

HALLIBURTON

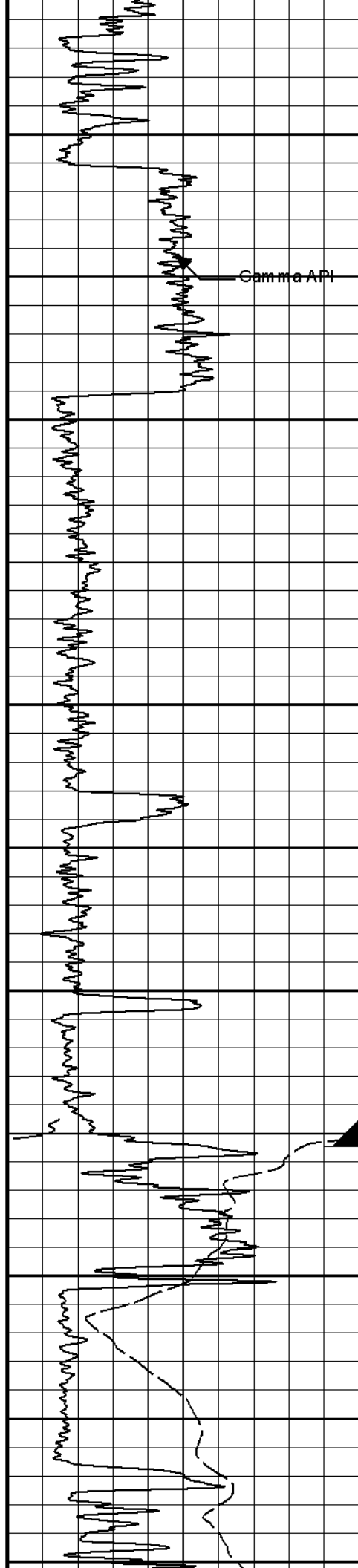
ARRAY COMPENSATED RESISTIVITY SPECTRAL DENSITY DUAL SPACED NEUTRON MICROLOG

COMPANY				STORM CAT ENERGY (USA) OPERATING CORP.									
WELL				BALLARD 1-18H									
FIELD				B-43									
COUNTY				VAN BUREN									
STATE				ARKANSAS									
Permanent Datum		GROUND LEVEL		Sect. 18		Twp. 11N		Rge. 16W		Elev. 1692.0 ft		Elev. 1697.0 ft	
Log measured from		KELLY BUSHING		KELLY BUSHING				15.0 ft above perm. Datum		D.F.		1696.0 ft	
Drilling measured from		KELLY BUSHING								G.L.		1692.0 ft	
Date		23-Mar-08 08:15											
Run No.		1											
Depth - Driller		981.0 ft											
Depth - Logger		985.0 ft											
Bottom - Logged Interval		983											
Top - Logged Interval		655											
Casing - Driller		9.625 in		@ 651.0 ft									
Casing - Logger		655.0 ft											
Bit Size		8.875 in											
Type Fluid in Hole		WBM											
Density		Viscosity											
PH		Fluid Loss											
Source of Sample													
Rm @ Meas. Temperature		1.54 ohmm		@ 56.00 degF									
Rmf @ Meas. Temperature		1.32 ohmm		@ 56.00 degF									
Rmc @ Meas. Temperature		1.81 ohmm		@ 56.00 degF									
Source Rmf		CALC		CALC									
Rm @ BHT		1.05 ohmm		@ 85.0 degF									
Time Since Circulation		3.0 hr											
Time on Bottom		23-Mar-08 10:00											
Max. Rec. Temperature		85.0 degF		@ 980.0 ft									
Equipment		10975786		FORT SMITH									
Recorded By		SCHICKEDANZ											
Witnessed By		MR MAJORS											

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Service Ticket No.: 5768794				API Serial No.: 03-141-10356				PGM Version: WL INSITE R2.0 (Build 22)							
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 816 708		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.		10971172		Serial No.				Serial No.		378_477_870		Serial No.		10951378	
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.		T-102		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.		20784B		Serial No.		DSN-373	
Distance to Source		11'		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	TD	CSG	REC	0	150				30%	-10%	2.71	30%	-10%	LIME		
DIRECTIONAL INFORMATION																
Maximum Deviation								@	KOP							@
Remarks: AHV PLOT CALCULATED FOR 5.5-INCH CASING																
NO MUD INFORMATION AVAILABLE																



300

400

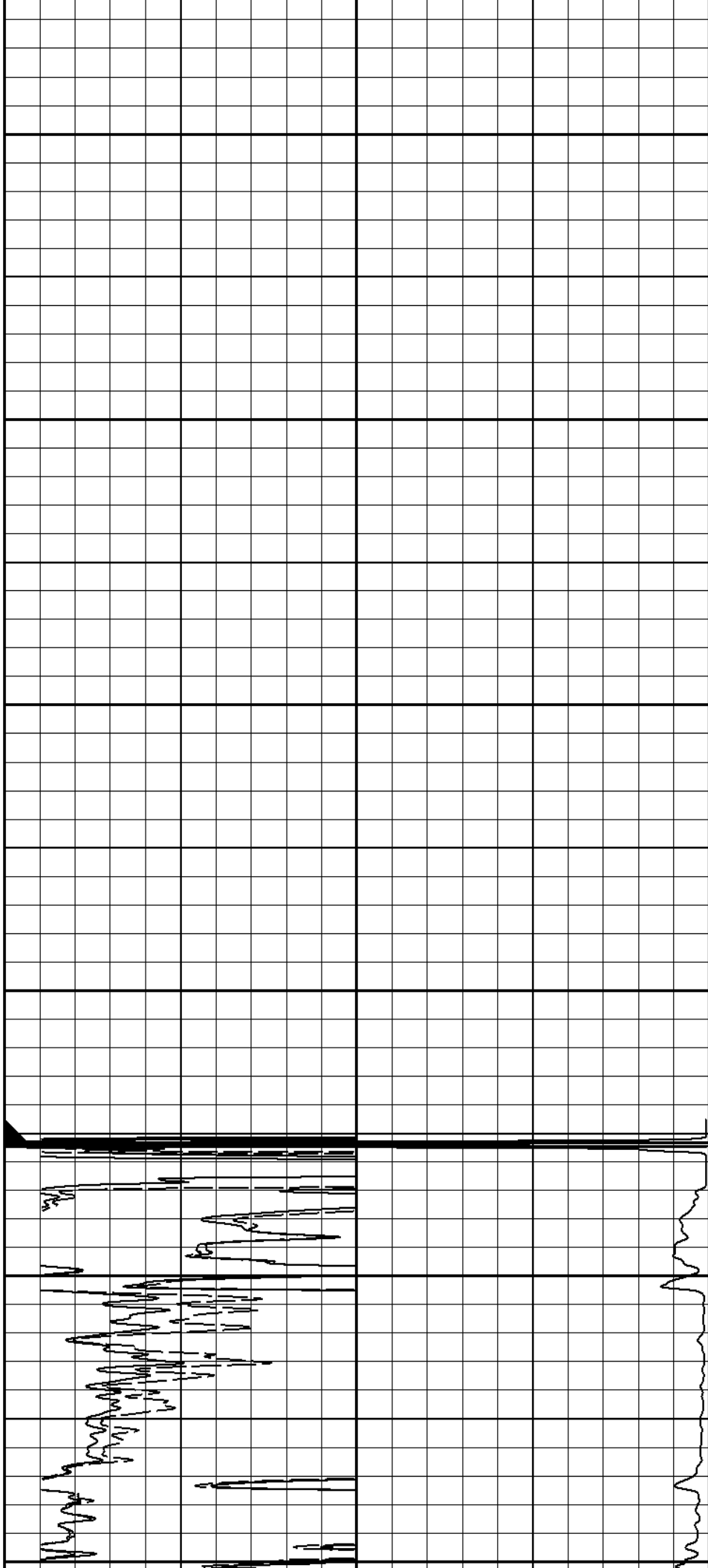
500

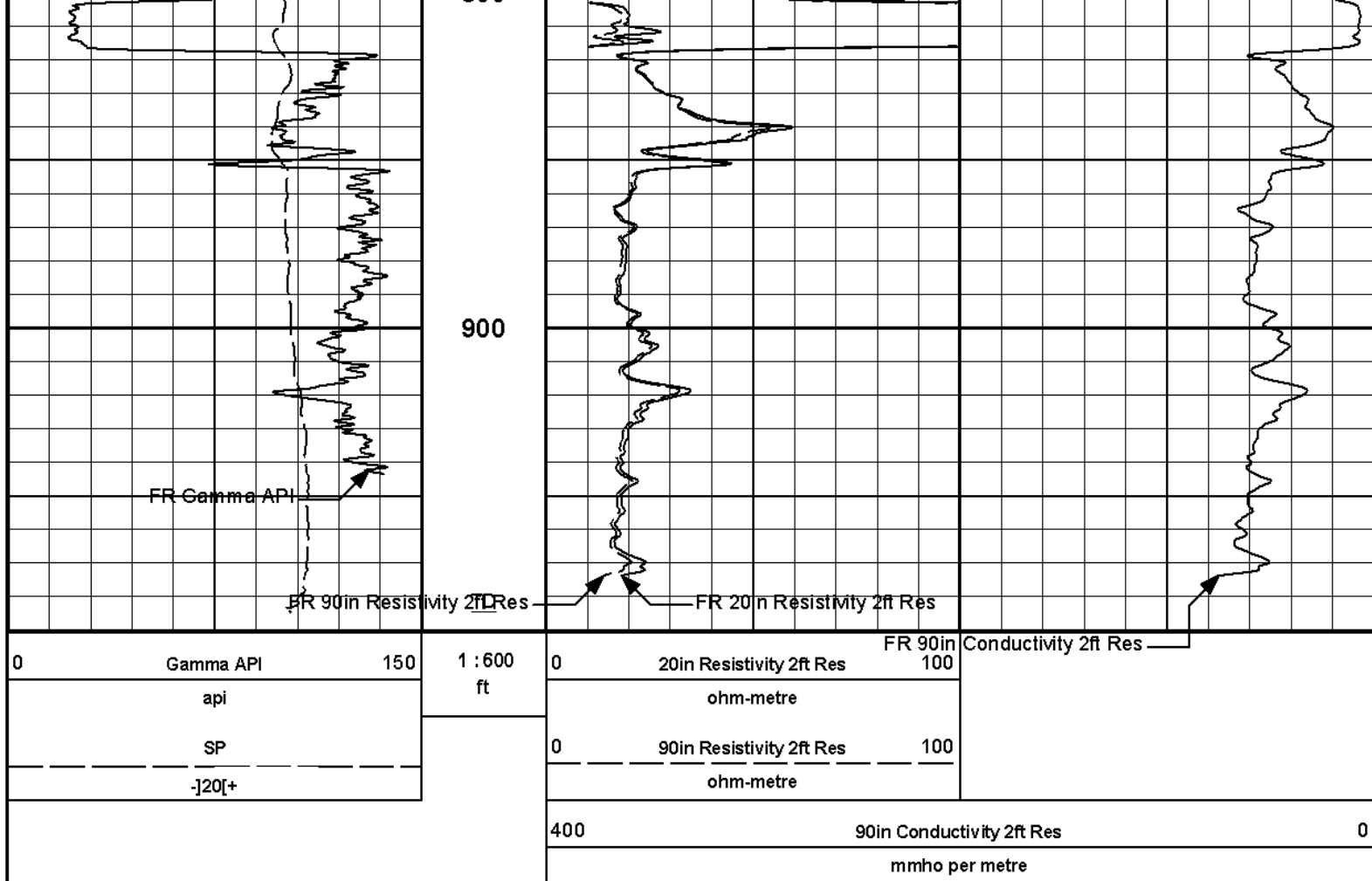
600

CSG

700

800





HALLIBURTON

Plot Time: 23-Mar-08 11:13:00
Plot Range: 100 ft to 990 ft
Data: STORMCAT_BALARD\Well Based\DAQ-0001-003.01\
Plot File: \\LOCAL-1\STORMCAT_BALARD\0001 GTET-DSNT-SDLT-ACRT\COMBO\ACRT_2_main

2 INCH MAIN LOG

HALLIBURTON

Plot Time: 23-Mar-08 11:13:00
Plot Range: 645 ft to 982 ft
Data: STORMCAT_BALARD\Well Based\DAQ-0001-003.01\
Plot File: \\COMBO\SEECO_TRIPLE_ML_IQ

5 INCH MAIN LOG

			0 MNOR 20	0.2	30in Resistivity 2ft Res	2000				
			ohmm		ohm-metre					
15K	Tension	0	0 MINV 20	0.2	60in Resistivity 2ft Res	2000	2	Bulk Density		3
			ohmm		ohmm		g/cc			
6	Caliper	16	AHVT	0.2	10in Resistivity 2ft Res	2000	30	DensityPorosity		-10
					ohmm		percent			
0	Gamma API	150	BHVT	0.2	20in Resistivity 2ft Res	2000	30	Neutron Porosity		-10
					ohmm		percent			
			1 : 240	0.2	90in Resistivity 2ft Res	2000	0	Pe	10	-0.25 DensityCorr 0.25
					ohmm		barns/electron		gram per cc	

CSG

700

800

SP Tension

Gamma API

Caliper

Microlog Lateral

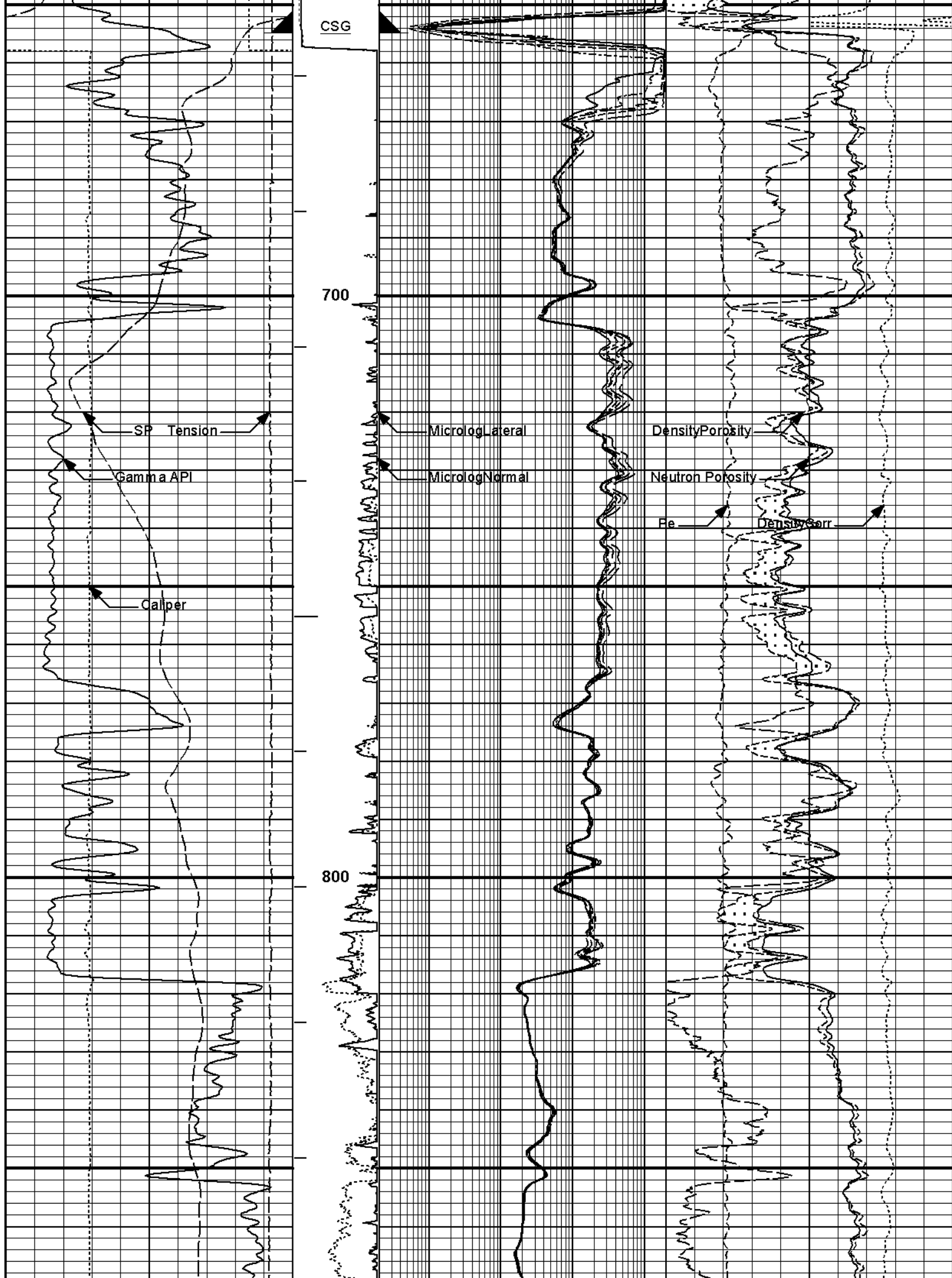
Microlog Normal

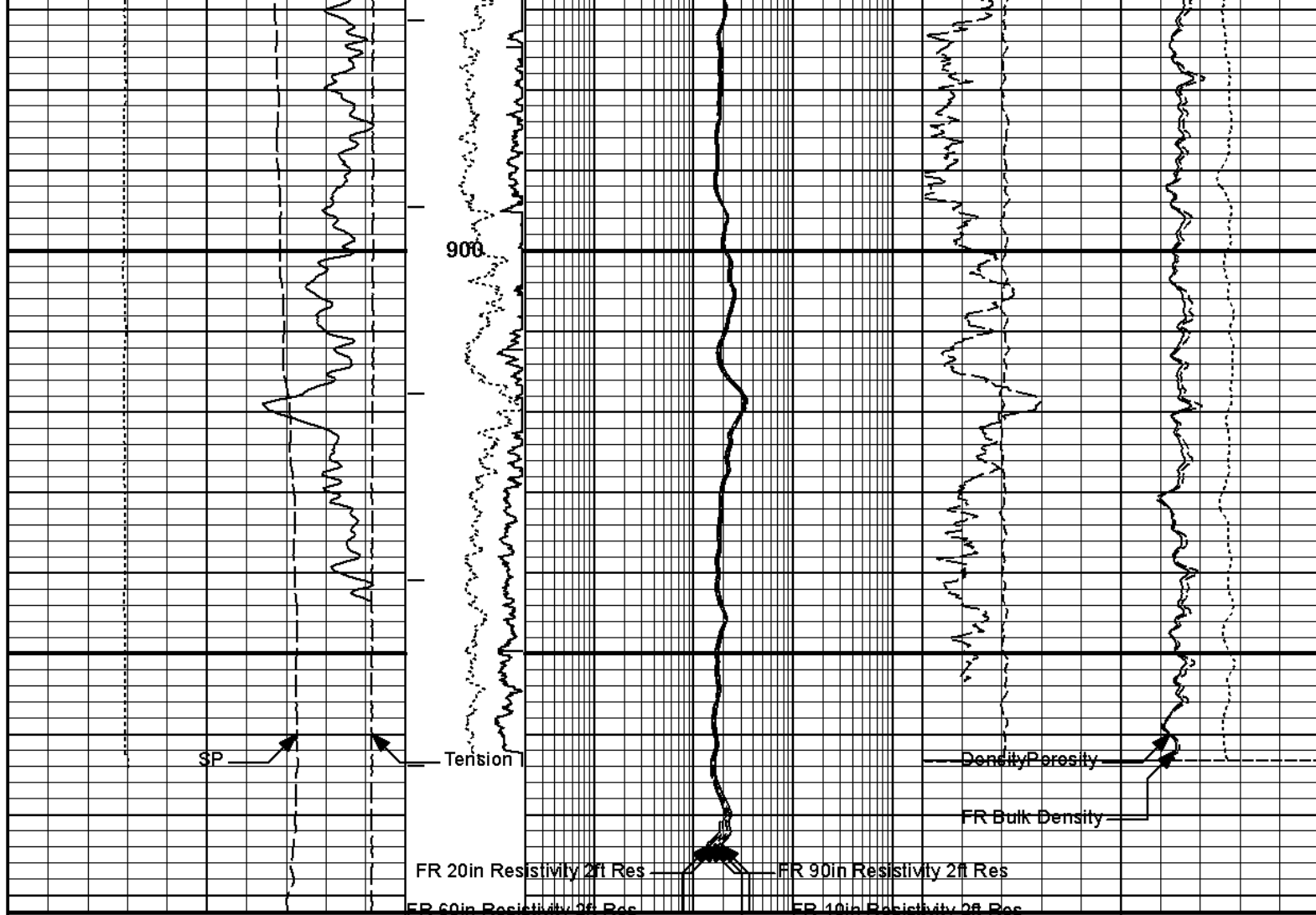
Density Porosity

Neutron Porosity

Fe

Density Corr





SP	1 : 240 ft	0.2	90in Resistivity 2ft Res	2000	Pe	10	-0.25 DensityCorr	0.25
-]20[+			ohmm		barns/electron		gram per cc	
0 Gamma API	150	BHVT	0.2	20in Resistivity 2ft Res	2000	30	Neutron Porosity	-10
api				ohmm			percent	
6 Caliper	16	AHVT	0.2	10in Resistivity 2ft Res	2000	30	DensityPorosity	-10
inches				ohmm			percent	
15K Tension	0 0	MINV 20	0.2	60in Resistivity 2ft Res	2000	2	Bulk Density	3
pounds		ohmm		ohmm			g/cc	
	0 MNOR 20	0.2	30in Resistivity 2ft Res	2000				
	ohmm		ohm-metre					

HALLIBURTON

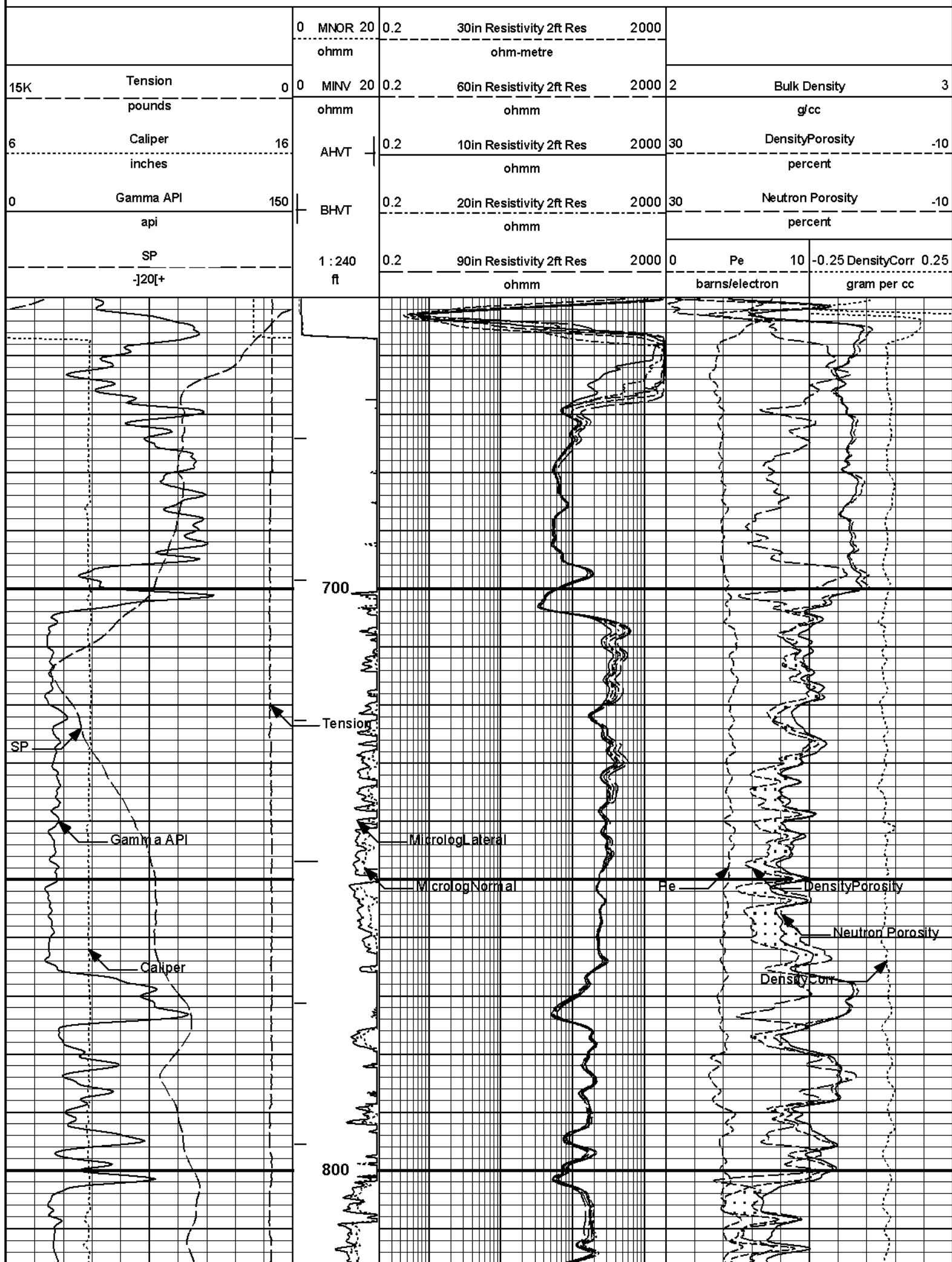
Plot Time: 23-Mar-08 11:13:05
 Plot Range: 645 ft to 982 ft
 Data: STORMCAT_BALARD\Well Based\DAQ-0001-003.011
 Plot File: \\COMBO\SEECO_TRIPLE_ML_IQ

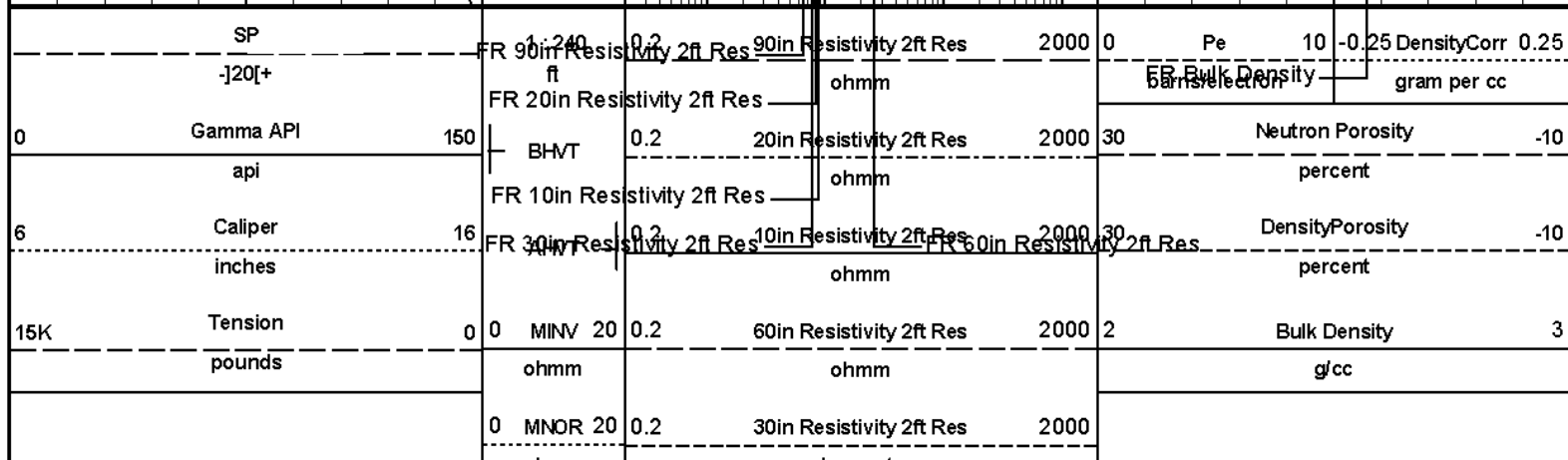
5 INCH MAIN LOG

HALLIBURTON

Plot Time: 23-Mar-08 11:13:06
 Plot Range: 650 ft to 988 ft
 Data: STORMCAT_BALARD\Well Based\DAQ-0001-0021
 Plot File: \\COMBO\SEECO_TRIPLE_ML_IQ

REPEAT SECTION





REPEAT SECTION

HALLIBURTON

PARAMETERS REPORT

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	DSNT	DNOK	Process DSN?	No	
	SDLT	DNOK	Process Density?	No	
	SDLT	CLOK	Process Caliper Outputs?	No	
	SDLT	MLOK	Process MicroLog Outputs?	No	
	ACRt	RTOK	Process ACRt?	No	
600.00					
	SHARED	BS	Bit Size	8.875	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDWT	Borehole Fluid Weight	9.500	ppg
	SHARED	RMUD	Mud Resistivity	2.000	ohmm
	SHARED	TRM	Temperature of Mud	75.0	degF
	SHARED	OBM	Oil Based Mud System?	No	
	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	980.00	ft
	SHARED	BHT	Bottom Hole Temperature	85.0	degF
	GTET	GROK	Process Gamma Ray?	Yes	
	GTET	GRSO	Gamma Tool Standoff	0.000	in
	GTET	GEOK	Process Gamma Ray EVR?	No	
	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		Logging Horizontal Water Tank?	No	
	SDLT	DNOK	Process Density?	Yes	
	SDLT	DNOK	Process Density EVR?	No	
	SDLT	AD	Is Hole Air Drilled?	No	
	SDLT	CB	Use Calibration Blocks?	No	
	SDLT	SPVT	SDLT Pad Temperature Valid?	Yes	
	SDLT	DTWN	Disable temperature warning	No	
	SDLT	MDTP	Weighted Mud Correction Type?	None	
	SDLT	DMA	Formation Density Matrix	2.710	g/cc
	SDLT	DFL	Formation Density Fluid	1.000	g/cc
	SDLT	CLOK	Process Caliper Outputs?	Yes	
	SDLT	MLOK	Process MicroLog Outputs?	Yes	

SDLT	MEOR	Process MicroLog Outputs?	Yes	
ACRt	RTOK	Process ACRt?	Yes	
ACRt	CIND	Casing Indicator Enabled?	Yes	
ACRt	RECE	Relative Caliper Error	0	%
ACRt	MNSO	Minimum Tool Standoff	1.50	in
ACRt	RMC	Use RM Calculated for BHC?	No	
ACRt	LTNM	Acrt Lateral Normalization	None	
ACRt	UTC	Use Temperature Correction	Yes	
ACRt	TCS1	Temperature Correction Source	FP Lwr & FP Up	
ACRt	TPOS	Tool Position	Standoff	
ACRt	BHCM	Borehole Compensation Type	Conventional	
ACRt	RMIN	Minimum Resistivity for MAP	0.20	ohmm
ACRt	RMIN	Maximum Resistivity for MAP	200.00	ohmm

BOTTOM

Data: STORMCAT_BALARDI0001 GTET-DSNT-SDLT-ACRTIDLE

Date: 23-Mar-08 09:12:11

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	GTET - 10971172	Reference Calibration Date:	04-Jan-08 10:23:34
Engineer:	Sanders	Calibration Date:	02-Feb-08 02:06:27
Software Version:	WL INSITE R2.0 (Build 22)	Calibration Version:	1

Calibrator Source S/N: 79

Calibrator API Reference:215.00 api

Measurement	Measured	Calibrated	Units
Background	32.7	35.3	api
Background + Calibrator	231.8	250.3	api
Calibrator	217.6	215.0	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	GTET - 10971172	Reference Calibration Date:	02-Feb-08 02:06:27
Engineer:	Sanders	Calibration Date:	02-Feb-08 02:11:41
Software Version:	WL INSITE R2.0 (Build 22)	Calibration Version:	1

Calibrator Source S/N: 79

Calibrator API Reference:215.00 api

Field Verification	Shop	Field	Units
Background	35.3	35.4	api
Background + Calibrator	250.3	249.0	api
Calibrator	215.0	213.7	api

Shop	Field	Difference	Tolerance
215.0	213.7	1.3	+/- 9.0

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name:	DSNT - 10951378	Reference Calibration Date:	04-Jan-08 10:58:30
Engineer:	SCHICKEDANZ	Calibration Date:	13-Feb-08 13:33:26
Software Version:	WL INSITE R2.0 (Build 22)	Calibration Version:	1

Logging Source S/N: 373

Tank Serial Number: FTS

Reference value assigned to Tank: 56.100

Snow Block SN: EL PASO TRUCK SNOW BLOCK

Snow Block S/N: EL PASO TRUCK SNOW BLOCK
Calibration Tank Water Temperature: 54.90 degF
Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS

Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	1.007	1.008	0.900 - 1.100

WATER TANK SUMMARY (Horizontal Water Tank)

Measurement	Current Reading (Previous Coef.)	Calibrated (New Coef.)	Change	Control Limit On Change
Porosity (dec):	0.2354	0.2358	0.0003	+/- 0.0020
Calibrated Ratio:	10.55	10.56	0.011	+/- 0.050

VERIFIER

Measurement	Value	Control Limit
Snow-Block Porosity (dec):	0.0789	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 - 10951378	Reference Calibration Date:	13-Feb-08 13:33:26
Engineer:	SCHICKEDANZ	Calibration Date:	13-Feb-08 13:34:39
Software Version:	WL INSITE R2.0 (Build 22)	Calibration Version:	1

Logging Source S/N: 373
Snow Block S/N: EL PASO TRUCK SNOW BLOCK

NEUTRON FIELD-CHECK SUMMARY

	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (dec):	0.0789	0.0785	-0.0004	+/- 0.0150

PASS/FAIL SUMMARY

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

DUAL SPACED NEUTRON POST CALIBRATION

Tool Name:	DSNT - 10951378	Reference Calibration Date:	13-Feb-08 13:34:39
Engineer:	R WHITLOCK	Calibration Date:	09-Mar-08 12:32:31
Software Version:	WL INSITE R2.0 (Build 22)	Calibration Version:	1

Logging Source S/N: 373
Snow Block S/N: EL PASO TRUCK SNOW BLOCK

NEUTRON POST-CHECK SUMMARY

	Field Value	Post Value	Difference	Control Limit On Change
Snow-Block Porosity (dec):	0.0785	0.0877	0.0092	+/- 0.0150

PASS/FAIL SUMMARY

Block Change Check:	Passed
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Snow Block Stat Check:

Passed

Temperature Check:

Passed

SPECTRAL DENSITY SHOP CALIBRATION**Tool Name:** SDLT - I378_M477_P870**Reference Calibration Date:** 25-Feb-08 13:33:26**Engineer:** RICK WHITLOCK**Calibration Date:** 21-Mar-08 10:55:17**Software Version:** WL INSITE R2.0 (Build 22)**Calibration Version:** 1

Logging Source S/N: 20784B

Aluminum Block S/N: FTS

Density: 2.581g/cc

Magnesium Block S/N: FTS

Density: 1.687g/cc

DENSITY CALIBRATION SUMMARY

Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0301	1.0185	0.90 - 1.10
Near Dens Gain	1.0275	1.0145	0.90 - 1.10
Near Peak Gain	1.0424	1.0226	0.90 - 1.10
Near Lith Gain	1.0555	1.0439	0.90 - 1.10
Far Bar Gain	1.0107	1.0083	0.90 - 1.10
Far Dens Gain	1.0009	0.9995	0.90 - 1.10
Far Peak Gain	0.9997	0.9988	0.90 - 1.10
Far Lith Gain	0.9885	0.9838	0.90 - 1.10
Near Bar Offset	-0.1678	-0.0528	NONE
Near Dens Offset	-0.1527	-0.0279	NONE
Near Peak Offset	-0.2776	-0.0975	NONE
Near Lith Offset	-0.4032	-0.2968	NONE
Far Bar Offset	-0.0537	-0.0222	NONE
Far Dens Offset	0.0378	0.0500	NONE
Far Peak Offset	0.0405	0.0437	NONE
Far Lith Offset	0.1258	0.1504	NONE
Near Bar Background	987.59	985.48	700 - 1450
Near Dens Background	321.82	322.65	230 - 480
Near Peak Background	141.08	140.94	100 - 210
Near Lith Background	173.42	173.69	125 - 260
Far Bar Background	595.89	591.47	450 - 900
Far Dens Background	229.73	231.36	175 - 345
Far Peak Background	90.91	90.84	70 - 140
Far Lith Background	95.84	94.71	75 - 145

CALIBRATION BLOCK SUMMARY

Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.680	1.687	0.007	+/- 0.015
Pe	2.608	2.594	-0.014	+/- 0.150
ALUMINUM				
Density (g/cc)	2.569	2.581	0.012	+/- 0.01500
Pe	3.185	3.170	-0.015	+/- 0.150

TOOL SUMMARY

Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits

QUALITY				
Background	-0.0012	+/- 0.0110	-0.0020	+/- 0.0140
Magnesium Block	-0.0009	+/- 0.0110	-0.0011	+/- 0.0140
Aluminum Block	-0.0011	+/- 0.0110	0.0013	+/- 0.0140
Resolution	9.24	6.00 - 11.50	8.46	6.00 - 11.50
Internal Verifier(B+D+P+L)	1623	1200 - 2700	1008	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 - I378_M477_P870	Reference Calibration Date:	21-Mar-08 10:55:17
Engineer:	RICK WHITLOCK	Calibration Date:	21-Mar-08 11:10:50
Software Version:	WL INSITE R2.0 (Build 22)	Calibration Version:	1

Aluminum Block S/N: FTS	Density: 2.581g/cc
Magnesium Block S/N: FTS	Density: 1.687g/cc
Pad Temperature: 75.2 degF	

DENSITY FIELD CALIBRATION SUMMARY

Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1622.760	1624.177	1.417	16.192
Far (B+D+P+L) cps	1008.381	1008.674	0.293	16.976
Near Resolution	9.24	9.21	-0.030	0.50
Far Resolution	8.48	8.46	0.020	1.00

PASS/FAIL SUMMARY

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

MICRO LOG SHOP CALIBRATION

Tool Name:	SDLT - I378_M477_P870	Reference Calibration Date:	25-Feb-08 14:03:49
Engineer:	RICK WHITLOCK	Calibration Date:	21-Mar-08 10:14:56
Software Version:	WL INSITE R2.0 (Build 22)	Calibration Version:	1

CALIBRATION COEFFICIENT SUMMARY

Measurement	Micro Log Normal		Micro Log Lateral		Units
	Measured	Calibrated	Measured	Calibrated	
Tool Zero	-0.06	-0.11	-0.01	-0.01	ohmm
Calibration Point #1	0.06	0.00	-0.00	0.00	ohmm
Calibration Point #2	20.06	20.00	20.01	20.00	ohmm
Internal Reference	19.94	19.88	20.00	20.00	ohmm

Measurement	Micro Log Normal Tool Value	Micro Log Lateral Tool Value	Units
Tool Zero	0.47	-3.08	V

Calibration Point #1	30.38	-0.12	V
Calibration Point #2	5306.42	6885.33	V
Internal Reference	5275.43	6884.23	V

MICRO LOG FIELD CHECK

Tool Name:	SDLT - I378_M477_P870	Reference Calibration Date:	21-Mar-08 10:14:56
Engineer:	RICK WHITLOCK	Calibration Date:	21-Mar-08 10:15:35
Software Version:	WL INSITE R2.0 (Build 22)	Calibration Version:	1

Measurement	Micro Log Normal		Micro Log Lateral		Units
	Shop	Field	Shop	Field	
Tool Zero	-0.11	-0.11	-0.01	-0.01	ohmm
Internal Reference	19.88	19.88	20.00	20.00	ohmm

Summary

Signal	Shop	Field	Difference	Tolerance
Microlog Normal	19.88	19.88	0.000	+/- 0.80
Microlog Lateral	20.00	20.00	0.000	+/- 0.80

DENSITY CALIPER SHOP CALIBRATION

Tool Name:	SDLT - I378_M477_P870	Reference Calibration Date:	01-Jan-70 00:00:00
Engineer:	RICK WHITLOCK	Calibration Date:	21-Mar-08 10:02:22
Software Version:	WL INSITE R2.0 (Build 22)	Calibration Version:	1

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-1197.41	-1197.41	-7000.00 - -1000.00
Pad Gain	0.0003896	0.0003896	0.000200 - 0.000600
Arm Offset	-1454.60	-1454.60	-5000.00 - 3000.00
Arm Gain	0.0005255	0.0005255	0.000300 - 0.000700
Arm Power	-0.000005746	-0.000005746	-0.000010 - 0.000010

The ring diameter is computed from: $\text{DIAMETER} = \text{PAD EXTENSION} + \text{ARM EXTENSION} + \text{TOOL DIAMETER}$

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	0.0000	+/- 0.200
Medium Ring (in)	3.75	3.75	0.0000	+/- 0.200
RING DIAMETER:				
Small Ring (in)	6.50	6.50	0.0000	+/- 0.200
Medium Ring (in)	8.25	8.25	0.0000	+/- 0.200
Large Ring (in)	15.00	15.00	0.0000	+/- 0.200

PASS/FAIL SUMMARY

Calibration-Coefficients Range Check:	Passed
Ring-Measurement Check:	Passed

PASS/FAIL SUMMARY

Calibration-Coefficients Range Check:	Passed
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SDLT CALIPER FIELD CALIBRATION

Tool Name:	SDLT - I378_M477_P870	Reference Calibration Date:	21-Mar-08 10:02:22
Engineer:	RICK WHITLOCK	Calibration Date:	21-Mar-08 10:04:10
Software Version:	WL INSITE R2.0 (Build 22)	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	8.30	0.05	+/- 0.15

PASS/FAIL SUMMARY

Pad Extension Check:	Passed
Diameter Check:	Passed

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name:	ACRt - I816_S708	Reference Calibration Date:	02-Jan-08 10:51:08
Engineer:	DANIEL SANDERS	Calibration Date:	05-Mar-08 13:47:21
Software Version:	WL INSITE R2.0 (Build 22)	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	0.9391	1.05	0.95	0.9345	1.05	0.95	0.9304	1.05
A2 (50")	0.95	0.9366	1.05	0.95	0.9317	1.05	0.95	0.9278	1.05
A3 (29")	0.95	0.9352	1.05	0.95	0.9325	1.05	0.95	0.9317	1.05
A4 (17")	0.95	0.9980	1.05	0.95	0.9963	1.05	0.95	0.9992	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.9897	1.05	0.95	0.9903	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9862	1.05	0.95	0.9875	1.05

TYPICAL SONDE OFFSET RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	-3	-1.899	-1	-6	-4.723	-2	-6	-5.071	-2
A2 (50")	-6	-4.504	-2	-6	-4.593	-2	-6	-4.619	-2
A3 (29")	-27	-19.324	-9	-9	-5.456	-3	-9	-4.572	-3
A4 (17")	-180	-115.481	-60	-45	-34.980	-15	-39	-26.612	-13
A5 (10")	N/A	N/A	N/A	-150	-102.323	-50	-90	-50.581	-30
A6 (6")	N/A	N/A	N/A	175	324.749	525	90	161.031	270

TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper
12K	0.75	0.8369	1.4
36K	1.0	1.1621	2.4
72K	1.25	1.3141	2.5

R-MUD VERIFICATION

Signal	Lower (ohm-m)	Measured (ohmm)	Upper (ohm-m)
Mud Cell	0.95	1.003	1.05

CALIBRATION SUMMARY

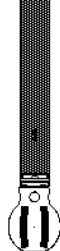
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-10971172						
Gamma Ray Calibrator	215.0	213.7	-----	1.3	+/- 9.0	api
DSNT-10951378						
Snow-Block Porosity	0.0789	0.0785	0.0877	-0.0092	+/- 0.0150	decP
SDLT-I378_M477_P870						
Near(B+D+P+L)	1622.760	1624.177	-----	-1.417	+/- -----	cps
Far(B+D+P+L)	1008.381	1008.674	-----	-0.293	+/- -----	cps
CALIPER RING 1	8.25	8.30	-----	-0.05	+/- xxxxx	in

HALLIBURTON**TOOL STRING DIAGRAM REPORT**

Description	OD/Sensors	Diagram	Sensors	Tool Length	Accumulated Length
CH-PROT01 30.00 lbs	O.D. = 3.63 in			1.92 ft	50.79 ft
					48.87 ft
GTET-10971172 165.00 lbs	O.D. = 3.63 in		GammaRay @ 42.87 ft	8.46 ft	
					40.41 ft
DSNT-10951378 174.00 lbs	O.D. = 3.63 in		DSN Far @ 33.47 ft DSN Near @ 32.72 ft	9.69 ft	
					30.72 ft
SDLT-I378_M477_P870 360.00 lbs	O.D. = 4.50 in O.D. = 4.75 in		SDL Microlog @ 22.91 ft SDL Caliper @ 22.73 ft SDL @ 22.72 ft	10.81 ft	
					19.91 ft
			Mud Resistivity @ 13.52 ft		
ACRT-I816_S708 250.00 lbs	O.D. = 3.63 in		ACRT @ 9.54 ft	19.25 ft	

CBHD-CABBAGE
10.00 lbs

O.D. = 3.63 in
O.D. = 6.00 in



SP @ 1.94 ft

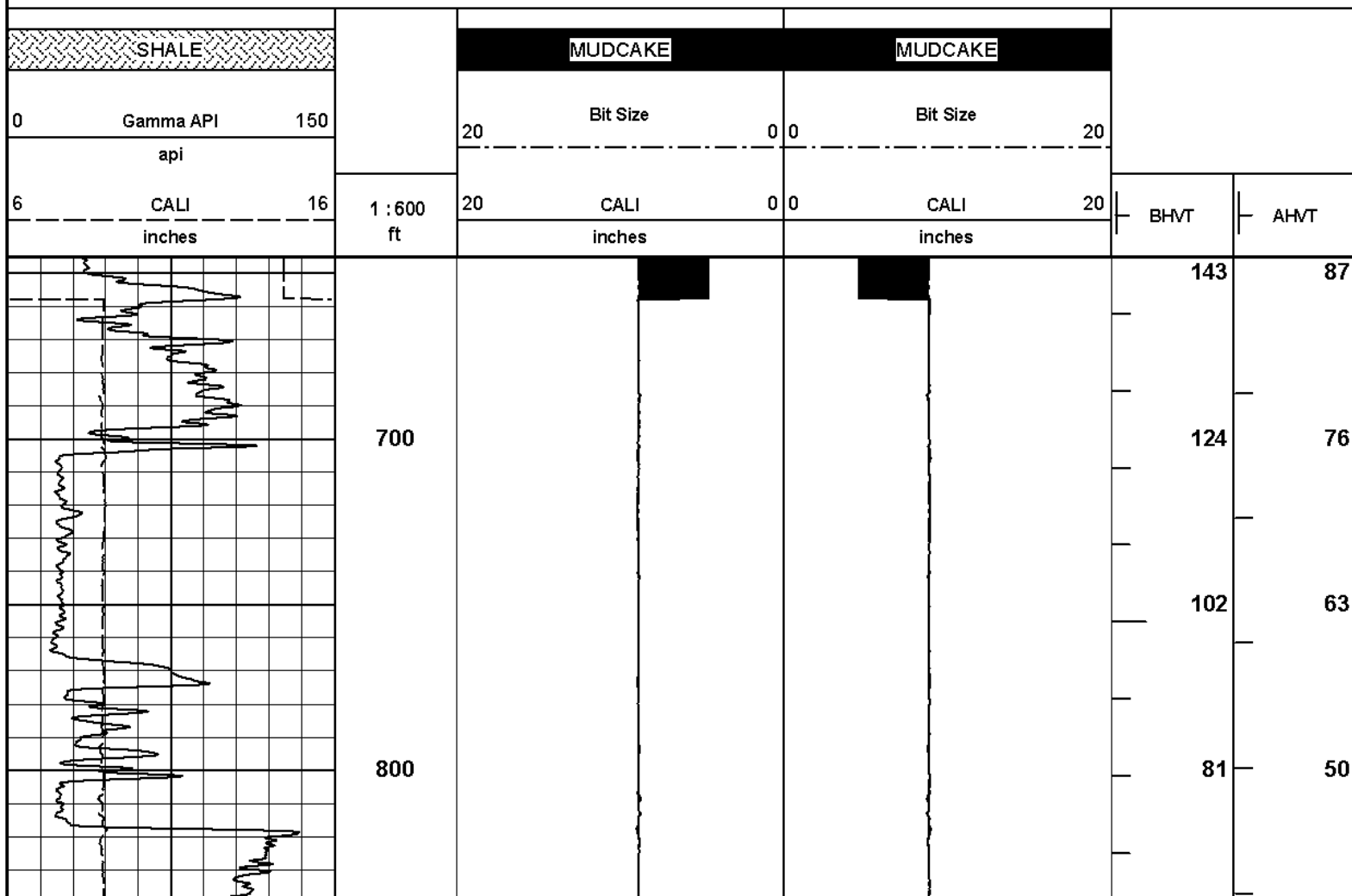
0.66 ft
0.66 ft
0.00 ft

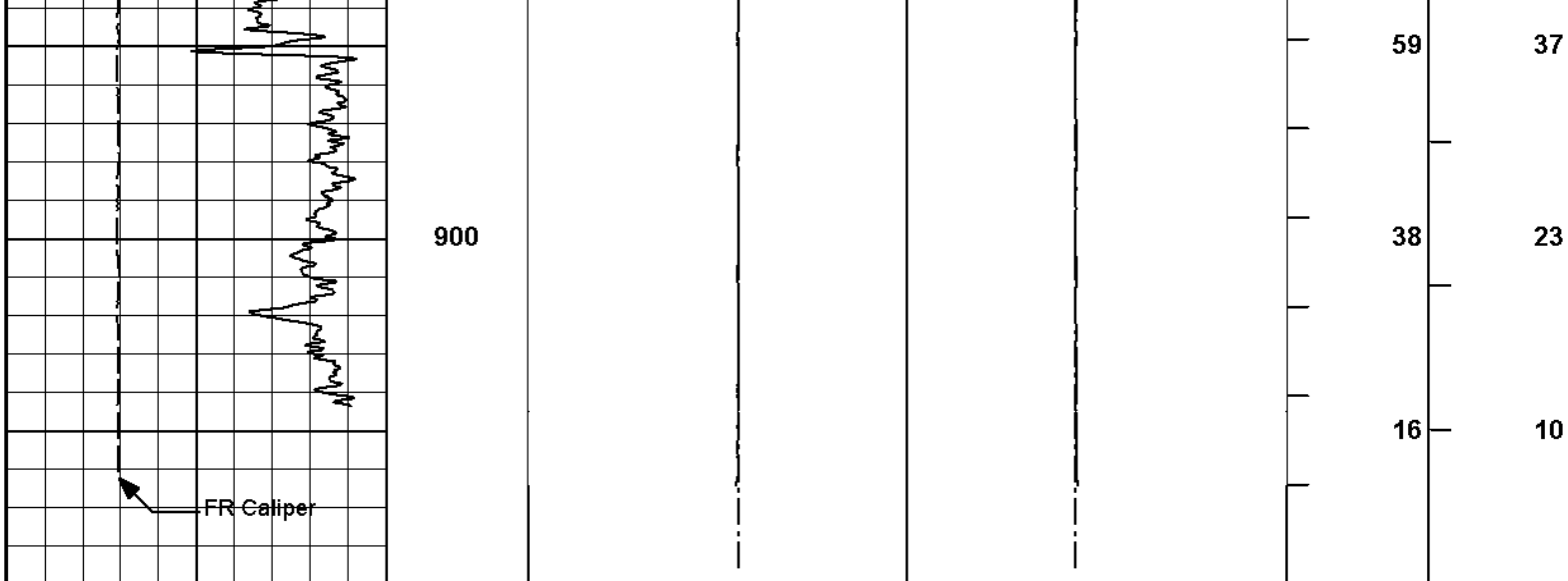
Tool Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Length Accumulation (ft)	Max Logging Speed (fpm)
CH	Cable Head	PROT01	30.00	1.92	48.87	300.00
GTET	GTET	10971172	165.00	8.46	40.41	60.00
DSNT	DSNT	10951378	174.00	9.69	30.72	60.00
SDLT	SDLT	I378_M477_P870	360.00	10.81	19.91	60.00
ACRt	ACRt	I816_S708	250.00	19.25	0.66	300.00
CBHD	Cabbage Head	CABBAGE	10.00	0.66	0.00	300.00
Total			989.00	50.79		60.00
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HALLIBURTON

Plot Time: 23-Mar-08 11:13:11
Plot Range: 645 ft to 990 ft
Data: STORMCAT_BALARD\Well Based\DAQ-0001-003.01\
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ANNULAR HOLE VOLUME PLOT





6	CALI	16	1 : 600	20	CALI	0	0	CALI	20	BHVT	AHVT
	inches				inches				inches		
0	Gamma API	150		20	Bit Size	0	0	Bit Size	20		
	api										
	SHALE				MUDCAKE			MUDCAKE			

HALLIBURTON

Plot Time: 23-Mar-08 11:13:13

Plot Range: 645 ft to 990 ft

Data: STORMCAT_BALARDWell Based\DAQ-0001-003.01\

Plot File: \\LOCAL\STORMCAT_BALARD\0001 GTET-DSNT-SDLT-ACRT\COMBO\AHV Plot_INSITE_IQ

ANNULAR HOLE VOLUME PLOT

COMPANY STORM CAT ENERGY (USA) OPERATING CORP.

WELL BALLARD 1-18H

FIELD B-43

COUNTY VAN BUREN

STATE

ARKANSAS

HALLIBURTON

ARRAY COMPENSATED
RESISTIVITY
SPECTRAL DENSITY
DUAL SPACED NEUTRON
MICROLOG

HALLIBURTON

Plot Time: 23-Mar-08 11:13:14

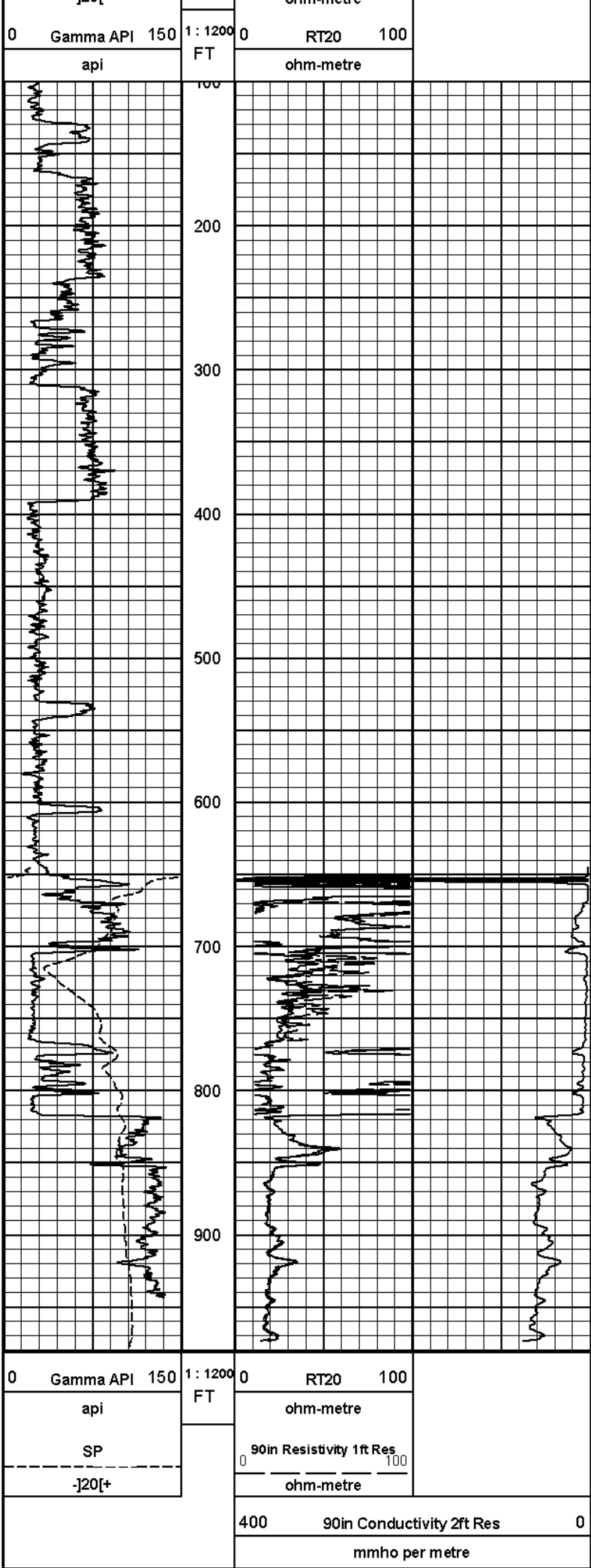
Plot Range: 100 ft to 980 ft

Data: STORMCAT_BALARDWell Based\DAQ-0001-003.01\

Plot File: \\LOCAL\STORMCAT_BALARD\0001 GTET-DSNT-SDLT-ACRT\COMBO\AHV CRT_1_main

1 INCH MAIN LOG

	400	90in Conductivity 2ft Res	0
		mmho per metre	
SP	0	90in Resistivity 1ft Res	100
-120ft+		ohm-metre	



HALLIBURTON

Plot Time: 23-Mar-08 11:13:16

Plot Range: 100 ft to 980 ft

Data: STORMCAT_BALARDWell BasedIDAQ-0001-003.011

Plot File: \\LOCAL-STORMCAT_BALARD\0001 GTET-DSNT-SDLT-A CRT\COMB01\A CRT_1_main

1 INCH MAIN LOG