HALLIBURTON

SPECTRAL DENSITY
DUAL SPACED NEUTRON
ARRAY COMPENSATED
TRUE RESISTIVITY
CORRECTED

BRIDGE/PARAMAX
TRACY TRUST #3-2
HAMILTON
PAYETTE
ID

COMPANY
WELL
FIELD
COUNTY
STATE

COMPANY **BRIDGE/PARAMAX**

WELL **TRACY TRUST #3-2**

FIELD **HAMILTON**

COUNTY **PAYETTE** STATE **ID**

API No. N/A
Location SHL: 2033' FSL & 647' FWL
SEC. 2, T-7N, R-4W

Sect. 02 Twp. 07N Rge. 04W

Other Services:
RWCH
XRMI
BSAT
DGCS

Permanent Datum	GL	Elev. 0.00 ft	Elev.: K.B. 2263.00 ft
Log measured from	KB	17.00 ft above perm. Datum	D.F. 2262.00 ft
Drilling measured from	KB		G.L. 2246.00 ft

Date		14-Aug-10					
Run No.		3					
Depth - Driller		2810.00 ft					
Depth - Logger		2817.0 ft					
Bottom - Logged Interval		2808.0 ft					
Top - Logged Interval		733.0 ft					
Casing - Driller		9.625 in @ 833.0 ft		@		@	
Casing - Logger		731.0 ft					
Bit Size		8.750 in		@		@	
Type Fluid in Hole		OBM					
Density	F. Viscosity	9.8 ppg	36.00 s/qt				
Alkalinity	P. Viscosity	0.20 pcf					
HTHP @ Meas. Temperature		5.4 cptm	@ 200.00 degF	@		@	
Solids	Wgt. Material	13.5 %	BARITE				
Oil	Water Ratio	89	11				
Water Phase Salinity		6000.00 ppm Cl-					
Oil Type	Brine Type	DIESEL	SALTWATER				
Electrical Stability		1920 V					
Time Since Circulation		6.0 hr					
Time on Bottom		14-Aug-10 16:34					
Max. Rec. Temperature		131.0 degF @ 2817.0 ft		@		@	
Equipment	Location	11014853	G.J., CO				
Recorded By		W. MATSON					
Witnessed By		JEFF KIRN					

Fold here

PGM Version: WL INSITE R3.0.5 (Build 3)

RESISTIVITY SCALE CHANGES

	Type Log	Depth	Scale Up Hole	Scale Down Hole

RESISTIVITY EQUIPMENT DATA

	Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other
	ONE	ACRT E486	N/A	1.5" S.O.	N/A

EQUIPMENT DATA

DENSITY

	Run No.	ONE
	Serial No.	10951314
	Model No.	SDLT
	Diameter	4.5"
	Log Type	GAMMA/GAMMA
	Source Type	Cs-137
	Serial No.	5253 GW
	Strength	1.5 Ci

NEUTRON

	Run No.	ONE
	Serial No.	10993888
	Model No.	DSNT
	Diameter	3.625"
	Log Type	THERM/THERM
	Source Type	Am241Be
	Serial No.	DSN-388
	Strength	15 Ci

LOGGING DATA

ACOUSTIC

	Run No.	ONE
	Serial No.	11105782
	Model No.	BSAT
	No. of Cent.	TWO
	Spacing	N/A
	LSA [Y/N]	YES
	FWDA [Y/N]	NO

GAMMA

	Run No.	ONE
	Serial No.	11005602
	Model No.	GTET
	Diameter	3.625"
	Detector Model No.	102A
	Type	SCINT
	Length	8"
	Distance to Source	11'

DENSITY

Scale	L	R	Matrix
	40%	0%	2.65 g/cc

NEUTRON

Scale	L	R	Matrix
	40%	0%	SAND

ACOUSTIC

Scale	L	R	Matrix
	40%	0%	55.5 us/ft

GAMMA

Scale	L	R
	0	200

GENERAL

Run No	Depth From	Depth To	Speed ft/min
ONE	TD	CSG	REC

DIRECTIONAL INFORMATION

Maximum Deviation	@	KOP	@

Remarks:

RUN ONE: GTET/DSN/SDL/FLEX/BSAT/ACRT

RUN TWO: D4TGX/DCGS

RUN THREE: D4TGX/XRMI

TENSON PULLS MAY AFFECT LOG RESPONSE

POROSITY SCALES CORRECTED.

YOUR CREW TODAY: W. HALL, J. WIKERSON, T. VANALSTYNE. RIG: RAZORBACK

THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES - GRAND JUNCTION, CO - (970) 523-3600

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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	MDWT	Borehole Fluid Weight	10.100	ppg
	SHARED	OBM	Oil Based Mud System?	Yes	
	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	2810.00	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	POTA	Potassium	0.00	%
	GTET	MDTP	Mud Type	Natural	
	GTET	TPOS	Tool Position	Standoff	
	DSNT	DNOK	Process DSN?	Yes	
	DSNT	DEOK	Process DSN EVR?	No	
	DSNT	NLIT	Neutron Lithology	Sandstone	
	DSNT	DNSO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.000	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	DNOK	Process Density?	Yes	
SDLT	DNOK	Process Density EVR?	No	
SDLT	AD	Is Hole Air Drilled?	No	
SDLT	CB	Logging Calibration Blocks?	No	
SDLT	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT	DTWN	Disable temperature warning	No	
SDLT	MDTP	Weighted Mud Correction Type?	Barite	
SDLT	DMA	Formation Density Matrix	2.650	g/cc
SDLT	DFL	Formation Density Fluid	1.000	g/cc
SDLT	CLOK	Process Caliper Outputs?	Yes	
SDLT	MLOK	Process MicroLog Outputs?	Yes	
BSAT	MBOK	Compute BCAS Results?	Yes	
BSAT	FLLO	Semblance Filter Low Pass Value?	5000	Hz
BSAT	FLHI	Semblance Filter High Pass Value?	27000	Hz
BSAT	DTFL	Delta -T Fluid	189.00	uspf
BSAT	DTMT	Delta -T Matrix Type	Sandstone 55.5	
BSAT	DTSH	Delta -T Shale	100.00	uspf
BSAT	SPEQ	Acoustic Porosity Equation	Wylie	
ACRt	RTOK	Process ACRt?	Yes	
ACRt	MNSO	Minimum Tool Standoff	1.50	in
ACRt	TCS1	Temperature Correction Source	FP Lwr & FP Upr	
ACRt	TPOS	Tool Position	Free Hanging	
ACRt	RMOP	Rmud Source	Mud Cell	
ACRt	RMIN	Minimum Resistivity for MAP	0.20	ohmm
ACRt	RMIN	Maximum Resistivity for MAP	200.00	ohmm
ACRt	THQY	Threshold Quality	0.50	

BOTTOM

Data: BIRDG_TRACY_3_2\0001 QUAD-BSAT\005 14-Aug-10 09:06 Up @2820.5f

Date: 14-Aug-10 09:42:52

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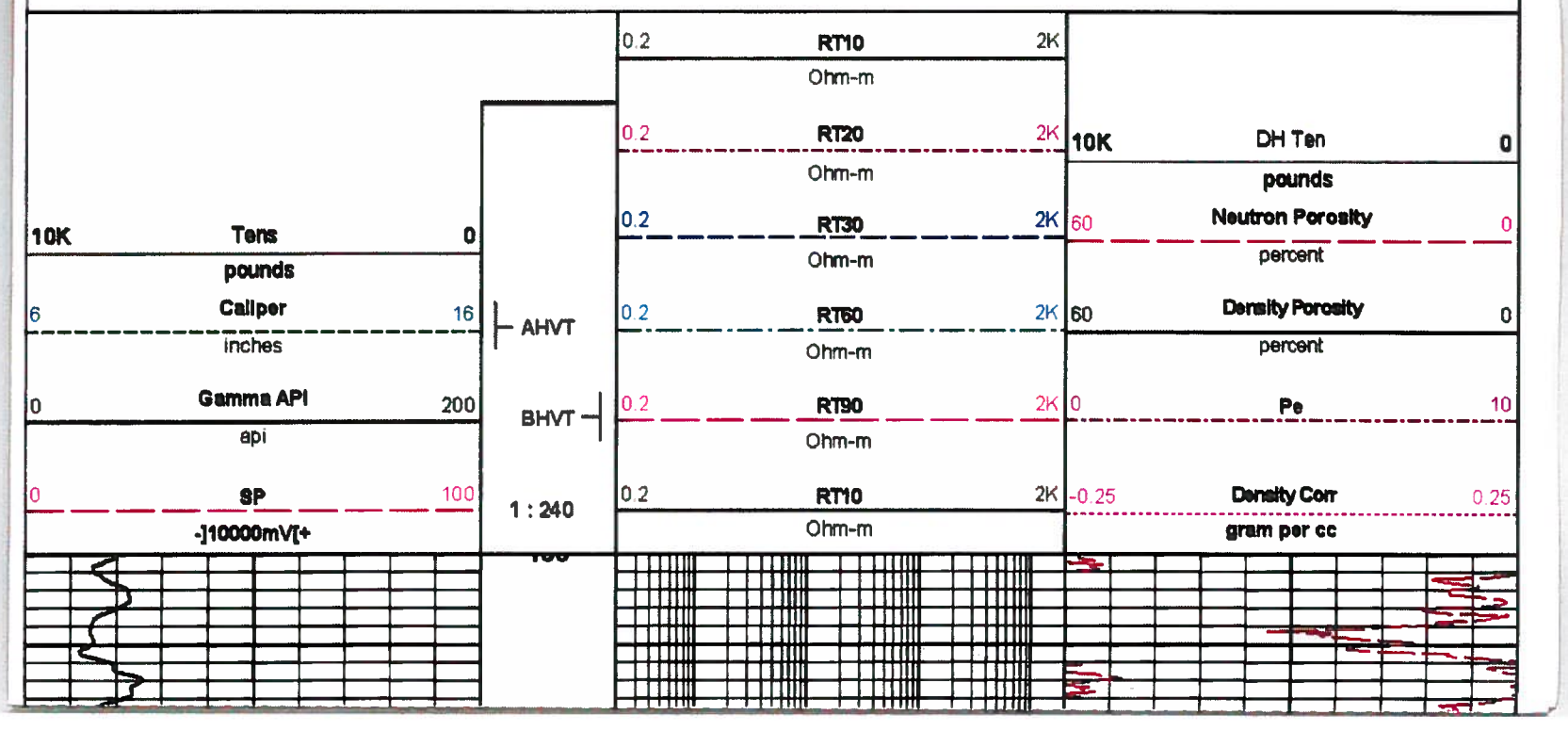
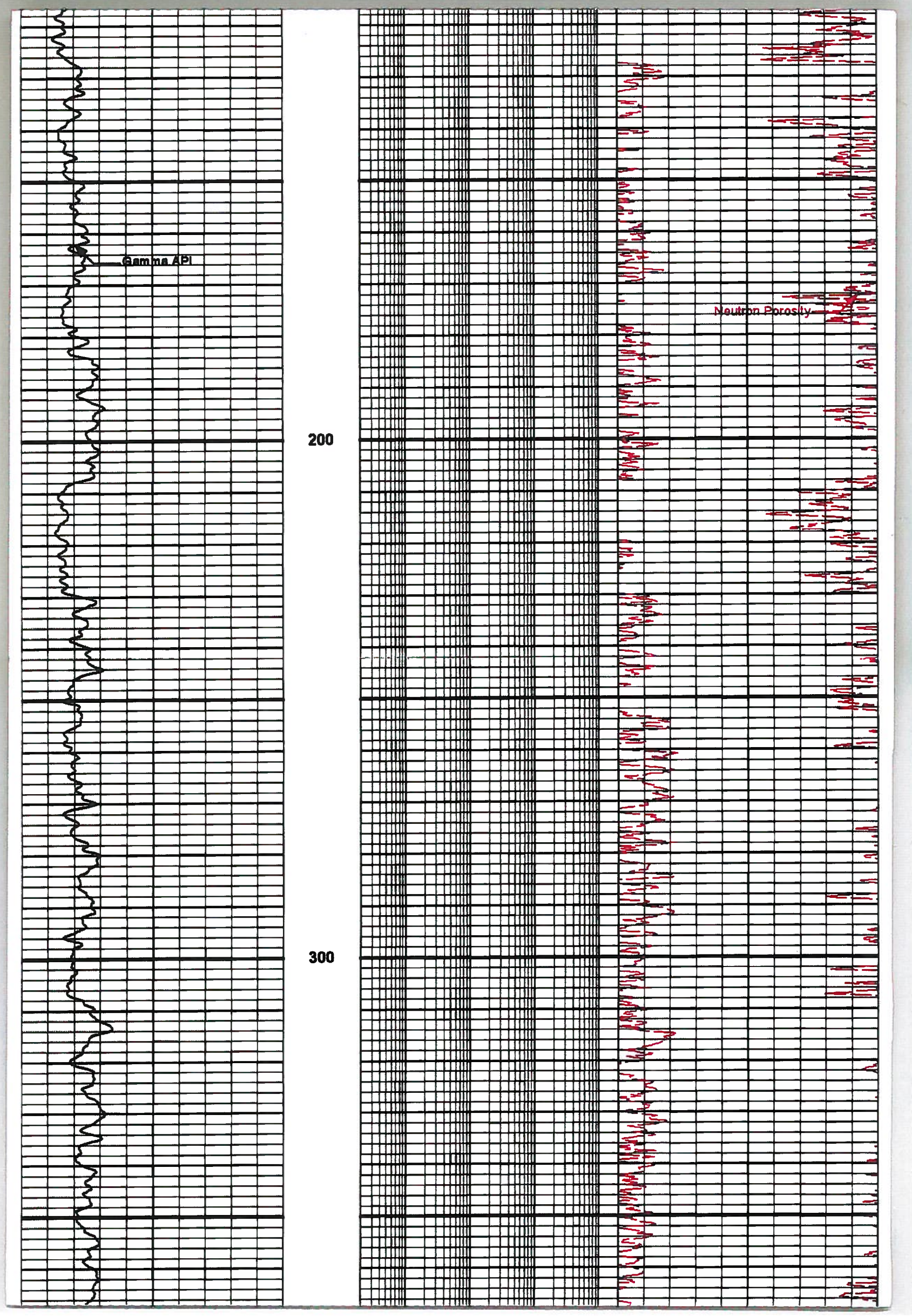
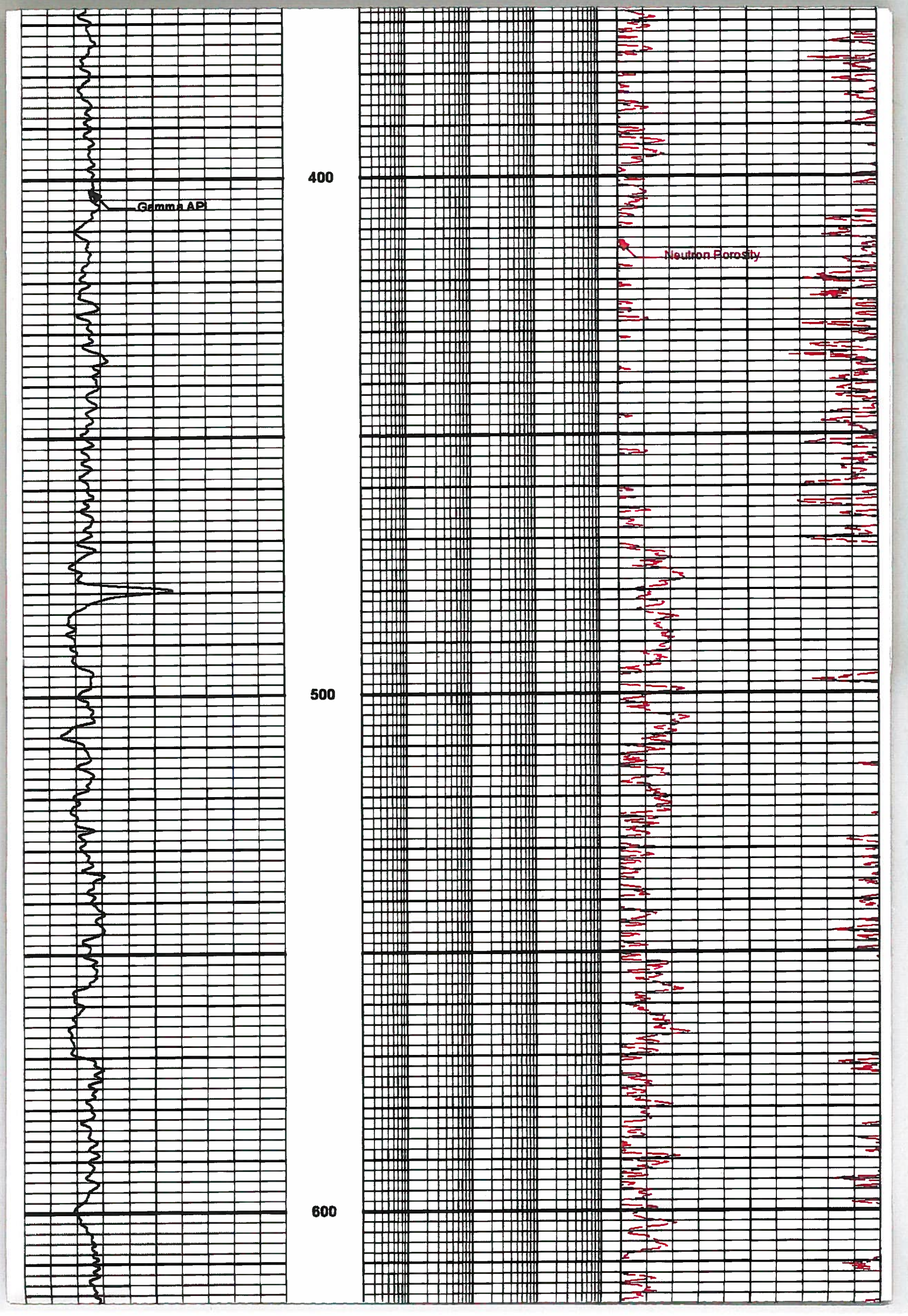
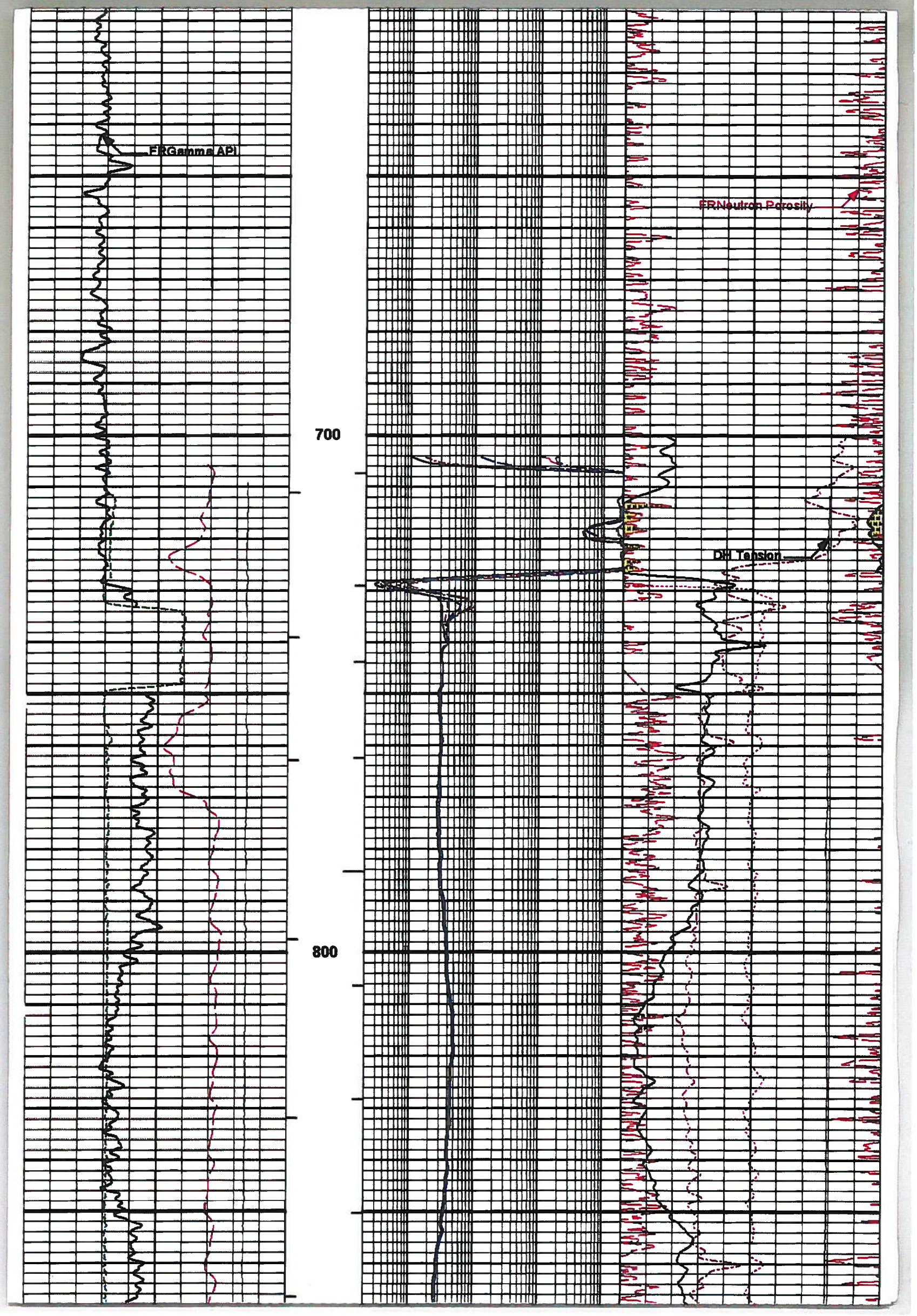
Plot Time: 17-Aug-10 12:39:14
Plot Range: 100 ft to 2822.36 ft
Data: BIRDG_TRACY_3_2\Well Based\"
Plot File: \\(not saved)\BP_5IN_COMP_M

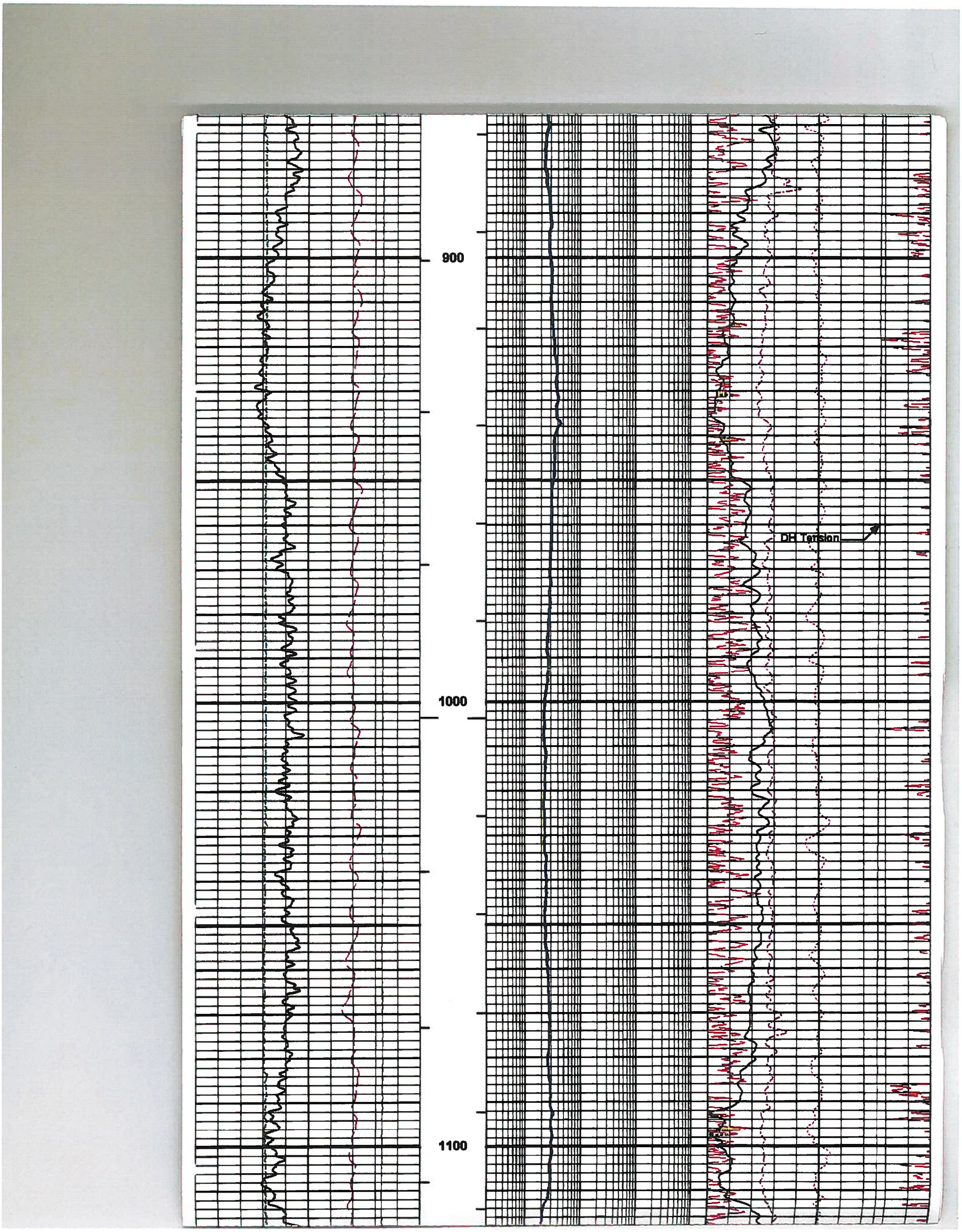
MAIN PASS 5" = 100'

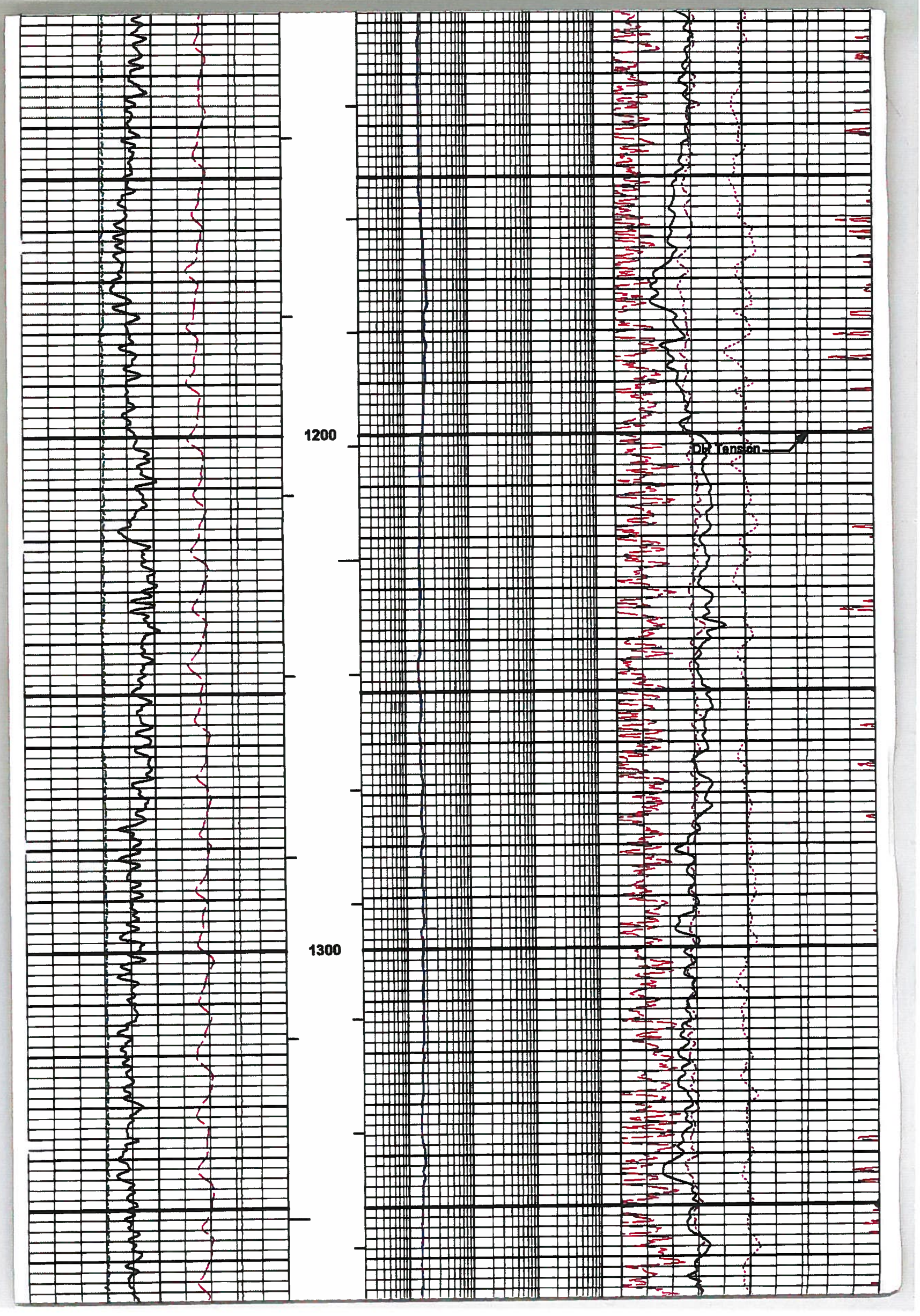


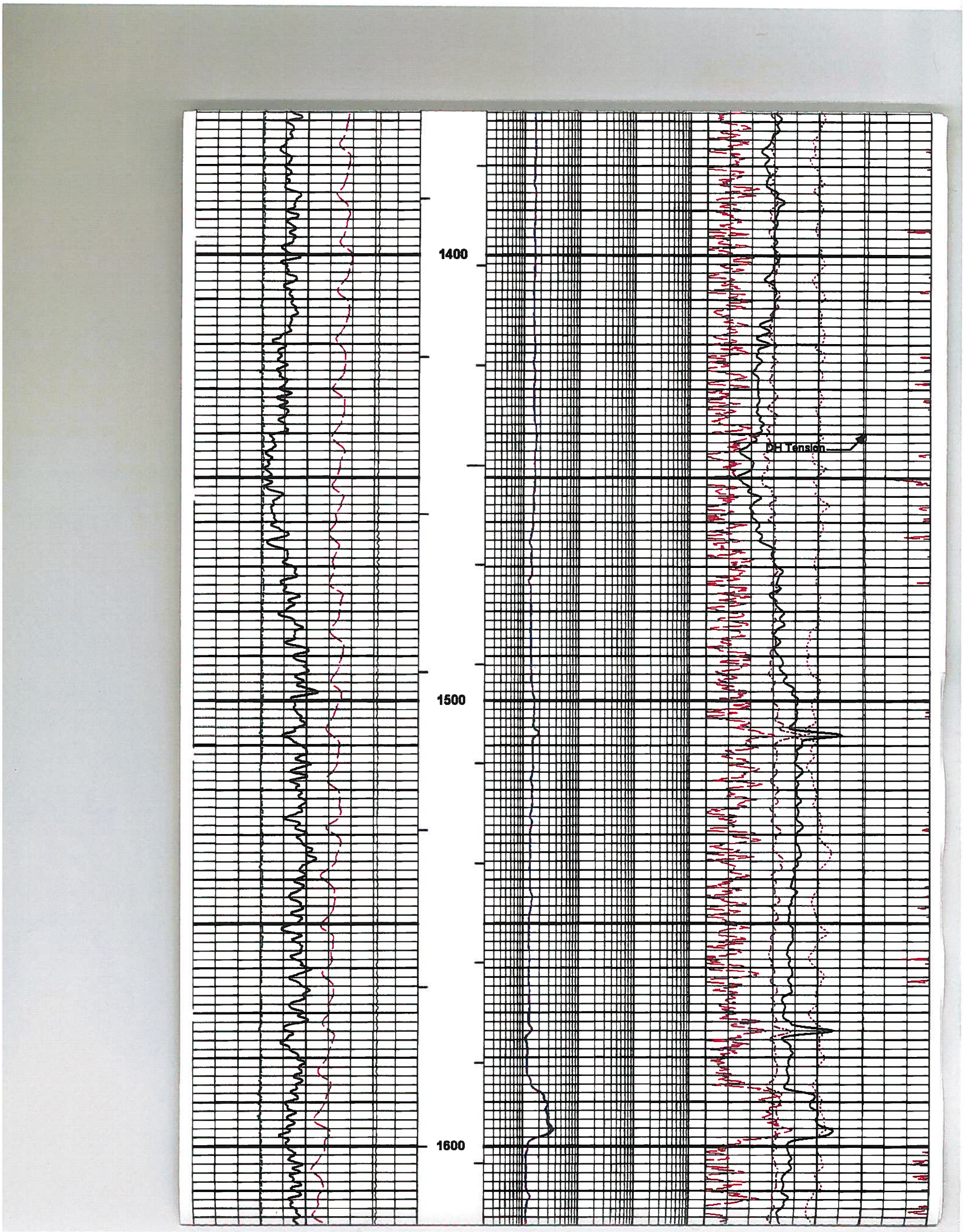

Gamma API
Neutron Porosity
200
300

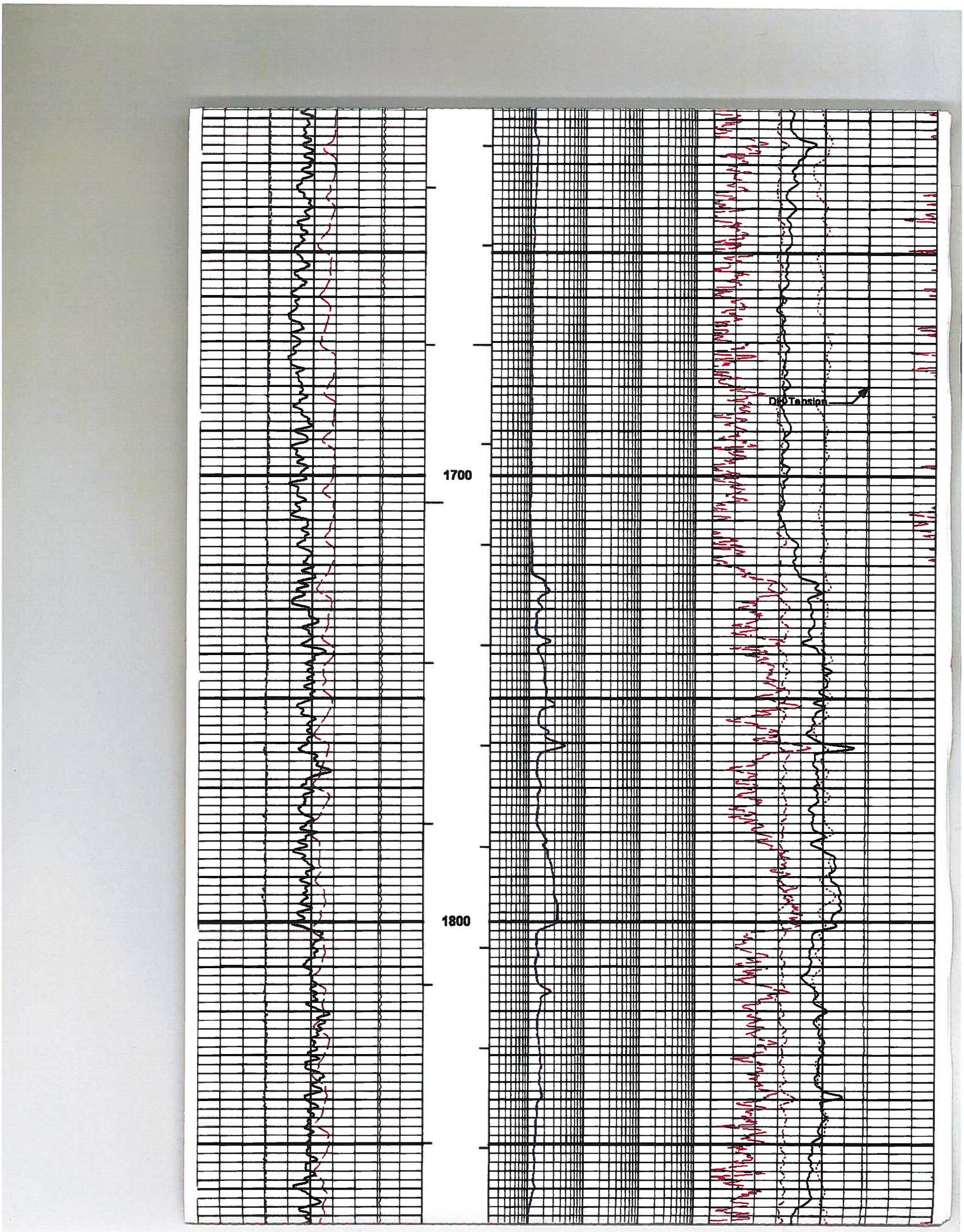

Gamma API
400
500
600
Neutron Porosity

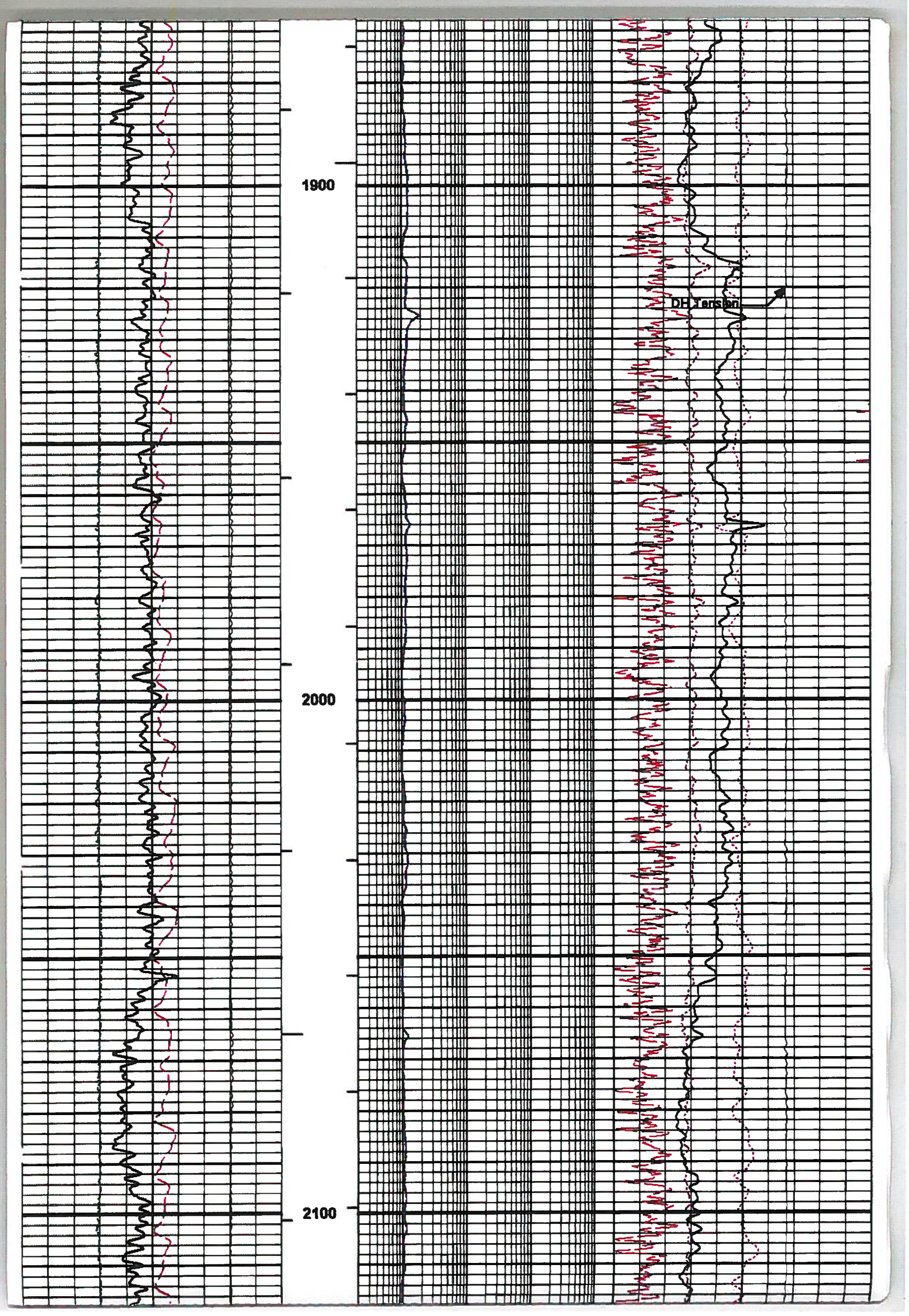

FRGamma API
FRNeutron Porosity
700
DH Tension
800

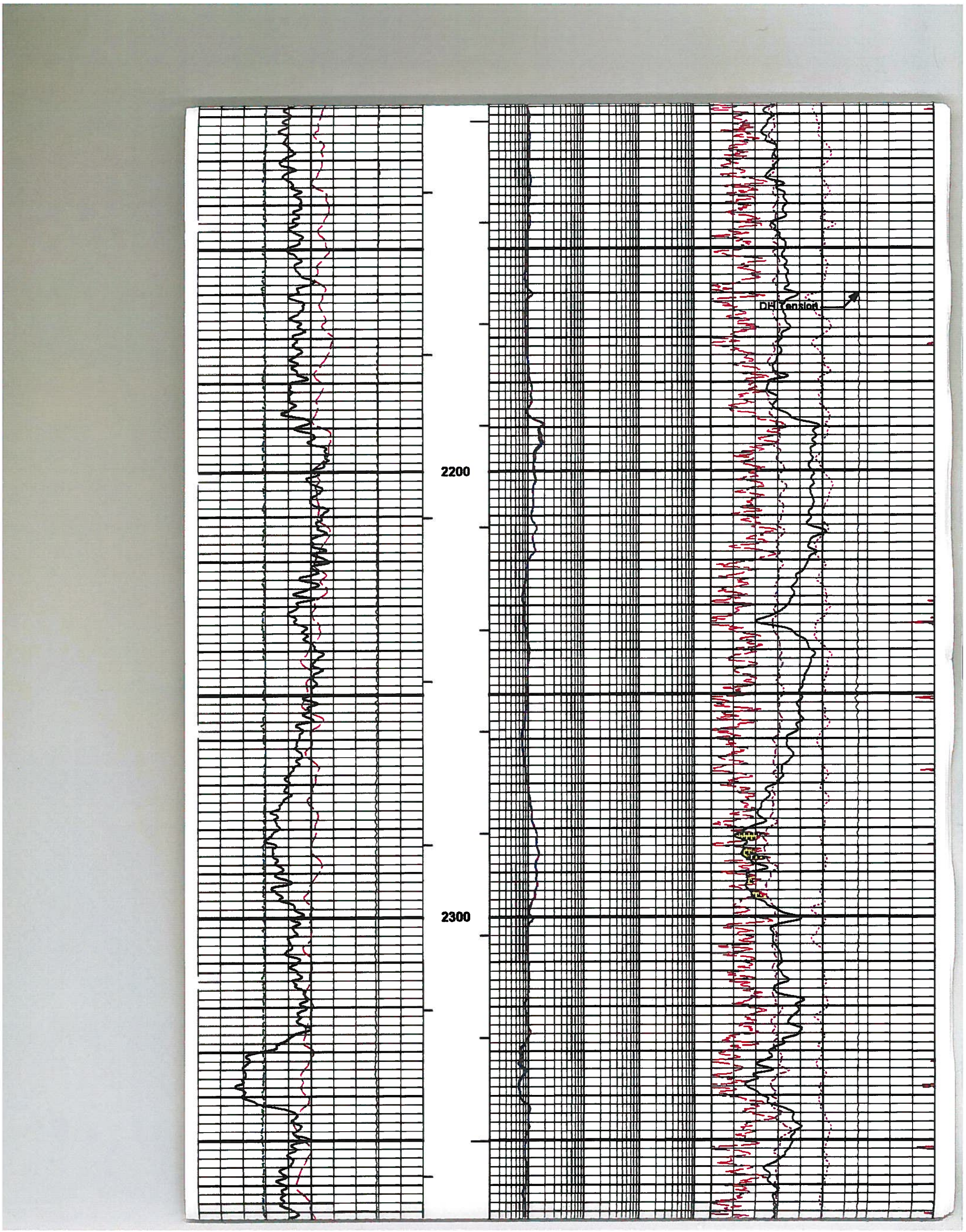

900
1000
1100
DH Tension

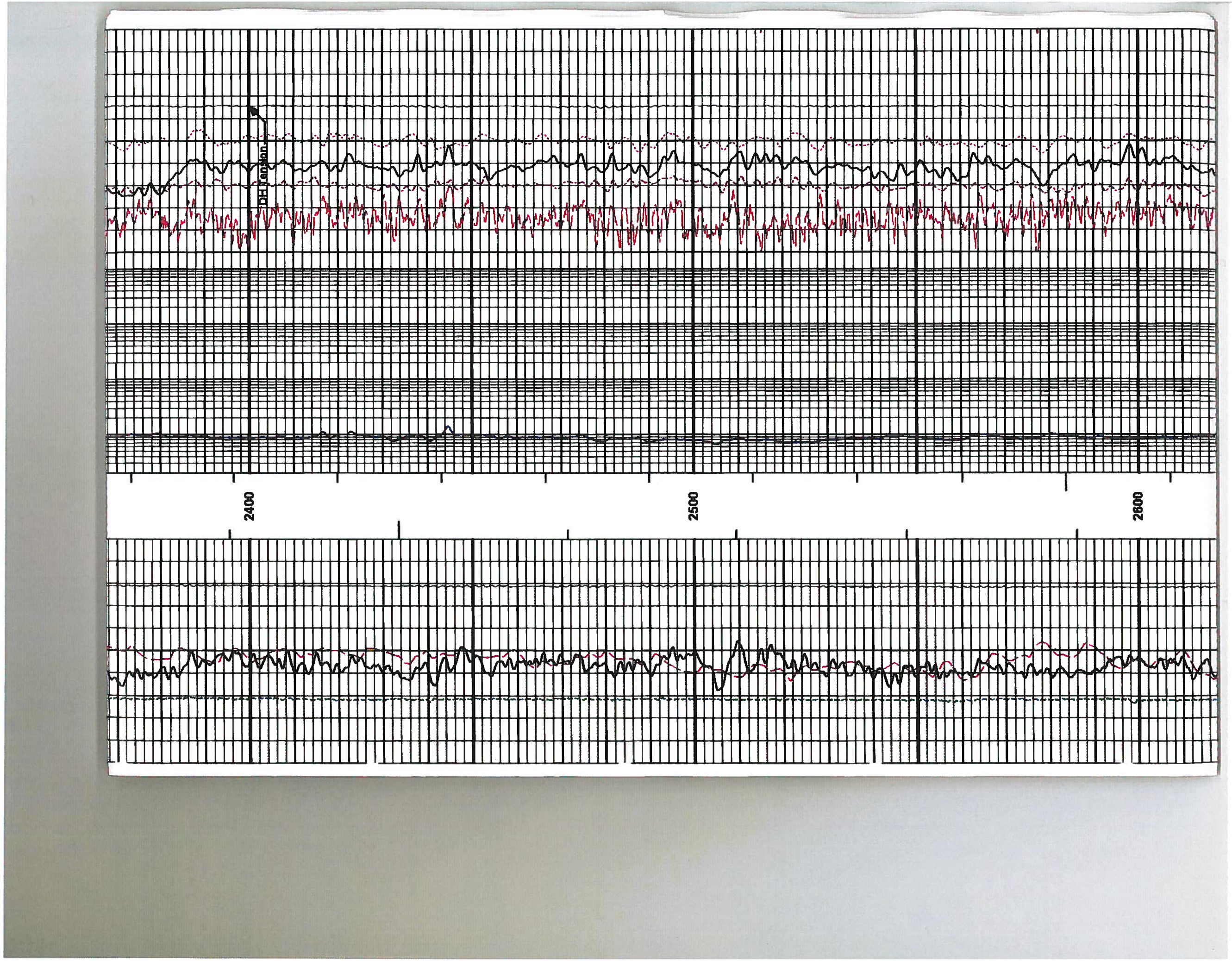

1200
1300
DP Tension

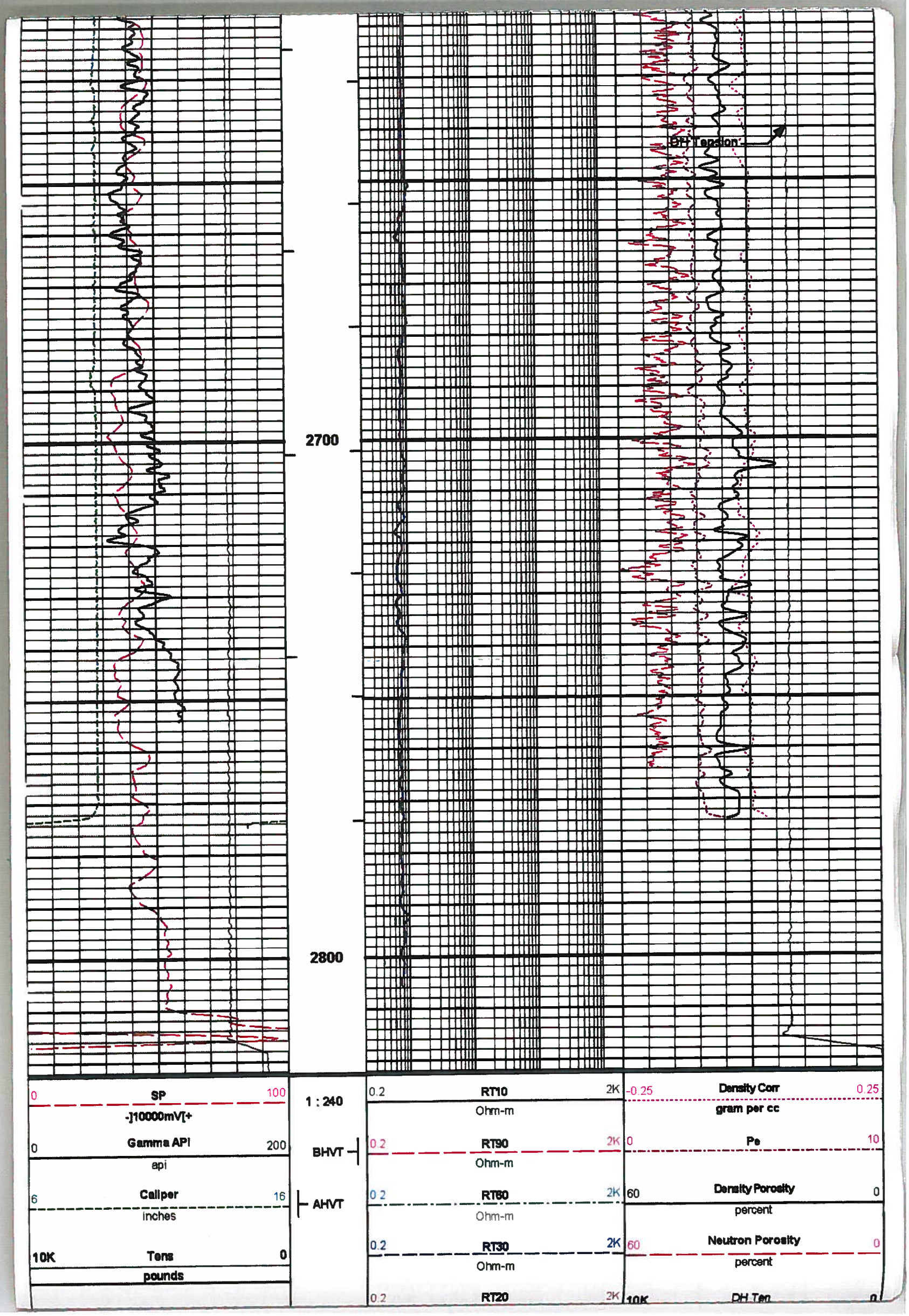

1400
1500
1600
DH Tension


Dia Tension
1700
1800


1900
2000
2100
DH Tension


DH Tension
2200
2300


DH Tension
2400
2500
2600


OFF Tension
2700
2800
0
SP
100
-]10000mV[+
0
Gamma API
200
api
6
Caliper
16
inches
10K
Tens
0
pounds
1 : 240
BHVT
AHVT
0.2
RT10
2K
Ohm-m
0.2
RT90
2K
Ohm-m
0.2
RT60
2K
Ohm-m
0.2
RT30
2K
Ohm-m
0.2
RT20
2K
-0.25
Density Corr
0.25
gram per cc
0
Pe
10
60
Density Porosity
0
percent
60
Neutron Porosity
0
percent
10K
DH Ten
0

Ohm-m

0.2 RT10 2K

Ohm-m

pounds

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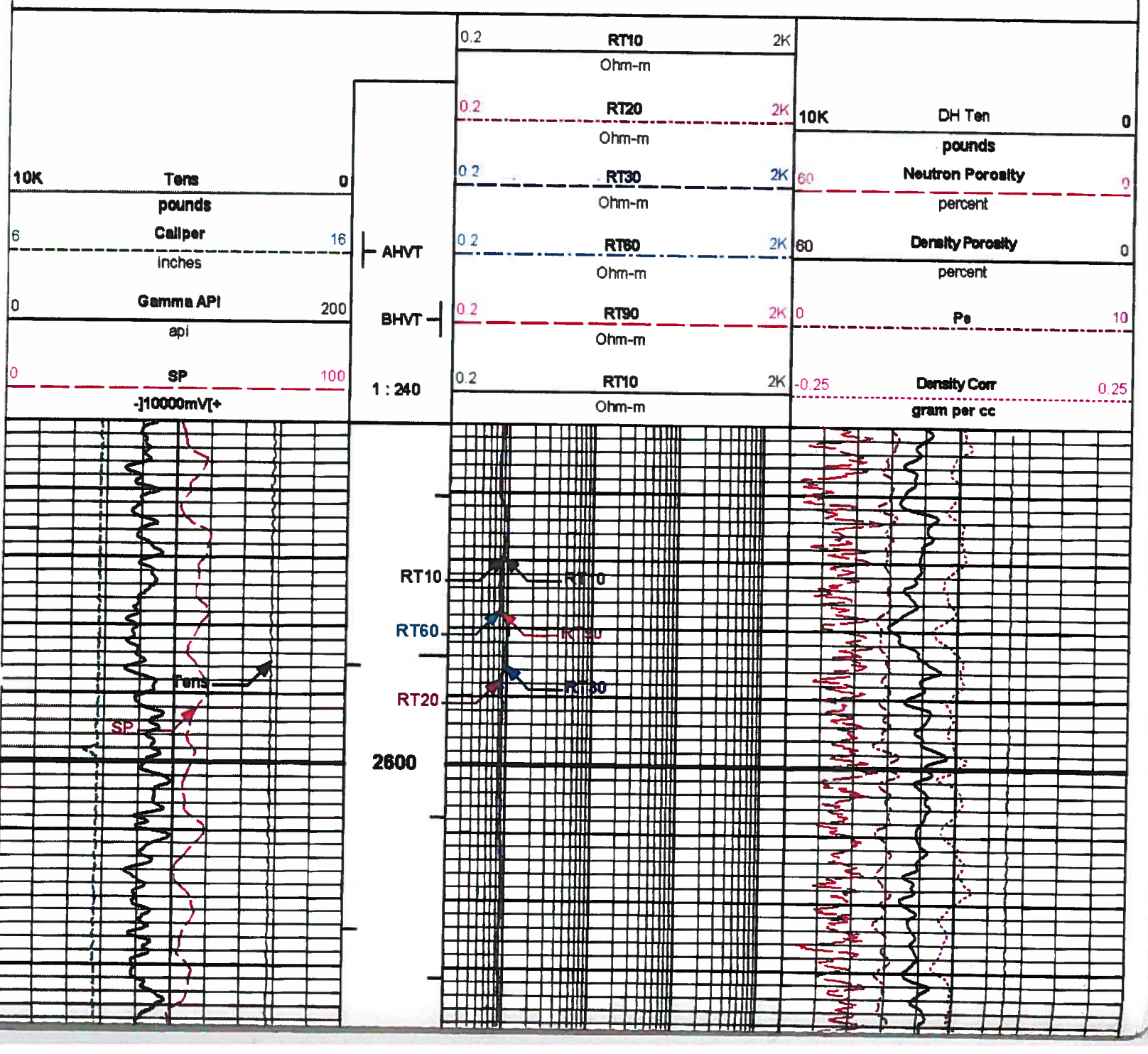
Plot Time: 17-Aug-10 12:39:24
Plot Range: 100 ft to 2822.36 ft
Data: BIRDG_TRACY_3_2\Well Based\"\"
Plot File: \\(not saved)\BP_5IN_COMP_M

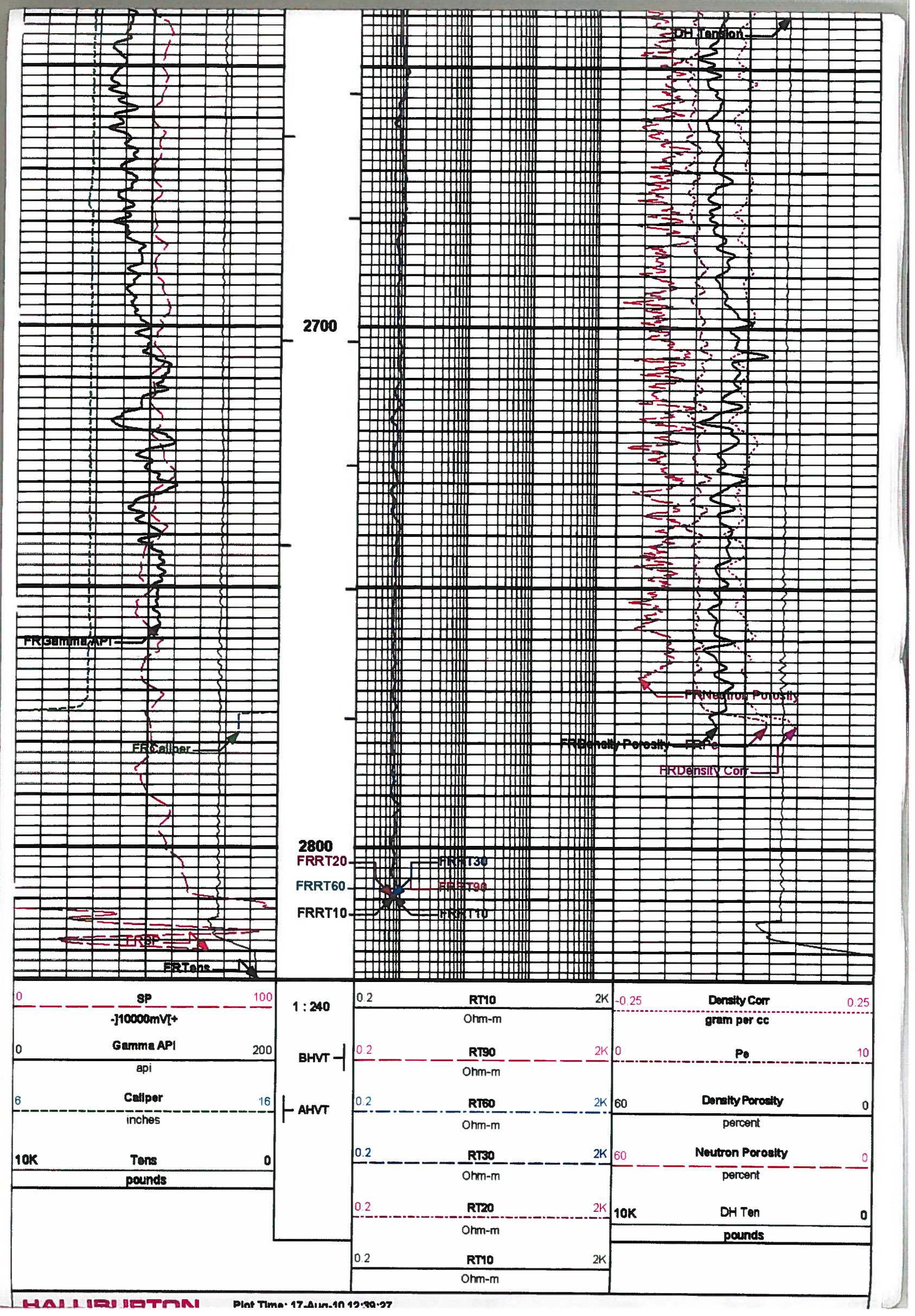
MAIN PASS 5" = 100'

HALLIBURTON

Plot Time: 17-Aug-10 12:39:25
Plot Range: 2550 ft to 2825.34 ft
Data: BIRDG_TRACY_3_2\Well Based\REPEAT\"
Plot File: \\(not saved)\BP_5IN_COMP_M

REPEAT SECTION 5" = 100'




DH Tension
2700
FRGamma/API
FRCaliber
SP
FRTens
FRNeutron Porosity
FRDensity Porosity
FRPe
FRDensity Corr
2800
FRRT20
FRRT60
FRRT10
FRRT30
FRRT90
FRRT10
0
SP
100
-]10000mV[+
0
Gamma API
200
api
6
Caliper
16
inches
10K
Tens
0
pounds
1 : 240
BHVT
AHVT
0.2
RT10
2K
Ohm-m
0.2
RT90
2K
Ohm-m
0.2
RT60
2K
Ohm-m
0.2
RT30
2K
Ohm-m
0.2
RT20
2K
Ohm-m
0.2
RT10
2K
Ohm-m
-0.25
Density Corr
0.25
gram per cc
0
Pe
10
60
Density Porosity
0
percent
60
Neutron Porosity
0
percent
10K
DH Ten
0
pounds
HALLIBURTON
Plot Time: 17-Aug-10 12:39:27

Plot Range: 2550 ft to 2825.34 ft
Data: BIRDG_TRACY_3_2\Well Based\REPEAT\"
Plot File: \\(not saved)\BP_5IN_COMP_M

REPEAT SECTION 5" = 100'

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	GTET - 11005602	**Reference Calibration Date:**	30-May-10 03:58:22
Engineer:	W. MATSON	**Calibration Date:**	02-Jul-10 18:13:20
Software Version:	WL INSITE R3.0.5 (Build 3)	**Calibration Version:**	1

Calibrator Source S/N: 110
Calibrator API Reference:239.00 api

Measurement	Measured	Calibrated	Units
Background	30.9	31.0	api
Background + Calibrator	273.1	274.2	api
Calibrator	243.3	243.2	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	GTET - 11005602	**Reference Calibration Date:**	02-Jul-10 18:13:20
Engineer:	W. MATSON	**Calibration Date:**	14-Aug-10 00:53:05
Software Version:	WL INSITE R3.0.5 (Build 3)	**Calibration Version:**	1

Calibrator Source S/N: 110
Calibrator API Reference:239.00 api

Field Verification	Shop	Field	Units
Background	31.0	110.4	api
Background + Calibrator	274.2	361.1	api
Calibrator	243.2	250.8	api

Shop	Field	Difference	Tolerance
243.2	250.8	-7.6	+/- 9.00

NATURAL GAMMA RAY TOOL POST CALIBRATION

Tool Name:	GTET - 11005602	**Reference Calibration Date:**	14-Aug-10 00:53:05
Engineer:	W. MATSON	**Calibration Date:**	14-Aug-10 10:33:42
Software Version:	WL INSITE R3.0.5 (Build 3)	**Calibration Version:**	1

Calibrator Source S/N: 110
Calibrator API Reference:239.00 api

Post Verification	Field	Post	Units
Background	110.4	72.2	api
Background + Calibrator	361.1	314.9	api
Calibrator	250.8	242.8	api

Shop	Field	Post	Difference	Tolerance
243.2	250.8	242.8	8.0	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name:	DSNT - 10993888	**Reference Calibration Date:**	01-Jan-70 00:00:00
Engineer:	W. MATSON	**Calibration Date:**	07-Aug-10 19:25:56
Software Version:	WL INSITE R3.0.5 (Build 3)	**Calibration Version:**	1

Logging Source S/N: DSN-368
Tank Serial Number: GJ WATER TANK

Reference value assigned to Tank: 52.750
Snow Block S/N: GJ-110
Calibration Tank Water Temperature: 68 degF
Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS

Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.968	0.968	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):	0.2169	0.2169	0.0000	+/- 0.0020
Calibrated Ratio:	9.93	9.93	0.000	+/- 0.050

VERIFIER

Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0604	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-Aug-10 19:25:56
Engineer:	W. MATSON	Calibration Date:	07-Aug-10 19:27:11
Software Version:	WL INSITE R3.0.5 (Build 3)	Calibration Version:	1

Logging Source S/N: DSN-388
Snow Block S/N: GJ-110

NEUTRON FIELD-CHECK SUMMARY

	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0604	0.0604	0.0000	+/- 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 - 10993888	Reference Calibration Date:	07-Aug-10 19:27:11
Engineer:	W. MATSON	Calibration Date:	14-Aug-10 10:44:14
Software Version:	WL INSITE R3.0.5 (Build 3)	Calibration Version:	1

Logging Source S/N: DSN-388
Snow Block S/N: GJ-110

NEUTRON POST-CHECK SUMMARY

	Field Value	Post Value	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0604	0.0720	0.0116	+/- 0.0150

PASS/FAIL SUMMARY

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

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name:	SDLT - 10951314	Reference Calibration Date:	01-Jul-10 12:28:54
Engineer:	W. MATSON	Calibration Date:	07-Aug-10 20:39:33

Software Version: WL INSITE R3.0.5 (Build 3) **Calibration Version:** 1

Logging Source S/N: 5153GW

Aluminum Block S/N: 63094 **Density:** 2.610g/cc **Pe:** 3.100

Magnesium Block S/N: 63387 **Density:** 1.685g/cc **Pe:** 2.594

DENSITY CALIBRATION SUMMARY

Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0757	1.0537	0.90 - 1.10
Near Dens Gain	1.0386	1.0102	0.90 - 1.10
Near Peak Gain	1.0208	0.9795	0.90 - 1.10
Near Lith Gain	0.9989	0.9287	0.90 - 1.10
Far Bar Gain	1.0159	1.0122	0.90 - 1.10
Far Dens Gain	1.0044	0.9994	0.90 - 1.10
Far Peak Gain	0.9997	0.9880	0.90 - 1.10
Far Lith Gain	0.9804	0.9648	0.90 - 1.10
Near Bar Offset	-0.6212	-0.4116	NONE
Near Dens Offset	-0.2734	-0.0148	NONE
Near Peak Offset	-0.1103	0.2475	NONE
Near Lith Offset	0.0429	0.6532	NONE
Far Bar Offset	-0.1071	-0.0711	NONE
Far Dens Offset	-0.0125	0.0357	NONE
Far Peak Offset	0.0184	0.1216	NONE
Far Lith Offset	0.1428	0.2756	NONE
Near Bar Background	964.19	960.60	700 - 1450
Near Dens Background	319.44	318.13	230 - 480
Near Peak Background	139.14	139.09	100 - 210
Near Lith Background	171.67	170.29	125 - 260
Far Bar Background	582.10	583.97	450 - 900
Far Dens Background	226.62	225.91	175 - 345
Far Peak Background	89.13	88.65	70 - 140
Far Lith Background	94.77	92.86	75 - 145

CALIBRATION BLOCK SUMMARY

Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.683	1.685	0.002	+/- 0.015
Pe	2.645	2.593	-0.052	+/- 0.150
ALUMINUM				
Density (g/cc)	2.607	2.610	0.003	+/- 0.01500
Pe	3.242	3.098	-0.144	+/- 0.150

TOOL SUMMARY

Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0003	+/- 0.0110	-0.0007	+/- 0.0140
Magnesium Block	-0.0006	+/- 0.0110	-0.0014	+/- 0.0140
Aluminum Block	-0.0015	+/- 0.0110	0.0008	+/- 0.0140
Resolution	9.19	6.00 - 11.50	9.49	6.00 - 11.50
Internal Verifier(B+D+P+L)	1588	1200 - 2700	991	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 - 10951314	**Reference Calibration Date:**	07-Aug-10 20:39:33
Engineer:	W. MATSON	**Calibration Date:**	14-Aug-10 00:52:46
Software Version:	WL INSITE R3.0.5 (Build 3)	**Calibration Version:**	1

Pad Temperature: 75.2 degF

DENSITY FIELD CALIBRATION SUMMARY

Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1588.114	1596.243	8.129	16.029
Far (B+D+P+L) cps	991.393	1000.381	8.988	16.874
Near Resolution	9.19	9.48	0.290	0.50
Far Resolution	9.49	10.36	0.870	1.00

PASS/FAIL SUMMARY

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

SPECTRAL DENSITY POST CHECK

Tool Name:	SDLT - 10951314	**Reference Calibration Date:**	14-Aug-10 00:52:46
Engineer:	W. MATSON	**Calibration Date:**	14-Aug-10 10:35:41
Software Version:	WL INSITE R3.0.5 (Build 3)	**Calibration Version:**	1

Pad Temperature: 98.1 degF

DENSITY POST CALIBRATION SUMMARY

Measurement	Field	Post	Change	Control Limit +/-
Near (B+D+P+L) cps	1596.243	1592.654	-3.589	16.029
Far (B+D+P+L) cps	1000.381	987.257	-13.124	16.874
Near Resolution	9.48	9.26	-0.220	0.50
Far Resolution	10.36	9.58	-0.780	1.00

PASS/FAIL SUMMARY

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

DENSITY CALIPER SHOP CALIBRATION

Tool Name:	SDLT - 10951314	**Reference Calibration Date:**	28-May-10 01:35:27
Engineer:	K. WOOD	**Calibration Date:**	04-Jul-10 17:21:04
Software Version:	WL INSITE R3.0.5 (Build 3)	**Calibration Version:**	1

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-1494.47	-1002.44	-7000.00 - -1000.00
Pad Gain	0.0003846	0.0003840	0.000200 - 0.000600
Arm Offset	904.02	640.04	-5000.00 - 3000.00
Arm Gain	0.0005180	0.0005228	0.000300 - 0.000700
Arm Power	-0.000005476	-0.000006424	-0.000010 - 0.000010

The ring diameter is computed from: DIAMETER = PAD EXTENSION + ARM EXTENSION + TOOL DIAMETER

Tool Diameter: 4.50 in

CALIBRATION RINGS

Measurement	Current Reading (Previous Coeff.)	Calibrated (New Coeff.)	Change	Control Limit On New Value
PAD EXTENSION:				
Small Ring (in)	1.81	2.00	0.19	+/- 0.20
Medium Ring (in)	3.57	3.75	0.18	+/- 0.20

RING DIAMETER:				
Small Ring (in)	6.43	6.50	0.07	+/- 0.20
Medium Ring (in)	8.18	8.25	0.07	+/- 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 - 10951314	Reference Calibration Date:	04-Jul-10 17:21:04
Engineer:	W. MATSON	Calibration Date:	14-Aug-10 00:57:20
Software Version:	WL INSITE R3.0.5 (Build 3)	Calibration Version:	1

MEASURED CALIPER VALUES

Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.76	0.01	+/- 0.10
Ring Diameter	8.25	8.34	0.09	+/- 0.15

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

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name:	ACRt - 90194258-E7486-	Reference Calibration Date:	26-Feb-10 14:15:18
Engineer:	W. MATSON	Calibration Date:	12-Aug-10 15:41:15
Software Version:	WL INSITE R3.0.5 (Build 3)	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	0.9940	1.05	0.95	0.9974	1.05	0.95	0.9973	1.05
A2 (50")	0.95	1.0021	1.05	0.95	1.0061	1.05	0.95	1.0064	1.05
A3 (29")	0.95	1.0057	1.05	0.95	1.0084	1.05	0.95	1.0064	1.05
A4 (17")	0.95	0.9969	1.05	0.95	0.9973	1.05	0.95	0.9968	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.9994	1.05	0.95	0.9974	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9894	1.05	0.95	0.9868	1.05

TYPICAL SONDE OFFSET RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	-5	-0.290	2	-6	-4.029	-2	-8	-5.036	-2
A2 (50")	-7	-2.370	-1	-6	-3.851	-2	-7	-4.602	-2
A3 (29")	-27	-11.382	-9	-9	-3.589	-3	-7	-2.965	-1
A4 (17")	-180	-101.271	-60	-45	-31.829	-15	-39	-25.778	-13
A5 (10")	N/A	N/A	N/A	-150	-65.345	-50	-80	-34.508	-10
A6 (6")	N/A	N/A	N/A	175	270.032	525	90	140.169	270

TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper
12K	0.6	0.9052	1.3
36K	1.0	1.7805	2.0
72K	1.0	1.1442	2.0

R-MUD VERIFICATION

Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
Mud Cell	0.95	1.004	1.05

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units

GTET-11005602						
Gamma Ray Calibrator	243.2	250.8	242.8	8.0	+/- 9.00	api
DSNT-10993888						
Snow-Block Porosity	0.0604	0.0604	0.0720	-0.0116	+/- 0.0150	decp
SDLT-10951314						
Near(B+D+P+L)	1588.114	1596.243	1592.654	3.589	+/-16.029	cps
Far(B+D+P+L)	991.393	1000.381	987.257	13.124	+/-16.874	cps
Pad Extension	3.75	3.76	----------	-0.01	+/-0.10	in
Ring Diameter	8.25	8.34	----------	-0.090	+/-0.15	in
ACRt-90194258-E7486-						
Mud Cell	1.004	----------	----------	0.000	----------	ohm-m

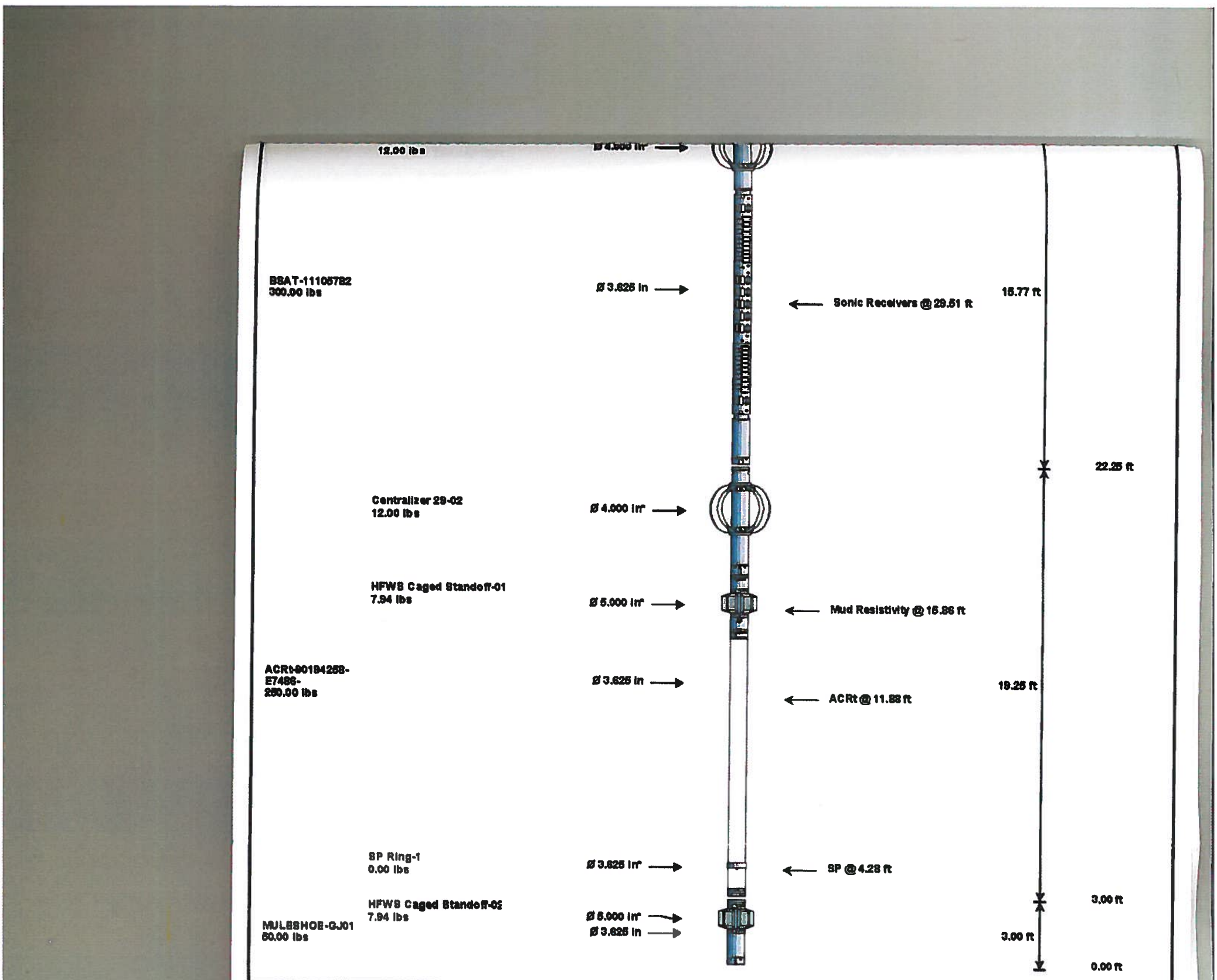
Data: BIRDG_TRACY_3_2\0001 QUAD-BSATIDLE Date: 14-Aug-10 17:04:15

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
						79.26 ft
RWCH-C11013846 136.00 lbs		Ø 3.625 in		Load Cell @ 75.68 ft BH Temperature @ 75.01 ft	6.25 ft	
						73.01 ft
GTET-11005602 165.00 lbs		Ø 3.625 in		GammaRay @ 66.96 ft	8.52 ft	
						64.49 ft
DSNT-10993888 174.00 lbs	DSN Decentralizer- 10838203 6.60 lbs	Ø 3.625 in* Ø 3.625 in		DSN Far @ 57.56 ft DSN Near @ 56.81 ft	9.69 ft	
						54.81 ft
SDLT-10951314 380.00 lbs		Ø 4.500 in Ø 4.750 in		SDL Microlog @ 46.99 ft SDL Caliper @ 46.81 ft SDL @ 46.80 ft	10.81 ft	
						43.99 ft
Flex Joint - Pressure Comp- GJ01 140.00 lbs		Ø 3.625 in			5.97 ft	
						38.02 ft

Centralizer 28-91



Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)		Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head	C11013846	135.00	6.25		73.01	300.00
GTET	Gamma Telemetry Tool	11005602	165.00	8.52		64.49	60.00
DSNT	Dual Spaced Neutron	10993888	174.00	9.69		54.81	60.00
DCNT	DSN Decentralizer	10839203	6.60	5.13	*	58.14	300.00
SDLT	Spectral Density Tool	10951314	360.00	10.81		43.99	60.00
FLEX	Flex Joint - Pressure Compensated	GJ01	140.00	5.97		38.02	300.00
BCAS	Borehole Sonic Array Tool	11105782	300.00	15.77		22.25	60.00
OBCEN	Centralizer - 29 in.Overbody	01	12.00	2.42	*	35.38	300.00
ACRt	Array Compensated True Resistivity	90194258-E7486-	250.00	19.25		3.00	300.00
HFCS	Hostile Full Wave Sonic Caged Metal and Rubber Standoff	01	7.94	1.33	*	15.47	300.00
SP	SP Ring	1	0.00	0.25	*	4.28	300.00
OBCEN	Centralizer - 29 in.Overbody	02	12.00	2.42	*	19.08	300.00
MSHOE	MULESHOE	GJ01	50.00	3.00		0.00	100.00
HFCS	Hostile Full Wave Sonic Caged Metal and Rubber Standoff	02	7.94	1.33	*	1.44	300.00
Total			**1,620.48**	**79.26**			

* Not Included in Total Length and Length Accumulation

Data: BIRDG_TRACY_3_2\0001 QUAD-BSAT\DLE **Date: 14-Aug-10 17:05:04**

COMPANY	**BRIDGE/PARAMAX**
WELL	**TRACY TRUST #3-2**
FIELD	**HAMILTON**

COUNTY PAYETTE	STATE ID
HALLIBURTON	SPECTRAL DENSITY DUAL SPACED NEUTRON ARRAY COMPENSATED TRUE RESISTIVITY

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