



Well Integrity Report  
Multifinger Caliper  
Wildcat  
Currier 7-2

Survey Date: 06 September 2024

<b>Customer:</b>	Snow Consulting	<b>API No.:</b>	0507708022
<b>Well:</b>	Currier 7-2	<b>Survey date:</b>	06 Sep 2024
<b>Field:</b>	Wildcat	<b>Job no.:</b>	ANS 1442

# 1 — Interpretation Results

## 13.375" Casing Summary

- The caliper recordings indicate the short interval of 13.375" casing logged appears to range between moderate and poor condition with respect to internal corrosive and mechanical damage. The average mean ID of the recorded casing is 12.760", slightly higher than the expected nominal ID of 12.715". Figure 1 provides an overview image of both the main and repeat passes across the interval of casing logged. Both passes repeated well, and similar features were logged in both caliper passes. The main pass was used for statistical analysis in this report.
- The caliper recorded four distinct intervals of metal loss in the casing in the form of an intermittent line of corrosion and/or apparent wear to the inside of the casing, see Figure 1. The first interval of line corrosion and wear is recorded between ~6 ft and ~20 ft towards surface. This line of damage is adjacent to deposits in the well which may have masked additional damage to the inside of the pipe wall and prevented the caliper fingers from fully imaging the damage while logging. The maximum recorded wall penetration in this interval of damage is 40.6% of nominal wall thickness recorded at 12.70 ft, see Figures 2 and 3. As previously mentioned, deposits are recorded in this interval of casing reducing the ID to 12.235" at 16.23 ft, see Figures 2 and 4.
- The second interval of wear is found between ~140 ft and ~164 ft where damage is recorded on up to 3 consecutive caliper fingers. This line of wear appears to be more defined and is most likely caused by assemblies wearing on the inside of the pipe wall creating a groove. The maximum recorded wall penetration across this interval of wear is 42.9% of nominal wall thickness at 156.94 ft, see Figures 5 and 6.
- The third interval of wear is found between ~220 ft and ~256 ft where damage is also recorded on up to 4 consecutive caliper fingers. This line of wear is even more defined than the previous two lines of wear. The maximum recorded wall penetration across this interval of wear is where the survey maximum recorded wall penetration is recorded, measuring 55.2% wall penetration at 242.35 ft, see Figures 7 and 8. The second most significant wall penetration across the surveyed casing is also found within this line of damage, measuring 55.1% wall thickness at 239.58 ft, see Figure 7.
- The fourth interval of wear is found between ~352 ft and ~388 ft where damage is recorded on up to 3 consecutive caliper fingers. This line of wear is pronounced over this interval and the maximum recorded wall penetration across this interval of wear is 48.7% at 366.95 ft, see Figures 9 and 10. Outside of these lines of wear, no other significant wall penetrations are recorded throughout the casing logged.
- Other than the large patches of deposit towards surface previously mentioned the caliper recorded a small patch of deposits at the start of the logging interval across 4 consecutive caliper fingers between 432.96 ft and 433.15 ft (end of log). The minimum recorded diameter across this interval is 11.950" at 433.03 ft, see Figures 11 and 12.
- The caliper also recorded several short and localized areas of oval deformation throughout the casing logged. The most severe deformation regarding ID restrictions is recorded at 308.96 ft with a minimum ID of 12.474", see Figures 13 and 14. An overview of what the other areas of deformation look like can be seen in Figure 15, highlighting several instances within the casing.
- The survey minimum diameter is found within the wellhead/casing hanger assembly reducing the ID to 7.015" at -1.76 ft, see Figure 2.

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**13.375” Casing - Maximum Recorded Wall Penetration:**

Description	Percent Wall Penetration	Ref No.	Depth (ft)
Apparent Wear / Line Corrosion	55.2	10	242.35
Apparent Wear / Line Corrosion	55.1	9	239.58
Apparent Wear / Line Corrosion	48.7	14	366.95
Apparent Wear / Line Corrosion	44.8	13	363.39
Apparent Wear / Line Corrosion	42.9	7	156.94

**13.375” Casing - Maximum Recorded Cross-sectional Metal Loss:**

No significant areas of cross-sectional metal loss, greater than 9.6% are recorded throughout the casing logged.

**13.375” Casing - Maximum Recorded ID Restrictions:**

Description	Minimum Recorded ID (in)	Ref No.	Depth (ft)
Wellhead / Casing Hanger	7.015	1	-1.76
Deposits	11.950	16	433.03
Deposits	12.235	2	16.23
Oval Deformation	12.474	12	308.96
Oval Deformation	12.476	6	131.72

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## 2 — Survey Overview & Objectives

### Pipe Details

Pipe OD (in)	Weight (lbs/ft)	Grade & Thread	Nominal ID (in)	Drift ID (in)	Nominal Wall Thickness (in)	Top Log Interval (ft)	Bottom Log Interval (ft)	Pipe Description
13.375	48	H40	12.715	12.559	0.330	Surface	433.15	Casing

**Tool(s):** 60-arm multi-finger caliper run in SRO mode.

**Conveyance:** Wireline

**Survey objectives:** Assess the general condition of the casing.

**Comments:** MFC data was acquired in a main and repeat pass from 433.15 ft to surface and both are of good quality, suitable to achieve the survey objectives. The repeat and main passes show good repeatability between the two with similar features recorded. The statistical analysis used in this report comes from the main pass data.

The tool deviation and rotation appear to be unresponsive in both caliper passes.

The data uses depths as logged in the field. No depth corrections were applied during the analysis of this data.

**Personnel Details:** This survey was logged by D. Pace and witnessed by Mr. Snow.

### Version History

Version	Author	Date	Comment
1	C. Waldrop	13 Sep 2024	

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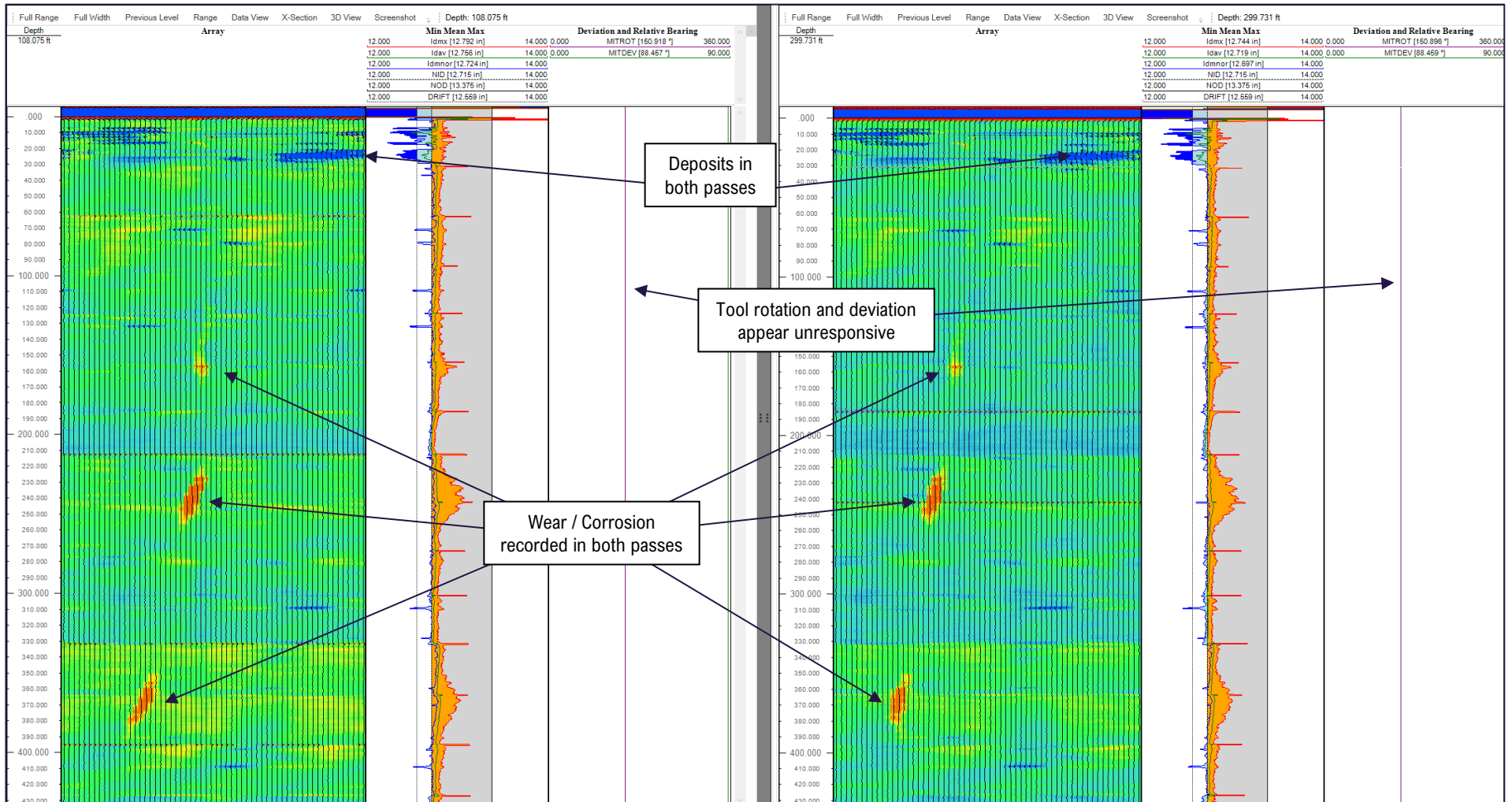
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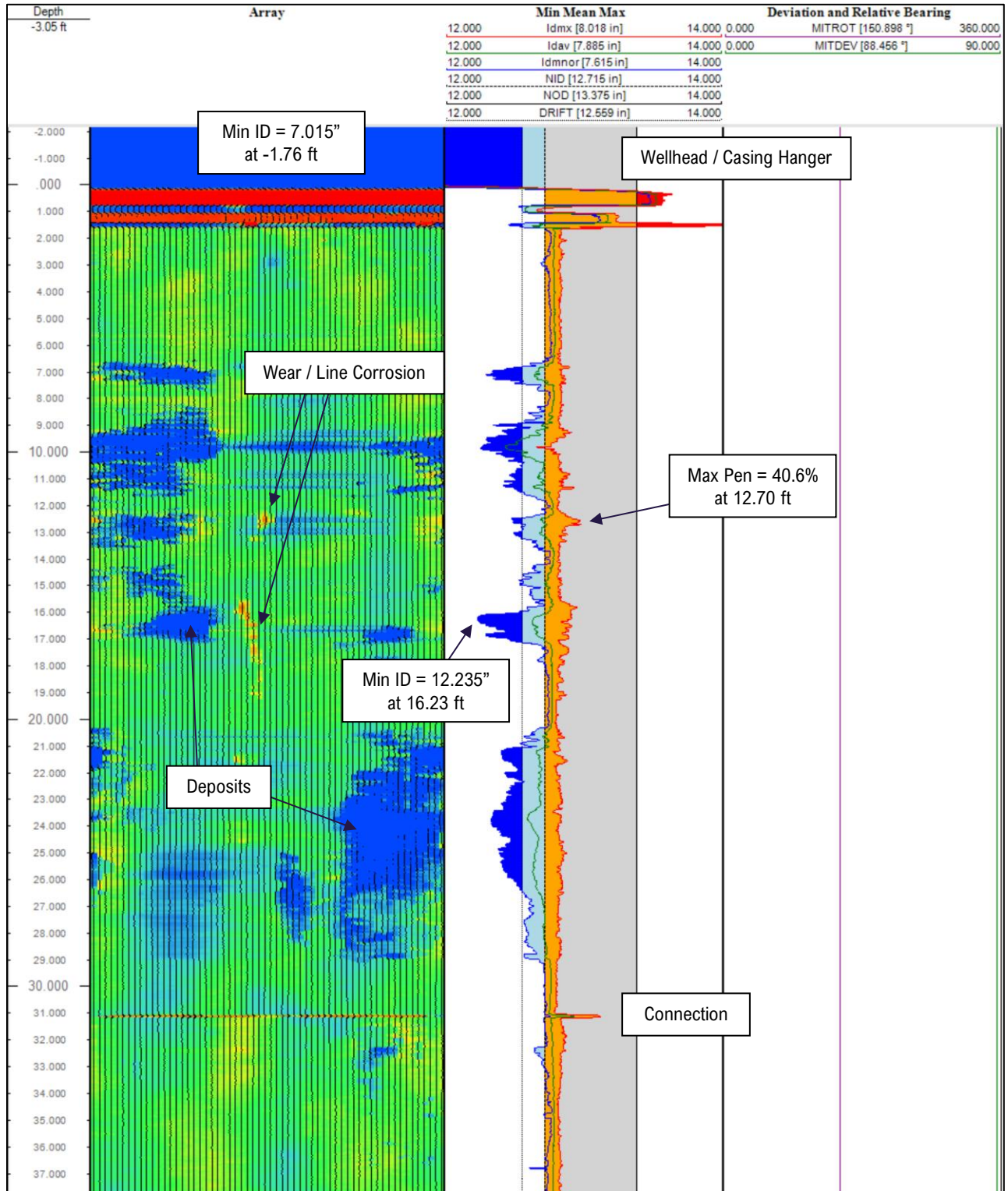
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**Figure 1: 13.375" Casing Overview (433.15 ft – surface) Main Pass and Repeat Pass**



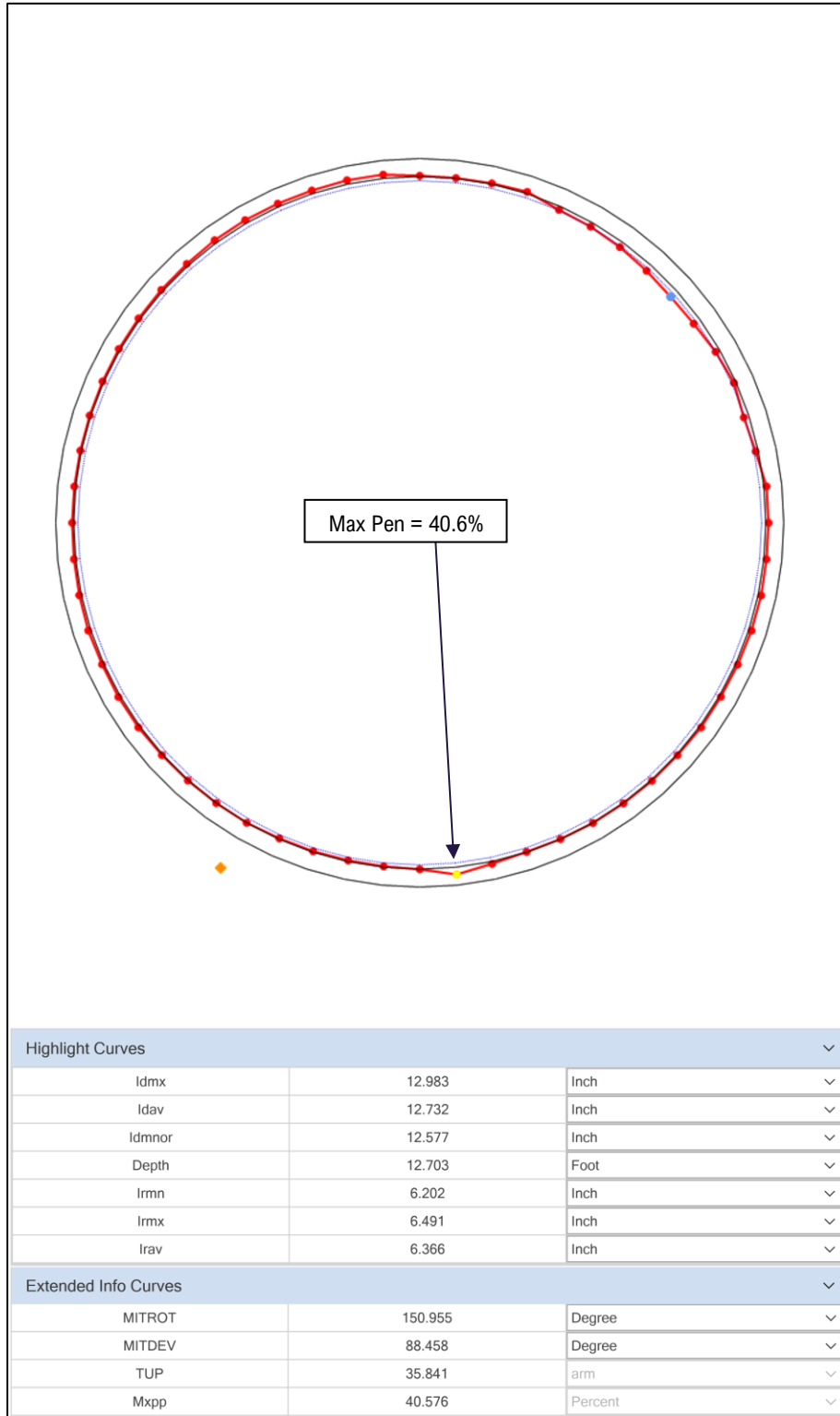
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**Figure 2: 13.375" Casing – Wear / Line Corrosion and Deposits Recorded Near Surface**



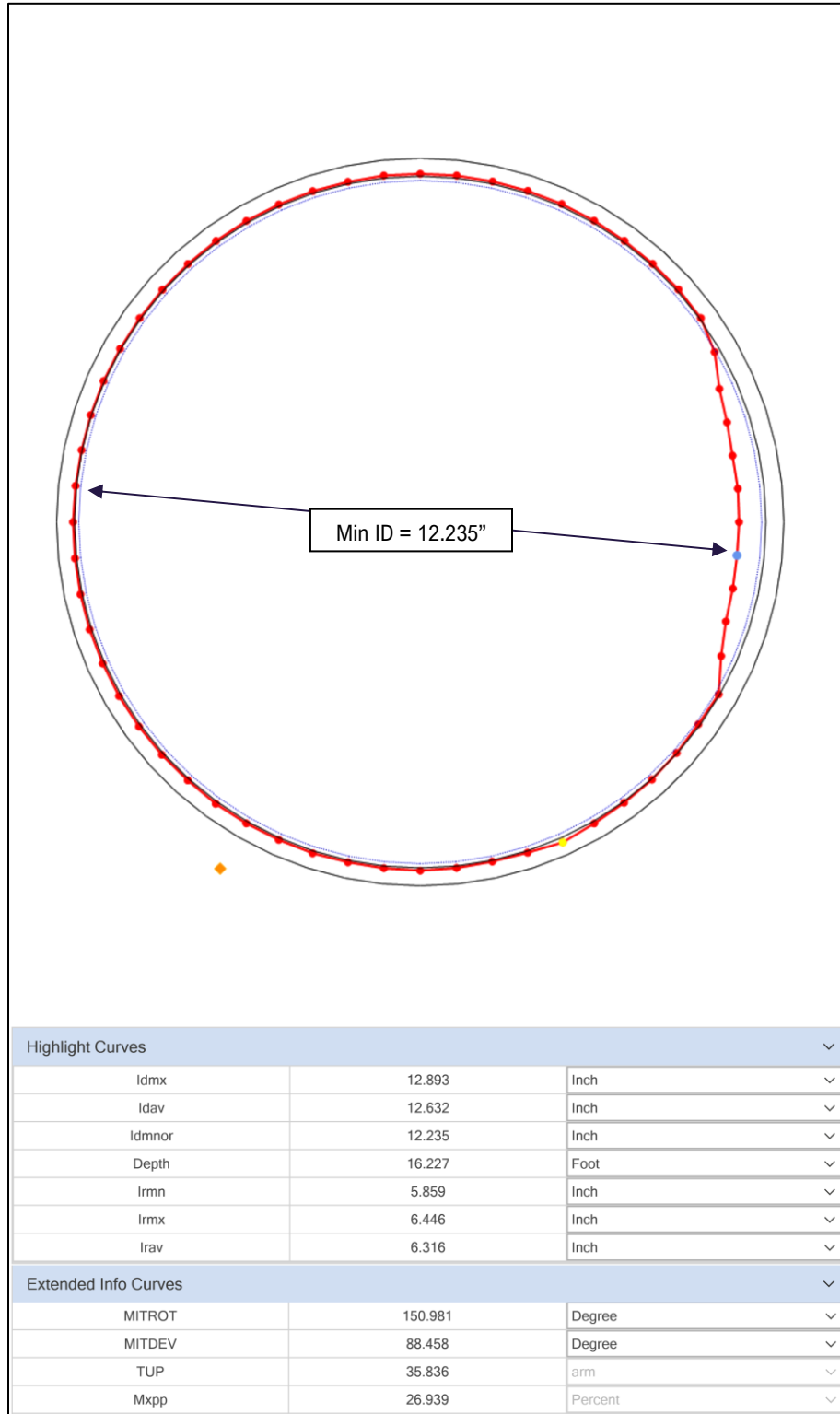
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**Figure 3: 13.375” Casing – Cross-section of Maximum Recorded Penetration at 12.70 ft**



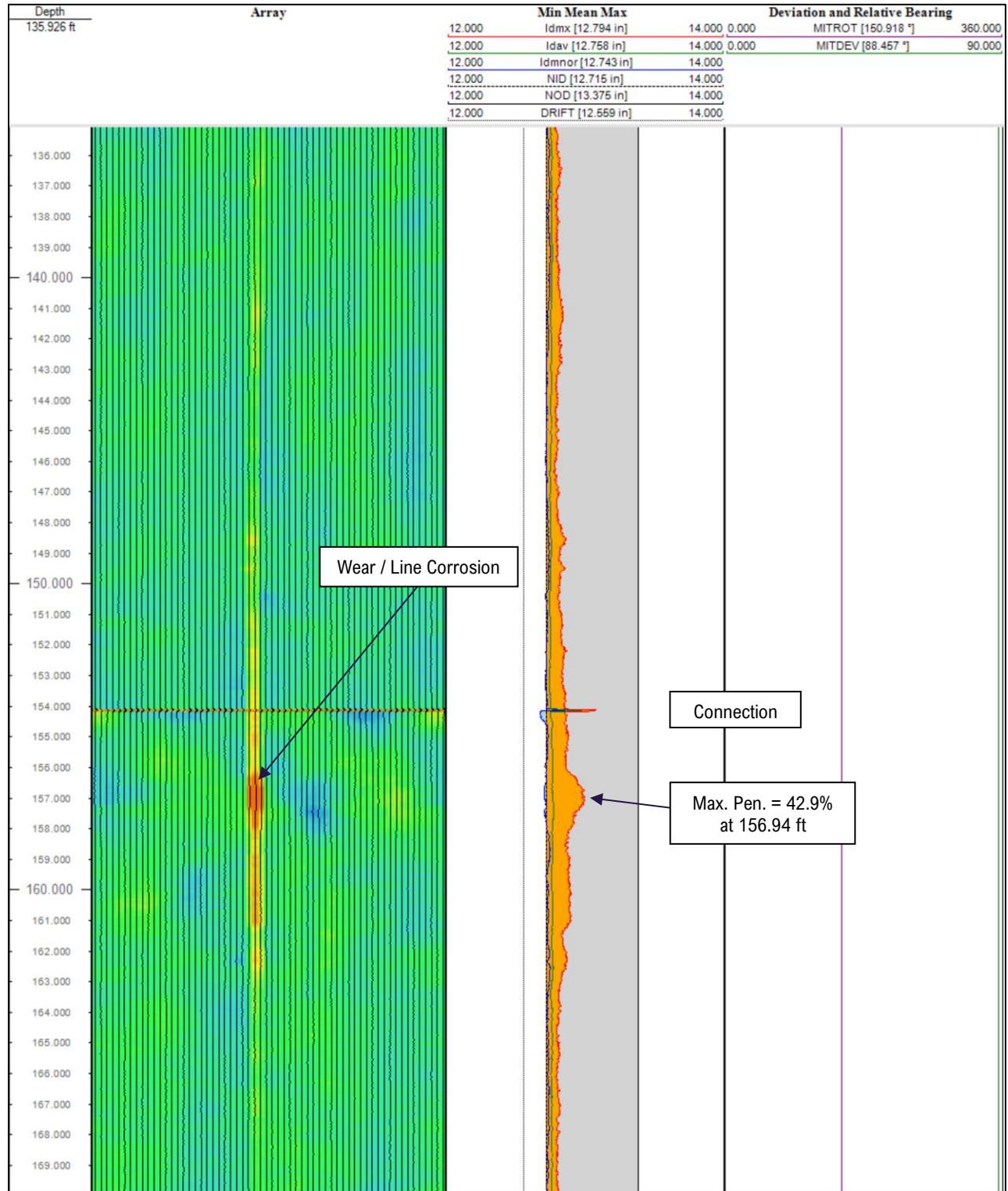
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**Figure 4: 13.375" Casing – Cross-section of Minimum Recorded Diameter at 16.23 ft**



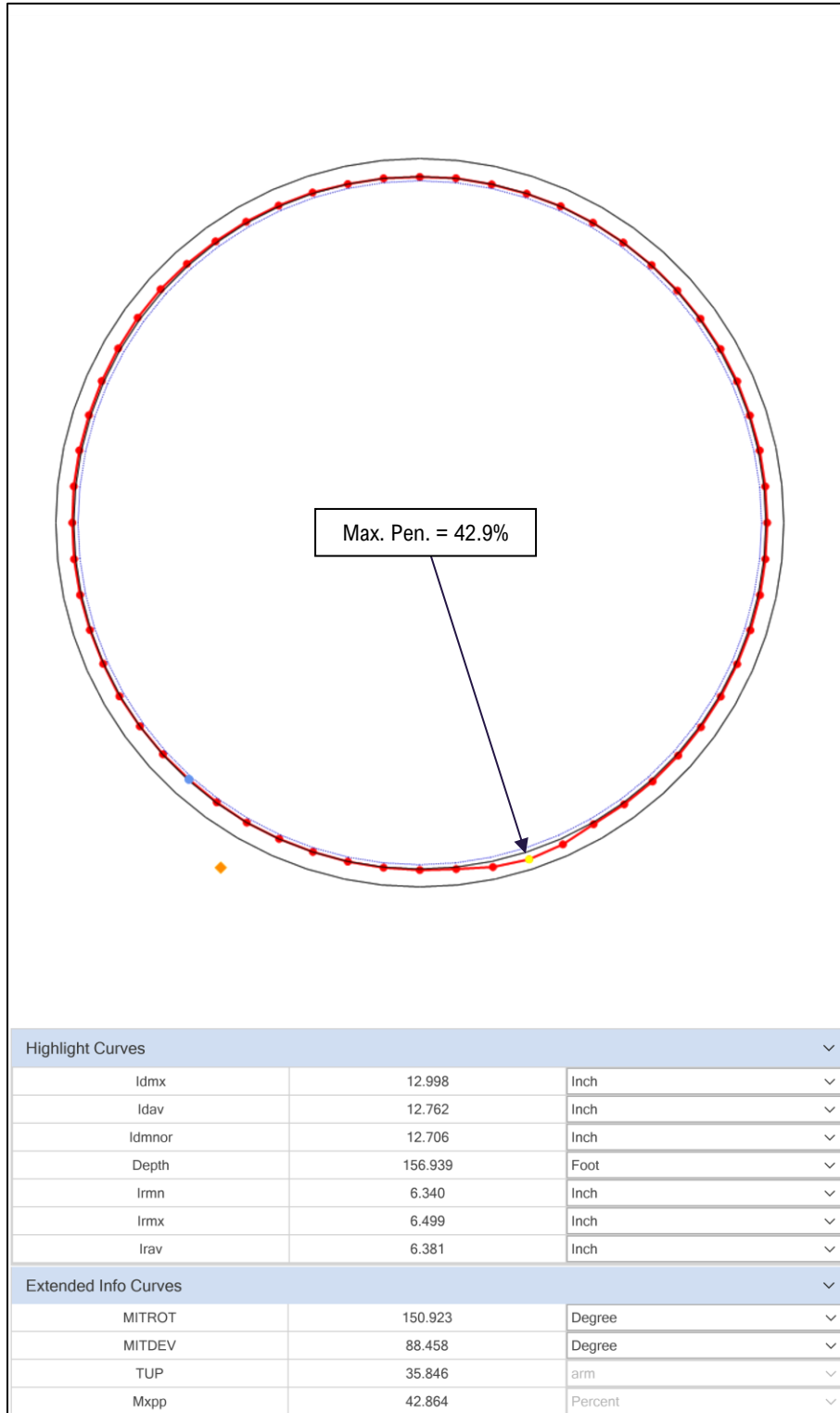
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**Figure 5: 13.375" Casing – Wear / Line Corrosion Recorded Between ~140 ft and ~164 ft**



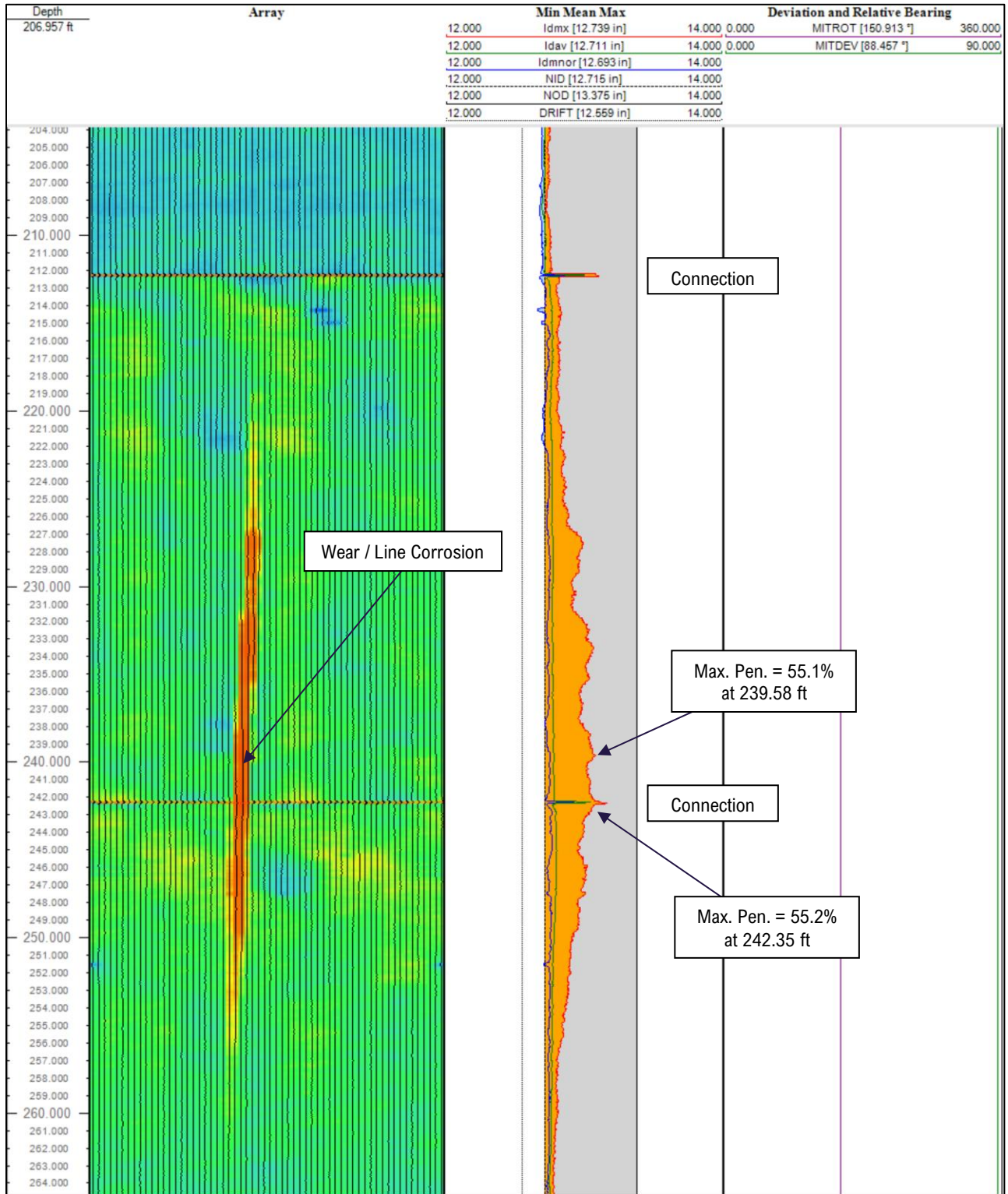
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**Figure 6: 13.375" Casing – Cross-section of Maximum Recorded Penetration at 156.94 ft**



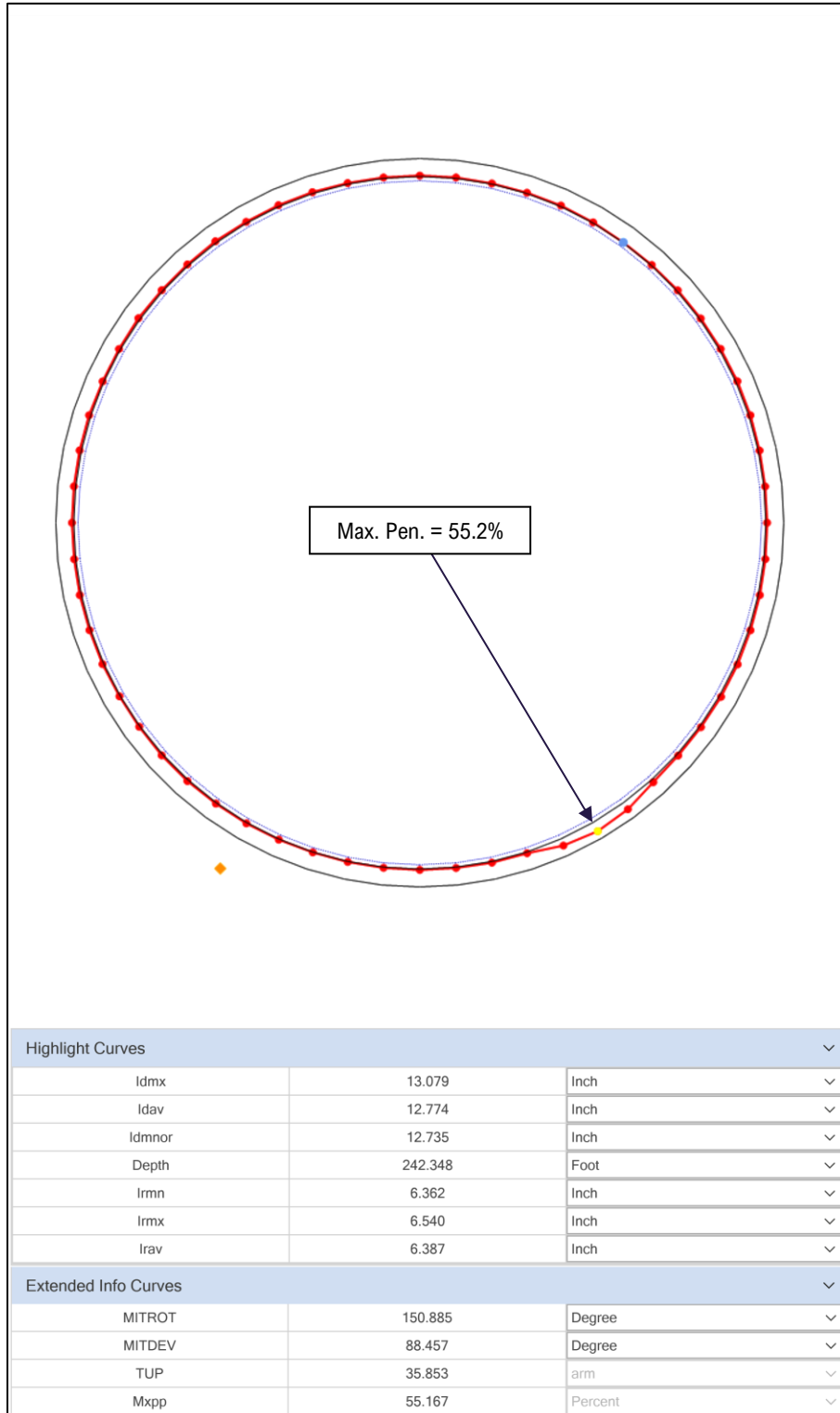
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**Figure 7: 13.375" Casing – Wear / Line Corrosion Recorded Between ~220 ft and ~256 ft**



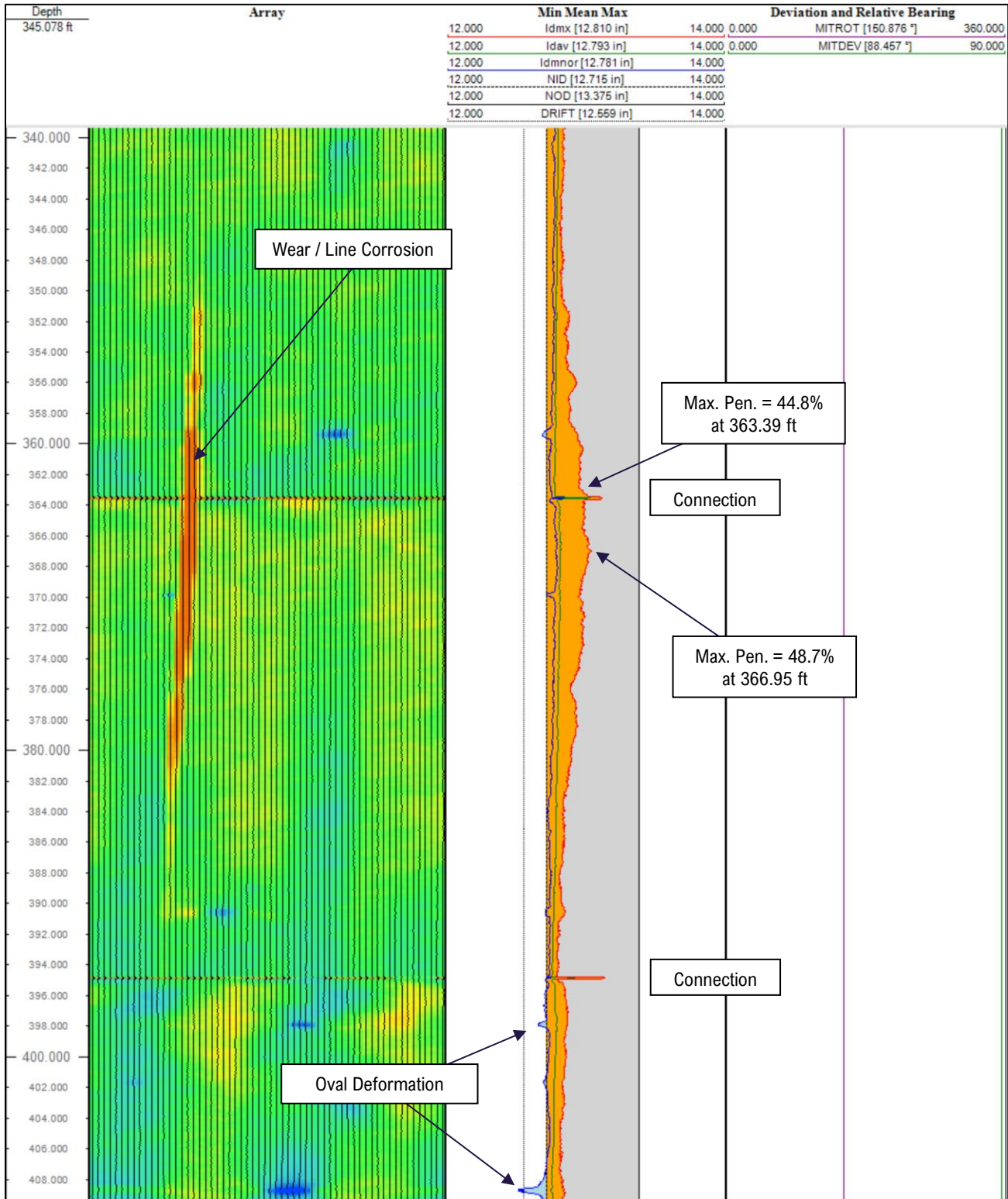
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**Figure 8: 13.375” Casing – Cross-section of Maximum Recorded Penetration at 242.35 ft**



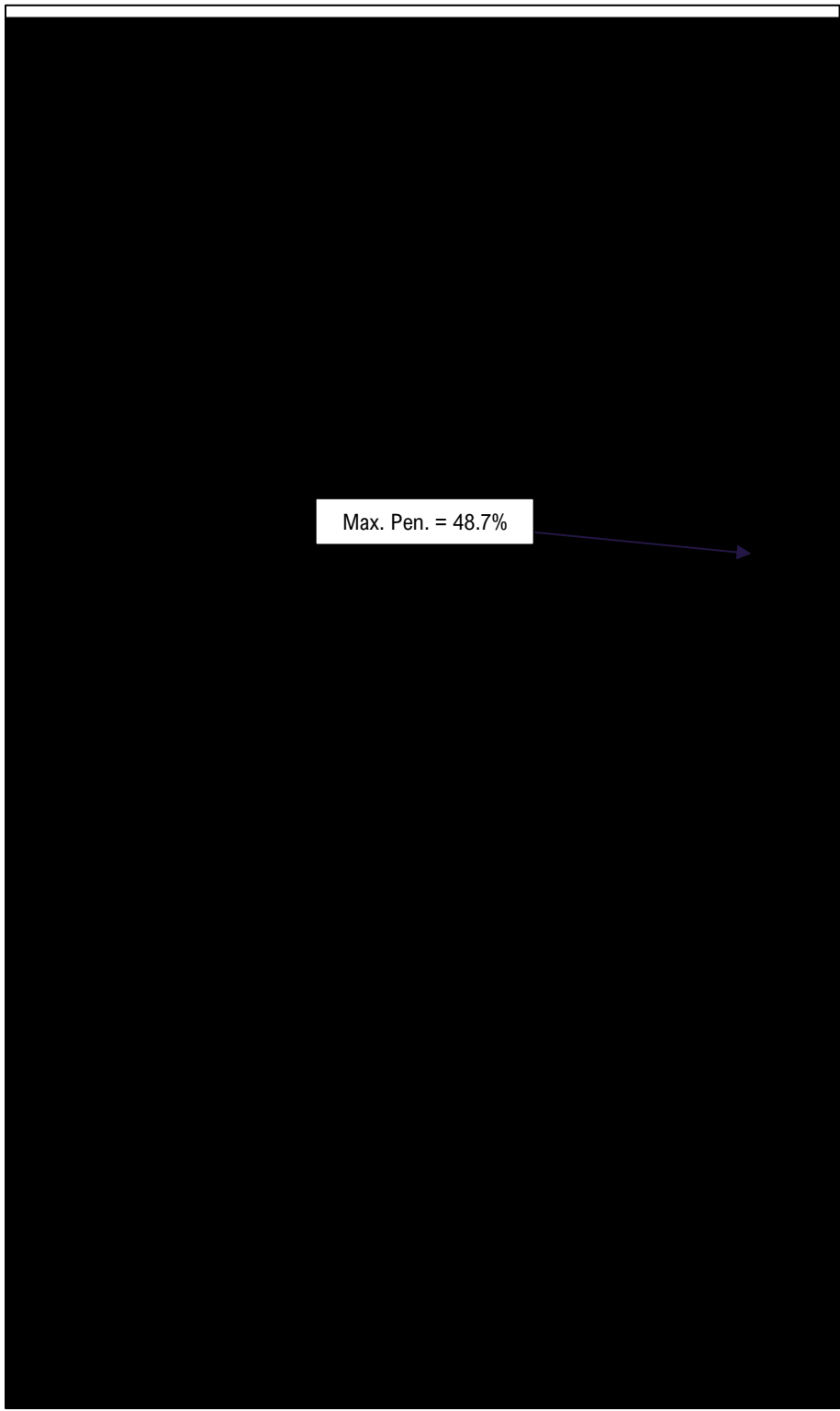
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**Figure 9: 13.375" Casing – Wear / Line Corrosion Recorded Between ~352 ft and ~388 ft**



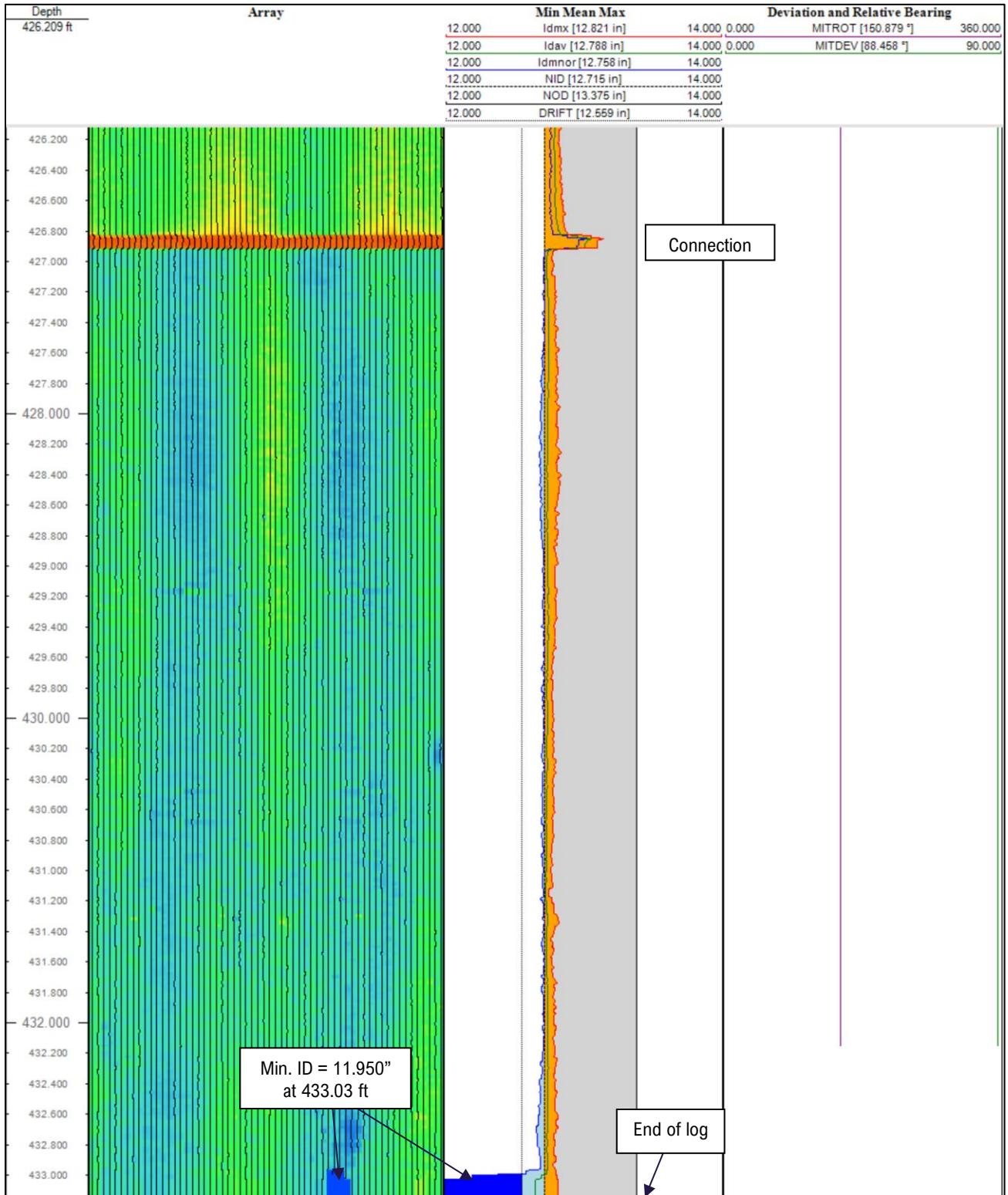
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**Figure 10: 13.375" Casing – Cross-section of Maximum Recorded Penetration at 366.95 ft**



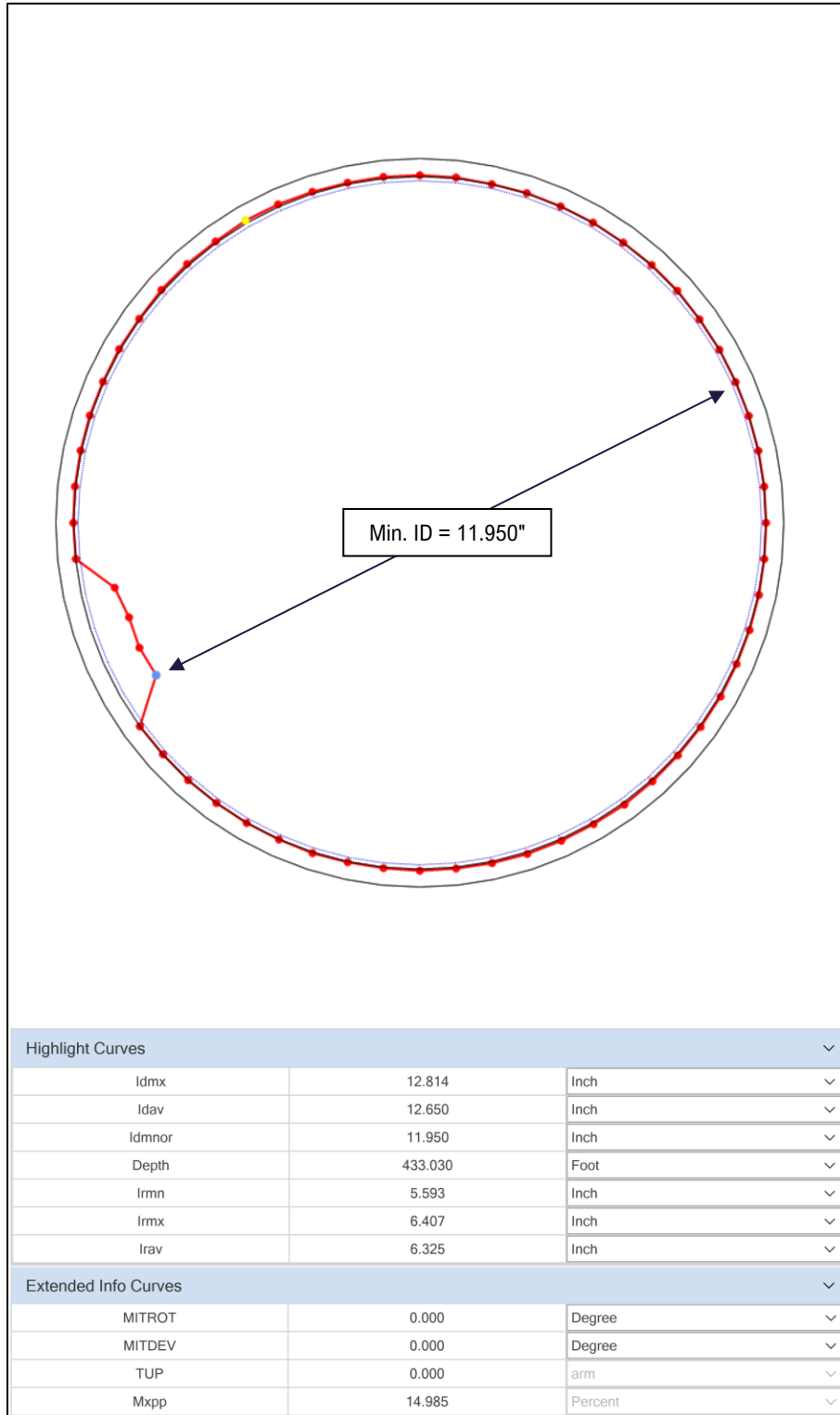
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**Figure 11: 13.375" Casing – Deposits Recorded Between 432.96 ft and 433.15 ft (end of log)**



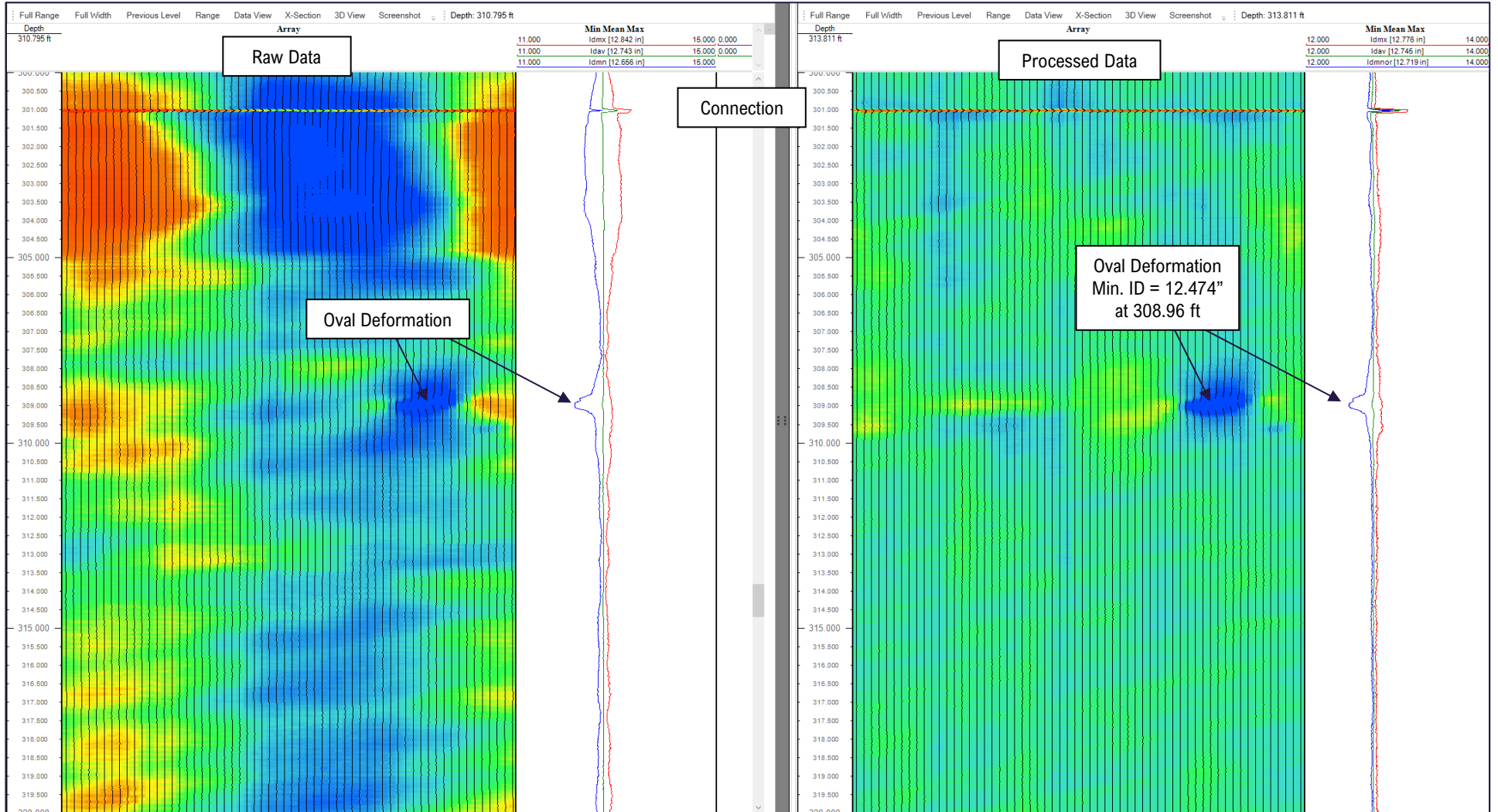
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**Figure 12: 13.375" Casing – Cross-section of Minimum Recorded Diameter at 433.03 ft**



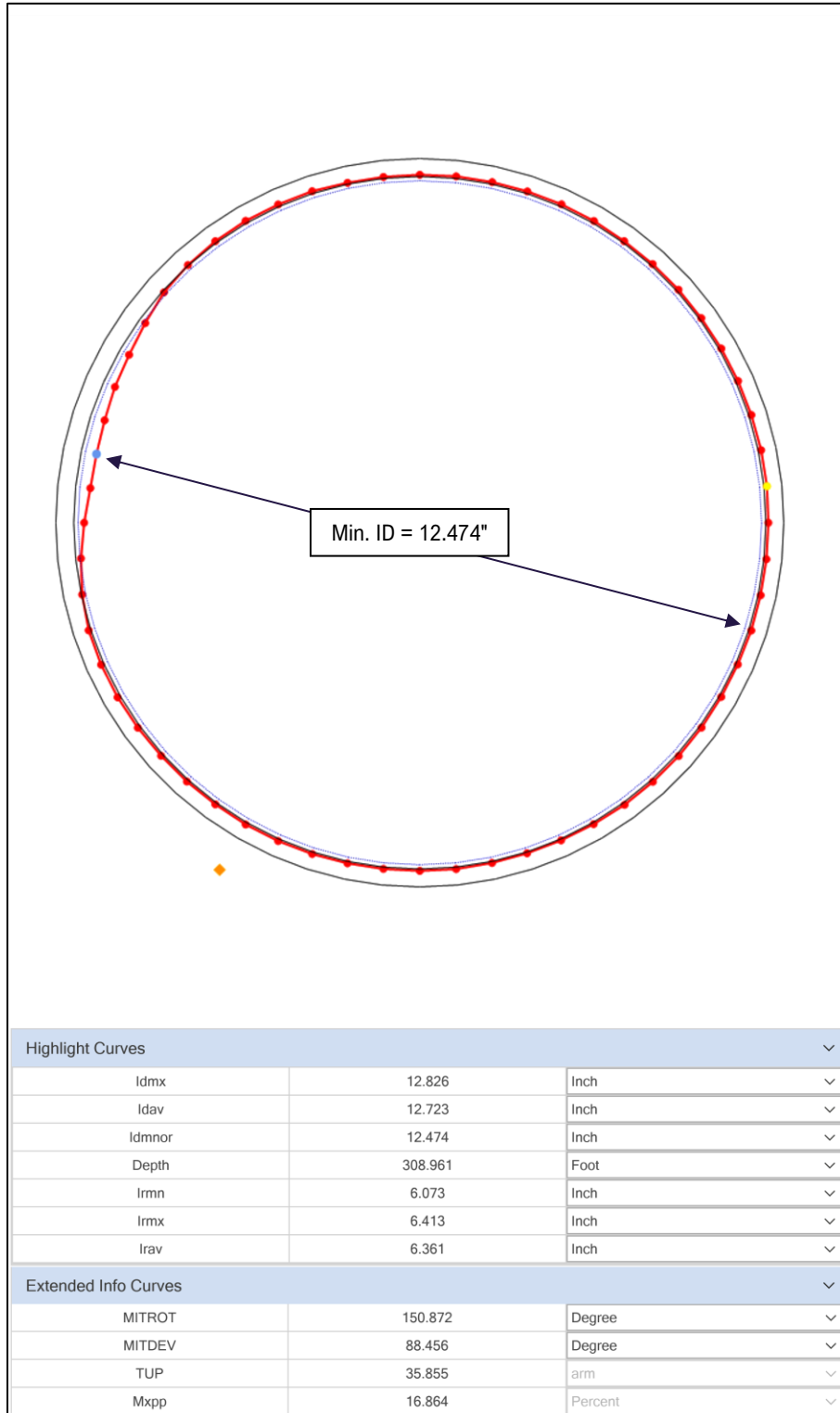
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**Figure 13: 13.375" Casing – Oval Deformation Recorded at 308.96 ft**



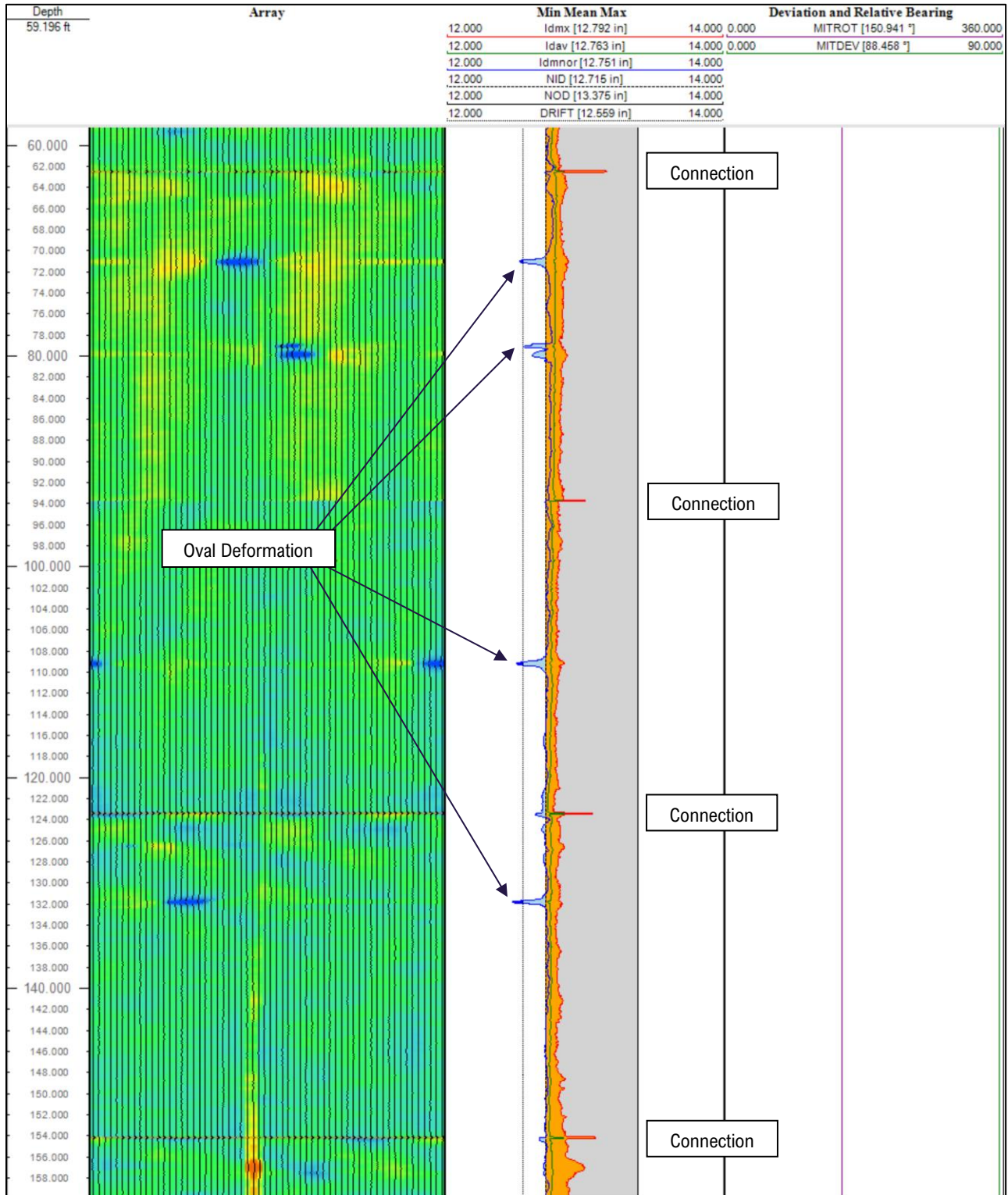
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**Figure 14: 13.375" Casing – Cross-section of Oval Deformation Recorded at 308.96 ft**



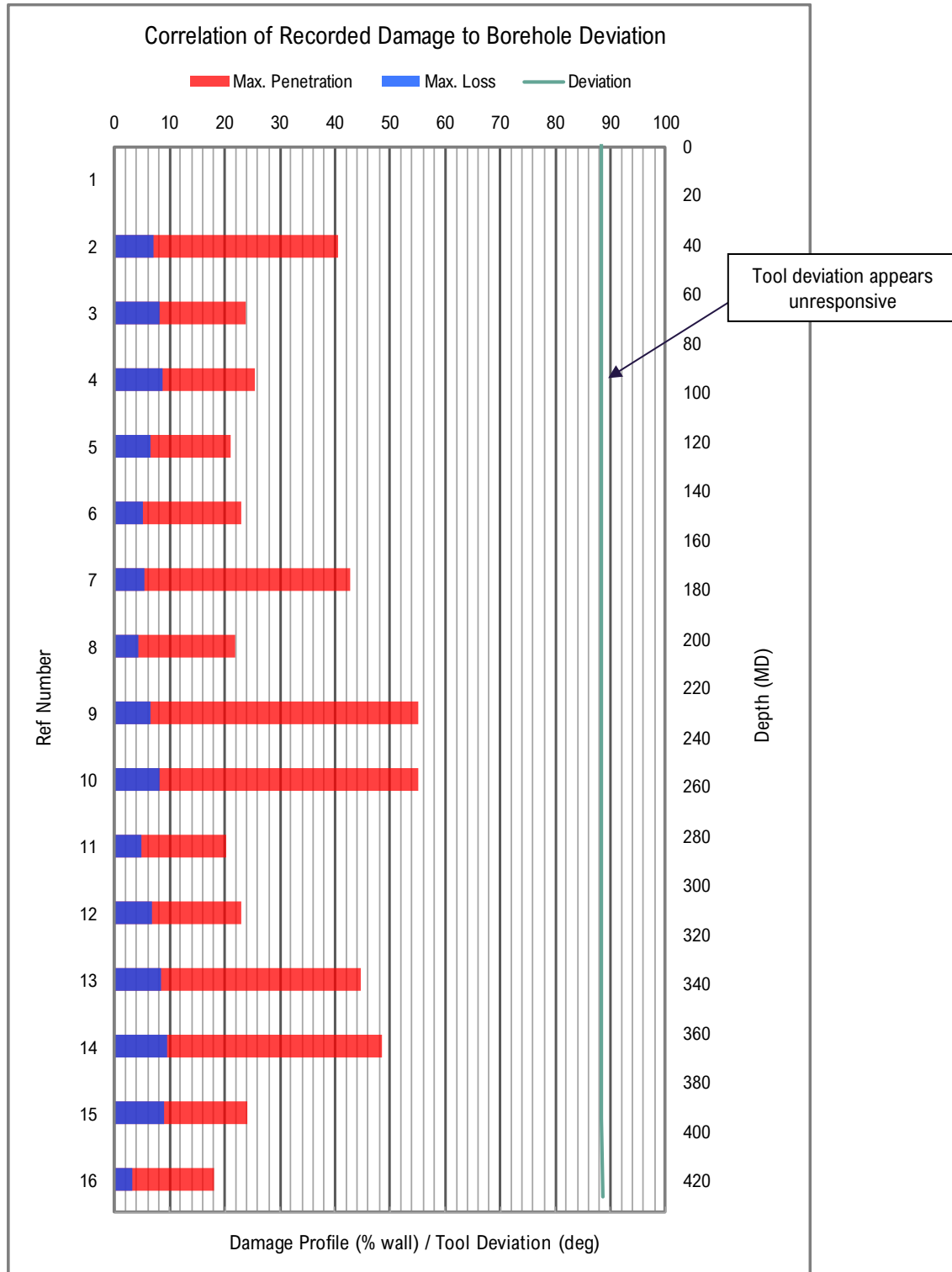
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**Figure 15: 13.375" Casing – Additional Oval Deformation Recorded Across the Casing**



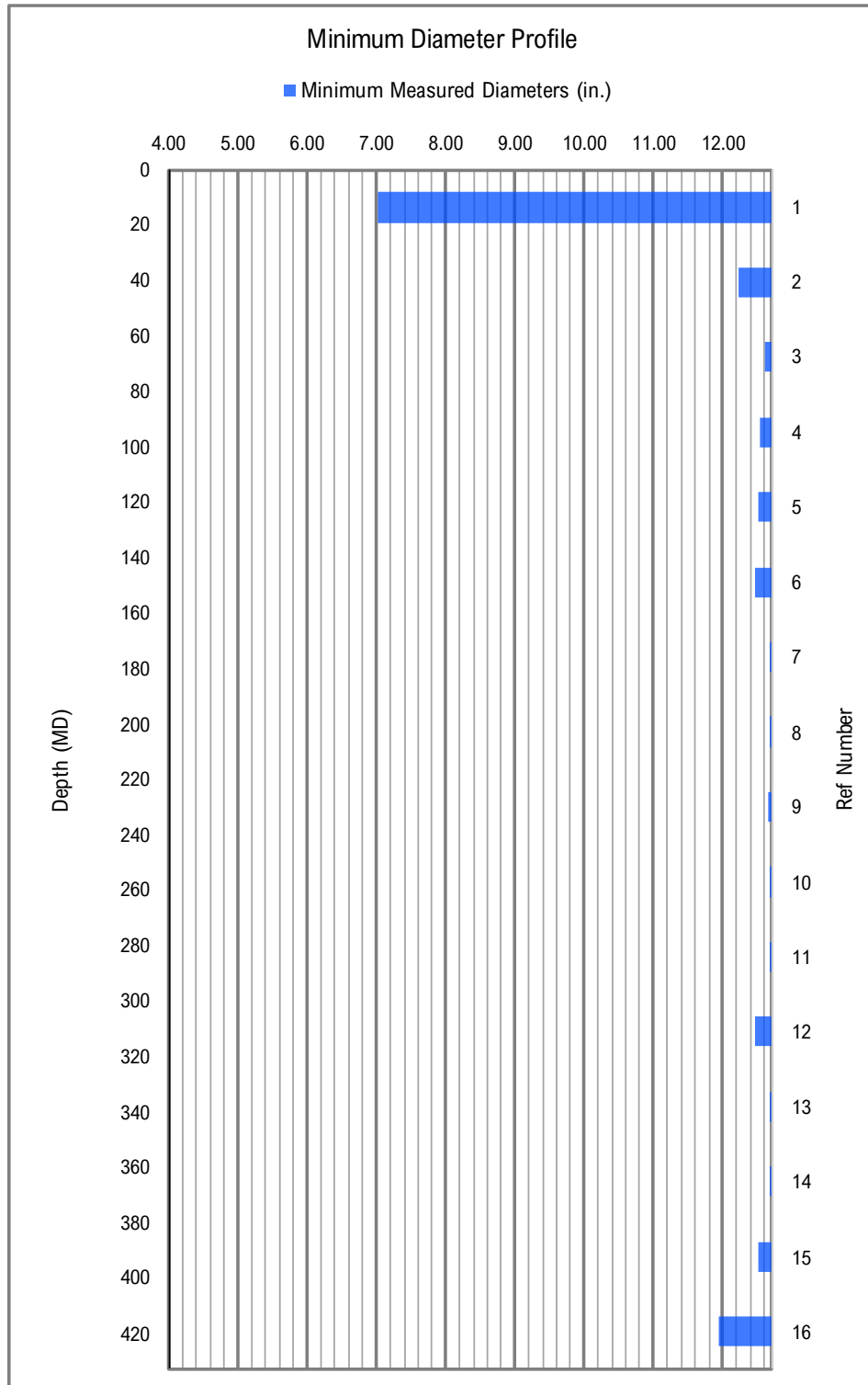
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**Figure 16: Correlation of Damage to Borehole Deviation**



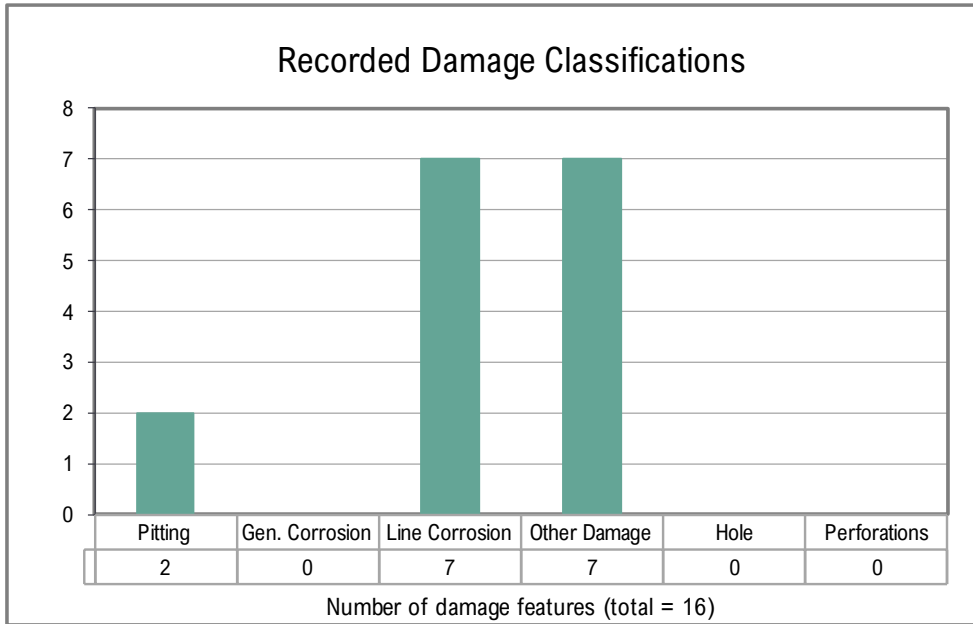
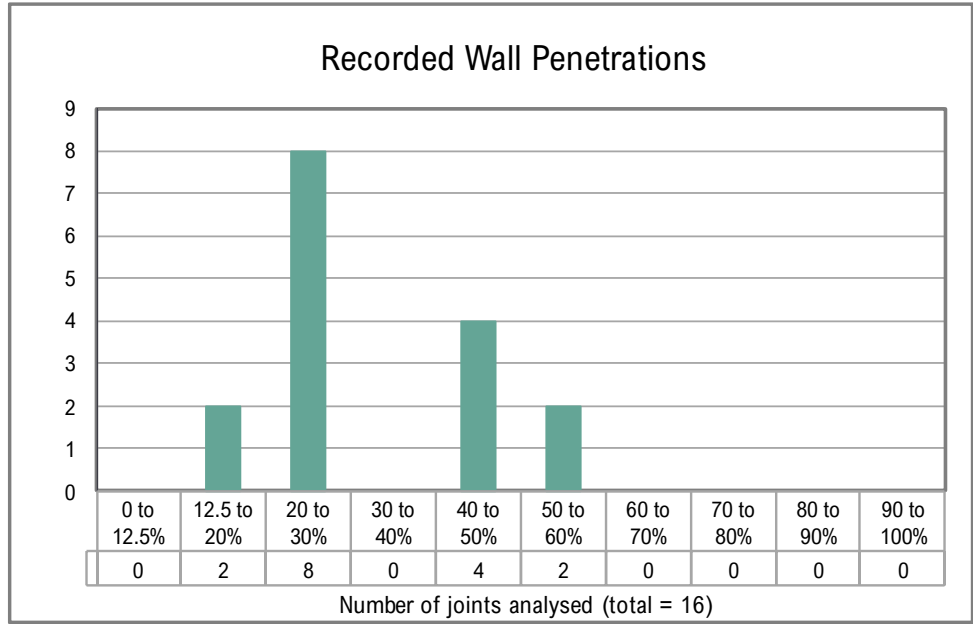
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**Figure 17: Minimum ID Profile**



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**Figure 18: Recorded Wall Penetrations and Damage Classification**



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**Figure 19: Tabulated Data**

Max. Pen. %	0% - 12.5%	12.5% - 20%	20% - 40%	40% - 60%	60% - 80%	80% - 100%
Min. ID (in)	< Drift ID					

Joint Ref.	Bot. Depth (ft)	Top Depth (ft)	Length (ft)	Max. ID (in)	Max. Pen. Depth (ft)	Max. Pen. (%)	Max. Metal Loss (%)	Metal Loss Depth (ft)	Min. ID (in)	Min. ID Depth (ft)	Mean ID (in)	Nominal ID (in)	Completion item
1	1.59	-6.25	7.84	15.339	-	-	-	-	7.015	-1.76	9.676	12.715	Wellhead
2	31.03	1.64	29.38	12.983	12.70	40.6	7.1	5.89	12.235	16.23	12.725	12.715	Apparent Wear, Line Corrosion, Deposits
3	62.34	31.17	31.16	12.873	31.86	23.9	8.2	39.44	12.603	36.80	12.770	12.715	Line of Pits, Deposits
4	93.57	62.47	31.10	12.884	71.03	25.5	8.6	71.05	12.533	70.96	12.783	12.715	Oval Deformation
5	123.27	93.73	29.54	12.854	109.06	21.1	6.6	99.38	12.509	109.14	12.757	12.715	Oval Deformation
6	154.08	123.42	30.66	12.866	152.18	22.9	5.0	131.64	12.476	131.72	12.752	12.715	Apparent Wear, Line Corrosion, Oval Deformation
7	185.05	154.17	30.88	12.998	156.94	42.9	5.5	157.31	12.670	154.18	12.755	12.715	Apparent Wear, Line Corrosion
8	212.15	185.17	26.97	12.860	185.47	21.9	4.3	186.00	12.671	185.22	12.729	12.715	Line of Pits
9	242.18	212.31	29.87	13.079	239.58	55.1	6.5	241.85	12.663	214.23	12.771	12.715	Apparent Wear, Line Corrosion, Oval Deformation
10	272.77	242.32	30.44	13.079	242.35	55.2	8.1	245.00	12.704	272.70	12.771	12.715	Apparent Wear, Line Corrosion
11	300.95	272.90	28.05	12.848	279.03	20.2	4.9	278.00	12.676	300.90	12.754	12.715	Oval Deformation
12	331.34	301.11	30.23	12.867	331.34	23.1	6.7	331.34	12.474	308.96	12.742	12.715	Oval Deformation
13	363.45	331.45	32.00	13.011	363.39	44.8	8.4	336.40	12.682	331.45	12.791	12.715	Apparent Wear, Line Corrosion, Oval Deformation
14	394.76	363.59	31.17	13.036	366.95	48.7	9.6	366.47	12.707	390.40	12.793	12.715	Apparent Wear, Line Corrosion, Oval Deformation
15	426.80	394.92	31.88	12.874	397.05	24.1	9.0	426.78	12.515	408.69	12.767	12.715	Oval Deformation
16	433.15	426.94	6.21	12.835	428.25	18.1	3.3	427.67	11.950	433.03	12.737	12.715	Deposits

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## 4 — Data quality

It is not uncommon for well conditions/conveyance/depth system problems to be a major cause of poor data while logging in addition to the performance of the logging tools themselves, impacting the ability to achieve the objectives of the survey. A ranking system summarises the quality of the data affected by the well/conveyance/depth system and the logging tools. An explanation of the rankings used are provided below.

Rank	Well/conveyance/depth system performance	Tool performance	Data analysis
4	Rates stable, complete access and clean pipe / smooth motion; constant logging speeds / good depth control	Good data quality and repeatability with no tool problems	High confidence in analysis results
3	Minor well blockages or debris / minor yo-yo motion / temporary loss of depth	Data standard acceptable but minor noise and/or tool problems	Analysis satisfactory – primary questions answered
2	Limited well access, unstable rates / stick slip; cable stretch; cable torque; speed instability; poor centralisation / frequent loss of depth	Poor quality data with some data loss and/or poor repeatability	Low confidence in analysis results
1	No well access / wire or coil Casing breakage; tractor failure / complete loss of depth	No data acquired due to tool failure	Data uninterpretable

The following table provides a measure of the confidence expressed in this analysis based on the well/conveyance/depth system and tool performance. The rankings (as above) are entered by the Analyst who performed the interpretation based on the status of the well logged, the performance of the conveyance/depth system and data quality from the field and the impact of all these on the analysis.

Sensor	Description	Well/Con/Depth	Tool	Analysis	Comments
LS	Line speed	4	4	4	
MFC	Multi-finger caliper	4	3.5	4	Tool rotation and deviation appear unresponsive
Analysis score				3.9	Good data set for analysis

For each sensor the well conditions that may have affected the survey with respect to the survey objectives have been considered.

For each sensor the quality of the raw data supplied by the acquisition process has been considered.

For each sensor the overall influence of the well conditions and logging process on the certainty of the final interpreted result has been considered.

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## 5 — Processing steps

### Depth correction

The data provided was depth matched to the Scoop Guide at 8329.00 ft in the field by the field engineer.

After depth correction the following processing steps have been performed:

Process	Performed	Mode	Comments
Editing	N	-	-
Recalibration	Y	Median	Correct for minor arm sensor drift
Centralisation	Y	Prism™ / Minimum	Correct for tool decentralisation
Reorientation	N	-	-
Splicing	Y	Multi-file splice	Splice together different centralisations

Centralisation was achieved by calculating a least squares fit of a sinusoid at each depth frame. To provide effective centralisation in heavily pitted pipe or within scattered deposits, outliers (the maximum, minimum or absolute values) can be ignored to provide a better result if necessary. The Clarity AI system, Prism™, automatically detects these outliers and applies the appropriate level of exclusion.

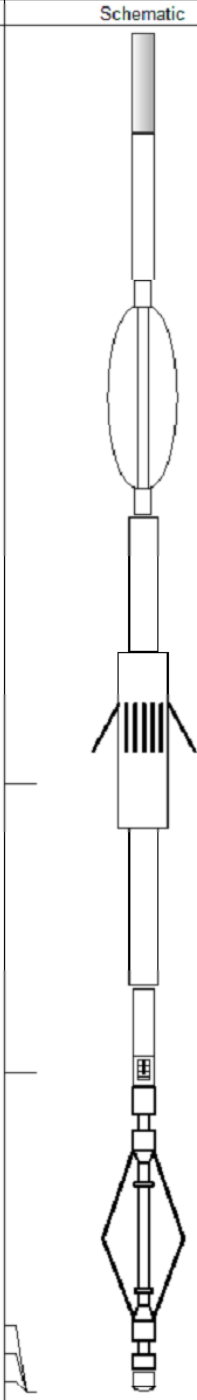
<b>Customer:</b>	Snow Consulting	<b>API No.:</b>	0507708022
<b>Well:</b>	Currier 7-2	<b>Survey date:</b>	06 Sep 2024
<b>Field:</b>	Wildcat	<b>Job no.:</b>	ANS 1442

## 6 — Field records

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<b>Customer:</b>	Snow Consulting	<b>API No.:</b>	0507708022
<b>Well:</b>	Currier 7-2	<b>Survey date:</b>	06 Sep 2024
<b>Field:</b>	Wildcat	<b>Job no.:</b>	ANS 1442

**Field Record 1: Toolstring Diagram**

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-AES (000001) Cable Head	1.04	1.69	2.00
			XTU-002 (217217) Crossover Ultrawire Toolbus To Ultralink	1.58	1.69	6.50
			PRC-AS90050-15 (1021) GE SDX 2 3/4" Adjustable Bowspring Centralizer with 15" sprgs	2.50	2.75	60.00
MIT	6.43		MIT-029 (000007) Multifinger Imaging Tool (UW 60F)	5.00	4.00	90.00
TEMP	3.37		PRT-016 (10006811) Platinum Resistance Thermometer	1.04	1.69	6.00
			PRC-022 (215771) ( 6 ARM 2 3/8" ROLLER CENTRALIZER SONDEX )	3.00	2.38	21.40
HVOLTX ITEMPX TSTAMP	0.00 0.00 0.00		BUL-006 (212965) Bullnose Terminator	0.22	1.69	1.20
		Dataset:	currier7-2.db: field/well/calipermain/pass1			
		Total length:	14.38 ft			
		Total weight:	187.10 lb			
		O.D.:	4.00 in			

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**Field Record 2: Calibration Report**

Calibration Report					
Database File	currier7-2.db				
Dataset Pathname	calipermain/pass1				
Dataset Creation	Fri Sep 06 12:14:42 2024				
Temperature Calibration Report					
	Serial Number:	10006811			
	Tool Model:	016			
	Performed:	Mon Apr 30 16:22:18 2012			
Point #	Reading		Reference		
1	11649.00	cps	65.14		degF
2	18183.00	cps	105.26		degF
3	29168.00	cps	174.16		degF
4	40750.00	cps	246.15		degF
5	51960.00	cps	317.35		degF
6	57688.00	cps	353.34		degF
7		cps			degF
8		cps			degF
9		cps			degF
10		cps			degF
Multifinger Imaging Tool Calibration Report					
	Serial Number:	000007			
	Number of Fingers:	60			
	Tool Model:	029			
Inclinometer Calibration Report					
	Performed:	Fri Mar 23 16:15:08 2001			
	Calibration Angle:	50			
			Inc X		Inc Y
Vertical:			397		496
Finger 1 up:			390		443
Finger 46 up:			491		495
Finger 31 up:			407		555
Finger 16 up:			306		498
Sensitivity ratio:	1.65815				
X-axis angle:	93.3923				
Deviation const.:	77.9437				

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Finger Calibration Report							
Performed: Fri Sep 6 08:51:02 2024							
Ring size:	5	7.975		8.95		14	
(in)	Sens	Sens	Sens	Sens	Sens	Sens	Sens
Finger 01:	1343	164.7	1833	166.2	1995	187.1	2940
Finger 02:	1267	162.7	1751	163.1	1910	184.6	2842
Finger 03:	1331	166.4	1826	166.2	1988	185.9	2927
Finger 04:	1310	159.7	1785	166.2	1947	185.3	2883
Finger 05:	1126	159.7	1601	172.3	1769	199.6	2777
Finger 06:	1202	158.0	1672	167.2	1835	189.5	2792
Finger 07:	1334	160.0	1810	165.1	1971	180.8	2884
Finger 08:	1444	157.3	1912	160.0	2068	171.7	2935
Finger 09:	1251	162.7	1735	173.3	1904	186.9	2848
Finger 10:	1262	172.8	1776	181.5	1953	192.5	2925
Finger 11:	1279	162.0	1761	166.2	1923	182.4	2844
Finger 12:	1314	166.1	1808	173.3	1977	184.8	2910
Finger 13:	1507	168.7	2009	175.4	2180	179.4	3086
Finger 14:	1341	160.3	1818	170.3	1984	187.1	2929
Finger 15:	1079	197.3	1666	221.5	1882	226.9	3028
Finger 16:	1401	162.0	1883	170.3	2049	173.7	2920
Finger 17:	1292	146.9	1729	162.1	1887	168.5	2738
Finger 18:	1279	155.0	1740	173.3	1909	177.6	2806
Finger 19:	1371	156.3	1836	172.3	2004	174.9	2887
Finger 20:	1429	169.4	1933	181.5	2110	180.6	3022
Finger 21:	1463	159.0	1936	173.3	2105	171.7	2972
Finger 22:	1407	167.1	1904	185.6	2085	178.8	2988
Finger 23:	1331	159.3	1805	185.6	1986	180.2	2896
Finger 24:	1259	158.7	1731	185.6	1912	180.6	2824
Finger 25:	1342	160.3	1819	184.6	1999	179.0	2903
Finger 26:	1380	164.7	1870	189.7	2055	182.8	2978
Finger 27:	1237	161.0	1716	185.6	1897	183.2	2822
Finger 28:	1329	167.1	1826	190.8	2012	183.2	2937
Finger 29:	1442	178.5	1973	202.1	2170	180.6	3082
Finger 30:	1421	163.4	1907	179.5	2082	175.4	2968
Finger 31:	1507	182.2	2049	201.0	2245	177.8	3143
Finger 32:	1374	169.7	1879	184.6	2059	181.4	2975
Finger 33:	1344	177.8	1873	193.8	2062	188.9	3016
Finger 34:	1174	160.7	1652	177.4	1825	183.6	2752
Finger 35:	1264	166.4	1759	177.4	1932	180.8	2845
Finger 36:	1310	173.1	1825	186.7	2007	181.8	2925
Finger 37:	1333	159.0	1806	171.3	1973	173.7	2850
Finger 38:	1362	164.0	1850	177.4	2023	177.4	2919
Finger 39:	1373	167.7	1872	180.5	2048	175.2	2933
Finger 40:	1491	173.4	2007	184.6	2187	173.1	3061
Finger 41:	1344	164.4	1833	180.5	2009	178.0	2908
Finger 42:	1353	161.3	1833	176.4	2005	177.4	2901
Finger 43:	1404	166.7	1900	179.5	2075	178.0	2974
Finger 44:	1347	168.1	1847	187.7	2030	186.5	2972
Finger 45:	1306	175.1	1827	188.7	2011	190.3	2972
Finger 46:	1394	170.8	1902	181.5	2079	179.4	2985
Finger 47:	1200	161.7	1681	176.4	1853	183.2	2778
Finger 48:	1462	183.5	2008	190.8	2194	184.0	3123
Finger 49:	1405	161.7	1886	164.1	2046	171.9	2914
Finger 50:	1237	177.5	1765	189.7	1950	193.9	2929
Finger 51:	1269	159.0	1742	166.2	1904	176.0	2793
Finger 52:	1179	164.0	1667	173.3	1836	185.3	2772
Finger 53:	1268	164.0	1756	172.3	1924	186.5	2866
Finger 54:	1296	158.3	1767	164.1	1927	178.0	2826
Finger 55:	1353	168.4	1854	172.3	2022	182.2	2942
Finger 56:	1267	159.0	1740	161.0	1897	181.4	2813
Finger 57:	1279	167.1	1776	167.2	1939	188.3	2890
Finger 58:	1287	164.4	1776	165.1	1937	195.8	2926
Finger 59:	1359	170.1	1865	170.3	2031	186.1	2971
Finger 60:	1160	162.7	1644	171.3	1811	194.5	2793

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<b>Well:</b>	Currier 7-2	<b>Survey date:</b>	06 Sep 2024
<b>Field:</b>	Wildcat	<b>Job no.:</b>	ANS 1442

## 7 — ANSA support and feedback

If you do have any further queries regarding the content of the data or the analysis herein, please contact ANSA using the details below. Either the analyst who authored this report or another member of the ANSA team will be available should any findings need clarification.

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