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2018 Bryan Mound Baseline Casing Analysis

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Abstract

This report analyzes data from multi-arm caliper (MAC) surveys taken at the Bryan Mound Strategic Petroleum Reserve site to determine baseline statistics for the original innermost cemented casing or the subsequent installed liner. Along with analyzing the internal diameters from the MAC surveys, this analysis looks to approximate casing weight, an important metric for determining the strength of well sections. Casing weight is calculated for each section, survey, and well. Results from the analysis show most wells reflect the dimensions in the original as-built drawings. There are, however, a few exceptions. Some well sections have calculated wall thicknesses outside API tolerance. In addition, some well section depths differ from the as-built drawings. All results are discussed on a well-by-well basis. Where applicable, information from this report should be used to update as-built drawings and aid in creating more accurate well models for future studies.

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Nomenclature

ASTM American Society for Testing and Materials

BHF Bradenhead Flange

BM Bryan Mound

MAC Multi-Arm Caliper

MID_{min} Minimum Measured Internal Diameter

EID Expected Internal Diameter

EOD Expected Outer Diameter

MID_{min} Minimum Measured Internal Diameter

RWD Relative Wall Displacement

SPR Strategic Petroleum Reserve

Chapter 1

Introduction

The Strategic Petroleum Reserve (SPR) stores large amounts of oil in subsurface salt caverns to supply the United States in times of national shortage. To achieve these goals SPR must assure the integrity of cavern wells. One method for monitoring well integrity is through the use of multi-arm caliper (MAC) surveys. MAC surveys measure the internal dimensions of the well which can then be used to infer the structural integrity. Each well is designed to withstand the stresses and strains they will experience at a given depth. Generally, these stresses and strains will increase with depth, therefore thicker and stronger well sections will be used at greater depths [4]. Since the outer diameter of the well casing remains constant, the inner diameter is varied to account for thicker well walls.

A previous report by B. Roberts [5] suggested some of the installed well casings at the SPR sites may be different from the as-built drawings. Subsequent reports by Moriarty and Roberts [3, 2] analyzed the well dimensions at the Big Hill and West Hackberry SPR sites. These reports showed several wells had installed casings that did not match the original as-built specifications. Well casings not designed to specification can, under certain circumstances, affect well operations. The worst, but least likely, scenario is a casing section warping and/or collapsing because it was weaker than the design required. There is also a small possibility that an instrument will become stuck in a section with a smaller or warped inner diameter. In addition to the physical effects, accurate well volumes are needed for modelling and analysis of wells.

This report investigates the casings of all wells at the Bryan Mound (BM) SPR site to determine if the installed casings match the as-built specifications. MAC data will be used to find the internal, or inner, diameter. The inner diameter of the well will be used to estimate the wall thickness and, subsequently, the type of each casing. The casing types are differentiated by their outside diameter, material, and weight per linear foot. While there is no way to accurately determine the casing's material, the outside diameter and casing weight can be determined from as-built drawings and MAC surveys.

Chapter 2

Methodology

The methods used in this report are taken largely from the aforementioned Well Casing Baseline Analysis for the Big Hill Strategic Petroleum Reserve Site SAND report by Moriarty and Roberts [3].

Since 2007, the SPR has been measuring the internal dimensions of wells at Bryan Mound using multi-arm caliper surveys. This type of survey uses a tool that is lowered into a well and samples at a vertical resolution between 0.025 and 0.1 feet. Each MAC has up to 60 arms that measures the distance between the well wall and a central point inside the tool to get an arm length. Individual internal diameters can be obtained by adding the lengths given by two arms on opposite sides of the sampling tool. All depths of internal diameters are reported with respect to the bradenhead flange (BHF).

The internal diameter measurements can be noisy, especially around the casing collar and therefore difficult to analyze. To mitigate this, a median filter with a window size of 2 ft. is applied to each internal diameter measurement to reduce noise while preserving the shape of the original data. An example of filtering is provided in Figure 2.1. The unfiltered data shows large jumps near the casing collar. This is in contrast to the filtered data which still reflects the original data but without jumps.

Although most variation in internal diameter was seen near the casing collar, it was not a reliable predictor of casing collar location. In this study, relative wall displacement (RWD) was used to identify casing collar depths. This parameter was adapted from a 2015 Roberts report [1] and is the maximum absolute difference between the measured and expected internal radii normalized by the expected casing wall thickness (Equation 2.1). The RWD is presented as follows:

$$\text{RWD} = \frac{0.5 \times \max(|\text{MID}_{\min} - \text{EID}|, |\text{MID}_{\max} - \text{EID}|)}{\text{EOD} - \text{EID}} \quad (2.1)$$

where $\text{MID}_{\min}$ and $\text{MID}_{\max}$ are the minimum and maximum measured internal diameters, respectively, EID is the expected internal diameter, and EOD is the expected outer diameter. The RWD is sensitive to the jumps seen near the collar regardless of casing weight and is therefore useful in identifying the depths of casing sections. Figure 2.2, below, is an example of how RWD values were used to determine casing section depths.

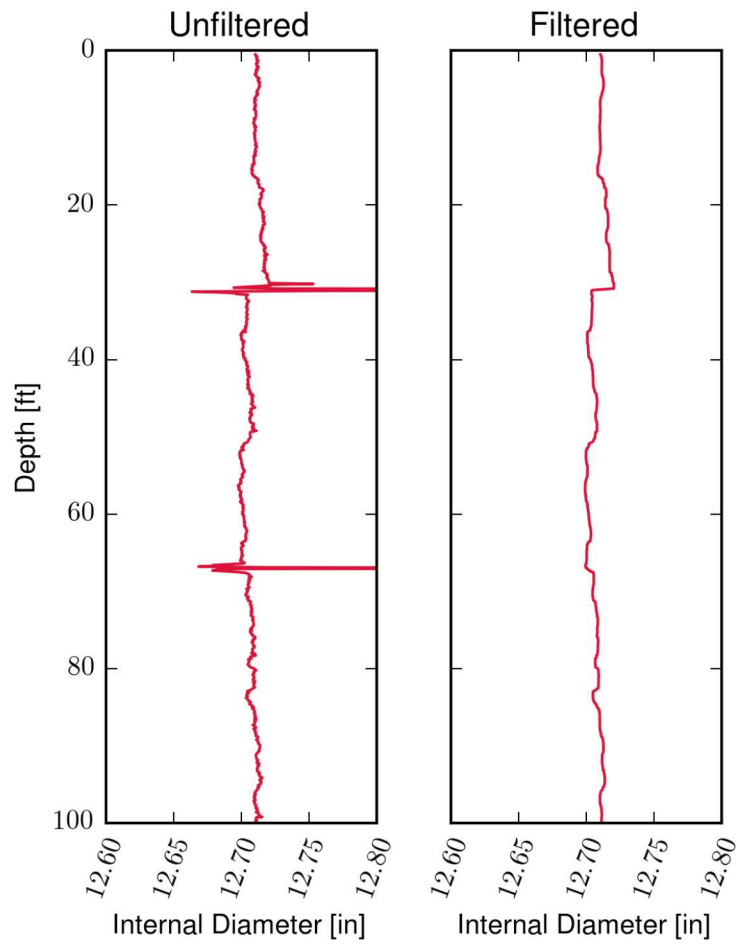


Figure 2.1: Difference between the unfiltered raw internal diameter measurements (left) and the filtered measurements (right)

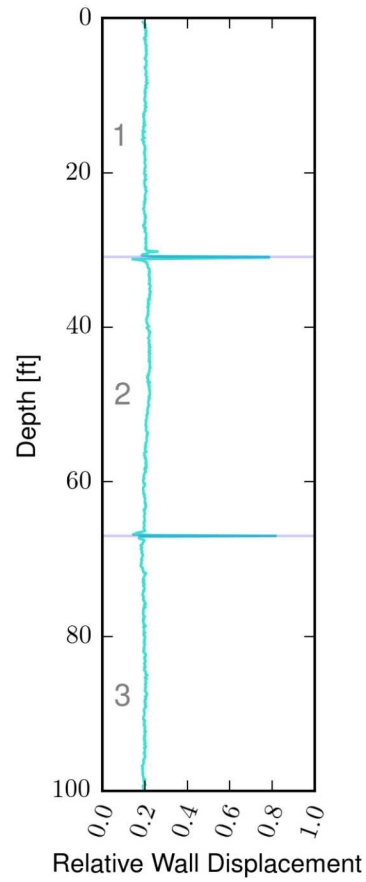


Figure 2.2: Example of relative wall displacement with calculated collar locations marked by the horizontal blue lines and casing sections numbered on the left section of the graph.

2.1 Determination of Well Casing Weight

Once the internal diameters are filtered and the casing collar depths are located, the next step is to determine the casing weight of each well section. Casing weight is a function of the well's external diameter and wall thickness. External diameter information is taken from the as-built drawings while wall thickness is calculated from the difference in measured internal diameter and the assumed external diameter.

Each casing weight is given an allowable tolerance as described by ATSM A999. ATSM A999 states that the actual wall thickness may not be less than 85% of the nominal wall thickness [1]. This threshold was used to determine the actual casing weights of each section. In addition, it is possible that measured wall thickness is greater than the specified wall thickness. For the purposes of this report the maximum allowable wall thickness is 115% of the nominal wall thickness.

Since each survey had multiple arms only the median internal diameter at each depth was used to determine the casing weight. If the majority of median internal diameter measurements in a section are within the specified tolerance then that section is considered to be the casing weight given in the as-built drawings. Otherwise, that section is out of tolerance and not the casing specified in the as-built drawings. If this is the case, then the well section is considered to be the casing weight with the closest corresponding wall thickness.

Chapter 3

Results

The results are presented several ways. First, Table 3 presents general findings. Each row in the table shows results for a well. For each well, the number of surveys conducted along with the percentage of sections outside tolerance are shown. If there were multiple surveys the percentage is shown as a range between the minimum and maximum values. Some wells also had liners installed, however, no as-built drawings with the liners were available at the time of writing. As such, the outer diameter and casing weight were assumed for these sections. Values in parentheses represent the percentage of liners outside of tolerance. In addition, some wells exhibited acute variations in internal diameter near the salt/caprock interface. Finally, Table 3 shows if the as-built drawings are thought to be incorrect. Reasoning for these decisions are further discussed later in the this section.

Table 3.1: Summary of Results

Well	# of Surveys	% Outside Tolerance	Liner w/o As-Built	Variation Near Salt/Caprock Interface	Incorrect As-Built
BM-001A	3	4%–17% (0%)	✓	✓	
BM-002	2	0%			
BM-002A	1	0%			
BM-004A	1	94%			✓
BM-004B	2	2% (0%)	✓		
BM-004C	1	0%			
BM-005	1	100%			✓
BM-005A	2	0%–67%			
BM-005C	2	2%			
BM-101A	2	8%–42%			✓
BM-101C	2	2% (0%)	✓		
BM-102B	1	2%			
BM-102C	1	0%		✓	
BM-103B	1	12%–18% (0%)	✓		✓
BM-103C	3	0%–10% (0%)	✓		
BM-104A	2	2%–65%			
BM-104B	0	-	-	-	-
BM-104C	2	0%–71%			
BM-105B	2	2%–6%			
BM-105C	0	-	-	-	-
BM-106A	1	0%			
BM-106B	2	2% (0%)	✓		

Continued on next page

Table 3.1 – *Continued from previous page*

Well	# of Surveys	% Outside Tolerance	Liner w/o As-Built	Variation Near Salt/Caprock Interface	Incorrect As-Built
BM-106C	3	0%–8%			
BM-107A	3	0%–16%			
BM-107B	1	0%			
BM-107C	2	4%–6%			
BM-108A	1	0%			
BM-108B	1	0%			
BM-108C	1	13%			✓
BM-109A	2	0%			
BM-109B	2	29%–98%			
BM-109C	1	0%			
BM-110A	2	10%–51%		✓	
BM-110B	2	0%			✓*
BM-110C	2	0%–2%			
BM-111A	1	0%			
BM-111B	1	2%			
BM-112A	2	2%–4%			✓
BM-112C	3	4%–8% (0%)	✓		
BM-113A	1	15%			✓
BM-113B	2	0%		✓	
BM-114A	1	0%			✓*
BM-114B	1	0%			
BM-115A	1	0%		✓	
BM-115B	1	2%			
BM-116A	1	39%			
BM-116B	1	0%			

* as-built drawings indicate innermost cemented casing is both 13 3/8 in. and 16 in. The casing was considered to have a 13 3/8 in. outer diameter for calculation purposes.

Secondly, results from each survey are presented and discussed. The as-built information for each well is presented along with graphical representations of internal diameter survey results. Each of the figures show the nominal value, the median measured internal diameter, and the minimum and maximum internal diameters. The depth of each section is shown with a horizontal blue line and numbered to the right of the figure. Any sections calculated to be outside the design specifications have their section numbers in bold. For calculated weights, please refer to the tables in Appendix A.

3.1 Bryan Mound 001A

There are three surveys available for Bryan Mound 001A. The first, shown in Figure 3.1 was taken on June 12, 2012. The second shown in Figure 3.2 was taken on November 17, 2014. Those two surveys measure the innermost cemented casing. Both surveys show a slightly larger inner diameter than listed in the as-built drawings. Both surveys also show that most of the well sections are still within the API casing tolerance for a 13 3/8" casing. The only sections outside tolerance in both surveys are labeled 30 and 50. Both of those sections are closer to 48 #/ft. In addition, both surveys show similar internal diameter patterns, however, the second survey has slightly smaller internal diameter measurements. It is unlikely the well has become uniformly smaller over time and this is likely due to tool calibration.

The last survey available was conducted on January 12, 2015 and measured an installed liner. Although no completion or as-built drawings were available at the time of writing, it was assumed the liner is a 51 #/ft., 10 3/4" casing. Given the assumption, none of the liner sections have internal diameters outside of tolerance.

Table 3.2: BM-001A Innermost Cemented Casing As-Built Information

Grade	Outside Diameter		Connection Type		
K-55	13 3/8"		ST&C		

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
54.5	0	2166	0.38	12.615	1130

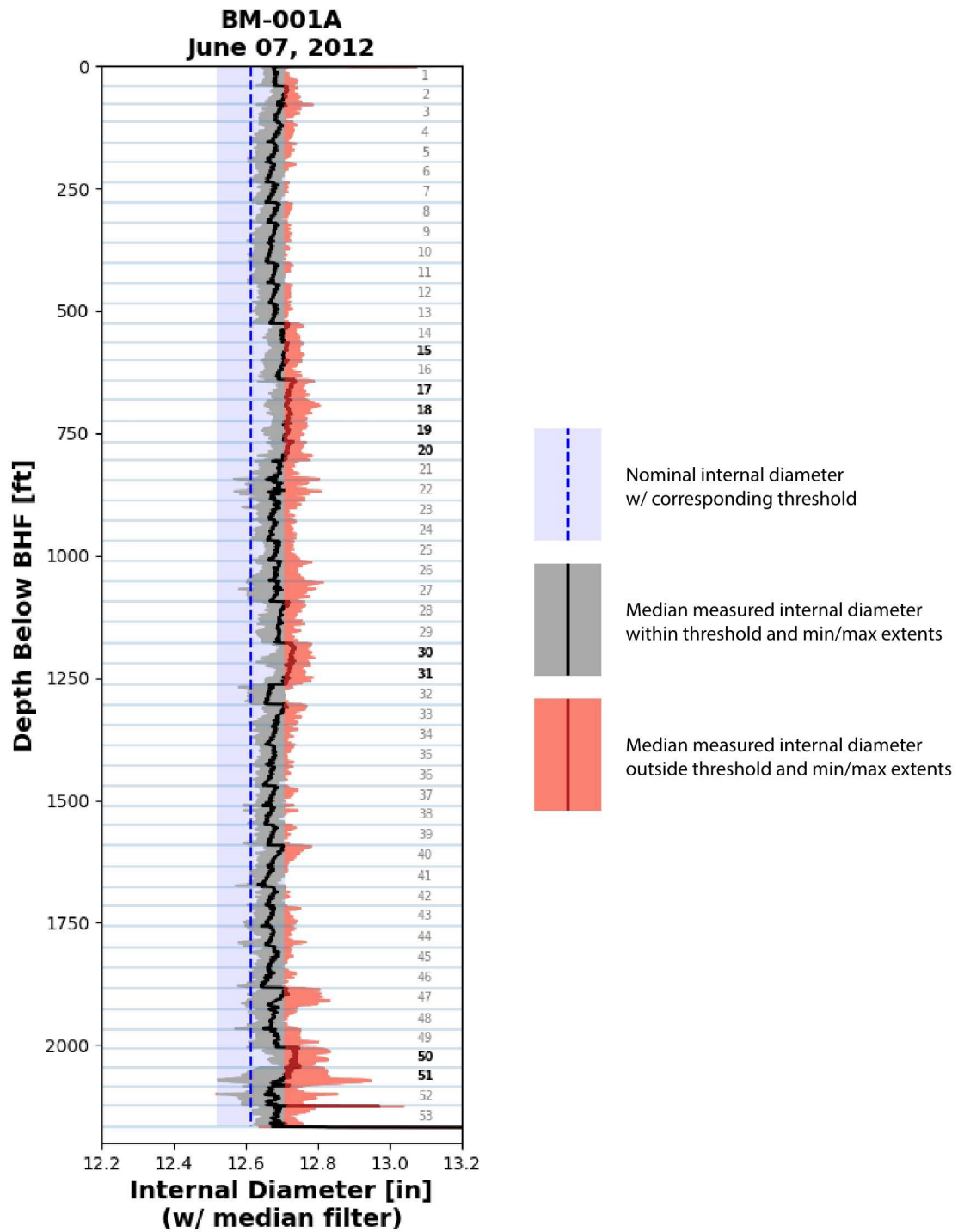


Figure 3.1: Measured internal diameter of BM-001A taken on June 07, 2012. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

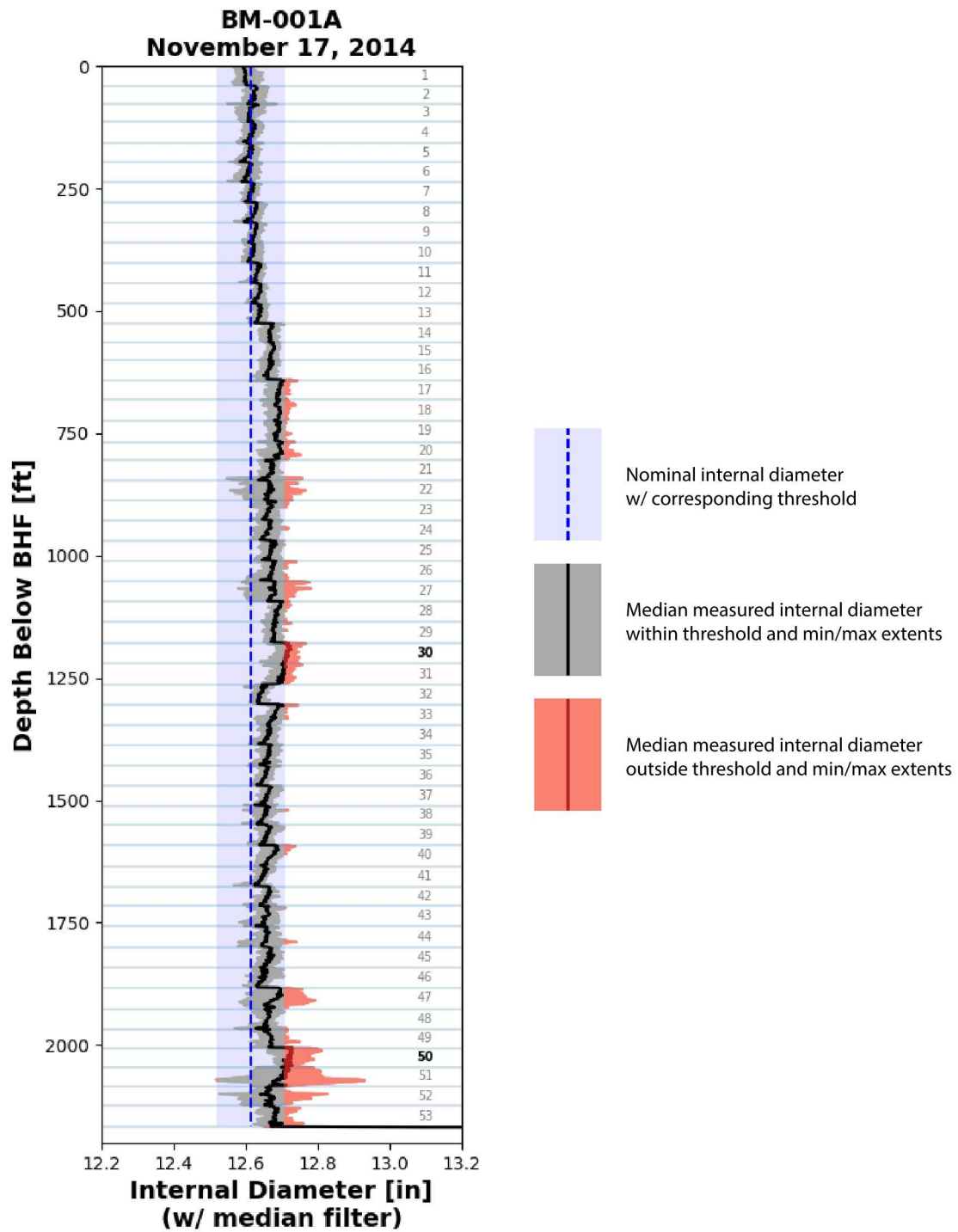


Figure 3.2: Measured internal diameter of BM-001A taken on November 17, 2014. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

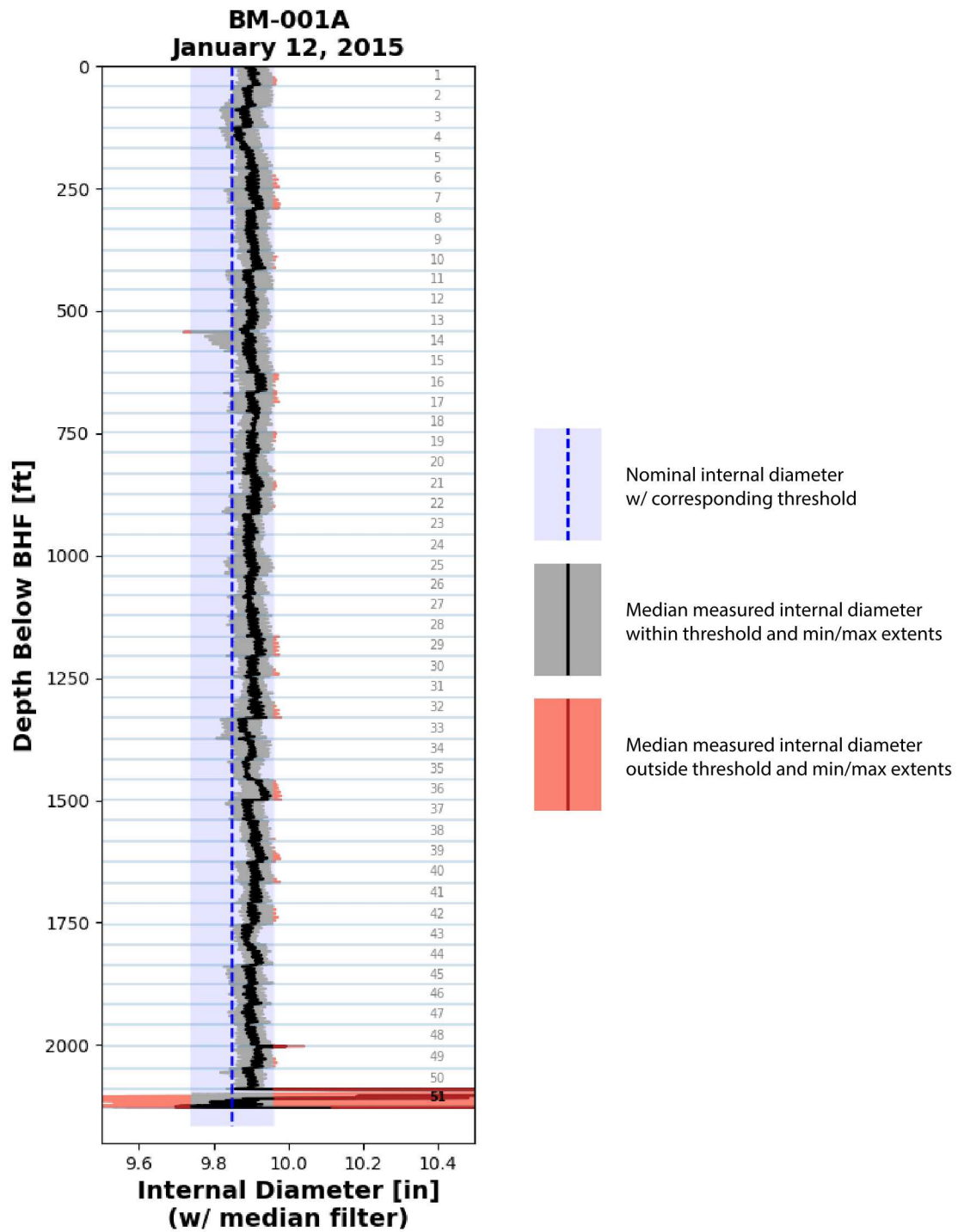


Figure 3.3: Measured internal diameter of BM-001A taken on January 12, 2015. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.2 Bryan Mound 002

Well 002 is the only well at Bryan Mound that looks to have 30ft sections (as opposed to 40ft). Both surveys indicate the wells sections are within tolerance.

Table 3.3: BM-002 Liner As-Built Information

Grade	Outside Diameter		Connection Type		
K-55	8 5/8"		ST&C		

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
32	0	1409	0.352	7.921	2530

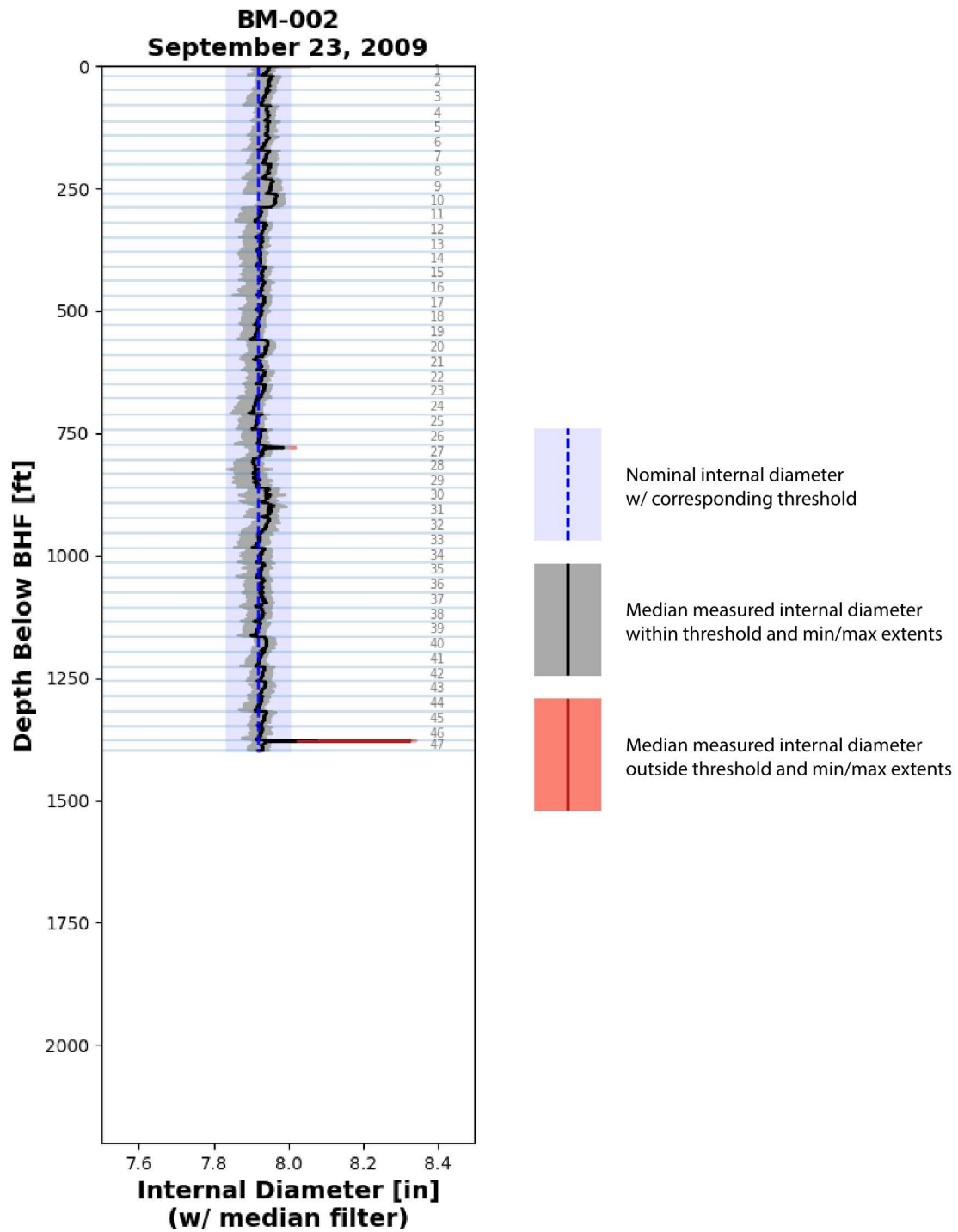


Figure 3.4: Measured internal diameter of BM-002 taken on September 23, 2009. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

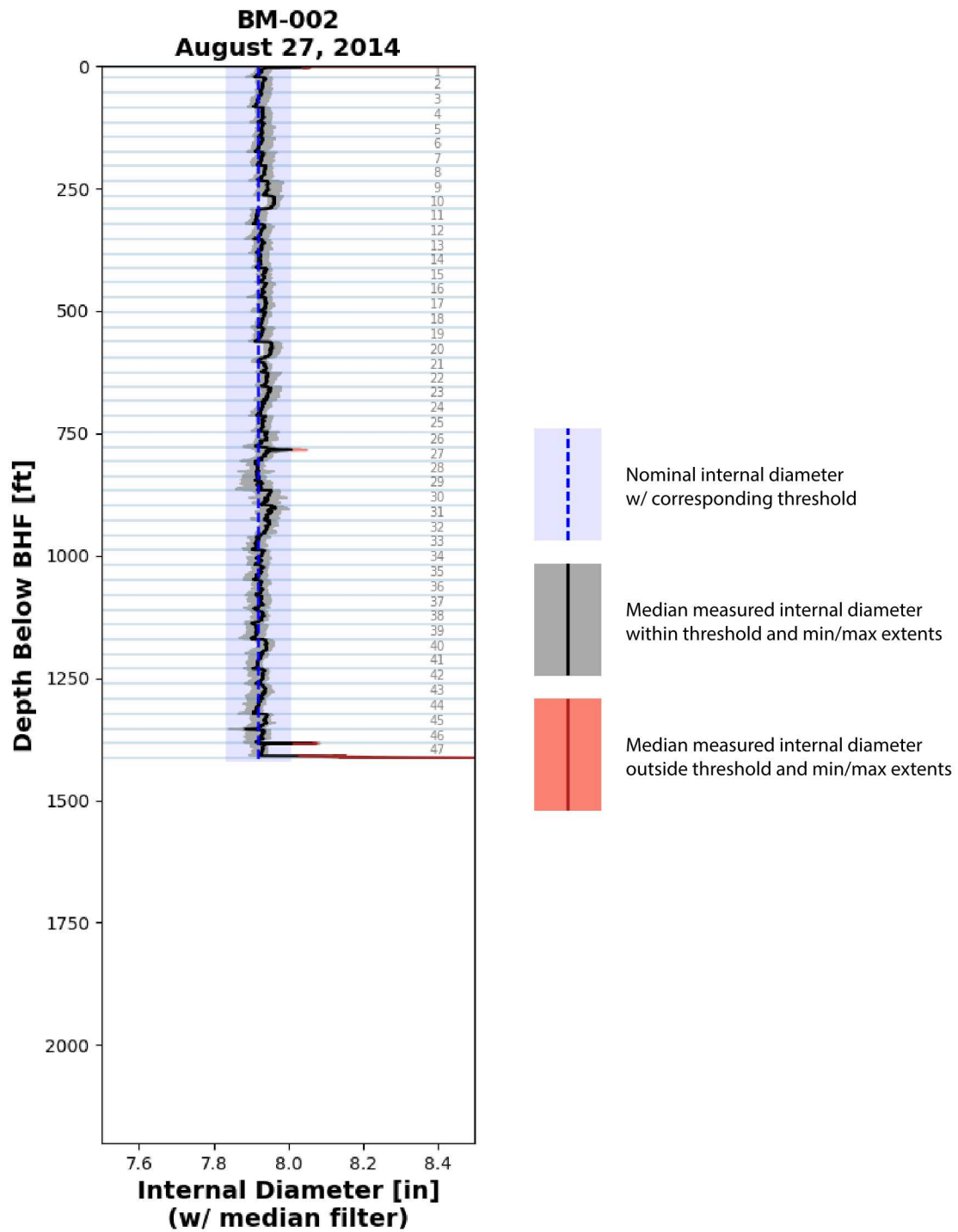


Figure 3.5: Measured internal diameter of BM-002 taken on August 27, 2014. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.3 Bryan Mound 002A

While most well sections in BM-002A have measured inner diameters slightly larger than their nominal value all well sections are within the as-built casing tolerance.

Table 3.4: BM-002A Innermost Cemented Casing As-Built Information

Grade	Outside Diameter		Connection Type		
K-55	13 3/8"		ST&C		

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
61	0	1376	0.43	12.515	1540

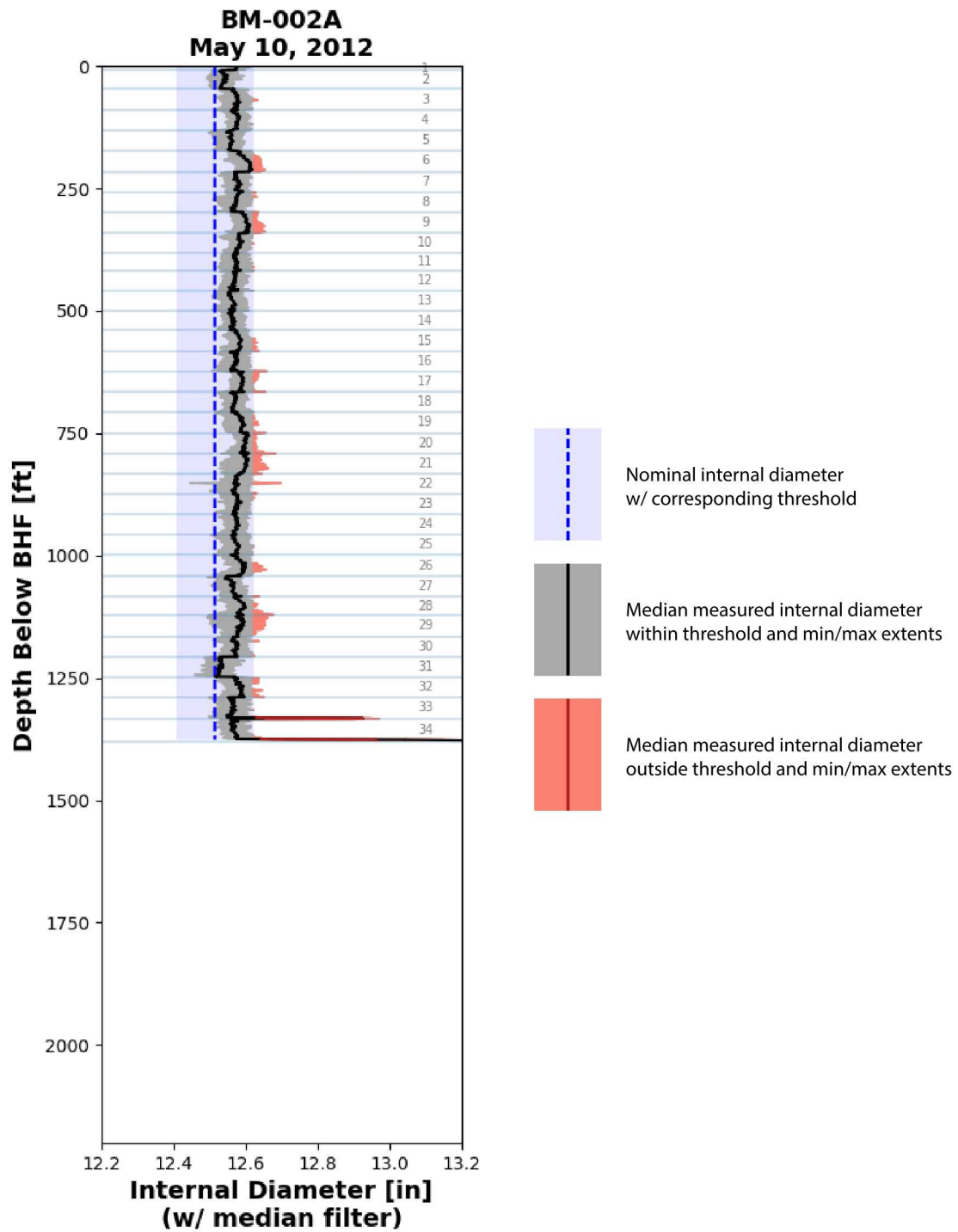


Figure 3.6: Measured internal diameter of BM-002A taken on May 10, 2012. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.4 Bryan Mound 004A

There has been only one survey conducted at Bryan Mound 004A. The survey indicates that most sections are out of tolerance. All but three sections have inner diameters larger than expected. Most of the sections are calculated to be closer to 54.5 #/ft. sections with some being calculated at 48 #/ft. sections. It is possible this is due to survey tool error but without another survey it is difficult to confirm.

Table 3.5: BM-004A Innermost Cemented Casing As-Built Information

Grade		Outside Diameter		Connection Type	
K-55		13 3/8"		ST&C	

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
61	0	1985	0.43	12.515	1540

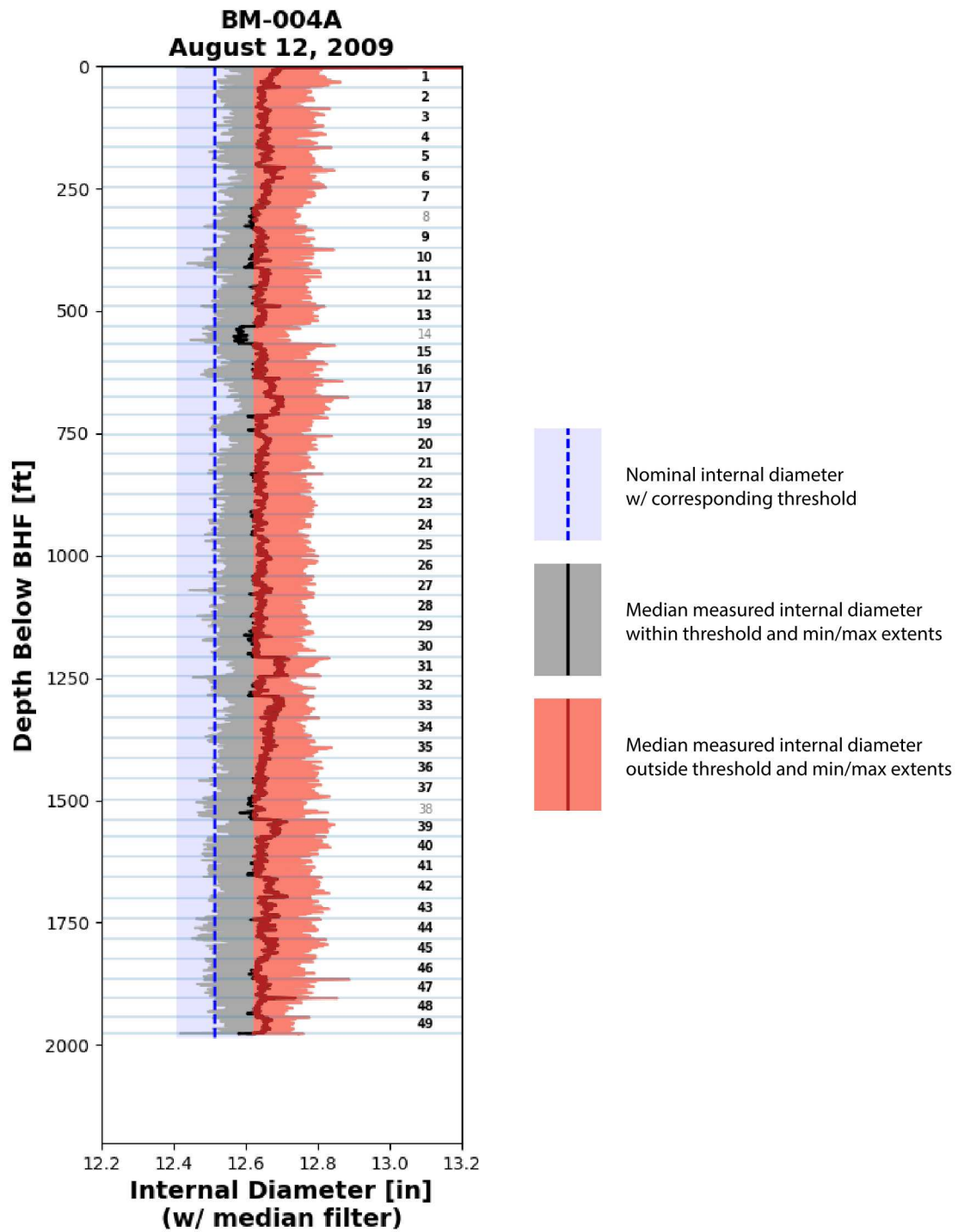


Figure 3.7: Measured internal diameter of BM-004A taken on August 12, 2009. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.5 Bryan Mound 004B

There are two surveys of Bryan Mound 004B. One was taken before the installation of a liner and another taken after. Most of the sections in the innermost installed casing are within tolerance of the nominal casing weight. Although completion reports were not available at the time of writing, the measured liner is consistent with a 10 3/4" 51 #/ft. well casing.

Table 3.6: BM-004B Innermost Cemented Casing As-Built Information

Grade	Outside Diameter		Connection Type		
K-55	13 3/8"		ST&C		

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
61	0	2062	0.43	12.515	1540

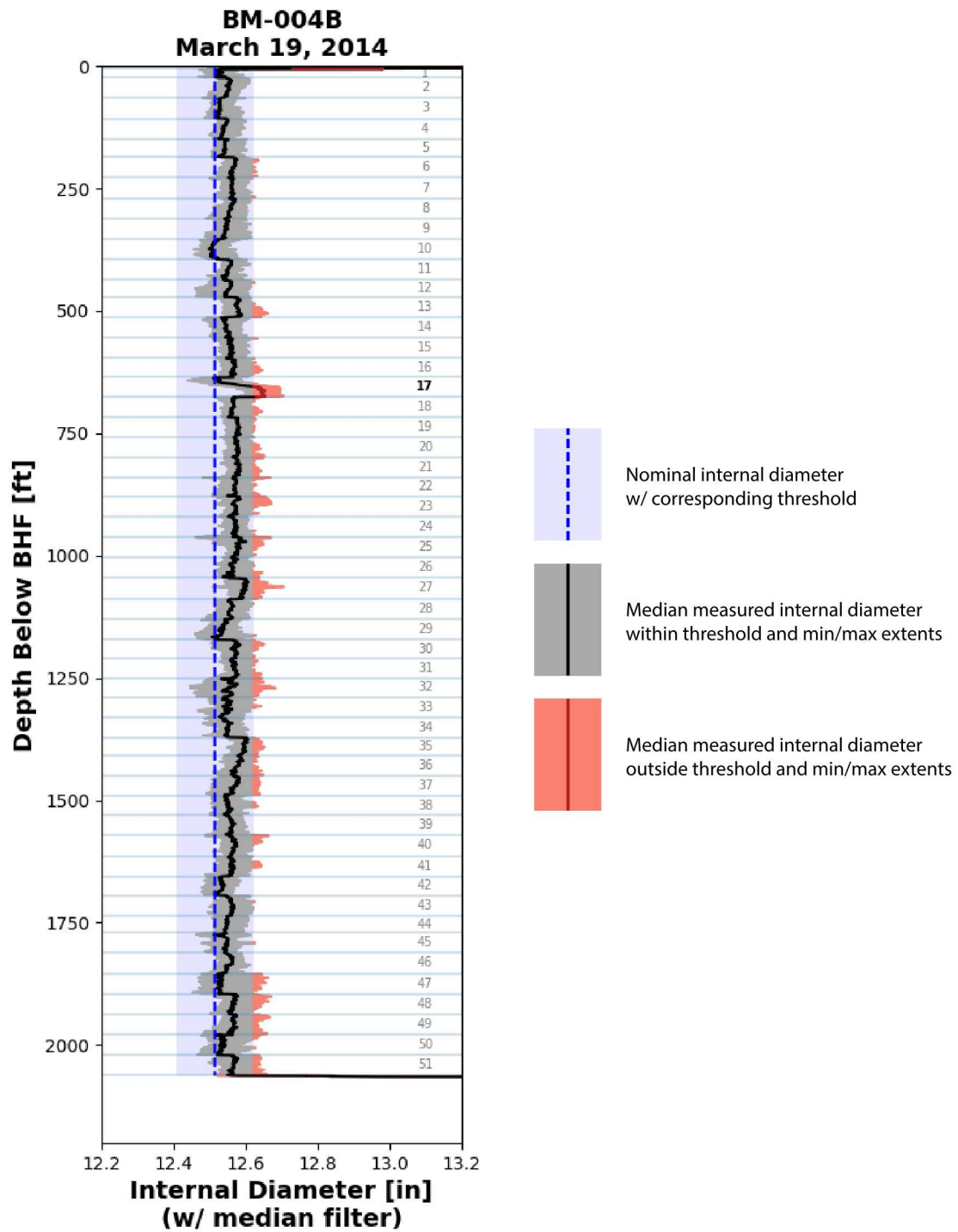


Figure 3.8: Measured internal diameter of BM-004B taken on March 19, 2014. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

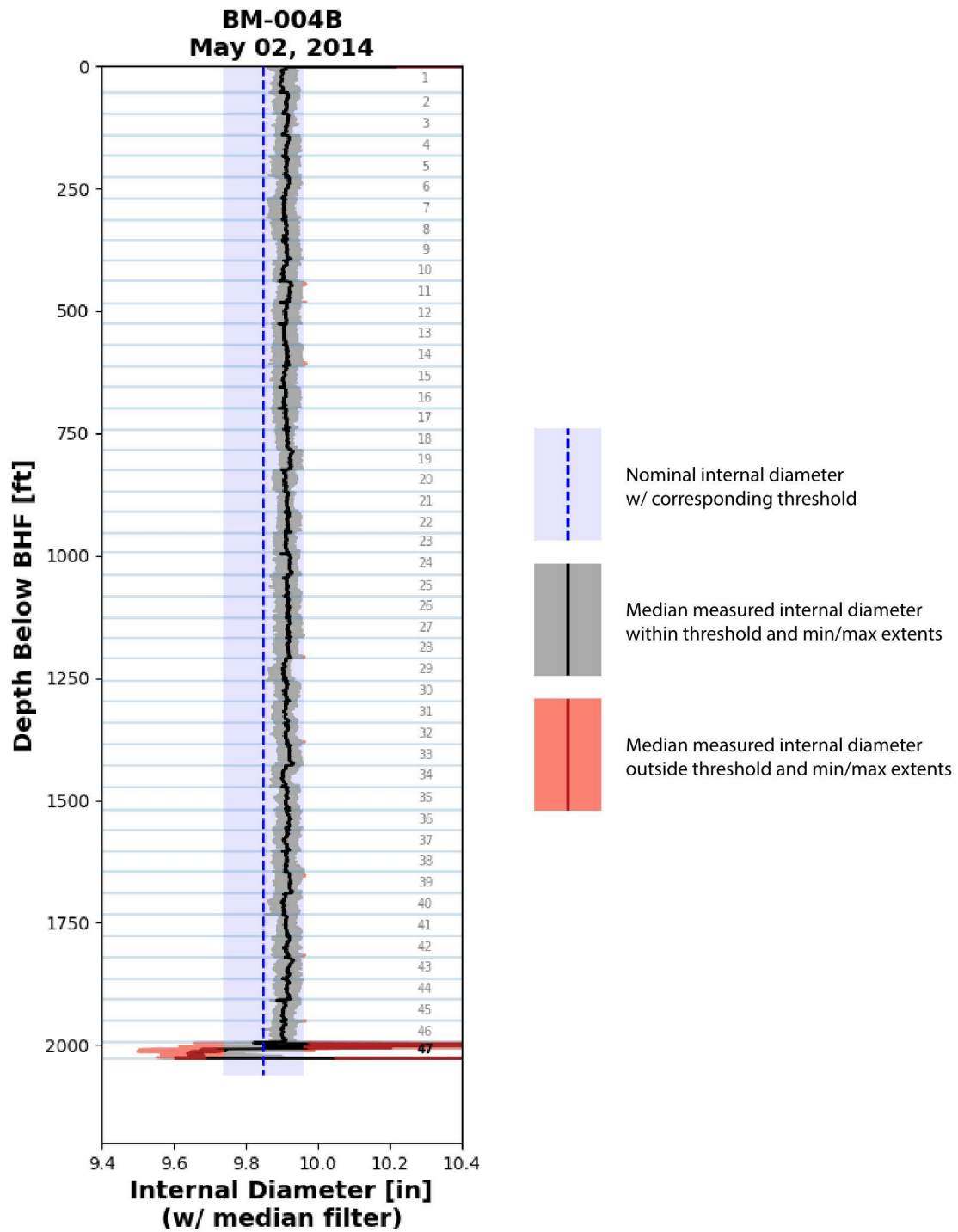


Figure 3.9: Measured internal diameter of BM-004B taken on May 02, 2014. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.6 Bryan Mound 004C

There has only been one survey of Bryan Mound 004C. The survey indicates the internal well casing diameter is within tolerance of the nominal value.

Table 3.7: BM-004C Innermost Cemented Casing As-Built Information

Grade	Outside Diameter		Connection Type		
K-55	13 3/8"		ST&C		

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
54.5	0	1980	0.38	12.615	1130

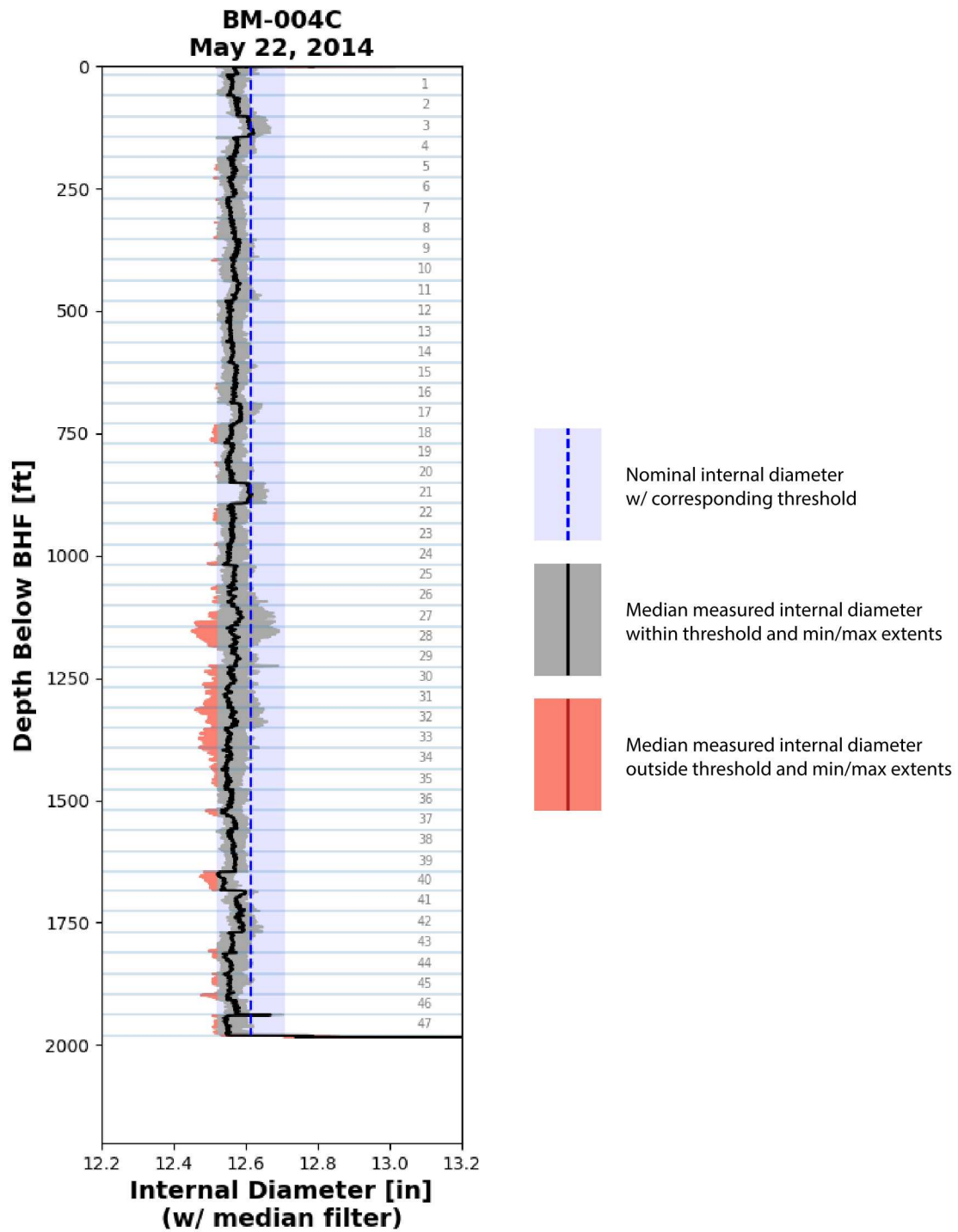


Figure 3.10: Measured internal diameter of BM-004C taken on May 22, 2014. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.7 Bryan Mound 005

There has only been a single survey of Bryan Mound 005 taken in late 2015. The as-built drawings suggests the well casing weight should be 68 #/ft, however, the survey indicates the well is closest in size to a 54.5 #/ft. casing. Due to the significant difference it seems there is an issue with the as-built drawings.

Table 3.8: BM-005 Innermost Casing As-Built Information

Grade	Outside Diameter		Connection Type		
K-55	13 3/8"		ST&C		

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
68	0	1944	0.48	12.415	1950

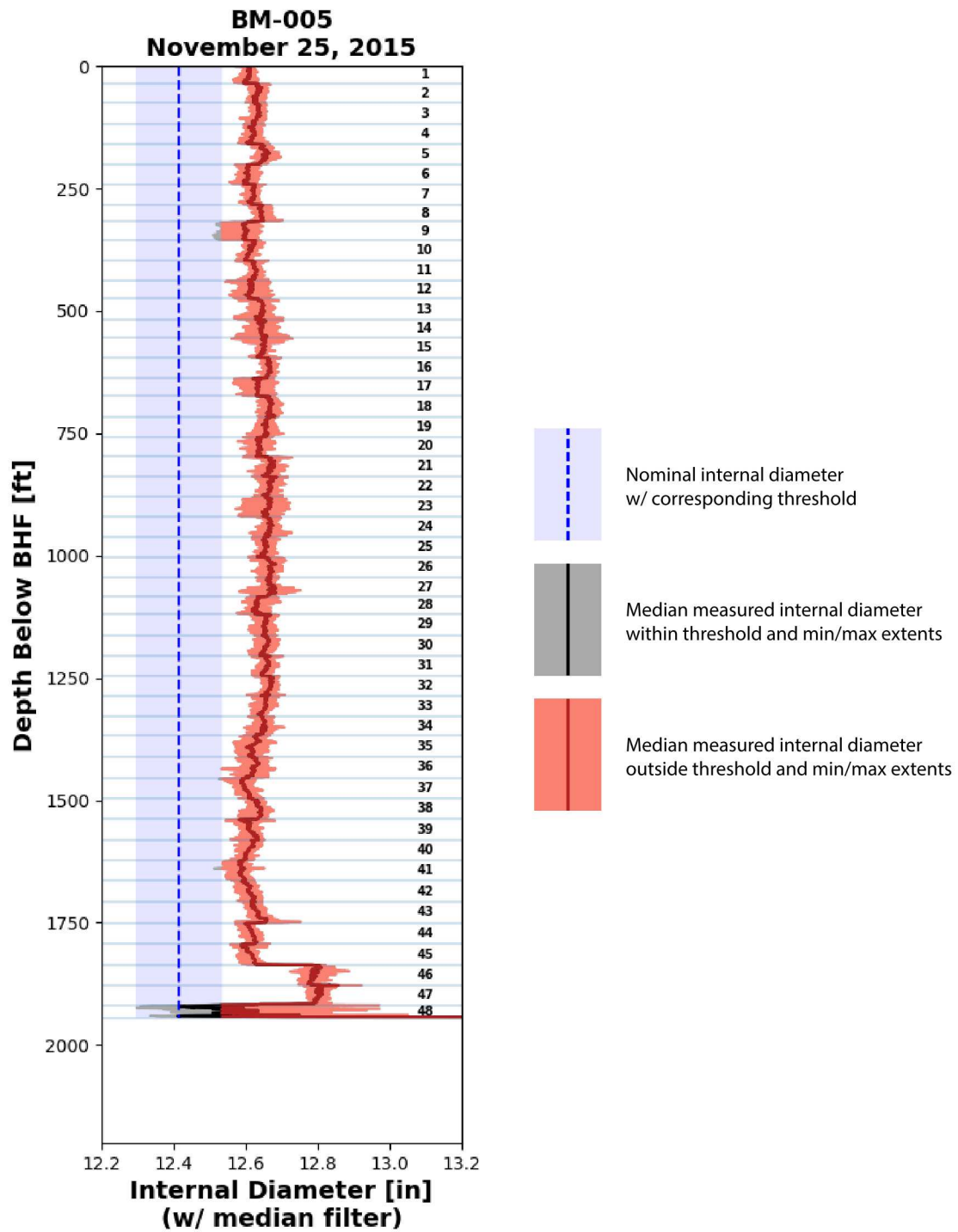


Figure 3.11: Measured internal diameter of BM-005 taken on November 25, 2015. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.8 Bryan Mound 005A

There have been two surveys of BM-005A; one in 2009 and another in 2014. The first survey, shown in Figure 3.12, has many of the sections outside of the specified threshold with a large variation in internal diameter. This is likely due to a poorly calibrated MAC as second survey shows all sections within the as-built threshold and a small spread in internal diameter.

Table 3.9: BM-005A Innermost Cemented Casing As-Built Information

Grade	Outside Diameter		Connection Type		
K-55	13 3/8"		ST&C		

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
54.5	0	2026	0.38	12.615	1130

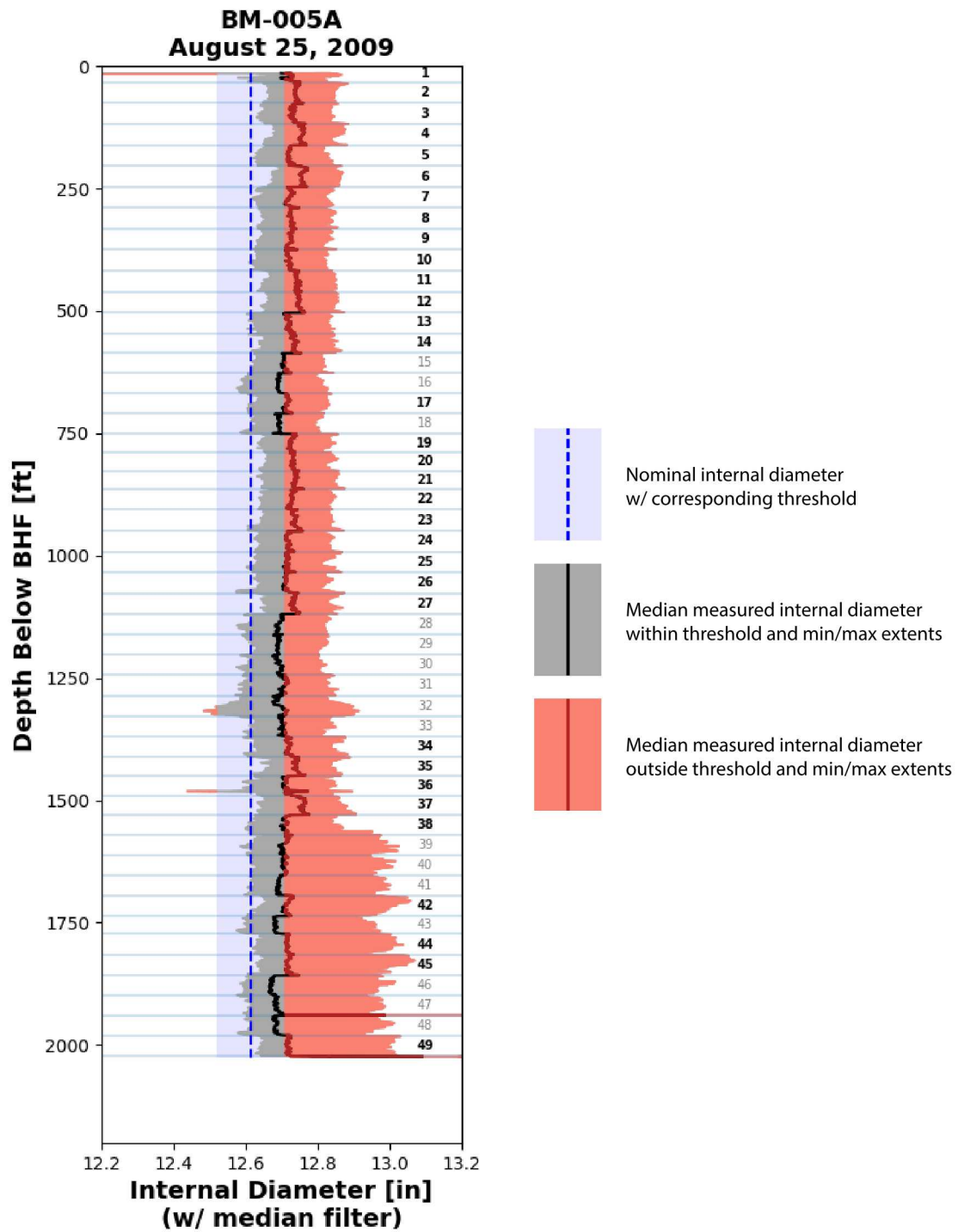


Figure 3.12: Measured internal diameter of BM-005A taken on August 25, 2009. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

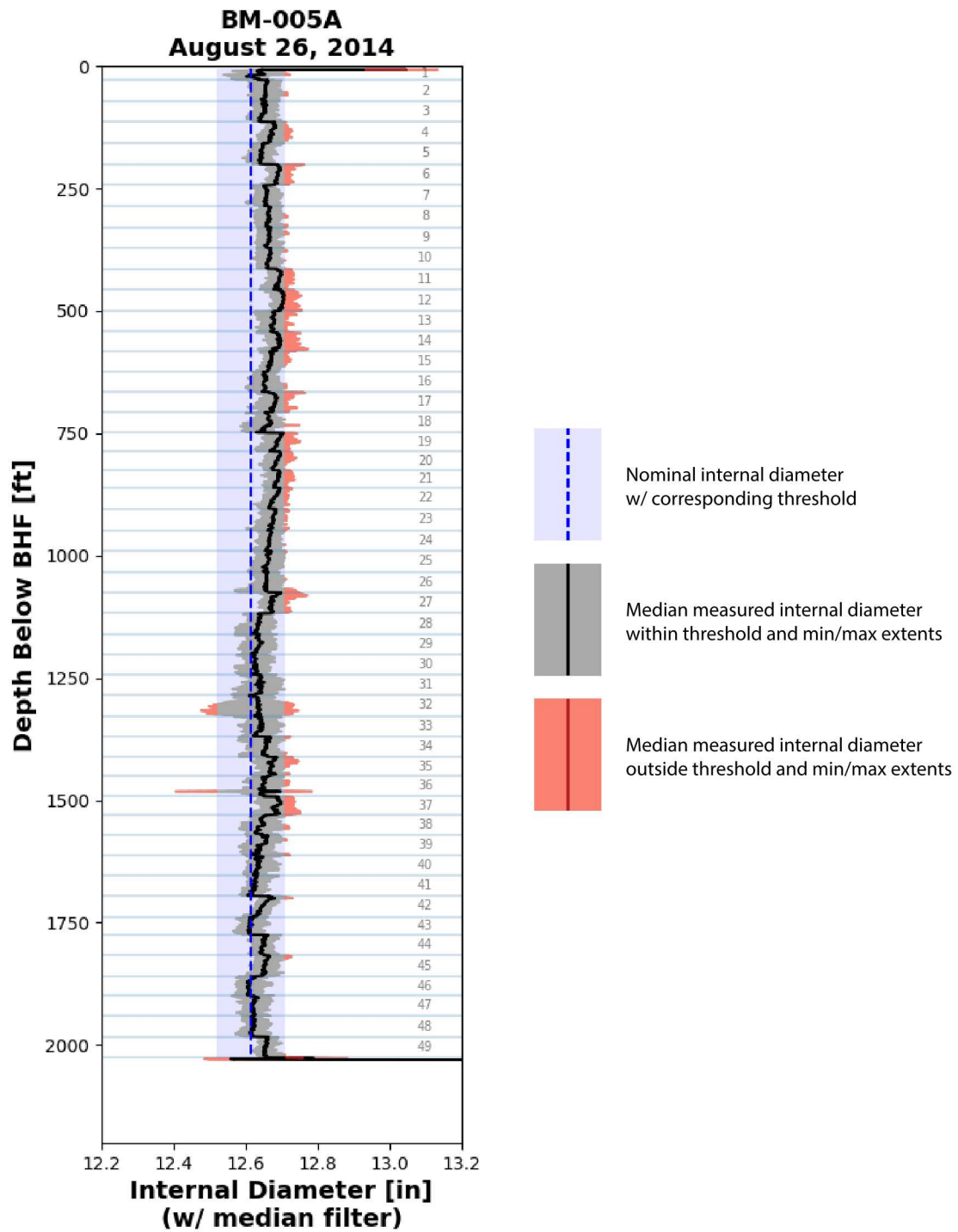


Figure 3.13: Measured internal diameter of BM-005A taken on August 26, 2014. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.9 Bryan Mound 005C

There have been two surveys of Bryan Mound 005C. The first, shown in Figure 3.14, has a large variation between the minimum and maximum internal diameter measurements. Despite this, all but one of the well sections are calculated to be within tolerance. The only section calculated to be outside tolerance, section 34, is closer to a 61 #/ft casing than the as-built 54.5 #/ft. It should be noted that this survey did not measure the first well section below the bradenhead flange. This means the casing section numbering is different between the two surveys.

The second survey, shown in Figure 3.15, was taken in 2017 and contradicts the minimum and maximum internal diameters in the previous survey. Despite that difference, most of the median measurements are still within nominal tolerance. The one section out of tolerance is the same section seen in previous survey.

Table 3.10: BM-005C Innermost Cemented Casing As-Built Information

Grade		Outside Diameter		Connection Type	
K-55		13 3/8"		ST&C	

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
54.5	0	1928	0.38	12.615	1130

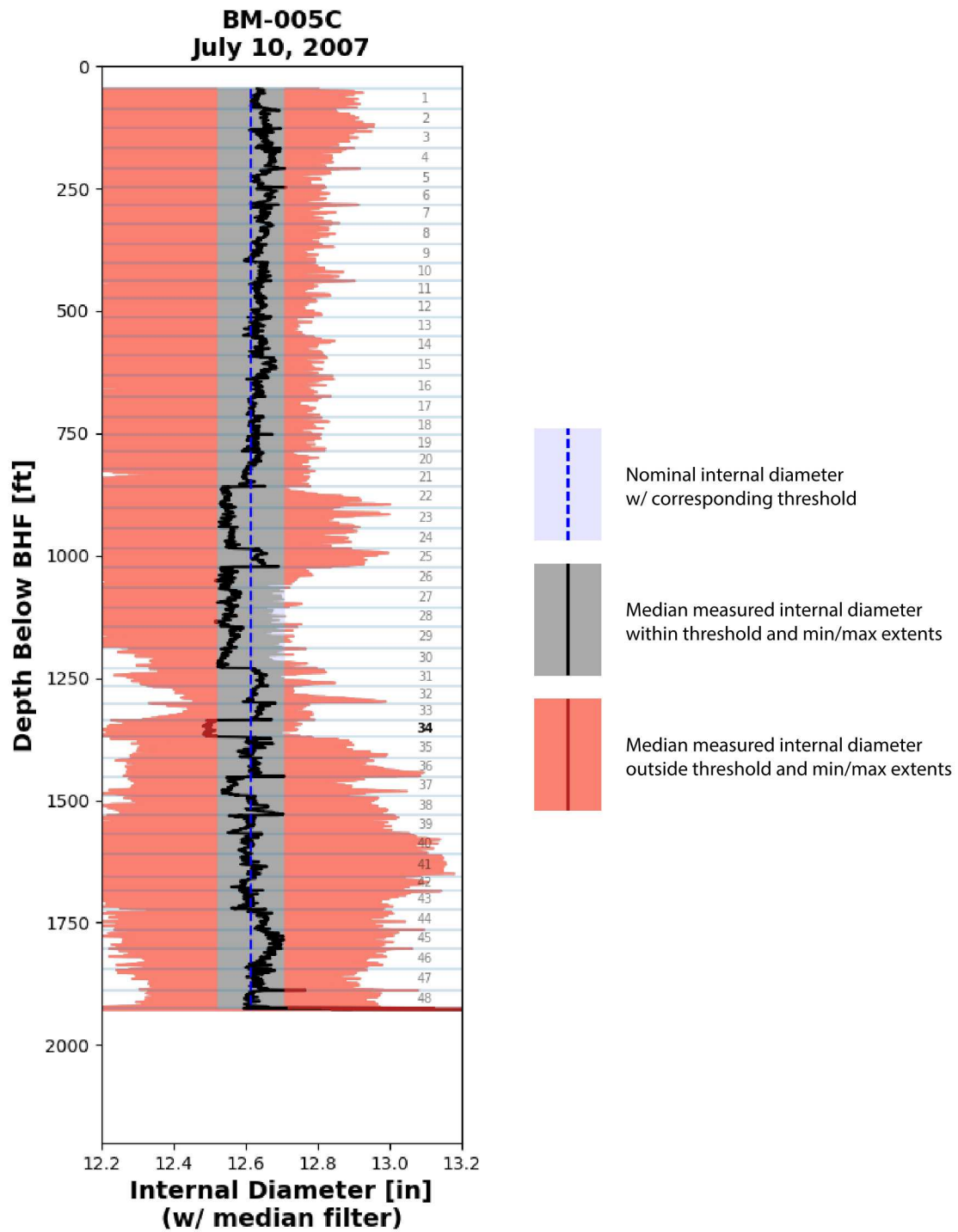


Figure 3.14: Measured internal diameter of BM-005C taken on July 10, 2007. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

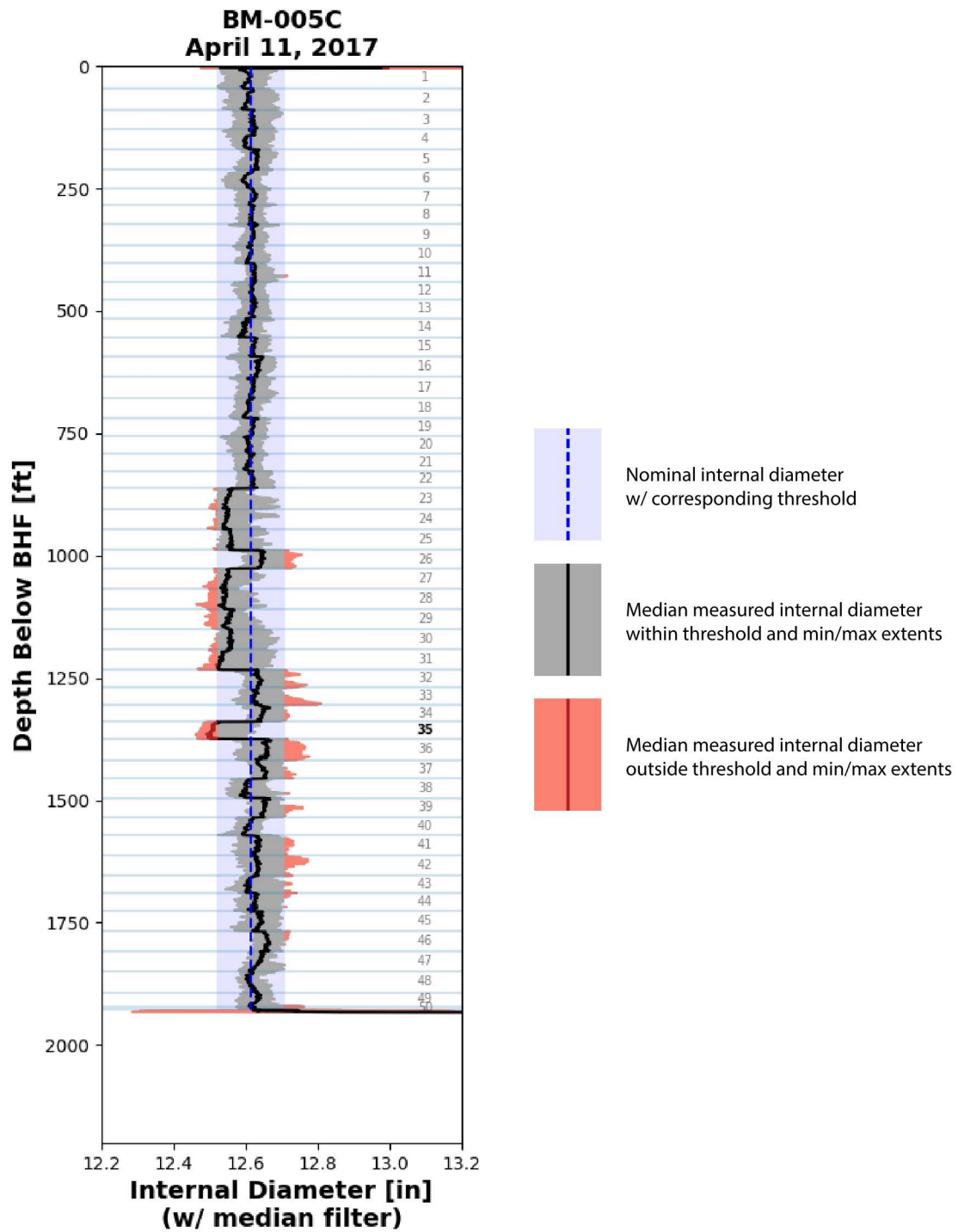


Figure 3.15: Measured internal diameter of BM-005C taken on April 11, 2017. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.10 Bryan Mound 101A

There have been two surveys of BM-101A, one on May 3rd, 2011 and another five days later on May 8th. Both surveys show similar results but the first, shown in Figure 3.16, has a higher measured inner diameter. Most of the well sections in the upper half of the well are outside tolerance. This is not the case in the second survey several days later where only three sections are out of tolerance. Regardless, it appears the upper half and lower half of the well are made of different weight casings. It is likely the well is made up of both 84 and 75 #/ft. casings instead of just 84 #/ft. as shown in the as-built drawings.

Table 3.11: BM-101A Innermost Cemented Casing As-Built Information

Grade	Outside Diameter		Connection Type		
K-55	16"		ST&C		

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
84	0	1995	0.495	15.01	1410

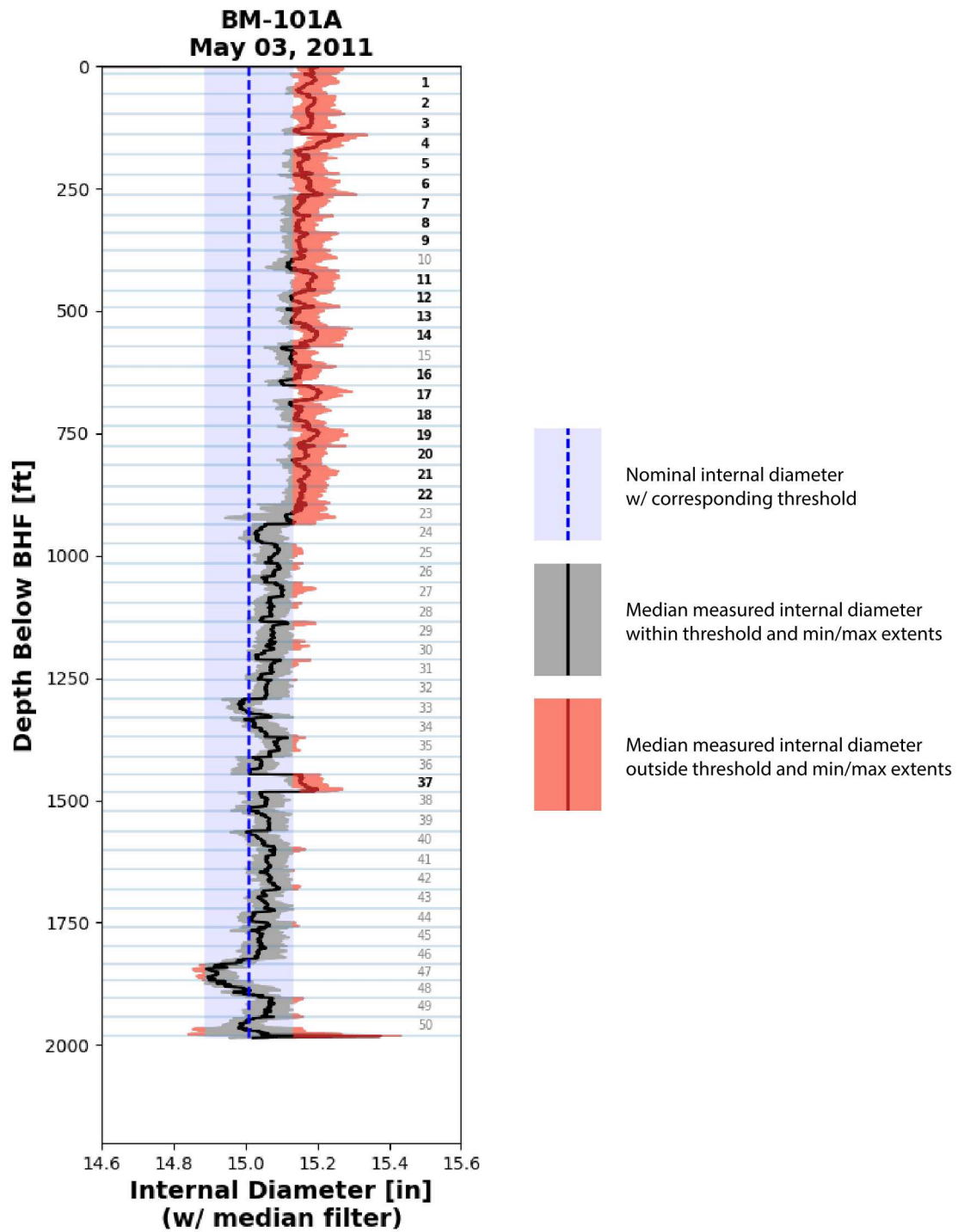


Figure 3.16: Measured internal diameter of BM-101A taken on May 03, 2011. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

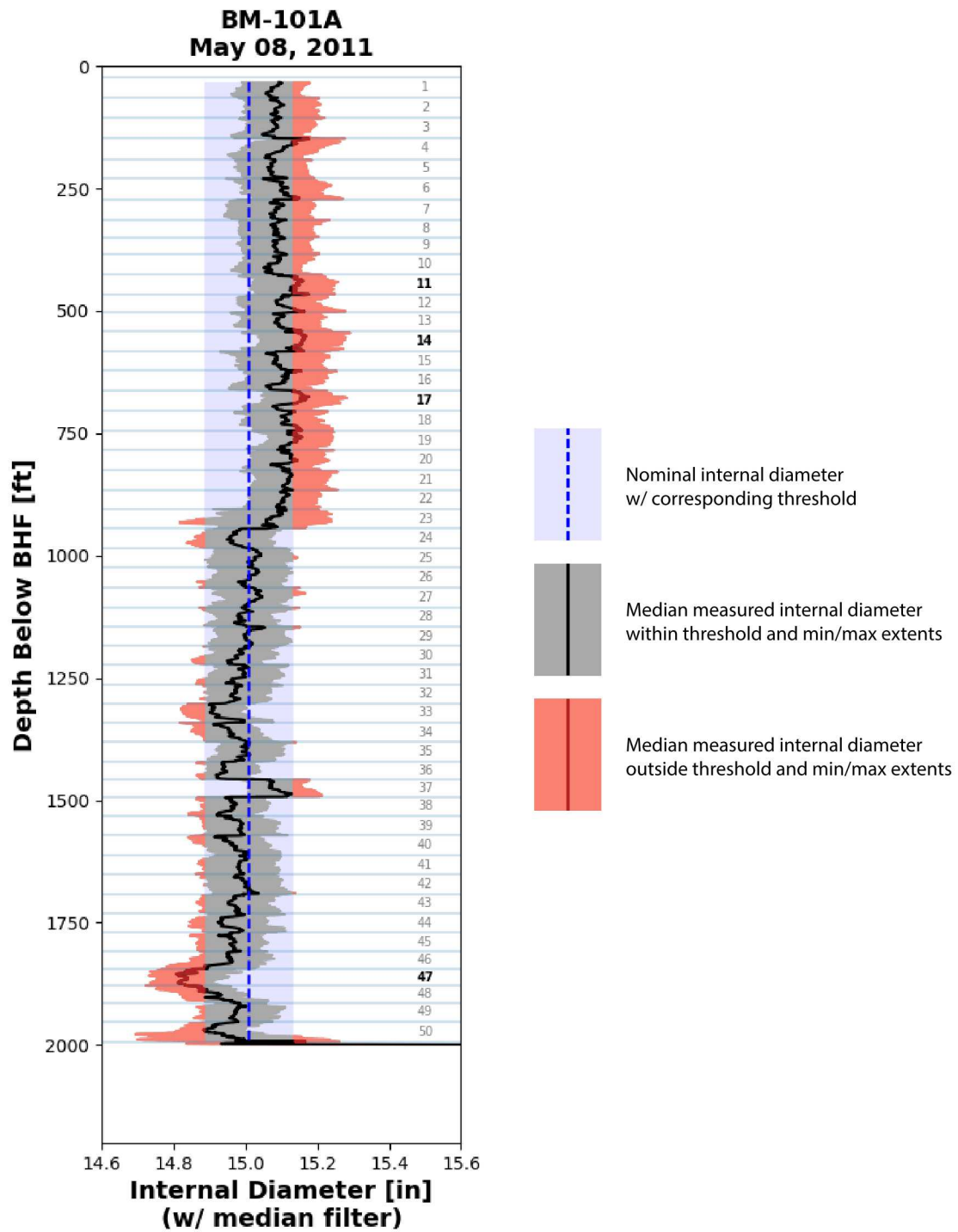


Figure 3.17: Measured internal diameter of BM-101A taken on May 05, 2017. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.11 Bryan Mound 101C

There have been two MAC surveys of Bryan Mound 101C, one before the installation of a liner and another after. The innermost cemented casing showed most of the well casings within the as-built tolerance.

While as-built drawings for the installed liner were not available at the time of writing, the measured inner diameter of the installed liner reflects a 68 #/ft., 13 3/8" casing.

Table 3.12: BM-101C Innermost Cemented Casing As-Built Information

Grade		Outside Diameter		Connection Type	
K-55		16"		ST&C	

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
75	0	183	0.438	15.124	1020
84	183	2019	0.495	15.01	1410

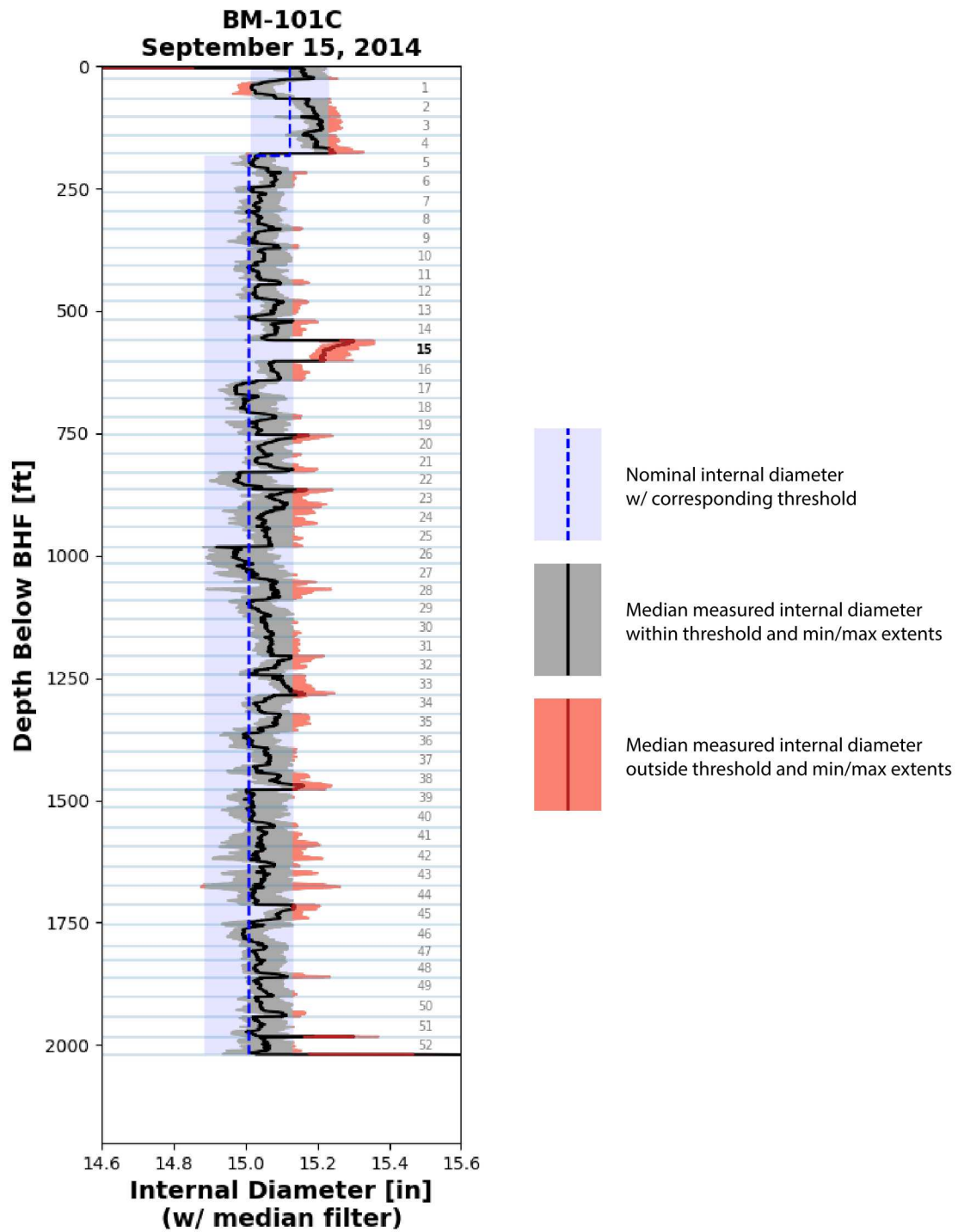


Figure 3.18: Measured internal diameter of BM-101C taken on September 15, 2014. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

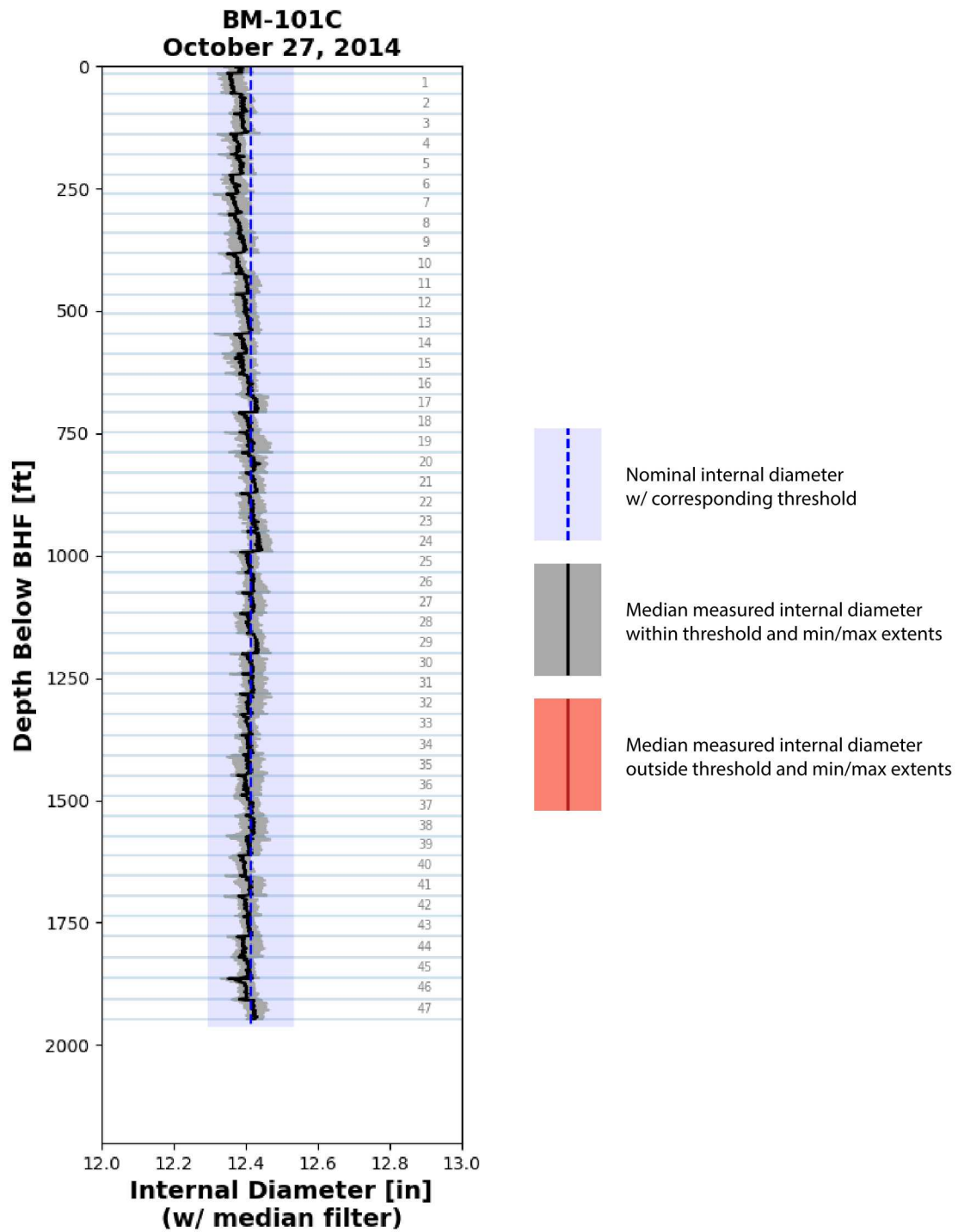


Figure 3.19: Measured internal diameter of BM-101C taken on October 27, 2014. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.12 Bryan Mound 102B

Bryan Mound 102B has only been surveyed once. Most well casings are within tolerance. It is likely, however, that casing section number 42 is closer to a 75 #/ft. weight casing, as opposed to the 84 #/ft casing specified in as-built drawing.

Table 3.13: BM-102B Innermost Cemented Casing As-Built Information

Grade	Outside Diameter	Connection Type
K-55	16"	ST&C

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
84	0	2032	0.495	15.01	1410

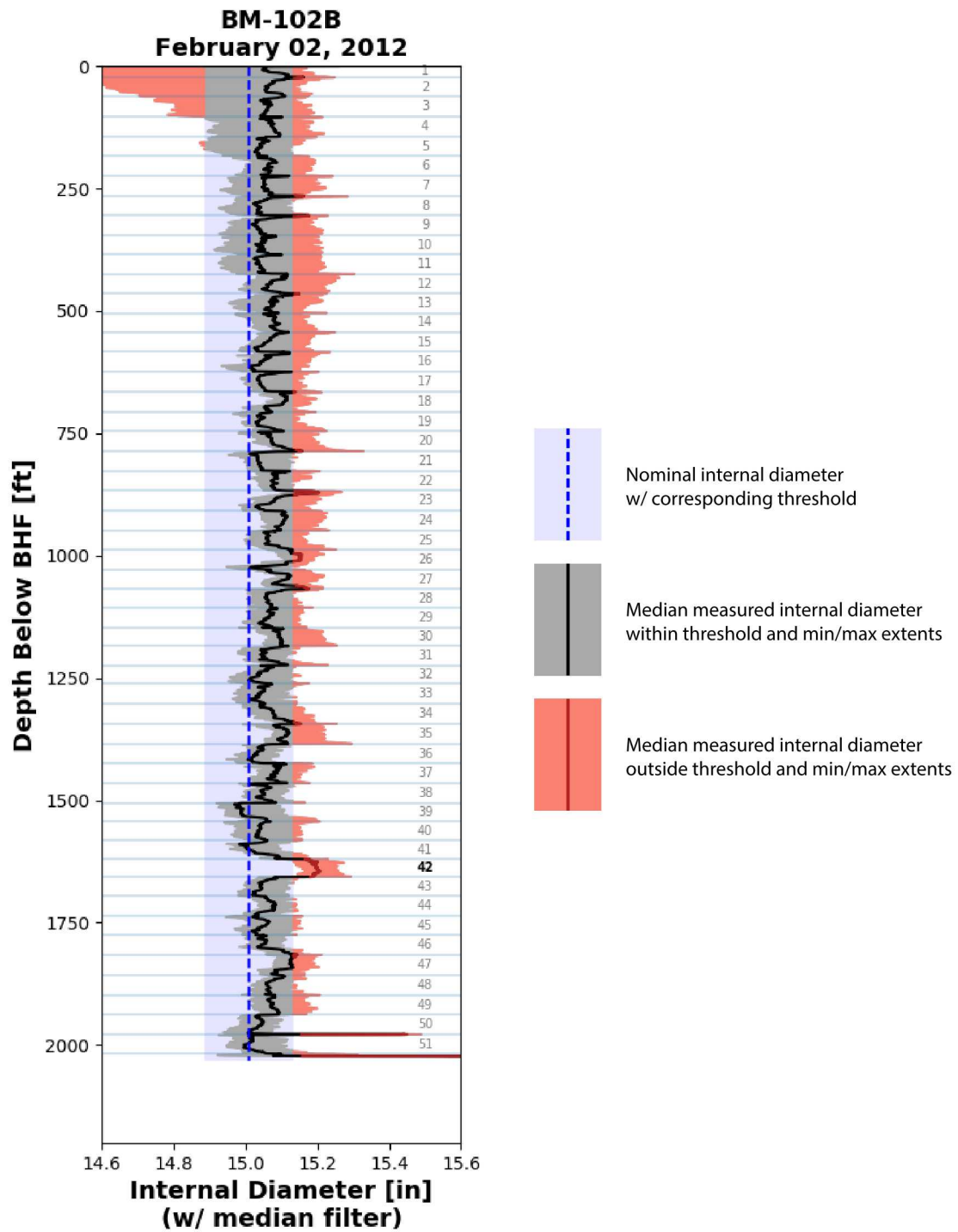


Figure 3.20: Measured internal diameter of BM-102B taken on February 02, 2012. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.13 Bryan Mound 102C

There was a single MAC survey taken of Bryan Mound 102C. The 2012 survey shows that all well sections are measured to be near the nominal value.

Table 3.14: BM-102C Innermost Cemented Casing As-Built Information

Grade		Outside Diameter		Connection Type	
K-55		16"		ST&C	

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
84	0	1994	0.495	15.01	1410

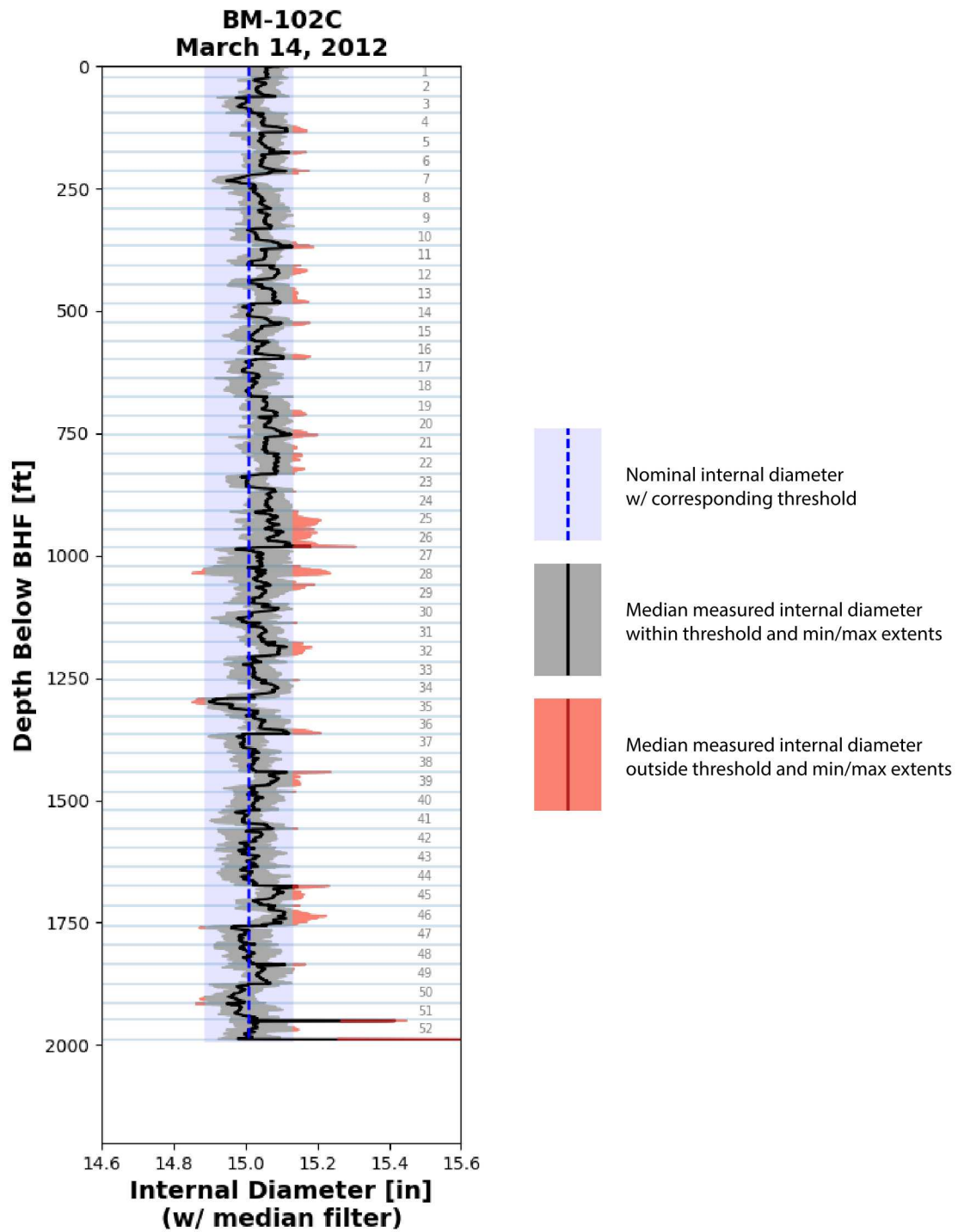


Figure 3.21: Measured internal diameter of BM-102C taken on March 03, 2012. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.14 Bryan Mound 103B

There have been three surveys of Bryan Mound 103B. The first two surveys (Figures 3.22 and 3.23) measured the innermost cemented casing. Some sections are out of tolerance. Specifically, it looks as if the 75 #/ft. casings supposed to be in sections 37-41 were switched with the 84 #/ft casings supposed to be in sections 42-46.

While no as-builts of the installed liner were available, the liner reflects a 61 #/ft., 13 3/8" casing.

Table 3.15: BM-103B Innermost Cemented Casing As-Built Information

Grade		Outside Diameter		Connection Type	
K-55		16"		ST&C	

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
75	0	1584	0.438	15.124	1020
84	1584	1990	0.495	15.01	1410

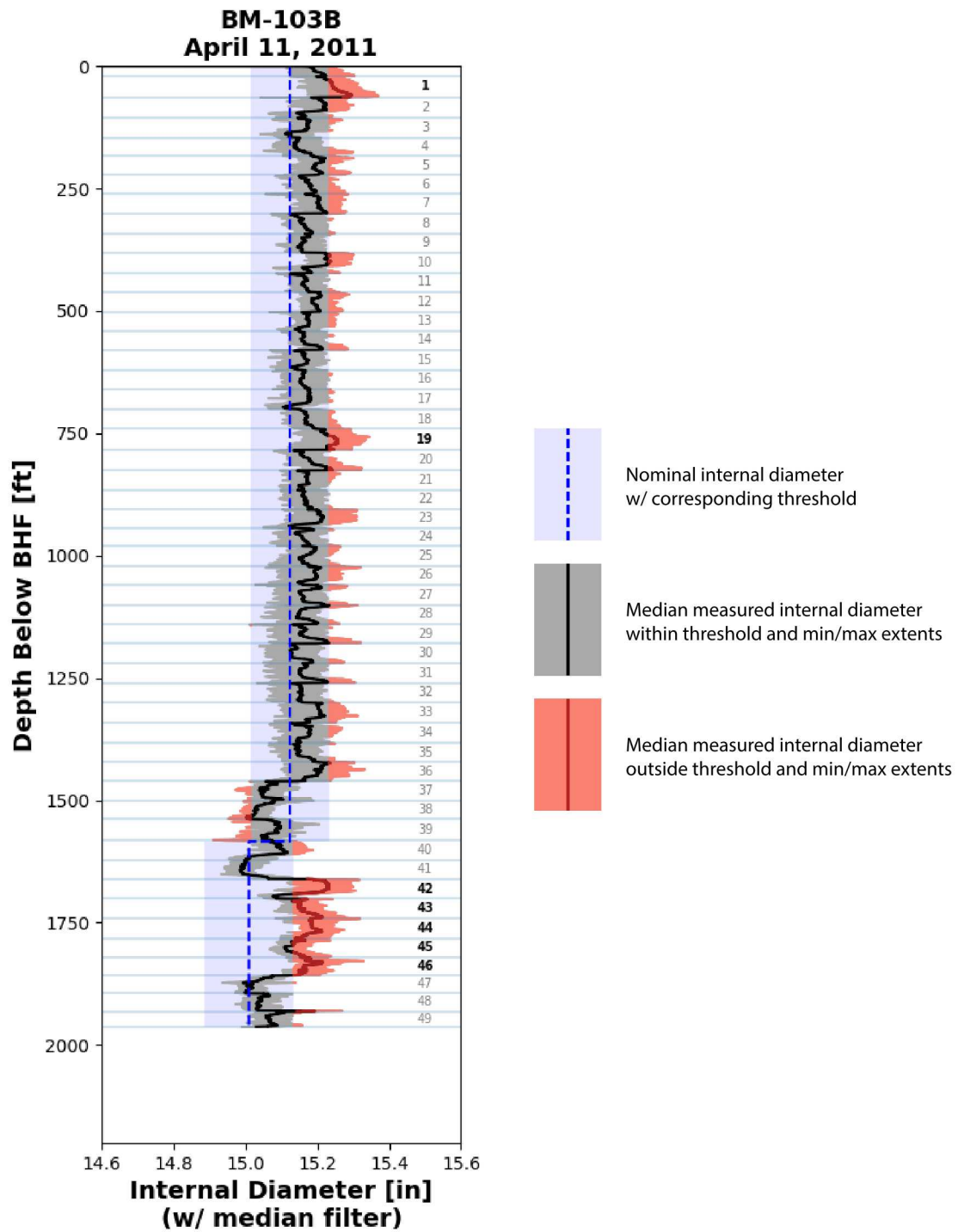


Figure 3.22: Measured internal diameter of BM-103B taken on April 11, 2011. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

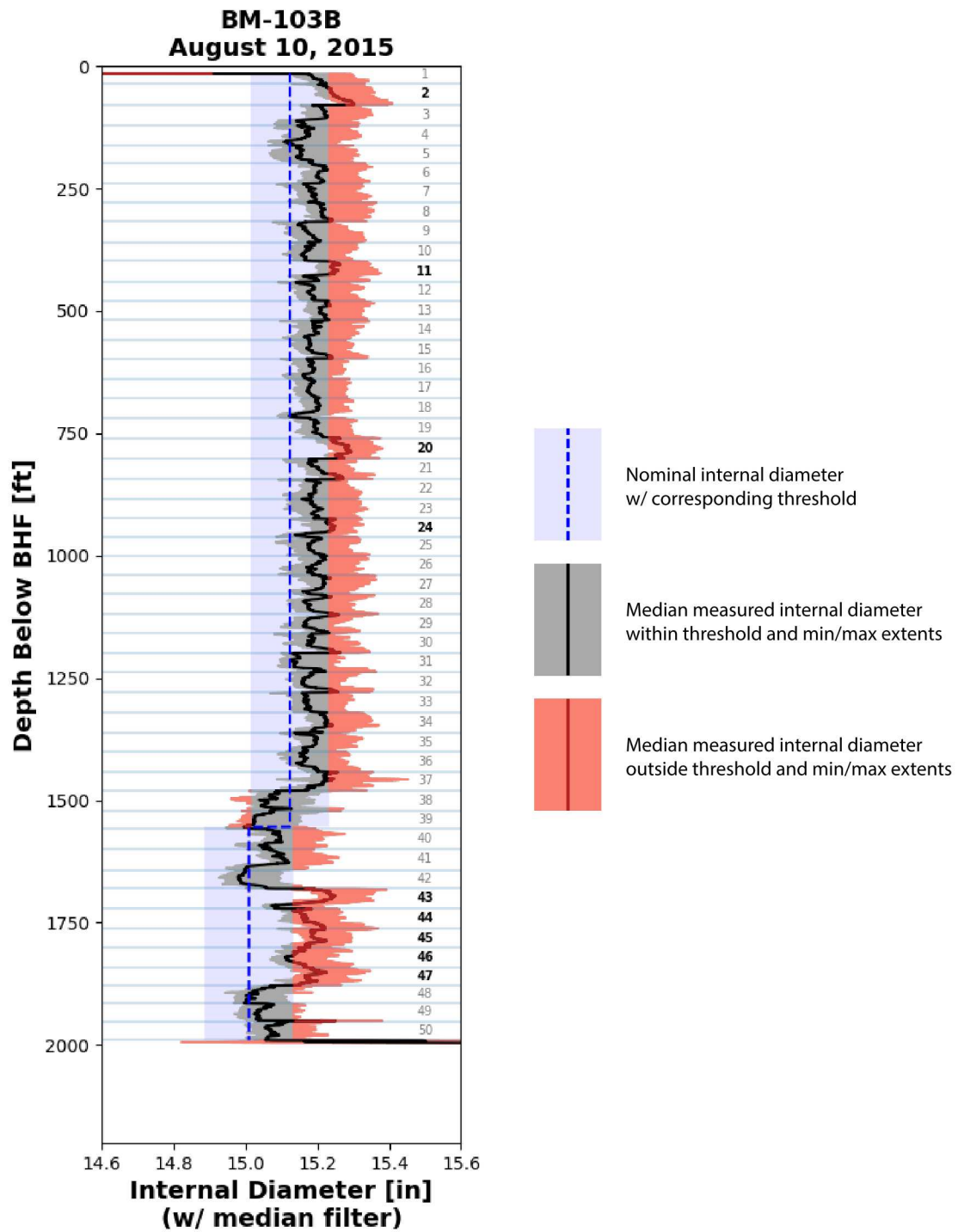


Figure 3.23: Measured internal diameter of BM-103B taken on August 10, 2015. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

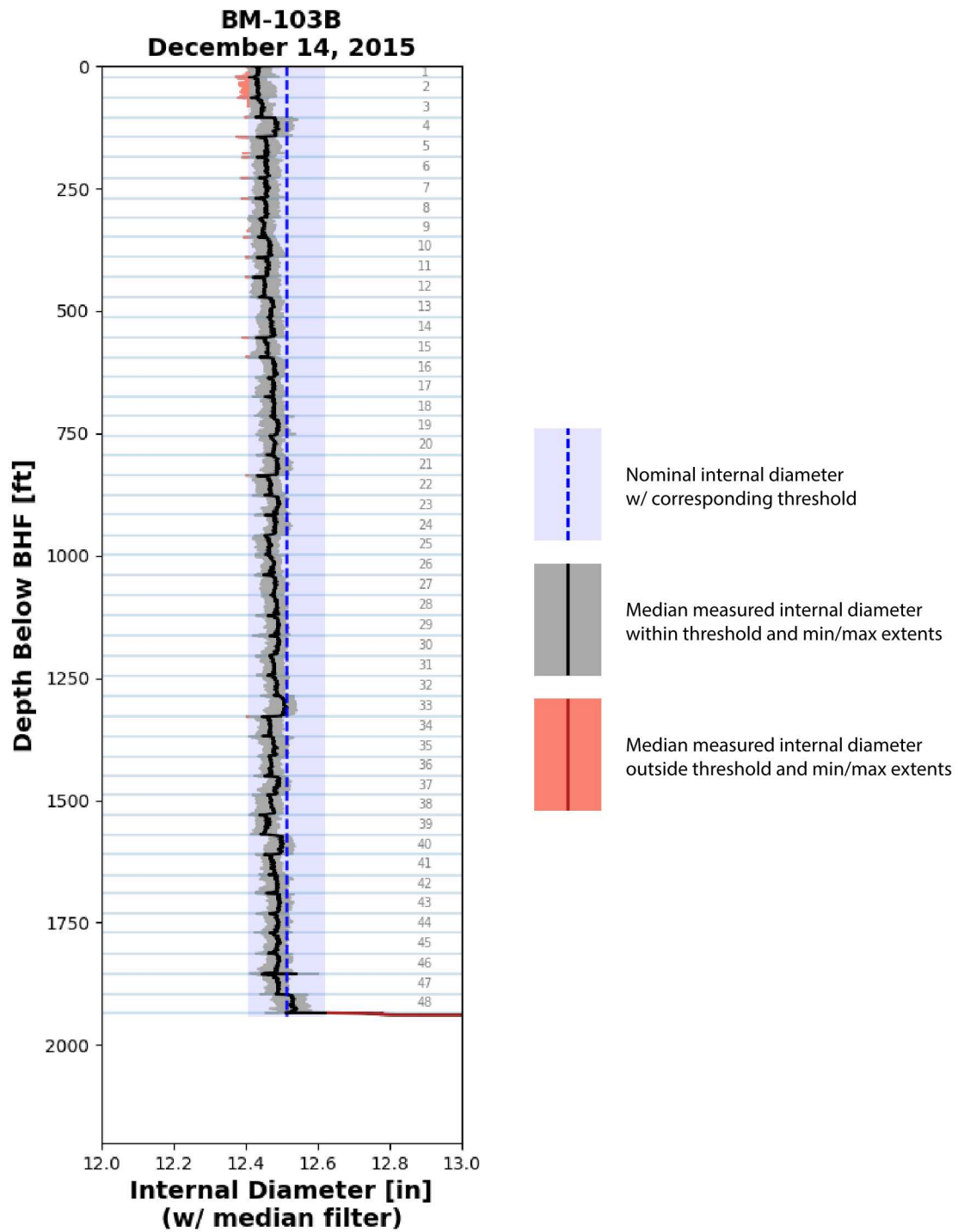


Figure 3.24: Measured internal diameter of BM-103B taken on December 14, 2015. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.15 Bryan Mound 103C

Bryan Mound 103C has been surveyed three times, twice before the installation of a liner and again after the liner was installed. The first survey recorded noisy measurements of the internal diameter. The second survey showed most of all of the well casings within tolerance.

Although no as-built drawings were available for the installed liner, it was assumed the liner is a 13 3/8", 61 #/ft. casing.

Table 3.16: BM-103C Innermost Cemented Casing As-Built Information

Grade		Outside Diameter		Connection Type	
K-55		16"		ST&C	

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
75	0	1633	0.438	15.124	1020
84	1633	1991	0.495	15.01	1410

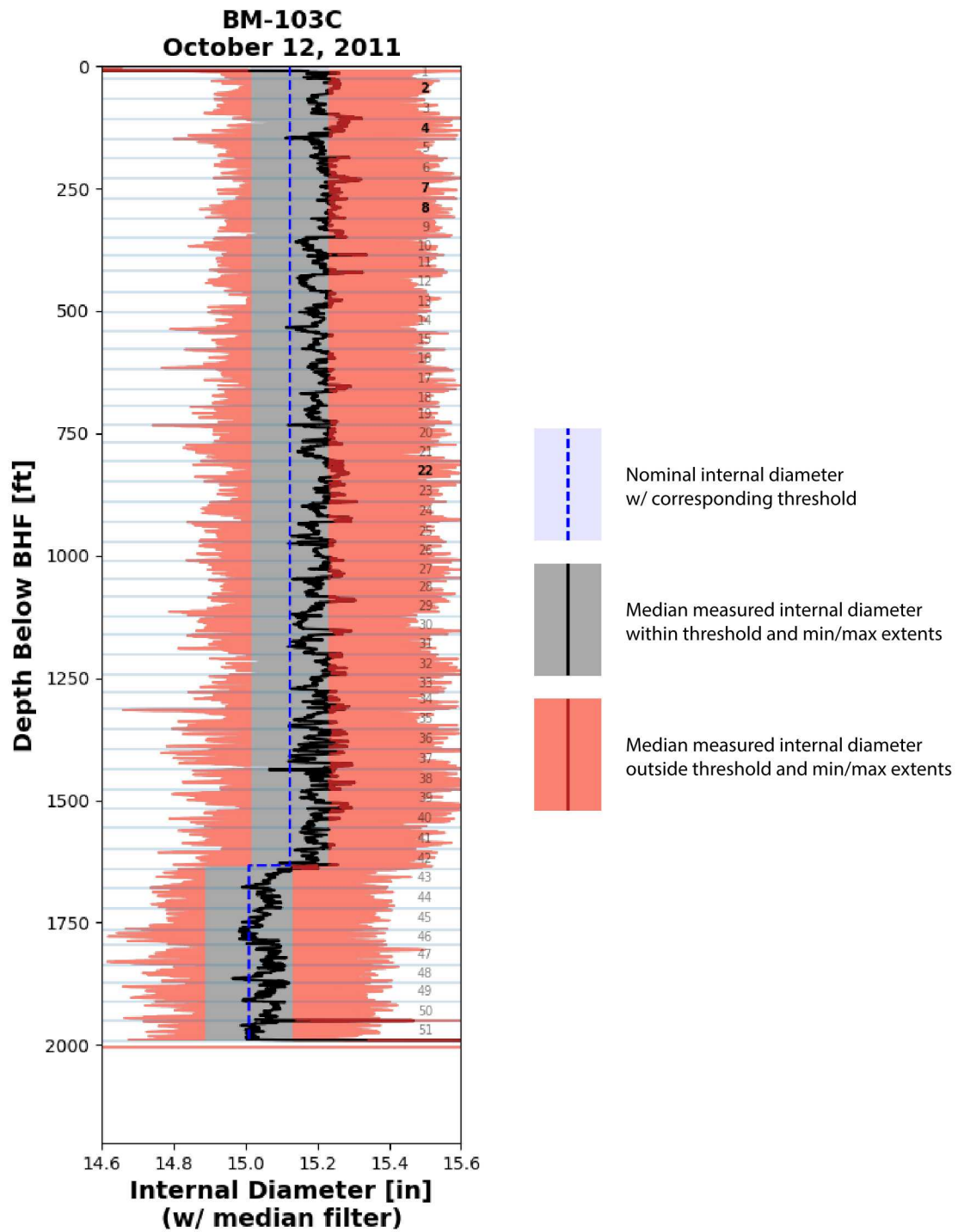


Figure 3.25: Measured internal diameter of BM-103C taken on October 10, 2011. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

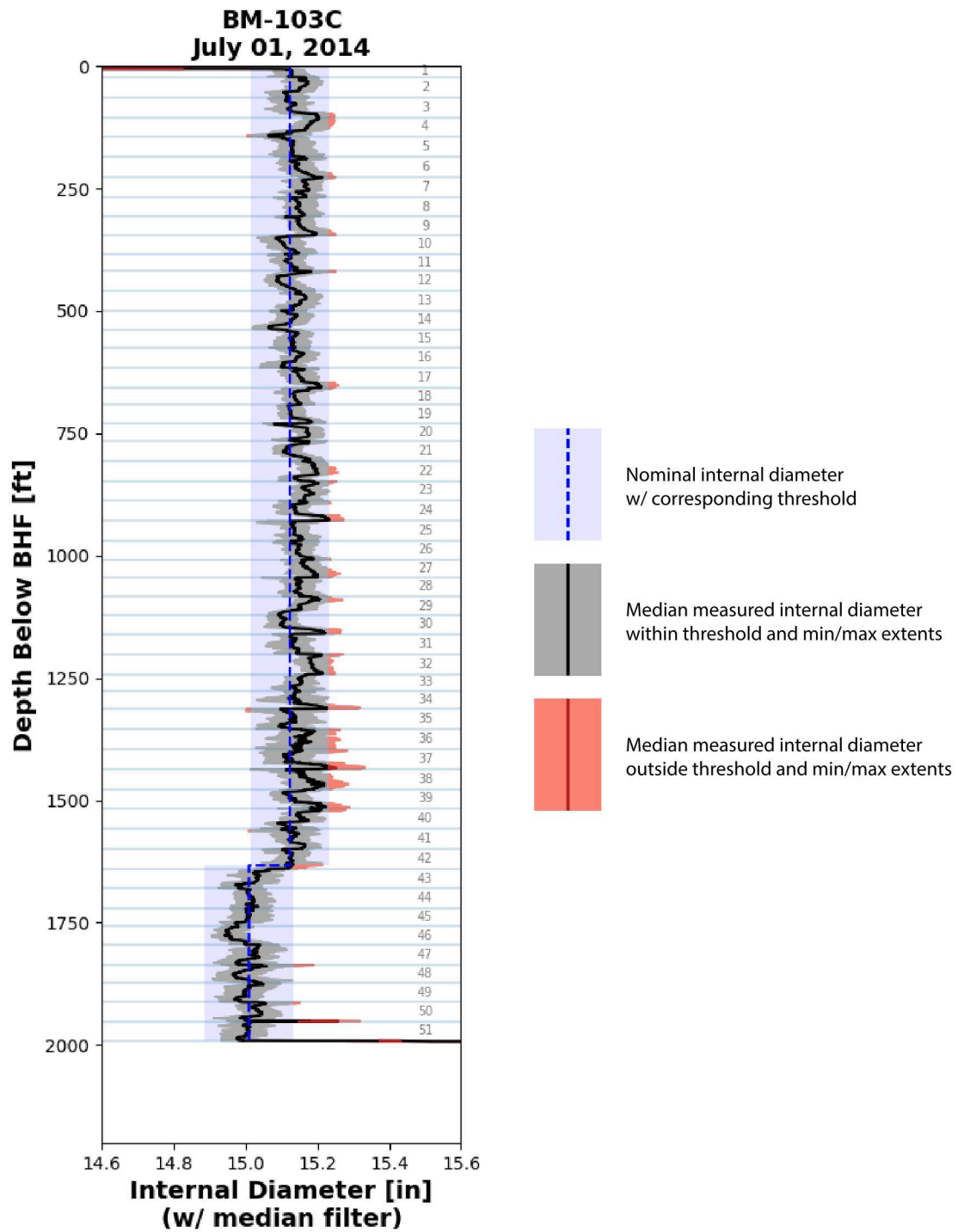


Figure 3.26: Measured internal diameter of BM-103C taken on July 01, 2014. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

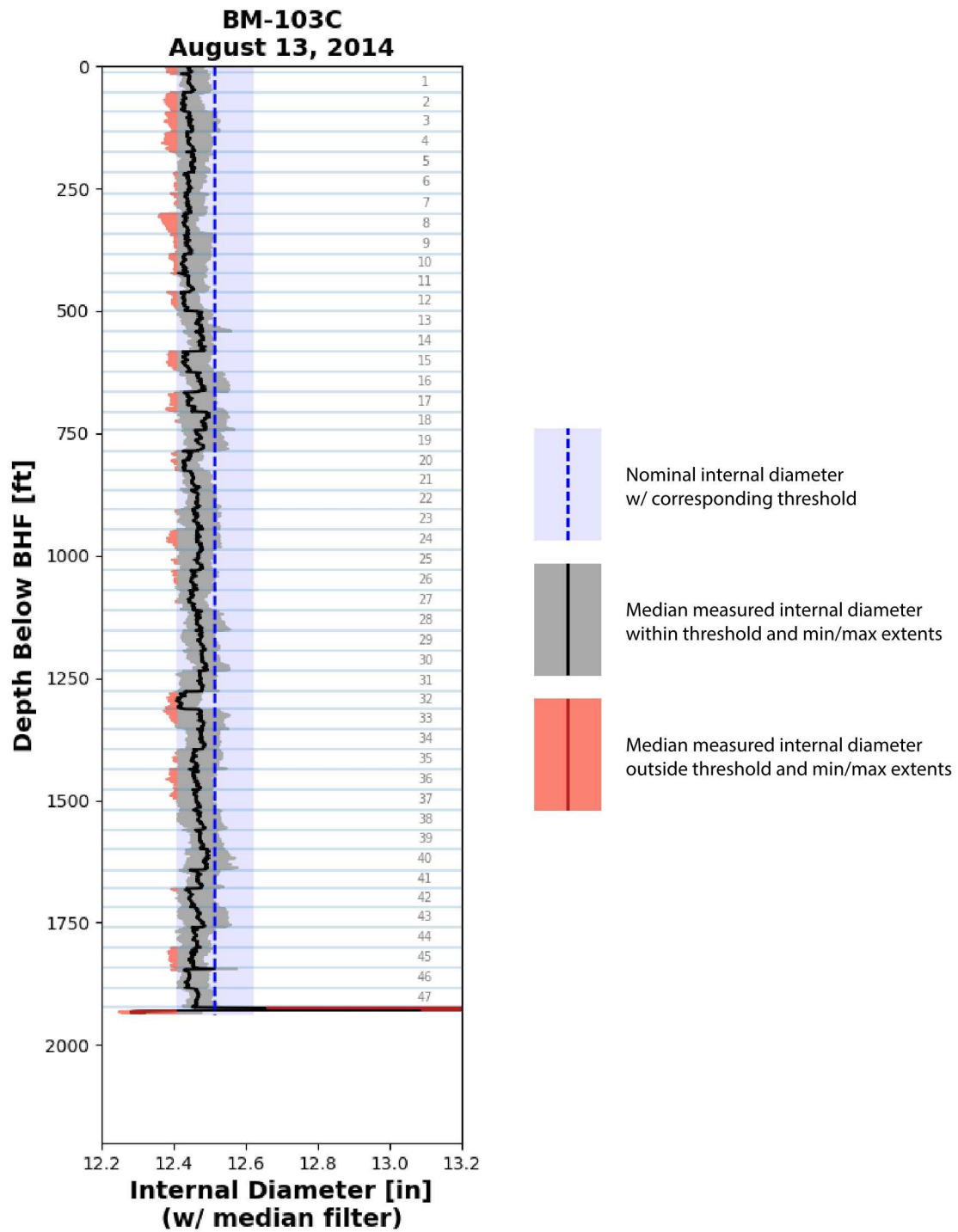


Figure 3.27: Measured internal diameter of BM-103C taken on August 13, 2014. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.16 Bryan Mound 104A

Both surveys show a higher inner diameter than the nominal value, however, most of the measurements from the most recent survey are within the nominal tolerance. This suggests that the first survey results suffered from a poorly calibrated MAC tool.

Table 3.17: BM-104A Innermost Cemented Casing As-Built Information

Grade	Outside Diameter		Connection Type		
K-55	13 3/8"		ST&C		

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
54.5	0	1624	0.38	12.615	1130
61	1624	1987	0.43	12.515	1540

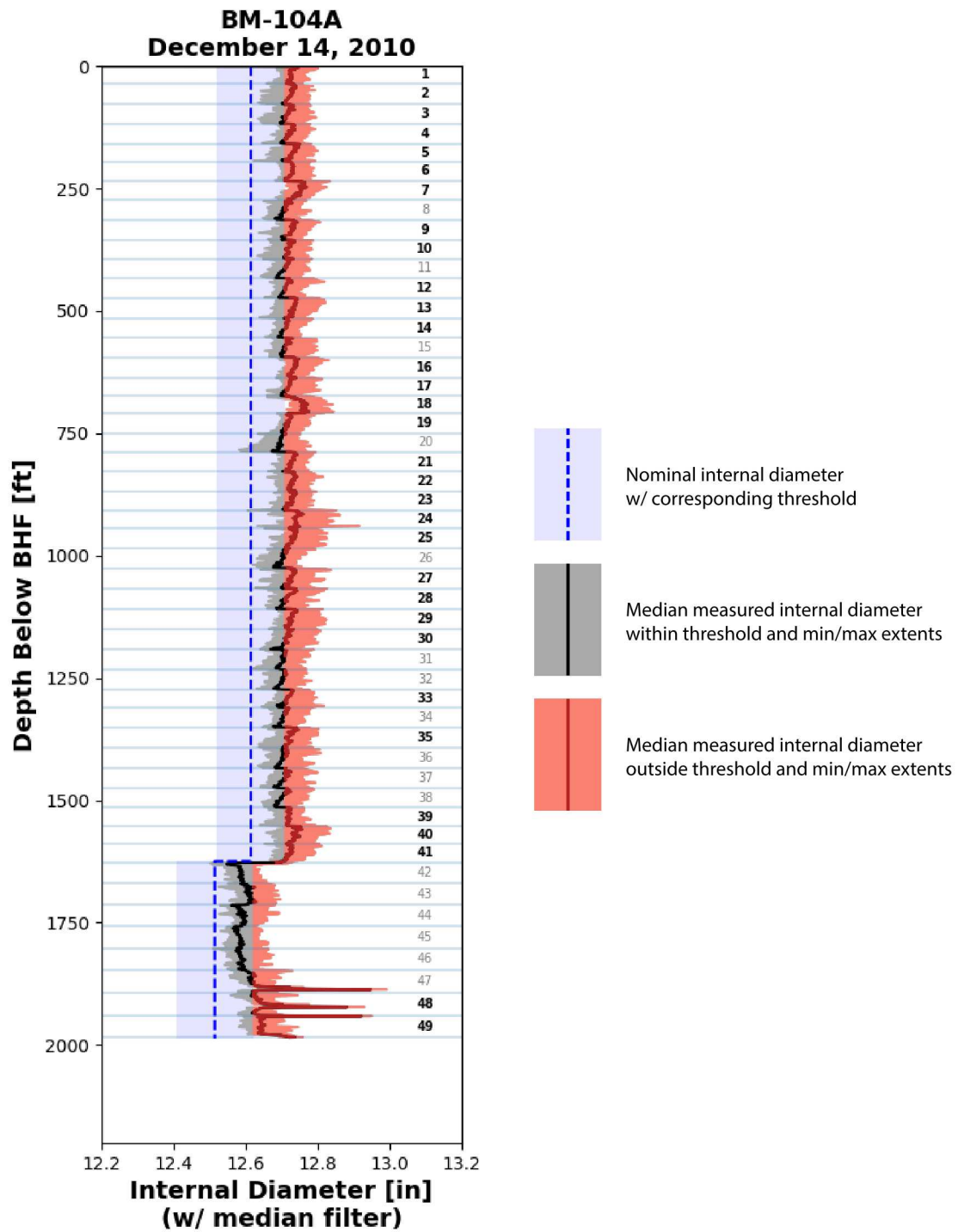


Figure 3.28: Measured internal diameter of BM-104A taken on December 14, 2010. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

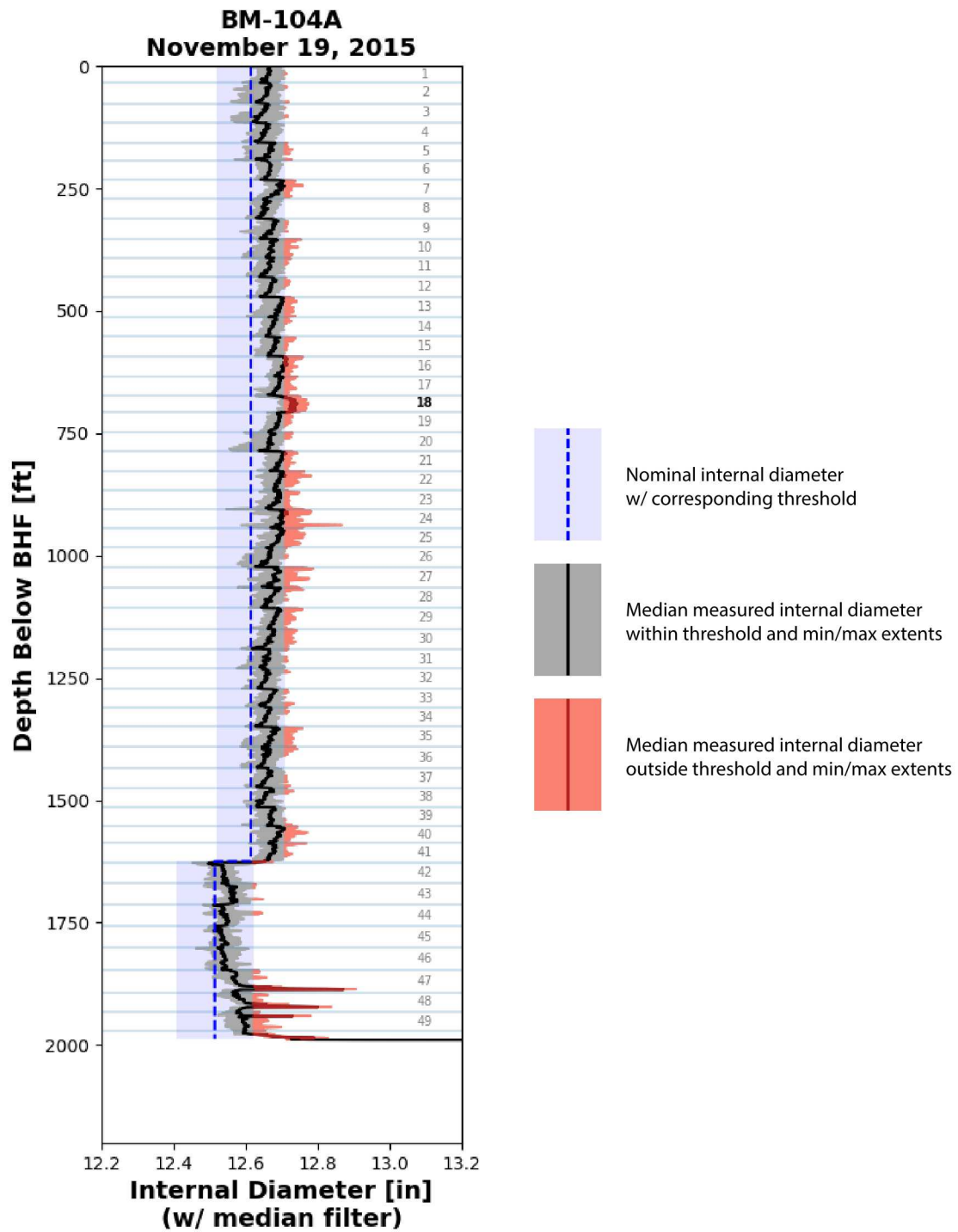


Figure 3.29: Measured internal diameter of BM-104A taken on November 19, 2015. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.17 Bryan Mound 104B

There are currently no MAC caliper surveys currently available.

3.18 Bryan Mound 104C

There have been two surveys of BM-104C, one in 2010 and another in 2015. The first shows noisier measurements with the majority of sections being calculated out of tolerance. The second, more recent survey shows all of the sections are calculated to be within tolerance and near the nominal value. This would suggest data from the first survey was affected by a poorly calibrated MAC tool.

Table 3.18: BM-104C Innermost Cemented Casing As-Built Information

Grade		Outside Diameter		Connection Type	
K-55		13 3/8"		ST&C	

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
54.5	0	1672	0.38	12.615	1130
61	1672	1992	0.43	12.515	1540

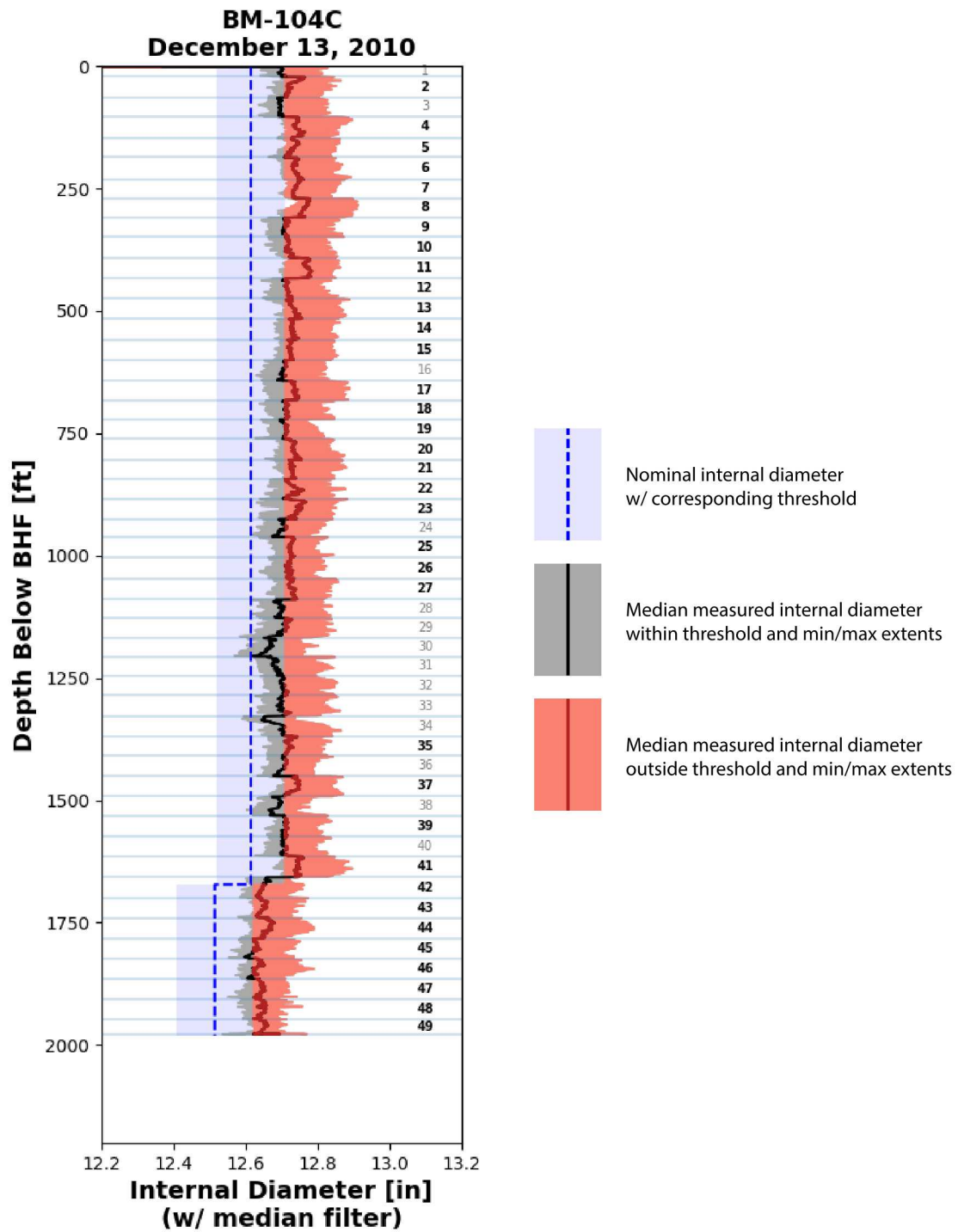


Figure 3.30: Measured internal diameter of BM-104C taken on December 13, 2010. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

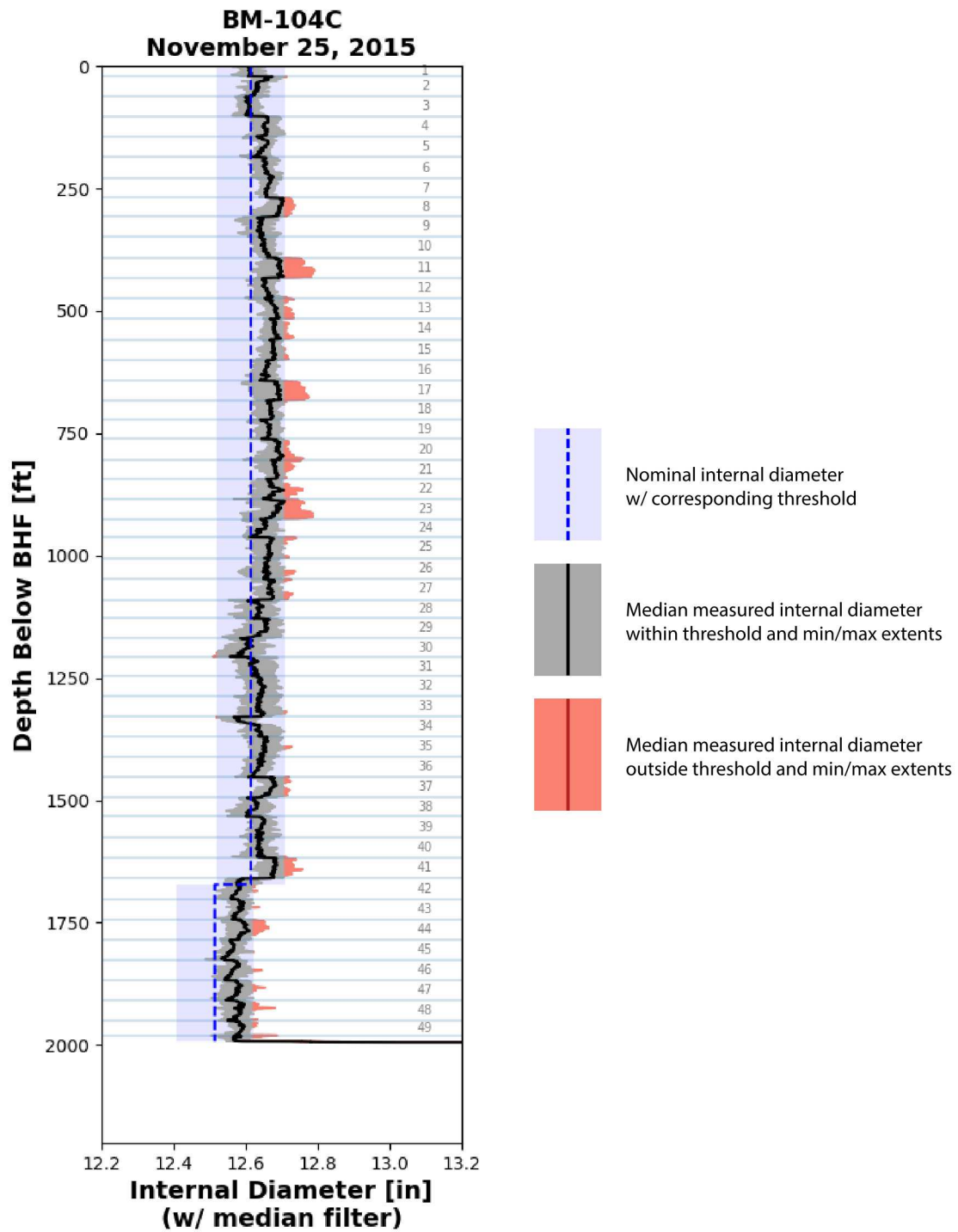


Figure 3.31: Measured internal diameter of BM-104C taken on November 25, 2015. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.19 Bryan Mound 105B

There have been two surveys of BM-105B, one in 2011 and another in 2016. While most of the casing sections are within the nominal tolerance, both surveys show a variable inner diameter within that tolerance. The largest variation is in section 29 and has inner diameter measurements above and below the tolerance expected for that casing. In addition, section 7 is out of tolerance in both surveys. The measured inner diameter is larger than expected.

Table 3.19: BM-105B Innermost Cemented Casing As-Built Information

Grade	Outside Diameter		Connection Type		
K-55	16"		ST&C		

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
84	0	1980	0.495	15.01	1410

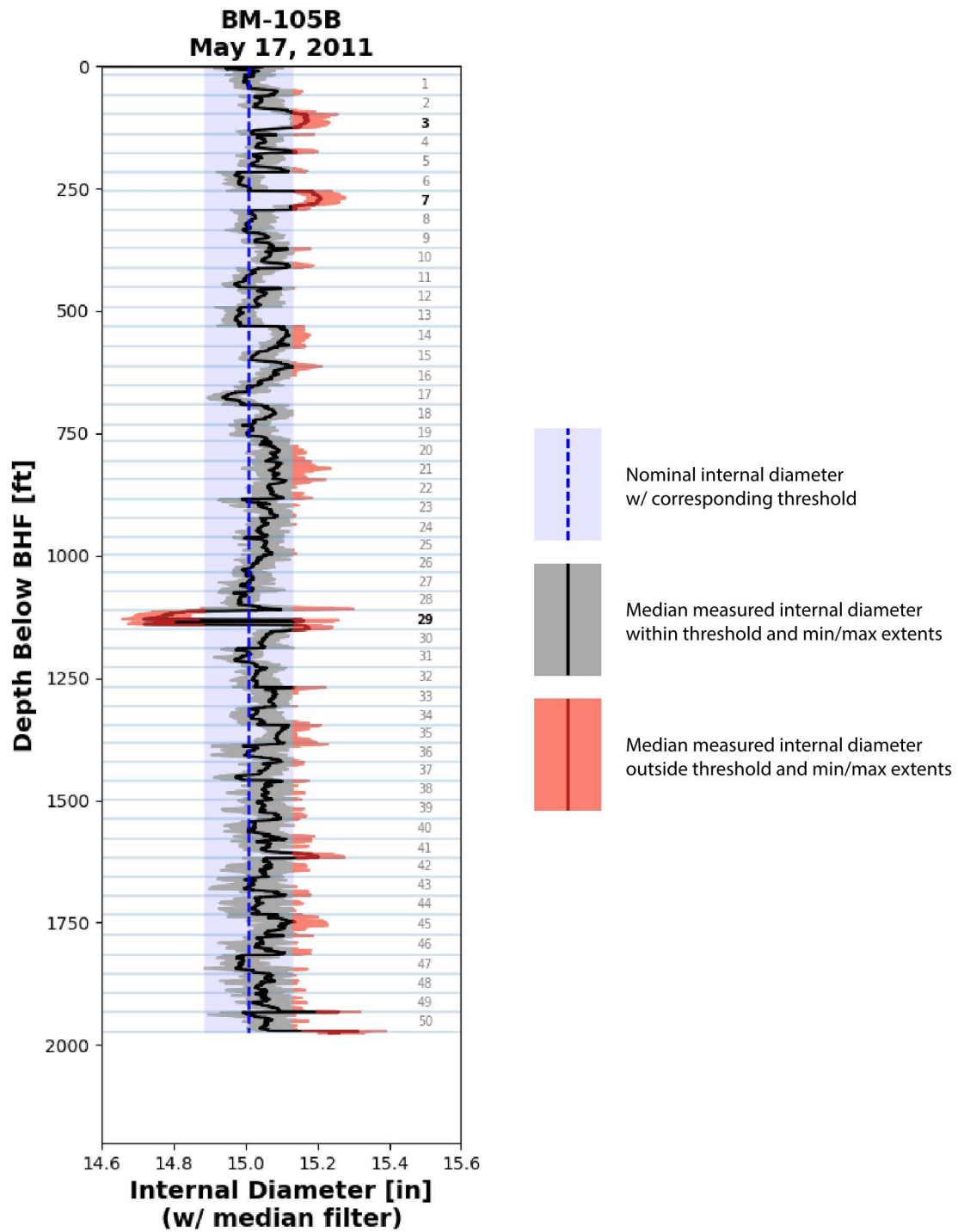


Figure 3.32: Measured internal diameter of BM-105B taken on May 17, 2011. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

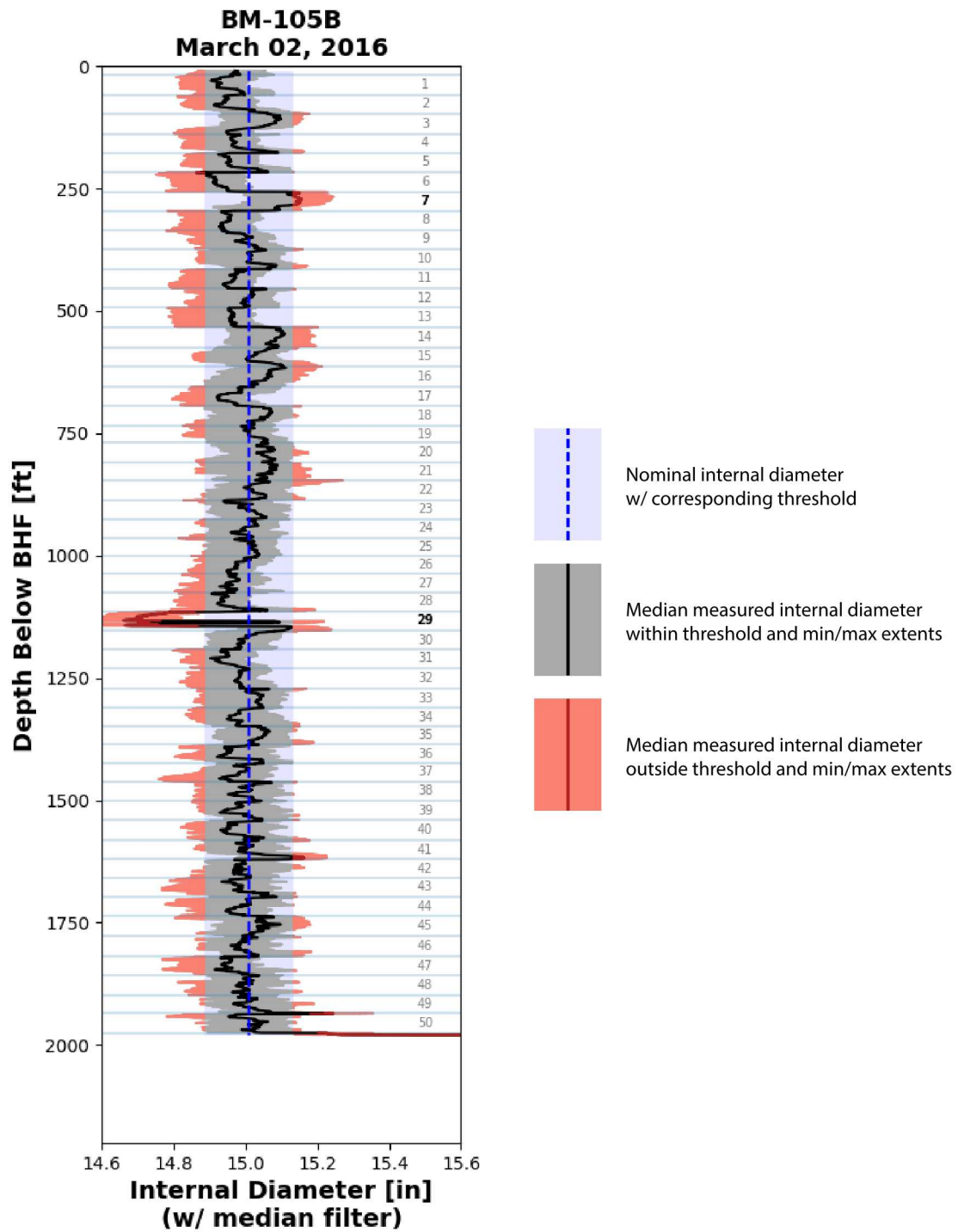


Figure 3.33: Measured internal diameter of BM-105B taken on March 02, 2016. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.20 Bryan Mound 105C

No MAC caliper surveys are currently available.

3.21 Bryan Mound 106A

There is a single survey of 106A and all well casing sections are calculated to be within the as-built tolerance.

Table 3.20: BM-106A Innermost Cemented Casing As-Built Information

Grade		Outside Diameter		Connection Type	
K-55		13 3/8"		ST&C	

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
54.5	0	1673	0.38	12.615	1130
61	1673	1991	0.43	12.515	1540

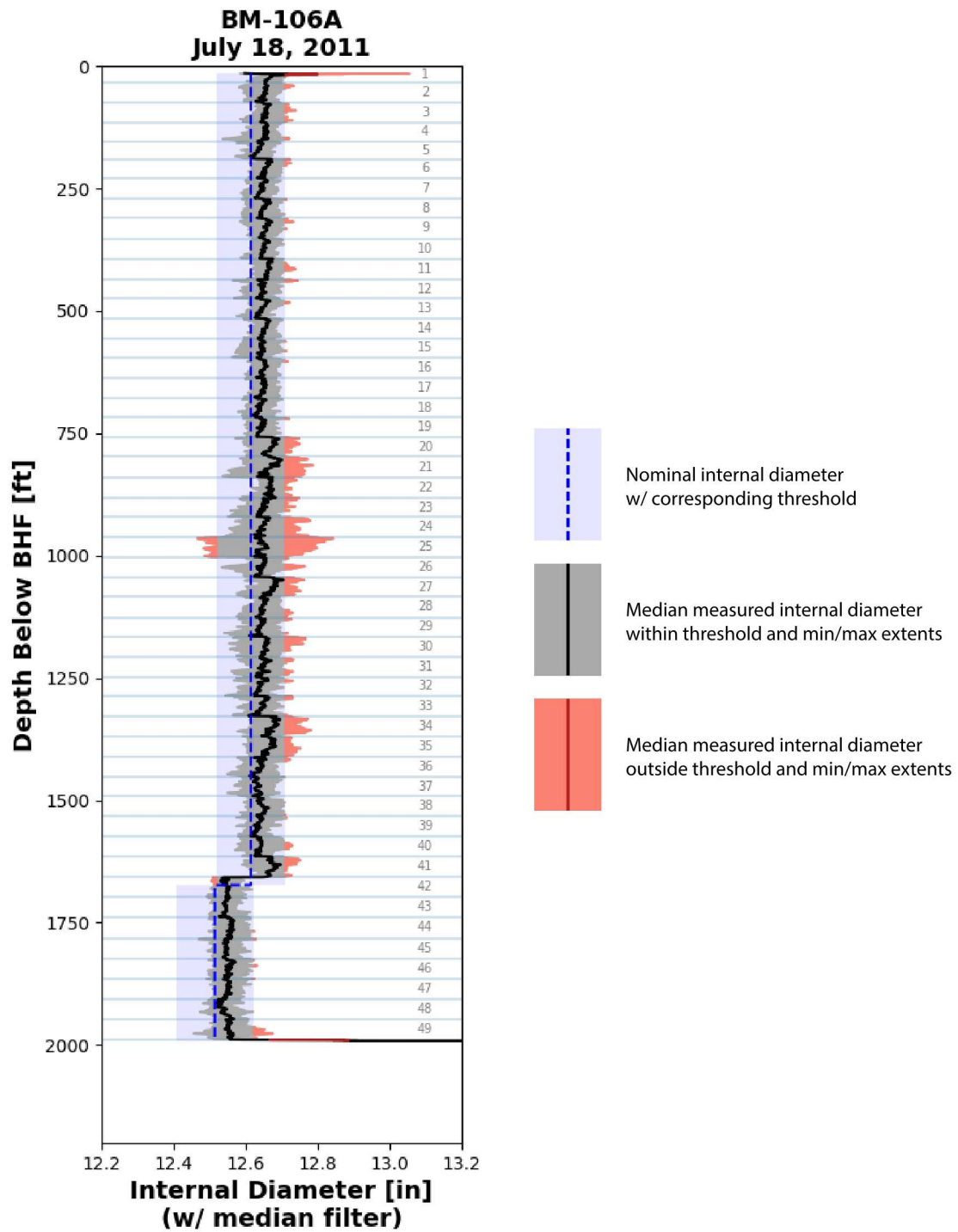


Figure 3.34: Measured internal diameter of BM-106A taken on July 18, 2011. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.22 Bryan Mound 106B

There have been two surveys of Bryan Mound 106B, one before the installation of a liner and another immediately after the liner was installed. Both the innermost casing and the installed liner were calculated to have casing weights matching that of their installed liner.

Table 3.21: BM-106B Innermost Cemented Casing As-Built Information

Grade	Outside Diameter	Connection Type
K-55	13 3/8"	ST&C

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
61	0	2002	0.43	12.515	1540

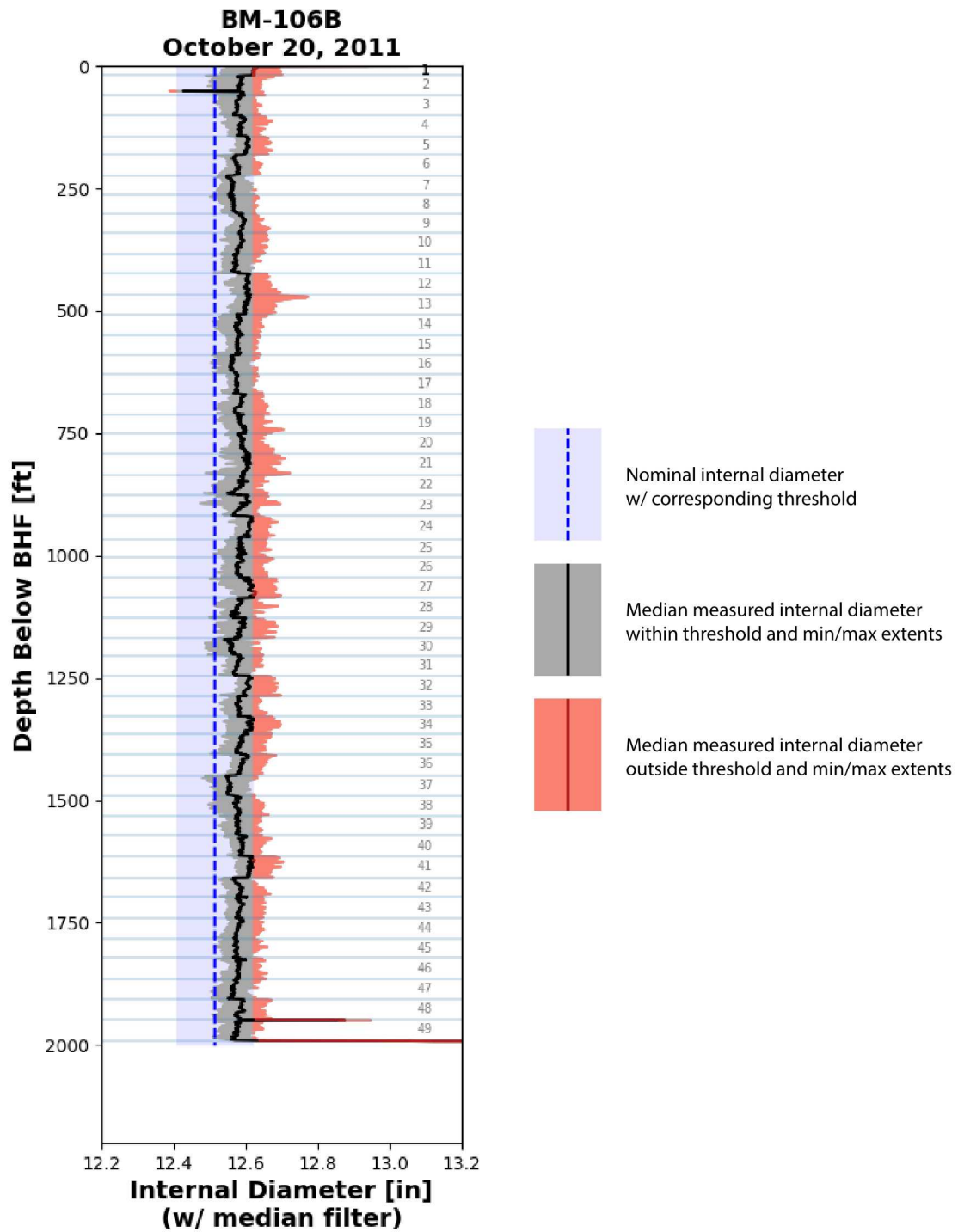


Figure 3.35: Measured internal diameter of BM-106B taken on October 20, 2011. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

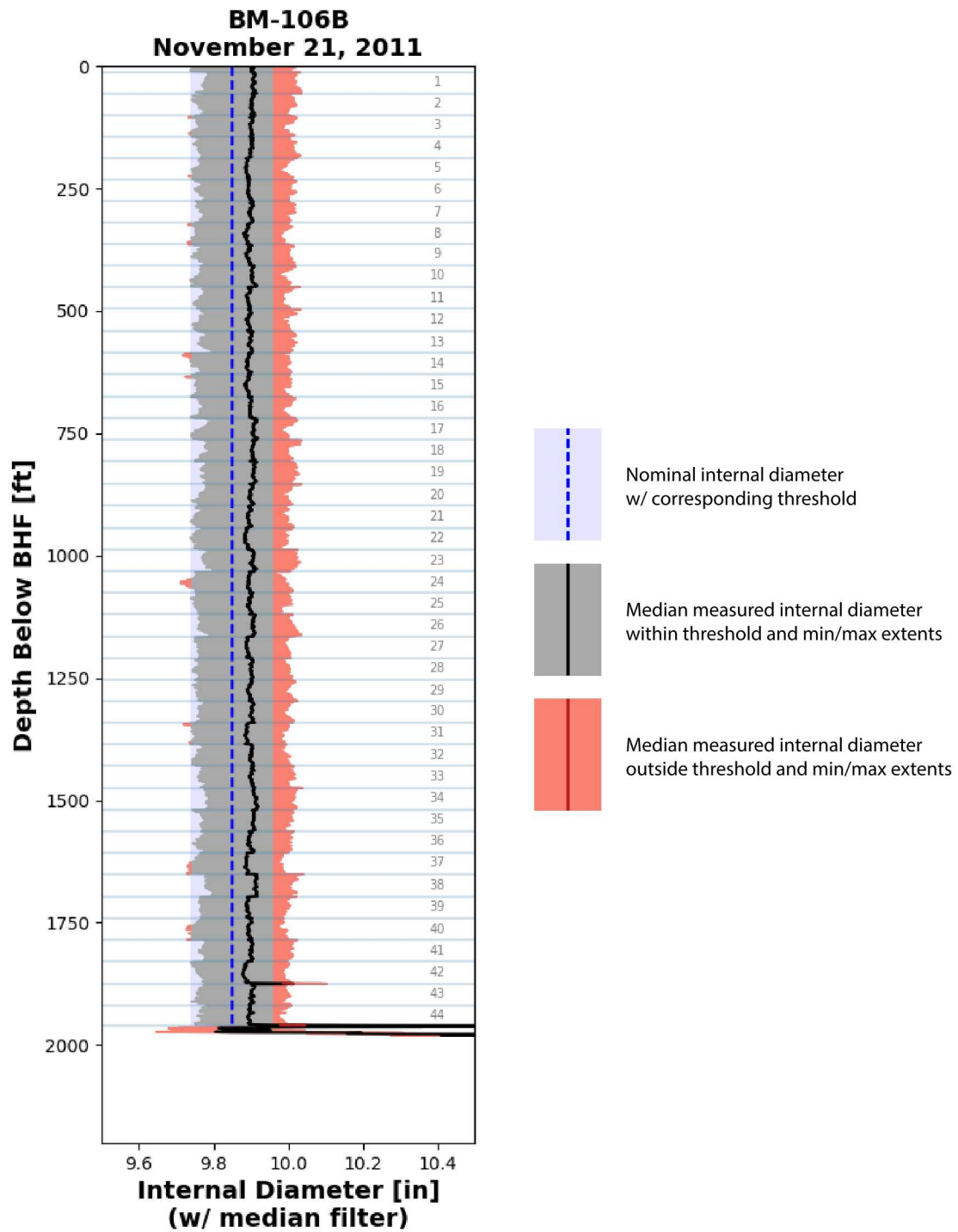


Figure 3.36: Measured internal diameter of BM-106B taken on November 21, 2011. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.23 Bryan Mound 106C

The inner diameter of Bryan Mound 106C has been surveyed three times, once in 2011 and twice in 2017. They all show similar patterns, however, the first survey shows that four sections have a larger inner diameter than expected. The second survey shows a shift showing smaller inner diameters throughout the well, all near the nominal value and within tolerance. The last survey was conducted as a repeat survey several days after the second survey. The most recent survey has two well sections calculated to be out of tolerance. Only section 45 has been calculated out of tolerance on more than one occasion.

Table 3.22: BM-106C Innermost Cemented Casing As-Built Information

Grade		Outside Diameter		Connection Type	
K-55		13 3/8"		ST&C	

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
61	0	1980	0.43	12.515	1540

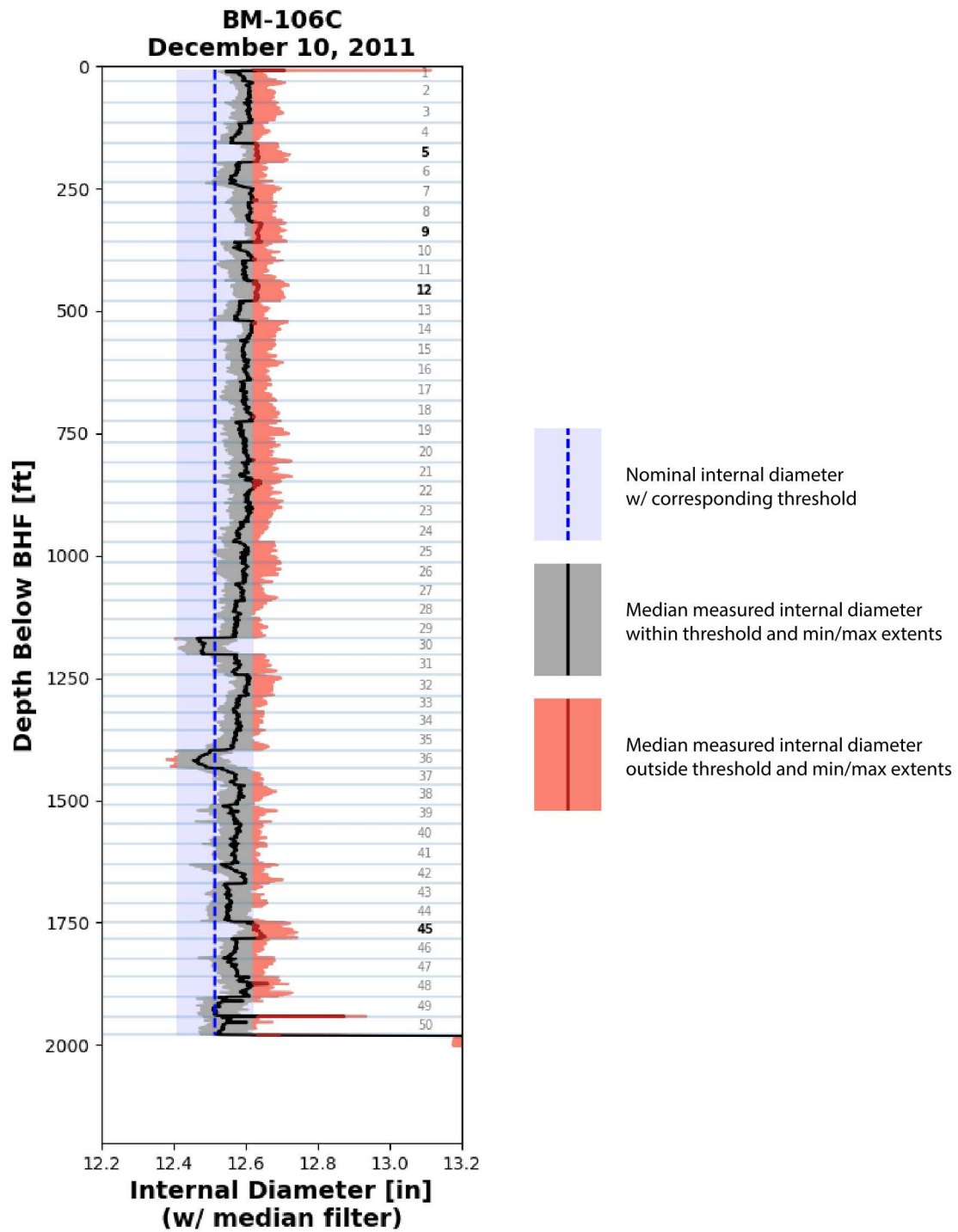


Figure 3.37: Measured internal diameter of BM-106C taken on December 10, 2011. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

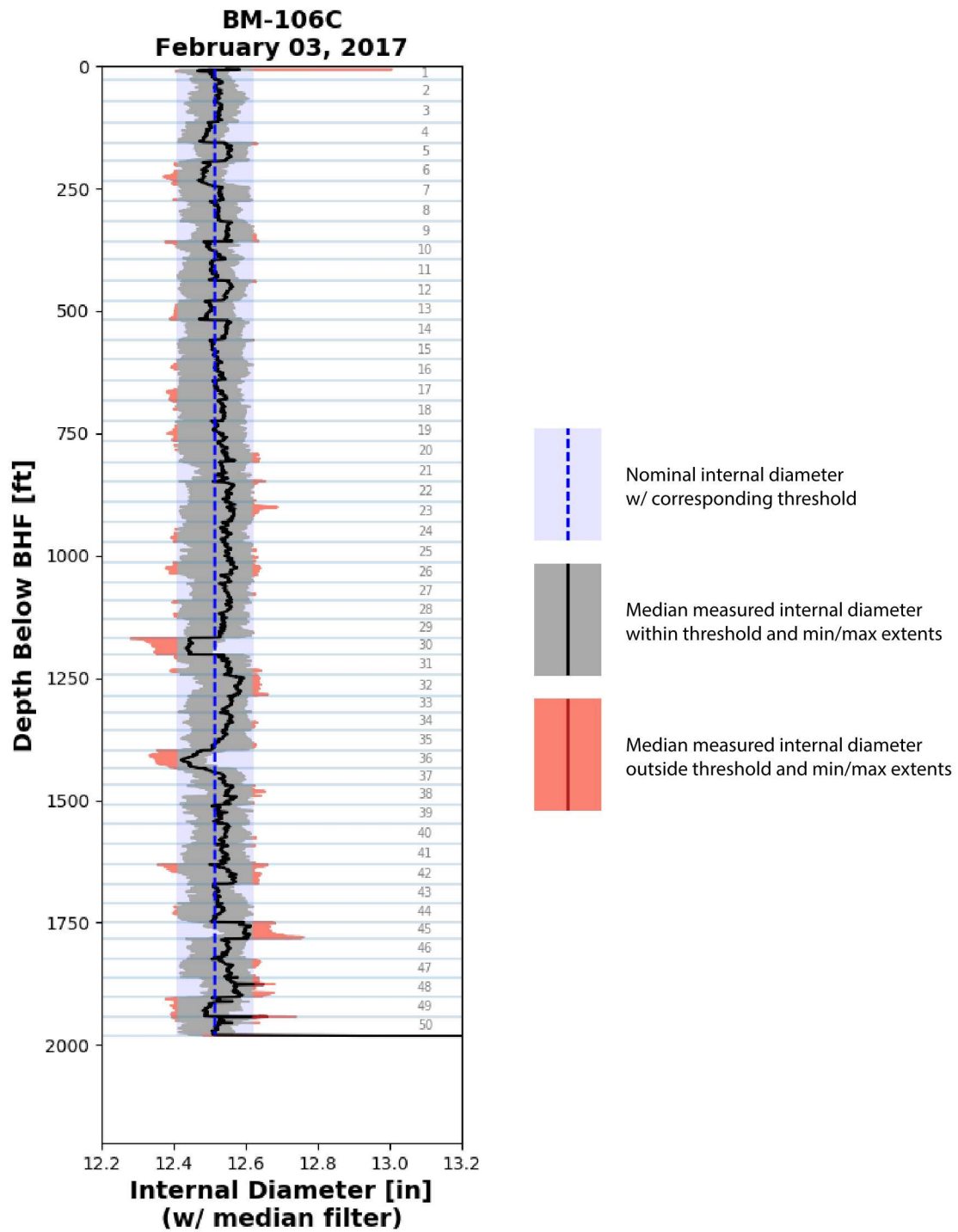


Figure 3.38: Measured internal diameter of BM-106C taken on February 03, 2017. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

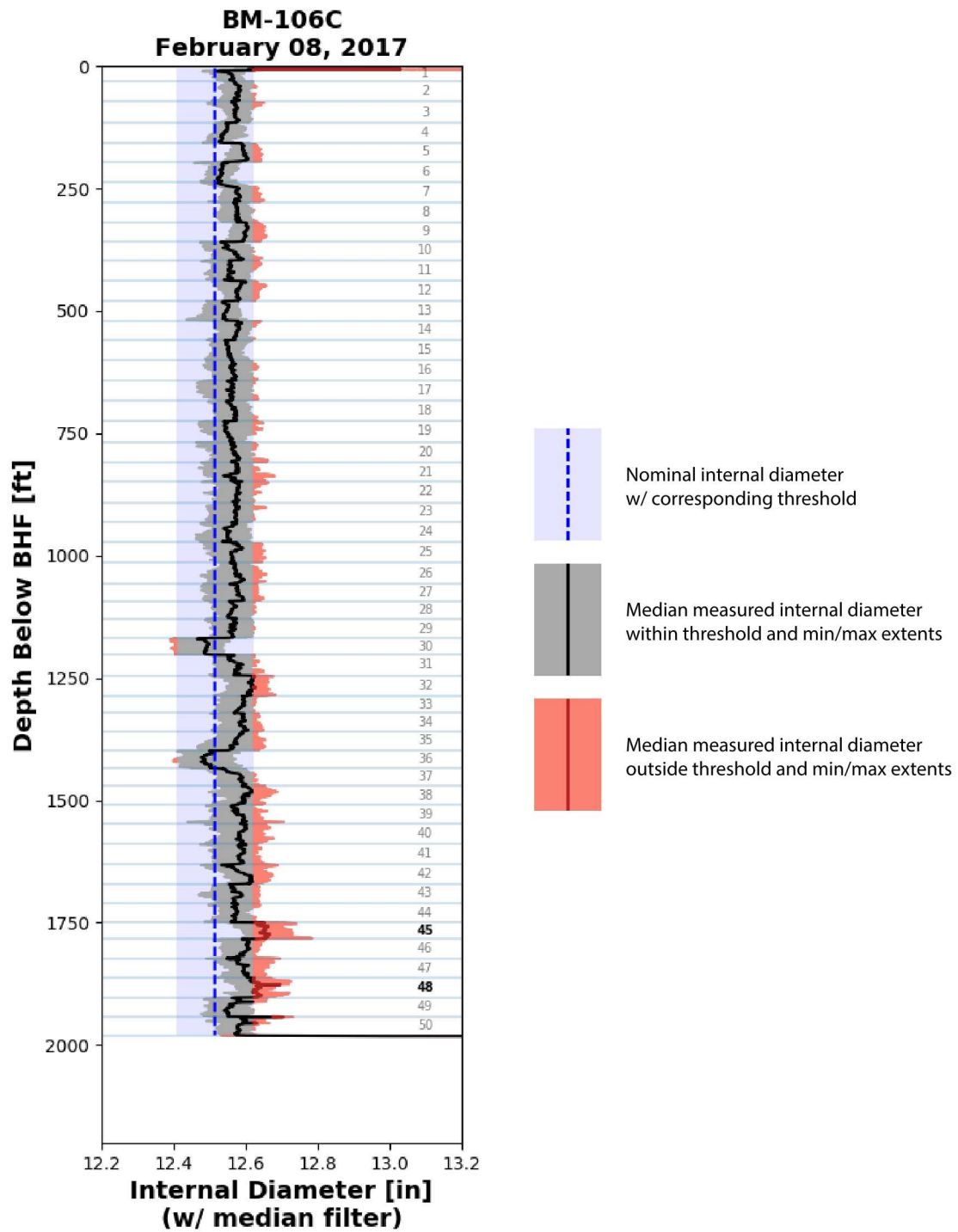


Figure 3.39: Measured internal diameter of BM-106C taken on February 08, 2017. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.24 Bryan Mound 107A

Bryan Mound 107A is another well that has been surveyed three times. All three surveys indicate that the calculated inner diameter is near the edge of the expected tolerance. Two of the surveys show some of the well casings out of tolerance. There is also an anomaly that shows a larger variation in inner diameter in sections 33 and 34. Finally, sections 27, 29, and 34 are the only sections out of tolerance more than once.

Table 3.23: BM-107A Innermost Cemented Casing As-Built Information

Grade	Outside Diameter		Connection Type		
K-55	13 3/8"		ST&C		

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
61	0	2004	0.43	12.515	1540

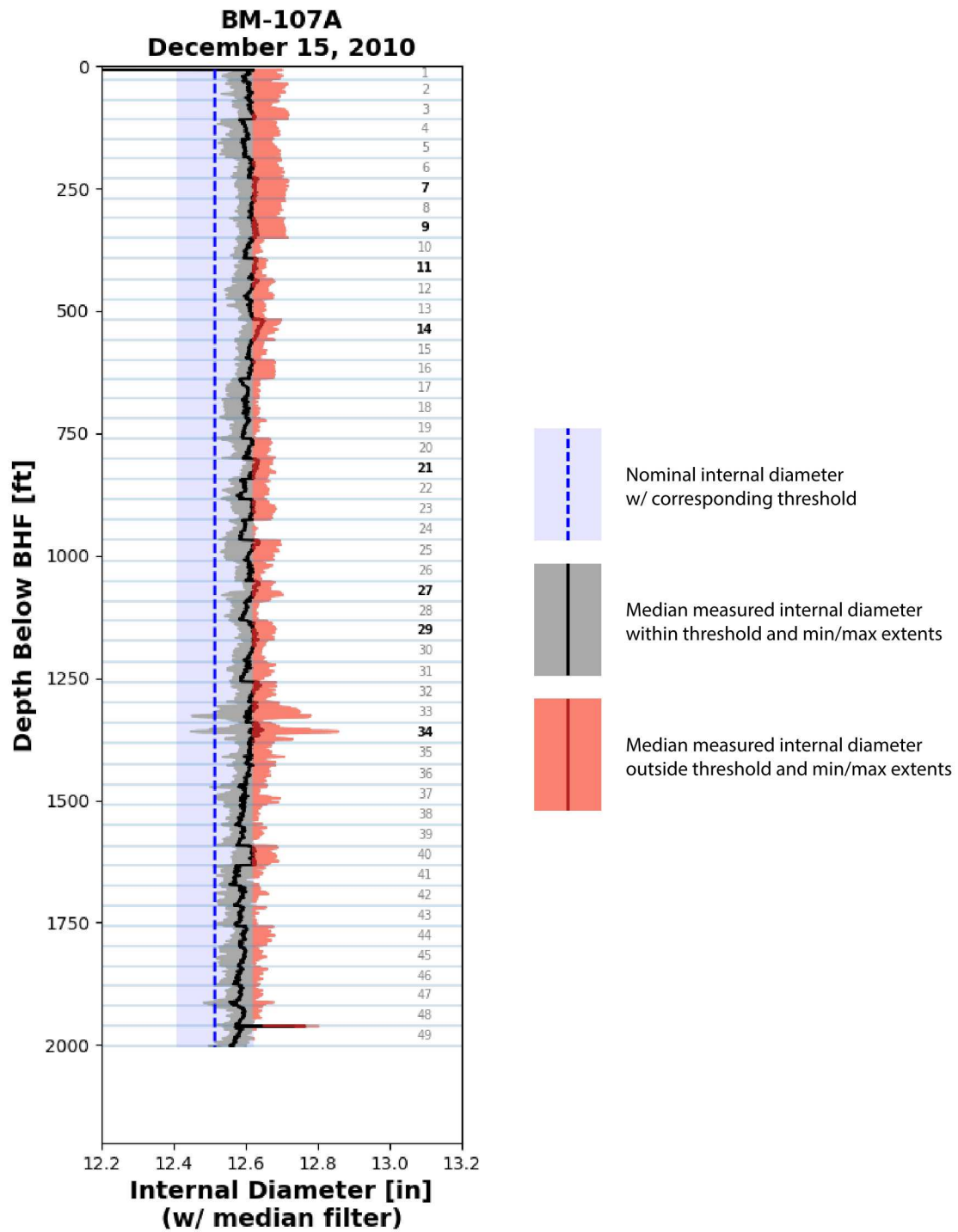


Figure 3.40: Measured internal diameter of BM-107A taken on December 15, 2010. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

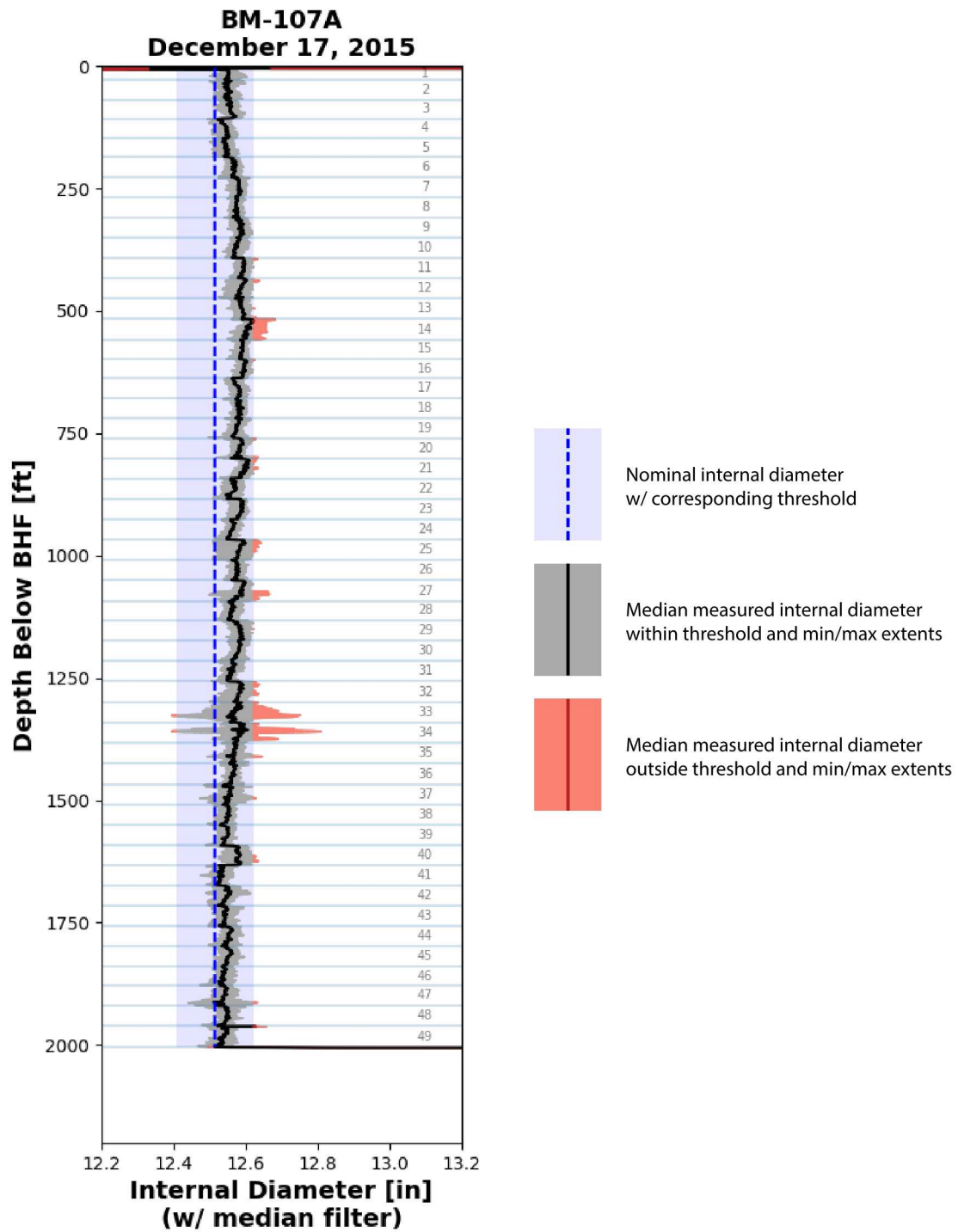


Figure 3.41: Measured internal diameter of BM-107A taken on December 17, 2015. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

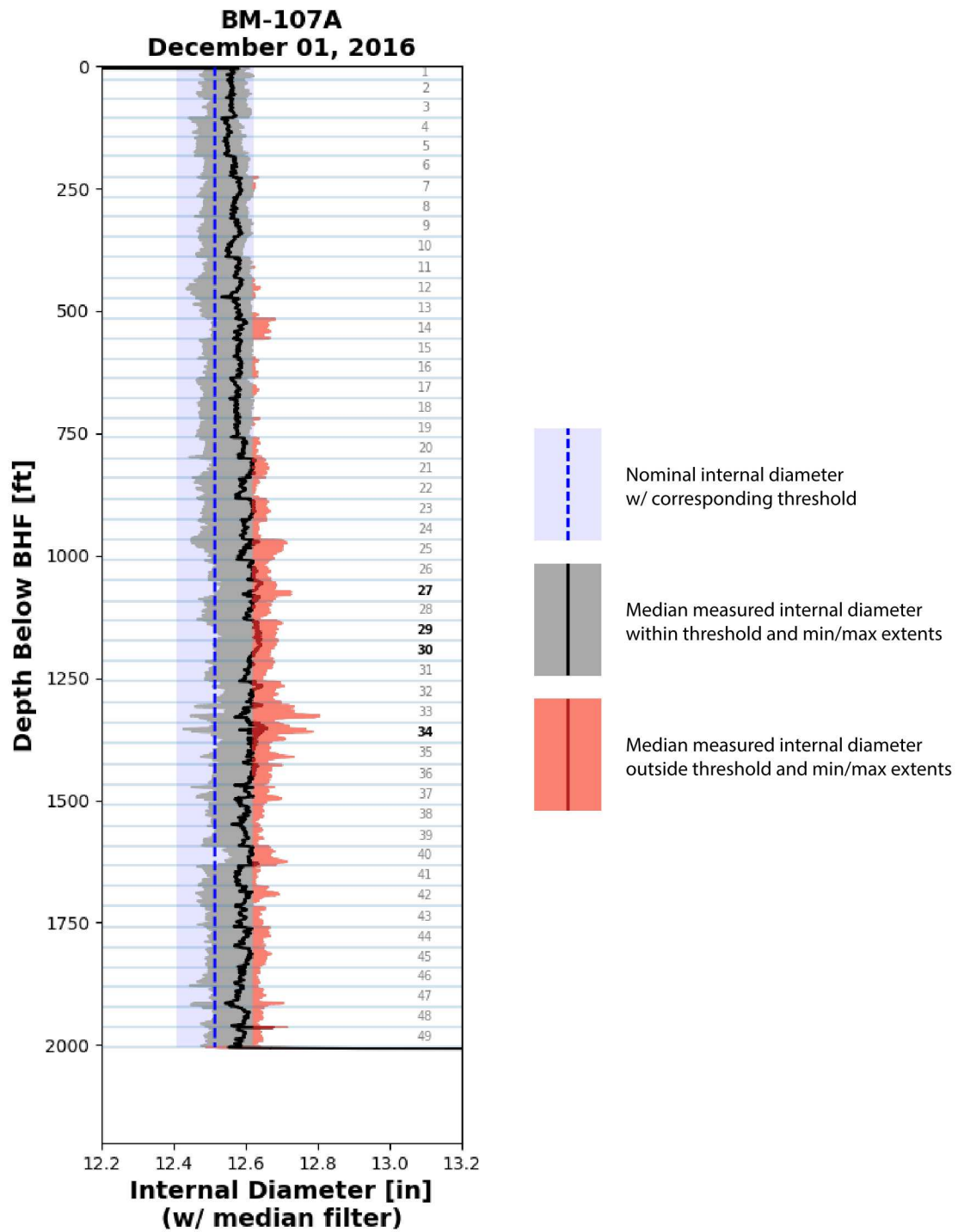


Figure 3.42: Measured internal diameter of BM-107A taken on December 01, 2016. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.25 Bryan Mound 107B

Bryan Mound 107B was surveyed in 2015 and shows that all well sections are within the specified tolerance.

Table 3.24: BM-107B Innermost Cemented Casing As-Built Information

Grade	Outside Diameter		Connection Type		
K-55	13 3/8"		ST&C		

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
61	0	2009	0.43	12.515	1540

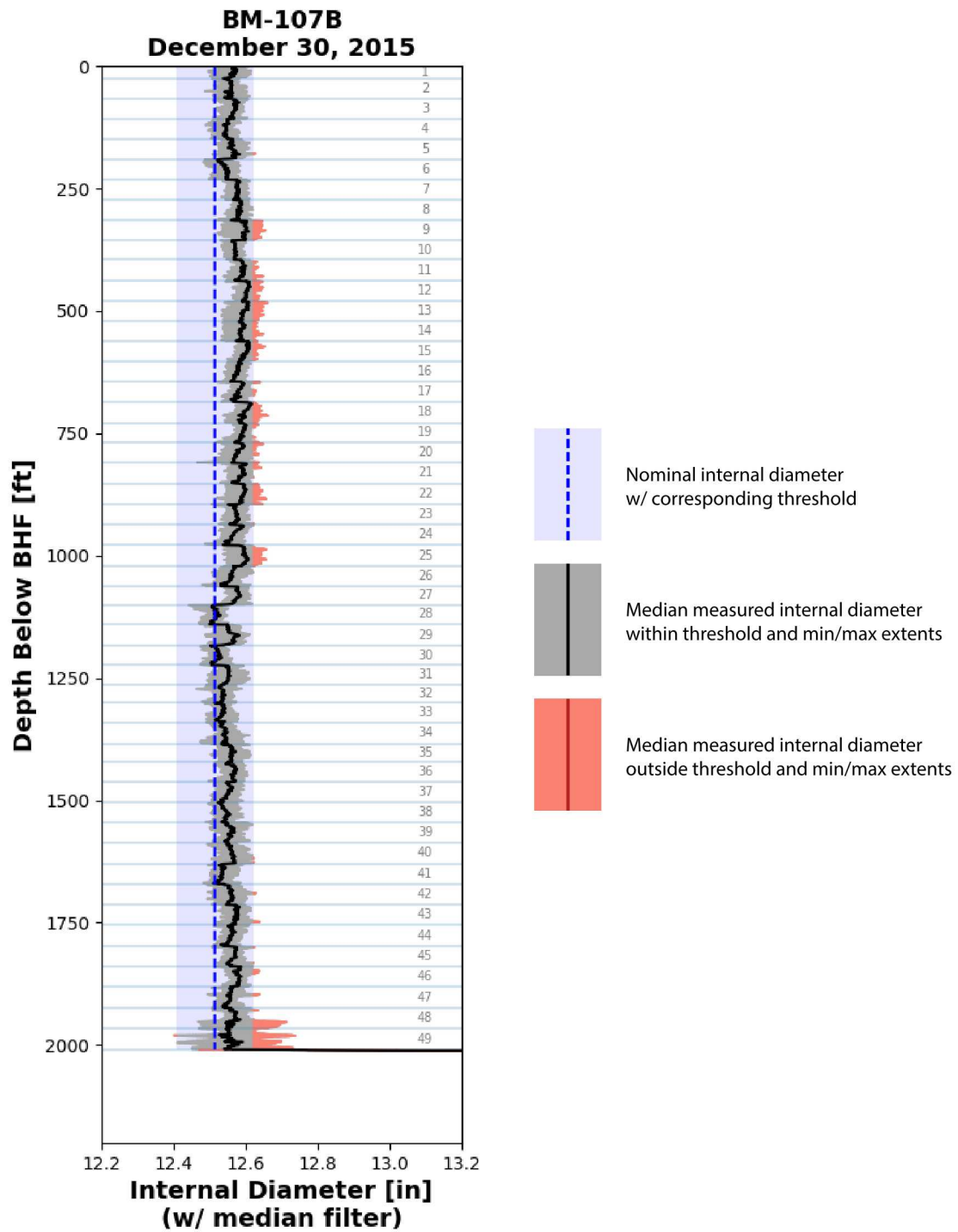


Figure 3.43: Measured internal diameter of BM-107B taken on December 30, 2015. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.26 Bryan Mound 107C

Most of the calculated casing weights are within tolerance, however, sections 39 and 42 both have calculated inner diameters larger than the tolerance allows. They are calculated to be closer to a 48 #/ft. casing than the 61 #/ft. casing specified in the as-built drawings.

Table 3.25: BM-107C Innermost Cemented Casing As-Built Information

Grade	Outside Diameter	Connection Type
K-55	13 3/8"	ST&C

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
61	0	1992	0.43	12.515	1540

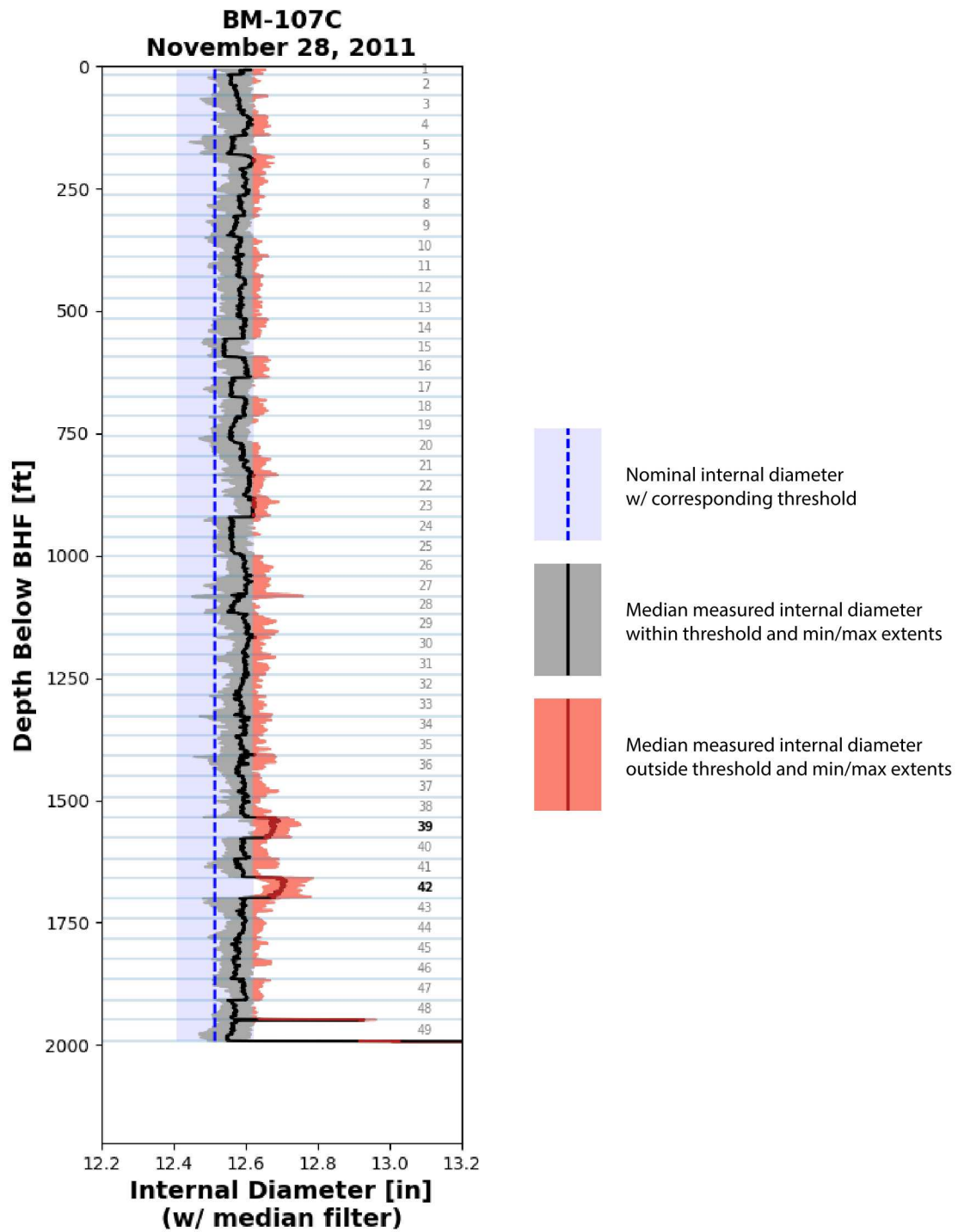


Figure 3.44: Measured internal diameter of BM-107C taken on November 28, 2011. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

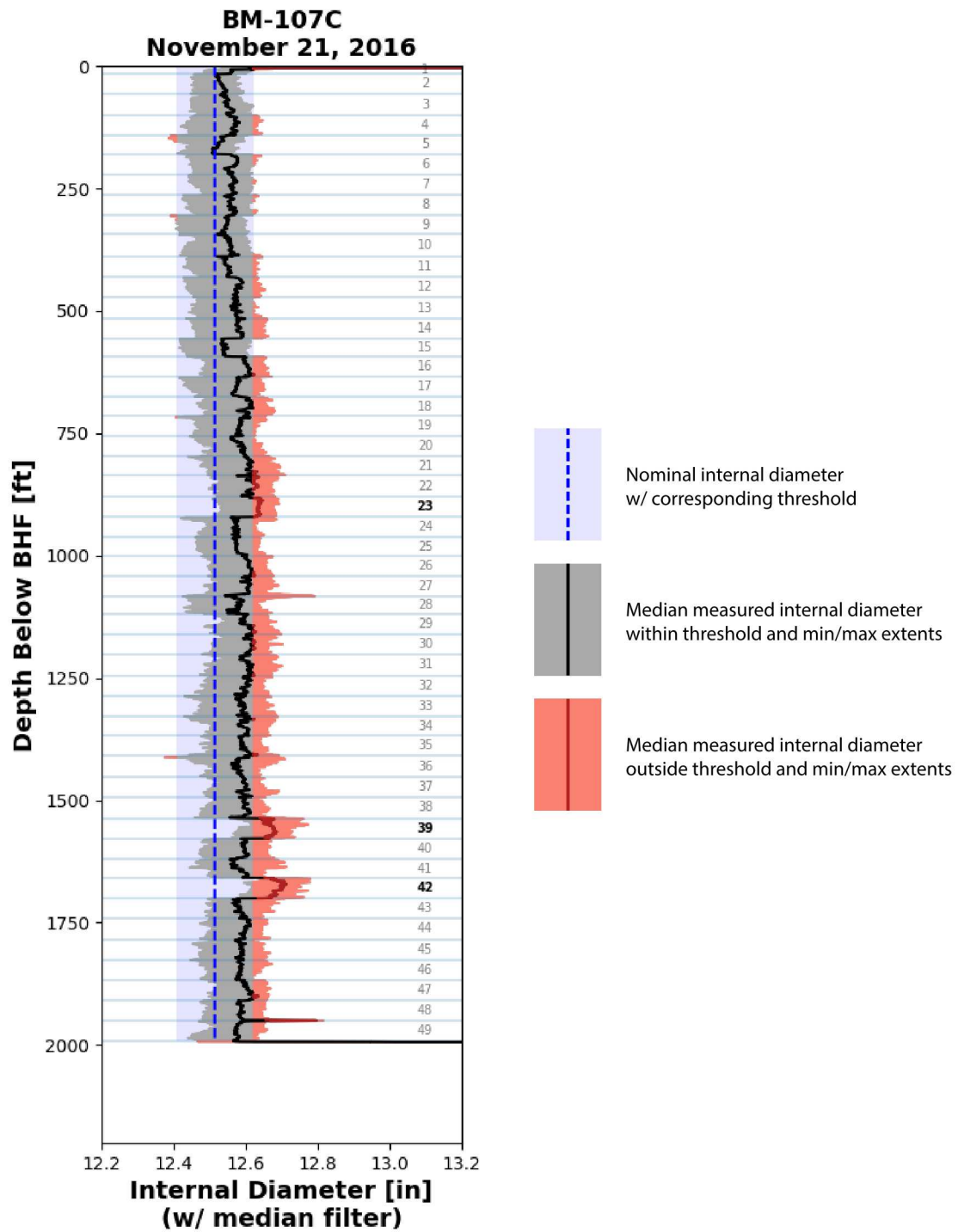


Figure 3.45: Measured internal diameter of BM-107C taken on November 21, 2016. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.27 Bryan Mound 108A

The 2010 survey of BM-108A shows all well casings are near the nominal value and within tolerance.

Table 3.26: BM-108A Innermost Cemented Casing As-Built Information

Grade		Outside Diameter		Connection Type	
K-55		13 3/8"		ST&C	

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
61	0	2036	0.43	12.515	1540

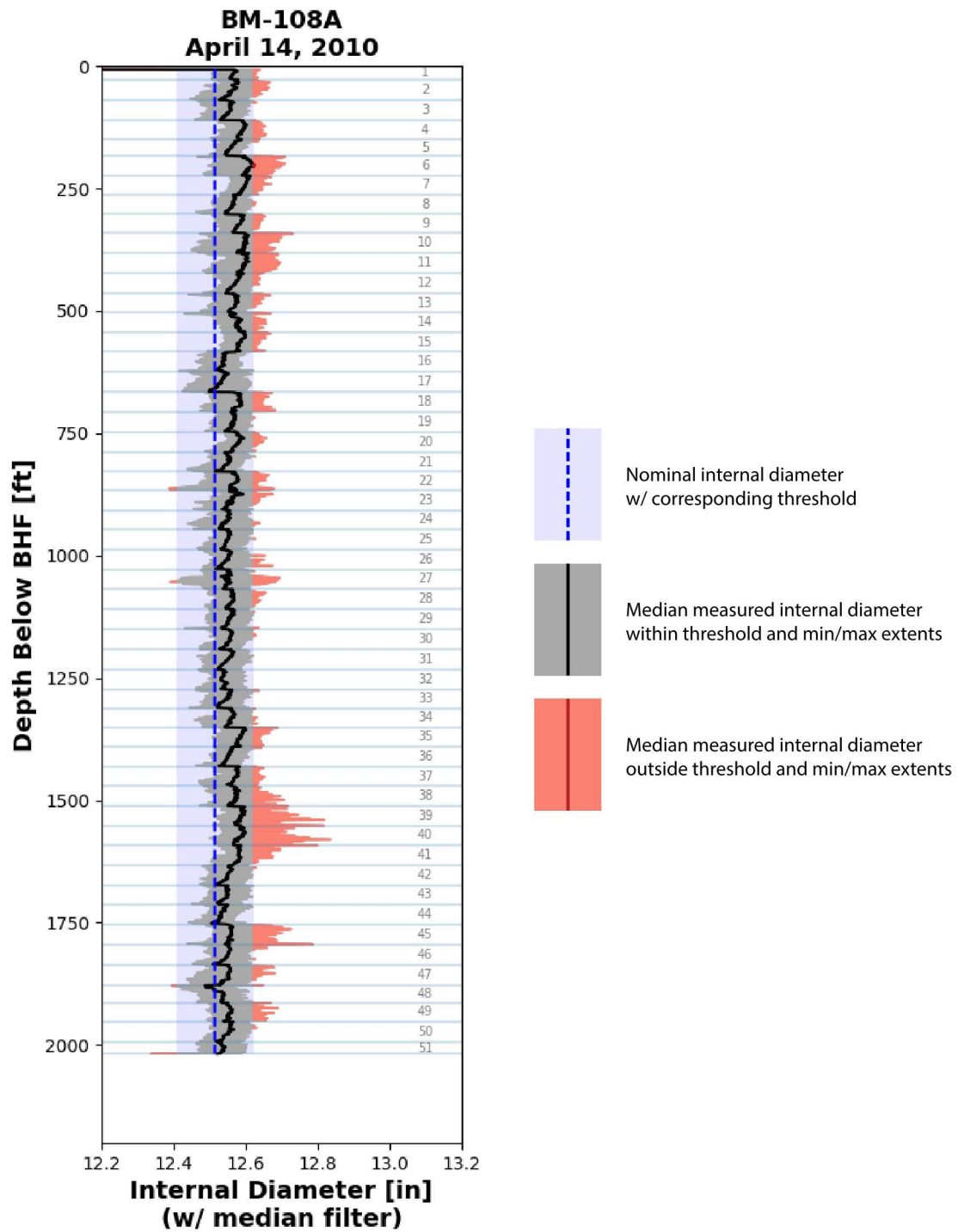


Figure 3.46: Measured internal diameter of BM-108A taken on April 14, 2010. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.28 Bryan Mound 108B

All sections are calculated to be the casing weight specified in the as-build drawings.

Table 3.27: BM-108B Innermost Cemented Casing As-Built Information

Grade		Outside Diameter		Connection Type	
K-55		13 3/8"		ST&C	

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
61	0	1980	0.43	12.515	1540

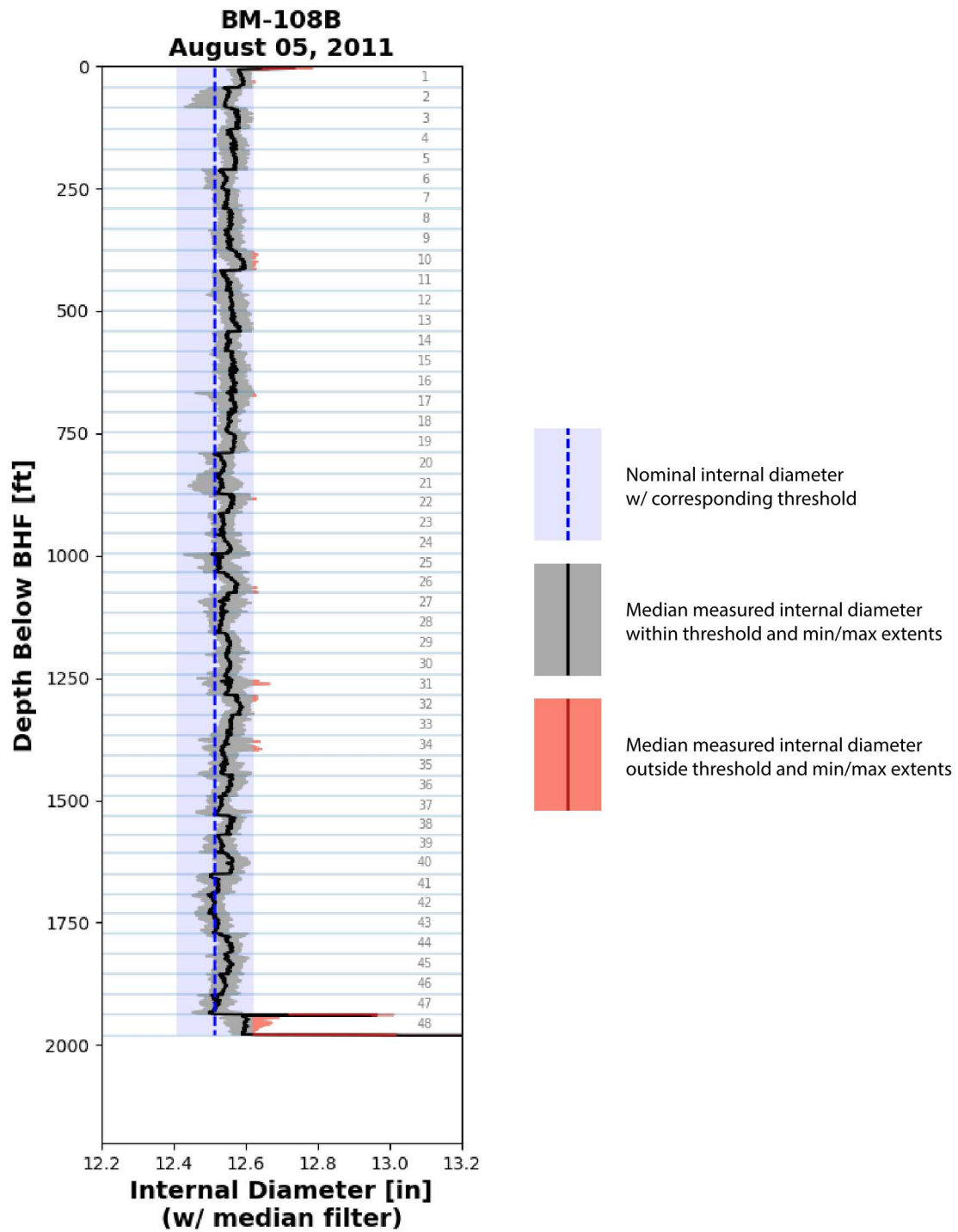


Figure 3.47: Measured internal diameter of BM-108B taken on August 05, 2011. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.29 Bryan Mound 108C

There was a single survey taken of Bryan Mound 108C's liner. The survey indicates there are seven sections calculated to be out of tolerance. All of those sections have smaller inner diameters than expected. They are calculated to be 43.5 #/ft. with one section closest to 47 #/ft. For additional information please refer to Table A.29 in Appendix A.

It also should be mentioned that the as-built drawings show the deeper sections are 36 #/ft, however, most of the sections look to be the same 40 #/ft. This would suggest that information in the as-built drawings need to be updated.

Table 3.28: BM-108C Innermost Cemented Casing As-Built Information

Grade	Outside Diameter		Connection Type		
K-55	9 5/8"		ST&C		

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
40	0	1469	0.395	8.835	2570
36	1469	2044	0.352	8.921	2020

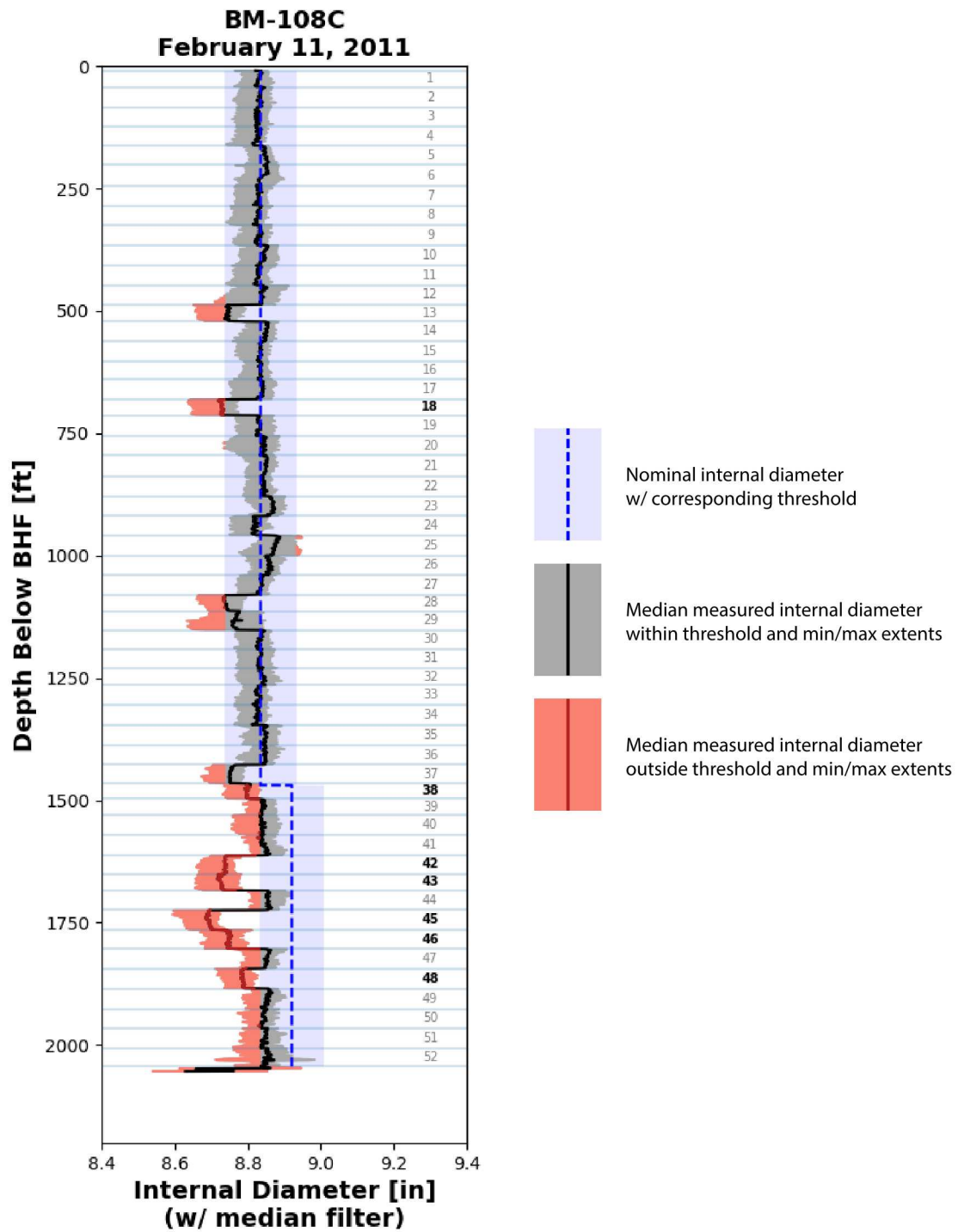


Figure 3.48: Measured internal diameter of BM-108C taken on February 02, 2011. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.30 Bryan Mound 109A

There have been two surveys of Bryan Mound 109A's innermost cemented casing. Both surveys show all sections within the as-built tolerance.

Table 3.29: BM-109A Innermost Cemented Casing As-Built Information

Grade	Outside Diameter		Connection Type		
K-55	13 3/8"		ST&C		

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
61	0	1970	0.43	12.515	1540

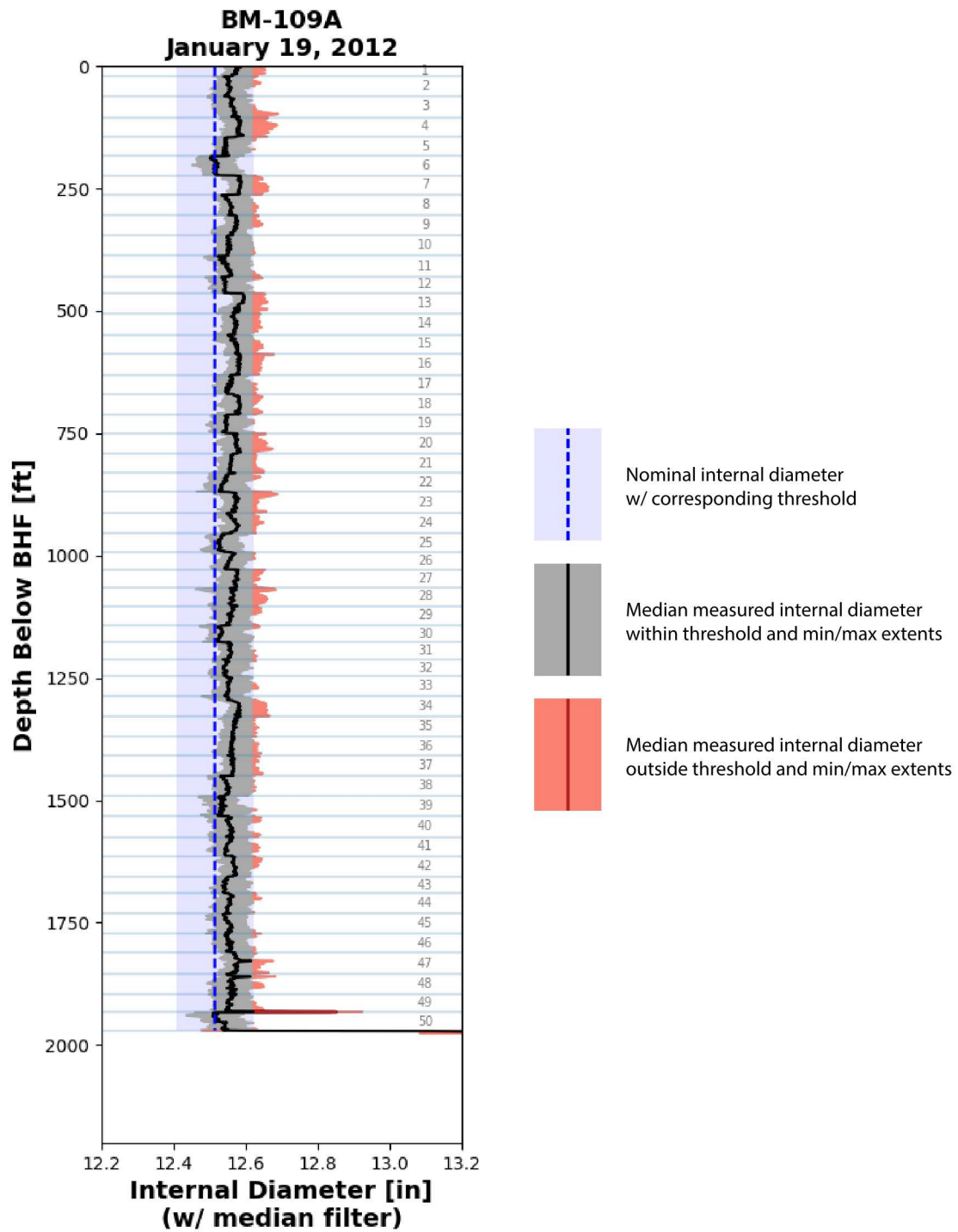


Figure 3.49: Measured internal diameter of BM-109A taken on January 19, 2012. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

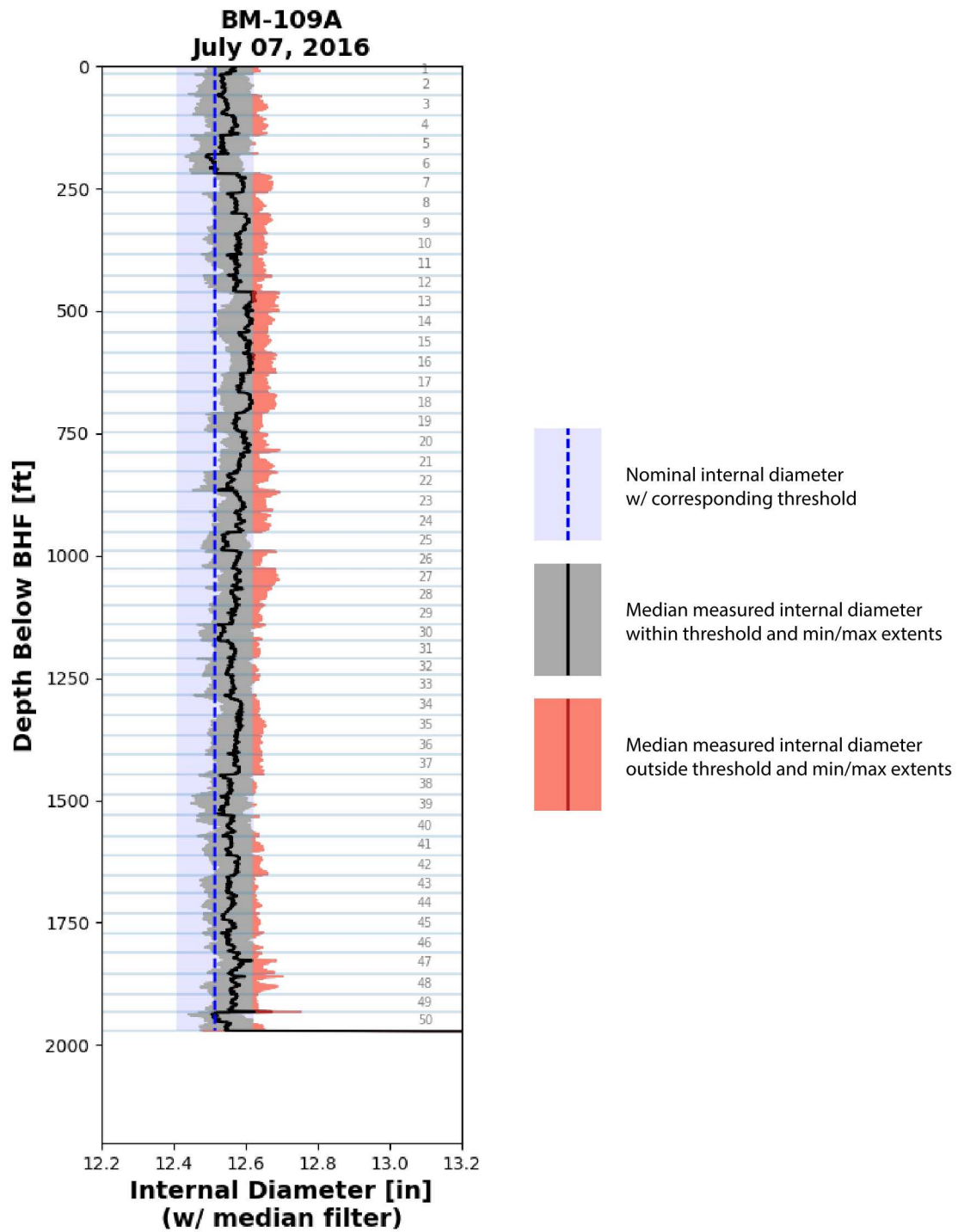


Figure 3.50: Measured internal diameter of BM-109A taken on July 07, 2016. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.31 Bryan Mound 109B

Bryan Mound 109B has been surveyed twice. Both surveys show a larger inner diameter than the as-built drawings indicate. While the first survey shows only 29% of well sections larger than expected, all of the sections are near the edge of acceptable tolerance. The second survey shows all but one of the sections are out of tolerance. It is likely that the innermost cemented casings are, effectively, a lighter weight than the as-built drawings indicate.

Table 3.30: BM-109B Innermost Cemented Casing As-Built Information

Grade		Outside Diameter		Connection Type	
K-55		13 3/8"		ST&C	

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
61	0	1975	0.43	12.515	1540

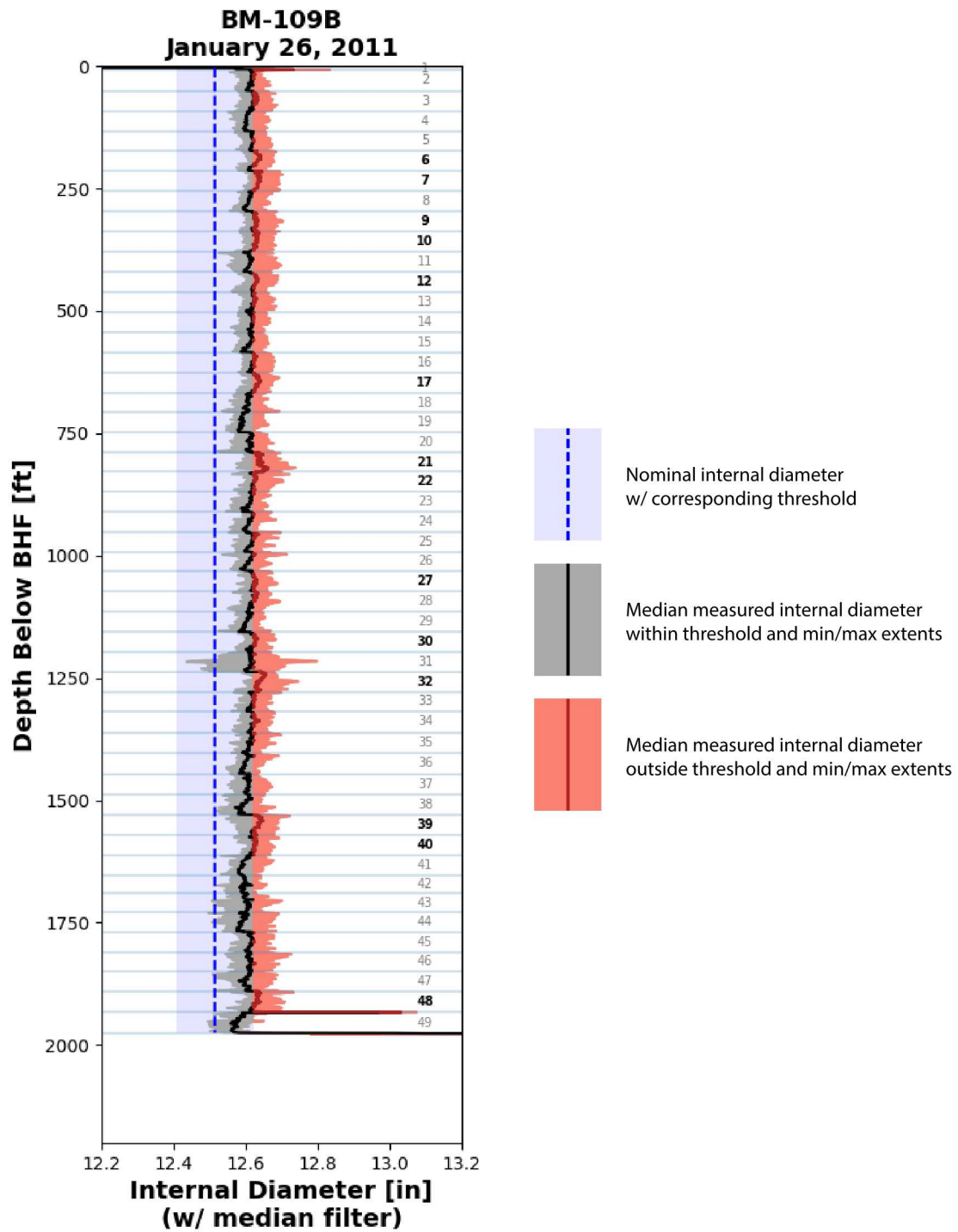


Figure 3.51: Measured internal diameter of BM-109B taken on January 26, 2011. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

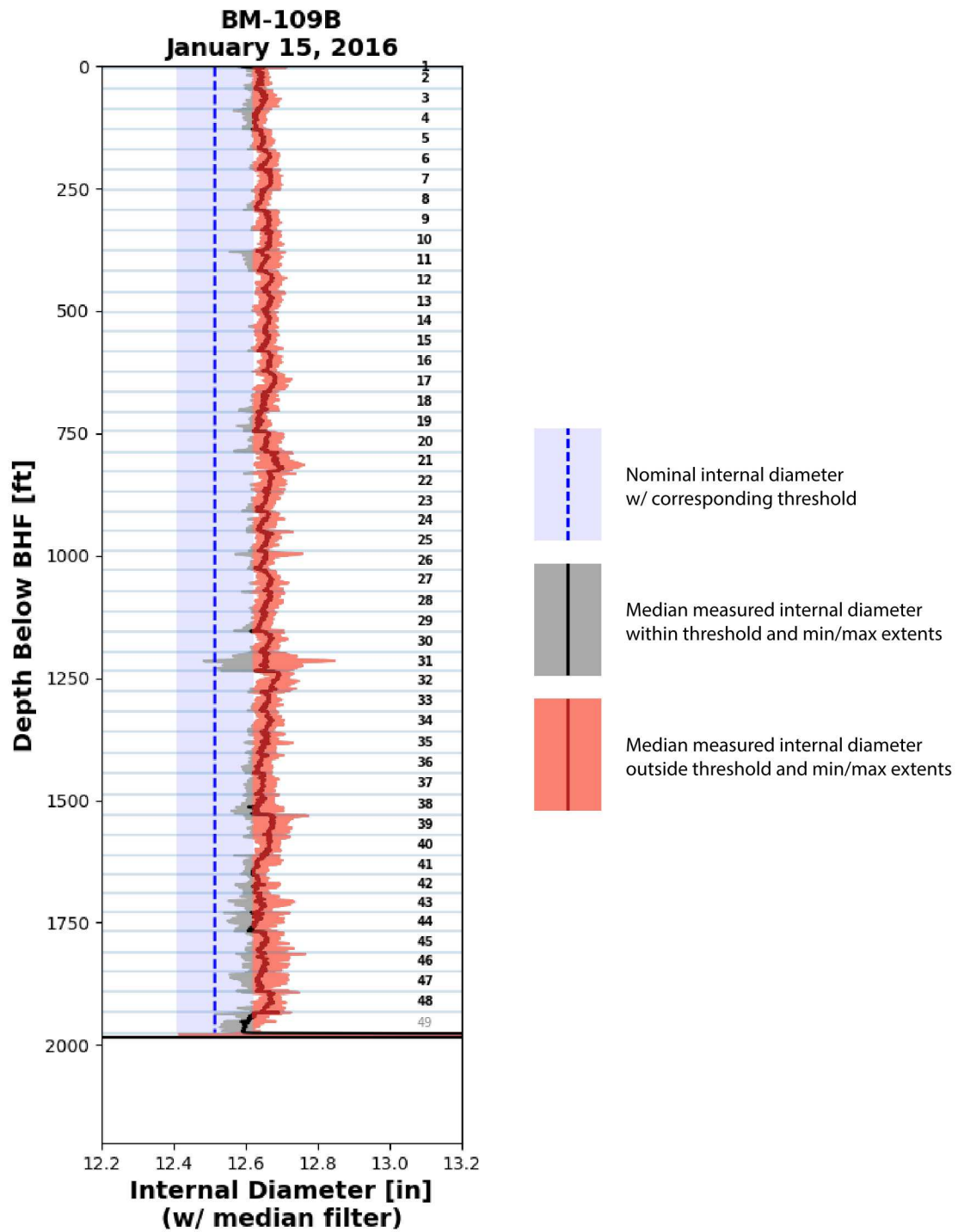


Figure 3.52: Measured internal diameter of BM-109B taken on January 15, 2016. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.32 Bryan Mound 109C

Figure 3.53 shows the only survey taken of BM-109C. While the readings look noisier than most other wells, all of the well sections are calculated to be the nominal casing weight.

Table 3.31: BM-109C Innermost Cemented Casing As-Built Information

Grade	Outside Diameter		Connection Type		
K-55	13 3/8"		ST&C		

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
61	0	1991	0.43	12.515	1540

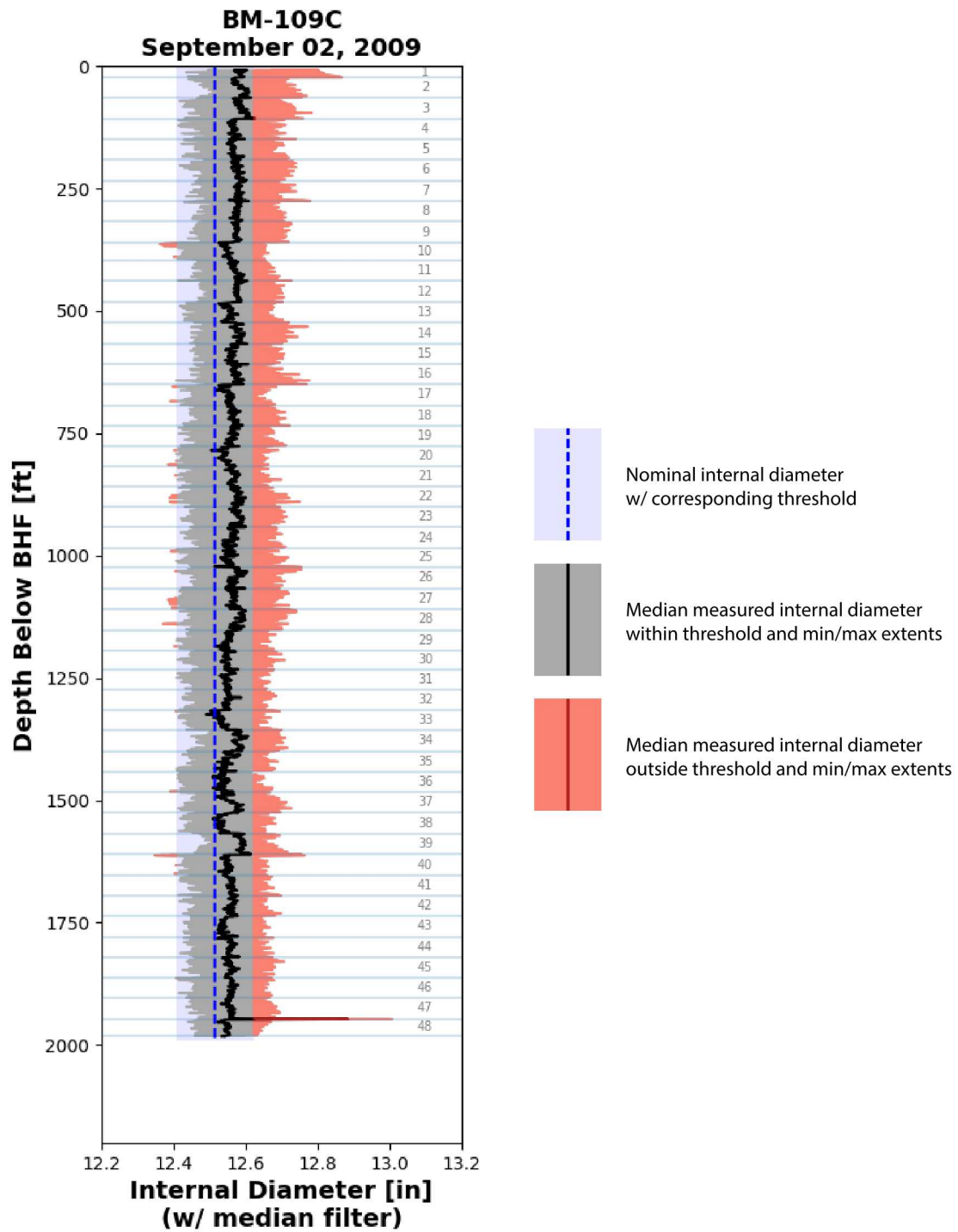


Figure 3.53: Measured internal diameter of BM-109C taken on September 02, 2009. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.33 Bryan Mound 110A

Two surveys were available at the time of writing, one in 2011 and the other in 2016. Both surveys show consistent inner diameter patterns and show that the inner diameter is near the extent of the acceptable tolerance specified in the as-built drawings. The first survey, presented in Figure 3.54, shows approximately half of the sections outside of the given parameters. The second survey, shown in Figure 3.55, shows four of the sections out of tolerance. It is difficult to determine which well sections are incorrect as they are all near the extent of the tolerance.

Table 3.32: BM-110A Innermost Cemented Casing As-Built Information

Grade		Outside Diameter		Connection Type	
K-55		13 3/8"		ST&C	

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
54.5	0	1661	0.38	12.615	1130
61	1661	1998	0.43	12.515	1540

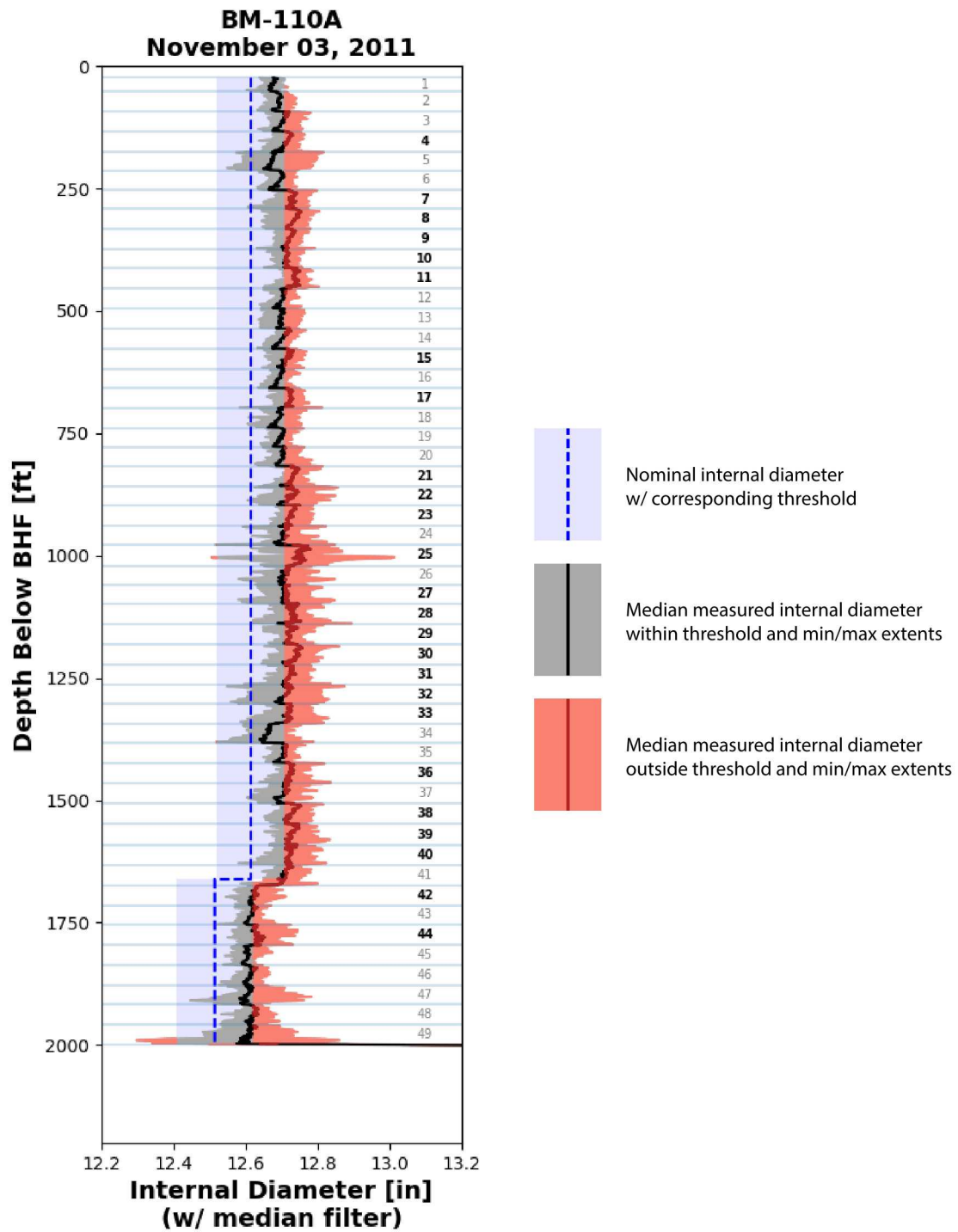


Figure 3.54: Measured internal diameter of BM-110A taken on November 03, 2011. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

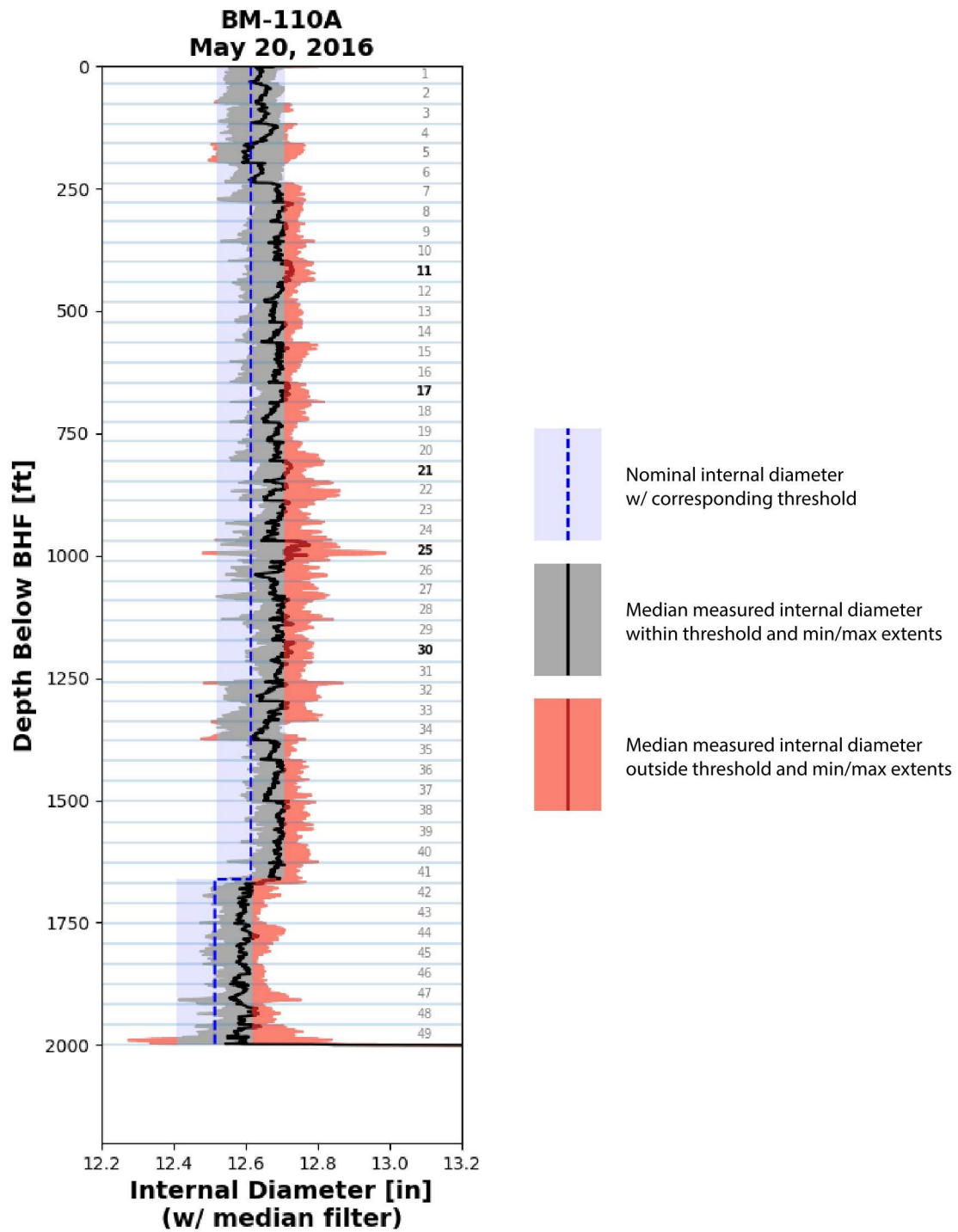


Figure 3.55: Measured internal diameter of BM-110A taken on May 20, 2016. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.34 Bryan Mound 110B

Both surveys of BM-110B show the inner diameter is within the given tolerance, therefore all sections are calculated to be the 54.5 #/ft. and 61 #/ft. casings specified in the as-built drawings.

It should be mentioned that the as-built drawing indicates the innermost cemented casing is both 16" and 13 3/8". Measurements suggest the true outer diameter is 13 3/8".

Table 3.33: BM-110B Innermost Cemented Casing As-Built Information

Grade		Outside Diameter		Connection Type	
K-55		13 3/8"		ST&C	

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
54.5	0	1713	0.38	12.615	1130
61	1713	1988	0.43	12.515	1540

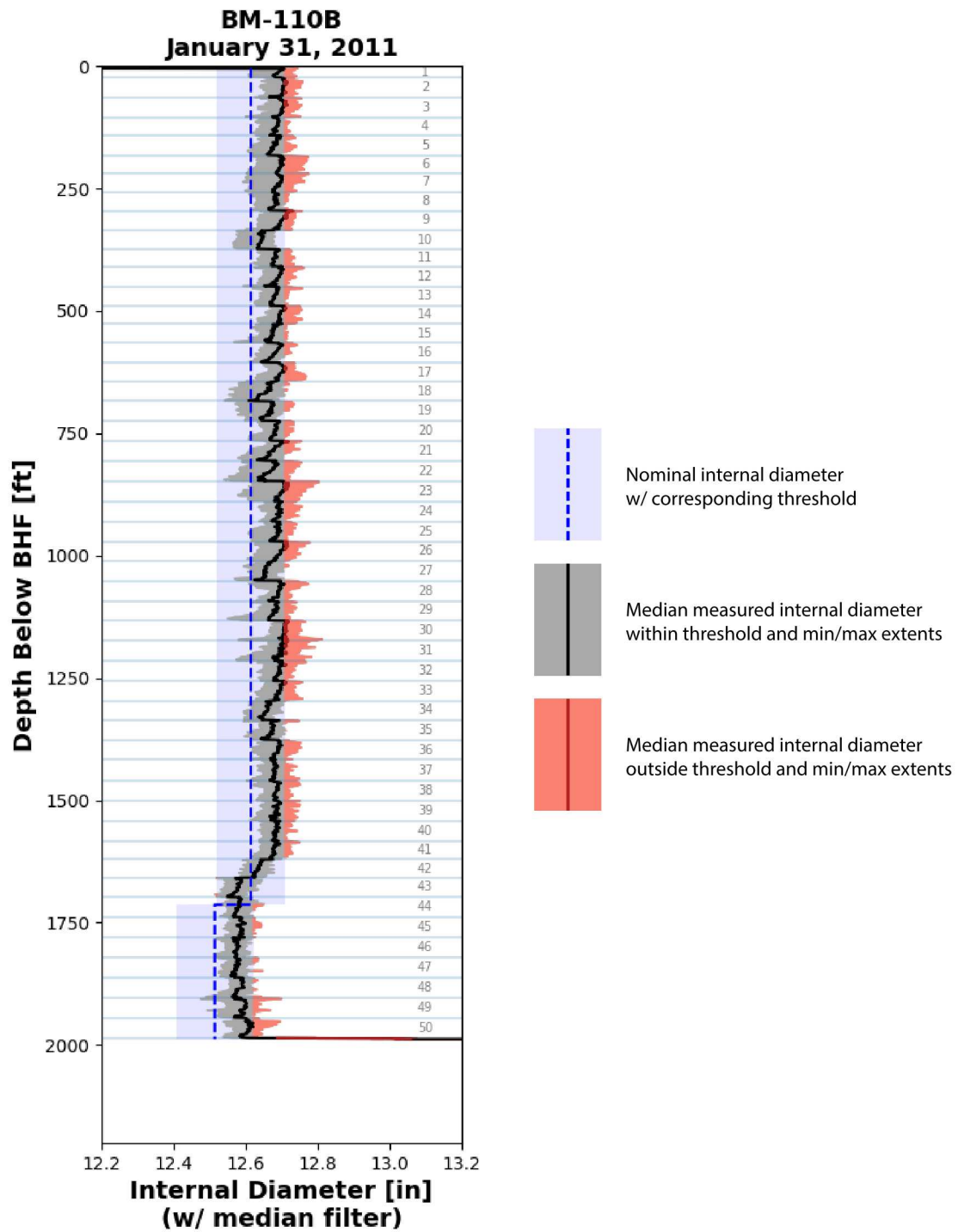


Figure 3.56: Measured internal diameter of BM-110B taken on January 31, 2011. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

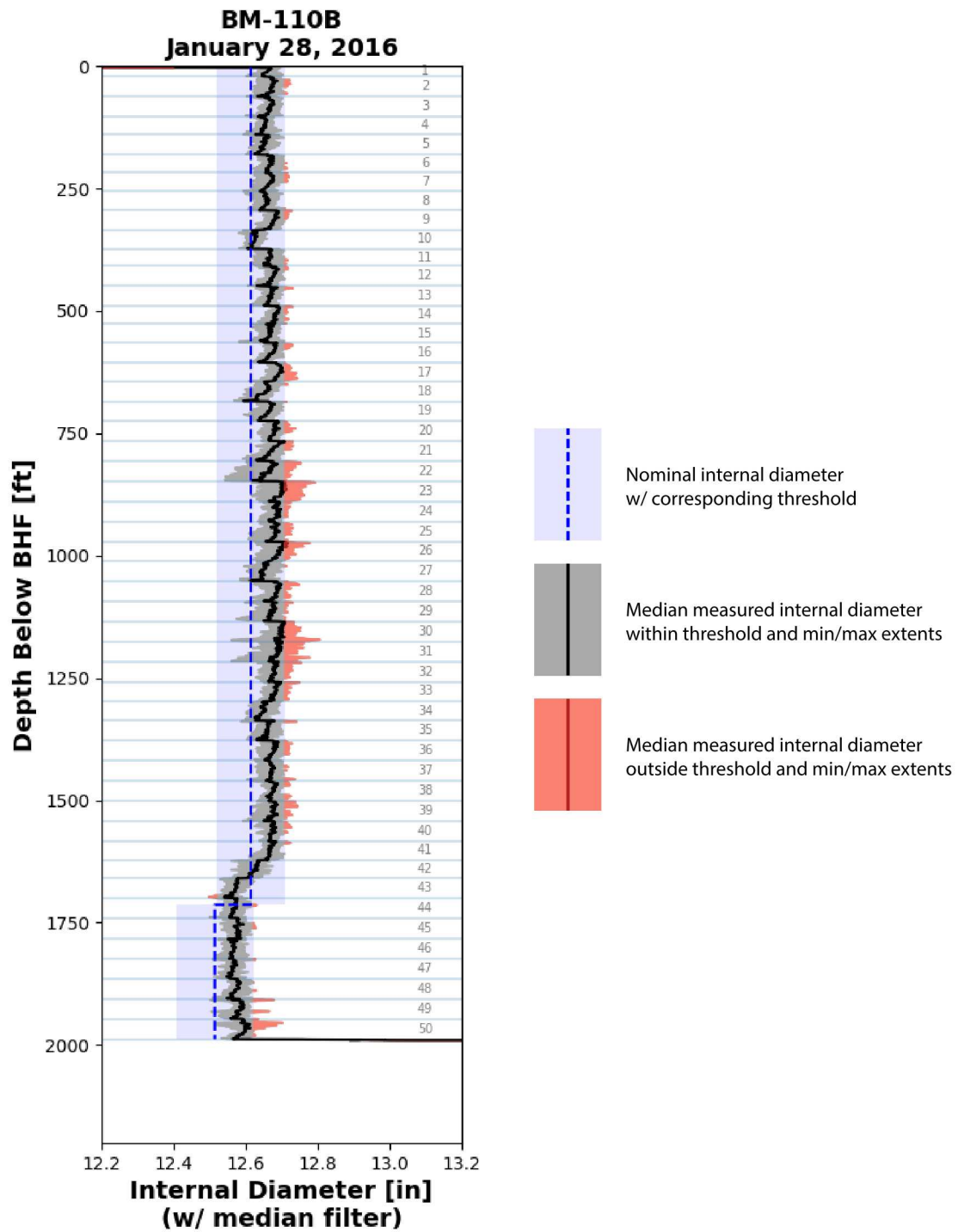


Figure 3.57: Measured internal diameter of BM-110B taken on January 28, 2016. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.35 Bryan Mound 110C

There have been two surveys of Bryan Mound 110C, one in 2009 and another in 2014. Both surveys indicate most well sections are the correct weight specified in the as-built drawings. The only exception is section 14 in the 2014 survey (shown in Figure 3.59). This section is calculated to have a larger inner diameter and have a weight of 54.5 #/ft.

Table 3.34: BM-110C Innermost Cemented Casing As-Built Information

Grade	Outside Diameter		Connection Type		
K-55	13 3/8"		ST&C		

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
61	0	1997	0.43	12.515	1540

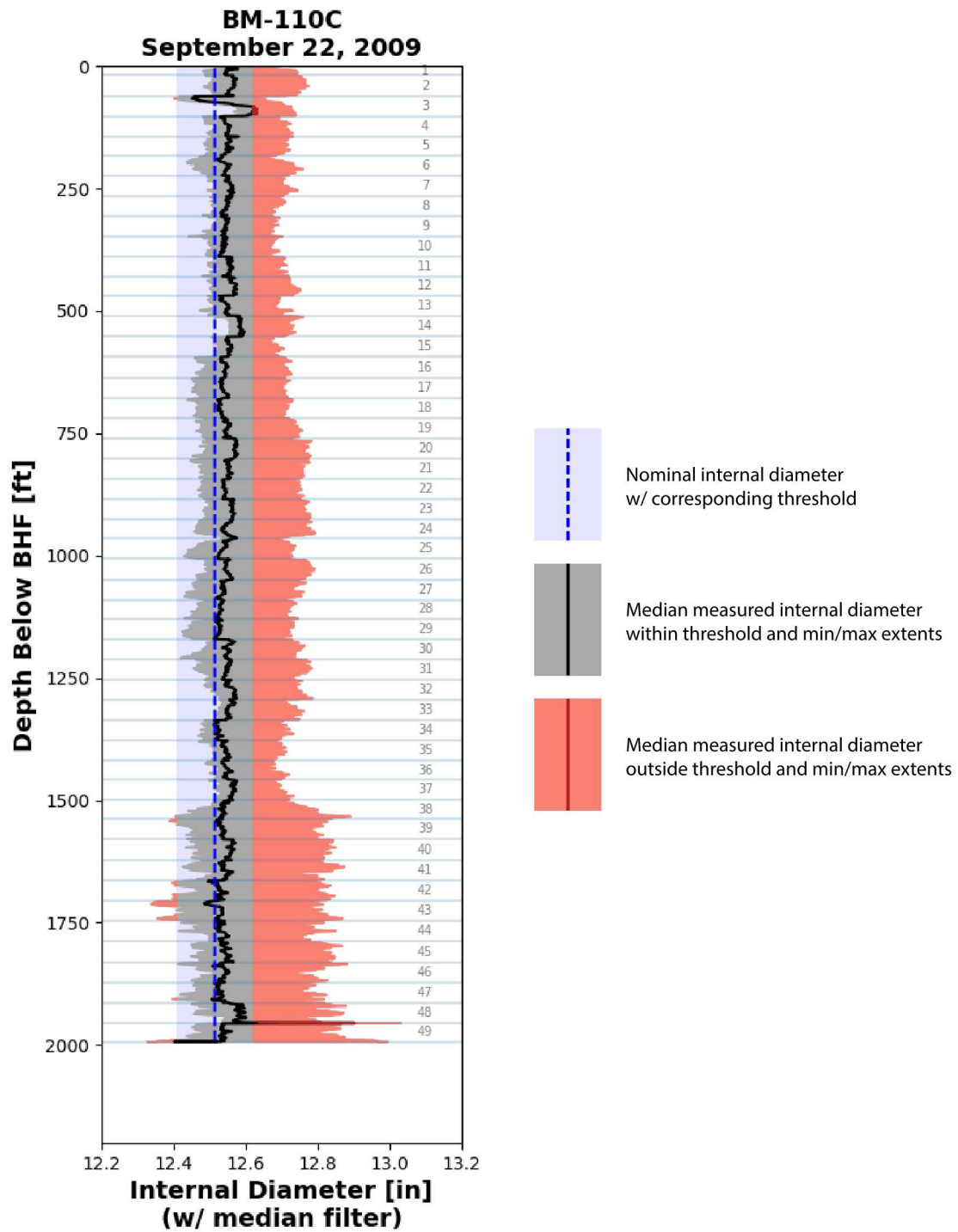


Figure 3.58: Measured internal diameter of BM-110C taken on September 22, 2009. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

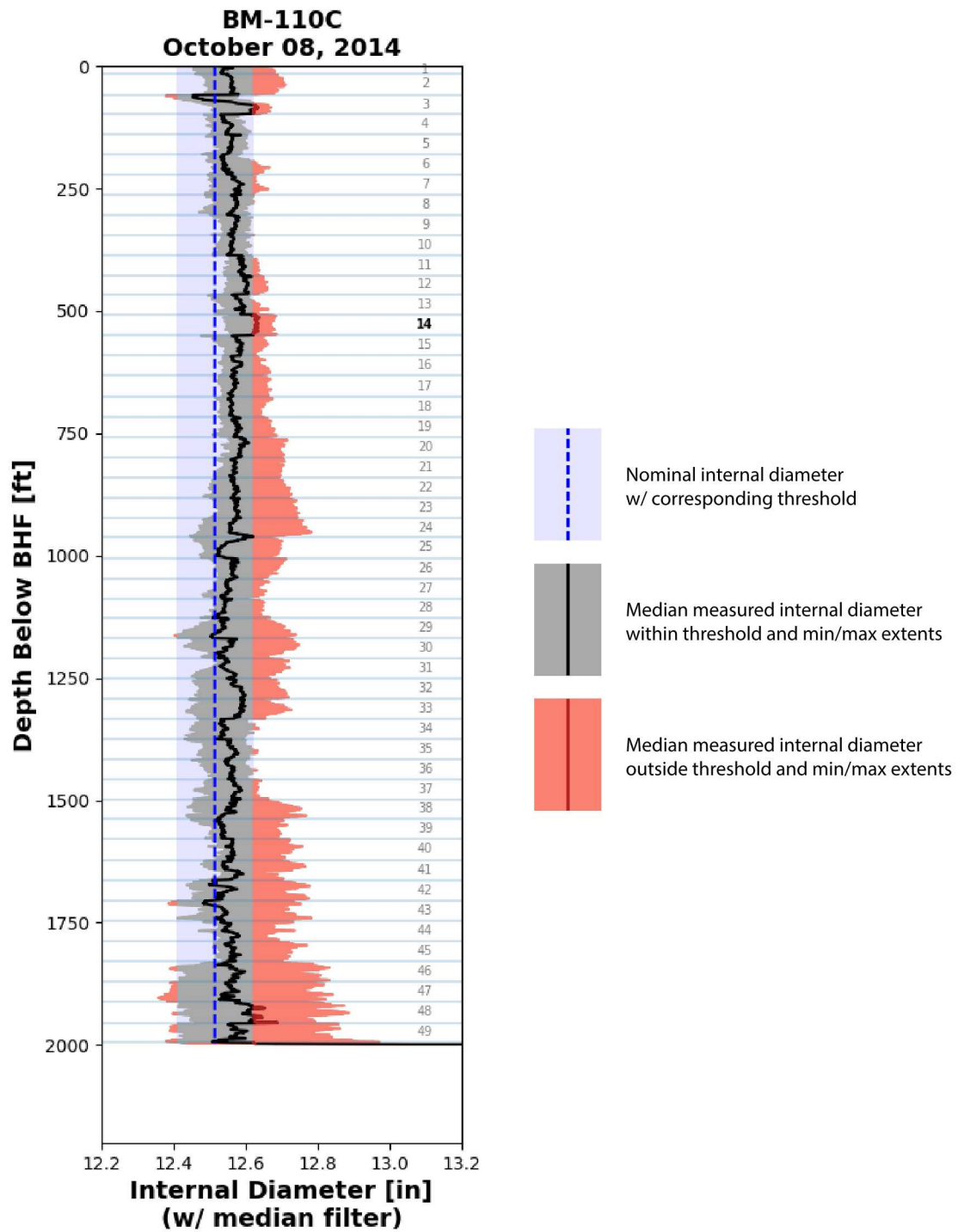


Figure 3.59: Measured internal diameter of BM-110C taken on October 08, 2014. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.36 Bryan Mound 111A

There was a single survey taken of Bryan Mound 111A. The measured median inner diameter is slightly more variable throughout the well but all sections are calculated to be the weight in the as-built specifications.

Table 3.35: BM-111A Innermost Cemented Casing As-Built Information

Grade	Outside Diameter		Connection Type		
K-55	16"		ST&C		

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
84	0	1997	0.495	15.01	1410

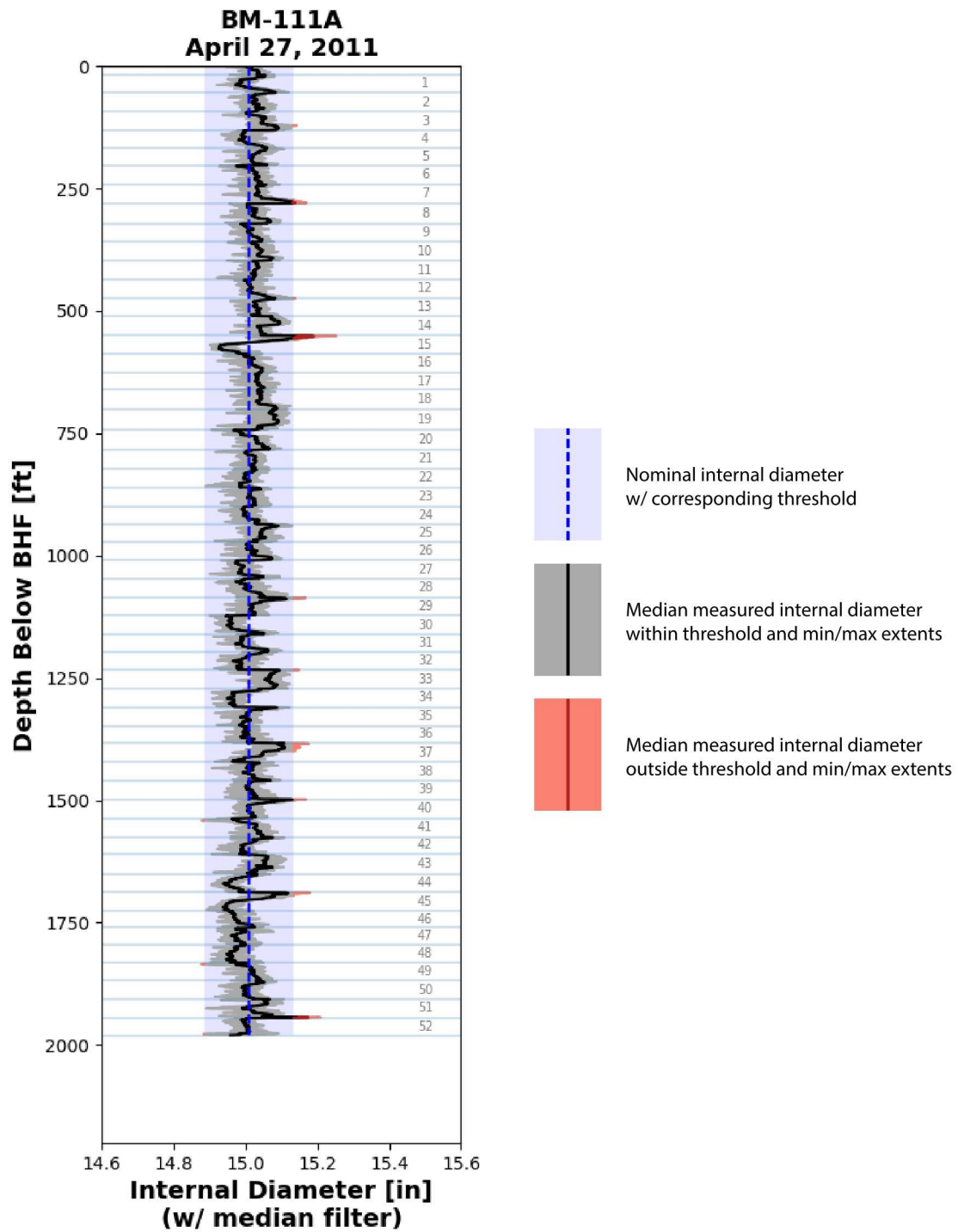


Figure 3.60: Measured internal diameter of BM-111A taken on April 27, 2011. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.37 Bryan Mound 111B

Like Bryan Mound 111A, the measured inner diameter of BM-111B is more variable than most of the other wells but most of the sections are still calculated to be within tolerance and the casing weight specified in the as-built drawings. Figure 3.61 shows section 3 being the only section to be calculated out of tolerance. The inner diameter of this section is larger than expected.

Table 3.36: BM-111B Innermost Cemented Casing As-Built Information

Grade	Outside Diameter		Connection Type		
K-55	16"		ST&C		

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
84	0	1961	0.495	15.01	1410

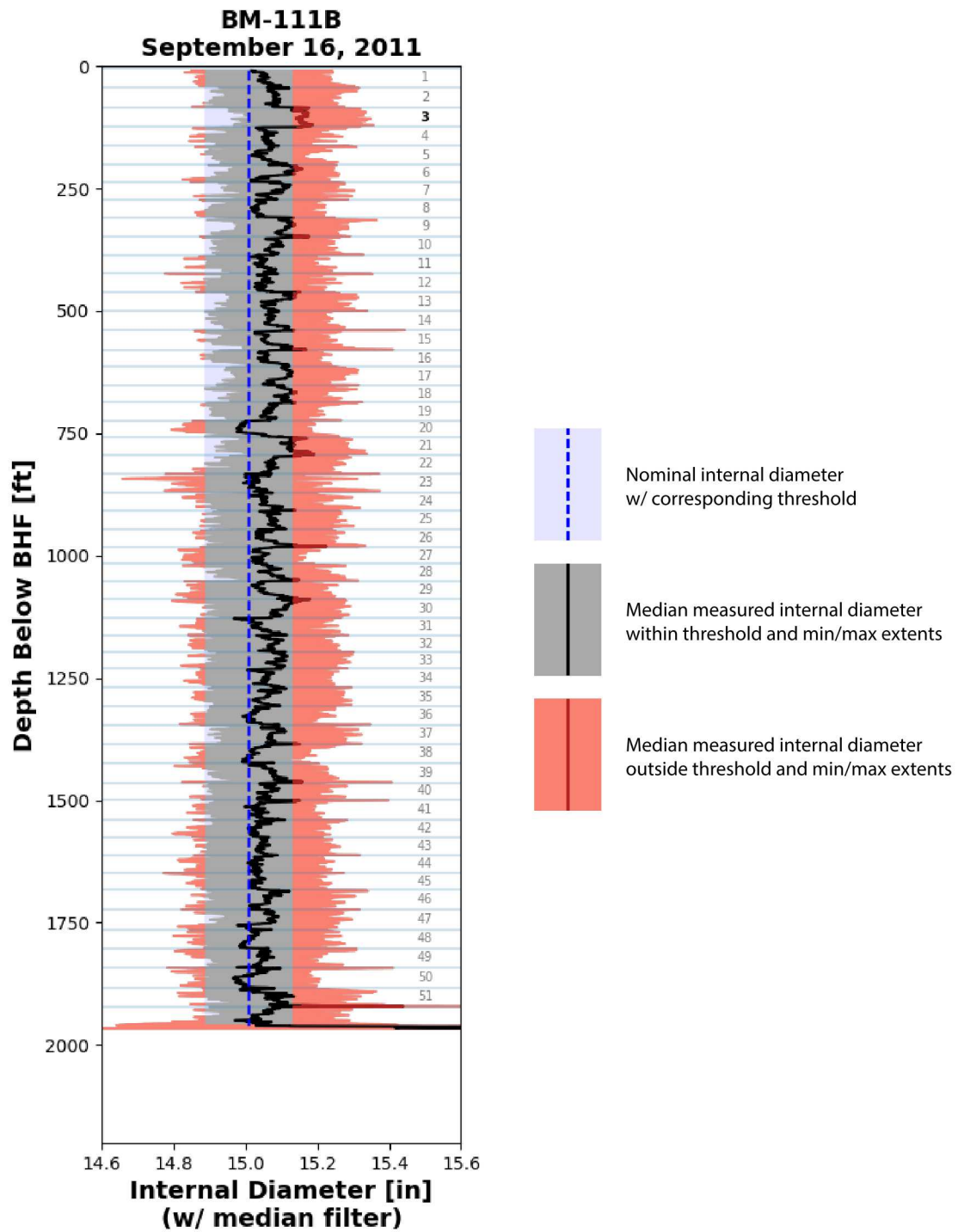


Figure 3.61: Measured internal diameter of BM-111B taken on September 16, 2011. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.38 Bryan Mound 112A

There have been two surveys of BM-112A, one on May 5, 2011 and the other on August 15, 2015. The survey results from the 2011 survey, shown in 3.62, have only one well section out of tolerance. This same section (section 23) is also out of tolerance in the second survey. In addition, section 35 also appears to be out of tolerance in the 2015 survey.

While not out of tolerance, section 42 looks to be an 84 #/ft. casing rather than the specified 75#/ft.

Table 3.37: BM-112A Innermost Cemented Casing As-Built Information

Grade		Outside Diameter		Connection Type	
K-55		16"		ST&C	

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
75	0	1679	0.438	15.124	1020
84	1679	1979	0.495	15.01	1410

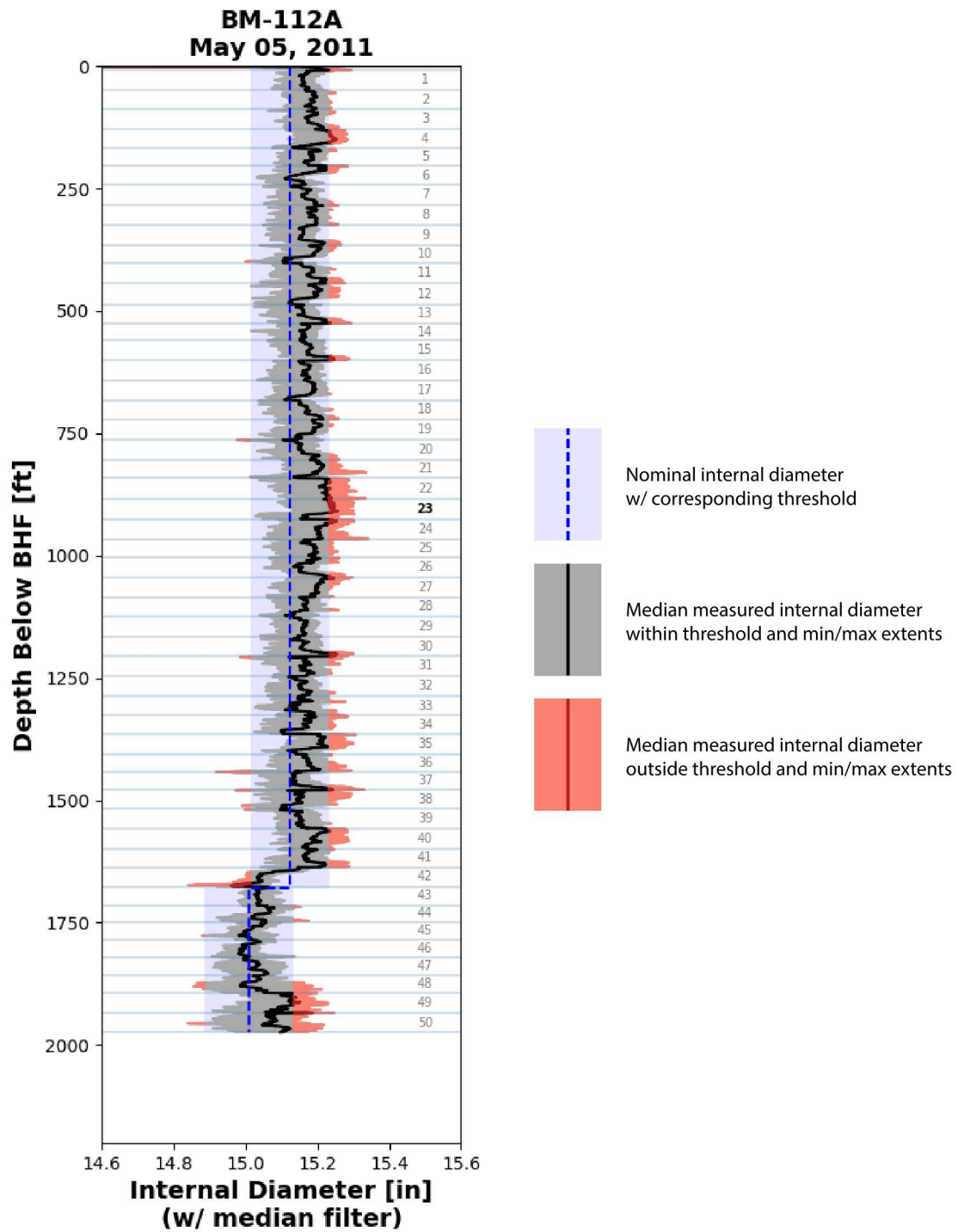


Figure 3.62: Measured internal diameter of BM-112A taken on May 05, 2011. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

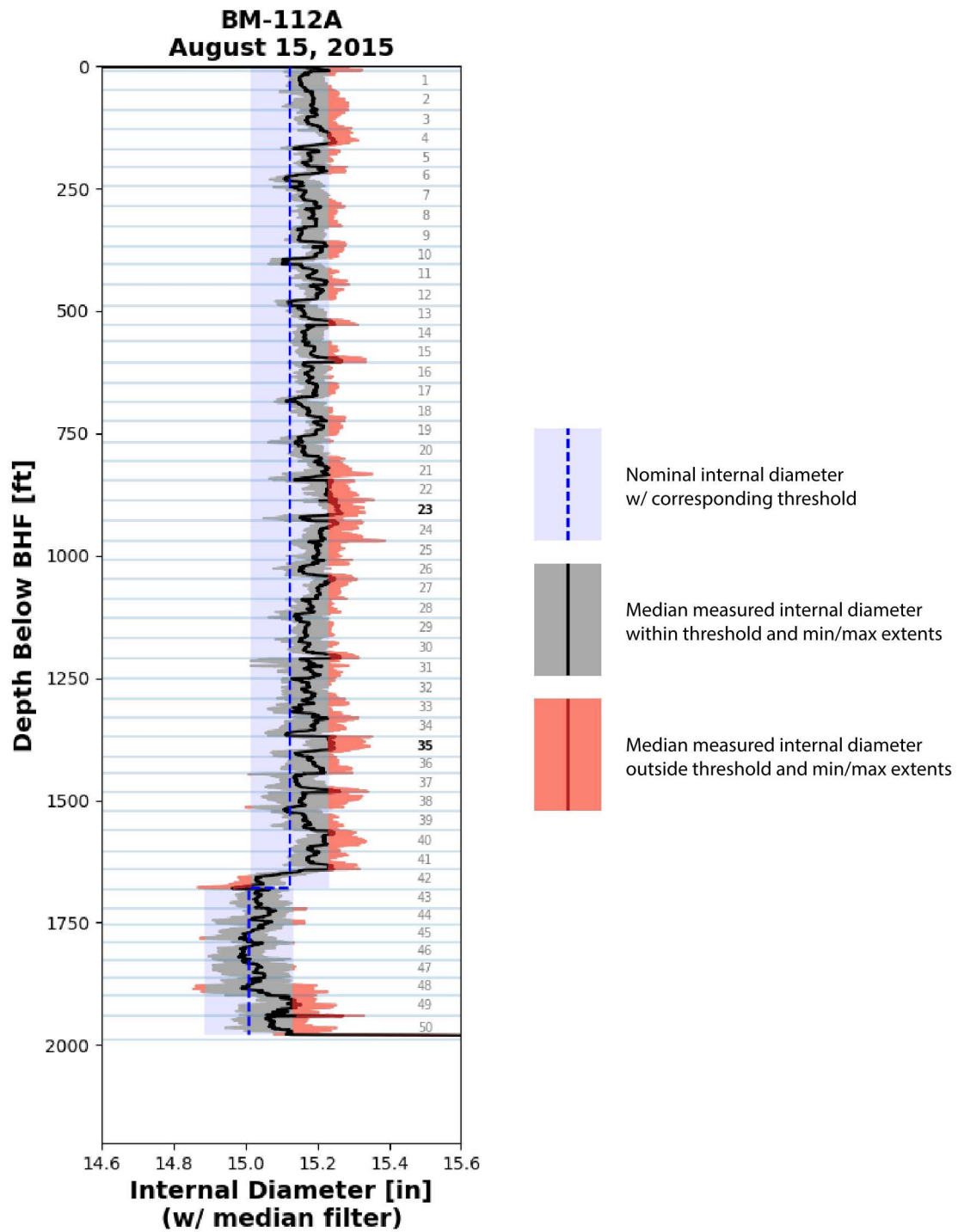


Figure 3.63: Measured internal diameter of BM-112A taken on August 15, 2015. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.39 Bryan Mound 112C

Bryan Mound 112C has had three surveys, two of the innermost cemented casing and another of an installed liner. Surveys of the innermost cemented casing suggest that well sections 7 and 42 have larger inner diameter than the as-built tolerance allows. Sections 22 and 23 are also near the allowable tolerance and may be slightly lighter casing weights.

The survey of the installed liner shows that all sections are in tolerance if the casing is assumed to have an outer diameter of 13 3/8 and a weight of 68 #/ft.

Table 3.38: BM-112C Innermost Cemented Casing As-Built Information

Grade		Outside Diameter		Connection Type	
K-55		16"		ST&C	

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
84	0	1998	0.495	15.01	1410

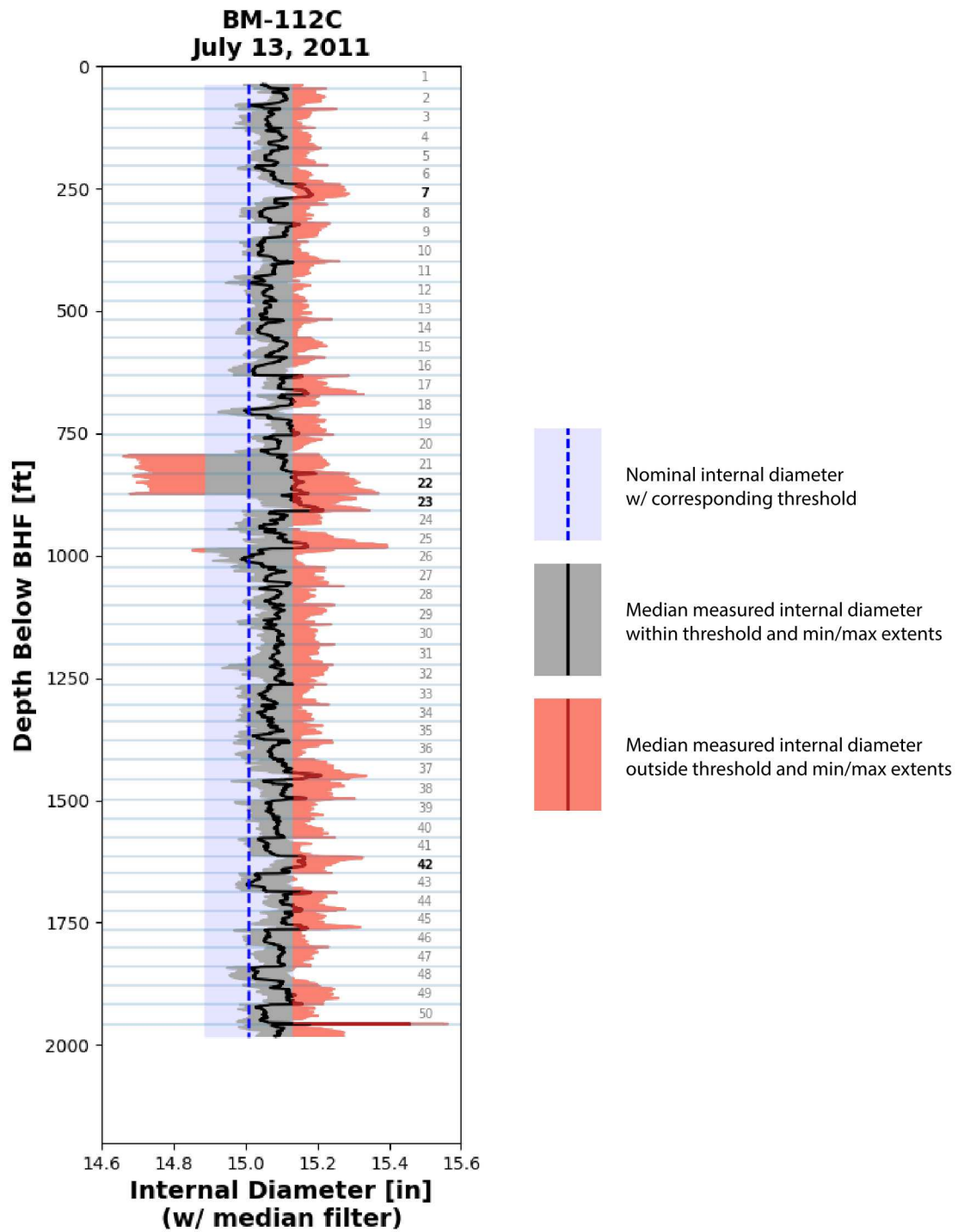


Figure 3.64: Measured internal diameter of BM-112C taken on July 13, 2011. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

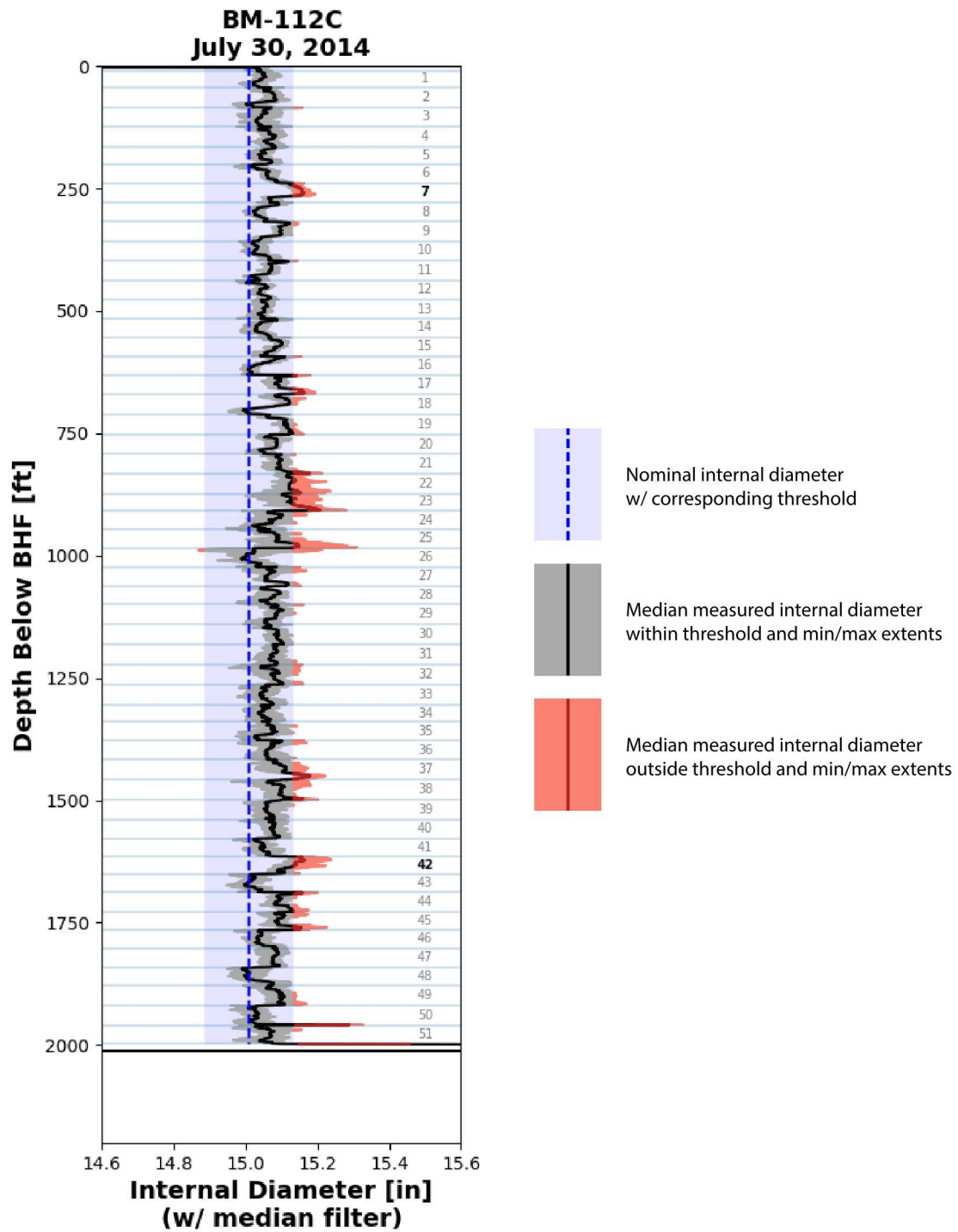


Figure 3.65: Measured internal diameter of BM-112C taken on July 30, 2014. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

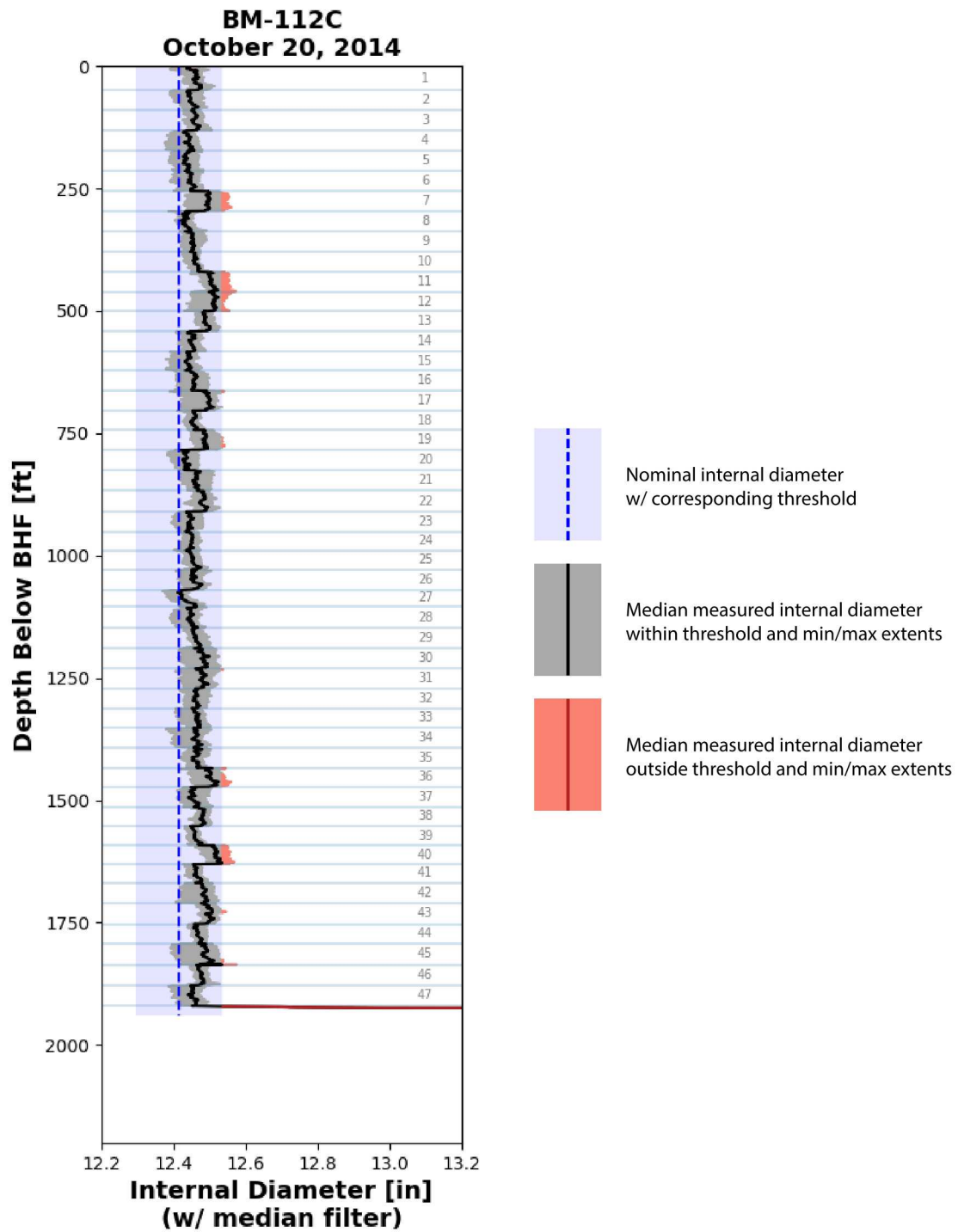


Figure 3.66: Measured internal diameter of BM-112C taken on October 20, 2014. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.40 Bryan Mound 113A

Bryan Mound 113A was surveyed once in 2011. The survey showed many sections near the outer extent of acceptable inner diameter. There are calculated to be eight sections that have larger internal diameters than the API specifications allow for the given casing weight. There is a variation in measured internal diameters near the edge of salt.

Table 3.39: BM-113A Innermost Cemented Casing As-Built Information

Grade	Outside Diameter		Connection Type		
K-55	13 3/8"		Buttress		

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
61	0	82	0.43	12.515	1540
54.5	82	1489	0.38	12.615	1130
61	1489	2004	0.43	12.515	1540

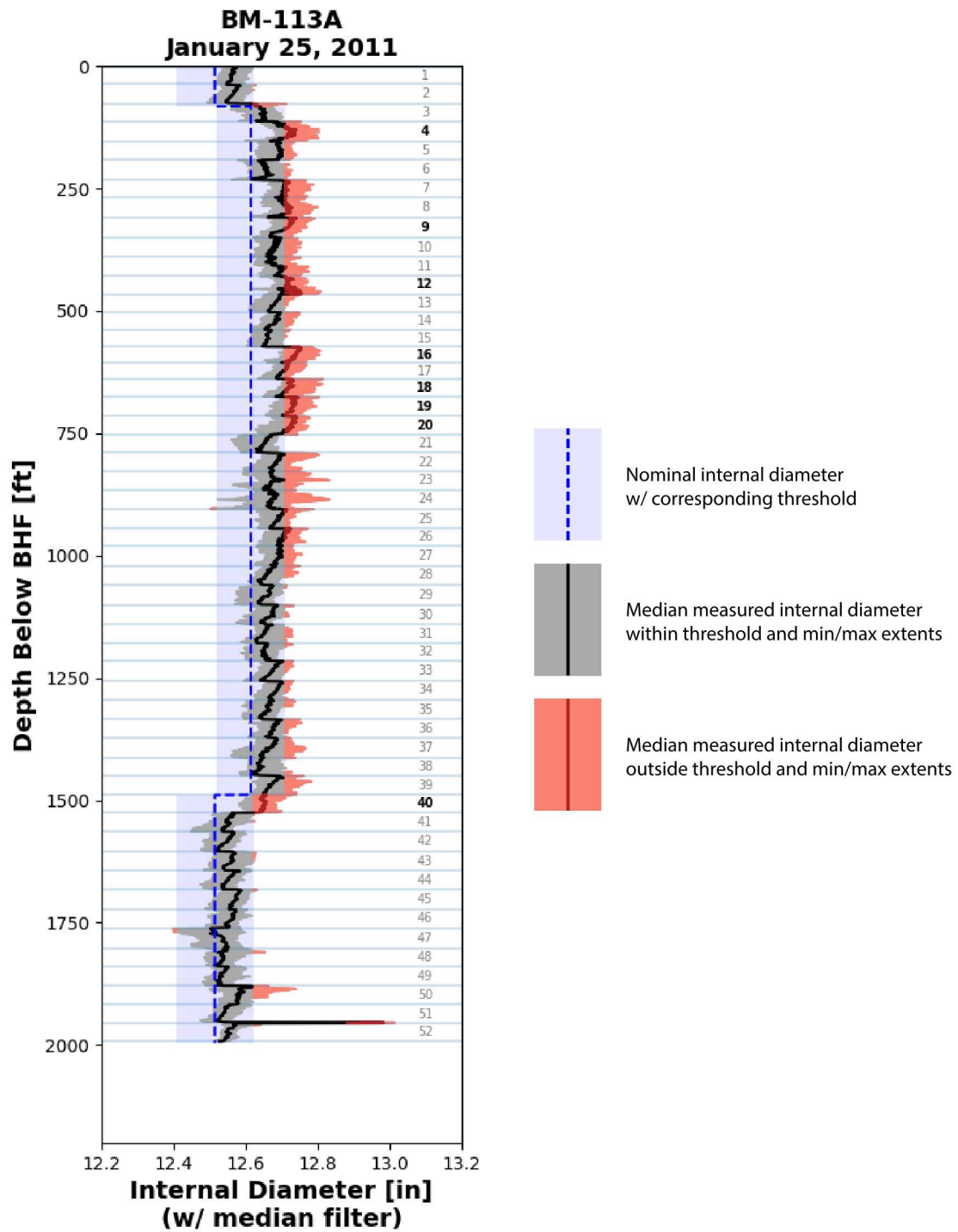


Figure 3.67: Measured internal diameter of BM-113A taken on January 25, 2011. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.41 Bryan Mound 113B

Bryan Mound 113B has been surveyed twice, once in 2008 and again in 2011. Both surveys show that the casings are calculated to be the nominal value.

Table 3.40: BM-113B Innermost Cemented Casing As-Built Information

Grade		Outside Diameter		Connection Type	
K-55		13 3/8"		Buttress	

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
61	0	90	0.43	12.515	1540
54.5	90	1580	0.38	12.615	1130
61	1580	2022	0.43	12.515	1540

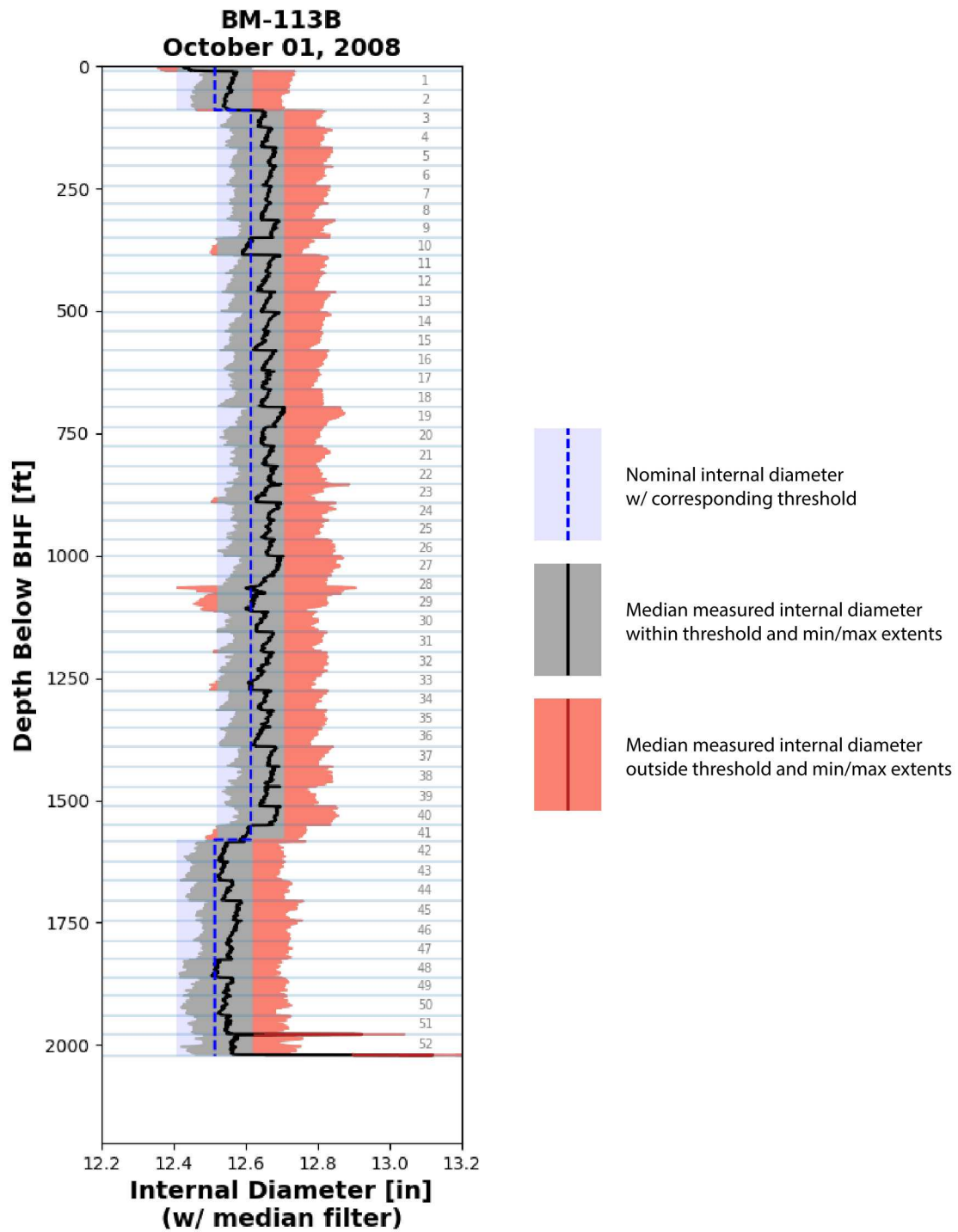


Figure 3.68: Measured internal diameter of BM-113B taken on October 01, 2008. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

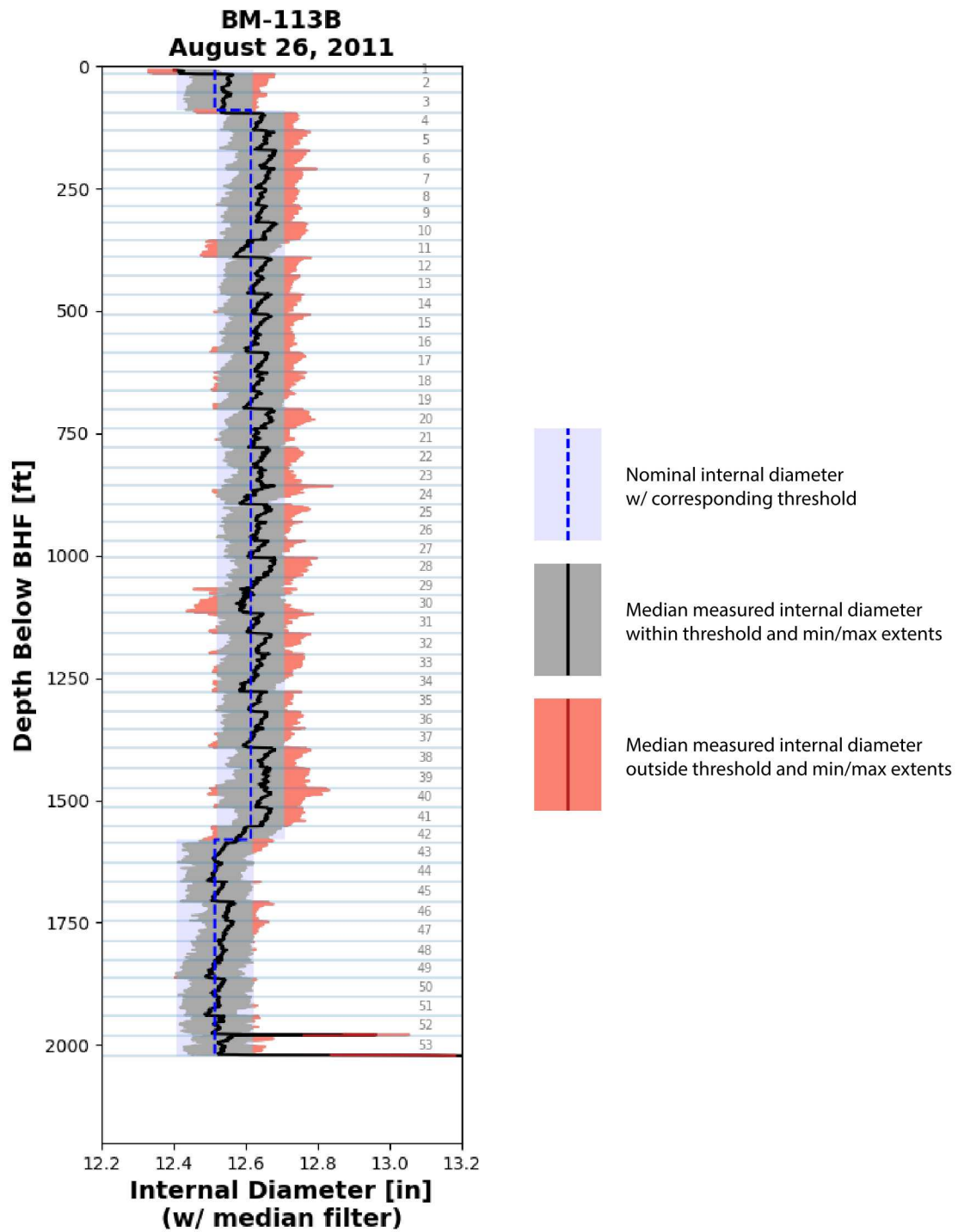


Figure 3.69: Measured internal diameter of BM-113B taken on August 26, 2011. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.42 Bryan Mound 114A

The as-built drawing indicates the innermost cemented casing is both 16" and 13 3/8". Further measurements suggest the true outer diameter is 13 3/8". Assuming this is the case, all well sections are near the nominal value found in the as-built drawings.

Table 3.41: BM-114A Innermost Cemented Casing As-Built Information

Grade		Outside Diameter		Connection Type	
K-55		13 3/8"		Buttress	

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
61	0	48	0.43	12.515	1540
54.5	48	1585	0.38	12.615	1130
61	1585	2016	0.43	12.515	1540

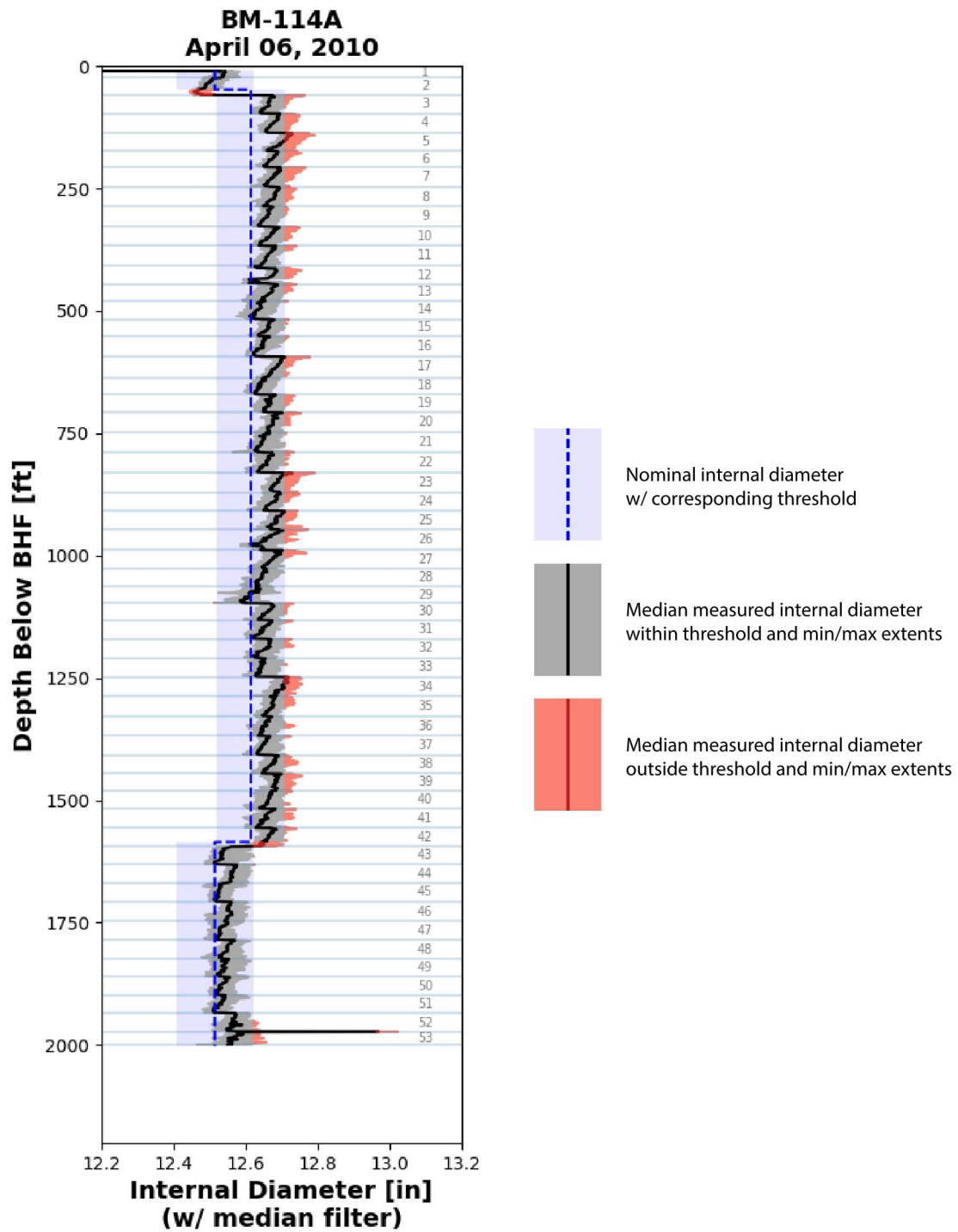


Figure 3.70: Measured internal diameter of BM-114A taken on April 06, 2010. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.43 Bryan Mound 114B

The single survey of Bryan Mound 114B indicates all section casing weights reflect the casing weights specified in the as-built drawings.

Table 3.42: BM-114B Innermost Cemented Casing As-Built Information

Grade		Outside Diameter		Connection Type	
K-55		13 3/8"		Buttress	

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
61	0	46	0.43	12.515	1540
54.5	46	1562	0.38	12.615	1130
61	1562	2005	0.43	12.515	1540

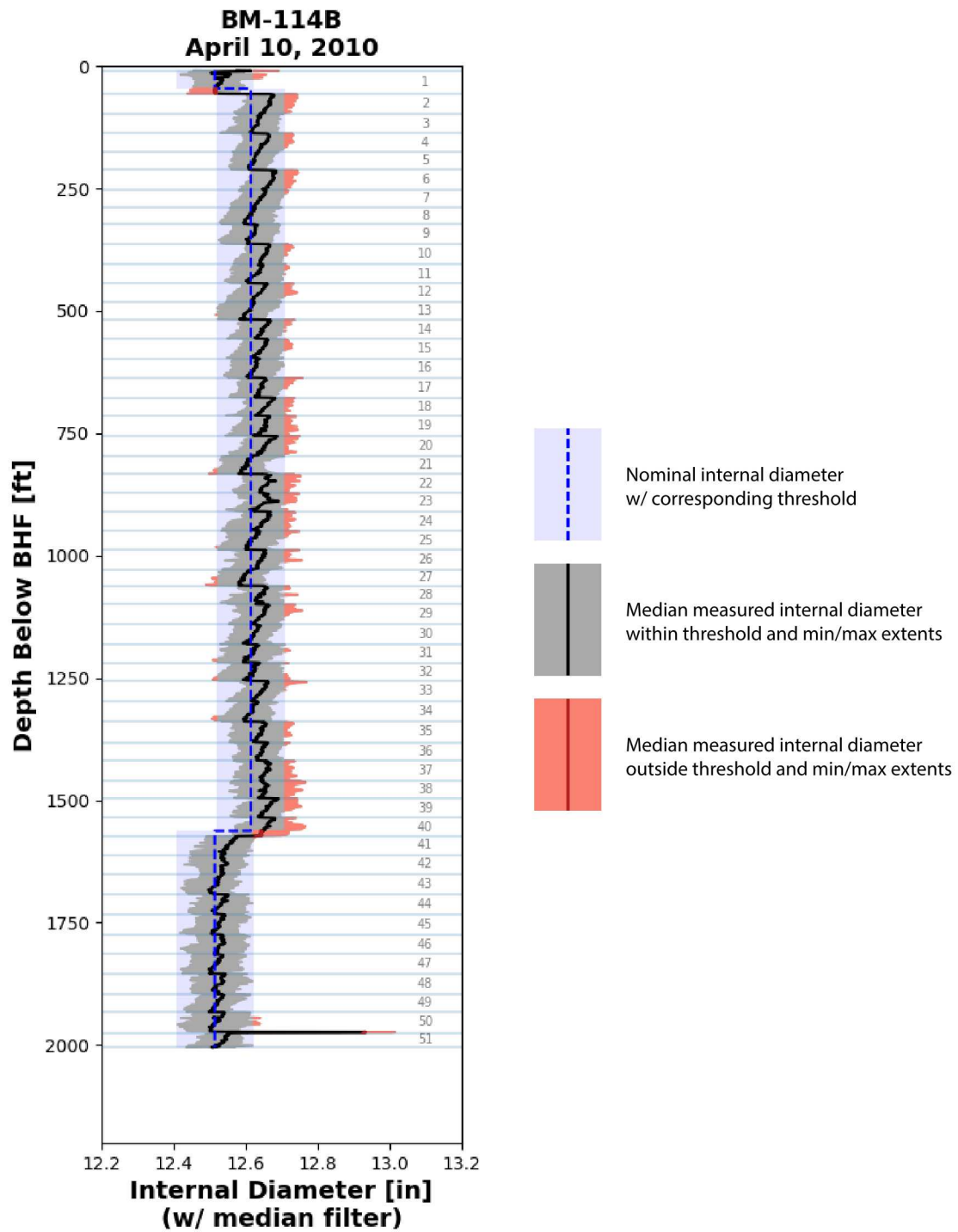


Figure 3.71: Measured internal diameter of BM-114B taken on April 10, 2010. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.44 Bryan Mound 115A

All sections in 115B are calculated to be the weight specified in the as-built drawings.

Table 3.43: BM-115A Innermost Cemented Casing As-Built Information

Grade		Outside Diameter		Connection Type	
K-55		13 3/8"		Buttress	

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
61	0	68	0.43	12.515	1540
54.5	68	1576	0.38	12.615	1130
61	1576	2011	0.43	12.515	1540

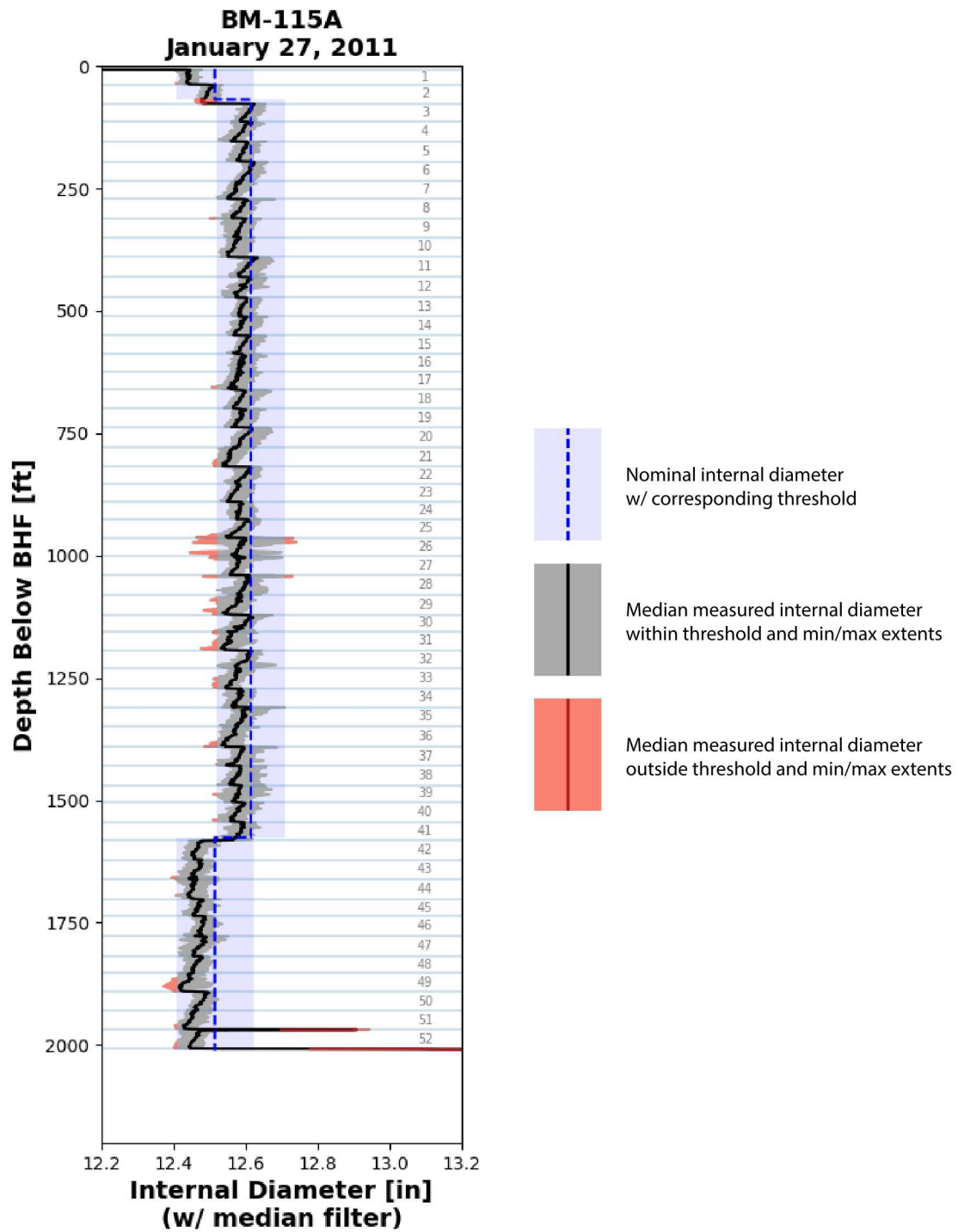


Figure 3.72: Measured internal diameter of BM-115A taken on January 27, 2011. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.45 Bryan Mound 115B

Most of the well sections are calculated to be the casing weight specified in the as-built drawings. Only well section 27 is calculated to have a lower casing weight than the as-built drawing would suggest.

Table 3.44: BM-115B Innermost Cemented Casing As-Built Information

Grade		Outside Diameter		Connection Type	
K-55		13 3/8"		Buttress	

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
61	0	58	0.43	12.515	1540
54.5	58	1536	0.38	12.615	1130
61	1536	2018	0.43	12.515	1540

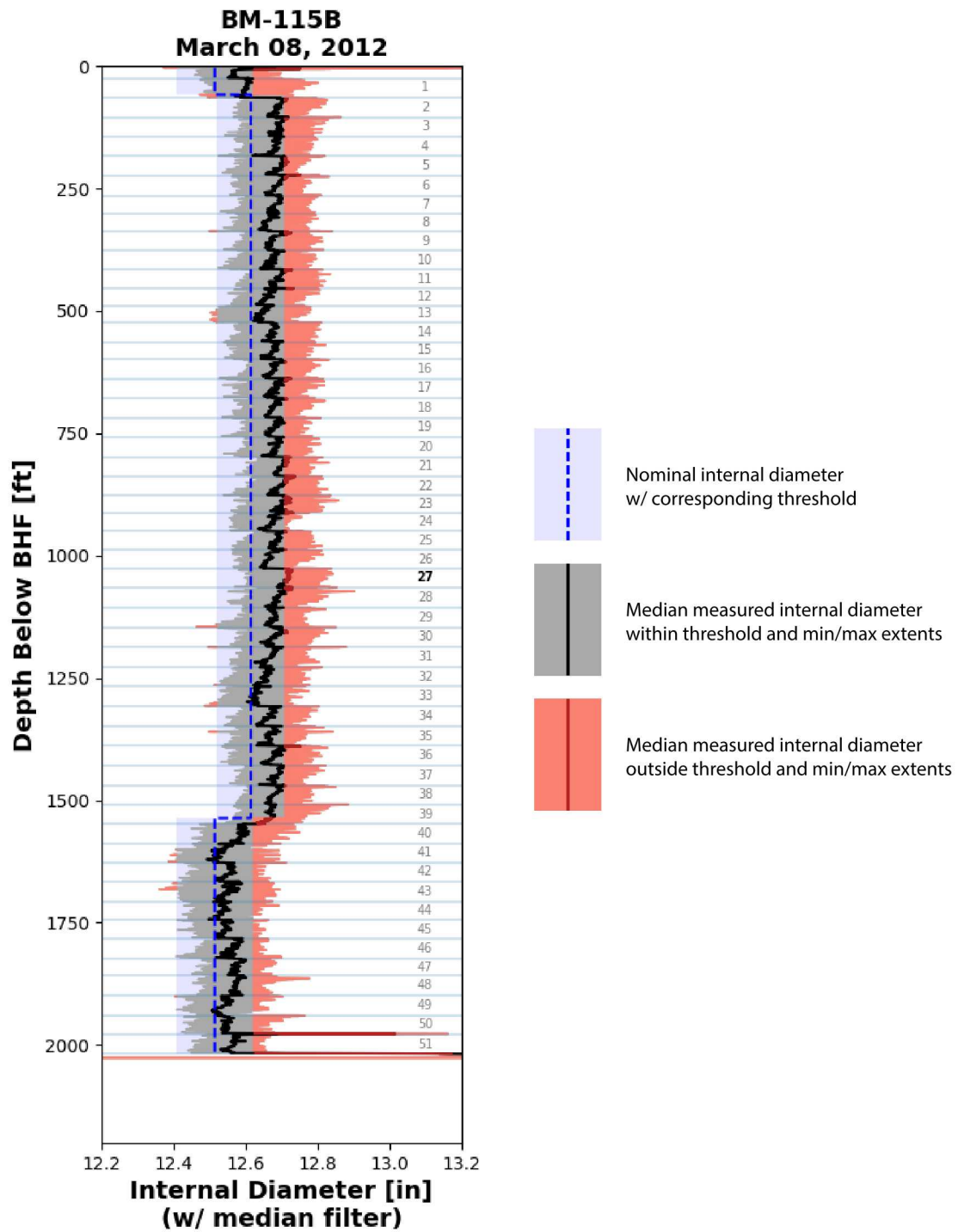


Figure 3.73: Measured internal diameter of BM-115B taken on March 08, 2011. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.46 Bryan Mound 116A

Bryan Mound 116A was surveyed in 2009. That survey showed 20 of the 51 sections have inner diameters larger than specified in the as-built drawings. Most of the well casing sections are also close to being out of tolerance. It is possible another survey of this well would help identify which sections are truly out of tolerance and which are simply close.

Table 3.45: BM-116A Innermost Cemented Casing As-Built Information

Grade		Outside Diameter		Connection Type	
K-55		13 3/8"		Buttress	

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
61	0	29	0.43	12.515	1540
54.5	29	1572	0.38	12.615	1130
61	1572	2006	0.43	12.515	1540

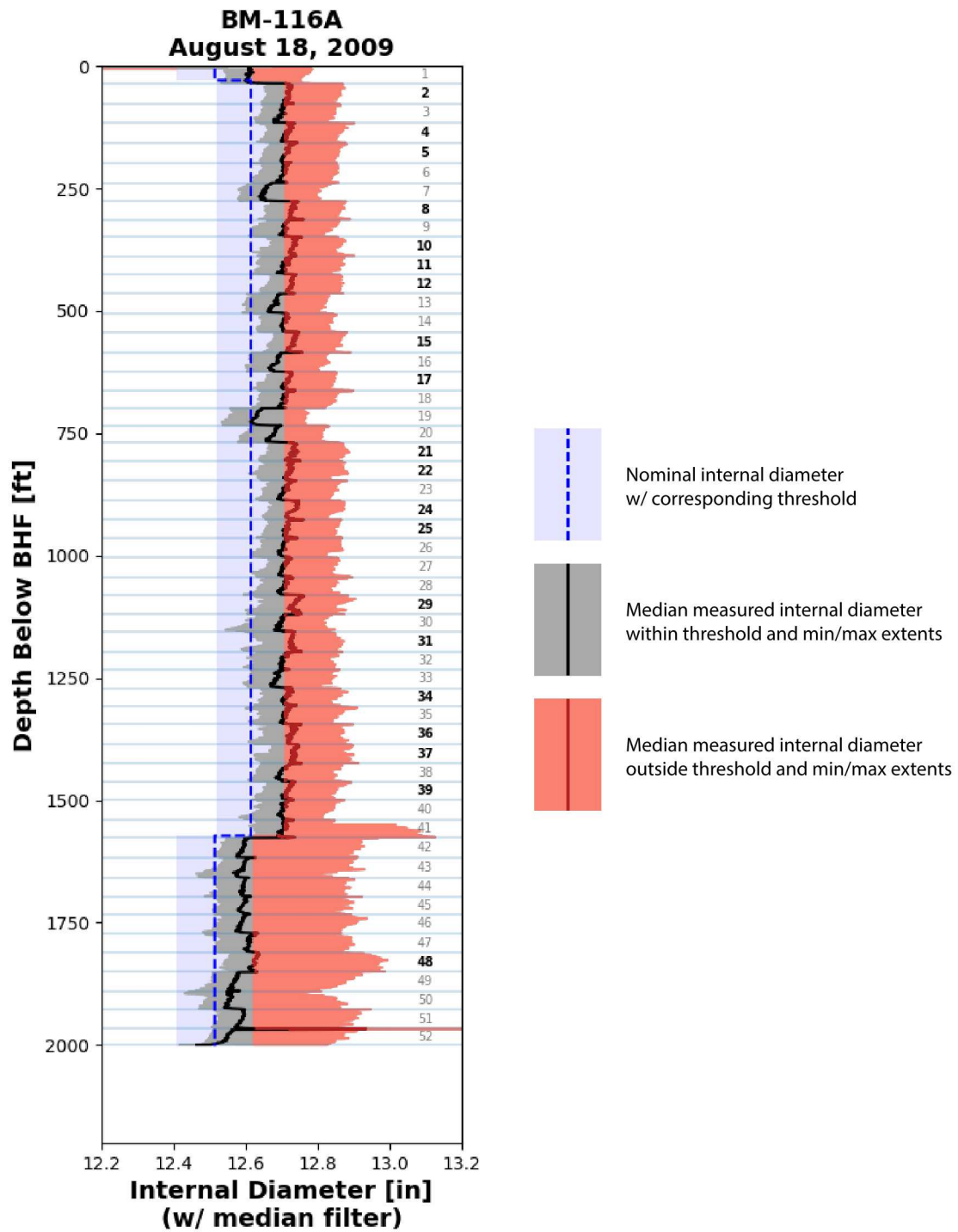


Figure 3.74: Measured internal diameter of BM-116A taken on August 18, 2009. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

3.47 Bryan Mound 116B

All well sections are calculated to within tolerance and reflect the nominal casing weights.

Table 3.46: BM-116B Innermost Cemented Casing As-Built Information

Grade		Outside Diameter		Connection Type	
K-55		13 3/8"		Buttress	

#/F	Depth From [ft]	Depth To [ft]	Wall Thickness [in]	Internal Diameter [in]	Collapse Pressure [psi]
61	0	40	0.43	12.515	1540
54.5	40	1575	0.38	12.615	1130
61	1575	2011	0.43	12.515	1540

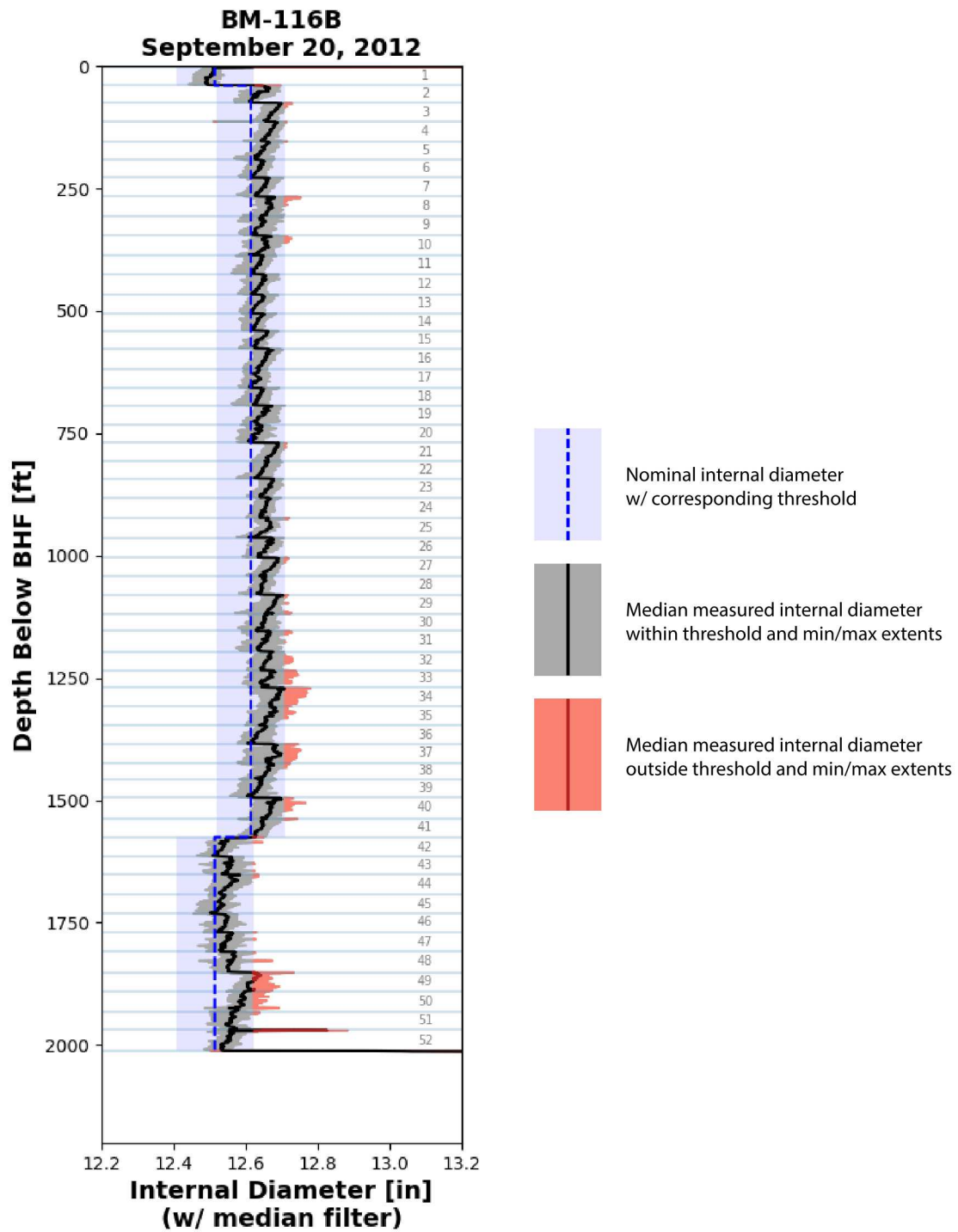


Figure 3.75: Measured internal diameter of BM-116B taken on September 20, 2012. The blue horizontal lines show the estimated casing section depths with the corresponding section numbers.

Chapter 4

Conclusion/Discussion

Most of the Bryan Mound wells are within tolerance or near the as-built specification. Even the wells outside API tolerance do not differ significantly from the as-built specifications. There are, however, wells with incorrect as-built drawings. Information from this report should be used to update the current drawings to allow for more accurate engineering solutions in the future.

References

- [1] ASTM International. *Standard Specification for General Requirements for Alloy and Stainless Steel Pipe*, 2004.
- [2] Dylan M. Moriarty. Well casing baseline analysis for the west hackberry strategic petroleum reserve site, 2017.
- [3] Dylan M. Moriarty and Barry L. Roberts. Well casing baseline analysis for the big hill strategic petroleum reserve site, 2016.
- [4] PB-KBB Inc. *Planning Studies , Preliminary and Conceptual Design and Geotechnical Investigations*.
- [5] Barry L. Roberts. Analysis of mulit-arm caliper data for the u.s. strategic petroleum reserve, 2015.

Appendix A

Tabular Well Section Information

The tables in Appendix A show casing weight calculations for each well section. Specifically, the tables present information from the decision process. For each section there is a given depth calculated using the process detailed in the methodology section. Each of the depths are measured from the bradenhead flange and rounded to the nearest foot. Second, there are the relevant as-built dimensions for each section which include nominal outer depth, nominal casing weight, and nominal inner diameter. Next, the median internal diameter is presented for each section along with the casing weight that best reflects the measured diameter. The next column shows if the measured median inner diameter is within tolerance for the given nominal casing weight. If the internal diameter is within tolerance, the casing section is considered to be the nominal casing weight. If the measured internal diameter is outside tolerance, then the well casing is calculated to be that of the closest calculated casing weight.

A.1 Bryan Mound 001A

Table A.1: BM-001A detailed section information taken on June 7, 2012

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	41	13.375	54.5	12.615	12.683	48	TRUE	54.5
2	41	77	13.375	54.5	12.615	12.709	48	TRUE	54.5
3	77	114	13.375	54.5	12.615	12.691	48	TRUE	54.5
4	114	156	13.375	54.5	12.615	12.688	48	TRUE	54.5
5	156	197	13.375	54.5	12.615	12.679	48	TRUE	54.5
6	197	238	13.375	54.5	12.615	12.671	48	TRUE	54.5
7	238	279	13.375	54.5	12.615	12.675	48	TRUE	54.5
8	279	320	13.375	54.5	12.615	12.680	48	TRUE	54.5
9	320	361	13.375	54.5	12.615	12.679	48	TRUE	54.5
10	361	402	13.375	54.5	12.615	12.667	48	TRUE	54.5
11	402	443	13.375	54.5	12.615	12.680	48	TRUE	54.5
12	443	485	13.375	54.5	12.615	12.679	48	TRUE	54.5
13	485	526	13.375	54.5	12.615	12.679	48	TRUE	54.5
14	526	565	13.375	54.5	12.615	12.705	48	TRUE	54.5
15	565	601	13.375	54.5	12.615	12.711	48	FALSE	48
16	601	641	13.375	54.5	12.615	12.696	48	TRUE	54.5
17	641	682	13.375	54.5	12.615	12.723	48	FALSE	48
18	682	724	13.375	54.5	12.615	12.719	48	FALSE	48
19	724	767	13.375	54.5	12.615	12.713	48	FALSE	48
20	767	806	13.375	54.5	12.615	12.716	48	FALSE	48
21	806	846	13.375	54.5	12.615	12.692	48	TRUE	54.5
22	846	887	13.375	54.5	12.615	12.682	48	TRUE	54.5
23	887	928	13.375	54.5	12.615	12.679	48	TRUE	54.5
24	928	969	13.375	54.5	12.615	12.674	48	TRUE	54.5
25	969	1011	13.375	54.5	12.615	12.685	48	TRUE	54.5
26	1011	1052	13.375	54.5	12.615	12.685	48	TRUE	54.5
27	1052	1094	13.375	54.5	12.615	12.686	48	TRUE	54.5
28	1094	1136	13.375	54.5	12.615	12.698	48	TRUE	54.5
29	1136	1178	13.375	54.5	12.615	12.692	48	TRUE	54.5
30	1178	1220	13.375	54.5	12.615	12.728	48	FALSE	48
31	1220	1263	13.375	54.5	12.615	12.717	48	FALSE	48
32	1263	1304	13.375	54.5	12.615	12.664	54.5	TRUE	54.5
33	1304	1345	13.375	54.5	12.615	12.694	48	TRUE	54.5
34	1345	1386	13.375	54.5	12.615	12.677	48	TRUE	54.5
35	1386	1429	13.375	54.5	12.615	12.677	48	TRUE	54.5
36	1429	1470	13.375	54.5	12.615	12.670	48	TRUE	54.5
37	1470	1511	13.375	54.5	12.615	12.675	48	TRUE	54.5
38	1511	1550	13.375	54.5	12.615	12.665	54.5	TRUE	54.5
39	1550	1592	13.375	54.5	12.615	12.674	48	TRUE	54.5
40	1592	1635	13.375	54.5	12.615	12.687	48	TRUE	54.5
41	1635	1676	13.375	54.5	12.615	12.662	54.5	TRUE	54.5
42	1676	1716	13.375	54.5	12.615	12.674	48	TRUE	54.5
43	1716	1758	13.375	54.5	12.615	12.670	48	TRUE	54.5
44	1758	1799	13.375	54.5	12.615	12.673	48	TRUE	54.5
45	1799	1842	13.375	54.5	12.615	12.680	48	TRUE	54.5
46	1842	1883	13.375	54.5	12.615	12.659	54.5	TRUE	54.5
47	1883	1926	13.375	54.5	12.615	12.698	48	TRUE	54.5
48	1926	1968	13.375	54.5	12.615	12.674	48	TRUE	54.5
49	1968	2006	13.375	54.5	12.615	12.686	48	TRUE	54.5
50	2006	2045	13.375	54.5	12.615	12.738	48	FALSE	48
51	2045	2083	13.375	54.5	12.615	12.714	48	FALSE	48
52	2083	2124	13.375	54.5	12.615	12.672	48	TRUE	54.5
53	2124	2166	13.375	54.5	12.615	12.686	48	TRUE	54.5

Table A.2: BM-001A detailed section information taken on November 17, 2014

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	41	13.375	54.5	12.615	12.600	54.5	TRUE	54.5
2	41	77	13.375	54.5	12.615	12.624	54.5	TRUE	54.5
3	77	114	13.375	54.5	12.615	12.613	54.5	TRUE	54.5
4	114	156	13.375	54.5	12.615	12.619	54.5	TRUE	54.5
5	156	197	13.375	54.5	12.615	12.611	54.5	TRUE	54.5
6	197	238	13.375	54.5	12.615	12.608	54.5	TRUE	54.5
7	238	279	13.375	54.5	12.615	12.614	54.5	TRUE	54.5
8	279	320	13.375	54.5	12.615	12.626	54.5	TRUE	54.5
9	320	361	13.375	54.5	12.615	12.626	54.5	TRUE	54.5
10	361	402	13.375	54.5	12.615	12.621	54.5	TRUE	54.5
11	402	443	13.375	54.5	12.615	12.632	54.5	TRUE	54.5
12	443	485	13.375	54.5	12.615	12.638	54.5	TRUE	54.5
13	485	526	13.375	54.5	12.615	12.638	54.5	TRUE	54.5
14	526	565	13.375	54.5	12.615	12.669	48	TRUE	54.5
15	565	601	13.375	54.5	12.615	12.674	48	TRUE	54.5
16	601	641	13.375	54.5	12.615	12.665	54.5	TRUE	54.5
17	641	682	13.375	54.5	12.615	12.694	48	TRUE	54.5
18	682	724	13.375	54.5	12.615	12.693	48	TRUE	54.5
19	724	767	13.375	54.5	12.615	12.688	48	TRUE	54.5
20	767	806	13.375	54.5	12.615	12.695	48	TRUE	54.5
21	806	846	13.375	54.5	12.615	12.671	48	TRUE	54.5
22	846	887	13.375	54.5	12.615	12.664	54.5	TRUE	54.5
23	887	928	13.375	54.5	12.615	12.663	54.5	TRUE	54.5
24	928	969	13.375	54.5	12.615	12.664	54.5	TRUE	54.5
25	969	1011	13.375	54.5	12.615	12.670	48	TRUE	54.5
26	1011	1052	13.375	54.5	12.615	12.674	48	TRUE	54.5
27	1052	1094	13.375	54.5	12.615	12.680	48	TRUE	54.5
28	1094	1136	13.375	54.5	12.615	12.687	48	TRUE	54.5
29	1136	1178	13.375	54.5	12.615	12.678	48	TRUE	54.5
30	1178	1220	13.375	54.5	12.615	12.715	48	FALSE	48
31	1220	1263	13.375	54.5	12.615	12.703	48	TRUE	54.5
32	1263	1304	13.375	54.5	12.615	12.640	54.5	TRUE	54.5
33	1304	1345	13.375	54.5	12.615	12.681	48	TRUE	54.5
34	1345	1386	13.375	54.5	12.615	12.663	54.5	TRUE	54.5
35	1386	1429	13.375	54.5	12.615	12.663	54.5	TRUE	54.5
36	1429	1470	13.375	54.5	12.615	12.655	54.5	TRUE	54.5
37	1470	1511	13.375	54.5	12.615	12.660	54.5	TRUE	54.5
38	1511	1550	13.375	54.5	12.615	12.652	54.5	TRUE	54.5
39	1550	1592	13.375	54.5	12.615	12.659	54.5	TRUE	54.5
40	1592	1635	13.375	54.5	12.615	12.673	48	TRUE	54.5
41	1635	1676	13.375	54.5	12.615	12.648	54.5	TRUE	54.5
42	1676	1716	13.375	54.5	12.615	12.661	54.5	TRUE	54.5
43	1716	1758	13.375	54.5	12.615	12.656	54.5	TRUE	54.5
44	1758	1799	13.375	54.5	12.615	12.658	54.5	TRUE	54.5
45	1799	1842	13.375	54.5	12.615	12.665	48	TRUE	54.5
46	1842	1883	13.375	54.5	12.615	12.647	54.5	TRUE	54.5
47	1883	1926	13.375	54.5	12.615	12.688	48	TRUE	54.5
48	1926	1968	13.375	54.5	12.615	12.660	54.5	TRUE	54.5
49	1968	2006	13.375	54.5	12.615	12.671	48	TRUE	54.5
50	2006	2045	13.375	54.5	12.615	12.723	48	FALSE	48
51	2045	2083	13.375	54.5	12.615	12.704	48	TRUE	54.5
52	2083	2124	13.375	54.5	12.615	12.665	48	TRUE	54.5
53	2124	2166	13.375	54.5	12.615	12.683	48	TRUE	54.5

Table A.3: BM-001A detailed section information taken on January 12, 2015

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	1	42	10.75	51	9.85	9.907	45.5	TRUE	51
2	42	84	10.75	51	9.85	9.895	51	TRUE	51
3	84	125	10.75	51	9.85	9.886	51	TRUE	51
4	125	166	10.75	51	9.85	9.874	51	TRUE	51
5	166	210	10.75	51	9.85	9.897	51	TRUE	51
6	210	251	10.75	51	9.85	9.906	45.5	TRUE	51
7	251	292	10.75	51	9.85	9.916	45.5	TRUE	51
8	292	333	10.75	51	9.85	9.901	45.5	TRUE	51
9	333	376	10.75	51	9.85	9.904	45.5	TRUE	51
10	376	417	10.75	51	9.85	9.913	45.5	TRUE	51
11	417	456	10.75	51	9.85	9.896	51	TRUE	51
12	456	499	10.75	51	9.85	9.903	45.5	TRUE	51
13	499	541	10.75	51	9.85	9.898	51	TRUE	51
14	541	583	10.75	51	9.85	9.893	51	TRUE	51
15	583	625	10.75	51	9.85	9.902	45.5	TRUE	51
16	625	667	10.75	51	9.85	9.923	45.5	TRUE	51
17	667	709	10.75	51	9.85	9.904	45.5	TRUE	51
18	709	747	10.75	51	9.85	9.910	45.5	TRUE	51
19	747	788	10.75	51	9.85	9.905	45.5	TRUE	51
20	788	832	10.75	51	9.85	9.900	51	TRUE	51
21	832	875	10.75	51	9.85	9.914	45.5	TRUE	51
22	875	917	10.75	51	9.85	9.909	45.5	TRUE	51
23	917	958	10.75	51	9.85	9.895	51	TRUE	51
24	958	1001	10.75	51	9.85	9.893	51	TRUE	51
25	1001	1041	10.75	51	9.85	9.905	45.5	TRUE	51
26	1041	1081	10.75	51	9.85	9.896	51	TRUE	51
27	1081	1122	10.75	51	9.85	9.897	51	TRUE	51
28	1122	1165	10.75	51	9.85	9.907	45.5	TRUE	51
29	1165	1206	10.75	51	9.85	9.922	45.5	TRUE	51
30	1206	1248	10.75	51	9.85	9.904	45.5	TRUE	51
31	1248	1290	10.75	51	9.85	9.908	45.5	TRUE	51
32	1290	1332	10.75	51	9.85	9.915	45.5	TRUE	51
33	1332	1374	10.75	51	9.85	9.885	51	TRUE	51
34	1374	1416	10.75	51	9.85	9.901	45.5	TRUE	51
35	1416	1457	10.75	51	9.85	9.889	51	TRUE	51
36	1457	1499	10.75	51	9.85	9.930	45.5	TRUE	51
37	1499	1541	10.75	51	9.85	9.891	51	TRUE	51
38	1541	1583	10.75	51	9.85	9.912	45.5	TRUE	51
39	1583	1625	10.75	51	9.85	9.921	45.5	TRUE	51
40	1625	1668	10.75	51	9.85	9.910	45.5	TRUE	51
41	1668	1711	10.75	51	9.85	9.911	45.5	TRUE	51
42	1711	1754	10.75	51	9.85	9.907	45.5	TRUE	51
43	1754	1795	10.75	51	9.85	9.888	51	TRUE	51
44	1795	1836	10.75	51	9.85	9.913	45.5	TRUE	51
45	1836	1876	10.75	51	9.85	9.900	51	TRUE	51
46	1876	1917	10.75	51	9.85	9.903	45.5	TRUE	51
47	1917	1959	10.75	51	9.85	9.895	51	TRUE	51
48	1959	2001	10.75	51	9.85	9.905	45.5	TRUE	51
49	2001	2048	10.75	51	9.85	9.919	45.5	TRUE	51
50	2048	2089	10.75	51	9.85	9.900	45.5	TRUE	51
51	2089	2127	10.75	51	9.85	9.963	45.5	FALSE	45.5

A.2 Bryan Mound 002

Table A.4: BM-002 detailed section information taken on September 23, 2009

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	19	8.625	32	7.921	7.946	32	TRUE	32
2	19	50	8.625	32	7.921	7.948	32	TRUE	32
3	50	81	8.625	32	7.921	7.934	32	TRUE	32
4	81	112	8.625	32	7.921	7.944	32	TRUE	32
5	112	142	8.625	32	7.921	7.944	32	TRUE	32
6	142	173	8.625	32	7.921	7.939	32	TRUE	32
7	173	200	8.625	32	7.921	7.941	32	TRUE	32
8	200	231	8.625	32	7.921	7.946	32	TRUE	32
9	231	261	8.625	32	7.921	7.954	32	TRUE	32
10	261	289	8.625	32	7.921	7.965	32	TRUE	32
11	289	319	8.625	32	7.921	7.923	32	TRUE	32
12	319	351	8.625	32	7.921	7.932	32	TRUE	32
13	351	380	8.625	32	7.921	7.927	32	TRUE	32
14	380	409	8.625	32	7.921	7.924	32	TRUE	32
15	409	438	8.625	32	7.921	7.931	32	TRUE	32
16	438	469	8.625	32	7.921	7.930	32	TRUE	32
17	469	499	8.625	32	7.921	7.933	32	TRUE	32
18	499	530	8.625	32	7.921	7.922	32	TRUE	32
19	530	560	8.625	32	7.921	7.915	32	TRUE	32
20	560	591	8.625	32	7.921	7.941	32	TRUE	32
21	591	622	8.625	32	7.921	7.922	32	TRUE	32
22	622	651	8.625	32	7.921	7.930	32	TRUE	32
23	651	679	8.625	32	7.921	7.932	32	TRUE	32
24	679	711	8.625	32	7.921	7.909	32	TRUE	32
25	711	742	8.625	32	7.921	7.915	32	TRUE	32
26	742	774	8.625	32	7.921	7.924	32	TRUE	32
27	774	804	8.625	32	7.921	7.931	32	TRUE	32
28	804	833	8.625	32	7.921	7.910	32	TRUE	32
29	833	862	8.625	32	7.921	7.916	32	TRUE	32
30	862	892	8.625	32	7.921	7.943	32	TRUE	32
31	892	923	8.625	32	7.921	7.949	32	TRUE	32
32	923	954	8.625	32	7.921	7.942	32	TRUE	32
33	954	984	8.625	32	7.921	7.921	32	TRUE	32
34	984	1015	8.625	32	7.921	7.926	32	TRUE	32
35	1015	1046	8.625	32	7.921	7.927	32	TRUE	32
36	1046	1075	8.625	32	7.921	7.929	32	TRUE	32
37	1075	1106	8.625	32	7.921	7.930	32	TRUE	32
38	1106	1136	8.625	32	7.921	7.930	32	TRUE	32
39	1136	1166	8.625	32	7.921	7.918	32	TRUE	32
40	1166	1196	8.625	32	7.921	7.941	32	TRUE	32
41	1196	1227	8.625	32	7.921	7.923	32	TRUE	32
42	1227	1257	8.625	32	7.921	7.933	32	TRUE	32
43	1257	1288	8.625	32	7.921	7.931	32	TRUE	32
44	1288	1318	8.625	32	7.921	7.925	32	TRUE	32
45	1318	1348	8.625	32	7.921	7.935	32	TRUE	32
46	1348	1379	8.625	32	7.921	7.926	32	TRUE	32
47	1379	1399	8.625	32	7.921	7.932	32	TRUE	32

Table A.5: BM-002 detailed section information taken on August 27, 2014

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	23	8.625	32	7.921	7.925	32	TRUE	32
2	23	53	8.625	32	7.921	7.932	32	TRUE	32
3	53	84	8.625	32	7.921	7.919	32	TRUE	32
4	84	115	8.625	32	7.921	7.931	32	TRUE	32
5	115	145	8.625	32	7.921	7.930	32	TRUE	32
6	145	176	8.625	32	7.921	7.923	32	TRUE	32
7	176	204	8.625	32	7.921	7.929	32	TRUE	32
8	204	234	8.625	32	7.921	7.936	32	TRUE	32
9	234	265	8.625	32	7.921	7.944	32	TRUE	32
10	265	292	8.625	32	7.921	7.961	32	TRUE	32
11	292	323	8.625	32	7.921	7.916	32	TRUE	32
12	323	354	8.625	32	7.921	7.927	32	TRUE	32
13	354	383	8.625	32	7.921	7.929	32	TRUE	32
14	383	413	8.625	32	7.921	7.924	32	TRUE	32
15	413	442	8.625	32	7.921	7.935	32	TRUE	32
16	442	473	8.625	32	7.921	7.934	32	TRUE	32
17	473	502	8.625	32	7.921	7.938	32	TRUE	32
18	502	533	8.625	32	7.921	7.931	32	TRUE	32
19	533	563	8.625	32	7.921	7.928	32	TRUE	32
20	563	595	8.625	32	7.921	7.954	32	TRUE	32
21	595	626	8.625	32	7.921	7.935	32	TRUE	32
22	626	655	8.625	32	7.921	7.942	32	TRUE	32
23	655	683	8.625	32	7.921	7.946	32	TRUE	32
24	683	715	8.625	32	7.921	7.929	32	TRUE	32
25	715	747	8.625	32	7.921	7.932	32	TRUE	32
26	747	778	8.625	32	7.921	7.938	32	TRUE	32
27	778	808	8.625	32	7.921	7.937	32	TRUE	32
28	808	837	8.625	32	7.921	7.917	32	TRUE	32
29	837	866	8.625	32	7.921	7.922	32	TRUE	32
30	866	897	8.625	32	7.921	7.945	32	TRUE	32
31	897	927	8.625	32	7.921	7.950	32	TRUE	32
32	927	958	8.625	32	7.921	7.943	32	TRUE	32
33	958	989	8.625	32	7.921	7.916	32	TRUE	32
34	989	1019	8.625	32	7.921	7.927	32	TRUE	32
35	1019	1050	8.625	32	7.921	7.924	32	TRUE	32
36	1050	1080	8.625	32	7.921	7.926	32	TRUE	32
37	1080	1111	8.625	32	7.921	7.924	32	TRUE	32
38	1111	1140	8.625	32	7.921	7.929	32	TRUE	32
39	1140	1171	8.625	32	7.921	7.913	32	TRUE	32
40	1171	1201	8.625	32	7.921	7.940	32	TRUE	32
41	1201	1231	8.625	32	7.921	7.920	32	TRUE	32
42	1231	1262	8.625	32	7.921	7.932	32	TRUE	32
43	1262	1293	8.625	32	7.921	7.933	32	TRUE	32
44	1293	1323	8.625	32	7.921	7.919	32	TRUE	32
45	1323	1354	8.625	32	7.921	7.938	32	TRUE	32
46	1354	1384	8.625	32	7.921	7.929	32	TRUE	32
47	1384	1413	8.625	32	7.921	7.932	32	TRUE	32

A.3 Bryan Mound 002A

Table A.6: BM-002A detailed section information taken on May 10, 2012

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	8	13.375	61	12.515	12.574	54.5	TRUE	61
2	8	47	13.375	61	12.515	12.538	61	TRUE	61
3	47	90	13.375	61	12.515	12.575	54.5	TRUE	61
4	90	132	13.375	61	12.515	12.576	54.5	TRUE	61
5	132	173	13.375	61	12.515	12.558	61	TRUE	61
6	173	216	13.375	61	12.515	12.608	54.5	TRUE	61
7	216	257	13.375	61	12.515	12.577	54.5	TRUE	61
8	257	298	13.375	61	12.515	12.574	54.5	TRUE	61
9	298	341	13.375	61	12.515	12.603	54.5	TRUE	61
10	341	382	13.375	61	12.515	12.582	54.5	TRUE	61
11	382	417	13.375	61	12.515	12.574	54.5	TRUE	61
12	417	459	13.375	61	12.515	12.570	54.5	TRUE	61
13	459	500	13.375	61	12.515	12.562	61	TRUE	61
14	500	540	13.375	61	12.515	12.564	61	TRUE	61
15	540	582	13.375	61	12.515	12.582	54.5	TRUE	61
16	582	624	13.375	61	12.515	12.571	54.5	TRUE	61
17	624	666	13.375	61	12.515	12.590	54.5	TRUE	61
18	666	707	13.375	61	12.515	12.569	54.5	TRUE	61
19	707	750	13.375	61	12.515	12.588	54.5	TRUE	61
20	750	792	13.375	61	12.515	12.598	54.5	TRUE	61
21	792	834	13.375	61	12.515	12.600	54.5	TRUE	61
22	834	873	13.375	61	12.515	12.572	54.5	TRUE	61
23	873	914	13.375	61	12.515	12.576	54.5	TRUE	61
24	914	957	13.375	61	12.515	12.574	54.5	TRUE	61
25	957	999	13.375	61	12.515	12.573	54.5	TRUE	61
26	999	1041	13.375	61	12.515	12.590	54.5	TRUE	61
27	1041	1084	13.375	61	12.515	12.565	54.5	TRUE	61
28	1084	1122	13.375	61	12.515	12.586	54.5	TRUE	61
29	1122	1165	13.375	61	12.515	12.585	54.5	TRUE	61
30	1165	1206	13.375	61	12.515	12.573	54.5	TRUE	61
31	1206	1248	13.375	61	12.515	12.529	61	TRUE	61
32	1248	1289	13.375	61	12.515	12.587	54.5	TRUE	61
33	1289	1334	13.375	61	12.515	12.563	61	TRUE	61
34	1334	1379	13.375	61	12.515	12.569	54.5	TRUE	61

A.4 Bryan Mound 004A

Table A.7: BM-004A detailed section information taken on August 12, 2009

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	44	13.375	61	12.515	12.673	48	FALSE	48
2	44	85	13.375	61	12.515	12.644	54.5	FALSE	54.5
3	85	126	13.375	61	12.515	12.651	54.5	FALSE	54.5
4	126	166	13.375	61	12.515	12.657	54.5	FALSE	54.5
5	166	206	13.375	61	12.515	12.654	54.5	FALSE	54.5
6	206	248	13.375	61	12.515	12.674	48	FALSE	48
7	248	290	13.375	61	12.515	12.653	54.5	FALSE	54.5
8	290	330	13.375	61	12.515	12.622	54.5	TRUE	61
9	330	372	13.375	61	12.515	12.641	54.5	FALSE	54.5
10	372	412	13.375	61	12.515	12.629	54.5	FALSE	54.5
11	412	450	13.375	61	12.515	12.654	54.5	FALSE	54.5
12	450	490	13.375	61	12.515	12.635	54.5	FALSE	54.5
13	490	531	13.375	61	12.515	12.648	54.5	FALSE	54.5
14	531	567	13.375	61	12.515	12.583	54.5	TRUE	61
15	567	602	13.375	61	12.515	12.645	54.5	FALSE	54.5
16	602	639	13.375	61	12.515	12.634	54.5	FALSE	54.5
17	639	676	13.375	61	12.515	12.670	48	FALSE	48
18	676	712	13.375	61	12.515	12.689	48	FALSE	48
19	712	754	13.375	61	12.515	12.637	54.5	FALSE	54.5
20	754	792	13.375	61	12.515	12.655	54.5	FALSE	54.5
21	792	833	13.375	61	12.515	12.639	54.5	FALSE	54.5
22	833	875	13.375	61	12.515	12.639	54.5	FALSE	54.5
23	875	917	13.375	61	12.515	12.647	54.5	FALSE	54.5
24	917	958	13.375	61	12.515	12.634	54.5	FALSE	54.5
25	958	1000	13.375	61	12.515	12.646	54.5	FALSE	54.5
26	1000	1042	13.375	61	12.515	12.651	54.5	FALSE	54.5
27	1042	1082	13.375	61	12.515	12.638	54.5	FALSE	54.5
28	1082	1124	13.375	61	12.515	12.642	54.5	FALSE	54.5
29	1124	1166	13.375	61	12.515	12.637	54.5	FALSE	54.5
30	1166	1208	13.375	61	12.515	12.627	54.5	FALSE	54.5
31	1208	1246	13.375	61	12.515	12.699	48	FALSE	48
32	1246	1287	13.375	61	12.515	12.639	54.5	FALSE	54.5
33	1287	1330	13.375	61	12.515	12.685	48	FALSE	48
34	1330	1372	13.375	61	12.515	12.666	48	FALSE	48
35	1372	1414	13.375	61	12.515	12.660	54.5	FALSE	54.5
36	1414	1455	13.375	61	12.515	12.645	54.5	FALSE	54.5
37	1455	1498	13.375	61	12.515	12.639	54.5	FALSE	54.5
38	1498	1539	13.375	61	12.515	12.620	54.5	TRUE	61
39	1539	1573	13.375	61	12.515	12.687	48	FALSE	48
40	1573	1615	13.375	61	12.515	12.645	54.5	FALSE	54.5
41	1615	1657	13.375	61	12.515	12.637	54.5	FALSE	54.5
42	1657	1699	13.375	61	12.515	12.669	48	FALSE	48
43	1699	1741	13.375	61	12.515	12.657	54.5	FALSE	54.5
44	1741	1783	13.375	61	12.515	12.648	54.5	FALSE	54.5
45	1783	1825	13.375	61	12.515	12.667	48	FALSE	48
46	1825	1865	13.375	61	12.515	12.633	54.5	FALSE	54.5
47	1865	1903	13.375	61	12.515	12.643	54.5	FALSE	54.5
48	1903	1941	13.375	61	12.515	12.637	54.5	FALSE	54.5
49	1941	1976	13.375	61	12.515	12.654	54.5	FALSE	54.5

A.5 Bryan Mound 004B

Table A.8: BM-004B detailed section information taken on March 19, 2014

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	24	13.375	61	12.515	12.524	61	TRUE	61
2	24	65	13.375	61	12.515	12.552	61	TRUE	61
3	65	107	13.375	61	12.515	12.527	61	TRUE	61
4	107	149	13.375	61	12.515	12.539	61	TRUE	61
5	149	186	13.375	61	12.515	12.542	61	TRUE	61
6	186	228	13.375	61	12.515	12.566	54.5	TRUE	61
7	228	270	13.375	61	12.515	12.562	61	TRUE	61
8	270	312	13.375	61	12.515	12.558	61	TRUE	61
9	312	353	13.375	61	12.515	12.544	61	TRUE	61
10	353	395	13.375	61	12.515	12.509	61	TRUE	61
11	395	436	13.375	61	12.515	12.552	61	TRUE	61
12	436	471	13.375	61	12.515	12.552	61	TRUE	61
13	471	513	13.375	61	12.515	12.579	54.5	TRUE	61
14	513	555	13.375	61	12.515	12.546	61	TRUE	61
15	555	597	13.375	61	12.515	12.559	61	TRUE	61
16	597	636	13.375	61	12.515	12.567	54.5	TRUE	61
17	636	676	13.375	61	12.515	12.633	54.5	FALSE	54.5
18	676	718	13.375	61	12.515	12.564	61	TRUE	61
19	718	758	13.375	61	12.515	12.578	54.5	TRUE	61
20	758	799	13.375	61	12.515	12.577	54.5	TRUE	61
21	799	841	13.375	61	12.515	12.579	54.5	TRUE	61
22	841	878	13.375	61	12.515	12.571	54.5	TRUE	61
23	878	920	13.375	61	12.515	12.572	54.5	TRUE	61
24	920	962	13.375	61	12.515	12.570	54.5	TRUE	61
25	962	1004	13.375	61	12.515	12.579	54.5	TRUE	61
26	1004	1043	13.375	61	12.515	12.564	61	TRUE	61
27	1043	1089	13.375	61	12.515	12.596	54.5	TRUE	61
28	1089	1130	13.375	61	12.515	12.558	61	TRUE	61
29	1130	1172	13.375	61	12.515	12.535	61	TRUE	61
30	1172	1210	13.375	61	12.515	12.573	54.5	TRUE	61
31	1210	1251	13.375	61	12.515	12.569	54.5	TRUE	61
32	1251	1289	13.375	61	12.515	12.556	61	TRUE	61
33	1289	1330	13.375	61	12.515	12.546	61	TRUE	61
34	1330	1371	13.375	61	12.515	12.550	61	TRUE	61
35	1371	1409	13.375	61	12.515	12.596	54.5	TRUE	61
36	1409	1449	13.375	61	12.515	12.579	54.5	TRUE	61
37	1449	1491	13.375	61	12.515	12.569	54.5	TRUE	61
38	1491	1530	13.375	61	12.515	12.551	61	TRUE	61
39	1530	1571	13.375	61	12.515	12.559	61	TRUE	61
40	1571	1614	13.375	61	12.515	12.566	54.5	TRUE	61
41	1614	1655	13.375	61	12.515	12.561	61	TRUE	61
42	1655	1694	13.375	61	12.515	12.533	61	TRUE	61
43	1694	1736	13.375	61	12.515	12.560	61	TRUE	61
44	1736	1770	13.375	61	12.515	12.548	61	TRUE	61
45	1770	1811	13.375	61	12.515	12.546	61	TRUE	61
46	1811	1854	13.375	61	12.515	12.554	61	TRUE	61
47	1854	1895	13.375	61	12.515	12.530	61	TRUE	61
48	1895	1937	13.375	61	12.515	12.566	54.5	TRUE	61
49	1937	1980	13.375	61	12.515	12.566	54.5	TRUE	61
50	1980	2020	13.375	61	12.515	12.533	61	TRUE	61
51	2020	2062	13.375	61	12.515	12.566	54.5	TRUE	61

Table A.9: BM-004B detailed section information taken on May 2, 2014

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	53	10.75	51	9.85	9.901	45.5	TRUE	51
2	53	97	10.75	51	9.85	9.914	45.5	TRUE	51
3	97	140	10.75	51	9.85	9.916	45.5	TRUE	51
4	140	184	10.75	51	9.85	9.915	45.5	TRUE	51
5	184	227	10.75	51	9.85	9.914	45.5	TRUE	51
6	227	269	10.75	51	9.85	9.917	45.5	TRUE	51
7	269	313	10.75	51	9.85	9.908	45.5	TRUE	51
8	313	354	10.75	51	9.85	9.912	45.5	TRUE	51
9	354	397	10.75	51	9.85	9.915	45.5	TRUE	51
10	397	439	10.75	51	9.85	9.906	45.5	TRUE	51
11	439	483	10.75	51	9.85	9.922	45.5	TRUE	51
12	483	526	10.75	51	9.85	9.912	45.5	TRUE	51
13	526	569	10.75	51	9.85	9.908	45.5	TRUE	51
14	569	613	10.75	51	9.85	9.916	45.5	TRUE	51
15	613	656	10.75	51	9.85	9.908	45.5	TRUE	51
16	656	699	10.75	51	9.85	9.909	45.5	TRUE	51
17	699	742	10.75	51	9.85	9.913	45.5	TRUE	51
18	742	784	10.75	51	9.85	9.917	45.5	TRUE	51
19	784	825	10.75	51	9.85	9.925	45.5	TRUE	51
20	825	868	10.75	51	9.85	9.910	45.5	TRUE	51
21	868	911	10.75	51	9.85	9.916	45.5	TRUE	51
22	911	954	10.75	51	9.85	9.918	45.5	TRUE	51
23	954	992	10.75	51	9.85	9.911	45.5	TRUE	51
24	992	1040	10.75	51	9.85	9.923	45.5	TRUE	51
25	1040	1083	10.75	51	9.85	9.915	45.5	TRUE	51
26	1083	1126	10.75	51	9.85	9.918	45.5	TRUE	51
27	1126	1168	10.75	51	9.85	9.920	45.5	TRUE	51
28	1168	1210	10.75	51	9.85	9.919	45.5	TRUE	51
29	1210	1256	10.75	51	9.85	9.908	45.5	TRUE	51
30	1256	1298	10.75	51	9.85	9.913	45.5	TRUE	51
31	1298	1342	10.75	51	9.85	9.911	45.5	TRUE	51
32	1342	1385	10.75	51	9.85	9.914	45.5	TRUE	51
33	1385	1429	10.75	51	9.85	9.922	45.5	TRUE	51
34	1429	1473	10.75	51	9.85	9.906	45.5	TRUE	51
35	1473	1519	10.75	51	9.85	9.914	45.5	TRUE	51
36	1519	1561	10.75	51	9.85	9.920	45.5	TRUE	51
37	1561	1604	10.75	51	9.85	9.914	45.5	TRUE	51
38	1604	1646	10.75	51	9.85	9.913	45.5	TRUE	51
39	1646	1690	10.75	51	9.85	9.923	45.5	TRUE	51
40	1690	1735	10.75	51	9.85	9.907	45.5	TRUE	51
41	1735	1778	10.75	51	9.85	9.913	45.5	TRUE	51
42	1778	1821	10.75	51	9.85	9.917	45.5	TRUE	51
43	1821	1865	10.75	51	9.85	9.921	45.5	TRUE	51
44	1865	1907	10.75	51	9.85	9.917	45.5	TRUE	51
45	1907	1950	10.75	51	9.85	9.907	45.5	TRUE	51
46	1950	1994	10.75	51	9.85	9.904	45.5	TRUE	51
47	1994	2027	10.75	51	9.85	9.712	55.5	FALSE	55.5

A.6 Bryan Mound 004C

Table A.10: BM-004C detailed section information taken on May 22, 2014

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	35	13.375	68	12.415	12.609	54.5	FALSE	54.5
2	35	75	13.375	68	12.415	12.632	54.5	FALSE	54.5
3	75	118	13.375	68	12.415	12.634	54.5	FALSE	54.5
4	118	159	13.375	68	12.415	12.619	54.5	FALSE	54.5
5	159	201	13.375	68	12.415	12.650	54.5	FALSE	54.5
6	201	241	13.375	68	12.415	12.605	54.5	FALSE	54.5
7	241	283	13.375	68	12.415	12.622	54.5	FALSE	54.5
8	283	318	13.375	68	12.415	12.644	54.5	FALSE	54.5
9	318	356	13.375	68	12.415	12.598	54.5	FALSE	54.5
10	356	397	13.375	68	12.415	12.612	54.5	FALSE	54.5
11	397	438	13.375	68	12.415	12.625	54.5	FALSE	54.5
12	438	475	13.375	68	12.415	12.613	54.5	FALSE	54.5
13	475	518	13.375	68	12.415	12.646	54.5	FALSE	54.5
14	518	554	13.375	68	12.415	12.645	54.5	FALSE	54.5
15	554	596	13.375	68	12.415	12.649	54.5	FALSE	54.5
16	596	637	13.375	68	12.415	12.665	48	FALSE	48
17	637	674	13.375	68	12.415	12.634	54.5	FALSE	54.5
18	674	716	13.375	68	12.415	12.668	48	FALSE	48
19	716	758	13.375	68	12.415	12.657	54.5	FALSE	54.5
20	758	797	13.375	68	12.415	12.638	54.5	FALSE	54.5
21	797	838	13.375	68	12.415	12.666	48	FALSE	48
22	838	880	13.375	68	12.415	12.667	48	FALSE	48
23	880	921	13.375	68	12.415	12.663	54.5	FALSE	54.5
24	921	962	13.375	68	12.415	12.666	48	FALSE	48
25	962	1003	13.375	68	12.415	12.653	54.5	FALSE	54.5
26	1003	1045	13.375	68	12.415	12.669	48	FALSE	48
27	1045	1084	13.375	68	12.415	12.668	48	FALSE	48
28	1084	1120	13.375	68	12.415	12.632	54.5	FALSE	54.5
29	1120	1162	13.375	68	12.415	12.655	54.5	FALSE	54.5
30	1162	1203	13.375	68	12.415	12.657	54.5	FALSE	54.5
31	1203	1245	13.375	68	12.415	12.658	54.5	FALSE	54.5
32	1245	1288	13.375	68	12.415	12.669	48	FALSE	48
33	1288	1328	13.375	68	12.415	12.654	54.5	FALSE	54.5
34	1328	1368	13.375	68	12.415	12.648	54.5	FALSE	54.5
35	1368	1411	13.375	68	12.415	12.621	54.5	FALSE	54.5
36	1411	1454	13.375	68	12.415	12.623	54.5	FALSE	54.5
37	1454	1496	13.375	68	12.415	12.598	54.5	FALSE	54.5
38	1496	1538	13.375	68	12.415	12.637	54.5	FALSE	54.5
39	1538	1581	13.375	68	12.415	12.612	54.5	FALSE	54.5
40	1581	1624	13.375	68	12.415	12.608	54.5	FALSE	54.5
41	1624	1665	13.375	68	12.415	12.588	54.5	FALSE	54.5
42	1665	1708	13.375	68	12.415	12.613	54.5	FALSE	54.5
43	1708	1751	13.375	68	12.415	12.634	54.5	FALSE	54.5
44	1751	1794	13.375	68	12.415	12.619	54.5	FALSE	54.5
45	1794	1836	13.375	68	12.415	12.618	54.5	FALSE	54.5
46	1836	1877	13.375	68	12.415	12.788	48	FALSE	48
47	1877	1919	13.375	68	12.415	12.802	48	FALSE	48
48	1919	1944	13.375	68	12.415	12.542	61	FALSE	61

A.7 Bryan Mound 005

Table A.11: BM-005 detailed section information taken on November 25, 2015

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	35	13.375	68	12.415	12.609	54.5	FALSE	54.5
2	35	75	13.375	68	12.415	12.632	54.5	FALSE	54.5
3	75	118	13.375	68	12.415	12.634	54.5	FALSE	54.5
4	118	159	13.375	68	12.415	12.619	54.5	FALSE	54.5
5	159	201	13.375	68	12.415	12.650	54.5	FALSE	54.5
6	201	241	13.375	68	12.415	12.605	54.5	FALSE	54.5
7	241	283	13.375	68	12.415	12.622	54.5	FALSE	54.5
8	283	318	13.375	68	12.415	12.644	54.5	FALSE	54.5
9	318	356	13.375	68	12.415	12.598	54.5	FALSE	54.5
10	356	397	13.375	68	12.415	12.612	54.5	FALSE	54.5
11	397	438	13.375	68	12.415	12.625	54.5	FALSE	54.5
12	438	475	13.375	68	12.415	12.613	54.5	FALSE	54.5
13	475	518	13.375	68	12.415	12.646	54.5	FALSE	54.5
14	518	554	13.375	68	12.415	12.645	54.5	FALSE	54.5
15	554	596	13.375	68	12.415	12.649	54.5	FALSE	54.5
16	596	637	13.375	68	12.415	12.665	48	FALSE	48
17	637	674	13.375	68	12.415	12.634	54.5	FALSE	54.5
18	674	716	13.375	68	12.415	12.668	48	FALSE	48
19	716	758	13.375	68	12.415	12.657	54.5	FALSE	54.5
20	758	797	13.375	68	12.415	12.638	54.5	FALSE	54.5
21	797	838	13.375	68	12.415	12.666	48	FALSE	48
22	838	880	13.375	68	12.415	12.667	48	FALSE	48
23	880	921	13.375	68	12.415	12.663	54.5	FALSE	54.5
24	921	962	13.375	68	12.415	12.666	48	FALSE	48
25	962	1003	13.375	68	12.415	12.653	54.5	FALSE	54.5
26	1003	1045	13.375	68	12.415	12.669	48	FALSE	48
27	1045	1084	13.375	68	12.415	12.668	48	FALSE	48
28	1084	1120	13.375	68	12.415	12.632	54.5	FALSE	54.5
29	1120	1162	13.375	68	12.415	12.655	54.5	FALSE	54.5
30	1162	1203	13.375	68	12.415	12.657	54.5	FALSE	54.5
31	1203	1245	13.375	68	12.415	12.658	54.5	FALSE	54.5
32	1245	1288	13.375	68	12.415	12.669	48	FALSE	48
33	1288	1328	13.375	68	12.415	12.654	54.5	FALSE	54.5
34	1328	1368	13.375	68	12.415	12.648	54.5	FALSE	54.5
35	1368	1411	13.375	68	12.415	12.621	54.5	FALSE	54.5
36	1411	1454	13.375	68	12.415	12.623	54.5	FALSE	54.5
37	1454	1496	13.375	68	12.415	12.598	54.5	FALSE	54.5
38	1496	1538	13.375	68	12.415	12.637	54.5	FALSE	54.5
39	1538	1581	13.375	68	12.415	12.612	54.5	FALSE	54.5
40	1581	1624	13.375	68	12.415	12.608	54.5	FALSE	54.5
41	1624	1665	13.375	68	12.415	12.588	54.5	FALSE	54.5
42	1665	1708	13.375	68	12.415	12.613	54.5	FALSE	54.5
43	1708	1751	13.375	68	12.415	12.634	54.5	FALSE	54.5
44	1751	1794	13.375	68	12.415	12.619	54.5	FALSE	54.5
45	1794	1836	13.375	68	12.415	12.618	54.5	FALSE	54.5
46	1836	1877	13.375	68	12.415	12.788	48	FALSE	48
47	1877	1919	13.375	68	12.415	12.802	48	FALSE	48
48	1919	1944	13.375	68	12.415	12.542	61	FALSE	61

A.8 Bryan Mound 005A

Table A.12: BM-005A detailed section information taken on August 25, 2009

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	33	13.375	54.5	12.615	12.724	48	FALSE	48
2	33	76	13.375	54.5	12.615	12.741	48	FALSE	48
3	76	118	13.375	54.5	12.615	12.734	48	FALSE	48
4	118	161	13.375	54.5	12.615	12.758	48	FALSE	48
5	161	204	13.375	54.5	12.615	12.721	48	FALSE	48
6	204	247	13.375	54.5	12.615	12.758	48	FALSE	48
7	247	290	13.375	54.5	12.615	12.723	48	FALSE	48
8	290	332	13.375	54.5	12.615	12.727	48	FALSE	48
9	332	375	13.375	54.5	12.615	12.727	48	FALSE	48
10	375	417	13.375	54.5	12.615	12.721	48	FALSE	48
11	417	460	13.375	54.5	12.615	12.744	48	FALSE	48
12	460	504	13.375	54.5	12.615	12.749	48	FALSE	48
13	504	545	13.375	54.5	12.615	12.721	48	FALSE	48
14	545	586	13.375	54.5	12.615	12.735	48	FALSE	48
15	586	627	13.375	54.5	12.615	12.707	48	TRUE	54.5
16	627	668	13.375	54.5	12.615	12.691	48	TRUE	54.5
17	668	710	13.375	54.5	12.615	12.715	48	FALSE	48
18	710	751	13.375	54.5	12.615	12.694	48	TRUE	54.5
19	751	789	13.375	54.5	12.615	12.726	48	FALSE	48
20	789	827	13.375	54.5	12.615	12.732	48	FALSE	48
21	827	864	13.375	54.5	12.615	12.739	48	FALSE	48
22	864	906	13.375	54.5	12.615	12.728	48	FALSE	48
23	906	950	13.375	54.5	12.615	12.738	48	FALSE	48
24	950	992	13.375	54.5	12.615	12.719	48	FALSE	48
25	992	1035	13.375	54.5	12.615	12.717	48	FALSE	48
26	1035	1077	13.375	54.5	12.615	12.712	48	FALSE	48
27	1077	1119	13.375	54.5	12.615	12.735	48	FALSE	48
28	1119	1161	13.375	54.5	12.615	12.694	48	TRUE	54.5
29	1161	1202	13.375	54.5	12.615	12.690	48	TRUE	54.5
30	1202	1244	13.375	54.5	12.615	12.694	48	TRUE	54.5
31	1244	1286	13.375	54.5	12.615	12.705	48	TRUE	54.5
32	1286	1328	13.375	54.5	12.615	12.695	48	TRUE	54.5
33	1328	1370	13.375	54.5	12.615	12.702	48	TRUE	54.5
34	1370	1411	13.375	54.5	12.615	12.720	48	FALSE	48
35	1411	1449	13.375	54.5	12.615	12.742	48	FALSE	48
36	1449	1490	13.375	54.5	12.615	12.713	48	FALSE	48
37	1490	1529	13.375	54.5	12.615	12.761	48	FALSE	48
38	1529	1571	13.375	54.5	12.615	12.712	48	FALSE	48
39	1571	1612	13.375	54.5	12.615	12.707	48	TRUE	54.5
40	1612	1652	13.375	54.5	12.615	12.707	48	TRUE	54.5
41	1652	1694	13.375	54.5	12.615	12.692	48	TRUE	54.5
42	1694	1736	13.375	54.5	12.615	12.716	48	FALSE	48
43	1736	1773	13.375	54.5	12.615	12.682	48	TRUE	54.5
44	1773	1815	13.375	54.5	12.615	12.717	48	FALSE	48
45	1815	1858	13.375	54.5	12.615	12.719	48	FALSE	48
46	1858	1897	13.375	54.5	12.615	12.671	48	TRUE	54.5
47	1897	1940	13.375	54.5	12.615	12.686	48	TRUE	54.5
48	1940	1980	13.375	54.5	12.615	12.683	48	TRUE	54.5
49	1980	2023	13.375	54.5	12.615	12.719	48	FALSE	48

Table A.13: BM-005A detailed section information taken on August 26, 2014

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	29	13.375	54.5	12.615	12.636	54.5	TRUE	54.5
2	29	72	13.375	54.5	12.615	12.655	54.5	TRUE	54.5
3	72	114	13.375	54.5	12.615	12.650	54.5	TRUE	54.5
4	114	157	13.375	54.5	12.615	12.674	48	TRUE	54.5
5	157	200	13.375	54.5	12.615	12.645	54.5	TRUE	54.5
6	200	243	13.375	54.5	12.615	12.689	48	TRUE	54.5
7	243	286	13.375	54.5	12.615	12.658	54.5	TRUE	54.5
8	286	329	13.375	54.5	12.615	12.664	54.5	TRUE	54.5
9	329	371	13.375	54.5	12.615	12.664	54.5	TRUE	54.5
10	371	414	13.375	54.5	12.615	12.666	48	TRUE	54.5
11	414	457	13.375	54.5	12.615	12.693	48	TRUE	54.5
12	457	500	13.375	54.5	12.615	12.703	48	TRUE	54.5
13	500	542	13.375	54.5	12.615	12.677	48	TRUE	54.5
14	542	583	13.375	54.5	12.615	12.692	48	TRUE	54.5
15	583	624	13.375	54.5	12.615	12.669	48	TRUE	54.5
16	624	666	13.375	54.5	12.615	12.653	54.5	TRUE	54.5
17	666	707	13.375	54.5	12.615	12.681	48	TRUE	54.5
18	707	749	13.375	54.5	12.615	12.662	54.5	TRUE	54.5
19	749	787	13.375	54.5	12.615	12.688	48	TRUE	54.5
20	787	825	13.375	54.5	12.615	12.687	48	TRUE	54.5
21	825	862	13.375	54.5	12.615	12.691	48	TRUE	54.5
22	862	904	13.375	54.5	12.615	12.679	48	TRUE	54.5
23	904	948	13.375	54.5	12.615	12.677	48	TRUE	54.5
24	948	991	13.375	54.5	12.615	12.666	48	TRUE	54.5
25	991	1033	13.375	54.5	12.615	12.662	54.5	TRUE	54.5
26	1033	1075	13.375	54.5	12.615	12.658	54.5	TRUE	54.5
27	1075	1118	13.375	54.5	12.615	12.674	48	TRUE	54.5
28	1118	1160	13.375	54.5	12.615	12.636	54.5	TRUE	54.5
29	1160	1201	13.375	54.5	12.615	12.637	54.5	TRUE	54.5
30	1201	1243	13.375	54.5	12.615	12.626	54.5	TRUE	54.5
31	1243	1285	13.375	54.5	12.615	12.640	54.5	TRUE	54.5
32	1285	1327	13.375	54.5	12.615	12.636	54.5	TRUE	54.5
33	1327	1369	13.375	54.5	12.615	12.641	54.5	TRUE	54.5
34	1369	1411	13.375	54.5	12.615	12.658	54.5	TRUE	54.5
35	1411	1450	13.375	54.5	12.615	12.672	48	TRUE	54.5
36	1450	1492	13.375	54.5	12.615	12.651	54.5	TRUE	54.5
37	1492	1530	13.375	54.5	12.615	12.688	48	TRUE	54.5
38	1530	1572	13.375	54.5	12.615	12.644	54.5	TRUE	54.5
39	1572	1613	13.375	54.5	12.615	12.642	54.5	TRUE	54.5
40	1613	1653	13.375	54.5	12.615	12.633	54.5	TRUE	54.5
41	1653	1695	13.375	54.5	12.615	12.626	54.5	TRUE	54.5
42	1695	1737	13.375	54.5	12.615	12.646	54.5	TRUE	54.5
43	1737	1775	13.375	54.5	12.615	12.613	54.5	TRUE	54.5
44	1775	1817	13.375	54.5	12.615	12.650	54.5	TRUE	54.5
45	1817	1859	13.375	54.5	12.615	12.654	54.5	TRUE	54.5
46	1859	1899	13.375	54.5	12.615	12.610	54.5	TRUE	54.5
47	1899	1941	13.375	54.5	12.615	12.623	54.5	TRUE	54.5
48	1941	1983	13.375	54.5	12.615	12.620	54.5	TRUE	54.5
49	1983	2026	13.375	54.5	12.615	12.657	54.5	TRUE	54.5

A.9 Bryan Mound 005C

Table A.14: BM-005C detailed section information taken on July 7, 2010

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	88	13.375	54.5	12.615	12.633	54.5	TRUE	54.5
2	88	127	13.375	54.5	12.615	12.653	54.5	TRUE	54.5
3	127	168	13.375	54.5	12.615	12.650	54.5	TRUE	54.5
4	168	209	13.375	54.5	12.615	12.673	48	TRUE	54.5
5	209	248	13.375	54.5	12.615	12.641	54.5	TRUE	54.5
6	248	283	13.375	54.5	12.615	12.665	54.5	TRUE	54.5
7	283	321	13.375	54.5	12.615	12.650	54.5	TRUE	54.5
8	321	364	13.375	54.5	12.615	12.653	54.5	TRUE	54.5
9	364	401	13.375	54.5	12.615	12.630	54.5	TRUE	54.5
10	401	439	13.375	54.5	12.615	12.648	54.5	TRUE	54.5
11	439	475	13.375	54.5	12.615	12.634	54.5	TRUE	54.5
12	475	513	13.375	54.5	12.615	12.641	54.5	TRUE	54.5
13	513	551	13.375	54.5	12.615	12.626	54.5	TRUE	54.5
14	551	591	13.375	54.5	12.615	12.643	54.5	TRUE	54.5
15	591	633	13.375	54.5	12.615	12.663	54.5	TRUE	54.5
16	633	675	13.375	54.5	12.615	12.634	54.5	TRUE	54.5
17	675	716	13.375	54.5	12.615	12.618	54.5	TRUE	54.5
18	716	752	13.375	54.5	12.615	12.628	54.5	TRUE	54.5
19	752	788	13.375	54.5	12.615	12.619	54.5	TRUE	54.5
20	788	824	13.375	54.5	12.615	12.627	54.5	TRUE	54.5
21	824	859	13.375	54.5	12.615	12.601	54.5	TRUE	54.5
22	859	902	13.375	54.5	12.615	12.548	61	TRUE	54.5
23	902	943	13.375	54.5	12.615	12.548	61	TRUE	54.5
24	943	986	13.375	54.5	12.615	12.561	61	TRUE	54.5
25	986	1023	13.375	54.5	12.615	12.643	54.5	TRUE	54.5
26	1023	1065	13.375	54.5	12.615	12.546	61	TRUE	54.5
27	1065	1106	13.375	54.5	12.615	12.564	61	TRUE	54.5
28	1106	1146	13.375	54.5	12.615	12.552	61	TRUE	54.5
29	1146	1188	13.375	54.5	12.615	12.564	61	TRUE	54.5
30	1188	1230	13.375	54.5	12.615	12.537	61	TRUE	54.5
31	1230	1266	13.375	54.5	12.615	12.641	54.5	TRUE	54.5
32	1266	1301	13.375	54.5	12.615	12.621	54.5	TRUE	54.5
33	1301	1335	13.375	54.5	12.615	12.639	54.5	TRUE	54.5
34	1335	1371	13.375	54.5	12.615	12.498	61	FALSE	61
35	1371	1413	13.375	54.5	12.615	12.618	54.5	TRUE	54.5
36	1413	1451	13.375	54.5	12.615	12.623	54.5	TRUE	54.5
37	1451	1491	13.375	54.5	12.615	12.562	61	TRUE	54.5
38	1491	1530	13.375	54.5	12.615	12.628	54.5	TRUE	54.5
39	1530	1568	13.375	54.5	12.615	12.605	54.5	TRUE	54.5
40	1568	1608	13.375	54.5	12.615	12.603	54.5	TRUE	54.5
41	1608	1655	13.375	54.5	12.615	12.613	54.5	TRUE	54.5
42	1655	1684	13.375	54.5	12.615	12.598	54.5	TRUE	54.5
43	1684	1722	13.375	54.5	12.615	12.606	54.5	TRUE	54.5
44	1722	1763	13.375	54.5	12.615	12.649	54.5	TRUE	54.5
45	1763	1804	13.375	54.5	12.615	12.680	48	TRUE	54.5
46	1804	1845	13.375	54.5	12.615	12.656	54.5	TRUE	54.5
47	1845	1887	13.375	54.5	12.615	12.636	54.5	TRUE	54.5
48	1887	1924	13.375	54.5	12.615	12.613	54.5	TRUE	54.5
49	1983	2026	13.375	54.5	12.615	12.657	54.5	TRUE	54.5

Table A.15: BM-005C detailed section information taken on April 11, 2017

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	46	13.375	54.5	12.615	12.602	54.5	TRUE	54.5
2	46	89	13.375	54.5	12.615	12.606	54.5	TRUE	54.5
3	89	130	13.375	54.5	12.615	12.621	54.5	TRUE	54.5
4	130	169	13.375	54.5	12.615	12.602	54.5	TRUE	54.5
5	169	210	13.375	54.5	12.615	12.631	54.5	TRUE	54.5
6	210	249	13.375	54.5	12.615	12.604	54.5	TRUE	54.5
7	249	285	13.375	54.5	12.615	12.622	54.5	TRUE	54.5
8	285	323	13.375	54.5	12.615	12.617	54.5	TRUE	54.5
9	323	366	13.375	54.5	12.615	12.621	54.5	TRUE	54.5
10	366	403	13.375	54.5	12.615	12.611	54.5	TRUE	54.5
11	403	441	13.375	54.5	12.615	12.626	54.5	TRUE	54.5
12	441	477	13.375	54.5	12.615	12.618	54.5	TRUE	54.5
13	477	515	13.375	54.5	12.615	12.621	54.5	TRUE	54.5
14	515	554	13.375	54.5	12.615	12.599	54.5	TRUE	54.5
15	554	593	13.375	54.5	12.615	12.623	54.5	TRUE	54.5
16	593	635	13.375	54.5	12.615	12.634	54.5	TRUE	54.5
17	635	678	13.375	54.5	12.615	12.621	54.5	TRUE	54.5
18	678	719	13.375	54.5	12.615	12.608	54.5	TRUE	54.5
19	719	755	13.375	54.5	12.615	12.620	54.5	TRUE	54.5
20	755	791	13.375	54.5	12.615	12.608	54.5	TRUE	54.5
21	791	827	13.375	54.5	12.615	12.611	54.5	TRUE	54.5
22	827	862	13.375	54.5	12.615	12.620	54.5	TRUE	54.5
23	862	905	13.375	54.5	12.615	12.549	61	TRUE	54.5
24	905	946	13.375	54.5	12.615	12.546	61	TRUE	54.5
25	946	989	13.375	54.5	12.615	12.559	61	TRUE	54.5
26	989	1026	13.375	54.5	12.615	12.644	54.5	TRUE	54.5
27	1026	1068	13.375	54.5	12.615	12.547	61	TRUE	54.5
28	1068	1109	13.375	54.5	12.615	12.542	61	TRUE	54.5
29	1109	1149	13.375	54.5	12.615	12.553	61	TRUE	54.5
30	1149	1192	13.375	54.5	12.615	12.558	61	TRUE	54.5
31	1192	1234	13.375	54.5	12.615	12.531	61	TRUE	54.5
32	1234	1270	13.375	54.5	12.615	12.636	54.5	TRUE	54.5
33	1270	1305	13.375	54.5	12.615	12.625	54.5	TRUE	54.5
34	1305	1339	13.375	54.5	12.615	12.647	54.5	TRUE	54.5
35	1339	1375	13.375	54.5	12.615	12.507	61	FALSE	61
36	1375	1417	13.375	54.5	12.615	12.658	54.5	TRUE	54.5
37	1417	1455	13.375	54.5	12.615	12.648	54.5	TRUE	54.5
38	1455	1495	13.375	54.5	12.615	12.602	54.5	TRUE	54.5
39	1495	1534	13.375	54.5	12.615	12.651	54.5	TRUE	54.5
40	1534	1572	13.375	54.5	12.615	12.606	54.5	TRUE	54.5
41	1572	1613	13.375	54.5	12.615	12.633	54.5	TRUE	54.5
42	1613	1654	13.375	54.5	12.615	12.633	54.5	TRUE	54.5
43	1654	1689	13.375	54.5	12.615	12.609	54.5	TRUE	54.5
44	1689	1727	13.375	54.5	12.615	12.627	54.5	TRUE	54.5
45	1727	1768	13.375	54.5	12.615	12.640	54.5	TRUE	54.5
46	1768	1808	13.375	54.5	12.615	12.659	54.5	TRUE	54.5
47	1808	1849	13.375	54.5	12.615	12.640	54.5	TRUE	54.5
48	1849	1892	13.375	54.5	12.615	12.614	54.5	TRUE	54.5
49	1892	1921	13.375	54.5	12.615	12.632	54.5	TRUE	54.5
50	1921	1928	13.375	54.5	12.615	12.623	54.5	TRUE	54.5

A.10 Bryan Mound 101A

Table A.16: BM-101A detailed section information taken on May 03, 2011

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	16	56	16	84	15.01	15.172	75	FALSE	75
2	56	97	16	84	15.01	15.177	75	FALSE	75
3	97	139	16	84	15.01	15.180	75	FALSE	75
4	139	181	16	84	15.01	15.201	65	FALSE	65
5	181	221	16	84	15.01	15.159	75	FALSE	75
6	221	263	16	84	15.01	15.179	75	FALSE	75
7	263	305	16	84	15.01	15.149	75	FALSE	75
8	305	340	16	84	15.01	15.147	75	FALSE	75
9	340	376	16	84	15.01	15.152	75	FALSE	75
10	376	416	16	84	15.01	15.134	75	TRUE	84
11	416	458	16	84	15.01	15.180	75	FALSE	75
12	458	493	16	84	15.01	15.147	75	FALSE	75
13	493	533	16	84	15.01	15.140	75	FALSE	75
14	533	573	16	84	15.01	15.187	75	FALSE	75
15	573	613	16	84	15.01	15.129	75	TRUE	84
16	613	652	16	84	15.01	15.146	75	FALSE	75
17	652	695	16	84	15.01	15.188	65	FALSE	65
18	695	736	16	84	15.01	15.149	75	FALSE	75
19	736	775	16	84	15.01	15.180	75	FALSE	75
20	775	816	16	84	15.01	15.164	75	FALSE	75
21	816	858	16	84	15.01	15.165	75	FALSE	75
22	858	895	16	84	15.01	15.156	75	FALSE	75
23	895	935	16	84	15.01	15.133	75	TRUE	84
24	935	974	16	84	15.01	15.035	84	TRUE	84
25	974	1015	16	84	15.01	15.081	75	TRUE	84
26	1015	1055	16	84	15.01	15.080	75	TRUE	84
27	1055	1097	16	84	15.01	15.099	75	TRUE	84
28	1097	1135	16	84	15.01	15.069	75	TRUE	84
29	1135	1175	16	84	15.01	15.077	75	TRUE	84
30	1175	1213	16	84	15.01	15.057	84	TRUE	84
31	1213	1253	16	84	15.01	15.072	75	TRUE	84
32	1253	1293	16	84	15.01	15.058	84	TRUE	84
33	1293	1331	16	84	15.01	14.995	84	TRUE	84
34	1331	1371	16	84	15.01	15.032	84	TRUE	84
35	1371	1412	16	84	15.01	15.086	75	TRUE	84
36	1412	1447	16	84	15.01	15.039	84	TRUE	84
37	1447	1482	16	84	15.01	15.159	75	FALSE	75
38	1482	1521	16	84	15.01	15.049	84	TRUE	84
39	1521	1562	16	84	15.01	15.064	84	TRUE	84
40	1562	1602	16	84	15.01	15.047	84	TRUE	84
41	1602	1642	16	84	15.01	15.064	84	TRUE	84
42	1642	1680	16	84	15.01	15.067	75	TRUE	84
43	1680	1720	16	84	15.01	15.052	84	TRUE	84
44	1720	1760	16	84	15.01	15.035	84	TRUE	84
45	1760	1797	16	84	15.01	15.041	84	TRUE	84
46	1797	1833	16	84	15.01	15.034	84	TRUE	84
47	1833	1868	16	84	15.01	14.916	84	TRUE	84
48	1868	1903	16	84	15.01	14.987	84	TRUE	84
49	1903	1942	16	84	15.01	15.067	75	TRUE	84
50	1942	1981	16	84	15.01	15.005	84	TRUE	84

Table A.17: BM-101A detailed section information taken on May 08, 2017

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	64	16	84	15.01	15.074	75	TRUE	84
2	64	106	16	84	15.01	15.088	75	TRUE	84
3	106	147	16	84	15.01	15.080	75	TRUE	84
4	147	190	16	84	15.01	15.106	75	TRUE	84
5	190	230	16	84	15.01	15.073	75	TRUE	84
6	230	272	16	84	15.01	15.104	75	TRUE	84
7	272	314	16	84	15.01	15.083	75	TRUE	84
8	314	349	16	84	15.01	15.085	75	TRUE	84
9	349	385	16	84	15.01	15.086	75	TRUE	84
10	385	426	16	84	15.01	15.076	75	TRUE	84
11	426	467	16	84	15.01	15.140	75	FALSE	75
12	467	502	16	84	15.01	15.103	75	TRUE	84
13	502	542	16	84	15.01	15.095	75	TRUE	84
14	542	583	16	84	15.01	15.156	75	FALSE	75
15	583	622	16	84	15.01	15.085	75	TRUE	84
16	622	662	16	84	15.01	15.106	75	TRUE	84
17	662	704	16	84	15.01	15.145	75	FALSE	75
18	704	745	16	84	15.01	15.120	75	TRUE	84
19	745	784	16	84	15.01	15.125	75	TRUE	84
20	784	826	16	84	15.01	15.123	75	TRUE	84
21	826	867	16	84	15.01	15.120	75	TRUE	84
22	867	905	16	84	15.01	15.105	75	TRUE	84
23	905	945	16	84	15.01	15.075	75	TRUE	84
24	945	985	16	84	15.01	14.968	84	TRUE	84
25	985	1025	16	84	15.01	15.025	84	TRUE	84
26	1025	1065	16	84	15.01	15.011	84	TRUE	84
27	1065	1106	16	84	15.01	15.027	84	TRUE	84
28	1106	1145	16	84	15.01	14.990	84	TRUE	84
29	1145	1185	16	84	15.01	15.009	84	TRUE	84
30	1185	1222	16	84	15.01	14.978	84	TRUE	84
31	1222	1263	16	84	15.01	14.993	84	TRUE	84
32	1263	1302	16	84	15.01	14.971	84	TRUE	84
33	1302	1341	16	84	15.01	14.913	84	TRUE	84
34	1341	1381	16	84	15.01	14.956	84	TRUE	84
35	1381	1422	16	84	15.01	14.999	84	TRUE	84
36	1422	1457	16	84	15.01	14.938	84	TRUE	84
37	1457	1493	16	84	15.01	15.076	75	TRUE	84
38	1493	1532	16	84	15.01	14.960	84	TRUE	84
39	1532	1572	16	84	15.01	14.987	84	TRUE	84
40	1572	1612	16	84	15.01	14.965	84	TRUE	84
41	1612	1652	16	84	15.01	14.985	84	TRUE	84
42	1652	1691	16	84	15.01	15.003	84	TRUE	84
43	1691	1731	16	84	15.01	14.972	84	TRUE	84
44	1731	1770	16	84	15.01	14.948	84	TRUE	84
45	1770	1808	16	84	15.01	14.966	84	TRUE	84
46	1808	1844	16	84	15.01	14.952	84	TRUE	84
47	1844	1879	16	84	15.01	14.833	84	FALSE	84
48	1879	1913	16	84	15.01	14.907	84	TRUE	84
49	1913	1952	16	84	15.01	14.974	84	TRUE	84
50	1952	1993	16	84	15.01	14.935	84	TRUE	84

A.11 Bryan Mound 101C

Table A.18: BM-101C detailed section information taken on September 15, 2014

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	26	67	16	75	15.124	15.040	84	TRUE	75
2	67	103	16	75	15.124	15.186	75	TRUE	75
3	103	143	16	75	15.124	15.205	65	TRUE	75
4	143	178	16	75	15.124	15.199	65	TRUE	75
5	178	217	16	84	15.01	15.029	84	TRUE	84
6	217	257	16	84	15.01	15.076	75	TRUE	84
7	257	297	16	84	15.01	15.038	84	TRUE	84
8	297	332	16	84	15.01	15.038	84	TRUE	84
9	332	372	16	84	15.01	15.032	84	TRUE	84
10	372	408	16	84	15.01	15.050	84	TRUE	84
11	408	446	16	84	15.01	15.036	84	TRUE	84
12	446	480	16	84	15.01	15.028	84	TRUE	84
13	480	519	16	84	15.01	15.078	75	TRUE	84
14	519	560	16	84	15.01	15.084	75	TRUE	84
15	560	602	16	84	15.01	15.221	65	FALSE	65
16	602	642	16	84	15.01	15.079	75	TRUE	84
17	642	679	16	84	15.01	14.981	84	TRUE	84
18	679	717	16	84	15.01	15.003	84	TRUE	84
19	717	753	16	84	15.01	15.035	84	TRUE	84
20	753	792	16	84	15.01	15.053	84	TRUE	84
21	792	829	16	84	15.01	15.064	84	TRUE	84
22	829	865	16	84	15.01	14.983	84	TRUE	84
23	865	903	16	84	15.01	15.099	75	TRUE	84
24	903	942	16	84	15.01	15.050	84	TRUE	84
25	942	982	16	84	15.01	15.063	84	TRUE	84
26	982	1017	16	84	15.01	14.976	84	TRUE	84
27	1017	1054	16	84	15.01	15.016	84	TRUE	84
28	1054	1091	16	84	15.01	15.078	75	TRUE	84
29	1091	1129	16	84	15.01	15.034	84	TRUE	84
30	1129	1166	16	84	15.01	15.059	84	TRUE	84
31	1166	1204	16	84	15.01	15.071	75	TRUE	84
32	1204	1244	16	84	15.01	15.085	75	TRUE	84
33	1244	1285	16	84	15.01	15.109	75	TRUE	84
34	1285	1322	16	84	15.01	15.043	84	TRUE	84
35	1322	1362	16	84	15.01	15.083	75	TRUE	84
36	1362	1400	16	84	15.01	15.013	84	TRUE	84
37	1400	1439	16	84	15.01	15.061	84	TRUE	84
38	1439	1478	16	84	15.01	15.091	75	TRUE	84
39	1478	1515	16	84	15.01	15.016	84	TRUE	84
40	1515	1555	16	84	15.01	15.021	84	TRUE	84
41	1555	1594	16	84	15.01	15.044	84	TRUE	84
42	1594	1635	16	84	15.01	15.037	84	TRUE	84
43	1635	1674	16	84	15.01	15.048	84	TRUE	84
44	1674	1713	16	84	15.01	15.027	84	TRUE	84
45	1713	1754	16	84	15.01	15.095	75	TRUE	84
46	1754	1797	16	84	15.01	15.003	84	TRUE	84
47	1797	1826	16	84	15.01	15.034	84	TRUE	84
48	1826	1862	16	84	15.01	15.041	84	TRUE	84
49	1862	1901	16	84	15.01	15.043	84	TRUE	84
50	1901	1942	16	84	15.01	15.044	84	TRUE	84
51	1942	1983	16	84	15.01	15.034	84	TRUE	84
52	1983	2019	16	84	15.01	15.053	84	TRUE	84

Table A.19: BM-101C detailed section information taken on October 27, 2014

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	14	55	13.375	68	12.415	12.361	72	TRUE	68
2	55	97	13.375	68	12.415	12.391	68	TRUE	68
3	97	139	13.375	68	12.415	12.392	68	TRUE	68
4	139	180	13.375	68	12.415	12.376	72	TRUE	68
5	180	222	13.375	68	12.415	12.387	68	TRUE	68
6	222	262	13.375	68	12.415	12.368	72	TRUE	68
7	262	303	13.375	68	12.415	12.371	72	TRUE	68
8	303	342	13.375	68	12.415	12.380	72	TRUE	68
9	342	383	13.375	68	12.415	12.394	68	TRUE	68
10	383	424	13.375	68	12.415	12.378	72	TRUE	68
11	424	465	13.375	68	12.415	12.404	68	TRUE	68
12	465	506	13.375	68	12.415	12.398	68	TRUE	68
13	506	547	13.375	68	12.415	12.410	68	TRUE	68
14	547	588	13.375	68	12.415	12.392	68	TRUE	68
15	588	628	13.375	68	12.415	12.390	68	TRUE	68
16	628	670	13.375	68	12.415	12.410	68	TRUE	68
17	670	707	13.375	68	12.415	12.427	68	TRUE	68
18	707	748	13.375	68	12.415	12.406	68	TRUE	68
19	748	790	13.375	68	12.415	12.411	68	TRUE	68
20	790	831	13.375	68	12.415	12.421	68	TRUE	68
21	831	873	13.375	68	12.415	12.426	68	TRUE	68
22	873	912	13.375	68	12.415	12.415	68	TRUE	68
23	912	950	13.375	68	12.415	12.423	68	TRUE	68
24	950	992	13.375	68	12.415	12.435	68	TRUE	68
25	992	1034	13.375	68	12.415	12.409	68	TRUE	68
26	1034	1076	13.375	68	12.415	12.419	68	TRUE	68
27	1076	1118	13.375	68	12.415	12.418	68	TRUE	68
28	1118	1159	13.375	68	12.415	12.409	68	TRUE	68
29	1159	1200	13.375	68	12.415	12.429	68	TRUE	68
30	1200	1242	13.375	68	12.415	12.415	68	TRUE	68
31	1242	1282	13.375	68	12.415	12.418	68	TRUE	68
32	1282	1324	13.375	68	12.415	12.408	68	TRUE	68
33	1324	1366	13.375	68	12.415	12.407	68	TRUE	68
34	1366	1407	13.375	68	12.415	12.409	68	TRUE	68
35	1407	1448	13.375	68	12.415	12.408	68	TRUE	68
36	1448	1490	13.375	68	12.415	12.401	68	TRUE	68
37	1490	1531	13.375	68	12.415	12.413	68	TRUE	68
38	1531	1572	13.375	68	12.415	12.419	68	TRUE	68
39	1572	1612	13.375	68	12.415	12.410	68	TRUE	68
40	1612	1654	13.375	68	12.415	12.396	68	TRUE	68
41	1654	1695	13.375	68	12.415	12.412	68	TRUE	68
42	1695	1737	13.375	68	12.415	12.402	68	TRUE	68
43	1737	1778	13.375	68	12.415	12.409	68	TRUE	68
44	1778	1820	13.375	68	12.415	12.393	68	TRUE	68
45	1820	1862	13.375	68	12.415	12.407	68	TRUE	68
46	1862	1906	13.375	68	12.415	12.401	68	TRUE	68
47	1906	1947	13.375	68	12.415	12.422	68	TRUE	68

A.12 Bryan Mound 102B

Table A.20: BM-102B detailed section information taken on February 02, 2012

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	22	16	84	15.01	15.064	84	TRUE	84
2	22	63	16	84	15.01	15.076	75	TRUE	84
3	63	103	16	84	15.01	15.060	84	TRUE	84
4	103	144	16	84	15.01	15.077	75	TRUE	84
5	144	184	16	84	15.01	15.040	84	TRUE	84
6	184	224	16	84	15.01	15.065	84	TRUE	84
7	224	265	16	84	15.01	15.054	84	TRUE	84
8	265	305	16	84	15.01	15.039	84	TRUE	84
9	305	346	16	84	15.01	15.039	84	TRUE	84
10	346	385	16	84	15.01	15.051	84	TRUE	84
11	385	424	16	84	15.01	15.040	84	TRUE	84
12	424	465	16	84	15.01	15.074	75	TRUE	84
13	465	505	16	84	15.01	15.077	75	TRUE	84
14	505	544	16	84	15.01	15.081	75	TRUE	84
15	544	584	16	84	15.01	15.061	84	TRUE	84
16	584	624	16	84	15.01	15.044	84	TRUE	84
17	624	665	16	84	15.01	15.044	84	TRUE	84
18	665	706	16	84	15.01	15.105	75	TRUE	84
19	706	747	16	84	15.01	15.043	84	TRUE	84
20	747	787	16	84	15.01	15.074	75	TRUE	84
21	787	827	16	84	15.01	15.038	84	TRUE	84
22	827	868	16	84	15.01	15.080	75	TRUE	84
23	868	908	16	84	15.01	15.080	75	TRUE	84
24	908	949	16	84	15.01	15.105	75	TRUE	84
25	949	989	16	84	15.01	15.064	84	TRUE	84
26	989	1029	16	84	15.01	15.127	75	TRUE	84
27	1029	1068	16	84	15.01	15.110	75	TRUE	84
28	1068	1107	16	84	15.01	15.065	84	TRUE	84
29	1107	1147	16	84	15.01	15.066	84	TRUE	84
30	1147	1185	16	84	15.01	15.096	75	TRUE	84
31	1185	1224	16	84	15.01	15.057	84	TRUE	84
32	1224	1262	16	84	15.01	15.039	84	TRUE	84
33	1262	1302	16	84	15.01	15.042	84	TRUE	84
34	1302	1344	16	84	15.01	15.078	75	TRUE	84
35	1344	1385	16	84	15.01	15.110	75	TRUE	84
36	1385	1424	16	84	15.01	15.032	84	TRUE	84
37	1424	1465	16	84	15.01	15.086	75	TRUE	84
38	1465	1505	16	84	15.01	15.051	84	TRUE	84
39	1505	1544	16	84	15.01	14.990	84	TRUE	84
40	1544	1582	16	84	15.01	15.039	84	TRUE	84
41	1582	1620	16	84	15.01	15.026	84	TRUE	84
42	1620	1656	16	84	15.01	15.195	65	FALSE	65
43	1656	1696	16	84	15.01	15.043	84	TRUE	84
44	1696	1736	16	84	15.01	15.066	84	TRUE	84
45	1736	1776	16	84	15.01	15.038	84	TRUE	84
46	1776	1816	16	84	15.01	15.056	84	TRUE	84
47	1816	1857	16	84	15.01	15.125	75	TRUE	84
48	1857	1898	16	84	15.01	15.066	84	TRUE	84
49	1898	1938	16	84	15.01	15.077	75	TRUE	84
50	1938	1979	16	84	15.01	15.037	84	TRUE	84
51	1979	2018	16	84	15.01	15.016	84	TRUE	84

A.13 Bryan Mound 102C

Table A.21: BM-102C detailed section information taken on March 14, 2012

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	24	16	84	15.01	15.060	84	TRUE	84
2	24	63	16	84	15.01	15.039	84	TRUE	84
3	63	96	16	84	15.01	15.002	84	TRUE	84
4	96	135	16	84	15.01	15.051	84	TRUE	84
5	135	176	16	84	15.01	15.048	84	TRUE	84
6	176	215	16	84	15.01	15.049	84	TRUE	84
7	215	251	16	84	15.01	15.013	84	TRUE	84
8	251	292	16	84	15.01	15.042	84	TRUE	84
9	292	332	16	84	15.01	15.055	84	TRUE	84
10	332	367	16	84	15.01	15.031	84	TRUE	84
11	367	407	16	84	15.01	15.054	84	TRUE	84
12	407	447	16	84	15.01	15.076	75	TRUE	84
13	447	485	16	84	15.01	15.077	75	TRUE	84
14	485	524	16	84	15.01	15.014	84	TRUE	84
15	524	563	16	84	15.01	15.028	84	TRUE	84
16	563	598	16	84	15.01	15.046	84	TRUE	84
17	598	637	16	84	15.01	15.013	84	TRUE	84
18	637	675	16	84	15.01	15.017	84	TRUE	84
19	675	716	16	84	15.01	15.059	84	TRUE	84
20	716	752	16	84	15.01	15.068	75	TRUE	84
21	752	791	16	84	15.01	15.057	84	TRUE	84
22	791	833	16	84	15.01	15.085	75	TRUE	84
23	833	870	16	84	15.01	15.006	84	TRUE	84
24	870	907	16	84	15.01	15.063	84	TRUE	84
25	907	947	16	84	15.01	15.069	75	TRUE	84
26	947	982	16	84	15.01	15.091	75	TRUE	84
27	982	1020	16	84	15.01	15.040	84	TRUE	84
28	1020	1059	16	84	15.01	15.040	84	TRUE	84
29	1059	1098	16	84	15.01	15.044	84	TRUE	84
30	1098	1138	16	84	15.01	15.018	84	TRUE	84
31	1138	1177	16	84	15.01	15.045	84	TRUE	84
32	1177	1216	16	84	15.01	15.083	75	TRUE	84
33	1216	1254	16	84	15.01	15.023	84	TRUE	84
34	1254	1291	16	84	15.01	15.065	84	TRUE	84
35	1291	1328	16	84	15.01	14.963	84	TRUE	84
36	1328	1364	16	84	15.01	15.044	84	TRUE	84
37	1364	1404	16	84	15.01	14.995	84	TRUE	84
38	1404	1442	16	84	15.01	15.021	84	TRUE	84
39	1442	1482	16	84	15.01	15.072	75	TRUE	84
40	1482	1520	16	84	15.01	15.025	84	TRUE	84
41	1520	1559	16	84	15.01	14.998	84	TRUE	84
42	1559	1597	16	84	15.01	15.023	84	TRUE	84
43	1597	1636	16	84	15.01	15.014	84	TRUE	84
44	1636	1675	16	84	15.01	15.010	84	TRUE	84
45	1675	1716	16	84	15.01	15.078	75	TRUE	84
46	1716	1756	16	84	15.01	15.088	75	TRUE	84
47	1756	1795	16	84	15.01	14.991	84	TRUE	84
48	1795	1834	16	84	15.01	15.007	84	TRUE	84
49	1834	1875	16	84	15.01	15.045	84	TRUE	84
50	1875	1914	16	84	15.01	14.983	84	TRUE	84
51	1914	1948	16	84	15.01	14.985	84	TRUE	84
52	1948	1988	16	84	15.01	15.017	84	TRUE	84

A.14 Bryan Mound 103B

Table A.22: BM-103B detailed section information taken on April 11, 2011

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	20	63	16	75	15.124	15.244	65	FALSE	65
2	63	105	16	75	15.124	15.212	65	TRUE	75
3	105	146	16	75	15.124	15.170	75	TRUE	75
4	146	183	16	75	15.124	15.145	75	TRUE	75
5	183	223	16	75	15.124	15.201	65	TRUE	75
6	223	261	16	75	15.124	15.180	75	TRUE	75
7	261	301	16	75	15.124	15.205	65	TRUE	75
8	301	342	16	75	15.124	15.162	75	TRUE	75
9	342	381	16	75	15.124	15.159	75	TRUE	75
10	381	423	16	75	15.124	15.224	65	TRUE	75
11	423	461	16	75	15.124	15.165	75	TRUE	75
12	461	502	16	75	15.124	15.200	65	TRUE	75
13	502	541	16	75	15.124	15.173	75	TRUE	75
14	541	579	16	75	15.124	15.163	75	TRUE	75
15	579	621	16	75	15.124	15.162	75	TRUE	75
16	621	659	16	75	15.124	15.160	75	TRUE	75
17	659	700	16	75	15.124	15.176	75	TRUE	75
18	700	741	16	75	15.124	15.169	75	TRUE	75
19	741	784	16	75	15.124	15.238	65	FALSE	65
20	784	826	16	75	15.124	15.178	75	TRUE	75
21	826	866	16	75	15.124	15.170	75	TRUE	75
22	866	906	16	75	15.124	15.167	75	TRUE	75
23	906	943	16	75	15.124	15.204	65	TRUE	75
24	943	981	16	75	15.124	15.163	75	TRUE	75
25	981	1020	16	75	15.124	15.173	75	TRUE	75
26	1020	1060	16	75	15.124	15.193	65	TRUE	75
27	1060	1101	16	75	15.124	15.162	75	TRUE	75
28	1101	1140	16	75	15.124	15.160	75	TRUE	75
29	1140	1179	16	75	15.124	15.164	75	TRUE	75
30	1179	1219	16	75	15.124	15.131	75	TRUE	75
31	1219	1260	16	75	15.124	15.163	75	TRUE	75
32	1260	1301	16	75	15.124	15.154	75	TRUE	75
33	1301	1342	16	75	15.124	15.205	65	TRUE	75
34	1342	1382	16	75	15.124	15.173	75	TRUE	75
35	1382	1422	16	75	15.124	15.148	75	TRUE	75
36	1422	1461	16	75	15.124	15.201	65	TRUE	75
37	1461	1502	16	75	15.124	15.055	84	TRUE	75
38	1502	1538	16	75	15.124	15.029	84	TRUE	75
39	1538	1580	16	75	15.124	15.083	75	TRUE	75
40	1580	1622	16	84	15.01	15.086	75	TRUE	84
41	1622	1660	16	84	15.01	14.996	84	TRUE	84
42	1660	1701	16	84	15.01	15.218	65	FALSE	65
43	1701	1741	16	84	15.01	15.157	75	FALSE	75
44	1741	1781	16	84	15.01	15.184	75	FALSE	75
45	1781	1822	16	84	15.01	15.135	75	FALSE	75
46	1822	1858	16	84	15.01	15.168	75	FALSE	75
47	1858	1894	16	84	15.01	15.018	84	TRUE	84
48	1894	1931	16	84	15.01	15.039	84	TRUE	84
49	1931	1963	16	84	15.01	15.070	75	TRUE	84

Table A.23: BM-103B detailed section information taken on August 10, 2015

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	36	16	75	15.124	15.196	65	TRUE	75
2	36	79	16	75	15.124	15.244	65	FALSE	65
3	79	121	16	75	15.124	15.214	65	TRUE	75
4	121	162	16	75	15.124	15.167	75	TRUE	75
5	162	200	16	75	15.124	15.155	75	TRUE	75
6	200	239	16	75	15.124	15.208	65	TRUE	75
7	239	278	16	75	15.124	15.186	75	TRUE	75
8	278	318	16	75	15.124	15.214	65	TRUE	75
9	318	360	16	75	15.124	15.173	75	TRUE	75
10	360	398	16	75	15.124	15.168	75	TRUE	75
11	398	440	16	75	15.124	15.240	65	FALSE	65
12	440	479	16	75	15.124	15.185	75	TRUE	75
13	479	520	16	75	15.124	15.221	65	TRUE	75
14	520	561	16	75	15.124	15.192	65	TRUE	75
15	561	597	16	75	15.124	15.182	75	TRUE	75
16	597	638	16	75	15.124	15.182	75	TRUE	75
17	638	677	16	75	15.124	15.181	75	TRUE	75
18	677	718	16	75	15.124	15.198	65	TRUE	75
19	718	759	16	75	15.124	15.195	65	TRUE	75
20	759	802	16	75	15.124	15.270	65	FALSE	65
21	802	844	16	75	15.124	15.204	65	TRUE	75
22	844	884	16	75	15.124	15.192	65	TRUE	75
23	884	924	16	75	15.124	15.191	65	TRUE	75
24	924	962	16	75	15.124	15.234	65	FALSE	65
25	962	999	16	75	15.124	15.186	75	TRUE	75
26	999	1039	16	75	15.124	15.193	65	TRUE	75
27	1039	1079	16	75	15.124	15.215	65	TRUE	75
28	1079	1120	16	75	15.124	15.181	75	TRUE	75
29	1120	1159	16	75	15.124	15.182	75	TRUE	75
30	1159	1199	16	75	15.124	15.186	75	TRUE	75
31	1199	1238	16	75	15.124	15.140	75	TRUE	75
32	1238	1280	16	75	15.124	15.175	75	TRUE	75
33	1280	1320	16	75	15.124	15.171	75	TRUE	75
34	1320	1361	16	75	15.124	15.221	65	TRUE	75
35	1361	1401	16	75	15.124	15.189	65	TRUE	75
36	1401	1442	16	75	15.124	15.164	75	TRUE	75
37	1442	1481	16	75	15.124	15.218	65	TRUE	75
38	1481	1522	16	75	15.124	15.071	75	TRUE	75
39	1522	1558	16	75	15.124	15.025	84	TRUE	75
40	1558	1600	16	75	15.124	15.084	75	TRUE	75
41	1600	1642	16	84	15.01	15.087	75	TRUE	84
42	1642	1680	16	84	15.01	14.993	84	TRUE	84
43	1680	1721	16	84	15.01	15.219	65	FALSE	65
44	1721	1761	16	84	15.01	15.166	75	FALSE	75
45	1761	1802	16	84	15.01	15.186	75	FALSE	75
46	1802	1842	16	84	15.01	15.139	75	FALSE	75
47	1842	1878	16	84	15.01	15.181	75	FALSE	75
48	1878	1914	16	84	15.01	15.020	84	TRUE	84
49	1914	1951	16	84	15.01	15.039	84	TRUE	84
50	1951	1989	16	84	15.01	15.072	75	TRUE	84

Table A.24: BM-103B detailed section information taken on December 14, 2015

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	23	13.375	61	12.515	12.435	68	TRUE	61
2	23	64	13.375	61	12.515	12.434	68	TRUE	61
3	64	105	13.375	61	12.515	12.445	68	TRUE	61
4	105	144	13.375	61	12.515	12.484	61	TRUE	61
5	144	186	13.375	61	12.515	12.458	68	TRUE	61
6	186	228	13.375	61	12.515	12.458	68	TRUE	61
7	228	270	13.375	61	12.515	12.458	68	TRUE	61
8	270	310	13.375	61	12.515	12.457	68	TRUE	61
9	310	349	13.375	61	12.515	12.449	68	TRUE	61
10	349	390	13.375	61	12.515	12.466	61	TRUE	61
11	390	431	13.375	61	12.515	12.461	68	TRUE	61
12	431	472	13.375	61	12.515	12.452	68	TRUE	61
13	472	513	13.375	61	12.515	12.473	61	TRUE	61
14	513	554	13.375	61	12.515	12.473	61	TRUE	61
15	554	595	13.375	61	12.515	12.460	68	TRUE	61
16	595	635	13.375	61	12.515	12.479	61	TRUE	61
17	635	676	13.375	61	12.515	12.477	61	TRUE	61
18	676	715	13.375	61	12.515	12.479	61	TRUE	61
19	715	755	13.375	61	12.515	12.487	61	TRUE	61
20	755	794	13.375	61	12.515	12.478	61	TRUE	61
21	794	836	13.375	61	12.515	12.486	61	TRUE	61
22	836	877	13.375	61	12.515	12.468	61	TRUE	61
23	877	917	13.375	61	12.515	12.488	61	TRUE	61
24	917	958	13.375	61	12.515	12.481	61	TRUE	61
25	958	998	13.375	61	12.515	12.464	68	TRUE	61
26	998	1039	13.375	61	12.515	12.474	61	TRUE	61
27	1039	1081	13.375	61	12.515	12.481	61	TRUE	61
28	1081	1123	13.375	61	12.515	12.484	61	TRUE	61
29	1123	1164	13.375	61	12.515	12.490	61	TRUE	61
30	1164	1204	13.375	61	12.515	12.489	61	TRUE	61
31	1204	1246	13.375	61	12.515	12.477	61	TRUE	61
32	1246	1287	13.375	61	12.515	12.485	61	TRUE	61
33	1287	1328	13.375	61	12.515	12.508	61	TRUE	61
34	1328	1369	13.375	61	12.515	12.467	61	TRUE	61
35	1369	1410	13.375	61	12.515	12.478	61	TRUE	61
36	1410	1451	13.375	61	12.515	12.471	61	TRUE	61
37	1451	1489	13.375	61	12.515	12.487	61	TRUE	61
38	1489	1529	13.375	61	12.515	12.473	61	TRUE	61
39	1529	1570	13.375	61	12.515	12.457	68	TRUE	61
40	1570	1611	13.375	61	12.515	12.498	61	TRUE	61
41	1611	1652	13.375	61	12.515	12.474	61	TRUE	61
42	1652	1689	13.375	61	12.515	12.486	61	TRUE	61
43	1689	1731	13.375	61	12.515	12.492	61	TRUE	61
44	1731	1771	13.375	61	12.515	12.488	61	TRUE	61
45	1771	1812	13.375	61	12.515	12.486	61	TRUE	61
46	1812	1854	13.375	61	12.515	12.488	61	TRUE	61
47	1854	1896	13.375	61	12.515	12.489	61	TRUE	61
48	1896	1934	13.375	61	12.515	12.531	61	TRUE	61

A.15 Bryan Mound 103C

Table A.25: BM-103C detailed section information taken on October 12, 2011

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	26	16	75	15.124	15.174	75	TRUE	75
2	26	68	16	75	15.124	15.240	65	FALSE	65
3	68	108	16	75	15.124	15.206	65	TRUE	75
4	108	148	16	75	15.124	15.258	65	FALSE	65
5	148	188	16	75	15.124	15.206	65	TRUE	75
6	188	230	16	75	15.124	15.231	65	TRUE	75
7	230	272	16	75	15.124	15.240	65	FALSE	65
8	272	311	16	75	15.124	15.238	65	FALSE	65
9	311	349	16	75	15.124	15.229	65	TRUE	75
10	349	386	16	75	15.124	15.177	75	TRUE	75
11	386	418	16	75	15.124	15.213	65	TRUE	75
12	418	462	16	75	15.124	15.175	75	TRUE	75
13	462	502	16	75	15.124	15.229	65	TRUE	75
14	502	541	16	75	15.124	15.192	65	TRUE	75
15	541	578	16	75	15.124	15.197	65	TRUE	75
16	578	619	16	75	15.124	15.211	65	TRUE	75
17	619	660	16	75	15.124	15.225	65	TRUE	75
18	660	694	16	75	15.124	15.201	65	TRUE	75
19	694	732	16	75	15.124	15.189	65	TRUE	75
20	732	768	16	75	15.124	15.230	65	TRUE	75
21	768	808	16	75	15.124	15.195	65	TRUE	75
22	808	849	16	75	15.124	15.252	65	FALSE	65
23	849	890	16	75	15.124	15.229	65	TRUE	75
24	890	931	16	75	15.124	15.206	65	TRUE	75
25	931	971	16	75	15.124	15.188	65	TRUE	75
26	971	1010	16	75	15.124	15.204	65	TRUE	75
27	1010	1046	16	75	15.124	15.230	65	TRUE	75
28	1046	1084	16	75	15.124	15.190	65	TRUE	75
29	1084	1124	16	75	15.124	15.196	65	TRUE	75
30	1124	1161	16	75	15.124	15.159	75	TRUE	75
31	1161	1202	16	75	15.124	15.169	75	TRUE	75
32	1202	1243	16	75	15.124	15.233	65	TRUE	75
33	1243	1278	16	75	15.124	15.191	65	TRUE	75
34	1278	1314	16	75	15.124	15.217	65	TRUE	75
35	1314	1355	16	75	15.124	15.189	65	TRUE	75
36	1355	1396	16	75	15.124	15.211	65	TRUE	75
37	1396	1437	16	75	15.124	15.195	65	TRUE	75
38	1437	1478	16	75	15.124	15.219	65	TRUE	75
39	1478	1516	16	75	15.124	15.192	65	TRUE	75
40	1516	1557	16	75	15.124	15.196	65	TRUE	75
41	1557	1599	16	75	15.124	15.194	65	TRUE	75
42	1599	1639	16	75	15.124	15.181	75	TRUE	75
43	1639	1680	16	84	15.01	15.066	84	TRUE	84
44	1680	1719	16	84	15.01	15.066	84	TRUE	84
45	1719	1764	16	84	15.01	15.038	84	TRUE	84
46	1764	1794	16	84	15.01	15.013	84	TRUE	84
47	1794	1835	16	84	15.01	15.073	75	TRUE	84
48	1835	1872	16	84	15.01	15.049	84	TRUE	84
49	1872	1911	16	84	15.01	15.059	84	TRUE	84
50	1911	1951	16	84	15.01	15.075	75	TRUE	84
51	1951	1991	16	84	15.01	15.022	84	TRUE	84

Table A.26: BM-103C detailed section information taken on July 01, 2014

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	22	16	75	15.124	15.125	75	TRUE	75
2	22	64	16	75	15.124	15.152	75	TRUE	75
3	64	105	16	75	15.124	15.127	75	TRUE	75
4	105	144	16	75	15.124	15.171	75	TRUE	75
5	144	184	16	75	15.124	15.130	75	TRUE	75
6	184	226	16	75	15.124	15.149	75	TRUE	75
7	226	268	16	75	15.124	15.168	75	TRUE	75
8	268	307	16	75	15.124	15.149	75	TRUE	75
9	307	346	16	75	15.124	15.153	75	TRUE	75
10	346	383	16	75	15.124	15.110	75	TRUE	75
11	383	419	16	75	15.124	15.125	75	TRUE	75
12	419	459	16	75	15.124	15.112	75	TRUE	75
13	459	499	16	75	15.124	15.152	75	TRUE	75
14	499	538	16	75	15.124	15.122	75	TRUE	75
15	538	575	16	75	15.124	15.132	75	TRUE	75
16	575	616	16	75	15.124	15.138	75	TRUE	75
17	616	658	16	75	15.124	15.156	75	TRUE	75
18	658	692	16	75	15.124	15.142	75	TRUE	75
19	692	729	16	75	15.124	15.126	75	TRUE	75
20	729	766	16	75	15.124	15.169	75	TRUE	75
21	766	806	16	75	15.124	15.131	75	TRUE	75
22	806	847	16	75	15.124	15.188	65	TRUE	75
23	847	888	16	75	15.124	15.173	75	TRUE	75
24	888	929	16	75	15.124	15.149	75	TRUE	75
25	929	970	16	75	15.124	15.136	75	TRUE	75
26	970	1008	16	75	15.124	15.147	75	TRUE	75
27	1008	1045	16	75	15.124	15.175	75	TRUE	75
28	1045	1083	16	75	15.124	15.148	75	TRUE	75
29	1083	1123	16	75	15.124	15.154	75	TRUE	75
30	1123	1159	16	75	15.124	15.108	75	TRUE	75
31	1159	1201	16	75	15.124	15.134	75	TRUE	75
32	1201	1242	16	75	15.124	15.187	65	TRUE	75
33	1242	1277	16	75	15.124	15.151	75	TRUE	75
34	1277	1313	16	75	15.124	15.140	75	TRUE	75
35	1313	1354	16	75	15.124	15.124	75	TRUE	75
36	1354	1395	16	75	15.124	15.157	75	TRUE	75
37	1395	1436	16	75	15.124	15.134	75	TRUE	75
38	1436	1478	16	75	15.124	15.177	75	TRUE	75
39	1478	1516	16	75	15.124	15.139	75	TRUE	75
40	1516	1557	16	75	15.124	15.150	75	TRUE	75
41	1557	1599	16	75	15.124	15.134	75	TRUE	75
42	1599	1640	16	75	15.124	15.124	75	TRUE	75
43	1640	1680	16	84	15.01	15.030	84	TRUE	84
44	1680	1720	16	84	15.01	15.013	84	TRUE	84
45	1720	1757	16	84	15.01	15.005	84	TRUE	84
46	1757	1795	16	84	15.01	14.959	84	TRUE	84
47	1795	1836	16	84	15.01	15.024	84	TRUE	84
48	1836	1873	16	84	15.01	14.999	84	TRUE	84
49	1873	1912	16	84	15.01	15.000	84	TRUE	84
50	1912	1952	16	84	15.01	15.034	84	TRUE	84
51	1952	1991	16	84	15.01	15.005	84	TRUE	84

Table A.27: BM-103C detailed section information taken on August 13, 2014

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	13	54	13.375	61	12.515	12.445	68	TRUE	61
2	54	93	13.375	61	12.515	12.428	68	TRUE	61
3	93	135	13.375	61	12.515	12.446	68	TRUE	61
4	135	175	13.375	61	12.515	12.442	68	TRUE	61
5	175	217	13.375	61	12.515	12.454	68	TRUE	61
6	217	259	13.375	61	12.515	12.442	68	TRUE	61
7	259	301	13.375	61	12.515	12.439	68	TRUE	61
8	301	342	13.375	61	12.515	12.435	68	TRUE	61
9	342	384	13.375	61	12.515	12.440	68	TRUE	61
10	384	422	13.375	61	12.515	12.428	68	TRUE	61
11	422	462	13.375	61	12.515	12.441	68	TRUE	61
12	462	500	13.375	61	12.515	12.429	68	TRUE	61
13	500	543	13.375	61	12.515	12.473	61	TRUE	61
14	543	583	13.375	61	12.515	12.477	61	TRUE	61
15	583	625	13.375	61	12.515	12.435	68	TRUE	61
16	625	666	13.375	61	12.515	12.475	61	TRUE	61
17	666	706	13.375	61	12.515	12.442	68	TRUE	61
18	706	744	13.375	61	12.515	12.488	61	TRUE	61
19	744	786	13.375	61	12.515	12.471	61	TRUE	61
20	786	826	13.375	61	12.515	12.433	68	TRUE	61
21	826	866	13.375	61	12.515	12.453	68	TRUE	61
22	866	905	13.375	61	12.515	12.466	61	TRUE	61
23	905	947	13.375	61	12.515	12.464	68	TRUE	61
24	947	989	13.375	61	12.515	12.469	61	TRUE	61
25	989	1030	13.375	61	12.515	12.471	61	TRUE	61
26	1030	1071	13.375	61	12.515	12.454	68	TRUE	61
27	1071	1111	13.375	61	12.515	12.451	68	TRUE	61
28	1111	1153	13.375	61	12.515	12.468	61	TRUE	61
29	1153	1194	13.375	61	12.515	12.477	61	TRUE	61
30	1194	1236	13.375	61	12.515	12.481	61	TRUE	61
31	1236	1278	13.375	61	12.515	12.474	61	TRUE	61
32	1278	1314	13.375	61	12.515	12.419	68	TRUE	61
33	1314	1355	13.375	61	12.515	12.477	61	TRUE	61
34	1355	1396	13.375	61	12.515	12.479	61	TRUE	61
35	1396	1437	13.375	61	12.515	12.459	68	TRUE	61
36	1437	1478	13.375	61	12.515	12.462	68	TRUE	61
37	1478	1519	13.375	61	12.515	12.463	68	TRUE	61
38	1519	1560	13.375	61	12.515	12.473	61	TRUE	61
39	1560	1599	13.375	61	12.515	12.474	61	TRUE	61
40	1599	1642	13.375	61	12.515	12.493	61	TRUE	61
41	1642	1680	13.375	61	12.515	12.468	61	TRUE	61
42	1680	1718	13.375	61	12.515	12.447	68	TRUE	61
43	1718	1760	13.375	61	12.515	12.471	61	TRUE	61
44	1760	1801	13.375	61	12.515	12.462	68	TRUE	61
45	1801	1843	13.375	61	12.515	12.454	68	TRUE	61
46	1843	1883	13.375	61	12.515	12.442	68	TRUE	61
47	1883	1922	13.375	61	12.515	12.465	68	TRUE	61

A.16 Bryan Mound 104A

Table A.28: BM-104A detailed section information taken on December 14, 2010

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	37	13.375	54.5	12.615	12.726	48	FALSE	48
2	37	78	13.375	54.5	12.615	12.727	48	FALSE	48
3	78	119	13.375	54.5	12.615	12.717	48	FALSE	48
4	119	159	13.375	54.5	12.615	12.721	48	FALSE	48
5	159	195	13.375	54.5	12.615	12.730	48	FALSE	48
6	195	235	13.375	54.5	12.615	12.729	48	FALSE	48
7	235	274	13.375	54.5	12.615	12.753	48	FALSE	48
8	274	314	13.375	54.5	12.615	12.707	48	TRUE	54.5
9	314	355	13.375	54.5	12.615	12.728	48	FALSE	48
10	355	393	13.375	54.5	12.615	12.720	48	FALSE	48
11	393	434	13.375	54.5	12.615	12.710	48	TRUE	54.5
12	434	474	13.375	54.5	12.615	12.710	48	FALSE	48
13	474	515	13.375	54.5	12.615	12.735	48	FALSE	48
14	515	555	13.375	54.5	12.615	12.712	48	FALSE	48
15	555	594	13.375	54.5	12.615	12.709	48	TRUE	54.5
16	594	636	13.375	54.5	12.615	12.735	48	FALSE	48
17	636	674	13.375	54.5	12.615	12.720	48	FALSE	48
18	674	709	13.375	54.5	12.615	12.759	48	FALSE	48
19	709	750	13.375	54.5	12.615	12.716	48	FALSE	48
20	750	789	13.375	54.5	12.615	12.696	48	TRUE	54.5
21	789	829	13.375	54.5	12.615	12.728	48	FALSE	48
22	829	868	13.375	54.5	12.615	12.732	48	FALSE	48
23	868	908	13.375	54.5	12.615	12.728	48	FALSE	48
24	908	945	13.375	54.5	12.615	12.741	48	FALSE	48
25	945	986	13.375	54.5	12.615	12.731	48	FALSE	48
26	986	1025	13.375	54.5	12.615	12.702	48	TRUE	54.5
27	1025	1067	13.375	54.5	12.615	12.726	48	FALSE	48
28	1067	1109	13.375	54.5	12.615	12.712	48	FALSE	48
29	1109	1151	13.375	54.5	12.615	12.725	48	FALSE	48
30	1151	1192	13.375	54.5	12.615	12.713	48	FALSE	48
31	1192	1233	13.375	54.5	12.615	12.704	48	TRUE	54.5
32	1233	1274	13.375	54.5	12.615	12.703	48	TRUE	54.5
33	1274	1311	13.375	54.5	12.615	12.715	48	FALSE	48
34	1311	1351	13.375	54.5	12.615	12.705	48	TRUE	54.5
35	1351	1393	13.375	54.5	12.615	12.722	48	FALSE	48
36	1393	1434	13.375	54.5	12.615	12.703	48	TRUE	54.5
37	1434	1475	13.375	54.5	12.615	12.708	48	TRUE	54.5
38	1475	1515	13.375	54.5	12.615	12.700	48	TRUE	54.5
39	1515	1552	13.375	54.5	12.615	12.720	48	FALSE	48
40	1552	1588	13.375	54.5	12.615	12.737	48	FALSE	48
41	1588	1627	13.375	54.5	12.615	12.720	48	FALSE	48
42	1627	1670	13.375	61	12.515	12.587	54.5	TRUE	61
43	1670	1713	13.375	61	12.515	12.611	54.5	TRUE	61
44	1713	1757	13.375	61	12.515	12.590	54.5	TRUE	61
45	1757	1802	13.375	61	12.515	12.583	54.5	TRUE	61
46	1802	1846	13.375	61	12.515	12.586	54.5	TRUE	61
47	1846	1892	13.375	61	12.515	12.621	54.5	TRUE	61
48	1892	1940	13.375	61	12.515	12.635	54.5	FALSE	54.5
49	1940	1984	13.375	61	12.515	12.644	54.5	FALSE	54.5

Table A.29: BM-104A detailed section information taken on November 19, 2015

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	34	13.375	54.5	12.615	12.662	54.5	TRUE	54.5
2	34	76	13.375	54.5	12.615	12.659	54.5	TRUE	54.5
3	76	116	13.375	54.5	12.615	12.645	54.5	TRUE	54.5
4	116	156	13.375	54.5	12.615	12.652	54.5	TRUE	54.5
5	156	192	13.375	54.5	12.615	12.666	48	TRUE	54.5
6	192	233	13.375	54.5	12.615	12.665	48	TRUE	54.5
7	233	271	13.375	54.5	12.615	12.692	48	TRUE	54.5
8	271	312	13.375	54.5	12.615	12.651	54.5	TRUE	54.5
9	312	353	13.375	54.5	12.615	12.675	48	TRUE	54.5
10	353	391	13.375	54.5	12.615	12.671	48	TRUE	54.5
11	391	431	13.375	54.5	12.615	12.665	48	TRUE	54.5
12	431	471	13.375	54.5	12.615	12.670	48	TRUE	54.5
13	471	513	13.375	54.5	12.615	12.695	48	TRUE	54.5
14	513	553	13.375	54.5	12.615	12.674	48	TRUE	54.5
15	553	592	13.375	54.5	12.615	12.681	48	TRUE	54.5
16	592	634	13.375	54.5	12.615	12.706	48	TRUE	54.5
17	634	672	13.375	54.5	12.615	12.692	48	TRUE	54.5
18	672	707	13.375	54.5	12.615	12.729	48	FALSE	48
19	707	748	13.375	54.5	12.615	12.689	48	TRUE	54.5
20	748	787	13.375	54.5	12.615	12.667	48	TRUE	54.5
21	787	827	13.375	54.5	12.615	12.696	48	TRUE	54.5
22	827	866	13.375	54.5	12.615	12.692	48	TRUE	54.5
23	866	906	13.375	54.5	12.615	12.689	48	TRUE	54.5
24	906	944	13.375	54.5	12.615	12.699	48	TRUE	54.5
25	944	984	13.375	54.5	12.615	12.692	48	TRUE	54.5
26	984	1023	13.375	54.5	12.615	12.664	54.5	TRUE	54.5
27	1023	1066	13.375	54.5	12.615	12.681	48	TRUE	54.5
28	1066	1107	13.375	54.5	12.615	12.669	48	TRUE	54.5
29	1107	1149	13.375	54.5	12.615	12.681	48	TRUE	54.5
30	1149	1191	13.375	54.5	12.615	12.668	48	TRUE	54.5
31	1191	1231	13.375	54.5	12.615	12.657	54.5	TRUE	54.5
32	1231	1273	13.375	54.5	12.615	12.656	54.5	TRUE	54.5
33	1273	1310	13.375	54.5	12.615	12.669	48	TRUE	54.5
34	1310	1350	13.375	54.5	12.615	12.657	54.5	TRUE	54.5
35	1350	1392	13.375	54.5	12.615	12.671	48	TRUE	54.5
36	1392	1433	13.375	54.5	12.615	12.653	54.5	TRUE	54.5
37	1433	1474	13.375	54.5	12.615	12.659	54.5	TRUE	54.5
38	1474	1514	13.375	54.5	12.615	12.652	54.5	TRUE	54.5
39	1514	1552	13.375	54.5	12.615	12.671	48	TRUE	54.5
40	1552	1587	13.375	54.5	12.615	12.691	48	TRUE	54.5
41	1587	1626	13.375	54.5	12.615	12.671	48	TRUE	54.5
42	1626	1669	13.375	61	12.515	12.539	61	TRUE	61
43	1669	1713	13.375	61	12.515	12.562	61	TRUE	61
44	1713	1757	13.375	61	12.515	12.541	61	TRUE	61
45	1757	1801	13.375	61	12.515	12.533	61	TRUE	61
46	1801	1846	13.375	61	12.515	12.539	61	TRUE	61
47	1846	1892	13.375	61	12.515	12.574	54.5	TRUE	61
48	1892	1932	13.375	61	12.515	12.586	54.5	TRUE	61
49	1932	1971	13.375	61	12.515	12.596	54.5	TRUE	61

A.17 Bryan Mound 104B

No surveys were available for 104B.

A.18 Bryan Mound 104C

Table A.30: BM-104C detailed section information taken on December 13, 2010

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	21	13.375	54.5	12.615	12.700	48	TRUE	54.5
2	21	63	13.375	54.5	12.615	12.721	48	FALSE	48
3	63	103	13.375	54.5	12.615	12.696	48	TRUE	54.5
4	103	146	13.375	54.5	12.615	12.744	48	FALSE	48
5	146	187	13.375	54.5	12.615	12.731	48	FALSE	48
6	187	231	13.375	54.5	12.615	12.739	48	FALSE	48
7	231	271	13.375	54.5	12.615	12.737	48	FALSE	48
8	271	309	13.375	54.5	12.615	12.764	48	FALSE	48
9	309	349	13.375	54.5	12.615	12.710	48	FALSE	48
10	349	392	13.375	54.5	12.615	12.720	48	FALSE	48
11	392	433	13.375	54.5	12.615	12.775	48	FALSE	48
12	433	475	13.375	54.5	12.615	12.717	48	FALSE	48
13	475	516	13.375	54.5	12.615	12.734	48	FALSE	48
14	516	559	13.375	54.5	12.615	12.731	48	FALSE	48
15	559	601	13.375	54.5	12.615	12.725	48	FALSE	48
16	601	643	13.375	54.5	12.615	12.705	48	TRUE	54.5
17	643	682	13.375	54.5	12.615	12.737	48	FALSE	48
18	682	722	13.375	54.5	12.615	12.714	48	FALSE	48
19	722	762	13.375	54.5	12.615	12.711	48	FALSE	48
20	762	804	13.375	54.5	12.615	12.736	48	FALSE	48
21	804	843	13.375	54.5	12.615	12.730	48	FALSE	48
22	843	884	13.375	54.5	12.615	12.727	48	FALSE	48
23	884	925	13.375	54.5	12.615	12.745	48	FALSE	48
24	925	962	13.375	54.5	12.615	12.702	48	TRUE	54.5
25	962	1005	13.375	54.5	12.615	12.727	48	FALSE	48
26	1005	1047	13.375	54.5	12.615	12.720	48	FALSE	48
27	1047	1089	13.375	54.5	12.615	12.731	48	FALSE	48
28	1089	1127	13.375	54.5	12.615	12.697	48	TRUE	54.5
29	1127	1168	13.375	54.5	12.615	12.708	48	TRUE	54.5
30	1168	1206	13.375	54.5	12.615	12.665	54.5	TRUE	54.5
31	1206	1245	13.375	54.5	12.615	12.685	48	TRUE	54.5
32	1245	1285	13.375	54.5	12.615	12.704	48	TRUE	54.5
33	1285	1328	13.375	54.5	12.615	12.700	48	TRUE	54.5
34	1328	1369	13.375	54.5	12.615	12.699	48	TRUE	54.5
35	1369	1410	13.375	54.5	12.615	12.720	48	FALSE	48
36	1410	1450	13.375	54.5	12.615	12.707	48	TRUE	54.5
37	1450	1492	13.375	54.5	12.615	12.742	48	FALSE	48
38	1492	1531	13.375	54.5	12.615	12.691	48	TRUE	54.5
39	1531	1574	13.375	54.5	12.615	12.710	48	FALSE	48
40	1574	1614	13.375	54.5	12.615	12.706	48	TRUE	54.5
41	1614	1657	13.375	54.5	12.615	12.746	48	FALSE	48
42	1657	1699	13.375	61	12.515	12.648	54.5	FALSE	54.5
43	1699	1740	13.375	61	12.515	12.645	54.5	FALSE	54.5
44	1740	1782	13.375	61	12.515	12.665	54.5	FALSE	54.5
45	1782	1823	13.375	61	12.515	12.624	54.5	FALSE	54.5
46	1823	1865	13.375	61	12.515	12.630	54.5	FALSE	54.5
47	1865	1906	13.375	61	12.515	12.643	54.5	FALSE	54.5
48	1906	1947	13.375	61	12.515	12.646	54.5	FALSE	54.5
49	1947	1978	13.375	61	12.515	12.652	54.5	FALSE	54.5

Table A.31: BM-104C detailed section information taken on November 25, 2015

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	21	13.375	54.5	12.615	12.613	54.5	TRUE	54.5
2	21	62	13.375	54.5	12.615	12.632	54.5	TRUE	54.5
3	62	102	13.375	54.5	12.615	12.608	54.5	TRUE	54.5
4	102	145	13.375	54.5	12.615	12.657	54.5	TRUE	54.5
5	145	186	13.375	54.5	12.615	12.648	54.5	TRUE	54.5
6	186	230	13.375	54.5	12.615	12.656	54.5	TRUE	54.5
7	230	269	13.375	54.5	12.615	12.662	54.5	TRUE	54.5
8	269	308	13.375	54.5	12.615	12.696	48	TRUE	54.5
9	308	348	13.375	54.5	12.615	12.641	54.5	TRUE	54.5
10	348	391	13.375	54.5	12.615	12.652	54.5	TRUE	54.5
11	391	433	13.375	54.5	12.615	12.695	48	TRUE	54.5
12	433	475	13.375	54.5	12.615	12.657	54.5	TRUE	54.5
13	475	516	13.375	54.5	12.615	12.683	48	TRUE	54.5
14	516	559	13.375	54.5	12.615	12.681	48	TRUE	54.5
15	559	601	13.375	54.5	12.615	12.678	48	TRUE	54.5
16	601	643	13.375	54.5	12.615	12.657	54.5	TRUE	54.5
17	643	682	13.375	54.5	12.615	12.690	48	TRUE	54.5
18	682	722	13.375	54.5	12.615	12.670	48	TRUE	54.5
19	722	762	13.375	54.5	12.615	12.664	54.5	TRUE	54.5
20	762	805	13.375	54.5	12.615	12.692	48	TRUE	54.5
21	805	843	13.375	54.5	12.615	12.684	48	TRUE	54.5
22	843	884	13.375	54.5	12.615	12.673	48	TRUE	54.5
23	884	925	13.375	54.5	12.615	12.687	48	TRUE	54.5
24	925	962	13.375	54.5	12.615	12.648	54.5	TRUE	54.5
25	962	1005	13.375	54.5	12.615	12.667	48	TRUE	54.5
26	1005	1047	13.375	54.5	12.615	12.658	54.5	TRUE	54.5
27	1047	1090	13.375	54.5	12.615	12.671	48	TRUE	54.5
28	1090	1128	13.375	54.5	12.615	12.636	54.5	TRUE	54.5
29	1128	1169	13.375	54.5	12.615	12.654	54.5	TRUE	54.5
30	1169	1207	13.375	54.5	12.615	12.601	54.5	TRUE	54.5
31	1207	1247	13.375	54.5	12.615	12.623	54.5	TRUE	54.5
32	1247	1287	13.375	54.5	12.615	12.644	54.5	TRUE	54.5
33	1287	1329	13.375	54.5	12.615	12.638	54.5	TRUE	54.5
34	1329	1370	13.375	54.5	12.615	12.632	54.5	TRUE	54.5
35	1370	1412	13.375	54.5	12.615	12.652	54.5	TRUE	54.5
36	1412	1452	13.375	54.5	12.615	12.636	54.5	TRUE	54.5
37	1452	1492	13.375	54.5	12.615	12.672	48	TRUE	54.5
38	1492	1533	13.375	54.5	12.615	12.625	54.5	TRUE	54.5
39	1533	1577	13.375	54.5	12.615	12.644	54.5	TRUE	54.5
40	1577	1617	13.375	54.5	12.615	12.639	54.5	TRUE	54.5
41	1617	1659	13.375	54.5	12.615	12.680	48	TRUE	54.5
42	1659	1702	13.375	61	12.515	12.579	54.5	TRUE	61
43	1702	1743	13.375	61	12.515	12.582	54.5	TRUE	61
44	1743	1785	13.375	61	12.515	12.593	54.5	TRUE	61
45	1785	1826	13.375	61	12.515	12.559	61	TRUE	61
46	1826	1868	13.375	61	12.515	12.564	61	TRUE	61
47	1868	1909	13.375	61	12.515	12.577	54.5	TRUE	61
48	1909	1951	13.375	61	12.515	12.582	54.5	TRUE	61
49	1951	1980	13.375	61	12.515	12.586	54.5	TRUE	61

A.19 Bryan Mound 105B

Table A.32: BM-105B detailed section information taken on May 17, 2011

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	17	58	16	84	15.01	15.011	84	TRUE	84
2	58	98	16	84	15.01	15.044	84	TRUE	84
3	98	139	16	84	15.01	15.157	75	FALSE	75
4	139	177	16	84	15.01	15.050	84	TRUE	84
5	177	216	16	84	15.01	15.035	84	TRUE	84
6	216	256	16	84	15.01	14.986	84	TRUE	84
7	256	294	16	84	15.01	15.192	65	FALSE	65
8	294	334	16	84	15.01	15.014	84	TRUE	84
9	334	372	16	84	15.01	15.053	84	TRUE	84
10	372	413	16	84	15.01	15.069	75	TRUE	84
11	413	452	16	84	15.01	15.000	84	TRUE	84
12	452	492	16	84	15.01	15.038	84	TRUE	84
13	492	531	16	84	15.01	14.983	84	TRUE	84
14	531	572	16	84	15.01	15.107	75	TRUE	84
15	572	613	16	84	15.01	15.054	84	TRUE	84
16	613	654	16	84	15.01	15.075	75	TRUE	84
17	654	692	16	84	15.01	14.984	84	TRUE	84
18	692	733	16	84	15.01	15.058	84	TRUE	84
19	733	767	16	84	15.01	15.018	84	TRUE	84
20	767	807	16	84	15.01	15.077	75	TRUE	84
21	807	844	16	84	15.01	15.083	75	TRUE	84
22	844	884	16	84	15.01	15.076	75	TRUE	84
23	884	923	16	84	15.01	15.062	84	TRUE	84
24	923	962	16	84	15.01	15.048	84	TRUE	84
25	962	998	16	84	15.01	15.057	84	TRUE	84
26	998	1035	16	84	15.01	15.025	84	TRUE	84
27	1035	1073	16	84	15.01	15.012	84	TRUE	84
28	1073	1111	16	84	15.01	14.988	84	TRUE	84
29	1111	1151	16	84	15.01	14.824	84	FALSE	84
30	1151	1189	16	84	15.01	15.052	84	TRUE	84
31	1189	1228	16	84	15.01	15.002	84	TRUE	84
32	1228	1269	16	84	15.01	15.029	84	TRUE	84
33	1269	1309	16	84	15.01	15.078	75	TRUE	84
34	1309	1346	16	84	15.01	15.032	84	TRUE	84
35	1346	1384	16	84	15.01	15.094	75	TRUE	84
36	1384	1421	16	84	15.01	15.025	84	TRUE	84
37	1421	1459	16	84	15.01	15.045	84	TRUE	84
38	1459	1497	16	84	15.01	15.058	84	TRUE	84
39	1497	1538	16	84	15.01	15.051	84	TRUE	84
40	1538	1578	16	84	15.01	15.027	84	TRUE	84
41	1578	1618	16	84	15.01	15.066	84	TRUE	84
42	1618	1655	16	84	15.01	15.055	84	TRUE	84
43	1655	1694	16	84	15.01	15.018	84	TRUE	84
44	1694	1733	16	84	15.01	15.032	84	TRUE	84
45	1733	1775	16	84	15.01	15.096	75	TRUE	84
46	1775	1816	16	84	15.01	15.048	84	TRUE	84
47	1816	1855	16	84	15.01	14.990	84	TRUE	84
48	1855	1895	16	84	15.01	15.052	84	TRUE	84
49	1895	1932	16	84	15.01	15.055	84	TRUE	84
50	1932	1972	16	84	15.01	15.055	84	TRUE	84

Table A.33: BM-105B detailed section information taken on March 02, 2016

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	17	58	16	84	15.01	14.932	84	TRUE	84
2	58	98	16	84	15.01	14.948	84	TRUE	84
3	98	139	16	84	15.01	15.069	75	TRUE	84
4	139	177	16	84	15.01	14.970	84	TRUE	84
5	177	217	16	84	15.01	14.954	84	TRUE	84
6	217	256	16	84	15.01	14.917	84	TRUE	84
7	256	295	16	84	15.01	15.138	75	FALSE	75
8	295	335	16	84	15.01	14.942	84	TRUE	84
9	335	373	16	84	15.01	15.001	84	TRUE	84
10	373	414	16	84	15.01	15.016	84	TRUE	84
11	414	454	16	84	15.01	14.967	84	TRUE	84
12	454	493	16	84	15.01	15.011	84	TRUE	84
13	493	533	16	84	15.01	14.962	84	TRUE	84
14	533	574	16	84	15.01	15.088	75	TRUE	84
15	574	615	16	84	15.01	15.041	84	TRUE	84
16	615	655	16	84	15.01	15.063	84	TRUE	84
17	655	694	16	84	15.01	14.968	84	TRUE	84
18	694	735	16	84	15.01	15.052	84	TRUE	84
19	735	769	16	84	15.01	15.012	84	TRUE	84
20	769	809	16	84	15.01	15.061	84	TRUE	84
21	809	846	16	84	15.01	15.066	84	TRUE	84
22	846	886	16	84	15.01	15.027	84	TRUE	84
23	886	925	16	84	15.01	15.014	84	TRUE	84
24	925	964	16	84	15.01	15.009	84	TRUE	84
25	964	1000	16	84	15.01	15.021	84	TRUE	84
26	1000	1038	16	84	15.01	14.975	84	TRUE	84
27	1038	1075	16	84	15.01	14.959	84	TRUE	84
28	1075	1113	16	84	15.01	14.939	84	TRUE	84
29	1113	1154	16	84	15.01	14.773	84	FALSE	84
30	1154	1192	16	84	15.01	14.994	84	TRUE	84
31	1192	1230	16	84	15.01	14.944	84	TRUE	84
32	1230	1272	16	84	15.01	14.985	84	TRUE	84
33	1272	1311	16	84	15.01	15.039	84	TRUE	84
34	1311	1349	16	84	15.01	14.979	84	TRUE	84
35	1349	1386	16	84	15.01	15.044	84	TRUE	84
36	1386	1424	16	84	15.01	14.956	84	TRUE	84
37	1424	1462	16	84	15.01	14.980	84	TRUE	84
38	1462	1500	16	84	15.01	15.012	84	TRUE	84
39	1500	1541	16	84	15.01	14.990	84	TRUE	84
40	1541	1581	16	84	15.01	14.959	84	TRUE	84
41	1581	1621	16	84	15.01	15.009	84	TRUE	84
42	1621	1658	16	84	15.01	14.987	84	TRUE	84
43	1658	1697	16	84	15.01	14.984	84	TRUE	84
44	1697	1736	16	84	15.01	14.995	84	TRUE	84
45	1736	1778	16	84	15.01	15.044	84	TRUE	84
46	1778	1819	16	84	15.01	14.996	84	TRUE	84
47	1819	1858	16	84	15.01	14.952	84	TRUE	84
48	1858	1898	16	84	15.01	14.999	84	TRUE	84
49	1898	1935	16	84	15.01	15.010	84	TRUE	84
50	1935	1975	16	84	15.01	15.02465	84	TRUE	84

A.20 Bryan Mound 105C

No surveys were available for BM-105C

A.21 Bryan Mound 106A

Table A.34: BM-106A detailed section information taken on July 18, 2011

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	33	13.375	54.5	12.615	12.666	48	TRUE	54.5
2	33	74	13.375	54.5	12.615	12.654	54.5	TRUE	54.5
3	74	115	13.375	54.5	12.615	12.655	54.5	TRUE	54.5
4	115	155	13.375	54.5	12.615	12.656	54.5	TRUE	54.5
5	155	189	13.375	54.5	12.615	12.636	54.5	TRUE	54.5
6	189	230	13.375	54.5	12.615	12.656	54.5	TRUE	54.5
7	230	270	13.375	54.5	12.615	12.644	54.5	TRUE	54.5
8	270	310	13.375	54.5	12.615	12.647	54.5	TRUE	54.5
9	310	352	13.375	54.5	12.615	12.656	54.5	TRUE	54.5
10	352	393	13.375	54.5	12.615	12.651	54.5	TRUE	54.5
11	393	436	13.375	54.5	12.615	12.663	54.5	TRUE	54.5
12	436	475	13.375	54.5	12.615	12.646	54.5	TRUE	54.5
13	475	516	13.375	54.5	12.615	12.645	54.5	TRUE	54.5
14	516	556	13.375	54.5	12.615	12.654	54.5	TRUE	54.5
15	556	596	13.375	54.5	12.615	12.644	54.5	TRUE	54.5
16	596	636	13.375	54.5	12.615	12.651	54.5	TRUE	54.5
17	636	678	13.375	54.5	12.615	12.650	54.5	TRUE	54.5
18	678	718	13.375	54.5	12.615	12.638	54.5	TRUE	54.5
19	718	758	13.375	54.5	12.615	12.643	54.5	TRUE	54.5
20	758	798	13.375	54.5	12.615	12.673	48	TRUE	54.5
21	798	841	13.375	54.5	12.615	12.671	48	TRUE	54.5
22	841	881	13.375	54.5	12.615	12.668	48	TRUE	54.5
23	881	922	13.375	54.5	12.615	12.647	54.5	TRUE	54.5
24	922	963	13.375	54.5	12.615	12.648	54.5	TRUE	54.5
25	963	1004	13.375	54.5	12.615	12.641	54.5	TRUE	54.5
26	1004	1044	13.375	54.5	12.615	12.644	54.5	TRUE	54.5
27	1044	1084	13.375	54.5	12.615	12.679	48	TRUE	54.5
28	1084	1126	13.375	54.5	12.615	12.648	54.5	TRUE	54.5
29	1126	1165	13.375	54.5	12.615	12.640	54.5	TRUE	54.5
30	1165	1207	13.375	54.5	12.615	12.654	54.5	TRUE	54.5
31	1207	1248	13.375	54.5	12.615	12.648	54.5	TRUE	54.5
32	1248	1287	13.375	54.5	12.615	12.640	54.5	TRUE	54.5
33	1287	1328	13.375	54.5	12.615	12.649	54.5	TRUE	54.5
34	1328	1370	13.375	54.5	12.615	12.677	48	TRUE	54.5
35	1370	1411	13.375	54.5	12.615	12.668	48	TRUE	54.5
36	1411	1452	13.375	54.5	12.615	12.639	54.5	TRUE	54.5
37	1452	1492	13.375	54.5	12.615	12.632	54.5	TRUE	54.5
38	1492	1533	13.375	54.5	12.615	12.646	54.5	TRUE	54.5
39	1533	1574	13.375	54.5	12.615	12.634	54.5	TRUE	54.5
40	1574	1615	13.375	54.5	12.615	12.640	54.5	TRUE	54.5
41	1615	1657	13.375	54.5	12.615	12.671	48	TRUE	54.5
42	1657	1698	13.375	61	12.515	12.548	61	TRUE	61
43	1698	1738	13.375	61	12.515	12.545	61	TRUE	61
44	1738	1781	13.375	61	12.515	12.559	61	TRUE	61
45	1781	1823	13.375	61	12.515	12.545	61	TRUE	61
46	1823	1864	13.375	61	12.515	12.552	61	TRUE	61
47	1864	1906	13.375	61	12.515	12.550	61	TRUE	61
48	1906	1947	13.375	61	12.515	12.536	61	TRUE	61
49	1947	1989	13.375	61	12.515	12.554	61	TRUE	61

A.22 Bryan Mound 106B

Table A.35: BM-106B detailed section information taken on October 20, 2011

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	19	13.375	61	12.515	12.624	54.5	FALSE	54.5
2	19	60	13.375	61	12.515	12.585	54.5	TRUE	61
3	60	101	13.375	61	12.515	12.577	54.5	TRUE	61
4	101	143	13.375	61	12.515	12.587	54.5	TRUE	61
5	143	181	13.375	61	12.515	12.604	54.5	TRUE	61
6	181	223	13.375	61	12.515	12.575	54.5	TRUE	61
7	223	264	13.375	61	12.515	12.562	61	TRUE	61
8	264	301	13.375	61	12.515	12.567	54.5	TRUE	61
9	301	341	13.375	61	12.515	12.591	54.5	TRUE	61
10	341	383	13.375	61	12.515	12.587	54.5	TRUE	61
11	383	424	13.375	61	12.515	12.573	54.5	TRUE	61
12	424	466	13.375	61	12.515	12.605	54.5	TRUE	61
13	466	507	13.375	61	12.515	12.601	54.5	TRUE	61
14	507	549	13.375	61	12.515	12.581	54.5	TRUE	61
15	549	590	13.375	61	12.515	12.579	54.5	TRUE	61
16	590	628	13.375	61	12.515	12.563	61	TRUE	61
17	628	670	13.375	61	12.515	12.576	54.5	TRUE	61
18	670	711	13.375	61	12.515	12.587	54.5	TRUE	61
19	711	751	13.375	61	12.515	12.588	54.5	TRUE	61
20	751	792	13.375	61	12.515	12.590	54.5	TRUE	61
21	792	834	13.375	61	12.515	12.603	54.5	TRUE	61
22	834	876	13.375	61	12.515	12.586	54.5	TRUE	61
23	876	919	13.375	61	12.515	12.594	54.5	TRUE	61
24	919	966	13.375	61	12.515	12.611	54.5	TRUE	61
25	966	1003	13.375	61	12.515	12.585	54.5	TRUE	61
26	1003	1045	13.375	61	12.515	12.580	54.5	TRUE	61
27	1045	1087	13.375	61	12.515	12.614	54.5	TRUE	61
28	1087	1128	13.375	61	12.515	12.577	54.5	TRUE	61
29	1128	1169	13.375	61	12.515	12.586	54.5	TRUE	61
30	1169	1204	13.375	61	12.515	12.560	61	TRUE	61
31	1204	1245	13.375	61	12.515	12.577	54.5	TRUE	61
32	1245	1287	13.375	61	12.515	12.606	54.5	TRUE	61
33	1287	1329	13.375	61	12.515	12.581	54.5	TRUE	61
34	1329	1365	13.375	61	12.515	12.612	54.5	TRUE	61
35	1365	1406	13.375	61	12.515	12.586	54.5	TRUE	61
36	1406	1448	13.375	61	12.515	12.589	54.5	TRUE	61
37	1448	1490	13.375	61	12.515	12.553	61	TRUE	61
38	1490	1531	13.375	61	12.515	12.578	54.5	TRUE	61
39	1531	1572	13.375	61	12.515	12.578	54.5	TRUE	61
40	1572	1614	13.375	61	12.515	12.590	54.5	TRUE	61
41	1614	1658	13.375	61	12.515	12.612	54.5	TRUE	61
42	1658	1698	13.375	61	12.515	12.583	54.5	TRUE	61
43	1698	1741	13.375	61	12.515	12.583	54.5	TRUE	61
44	1741	1783	13.375	61	12.515	12.578	54.5	TRUE	61
45	1783	1822	13.375	61	12.515	12.574	54.5	TRUE	61
46	1822	1864	13.375	61	12.515	12.581	54.5	TRUE	61
47	1864	1906	13.375	61	12.515	12.567	54.5	TRUE	61
48	1906	1948	13.375	61	12.515	12.588	54.5	TRUE	61
49	1948	1990	13.375	61	12.515	12.576	54.5	TRUE	61

Table A.36: BM-106B detailed section information taken on November 21, 2011

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	12	56	10.75	51	9.85	9.908	45.5	TRUE	51
2	56	100	10.75	51	9.85	9.903	45.5	TRUE	51
3	100	144	10.75	51	9.85	9.902	45.5	TRUE	51
4	144	187	10.75	51	9.85	9.901	45.5	TRUE	51
5	187	231	10.75	51	9.85	9.889	51	TRUE	51
6	231	276	10.75	51	9.85	9.894	51	TRUE	51
7	276	320	10.75	51	9.85	9.901	45.5	TRUE	51
8	320	364	10.75	51	9.85	9.890	51	TRUE	51
9	364	407	10.75	51	9.85	9.895	51	TRUE	51
10	407	452	10.75	51	9.85	9.904	45.5	TRUE	51
11	452	496	10.75	51	9.85	9.894	51	TRUE	51
12	496	542	10.75	51	9.85	9.896	51	TRUE	51
13	542	586	10.75	51	9.85	9.900	45.5	TRUE	51
14	586	630	10.75	51	9.85	9.892	51	TRUE	51
15	630	675	10.75	51	9.85	9.892	51	TRUE	51
16	675	720	10.75	51	9.85	9.899	51	TRUE	51
17	720	764	10.75	51	9.85	9.908	45.5	TRUE	51
18	764	808	10.75	51	9.85	9.906	45.5	TRUE	51
19	808	854	10.75	51	9.85	9.909	45.5	TRUE	51
20	854	898	10.75	51	9.85	9.900	45.5	TRUE	51
21	898	943	10.75	51	9.85	9.895	51	TRUE	51
22	943	989	10.75	51	9.85	9.887	51	TRUE	51
23	989	1033	10.75	51	9.85	9.907	45.5	TRUE	51
24	1033	1075	10.75	51	9.85	9.895	51	TRUE	51
25	1075	1120	10.75	51	9.85	9.898	51	TRUE	51
26	1120	1165	10.75	51	9.85	9.907	45.5	TRUE	51
27	1165	1209	10.75	51	9.85	9.890	51	TRUE	51
28	1209	1254	10.75	51	9.85	9.901	45.5	TRUE	51
29	1254	1298	10.75	51	9.85	9.898	51	TRUE	51
30	1298	1341	10.75	51	9.85	9.903	45.5	TRUE	51
31	1341	1385	10.75	51	9.85	9.889	51	TRUE	51
32	1385	1430	10.75	51	9.85	9.902	45.5	TRUE	51
33	1430	1475	10.75	51	9.85	9.903	45.5	TRUE	51
34	1475	1518	10.75	51	9.85	9.912	45.5	TRUE	51
35	1518	1563	10.75	51	9.85	9.908	45.5	TRUE	51
36	1563	1606	10.75	51	9.85	9.898	51	TRUE	51
37	1606	1651	10.75	51	9.85	9.889	51	TRUE	51
38	1651	1696	10.75	51	9.85	9.914	45.5	TRUE	51
39	1696	1742	10.75	51	9.85	9.891	51	TRUE	51
40	1742	1786	10.75	51	9.85	9.896	51	TRUE	51
41	1786	1829	10.75	51	9.85	9.902	45.5	TRUE	51
42	1829	1874	10.75	51	9.85	9.884	51	TRUE	51
43	1874	1919	10.75	51	9.85	9.902	45.5	TRUE	51
44	1919	1959	10.75	51	9.85	9.897	51	TRUE	51

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Table A.37: BM-106C detailed section information taken on December 10, 2011

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	31	13.375	61	12.515	12.592	54.5	TRUE	61
2	31	73	13.375	61	12.515	12.611	54.5	TRUE	61
3	73	117	13.375	61	12.515	12.610	54.5	TRUE	61
4	117	158	13.375	61	12.515	12.580	54.5	TRUE	61
5	158	196	13.375	61	12.515	12.632	54.5	FALSE	54.5
6	196	237	13.375	61	12.515	12.575	54.5	TRUE	61
7	237	278	13.375	61	12.515	12.616	54.5	TRUE	61
8	278	319	13.375	61	12.515	12.611	54.5	TRUE	61
9	319	360	13.375	61	12.515	12.637	54.5	FALSE	54.5
10	360	397	13.375	61	12.515	12.602	54.5	TRUE	61
11	397	439	13.375	61	12.515	12.597	54.5	TRUE	61
12	439	480	13.375	61	12.515	12.630	54.5	FALSE	54.5
13	480	520	13.375	61	12.515	12.582	54.5	TRUE	61
14	520	560	13.375	61	12.515	12.616	54.5	TRUE	61
15	560	601	13.375	61	12.515	12.595	54.5	TRUE	61
16	601	643	13.375	61	12.515	12.603	54.5	TRUE	61
17	643	684	13.375	61	12.515	12.595	54.5	TRUE	61
18	684	725	13.375	61	12.515	12.607	54.5	TRUE	61
19	725	768	13.375	61	12.515	12.589	54.5	TRUE	61
20	768	810	13.375	61	12.515	12.601	54.5	TRUE	61
21	810	849	13.375	61	12.515	12.601	54.5	TRUE	61
22	849	891	13.375	61	12.515	12.609	54.5	TRUE	61
23	891	931	13.375	61	12.515	12.608	54.5	TRUE	61
24	931	973	13.375	61	12.515	12.581	54.5	TRUE	61
25	973	1014	13.375	61	12.515	12.598	54.5	TRUE	61
26	1014	1056	13.375	61	12.515	12.597	54.5	TRUE	61
27	1056	1092	13.375	61	12.515	12.590	54.5	TRUE	61
28	1092	1130	13.375	61	12.515	12.574	54.5	TRUE	61
29	1130	1168	13.375	61	12.515	12.572	54.5	TRUE	61
30	1168	1202	13.375	61	12.515	12.481	61	TRUE	61
31	1202	1244	13.375	61	12.515	12.574	54.5	TRUE	61
32	1244	1286	13.375	61	12.515	12.604	54.5	TRUE	61
33	1286	1321	13.375	61	12.515	12.576	54.5	TRUE	61
34	1321	1358	13.375	61	12.515	12.579	54.5	TRUE	61
35	1358	1397	13.375	61	12.515	12.568	54.5	TRUE	61
36	1397	1434	13.375	61	12.515	12.480	61	TRUE	61
37	1434	1469	13.375	61	12.515	12.569	54.5	TRUE	61
38	1469	1508	13.375	61	12.515	12.583	54.5	TRUE	61
39	1508	1546	13.375	61	12.515	12.566	54.5	TRUE	61
40	1546	1589	13.375	61	12.515	12.577	54.5	TRUE	61
41	1589	1630	13.375	61	12.515	12.569	54.5	TRUE	61
42	1630	1670	13.375	61	12.515	12.589	54.5	TRUE	61
43	1670	1709	13.375	61	12.515	12.552	61	TRUE	61
44	1709	1748	13.375	61	12.515	12.551	61	TRUE	61
45	1748	1782	13.375	61	12.515	12.633	54.5	FALSE	54.5
46	1782	1824	13.375	61	12.515	12.571	54.5	TRUE	61
47	1824	1861	13.375	61	12.515	12.572	54.5	TRUE	61
48	1861	1901	13.375	61	12.515	12.603	54.5	TRUE	61
49	1901	1942	13.375	61	12.515	12.524	61	TRUE	61
50	1942	1980	13.375	61	12.515	12.538	61	TRUE	61

Table A.38: BM-106C detailed section information taken on February 3, 2017

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	29	13.375	61	12.515	12.508	61	TRUE	61
2	29	72	13.375	61	12.515	12.525	61	TRUE	61
3	72	115	13.375	61	12.515	12.528	61	TRUE	61
4	115	156	13.375	61	12.515	12.493	61	TRUE	61
5	156	194	13.375	61	12.515	12.553	61	TRUE	61
6	194	236	13.375	61	12.515	12.484	61	TRUE	61
7	236	277	13.375	61	12.515	12.529	61	TRUE	61
8	277	318	13.375	61	12.515	12.523	61	TRUE	61
9	318	358	13.375	61	12.515	12.550	61	TRUE	61
10	358	396	13.375	61	12.515	12.509	61	TRUE	61
11	396	438	13.375	61	12.515	12.508	61	TRUE	61
12	438	479	13.375	61	12.515	12.550	61	TRUE	61
13	479	519	13.375	61	12.515	12.498	61	TRUE	61
14	519	559	13.375	61	12.515	12.546	61	TRUE	61
15	559	600	13.375	61	12.515	12.511	61	TRUE	61
16	600	642	13.375	61	12.515	12.527	61	TRUE	61
17	642	683	13.375	61	12.515	12.526	61	TRUE	61
18	683	725	13.375	61	12.515	12.537	61	TRUE	61
19	725	767	13.375	61	12.515	12.522	61	TRUE	61
20	767	809	13.375	61	12.515	12.543	61	TRUE	61
21	809	849	13.375	61	12.515	12.535	61	TRUE	61
22	849	891	13.375	61	12.515	12.552	61	TRUE	61
23	891	931	13.375	61	12.515	12.563	61	TRUE	61
24	931	972	13.375	61	12.515	12.544	61	TRUE	61
25	972	1014	13.375	61	12.515	12.551	61	TRUE	61
26	1014	1056	13.375	61	12.515	12.559	61	TRUE	61
27	1056	1092	13.375	61	12.515	12.546	61	TRUE	61
28	1092	1130	13.375	61	12.515	12.549	61	TRUE	61
29	1130	1168	13.375	61	12.515	12.535	61	TRUE	61
30	1168	1202	13.375	61	12.515	12.444	68	TRUE	61
31	1202	1244	13.375	61	12.515	12.549	61	TRUE	61
32	1244	1286	13.375	61	12.515	12.581	54.5	TRUE	61
33	1286	1321	13.375	61	12.515	12.557	61	TRUE	61
34	1321	1358	13.375	61	12.515	12.554	61	TRUE	61
35	1358	1397	13.375	61	12.515	12.525	61	TRUE	61
36	1397	1435	13.375	61	12.515	12.447	68	TRUE	61
37	1435	1469	13.375	61	12.515	12.536	61	TRUE	61
38	1469	1509	13.375	61	12.515	12.554	61	TRUE	61
39	1509	1547	13.375	61	12.515	12.526	61	TRUE	61
40	1547	1589	13.375	61	12.515	12.543	61	TRUE	61
41	1589	1630	13.375	61	12.515	12.538	61	TRUE	61
42	1630	1670	13.375	61	12.515	12.558	61	TRUE	61
43	1670	1710	13.375	61	12.515	12.520	61	TRUE	61
44	1710	1749	13.375	61	12.515	12.525	61	TRUE	61
45	1749	1782	13.375	61	12.515	12.600	54.5	TRUE	61
46	1782	1824	13.375	61	12.515	12.548	61	TRUE	61
47	1824	1862	13.375	61	12.515	12.551	61	TRUE	61
48	1862	1902	13.375	61	12.515	12.571	54.5	TRUE	61
49	1902	1941	13.375	61	12.515	12.498	61	TRUE	61
50	1941	1980	13.375	61	12.515	12.523	61	TRUE	61

Table A.39: BM-106C detailed section information taken on February 8, 2017

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	30	13.375	61	12.515	12.563	61	TRUE	61
2	30	73	13.375	61	12.515	12.579	54.5	TRUE	61
3	73	116	13.375	61	12.515	12.572	54.5	TRUE	61
4	116	157	13.375	61	12.515	12.541	61	TRUE	61
5	157	195	13.375	61	12.515	12.595	54.5	TRUE	61
6	195	237	13.375	61	12.515	12.533	61	TRUE	61
7	237	278	13.375	61	12.515	12.575	54.5	TRUE	61
8	278	319	13.375	61	12.515	12.576	54.5	TRUE	61
9	319	359	13.375	61	12.515	12.600	54.5	TRUE	61
10	359	396	13.375	61	12.515	12.566	54.5	TRUE	61
11	396	439	13.375	61	12.515	12.556	61	TRUE	61
12	439	480	13.375	61	12.515	12.581	54.5	TRUE	61
13	480	520	13.375	61	12.515	12.545	61	TRUE	61
14	520	560	13.375	61	12.515	12.576	54.5	TRUE	61
15	560	600	13.375	61	12.515	12.552	61	TRUE	61
16	600	643	13.375	61	12.515	12.565	54.5	TRUE	61
17	643	684	13.375	61	12.515	12.561	61	TRUE	61
18	684	725	13.375	61	12.515	12.569	54.5	TRUE	61
19	725	768	13.375	61	12.515	12.548	61	TRUE	61
20	768	810	13.375	61	12.515	12.569	54.5	TRUE	61
21	810	849	13.375	61	12.515	12.573	54.5	TRUE	61
22	849	891	13.375	61	12.515	12.578	54.5	TRUE	61
23	891	931	13.375	61	12.515	12.573	54.5	TRUE	61
24	931	973	13.375	61	12.515	12.552	61	TRUE	61
25	973	1015	13.375	61	12.515	12.566	54.5	TRUE	61
26	1015	1057	13.375	61	12.515	12.574	54.5	TRUE	61
27	1057	1092	13.375	61	12.515	12.579	54.5	TRUE	61
28	1092	1131	13.375	61	12.515	12.561	61	TRUE	61
29	1131	1168	13.375	61	12.515	12.564	61	TRUE	61
30	1168	1203	13.375	61	12.515	12.490	61	TRUE	61
31	1203	1245	13.375	61	12.515	12.572	54.5	TRUE	61
32	1245	1287	13.375	61	12.515	12.617	54.5	TRUE	61
33	1287	1322	13.375	61	12.515	12.592	54.5	TRUE	61
34	1322	1358	13.375	61	12.515	12.594	54.5	TRUE	61
35	1358	1398	13.375	61	12.515	12.574	54.5	TRUE	61
36	1398	1435	13.375	61	12.515	12.491	61	TRUE	61
37	1435	1470	13.375	61	12.515	12.586	54.5	TRUE	61
38	1470	1510	13.375	61	12.515	12.598	54.5	TRUE	61
39	1510	1547	13.375	61	12.515	12.580	54.5	TRUE	61
40	1547	1590	13.375	61	12.515	12.588	54.5	TRUE	61
41	1590	1631	13.375	61	12.515	12.588	54.5	TRUE	61
42	1631	1671	13.375	61	12.515	12.597	54.5	TRUE	61
43	1671	1710	13.375	61	12.515	12.569	54.5	TRUE	61
44	1710	1749	13.375	61	12.515	12.571	54.5	TRUE	61
45	1749	1783	13.375	61	12.515	12.653	54.5	FALSE	54.5
46	1783	1825	13.375	61	12.515	12.602	54.5	TRUE	61
47	1825	1862	13.375	61	12.515	12.595	54.5	TRUE	61
48	1862	1902	13.375	61	12.515	12.631	54.5	FALSE	54.5
49	1902	1942	13.375	61	12.515	12.555	61	TRUE	61
50	1942	1980	13.375	61	12.515	12.582	54.5	TRUE	61

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Table A.40: BM-107A detailed section information taken on December 15, 2010

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	29	13.375	61	12.515	12.602	54.5	TRUE	61
2	29	70	13.375	61	12.515	12.610	54.5	TRUE	61
3	70	109	13.375	61	12.515	12.616	54.5	TRUE	61
4	109	149	13.375	61	12.515	12.601	54.5	TRUE	61
5	149	187	13.375	61	12.515	12.598	54.5	TRUE	61
6	187	229	13.375	61	12.515	12.615	54.5	TRUE	61
7	229	271	13.375	61	12.515	12.626	54.5	FALSE	54.5
8	271	311	13.375	61	12.515	12.616	54.5	TRUE	61
9	311	351	13.375	61	12.515	12.626	54.5	FALSE	54.5
10	351	393	13.375	61	12.515	12.604	54.5	TRUE	61
11	393	435	13.375	61	12.515	12.625	54.5	FALSE	54.5
12	435	476	13.375	61	12.515	12.616	54.5	TRUE	61
13	476	518	13.375	61	12.515	12.615	54.5	TRUE	61
14	518	560	13.375	61	12.515	12.635	54.5	FALSE	54.5
15	560	600	13.375	61	12.515	12.611	54.5	TRUE	61
16	600	638	13.375	61	12.515	12.615	54.5	TRUE	61
17	638	679	13.375	61	12.515	12.603	54.5	TRUE	61
18	679	720	13.375	61	12.515	12.601	54.5	TRUE	61
19	720	761	13.375	61	12.515	12.598	54.5	TRUE	61
20	761	803	13.375	61	12.515	12.610	54.5	TRUE	61
21	803	843	13.375	61	12.515	12.626	54.5	FALSE	54.5
22	843	885	13.375	61	12.515	12.594	54.5	TRUE	61
23	885	927	13.375	61	12.515	12.618	54.5	TRUE	61
24	927	968	13.375	61	12.515	12.595	54.5	TRUE	61
25	968	1010	13.375	61	12.515	12.616	54.5	TRUE	61
26	1010	1052	13.375	61	12.515	12.612	54.5	TRUE	61
27	1052	1094	13.375	61	12.515	12.624	54.5	FALSE	54.5
28	1094	1133	13.375	61	12.515	12.599	54.5	TRUE	61
29	1133	1174	13.375	61	12.515	12.623	54.5	FALSE	54.5
30	1174	1216	13.375	61	12.515	12.618	54.5	TRUE	61
31	1216	1258	13.375	61	12.515	12.600	54.5	TRUE	61
32	1258	1300	13.375	61	12.515	12.622	54.5	TRUE	61
33	1300	1341	13.375	61	12.515	12.612	54.5	TRUE	61
34	1341	1383	13.375	61	12.515	12.625	54.5	FALSE	54.5
35	1383	1425	13.375	61	12.515	12.611	54.5	TRUE	61
36	1425	1467	13.375	61	12.515	12.607	54.5	TRUE	61
37	1467	1509	13.375	61	12.515	12.595	54.5	TRUE	61
38	1509	1551	13.375	61	12.515	12.589	54.5	TRUE	61
39	1551	1593	13.375	61	12.515	12.590	54.5	TRUE	61
40	1593	1633	13.375	61	12.515	12.621	54.5	TRUE	61
41	1633	1674	13.375	61	12.515	12.573	54.5	TRUE	61
42	1674	1716	13.375	61	12.515	12.586	54.5	TRUE	61
43	1716	1758	13.375	61	12.515	12.585	54.5	TRUE	61
44	1758	1798	13.375	61	12.515	12.594	54.5	TRUE	61
45	1798	1839	13.375	61	12.515	12.595	54.5	TRUE	61
46	1839	1878	13.375	61	12.515	12.581	54.5	TRUE	61
47	1878	1920	13.375	61	12.515	12.584	54.5	TRUE	61
48	1920	1961	13.375	61	12.515	12.592	54.5	TRUE	61
49	1961	2001	13.375	61	12.515	12.576	54.5	TRUE	61

Table A.41: BM-107A detailed section information taken on December 17, 2015

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	28	13.375	61	12.515	12.551	61	TRUE	61
2	28	68	13.375	61	12.515	12.551	61	TRUE	61
3	68	107	13.375	61	12.515	12.559	61	TRUE	61
4	107	147	13.375	61	12.515	12.547	61	TRUE	61
5	147	186	13.375	61	12.515	12.545	61	TRUE	61
6	186	227	13.375	61	12.515	12.567	54.5	TRUE	61
7	227	269	13.375	61	12.515	12.581	54.5	TRUE	61
8	269	309	13.375	61	12.515	12.575	54.5	TRUE	61
9	309	350	13.375	61	12.515	12.587	54.5	TRUE	61
10	350	392	13.375	61	12.515	12.572	54.5	TRUE	61
11	392	433	13.375	61	12.515	12.594	54.5	TRUE	61
12	433	475	13.375	61	12.515	12.587	54.5	TRUE	61
13	475	516	13.375	61	12.515	12.591	54.5	TRUE	61
14	516	559	13.375	61	12.515	12.605	54.5	TRUE	61
15	559	599	13.375	61	12.515	12.590	54.5	TRUE	61
16	599	637	13.375	61	12.515	12.596	54.5	TRUE	61
17	637	678	13.375	61	12.515	12.580	54.5	TRUE	61
18	678	719	13.375	61	12.515	12.581	54.5	TRUE	61
19	719	760	13.375	61	12.515	12.575	54.5	TRUE	61
20	760	802	13.375	61	12.515	12.584	54.5	TRUE	61
21	802	842	13.375	61	12.515	12.599	54.5	TRUE	61
22	842	884	13.375	61	12.515	12.565	61	TRUE	61
23	884	926	13.375	61	12.515	12.588	54.5	TRUE	61
24	926	968	13.375	61	12.515	12.561	61	TRUE	61
25	968	1009	13.375	61	12.515	12.584	54.5	TRUE	61
26	1009	1051	13.375	61	12.515	12.575	54.5	TRUE	61
27	1051	1093	13.375	61	12.515	12.590	54.5	TRUE	61
28	1093	1132	13.375	61	12.515	12.560	61	TRUE	61
29	1132	1174	13.375	61	12.515	12.585	54.5	TRUE	61
30	1174	1216	13.375	61	12.515	12.581	54.5	TRUE	61
31	1216	1257	13.375	61	12.515	12.560	61	TRUE	61
32	1257	1299	13.375	61	12.515	12.582	54.5	TRUE	61
33	1299	1341	13.375	61	12.515	12.569	54.5	TRUE	61
34	1341	1383	13.375	61	12.515	12.584	54.5	TRUE	61
35	1383	1425	13.375	61	12.515	12.568	54.5	TRUE	61
36	1425	1467	13.375	61	12.515	12.565	54.5	TRUE	61
37	1467	1509	13.375	61	12.515	12.553	61	TRUE	61
38	1509	1551	13.375	61	12.515	12.551	61	TRUE	61
39	1551	1593	13.375	61	12.515	12.548	61	TRUE	61
40	1593	1632	13.375	61	12.515	12.580	54.5	TRUE	61
41	1632	1674	13.375	61	12.515	12.530	61	TRUE	61
42	1674	1715	13.375	61	12.515	12.546	61	TRUE	61
43	1715	1758	13.375	61	12.515	12.542	61	TRUE	61
44	1758	1798	13.375	61	12.515	12.553	61	TRUE	61
45	1798	1840	13.375	61	12.515	12.551	61	TRUE	61
46	1840	1878	13.375	61	12.515	12.538	61	TRUE	61
47	1878	1920	13.375	61	12.515	12.540	61	TRUE	61
48	1920	1962	13.375	61	12.515	12.547	61	TRUE	61
49	1962	2004	13.375	61	12.515	12.538	61	TRUE	61

Table A.42: BM-107A detailed section information taken on December 01, 2016

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	27	13.375	61	12.515	12.560	61	TRUE	61

Continued on next page

Table A.42 – Continued from previous page

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
2	27	66	13.375	61	12.515	12.560	61	TRUE	61
3	66	105	13.375	61	12.515	12.563	61	TRUE	61
4	105	145	13.375	61	12.515	12.551	61	TRUE	61
5	145	184	13.375	61	12.515	12.549	61	TRUE	61
6	184	226	13.375	61	12.515	12.568	54.5	TRUE	61
7	226	268	13.375	61	12.515	12.583	54.5	TRUE	61
8	268	308	13.375	61	12.515	12.568	54.5	TRUE	61
9	308	349	13.375	61	12.515	12.580	54.5	TRUE	61
10	349	390	13.375	61	12.515	12.556	61	TRUE	61
11	390	432	13.375	61	12.515	12.578	54.5	TRUE	61
12	432	474	13.375	61	12.515	12.579	54.5	TRUE	61
13	474	516	13.375	61	12.515	12.579	54.5	TRUE	61
14	516	558	13.375	61	12.515	12.584	54.5	TRUE	61
15	558	598	13.375	61	12.515	12.580	54.5	TRUE	61
16	598	636	13.375	61	12.515	12.585	54.5	TRUE	61
17	636	677	13.375	61	12.515	12.576	54.5	TRUE	61
18	677	719	13.375	61	12.515	12.575	54.5	TRUE	61
19	719	759	13.375	61	12.515	12.576	54.5	TRUE	61
20	759	802	13.375	61	12.515	12.594	54.5	TRUE	61
21	802	842	13.375	61	12.515	12.617	54.5	TRUE	61
22	842	884	13.375	61	12.515	12.588	54.5	TRUE	61
23	884	926	13.375	61	12.515	12.619	54.5	TRUE	61
24	926	967	13.375	61	12.515	12.596	54.5	TRUE	61
25	967	1009	13.375	61	12.515	12.597	54.5	TRUE	61
26	1009	1051	13.375	61	12.515	12.619	54.5	TRUE	61
27	1051	1093	13.375	61	12.515	12.630	54.5	FALSE	54.5
28	1093	1132	13.375	61	12.515	12.612	54.5	TRUE	61
29	1132	1174	13.375	61	12.515	12.633	54.5	FALSE	54.5
30	1174	1216	13.375	61	12.515	12.628	54.5	FALSE	54.5
31	1216	1257	13.375	61	12.515	12.606	54.5	TRUE	61
32	1257	1299	13.375	61	12.515	12.618	54.5	TRUE	61
33	1299	1341	13.375	61	12.515	12.605	54.5	TRUE	61
34	1341	1383	13.375	61	12.515	12.629	54.5	FALSE	54.5
35	1383	1425	13.375	61	12.515	12.614	54.5	TRUE	61
36	1425	1468	13.375	61	12.515	12.618	54.5	TRUE	61
37	1468	1510	13.375	61	12.515	12.598	54.5	TRUE	61
38	1510	1552	13.375	61	12.515	12.598	54.5	TRUE	61
39	1552	1593	13.375	61	12.515	12.597	54.5	TRUE	61
40	1593	1633	13.375	61	12.515	12.615	54.5	TRUE	61
41	1633	1675	13.375	61	12.515	12.579	54.5	TRUE	61
42	1675	1716	13.375	61	12.515	12.599	54.5	TRUE	61
43	1716	1759	13.375	61	12.515	12.588	54.5	TRUE	61
44	1759	1799	13.375	61	12.515	12.597	54.5	TRUE	61
45	1799	1841	13.375	61	12.515	12.608	54.5	TRUE	61
46	1841	1880	13.375	61	12.515	12.587	54.5	TRUE	61
47	1880	1921	13.375	61	12.515	12.578	54.5	TRUE	61
48	1921	1963	13.375	61	12.515	12.597	54.5	TRUE	61
49	1963	2004	13.375	61	12.515	12.586	54.5	TRUE	61

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Table A.43: BM-107B detailed section information taken on December 30, 2015

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	24	13.375	61	12.515	12.567	54.5	TRUE	61
2	24	66	13.375	61	12.515	12.559	61	TRUE	61
3	66	108	13.375	61	12.515	12.568	54.5	TRUE	61
4	108	149	13.375	61	12.515	12.547	61	TRUE	61
5	149	190	13.375	61	12.515	12.564	61	TRUE	61
6	190	232	13.375	61	12.515	12.545	61	TRUE	61
7	232	274	13.375	61	12.515	12.577	54.5	TRUE	61
8	274	316	13.375	61	12.515	12.582	54.5	TRUE	61
9	316	356	13.375	61	12.515	12.599	54.5	TRUE	61
10	356	395	13.375	61	12.515	12.571	54.5	TRUE	61
11	395	438	13.375	61	12.515	12.591	54.5	TRUE	61
12	438	480	13.375	61	12.515	12.604	54.5	TRUE	61
13	480	521	13.375	61	12.515	12.595	54.5	TRUE	61
14	521	562	13.375	61	12.515	12.588	54.5	TRUE	61
15	562	602	13.375	61	12.515	12.604	54.5	TRUE	61
16	602	644	13.375	61	12.515	12.578	54.5	TRUE	61
17	644	686	13.375	61	12.515	12.580	54.5	TRUE	61
18	686	729	13.375	61	12.515	12.597	54.5	TRUE	61
19	729	770	13.375	61	12.515	12.592	54.5	TRUE	61
20	770	811	13.375	61	12.515	12.577	54.5	TRUE	61
21	811	852	13.375	61	12.515	12.590	54.5	TRUE	61
22	852	896	13.375	61	12.515	12.593	54.5	TRUE	61
23	896	937	13.375	61	12.515	12.574	54.5	TRUE	61
24	937	979	13.375	61	12.515	12.566	54.5	TRUE	61
25	979	1022	13.375	61	12.515	12.597	54.5	TRUE	61
26	1022	1063	13.375	61	12.515	12.559	61	TRUE	61
27	1063	1100	13.375	61	12.515	12.577	54.5	TRUE	61
28	1100	1141	13.375	61	12.515	12.515	61	TRUE	61
29	1141	1183	13.375	61	12.515	12.560	61	TRUE	61
30	1183	1224	13.375	61	12.515	12.520	61	TRUE	61
31	1224	1263	13.375	61	12.515	12.552	61	TRUE	61
32	1263	1300	13.375	61	12.515	12.535	61	TRUE	61
33	1300	1341	13.375	61	12.515	12.535	61	TRUE	61
34	1341	1384	13.375	61	12.515	12.541	61	TRUE	61
35	1384	1421	13.375	61	12.515	12.560	61	TRUE	61
36	1421	1463	13.375	61	12.515	12.567	54.5	TRUE	61
37	1463	1505	13.375	61	12.515	12.552	61	TRUE	61
38	1505	1545	13.375	61	12.515	12.542	61	TRUE	61
39	1545	1586	13.375	61	12.515	12.555	61	TRUE	61
40	1586	1630	13.375	61	12.515	12.563	61	TRUE	61
41	1630	1671	13.375	61	12.515	12.534	61	TRUE	61
42	1671	1713	13.375	61	12.515	12.558	61	TRUE	61
43	1713	1755	13.375	61	12.515	12.573	54.5	TRUE	61
44	1755	1798	13.375	61	12.515	12.558	61	TRUE	61
45	1798	1838	13.375	61	12.515	12.570	54.5	TRUE	61
46	1838	1881	13.375	61	12.515	12.580	54.5	TRUE	61
47	1881	1924	13.375	61	12.515	12.556	61	TRUE	61
48	1924	1967	13.375	61	12.515	12.563	61	TRUE	61
49	1967	2009	13.375	61	12.515	12.554	61	TRUE	61

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Table A.44: BM-107C detailed section information taken on November 28, 2011

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	17	13.375	61	12.515	12.589	54.5	TRUE	61
2	17	59	13.375	61	12.515	12.562	61	TRUE	61
3	59	101	13.375	61	12.515	12.583	54.5	TRUE	61
4	101	142	13.375	61	12.515	12.606	54.5	TRUE	61
5	142	181	13.375	61	12.515	12.564	61	TRUE	61
6	181	222	13.375	61	12.515	12.610	54.5	TRUE	61
7	222	264	13.375	61	12.515	12.601	54.5	TRUE	61
8	264	305	13.375	61	12.515	12.588	54.5	TRUE	61
9	305	347	13.375	61	12.515	12.570	54.5	TRUE	61
10	347	389	13.375	61	12.515	12.582	54.5	TRUE	61
11	389	432	13.375	61	12.515	12.581	54.5	TRUE	61
12	432	474	13.375	61	12.515	12.589	54.5	TRUE	61
13	474	516	13.375	61	12.515	12.586	54.5	TRUE	61
14	516	557	13.375	61	12.515	12.595	54.5	TRUE	61
15	557	594	13.375	61	12.515	12.541	61	TRUE	61
16	594	636	13.375	61	12.515	12.602	54.5	TRUE	61
17	636	677	13.375	61	12.515	12.561	61	TRUE	61
18	677	715	13.375	61	12.515	12.597	54.5	TRUE	61
19	715	757	13.375	61	12.515	12.565	54.5	TRUE	61
20	757	798	13.375	61	12.515	12.590	54.5	TRUE	61
21	798	837	13.375	61	12.515	12.602	54.5	TRUE	61
22	837	879	13.375	61	12.515	12.609	54.5	TRUE	61
23	879	921	13.375	61	12.515	12.621	54.5	TRUE	61
24	921	963	13.375	61	12.515	12.562	61	TRUE	61
25	963	1001	13.375	61	12.515	12.564	61	TRUE	61
26	1001	1042	13.375	61	12.515	12.598	54.5	TRUE	61
27	1042	1084	13.375	61	12.515	12.602	54.5	TRUE	61
28	1084	1119	13.375	61	12.515	12.568	54.5	TRUE	61
29	1119	1161	13.375	61	12.515	12.602	54.5	TRUE	61
30	1161	1202	13.375	61	12.515	12.605	54.5	TRUE	61
31	1202	1244	13.375	61	12.515	12.600	54.5	TRUE	61
32	1244	1285	13.375	61	12.515	12.589	54.5	TRUE	61
33	1285	1327	13.375	61	12.515	12.587	54.5	TRUE	61
34	1327	1367	13.375	61	12.515	12.597	54.5	TRUE	61
35	1367	1409	13.375	61	12.515	12.588	54.5	TRUE	61
36	1409	1451	13.375	61	12.515	12.582	54.5	TRUE	61
37	1451	1493	13.375	61	12.515	12.595	54.5	TRUE	61
38	1493	1535	13.375	61	12.515	12.594	54.5	TRUE	61
39	1535	1577	13.375	61	12.515	12.675	48	FALSE	48
40	1577	1619	13.375	61	12.515	12.594	54.5	TRUE	61
41	1619	1657	13.375	61	12.515	12.586	54.5	TRUE	61
42	1657	1699	13.375	61	12.515	12.699	48	FALSE	48
43	1699	1741	13.375	61	12.515	12.593	54.5	TRUE	61
44	1741	1783	13.375	61	12.515	12.594	54.5	TRUE	61
45	1783	1824	13.375	61	12.515	12.577	54.5	TRUE	61
46	1824	1866	13.375	61	12.515	12.570	54.5	TRUE	61
47	1866	1908	13.375	61	12.515	12.596	54.5	TRUE	61
48	1908	1948	13.375	61	12.515	12.568	54.5	TRUE	61
49	1948	1992	13.375	61	12.515	12.563	61	TRUE	61

Table A.45: BM-107C detailed section information taken on November 21, 2016

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	16	13.375	61	12.515	12.564	61	TRUE	61
2	16	57	13.375	61	12.515	12.531	61	TRUE	61
3	57	99	13.375	61	12.515	12.550	61	TRUE	61
4	99	141	13.375	61	12.515	12.569	54.5	TRUE	61
5	141	180	13.375	61	12.515	12.525	61	TRUE	61
6	180	222	13.375	61	12.515	12.568	54.5	TRUE	61
7	222	263	13.375	61	12.515	12.565	54.5	TRUE	61
8	263	305	13.375	61	12.515	12.559	61	TRUE	61
9	305	344	13.375	61	12.515	12.546	61	TRUE	61
10	344	388	13.375	61	12.515	12.557	61	TRUE	61
11	388	431	13.375	61	12.515	12.550	61	TRUE	61
12	431	473	13.375	61	12.515	12.577	54.5	TRUE	61
13	473	515	13.375	61	12.515	12.573	54.5	TRUE	61
14	515	556	13.375	61	12.515	12.582	54.5	TRUE	61
15	556	593	13.375	61	12.515	12.539	61	TRUE	61
16	593	636	13.375	61	12.515	12.605	54.5	TRUE	61
17	636	676	13.375	61	12.515	12.575	54.5	TRUE	61
18	676	715	13.375	61	12.515	12.609	54.5	TRUE	61
19	715	757	13.375	61	12.515	12.584	54.5	TRUE	61
20	757	798	13.375	61	12.515	12.590	54.5	TRUE	61
21	798	837	13.375	61	12.515	12.611	54.5	TRUE	61
22	837	879	13.375	61	12.515	12.621	54.5	TRUE	61
23	879	922	13.375	61	12.515	12.637	54.5	FALSE	54.5
24	922	963	13.375	61	12.515	12.574	54.5	TRUE	61
25	963	1001	13.375	61	12.515	12.575	54.5	TRUE	61
26	1001	1042	13.375	61	12.515	12.611	54.5	TRUE	61
27	1042	1084	13.375	61	12.515	12.606	54.5	TRUE	61
28	1084	1119	13.375	61	12.515	12.579	54.5	TRUE	61
29	1119	1161	13.375	61	12.515	12.604	54.5	TRUE	61
30	1161	1202	13.375	61	12.515	12.615	54.5	TRUE	61
31	1202	1245	13.375	61	12.515	12.609	54.5	TRUE	61
32	1245	1286	13.375	61	12.515	12.601	54.5	TRUE	61
33	1286	1328	13.375	61	12.515	12.591	54.5	TRUE	61
34	1328	1368	13.375	61	12.515	12.601	54.5	TRUE	61
35	1368	1410	13.375	61	12.515	12.591	54.5	TRUE	61
36	1410	1451	13.375	61	12.515	12.580	54.5	TRUE	61
37	1451	1493	13.375	61	12.515	12.598	54.5	TRUE	61
38	1493	1536	13.375	61	12.515	12.597	54.5	TRUE	61
39	1536	1578	13.375	61	12.515	12.674	48	FALSE	48
40	1578	1620	13.375	61	12.515	12.597	54.5	TRUE	61
41	1620	1659	13.375	61	12.515	12.582	54.5	TRUE	61
42	1659	1700	13.375	61	12.515	12.686	48	FALSE	48
43	1700	1742	13.375	61	12.515	12.582	54.5	TRUE	61
44	1742	1784	13.375	61	12.515	12.600	54.5	TRUE	61
45	1784	1826	13.375	61	12.515	12.589	54.5	TRUE	61
46	1826	1867	13.375	61	12.515	12.584	54.5	TRUE	61
47	1867	1910	13.375	61	12.515	12.608	54.5	TRUE	61
48	1910	1949	13.375	61	12.515	12.587	54.5	TRUE	61
49	1949	1992	13.375	61	12.515	12.577	54.5	TRUE	61

A.27 Bryan Mound 108A

Table A.46: BM-108A detailed section information taken on April 14, 2010

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	28	13.375	61	12.515	12.564	61	TRUE	61
2	28	70	13.375	61	12.515	12.564	61	TRUE	61
3	70	111	13.375	61	12.515	12.555	61	TRUE	61
4	111	149	13.375	61	12.515	12.592	54.5	TRUE	61
5	149	183	13.375	61	12.515	12.559	61	TRUE	61
6	183	224	13.375	61	12.515	12.608	54.5	TRUE	61
7	224	262	13.375	61	12.515	12.599	54.5	TRUE	61
8	262	303	13.375	61	12.515	12.565	61	TRUE	61
9	303	341	13.375	61	12.515	12.586	54.5	TRUE	61
10	341	382	13.375	61	12.515	12.598	54.5	TRUE	61
11	382	424	13.375	61	12.515	12.598	54.5	TRUE	61
12	424	465	13.375	61	12.515	12.571	54.5	TRUE	61
13	465	503	13.375	61	12.515	12.571	54.5	TRUE	61
14	503	543	13.375	61	12.515	12.578	54.5	TRUE	61
15	543	584	13.375	61	12.515	12.586	54.5	TRUE	61
16	584	625	13.375	61	12.515	12.538	61	TRUE	61
17	625	666	13.375	61	12.515	12.532	61	TRUE	61
18	666	705	13.375	61	12.515	12.584	54.5	TRUE	61
19	705	747	13.375	61	12.515	12.564	61	TRUE	61
20	747	789	13.375	61	12.515	12.578	54.5	TRUE	61
21	789	829	13.375	61	12.515	12.549	61	TRUE	61
22	829	866	13.375	61	12.515	12.570	54.5	TRUE	61
23	866	907	13.375	61	12.515	12.560	61	TRUE	61
24	907	947	13.375	61	12.515	12.550	61	TRUE	61
25	947	988	13.375	61	12.515	12.549	61	TRUE	61
26	988	1028	13.375	61	12.515	12.550	61	TRUE	61
27	1028	1069	13.375	61	12.515	12.549	61	TRUE	61
28	1069	1109	13.375	61	12.515	12.564	61	TRUE	61
29	1109	1151	13.375	61	12.515	12.555	61	TRUE	61
30	1151	1193	13.375	61	12.515	12.555	61	TRUE	61
31	1193	1234	13.375	61	12.515	12.551	61	TRUE	61
32	1234	1274	13.375	61	12.515	12.538	61	TRUE	61
33	1274	1312	13.375	61	12.515	12.548	61	TRUE	61
34	1312	1351	13.375	61	12.515	12.559	61	TRUE	61
35	1351	1390	13.375	61	12.515	12.586	54.5	TRUE	61
36	1390	1431	13.375	61	12.515	12.551	61	TRUE	61
37	1431	1471	13.375	61	12.515	12.575	54.5	TRUE	61
38	1471	1513	13.375	61	12.515	12.572	54.5	TRUE	61
39	1513	1552	13.375	61	12.515	12.587	54.5	TRUE	61
40	1552	1592	13.375	61	12.515	12.587	54.5	TRUE	61
41	1592	1632	13.375	61	12.515	12.582	54.5	TRUE	61
42	1632	1673	13.375	61	12.515	12.551	61	TRUE	61
43	1673	1713	13.375	61	12.515	12.548	61	TRUE	61
44	1713	1753	13.375	61	12.515	12.532	61	TRUE	61
45	1753	1795	13.375	61	12.515	12.558	61	TRUE	61
46	1795	1836	13.375	61	12.515	12.551	61	TRUE	61
47	1836	1877	13.375	61	12.515	12.553	61	TRUE	61
48	1877	1913	13.375	61	12.515	12.533	61	TRUE	61
49	1913	1952	13.375	61	12.515	12.554	61	TRUE	61
50	1952	1994	13.375	61	12.515	12.554	61	TRUE	61
51	1994	2018	13.375	61	12.515	12.535	61	TRUE	61

A.28 Bryan Mound 108B

Table A.47: BM-108B detailed section information taken on August 5, 2011

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	44	13.375	61	12.515	12.589	54.5	TRUE	61
2	44	86	13.375	61	12.515	12.548	61	TRUE	61
3	86	128	13.375	61	12.515	12.579	54.5	TRUE	61
4	128	169	13.375	61	12.515	12.563	61	TRUE	61
5	169	211	13.375	61	12.515	12.570	54.5	TRUE	61
6	211	251	13.375	61	12.515	12.540	61	TRUE	61
7	251	292	13.375	61	12.515	12.548	61	TRUE	61
8	292	334	13.375	61	12.515	12.558	61	TRUE	61
9	334	375	13.375	61	12.515	12.553	61	TRUE	61
10	375	417	13.375	61	12.515	12.588	54.5	TRUE	61
11	417	459	13.375	61	12.515	12.548	61	TRUE	61
12	459	500	13.375	61	12.515	12.560	61	TRUE	61
13	500	542	13.375	61	12.515	12.570	54.5	TRUE	61
14	542	582	13.375	61	12.515	12.551	61	TRUE	61
15	582	624	13.375	61	12.515	12.563	61	TRUE	61
16	624	666	13.375	61	12.515	12.566	54.5	TRUE	61
17	666	707	13.375	61	12.515	12.565	61	TRUE	61
18	707	749	13.375	61	12.515	12.553	61	TRUE	61
19	749	790	13.375	61	12.515	12.567	54.5	TRUE	61
20	790	832	13.375	61	12.515	12.536	61	TRUE	61
21	832	874	13.375	61	12.515	12.529	61	TRUE	61
22	874	912	13.375	61	12.515	12.561	61	TRUE	61
23	912	954	13.375	61	12.515	12.536	61	TRUE	61
24	954	995	13.375	61	12.515	12.550	61	TRUE	61
25	995	1035	13.375	61	12.515	12.524	61	TRUE	61
26	1035	1076	13.375	61	12.515	12.571	54.5	TRUE	61
27	1076	1117	13.375	61	12.515	12.540	61	TRUE	61
28	1117	1158	13.375	61	12.515	12.531	61	TRUE	61
29	1158	1200	13.375	61	12.515	12.552	61	TRUE	61
30	1200	1242	13.375	61	12.515	12.553	61	TRUE	61
31	1242	1285	13.375	61	12.515	12.550	61	TRUE	61
32	1285	1325	13.375	61	12.515	12.581	54.5	TRUE	61
33	1325	1366	13.375	61	12.515	12.559	61	TRUE	61
34	1366	1407	13.375	61	12.515	12.542	61	TRUE	61
35	1407	1448	13.375	61	12.515	12.541	61	TRUE	61
36	1448	1490	13.375	61	12.515	12.555	61	TRUE	61
37	1490	1531	13.375	61	12.515	12.530	61	TRUE	61
38	1531	1570	13.375	61	12.515	12.557	61	TRUE	61
39	1570	1608	13.375	61	12.515	12.531	61	TRUE	61
40	1608	1650	13.375	61	12.515	12.560	61	TRUE	61
41	1650	1691	13.375	61	12.515	12.521	61	TRUE	61
42	1691	1731	13.375	61	12.515	12.509	61	TRUE	61
43	1731	1772	13.375	61	12.515	12.519	61	TRUE	61
44	1772	1813	13.375	61	12.515	12.555	61	TRUE	61
45	1813	1855	13.375	61	12.515	12.553	61	TRUE	61
46	1855	1897	13.375	61	12.515	12.540	61	TRUE	61
47	1897	1938	13.375	61	12.515	12.517	61	TRUE	61
48	1938	1980	13.375	61	12.515	12.598	54.5	TRUE	61

A.29 Bryan Mound 108C

Table A.48: BM-108C detailed section information taken on February 02, 2012

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	10	43	9.625	40	8.835	8.830	40	TRUE	40
2	43	84	9.625	40	8.835	8.835	40	TRUE	40
3	84	124	9.625	40	8.835	8.826	40	TRUE	40
4	124	163	9.625	40	8.835	8.826	40	TRUE	40
5	163	202	9.625	40	8.835	8.849	40	TRUE	40
6	202	244	9.625	40	8.835	8.843	40	TRUE	40
7	244	285	9.625	40	8.835	8.830	40	TRUE	40
8	285	324	9.625	40	8.835	8.829	40	TRUE	40
9	324	366	9.625	40	8.835	8.832	40	TRUE	40
10	366	407	9.625	40	8.835	8.845	40	TRUE	40
11	407	448	9.625	40	8.835	8.827	40	TRUE	40
12	448	487	9.625	40	8.835	8.838	40	TRUE	40
13	487	521	9.625	40	8.835	8.746	43.5	TRUE	40
14	521	563	9.625	40	8.835	8.850	40	TRUE	40
15	563	604	9.625	40	8.835	8.834	40	TRUE	40
16	604	639	9.625	40	8.835	8.835	40	TRUE	40
17	639	680	9.625	40	8.835	8.841	40	TRUE	40
18	680	713	9.625	40	8.835	8.728	43.5	FALSE	43.5
19	713	755	9.625	40	8.835	8.829	40	TRUE	40
20	755	795	9.625	40	8.835	8.843	40	TRUE	40
21	795	839	9.625	40	8.835	8.850	40	TRUE	40
22	839	879	9.625	40	8.835	8.843	40	TRUE	40
23	879	919	9.625	40	8.835	8.867	38	TRUE	40
24	919	959	9.625	40	8.835	8.820	40	TRUE	40
25	959	1000	9.625	40	8.835	8.875	38	TRUE	40
26	1000	1040	9.625	40	8.835	8.858	40	TRUE	40
27	1040	1081	9.625	40	8.835	8.837	40	TRUE	40
28	1081	1114	9.625	40	8.835	8.739	43.5	TRUE	40
29	1114	1152	9.625	40	8.835	8.768	43.5	TRUE	40
30	1152	1191	9.625	40	8.835	8.834	40	TRUE	40
31	1191	1229	9.625	40	8.835	8.833	40	TRUE	40
32	1229	1265	9.625	40	8.835	8.840	40	TRUE	40
33	1265	1305	9.625	40	8.835	8.828	40	TRUE	40
34	1305	1346	9.625	40	8.835	8.825	40	TRUE	40
35	1346	1387	9.625	40	8.835	8.848	40	TRUE	40
36	1387	1427	9.625	40	8.835	8.847	40	TRUE	40
37	1427	1466	9.625	40	8.835	8.752	43.5	TRUE	40
38	1466	1497	9.625	36	8.921	8.798	40	FALSE	40
39	1497	1529	9.625	36	8.921	8.841	40	TRUE	36
40	1529	1570	9.625	36	8.921	8.838	40	TRUE	36
41	1570	1613	9.625	36	8.921	8.842	40	TRUE	36
42	1613	1650	9.625	36	8.921	8.738	43.5	FALSE	43.5
43	1650	1684	9.625	36	8.921	8.727	43.5	FALSE	43.5
44	1684	1724	9.625	36	8.921	8.855	40	TRUE	36
45	1724	1764	9.625	36	8.921	8.694	47	FALSE	47
46	1764	1803	9.625	36	8.921	8.748	43.5	FALSE	43.5
47	1803	1843	9.625	36	8.921	8.853	40	TRUE	36
48	1843	1884	9.625	36	8.921	8.786	43.5	FALSE	43.5
49	1884	1926	9.625	36	8.921	8.855	40	TRUE	36
50	1926	1965	9.625	36	8.921	8.842	40	TRUE	36
51	1965	2006	9.625	36	8.921	8.848	40	TRUE	36
52	2006	2044	9.625	36	8.921	8.854	40	TRUE	36

A.30 Bryan Mound 109A

Table A.49: BM-109A detailed section information taken on January 19, 2012

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	21	13.375	61	12.515	12.574	54.5	TRUE	61
2	21	62	13.375	61	12.515	12.553	61	TRUE	61
3	62	104	13.375	61	12.515	12.565	54.5	TRUE	61
4	104	145	13.375	61	12.515	12.581	54.5	TRUE	61
5	145	184	13.375	61	12.515	12.545	61	TRUE	61
6	184	223	13.375	61	12.515	12.517	61	TRUE	61
7	223	263	13.375	61	12.515	12.584	54.5	TRUE	61
8	263	305	13.375	61	12.515	12.556	61	TRUE	61
9	305	346	13.375	61	12.515	12.573	54.5	TRUE	61
10	346	388	13.375	61	12.515	12.552	61	TRUE	61
11	388	430	13.375	61	12.515	12.546	61	TRUE	61
12	430	464	13.375	61	12.515	12.542	61	TRUE	61
13	464	506	13.375	61	12.515	12.584	54.5	TRUE	61
14	506	548	13.375	61	12.515	12.570	54.5	TRUE	61
15	548	589	13.375	61	12.515	12.573	54.5	TRUE	61
16	589	631	13.375	61	12.515	12.582	54.5	TRUE	61
17	631	670	13.375	61	12.515	12.556	61	TRUE	61
18	670	712	13.375	61	12.515	12.582	54.5	TRUE	61
19	712	750	13.375	61	12.515	12.546	61	TRUE	61
20	750	792	13.375	61	12.515	12.575	54.5	TRUE	61
21	792	831	13.375	61	12.515	12.559	61	TRUE	61
22	831	870	13.375	61	12.515	12.540	61	TRUE	61
23	870	912	13.375	61	12.515	12.571	54.5	TRUE	61
24	912	955	13.375	61	12.515	12.570	54.5	TRUE	61
25	955	993	13.375	61	12.515	12.529	61	TRUE	61
26	993	1028	13.375	61	12.515	12.555	61	TRUE	61
27	1028	1064	13.375	61	12.515	12.575	54.5	TRUE	61
28	1064	1103	13.375	61	12.515	12.564	61	TRUE	61
29	1103	1143	13.375	61	12.515	12.558	61	TRUE	61
30	1143	1177	13.375	61	12.515	12.530	61	TRUE	61
31	1177	1212	13.375	61	12.515	12.557	61	TRUE	61
32	1212	1246	13.375	61	12.515	12.543	61	TRUE	61
33	1246	1287	13.375	61	12.515	12.553	61	TRUE	61
34	1287	1329	13.375	61	12.515	12.579	54.5	TRUE	61
35	1329	1371	13.375	61	12.515	12.568	54.5	TRUE	61
36	1371	1409	13.375	61	12.515	12.562	61	TRUE	61
37	1409	1449	13.375	61	12.515	12.565	54.5	TRUE	61
38	1449	1491	13.375	61	12.515	12.548	61	TRUE	61
39	1491	1533	13.375	61	12.515	12.532	61	TRUE	61
40	1533	1575	13.375	61	12.515	12.556	61	TRUE	61
41	1575	1614	13.375	61	12.515	12.548	61	TRUE	61
42	1614	1655	13.375	61	12.515	12.568	54.5	TRUE	61
43	1655	1690	13.375	61	12.515	12.543	61	TRUE	61
44	1690	1731	13.375	61	12.515	12.554	61	TRUE	61
45	1731	1773	13.375	61	12.515	12.552	61	TRUE	61
46	1773	1812	13.375	61	12.515	12.553	61	TRUE	61
47	1812	1854	13.375	61	12.515	12.574	54.5	TRUE	61
48	1854	1896	13.375	61	12.515	12.561	61	TRUE	61
49	1896	1933	13.375	61	12.515	12.557	61	TRUE	61
50	1933	1970	13.375	61	12.515	12.527	61	TRUE	61

Table A.50: BM-109A detailed section information taken on July 7, 2016

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	16	13.375	61	12.515	12.563	61	TRUE	61
2	16	58	13.375	61	12.515	12.537	61	TRUE	61
3	58	100	13.375	61	12.515	12.545	61	TRUE	61
4	100	141	13.375	61	12.515	12.568	54.5	TRUE	61
5	141	180	13.375	61	12.515	12.537	61	TRUE	61
6	180	220	13.375	61	12.515	12.511	61	TRUE	61
7	220	259	13.375	61	12.515	12.591	54.5	TRUE	61
8	259	301	13.375	61	12.515	12.572	54.5	TRUE	61
9	301	342	13.375	61	12.515	12.600	54.5	TRUE	61
10	342	384	13.375	61	12.515	12.580	54.5	TRUE	61
11	384	427	13.375	61	12.515	12.574	54.5	TRUE	61
12	427	461	13.375	61	12.515	12.572	54.5	TRUE	61
13	461	502	13.375	61	12.515	12.616	54.5	TRUE	61
14	502	545	13.375	61	12.515	12.608	54.5	TRUE	61
15	545	585	13.375	61	12.515	12.604	54.5	TRUE	61
16	585	627	13.375	61	12.515	12.613	54.5	TRUE	61
17	627	667	13.375	61	12.515	12.588	54.5	TRUE	61
18	667	708	13.375	61	12.515	12.613	54.5	TRUE	61
19	708	747	13.375	61	12.515	12.574	54.5	TRUE	61
20	747	789	13.375	61	12.515	12.600	54.5	TRUE	61
21	789	828	13.375	61	12.515	12.584	54.5	TRUE	61
22	828	869	13.375	61	12.515	12.557	61	TRUE	61
23	869	909	13.375	61	12.515	12.586	54.5	TRUE	61
24	909	952	13.375	61	12.515	12.581	54.5	TRUE	61
25	952	990	13.375	61	12.515	12.541	61	TRUE	61
26	990	1025	13.375	61	12.515	12.577	54.5	TRUE	61
27	1025	1062	13.375	61	12.515	12.577	54.5	TRUE	61
28	1062	1100	13.375	61	12.515	12.570	54.5	TRUE	61
29	1100	1140	13.375	61	12.515	12.564	61	TRUE	61
30	1140	1175	13.375	61	12.515	12.533	61	TRUE	61
31	1175	1209	13.375	61	12.515	12.566	54.5	TRUE	61
32	1209	1244	13.375	61	12.515	12.556	61	TRUE	61
33	1244	1284	13.375	61	12.515	12.564	61	TRUE	61
34	1284	1326	13.375	61	12.515	12.585	54.5	TRUE	61
35	1326	1368	13.375	61	12.515	12.581	54.5	TRUE	61
36	1368	1407	13.375	61	12.515	12.572	54.5	TRUE	61
37	1407	1448	13.375	61	12.515	12.575	54.5	TRUE	61
38	1448	1489	13.375	61	12.515	12.556	61	TRUE	61
39	1489	1531	13.375	61	12.515	12.540	61	TRUE	61
40	1531	1573	13.375	61	12.515	12.559	61	TRUE	61
41	1573	1612	13.375	61	12.515	12.558	61	TRUE	61
42	1612	1654	13.375	61	12.515	12.577	54.5	TRUE	61
43	1654	1689	13.375	61	12.515	12.553	61	TRUE	61
44	1689	1730	13.375	61	12.515	12.562	61	TRUE	61
45	1730	1772	13.375	61	12.515	12.555	61	TRUE	61
46	1772	1811	13.375	61	12.515	12.555	61	TRUE	61
47	1811	1853	13.375	61	12.515	12.579	54.5	TRUE	61
48	1853	1895	13.375	61	12.515	12.565	54.5	TRUE	61
49	1895	1931	13.375	61	12.515	12.566	54.5	TRUE	61
50	1931	1970	13.375	61	12.515	12.529	61	TRUE	61

A.31 Bryan Mound 109B

Table A.51: BM-109B detailed section information taken on January 26, 2011

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	8	13.375	61	12.515	12.589	54.5	TRUE	61
2	8	50	13.375	61	12.515	12.616	54.5	TRUE	61
3	50	92	13.375	61	12.515	12.622	54.5	TRUE	61
4	92	133	13.375	61	12.515	12.602	54.5	TRUE	61
5	133	173	13.375	61	12.515	12.618	54.5	TRUE	61
6	173	214	13.375	61	12.515	12.630	54.5	FALSE	54.5
7	214	256	13.375	61	12.515	12.635	54.5	FALSE	54.5
8	256	297	13.375	61	12.515	12.608	54.5	TRUE	61
9	297	338	13.375	61	12.515	12.629	54.5	FALSE	54.5
10	338	380	13.375	61	12.515	12.630	54.5	FALSE	54.5
11	380	420	13.375	61	12.515	12.610	54.5	TRUE	61
12	420	462	13.375	61	12.515	12.626	54.5	FALSE	54.5
13	462	504	13.375	61	12.515	12.622	54.5	TRUE	61
14	504	543	13.375	61	12.515	12.618	54.5	TRUE	61
15	543	584	13.375	61	12.515	12.613	54.5	TRUE	61
16	584	626	13.375	61	12.515	12.622	54.5	TRUE	61
17	626	667	13.375	61	12.515	12.631	54.5	FALSE	54.5
18	667	708	13.375	61	12.515	12.606	54.5	TRUE	61
19	708	748	13.375	61	12.515	12.589	54.5	TRUE	61
20	748	790	13.375	61	12.515	12.613	54.5	TRUE	61
21	790	828	13.375	61	12.515	12.641	54.5	FALSE	54.5
22	828	869	13.375	61	12.515	12.624	54.5	FALSE	54.5
23	869	911	13.375	61	12.515	12.613	54.5	TRUE	61
24	911	951	13.375	61	12.515	12.610	54.5	TRUE	61
25	951	992	13.375	61	12.515	12.616	54.5	TRUE	61
26	992	1031	13.375	61	12.515	12.611	54.5	TRUE	61
27	1031	1073	13.375	61	12.515	12.623	54.5	FALSE	54.5
28	1073	1115	13.375	61	12.515	12.620	54.5	TRUE	61
29	1115	1156	13.375	61	12.515	12.602	54.5	TRUE	61
30	1156	1197	13.375	61	12.515	12.624	54.5	FALSE	54.5
31	1197	1238	13.375	61	12.515	12.614	54.5	TRUE	61
32	1238	1279	13.375	61	12.515	12.638	54.5	FALSE	54.5
33	1279	1318	13.375	61	12.515	12.620	54.5	TRUE	61
34	1318	1361	13.375	61	12.515	12.620	54.5	TRUE	61
35	1361	1404	13.375	61	12.515	12.612	54.5	TRUE	61
36	1404	1446	13.375	61	12.515	12.598	54.5	TRUE	61
37	1446	1488	13.375	61	12.515	12.607	54.5	TRUE	61
38	1488	1529	13.375	61	12.515	12.595	54.5	TRUE	61
39	1529	1571	13.375	61	12.515	12.636	54.5	FALSE	54.5
40	1571	1612	13.375	61	12.515	12.624	54.5	FALSE	54.5
41	1612	1653	13.375	61	12.515	12.591	54.5	TRUE	61
42	1653	1690	13.375	61	12.515	12.596	54.5	TRUE	61
43	1690	1729	13.375	61	12.515	12.604	54.5	TRUE	61
44	1729	1768	13.375	61	12.515	12.588	54.5	TRUE	61
45	1768	1810	13.375	61	12.515	12.615	54.5	TRUE	61
46	1810	1849	13.375	61	12.515	12.612	54.5	TRUE	61
47	1849	1890	13.375	61	12.515	12.604	54.5	TRUE	61
48	1890	1933	13.375	61	12.515	12.632	54.5	FALSE	54.5
49	1933	1975	13.375	61	12.515	12.577	54.5	TRUE	61

Table A.52: BM-109B detailed section information taken on January 15, 2016

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	47	13.375	61	12.515	12.640	54.5	FALSE	54.5
2	47	89	13.375	61	12.515	12.648	54.5	FALSE	54.5
3	89	130	13.375	61	12.515	12.628	54.5	FALSE	54.5
4	130	170	13.375	61	12.515	12.646	54.5	FALSE	54.5
5	170	212	13.375	61	12.515	12.659	54.5	FALSE	54.5
6	212	253	13.375	61	12.515	12.669	48	FALSE	48
7	253	294	13.375	61	12.515	12.642	54.5	FALSE	54.5
8	294	335	13.375	61	12.515	12.663	54.5	FALSE	54.5
9	335	377	13.375	61	12.515	12.666	48	FALSE	48
10	377	418	13.375	61	12.515	12.648	54.5	FALSE	54.5
11	418	460	13.375	61	12.515	12.664	54.5	FALSE	54.5
12	460	502	13.375	61	12.515	12.665	54.5	FALSE	54.5
13	502	541	13.375	61	12.515	12.660	54.5	FALSE	54.5
14	541	583	13.375	61	12.515	12.656	54.5	FALSE	54.5
15	583	624	13.375	61	12.515	12.666	48	FALSE	48
16	624	666	13.375	61	12.515	12.677	48	FALSE	48
17	666	706	13.375	61	12.515	12.652	54.5	FALSE	54.5
18	706	746	13.375	61	12.515	12.636	54.5	FALSE	54.5
19	746	789	13.375	61	12.515	12.658	54.5	FALSE	54.5
20	789	828	13.375	61	12.515	12.685	48	FALSE	48
21	828	868	13.375	61	12.515	12.668	48	FALSE	48
22	868	910	13.375	61	12.515	12.654	54.5	FALSE	54.5
23	910	950	13.375	61	12.515	12.649	54.5	FALSE	54.5
24	950	991	13.375	61	12.515	12.656	54.5	FALSE	54.5
25	991	1030	13.375	61	12.515	12.653	54.5	FALSE	54.5
26	1030	1072	13.375	61	12.515	12.665	54.5	FALSE	54.5
27	1072	1114	13.375	61	12.515	12.660	54.5	FALSE	54.5
28	1114	1155	13.375	61	12.515	12.643	54.5	FALSE	54.5
29	1155	1196	13.375	61	12.515	12.663	54.5	FALSE	54.5
30	1196	1237	13.375	61	12.515	12.653	54.5	FALSE	54.5
31	1237	1278	13.375	61	12.515	12.679	48	FALSE	48
32	1278	1317	13.375	61	12.515	12.657	54.5	FALSE	54.5
33	1317	1360	13.375	61	12.515	12.662	54.5	FALSE	54.5
34	1360	1403	13.375	61	12.515	12.653	54.5	FALSE	54.5
35	1403	1445	13.375	61	12.515	12.639	54.5	FALSE	54.5
36	1445	1487	13.375	61	12.515	12.647	54.5	FALSE	54.5
37	1487	1528	13.375	61	12.515	12.636	54.5	FALSE	54.5
38	1528	1570	13.375	61	12.515	12.673	48	FALSE	48
39	1570	1611	13.375	61	12.515	12.665	54.5	FALSE	54.5
40	1611	1652	13.375	61	12.515	12.632	54.5	FALSE	54.5
41	1652	1690	13.375	61	12.515	12.632	54.5	FALSE	54.5
42	1690	1729	13.375	61	12.515	12.641	54.5	FALSE	54.5
43	1729	1768	13.375	61	12.515	12.625	54.5	FALSE	54.5
44	1768	1810	13.375	61	12.515	12.652	54.5	FALSE	54.5
45	1810	1849	13.375	61	12.515	12.652	54.5	FALSE	54.5
46	1849	1891	13.375	61	12.515	12.638	54.5	FALSE	54.5
47	1891	1933	13.375	61	12.515	12.666	48	FALSE	48
48	1933	1975	13.375	61	12.515	12.601	54.5	TRUE	61

A.32 Bryan Mound 109C

Table A.53: BM-109C detailed section information taken on September 2, 2009

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	24	13.375	61	12.515	12.588	54.5	TRUE	61
2	24	65	13.375	61	12.515	12.589	54.5	TRUE	61
3	65	107	13.375	61	12.515	12.588	54.5	TRUE	61
4	107	149	13.375	61	12.515	12.568	54.5	TRUE	61
5	149	191	13.375	61	12.515	12.565	54.5	TRUE	61
6	191	233	13.375	61	12.515	12.579	54.5	TRUE	61
7	233	276	13.375	61	12.515	12.582	54.5	TRUE	61
8	276	318	13.375	61	12.515	12.578	54.5	TRUE	61
9	318	360	13.375	61	12.515	12.575	54.5	TRUE	61
10	360	397	13.375	61	12.515	12.550	61	TRUE	61
11	397	439	13.375	61	12.515	12.572	54.5	TRUE	61
12	439	482	13.375	61	12.515	12.578	54.5	TRUE	61
13	482	524	13.375	61	12.515	12.556	61	TRUE	61
14	524	567	13.375	61	12.515	12.583	54.5	TRUE	61
15	567	609	13.375	61	12.515	12.562	61	TRUE	61
16	609	651	13.375	61	12.515	12.576	54.5	TRUE	61
17	651	693	13.375	61	12.515	12.552	61	TRUE	61
18	693	735	13.375	61	12.515	12.567	54.5	TRUE	61
19	735	777	13.375	61	12.515	12.564	61	TRUE	61
20	777	818	13.375	61	12.515	12.542	61	TRUE	61
21	818	859	13.375	61	12.515	12.564	61	TRUE	61
22	859	901	13.375	61	12.515	12.578	54.5	TRUE	61
23	901	942	13.375	61	12.515	12.580	54.5	TRUE	61
24	942	985	13.375	61	12.515	12.563	61	TRUE	61
25	985	1024	13.375	61	12.515	12.553	61	TRUE	61
26	1024	1067	13.375	61	12.515	12.572	54.5	TRUE	61
27	1067	1109	13.375	61	12.515	12.566	54.5	TRUE	61
28	1109	1152	13.375	61	12.515	12.589	54.5	TRUE	61
29	1152	1194	13.375	61	12.515	12.551	61	TRUE	61
30	1194	1232	13.375	61	12.515	12.551	61	TRUE	61
31	1232	1273	13.375	61	12.515	12.551	61	TRUE	61
32	1273	1316	13.375	61	12.515	12.551	61	TRUE	61
33	1316	1357	13.375	61	12.515	12.534	61	TRUE	61
34	1357	1399	13.375	61	12.515	12.581	54.5	TRUE	61
35	1399	1441	13.375	61	12.515	12.545	61	TRUE	61
36	1441	1483	13.375	61	12.515	12.535	61	TRUE	61
37	1483	1525	13.375	61	12.515	12.567	54.5	TRUE	61
38	1525	1568	13.375	61	12.515	12.532	61	TRUE	61
39	1568	1611	13.375	61	12.515	12.590	54.5	TRUE	61
40	1611	1653	13.375	61	12.515	12.548	61	TRUE	61
41	1653	1695	13.375	61	12.515	12.560	61	TRUE	61
42	1695	1737	13.375	61	12.515	12.564	61	TRUE	61
43	1737	1779	13.375	61	12.515	12.538	61	TRUE	61
44	1779	1821	13.375	61	12.515	12.559	61	TRUE	61
45	1821	1862	13.375	61	12.515	12.556	61	TRUE	61
46	1862	1904	13.375	61	12.515	12.561	61	TRUE	61
47	1904	1946	13.375	61	12.515	12.556	61	TRUE	61
48	1946	1982	13.375	61	12.515	12.549	61	TRUE	61

A.33 Bryan Mound 110A

Table A.54: BM-110A detailed section information taken on November 03, 2011

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	23	52	13.375	54.5	12.615	12.674	48	TRUE	54.5
2	52	93	13.375	54.5	12.615	12.693	48	TRUE	54.5
3	93	133	13.375	54.5	12.615	12.703	48	TRUE	54.5
4	133	174	13.375	54.5	12.615	12.716	48	FALSE	48
5	174	213	13.375	54.5	12.615	12.674	48	TRUE	54.5
6	213	253	13.375	54.5	12.615	12.695	48	TRUE	54.5
7	253	292	13.375	54.5	12.615	12.728	48	FALSE	48
8	292	333	13.375	54.5	12.615	12.736	48	FALSE	48
9	333	374	13.375	54.5	12.615	12.721	48	FALSE	48
10	374	413	13.375	54.5	12.615	12.715	48	FALSE	48
11	413	455	13.375	54.5	12.615	12.738	48	FALSE	48
12	455	496	13.375	54.5	12.615	12.701	48	TRUE	54.5
13	496	536	13.375	54.5	12.615	12.698	48	TRUE	54.5
14	536	577	13.375	54.5	12.615	12.704	48	TRUE	54.5
15	577	618	13.375	54.5	12.615	12.714	48	FALSE	48
16	618	658	13.375	54.5	12.615	12.694	48	TRUE	54.5
17	658	698	13.375	54.5	12.615	12.724	48	FALSE	48
18	698	739	13.375	54.5	12.615	12.692	48	TRUE	54.5
19	739	778	13.375	54.5	12.615	12.699	48	TRUE	54.5
20	778	817	13.375	54.5	12.615	12.704	48	TRUE	54.5
21	817	858	13.375	54.5	12.615	12.732	48	FALSE	48
22	858	897	13.375	54.5	12.615	12.725	48	FALSE	48
23	897	938	13.375	54.5	12.615	12.725	48	FALSE	48
24	938	978	13.375	54.5	12.615	12.703	48	TRUE	54.5
25	978	1021	13.375	54.5	12.615	12.752	48	FALSE	48
26	1021	1060	13.375	54.5	12.615	12.706	48	TRUE	54.5
27	1060	1098	13.375	54.5	12.615	12.711	48	FALSE	48
28	1098	1139	13.375	54.5	12.615	12.732	48	FALSE	48
29	1139	1180	13.375	54.5	12.615	12.721	48	FALSE	48
30	1180	1223	13.375	54.5	12.615	12.741	48	FALSE	48
31	1223	1265	13.375	54.5	12.615	12.723	48	FALSE	48
32	1265	1303	13.375	54.5	12.615	12.710	48	FALSE	48
33	1303	1344	13.375	54.5	12.615	12.721	48	FALSE	48
34	1344	1383	13.375	54.5	12.615	12.662	54.5	TRUE	54.5
35	1383	1423	13.375	54.5	12.615	12.706	48	TRUE	54.5
36	1423	1465	13.375	54.5	12.615	12.724	48	FALSE	48
37	1465	1506	13.375	54.5	12.615	12.708	48	TRUE	54.5
38	1506	1549	13.375	54.5	12.615	12.728	48	FALSE	48
39	1549	1591	13.375	54.5	12.615	12.726	48	FALSE	48
40	1591	1632	13.375	54.5	12.615	12.722	48	FALSE	48
41	1632	1673	13.375	61	12.515	12.708	48	FALSE	48
42	1673	1714	13.375	61	12.515	12.623	54.5	FALSE	54.5
43	1714	1755	13.375	61	12.515	12.617	54.5	TRUE	61
44	1755	1796	13.375	61	12.515	12.629	54.5	FALSE	54.5
45	1796	1837	13.375	61	12.515	12.604	54.5	TRUE	61
46	1837	1878	13.375	61	12.515	12.613	54.5	TRUE	61
47	1878	1917	13.375	61	12.515	12.606	54.5	TRUE	61
48	1917	1958	13.375	61	12.515	12.621	54.5	TRUE	61
49	1958	1998	13.375	61	12.515	12.609	54.5	TRUE	61

Table A.55: BM-110A detailed section information taken on May 20, 2016

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	35	13.375	54.5	12.615	12.638	54.5	TRUE	54.5
2	35	77	13.375	54.5	12.615	12.648	54.5	TRUE	54.5
3	77	117	13.375	54.5	12.615	12.649	54.5	TRUE	54.5
4	117	158	13.375	54.5	12.615	12.665	48	TRUE	54.5
5	158	198	13.375	54.5	12.615	12.603	54.5	TRUE	54.5
6	198	238	13.375	54.5	12.615	12.638	54.5	TRUE	54.5
7	238	277	13.375	54.5	12.615	12.689	48	TRUE	54.5
8	277	318	13.375	54.5	12.615	12.696	48	TRUE	54.5
9	318	360	13.375	54.5	12.615	12.703	48	TRUE	54.5
10	360	399	13.375	54.5	12.615	12.689	48	TRUE	54.5
11	399	441	13.375	54.5	12.615	12.723	48	FALSE	48
12	441	483	13.375	54.5	12.615	12.692	48	TRUE	54.5
13	483	524	13.375	54.5	12.615	12.677	48	TRUE	54.5
14	524	565	13.375	54.5	12.615	12.686	48	TRUE	54.5
15	565	606	13.375	54.5	12.615	12.696	48	TRUE	54.5
16	606	647	13.375	54.5	12.615	12.687	48	TRUE	54.5
17	647	686	13.375	54.5	12.615	12.710	48	FALSE	48
18	686	728	13.375	54.5	12.615	12.672	48	TRUE	54.5
19	728	767	13.375	54.5	12.615	12.686	48	TRUE	54.5
20	767	807	13.375	54.5	12.615	12.688	48	TRUE	54.5
21	807	848	13.375	54.5	12.615	12.713	48	FALSE	48
22	848	888	13.375	54.5	12.615	12.677	48	TRUE	54.5
23	888	929	13.375	54.5	12.615	12.703	48	TRUE	54.5
24	929	970	13.375	54.5	12.615	12.675	48	TRUE	54.5
25	970	1012	13.375	54.5	12.615	12.726	48	FALSE	48
26	1012	1052	13.375	54.5	12.615	12.678	48	TRUE	54.5
27	1052	1090	13.375	54.5	12.615	12.680	48	TRUE	54.5
28	1090	1131	13.375	54.5	12.615	12.701	48	TRUE	54.5
29	1131	1173	13.375	54.5	12.615	12.695	48	TRUE	54.5
30	1173	1216	13.375	54.5	12.615	12.711	48	FALSE	48
31	1216	1258	13.375	54.5	12.615	12.691	48	TRUE	54.5
32	1258	1297	13.375	54.5	12.615	12.664	54.5	TRUE	54.5
33	1297	1338	13.375	54.5	12.615	12.688	48	TRUE	54.5
34	1338	1377	13.375	54.5	12.615	12.645	54.5	TRUE	54.5
35	1377	1417	13.375	54.5	12.615	12.677	48	TRUE	54.5
36	1417	1460	13.375	54.5	12.615	12.691	48	TRUE	54.5
37	1460	1502	13.375	54.5	12.615	12.669	48	TRUE	54.5
38	1502	1544	13.375	54.5	12.615	12.701	48	TRUE	54.5
39	1544	1587	13.375	54.5	12.615	12.699	48	TRUE	54.5
40	1587	1628	13.375	54.5	12.615	12.691	48	TRUE	54.5
41	1628	1670	13.375	61	12.515	12.678	48	FALSE	48
42	1670	1711	13.375	61	12.515	12.602	54.5	TRUE	61
43	1711	1752	13.375	61	12.515	12.589	54.5	TRUE	61
44	1752	1794	13.375	61	12.515	12.605	54.5	TRUE	61
45	1794	1835	13.375	61	12.515	12.586	54.5	TRUE	61
46	1835	1876	13.375	61	12.515	12.594	54.5	TRUE	61
47	1876	1917	13.375	61	12.515	12.585	54.5	TRUE	61
48	1917	1958	13.375	61	12.515	12.600	54.5	TRUE	61
49	1958	1998	13.375	61	12.515	12.588	54.5	TRUE	61

A.34 Bryan Mound 110B

Table A.56: BM-110B detailed section information taken on January 31, 2011

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	23	13.375	54.5	12.615	12.689	48	TRUE	54.5
2	23	64	13.375	54.5	12.615	12.705	48	TRUE	54.5
3	64	104	13.375	54.5	12.615	12.701	48	TRUE	54.5
4	104	142	13.375	54.5	12.615	12.686	48	TRUE	54.5
5	142	182	13.375	54.5	12.615	12.678	48	TRUE	54.5
6	182	219	13.375	54.5	12.615	12.697	48	TRUE	54.5
7	219	257	13.375	54.5	12.615	12.692	48	TRUE	54.5
8	257	296	13.375	54.5	12.615	12.682	48	TRUE	54.5
9	296	336	13.375	54.5	12.615	12.699	48	TRUE	54.5
10	336	374	13.375	54.5	12.615	12.643	54.5	TRUE	54.5
11	374	409	13.375	54.5	12.615	12.682	48	TRUE	54.5
12	409	450	13.375	54.5	12.615	12.693	48	TRUE	54.5
13	450	490	13.375	54.5	12.615	12.681	48	TRUE	54.5
14	490	527	13.375	54.5	12.615	12.697	48	TRUE	54.5
15	527	565	13.375	54.5	12.615	12.674	48	TRUE	54.5
16	565	606	13.375	54.5	12.615	12.683	48	TRUE	54.5
17	606	646	13.375	54.5	12.615	12.696	48	TRUE	54.5
18	646	685	13.375	54.5	12.615	12.659	54.5	TRUE	54.5
19	685	725	13.375	54.5	12.615	12.670	48	TRUE	54.5
20	725	766	13.375	54.5	12.615	12.683	48	TRUE	54.5
21	766	806	13.375	54.5	12.615	12.677	48	TRUE	54.5
22	806	847	13.375	54.5	12.615	12.670	48	TRUE	54.5
23	847	889	13.375	54.5	12.615	12.703	48	TRUE	54.5
24	889	930	13.375	54.5	12.615	12.692	48	TRUE	54.5
25	930	971	13.375	54.5	12.615	12.690	48	TRUE	54.5
26	971	1011	13.375	54.5	12.615	12.699	48	TRUE	54.5
27	1011	1051	13.375	54.5	12.615	12.656	54.5	TRUE	54.5
28	1051	1092	13.375	54.5	12.615	12.693	48	TRUE	54.5
29	1092	1133	13.375	54.5	12.615	12.683	48	TRUE	54.5
30	1133	1174	13.375	54.5	12.615	12.709	48	TRUE	54.5
31	1174	1215	13.375	54.5	12.615	12.701	48	TRUE	54.5
32	1215	1257	13.375	54.5	12.615	12.693	48	TRUE	54.5
33	1257	1296	13.375	54.5	12.615	12.695	48	TRUE	54.5
34	1296	1336	13.375	54.5	12.615	12.657	54.5	TRUE	54.5
35	1336	1376	13.375	54.5	12.615	12.673	48	TRUE	54.5
36	1376	1417	13.375	54.5	12.615	12.690	48	TRUE	54.5
37	1417	1459	13.375	54.5	12.615	12.680	48	TRUE	54.5
38	1459	1501	13.375	54.5	12.615	12.685	48	TRUE	54.5
39	1501	1541	13.375	54.5	12.615	12.686	48	TRUE	54.5
40	1541	1583	13.375	54.5	12.615	12.685	48	TRUE	54.5
41	1583	1621	13.375	54.5	12.615	12.679	48	TRUE	54.5
42	1621	1658	13.375	54.5	12.615	12.636	54.5	TRUE	54.5
43	1658	1698	13.375	54.5	12.615	12.579	54.5	TRUE	54.5
44	1698	1739	13.375	61	12.515	12.580	54.5	TRUE	61
45	1739	1780	13.375	61	12.515	12.588	54.5	TRUE	61
46	1780	1822	13.375	61	12.515	12.576	54.5	TRUE	61
47	1822	1862	13.375	61	12.515	12.574	54.5	TRUE	61
48	1862	1903	13.375	61	12.515	12.588	54.5	TRUE	61
49	1903	1944	13.375	61	12.515	12.595	54.5	TRUE	61
50	1944	1986	13.375	61	12.515	12.606	54.5	TRUE	61

Table A.57: BM-110B detailed section information taken on January 28, 2016

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	21	13.375	54.5	12.615	12.657	54.5	TRUE	54.5
2	21	62	13.375	54.5	12.615	12.672	48	TRUE	54.5
3	62	103	13.375	54.5	12.615	12.667	48	TRUE	54.5
4	103	140	13.375	54.5	12.615	12.652	54.5	TRUE	54.5
5	140	180	13.375	54.5	12.615	12.651	54.5	TRUE	54.5
6	180	218	13.375	54.5	12.615	12.666	48	TRUE	54.5
7	218	256	13.375	54.5	12.615	12.668	48	TRUE	54.5
8	256	294	13.375	54.5	12.615	12.655	54.5	TRUE	54.5
9	294	335	13.375	54.5	12.615	12.679	48	TRUE	54.5
10	335	373	13.375	54.5	12.615	12.623	54.5	TRUE	54.5
11	373	409	13.375	54.5	12.615	12.666	48	TRUE	54.5
12	409	450	13.375	54.5	12.615	12.677	48	TRUE	54.5
13	450	490	13.375	54.5	12.615	12.669	48	TRUE	54.5
14	490	527	13.375	54.5	12.615	12.683	48	TRUE	54.5
15	527	565	13.375	54.5	12.615	12.667	48	TRUE	54.5
16	565	606	13.375	54.5	12.615	12.677	48	TRUE	54.5
17	606	645	13.375	54.5	12.615	12.692	48	TRUE	54.5
18	645	685	13.375	54.5	12.615	12.656	54.5	TRUE	54.5
19	685	725	13.375	54.5	12.615	12.664	54.5	TRUE	54.5
20	725	766	13.375	54.5	12.615	12.680	48	TRUE	54.5
21	766	807	13.375	54.5	12.615	12.671	48	TRUE	54.5
22	807	848	13.375	54.5	12.615	12.667	48	TRUE	54.5
23	848	890	13.375	54.5	12.615	12.698	48	TRUE	54.5
24	890	931	13.375	54.5	12.615	12.687	48	TRUE	54.5
25	931	972	13.375	54.5	12.615	12.682	48	TRUE	54.5
26	972	1011	13.375	54.5	12.615	12.694	48	TRUE	54.5
27	1011	1052	13.375	54.5	12.615	12.648	54.5	TRUE	54.5
28	1052	1093	13.375	54.5	12.615	12.686	48	TRUE	54.5
29	1093	1134	13.375	54.5	12.615	12.673	48	TRUE	54.5
30	1134	1175	13.375	54.5	12.615	12.699	48	TRUE	54.5
31	1175	1216	13.375	54.5	12.615	12.690	48	TRUE	54.5
32	1216	1258	13.375	54.5	12.615	12.680	48	TRUE	54.5
33	1258	1297	13.375	54.5	12.615	12.683	48	TRUE	54.5
34	1297	1337	13.375	54.5	12.615	12.646	54.5	TRUE	54.5
35	1337	1377	13.375	54.5	12.615	12.661	54.5	TRUE	54.5
36	1377	1419	13.375	54.5	12.615	12.677	48	TRUE	54.5
37	1419	1460	13.375	54.5	12.615	12.671	48	TRUE	54.5
38	1460	1502	13.375	54.5	12.615	12.674	48	TRUE	54.5
39	1502	1542	13.375	54.5	12.615	12.677	48	TRUE	54.5
40	1542	1584	13.375	54.5	12.615	12.673	48	TRUE	54.5
41	1584	1622	13.375	54.5	12.615	12.667	48	TRUE	54.5
42	1622	1659	13.375	54.5	12.615	12.627	54.5	TRUE	54.5
43	1659	1700	13.375	54.5	12.615	12.572	54.5	TRUE	54.5
44	1700	1740	13.375	61	12.515	12.571	54.5	TRUE	61
45	1740	1782	13.375	61	12.515	12.579	54.5	TRUE	61
46	1782	1824	13.375	61	12.515	12.565	54.5	TRUE	61
47	1824	1864	13.375	61	12.515	12.564	61	TRUE	61
48	1864	1906	13.375	61	12.515	12.576	54.5	TRUE	61
49	1906	1946	13.375	61	12.515	12.584	54.5	TRUE	61
50	1946	1988	13.375	61	12.515	12.595	54.5	TRUE	61

A.35 Bryan Mound 110C

Table A.58: BM-110C detailed section information taken on September 22, 2009

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	19	13.375	61	12.515	12.547	61	TRUE	61
2	19	61	13.375	61	12.515	12.565	54.5	TRUE	61
3	61	102	13.375	61	12.515	12.601	54.5	TRUE	61
4	102	143	13.375	61	12.515	12.548	61	TRUE	61
5	143	184	13.375	61	12.515	12.551	61	TRUE	61
6	184	224	13.375	61	12.515	12.542	61	TRUE	61
7	224	266	13.375	61	12.515	12.557	61	TRUE	61
8	266	307	13.375	61	12.515	12.547	61	TRUE	61
9	307	349	13.375	61	12.515	12.544	61	TRUE	61
10	349	389	13.375	61	12.515	12.537	61	TRUE	61
11	389	431	13.375	61	12.515	12.555	61	TRUE	61
12	431	469	13.375	61	12.515	12.569	54.5	TRUE	61
13	469	510	13.375	61	12.515	12.547	61	TRUE	61
14	510	553	13.375	61	12.515	12.586	54.5	TRUE	61
15	553	594	13.375	61	12.515	12.553	61	TRUE	61
16	594	636	13.375	61	12.515	12.543	61	TRUE	61
17	636	677	13.375	61	12.515	12.536	61	TRUE	61
18	677	719	13.375	61	12.515	12.530	61	TRUE	61
19	719	760	13.375	61	12.515	12.548	61	TRUE	61
20	760	802	13.375	61	12.515	12.572	54.5	TRUE	61
21	802	844	13.375	61	12.515	12.553	61	TRUE	61
22	844	885	13.375	61	12.515	12.542	61	TRUE	61
23	885	927	13.375	61	12.515	12.564	61	TRUE	61
24	927	965	13.375	61	12.515	12.546	61	TRUE	61
25	965	1007	13.375	61	12.515	12.538	61	TRUE	61
26	1007	1049	13.375	61	12.515	12.549	61	TRUE	61
27	1049	1090	13.375	61	12.515	12.537	61	TRUE	61
28	1090	1129	13.375	61	12.515	12.529	61	TRUE	61
29	1129	1171	13.375	61	12.515	12.526	61	TRUE	61
30	1171	1211	13.375	61	12.515	12.551	61	TRUE	61
31	1211	1253	13.375	61	12.515	12.548	61	TRUE	61
32	1253	1294	13.375	61	12.515	12.566	54.5	TRUE	61
33	1294	1336	13.375	61	12.515	12.553	61	TRUE	61
34	1336	1377	13.375	61	12.515	12.523	61	TRUE	61
35	1377	1419	13.375	61	12.515	12.544	61	TRUE	61
36	1419	1458	13.375	61	12.515	12.545	61	TRUE	61
37	1458	1500	13.375	61	12.515	12.564	61	TRUE	61
38	1500	1539	13.375	61	12.515	12.537	61	TRUE	61
39	1539	1580	13.375	61	12.515	12.534	61	TRUE	61
40	1580	1623	13.375	61	12.515	12.560	61	TRUE	61
41	1623	1664	13.375	61	12.515	12.541	61	TRUE	61
42	1664	1706	13.375	61	12.515	12.525	61	TRUE	61
43	1706	1747	13.375	61	12.515	12.528	61	TRUE	61
44	1747	1789	13.375	61	12.515	12.531	61	TRUE	61
45	1789	1831	13.375	61	12.515	12.545	61	TRUE	61
46	1831	1872	13.375	61	12.515	12.539	61	TRUE	61
47	1872	1913	13.375	61	12.515	12.525	61	TRUE	61
48	1913	1956	13.375	61	12.515	12.584	54.5	TRUE	61
49	1956	1993	13.375	61	12.515	12.537	61	TRUE	61

Table A.59: BM-110C detailed section information taken on October 08, 2014

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	16	13.375	61	12.515	12.537	61	TRUE	61
2	16	58	13.375	61	12.515	12.562	61	TRUE	61
3	58	99	13.375	61	12.515	12.598	54.5	TRUE	61
4	99	140	13.375	61	12.515	12.549	61	TRUE	61
5	140	181	13.375	61	12.515	12.560	61	TRUE	61
6	181	221	13.375	61	12.515	12.540	61	TRUE	61
7	221	263	13.375	61	12.515	12.576	54.5	TRUE	61
8	263	304	13.375	61	12.515	12.572	54.5	TRUE	61
9	304	346	13.375	61	12.515	12.572	54.5	TRUE	61
10	346	387	13.375	61	12.515	12.561	61	TRUE	61
11	387	428	13.375	61	12.515	12.589	54.5	TRUE	61
12	428	466	13.375	61	12.515	12.603	54.5	TRUE	61
13	466	507	13.375	61	12.515	12.587	54.5	TRUE	61
14	507	550	13.375	61	12.515	12.629	54.5	FALSE	54.5
15	550	592	13.375	61	12.515	12.584	54.5	TRUE	61
16	592	633	13.375	61	12.515	12.570	54.5	TRUE	61
17	633	675	13.375	61	12.515	12.566	54.5	TRUE	61
18	675	716	13.375	61	12.515	12.560	61	TRUE	61
19	716	758	13.375	61	12.515	12.575	54.5	TRUE	61
20	758	800	13.375	61	12.515	12.587	54.5	TRUE	61
21	800	842	13.375	61	12.515	12.568	54.5	TRUE	61
22	842	883	13.375	61	12.515	12.569	54.5	TRUE	61
23	883	924	13.375	61	12.515	12.576	54.5	TRUE	61
24	924	963	13.375	61	12.515	12.561	61	TRUE	61
25	963	1005	13.375	61	12.515	12.534	61	TRUE	61
26	1005	1047	13.375	61	12.515	12.566	54.5	TRUE	61
27	1047	1088	13.375	61	12.515	12.548	61	TRUE	61
28	1088	1127	13.375	61	12.515	12.541	61	TRUE	61
29	1127	1169	13.375	61	12.515	12.534	61	TRUE	61
30	1169	1209	13.375	61	12.515	12.547	61	TRUE	61
31	1209	1251	13.375	61	12.515	12.549	61	TRUE	61
32	1251	1292	13.375	61	12.515	12.587	54.5	TRUE	61
33	1292	1334	13.375	61	12.515	12.588	54.5	TRUE	61
34	1334	1376	13.375	61	12.515	12.536	61	TRUE	61
35	1376	1417	13.375	61	12.515	12.562	61	TRUE	61
36	1417	1456	13.375	61	12.515	12.560	61	TRUE	61
37	1456	1498	13.375	61	12.515	12.570	54.5	TRUE	61
38	1498	1537	13.375	61	12.515	12.557	61	TRUE	61
39	1537	1578	13.375	61	12.515	12.534	61	TRUE	61
40	1578	1621	13.375	61	12.515	12.563	61	TRUE	61
41	1621	1663	13.375	61	12.515	12.558	61	TRUE	61
42	1663	1705	13.375	61	12.515	12.531	61	TRUE	61
43	1705	1746	13.375	61	12.515	12.534	61	TRUE	61
44	1746	1788	13.375	61	12.515	12.557	61	TRUE	61
45	1788	1830	13.375	61	12.515	12.564	61	TRUE	61
46	1830	1871	13.375	61	12.515	12.566	54.5	TRUE	61
47	1871	1912	13.375	61	12.515	12.557	61	TRUE	61
48	1912	1954	13.375	61	12.515	12.615	54.5	TRUE	61
49	1954	1994	13.375	61	12.515	12.570	54.5	TRUE	61

A.36 Bryan Mound 111A

Table A.60: BM-111A detailed section information taken on April 27, 2011

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	17	55	16	84	15.01	15.014	84	TRUE	84
2	55	94	16	84	15.01	15.029	84	TRUE	84
3	94	131	16	84	15.01	15.049	84	TRUE	84
4	131	169	16	84	15.01	14.998	84	TRUE	84
5	169	203	16	84	15.01	15.023	84	TRUE	84
6	203	242	16	84	15.01	15.028	84	TRUE	84
7	242	281	16	84	15.01	15.038	84	TRUE	84
8	281	321	16	84	15.01	15.025	84	TRUE	84
9	321	359	16	84	15.01	15.017	84	TRUE	84
10	359	397	16	84	15.01	15.039	84	TRUE	84
11	397	436	16	84	15.01	15.027	84	TRUE	84
12	436	473	16	84	15.01	15.014	84	TRUE	84
13	473	511	16	84	15.01	15.033	84	TRUE	84
14	511	550	16	84	15.01	15.055	84	TRUE	84
15	550	588	16	84	15.01	14.979	84	TRUE	84
16	588	625	16	84	15.01	15.019	84	TRUE	84
17	625	661	16	84	15.01	15.035	84	TRUE	84
18	661	702	16	84	15.01	15.043	84	TRUE	84
19	702	743	16	84	15.01	15.079	75	TRUE	84
20	743	784	16	84	15.01	15.032	84	TRUE	84
21	784	823	16	84	15.01	15.023	84	TRUE	84
22	823	861	16	84	15.01	15.001	84	TRUE	84
23	861	899	16	84	15.01	15.021	84	TRUE	84
24	899	936	16	84	15.01	15.001	84	TRUE	84
25	936	972	16	84	15.01	15.046	84	TRUE	84
26	972	1009	16	84	15.01	15.019	84	TRUE	84
27	1009	1047	16	84	15.01	14.988	84	TRUE	84
28	1047	1086	16	84	15.01	15.008	84	TRUE	84
29	1086	1123	16	84	15.01	15.022	84	TRUE	84
30	1123	1160	16	84	15.01	14.960	84	TRUE	84
31	1160	1198	16	84	15.01	14.994	84	TRUE	84
32	1198	1233	16	84	15.01	14.989	84	TRUE	84
33	1233	1272	16	84	15.01	15.072	75	TRUE	84
34	1272	1309	16	84	15.01	14.968	84	TRUE	84
35	1309	1349	16	84	15.01	15.004	84	TRUE	84
36	1349	1383	16	84	15.01	15.004	84	TRUE	84
37	1383	1422	16	84	15.01	15.050	84	TRUE	84
38	1422	1460	16	84	15.01	15.019	84	TRUE	84
39	1460	1497	16	84	15.01	15.014	84	TRUE	84
40	1497	1536	16	84	15.01	15.019	84	TRUE	84
41	1536	1575	16	84	15.01	15.031	84	TRUE	84
42	1575	1610	16	84	15.01	14.997	84	TRUE	84
43	1610	1650	16	84	15.01	15.052	84	TRUE	84
44	1650	1688	16	84	15.01	14.973	84	TRUE	84
45	1688	1725	16	84	15.01	14.962	84	TRUE	84
46	1725	1760	16	84	15.01	14.973	84	TRUE	84
47	1760	1795	16	84	15.01	14.981	84	TRUE	84
48	1795	1831	16	84	15.01	14.963	84	TRUE	84
49	1831	1869	16	84	15.01	15.019	84	TRUE	84
50	1869	1906	16	84	15.01	15.005	84	TRUE	84
51	1906	1944	16	84	15.01	15.051	84	TRUE	84
52	1944	1980	16	84	15.01	15.003	84	TRUE	84

A.37 Bryan Mound 111B

Table A.61: BM-111B detailed section information taken on September 16, 2011

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	44	16	84	15.01	15.055	84	TRUE	84
2	44	85	16	84	15.01	15.083	75	TRUE	84
3	85	125	16	84	15.01	15.160	75	FALSE	75
4	125	163	16	84	15.01	15.059	84	TRUE	84
5	163	202	16	84	15.01	15.061	84	TRUE	84
6	202	237	16	84	15.01	15.118	75	TRUE	84
7	237	273	16	84	15.01	15.086	75	TRUE	84
8	273	309	16	84	15.01	15.034	84	TRUE	84
9	309	348	16	84	15.01	15.113	75	TRUE	84
10	348	386	16	84	15.01	15.082	75	TRUE	84
11	386	423	16	84	15.01	15.051	84	TRUE	84
12	423	462	16	84	15.01	15.050	84	TRUE	84
13	462	501	16	84	15.01	15.081	75	TRUE	84
14	501	540	16	84	15.01	15.072	75	TRUE	84
15	540	580	16	84	15.01	15.059	84	TRUE	84
16	580	614	16	84	15.01	15.059	84	TRUE	84
17	614	652	16	84	15.01	15.111	75	TRUE	84
18	652	687	16	84	15.01	15.114	75	TRUE	84
19	687	724	16	84	15.01	15.067	75	TRUE	84
20	724	758	16	84	15.01	14.997	84	TRUE	84
21	758	793	16	84	15.01	15.128	75	TRUE	84
22	793	833	16	84	15.01	15.073	75	TRUE	84
23	833	871	16	84	15.01	15.024	84	TRUE	84
24	871	908	16	84	15.01	15.055	84	TRUE	84
25	908	946	16	84	15.01	15.077	75	TRUE	84
26	946	982	16	84	15.01	15.050	84	TRUE	84
27	982	1017	16	84	15.01	15.040	84	TRUE	84
28	1017	1052	16	84	15.01	15.074	75	TRUE	84
29	1052	1089	16	84	15.01	15.047	84	TRUE	84
30	1089	1128	16	84	15.01	15.109	75	TRUE	84
31	1128	1163	16	84	15.01	15.036	84	TRUE	84
32	1163	1197	16	84	15.01	15.073	75	TRUE	84
33	1197	1231	16	84	15.01	15.096	75	TRUE	84
34	1231	1269	16	84	15.01	15.058	84	TRUE	84
35	1269	1307	16	84	15.01	15.061	84	TRUE	84
36	1307	1345	16	84	15.01	15.022	84	TRUE	84
37	1345	1384	16	84	15.01	15.075	75	TRUE	84
38	1384	1424	16	84	15.01	15.020	84	TRUE	84
39	1424	1464	16	84	15.01	15.077	75	TRUE	84
40	1464	1500	16	84	15.01	15.061	84	TRUE	84
41	1500	1540	16	84	15.01	15.041	84	TRUE	84
42	1540	1575	16	84	15.01	15.030	84	TRUE	84
43	1575	1612	16	84	15.01	15.050	84	TRUE	84
44	1612	1648	16	84	15.01	15.030	84	TRUE	84
45	1648	1683	16	84	15.01	15.032	84	TRUE	84
46	1683	1723	16	84	15.01	15.061	84	TRUE	84
47	1723	1763	16	84	15.01	15.066	84	TRUE	84
48	1763	1802	16	84	15.01	15.012	84	TRUE	84
49	1802	1842	16	84	15.01	15.046	84	TRUE	84
50	1842	1882	16	84	15.01	15.001	84	TRUE	84
51	1882	1921	16	84	15.01	15.084	75	TRUE	84

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Table A.62: BM-112A detailed section information taken on May 05, 2011

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	9	48	16	75	15.124	15.162	75	TRUE	75
2	48	88	16	75	15.124	15.188	65	TRUE	75
3	88	128	16	75	15.124	15.188	65	TRUE	75
4	128	169	16	75	15.124	15.234	65	TRUE	75
5	169	203	16	75	15.124	15.183	75	TRUE	75
6	203	243	16	75	15.124	15.161	75	TRUE	75
7	243	284	16	75	15.124	15.171	75	TRUE	75
8	284	326	16	75	15.124	15.194	65	TRUE	75
9	326	366	16	75	15.124	15.161	75	TRUE	75
10	366	403	16	75	15.124	15.189	65	TRUE	75
11	403	445	16	75	15.124	15.186	75	TRUE	75
12	445	486	16	75	15.124	15.191	65	TRUE	75
13	486	526	16	75	15.124	15.162	75	TRUE	75
14	526	560	16	75	15.124	15.163	75	TRUE	75
15	560	602	16	75	15.124	15.179	75	TRUE	75
16	602	643	16	75	15.124	15.170	75	TRUE	75
17	643	682	16	75	15.124	15.186	75	TRUE	75
18	682	722	16	75	15.124	15.171	75	TRUE	75
19	722	764	16	75	15.124	15.190	65	TRUE	75
20	764	804	16	75	15.124	15.156	75	TRUE	75
21	804	842	16	75	15.124	15.201	65	TRUE	75
22	842	884	16	75	15.124	15.226	65	TRUE	75
23	884	926	16	75	15.124	15.235	65	FALSE	65
24	926	967	16	75	15.124	15.206	65	TRUE	75
25	967	1004	16	75	15.124	15.191	65	TRUE	75
26	1004	1044	16	75	15.124	15.163	75	TRUE	75
27	1044	1085	16	75	15.124	15.201	65	TRUE	75
28	1085	1124	16	75	15.124	15.163	75	TRUE	75
29	1124	1165	16	75	15.124	15.161	75	TRUE	75
30	1165	1206	16	75	15.124	15.161	75	TRUE	75
31	1206	1247	16	75	15.124	15.166	75	TRUE	75
32	1247	1288	16	75	15.124	15.156	75	TRUE	75
33	1288	1326	16	75	15.124	15.150	75	TRUE	75
34	1326	1364	16	75	15.124	15.170	75	TRUE	75
35	1364	1405	16	75	15.124	15.207	65	TRUE	75
36	1405	1441	16	75	15.124	15.174	75	TRUE	75
37	1441	1479	16	75	15.124	15.138	75	TRUE	75
38	1479	1518	16	75	15.124	15.147	75	TRUE	75
39	1518	1557	16	75	15.124	15.152	75	TRUE	75
40	1557	1599	16	75	15.124	15.196	65	TRUE	75
41	1599	1637	16	75	15.124	15.176	75	TRUE	75
42	1637	1676	16	75	15.124	15.041	84	TRUE	75
43	1676	1714	16	84	15.01	15.035	84	TRUE	84
44	1714	1749	16	84	15.01	15.055	84	TRUE	84
45	1749	1785	16	84	15.01	15.012	84	TRUE	84
46	1785	1822	16	84	15.01	14.997	84	TRUE	84
47	1822	1858	16	84	15.01	15.032	84	TRUE	84
48	1858	1894	16	84	15.01	15.032	84	TRUE	84
49	1894	1935	16	84	15.01	15.121	75	TRUE	84
50	1935	1974	16	84	15.01	15.077	75	TRUE	84

Table A.63: BM-112A detailed section information taken on August 15, 2015

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	10	50	16	75	15.124	15.156	75	TRUE	75
2	50	90	16	75	15.124	15.187	65	TRUE	75
3	90	130	16	75	15.124	15.185	75	TRUE	75
4	130	171	16	75	15.124	15.232	65	TRUE	75
5	171	205	16	75	15.124	15.179	75	TRUE	75
6	205	246	16	75	15.124	15.158	75	TRUE	75
7	246	286	16	75	15.124	15.163	75	TRUE	75
8	286	328	16	75	15.124	15.193	65	TRUE	75
9	328	368	16	75	15.124	15.157	75	TRUE	75
10	368	405	16	75	15.124	15.194	65	TRUE	75
11	405	447	16	75	15.124	15.186	75	TRUE	75
12	447	489	16	75	15.124	15.198	65	TRUE	75
13	489	529	16	75	15.124	15.164	75	TRUE	75
14	529	563	16	75	15.124	15.167	75	TRUE	75
15	563	605	16	75	15.124	15.192	65	TRUE	75
16	605	646	16	75	15.124	15.176	75	TRUE	75
17	646	686	16	75	15.124	15.192	65	TRUE	75
18	686	726	16	75	15.124	15.175	75	TRUE	75
19	726	767	16	75	15.124	15.196	65	TRUE	75
20	767	808	16	75	15.124	15.163	75	TRUE	75
21	808	846	16	75	15.124	15.215	65	TRUE	75
22	846	887	16	75	15.124	15.233	65	TRUE	75
23	887	929	16	75	15.124	15.250	65	FALSE	65
24	929	971	16	75	15.124	15.213	65	TRUE	75
25	971	1008	16	75	15.124	15.199	65	TRUE	75
26	1008	1048	16	75	15.124	15.182	75	TRUE	75
27	1048	1089	16	75	15.124	15.206	65	TRUE	75
28	1089	1128	16	75	15.124	15.178	75	TRUE	75
29	1128	1169	16	75	15.124	15.167	75	TRUE	75
30	1169	1210	16	75	15.124	15.174	75	TRUE	75
31	1210	1251	16	75	15.124	15.183	75	TRUE	75
32	1251	1292	16	75	15.124	15.174	75	TRUE	75
33	1292	1330	16	75	15.124	15.163	75	TRUE	75
34	1330	1369	16	75	15.124	15.191	65	TRUE	75
35	1369	1410	16	75	15.124	15.235	65	FALSE	65
36	1410	1445	16	75	15.124	15.194	65	TRUE	75
37	1445	1484	16	75	15.124	15.147	75	TRUE	75
38	1484	1523	16	75	15.124	15.156	75	TRUE	75
39	1523	1562	16	75	15.124	15.167	75	TRUE	75
40	1562	1603	16	75	15.124	15.219	65	TRUE	75
41	1603	1642	16	75	15.124	15.195	65	TRUE	75
42	1642	1681	16	75	15.124	15.040	84	TRUE	75
43	1681	1719	16	84	15.01	15.035	84	TRUE	84
44	1719	1754	16	84	15.01	15.062	84	TRUE	84
45	1754	1790	16	84	15.01	15.013	84	TRUE	84
46	1790	1828	16	84	15.01	14.997	84	TRUE	84
47	1828	1863	16	84	15.01	15.033	84	TRUE	84
48	1863	1899	16	84	15.01	15.024	84	TRUE	84
49	1899	1941	16	84	15.01	15.118	75	TRUE	84
50	1941	1988	16	84	15.01	15.080	75	TRUE	84

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Table A.64: BM-112C detailed section information taken on July 13, 2011

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	47	16	84	15.01	15.063	84	TRUE	84
2	47	87	16	84	15.01	15.100	75	TRUE	84
3	87	126	16	84	15.01	15.066	84	TRUE	84
4	126	167	16	84	15.01	15.093	75	TRUE	84
5	167	203	16	84	15.01	15.073	75	TRUE	84
6	203	242	16	84	15.01	15.078	75	TRUE	84
7	242	280	16	84	15.01	15.160	75	FALSE	75
8	280	320	16	84	15.01	15.062	84	TRUE	84
9	320	360	16	84	15.01	15.113	75	TRUE	84
10	360	399	16	84	15.01	15.045	84	TRUE	84
11	399	440	16	84	15.01	15.078	75	TRUE	84
12	440	479	16	84	15.01	15.057	84	TRUE	84
13	479	518	16	84	15.01	15.056	84	TRUE	84
14	518	556	16	84	15.01	15.053	84	TRUE	84
15	556	595	16	84	15.01	15.093	75	TRUE	84
16	595	633	16	84	15.01	15.036	84	TRUE	84
17	633	673	16	84	15.01	15.105	75	TRUE	84
18	673	713	16	84	15.01	15.096	75	TRUE	84
19	713	754	16	84	15.01	15.125	75	TRUE	84
20	754	794	16	84	15.01	15.084	75	TRUE	84
21	794	834	16	84	15.01	15.108	75	TRUE	84
22	834	874	16	84	15.01	15.140	75	FALSE	75
23	874	909	16	84	15.01	15.150	75	FALSE	75
24	909	948	16	84	15.01	15.081	75	TRUE	84
25	948	985	16	84	15.01	15.107	75	TRUE	84
26	985	1024	16	84	15.01	15.038	84	TRUE	84
27	1024	1062	16	84	15.01	15.074	75	TRUE	84
28	1062	1100	16	84	15.01	15.079	75	TRUE	84
29	1100	1141	16	84	15.01	15.087	75	TRUE	84
30	1141	1182	16	84	15.01	15.091	75	TRUE	84
31	1182	1223	16	84	15.01	15.085	75	TRUE	84
32	1223	1264	16	84	15.01	15.096	75	TRUE	84
33	1264	1305	16	84	15.01	15.061	84	TRUE	84
34	1305	1339	16	84	15.01	15.054	84	TRUE	84
35	1339	1377	16	84	15.01	15.070	75	TRUE	84
36	1377	1417	16	84	15.01	15.075	75	TRUE	84
37	1417	1457	16	84	15.01	15.114	75	TRUE	84
38	1457	1498	16	84	15.01	15.106	75	TRUE	84
39	1498	1538	16	84	15.01	15.071	75	TRUE	84
40	1538	1577	16	84	15.01	15.089	75	TRUE	84
41	1577	1614	16	84	15.01	15.059	84	TRUE	84
42	1614	1649	16	84	15.01	15.155	75	FALSE	75
43	1649	1687	16	84	15.01	15.034	84	TRUE	84
44	1687	1727	16	84	15.01	15.117	75	TRUE	84
45	1727	1763	16	84	15.01	15.116	75	TRUE	84
46	1763	1801	16	84	15.01	15.063	84	TRUE	84
47	1801	1840	16	84	15.01	15.097	75	TRUE	84
48	1840	1877	16	84	15.01	15.029	84	TRUE	84
49	1877	1917	16	84	15.01	15.119	75	TRUE	84
50	1917	1957	16	84	15.01	15.052	84	TRUE	84

Table A.65: BM-112C detailed section information taken on July 30, 2014

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	9	44	16	84	15.01	15.042	84	TRUE	84
2	44	84	16	84	15.01	15.069	75	TRUE	84
3	84	124	16	84	15.01	15.044	84	TRUE	84
4	124	164	16	84	15.01	15.066	84	TRUE	84
5	164	201	16	84	15.01	15.054	84	TRUE	84
6	201	238	16	84	15.01	15.061	84	TRUE	84
7	238	278	16	84	15.01	15.138	75	FALSE	75
8	278	318	16	84	15.01	15.044	84	TRUE	84
9	318	357	16	84	15.01	15.097	75	TRUE	84
10	357	397	16	84	15.01	15.030	84	TRUE	84
11	397	438	16	84	15.01	15.068	75	TRUE	84
12	438	477	16	84	15.01	15.044	84	TRUE	84
13	477	516	16	84	15.01	15.051	84	TRUE	84
14	516	554	16	84	15.01	15.041	84	TRUE	84
15	554	593	16	84	15.01	15.079	75	TRUE	84
16	593	631	16	84	15.01	15.025	84	TRUE	84
17	631	670	16	84	15.01	15.098	75	TRUE	84
18	670	711	16	84	15.01	15.087	75	TRUE	84
19	711	753	16	84	15.01	15.113	75	TRUE	84
20	753	792	16	84	15.01	15.080	75	TRUE	84
21	792	833	16	84	15.01	15.096	75	TRUE	84
22	833	874	16	84	15.01	15.124	75	TRUE	84
23	874	908	16	84	15.01	15.130	75	TRUE	84
24	908	947	16	84	15.01	15.072	75	TRUE	84
25	947	984	16	84	15.01	15.089	75	TRUE	84
26	984	1023	16	84	15.01	15.020	84	TRUE	84
27	1023	1062	16	84	15.01	15.068	75	TRUE	84
28	1062	1100	16	84	15.01	15.069	75	TRUE	84
29	1100	1141	16	84	15.01	15.084	75	TRUE	84
30	1141	1182	16	84	15.01	15.088	75	TRUE	84
31	1182	1224	16	84	15.01	15.080	75	TRUE	84
32	1224	1264	16	84	15.01	15.080	75	TRUE	84
33	1264	1305	16	84	15.01	15.056	84	TRUE	84
34	1305	1340	16	84	15.01	15.049	84	TRUE	84
35	1340	1377	16	84	15.01	15.065	84	TRUE	84
36	1377	1417	16	84	15.01	15.065	84	TRUE	84
37	1417	1458	16	84	15.01	15.111	75	TRUE	84
38	1458	1498	16	84	15.01	15.099	75	TRUE	84
39	1498	1539	16	84	15.01	15.061	84	TRUE	84
40	1539	1578	16	84	15.01	15.078	75	TRUE	84
41	1578	1615	16	84	15.01	15.048	84	TRUE	84
42	1615	1650	16	84	15.01	15.137	75	FALSE	75
43	1650	1688	16	84	15.01	15.020	84	TRUE	84
44	1688	1728	16	84	15.01	15.100	75	TRUE	84
45	1728	1765	16	84	15.01	15.097	75	TRUE	84
46	1765	1803	16	84	15.01	15.039	84	TRUE	84
47	1803	1841	16	84	15.01	15.081	75	TRUE	84
48	1841	1878	16	84	15.01	15.007	84	TRUE	84
49	1878	1919	16	84	15.01	15.096	75	TRUE	84
50	1919	1959	16	84	15.01	15.027	84	TRUE	84
51	1959	1998	16	84	15.01	15.068	75	TRUE	84

Table A.66: BM-112C detailed section information taken on October 20, 2014

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	49	13.375	68	12.415	12.462	68	TRUE	68
2	49	91	13.375	68	12.415	12.448	68	TRUE	68
3	91	132	13.375	68	12.415	12.460	68	TRUE	68
4	132	173	13.375	68	12.415	12.443	68	TRUE	68
5	173	214	13.375	68	12.415	12.436	68	TRUE	68
6	214	255	13.375	68	12.415	12.448	68	TRUE	68
7	255	296	13.375	68	12.415	12.496	61	TRUE	68
8	296	337	13.375	68	12.415	12.434	68	TRUE	68
9	337	379	13.375	68	12.415	12.453	68	TRUE	68
10	379	420	13.375	68	12.415	12.460	68	TRUE	68
11	420	462	13.375	68	12.415	12.505	61	TRUE	68
12	462	501	13.375	68	12.415	12.513	61	TRUE	68
13	501	542	13.375	68	12.415	12.488	61	TRUE	68
14	542	583	13.375	68	12.415	12.452	68	TRUE	68
15	583	622	13.375	68	12.415	12.441	68	TRUE	68
16	622	662	13.375	68	12.415	12.457	68	TRUE	68
17	662	704	13.375	68	12.415	12.498	61	TRUE	68
18	704	743	13.375	68	12.415	12.458	68	TRUE	68
19	743	784	13.375	68	12.415	12.487	61	TRUE	68
20	784	825	13.375	68	12.415	12.433	68	TRUE	68
21	825	868	13.375	68	12.415	12.463	68	TRUE	68
22	868	910	13.375	68	12.415	12.484	61	TRUE	68
23	910	950	13.375	68	12.415	12.444	68	TRUE	68
24	950	989	13.375	68	12.415	12.450	68	TRUE	68
25	989	1028	13.375	68	12.415	12.453	68	TRUE	68
26	1028	1070	13.375	68	12.415	12.456	68	TRUE	68
27	1070	1104	13.375	68	12.415	12.425	68	TRUE	68
28	1104	1149	13.375	68	12.415	12.448	68	TRUE	68
29	1149	1189	13.375	68	12.415	12.461	68	TRUE	68
30	1189	1230	13.375	68	12.415	12.484	61	TRUE	68
31	1230	1271	13.375	68	12.415	12.480	61	TRUE	68
32	1271	1312	13.375	68	12.415	12.464	68	TRUE	68
33	1312	1353	13.375	68	12.415	12.466	61	TRUE	68
34	1353	1392	13.375	68	12.415	12.464	68	TRUE	68
35	1392	1433	13.375	68	12.415	12.466	61	TRUE	68
36	1433	1473	13.375	68	12.415	12.504	61	TRUE	68
37	1473	1514	13.375	68	12.415	12.455	68	TRUE	68
38	1514	1553	13.375	68	12.415	12.481	61	TRUE	68
39	1553	1592	13.375	68	12.415	12.460	68	TRUE	68
40	1592	1630	13.375	68	12.415	12.518	61	TRUE	68
41	1630	1669	13.375	68	12.415	12.463	68	TRUE	68
42	1669	1710	13.375	68	12.415	12.486	61	TRUE	68
43	1710	1753	13.375	68	12.415	12.499	61	TRUE	68
44	1753	1792	13.375	68	12.415	12.467	61	TRUE	68
45	1792	1837	13.375	68	12.415	12.490	61	TRUE	68
46	1837	1878	13.375	68	12.415	12.476	61	TRUE	68
47	1878	1919	13.375	68	12.415	12.454	68	TRUE	68

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Table A.67: BM-113A detailed section information taken on January 25, 2011

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	3	35	13.375	61	12.515	12.560	61	TRUE	61
2	35	76	13.375	61	12.515	12.564	61	TRUE	61
3	76	113	13.375	54.5	12.615	12.648	54.5	TRUE	54.5
4	113	154	13.375	54.5	12.615	12.713	48	FALSE	48
5	154	191	13.375	54.5	12.615	12.694	48	TRUE	54.5
6	191	233	13.375	54.5	12.615	12.655	54.5	TRUE	54.5
7	233	268	13.375	54.5	12.615	12.709	48	TRUE	54.5
8	268	310	13.375	54.5	12.615	12.708	48	TRUE	54.5
9	310	349	13.375	54.5	12.615	12.717	48	FALSE	48
10	349	391	13.375	54.5	12.615	12.680	48	TRUE	54.5
11	391	429	13.375	54.5	12.615	12.688	48	TRUE	54.5
12	429	466	13.375	54.5	12.615	12.718	48	FALSE	48
13	466	503	13.375	54.5	12.615	12.683	48	TRUE	54.5
14	503	539	13.375	54.5	12.615	12.683	48	TRUE	54.5
15	539	573	13.375	54.5	12.615	12.660	54.5	TRUE	54.5
16	573	606	13.375	54.5	12.615	12.740	48	FALSE	48
17	606	639	13.375	54.5	12.615	12.707	48	TRUE	54.5
18	639	676	13.375	54.5	12.615	12.719	48	FALSE	48
19	676	715	13.375	54.5	12.615	12.731	48	FALSE	48
20	715	753	13.375	54.5	12.615	12.727	48	FALSE	48
21	753	790	13.375	54.5	12.615	12.652	54.5	TRUE	54.5
22	790	828	13.375	54.5	12.615	12.687	48	TRUE	54.5
23	828	866	13.375	54.5	12.615	12.671	48	TRUE	54.5
24	866	905	13.375	54.5	12.615	12.673	48	TRUE	54.5
25	905	945	13.375	54.5	12.615	12.692	48	TRUE	54.5
26	945	980	13.375	54.5	12.615	12.705	48	TRUE	54.5
27	980	1020	13.375	54.5	12.615	12.694	48	TRUE	54.5
28	1020	1060	13.375	54.5	12.615	12.657	54.5	TRUE	54.5
29	1060	1100	13.375	54.5	12.615	12.665	54.5	TRUE	54.5
30	1100	1141	13.375	54.5	12.615	12.676	48	TRUE	54.5
31	1141	1179	13.375	54.5	12.615	12.651	54.5	TRUE	54.5
32	1179	1215	13.375	54.5	12.615	12.654	54.5	TRUE	54.5
33	1215	1257	13.375	54.5	12.615	12.674	48	TRUE	54.5
34	1257	1294	13.375	54.5	12.615	12.686	48	TRUE	54.5
35	1294	1335	13.375	54.5	12.615	12.660	54.5	TRUE	54.5
36	1335	1372	13.375	54.5	12.615	12.677	48	TRUE	54.5
37	1372	1413	13.375	54.5	12.615	12.668	48	TRUE	54.5
38	1413	1449	13.375	54.5	12.615	12.638	54.5	TRUE	54.5
39	1449	1489	13.375	54.5	12.615	12.670	48	TRUE	54.5
40	1489	1525	13.375	61	12.51	12.649	54.5	FALSE	54.5
41	1525	1564	13.375	61	12.51	12.550	61	TRUE	61
42	1564	1605	13.375	61	12.51	12.549	61	TRUE	61
43	1605	1644	13.375	61	12.51	12.559	61	TRUE	61
44	1644	1682	13.375	61	12.51	12.552	61	TRUE	61
45	1682	1723	13.375	61	12.51	12.573	54.5	TRUE	61
46	1723	1761	13.375	61	12.51	12.564	61	TRUE	61
47	1761	1802	13.375	61	12.51	12.535	61	TRUE	61
48	1802	1839	13.375	61	12.51	12.535	61	TRUE	61
49	1839	1878	13.375	61	12.51	12.531	61	TRUE	61
50	1878	1917	13.375	61	12.51	12.582	54.5	TRUE	61
51	1917	1956	13.375	61	12.51	12.540	61	TRUE	61
52	1956	1992	13.375	61	12.51	12.552	61	TRUE	61

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Table A.68: BM-113B detailed section information taken on October 01, 2008

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	10	50	13.375	61	12.515	12.563	61	TRUE	61
2	50	91	13.375	61	12.515	12.545	61	TRUE	61
3	91	126	13.375	54.5	12.615	12.645	54.5	TRUE	54.5
4	126	166	13.375	54.5	12.615	12.660	54.5	TRUE	54.5
5	166	204	13.375	54.5	12.615	12.674	48	TRUE	54.5
6	204	246	13.375	54.5	12.615	12.669	48	TRUE	54.5
7	246	280	13.375	54.5	12.615	12.664	54.5	TRUE	54.5
8	280	315	13.375	54.5	12.615	12.651	54.5	TRUE	54.5
9	315	350	13.375	54.5	12.615	12.677	48	TRUE	54.5
10	350	386	13.375	54.5	12.615	12.605	54.5	TRUE	54.5
11	386	422	13.375	54.5	12.615	12.668	48	TRUE	54.5
12	422	461	13.375	54.5	12.615	12.651	54.5	TRUE	54.5
13	461	503	13.375	54.5	12.615	12.659	54.5	TRUE	54.5
14	503	542	13.375	54.5	12.615	12.664	54.5	TRUE	54.5
15	542	581	13.375	54.5	12.615	12.649	54.5	TRUE	54.5
16	581	621	13.375	54.5	12.615	12.663	54.5	TRUE	54.5
17	621	660	13.375	54.5	12.615	12.659	54.5	TRUE	54.5
18	660	697	13.375	54.5	12.615	12.657	54.5	TRUE	54.5
19	697	736	13.375	54.5	12.615	12.696	48	TRUE	54.5
20	736	776	13.375	54.5	12.615	12.649	54.5	TRUE	54.5
21	776	817	13.375	54.5	12.615	12.664	54.5	TRUE	54.5
22	817	853	13.375	54.5	12.615	12.673	48	TRUE	54.5
23	853	892	13.375	54.5	12.615	12.653	54.5	TRUE	54.5
24	892	927	13.375	54.5	12.615	12.674	48	TRUE	54.5
25	927	967	13.375	54.5	12.615	12.663	54.5	TRUE	54.5
26	967	1001	13.375	54.5	12.615	12.666	48	TRUE	54.5
27	1001	1041	13.375	54.5	12.615	12.690	48	TRUE	54.5
28	1041	1078	13.375	54.5	12.615	12.644	54.5	TRUE	54.5
29	1078	1115	13.375	54.5	12.615	12.620	54.5	TRUE	54.5
30	1115	1156	13.375	54.5	12.615	12.643	54.5	TRUE	54.5
31	1156	1198	13.375	54.5	12.615	12.661	54.5	TRUE	54.5
32	1198	1237	13.375	54.5	12.615	12.659	54.5	TRUE	54.5
33	1237	1275	13.375	54.5	12.615	12.620	54.5	TRUE	54.5
34	1275	1316	13.375	54.5	12.615	12.652	54.5	TRUE	54.5
35	1316	1350	13.375	54.5	12.615	12.663	54.5	TRUE	54.5
36	1350	1390	13.375	54.5	12.615	12.636	54.5	TRUE	54.5
37	1390	1431	13.375	54.5	12.615	12.668	48	TRUE	54.5
38	1431	1472	13.375	54.5	12.615	12.673	48	TRUE	54.5
39	1472	1512	13.375	54.5	12.615	12.654	54.5	TRUE	54.5
40	1512	1551	13.375	54.5	12.615	12.684	48	TRUE	54.5
41	1551	1585	13.375	54.5	12.615	12.605	54.5	TRUE	54.5
42	1585	1625	13.375	61	12.51	12.540	61	TRUE	61
43	1625	1665	13.375	61	12.51	12.535	61	TRUE	61
44	1665	1706	13.375	61	12.51	12.549	61	TRUE	61
45	1706	1746	13.375	61	12.51	12.577	54.5	TRUE	61
46	1746	1787	13.375	61	12.51	12.567	54.5	TRUE	61
47	1787	1825	13.375	61	12.51	12.556	61	TRUE	61
48	1825	1862	13.375	61	12.51	12.520	61	TRUE	61
49	1862	1900	13.375	61	12.51	12.551	61	TRUE	61
50	1900	1939	13.375	61	12.51	12.540	61	TRUE	61
51	1939	1978	13.375	61	12.51	12.550	61	TRUE	61
52	1978	2021	13.375	61	12.51	12.566	54.5	TRUE	61

Table A.69: BM-113B detailed section information taken on August 26, 2011

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	16	13.375	61	12.515	12.419	68	TRUE	61
2	16	55	13.375	61	12.515	12.551	61	TRUE	61
3	55	96	13.375	61	12.515	12.540	61	TRUE	61
4	96	131	13.375	54.5	12.615	12.640	54.5	TRUE	54.5
5	131	171	13.375	54.5	12.615	12.655	54.5	TRUE	54.5
6	171	211	13.375	54.5	12.615	12.666	48	TRUE	54.5
7	211	251	13.375	54.5	12.615	12.656	54.5	TRUE	54.5
8	251	285	13.375	54.5	12.615	12.643	54.5	TRUE	54.5
9	285	319	13.375	54.5	12.615	12.640	54.5	TRUE	54.5
10	319	355	13.375	54.5	12.615	12.660	54.5	TRUE	54.5
11	355	390	13.375	54.5	12.615	12.594	54.5	TRUE	54.5
12	390	428	13.375	54.5	12.615	12.649	54.5	TRUE	54.5
13	428	466	13.375	54.5	12.615	12.628	54.5	TRUE	54.5
14	466	507	13.375	54.5	12.615	12.636	54.5	TRUE	54.5
15	507	546	13.375	54.5	12.615	12.643	54.5	TRUE	54.5
16	546	585	13.375	54.5	12.615	12.626	54.5	TRUE	54.5
17	585	624	13.375	54.5	12.615	12.648	54.5	TRUE	54.5
18	624	664	13.375	54.5	12.615	12.636	54.5	TRUE	54.5
19	664	702	13.375	54.5	12.615	12.619	54.5	TRUE	54.5
20	702	740	13.375	54.5	12.615	12.665	54.5	TRUE	54.5
21	740	780	13.375	54.5	12.615	12.626	54.5	TRUE	54.5
22	780	821	13.375	54.5	12.615	12.647	54.5	TRUE	54.5
23	821	857	13.375	54.5	12.615	12.642	54.5	TRUE	54.5
24	857	895	13.375	54.5	12.615	12.621	54.5	TRUE	54.5
25	895	931	13.375	54.5	12.615	12.653	54.5	TRUE	54.5
26	931	970	13.375	54.5	12.615	12.632	54.5	TRUE	54.5
27	970	1005	13.375	54.5	12.615	12.637	54.5	TRUE	54.5
28	1005	1044	13.375	54.5	12.615	12.670	48	TRUE	54.5
29	1044	1081	13.375	54.5	12.615	12.620	54.5	TRUE	54.5
30	1081	1118	13.375	54.5	12.615	12.593	54.5	TRUE	54.5
31	1118	1159	13.375	54.5	12.615	12.627	54.5	TRUE	54.5
32	1159	1201	13.375	54.5	12.615	12.649	54.5	TRUE	54.5
33	1201	1240	13.375	54.5	12.615	12.639	54.5	TRUE	54.5
34	1240	1278	13.375	54.5	12.615	12.606	54.5	TRUE	54.5
35	1278	1319	13.375	54.5	12.615	12.635	54.5	TRUE	54.5
36	1319	1353	13.375	54.5	12.615	12.647	54.5	TRUE	54.5
37	1353	1393	13.375	54.5	12.615	12.617	54.5	TRUE	54.5
38	1393	1433	13.375	54.5	12.615	12.652	54.5	TRUE	54.5
39	1433	1475	13.375	54.5	12.615	12.655	54.5	TRUE	54.5
40	1475	1515	13.375	54.5	12.615	12.646	54.5	TRUE	54.5
41	1515	1553	13.375	54.5	12.615	12.658	54.5	TRUE	54.5
42	1553	1587	13.375	54.5	12.615	12.589	54.5	TRUE	54.5
43	1587	1627	13.375	61	12.51	12.528	61	TRUE	61
44	1627	1666	13.375	61	12.51	12.514	61	TRUE	61
45	1666	1707	13.375	61	12.51	12.525	61	TRUE	61
46	1707	1748	13.375	61	12.51	12.550	61	TRUE	61
47	1748	1788	13.375	61	12.51	12.545	61	TRUE	61
48	1788	1826	13.375	61	12.51	12.533	61	TRUE	61
49	1826	1864	13.375	61	12.51	12.508	61	TRUE	61
50	1864	1901	13.375	61	12.51	12.527	61	TRUE	61
51	1901	1940	13.375	61	12.51	12.521	61	TRUE	61
52	1940	1981	13.375	61	12.51	12.526	61	TRUE	61
53	1981	2022	13.375	61	12.51	12.539	61	TRUE	61

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Table A.70: BM-114A detailed section information taken on April 06 2010

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	24	13.375	61	12.515	12.537	61	TRUE	61
2	24	59	13.375	61	12.515	12.488	61	TRUE	61
3	59	97	13.375	54.5	12.615	12.664	54.5	TRUE	54.5
4	97	137	13.375	54.5	12.615	12.678	48	TRUE	54.5
5	137	173	13.375	54.5	12.615	12.705	48	TRUE	54.5
6	173	207	13.375	54.5	12.615	12.675	48	TRUE	54.5
7	207	247	13.375	54.5	12.615	12.677	48	TRUE	54.5
8	247	287	13.375	54.5	12.615	12.680	48	TRUE	54.5
9	287	328	13.375	54.5	12.615	12.660	54.5	TRUE	54.5
10	328	367	13.375	54.5	12.615	12.669	48	TRUE	54.5
11	367	408	13.375	54.5	12.615	12.661	54.5	TRUE	54.5
12	408	445	13.375	54.5	12.615	12.668	48	TRUE	54.5
13	445	480	13.375	54.5	12.615	12.671	48	TRUE	54.5
14	480	517	13.375	54.5	12.615	12.632	54.5	TRUE	54.5
15	517	552	13.375	54.5	12.615	12.663	54.5	TRUE	54.5
16	552	593	13.375	54.5	12.615	12.647	54.5	TRUE	54.5
17	593	636	13.375	54.5	12.615	12.688	48	TRUE	54.5
18	636	671	13.375	54.5	12.615	12.638	54.5	TRUE	54.5
19	671	707	13.375	54.5	12.615	12.665	54.5	TRUE	54.5
20	707	749	13.375	54.5	12.615	12.676	48	TRUE	54.5
21	749	790	13.375	54.5	12.615	12.644	54.5	TRUE	54.5
22	790	831	13.375	54.5	12.615	12.659	54.5	TRUE	54.5
23	831	872	13.375	54.5	12.615	12.690	48	TRUE	54.5
24	872	908	13.375	54.5	12.615	12.678	48	TRUE	54.5
25	908	947	13.375	54.5	12.615	12.685	48	TRUE	54.5
26	947	989	13.375	54.5	12.615	12.653	54.5	TRUE	54.5
27	989	1027	13.375	54.5	12.615	12.675	48	TRUE	54.5
28	1027	1062	13.375	54.5	12.615	12.645	54.5	TRUE	54.5
29	1062	1097	13.375	54.5	12.615	12.614	54.5	TRUE	54.5
30	1097	1132	13.375	54.5	12.615	12.662	54.5	TRUE	54.5
31	1132	1170	13.375	54.5	12.615	12.647	54.5	TRUE	54.5
32	1170	1209	13.375	54.5	12.615	12.659	54.5	TRUE	54.5
33	1209	1247	13.375	54.5	12.615	12.642	54.5	TRUE	54.5
34	1247	1288	13.375	54.5	12.615	12.703	48	TRUE	54.5
35	1288	1328	13.375	54.5	12.615	12.674	48	TRUE	54.5
36	1328	1368	13.375	54.5	12.615	12.654	54.5	TRUE	54.5
37	1368	1407	13.375	54.5	12.615	12.648	54.5	TRUE	54.5
38	1407	1446	13.375	54.5	12.615	12.673	48	TRUE	54.5
39	1446	1481	13.375	54.5	12.615	12.684	48	TRUE	54.5
40	1481	1517	13.375	54.5	12.615	12.663	54.5	TRUE	54.5
41	1517	1556	13.375	54.5	12.615	12.655	54.5	TRUE	54.5
42	1556	1594	13.375	54.5	12.615	12.663	54.5	TRUE	54.5
43	1594	1631	13.375	61	12.51	12.533	61	TRUE	61
44	1631	1668	13.375	61	12.51	12.563	61	TRUE	61
45	1668	1707	13.375	61	12.51	12.525	61	TRUE	61
46	1707	1747	13.375	61	12.51	12.553	61	TRUE	61
47	1747	1785	13.375	61	12.51	12.529	61	TRUE	61
48	1785	1823	13.375	61	12.51	12.549	61	TRUE	61
49	1823	1861	13.375	61	12.51	12.539	61	TRUE	61
50	1861	1898	13.375	61	12.51	12.532	61	TRUE	61
51	1898	1934	13.375	61	12.51	12.530	61	TRUE	61
52	1934	1974	13.375	61	12.51	12.568	54.5	TRUE	61
53	1974	1999	13.375	61	12.51	12.565	61	TRUE	61

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Table A.71: BM-114B detailed section information taken on April 10, 2010

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	10	57	13.375	61	12.515	12.523	61	TRUE	61
2	57	99	13.375	54.5	12.615	12.666	48	TRUE	54.5
3	99	138	13.375	54.5	12.615	12.635	54.5	TRUE	54.5
4	138	175	13.375	54.5	12.615	12.657	54.5	TRUE	54.5
5	175	212	13.375	54.5	12.615	12.624	54.5	TRUE	54.5
6	212	253	13.375	54.5	12.615	12.675	48	TRUE	54.5
7	253	289	13.375	54.5	12.615	12.641	54.5	TRUE	54.5
8	289	323	13.375	54.5	12.615	12.612	54.5	TRUE	54.5
9	323	364	13.375	54.5	12.615	12.624	54.5	TRUE	54.5
10	364	405	13.375	54.5	12.615	12.653	54.5	TRUE	54.5
11	405	444	13.375	54.5	12.615	12.632	54.5	TRUE	54.5
12	444	481	13.375	54.5	12.615	12.643	54.5	TRUE	54.5
13	481	518	13.375	54.5	12.615	12.613	54.5	TRUE	54.5
14	518	557	13.375	54.5	12.615	12.649	54.5	TRUE	54.5
15	557	598	13.375	54.5	12.615	12.648	54.5	TRUE	54.5
16	598	637	13.375	54.5	12.615	12.627	54.5	TRUE	54.5
17	637	677	13.375	54.5	12.615	12.643	54.5	TRUE	54.5
18	677	714	13.375	54.5	12.615	12.658	54.5	TRUE	54.5
19	714	755	13.375	54.5	12.615	12.655	54.5	TRUE	54.5
20	755	796	13.375	54.5	12.615	12.655	54.5	TRUE	54.5
21	796	833	13.375	54.5	12.615	12.603	54.5	TRUE	54.5
22	833	872	13.375	54.5	12.615	12.658	54.5	TRUE	54.5
23	872	910	13.375	54.5	12.615	12.652	54.5	TRUE	54.5
24	910	950	13.375	54.5	12.615	12.653	54.5	TRUE	54.5
25	950	988	13.375	54.5	12.615	12.614	54.5	TRUE	54.5
26	988	1028	13.375	54.5	12.615	12.644	54.5	TRUE	54.5
27	1028	1062	13.375	54.5	12.615	12.595	54.5	TRUE	54.5
28	1062	1100	13.375	54.5	12.615	12.644	54.5	TRUE	54.5
29	1100	1141	13.375	54.5	12.615	12.650	54.5	TRUE	54.5
30	1141	1181	13.375	54.5	12.615	12.624	54.5	TRUE	54.5
31	1181	1219	13.375	54.5	12.615	12.621	54.5	TRUE	54.5
32	1219	1256	13.375	54.5	12.615	12.622	54.5	TRUE	54.5
33	1256	1298	13.375	54.5	12.615	12.646	54.5	TRUE	54.5
34	1298	1340	13.375	54.5	12.615	12.618	54.5	TRUE	54.5
35	1340	1381	13.375	54.5	12.615	12.644	54.5	TRUE	54.5
36	1381	1419	13.375	54.5	12.615	12.646	54.5	TRUE	54.5
37	1419	1459	13.375	54.5	12.615	12.657	54.5	TRUE	54.5
38	1459	1496	13.375	54.5	12.615	12.652	54.5	TRUE	54.5
39	1496	1535	13.375	54.5	12.615	12.662	54.5	TRUE	54.5
40	1535	1573	13.375	54.5	12.615	12.660	54.5	TRUE	54.5
41	1573	1612	13.375	61	12.51	12.551	61	TRUE	61
42	1612	1651	13.375	61	12.51	12.536	61	TRUE	61
43	1651	1692	13.375	61	12.51	12.519	61	TRUE	61
44	1692	1733	13.375	61	12.51	12.531	61	TRUE	61
45	1733	1774	13.375	61	12.51	12.527	61	TRUE	61
46	1774	1815	13.375	61	12.51	12.531	61	TRUE	61
47	1815	1854	13.375	61	12.51	12.519	61	TRUE	61
48	1854	1895	13.375	61	12.51	12.531	61	TRUE	61
49	1895	1933	13.375	61	12.51	12.521	61	TRUE	61
50	1933	1975	13.375	61	12.51	12.519	61	TRUE	61
51	1975	2004	13.375	61	12.51	12.542	61	TRUE	61

A.44 Bryan Mound 115A

Table A.72: BM-115A detailed section information taken on January 27, 2011

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	6	38	13.375	61	12.515	12.441	68	TRUE	61
2	38	76	13.375	61	12.515	12.494	61	TRUE	61
3	76	114	13.375	54.5	12.615	12.608	54.5	TRUE	54.5
4	114	154	13.375	54.5	12.615	12.591	54.5	TRUE	54.5
5	154	195	13.375	54.5	12.615	12.593	54.5	TRUE	54.5
6	195	235	13.375	54.5	12.615	12.612	54.5	TRUE	54.5
7	235	272	13.375	54.5	12.615	12.572	54.5	TRUE	54.5
8	272	311	13.375	54.5	12.615	12.587	54.5	TRUE	54.5
9	311	349	13.375	54.5	12.615	12.584	54.5	TRUE	54.5
10	349	390	13.375	54.5	12.615	12.566	54.5	TRUE	54.5
11	390	431	13.375	54.5	12.615	12.602	54.5	TRUE	54.5
12	431	473	13.375	54.5	12.615	12.590	54.5	TRUE	54.5
13	473	511	13.375	54.5	12.615	12.589	54.5	TRUE	54.5
14	511	550	13.375	54.5	12.615	12.587	54.5	TRUE	54.5
15	550	589	13.375	54.5	12.615	12.592	54.5	TRUE	54.5
16	589	625	13.375	54.5	12.615	12.587	54.5	TRUE	54.5
17	625	661	13.375	54.5	12.615	12.573	54.5	TRUE	54.5
18	661	700	13.375	54.5	12.615	12.584	54.5	TRUE	54.5
19	700	738	13.375	54.5	12.615	12.585	54.5	TRUE	54.5
20	738	778	13.375	54.5	12.615	12.593	54.5	TRUE	54.5
21	778	818	13.375	54.5	12.615	12.554	61	TRUE	54.5
22	818	854	13.375	54.5	12.615	12.598	54.5	TRUE	54.5
23	854	890	13.375	54.5	12.615	12.568	54.5	TRUE	54.5
24	890	926	13.375	54.5	12.615	12.583	54.5	TRUE	54.5
25	926	964	13.375	54.5	12.615	12.584	54.5	TRUE	54.5
26	964	1002	13.375	54.5	12.615	12.584	54.5	TRUE	54.5
27	1002	1040	13.375	54.5	12.615	12.578	54.5	TRUE	54.5
28	1040	1081	13.375	54.5	12.615	12.598	54.5	TRUE	54.5
29	1081	1121	13.375	54.5	12.615	12.574	54.5	TRUE	54.5
30	1121	1155	13.375	54.5	12.615	12.599	54.5	TRUE	54.5
31	1155	1194	13.375	54.5	12.615	12.553	61	TRUE	54.5
32	1194	1231	13.375	54.5	12.615	12.604	54.5	TRUE	54.5
33	1231	1272	13.375	54.5	12.615	12.572	54.5	TRUE	54.5
34	1272	1309	13.375	54.5	12.615	12.580	54.5	TRUE	54.5
35	1309	1350	13.375	54.5	12.615	12.591	54.5	TRUE	54.5
36	1350	1390	13.375	54.5	12.615	12.557	61	TRUE	54.5
37	1390	1430	13.375	54.5	12.615	12.582	54.5	TRUE	54.5
38	1430	1469	13.375	54.5	12.615	12.579	54.5	TRUE	54.5
39	1469	1505	13.375	54.5	12.615	12.579	54.5	TRUE	54.5
40	1505	1544	13.375	54.5	12.615	12.575	54.5	TRUE	54.5
41	1544	1582	13.375	54.5	12.615	12.587	54.5	TRUE	54.5
42	1582	1621	13.375	61	12.51	12.462	68	TRUE	61
43	1621	1661	13.375	61	12.51	12.469	61	TRUE	61
44	1661	1702	13.375	61	12.51	12.452	68	TRUE	61
45	1702	1737	13.375	61	12.51	12.468	61	TRUE	61
46	1737	1778	13.375	61	12.51	12.479	61	TRUE	61
47	1778	1818	13.375	61	12.51	12.473	61	TRUE	61
48	1818	1853	13.375	61	12.51	12.460	68	TRUE	61
49	1853	1891	13.375	61	12.51	12.432	68	TRUE	61
50	1891	1930	13.375	61	12.51	12.478	61	TRUE	61
51	1930	1969	13.375	61	12.51	12.448	68	TRUE	61
52	1969	2007	13.375	61	12.51	12.459	68	TRUE	61

A.45 Bryan Mound 115B

Table A.73: BM-115B detailed section information taken on March 08, 2012

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	25	13.375	61	12.515	12.568	54.5	TRUE	61
2	25	65	13.375	61	12.515	12.601	54.5	TRUE	61
3	65	104	13.375	54.5	12.615	12.689	48	TRUE	54.5
4	104	144	13.375	54.5	12.615	12.695	48	TRUE	54.5
5	144	184	13.375	54.5	12.615	12.683	48	TRUE	54.5
6	184	223	13.375	54.5	12.615	12.700	48	TRUE	54.5
7	223	265	13.375	54.5	12.615	12.690	48	TRUE	54.5
8	265	301	13.375	54.5	12.615	12.686	48	TRUE	54.5
9	301	338	13.375	54.5	12.615	12.659	54.5	TRUE	54.5
10	338	376	13.375	54.5	12.615	12.674	48	TRUE	54.5
11	376	415	13.375	54.5	12.615	12.677	48	TRUE	54.5
12	415	454	13.375	54.5	12.615	12.692	48	TRUE	54.5
13	454	489	13.375	54.5	12.615	12.659	54.5	TRUE	54.5
14	489	523	13.375	54.5	12.615	12.645	54.5	TRUE	54.5
15	523	564	13.375	54.5	12.615	12.673	48	TRUE	54.5
16	564	599	13.375	54.5	12.615	12.677	48	TRUE	54.5
17	599	639	13.375	54.5	12.615	12.678	48	TRUE	54.5
18	639	678	13.375	54.5	12.615	12.684	48	TRUE	54.5
19	678	719	13.375	54.5	12.615	12.675	48	TRUE	54.5
20	719	757	13.375	54.5	12.615	12.681	48	TRUE	54.5
21	757	799	13.375	54.5	12.615	12.684	48	TRUE	54.5
22	799	838	13.375	54.5	12.615	12.702	48	TRUE	54.5
23	838	878	13.375	54.5	12.615	12.700	48	TRUE	54.5
24	878	913	13.375	54.5	12.615	12.703	48	TRUE	54.5
25	913	950	13.375	54.5	12.615	12.672	48	TRUE	54.5
26	950	989	13.375	54.5	12.615	12.688	48	TRUE	54.5
27	989	1026	13.375	54.5	12.615	12.662	54.5	TRUE	54.5
28	1026	1065	13.375	54.5	12.615	12.718	48	FALSE	48
29	1065	1106	13.375	54.5	12.615	12.688	48	TRUE	54.5
30	1106	1147	13.375	54.5	12.615	12.677	48	TRUE	54.5
31	1147	1186	13.375	54.5	12.615	12.678	48	TRUE	54.5
32	1186	1227	13.375	54.5	12.615	12.672	48	TRUE	54.5
33	1227	1268	13.375	54.5	12.615	12.656	54.5	TRUE	54.5
34	1268	1308	13.375	54.5	12.615	12.627	54.5	TRUE	54.5
35	1308	1349	13.375	54.5	12.615	12.668	48	TRUE	54.5
36	1349	1389	13.375	54.5	12.615	12.668	48	TRUE	54.5
37	1389	1428	13.375	54.5	12.615	12.680	48	TRUE	54.5
38	1428	1469	13.375	54.5	12.615	12.688	48	TRUE	54.5
39	1469	1509	13.375	54.5	12.615	12.681	48	TRUE	54.5
40	1509	1548	13.375	54.5	12.615	12.670	48	TRUE	54.5
41	1548	1588	13.375	54.5	12.615	12.587	54.5	TRUE	54.5
42	1588	1627	13.375	61	12.51	12.523	61	TRUE	61
43	1627	1667	13.375	61	12.51	12.554	61	TRUE	61
44	1667	1708	13.375	61	12.51	12.548	61	TRUE	61
45	1708	1745	13.375	61	12.51	12.536	61	TRUE	61
46	1745	1782	13.375	61	12.51	12.541	61	TRUE	61
47	1782	1823	13.375	61	12.51	12.566	54.5	TRUE	61
48	1823	1858	13.375	61	12.51	12.575	54.5	TRUE	61
49	1858	1898	13.375	61	12.51	12.574	54.5	TRUE	61
50	1898	1939	13.375	61	12.51	12.536	61	TRUE	61
51	1939	1979	13.375	61	12.51	12.547	61	TRUE	61
52	1979	2018	13.375	61	12.51	12.568	54.5	TRUE	61

A.46 Bryan Mound 116A

Table A.74: BM-116A detailed section information taken on August 18, 2009

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	35	13.375	61	12.515	12.610	54.5	TRUE	61
2	35	76	13.375	54.5	12.615	12.721	48	FALSE	48
3	76	116	13.375	54.5	12.615	12.701	48	TRUE	54.5
4	116	157	13.375	54.5	12.615	12.717	48	FALSE	48
5	157	198	13.375	54.5	12.615	12.717	48	FALSE	48
6	198	238	13.375	54.5	12.615	12.705	48	TRUE	54.5
7	238	276	13.375	54.5	12.615	12.652	54.5	TRUE	54.5
8	276	313	13.375	54.5	12.615	12.730	48	FALSE	48
9	313	348	13.375	54.5	12.615	12.709	48	TRUE	54.5
10	348	388	13.375	54.5	12.615	12.735	48	FALSE	48
11	388	425	13.375	54.5	12.615	12.710	48	FALSE	48
12	425	465	13.375	54.5	12.615	12.729	48	FALSE	48
13	465	505	13.375	54.5	12.615	12.684	48	TRUE	54.5
14	505	544	13.375	54.5	12.615	12.708	48	TRUE	54.5
15	544	585	13.375	54.5	12.615	12.734	48	FALSE	48
16	585	625	13.375	54.5	12.615	12.688	48	TRUE	54.5
17	625	662	13.375	54.5	12.615	12.720	48	FALSE	48
18	662	699	13.375	54.5	12.615	12.709	48	TRUE	54.5
19	699	734	13.375	54.5	12.615	12.630	54.5	TRUE	54.5
20	734	769	13.375	54.5	12.615	12.681	48	TRUE	54.5
21	769	807	13.375	54.5	12.615	12.733	48	FALSE	48
22	807	847	13.375	54.5	12.615	12.722	48	FALSE	48
23	847	888	13.375	54.5	12.615	12.708	48	TRUE	54.5
24	888	927	13.375	54.5	12.615	12.738	48	FALSE	48
25	927	965	13.375	54.5	12.615	12.715	48	FALSE	48
26	965	1003	13.375	54.5	12.615	12.706	48	TRUE	54.5
27	1003	1044	13.375	54.5	12.615	12.706	48	TRUE	54.5
28	1044	1081	13.375	54.5	12.615	12.709	48	TRUE	54.5
29	1081	1121	13.375	54.5	12.615	12.739	48	FALSE	48
30	1121	1155	13.375	54.5	12.615	12.698	48	TRUE	54.5
31	1155	1196	13.375	54.5	12.615	12.730	48	FALSE	48
32	1196	1233	13.375	54.5	12.615	12.702	48	TRUE	54.5
33	1233	1270	13.375	54.5	12.615	12.686	48	TRUE	54.5
34	1270	1307	13.375	54.5	12.615	12.715	48	FALSE	48
35	1307	1345	13.375	54.5	12.615	12.710	48	TRUE	54.5
36	1345	1386	13.375	54.5	12.615	12.728	48	FALSE	48
37	1386	1424	13.375	54.5	12.615	12.735	48	FALSE	48
38	1424	1462	13.375	54.5	12.615	12.701	48	TRUE	54.5
39	1462	1500	13.375	54.5	12.615	12.720	48	FALSE	48
40	1500	1541	13.375	54.5	12.615	12.704	48	TRUE	54.5
41	1541	1576	13.375	54.5	12.615	12.705	48	TRUE	54.5
42	1576	1617	13.375	61	12.515	12.593	54.5	TRUE	61
43	1617	1658	13.375	61	12.515	12.595	54.5	TRUE	61
44	1658	1697	13.375	61	12.515	12.595	54.5	TRUE	61
45	1697	1732	13.375	61	12.515	12.594	54.5	TRUE	61
46	1732	1772	13.375	61	12.515	12.589	54.5	TRUE	61
47	1772	1812	13.375	61	12.515	12.610	54.5	TRUE	61
48	1812	1851	13.375	61	12.515	12.626	54.5	FALSE	54.5
49	1851	1890	13.375	61	12.515	12.570	54.5	TRUE	61
50	1890	1926	13.375	61	12.515	12.554	61	TRUE	61
51	1926	1966	13.375	61	12.515	12.592	54.5	TRUE	61
52	1966	1999	13.375	61	12.515	12.548	61	TRUE	61

A.47 Bryan Mound 116B

Table A.75: BM-116B detailed section information taken on September 20, 2012

Casing Number	Depth From	Depth To	Nominal Outer Diameter	Nominal Casing Weight	Nominal Inner Diameter	Measured Inner Diameter	Closest Casing Weight	Within Threshold?	Weight Calculated
-	ft	ft	in	kg/ft	in	in	kg/ft	-	kg/ft
1	0	39	13.375	61	12.515	12.503	61	TRUE	61
2	39	75	13.375	54.5	12.615	12.634	54.5	TRUE	54.5
3	75	113	13.375	54.5	12.615	12.675	48	TRUE	54.5
4	113	154	13.375	54.5	12.615	12.670	48	TRUE	54.5
5	154	191	13.375	54.5	12.615	12.646	54.5	TRUE	54.5
6	191	228	13.375	54.5	12.615	12.638	54.5	TRUE	54.5
7	228	266	13.375	54.5	12.615	12.651	54.5	TRUE	54.5
8	266	306	13.375	54.5	12.615	12.665	54.5	TRUE	54.5
9	306	346	13.375	54.5	12.615	12.642	54.5	TRUE	54.5
10	346	386	13.375	54.5	12.615	12.653	54.5	TRUE	54.5
11	386	425	13.375	54.5	12.615	12.636	54.5	TRUE	54.5
12	425	466	13.375	54.5	12.615	12.643	54.5	TRUE	54.5
13	466	505	13.375	54.5	12.615	12.633	54.5	TRUE	54.5
14	505	540	13.375	54.5	12.615	12.633	54.5	TRUE	54.5
15	540	576	13.375	54.5	12.615	12.640	54.5	TRUE	54.5
16	576	618	13.375	54.5	12.615	12.655	54.5	TRUE	54.5
17	618	657	13.375	54.5	12.615	12.631	54.5	TRUE	54.5
18	657	693	13.375	54.5	12.615	12.637	54.5	TRUE	54.5
19	693	733	13.375	54.5	12.615	12.648	54.5	TRUE	54.5
20	733	769	13.375	54.5	12.615	12.629	54.5	TRUE	54.5
21	769	807	13.375	54.5	12.615	12.679	48	TRUE	54.5
22	807	842	13.375	54.5	12.615	12.648	54.5	TRUE	54.5
23	842	881	13.375	54.5	12.615	12.664	54.5	TRUE	54.5
24	881	923	13.375	54.5	12.615	12.656	54.5	TRUE	54.5
25	923	963	13.375	54.5	12.615	12.662	54.5	TRUE	54.5
26	963	1004	13.375	54.5	12.615	12.659	54.5	TRUE	54.5
27	1004	1041	13.375	54.5	12.615	12.676	48	TRUE	54.5
28	1041	1080	13.375	54.5	12.615	12.647	54.5	TRUE	54.5
29	1080	1118	13.375	54.5	12.615	12.679	48	TRUE	54.5
30	1118	1154	13.375	54.5	12.615	12.651	54.5	TRUE	54.5
31	1154	1196	13.375	54.5	12.615	12.654	54.5	TRUE	54.5
32	1196	1234	13.375	54.5	12.615	12.658	54.5	TRUE	54.5
33	1234	1270	13.375	54.5	12.615	12.662	54.5	TRUE	54.5
34	1270	1309	13.375	54.5	12.615	12.688	48	TRUE	54.5
35	1309	1347	13.375	54.5	12.615	12.666	48	TRUE	54.5
36	1347	1385	13.375	54.5	12.615	12.632	54.5	TRUE	54.5
37	1385	1423	13.375	54.5	12.615	12.681	48	TRUE	54.5
38	1423	1457	13.375	54.5	12.615	12.660	54.5	TRUE	54.5
39	1457	1495	13.375	54.5	12.615	12.636	54.5	TRUE	54.5
40	1495	1536	13.375	54.5	12.615	12.671	48	TRUE	54.5
41	1536	1577	13.375	54.5	12.615	12.645	54.5	TRUE	54.5
42	1577	1615	13.375	61	12.515	12.534	61	TRUE	61
43	1615	1651	13.375	61	12.515	12.554	61	TRUE	61
44	1651	1693	13.375	61	12.515	12.556	61	TRUE	61
45	1693	1731	13.375	61	12.515	12.529	61	TRUE	61
46	1731	1769	13.375	61	12.515	12.543	61	TRUE	61
47	1769	1809	13.375	61	12.515	12.545	61	TRUE	61
48	1809	1851	13.375	61	12.515	12.558	61	TRUE	61
49	1851	1891	13.375	61	12.515	12.621	54.5	TRUE	61
50	1891	1932	13.375	61	12.515	12.590	54.5	TRUE	61
51	1932	1969	13.375	61	12.515	12.560	61	TRUE	61
52	1969	2011	13.375	61	12.515	12.551	61	TRUE	61

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