

*** TVD LOG ***

COMPANY	BREITBURN FLORIDA, LLC		
WELL	RED CATTLE 29-7HL PILOT		
FIELD	WEST FELDA		
COUNTY	HENDRY		
STATE	FL		
Permanent Datum	GL	Elev. 29.4 ft	Elev. K.B. 0.0 ft
Log measured from	DF	25.5 ft above perm. Datum	D.F. 54.9 ft
Drilling measured from	DF		G.L. 29.4 ft
Date	19-Apr-12		
Run No.	ONE		
Depth - Driller	12725.00 ft		
Depth - Logger	12714.0 ft		
Bottom - Logged Interval	12892		
Top - Logged Interval	11884		
Casing - Driller	7.625 in @ 12184.0 ft		
Casing - Logger	12184.0 ft		
Bit Size	6.500 in		
Type Fluid in Hole	WATERBASE		
Density	8.9 ppq	41.00 spqt	
PH	10.70 pH	5.8 cpbm	
Source of Sample	MUD TANK		
Rm @ Meas. Temperature	0.350 ohmm @ 75.60 degF		
Rmf @ Meas. Temperature	0.28 ohmm @ 75.60 degF		
Rmc @ Meas. Temperature	0.420 ohmm @ 75.60 degF		
Source Rmf	MEAS	MEAS	
Rm @ BHT	0.12 ohmm @ 214.0 degF		
Time Since Circulation	22.0 hr		
Time on Bottom	19-Apr-12 22:00		
Max. Rec. Temperature	214.0 degF @ 12714.0 ft		
Equipment Location	5674 LAUREL, MS		
Recorded By	ROLAND VALDEZ		
Witnessed By	W/LONG		M. JONES

API No. 09-051-20118-00
 Location SHL 150' FNL & 247' FWL OF SECTION 32
 Sect. 32 Twp. 45S Rge. 29E
 County HENDRY State FL
 Other Services: XRM, RSC, RCBL

Fold here

Service Ticket No.: 9424962		API Serial No.: 09-051-20118-00		PGM Version: WL INSITE R3.4.2 (Build 2)			
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE				RESISTIVITY SCALE CHANGES			
Date	Sample No.			Type Log	Depth	Scale Up Hole	Scale Down Hole
Depth-Driller							
Type Fluid in Hole							
Density	Viscosity						
Ph	Fluid Loss						
Source of Sample				RESISTIVITY EQUIPMENT DATA			
Rm @ Meas. Temp	0.35 ohmm @ 75 degF		@	Run No.	Tool Type & No.	Pad Type	Tool Pos.
Rmf @ Meas. Temp.	0.28 ohmm @ 75 degF		@	ONE	ACRT-9011962z	NONE	1.5 S.O.
Rmc @ Meas. Temp.	0.42 ohmm @ 75 degF		@				
Source Rmf	Rmc	CALC	CALC				
Rm @ BHT	0.12 ohmm @ 214 degF		@				
Rmf @ BHT	0.10 ohmm @ 214 degF		@				
Rmc @ BHT	0.15 ohmm @ 214 degF		@				
EQUIPMENT DATA							
GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.		Run No.	ONE	Run No.	ONE
Serial No.	10889018	Serial No.		Serial No.	10895159	Serial No.	10889021
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.	GTET	Spacing		Log Type	GAM-GAM	Log Type	NEU-NEU
Type	SCINT			Source Type	CS137	Source Type	AM241BE
Length	8"	LSA [Y/N]		Serial No.	5108GW	Serial No.	DSN-356
Distance to Source	9.4'	FWDA [Y/N]		Strength	1.5 CI	Strength	15 CI
LOGGING DATA							

Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix	
	No.	From	To	ft/min	L	R	L		R	L		R	L		R
	ONE	12714	12184	REC	0	100						0.45	-0.15		2.71

DIRECTIONAL INFORMATION

Maximum Deviation @ _____ KOP @ _____

Remarks: NO ANNULAR HOLE VOLUME CALCULATED
 CHLORIDES: 11000 --- SCALES AND PRESENTATIONS AS PER CUSTOMER REQUEST
 LOGGING DONE AS TOOL PUSH OPERATIONS.
 CREW: FOSTER, WEST, LALANDE, --- RIG: PRECISION 314
 THANK YOU FOR USING HALLIBURTON ENERGY SERVICES, LAUREL, MS (801-649-9290)
 DID NOT TOUCH BOTTOM AS PER TOOL PUSH LOGGING PROCEDURES.
 TIED INTO CASING AS PER CUSTOMER REQUEST.
 TVD DATA AS PROVIDED BY CUSTOMER. DATA FROM SCIENTIFIC DRILLING SURVEY DATED 19-APR-12

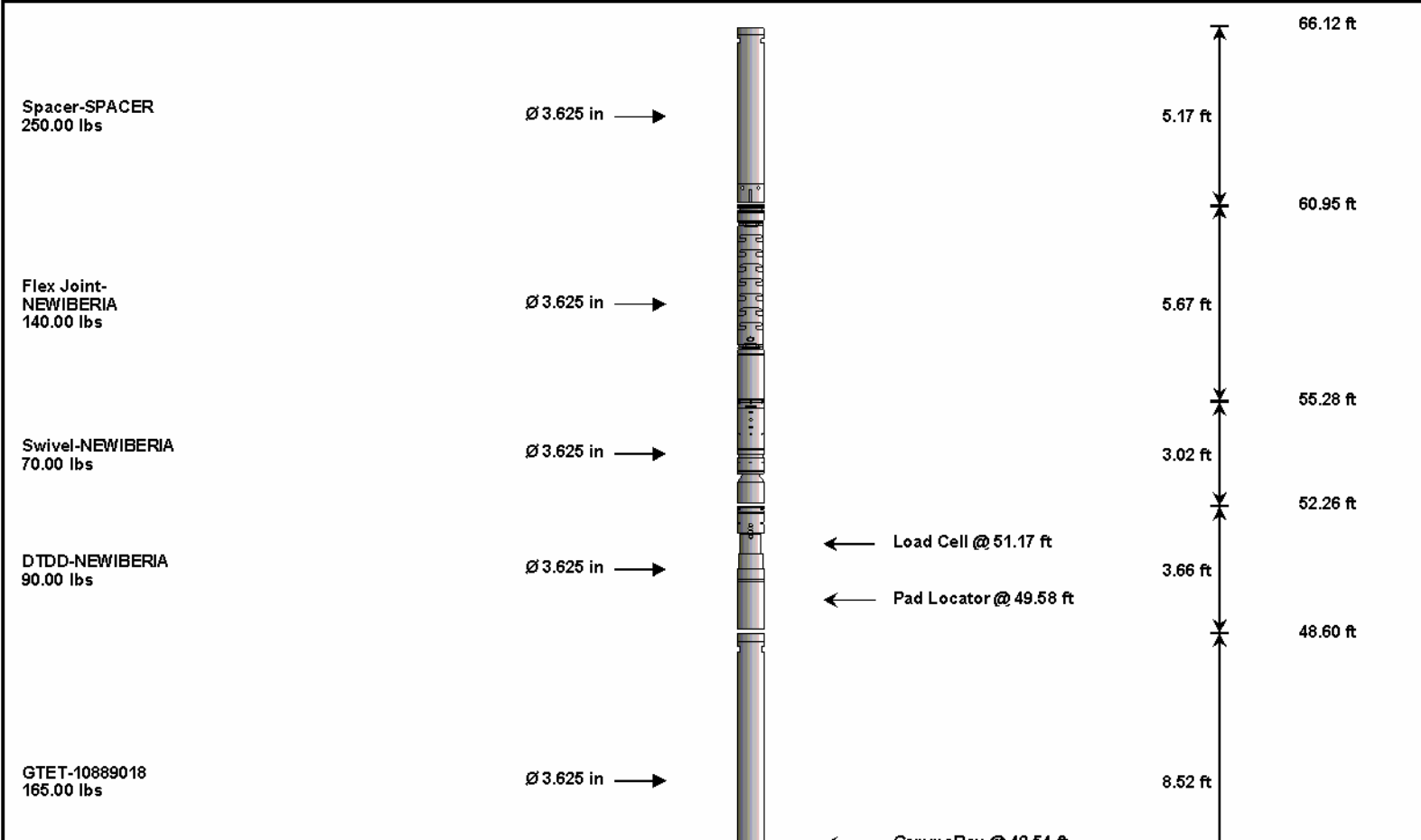
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR 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.

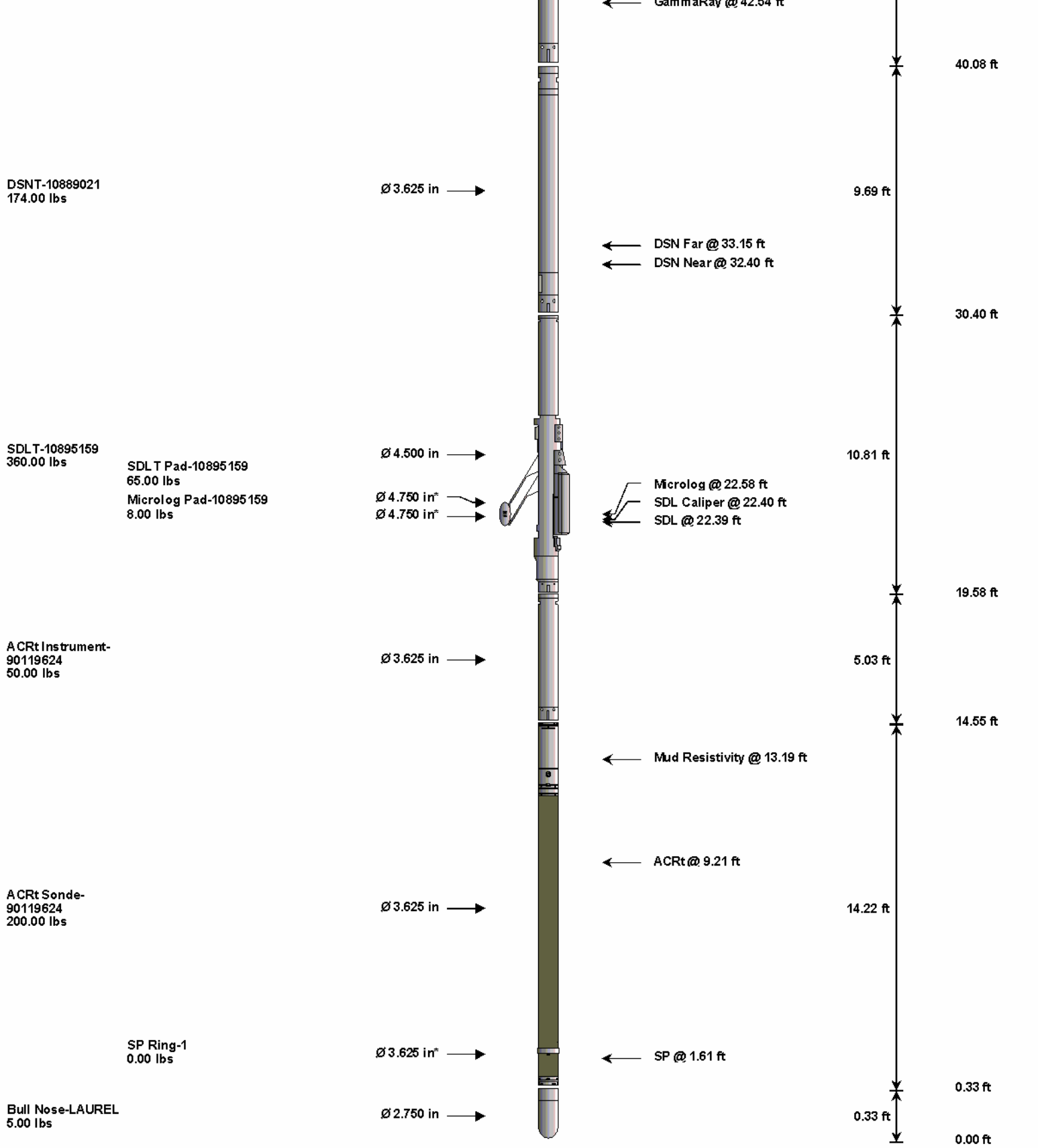
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TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
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Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max. Log. Speed (fpm)
SPC	Test	SPACER	250.00	5.17	60.95	100.00
FLEX	Flex Joint	NEWIBERIA	140.00	5.67	55.28	300.00
SWWL	MCSA-D Multiconductor Swivel	NEWIBERIA	70.00	3.02	52.26	300.00
DTDD	Downhole Tension Device	NEWIBERIA	90.00	3.66	48.60	300.00
GTET	Gamma Telemetry Tool	10889018	165.00	8.52	40.08	60.00
DSNT	Dual Spaced Neutron	10889021	174.00	9.69	30.40	60.00
SDLT	Spectral Density Tool	10895159	360.00	10.81	19.58	60.00
MICP	Microlog Pad	10895159	8.00	1.00	22.08	60.00
SDLP	Density Insite Pad	10895159	65.00	2.55	21.79	60.00
ACRT	Array Compensated True Resistivity Instrument Section	90119624	50.00	5.03	14.55	300.00

ACRT	Array Compensated True Resistivity	90119624	200.0	14.22	0.33	300.00
SP	SP Ring	1	0.00	0.25 *	1.61	300.00
BLNS	Bull Nose	LAUREL	5.00	0.33	0.00	300.00

Total **1,577.00** **66.12**

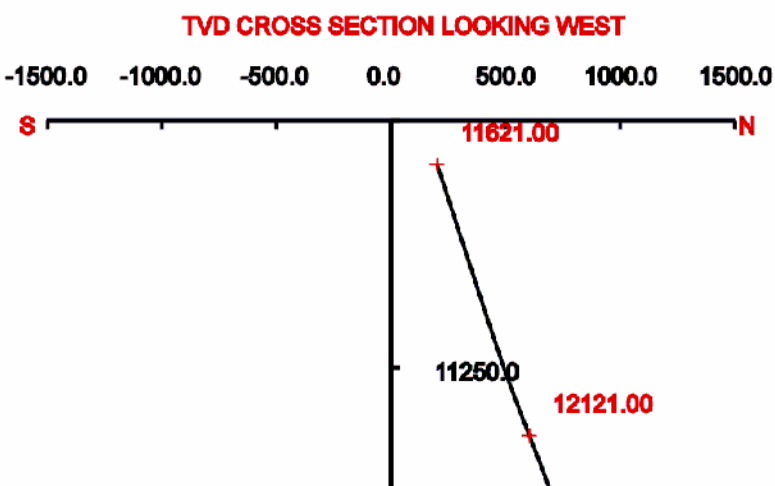
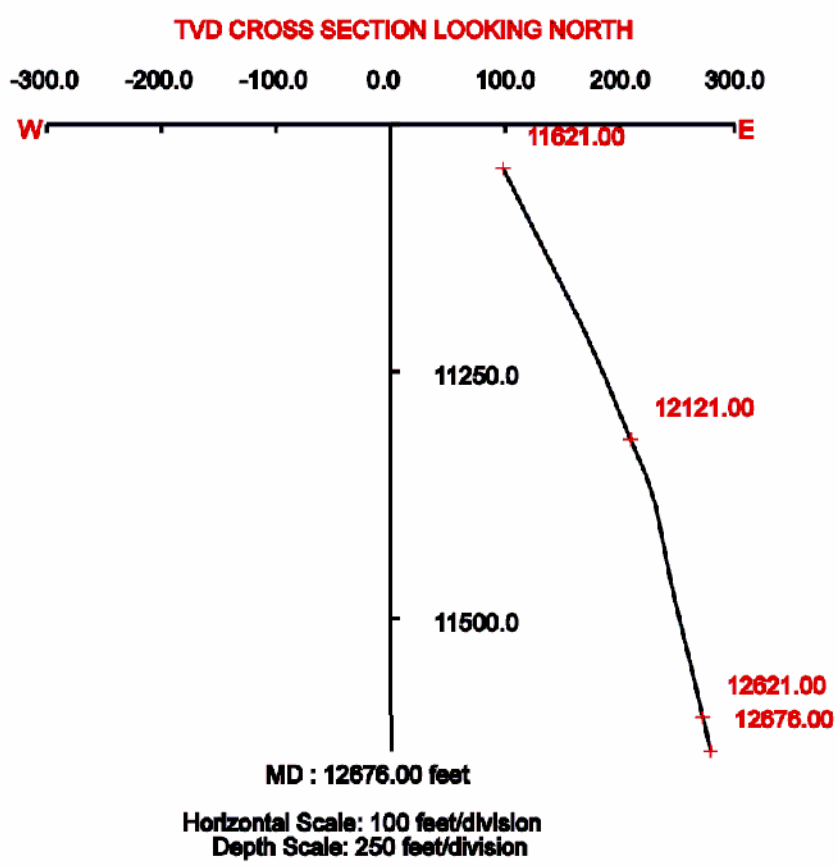
* Not included in Total Length and Length Accumulation.

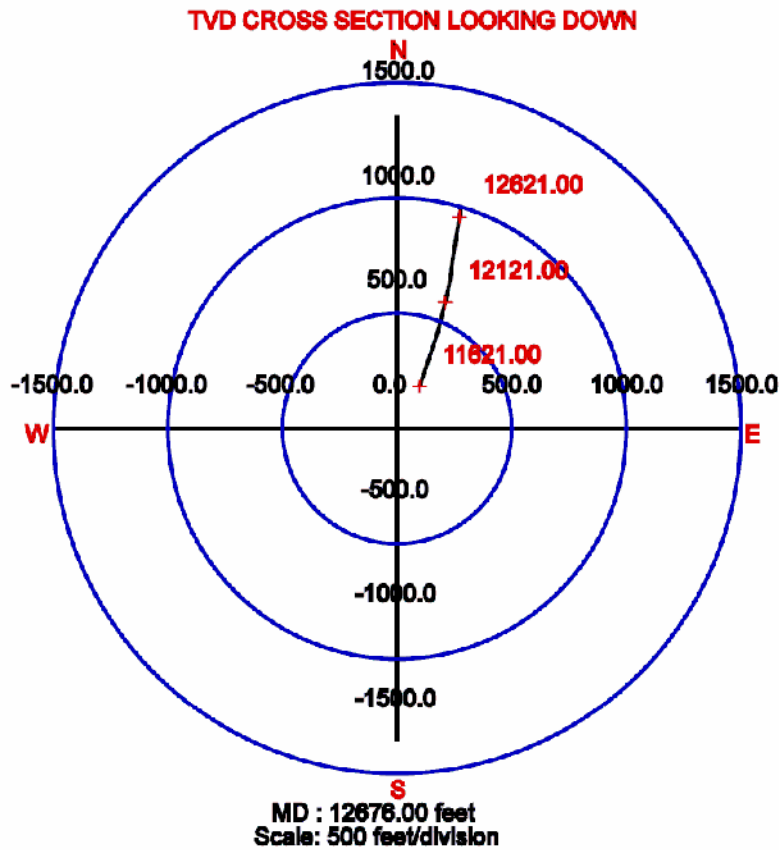
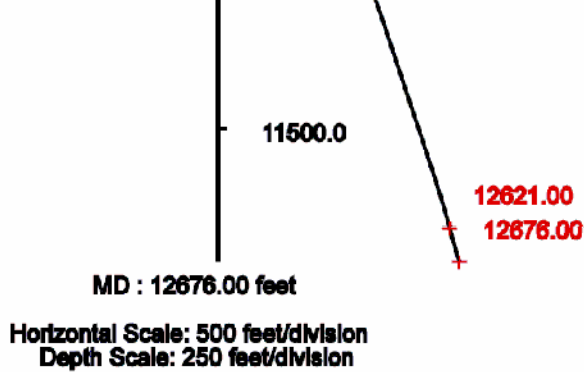
Data: BRE_RC_29-7HLR10001 TRIPLE_GREY_TPL002 20-Apr-12 02:20 Up 12718.5f Date: 20-Apr-12 19:35:46

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TVD SURVEY REPORT

Hole Position Calculation Method:	Minimum Curvature	Tie in Data	Depth:	11525.00	ft
Magnetic Declination:	-5.419 deg		TVD:	10989.02	ft
			Inclination:	53.1	deg
			Azimuth:	13.90	deg
			N/S Departure:	125.60	ft
			E/W Departure:	77.39	ft





Measured Depth (ft)	Inclination (deg)	True Vertical Depth (ft)	Azimuth (deg)	N/S Departure (ft)	E/W Departure (ft)
11621.00	56.0	11044.70	16.80	200.98	98.12
11715.00	55.8	11097.40	17.30	275.40	120.94
11809.00	56.0	11150.10	17.10	349.76	143.96
11903.00	55.3	11203.14	17.10	423.93	166.78
11998.00	57.6	11255.66	12.60	500.43	187.02
12072.00	59.8	11294.10	11.90	562.22	200.43
12160.00	59.9	11338.30	12.60	636.58	216.58
12184.00	59.9	11350.34	12.60	656.85	221.11
12191.00	59.9	11353.85	12.60	662.76	222.43
12253.00	55.2	11387.12	7.54	714.22	231.63
12353.00	55.0	11444.32	6.05	795.67	241.33
12383.00	55.1	11461.51	7.62	820.08	244.26
12417.00	55.5	11480.86	7.90	847.78	248.03
12445.00	55.2	11496.76	8.37	870.59	251.30
12478.00	55.6	11515.51	8.19	897.47	255.21
12511.00	55.5	11534.19	8.46	924.38	259.15
12544.00	54.4	11553.14	8.48	951.10	263.12
12576.00	52.6	11572.16	8.55	976.55	266.93
12608.00	51.9	11591.75	8.70	1001.57	270.73
12637.00	51.8	11609.67	8.73	1024.10	274.18

Horizontal displacement is relative to the well head.
Horizontal displacement (closure) at 12,676.00 ft is 1,090.56 ft along 14.82 deg (Grid).

Data: BRE_RC_29-7HLR1

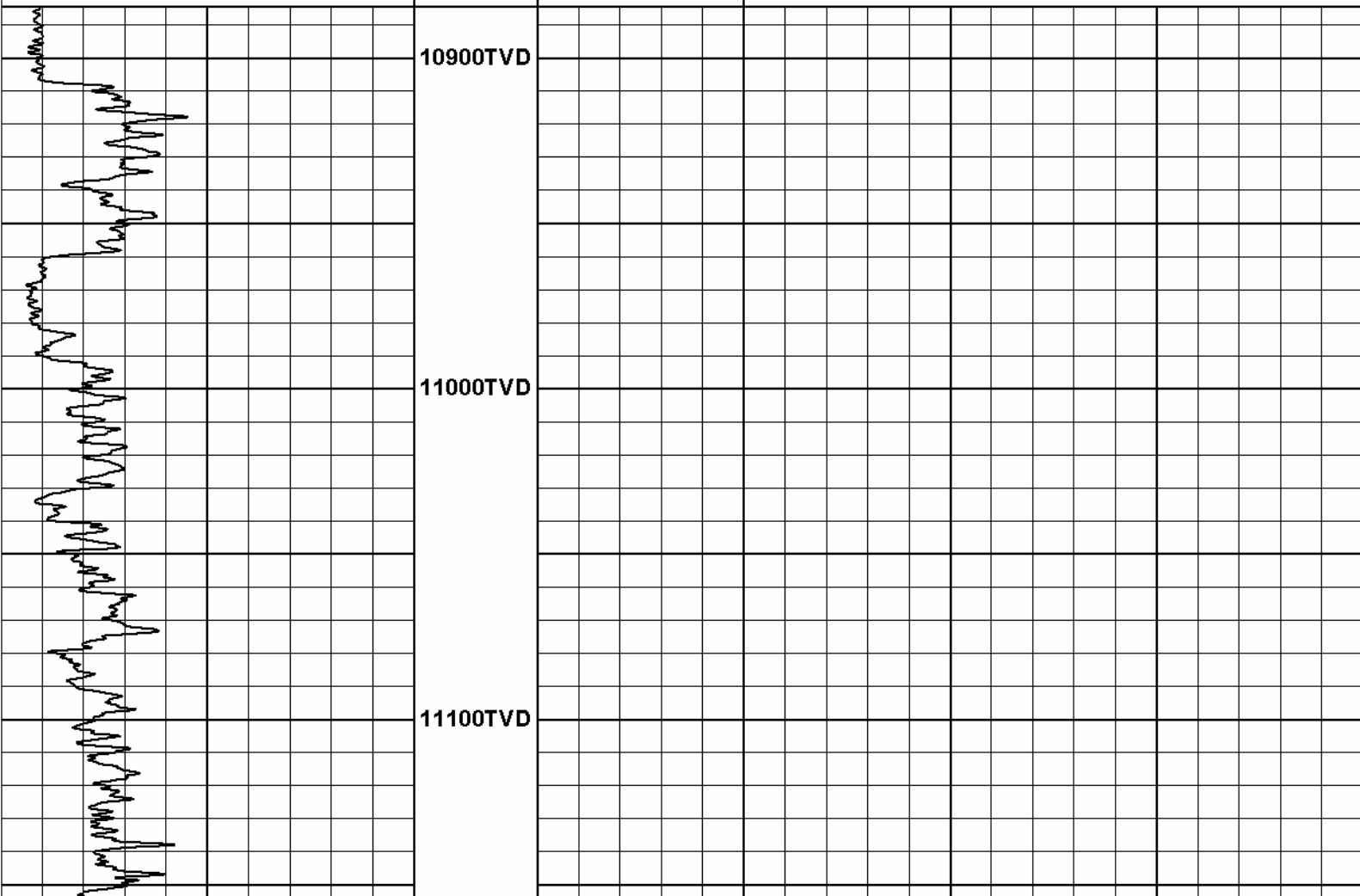
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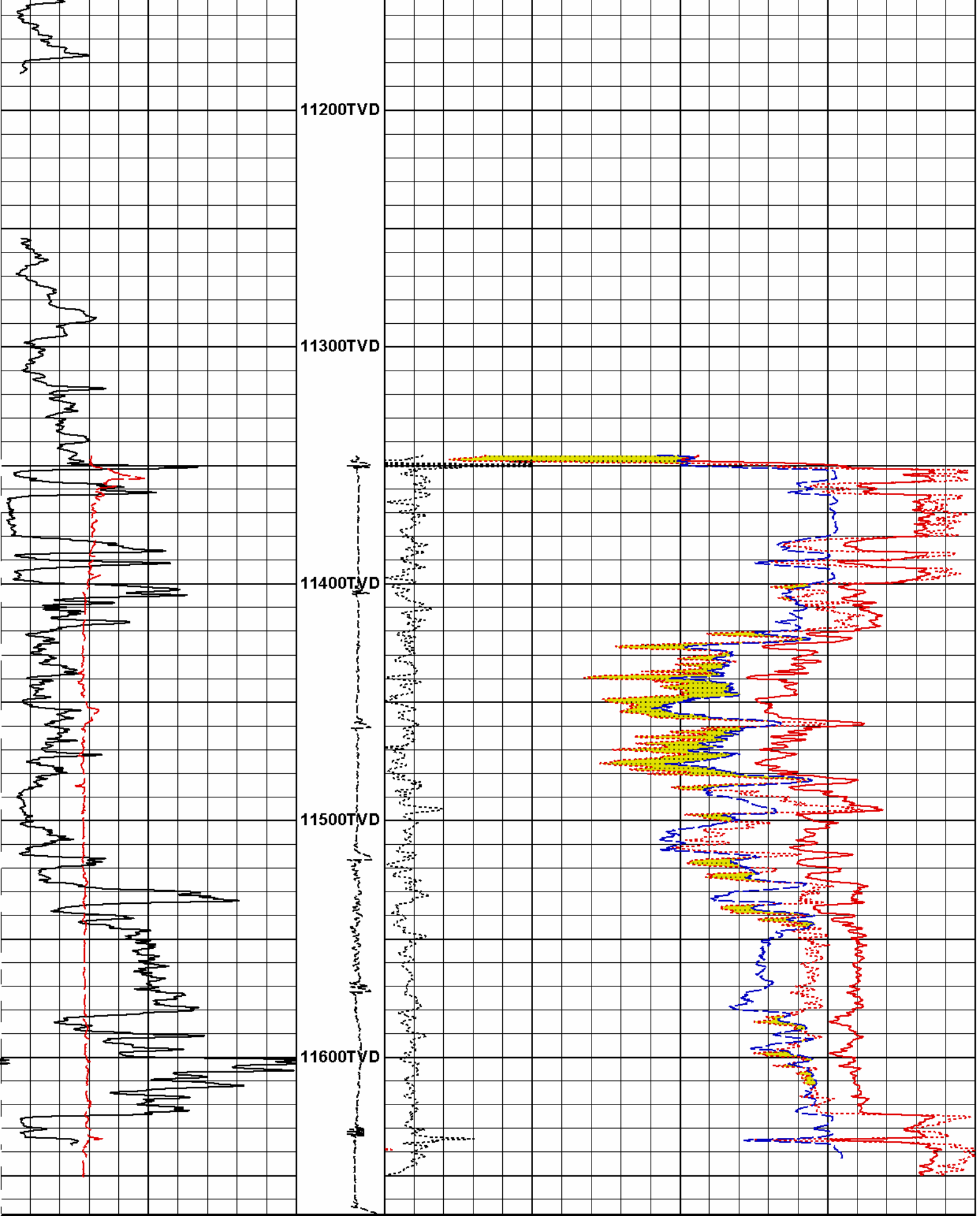
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Plot Time: 09-May-12 14:27:56
Plot Range: 10884.5 ft to 11666.2 ft
Data: BRE_RC_29-7HLR1Well Based[™]
Plot File: \\POROSITY TVD\BREITBURN POROSITY

MAIN PASS 2" = 100'

		0.45	Neutron Porosity (NPH)	-0.15
			v/v	
		0.45	Density Porosity (DPH)	-0.15
			v/v	
4	Caliper	14	5K Tension	0 1
	inches		pounds	
0	Gamma API	100	1 : 600	-0.05 DensityCorr 0.2
	api			
		g/c3		
		Bulk Density (RHOB)		
		3.1		





0	Gamma API	100	1 : 600	-0.05 DensityCorr	0.2
4	Caliper	14	5K	Tension	0 1
				Bulk Density (RHOB)	3.1

inches	pounds	g/c3
		Density Porosity (DPHI) -0.15
		v/v
		Neutron Porosity (NPH) -0.15
		v/v

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Plot Time: 09-May-12 14:28:02
 Plot Range: 10884.5 ft to 11666.2 ft
 Data: BRE_RC_29-7HLR1\Well Based\1
 Plot File: \\POROSITY TVD\BREITBURN POROSITY

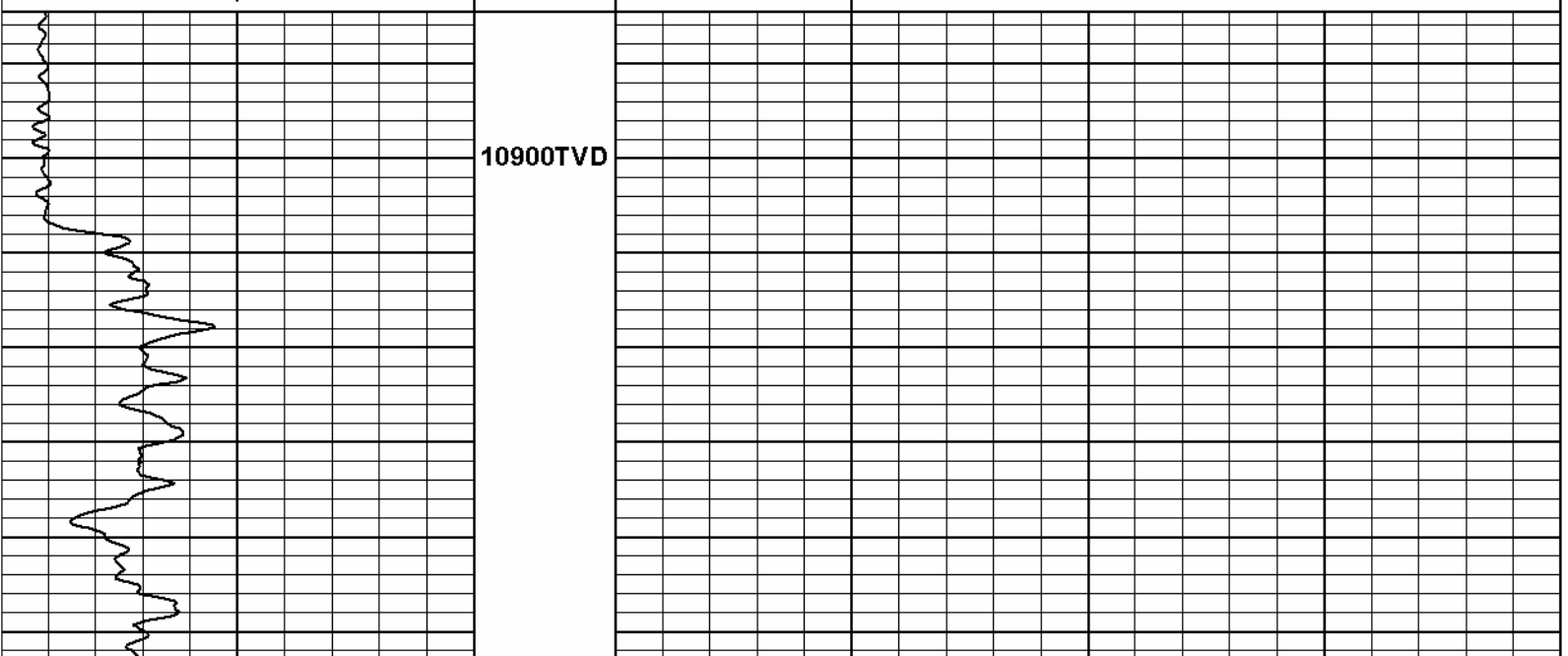
MAIN PASS 2" = 100'

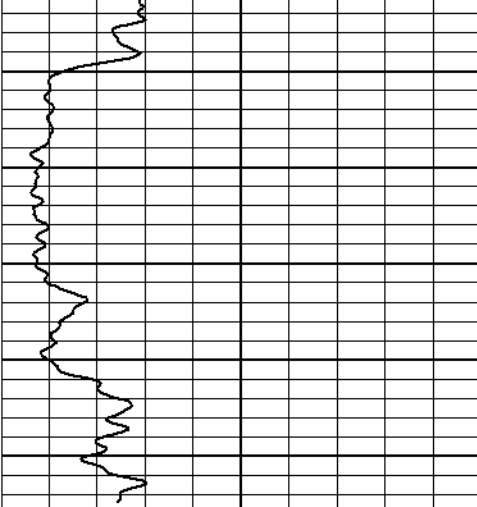
HALLIBURTON

Plot Time: 09-May-12 14:28:02
 Plot Range: 10884.5 ft to 11666.2 ft
 Data: BRE_RC_29-7HLR1\Well Based\1
 Plot File: \\POROSITY TVD\BREITBURN POROSITY

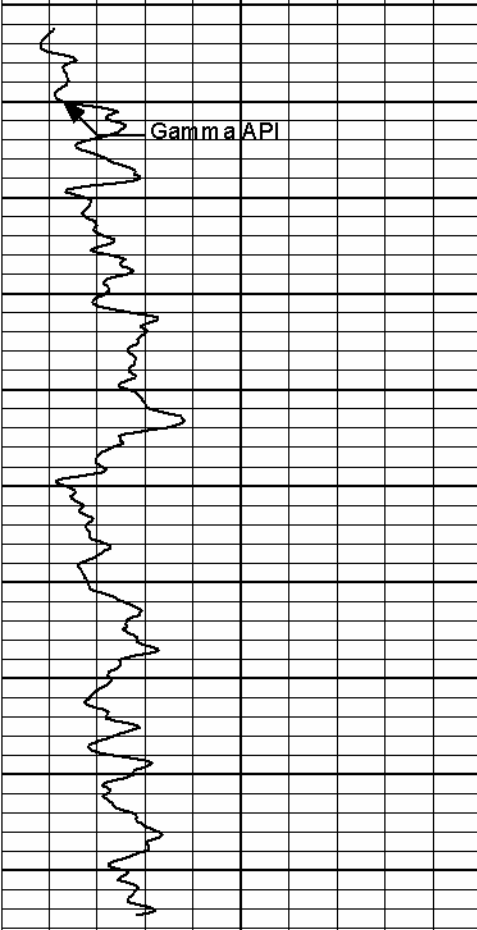
MAIN PASS 5" = 100'

		0.45	Neutron Porosity (NPH)	-0.15
		v/v		
		0.45	Density Porosity (DPHI)	-0.15
		v/v		
4	Caliper	14	5K Tension	0 1
	inches		pounds	
0	Gamma API	100	1 : 240	-0.05 DensityCorr 0.2
	api			



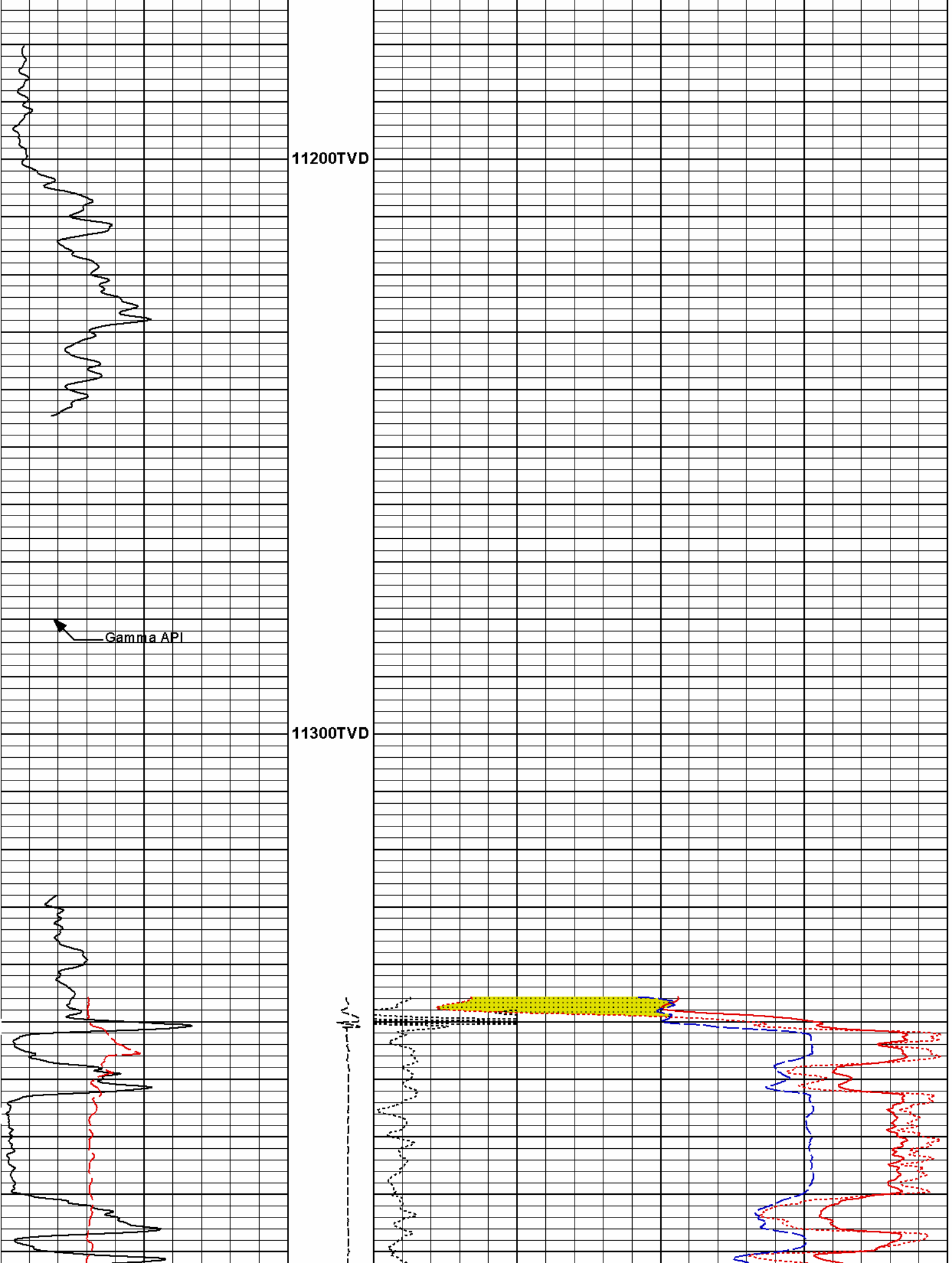


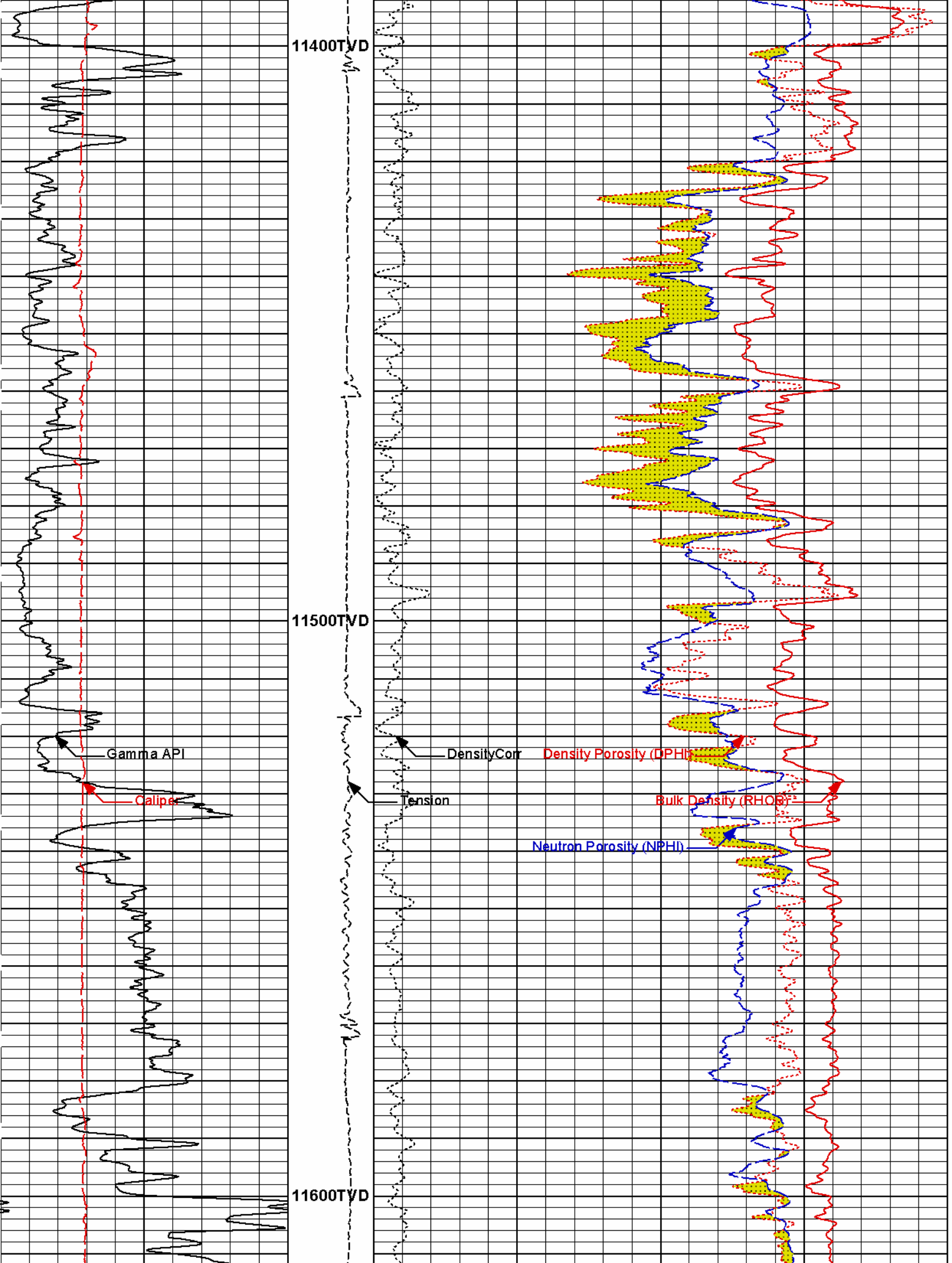
11000TVD

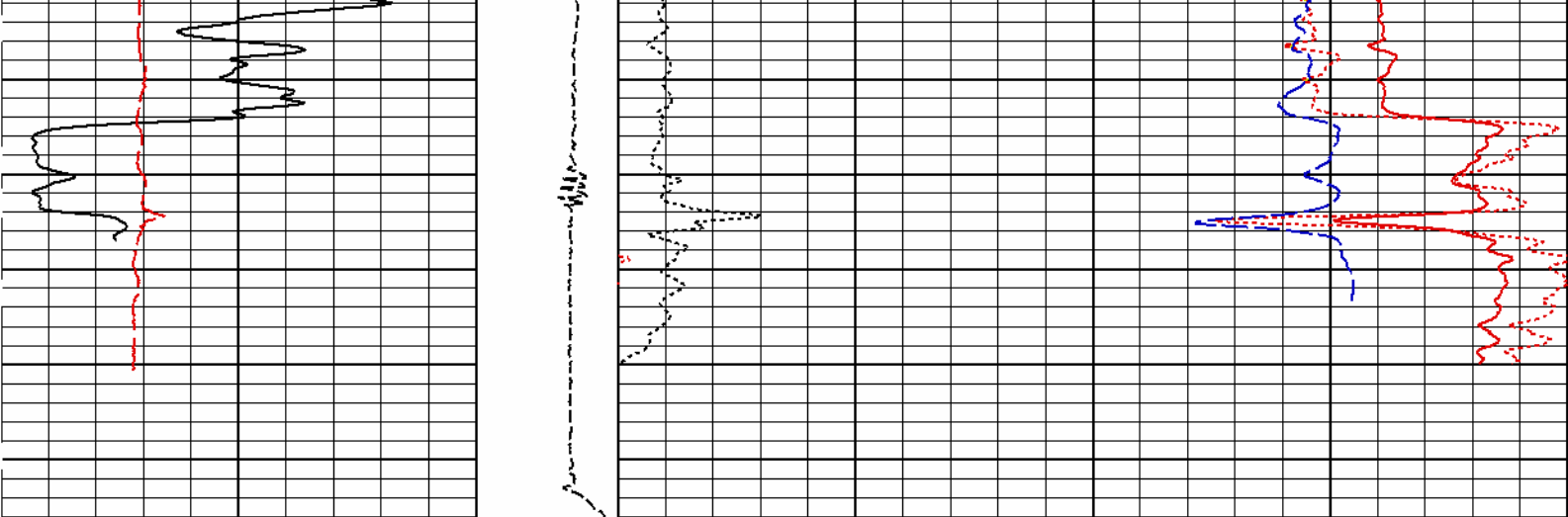


Gamma API

11100TVD







0	Gamma API	100	1 : 240	-0.05 DensityCorr	0.2
	api				
4	Caliper	14	5K Tension	0	1
	inches		pounds		
				Bulk Density (RHOB)	3.1
				g/c3	
				Density Porosity (DPHI)	-0.15
				v/v	
				Neutron Porosity (NPHI)	-0.15
				v/v	

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Plot Time: 09-May-12 14:28:10
 Plot Range: 10884.5 ft to 11666.2 ft
 Data: BRE_RC_29-7HLR11Well Based*1
 Plot File: \\POROSITY TVD\BREITBURN POROSITY

MAIN PASS 5" = 100'

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PARAMETERS REPORT

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	6.500	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	8.900	ppg
	SHARED	WAGT	Weighting Agent	Barite	
	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	12725.00	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	Density	
Rwa / CrossPlot	AFAC	Archie A factor	0.8100	
Rwa / CrossPlot	MFAC	Archie M factor	2.0000	
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	
DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Limestone	
DSNT	DNSO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250	in
DSNT	DNTP	Temperature Correction Type	None	
DSNT	DPRS	DSN Pressure Correction Type	None	
DSNT	SHCO	View More Correction Options	No	
DSNT	UTVD	Use TVD for Gradient Corrections?	No	
DSNT	LHWT	Logging Horizontal Water Tank?	No	
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	
ACRt Sonde	RTOK	Process ACRT?	Yes	
ACRt Sonde	MNSO	Minimum Tool Standoff	1.50	in
ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Up	
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	

BOTTOM

Data: BRE_RC_29-7HLR1\0001 TRIPLE_GREY_TPL\002 20-Apr-12 02:20 Up 12718.5f

Date: 20-Apr-12 11:14:00

CUSTOMER EVENT LOG

Event Type	Time & Date	Depth (ft)	Event Description
	20-Apr-12 01:27:33	11627.25	Logging 001 20-Apr-12 01:27 Dn 11627.3f
	20-Apr-12 02:19:38	12718.45	Halting 001 20-Apr-12 01:27 Dn 11627.3f
	20-Apr-12 02:20:29	12718.50	Logging 002 20-Apr-12 02:20 Up 12718.5f
	20-Apr-12 03:12:08	11623.93	Halting 002 20-Apr-12 02:20 Up 12718.5f

Data: BRE_RC_29-7HLR10001 TRIPLE_GREY_TPL\HW11277 Date: 20-Apr-12 11:15:38

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CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name: GTET - 10889018	Reference Calibration Date: 02-Mar-12 08:28:32
Engineer: ROLAND VALDEZ	Calibration Date: 06-Apr-12 06:59:18
Software Version: WL INSITE R3.4.2 (Build 2)	Calibration Version: 1

Calibrator Source S/N: 115
 Calibrator API Reference: 225.00 api
 Equivalent Calibrator API Reference: 228.9 api

Measurement	Measured	Calibrated	Units
Background	38.6	38.5	api
Background + Calibrator	267.9	267.5	api
Calibrator	229.3	228.9	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name: GTET - 10889018	Reference Calibration Date: 06-Apr-12 06:59:18
Engineer: ROLAND VALDEZ	Calibration Date: 19-Apr-12 12:31:59
Software Version: WL INSITE R3.4.2 (Build 2)	Calibration Version: 1

Calibrator Source S/N: 115
 Calibrator API Reference: 225.00 api
 Equivalent Calibrator API Reference: 228.9 api

Field Verification	Shop	Field	Units
Background	38.5	43.3	api
Background + Calibrator	267.5	269.2	api
Calibrator	228.9	226.0	api

Shop	Field	Difference	Tolerance
228.9	226.0	2.9	+/- 9.00

NATURAL GAMMA RAY TOOL POST CALIBRATION

Tool Name: GTET - 10889018	Reference Calibration Date: 19-Apr-12 12:31:59
Engineer: ROLAND VALDEZ	Calibration Date: 20-Apr-12 10:55:41
Software Version: WL INSITE R3.4.2 (Build 2)	Calibration Version: 1

Calibrator Source S/N: 115
 Calibrator API Reference: 225.00 api
 Calibrator API Reference: 228.9 api

Post Verification	Field	Post	Units
Background	43.3	36.3	api
Background + Calibrator	269.2	264.5	api
Calibrator	226.0	228.2	api

Shop	Field	Post	Difference	Tolerance
228.9	226.0	228.2	-2.2	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name: DSNT - 10889021	Reference Calibration Date: 02-Mar-12 09:03:30
Engineer: MARTY WALLEY	Calibration Date: 02-Mar-12 09:17:30
Software Version: WL INSITE R3.4.2 (Build 2)	Calibration Version: 1

Logging Source S/N: DSN 356
 Tank Serial Number: 105025
 Reference value assigned to Tank: 52.800
 Snow Block S/N: 100132479D
 Calibration Tank Water Temperature: 71 degF
 Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.948	0.951	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):	0.2163	0.2172	0.0009	+/- 0.0020
Calibrated Ratio:	9.91	9.94	0.031	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0731	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 - 10889021	Reference Calibration Date: 02-Mar-12 09:17:30
Engineer: ROLAND VALDEZ	Calibration Date: 19-Apr-12 12:34:28
Software Version: WL INSITE R3.4.2 (Build 2)	Calibration Version: 1

Logging Source S/N: DSN 356
 Snow Block S/N: 100132479D

NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0731	0.0729	-0.0002	+/- 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 - 10889021	Reference Calibration Date: 19-Apr-12 12:34:28
Engineer: ROLAND VALDEZ	Calibration Date: 20-Apr-12 10:58:57

Software Version: WL INSITE R3.4.2 (Build 2)

Calibration Version: 1

Logging Source S/N: DSN 356

Snow Block S/N: 100132479D

NEUTRON POST-CHECK SUMMARY

	Field Value	Post Value	Difference	Control Limit On Change
Snow-Block Porosity (decg):	0.0729	0.0680	-0.0049	+/- 0.0150

PASS/FAIL SUMMARY

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

DENSITY CALIPER SHOP CALIBRATION

Tool Name: SDLT - 10895159 Reference Calibration Date: 09-Mar-12 13:54:38

Engineer: ROLAND VALDEZ Calibration Date: 17-Apr-12 00:55:15

Software Version: WL INSITE R3.4.2 (Build 2) Calibration Version: 1

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-2240.11	-2759.10	-7000.00 - -1000.00
Pad Gain	0.0003948	0.0004027	0.000200 - 0.000600
Arm Offset	-1087.84	871.01	-5000.00 - 3000.00
Arm Gain	0.0005070	0.0003653	0.000300 - 0.000700
Arm Power	-0.000004652	0.000007765	-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)	2.17	2.00	-0.17	+/- 0.20
Medium Ring (in)	3.88	3.75	-0.13	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.41	6.50	0.09	+/- 0.20
Medium Ring (in)	8.41	8.25	-0.16	+/- 0.20
Large Ring (in)	14.92	15.00	0.08	+/- 0.20

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 - 10895159 Reference Calibration Date: 17-Apr-12 00:55:15

Engineer: ROLAND VALDEZ Calibration Date: 19-Apr-12 12:37:38

Software Version: WL INSITE R3.4.2 (Build 2) Calibration Version: 1

MEASURED CALIPER VALUES

Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.71	-0.04	+/- 0.10

Ring Diameter

8.25

8.19

-0.06

+/- 0.15

PASS/FAIL SUMMARY

Pad Extension Check: Passed
Diameter Check: Passed

SDLT CALIPER POST CALIBRATION

Tool Name: **SDLT - 10895159** Reference Calibration Date: **19-Apr-12 12:37:38**
Engineer: **ROLAND VALDEZ** Calibration Date: **20-Apr-12 11:01:59**
Software Version: **WL INSITE R3.4.2 (Build 2)** Calibration Version: **1**

MEASURED CALIPER VALUES

Measurement	Field	Post	Change	Control Limit On New Value
Pad Extension	3.71	3.79	0.08	+/- 0.10
Ring Diameter	8.19	8.15	-0.04	+/- 0.15

PASS/FAIL SUMMARY

Pad Extension Check: Passed
Diameter Check: Passed

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name: **ACRt Sonde - 90119624** Reference Calibration Date: **20-Sep-11 09:51:41**
Engineer: **MARTY WALLEY** Calibration Date: **01-Mar-12 16:04:19**
Software Version: **WL INSITE R3.4.2 (Build 2)** 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	0.9971	1.05	0.95	0.9992	1.05	0.95	0.9960	1.05
A2 (50")	0.95	1.0232	1.05	0.95	1.0248	1.05	0.95	1.0236	1.05
A3 (29")	0.95	1.0108	1.05	0.95	1.0116	1.05	0.95	1.0099	1.05
A4 (17")	0.95	1.0051	1.05	0.95	1.0050	1.05	0.95	1.0063	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.9902	1.05	0.95	0.9913	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9983	1.05	0.95	1.0004	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	-1.598	2	-6	-4.649	-2	-8	-4.417	-2
A2 (50")	-7	-2.135	-1	-6	-3.590	-2	-7	-5.045	-2
A3 (29")	-27	-13.204	-9	-9	-3.838	-3	-7	-3.236	-1
A4 (17")	-180	-105.646	-60	-45	-33.856	-15	-39	-26.697	-13
A5 (10")	N/A	N/A	N/A	-150	-111.518	-50	-80	-53.492	-10
A6 (6")	N/A	N/A	N/A	175	318.043	525	90	154.344	270

TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper
12K	0.6	0.8745	1.3
36K	1.0	1.2324	2.0
72K	1.0	1.5222	2.0

R-MUD VERIFICATION

Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
Mud Cell	0.95	0.997	1.05

SPECTRAL DENSITY SHOP CALIBRATION

Logging Source S/N: 5108 GW

Aluminum Block S/N: 63075

Density: 2.599g/cc

Pe: 3.170

Magnesium Block S/N: 63366

Density: 1.680g/cc

Pe: 2.650

DENSITY CALIBRATION SUMMARY

Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0905	1.0570	0.90 - 1.10
Near Dens Gain	1.0382	1.0236	0.90 - 1.10
Near Peak Gain	1.0336	1.0119	0.90 - 1.10
Near Lith Gain	1.0061	0.9956	0.90 - 1.10
Far Bar Gain	1.0246	1.0234	0.90 - 1.10
Far Dens Gain	1.0113	1.0096	0.90 - 1.10
Far Peak Gain	1.0063	1.0046	0.90 - 1.10
Far Lith Gain	0.9871	0.9895	0.90 - 1.10

Near Bar Offset	-0.7545	-0.4480	NONE
Near Dens Offset	-0.3036	-0.1735	NONE
Near Peak Offset	-0.2752	-0.0924	NONE
Near Lith Offset	-0.0696	0.0161	NONE
Far Bar Offset	-0.2190	-0.2100	NONE
Far Dens Offset	-0.0911	-0.0769	NONE
Far Peak Offset	-0.0565	-0.0436	NONE
Far Lith Offset	0.0768	0.0573	NONE

Near Bar Background	845.43	843.36	700 - 1450
Near Dens Background	278.35	278.30	230 - 480
Near Peak Background	118.85	120.82	100 - 210
Near Lith Background	148.78	149.24	125 - 260
Far Bar Background	507.52	507.03	450 - 900
Far Dens Background	200.75	198.35	175 - 345
Far Peak Background	80.50	79.68	70 - 140
Far Lith Background	82.58	83.46	75 - 145

CALIBRATION BLOCK SUMMARY

Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.683	1.680	-0.003	+/- 0.015
Pe	2.609	2.607	-0.002	+/- 0.150
ALUMINUM				
Density (g/cc)	2.598	2.599	0.001	+/- 0.01500
Pe	3.109	3.126	0.017	+/- 0.150

TOOL SUMMARY

Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0006	+/- 0.0110	-0.0007	+/- 0.0140
Magnesium Block	-0.0003	+/- 0.0110	-0.0010	+/- 0.0140
Aluminum Block	-0.0011	+/- 0.0110	0.0017	+/- 0.0140

Resolution	10.00	6.00 - 11.50	9.27	6.00 - 11.50
Internal Verifier(B+D+P+L)	1392	1200 - 2700	869	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 - 10895159	Reference Calibration Date: 09-Mar-12 13:27:24
Engineer: ROLAND VALDEZ	Calibration Date: 19-Apr-12 12:31:39
Software Version: WL INSITE R3.4.2 (Build 2)	Calibration Version: 1

Pad Temperature: 96.4 degF

DENSITY FIELD CALIBRATION SUMMARY

Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1391.711	1393.230	1.519	15.069
Far (B+D+P+L) cps	868.510	871.306	2.796	16.114
Near Resolution	10.00	10.01	0.010	0.50
Far Resolution	9.27	9.48	0.210	1.00

PASS/FAIL SUMMARY

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

SPECTRAL DENSITY POST CHECK

Tool Name: SDLT Pad - 10895159	Reference Calibration Date: 19-Apr-12 12:31:39
Engineer: ROLAND VALDEZ	Calibration Date: 20-Apr-12 10:55:46
Software Version: WL INSITE R3.4.2 (Build 2)	Calibration Version: 1

Pad Temperature: 95.6 degF

DENSITY POST CALIBRATION SUMMARY

Measurement	Field	Post	Change	Control Limit +/-
Near (B+D+P+L) cps	1393.230	1389.823	-3.407	15.069
Far (B+D+P+L) cps	871.306	872.619	1.313	16.114
Near Resolution	10.01	9.95	-0.060	0.50
Far Resolution	9.48	9.28	-0.200	1.00

PASS/FAIL SUMMARY

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

MICRO LOG SHOP CALIBRATION

Tool Name: Microlog Pad - 10895159	Reference Calibration Date: 09-Mar-12 13:56:43
Engineer: ROLAND VALDEZ	Calibration Date: 17-Apr-12 01:00:42

CALIBRATION COEFFICIENT SUMMARY

Measurement	Micro Log Normal		Micro Log Lateral		Units
	Measured	Calibrated	Measured	Calibrated	
Tool Zero	-0.08	-0.08	-0.01	0.00	ohmm
Calibration Point #1	0.20	0.20	0.19	0.20	ohmm
Calibration Point #2	20.02	20.00	20.03	20.00	ohmm
Internal Reference	19.95	19.93	20.01	19.99	ohmm

Measurement	Micro Log Normal Tool Value		Micro Log Lateral Tool Value		Units
	Tool Zero	-0.08	0.16		
Calibration Point #1	74.36	69.21		V	
Calibration Point #2	5343.61	6933.87		V	
Internal Reference	5324.62	6928.90		V	

MICRO LOG FIELD CHECK

Tool Name:	Microlog Pad - 10895159	Reference Calibration Date:	17-Apr-12 01:00:42
Engineer:	ROLAND VALDEZ	Calibration Date:	19-Apr-12 12:33:17
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Measurement	Micro Log Normal		Micro Log Lateral		Units
	Shop	Field	Shop	Field	
Tool Zero	-0.08	-0.08	0.00	0.00	ohmm
Internal Reference	19.93	19.98	19.99	20.04	ohmm

Summary				
Signal	Shop	Field	Difference	Tolerance
Microlog Normal	19.93	19.98	-0.05	+/- 0.80
Microlog Lateral	19.99	20.04	-0.05	+/- 0.80

MICRO LOG POST CHECK

Tool Name:	Microlog Pad - 10895159	Reference Calibration Date:	19-Apr-12 12:33:17
Engineer:	ROLAND VALDEZ	Calibration Date:	20-Apr-12 10:58:15
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Measurement	Micro Log Normal		Micro Log Lateral		Units
	Field	Post	Field	Post	
Tool Zero	-0.08	-0.07	0.00	0.01	ohmm
Internal Reference	19.98	20.01	20.04	20.07	ohmm

Summary				
Signal	Field	Post	Difference	Tolerance
Microlog Normal	19.98	20.01	0.03	+/- 0.80
Microlog Lateral	20.04	20.07	0.03	+/- 0.80

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-10889018						
Gamma Ray Calibrator	228.9	226.0	228.2	-2.2	+/- 9.00	api
DSNT-10889021						
Snow-Block Porosity	0.0731	0.0729	0.0680	0.0049	+/- 0.0150	decp
SDLT-10895159						

Pad Extension	3.75	3.71	3.79	-0.08	+/-0.10	in
Ring Diameter	8.25	8.19	8.15	0.040	+/-0.15	in
ACRt Sonde-90119624						
Mud Cell	0.997	-----	-----	0.000	-----	ohm-m
SDLT Pad-10895159						
Near(B+D+P+L)	1391.711	1393.230	1389.823	3.407	+/-15.069	cps
Far(B+D+P+L)	868.510	871.306	872.619	-1.313	+/-16.114	cps
Microlog Pad-10895159						
MicroLog Normal	19.93	19.98	20.01	-0.03	+/-0.80	ohmm
MicroLog Lateral	19.99	20.04	20.07	-0.03	+/-0.80	ohmm
Data: BRE_RC_29-7HLR1\0001 TRIPLE_GREY_TPL\IDLE				Date: 20-Apr-12 11:10:26		

HALLIBURTON

DEPTH SUMMARY REPORT

Depth Measuring System			
Depth Panel Type:	WSDP 2.04	Software Version:	JUN 24 2009 01:01:01
Encoder 1 Enabled?:	Yes	Serial Number:	
Encoder 1 Correction Enabled?:	Yes	Encoder 2 Enabled?:	Yes
Encoder 1 Correction Factor:	0.000 ft / 1000 ft	Encoder 2 Correction Enabled?:	Yes
		Encoder 2 Correction Factor:	0.000 ft / 1000 ft
Logging Cable Information			
Cable Type:	7H47RX		
Cable Weight:	392.00 lbsp1000ft	Stretch Coefficient:	0.065 ft/100ft/1000lb
Breaking Strength:	23,100 lbs	Cable Maximum Safe Pull:	11,550 lbs
Tool String Weight in Fluid:	1577.00 lbs	Mechanical Weakpoint:	8,000 lbs
Depth Control - Logging Up			
Conveyance:	Wireline		
Cable Stretch Correction Applied?:	Standard	Magnetic Mark Correction Applied?:	Yes
Corrected to:	Pipe Depth	Magnetic Mark Interval:	100 ft
Bottom Depth:	12,718.44 ft	Top Depth:	11,622.54 ft
Stretch Applied:	14.19 ft	Stretch Applied:	12.22 ft
Mark Information			
No FIRST MARK Found			
Deepest Mark found at:	12519.34 ft	Shallowest Mark found at:	12018.29 ft
Tension at Mark Depth:	1281.2 lbs	Tension at Mark Depth:	1519.1 lbs
Stretch Applied at Mark Depth:	13.8 ft	Stretch Applied at Mark Depth:	12.9 ft
Data: BRE_RC_29-7HLR1\0001 TRIPLE_GREY_TPL\002 20-Apr-12 02:20 Up 12718.5f		Date: 20-Apr-12 11:17:47	

COMPANY	BREITBURN FLORIDA, LLC		
WELL	RED CATTLE 29-7HL PILOT		
FIELD	WEST FELDA		
COUNTY	HENDRY	STATE	FL
HALLIBURTON		SPECTRAL DENSITY DUAL SPACED NEUTRON	
*** TVD LOG ***			