

HALLIBURTON

SPECTRAL DENSITY
DUAL SPACED NEUTRON

CONOCO PHILLIPS COMPANY										CONVERSE FAMILY 6-1H									
WILDCAT										ARAPAHOE									
CO										COUNTY									
COMPANY										CONOCO PHILLIPS COMPANY									
WELL										CONVERSE FAMILY 6-1H									
FIELD/BLOCK										WILDCAT									
COUNTY										ARAPAHOE									
STATE										STATE CO									
API No. 05005072040000										Other Services: RWCH CSNG ACRT WSTT OMRI CAST-1									
Location SURFACE LOCATION: 1980' FSL & 260' FEL NESE LATITUDE: 39.72869° LONGITUDE: -104.472106																			
Sect. 6 Twp. 4S Rge. 63W																			
Permanent Datum GL										Elev. 5604.0 ft									
Log measured from KB										D.F. 5627.0 ft									
Drilling measured from KB										G.L. 5604.0 ft									
Date 29-Apr-13																			
Run No. ONE																			
Depth - Driller 7646.00 ft																			
Depth - Logger 7650.0 ft																			
Bottom - Logged Interval 7627 ft																			
Top - Logged Interval 6000 ft																			
Casing - Driller 9.625 in @ 1810.0 ft										@									
Casing - Logger 1810.0 ft																			
Bit Size 8.750 in										@									
Type Fluid in Hole OIL BASED MUD																			
Density 9.3 ppq										49.00 s/qt									
Alkalinity P. Viscosity										13.0 cP									
HTHP @ Meas. Temperature 4.0 cpm @ 250.00 degF										@									
Solids Wgt. Material 3.9 %										BARITE									
Oil Water Ratio 61										39									
Water Phase Salinity 80000.00 ppm Cl-																			
Oil Type Brine Type DIESEL										CALCIUM CHL									
Electrical Stability 402 V																			
Time Since Circulation 11.5 hr																			
Time on Bottom 30-Apr-13 03:03																			
Max. Rec. Temperature 225.0 degF @ 7650.0 ft										@									
Equipment Location 11072147										BRIGHTON									
Recorded By C. CRADDOCK										J. PINKETT									
Witnessed By																			

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Service Ticket No.: 900393248										API Serial No.: 05005072040000										PGM Version: WL INSITE R3.8.4 (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		F. Viscosity																											
Alkalinity		P. Viscosity																											
HTHP @ Meas. Temp. @										RESISTIVITY EQUIPMENT DATA																			
Solids		Wgt. Mat.								Run No.		Tool Type & No.		Pad Type		Tool Pos.		Other											
Oil		Water Ratio								ONE		ACRT		N/A		1.50" S.O.		N/A											
Water Phase Salinity										11585787																			
Oil Type		Water Type										11585797																	
Electrical Stability																													
EQUIPMENT DATA																													
GAMMA					ACOUSTIC					DENSITY					NEUTRON														
Run No.		ONE			Run No.					Run No.		ONE			Run No.		ONE												
Serial No.		11294346			Serial No.					Serial No.		11816600			Serial No.		11812173												
Model No.		GTET			Model No.					Model No.		SDLT			Model No.		DSNT												
Diameter		3.625"			No. of Cent.					Diameter		4.5"			Diameter		3.625"												
Detector Model No.		GTET			Spacing					Log Type		GAM-GAM			Log Type		NEU-NEU												
Type		SCINT								Source Type		Cs-137			Source Type		Am241Be												
Length		8"			LSA [Y/N]					Serial No.		5256GW			Serial No.		DSN-430												
Distance to Source		17'			FWDA [Y/N]					Strength		1.78 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	TD	6000	REC	0	200				0.45	-0.15	2.71	0.45	-0.15	LIME
ONE	6000	CSG	REC	0	200									
DIRECTIONAL INFORMATION														
Maximum Deviation @								KOP @						
Remarks: RWCH-GTET-DSNT-SDLT-ACRT RUN IN COMBINATION.														
ANNULAR HOLE VOLUME CALCULATED FOR 7-INCH CASING.														
TENSION PULLS, WASHOUTS AND BOREHOLE RUGOSITY AFFECT LOG RESPONSE.														
AVERAGE MAX TEMPERATURE RECORDED FROM THERMOMETER SUB WAS 211.5 °F.														
MAX TEMPERATURE WAS AN AVERAGE OF 4 THERMOMETERS READING 211, 211, 212, 212.														
YOUR CREW: M. BURNETT, J. BYRGE RIG: H&P 280														
THNAK YOU FOR USING HALLIBURTON LOGGING SERVICES - BRIGHTON, CO - (303) 825-4346														
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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PARAMETERS REPORT

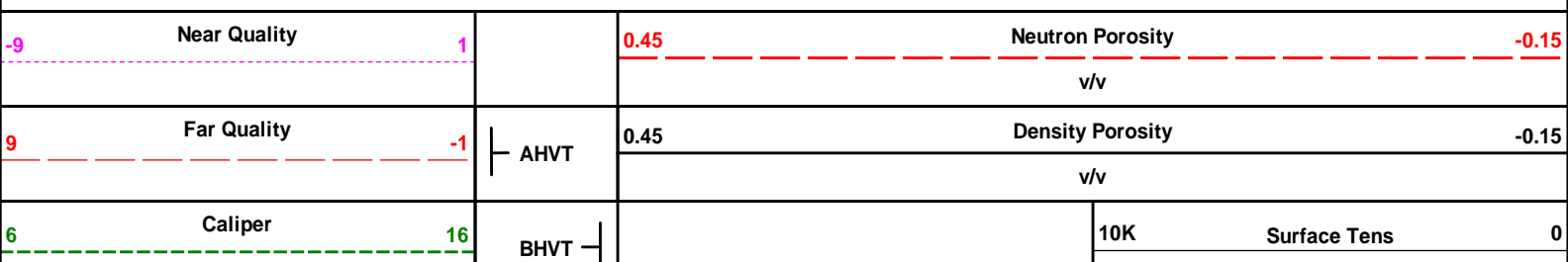
Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	8.750	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Oil	
	SHARED	MDWT	Borehole Fluid Weight	9.250	ppg
	SHARED	WAGT	Weighting Agent	Barite	
	SHARED	BSAL	Borehole salinity	80000.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	WPHS	OBM Water Phase Salinity NaCl	0.00	ppm
	SHARED	OFOW	Base Oil Fraction from Oil/Water Ratio	1.00	
	SHARED	OBMT	Oil based Mud Type	Diesel	
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	7.000	in
	SHARED	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	7650.00	ft
	SHARED	BHT	Bottom Hole Temperature	211.5	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

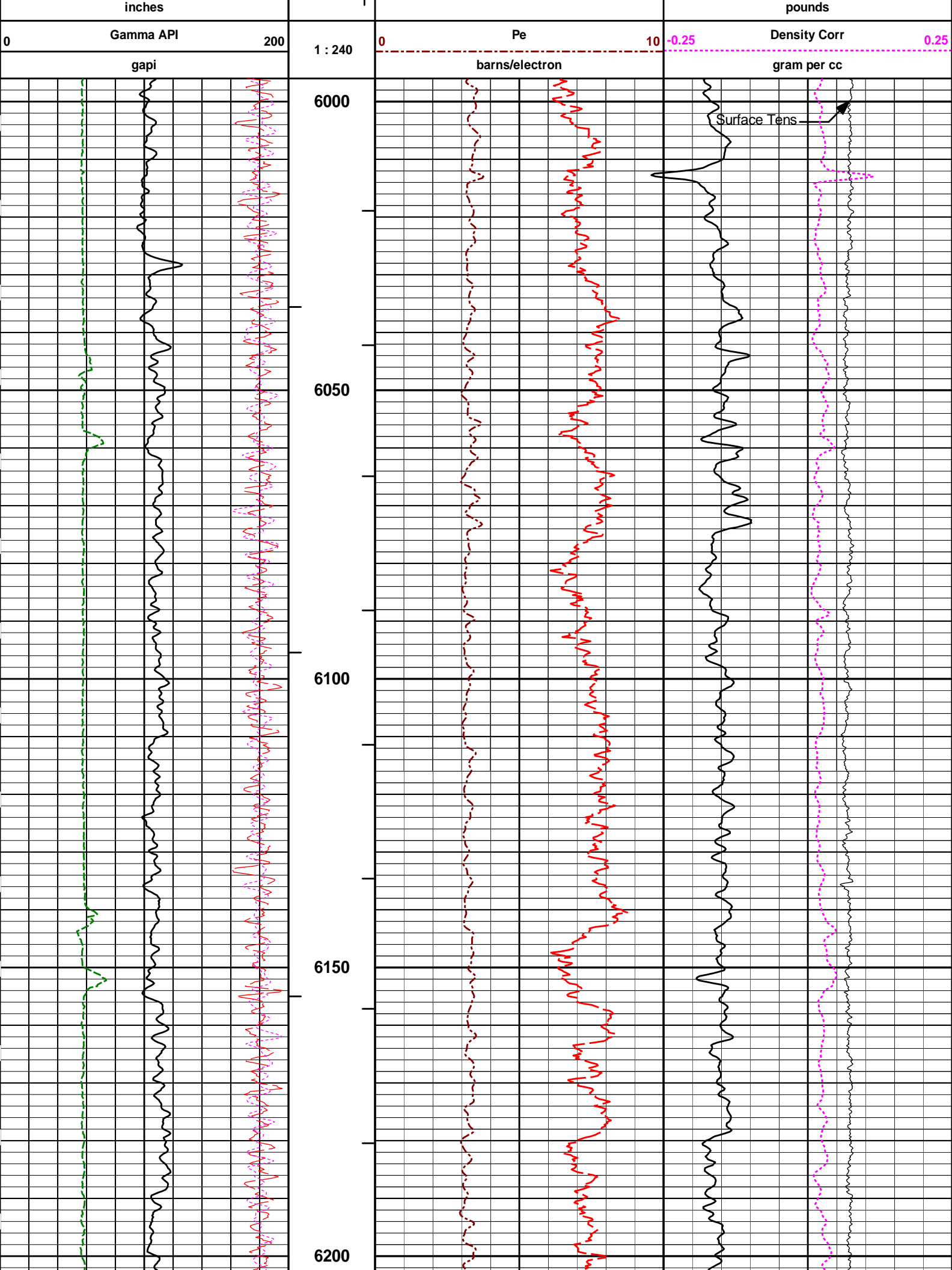
BOTTOM

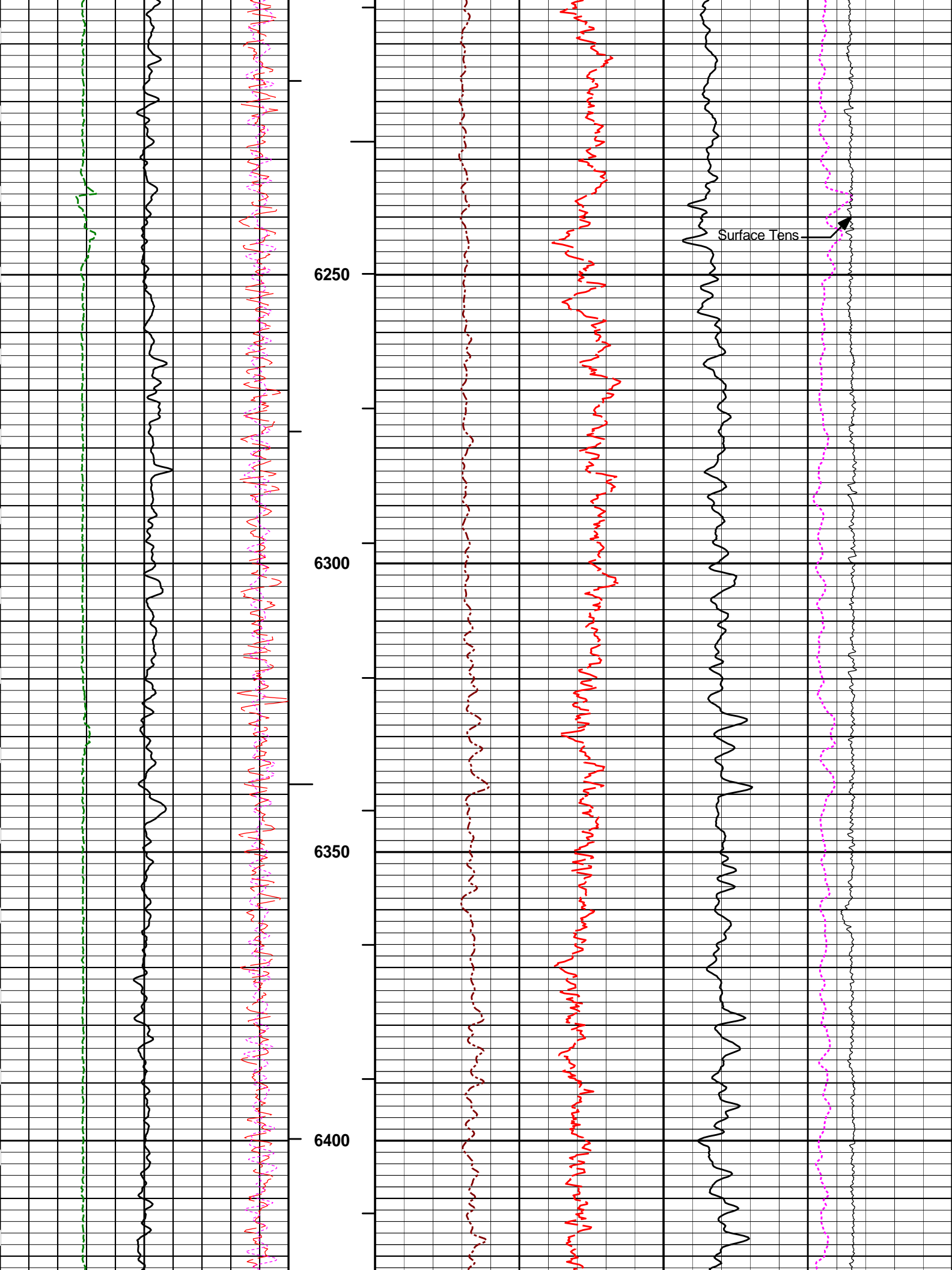
Data: CF_6-1H\0001 TRIPLE_WHITE_CSNG\IDLE Date: 30-Apr-13 07:48:55

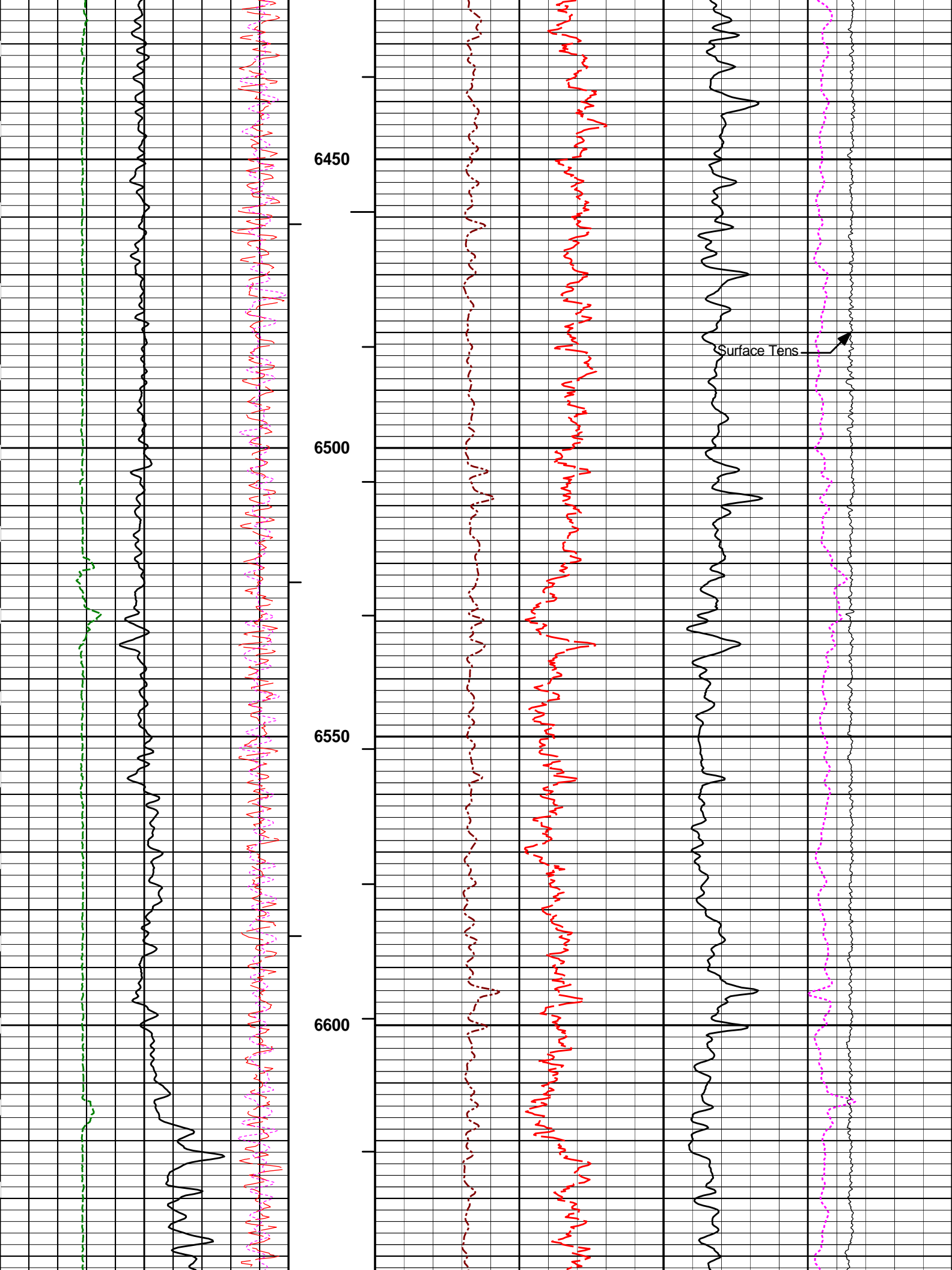
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Plot Range: 5996 ft to 7654.92 ft
Data: CF_6-1H\Well Based\PORO_CSNO
Plot File: \\PORO\IQ_POROSITY_5IN_RM

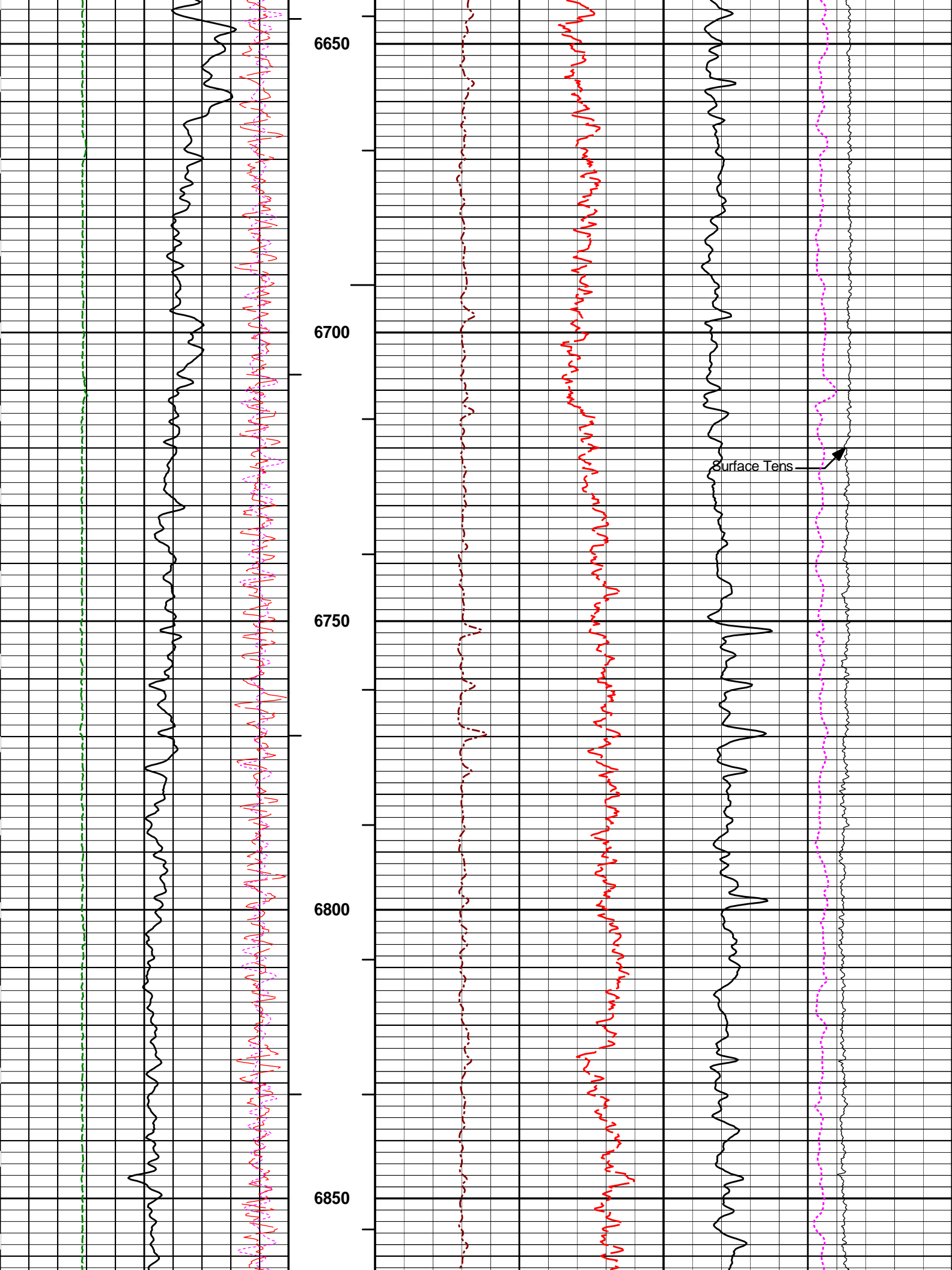
MAIN PASS 5" = 100

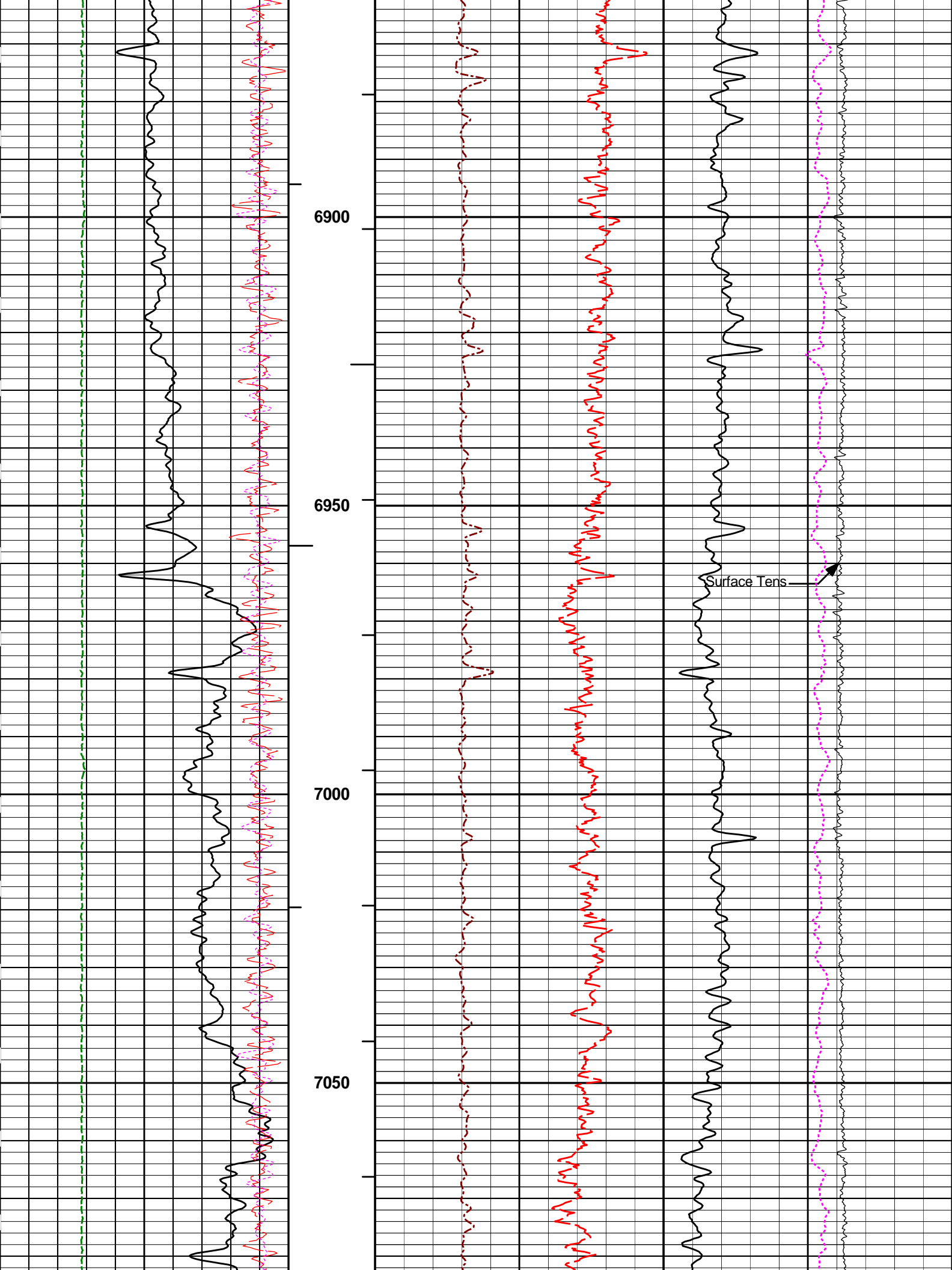


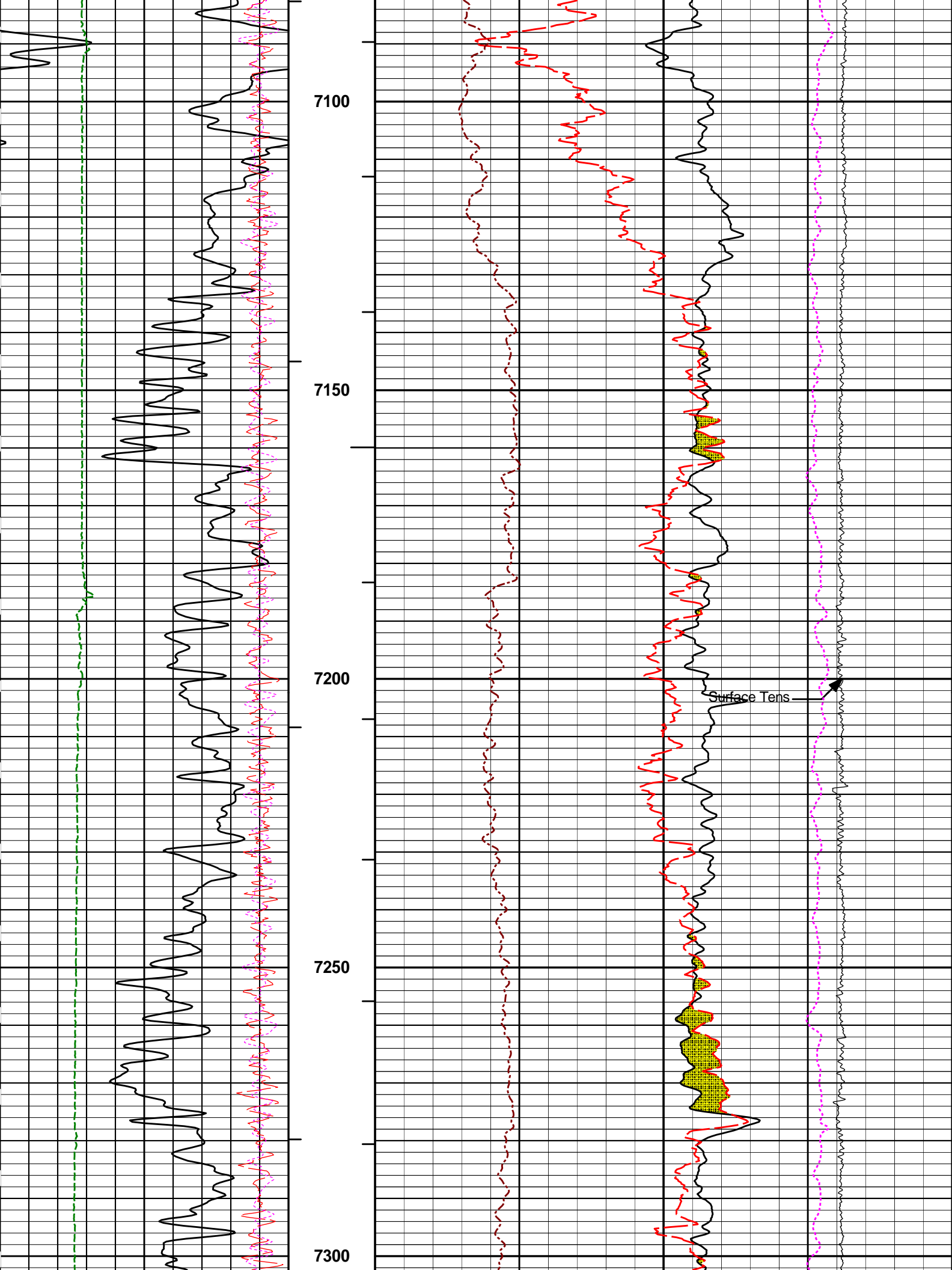


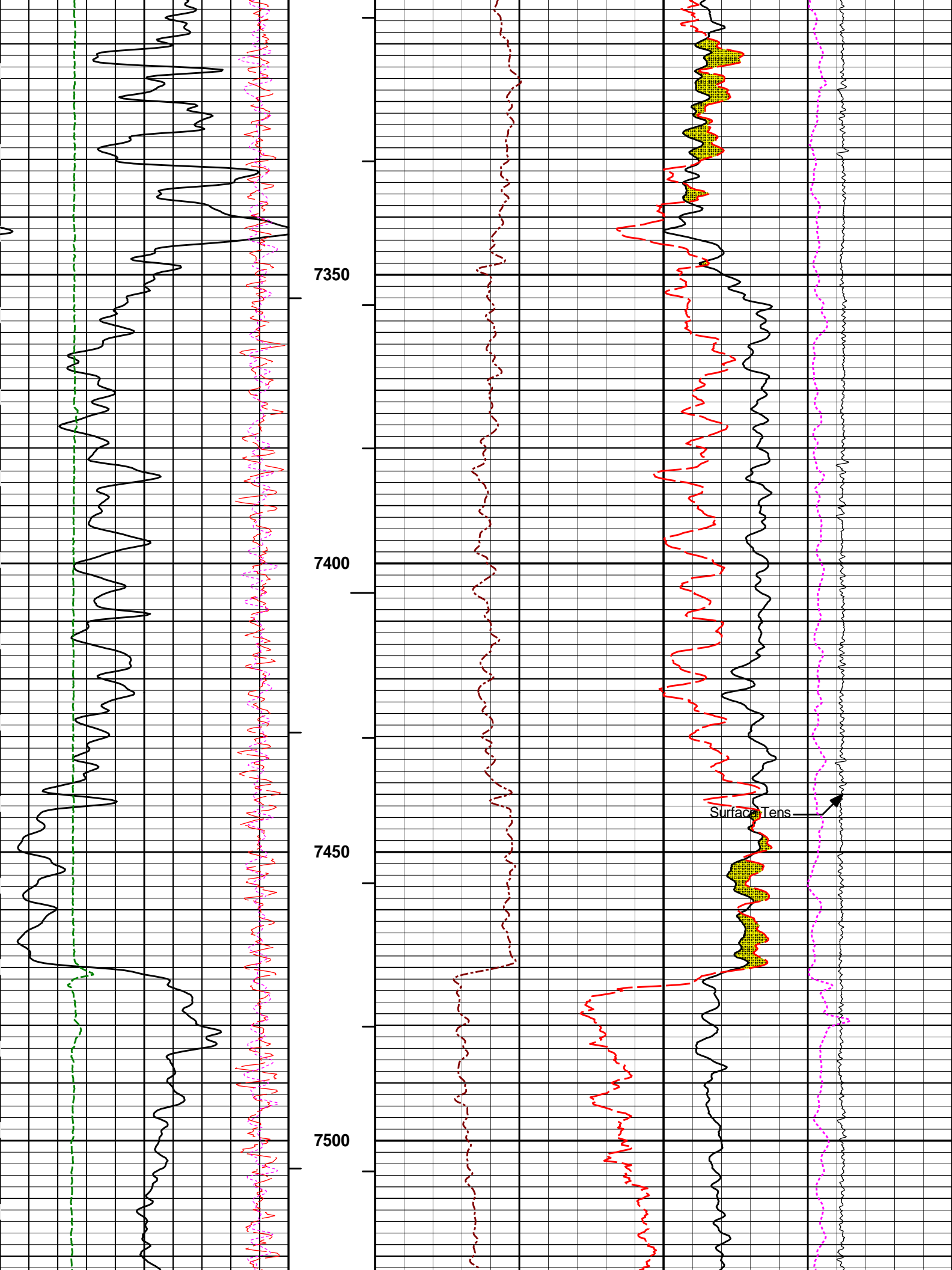


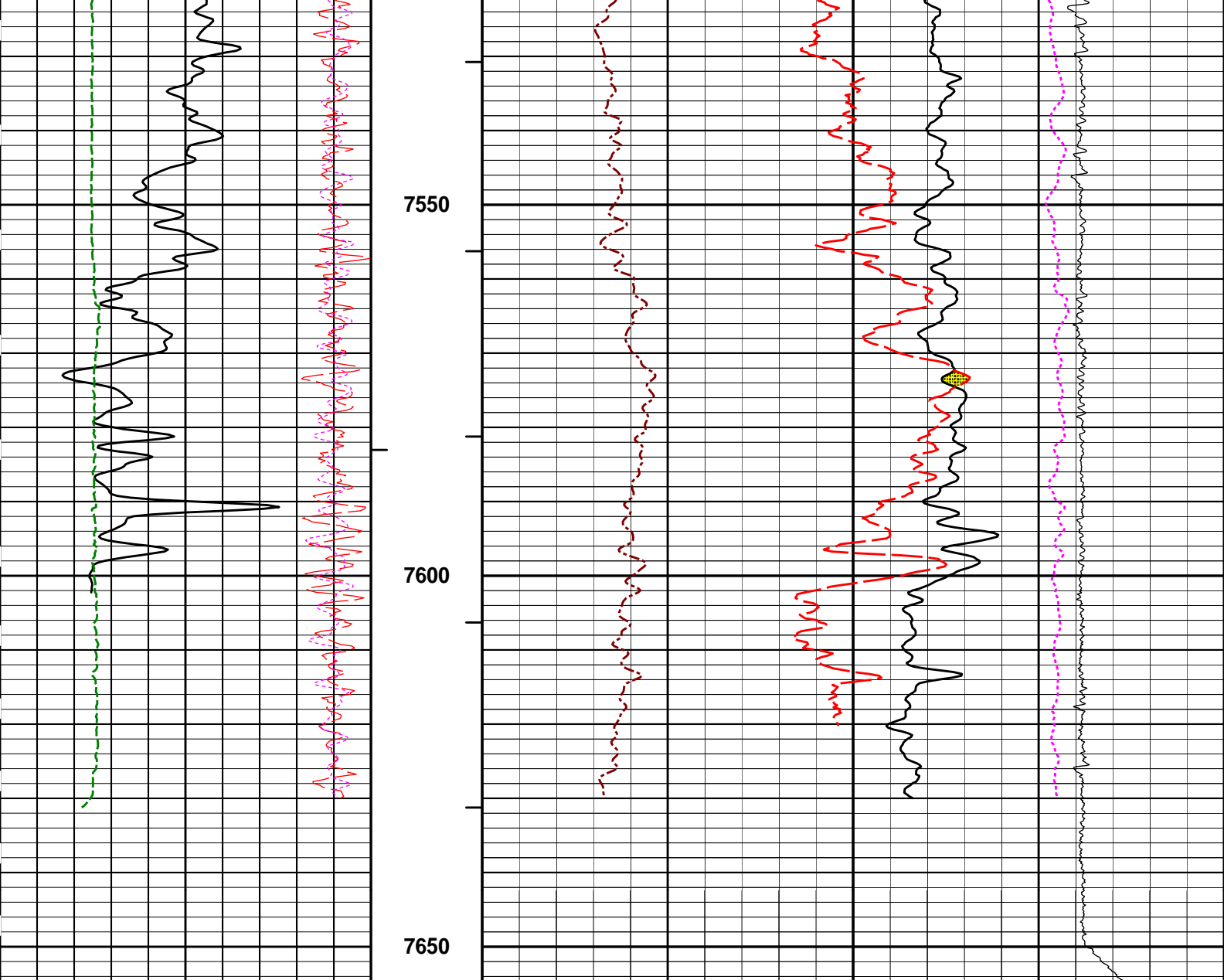












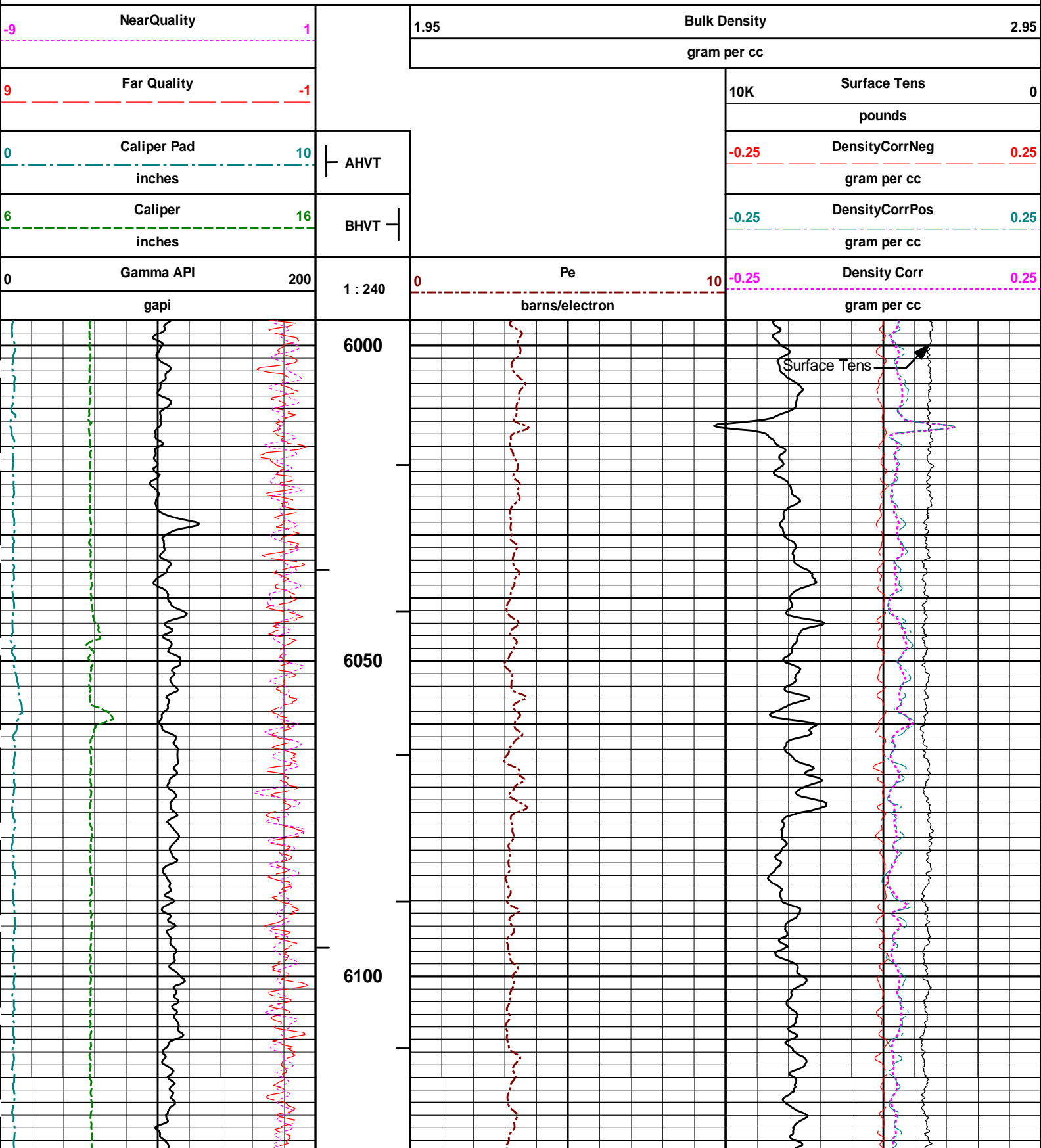
0	Gamma API	200	1 : 240	0	Pe	10	-0.25	Density Corr	0.25
	gapi				barns/electron			gram per cc	
6	Caliper	16	BHVT			10K		Surface Tens	0
	inches							pounds	
9	Far Quality	-1	AHVT	0.45	Density Porosity			-0.15	
					v/v				
-9	Near Quality	1		0.45	Neutron Porosity			-0.15	
					v/v				

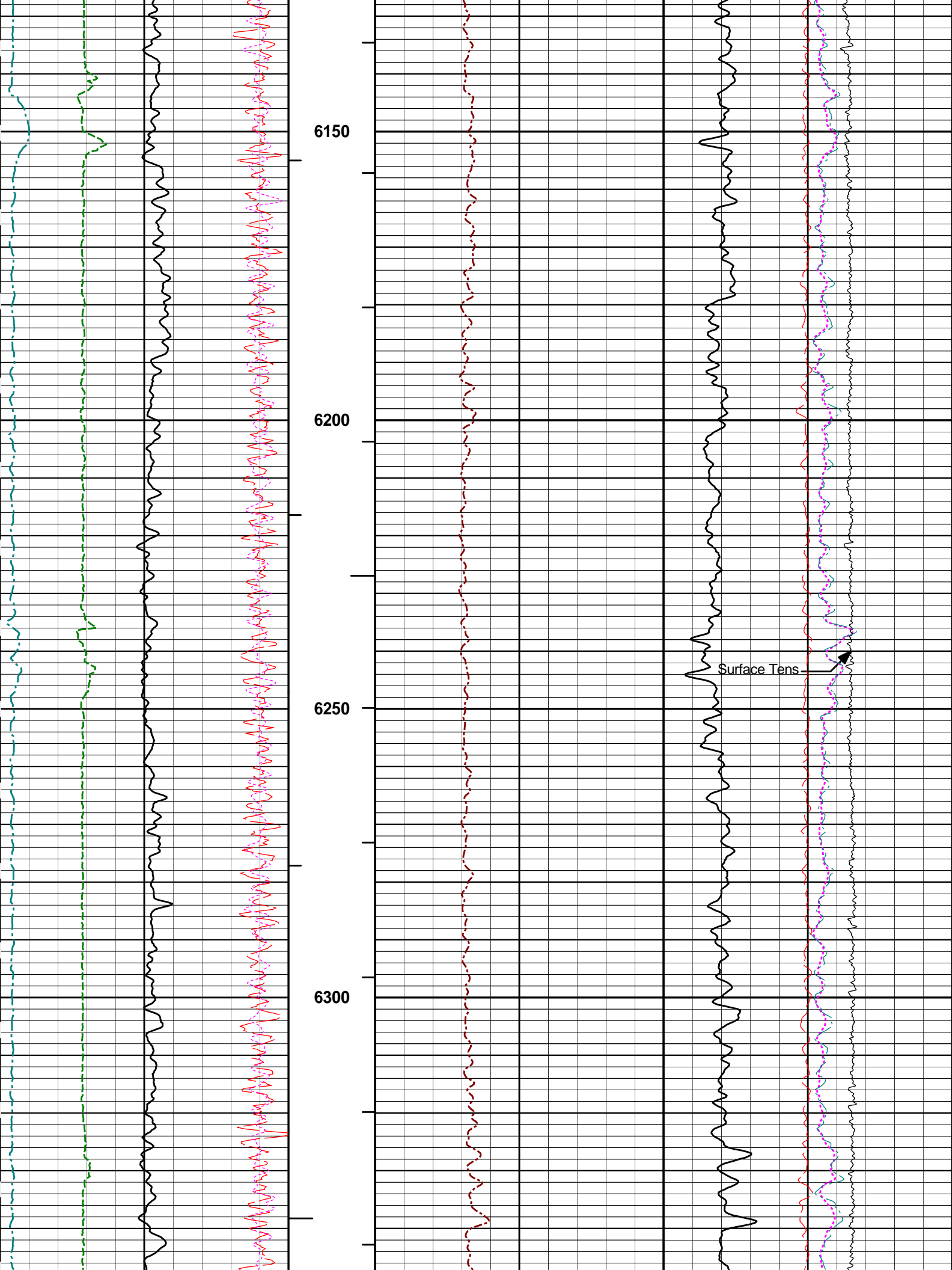
HALLIBURTON

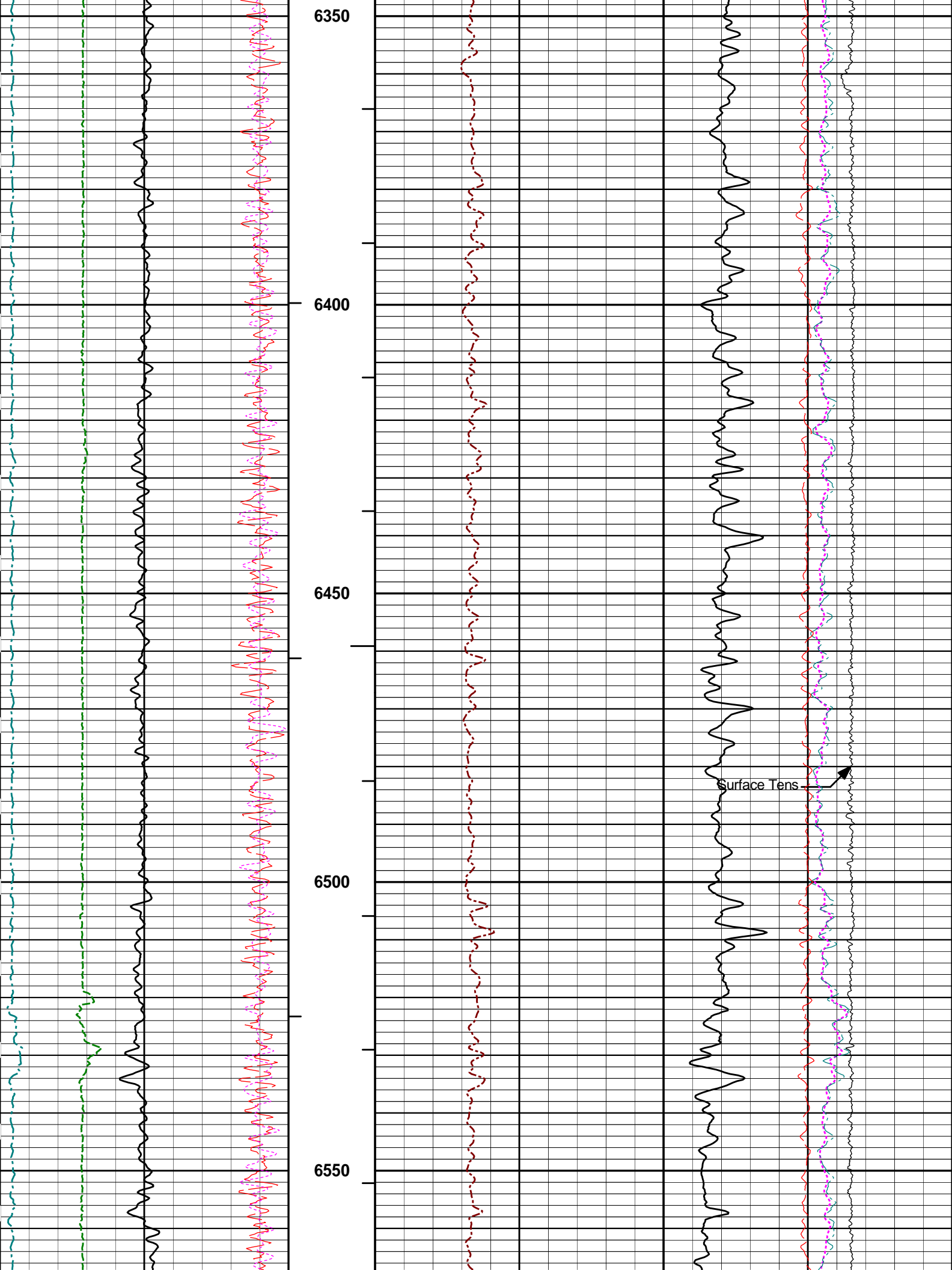
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Plot File: \\PORO\IQ_POROSITY_5IN_RM

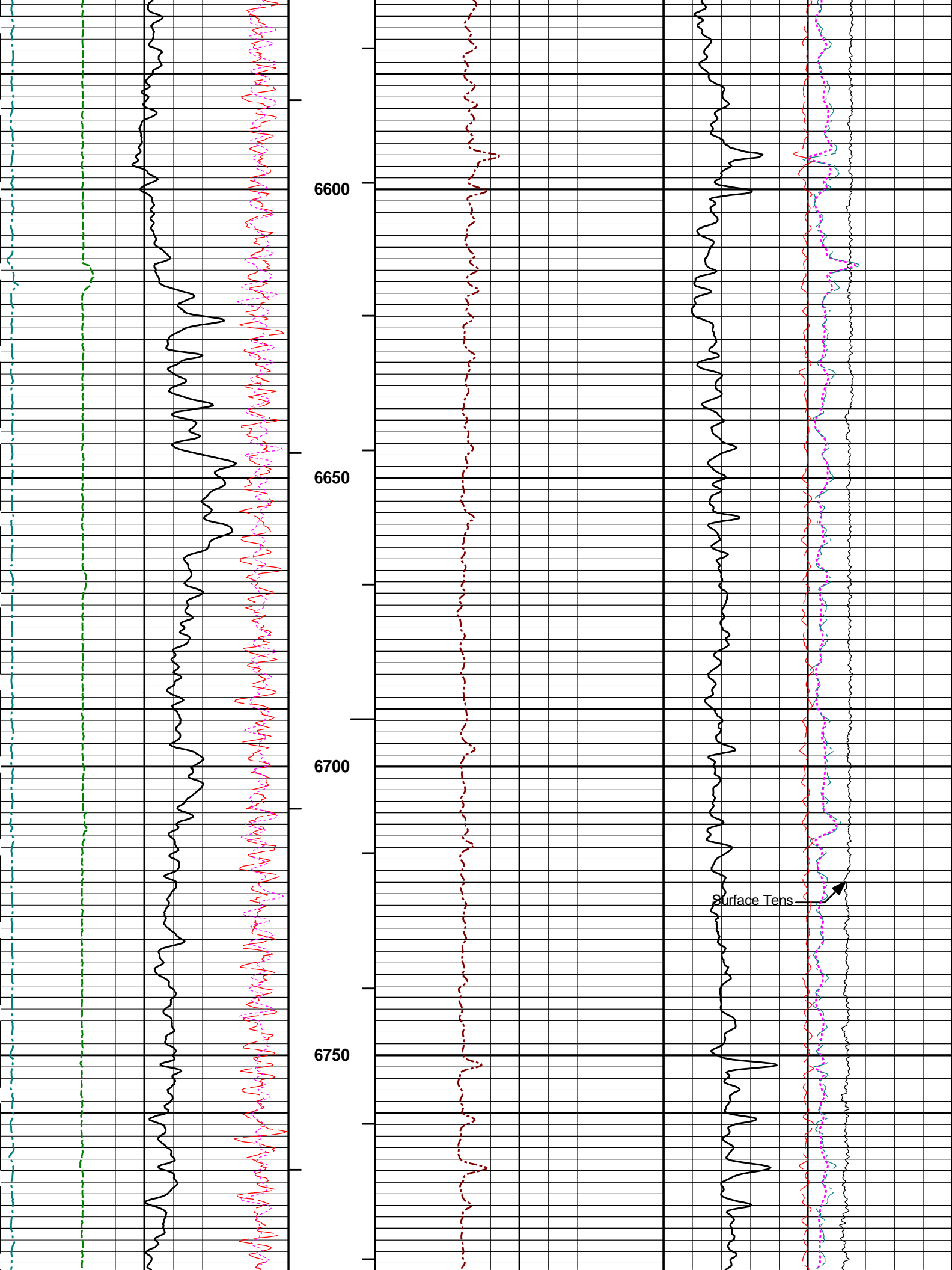
MAIN PASS 5" = 100'

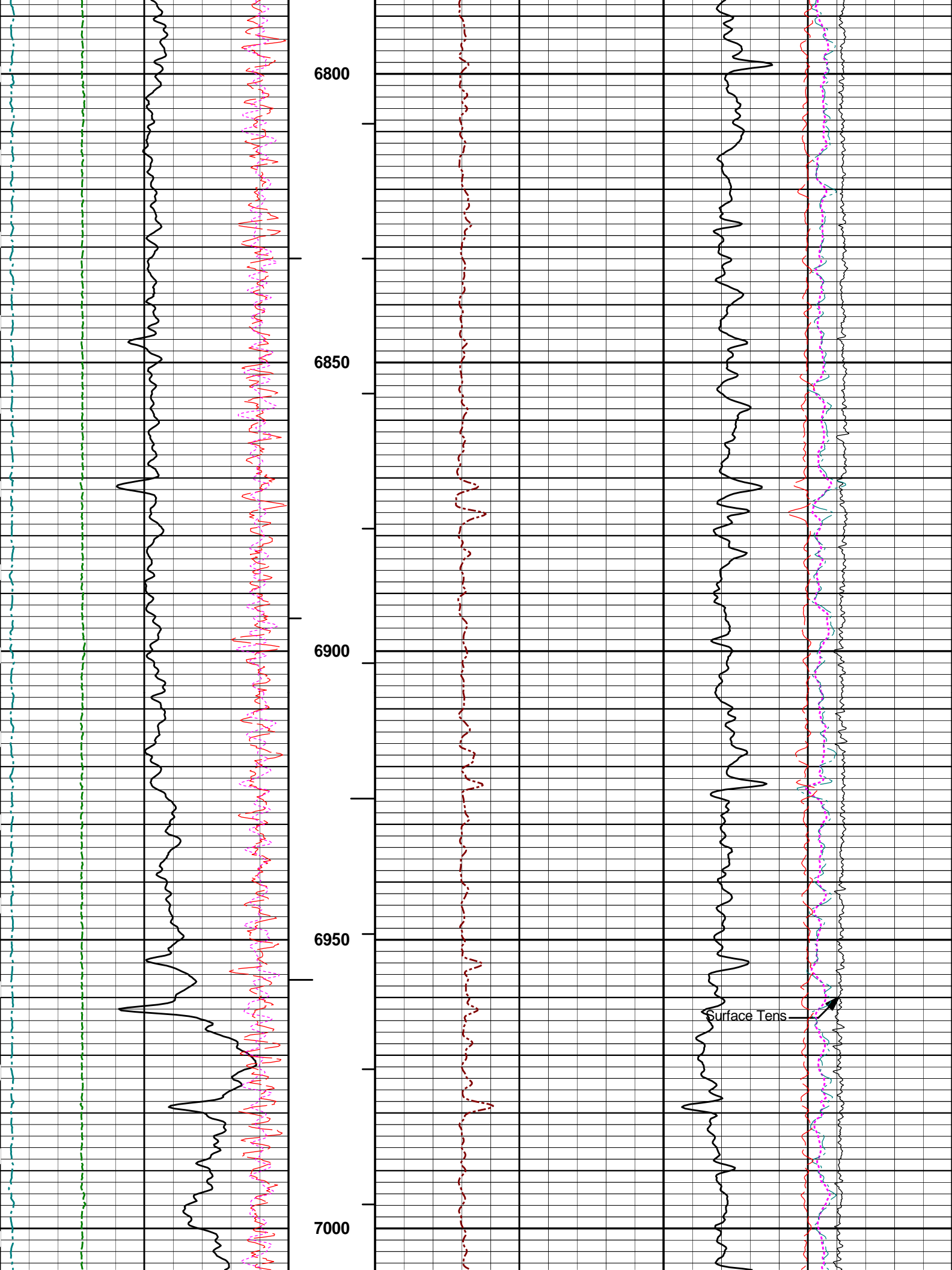
MAIN PASS 5" = 100'

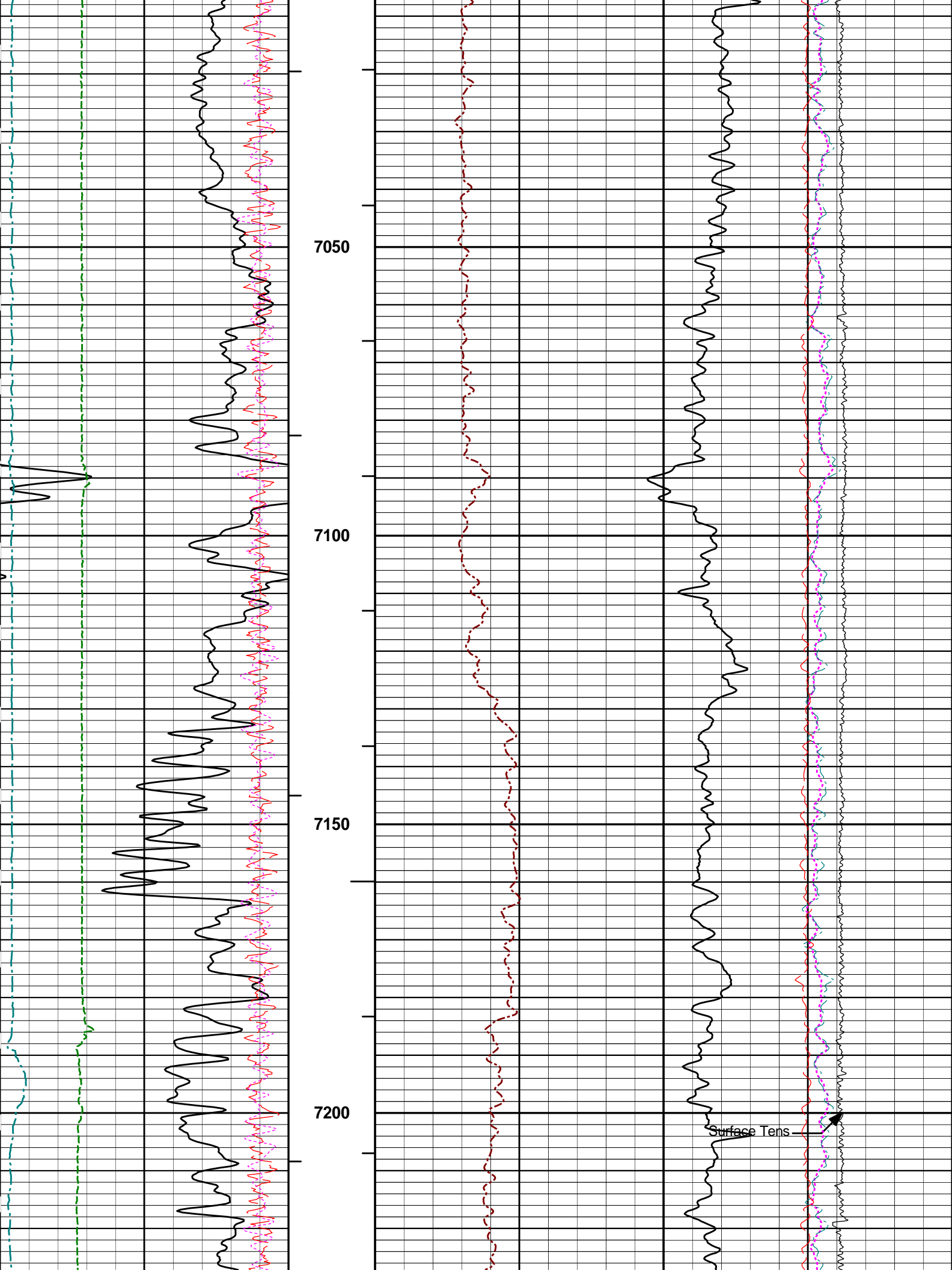


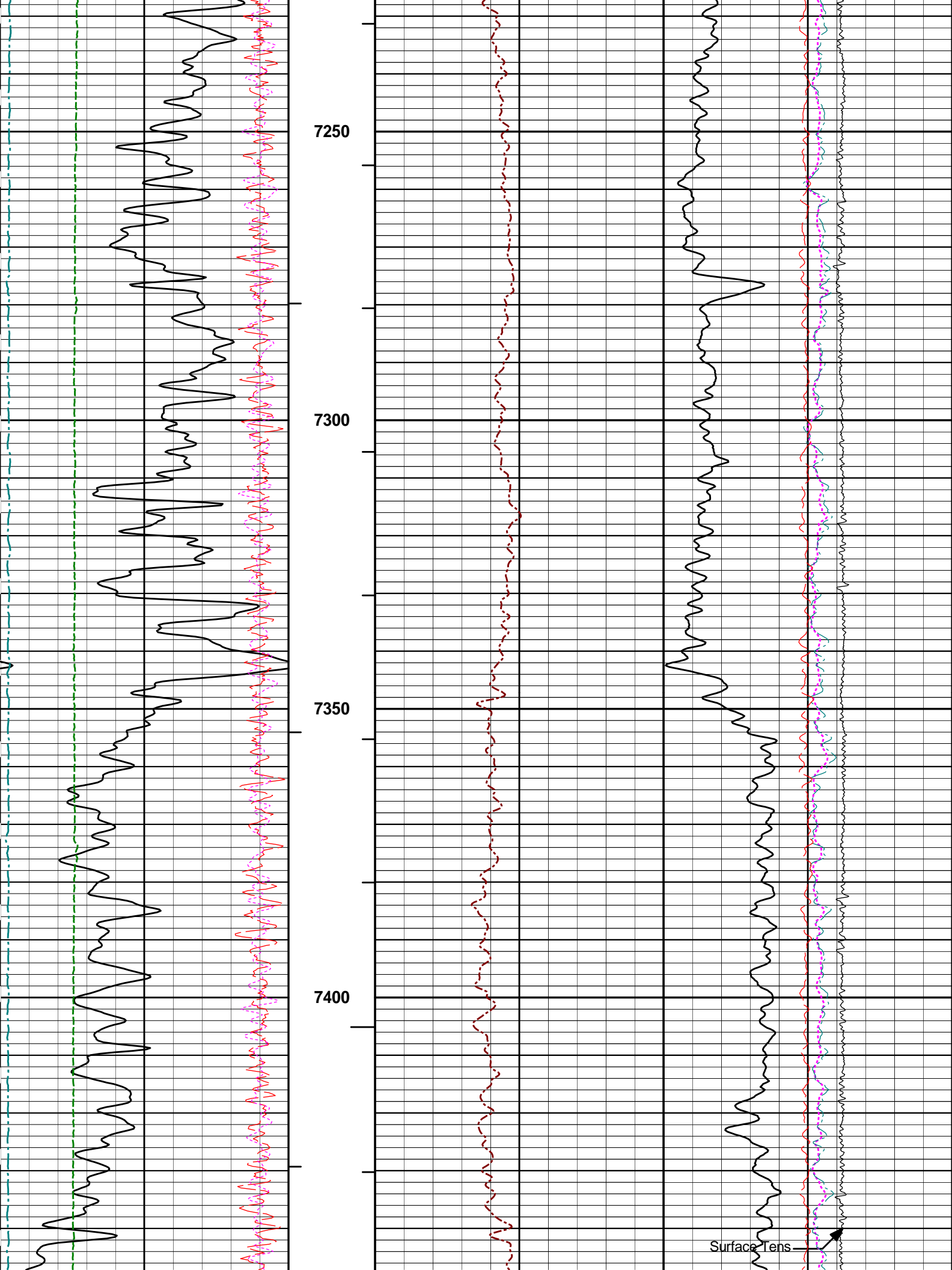


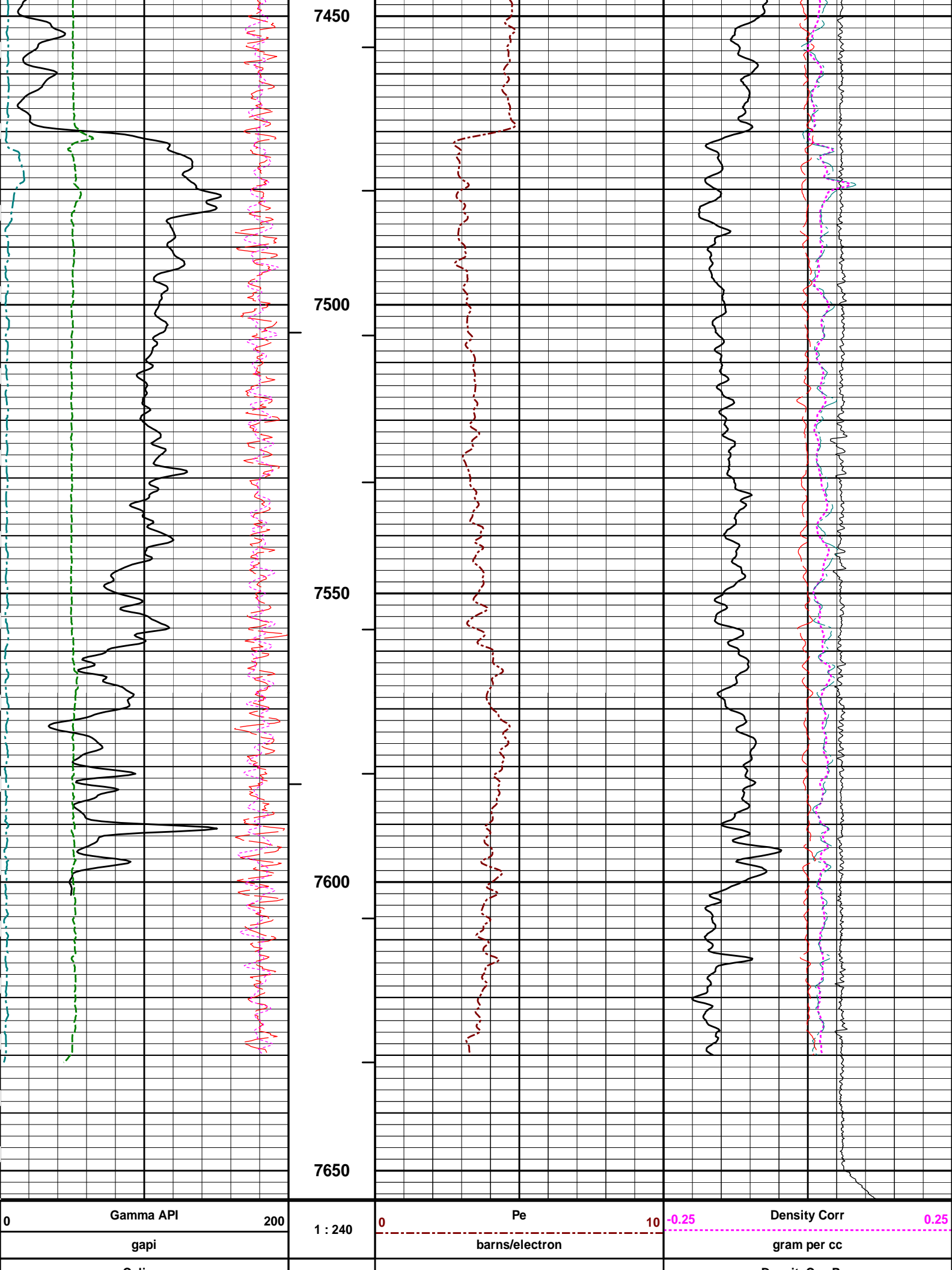












6	Caliper	16	BHVT		-0.25	DensityCorrPos	0.25	
	inches					gram per cc		
0	Caliper Pad	10	AHVT		-0.25	DensityCorrNeg	0.25	
	inches					gram per cc		
9	Far Quality	-1			10K	Surface Tens	0	
						pounds		
-9	NearQuality	1			1.95	Bulk Density		2.95
						gram per cc		

HALLIBURTON	Plot Time: 30-Apr-13 08:16:20 Plot Range: 5996 ft to 7654.92 ft Data: CF_6-1HWell Based\PORO_CSNG* Plot File: \\PORO\IQ_RHOB_5IN_RM
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MAIN PASS 5" = 100'

HALLIBURTON
CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION			
Tool Name:	GTET - 11294346	Reference Calibration Date:	22-Mar-13 08:13:40
Engineer:	J. SCHMIDT	Calibration Date:	17-Apr-13 09:44:15
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1

Calibrator Source S/N: TB-290			
Calibrator API Reference:230.00 api			
Equivalent Calibrator API Reference:234.0 api			
Measurement	Measured	Calibrated	Units
Background	71.8	72.6	api
Background + Calibrator	303.3	306.6	api
Calibrator	231.5	234.0	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION			
Tool Name:	GTET - 11294346	Reference Calibration Date:	17-Apr-13 09:44:15
Engineer:	C. CRADDOCK	Calibration Date:	29-Apr-13 15:23:14
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1

Calibrator Source S/N: TB-290			
Calibrator API Reference:230.00 api			
Equivalent Calibrator API Reference:234.0 api			
Field Verification	Shop	Field	Units
Background	72.6	75.5	api
Background + Calibrator	306.6	305.9	api
Calibrator	234.0	230.5	api
Shop	Field	Difference	Tolerance
234.0	230.5	3.5	+/- 9.00

CSNG-FS SHOP CALIBRATION			
Tool Name:	CSNG - 10846351	Reference Calibration Date:	14-Mar-13 09:19:24

Tool Name:	CSNG - 10846351	Reference Calibration Date:	14-Mar-13 09:16:24
Engineer:	J. PINKETT	Calibration Date:	28-Apr-13 11:02:49
Software Version:	WL INSITE R3.8.4 (Build 5)	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 #	23.8	23.7	Channel #
583 KEV Peak Channel #	53.4	53.5	Channel #
2614 KEV Peak Channel #	220.1	220.7	Channel #
Calibrate Temperature	60.8	58.5	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	1631.1	CPS	335.7	325.5	API
Background	322.3	CPS	59.7	64.3	API

Gamma Ray Gain: 1.00
 Expected Gain Range: 0.85 - 1.15
 Gamma Gain Check: Passed

CSNG-FS FIELD CALIBRATION			
Tool Name:	CSNG - 10846351	Reference Calibration Date:	28-Apr-13 11:02:49
Engineer:	C. CRADDOCK	Calibration Date:	29-Apr-13 16:11:21
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1
Source SN:			

TITANIUM CASE	Shop	Field	Units
60 KEV Peak Channel #	48.0	48.0	Channel #
239 KEV Peak Channel #	23.7	23.8	Channel #
583 KEV Peak Channel #	53.5	53.8	Channel #
2614 KEV Peak Channel #	220.7	222.0	Channel #
Calibrate Temperature	58.5	73.0	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	1646.8	CPS	325.5	324.3	API
Background	320.4	CPS	64.3	63.1	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 - 11219332	Reference Calibration Date:	22-Mar-13 10:13:07
Engineer:	J. SCHMIDT	Calibration Date:	17-Apr-13 10:07:38
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1

Logging Source S/N: DSN-430
Tank Serial Number: 11068236
Reference value assigned to Tank: 53.720
Snow Block S/N: 37526
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:	0.974	0.975	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):	0.2220	0.2223	0.0003	+/- 0.0020
Calibrated Ratio:	10.10	10.11	0.011	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit

Snow-Block Porosity (decp):	0.0661	0.02000 - 0.09000
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PASS/FAIL SUMMARY

Background Check:	Passed
Gain-Range Check:	Passed
Snow-Block Check:	Passed

DUAL SPACED NEUTRON FIELD CALIBRATION

Tool Name:	DSNT - 11219332	Reference Calibration Date:	17-Apr-13 10:07:38
Engineer:	C. CRADDOCK	Calibration Date:	29-Apr-13 16:25:32
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1

Logging Source S/N: DSN-430
Snow Block S/N: 37526

NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change

Snow-Block Porosity (decp):	0.0661	0.0750	0.0089	+/- 0.0150
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PASS/FAIL SUMMARY

Block Change Check:	Passed
Snow Block Stat Check:	Passed
Temperature Check:	Passed

DENSITY CALIPER SHOP CALIBRATION

Tool Name:	SDLT - 11014271	Reference Calibration Date:	17-Apr-13 11:39:30
Engineer:	J. SCHMIDT	Calibration Date:	17-Apr-13 11:46:41
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1
Host Tool Name:	DSNT - 11219332		

CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-3203.68	-3108.50	-7000.00 - -1000.00
Pad Gain	0.0003765	0.0003693	0.000200 - 0.000600
Arm Offset	-4070.30	-4286.01	-5000.00 - 3000.00
Arm Gain	0.0004927	0.0005143	0.000300 - 0.000700
Arm Power	-0.000000050	-0.000001717	-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)	2.00	2.00	0.00	+/- 0.20
Medium Ring (in)	3.79	3.75	-0.04	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.50	6.50	0.00	+/- 0.20
Medium Ring (in)	8.21	8.25	0.04	+/- 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

SDLT CALIPER FIELD CALIBRATION			
Tool Name:	SDLT - 11014271	Reference Calibration Date:	17-Apr-13 11:46:41
Engineer:	C. CRADDOCK	Calibration Date:	29-Apr-13 15:53:59
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1

MEASURED CALIPER VALUES				
Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.72	-0.03	+/- 0.10
Ring Diameter	8.25	8.11	-0.14	+/- 0.15

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

SPECTRAL DENSITY SHOP CALIBRATION			
Tool Name:	SDLT Pad - 11816600	Reference Calibration Date:	22-Mar-13 08:52:14
Engineer:	J. SCHMIDT	Calibration Date:	17-Apr-13 11:04:08
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1

Logging Source S/N: 5256GW

Aluminum Block S/N: 63066

Density: 2.590g/cc

Pe: 3.120

Magnesium Block S/N: 12345

Density: 1.691g/cc

Pe: 2.650

DENSITY CALIBRATION SUMMARY			
Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0616	1.0552	0.90 - 1.10
Near Dens Gain	1.0096	1.0171	0.90 - 1.10
Near Peak Gain	0.9973	1.0176	0.90 - 1.10
Near Lith Gain	0.9727	0.9671	0.90 - 1.10
Far Bar Gain	0.9979	0.9971	0.90 - 1.10
Far Dens Gain	0.9839	0.9839	0.90 - 1.10
Far Peak Gain	0.9800	0.9781	0.90 - 1.10
Far Lith Gain	0.9648	0.9641	0.90 - 1.10
Near Bar Offset	-0.4869	-0.4133	NONE
Near Dens Offset	0.0157	-0.0354	NONE
Near Peak Offset	0.1320	-0.0141	NONE
Near Lith Offset	0.3255	0.3997	NONE
Far Bar Offset	0.0621	0.0746	NONE
Far Dens Offset	0.1900	0.1989	NONE
Far Peak Offset	0.2057	0.2331	NONE
Far Lith Offset	0.3070	0.3268	NONE
Near Bar Background	1024.21	1026.43	700 - 1450
Near Dens Background	342.18	340.61	230 - 480
Near Peak Background	149.06	148.44	100 - 210
Near Lith Background	183.23	182.34	125 - 260
Far Bar Background	656.41	654.44	450 - 900
Far Dens Background	256.53	255.19	175 - 345
Far Peak Background	102.23	101.51	70 - 140
Far Lith Background	104.74	105.95	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.677	1.691	0.014	+/- 0.015
Pe	2.683	2.595	-0.088	+/- 0.150
ALUMINUM				
Density (g/cc)	2.577	2.590	0.013	+/- 0.01500
Pe	3.147	3.071	-0.076	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0000	+/- 0.0110	-0.0002	+/- 0.0140
Magnesium Block	-0.0013	+/- 0.0110	-0.0026	+/- 0.0140
Aluminum Block	-0.0015	+/- 0.0110	-0.0001	+/- 0.0140
Resolution	8.75	6.00 - 11.50	8.88	6.00 - 11.50
Internal Verifier(B+D+P+L)	1698	1200 - 2700	1117	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 - 11816600	Reference Calibration Date:	17-Apr-13 11:04:08
Engineer:	C. CRADDOCK	Calibration Date:	29-Apr-13 15:12:39
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1

Pad Temperature: 78.8 degF

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1697.821	1698.138	0.317	16.539
Far (B+D+P+L) cps	1117.096	1119.309	2.213	17.605
Near Resolution	8.75	8.61	-0.140	0.50
Far Resolution	8.88	8.86	-0.020	1.00

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

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name:	ACRt Sonde - 11585797	Reference Calibration Date:	29-Nov-12 13:18:43
Engineer:	J. PINKETT	Calibration Date:	01-Apr-13 21:19:13
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1
Host Tool Name:	ACRt Instrument - 11585787		

TYPICAL GAIN RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.01	1.05	0.95	1.01	1.05	0.95	1.01	1.05
A2 (50")	0.95	1.01	1.05	0.95	1.01	1.05	0.95	1.01	1.05
A3 (29")	0.95	1.01	1.05	0.95	1.01	1.05	0.95	1.01	1.05
A4 (17")	0.95	1.00	1.05	0.95	1.00	1.05	0.95	1.00	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.99	1.05	0.95	0.99	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.98	1.05	0.95	0.98	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	-3.06	2	-6	-5.14	-2	-8	-6.12	-2
A2 (50")	-7	-2.29	0	-7	-3.50	0	-7	-4.50	0
A3 (29")	-27	-17.11	-9	-9	-4.61	-3	-7	-3.44	-1
A4 (17")	-180	-119.14	-60	-45	-35.44	-15	-39	-27.14	-13
A5 (10")	N/A	N/A	N/A	-150	-95.73	-50	-80	-49.25	-10
A6 (6")	N/A	N/A	N/A	175	307.88	525	90	155.80	270

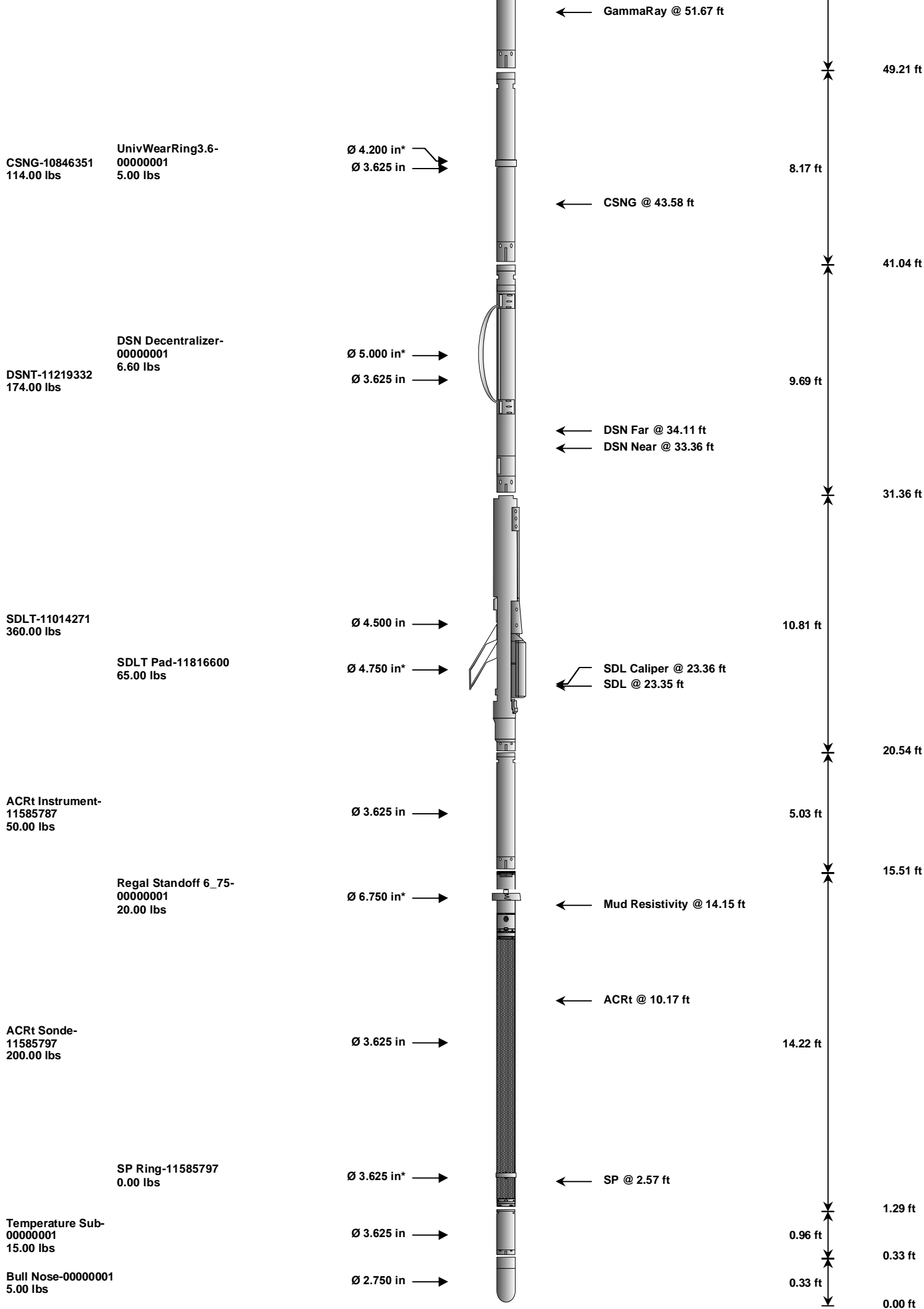
TRANSMITTER CURRENT GAIN

R-MUD VERIFICATION

Signal	Lower	R	Upper	Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
12K	0.6	0.85	1.3	Mud Cell	0.95	1.00	1.05
36K	1.0	1.83	2.0				
72K	1.0	1.10	2.0				
<div>PASS/FAIL SUMMARY</div> <div> <div>GAIN RANGE CHK</div> <div>PASS</div> </div> <div> <div>SONDE OFFSET RANGE CHK</div> <div>PASS</div> </div> <div> <div>Tx CURRENT GAIN</div> <div>PASS</div> </div> <div> <div>Rmud VERIFICATION</div> <div>PASS</div> </div> <div>TOOL OK TO LOG</div>							

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11294346						
Gamma Ray Calibrator	234.0	230.5	-----	3.5	+/- 9.00	api
CSNG-10846351						
60 KEV Peak Channel #	48.0	48.0	-----	0.0	-----	Channel #
239 KEV Peak Channel #	23.7	23.8	-----	-0.1	-----	Channel #
583 KEV Peak Channel #	53.5	53.8	-----	-0.3	-----	Channel #
2614 KEV Peak Channel #	220.7	222.0	-----	-1.3	-----	Channel #
DSNT-11219332						
Snow-Block Porosity	0.0661	0.0750	-----	-0.0089	+/- 0.0150	decp
SDLT-11014271						
Pad Extension	3.75	3.72	-----	0.03	+/-0.10	in
Ring Diameter	8.25	8.11	-----	0.14	+/-0.15	in
SDLT Pad-11816600						
Near(B+D+P+L)	1697.821	1698.138	-----	-0.317	+/-16.539	cps
Far(B+D+P+L)	1117.096	1119.309	-----	-2.213	+/-17.605	cps
ACRt Sonde-11585797						
Mud Cell	1.00	-----	-----	0.00	-----	ohm-m
Data: CF_6-1H\0001 TRIPLE_WHITE_CSNG\IDLE					Date: 30-Apr-13 00:23:30	

HALLIBURTON						
TOOL STRING DIAGRAM REPORT						
Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
RWCH-11030643 135.00 lbs		Ø 3.625 in →		← Load Cell @ 60.30 ft ← BH Temperature @ 59.73 ft	6.25 ft	63.98 ft
						57.73 ft
GTET-11294346 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	11030643	135.00	6.25	57.73	300.00	
GTET	Gamma Telemetry Tool	11294346	165.00	8.52	49.21	60.00	
CSNG	Compensated Spectral Natural Gamma	10846351	114.00	8.17	41.04	15.00	
UWR3P6	Universal Wear Ring 3 5-8 inch	00000001	5.00	0.35	*	45.12	300.00
DSNT	Dual Spaced Neutron	11219332	174.00	9.69	31.36	60.00	
DCNT	DSN Decentralizer	00000001	6.60	5.13	*	34.69	300.00
SDLT	Spectral Density Tool	11014271	360.00	10.81	20.54	60.00	
SDLP	Density Insite Pad	11816600	65.00	2.55	*	22.75	60.00
ACRt	Array Compensated True Resistivity Instrument Section	11585787	50.00	5.03	15.51	300.00	
ACRt	Array Compensated True Resistivity Sonde Section	11585797	200.00	14.22	1.29	300.00	
SP	SP Ring	11585797	0.00	0.25	*	2.57	300.00
RSOF	Regal Standoff 6.75in	00000001	20.00	0.52	*	14.21	300.00
TMAX	Temperature Sub - 3_625 OD	00000001	15.00	0.96	0.33	300.00	
BLNS	Bull Nose	00000001	5.00	0.33	0.00	300.00	
Total			1,314.60	63.98			
* Not included in Total Length and Length Accumulation.							
Data: CF_6-1H\0001 TRIPLE_WHITE_CSNG\IDLE					Date: 30-Apr-13 00:22:24		

COMPANY	CONOCO PHILLIPS COMPANY		
WELL	CONVERSE FAMILY 6-1H		
FIELD	WILDCAT		
COUNTY	ARAPAHOE	STATE	CO
HALLIBURTON		SPECTRAL DENSITY DUAL SPACED NEUTRON	