HALLIBURTON

ANNULAR HOLE VOLUME PLOT

COMPANY CONCORDE RESOURCES CORP.
WELL MCDANIEL 1-12
FIELD/BLOCK WILDCAT
COUNTY LOGAN
STATE KANSAS

COMPANY	CONCORDE RESOURCES CORP.
WELL	MCDANIEL 1-12
FIELD/BLOCK	WILDCAT
COUNTY	LOGAN STATE KANSAS

API No. 15-109-21429-00-00
Location (SHL) 2665' FNL & 2191' FWL
NW-NE-NE-SW

Other Services:
DSN / SDL
MICROLOG
BSAT
ACRT

Permanent Datum	GL	Elev. 2848.0 ft	Elev.: K.B. 2853.0 ft
Log measured from	KB	5.0 ft above perm. Datum	D.F. 2852.0 ft
Drilling measured from	KB		G.L. 2848.0 ft

Date		28-Aug-15				
Run No.		ONE				
Depth - Driller		4560.00 ft				
Depth - Logger		4560.0 ft				
Bottom - Logged Interval		4516				
Top - Logged Interval		300				
Casing - Driller		8.625 in @ 303.0 ft		@		@
Casing - Logger		300.0 ft				
Bit Size		7.875 in		@		@
Type Fluid in Hole		Water Based Mud				
Density	Viscosity	9.2 ppg	53.00 s/qt			
PH	Fluid Loss	9.70 pH	11.2 cptm			
Source of Sample		MUD PIT				
Rm @ Meas. Temperature		0.465 ohmm @ 81.00 degF		@		@
Rmf @ Meas. Temperature		0.45 ohmm @ 68.00 degF		@		@
Rmc @ Meas. Temperature		0.903 ohmm @ 72.00 degF		@		@
Source Rmf	Rmc	MEASURED	MEASURED			
Rm @ BHT		0.31 ohmm @ 126.0 degF		@		@
Time Since Circulation		4.0000 hr				
Time on Bottom		28-Aug-15 13:49:30.000				
Max. Rec. Temperature		126.0 degF @ 4560.0 ft		@		@
Equipment	Location	11230668	LIBERAL			
Recorded By		SHELDON INGERSOLL				
Witnessed By		S. MURPHY				

Fold here

Service Ticket No.: 902705324 API Serial No.: 15-109-21429-00-00 PGM Version: WL INSITE R4.6.4 (Build 3)

CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE

Date				
Sample No.				
Depth-Driller				
Type Fluid in Hole				
Density	Viscosity			
Ph	Fluid Loss			
Source of Sample				
Rm @ Meas. Temp		@	@	@
Rmf @ Meas. Temp.		@	@	@
Rmc @ Meas. Temp.		@	@	@
Source Rmf	Rmc			
Rm @ BHT		@	@	@
Rmf @ BHT		@	@	@
Rmc @ BHT		@	@	@

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	N/A	CENT	
		10929775			
	ONE	MICROLOG	RUBBER	ADJACENT	
		10673803			

EQUIPMENT DATA

	GAMMA	ACOUSTIC	DENSITY	NEUTRON
Run No.	ONE	ONE	ONE	ONE
Serial No.	10811258	10939064	10673790	10735145
Model No.	GTET	BSAT	SDLT	DSNT
Diameter	3.625"	2	5.3"	3.625"
Detector Model No.	T-102	.5'	GAM-GAM	NEU-NEU
Type	SCINT		CS-137	AM-241BE
Length	8"	LSA [Y/N]	5073GW	DSN-436
Distance to Source	N/A	FWDA [Y/N]	1.5 CI	15 CI

LOGGING DATA

	GENERAL				GAMMA		ACOUSTIC		DENSITY		NEUTRON	
	Run No.	Depth From	Depth To	Speed ft/min	Scale L	Scale R	Scale L	Scale R	Scale L	Scale R	Scale L	Scale R
	ONE	TD	CSG	REC	0	150	30	-10	30	-10	30	-10
Matrix							47.6 us/ft		2.71 gm/cc		LIME	

DIRECTIONAL INFORMATION

Maximum Deviation	@	KOP	@

Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING.

CHLORIDES REPORTED AT 11000 ppm.

LCM REPORTED AT 1.5 #/bbl.

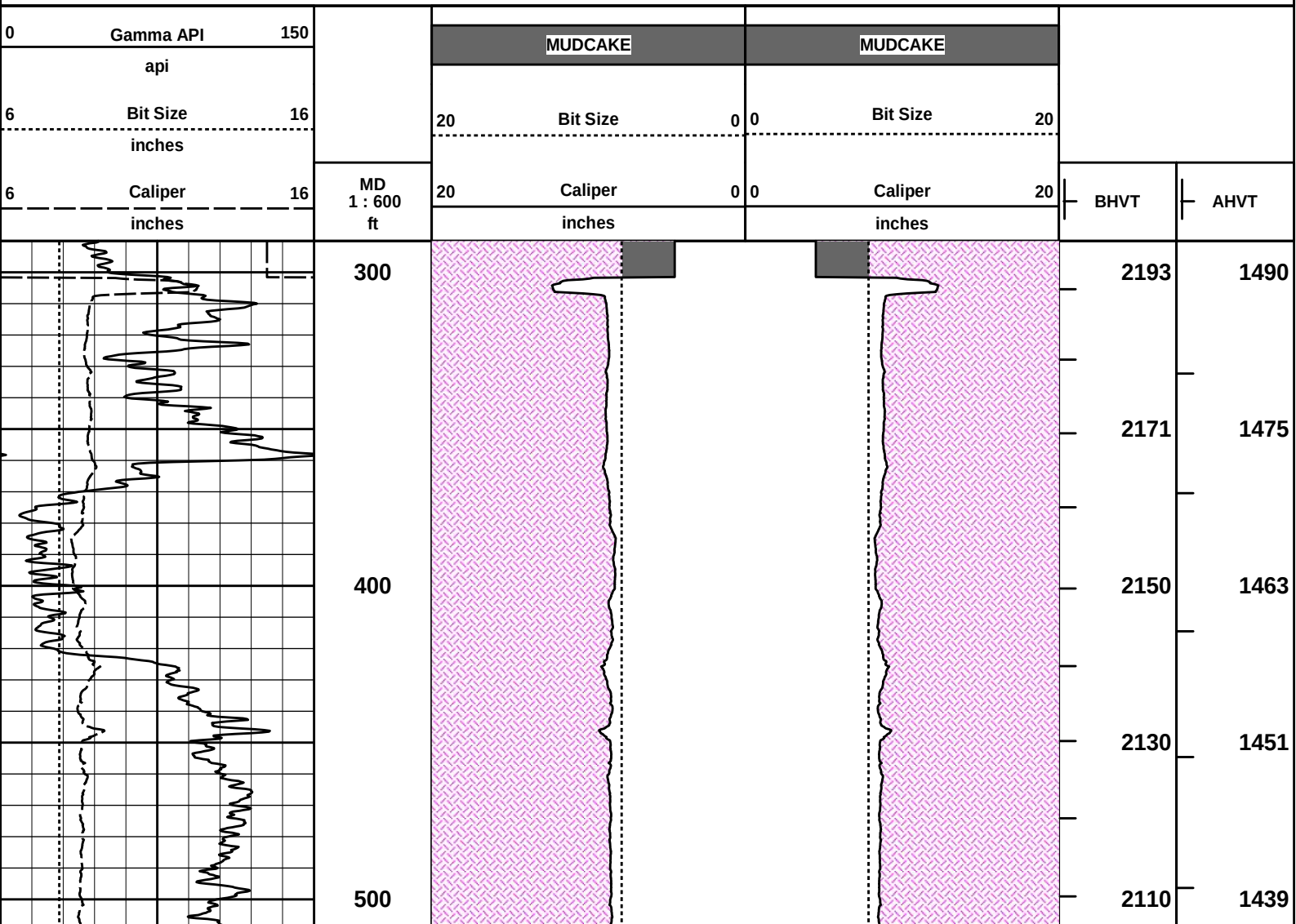
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR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

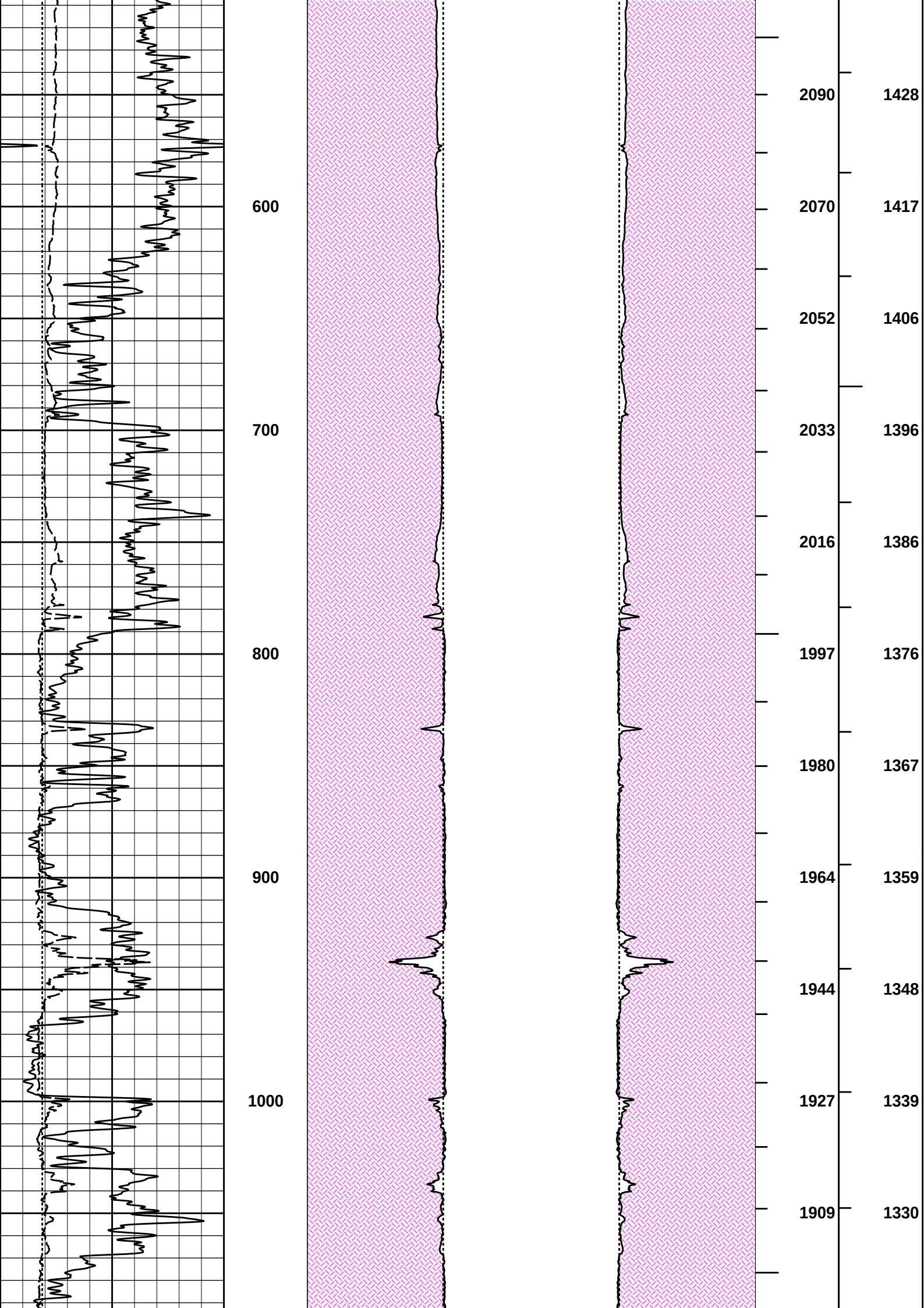
HALLIBURTON

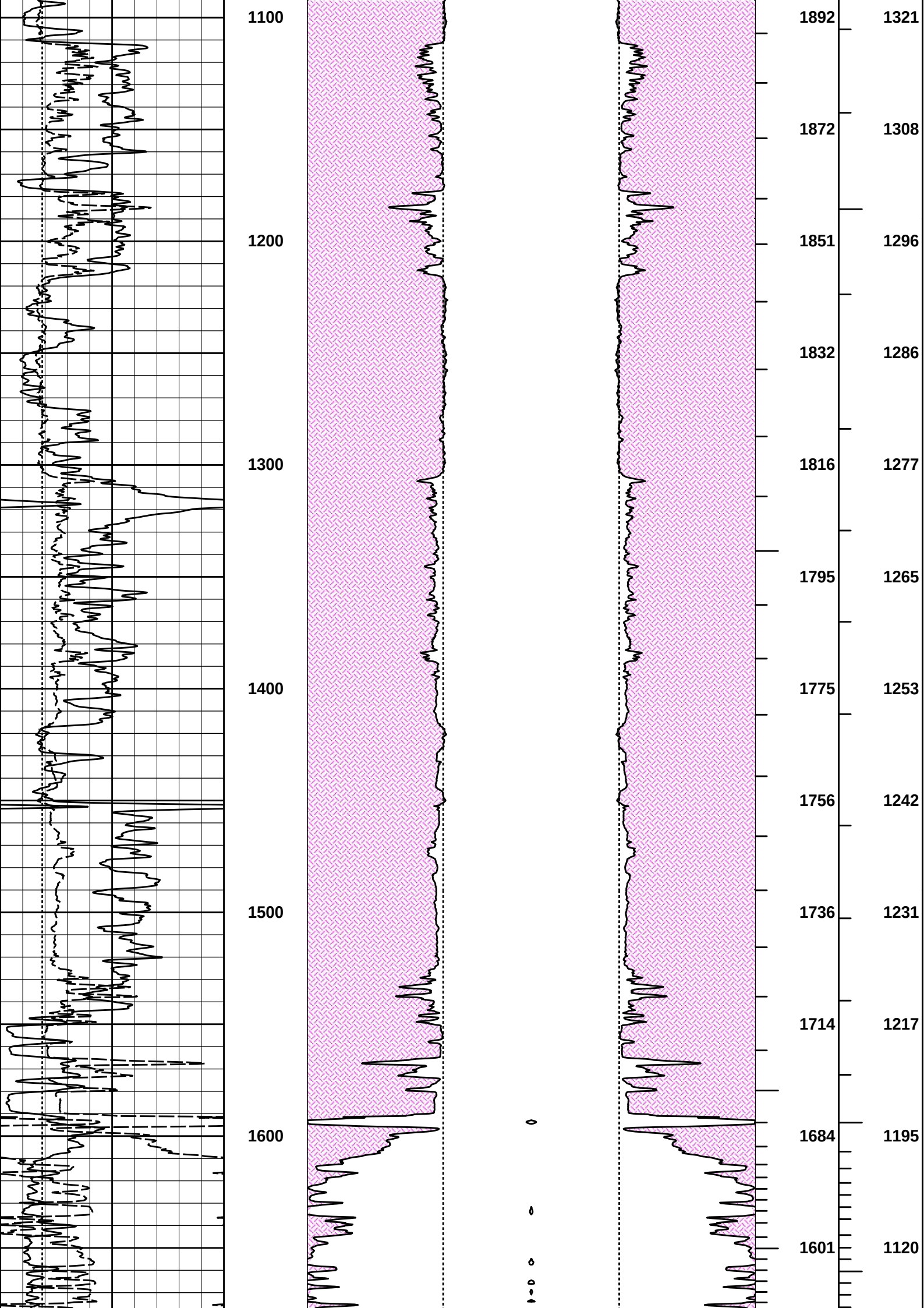
HALLIBURTON

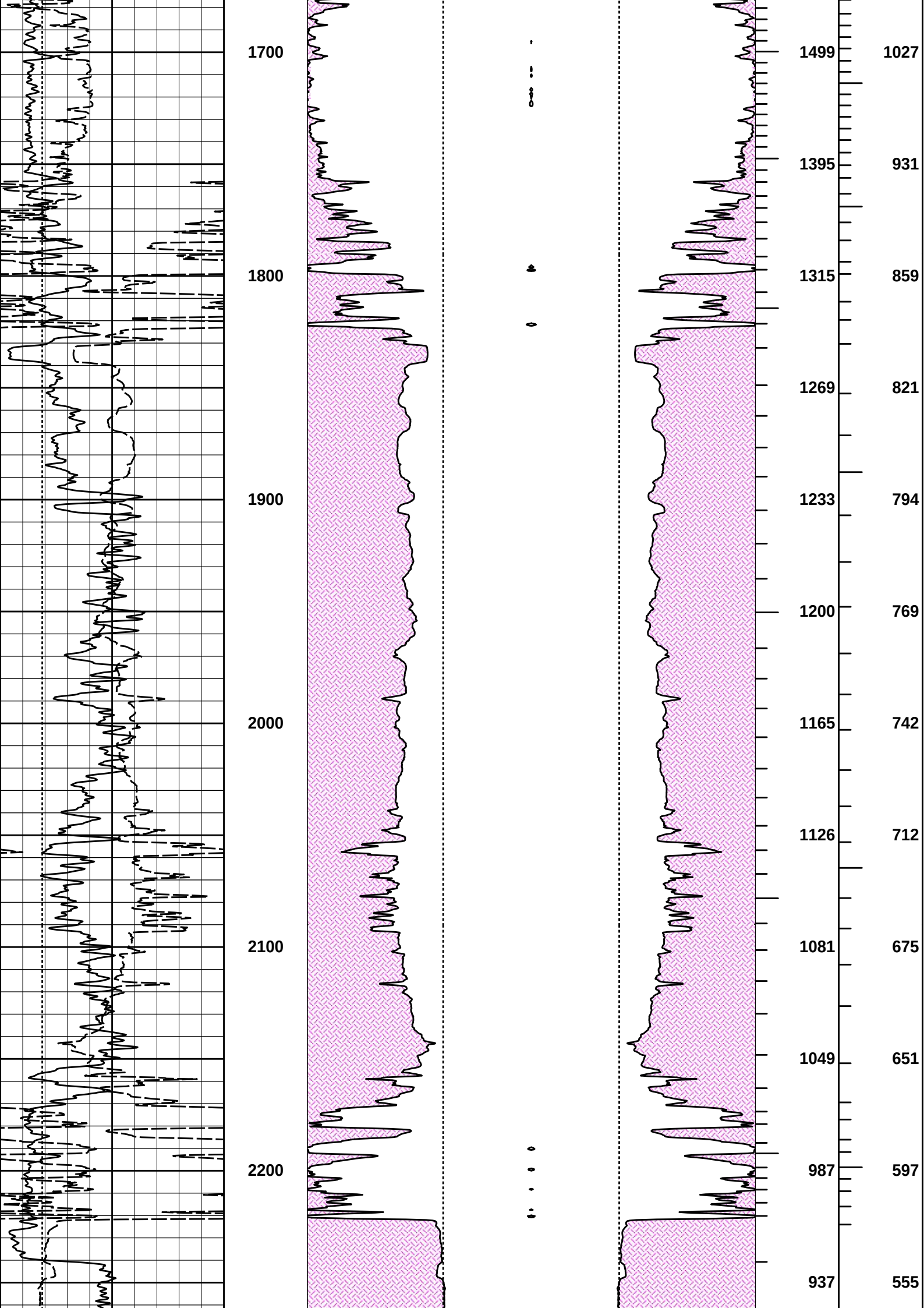
Plot Time: 28-Aug-15 17:15:06
Plot Range: 290 ft to 4563.33 ft
Data: MCDANIEL_1-12\Well Based\R1 CASING
Plot File: \\-LOCAL-\MCDANIEL_1-12\Well Based\AHV\AHV_2_IQ_LIB

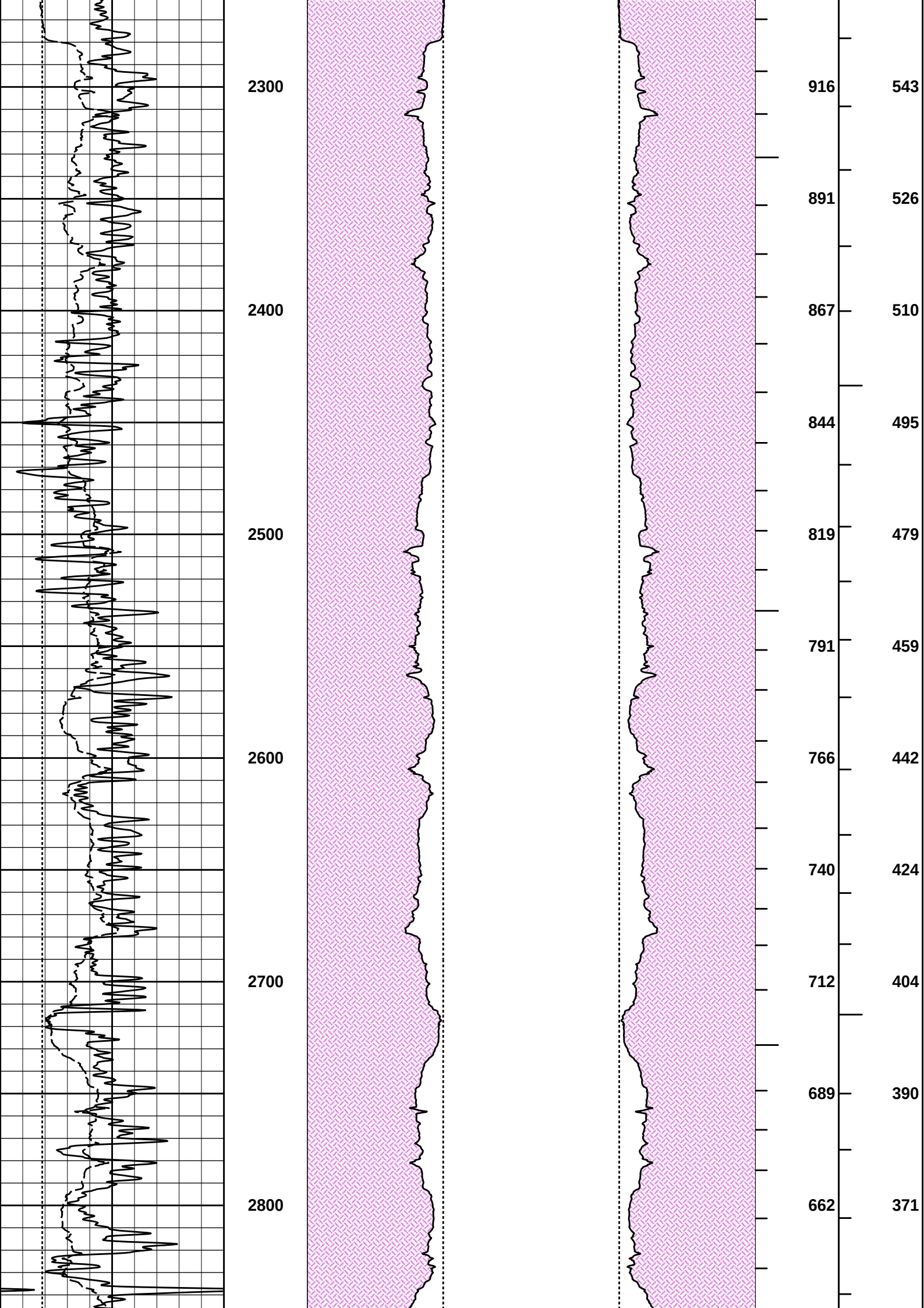
ANNULAR HOLE VOLUME PLOT

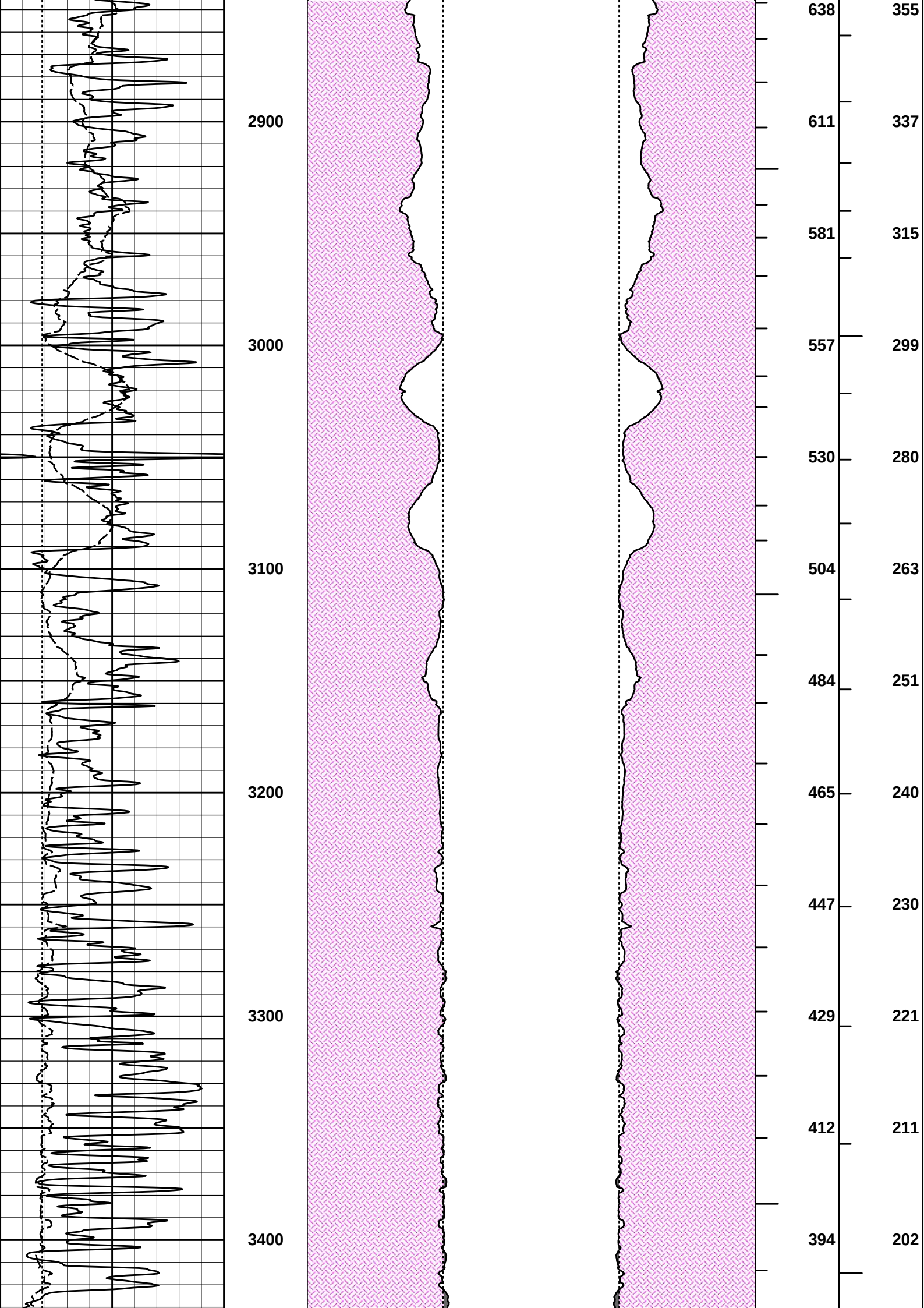


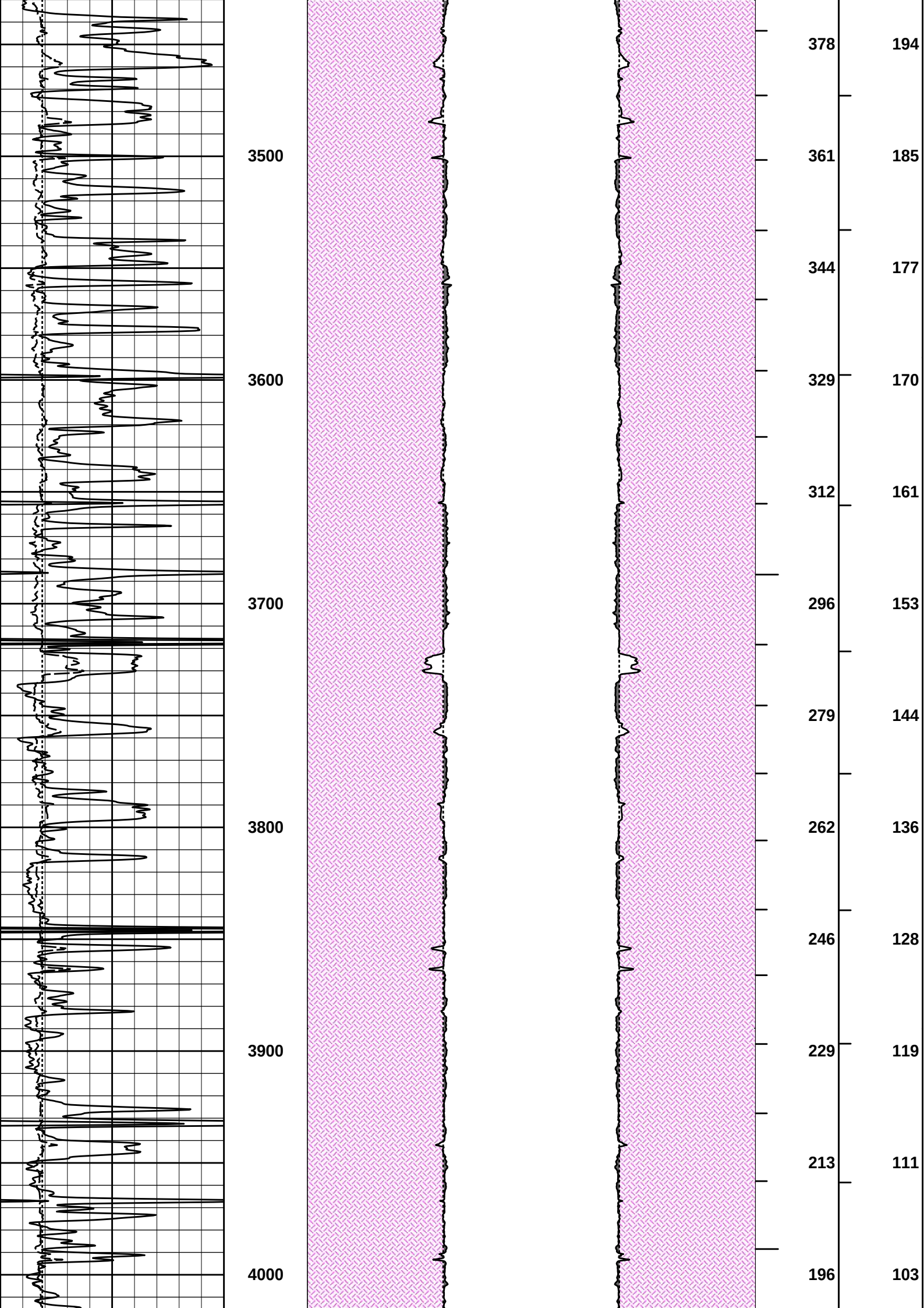

600
700
800
900
1000
2090
2070
2052
2033
2016
1997
1980
1964
1944
1927
1909
1428
1417
1406
1396
1386
1376
1367
1359
1348
1339
1330

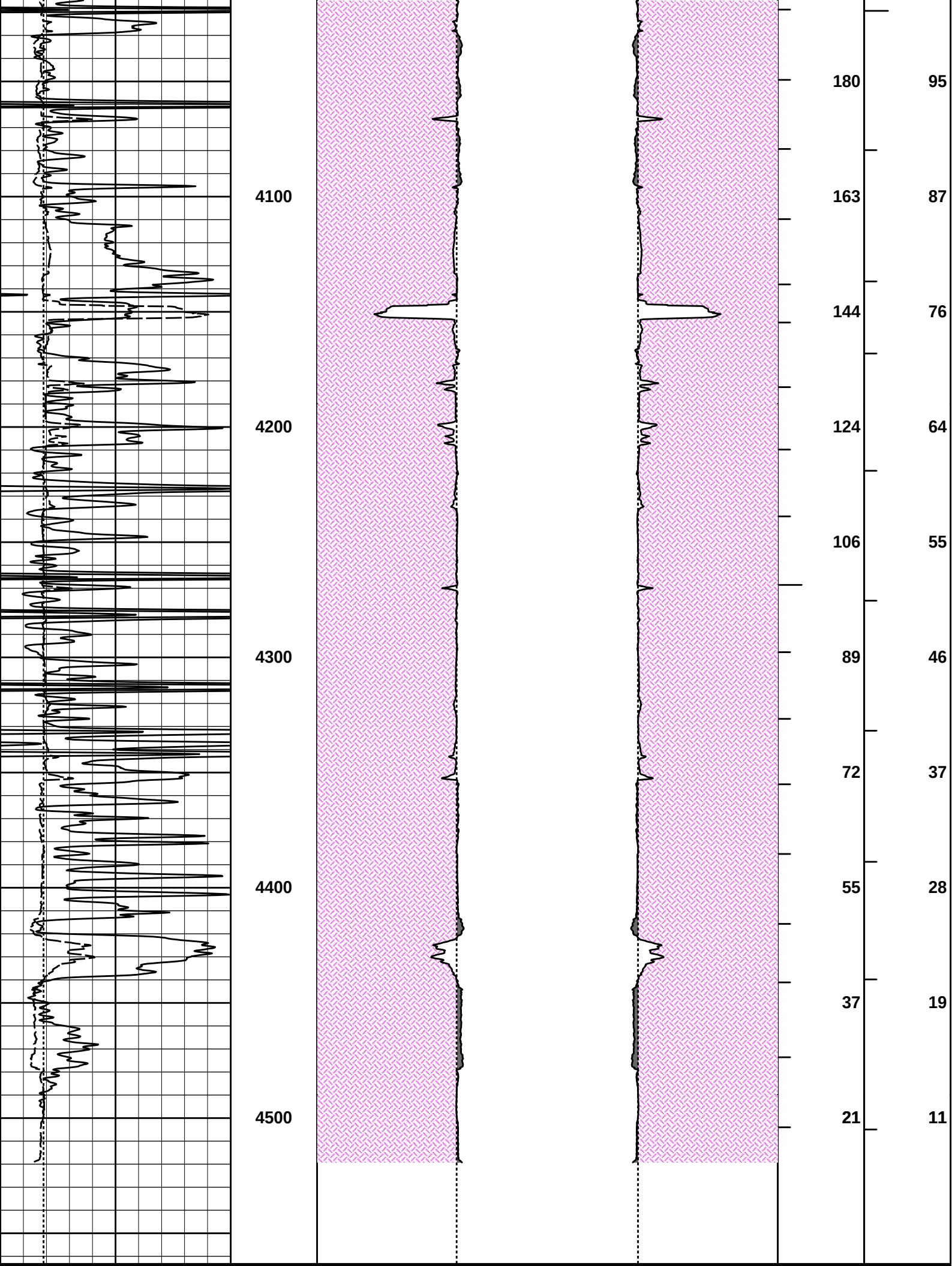

1100
1200
1300
1400
1500
1600
1892
1872
1851
1832
1816
1795
1775
1756
1736
1714
1684
1601
1321
1308
1296
1286
1277
1265
1253
1242
1231
1217
1195
1120


1700
1800
1900
2000
2100
2200
1499
1395
1315
1269
1233
1200
1165
1126
1081
1049
987
937
1027
931
859
821
794
769
742
712
675
651
597
555


2300
2400
2500
2600
2700
2800
916
891
867
844
819
791
766
740
712
689
662
543
526
510
495
479
459
442
424
404
390
371


2900
3000
3100
3200
3300
3400
638
611
581
557
530
504
484
465
447
429
412
394
355
337
315
299
280
263
251
240
230
221
211
202


3500
3600
3700
3800
3900
4000
378
361
344
329
312
296
279
262
246
229
213
196
194
185
177
170
161
153
144
136
128
119
111
103



6 Caliper 16	MD 1 : 600 ft	20 Caliper 0	0 Caliper 20	BHVT	AHVT
inches		inches	inches		
6 Bit Size 16					

0	Bit Size	10
	inches	
0	Gamma API	150
	api	

20	Bit Size	0
	MUDCAKE	

0	Bit Size	20
	MUDCAKE	

HALLIBURTON

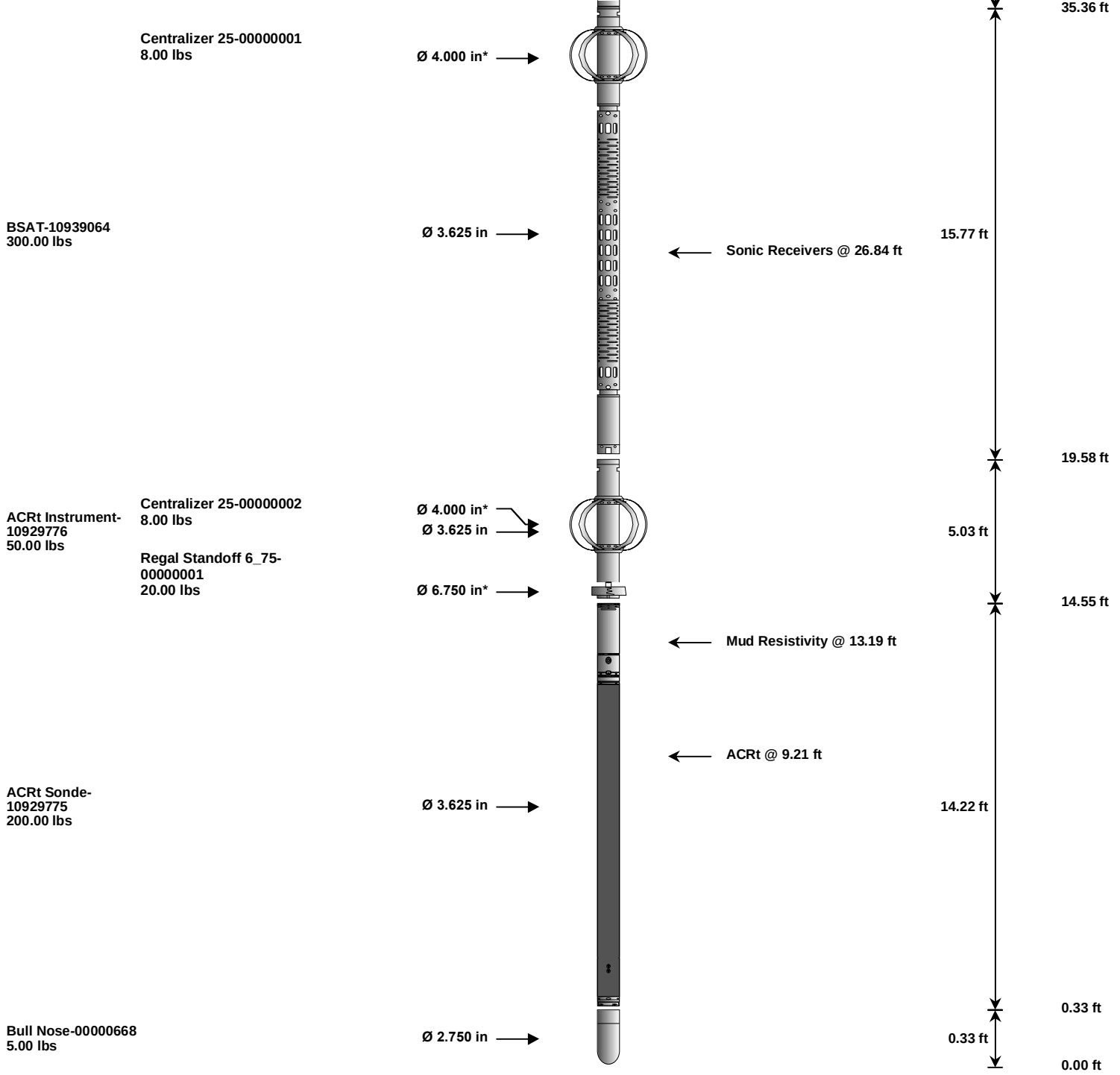
Plot Time: 28-Aug-15 17:15:09
Plot Range: 290 ft to 4563.33 ft
Data: MCDANIEL_1-12\Well Based\R1 CASING\
Plot File: \\-LOCAL-\MCDANIEL_1-12\Well Based\AHV\AHV_2_IQ_LIB

ANNULAR HOLE VOLUME PLOT

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
Cable Head-12345678 30.00 lbs		Ø 3.625 in			1.92 ft	75.71 ft
						73.79 ft
SP Sub-12345678 60.00 lbs		Ø 3.625 in		SP @ 72.01 ft	3.74 ft	
						70.05 ft
GTET-10811258 165.00 lbs		Ø 3.625 in			8.52 ft	
				GammaRay @ 63.99 ft		
						61.53 ft
	DSN Decentralizer-10735145 6.60 lbs	Ø 5.000 in*				
DSNT-10735145 174.00 lbs		Ø 3.625 in			9.69 ft	
				DSN Far @ 54.59 ft DSN Near @ 53.84 ft		
						51.84 ft
SDLT-10673803 360.00 lbs		Ø 4.500 in			10.81 ft	
	SDLT Pad-10673790 65.00 lbs			Microlog @ 44.03 ft		
	Microlog Pad-10673803 8.00 lbs	Ø 4.750 in*		SDL Caliper @ 43.84 ft		
		Ø 4.750 in*		SDL @ 43.83 ft		
						41.03 ft
IQ Flex-00000668 140.00 lbs		Ø 3.625 in			5.67 ft	



Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)		Accumulated Length (ft)	Max.Log. Speed (fpm)
CH	Standard OH Cable Head	12345678	30.00	1.92		73.79	300.00
SP	SP Sub	12345678	60.00	3.74		70.05	300.00
GTET	Gamma Telemetry Tool	10811258	165.00	8.52		61.53	60.00
DSNT	Dual Spaced Neutron	10735145	174.00	9.69		51.84	60.00
DCNT	DSN Decentralizer	10735145	6.60	5.13	*	55.17	300.00
SDLT	Spectral Density Tool	10673803	360.00	10.81		41.03	60.00
SDLP	Density Insite Pad	10673790	65.00	2.55	*	43.24	60.00
MICP	Microlog Pad	10673803	8.00	1.00	*	43.53	60.00
IQF	IQ Flex tool	00000668	140.00	5.67		35.36	300.00
BSAT	Borehole Sonic Array Tool	10939064	300.00	15.77		19.58	60.00
OBCEN	Centralizer - 25 in. Overbody	00000001	8.00	2.08	*	32.60	300.00
ACRt	Array Compensated True Resistivity Instrument Section	10929776	50.00	5.03		14.55	120.00
RSOF	Regal Standoff 6.75in	00000001	20.00	0.52	*	14.71	300.00
OBCEN	Centralizer - 25 in. Overbody	00000002	8.00	2.08	*	16.19	300.00
ACRt	Array Compensated True Resistivity Sonde Section	10929775	200.00	14.22		0.33	120.00
BLNS	Bull Nose	00000668	5.00	0.33		0.00	300.00
Total			**1,599.60**	**75.71**			

* Not included in Total Length and Length Accumulation.

Data: MCDANIEL_1-12\0001 QUAD\IDLE

Date: 28-Aug-15 13:59:26

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	9.200	ppg
	SHARED	WAGT	Weighting Agent	Natural	
	SHARED	BSAL	Borehole salinity	11000.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	0.465	ohmm
	SHARED	TRM	Temperature of Mud	81.0	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	4560.00	ft
	SHARED	BHT	Bottom Hole Temperature	130.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	NONE	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
	SHARED	TEMM	Temperature Master Tool	NONE	
	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	
	Rwa / CrossPlot	BHSM	Borehole Size Source Tool	SDLT	
	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	
	GTET	BHSM	Borehole Size Source Tool	SDLT	
	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	
	DSNT	BHSM	Borehole Size Source Tool	SDLT	
	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
SDLT Pad	BHSM	Borehole Size Source Tool	SDLT	
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	Wylie	
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
ACRt Sonde	BHSM	Borehole Size Source Tool	SDLT	
ACRt Sonde	MBFL	Apply Corkscrew Effect?	No	

BOTTOM

Data: MCDANIEL_1-12\0001 QUAD\005 28-Aug-15 15:11 Up @4563.5f **Date: 28-Aug-15 15:40:46**

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	**GTET - 10811258**	**Reference Calibration Date:**	**29-Jul-15 19:42:51**
Engineer:	**SHELDON INGERSOLL**	**Calibration Date:**	**27-Aug-15 10:08:00**
Software Version:	**WL INSITE R4.6.4 (Build 3)**	**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	46.3	45.8	api
Background + Calibrator	281.1	277.8	api
Calibrator	234.7	232.0	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	**GTET - 10811258**	**Reference Calibration Date:**	**27-Aug-15 10:08:00**
Engineer:	**SHELDON INGERSOLL**	**Calibration Date:**	**27-Aug-15 10:15:04**
Software Version:	**WL INSITE R4.6.4 (Build 3)**	**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	45.8	45.9	api
Background + Calibrator	277.8	280.7	api
Calibrator	232.0	234.9	api

Shop	Field	Difference	Tolerance
232.0	234.9	-2.9	+/- 9.00

DENSITY CALIPER SHOP CALIBRATION

Tool Name: SDLT - 10673803 **Reference Calibration Date:** 29-Jul-15 15:46:17

Engineer: SHELDON INGERSOLL **Calibration Date:** 27-Aug-15 11:01:05

Software Version: WL INSITE R4.6.4 (Build 3) **Calibration Version:** 1

Host Tool Name: DSNT - 10735145

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-2347.51	-1630.65	-7000.00 - -1000.00
Pad Gain	0.0004026	0.0003831	0.000200 - 0.000600
Arm Offset	-3093.27	-3715.35	-5000.00 - 3000.00
Arm Gain	0.0005330	0.0005277	0.000300 - 0.000700
Arm Power	-0.000005649	-0.000005650	-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)	1.81	2.00	0.19	+/- 0.20
Medium Ring (in)	3.65	3.75	0.10	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.54	6.50	-0.04	+/- 0.20
Medium Ring (in)	8.30	8.25	-0.05	+/- 0.20
Large Ring (in)	15.06	15.00	-0.06	+/- 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 - 10673803 **Reference Calibration Date:** 27-Aug-15 11:01:05

Engineer: SHELDON INGERSOLL **Calibration Date:** 27-Aug-15 11:02:53

Software Version: WL INSITE R4.6.4 (Build 3) **Calibration Version:** 1

MEASURED CALIPER VALUES

Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.74	-0.01	+/- 0.10
Ring Diameter	8.25	8.25	-0.00	+/- 0.15

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

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-10811258						
Gamma Ray Calibrator	232.0	234.9	----------	-2.9	+/- 9.00	api
SDLT-10673803						

Pad Extension	3.75	3.74	----------	0.01	+/-0.10	in
Ring Diameter	8.25	8.25	----------	0.00	+/-0.15	in

Data: MCDANIEL_1-12\0001 QUAD\005 28-Aug-15 15:11 Up @4563.5f **Date: 28-Aug-15 15:45:41**

HALLIBURTON

INPUTS, DELAYS AND FILTERS TABLE

Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
	Depth Panel			
TENS	Tension	0.00	NO	
	Rwa / CrossPlot			
TPUL	Tension Pull	75.71	NO	
BS	Bit Size	75.71	NO	
HDIA	Measured Hole Diameter	0.00	NO	
	SP Sub			
PLTC	Plot Control Mask	72.01	NO	
SP	Spontaneous Potential	72.01	BLK	1.250
SPR	Raw Spontaneous Potential	72.01	NO	
SPO	Spontaneous Potential Offset	72.01	NO	
	GTET			
TPUL	Tension Pull	63.99	NO	
GR	Natural Gamma Ray API	63.99	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	63.99	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	63.99	W	1.416 , 0.750
HDIA	Measured Hole Diameter	0.00	NO	
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
	DSNT			
TPUL	Tension Pull	53.74	NO	
RNDS	Near Detector Telemetry Counts	53.84	BLK	1.417
RFDS	Far Detector Telemetry Counts	54.59	TRI	0.583
DNTT	DSN Tool Temperature	53.84	NO	
DSNS	DSN Tool Status	53.74	NO	
ERND	Near Detector Telemetry Counts EVR	53.84	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	54.59	BLK	0.000
ENTM	DSN Tool Temperature EVR	53.84	NO	
HDIA	Measured Hole Diameter	0.00	NO	
	SDLT			
TPUL	Tension Pull	43.84	NO	
PCAL	Pad Caliper	43.84	TRI	0.250
ACAL	Arm Caliper	43.84	TRI	0.250
	BSAT			
TPUL	Tension Pull	26.84	NO	
STAT	Status	26.84	NO	
DLYT	Delay Time	26.84	NO	
SI	Sample Interval	26.84	NO	
TXRX	Raw Telemetry 10 Receivers	26.84	NO	
FRMC	Tool Frame Count	26.84	NO	
GMOD	Gain processing mode	19.58	NO	
	ACRt Sonde			
TPUL	Tension Pull	2.73	NO	

TPUL	Tension Pull	2.73	NO	
F1R1	ACRT 12KHz - 80in R value	8.98	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	8.98	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.48	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.48	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	4.98	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	4.98	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	3.98	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	3.98	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	3.48	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.48	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.23	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	3.23	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	8.98	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	8.98	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.48	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.48	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	4.98	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	4.98	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	3.98	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	3.98	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.48	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.48	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.23	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.23	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	8.98	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	8.98	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.48	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.48	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	4.98	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	4.98	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	3.98	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	3.98	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.48	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.48	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.23	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.23	BLK	0.000
RMUD	Mud Resistivity	12.52	BLK	0.000
F1RT	Transmitter Reference 12 KHz Real Signal	2.73	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.73	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.73	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.73	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	2.73	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.73	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.73	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.73	BLK	0.000
ITMP	Instrument Temperature	2.73	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.73	NO	
TIDV	Instrument Temperature Derivative	2.73	NO	
TUDV	Upper Temperature Derivative	2.73	NO	
TLDV	Lower Temperature Derivative	2.73	NO	
TRBD	Receiver Board Temperature	2.73	NO	
HDIA	Measured Hole Diameter	0.00	NO	

SDLT Pad

TPUL	Tension Pull	43.83	NO	
NAB	Near Above	43.66	BLK	0.920
NHI	Near Cesium High	43.66	BLK	0.920
NLO	Near Cesium Low	43.66	BLK	0.920

NVA	Near Valley	43.66	BLK	0.920
NBA	Near Barite	43.66	BLK	0.920
NDE	Near Density	43.66	BLK	0.920
NPK	Near Peak	43.66	BLK	0.920
NLI	Near Lithology	43.66	BLK	0.920
NBAU	Near Barite Unfiltered	43.66	BLK	0.250
NLIU	Near Lithology Unfiltered	43.66	BLK	0.250
FAB	Far Above	44.01	BLK	0.250
FHI	Far Cesium High	44.01	BLK	0.250
FLO	Far Cesium Low	44.01	BLK	0.250
FVA	Far Valley	44.01	BLK	0.250
FBA	Far Barite	44.01	BLK	0.250
FDE	Far Density	44.01	BLK	0.250
FPK	Far Peak	44.01	BLK	0.250
FLI	Far Lithology	44.01	BLK	0.250
PTMP	Pad Temperature	43.84	BLK	0.920
NHV	Near Detector High Voltage	43.24	NO	
FHV	Far Detector High Voltage	43.24	NO	
ITMP	Instrument Temperature	43.24	NO	
DDHV	Detector High Voltage	43.24	NO	
HDIA	Measured Hole Diameter	0.00	NO	

Microlog Pad

TPUL	Tension Pull	44.03	NO	
MINV	Microlog Lateral	44.03	BLK	0.750
MNOR	Microlog Normal	44.03	BLK	0.750

Data: MCDANIEL_1-12\0001 QUAD\005 28-Aug-15 15:11 Up @4563.5f **Date: 28-Aug-15 15:40:13**

COMPANY	**CONCORDE RESOURCES CORP.**		
WELL	**MCDANIEL 1-12**		
FIELD	**WILDCAT**		
COUNTY	**LOGAN**	STATE	**KANSAS**

HALLIBURTON

ANNULAR HOLE VOLUME PLOT