

COMPANY		KINDER MORGAN CO2 CO LP	
WELL		CD 4	
FIELD/BLOCK		MCELMO	
COUNTY		MONTEZUMA	
STATE		CO	
Permanent Datum		GL	
Log measured from		KB	
Drilling measured from		KB	
Date		02-Dec-14	
Run No.		ONE	
Depth - Driller		8725.00 ft	
Depth - Logger		8710.0 ft	
Bottom - Logged Interval		8707.0 ft	
Top - Logged Interval		8300.0 ft	
Casing - Driller		7.000 in @ 8315.0 ft	
Casing - Logger		8315.0 ft	
Bit Size		6.000 in @	
Type Fluid in Hole		Salt Water	
Density		8.9 ppg	
Viscosity		32.00 s/qt	
PH		9.10 pH	
Fluid Loss		380.0 cpm	
Source of Sample		MUD TANK	
Rm @ Meas. Temperature		0.11 ohmm @ 66.80 degF	
Rmf @ Meas. Temperature		0.10 ohmm @ 61.70 degF	
Rmc @ Meas. Temperature		0.200 ohmm @ 61.50 degF	
Source Rmf		MEASURED	
Rmc		MEASURED	
Rm @ BHT		0.04 ohmm @ 180.0 degF	
Time Since Circulation		13.5 hr	
Time on Bottom		03-Dec-14 20:30	
Max. Rec. Temperature		180.0 degF @ 8580.0 ft	
Equipment		11871076	
Location		GJ CO	
Recorded By		B. RIDDEL	
Witnessed By		J. DAVIS	
Sect. 18		Twp. 38N	
Rge. 18W		Elev. 6795.0 ft	
Other Services:		RWCH	
Location		SURFACE HOLE LOCATION:	
1580' FSL & 2356' FEL		CSNG	
BOTTOM HOLE LOCATION:		WSTT	
2286' FNL & 2144' FWL		XRMI	
LATITUDE: 37.548680		MSFL	
LONGITUDE: -108.873080		DLLT	
Elev. 6795.0 ft		Elev.: K.B.	
D.F.		6817.5 ft	
G.L.		6795.0 ft	

Fold here

Service Ticket No.: 901883664				API Serial No.: 05083067180000				PGM Version: WL INSITE R4.2.0 (Build 2)							
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		DLLT		N/A		CENT		N/A	
Rmc @ Meas. Temp.		@		@				10731630							
Source Rmf		Rmc				ONE		MSFL		SLIM PEAK		CENT		N/A	
Rm @ BHT		@		@				11555340							
Rmf @ BHT		@		@											
Rmc @ BHT		@		@											
EQUIPMENT DATA															
GAMMA				ACOUSTIC				DENSITY				NEUTRON			
Run No.		ONE		Run No.				Run No.		ONE		Run No.		ONE	
Serial No.		11958949		Serial No.				Serial No.		10865876		Serial No.		10993888	
Model No.		GTET		Model No.				Model No.		SDLT-I		Model No.		DSNT-I	
Diameter		3.625"		No. of Cent.				Diameter		4.5"		Diameter		3.625"	
Detector Model No.		GTET		Spacing				Log Type		GAMMA-GAMMA		Log Type		NEU-THERM	
Type		SCINT						Source Type		Cs137		Source Type		Am241Be	
Length		8"		LSA [Y/N]				Serial No.		5153GW		Serial No.		DSN-388	
Distance to Source		17'		FWDA [Y/N]				Strength		1.5 Ci		Strength		15 Ci	
LOGGING DATA															

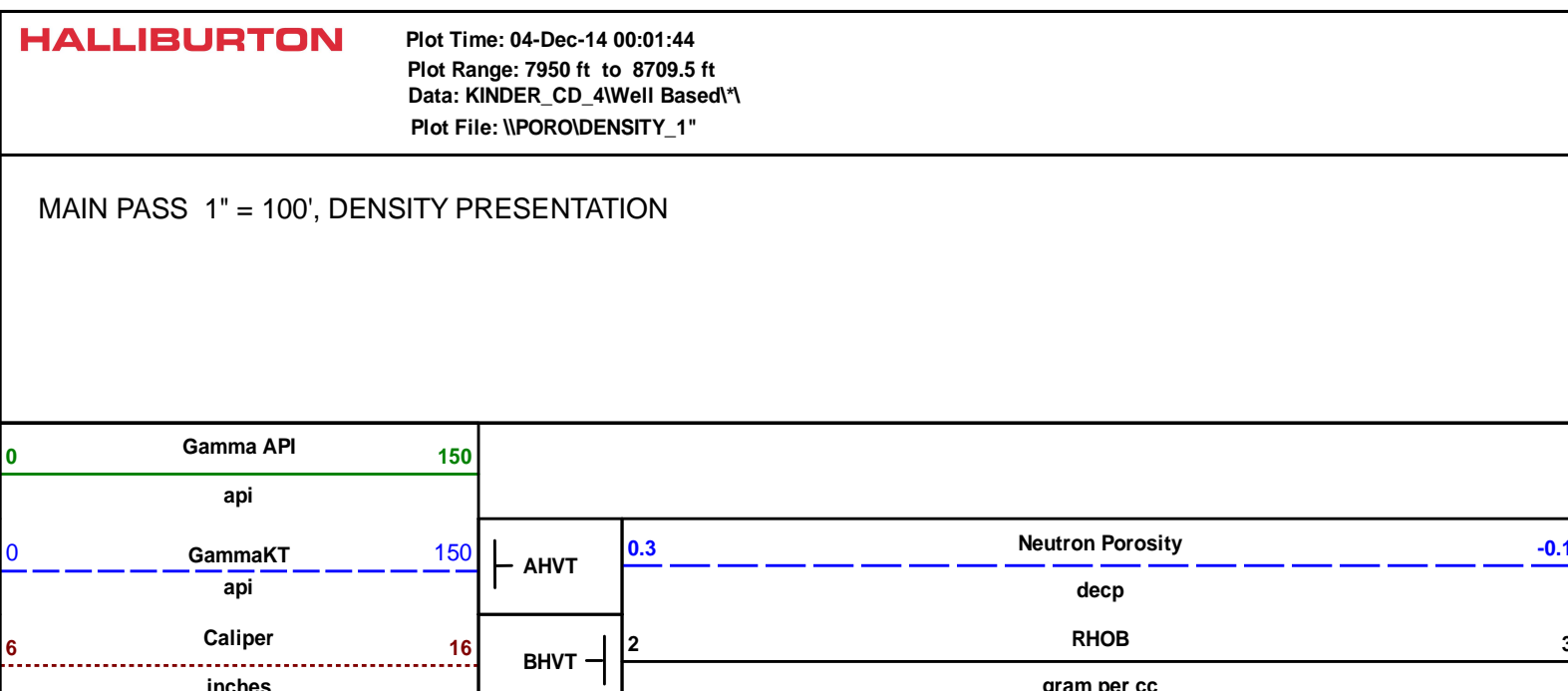
GENERAL				GAMMA		ACOUSTIC			DENSITY			NEUTRON		
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
No.	From	To	ft/min	L	R	L	R		L	R		L	R	
ONE	8710	8315	REC	0 API	150 API				30 %	-10 %	2.71 g/cc	30 %	-10 %	LIME
ONE	8315	8300	REC	0 API	150 API									
DIRECTIONAL INFORMATION														
Maximum Deviation @								KOP @						
Remarks: RUN ONE: CONNECTOR_SUB/FLEX/DTDD/HDDS/BRIDLE/CR/SP/BRIDLE/BS/GTET/CSNG/FLEX/DLLT/MSFL/BN RAN IN COMBINATION														
RUN TWO: CONNECTOR_SUB/FLEX/DTDD/HDDS/GTET/DSNT/SDLT/BN RAN IN COMBINATION														
BOREHOLE RUGOSITY, BITSIZE, TENSION PULLS AND WASHOUTS MAY EFFECT LOG QUALITY AND REPEATABILITY														
CHLORIDES REPORTED TO BE 54,000 ppm														
ANNULAR HOLE VOLUME CALCULATED USING 4.5-INCH CASING														
NO JEWELRY RAN PER CUSTOMER REQUEST DUE TO BOREHOLE SIZE.														
RUN ONE BRIDGED OUT AT 8580'. LOGGED OUT FROM THERE														
YOU CREW TODAY: B. CALWELL, T. RAFF,								RIG: NABORS M40						
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES, GRAND JUNCTION, CO (970) 523-3600														
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.														
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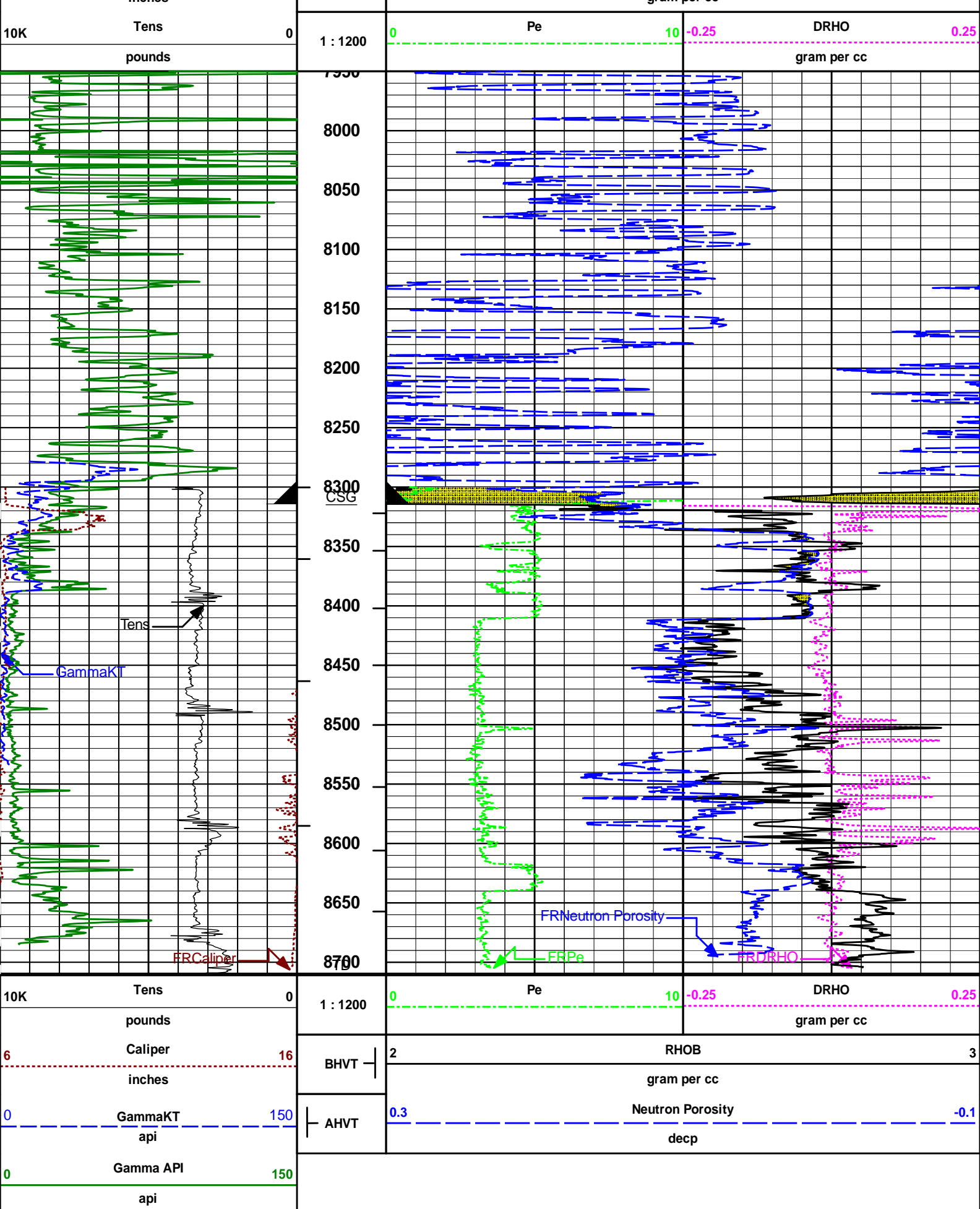
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PARAMETERS REPORT

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	6.000	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	8.900	ppg
	SHARED	WAGT	Weighting Agent	Natural	
	SHARED	BSAL	Borehole salinity	54000.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	0.114	ohmm
	SHARED	TRM	Temperature of Mud	66.8	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	4.500	in
	SHARED	ST	Surface Temperature	30.0	degF
	SHARED	TD	Total Well Depth	8725.00	ft
	SHARED	BHT	Bottom Hole Temperature	180.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	NONE	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
	SHARED	TEMM	Temperature Master Tool	NONE	
	Rwa / CrossPlot	XPOK	Process Crossplot?	Yes	
	Rwa / CrossPlot	FCHO	Select Source of F	Automatic	
	Rwa / CrossPlot	AFAC	Archie A factor	0.6200	

Rwa / CrossPlot	MFAC	Archie M factor	2.1500	
Rwa / CrossPlot	RMFR	Rmf Reference	0.10	ohmm
Rwa / CrossPlot	TMFR	Rmf Ref Temp	75.00	degF
Rwa / CrossPlot	RWA	Resistivity of Formation Water	0.05	ohmm
Rwa / CrossPlot	ADP	Use Air Porosity to calculate CrossplotPhi	No	
Rwa / CrossPlot	BHSM	Borehole Size Source Tool	SDLT	
GTET	GROK	Process Gamma Ray?	Yes	
GTET	GRSO	Gamma Tool Standoff	0.250	in
GTET	GEOK	Process Gamma Ray EVR?	No	
GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
GTET	BHSM	Borehole Size Source Tool	SDLT	
DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Limestone	
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	
DSNT	BHSM	Borehole Size Source Tool	SDLT	
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	2.710	g/cc
SDLT Pad	DFL	Formation Density Fluid	1.000	g/cc
SDLT Pad	BHSM	Borehole Size Source Tool	SDLT	
BOTTOM				
Data: KINDER_CD_4\0002 TPL_DSN SDL\003 03-Dec-14 20:30 Up @8710.3f				Date: 03-Dec-14 21:49:02



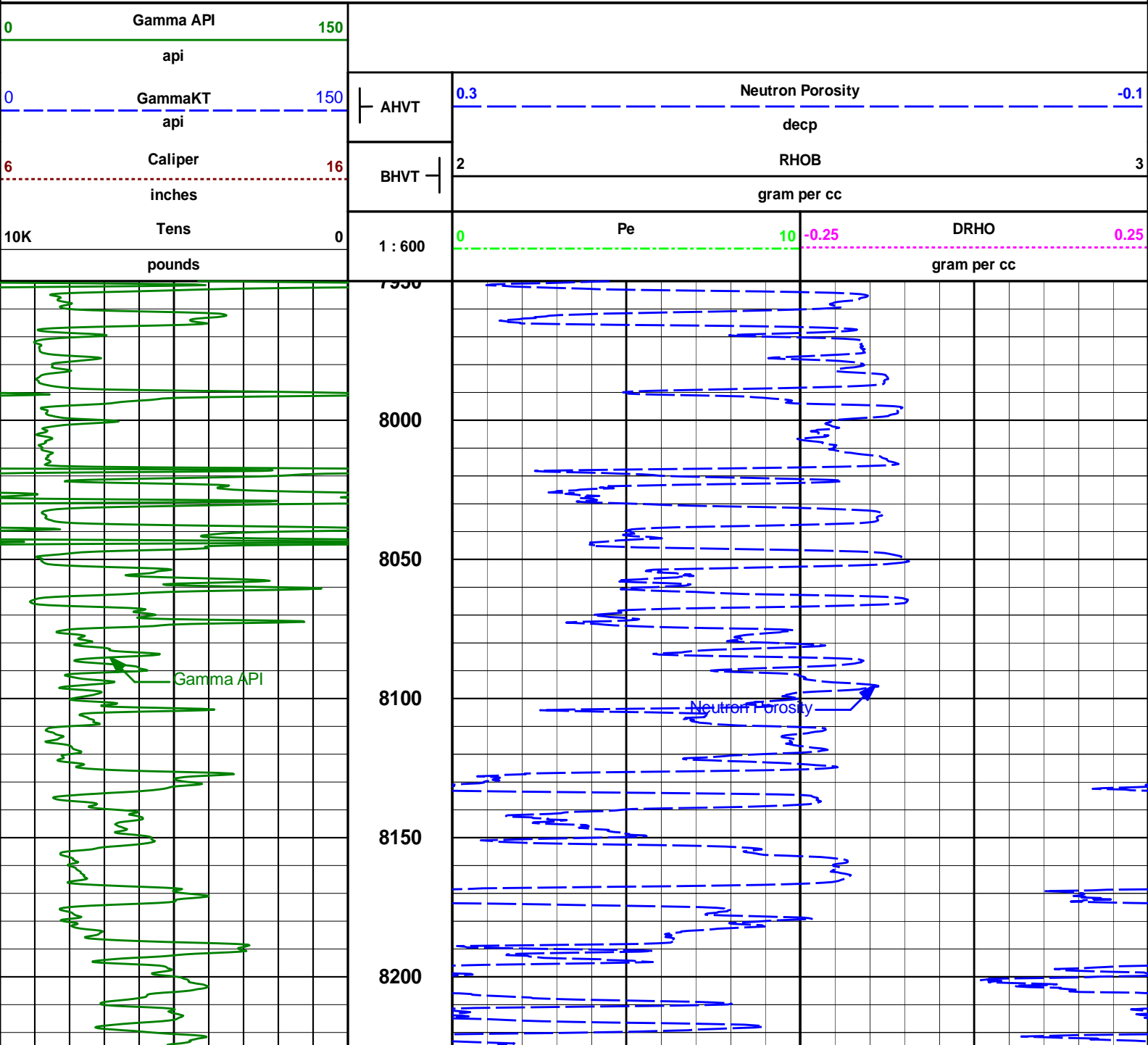


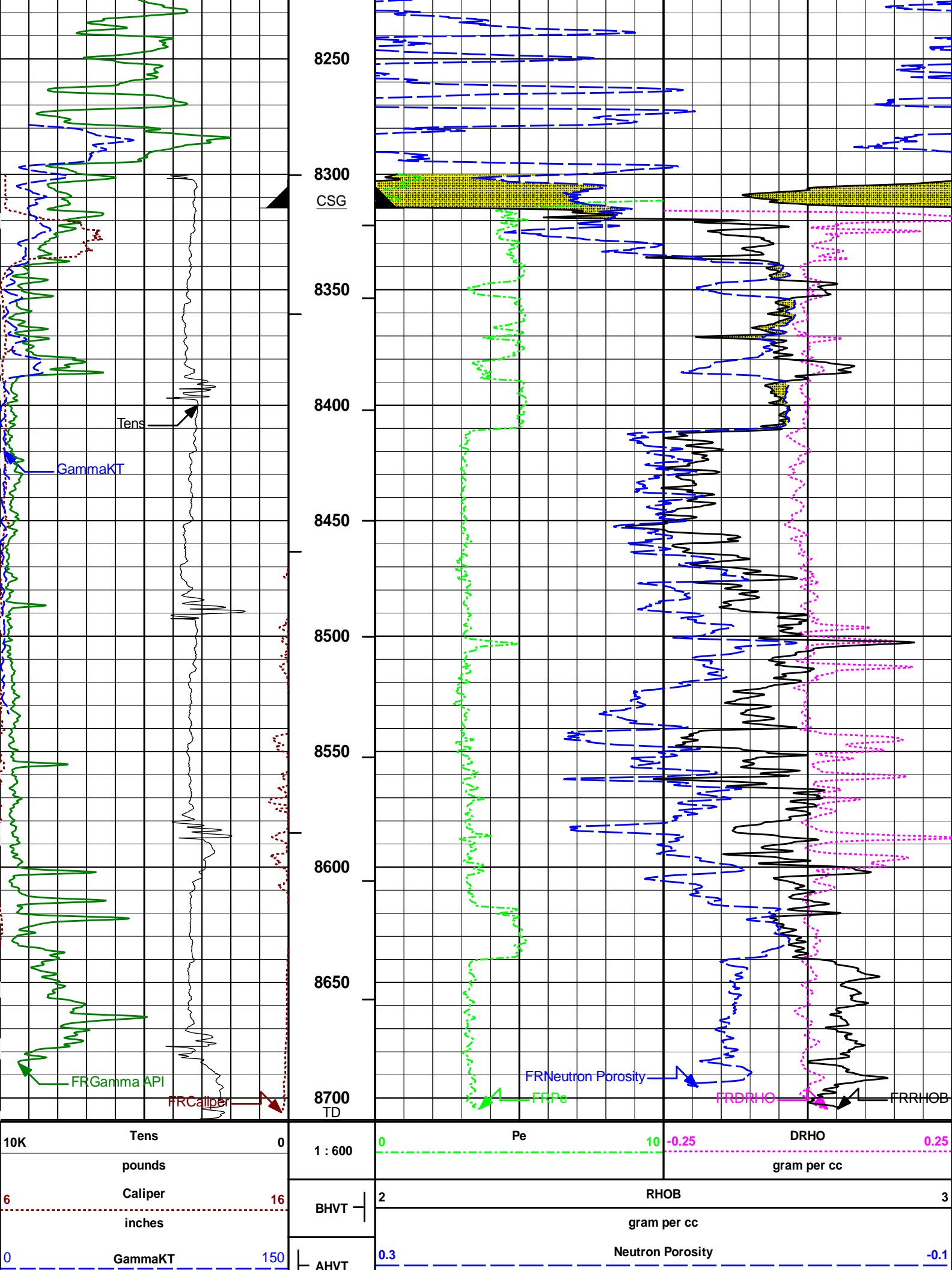
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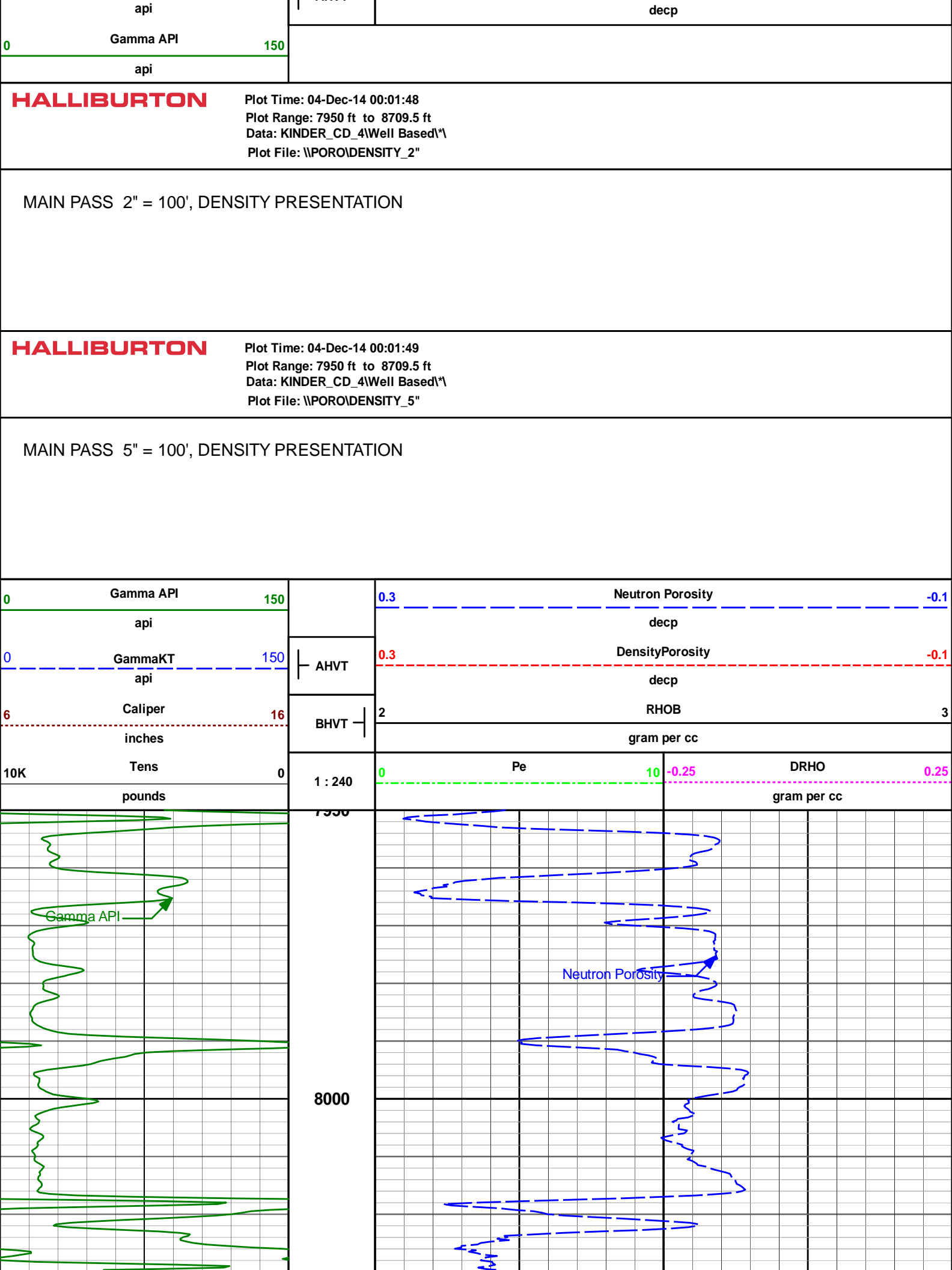
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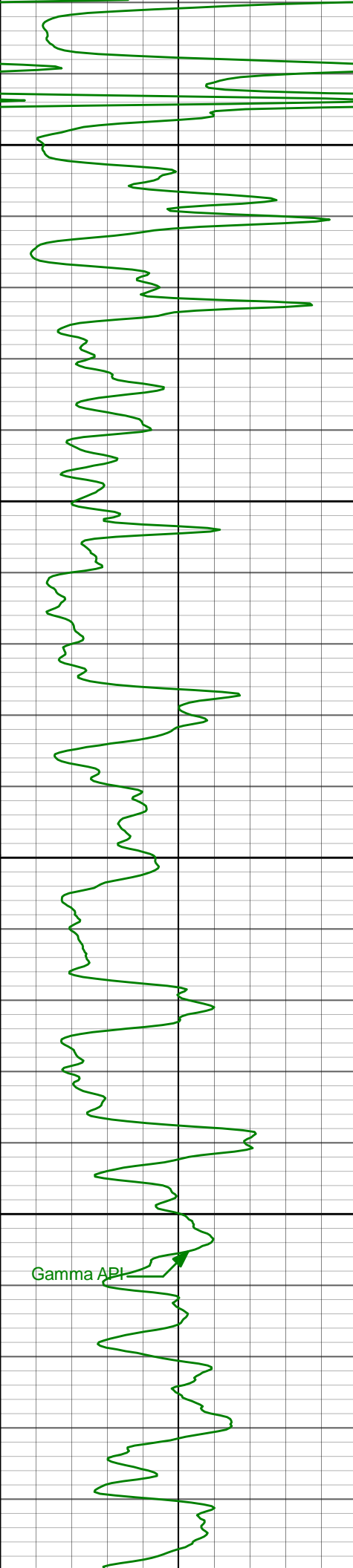


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Data: KINDER_CD_4\Well Based*\n
Plot File: \\PORO\DENENSITY_2"









8050

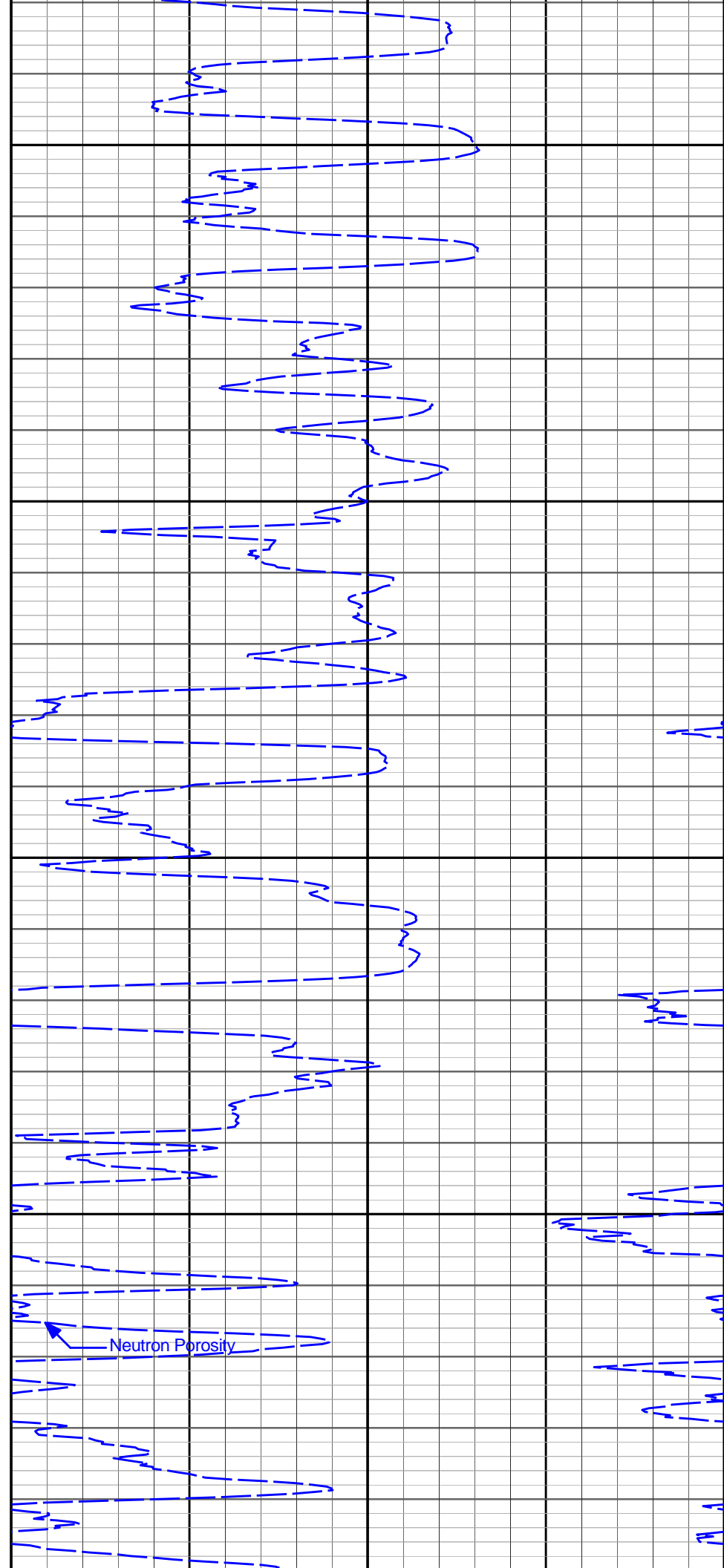
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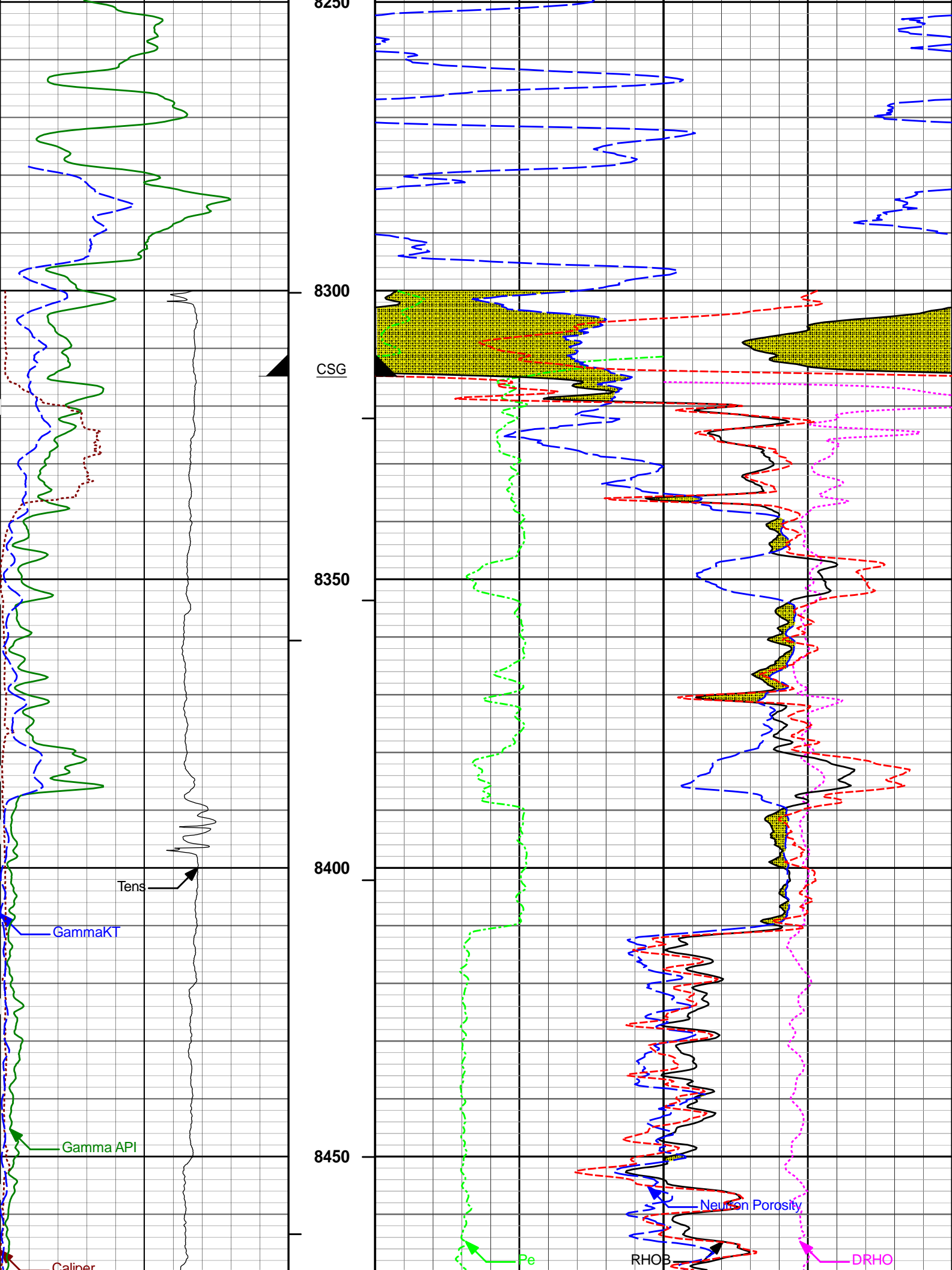
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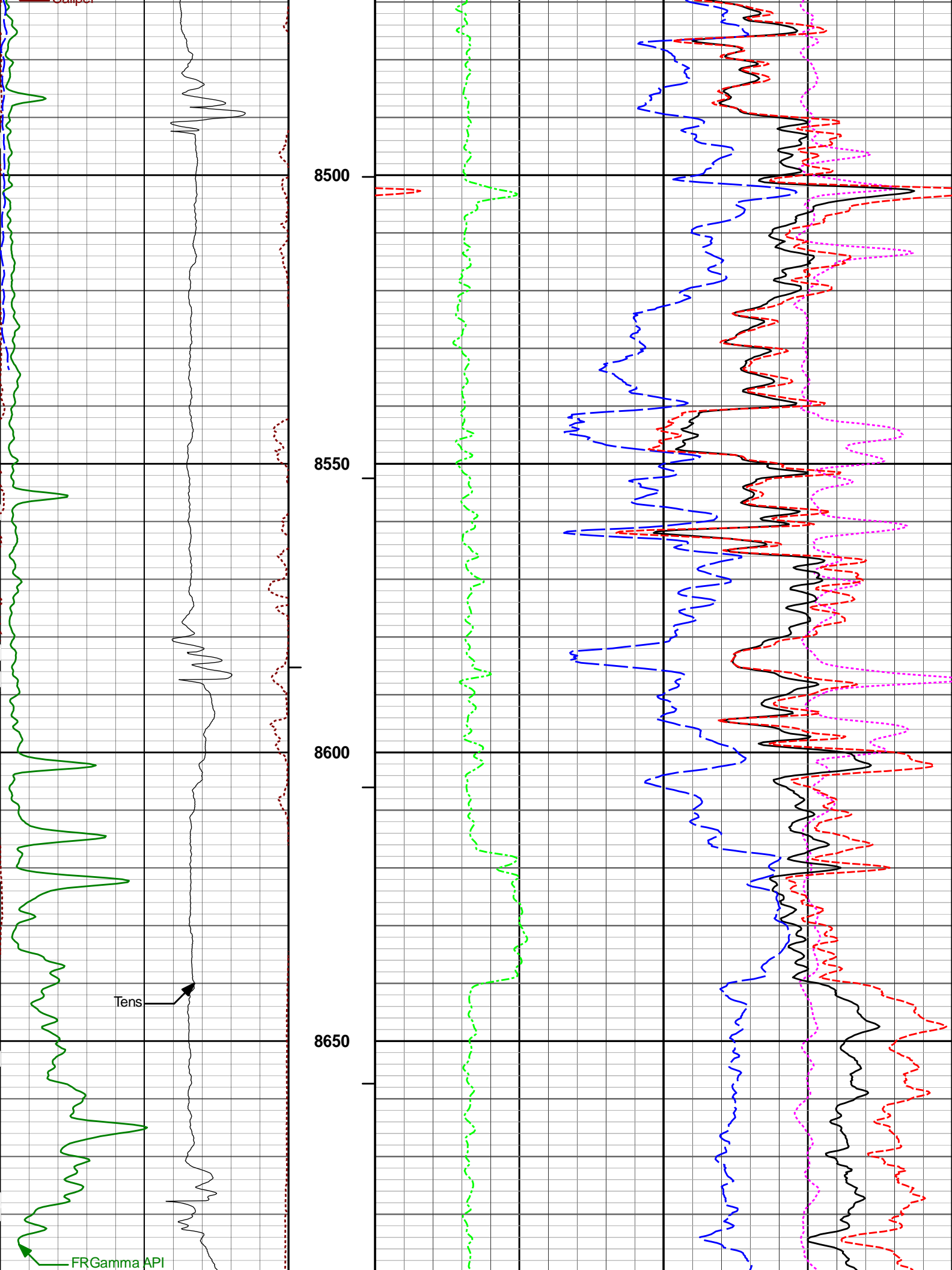
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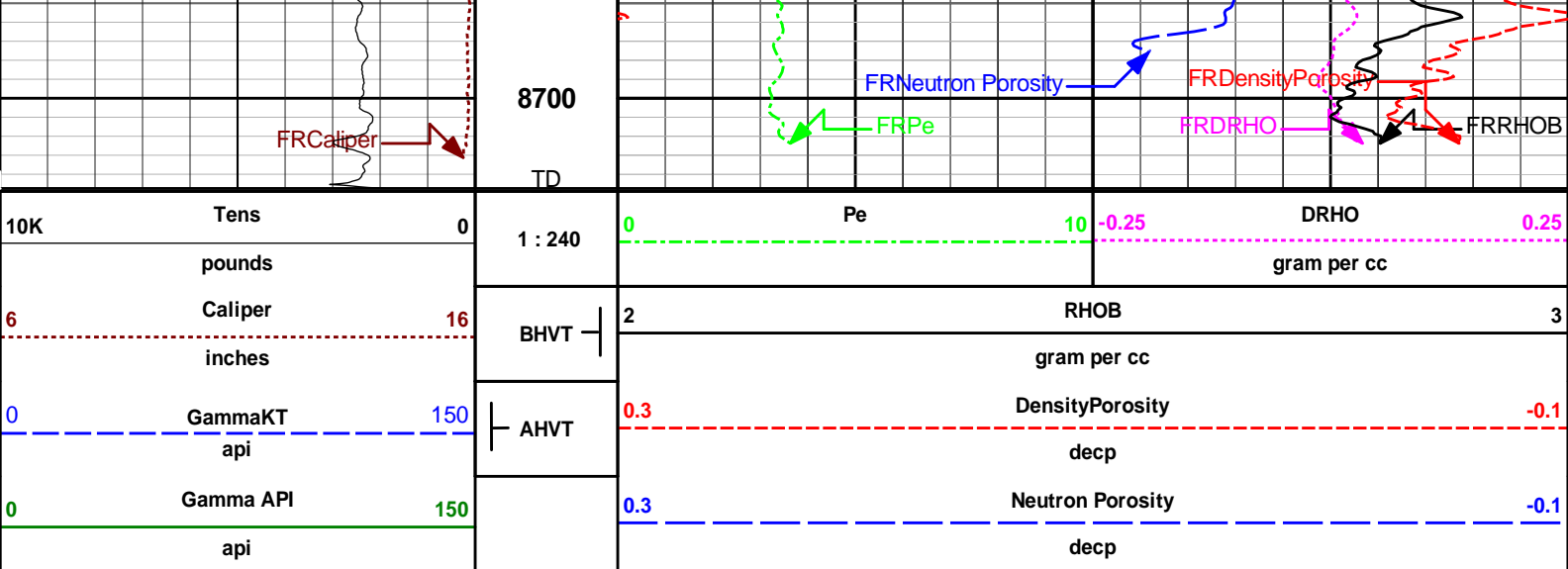
Gamma API



Neutron Porosity







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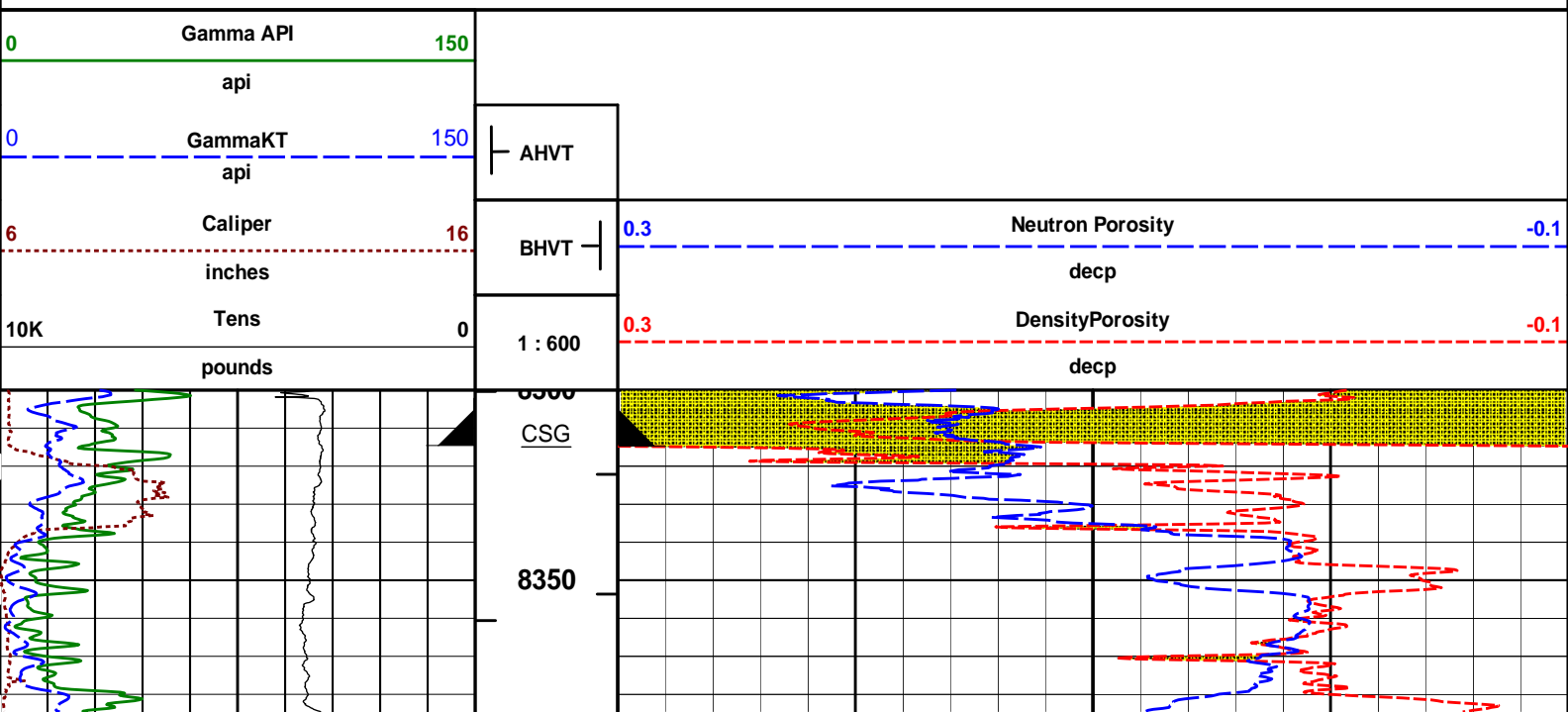
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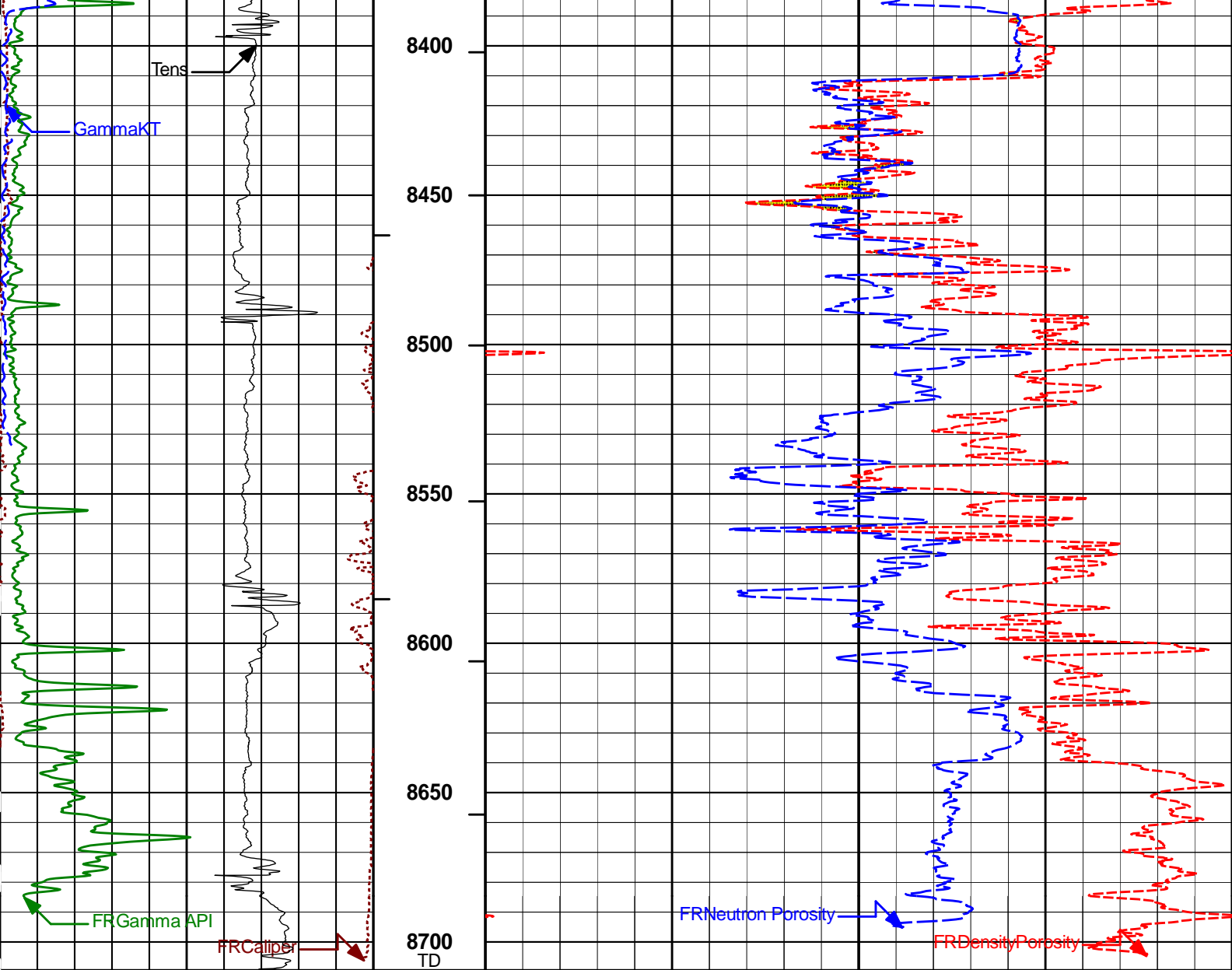
MAIN PASS 5" = 100', DENSITY PRESENTATION

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Plot Time: 04-Dec-14 00:01:51
Plot Range: 8300 ft to 8709.5 ft
Data: KINDER_CD_4\Well Based*\
Plot File: \\PORO\NEU_DEN_2"

MAIN PASS 2" = 100', NEUTRON/DENSITY





10K	Tens	0	1 : 600	0.3	Density Porosity	-0.1
	pounds				decp	
6	Caliper	16	BHVT	0.3	Neutron Porosity	-0.1
	inches				decp	
0	GammaKT	150	AHVT			
	api					
0	Gamma API	150				
	api					

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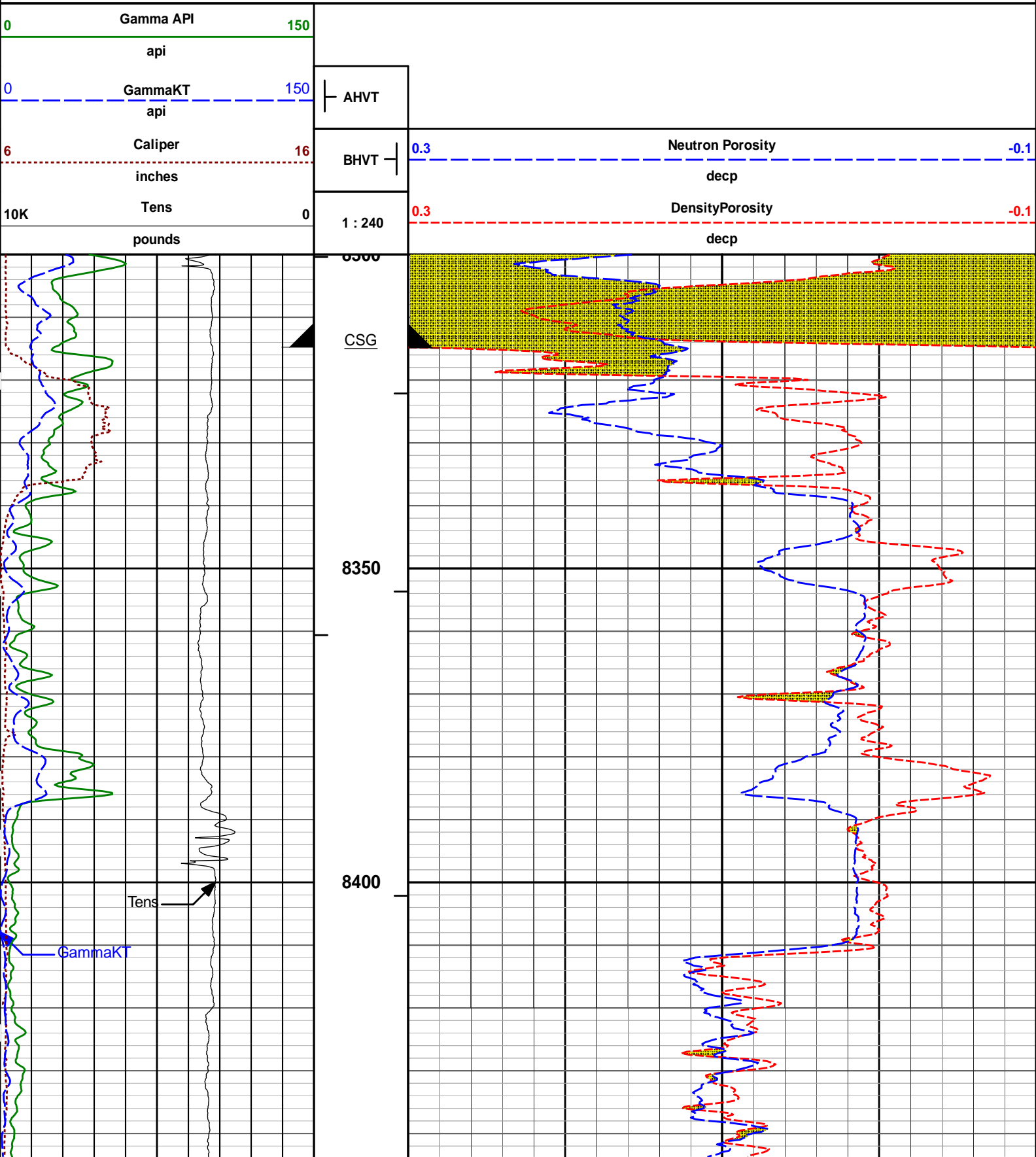
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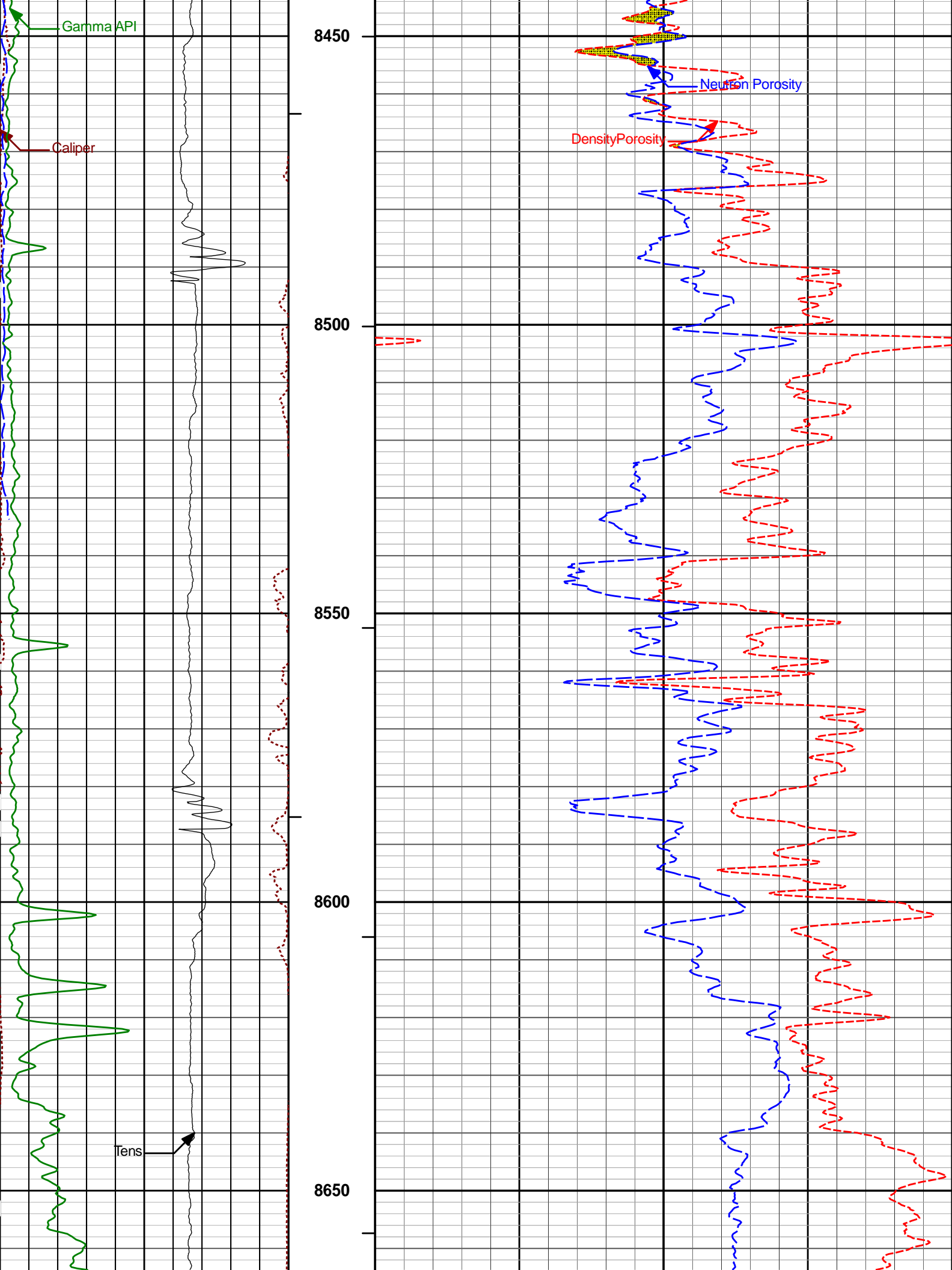
MAIN PASS 2" = 100', NEUTRON/DENSITY

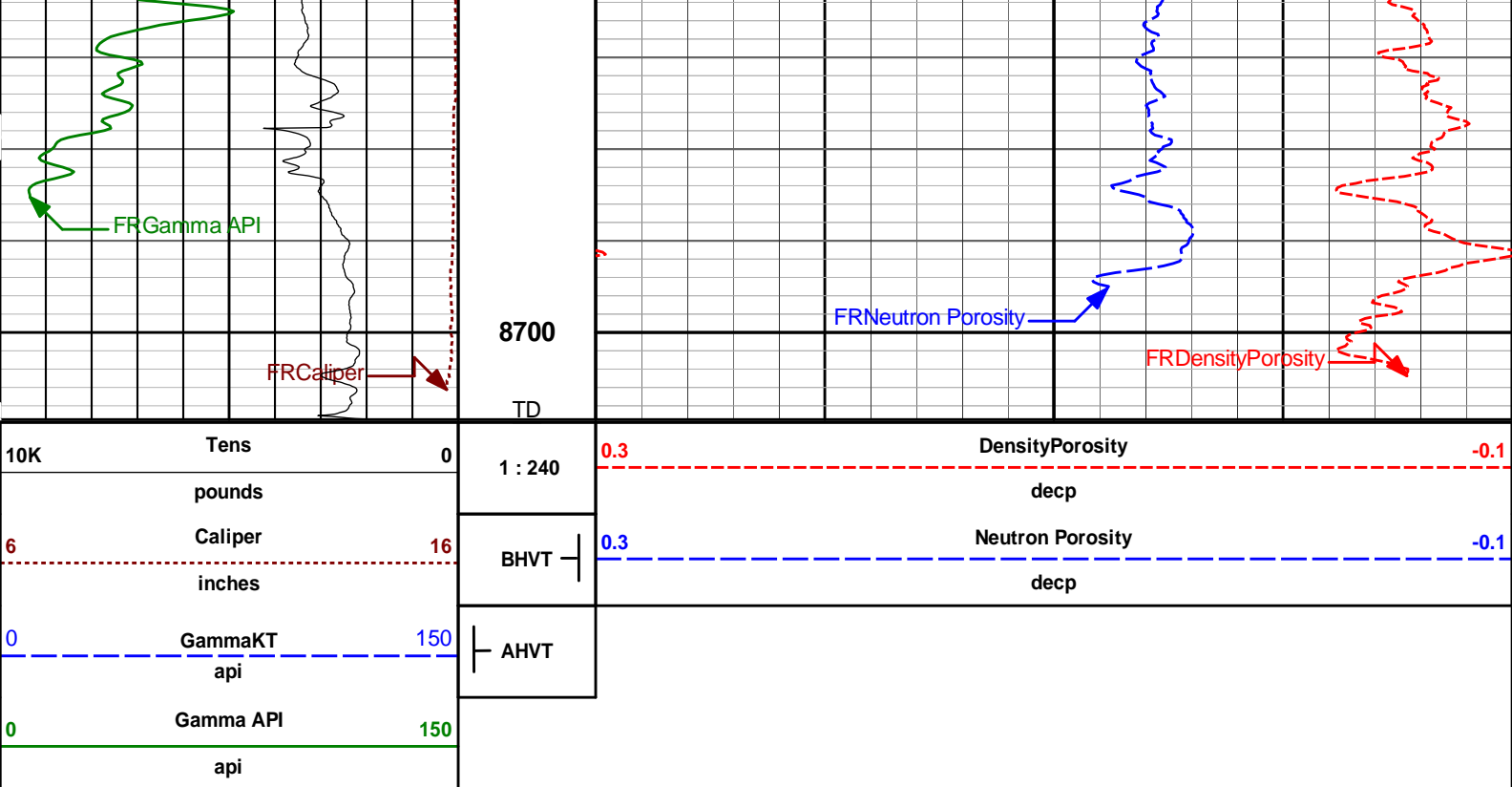
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Plot Time: 04-Dec-14 00:01:53
 Plot Range: 8300 ft to 8709.5 ft

MAIN PASS 5" = 100', NEUTRON/DENSITY







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Plot Time: 04-Dec-14 00:01:54
Plot Range: 8300 ft to 8709.5 ft
Data: KINDER_CD_4\Well Based\
Plot File: \\PORO\NEU_DEN_5"

MAIN PASS 5" = 100', NEUTRON/DENSITY

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CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	GTET - 11958949	Reference Calibration Date:	30-Sep-14 09:24:46
Engineer:	B. RIDDEL	Calibration Date:	01-Dec-14 07:12:41
Software Version:	WL INSITE R4.2.0 (Build 2)	Calibration Version:	1

Calibrator Source S/N: MP051807-04
Calibrator API Reference:239.00 api
Equivalent Calibrator API Reference:243.2 api

Measurement	Measured	Calibrated	Units
Background	27.7	27.7	api
Background + Calibrator	270.8	270.9	api
Calibrator	243.1	243.2	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	GTET - 11958949	Reference Calibration Date:	01-Dec-14 07:12:41
Engineer:	B. RIDDEL	Calibration Date:	02-Dec-14 03:08:42
Software Version:	WL INSITE R4.2.0 (Build 2)	Calibration Version:	1

Calibrator Source S/N: MP051807-04

Calibrator API Reference:239.00 api
Equivalent Calibrator API Reference:243.2 api

Field Verification	Shop	Field	Units
Background	27.7	32.9	api
Background + Calibrator	270.9	276.2	api
Calibrator	243.2	243.3	api

Shop	Field	Difference	Tolerance
243.2	243.3	-0.1	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name:	DSNT - 10993888	Reference Calibration Date:	13-Oct-14 08:47:48
Engineer:	P. DIMPFL	Calibration Date:	07-Nov-14 11:31:08
Software Version:	WL INSITE R4.2.0 (Build 2)	Calibration Version:	1

Logging Source S/N: DSN-388
Tank Serial Number: GJ WATER TANK
Reference value assigned to Tank: 52.750
Snow Block S/N: GJ SNOW BLOCK
Calibration Tank Water Temperature: 64 degF
Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.991	0.991	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):	0.2168	0.2169	0.0002	+/- 0.0020
Calibrated Ratio:	9.92	9.93	0.006	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0662	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 - 10993888	Reference Calibration Date:	07-Nov-14 11:31:08
Engineer:	B. RIDDEL	Calibration Date:	03-Dec-14 11:43:38
Software Version:	WL INSITE R4.2.0 (Build 2)	Calibration Version:	1

Logging Source S/N: DSN-388
Snow Block S/N: GJ SNOW BLOCK

NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decg):	0.0662	0.0721	0.0060	+/- 0.0150

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

DENSITY CALIPER SHOP CALIBRATION			
Tool Name:	SDLT - 10951300	Reference Calibration Date:	13-Oct-14 11:27:39
Engineer:	B. RIDDEL	Calibration Date:	12-Nov-14 19:23:48
Software Version:	WL INSITE R4.2.0 (Build 2)	Calibration Version:	1
Host Tool Name:	DSNT - 10993888		

CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-2108.32	-1513.62	-7000.00 - -1000.00
Pad Gain	0.0003701	0.0003479	0.000200 - 0.000600
Arm Offset	-3945.82	-4316.89	-5000.00 - 3000.00
Arm Gain	0.0005042	0.0005035	0.000300 - 0.000700
Arm Power	-0.000001015	-0.000001436	-0.000010000 - 0.000010000

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)	1.91	2.00	0.09	+/- 0.20
Medium Ring (in)	3.77	3.75	-0.02	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.49	6.50	0.01	+/- 0.20
Medium Ring (in)	8.24	8.25	0.01	+/- 0.20
Large Ring (in)	15.09	15.00	-0.09	+/- 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 - 10951300	Reference Calibration Date:	12-Nov-14 19:23:48
Engineer:	B. RIDDEL	Calibration Date:	03-Dec-14 11:40:00
Software Version:	WL INSITE R4.2.0 (Build 2)	Calibration Version:	1

MEASURED CALIPER VALUES				
Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.75	0.00	+/- 0.10
Ring Diameter	8.25	8.31	0.06	+/- 0.15

PASS/FAIL SUMMARY		
Pad Extension Check:		Passed
Diameter Check:		Passed

SPECTRAL DENSITY SHOP CALIBRATION			
Tool Name:	SDLT Pad - 10865876	Reference Calibration Date:	13-Oct-14 10:30:22

Logging Source S/N: 5153GW

Aluminum Block S/N: 63094

Magnesium Block S/N: 63387

Density: 2.608g/cc

Density: 1.681g/cc

Pe: 3.230

Pe: 2.600

Density Calibration Summary			
Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0253	1.0358	0.90 - 1.10
Near Dens Gain	1.0074	1.0139	0.90 - 1.10
Near Peak Gain	0.9953	1.0011	0.90 - 1.10
Near Lith Gain	0.9707	0.9906	0.90 - 1.10
Far Bar Gain	1.0151	1.0117	0.90 - 1.10
Far Dens Gain	1.0031	1.0022	0.90 - 1.10
Far Peak Gain	0.9961	0.9976	0.90 - 1.10
Far Lith Gain	0.9778	0.9786	0.90 - 1.10
Near Bar Offset	-0.0290	-0.1336	NONE
Near Dens Offset	0.1355	0.0637	NONE
Near Peak Offset	0.2295	0.1592	NONE
Near Lith Offset	0.4194	0.2304	NONE
Far Bar Offset	-0.0072	0.0266	NONE
Far Dens Offset	0.0829	0.0920	NONE
Far Peak Offset	0.1305	0.1164	NONE
Far Lith Offset	0.2505	0.2428	NONE
Near Bar Background	861.96	860.45	700 - 1450
Near Dens Background	288.35	288.93	230 - 480
Near Peak Background	128.16	126.60	100 - 210
Near Lith Background	156.39	155.43	125 - 260
Far Bar Background	529.55	528.69	450 - 900
Far Dens Background	206.96	206.75	175 - 345
Far Peak Background	81.94	81.30	70 - 140
Far Lith Background	85.75	85.45	75 - 145

Calibration Block Summary				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.694	1.681	-0.013	+/- 0.015
Pe	2.447	2.555	0.108	+/- 0.150
ALUMINUM				
Density (g/cc)	2.620	2.608	-0.012	+/- 0.01500
Pe	3.071	3.175	0.104	+/- 0.150

Tool Summary				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0018	+/- 0.0110	-0.0006	+/- 0.0140
Magnesium Block	-0.0007	+/- 0.0110	-0.0027	+/- 0.0140
Aluminum Block	-0.0013	+/- 0.0110	0.0004	+/- 0.0140

Resolution	9.01	6.00 - 11.50	9.54	6.00 - 11.50
Internal Verifier(B+D+P+L)	1431	1200 - 2700	902	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 - 10865876	Reference Calibration Date:	08-Nov-14 11:58:03
Engineer:	B. RIDDEL	Calibration Date:	03-Dec-14 11:37:38
Software Version:	WL INSITE R4.2.0 (Build 2)	Calibration Version:	1

Pad Temperature: 47.1 degF

DENSITY FIELD CALIBRATION SUMMARY

Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1431.407	1430.351	-1.056	15.268
Far (B+D+P+L) cps	902.190	903.225	1.035	16.327
Near Resolution	9.01	9.32	0.310	0.50
Far Resolution	9.54	9.78	0.240	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-11958949						
Gamma Ray Calibrator	243.2	243.3	-----	-0.1	+/- 9.00	api
DSNT-10993888						
Snow-Block Porosity	0.0662	0.0721	-----	-0.0059	+/- 0.0150	decg
SDLT-10951300						
Pad Extension	3.75	3.75	-----	0.00	+/-0.10	in
Ring Diameter	8.25	8.31	-----	-0.06	+/-0.15	in
SDLT Pad-10865876						
Near(B+D+P+L)	1431.407	1430.351	-----	1.056	+/-15.268	cps
Far(B+D+P+L)	902.190	903.225	-----	-1.035	+/-16.327	cps

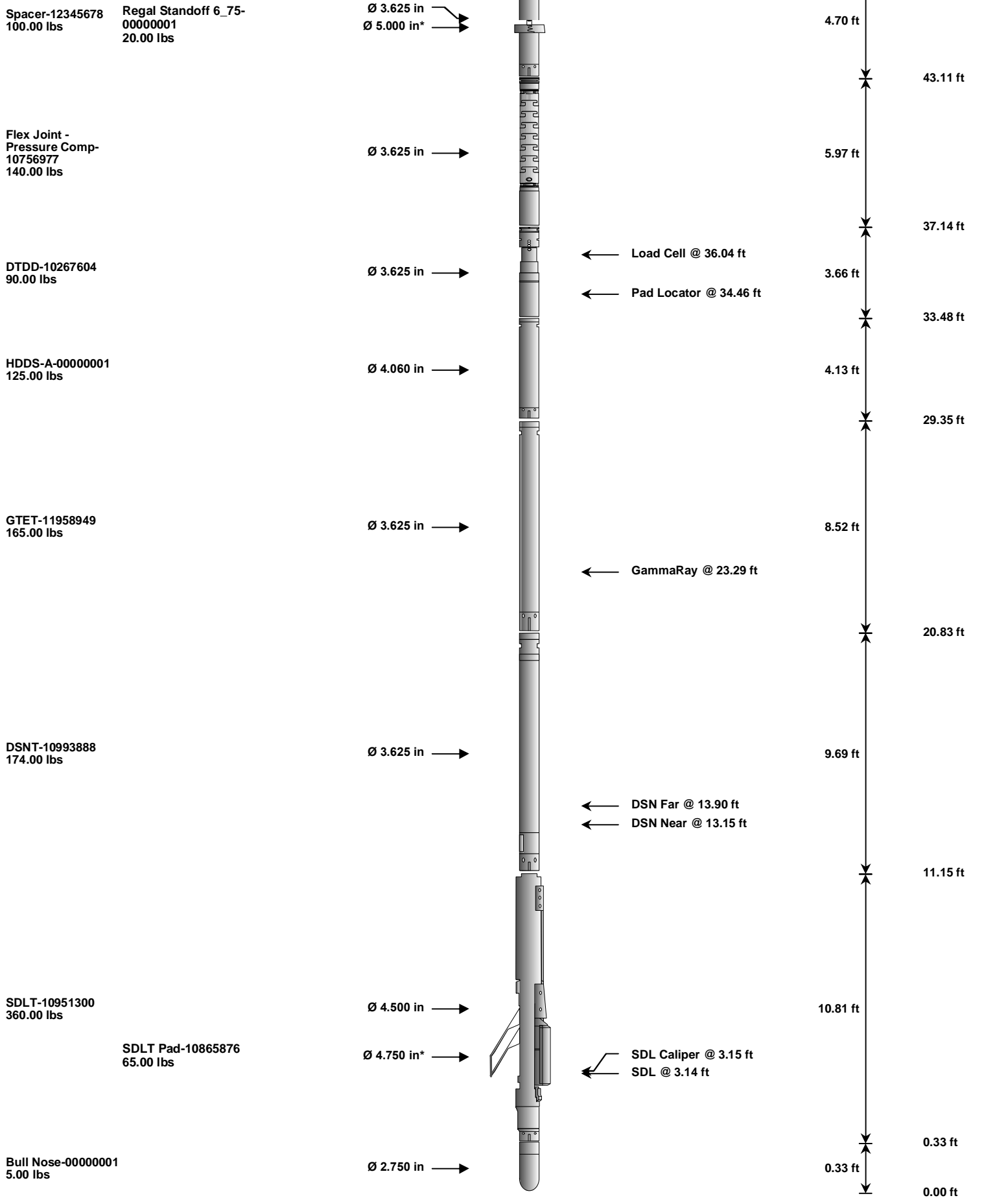
Data: KINDER CD 40002 TPI DSN SDI 003 03-Dec-14 20:30 Un @8710 3f

Date: 03-Dec-14 21:50:06

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
						47.81 ft



Mnemonic		Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
SPC	Test		12345678	100.00	4.70	43.11	100.00
RSOF		Regal Standoff 6.75in	00000001	20.00	0.52	* 44.93	300.00
FLEX		Flex Joint - Pressure Compensated	10756977	140.00	5.97	37.14	300.00
DTDD		Downhole Tension Device	10267604	90.00	3.66	33.48	300.00
HDDS-							

RTDSC A	Heavy Duty DITS Swivel tool.	00000001	125.00	4.13	29.35	300.00
GTET	Gamma Telemetry Tool	11958949	165.00	8.52	20.83	60.00
DSNT	Dual Spaced Neutron	10993888	174.00	9.69	11.15	60.00
SDLT	Spectral Density Tool	10951300	360.00	10.81	0.33	60.00
SDLP	Density Insite Pad	10865876	65.00	2.55 *	2.54	60.00
BLNS	Bull Nose	00000001	5.00	0.33	0.00	300.00
Total			1,244.00	47.81		
* Not included in Total Length and Length Accumulation.						
Data: KINDER_CD_4\0002 TPL_DSN_SDL\003 03-Dec-14 20:30 Up @8710.3f				Date: 03-Dec-14 21:49:25		

COMPANY	KINDER MORGAN CO2 CO LP		
WELL	CD 4		
FIELD	MCELMO		
COUNTY	MONTEZUMA	STATE	CO
HALLIBURTON		DUAL SPACED NEUTRON SPECTRAL DENSITY	