

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

Fold here

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	TD	6956	REC	0	250				20	0	2.68	20	0	SAND	
ONE	6956	6682	REC	0	250				20	0	2.71	20	0	LIME	
ONE	6682	CSG	REC	0	250				20	0	2.68	20	0	SAND	
DIRECTIONAL INFORMATION															
Maximum Deviation									@	KOP					@
Remarks: RWCH-GTET-CSNG-DSNT-SDLT-ACRt RUN IN COMBINATION.															
ANNULAR HOLE VOLUME CALCULATED USING 4.5-INCH PRODUCTION CASING.															
TENSION PULLS, WASHOUTS AND BOREHOLE RUGOSITY AFFECT LOG RESPONSE.															
DSNT DECENTRALIZER NOT RUN AT CLIENT'S REQUEST.															
REPEAT PASS NOT RUN AT CLIENT'S REQUEST.															
YOUR CREW TODAY: A. DUNCAN, B. GODFREY, C. CRADDOCK, S. SPEAK, I. KHALID RIG: ENSIGN 136															
THANK YOU FOR USING HALLIBURTON LOGGING SERVICES - BRIGHTON, CO - (303) 825-4346															
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PARAMETERS REPORT

Depth ((ft))	Tool Name	Mnemonic	Description	Value	Units
TOP					
	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	10.400	ppg
	SHARED	WAGT	Weighting Agent	Natural	
	SHARED	BSAL	Borehole salinity	850.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	2.000	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	7173.00	ft
	SHARED	BHT	Bottom Hole Temperature	200.0	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 for Gamma Ray Tools.	Eccentered	
	CSNG	CSOK	Process CSNG Data?	Yes	

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		
CSNG	ORDG	Use Fixed Gain	No		
CSNG	ORDO	Use Fixed Offset	No		
CSNG	ORDR	Use Fixed Resolution Degradation Factor	No		
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	0.250		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	CLOK	Process Caliper Outputs?	Yes		
SDLT Pad	DNOK	Process Density?	Yes		
SDLT Pad	DNOK	Process Density EVR?	No		
SDLT Pad	CB	Logging Calibration Blocks?	No		
SDLT Pad	SPVT	SDLT Pad Temperature Valid?	Yes		
SDLT Pad	DTWN	Disable temperature warning	No		
SDLT Pad	DMA	Formation Density Matrix	2.680		g/cc
SDLT Pad	DFL	Formation Density Fluid	1.000		g/cc
ACRt Sonde	RTOK	Process ACRt?	Yes		
ACRt Sonde	MNSO	Minimum Tool Standoff	1.25		in
ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Up		
ACRt Sonde	TPOS	Tool Position	Eccentered		
ACRt Sonde	RMOP	Rmud Source	Mud Cell		
ACRt Sonde	RMIN	Minimum Resistivity for MAP	0.20		ohmm
ACRt Sonde	RMIN	Maximum Resistivity for MAP	200.00		ohmm
ACRt Sonde	THQY	Threshold Quality	0.50		

BOTTOM

Data: LDS_D08-29\0001 NOBLE\IDLE

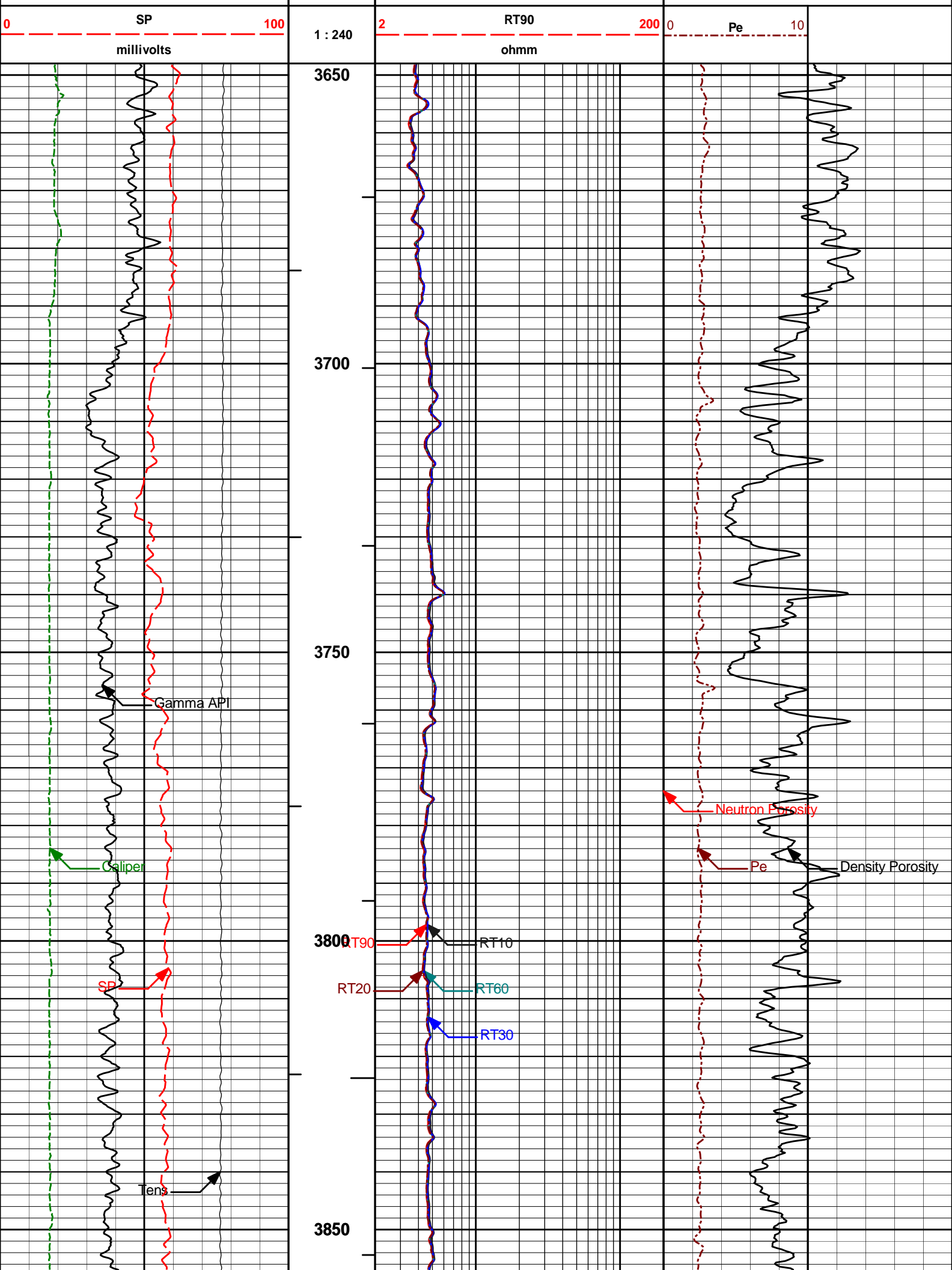
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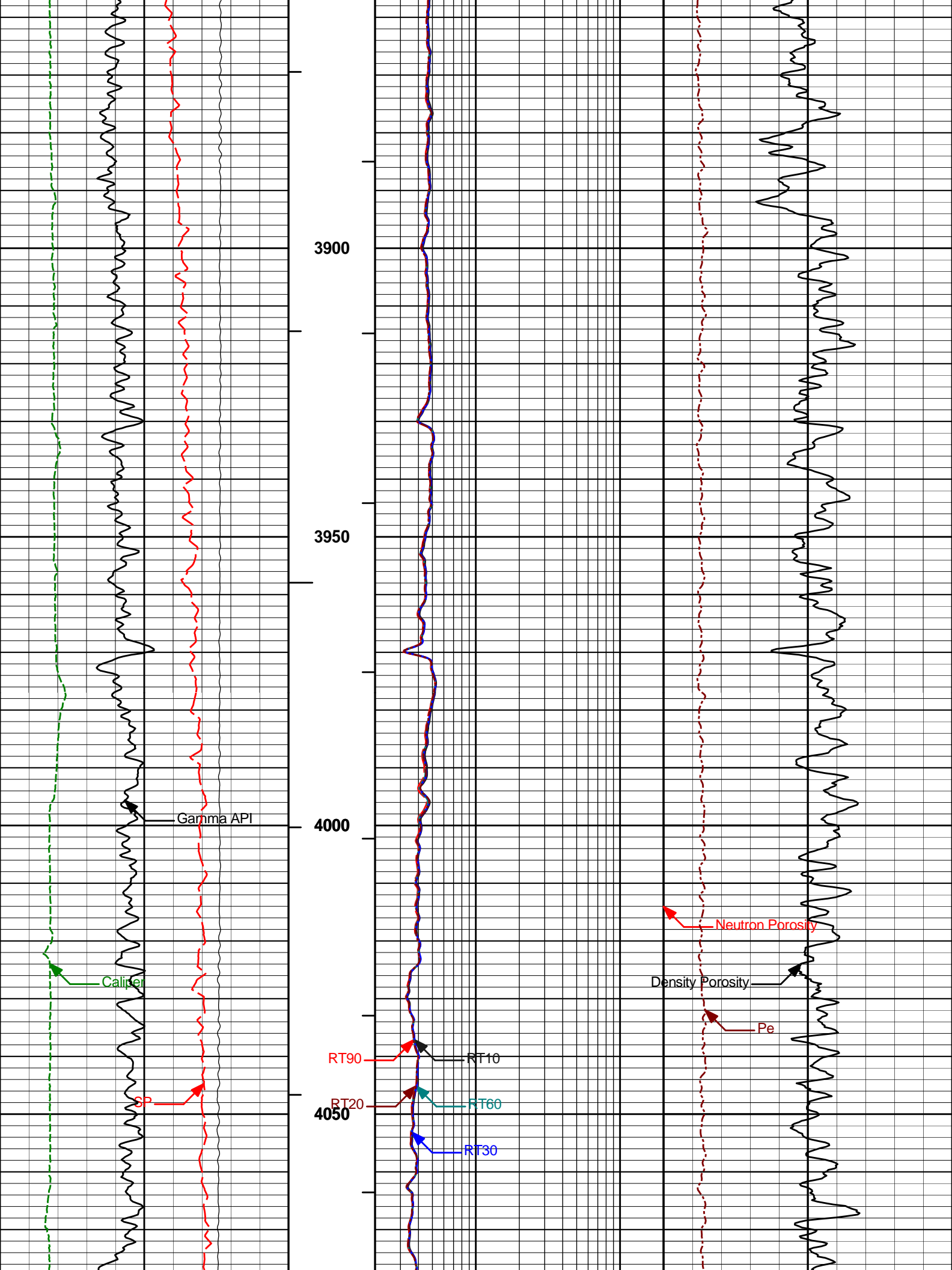
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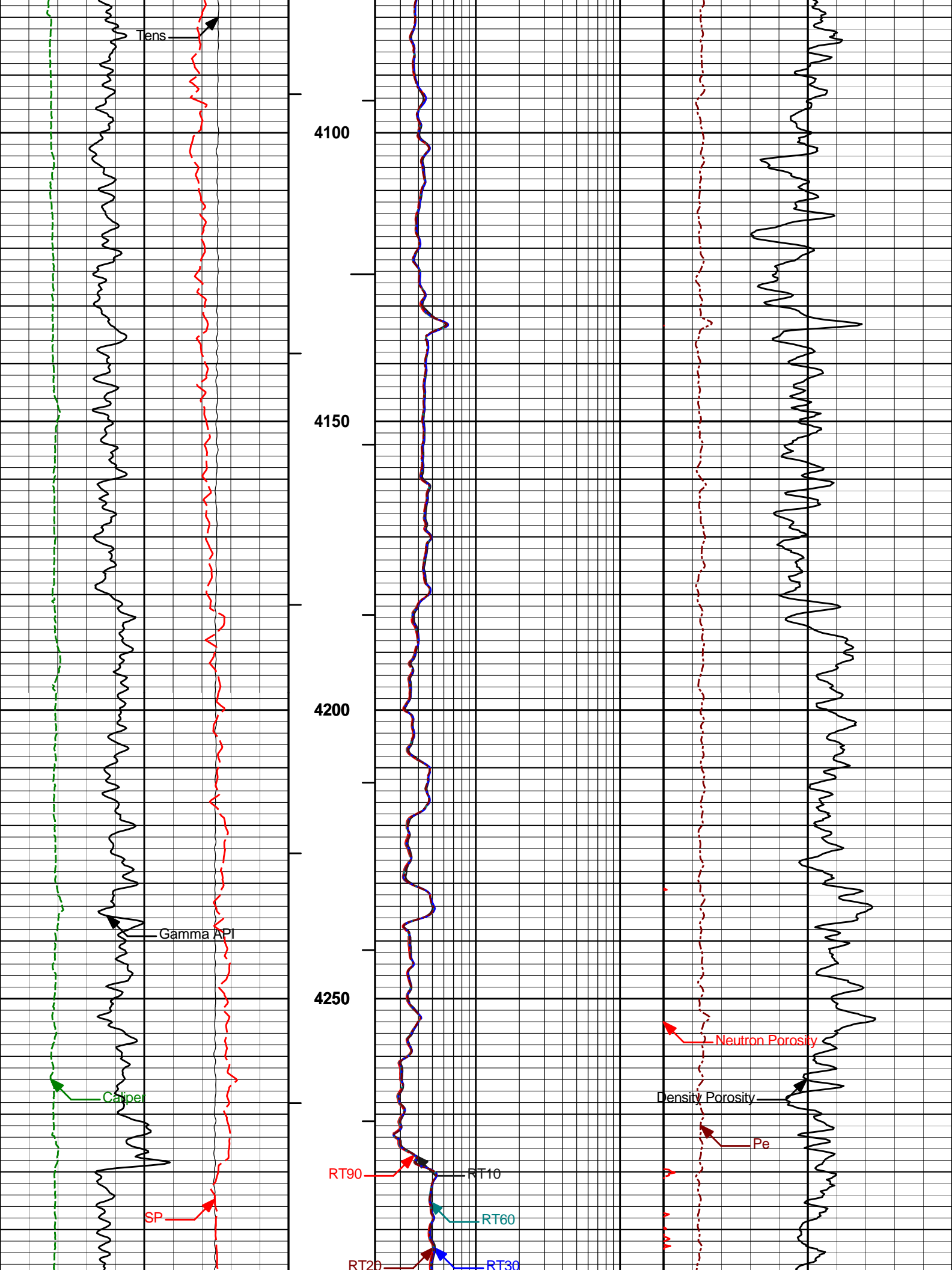
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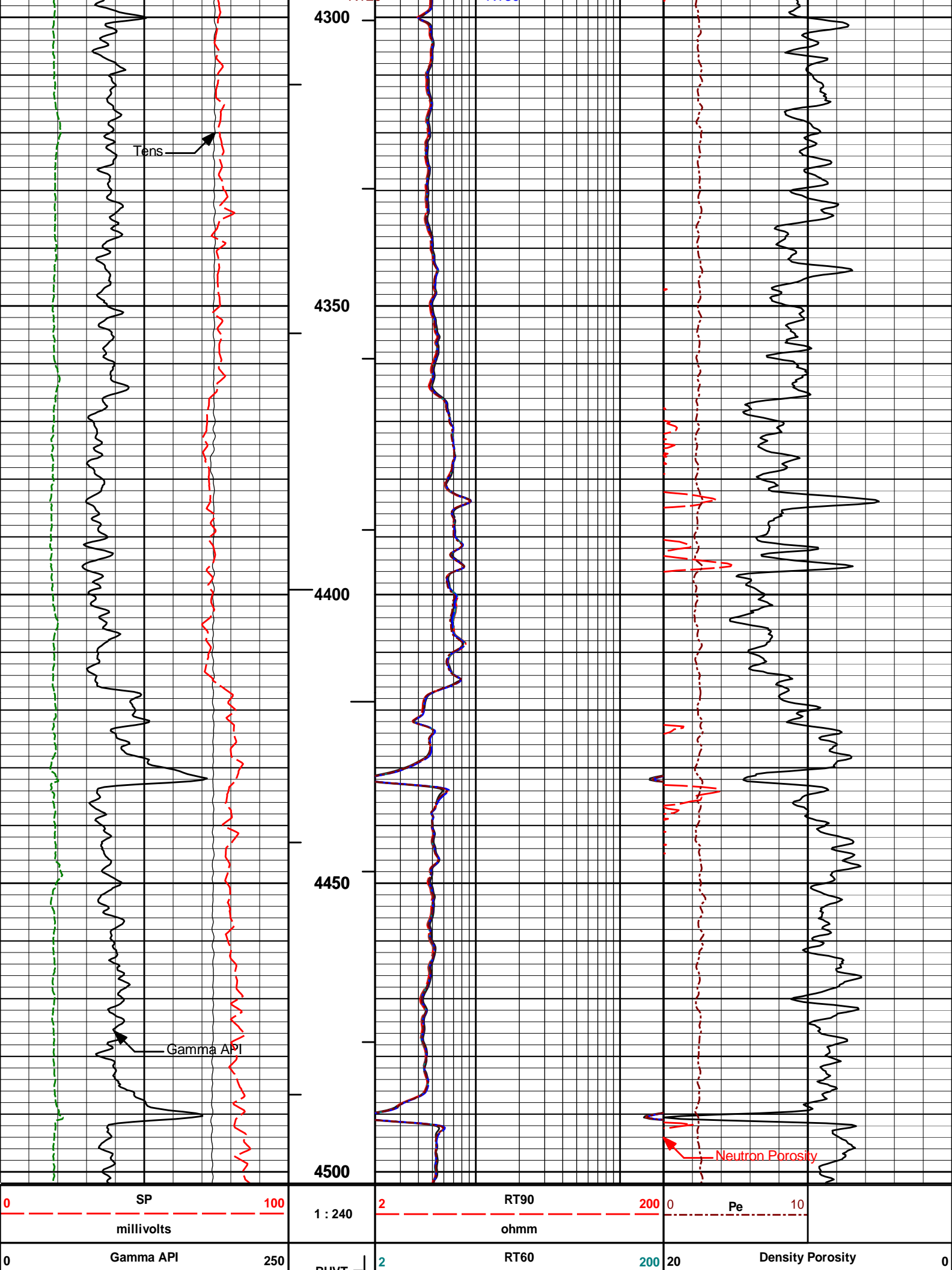
MAIN PASS 5" = 100'

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









	api		BHVT		ohmm		percent
6	Caliper	16	AHVT	2	RT30	200	20 Neutron Porosity
	inches				ohmm		percent
10K	Tens	0		2	RT20	200	
	pounds				ohmm		
				2	RT10	200	
					ohmm		

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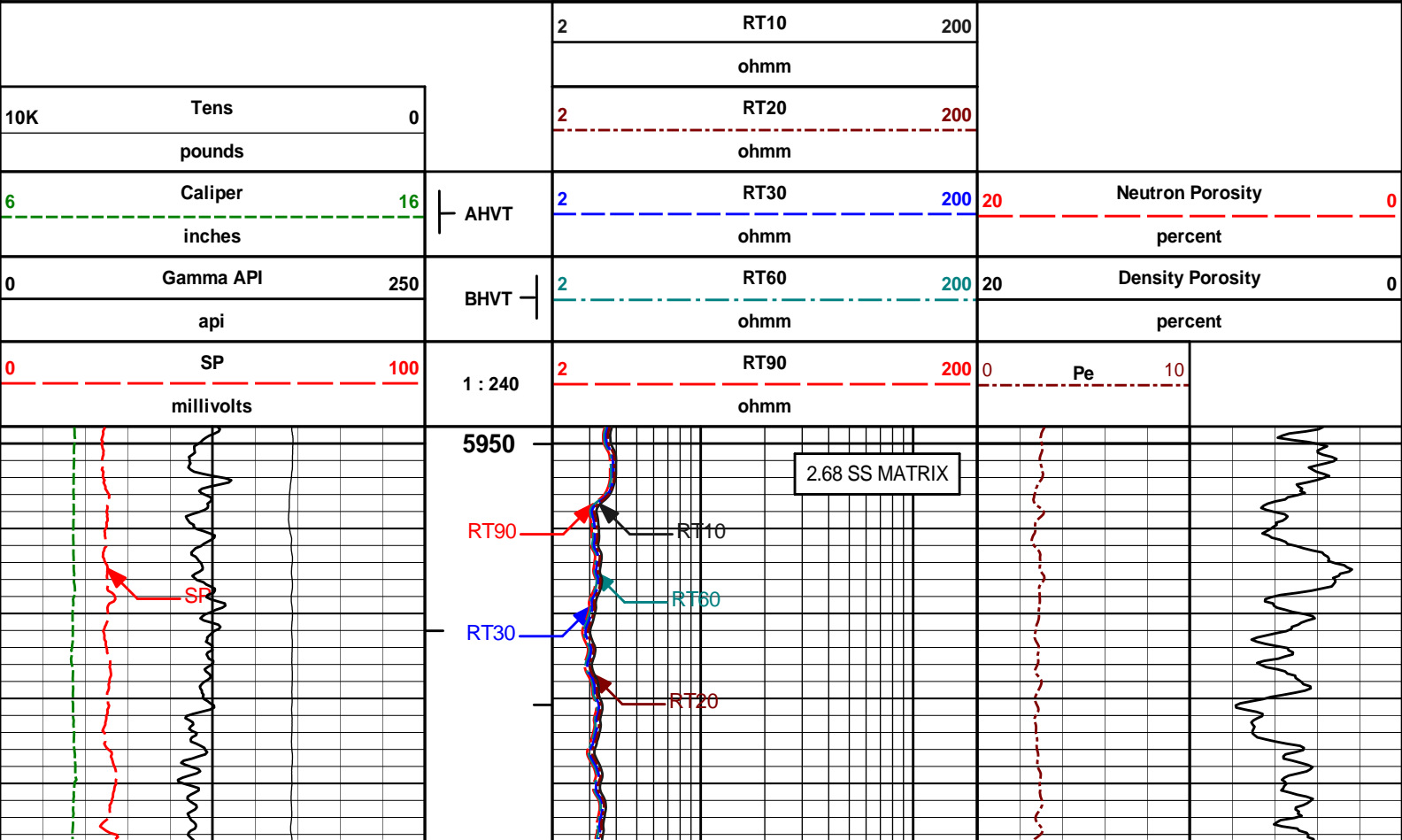
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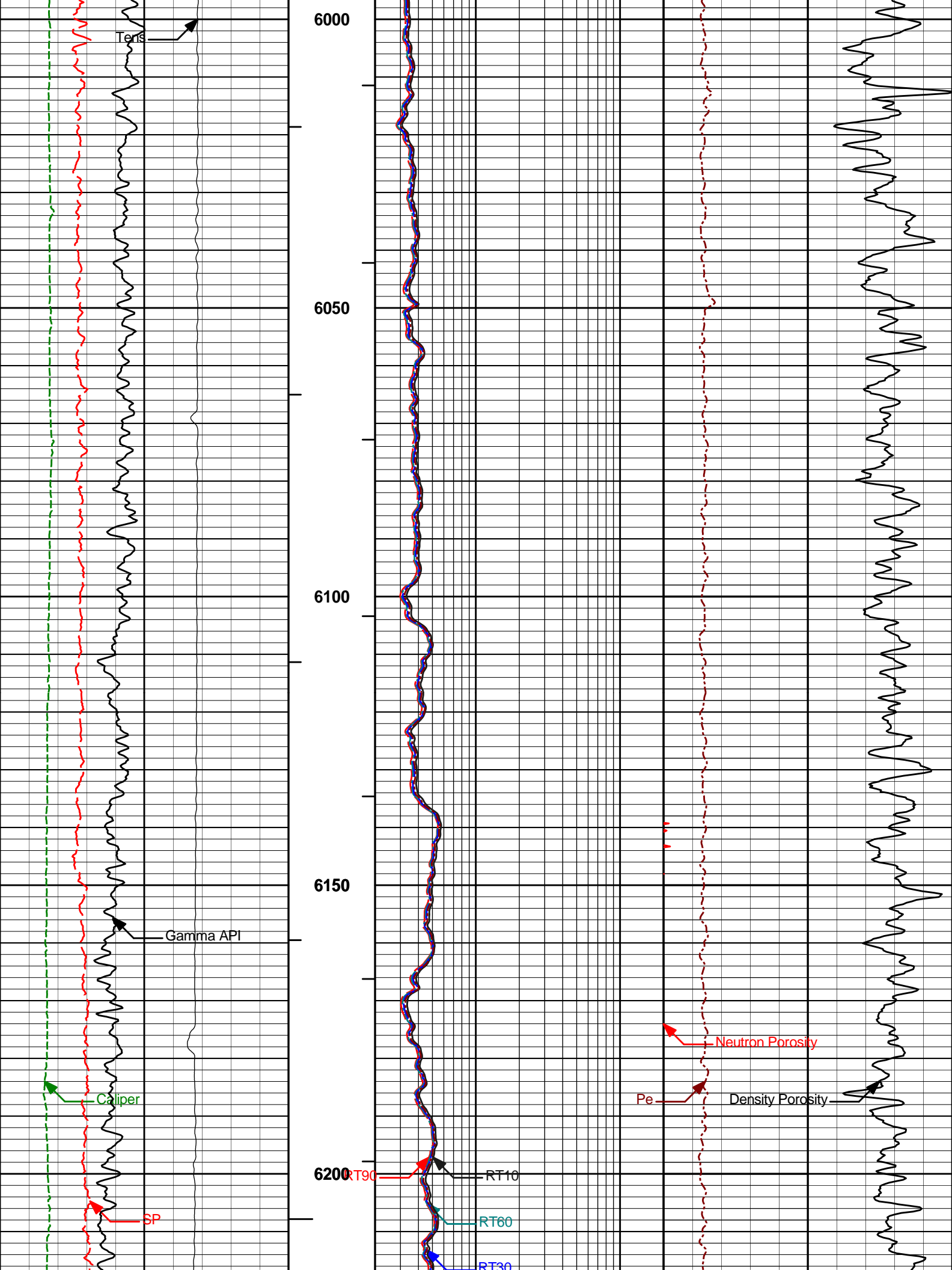
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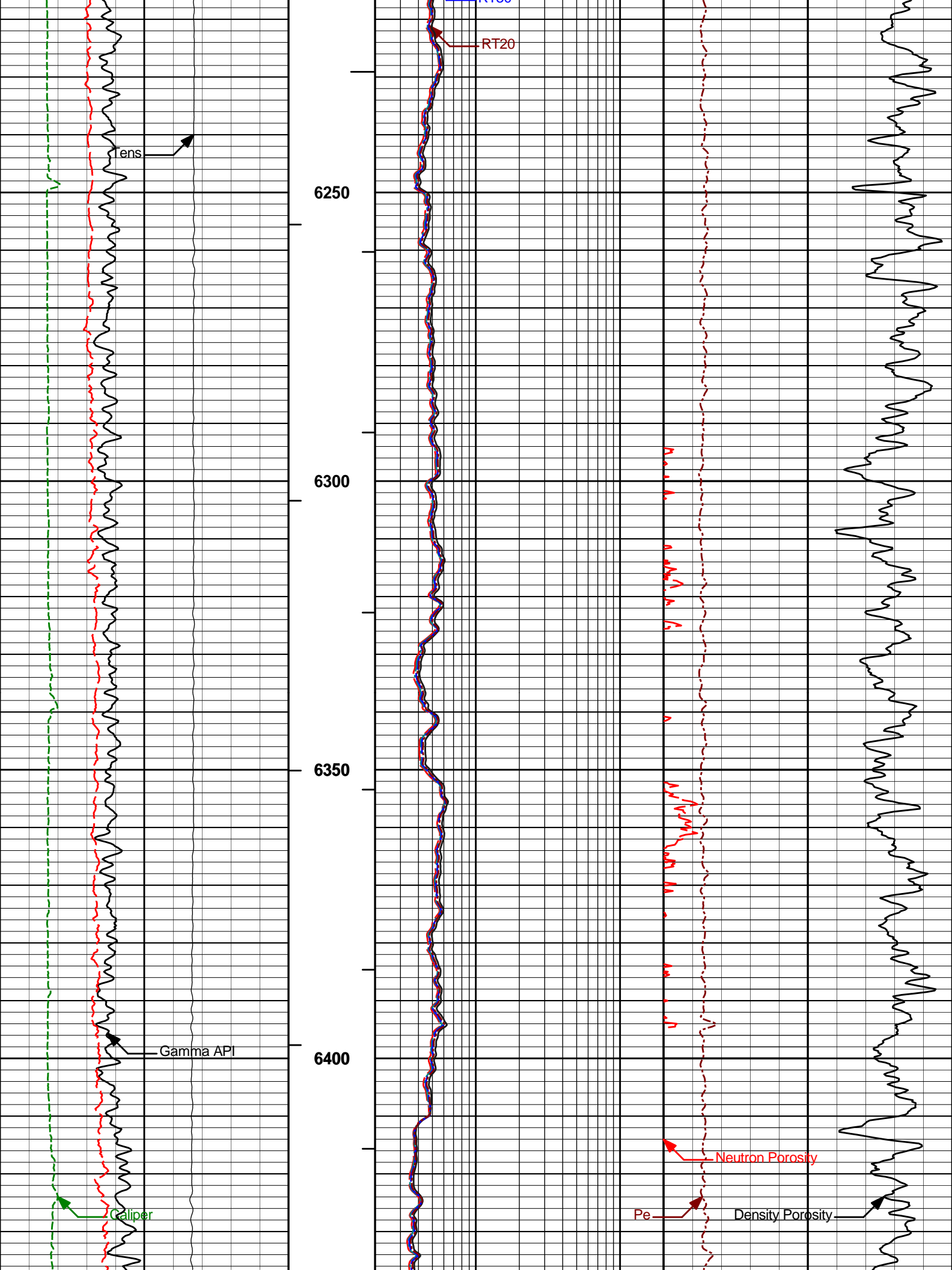
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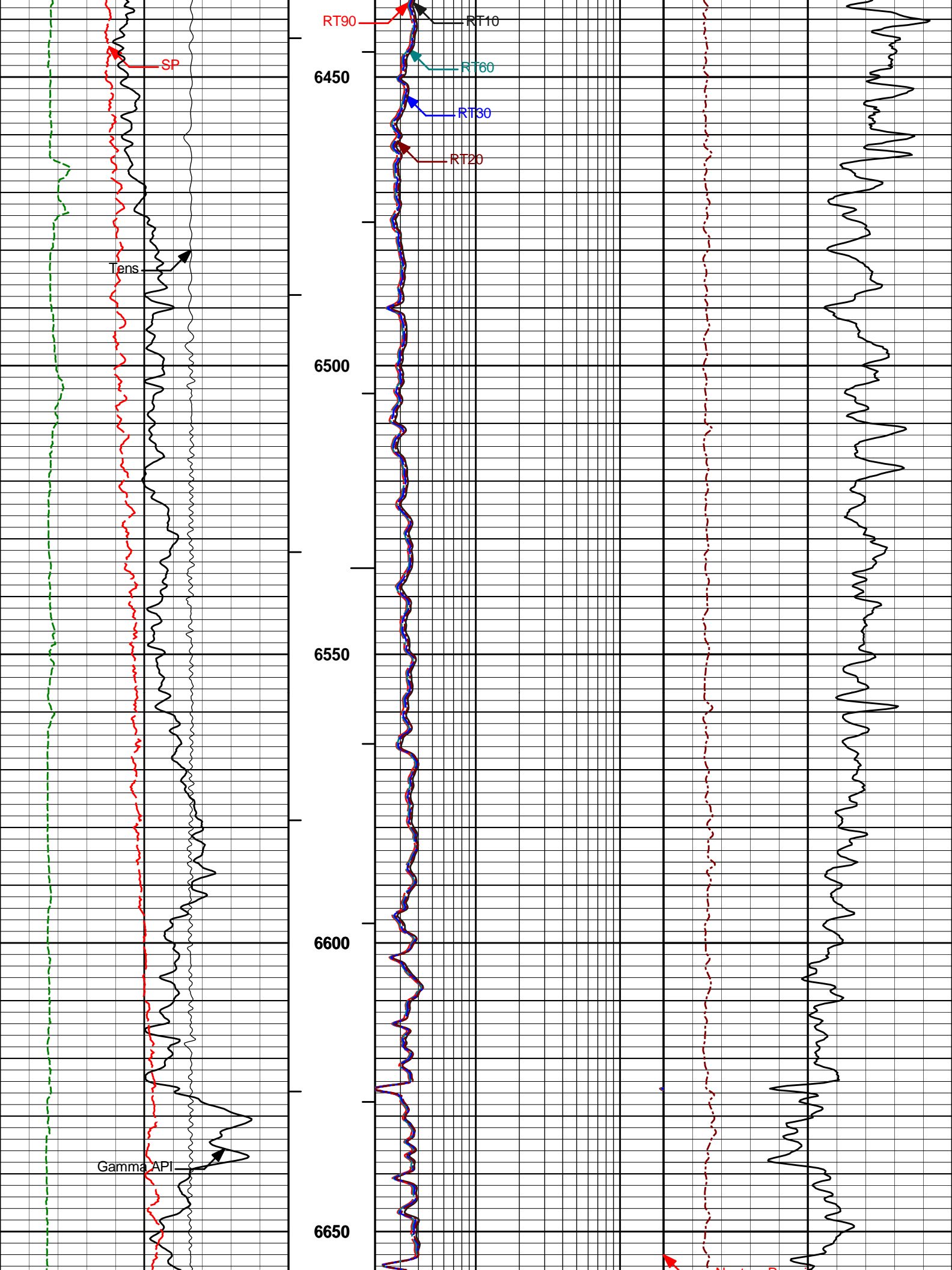
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Data: LDS_D08-29\Well Based\MAIN*
Plot File: \\COMP\TD-NIO

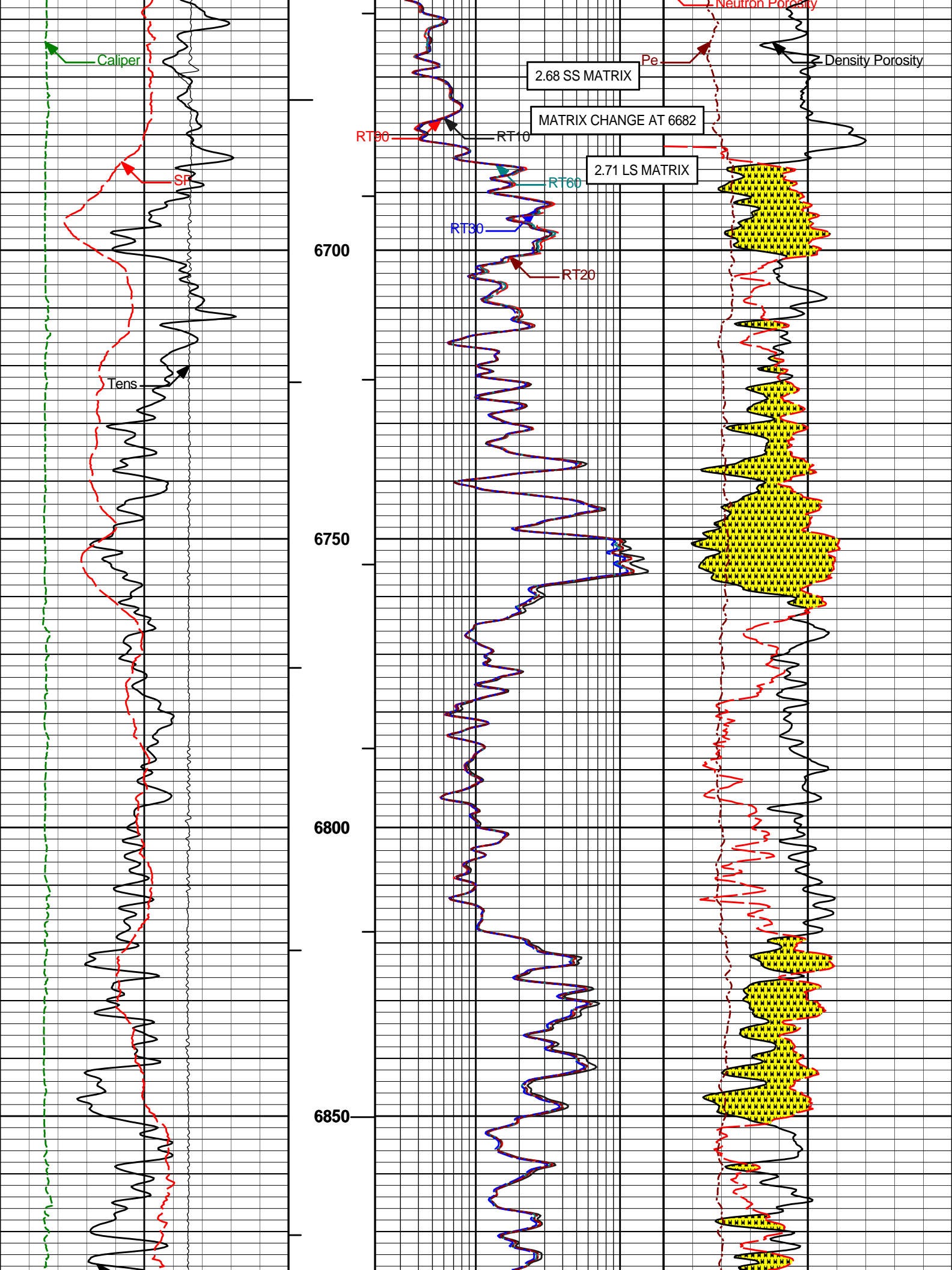
MAIN PASS 5" = 100'

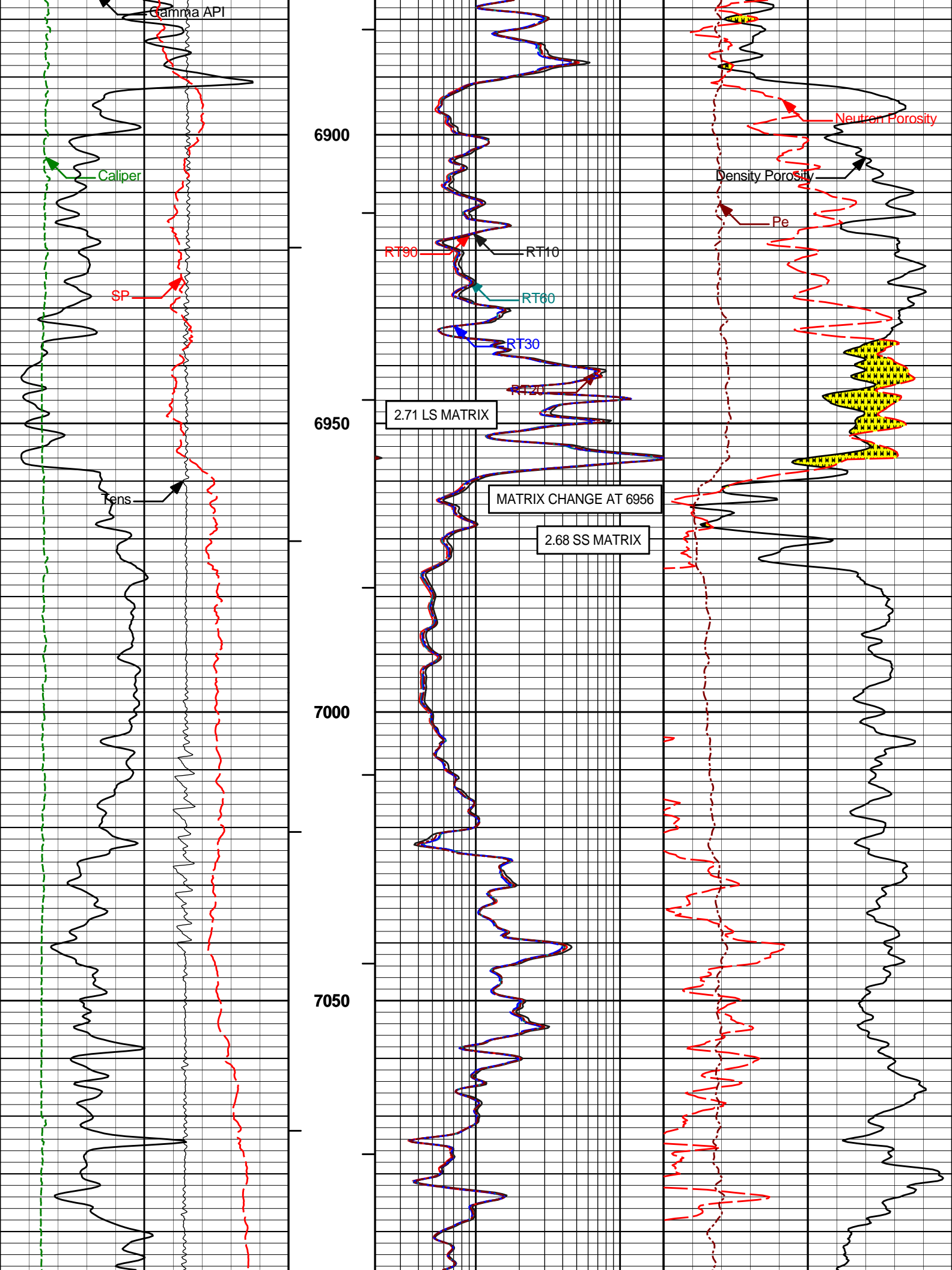


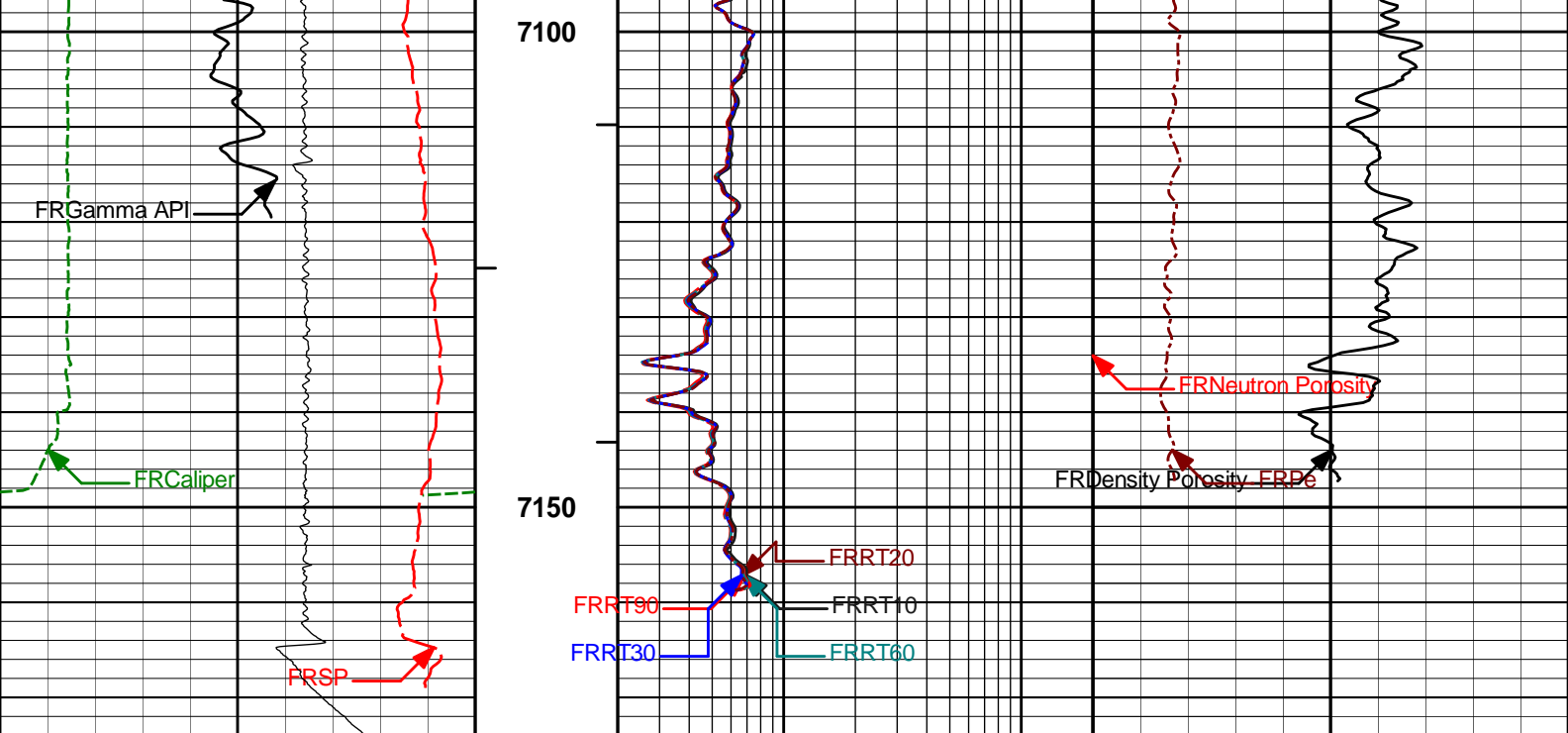












0	SP	100	1 : 240	2	RT90	200	0	Pe	10
	millivolts				ohmm				
0	Gamma API	250	BHVT	2	RT60	200	20	Density Porosity	0
	api				ohmm			percent	
6	Caliper	16	AHVT	2	RT30	200	20	Neutron Porosity	0
	inches				ohmm			percent	
10K	Tens	0		2	RT20	200			
	pounds				ohmm				
				2	RT10	200			
					ohmm				

HALLIBURTON Plot Time: 17-Mar-12 17:42:11
Plot Range: 5948 ft to 7174 ft
Data: LDS_D08-29\Well Based\MAIN*
Plot File: \\COMP\TD-NIO

MAIN PASS 5" = 100'

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CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION			
Tool Name:	GTET - 11294346_RED	Reference Calibration Date:	15-Mar-12 10:56:02
Engineer:	R. TWEETEN	Calibration Date:	17-Mar-12 11:01:45
Software Version:	WL INSITE R3.4.4 (Build 2)	Calibration Version:	1

Calibrator Source S/N: TB-289
Calibrator API Reference:243.00 api
Equivalent Calibrator API Reference:247.3 api

Measurement	Measured	Calibrated	Units
Background	65.0	68.0	api
Background + Calibrator	297.1	311.0	api
Calibrator	246.1	243.0	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	GTET - 11294346_RED	Reference Calibration Date:	17-Mar-12 11:01:45
Engineer:	R. TWEETEN	Calibration Date:	17-Mar-12 11:06:49
Software Version:	WL INSITE R3.4.4 (Build 2)	Calibration Version:	1

Calibrator Source S/N: TB-289
 Calibrator API Reference:243.00 api
 Equivalent Calibrator API Reference:247.3 api

Field Verification	Shop	Field	Units
Background	68.0	69.0	api
Background + Calibrator	311.0	312.5	api
Calibrator	243.0	243.5	api

Shop	Field	Difference	Tolerance
243.0	243.5	-0.5	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name:	DSNT - 11277440_RED	Reference Calibration Date:	21-Feb-12 15:00:47
Engineer:	R. TWEETEN	Calibration Date:	21-Feb-12 15:15:49
Software Version:	WL INSITE R3.4.4 (Build 2)	Calibration Version:	1

Logging Source S/N: DSN434
 Tank Serial Number: 11068236
 Reference value assigned to Tank: 53.720
 Snow Block S/N: BRIGHTON
 Calibration Tank Water Temperature: 68 degF
 Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	1.007	1.006	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):	0.2226	0.2224	0.0002	+/- 0.0020
Calibrated Ratio:	10.12	10.11	0.008	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0807	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_RED	Reference Calibration Date:	21-Feb-12 15:15:49
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Tool Name:	SDLT - M271_P123_RED	Reference Calibration Date:	17-Mar-12 11:11:48
Engineer:	R. TWEETEN	Calibration Date:	17-Mar-12 11:11:48
Software Version:	WL INSITE R3.4.4 (Build 2)	Calibration Version:	1

Logging Source S/N: DSN434
 Snow Block S/N: BRIGHTON

NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0807	0.0817	0.0010	+/- 0.0150

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

DENSITY CALIPER SHOP CALIBRATION			
Tool Name:	SDLT - M271_P123_RED	Reference Calibration Date:	03-Feb-12 13:41:33
Engineer:	R. TWEETEN	Calibration Date:	21-Feb-12 17:06:13
Software Version:	WL INSITE R3.4.4 (Build 2)	Calibration Version:	1

CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-3919.33	-3584.59	-7000.00 - -1000.00
Pad Gain	0.0003774	0.0003780	0.000200 - 0.000600
Arm Offset	-4146.68	-4124.80	-5000.00 - 3000.00
Arm Gain	0.0005359	0.0005179	0.000300 - 0.000700
Arm Power	-0.000003586	-0.000002559	-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)	1.87	2.00	0.13	+/- 0.20
Medium Ring (in)	3.62	3.75	0.13	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.43	6.50	0.07	+/- 0.20
Medium Ring (in)	8.21	8.25	0.04	+/- 0.20
Large Ring (in)	14.97	15.00	0.03	+/- 0.20

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

PASS/FAIL SUMMARY	
Calibration-Coefficients Range Check:	Passed

SDLT CALIPER FIELD CALIBRATION			
Tool Name:	SDLT - M271_P123_RED	Reference Calibration Date:	21-Feb-12 17:06:13
Engineer:	R. TWEETEN	Calibration Date:	17-Mar-12 11:01:31
Software Version:	WL INSITE R3.4.4 (Build 2)	Calibration Version:	1

MEASURED CALIPER VALUES				
Measurement	Shop	Field	Change	Control Limit On New Value

Pad Extension	3.75	3.71	-0.04	+/- 0.10
Ring Diameter	8.25	8.13	-0.12	+/- 0.15

PASS/FAIL SUMMARY

Pad Extension Check:	Passed
Diameter Check:	Passed

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name:	ACRt Sonde - E2817-S4353_RED	Reference Calibration Date:	24-Jan-12 12:50:02
Engineer:	P. DIMPFL	Calibration Date:	24-Jan-12 13:01:08
Software Version:	WL INSITE R3.4.4 (Build 2)	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	1.0079	1.05	0.95	1.0088	1.05	0.95	1.0051	1.05
A2 (50")	0.95	1.0134	1.05	0.95	1.0162	1.05	0.95	1.0152	1.05
A3 (29")	0.95	1.0073	1.05	0.95	1.0096	1.05	0.95	1.0068	1.05
A4 (17")	0.95	1.0110	1.05	0.95	1.0108	1.05	0.95	1.0108	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.0090	1.05	0.95	1.0070	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9969	1.05	0.95	0.9952	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	-0.598	2	-6	-4.362	-2	-8	-4.801	-2
A2 (50")	-7	-1.706	-1	-6	-2.982	-2	-7	-4.717	-2
A3 (29")	-27	-12.943	-9	-9	-3.481	-3	-7	-3.493	-1
A4 (17")	-180	-91.114	-60	-45	-29.339	-15	-39	-25.011	-13
A5 (10")	N/A	N/A	N/A	-150	-92.347	-50	-80	-44.780	-10
A6 (6")	N/A	N/A	N/A	175	335.018	525	90	167.676	270

TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper
12K	0.6	0.8693	1.3
36K	1.0	1.8356	2.0
72K	1.0	1.1121	2.0

R-MUD VERIFICATION

Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
Mud Cell	0.95	0.997	1.05

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name:	SDLT Pad - M271_P123_RED	Reference Calibration Date:	21-Feb-12 16:22:25
Engineer:	R. TWEETEN	Calibration Date:	21-Feb-12 16:42:46
Software Version:	WL INSITE R3.4.4 (Build 2)	Calibration Version:	1

Logging Source S/N: 2770GW

Aluminum Block S/N: 63066	Density: 2.602g/cc	Pe: 3.100
Magnesium Block S/N: 12345	Density: 1.690g/cc	Pe: 2.650

DENSITY CALIBRATION SUMMARY

Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0030	1.0277	0.90 - 1.10
Near Dens Gain	0.9952	1.0102	0.90 - 1.10
Near Peak Gain	0.9769	0.9933	0.90 - 1.10
Near Lith Gain	0.9404	0.9775	0.90 - 1.10

Far Bar Gain	1.0072	1.0064	0.90 - 1.10
Far Dens Gain	0.9931	0.9967	0.90 - 1.10
Far Peak Gain	0.9849	0.9861	0.90 - 1.10
Far Lith Gain	0.9549	0.9580	0.90 - 1.10
Near Bar Offset	0.2735	0.0480	NONE
Near Dens Offset	0.3272	0.1941	NONE
Near Peak Offset	0.5056	0.3670	NONE
Near Lith Offset	0.7977	0.4912	NONE
Far Bar Offset	0.1208	0.1256	NONE
Far Dens Offset	0.2276	0.1933	NONE
Far Peak Offset	0.2647	0.2548	NONE
Far Lith Offset	0.4496	0.4249	NONE
Near Bar Background	831.67	831.43	700 - 1450
Near Dens Background	273.89	274.91	230 - 480
Near Peak Background	116.65	117.38	100 - 210
Near Lith Background	146.41	147.02	125 - 260
Far Bar Background	528.15	528.14	450 - 900
Far Dens Background	205.45	204.09	175 - 345
Far Peak Background	79.55	80.11	70 - 140
Far Lith Background	83.73	84.02	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.690	1.690	0.000	+/- 0.015
Pe	2.600	2.600	0.000	+/- 0.150
ALUMINUM				
Density (g/cc)	2.604	2.602	-0.002	+/- 0.01500
Pe	3.041	3.059	0.018	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0006	+/- 0.0110	0.0016	+/- 0.0140
Magnesium Block	-0.0005	+/- 0.0110	-0.0004	+/- 0.0140
Aluminum Block	-0.0003	+/- 0.0110	-0.0007	+/- 0.0140
Resolution	9.48	6.00 - 11.50	9.70	6.00 - 11.50
Internal Verifier(B+D+P+L)	1371	1200 - 2700	896	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 Pad - M271_P123_RED

Reference Calibration Date: 21-Feb-12 16:42:46

Engineer: R. TWEETEN

Calibration Date: 17-Mar-12 10:56:04

Software Version: WL INSITE R3.4.4 (Build 2)

Calibration Version: 1

Pad Temperature: 61.1 degF

DENSITY FIELD CALIBRATION SUMMARY

Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1370.743	1366.895	-3.848	14.962
Far (B+D+P+L) cps	896.354	896.923	0.569	16.291
Near Resolution	9.48	9.55	0.070	0.50
Far Resolution	9.70	9.87	0.170	1.00

PASS/FAIL SUMMARY

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

CALIBRATION SUMMARY


Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11294346_RED						
Gamma Ray Calibrator	243.0	243.5	-----	-0.5	+/- 9.00	api
DSNT-11277440_RED						
Snow-Block Porosity	0.0807	0.0817	-----	-0.0010	+/- 0.0150	decp
SDLT-M271_P123_RED						
Pad Extension	3.75	3.71	-----	0.04	+/-0.10	in
Ring Diameter	8.25	8.13	-----	0.120	+/-0.15	in
ACRt Sonde-E2817-S4353_RED						
Mud Cell	0.997	-----	-----	0.000	-----	ohm-m
SDLT Pad-M271_P123_RED						
Near(B+D+P+L)	1370.743	1366.895	-----	3.848	+/-14.962	cps
Far(B+D+P+L)	896.354	896.923	-----	-0.569	+/-16.291	cps

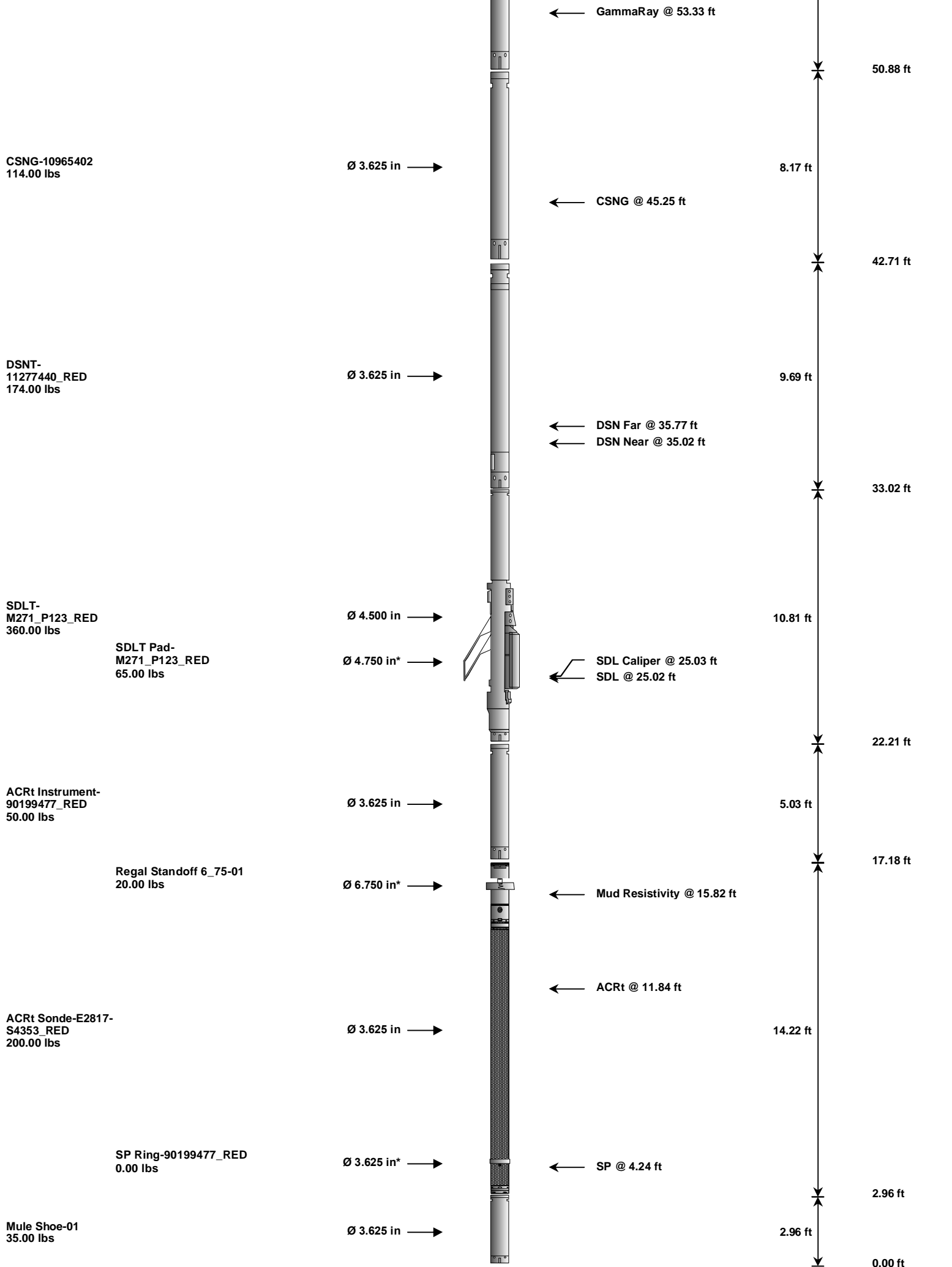
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Date: 17-Mar-12 15:38:01

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
RWCH-B097 135.00 lbs		Ø 3.625 in →		← Load Cell @ 61.96 ft ← BH Temperature @ 61.40 ft	6.25 ft	65.65 ft
						59.40 ft
GTET-11294346_RED 165.00 lbs		Ø 3.625 in →			8.52 ft	



Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head	B097	135.00	6.25	59.40	300.00
GTET	Gamma Telemetry Tool	11294346_RED	165.00	8.52	50.88	60.00
CSNG	Compensated Spectral Natural Gamma	10965402	114.00	8.17	42.71	15.00
DSNT	Dual Spaced Neutron	11277440_RED	174.00	9.69	33.02	60.00
SDLT	Spectral Density Tool	M271_P123_RED	360.00	10.81	22.21	60.00
SDLP	Density Insite Pad	M271_P123_RED	65.00	2.55	*	24.42
ACRt	Array Compensated True Resistivity Instrument Section	90199477_RED	50.00	5.03	17.18	300.00
ACRt	Array Compensated True Resistivity	E2817-S4353_RED	200.00	14.22	2.96	300.00
SP	SP Ring	90199477_RED	0.00	0.25	*	4.24
RSOF	Regal Standoff 6.75in	01	20.00	0.52	*	15.94
MS	MS	01	35.00	2.96	0.00	300.00
Total			1,318.00	65.65		
* Not included in Total Length and Length Accumulation.						
Data: LDS_D08-29\0001 NOBLE\IDLE						
Date: 17-Mar-12 15:28:47						

COMPANY	NOBLE ENERGY INC		
WELL	LDS D08-29		
FIELD	WATTENBERG		
COUNTY	WELD	STATE	CO
HALLIBURTON		ARRAY COMPENSATED TRUE RESISTIVITY SPECTRAL DENSITY DUAL SPACED NEUTRON	