

HALLIBURTON

HIGH FREQUENCY DIELECTRIC LOG

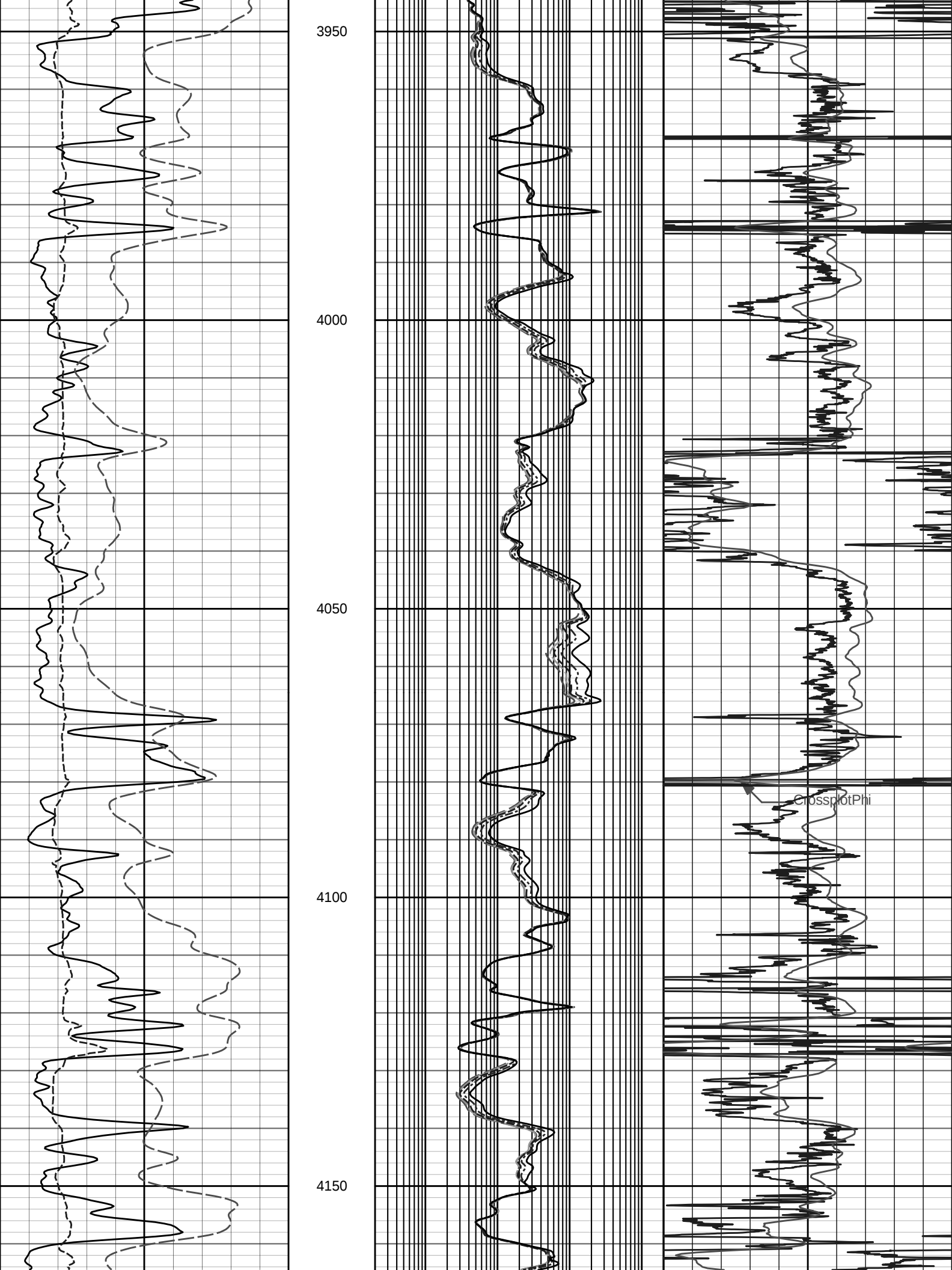
COMPANY		OXY USA INC.	
WELL		DRUSSEL E-4	
FIELD/BLOCK		HUGOTON GAS AREA	
COUNTY		FINNEY	
STATE		KANSAS	
Permanent Datum		GL	
Log measured from		KB	
Drilling measured from		KB	
Date		09-Oct-13	
Run No.		ONE	
Depth - Driller		5293.00 ft	
Depth - Logger		5293.0 ft	
Bottom - Logged Interval		5229.0 ft	
Top - Logged Interval		3900.0 ft	
Casing - Driller		8.625 in @ 1640.0 ft	
Casing - Logger		1640.0 ft	
Bit Size		7.875 in @	
Type Fluid in Hole		WATER BASED MUD	
Density		10.0 ppg 42.00 s/qt	
PH		9.90 pH 8.8 cphm	
Source of Sample		MUD PIT	
Rm @ Meas. Temperature		1.300 ohmm @ 75.00 degF @	
Rmf @ Meas. Temperature		1.07 ohmm @ 75.00 degF @	
Rmc @ Meas. Temperature		1.550 ohmm @ 75.00 degF @	
Source Rmf		MEASURED	
Rm @ BHT		0.72 ohmm @ 140.0 degF @	
Time Since Circulation		5.0 hr	
Time on Bottom		09-Oct-13 08:45	
Max. Rec. Temperature		140.0 degF @ 5293.0 ft @	
Equipment		11230668 LIBERAL	
Recorded By		J. BOLLOW	
Witnessed By		G. FLAGG	

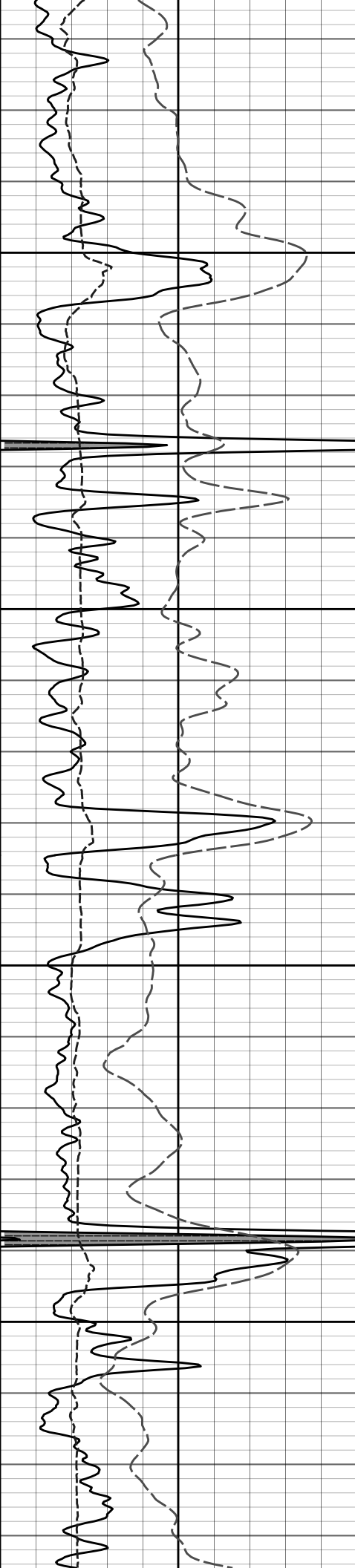
COMPANY	OXY USA INC.
WELL	DRUSSEL E-4
FIELD/BLOCK	HUGOTON GAS AREA
COUNTY	FINNEY
STATE	KANSAS
API No.	15055222400000
Location	(SHL) 414' FSL & 1672' FEL NW SE SW SE
Other Services:	MICROLOG DSNT, SDLT ACRT BSAT
Sect.	36
Twp.	25S
Rge.	33W
Elev.	2889.0 ft
D.F.	2899.0 ft
G.L.	2889.0 ft

Fold here

Service Ticket No.: 900805003				API Serial No.: 15055222400000				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		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.		@		@											
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.				Run No.			
Serial No.		10748374		Serial No.				Serial No.				Serial No.			
Model No.		GTET		Model No.				Model No.				Model No.			
Diameter		3.625"		No. of Cent.				Diameter				Diameter			
Detector Model No.		T-102		Spacing				Log Type				Log Type			
Type		SCINT						Source Type				Source Type			
Length		8'		LSA [Y/N]				Serial No.				Serial No.			
Distance to Source		25'		FWDA [Y/N]				Strength				Strength			
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	5293	3900	REC	0	150									
DIRECTIONAL INFORMATION														
Maximum Deviation @								KOP @						
Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5-INCH CASING														
CHLORIDES REPORTED AT 3,000 MG/L														
LCM REPORTED AT 2 LB/BBL														
GTET-HFDT-DSNT-SDLT-BSAT-ACRT RUN IN COMBINATION														
TODAY'S CREW: F. VILLA & V. JAIME														
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES LIBERAL, KS. 620-624-8123														
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.														
HALLIBURTON														



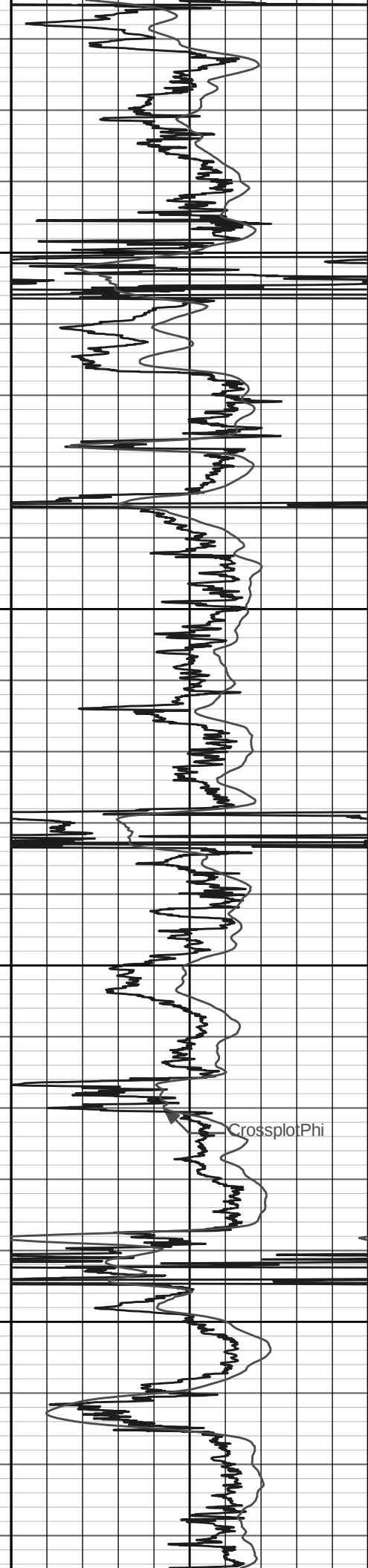
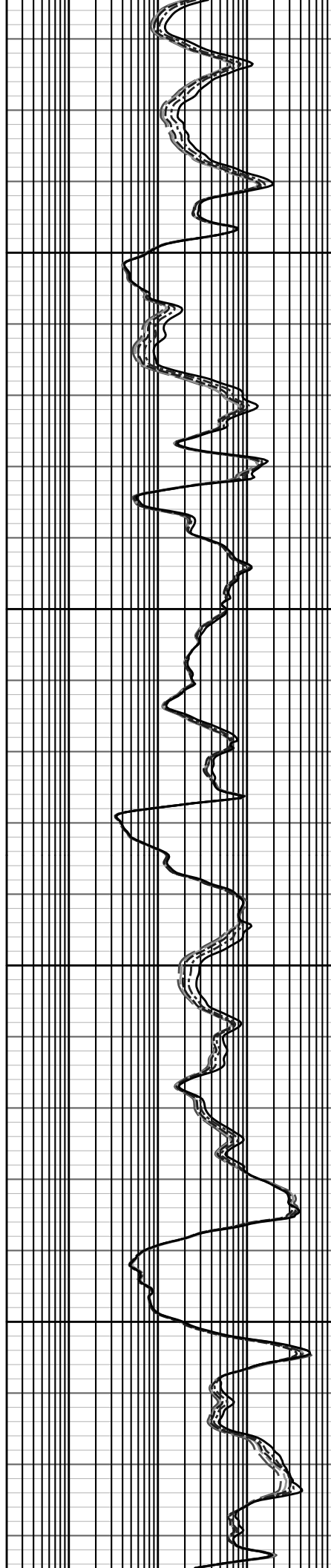


4200

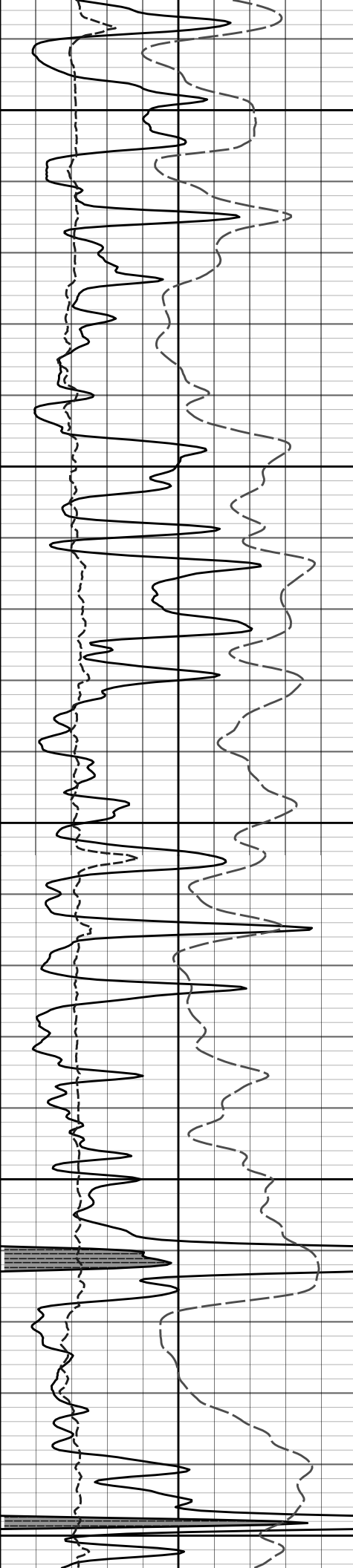
4250

4300

4350



CrossplotPhi



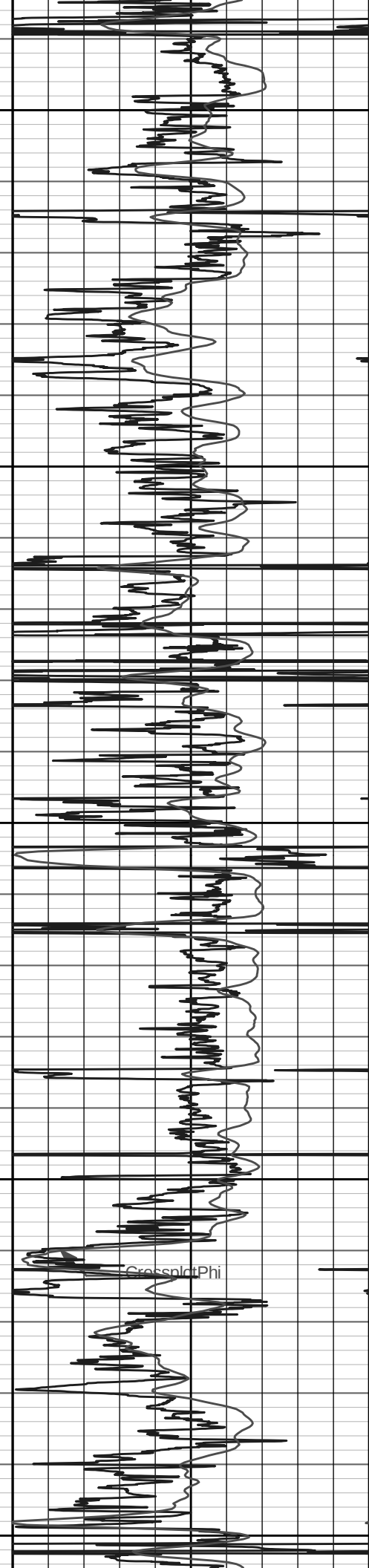
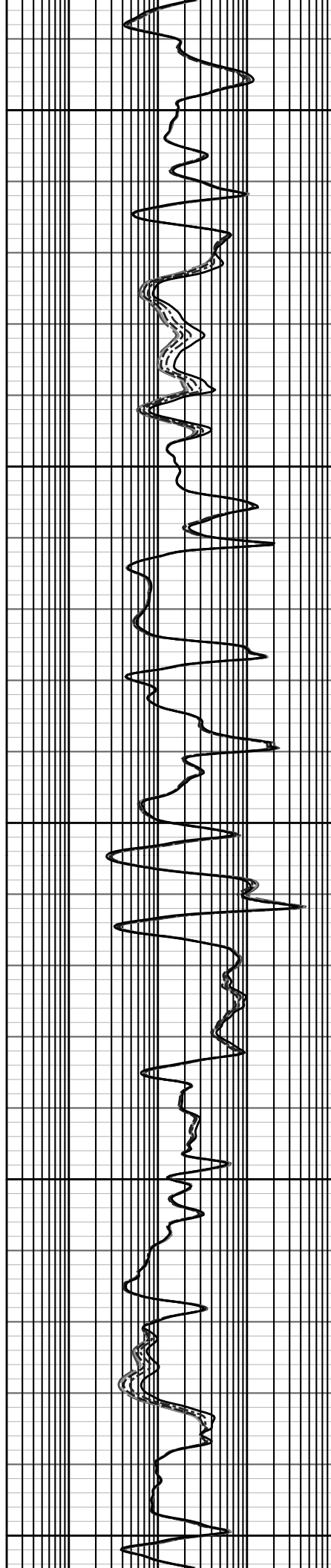
4400

4450

4500

4550

4600



CrossplotPhi

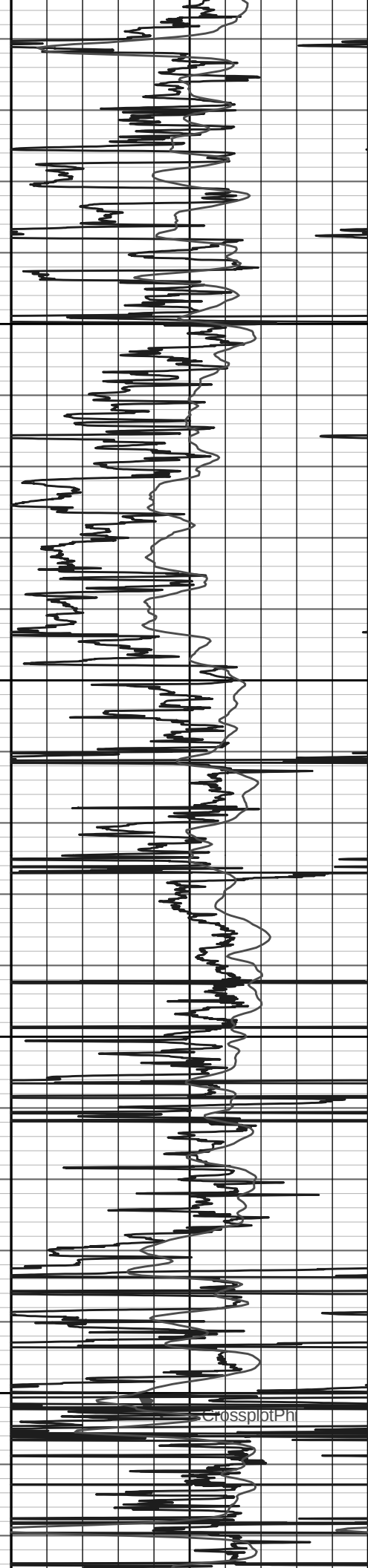
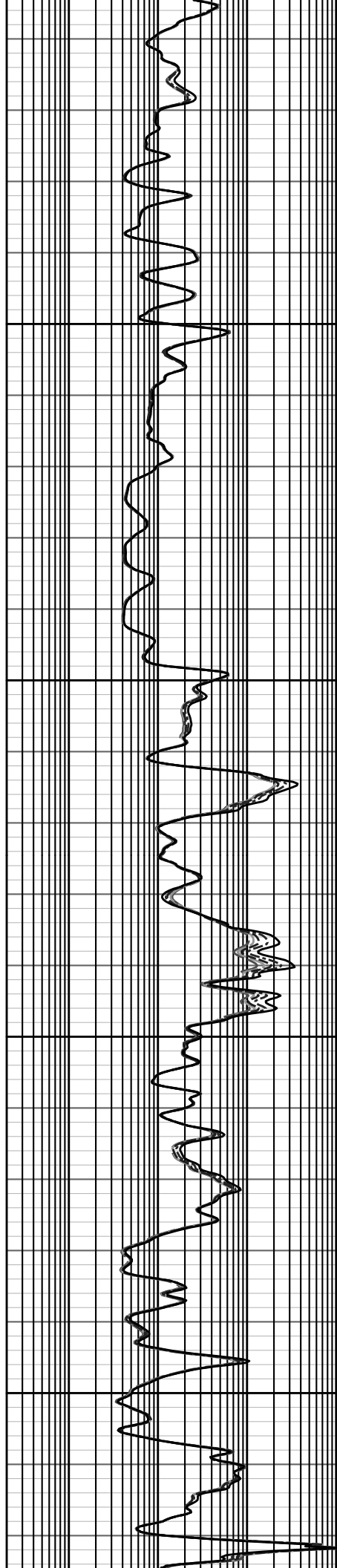


4650

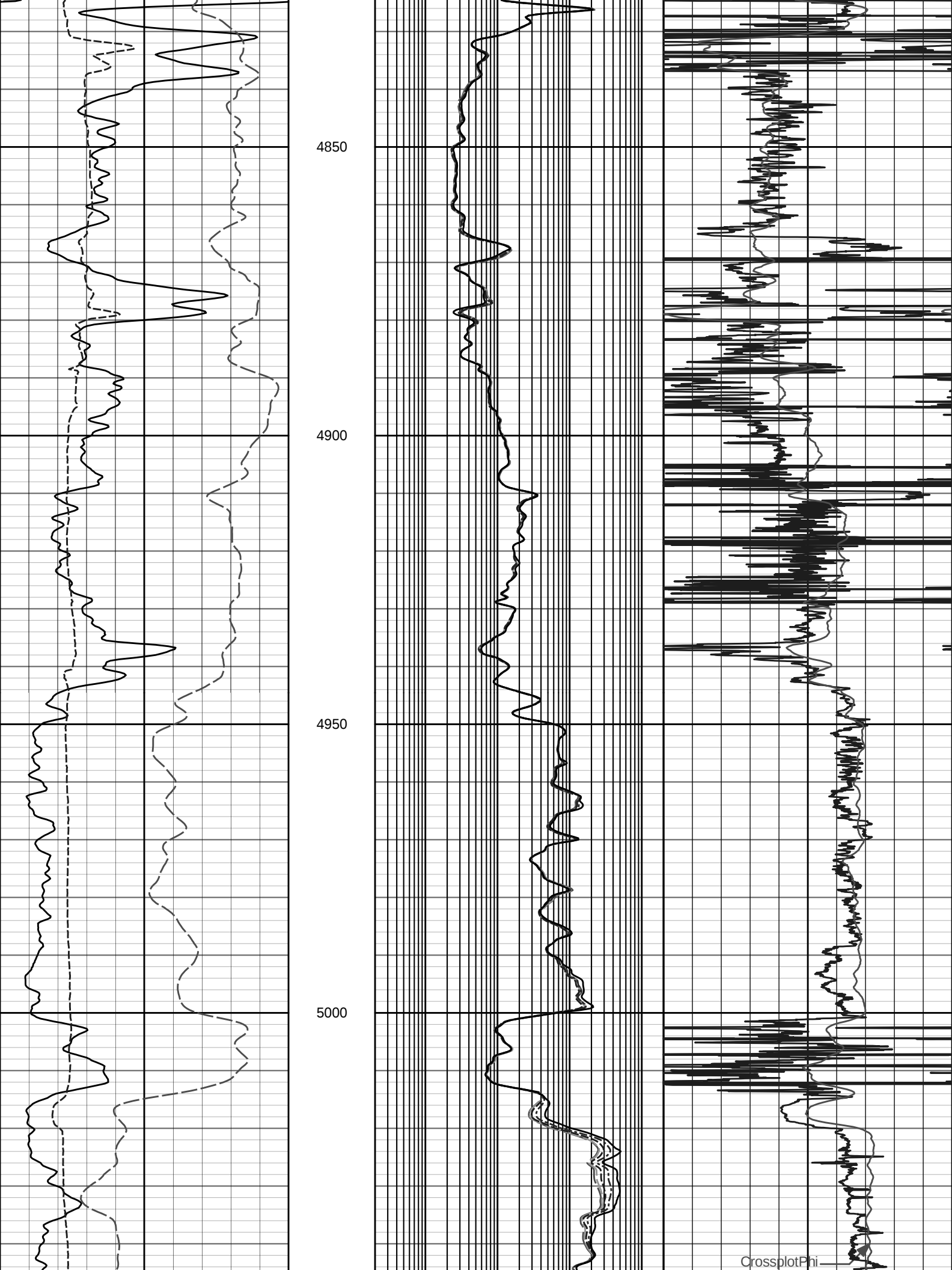
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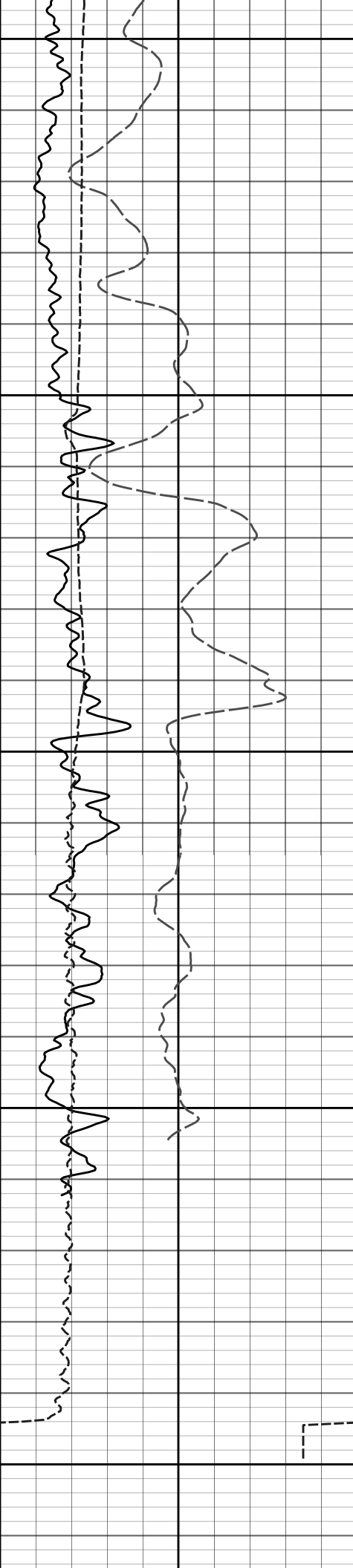
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4800



CrossplotPh





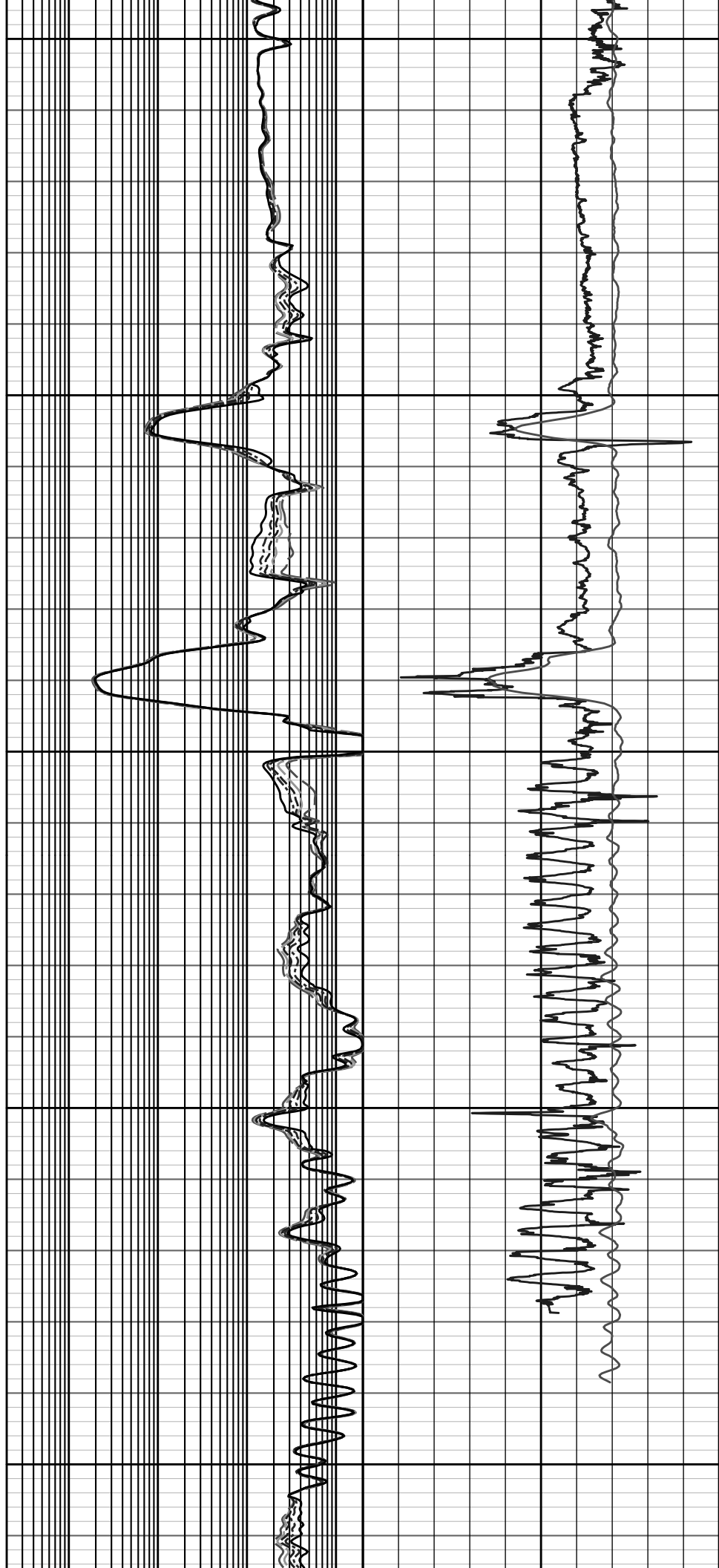
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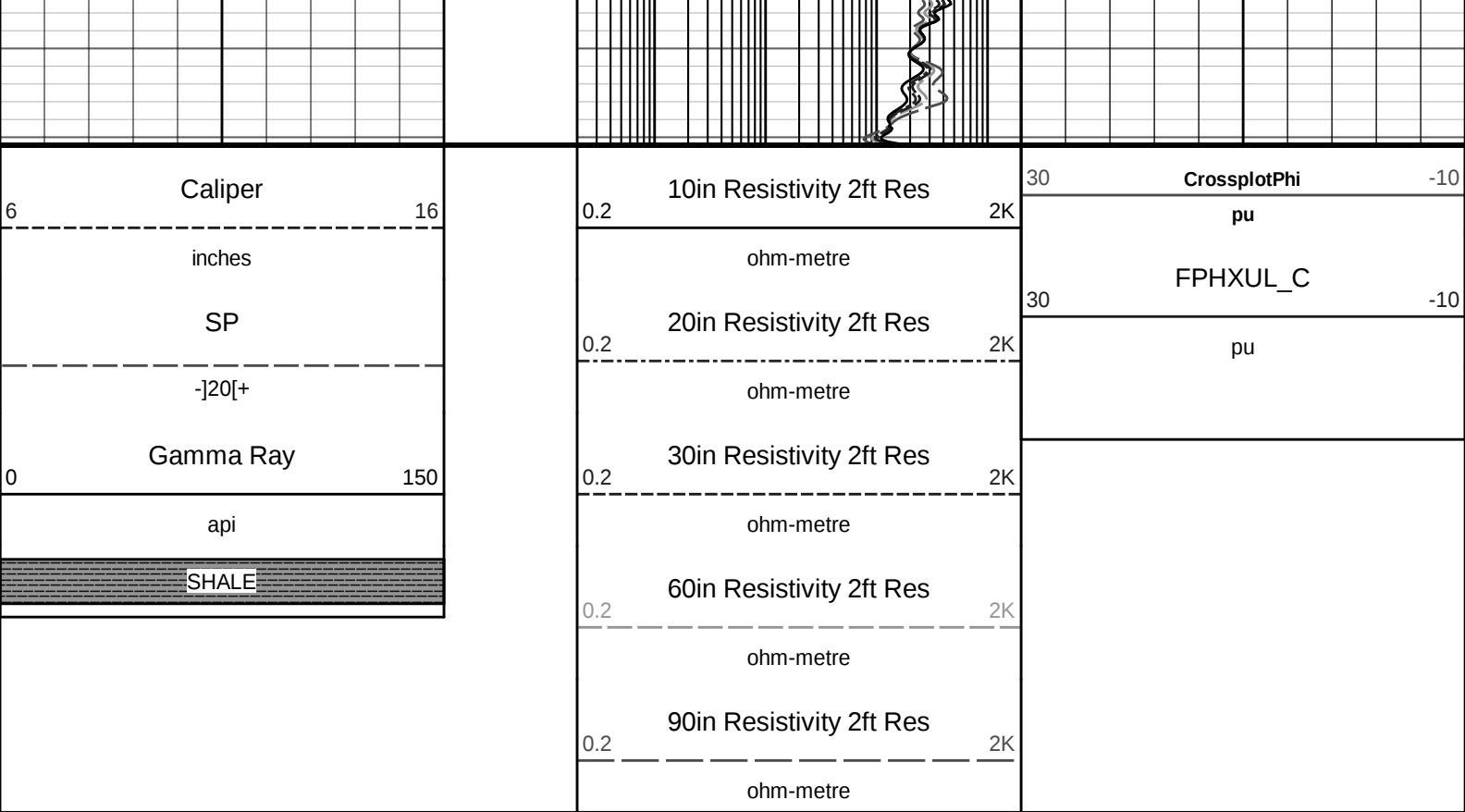
5100

5150

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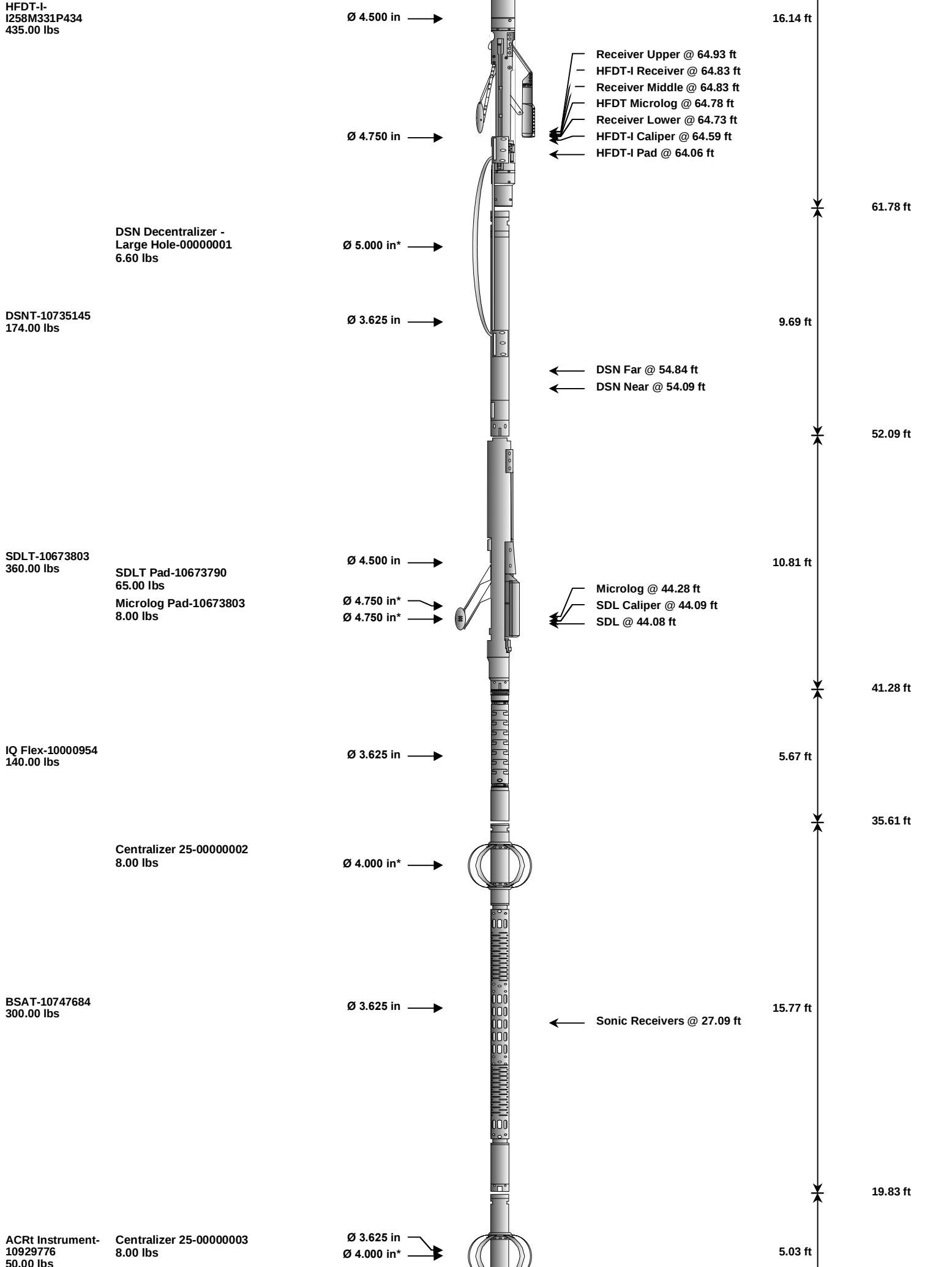


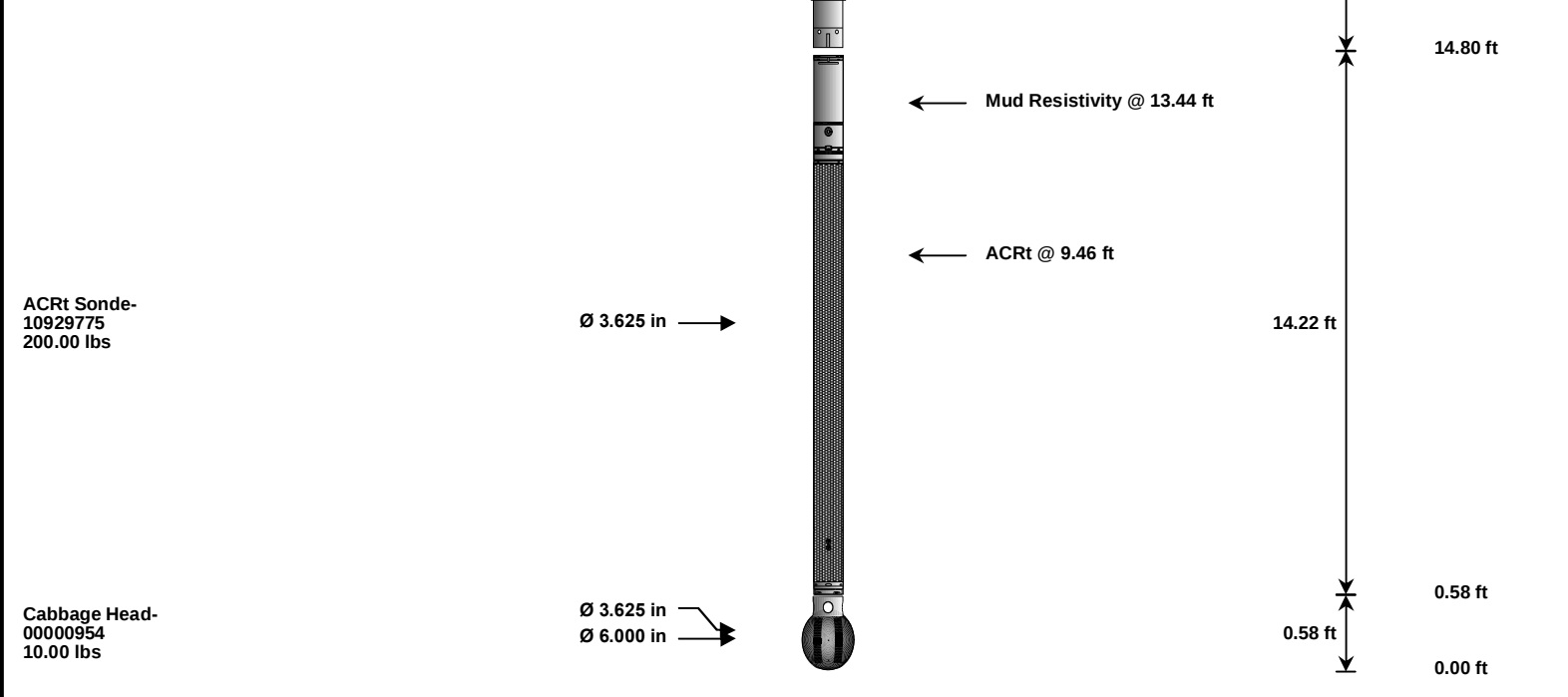


HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
RWCH-11435227 135.00 lbs		Ø 3.625 in		← Load Cell @ 92.74 ft ← BH Temperature @ 92.17 ft	6.25 ft	96.42 ft
SP Sub-12345678 60.00 lbs		Ø 3.625 in		← SP @ 88.39 ft	3.74 ft	90.17 ft
GTET-10748374 165.00 lbs		Ø 3.625 in		← GammaRay @ 80.37 ft	8.52 ft	86.43 ft
						77.91 ft





Mnemonic		Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head		11435227	135.00	6.25	90.17	300.00
SP	SP Sub		12345678	60.00	3.74	86.43	300.00
GTET	Gamma Telemetry Tool		10748374	165.00	8.52	77.91	60.00
HFDT	High Frequency Dielectric Tool		I258M331P434	435.00	16.14	61.78	30.00
DSNT	Dual Spaced Neutron		10735145	174.00	9.69	52.09	60.00
DCNT	DSN Decentralizer Large Hole		00000001	6.60	9.42	*	55.42 300.00
SDLT	Spectral Density Tool		10673803	360.00	10.81	41.28	60.00
MICP	Microlog Pad		10673803	8.00	1.00	*	43.78 60.00
SDLP	Density Insite Pad		10673790	65.00	2.55	*	43.49 60.00
IQF	IQ Flex tool		10000954	140.00	5.67	35.61	300.00
BSAT	Borehole Sonic Array Tool		10747684	300.00	15.77	19.83	60.00
OBCEN	Centralizer - 25 in. Overbody		00000002	8.00	2.08	*	32.75 300.00
ACRt	Array Compensated True Resistivity Instrument Section		10929776	50.00	5.03	14.80	300.00
OBCEN	Centralizer - 25 in. Overbody		00000003	8.00	2.08	*	16.12 300.00
ACRt	Array Compensated True Resistivity Sonde Section		10929775	200.00	14.22	0.58	300.00
CBHD	Cabbage Head		00000954	10.00	0.58	0.00	300.00
Total				2,124.60	96.42		
* Not included in Total Length and Length Accumulation.							
Data: DRUSSEL_E-4\0001 SP-GTET-HFDT-DSN-SDL-FLEX-BSAT-ACRT-CH\IDLE Date: 09-Oct-13 08:49:41							

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION			
Tool Name:	GTET - 10748374	Reference Calibration Date:	02-Aug-13 14:20:06
Engineer:	THOMAS HYDE	Calibration Date:	03-Sep-13 10:36:47
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1

Calibrator Source S/N: TB-185			
Calibrator API Reference:228.00 api			
Equivalent Calibrator API Reference:232.0 api			
Measurement	Measured	Calibrated	Units
Background	44.2	44.4	api
Background + Calibrator	275.0	276.4	api

Calibrator

230.8

232.0

api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION**Tool Name:** GTET - 10748374**Reference Calibration Date:** 03-Sep-13 10:36:47**Engineer:** J. BOLLUM**Calibration Date:** 07-Oct-13 07:57:36**Software Version:** WL INSITE R3.8.4 (Build 5)**Calibration Version:** 1

Calibrator Source S/N: TB-185

Calibrator API Reference:228.00 api

Equivalent Calibrator API Reference:232.0 api

Field Verification	Shop	Field	Units
Background	44.4	35.1	api
Background + Calibrator	276.4	270.6	api
Calibrator	232.0	235.5	api

Shop	Field	Difference	Tolerance
232.0	235.5	-3.5	+/- 9.00

INSITE HIGH FREQUENCY DIELECTRIC SHOP CALIBRATION**Tool Name:** HFDT-I - I258M331P434**Reference Calibration Date:** 15-May-13 09:25:53**Engineer:** PETER DIMPFL**Calibration Date:** 15-May-13 09:28:36**Software Version:** WL INSITE R3.8.0 (Build 2)**Calibration Version:** 1**RATIO - AIR HANG ELECTRONICS CALIBRATION**

Measurement	Previous Value	New Value	Control Limit
UM_TXU	1.4469	1.4450	None
ML_TXU	1.7476	1.7433	None
UL_TXU	2.5064	2.4991	None
UM_TXL	1.5181	1.5158	None
ML_TXL	1.3208	1.3188	None
UL_TXL	1.9876	1.9832	None

DPHASE - AIR HANG ELECTRONICS CALIBRATION

Measurement	Previous Value	New Value	Control Limit
UM_TXU	74.2391	74.3495	None
ML_TXU	81.8475	81.9291	None
UL_TXU	156.0866	156.2785	None
UM_TXL	-79.6795	-79.8034	None
ML_TXL	-86.2455	-86.3346	None
UL_TXL	190.9171	191.0047	None

RATIO - VERIFYING with MANDREL AIR HANG CALIBRATED CONSTANTS

Measurement	Previous Value	New Value	Control Limit
UM_TXU	1.8305	1.8294	None
ML_TXU	1.8315	1.8284	None
UL_TXU	3.3271	3.3185	None
UM_TXL	1.8321	1.8298	None
ML_TXL	1.8317	1.8287	None
UL_TXL	3.3200	3.3189	None
UM_COM	1.8425	1.8405	1.3613 - 2.2688
ML_COM	1.7979	1.7958	1.3613 - 2.2688
UL_COM	3.2950	3.2905	2.4698 - 4.1163

DPHASE - VERIFYING with MANDREL AIR HANG CALIBRATED CONSTANTS

Measurement	Previous Value	New Value	Control Limit
UM_TXU	29.4419	29.5364	None
ML_TXU	29.2014	29.4860	None

ML_TXU	29.3914	29.4889	None
UL_TXU	58.9057	59.0116	None
UM_TXL	30.7832	30.7154	None
ML_TXL	30.8745	30.7568	None
UL_TXL	58.6066	58.6164	None
UM_COM	30.3732	30.3880	22.5000 - 37.5000
ML_COM	29.8724	29.8598	22.5000 - 37.5000
UL_COM	58.7561	58.8140	44.7750 - 74.6250

CONTACT TEMPERATURE TOOL SHOP CALIBRATION			
Tool Name:	HFDT-I - I258M331P434	Reference Calibration Date:	07-Jan-13 11:50:19
Engineer:	PETER DIMPFL	Calibration Date:	15-May-13 10:54:04
Software Version:	WL INSITE R3.8.0 (Build 2)	Calibration Version:	1

CALIBRATION COEFFICIENT SUMMARY			
	Measured Temp	Calibrated Temp	Units
Low Value	79.20	76.00	degF
Middle Value	128.95	130.00	degF
High Value	217.98	219.00	degF
.			
		Reference Temp	Units
Calibration Point Low Ref		76.00	degF
Calibration Point Middle Ref		130.00	degF
Calibration Point High Ref		219.00	degF
		Calibration Coefficient	
Pwr2		-0.00	
Gain		1.17	
Offset		-5.59	

DENSITY CALIPER SHOP CALIBRATION			
Tool Name:	HFDT-I - I258M331P434	Reference Calibration Date:	15-May-13 09:10:25
Engineer:	PETER DIMPFL	Calibration Date:	15-May-13 09:14:35
Software Version:	WL INSITE R3.8.0 (Build 2)	Calibration Version:	1
Host Tool Name:	--- - ---		

CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-1228.55	-1355.52	-7000.00 - -1000.00
Pad Gain	0.0003774	0.0003860	0.000200 - 0.000600
Arm Offset	-2575.41	-2606.48	-5000.00 - 3000.00
Arm Gain	0.0005237	0.0005467	0.000300 - 0.000700
Arm Power	-0.000003120	-0.000004769	-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)	3.71	3.75	0.04	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.49	6.50	0.01	+/- 0.20

Medium Ring (in)		8.20	8.25	0.05	+/- 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		

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-10748374						
Gamma Ray Calibrator	232.0	235.5	-----	-3.5	+/- 9.00	api
HFDT-I-I258M331P434						
Pad Extension	3.75	-----	-----	0.00	+/-0.20	in
Ring Diameter	8.25	-----	-----	0.00	+/-0.20	in

Data: DRUSSEL_E-4I0001 SP-GTET-HFDT-DSN-SDL-FLEX-BSAT-ACRT-CH\001 09-Oct-13 08:57 Dn @1637.5f				Date: 09-Oct-13 10:22:51		
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HALLIBURTON						
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	10.000	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	2.000	ohmm
	SHARED	TRM	Temperature of Mud	75.0	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	5.500	in
	SHARED	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	5293.00	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	
	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	
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	
HFDT-I	HFOK	Do HFDT Calculations?	Yes	
HFDT-I	RMF	Mud Filtrate Resistivity	0.70	ohmm
HFDT-I	RMFT	Temperature of Mud Filtrate	132.00	degF
HFDT-I	MDIL	Matrix Dielectric Constant	8.000	
HFDT-I	HRTC	HFDT Insite Temperature Correction Source	PADTEMP1	
HFDT-I	CLOK	Process Caliper Outputs?	Yes	
HFDT-I	SAO	SDL Backup Arm Offset	0.00	in
HFDT-I	PAO	Pad Arm Offset	0.00	in
HFDT-I	MLOK	Process MicroLog Outputs?	Yes	
HFDT-I	MINO	Microlog Lateral Offset	0.00	ohmm
HFDT-I	MNOO	Microlog Normal Offset	0.00	ohmm
DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Limestone	
DSNT	DSNO	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	2.710	g/cc
SDLT Pad	DFL	Formation Density Fluid	1.000	g/cc
Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
BSAT	MBOK	Compute BCAS Results?	Yes	
BSAT	FLLO	Frequency Filter Low Pass Value?	5000	Hz
BSAT	FLHI	Frequency Filter High Pass Value?	27000	Hz
BSAT	DTFL	Delta -T Fluid	189.00	uspf
BSAT	DTMT	Delta -T Matrix Type	User define	
BSAT	DTMA	Delta -T Matrix	47.60	uspf
BSAT	DTSH	Delta -T Shale	100.00	uspf
BSAT	SPEQ	Acoustic Porosity Equation	Wyllie	
ACRt Sonde	RTOK	Process ACRT?	Yes	
ACRt Sonde	MNSO	Minimum Tool Standoff	1.50	in
ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Upr	
ACRt Sonde	TPOS	Tool Position	Free Hanging	
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	
ACRt Sonde	MRFX	Fixed mud resistivity	2000	ohmm

BOTTOM

INPUTS, DELAYS AND FILTERS TABLE

Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	
RWCH				
DHTN	DownholeTension	0.00	BLK	0.000
SP Sub				
PLTC	Plot Control Mask	88.39	NO	
SP	Spontaneous Potential	88.39	BLK	1.250
SPR	Raw Spontaneous Potential	88.39	NO	
SPO	Spontaneous Potential Offset	88.39	NO	
GTET				
TPUL	Tension Pull	80.37	NO	
GR	Natural Gamma Ray API	80.37	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	80.37	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	80.37	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
HFDT-I				
TPUL	Tension Pull	64.83	NO	
IUXU	HFDT Insite In-phase Component of Upper Receiver - TXUon TXLoff	64.83	NO	
QUXU	HFDT Insite Quadrature Component of Upper Receiver - TXUon TXLof	64.83	NO	
IMXU	HFDT Insite In-phase Component of Middle Receiver TXUon TXLoff	64.83	NO	
QMXU	HFDT Insite Quadrature Component of Middle Receiver TXUon TXLof	64.83	NO	
ILXU	HFDT Insite In-phase Component of Lower Receiver TXUon TXLoff	64.83	NO	
QLXU	HFDT Insite Quadrature Component of Lower Receiver TXUon TXLoff	64.83	NO	
IUXL	HFDT Insite In-phase Component of Upper Receiver TXUoff TXLon	64.83	NO	
QUXL	HFDT Insite Quadrature Component of Upper Receiver TXUoff TXLon	64.83	NO	
IMXL	HFDT Insite In-phase Component of Middle Receiver TXUoff TXLon	64.83	NO	
QMXL	HFDT Insite Quadrature Component of Middle Receiver TXUoff TXLo	64.83	NO	
ILXL	HFDT Insite In-phase Component of Lower Receiver TXUoff TXLon	64.83	NO	
QLXL	HFDT Insite Quadrature Component of Lower Receiver TXUoff TXLon	64.83	NO	
TEX1	HFDTInsite External Pad Temperature Measurement 1	64.06	NO	
TEX2	HFDTInsite External Pad Temperature Measurement 2	64.06	NO	
STAT	HFDT Insite Pad Status Word	64.83	NO	
TPUL	Tension Pull	64.59	NO	
PCAL	Pad Caliper	64.59	TRI	0.250
ACAL	Arm Caliper	64.59	TRI	0.250
TPUL	Tension Pull	64.78	NO	
MINV	Microlog Lateral	64.78	BLK	0.750

MNOR	Microlog Normal	64.78	BLK	0.750
DSNT				
TPUL	Tension Pull	53.99	NO	
RNDS	Near Detector Telemetry Counts	54.09	BLK	1.417
RFDS	Far Detector Telemetry Counts	54.84	TRI	0.583
DNTT	DSN Tool Temperature	54.09	NO	
DSNS	DSN Tool Status	53.99	NO	
ERND	Near Detector Telemetry Counts EVR	54.09	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	54.84	BLK	0.000
ENTM	DSN Tool Temperature EVR	54.09	NO	
SDLT				
TPUL	Tension Pull	44.09	NO	
PCAL	Pad Caliper	44.09	TRI	0.250
ACAL	Arm Caliper	44.09	TRI	0.250
BSAT				
TPUL	Tension Pull	27.09	NO	
STAT	Status	27.09	NO	
DLYT	Delay Time	27.09	NO	
SI	Sample Interval	27.09	NO	
TXRX	Raw Telemetry 10 Receivers	27.09	NO	
FRMC	Tool Frame Count	27.09	NO	
GMOD	Gain processing mode	19.83	NO	
ACRt Sonde				
TPUL	Tension Pull	2.97	NO	
F1R1	ACRT 12KHz - 80in R value	9.22	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	9.22	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.72	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.72	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	5.22	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	5.22	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	4.22	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	4.22	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	3.72	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.72	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.47	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	3.47	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	9.22	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	9.22	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.72	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.72	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	5.22	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	5.22	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	4.22	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	4.22	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.72	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.72	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.47	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.47	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	9.22	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	9.22	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.72	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.72	BLK	0.000

F3R3	ACRT 72KHz - 29in R value	5.22	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	5.22	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	4.22	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	4.22	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.72	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.72	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.47	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.47	BLK	0.000
RMUD	Mud Resistivity	12.76	BLK	0.000
F1RT	Transmitter Current Raw 12K X Receiver	2.97	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.97	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.97	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.97	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	2.97	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.97	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.97	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.97	BLK	0.000
ITMP	Instrument Temperature	2.97	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.97	NO	
TIDV	Instrument Temperature Derivative	2.97	NO	
TUDV	Upper Temperature Derivative	2.97	NO	
TLDV	Lower Temperature Derivative	2.97	NO	
TRBD	Receiver Board Temperature	2.97	NO	
SDLT Pad				
TPUL	Tension Pull	44.08	NO	
NAB	Near Above	43.90	BLK	0.920
NHI	Near Cesium High	43.90	BLK	0.920
NLO	Near Cesium Low	43.90	BLK	0.920
NVA	Near Valley	43.90	BLK	0.920
NBA	Near Barite	43.90	BLK	0.920
NDE	Near Density	43.90	BLK	0.920
NPK	Near Peak	43.90	BLK	0.920
NLI	Near Lithology	43.90	BLK	0.920
NBAU	Near Barite Unfiltered	43.90	BLK	0.250
NLIU	Near Lithology Unfiltered	43.90	BLK	0.250
FAB	Far Above	44.26	BLK	0.250
FHI	Far Cesium High	44.26	BLK	0.250
FLO	Far Cesium Low	44.26	BLK	0.250
FVA	Far Valley	44.26	BLK	0.250
FBA	Far Barite	44.26	BLK	0.250
FDE	Far Density	44.26	BLK	0.250
FPK	Far Peak	44.26	BLK	0.250
FLI	Far Lithology	44.26	BLK	0.250
PTMP	Pad Temperature	44.09	BLK	0.920
NHV	Near Detector High Voltage	43.49	NO	
FHV	Far Detector High Voltage	43.49	NO	
ITMP	Instrument Temperature	43.49	NO	
DDHV	Detector High Voltage	43.49	NO	
Microlog Pad				
TPUL	Tension Pull	44.28	NO	
MINV	Microlog Lateral	44.28	BLK	0.750
MNOR	Microlog Normal	44.28	BLK	0.750
Data: DRUSSEL_E-4\0001 SP-GTET-HFDT-DSN-SDL-FLEX-BSAT-ACRT-CH\IDLE			Date: 09-Oct-13 08:50:08	

COMPANY	OXY USA INC.		
WELL	DRUSSEL E-4		
FIELD	HUGOTON GAS AREA		
COUNTY	FINNEY	STATE	KANSAS
HALLIBURTON		HIGH FREQUENCY DIELECTRIC LOG	