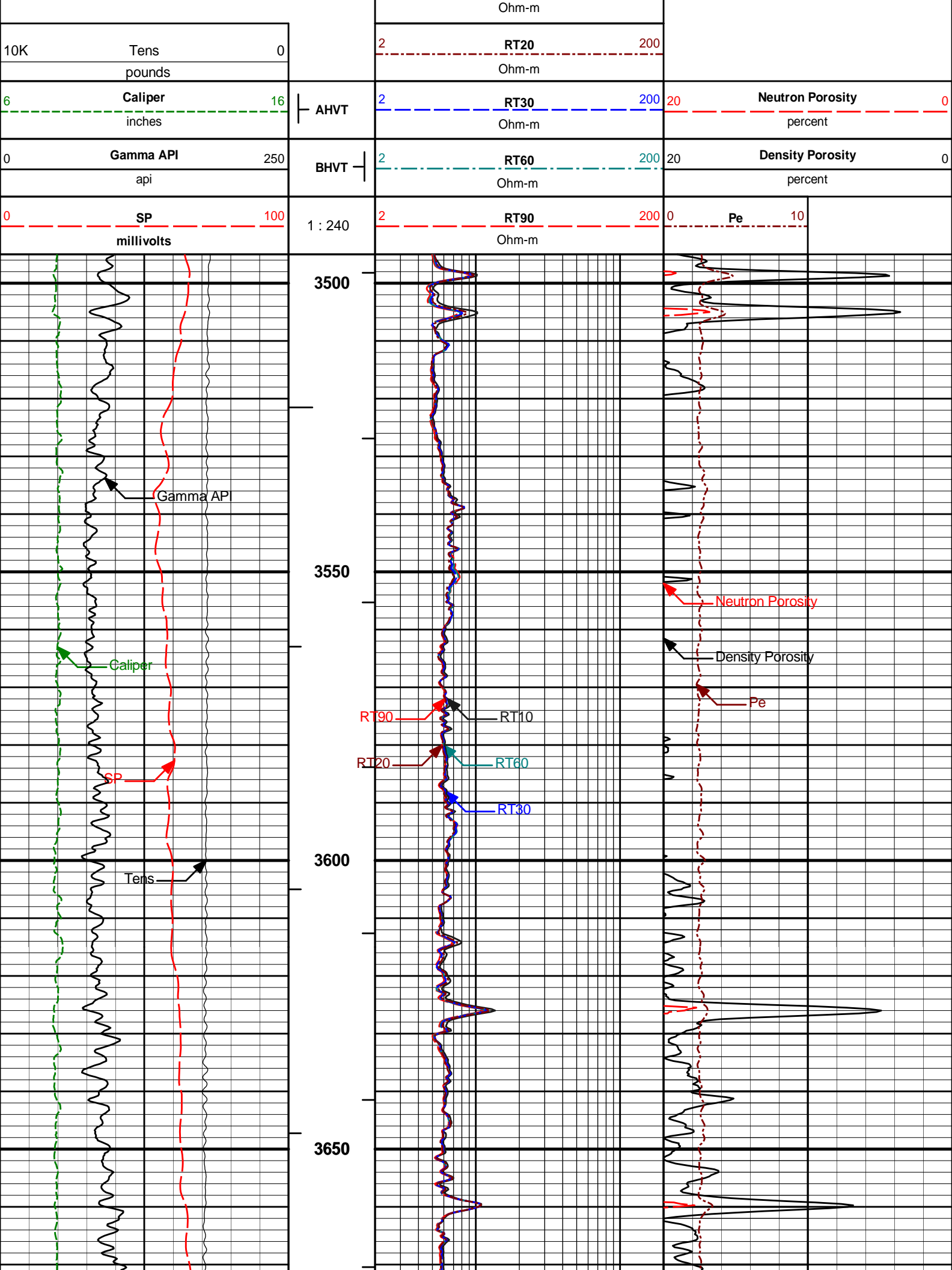
SHARED	TEMM	Temperature Master Tool	NONE	
SHARED	BHSM	Borehole Size Master Tool	NONE	
GTET	GROK	Process Gamma Ray?	Yes	
GTET	GRSO	Gamma Tool Standoff	0.000	in
GTET	GEOK	Process Gamma Ray EVR?	No	
GTET	TPOS	Tool Position	Eccentered	
CSNG	CGOK	Process CSNG Data?	Yes	
CSNG	CENT	Is Tool Centralized?	No	
CSNG	GBOK	Gamma Enviromental Corrections?	Yes	
CSNG	BARF	Barite Correction Factor	1.00	
DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Sandstone	
DSNT	DNSO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.000	in
DSNT	DNTP	Temperature Correction Type	None	
DSNT	DPRS	DSN Pressure Correction Type	None	
DSNT	SHCO	View More Correction Options	No	
DSNT	UTVD	Use TVD for Gradient Corrections?	No	
DSNT	LHWT	Logging Horizontal Water Tank?	No	
SDLT	DNOK	Process Density?	Yes	
SDLT	DNOK	Process Density EVR?	No	
SDLT	CB	Logging Calibration Blocks?	No	
SDLT	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT	DTWN	Disable temperature warning	No	
SDLT	DMA	Formation Density Matrix	2.680	g/cc
SDLT	DFL	Formation Density Fluid	1.000	g/cc
SDLT	CLOK	Process Caliper Outputs?	Yes	
SDLT	MLOK	Process MicroLog Outputs?	Yes	
ACRt	RTOK	Process ACRt?	Yes	
ACRt	MNSO	Minimum Tool Standoff	1.50	in
ACRt	TCS1	Temperature Correction Source	FP Lwr & FP Up	
ACRt	TPOS	Tool Position	Free Hanging	
ACRt	RMOP	Rmud Source	Mud Cell	
ACRt	RMIN	Minimum Resistivity for MAP	0.20	ohmm
ACRt	RMIN	Maximum Resistivity for MAP	200.00	ohmm
ACRt	THQY	Threshold Quality	0.50	
BOTTOM				
Data: BSHR_PC_AA09_08\0001 TRIPLE_CSNG\003.01 17-Feb-11 23:56 Up				Date: 18-Feb-11 00:08:31

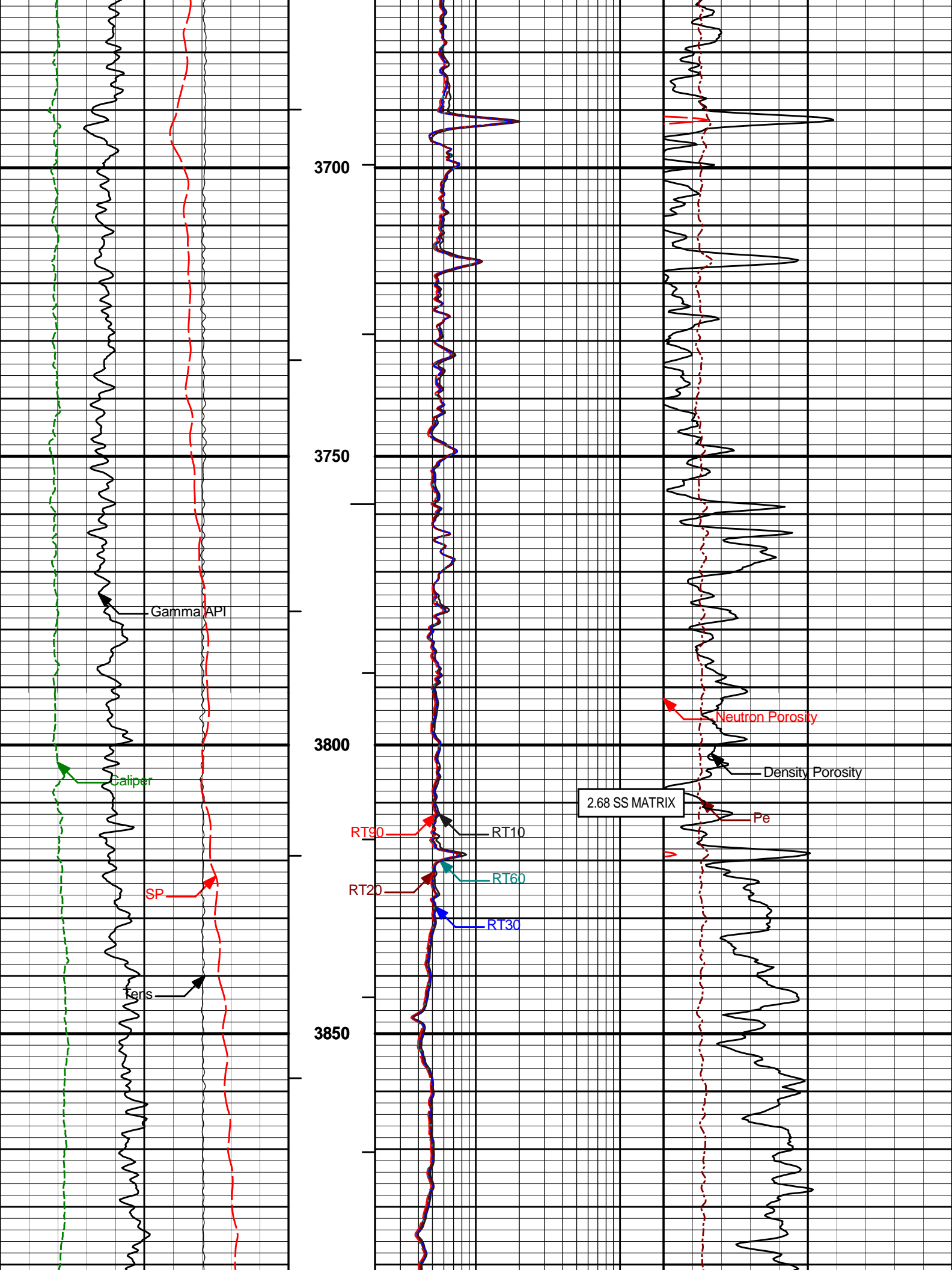


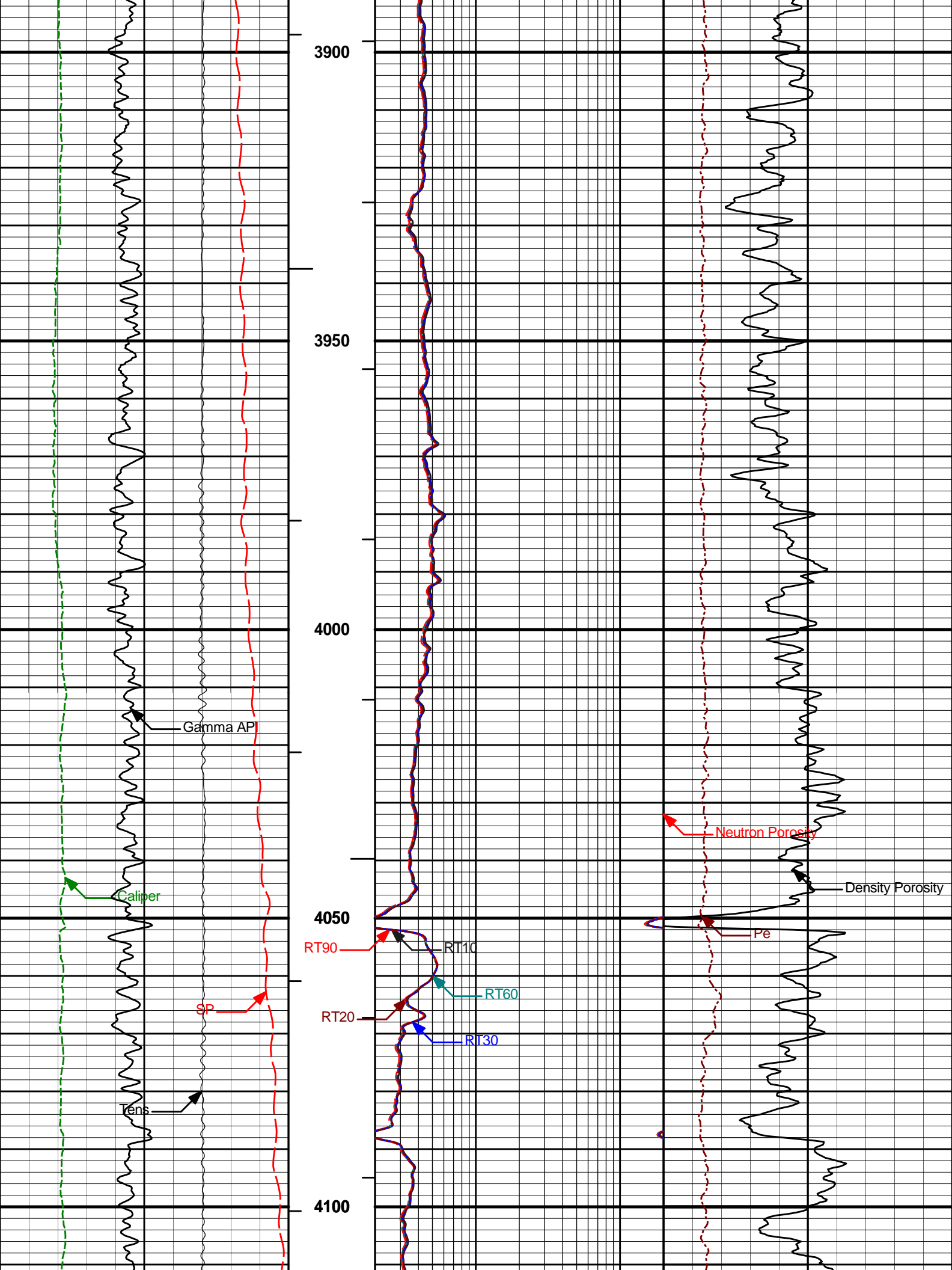
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 Plot File: \COMP\MAIN

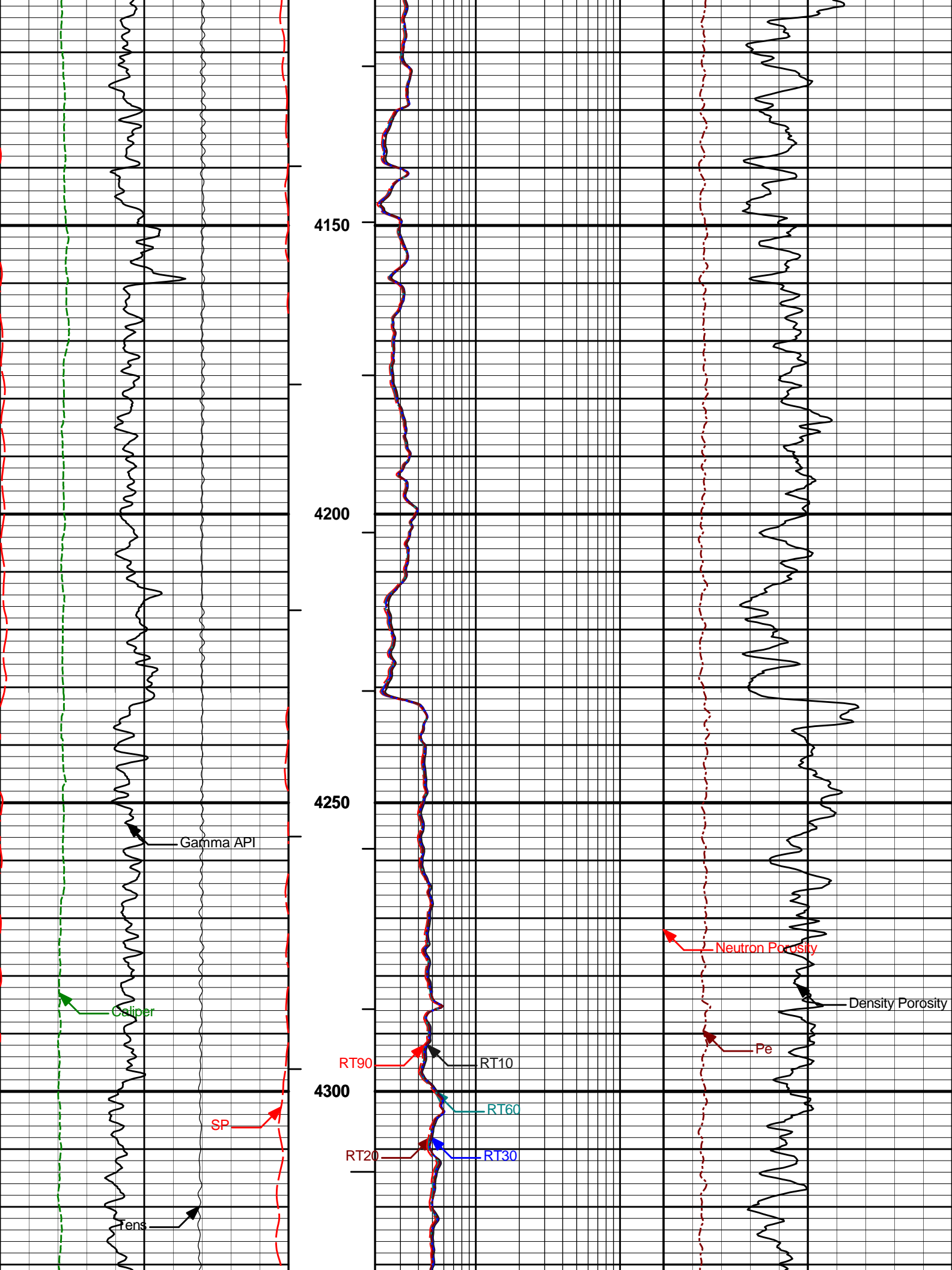
MAIN PASS 5" = 100'

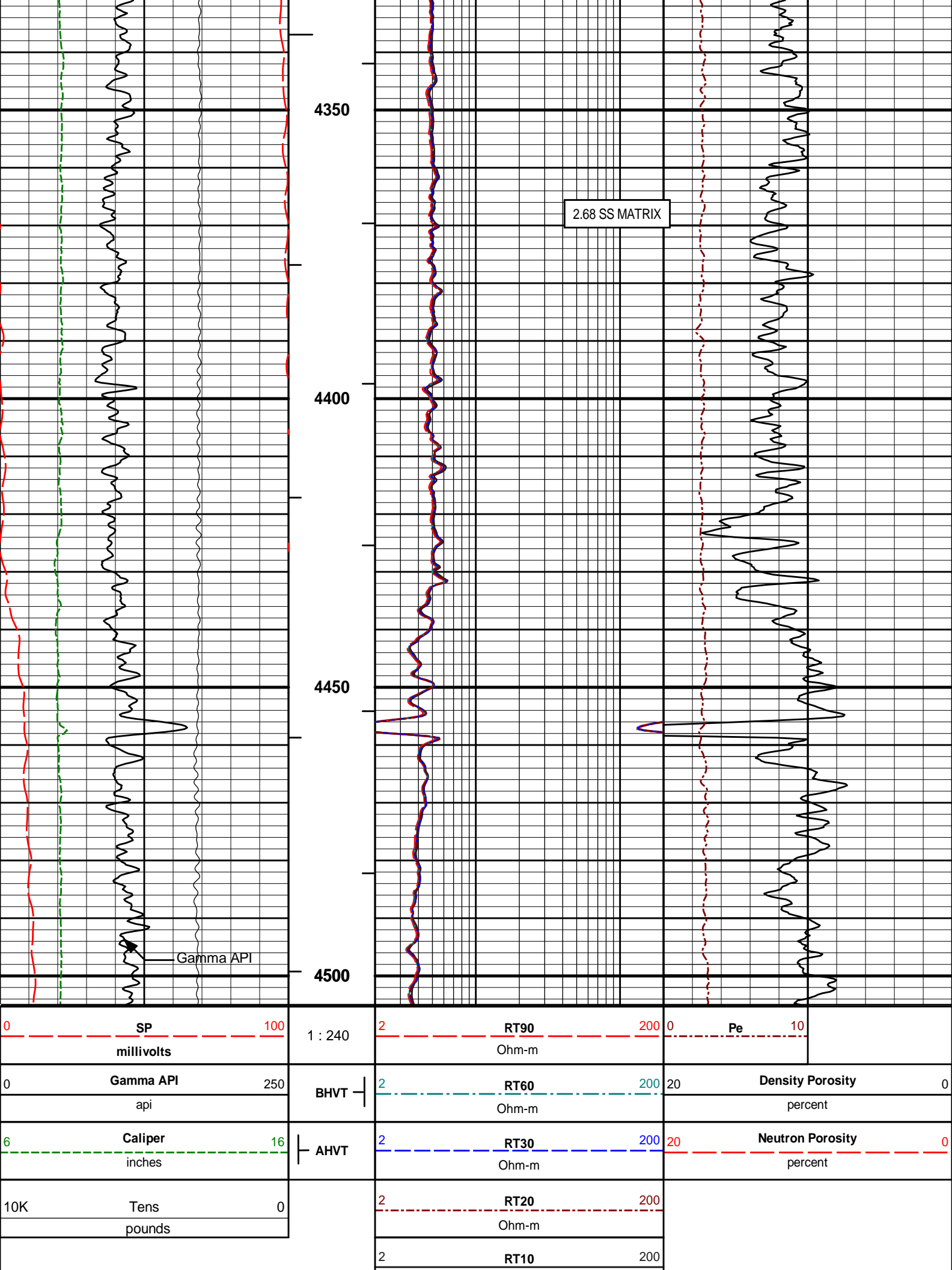
Track 1	Depth Track	Track 2	Track 5	Track 3
		2 RT10 200		













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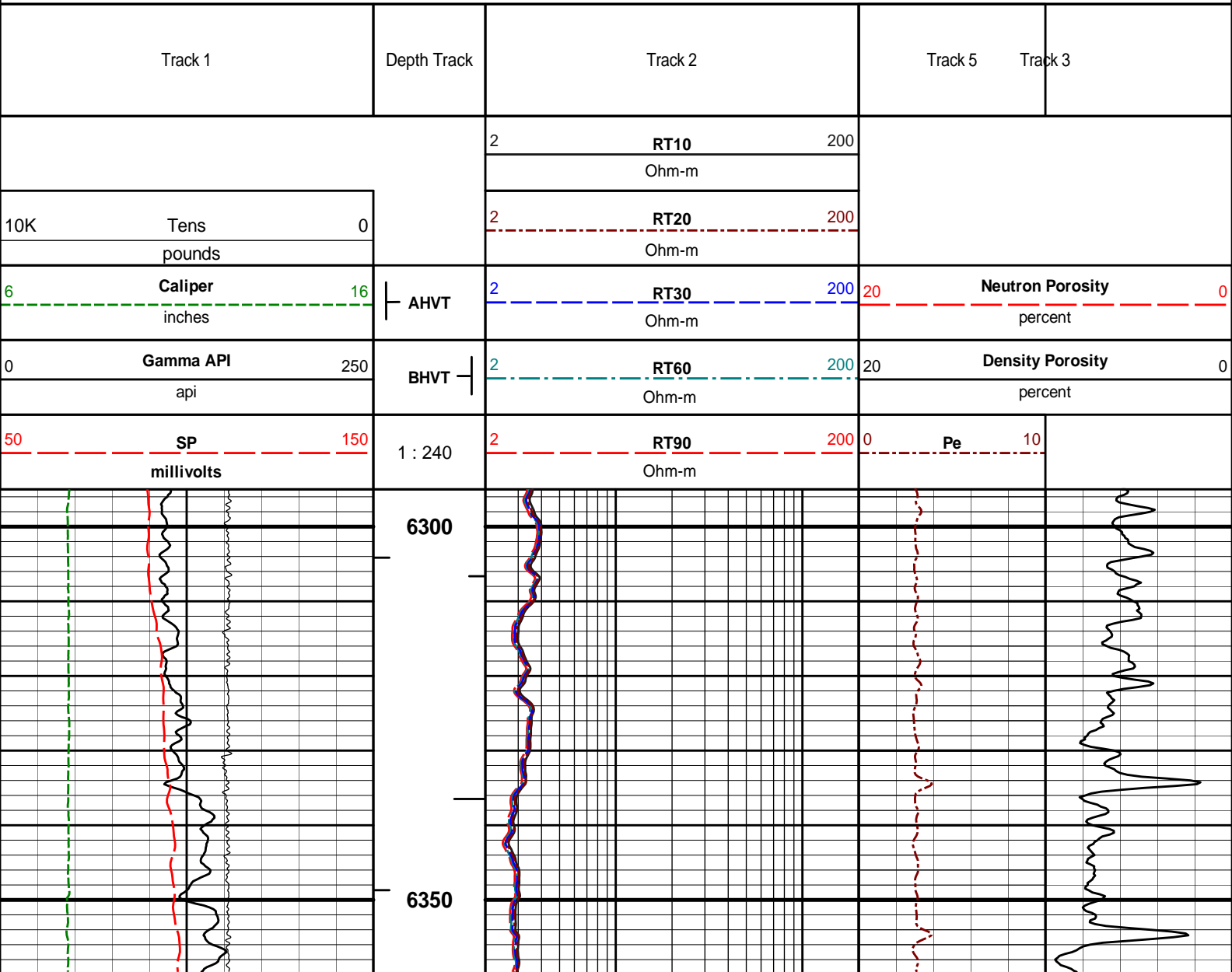
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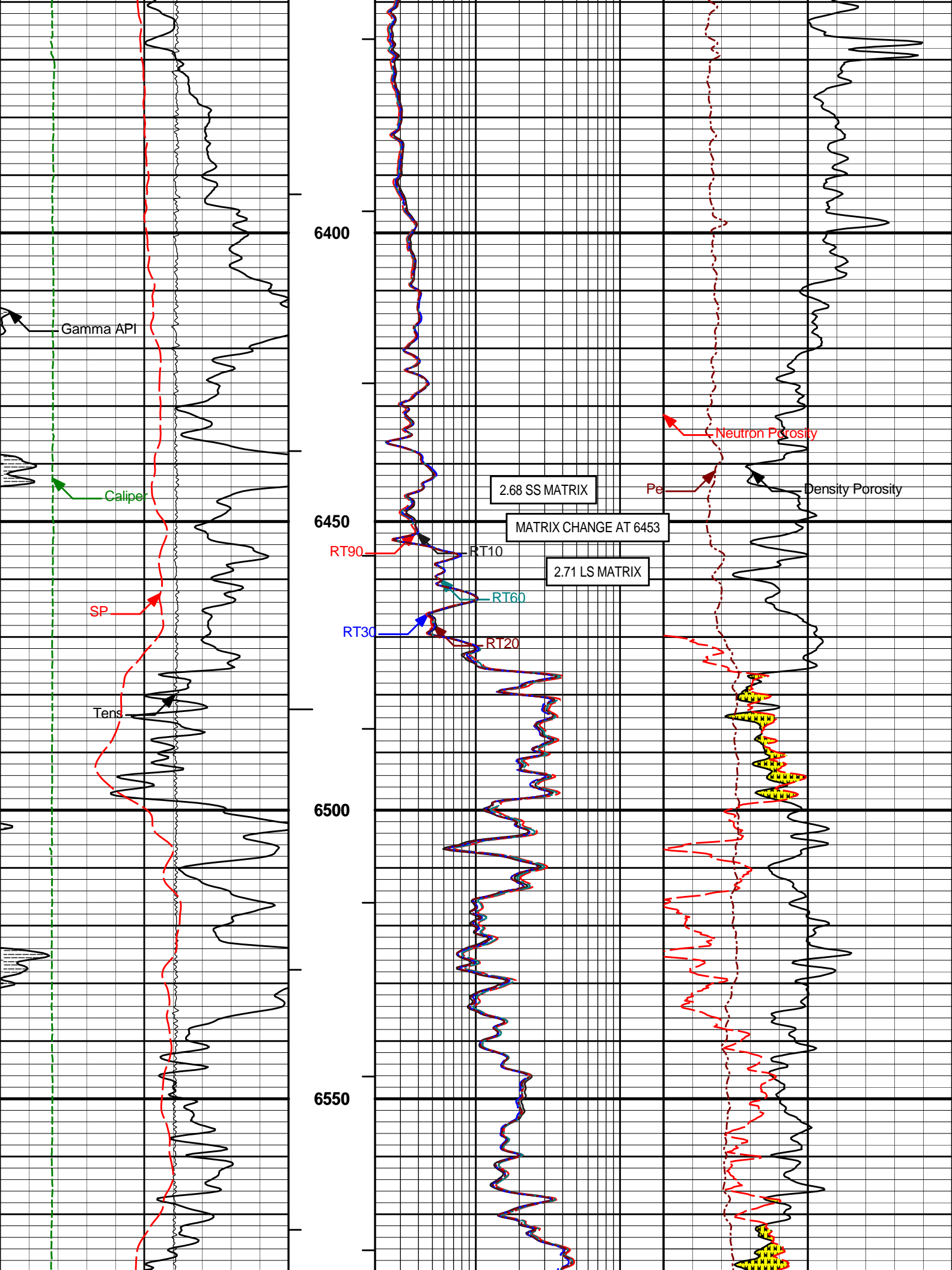
MAIN PASS 5" = 100'

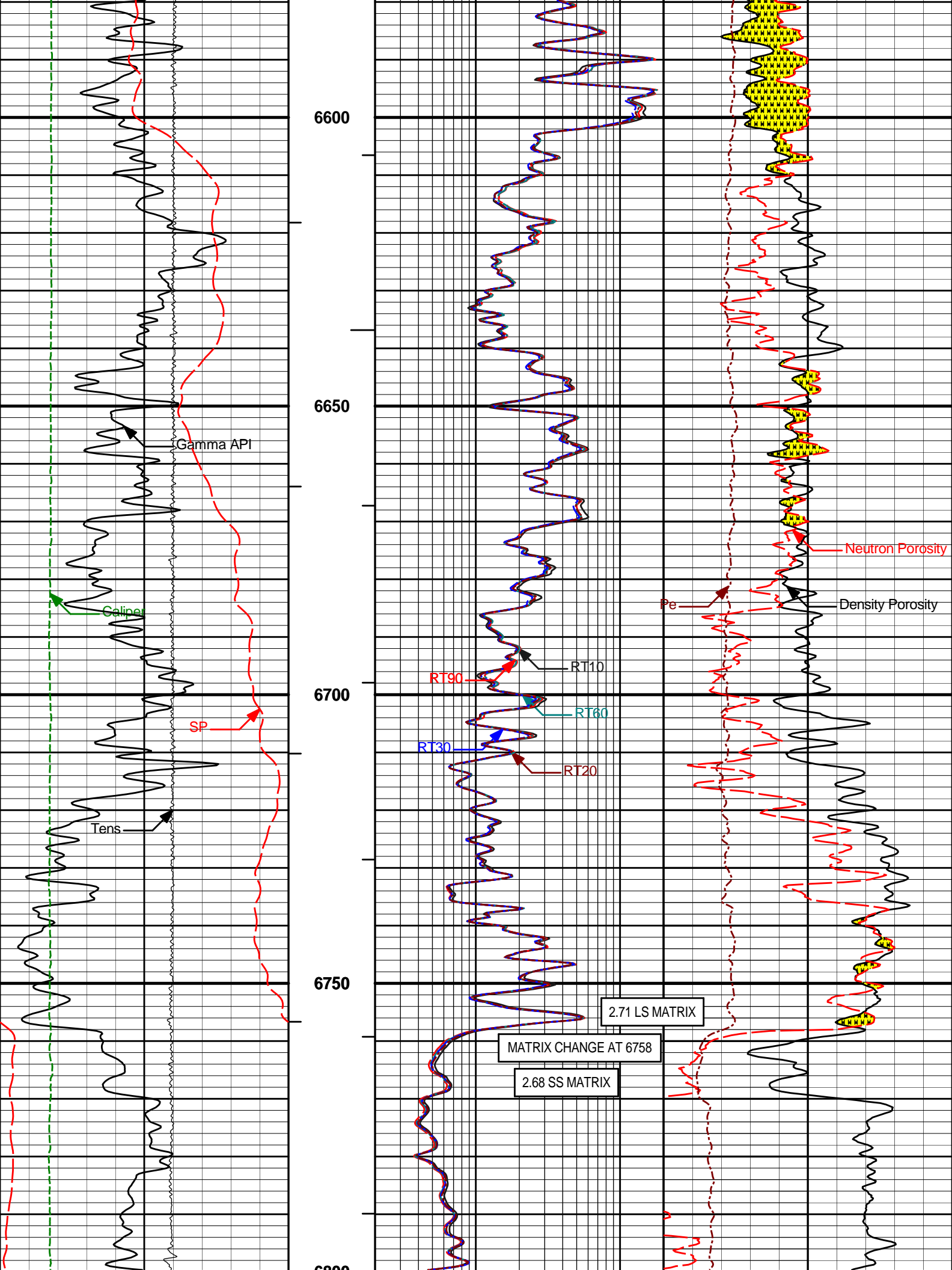
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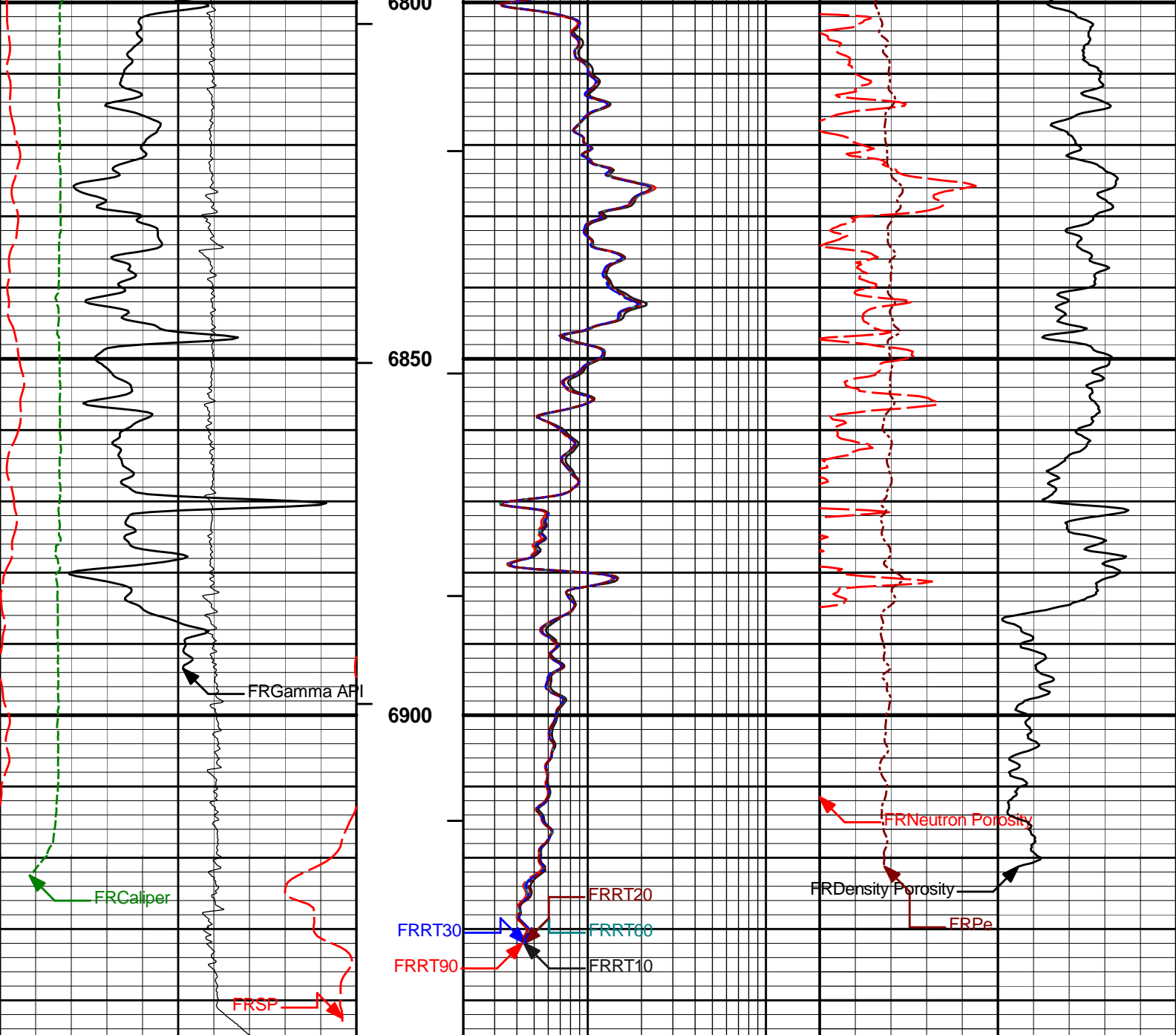
Plot Time: 18-Feb-11 00:42:08  
Plot Range: 6295 ft to 6945.17 ft  
Data: {ActiveWell}\Well Based\MAIN\  
Plot File: \COMP\REPEAT

REPEAT SECTION 5" = 100'









50	SP	150	1 : 240	2	RT90	200	0	Pe	10
	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			
	pounds				Ohm-m				
				2	RT10	200			
					Ohm-m				

**HALLIBURTON**

Plot Time: 18-Feb-11 00:42:12  
 Plot Range: 6295 ft to 6945.17 ft  
 Data: {ActiveWell}\Well Based\MAIN\*  
 Plot File: \COMP\REPEAT

REPEAT SECTION 5" = 100'

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	GTET - 11294346	Reference Calibration Date:	27-Oct-10 13:36:01
Engineer:	C. GULLETT	Calibration Date:	24-Nov-10 08:49:15
Software Version:	WL INSITE R3.0.4 (Build 6)	Calibration Version:	1

Calibrator Source S/N: KW-290  
Calibrator API Reference:230.00 api  
Equivalent Calibrator API Reference:234.0 api

Measurement	Measured	Calibrated	Units
Background	78.2	76.9	api
Background + Calibrator	316.3	311.0	api
Calibrator	232.7	234.0	api

CSNG-FS SHOP CALIBRATION

Tool Name:	CSNG - 10846351	Reference Calibration Date:	02-Dec-09 10:44:01
Engineer:	C. BLUE	Calibration Date:	21-Jan-10 14:42:19
Software Version:	WL INSITE R2.4 (Build 20)	Calibration Version:	1
Source SN:	TB-290		

TITANIUM CASE	Measured	Calibrated	Units
60 KEV Peak Channel #	48.0	48.0	Channel #
239 KEV Peak Channel #	23.1	23.0	Channel #
583 KEV Peak Channel #	52.3	52.2	Channel #
2614 KEV Peak Channel #	215.4	215.0	Channel #
Calibrate Temperature	44.5	49.1	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	1698.7	CPS	329.6	335.0	API
Background	374.0	CPS	68.4	73.8	API

Gamma Ray Gain: 0.99  
Expected Gain Range: 0.85 - 1.15  
Gamma Gain Check: Passed

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name:	DSNT - 10958655_S434	Reference Calibration Date:	01-Jan-70 00:00:00
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Logging Source S/N: DSN434  
Tank Serial Number: BRIGHTON  
Reference value assigned to Tank: 55.000  
Snow Block S/N: BRIGHTON  
Calibration Tank Water Temperature: 50 degF  
Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value

Gain:	0.996	0.996	0.900 - 1.100
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WATER TANK SUMMARY (Horizontal Water Tank)				
Measurement	Current Reading (Previous Coef.)	Calibrated (New Coef.)	Change	Control Limit On Change
Porosity (decp):	0.2295	0.2295	0.0000	+/- 0.0020
Calibrated Ratio:	10.35	10.35	0.000	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit

Snow-Block Porosity (decp):	0.0641	0.02000 - 0.09000
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PASS/FAIL SUMMARY	
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Background Check:	Passed
Gain-Range Check:	Passed
Snow-Block Check:	Passed

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name:	SDLT - M271_P123_BLUE	Reference Calibration Date:	11-Feb-11 13:38:28
Engineer:	C. GULLETT	Calibration Date:	11-Feb-11 13:58:39
Software Version:	WL INSITE R3.2.3 (Build 5)	Calibration Version:	1

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	1.0100	1.0305	0.90 - 1.10
Near Dens Gain	1.0027	1.0090	0.90 - 1.10
Near Peak Gain	0.9810	0.9870	0.90 - 1.10
Near Lith Gain	0.9771	0.9758	0.90 - 1.10
Far Bar Gain	1.0151	1.0200	0.90 - 1.10
Far Dens Gain	1.0052	1.0070	0.90 - 1.10
Far Peak Gain	0.9984	0.9992	0.90 - 1.10
Far Lith Gain	0.9708	0.9729	0.90 - 1.10

Near Bar Offset	0.1654	-0.0198	NONE
Near Dens Offset	0.1976	0.1435	NONE
Near Peak Offset	0.3874	0.3380	NONE
Near Lith Offset	0.4022	0.4135	NONE
Far Bar Offset	0.0696	0.0260	NONE

Far Dens Offset	0.1273	0.1134	NONE
Far Peak Offset	0.1657	0.1608	NONE
Far Lith Offset	0.3499	0.3348	NONE
Near Bar Background	856.21	856.57	700 - 1450
Near Dens Background	280.42	280.00	230 - 480
Near Peak Background	118.43	119.88	100 - 210
Near Lith Background	150.08	150.78	125 - 260
Far Bar Background	541.82	541.23	450 - 900
Far Dens Background	208.47	208.85	175 - 345
Far Peak Background	81.11	81.49	70 - 140
Far Lith Background	86.40	85.81	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	2.538	2.551	0.013	+/- 0.150
ALUMINUM				
Density (g/cc)	2.598	2.600	0.002	+/- 0.01500
Pe	3.070	3.059	-0.011	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0007	+/- 0.0110	-0.0014	+/- 0.0140
Magnesium Block	0.0004	+/- 0.0110	-0.0001	+/- 0.0140
Aluminum Block	-0.0012	+/- 0.0110	-0.0010	+/- 0.0140
Resolution	9.43	6.00 - 11.50	9.59	6.00 - 11.50
Internal Verifier(B+D+P+L)	1407	1200 - 2700	917	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 - M271_P123_BLUE	Reference Calibration Date:	11-Feb-11 13:58:39
Engineer:	C. GULLETT	Calibration Date:	11-Feb-11 14:02:01
Software Version:	WL INSITE R3.2.3 (Build 5)	Calibration Version:	1

Pad Temperature: 64.7 degF

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1407.220	1408.005	0.785	15.147

Far (B+D+P+L) cps	917.379	917.718	0.339	16.422
Near Resolution	9.43	9.36	-0.070	0.50
Far Resolution	9.59	9.72	0.130	1.00

PASS/FAIL SUMMARY	
Bkg Quality Check:	Passed
Bkg Resolution Check:	Passed
Bkg Verification Check:	Passed

DENSITY CALIPER SHOP CALIBRATION			
Tool Name:	SDLT - M271_P123_BLUE	Reference Calibration Date:	01-Jan-70 00:00:00
Engineer:	C. GULLETT	Calibration Date:	11-Feb-11 14:23:12
Software Version:	WL INSITE R3.2.3 (Build 5)	Calibration Version:	1

CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-1251.85	-1251.85	-7000.00 - -1000.00
Pad Gain	0.0003732	0.0003732	0.000200 - 0.000600
Arm Offset	-432.07	-432.07	-5000.00 - 3000.00
Arm Gain	0.0005212	0.0005212	0.000300 - 0.000700
Arm Power	-0.000005174	-0.000005174	-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)	2.00	2.00	0.00	+/- 0.20
Medium Ring (in)	3.75	3.75	0.00	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.50	6.50	0.00	+/- 0.20
Medium Ring (in)	8.25	8.25	0.00	+/- 0.20
Large Ring (in)	15.00	15.00	0.00	+/- 0.20

PASS/FAIL SUMMARY	
Calibration-Coefficients Range Check:	Passed
Ring-Measurement Check:	Passed
PASS/FAIL SUMMARY	
Calibration-Coefficients Range Check:	Passed


ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION			
Tool Name:	ACRt - 90199477-E2817-	Reference Calibration Date:	04-Jun-10 17:05:07
Engineer:	C. BLUE	Calibration Date:	13-Aug-10 20:06:47
Software Version:	WL INSITE R3.0.4 (Build 6)	Calibration Version:	1

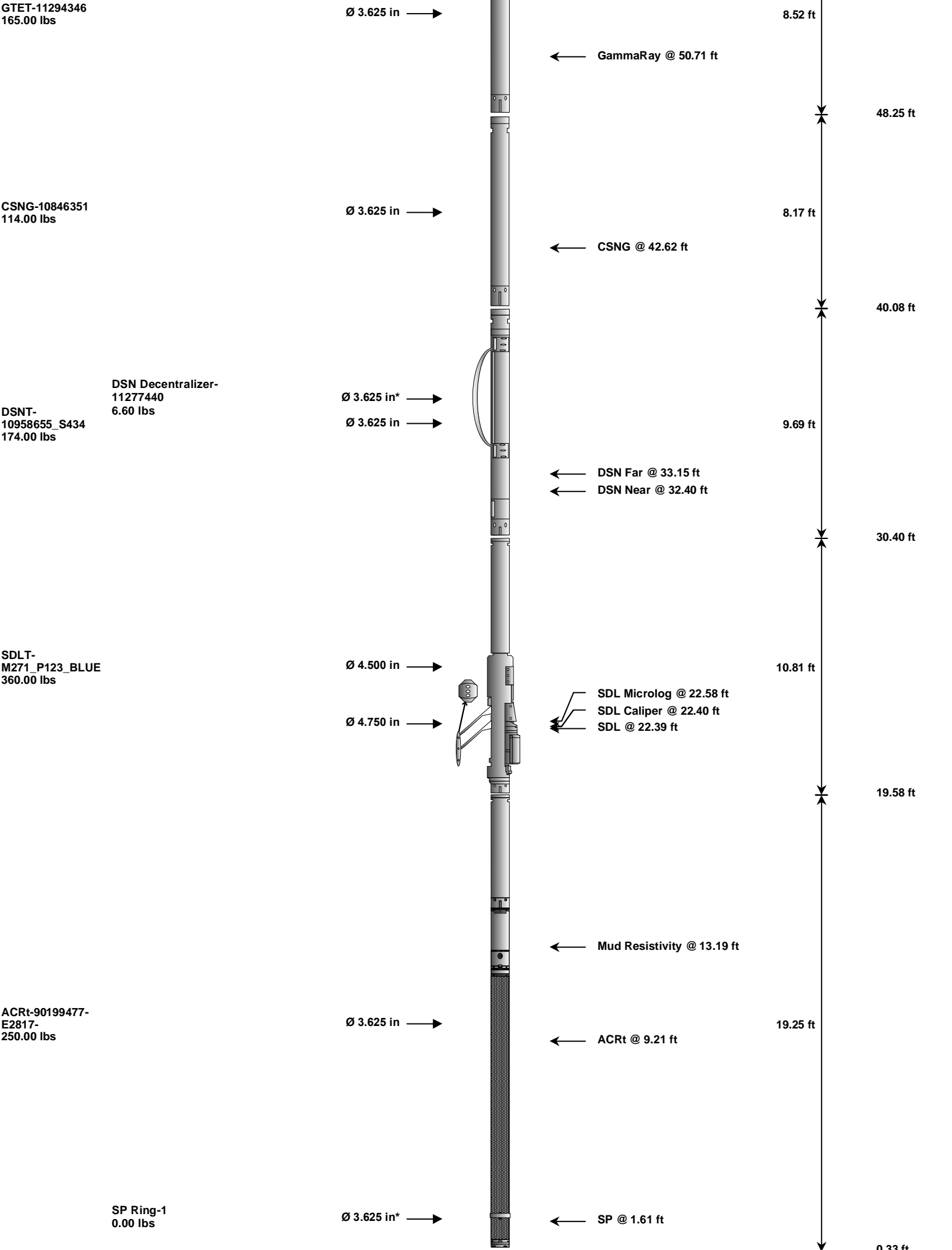
TYPICAL GAIN RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0167	1.05	0.95	1.0163	1.05	0.95	1.0146	1.05
A2 (50")	0.95	1.0118	1.05	0.95	1.0132	1.05	0.95	1.0128	1.05
A3 (29")	0.95	1.0069	1.05	0.95	1.0085	1.05	0.95	1.0057	1.05
A4 (17")	0.95	1.0150	1.05	0.95	1.0133	1.05	0.95	1.0143	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.0000	1.05	0.95	0.9992	1.05



A6 (6")	N/A	N/A	N/A	0.95	0.9881	1.05	0.95	0.9862	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	-0.995	2	-6	-4.514	-2	-8	-4.963	-2
A2 (50")	-7	-1.354	-1	-6	-2.867	-2	-7	-4.762	-2
A3 (29")	-27	-13.303	-9	-9	-3.580	-3	-7	-3.628	-1
A4 (17")	-180	-90.373	-60	-45	-29.209	-15	-39	-25.034	-13
A5 (10")	N/A	N/A	N/A	-150	-90.980	-50	-80	-43.898	-10
A6 (6")	N/A	N/A	N/A	175	329.261	525	90	166.175	270
TRANSMITTER CURRENT GAIN					R-MUD VERIFICATION				
Signal	Lower	R	Upper		Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)	
12K	0.6	0.9189	1.3		Mud Cell	0.95	0.996	1.05	
36K	1.0	1.8306	2.0						
72K	1.0	1.1584	2.0						

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11294346						
Gamma Ray Calibrator	234.0	-----	-----	0.0	+/- 9.00	api
CSNG-10846351						
60 KEV Peak Channel #	48.0	-----	-----	0.0	-----	Channel #
239 KEV Peak Channel #	23.0	-----	-----	0.0	-----	Channel #
583 KEV Peak Channel #	52.2	-----	-----	0.0	-----	Channel #
2614 KEV Peak Channel #	215.0	-----	-----	0.0	-----	Channel #
DSNT-10958655_S434						
Snow-Block Porosity	0.0641	-----	-----	0.0000	+/- -.--	decp
SDLT-M271_P123_BLUE						
Near(B+D+P+L)	1407.220	1408.005	-----	-0.785	+/-15.147	cps
Far(B+D+P+L)	917.379	917.718	-----	-0.339	+/-16.422	cps
Pad Extension	3.75	-----	-----	0.00	+/-0.20	in
Ring Diameter	8.25	-----	-----	0.00	+/-0.20	in
ACRt-90199477-E2817-						
Mud Cell	0.996	-----	-----	0.000	-----	ohm-m
Data: BSHR_PC_AA09_08\0001 TRIPLE_CSNG\003 17-Feb-11 22:38 Up @6945.8f					Date: 18-Feb-11 00:09:42	

HALLIBURTON						
TOOL STRING DIAGRAM REPORT						
Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
RWCH-A094 135.00 lbs		Ø 3.625 in →		← Load Cell @ 59.34 ft ← BH Temperature @ 58.77 ft	6.25 ft	63.02 ft
						56.77 ft



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	56.77	300.00
GTET	Gamma Telemetry Tool	11294346	165.00	8.52	48.25	60.00
CSNG	Compensated Spectral Natural Gamma	10846351	114.00	8.17	40.08	15.00
DSNT	Dual Spaced Neutron	10958655_S434	174.00	9.69	30.40	60.00
DCNT	DSN Decentralizer	11277440	6.60	5.13	*	33.73
SDLT	Spectral Density Tool	M271_P123_BLUE	360.00	10.81	19.58	60.00
ACRt	Array Compensated True Resistivity	90199477-E2817-	250.00	19.25	0.33	300.00
SP	SP Ring	1	0.00	0.25	*	1.61
BLNS	Bull Nose	BN	5.00	0.33	0.00	300.00
Total			1,209.60	63.02		
						* Not included in Total Length and Length Accumulation.
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COMPANY	NOBLE ENERGY INC.		
WELL	BASHOR PC AA09-08		
FIELD	WATTENBERG		
COUNTY	WELD	STATE	CO
HALLIBURTON		SPECTRAL DENSITY DUAL SPACED NEUTRON ARRAY COMPENSATED TRUE RESISTIVITY LOG	