

State of New Mexico
Energy, Minerals and Natural Resources

Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-27592
5. Indicate Type of Lease STATE FEE X
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Mewbourne WDW-1
8. Well Number: WDW-1
9. OGRID Number: 15694
10. Pool name or Wildcat
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,678' GL

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well Gas Well Other - UIC Injection Well

2. Name of Operator
HF SINCLAIR NAVAJO REFINERY LLC

3. Address of Operator
P.O. Box 159, Artesia, NM 88210

4. Well Location
Unit Letter O 659 feet from the South line and 2,377 feet from the EAST line
Section 31 Township 17S Range 28E NMPM County: EDDY

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> DOWNHOLE COMMINGLE <input type="checkbox"/> CLOSED-LOOP SYSTEM <input type="checkbox"/> OTHER:	PLUG AND ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/>	SUBSEQUENT REPORT OF: REMEDIAL WORK <input checked="" type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/> OTHER: PRESSURE FALLOFF TEST / MIT <input checked="" type="checkbox"/>	ALTERING CASING <input type="checkbox"/> P AND A <input type="checkbox"/>
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13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

- On January 10th, 2026 ClearWell Rig 152 was mobilized to the WDW 1 location. A tubing punch was used to put circulating holes in the existing tubing and the well was killed using 11.6 lb/gal CaCl kill brine.
- The existing 4 1/2-inch injection tubing was pulled from the well, and a bridge plug was run to 7,882 feet. The casing was pressure tested to 565 psi. This test lost 0.7 psi in 30 minutes, or 0.1%, well within the OCD requirements of less than 10% loss in 30 minutes.
- A casing inspection log was run from surface to 7,817 feet (Attachment 2). The casing inspection log indicated that the 7-inch casing was suitable for continued use.
- A new AS1X packer was run in and set at 7,862 feet (center element) on new 4 1/2-inch 11.6 lb/ft P110 tubing. The annulus was circulated with 9.3 lb/gal CaCl2 and corrosion inhibitor.
- An official mechanical integrity test (MIT) was conducted on January 23rd, 2026. The annulus was pressurized to approximately 760 psi, and over the 30 minute test period the well lost 3.9 psi, or 0.5%, well within the OCD standard of no more than 10% pressure loss in 30 minutes.
- On January 24th a 20-gallon diesel blanket was displaced to below the packer, and all equipment was rigged down and moved off location.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE  TITLE Environmental Manager DATE 2-16-26

Type or print name Case Hinkins E-mail address: Case.Hinkins@HFSinclair.com PHONE: (575) 746-5399

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):



Technical
Report

**DEEPWELL WORKOVER REPORT
CLASS I NON-HAZARDOUS DEEPWELL**

WDW-1
(OCD UIC Permit: UICI-008-1)
(API Number: 30-015-27592)



Navajo Refining Company
Artesia, New Mexico

Section 31, Township 17S, Range 28E
659 FSL, 2,377 FWL

February 2026

5935 South Zang Street, Suite 200
Littleton, Colorado 80127
Phone: (303) 290-9414
Fax: (303) 290-9580

TECHNICAL REPORT
DEEPWELL WORKOVER REPORT
CLASS I NON-HAZARDOUS DEEPWELL WDW-1
 (OCD UIC Permit: UICI-008-1)
 (API Number: 30-015-27592)

Navajo Refining Company
 Artesia, New Mexico

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1.0 INTRODUCTION

This report summarizes the workover performed on the WDW-1 well at the HF Sinclair Navajo Refining Company (HFSNR) facility in Artesia, New Mexico from January 10th through January 23rd, 2026. These activities were performed in accordance with the Form C-103 Workover submitted to the New Mexico Oil Conservation Division (OCD) on October 6, 2025. The Plan and OCD correspondence are provided in Attachment 1.

HFSNR currently operates four Class I Non-Hazardous waste injection wells at the HFSNR refinery. Underground sources of drinking water (USDWs) are protected by multiple strings of casing and cement circulated to surface in each of the wells. Waste fluids are delivered to the injection interval in WDW-1 via 4 1/2-inch diameter 11.6 lb/ft, P110 steel injection tubing.

The annulus area between the protective casing and injection tubing is filled with an inhibited brine. The annulus pressure is continually monitored to detect any potential leaks in the tubing or casing.

Unless otherwise noted, depths recorded in this report related to the stimulation are referenced to measured depth from Kelly Bushing (KB).

2.0 SUMMARY OF WORK ACTIVITIES

Field activities involved removing the existing injection tubing, running a casing scraper, running a casing inspection log, and running new 4 ½-inch injection tubing and a new injection packer. Sage Environmental supervised field activities, with Petrotek providing 3rd party oversight.

On January 10th, 2026 ClearWell Rig 152 was mobilized to the WDW 1 location. A tubing punch was used to put circulating holes in the existing tubing and the well was killed using 11.6 lb/gal CaCl kill brine.

The existing 4 ½-inch injection tubing was pulled from the well, and a bridge plug was run to 7,882 feet. The casing was pressure tested to 565 psi. This test lost 0.7 psi in 30 minutes, or 0.1%, well within the OCD requirements of less than 10% loss in 30 minutes.

A casing inspection log was run from surface to 7,817 feet (Attachment 2). The casing inspection log indicated that the 7-inch casing was suitable for continued use.

A new AS1X packer was run in and set at 7,862 feet (center element) on new 4 ½-inch 11.6 lb/ft P110 tubing. The annulus was circulated with 9.3 lb/gal CaCl₂ and corrosion inhibitor. A wellbore diagram showing the packer depth is included as Figure 1, and a completion detail and tally is included as Attachment 3.

An official mechanical integrity test (MIT) was conducted on January 23rd, 2026. The annulus was pressurized to approximately 760 psi, and over the 30 minute test period the well lost 3.9 psi, or 0.5%, well within the OCD standard of no more than 10% pressure loss in 30 minutes. The results of the MIT are presented in Table 1 below. The circle chart for the MIT is included as Attachment 4.

Table 1
Mechanical Integrity Test

Time	11:35	11:40	11:45	11:50	11:55	12:00	12:05
Annulus Pressure	755.7	754.3	753.5	752.9	752.5	752.1	751.8

The MIT data was sent to OCD via email which authorized the well to be returned to injection (Correspondence included in Attachment 1). On January 24th a 20-gallon diesel blanket was displaced to below the packer, and all equipment was rigged down and moved off location.

Attachment 3

Completion Detail and Tubing Tally

Petrotek

HFSNR WDW-1 Workover

4 1/2" 11.6.#/ft, L-80, LTC

7-inch 29# shoe @: 9,094 feet KB, PBTD 9,004 feet KB

KB [feet]: 12.5

11.60 #/ft

Top of landing bowl AGL [feet]: 2.2

Bottomhole Assembly Detail				
Item	Description	Length (ft)	lb/ft	4-1/2" + BHA Feet KB
1	On/Off tool, 3.5" pin x 4.5" box XO to CE 3.5" x 7.0" AS1X	8.60	30.00	7,861.93
2	3.5" x 7.0" AS1X CE to bottom	2.60	30.00	7,864.53
3	1K top/10K bottom pump out disk	1.28	11.60	7,865.81
4	3.5" 9.2#/ft, L-80 tail joint	8.22	9.20	7,874.03
5	Wireline entry guide	0.48	9.20	7,874.51
Total BHA:		21.18		
Total to AS1X CE:		8.60		

4 1/2" 11.6.#/ft, L-80, LTC	Joint Length	4-1/2" + BHA Running Tally	4-1/2" + BHA CE Feet KB	4-1/2" Tally	Running WOB (lbs)
BHA to CE		8.60	18.90		0
1	45.21	53.81	64.11	45.21	624
2	45.22	99.03	109.33	90.43	1,149
3	45.20	144.23	154.53	135.63	1,673
4	45.20	189.43	199.73	180.83	2,197
5	45.21	234.64	244.94	226.04	2,722
6	45.20	279.84	290.14	271.24	3,246
7	45.18	325.02	335.32	316.42	3,770
8	45.17	370.19	380.49	361.59	4,294
9	45.17	415.36	425.66	406.76	4,818
10	45.20	460.56	470.86	451.96	5,342
11	45.22	505.78	516.08	497.18	5,867
12	45.18	550.96	561.26	542.36	6,391
13	45.20	596.16	606.46	587.56	6,915
14	45.17	641.33	651.63	632.73	7,439
15	45.21	686.54	696.84	677.94	7,964
16	45.18	731.72	742.02	723.12	8,488
17	45.20	776.92	787.22	768.32	9,012
18	45.18	822.10	832.40	813.50	9,536
19	45.20	867.30	877.60	858.70	10,061
20	45.20	912.50	922.80	903.90	10,585
21	45.19	957.69	967.99	949.09	11,109
22	45.20	1,002.89	1,013.19	994.29	11,634
23	45.20	1,048.09	1,058.39	1,039.49	12,158
24	45.18	1,093.27	1,103.57	1,084.67	12,682
25	45.20	1,138.47	1,148.77	1,129.87	13,206
26	45.20	1,183.67	1,193.97	1,175.07	13,731
27	45.20	1,228.87	1,239.17	1,220.27	14,255
28	45.20	1,274.07	1,284.37	1,265.47	14,779
29	45.18	1,319.25	1,329.55	1,310.65	15,303
29	45.20	1,364.45	1,374.75	1,355.85	15,828
31	45.17	1,409.62	1,419.92	1,401.02	16,352
32	45.20	1,454.82	1,465.12	1,446.22	16,876
33	45.20	1,500.02	1,510.32	1,491.42	17,400
34	45.16	1,545.18	1,555.48	1,536.58	17,924
35	45.20	1,590.38	1,600.68	1,581.78	18,448
36	45.22	1,635.60	1,645.90	1,627.00	18,973
37	45.22	1,680.82	1,691.12	1,672.22	19,498
38	45.20	1,726.02	1,736.32	1,717.42	20,022
39	45.18	1,771.20	1,781.50	1,762.60	20,546
40	45.21	1,816.41	1,826.71	1,807.81	21,070
41	45.16	1,861.57	1,871.87	1,852.97	21,594
42	45.20	1,906.77	1,917.07	1,898.17	22,119
43	45.16	1,951.93	1,962.23	1,943.33	22,642
44	45.20	1,997.13	2,007.43	1,988.53	23,167
45	45.17	2,042.30	2,052.60	2,033.70	23,691
46	45.20	2,087.50	2,097.80	2,078.90	24,215
47	45.20	2,132.70	2,143.00	2,124.10	24,739
48	45.20	2,177.90	2,188.20	2,169.30	25,264
49	45.17	2,223.07	2,233.37	2,214.47	25,788

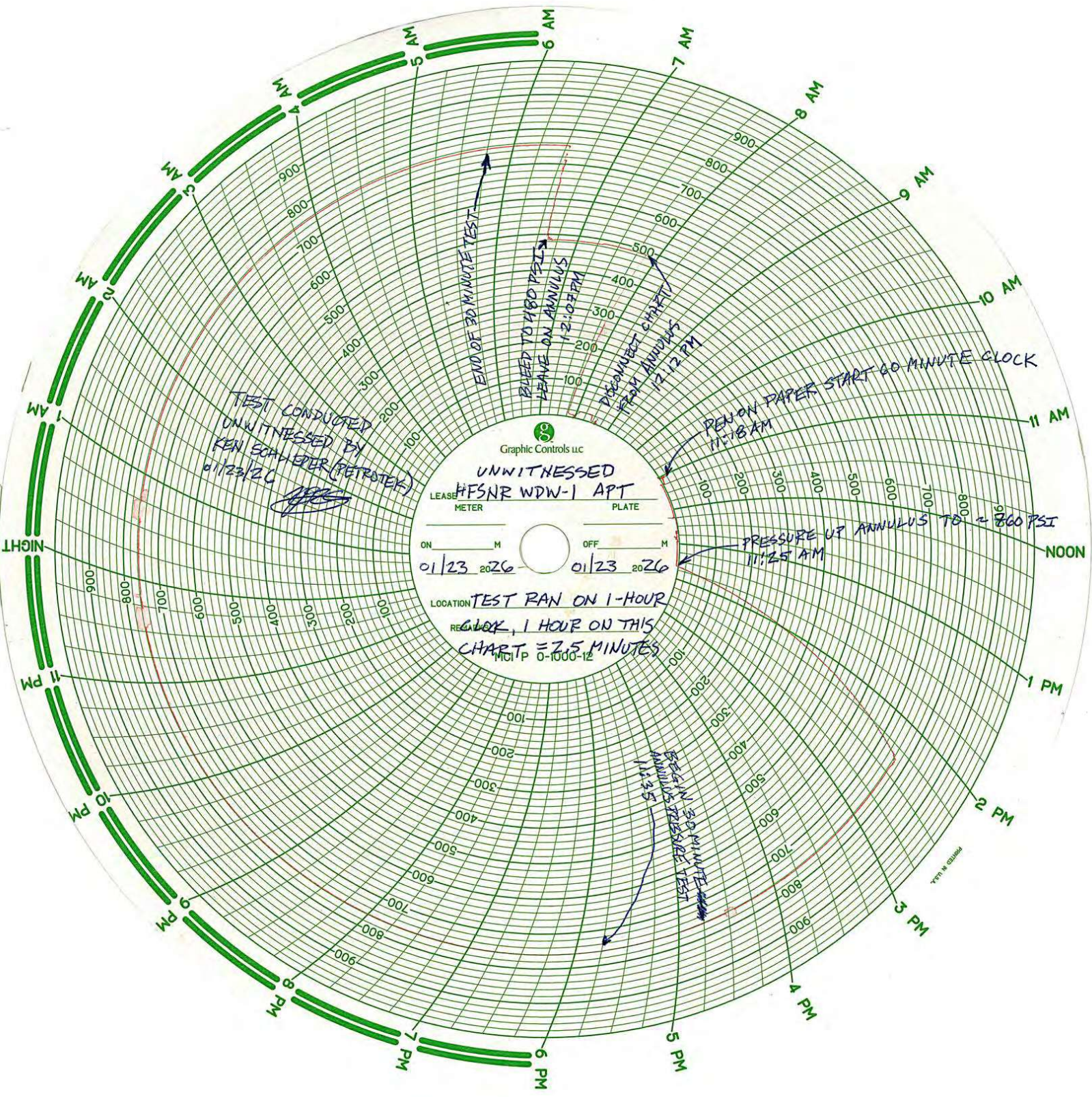


4 1/2" 11.6.#/ft, L-80, LTC	Joint Length	4-1/2" + BHA Running Tally	4-1/2" + BHA CE Feet KB	4-1/2" Tally	Running WOB (lbs)
50	45.16	2,268.23	2,278.53	2,259.63	26,311
51	45.20	2,313.43	2,323.73	2,304.83	26,836
52	45.17	2,358.60	2,368.90	2,350.00	27,360
53	45.16	2,403.76	2,414.06	2,395.16	27,884
54	45.16	2,448.92	2,459.22	2,440.32	28,407
55	45.20	2,494.12	2,504.42	2,485.52	28,932
56	45.20	2,539.32	2,549.62	2,530.72	29,456
57	45.20	2,584.52	2,594.82	2,575.92	29,980
58	45.22	2,629.74	2,640.04	2,621.14	30,505
59	45.25	2,674.99	2,685.29	2,666.39	31,030
60	45.30	2,720.29	2,730.59	2,711.69	31,555
61	45.26	2,765.55	2,775.85	2,756.95	32,080
62	45.20	2,810.75	2,821.05	2,802.15	32,605
63	45.26	2,856.01	2,866.31	2,847.41	33,130
64	45.20	2,901.21	2,911.51	2,892.61	33,654
65	45.20	2,946.41	2,956.71	2,937.81	34,178
66	45.21	2,991.62	3,001.92	2,983.02	34,703
67	45.21	3,036.83	3,047.13	3,028.23	35,227
68	45.21	3,082.04	3,092.34	3,073.44	35,752
69	45.15	3,127.19	3,137.49	3,118.59	36,275
70	45.20	3,172.39	3,182.69	3,163.79	36,800
71	45.21	3,217.60	3,227.90	3,209.00	37,324
72	45.19	3,262.79	3,273.09	3,254.19	37,848
73	45.18	3,307.97	3,318.27	3,299.37	38,372
74	45.20	3,353.17	3,363.47	3,344.57	38,897
75	45.20	3,398.37	3,408.67	3,389.77	39,421
76	45.21	3,443.58	3,453.88	3,434.98	39,946
77	45.20	3,488.78	3,499.08	3,480.18	40,470
78	45.21	3,533.99	3,544.29	3,525.39	40,994
79	45.25	3,579.24	3,589.54	3,570.64	41,519
80	45.20	3,624.44	3,634.74	3,615.84	42,044
81	45.25	3,669.69	3,679.99	3,661.09	42,568
82	45.20	3,714.89	3,725.19	3,706.29	43,093
83	45.26	3,760.15	3,770.45	3,751.55	43,618
84	45.20	3,805.35	3,815.65	3,796.75	44,142
85	45.19	3,850.54	3,860.84	3,841.94	44,666
86	45.20	3,895.74	3,906.04	3,887.14	45,191
87	45.22	3,940.96	3,951.26	3,932.36	45,715
88	45.20	3,986.16	3,996.46	3,977.56	46,239
89	45.26	4,031.42	4,041.72	4,022.82	46,764
90	45.19	4,076.61	4,086.91	4,068.01	47,289
91	45.20	4,121.81	4,132.11	4,113.21	47,813
92	45.19	4,167.00	4,177.30	4,158.40	48,337
93	45.25	4,212.25	4,222.55	4,203.65	48,862
94	45.21	4,257.46	4,267.76	4,248.86	49,387
95	45.20	4,302.66	4,312.96	4,294.06	49,911
96	45.21	4,347.87	4,358.17	4,339.27	50,435
97	45.21	4,393.08	4,403.38	4,384.48	50,960
98	45.20	4,438.28	4,448.58	4,429.68	51,484
99	45.26	4,483.54	4,493.84	4,474.94	52,009
100	45.24	4,528.78	4,539.08	4,520.18	52,534
101	45.24	4,574.02	4,584.32	4,565.42	53,059
102	45.19	4,619.21	4,629.51	4,610.61	53,583
103	45.20	4,664.41	4,674.71	4,655.81	54,107
104	45.22	4,709.63	4,719.93	4,701.03	54,632
105	45.20	4,754.83	4,765.13	4,746.23	55,156
106	45.15	4,799.98	4,810.28	4,791.38	55,680
107	45.19	4,845.17	4,855.47	4,836.57	56,204
108	45.19	4,890.36	4,900.66	4,881.76	56,728
109	45.20	4,935.56	4,945.86	4,926.96	57,252
110	45.21	4,980.77	4,991.07	4,972.17	57,777
111	45.20	5,025.97	5,036.27	5,017.37	58,301
112	45.20	5,071.17	5,081.47	5,062.57	58,826
113	45.20	5,116.37	5,126.67	5,107.77	59,350
114	45.20	5,161.57	5,171.87	5,152.97	59,874
115	45.20	5,206.77	5,217.07	5,198.17	60,399
116	45.21	5,251.98	5,262.28	5,243.38	60,923
117	45.22	5,297.20	5,307.50	5,288.60	61,448
118	45.20	5,342.40	5,352.70	5,333.80	61,972
119	45.23	5,387.63	5,397.93	5,379.03	62,497
120	45.20	5,432.83	5,443.13	5,424.23	63,021
121	45.20	5,478.03	5,488.33	5,469.43	63,545

4 1/2" 11.6.#/ft, L-80, LTC	Joint Length	4-1/2" + BHA Running Tally	4-1/2" + BHA CE Feet KB	4-1/2" Tally	Running WOB (lbs)
122	45.15	5,523.18	5,533.48	5,514.58	64,069
123	45.25	5,568.43	5,578.73	5,559.83	64,594
124	45.20	5,613.63	5,623.93	5,605.03	65,118
125	45.19	5,658.82	5,669.12	5,650.22	65,642
126	45.20	5,704.02	5,714.32	5,695.42	66,167
127	45.20	5,749.22	5,759.52	5,740.62	66,691
128	45.19	5,794.41	5,804.71	5,785.81	67,215
129	45.20	5,839.61	5,849.91	5,831.01	67,739
130	45.20	5,884.81	5,895.11	5,876.21	68,264
131	45.20	5,930.01	5,940.31	5,921.41	68,788
132	45.19	5,975.20	5,985.50	5,966.60	69,312
133	45.20	6,020.40	6,030.70	6,011.80	69,837
134	45.15	6,065.55	6,075.85	6,056.95	70,360
135	45.19	6,110.74	6,121.04	6,102.14	70,885
136	45.15	6,155.89	6,166.19	6,147.29	71,408
137	45.25	6,201.14	6,211.44	6,192.54	71,933
138	45.19	6,246.33	6,256.63	6,237.73	72,457
139	45.26	6,291.59	6,301.89	6,282.99	72,982
140	45.23	6,336.82	6,347.12	6,328.22	73,507
141	45.25	6,382.07	6,392.37	6,373.47	74,032
142	45.29	6,427.36	6,437.66	6,418.76	74,557
143	45.21	6,472.57	6,482.87	6,463.97	75,082
144	45.20	6,517.77	6,528.07	6,509.17	75,606
145	45.18	6,562.95	6,573.25	6,554.35	76,130
146	45.20	6,608.15	6,618.45	6,599.55	76,655
147	45.18	6,653.33	6,663.63	6,644.73	77,179
148	45.18	6,698.51	6,708.81	6,689.91	77,703
149	45.16	6,743.67	6,753.97	6,735.07	78,227
150	45.20	6,788.87	6,799.17	6,780.27	78,751
151	45.24	6,834.11	6,844.41	6,825.51	79,276
152	45.24	6,879.35	6,889.65	6,870.75	79,800
153	45.22	6,924.57	6,934.87	6,915.97	80,325
154	45.20	6,969.77	6,980.07	6,961.17	80,849
155	45.20	7,014.97	7,025.27	7,006.37	81,374
156	45.20	7,060.17	7,070.47	7,051.57	81,898
157	45.21	7,105.38	7,115.68	7,096.78	82,422
158	45.18	7,150.56	7,160.86	7,141.96	82,946
159	45.21	7,195.77	7,206.07	7,187.17	83,471
160	45.20	7,240.97	7,251.27	7,232.37	83,995
161	45.20	7,286.17	7,296.47	7,277.57	84,520
162	45.22	7,331.39	7,341.69	7,322.79	85,044
163	45.22	7,376.61	7,386.91	7,368.01	85,569
164	45.20	7,421.81	7,432.11	7,413.21	86,093
165	45.20	7,467.01	7,477.31	7,458.41	86,617
166	45.21	7,512.22	7,522.52	7,503.62	87,142
167	45.20	7,557.42	7,567.72	7,548.82	87,666
168	45.20	7,602.62	7,612.92	7,594.02	88,190
169	45.20	7,647.82	7,658.12	7,639.22	88,715
170	45.19	7,693.01	7,703.31	7,684.41	89,239
171	45.18	7,738.19	7,748.49	7,729.59	89,763
172	45.20	7,783.39	7,793.69	7,774.79	90,287
PUP	4.07	7,787.46	7,797.76	7,778.86	90,335
PUP	8.05	7,795.51	7,805.81	7,786.91	90,428
PUP	10.05	7,805.56	7,815.86	7,796.96	90,544
173	45.20	7,850.76	7,861.06	7,842.16	91,069
4.5" hanger	0.87	7,851.63	7,861.93	7,843.03	91,079
174	45.18	7,895.94	7,906.24	7,887.34	91,593
175	45.18	7,941.12	7,951.42	7,932.52	92,117
176	45.20	7,986.32	7,996.62	7,977.72	92,641
177	45.17	8,031.49	8,041.79	8,022.89	93,165
178	45.22	8,076.71	8,087.01	8,068.11	93,690

Attachment 4 MIT Circle Chart

Petrotek





**BURST PRESSURE APPENDIX
INTERPRETATION GUIDE
NUMBERED SECTIONS CORRESPOND TO KEY**

1

UWI:
Inspection Date:
Report Date:
Interaction Criteria Selected: 3x Thickness

Of the 248 joints inspected, 17 were found to be breached.

Effective Area Analysis yielded a limiting burst pressure of 14821 psi at Joint No. 137 (10698 ft) with a max defect depth of 0.06 in.

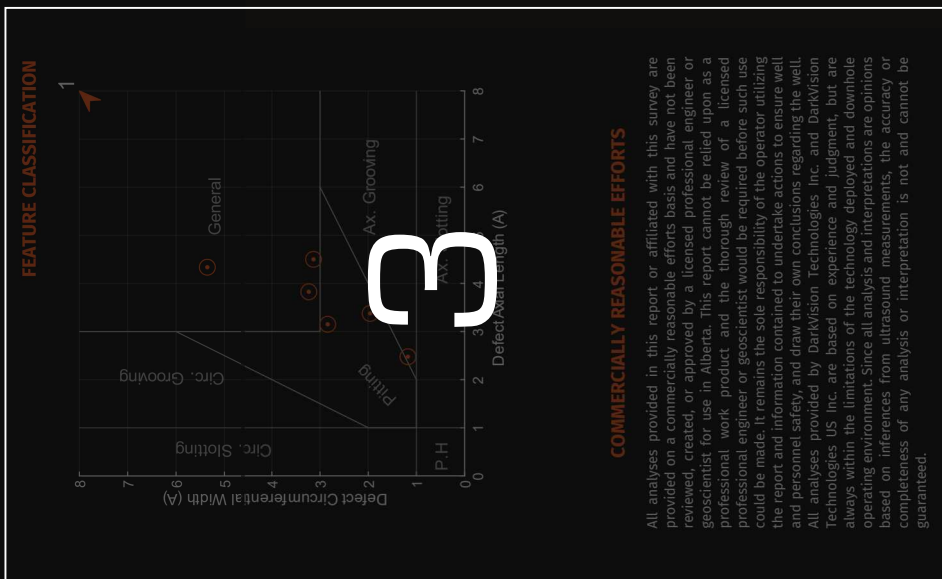
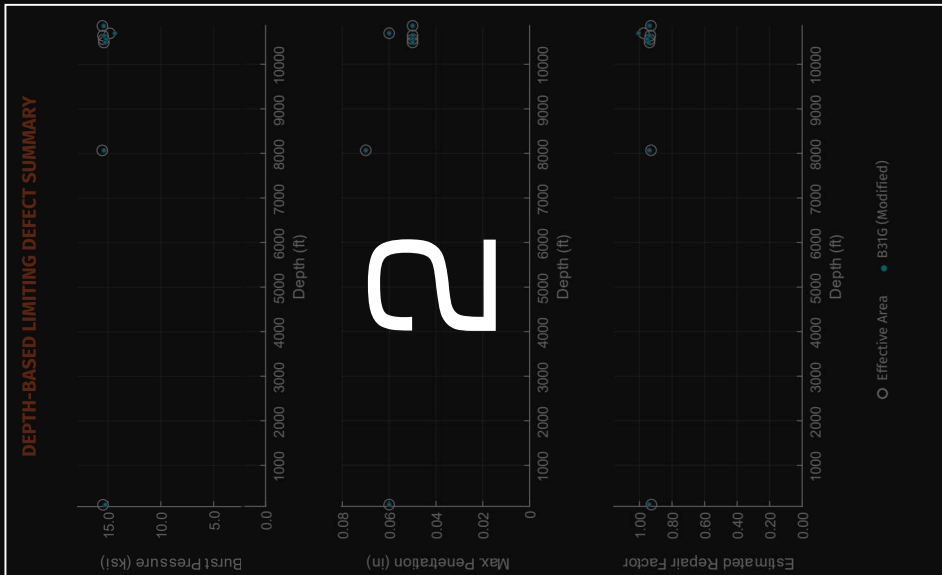
Modified B31G Analysis yielded a limiting burst pressure of 14352 psi at Joint No. 137 (10698 ft) with a max defect depth of 0.06 in.

4

JOINT SUMMARY TABLE

Classification	Wall loss	Number of joints
Class 0	<12.5%	X
Class 1	12.5 - <20%	X
Class 2	20 - <30%	X
Class 3	30 - <40%	X
Class 4	40 - <50%	X
Class 5*	50 - <60%	X
Breach	60 - <100%	X
	70 - <80%	X
	80 - <100%	X
	100%	X

*Note: The presence of class 5 defects warrants detailed engineering assessments to determine burst pressure. No governing burst pressure result is displayed if any class 5 defect or breach is detected.



OPERATOR
WELL IDENTIFIER
 Joint No. Overview

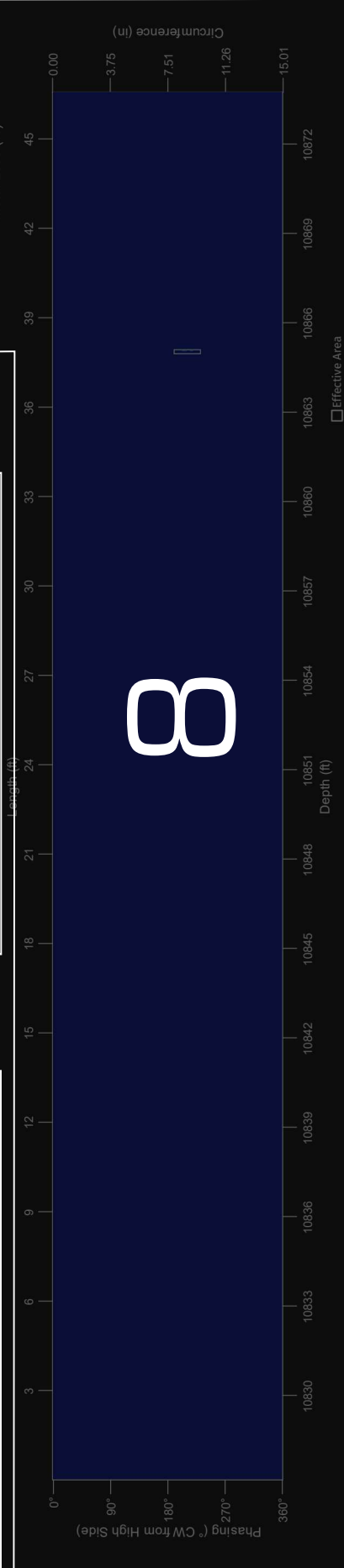
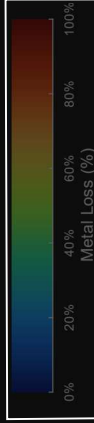
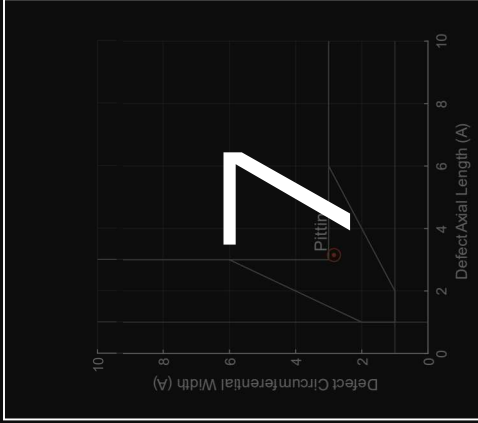
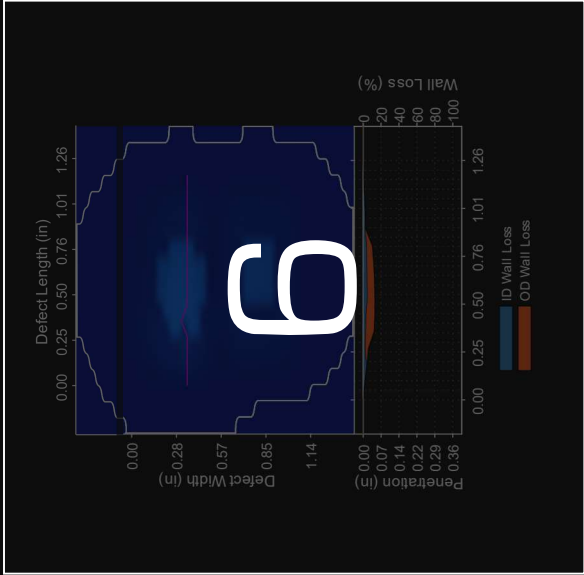


LIMITING DEFECT SUMMARY

Depth	10865.0 ft.
Distance to UHC	37.8 ft.
Length (Axial Dimension)	1.26 in.
Width (Circumferential Dimension)	1.14 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	13 %
Burst Pressure (Effective Area)	15531.8 psi
Burst Pressure (Effective Area)	15395.6 psi

JOINT INFORMATION

Nom. Casing ID	4.778 in.
Nom. Casing OD	5.5 in.
Nom. Casing Thickness	0.361 in.
sFlow	120 ksi
SMYS	110 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	13 %



INTERPRETATION KEY

1	<ul style="list-style-type: none"> ▪ Analysis Input Summary: Operator name, unique well identifier, date of inspection/report, and interaction criteria selected for the analysis. ▪ Interaction Criteria: The rule by which multiple defects are considered to be interacting with each other and treated as a single anomaly for analysis purposes. <ul style="list-style-type: none"> ○ A consistent length is added to both the circumferential and axial extents of each defect, expanding the dimension of each defect by an equal amount in both axes. ○ The expansion amount is a multiple of wall thickness as selected on the analysis questionnaire. Options include: 1.5 wt. x 1.5 wt., 3 wt. x 3 wt. or 6 wt. x 6 wt. ○ If two sets of expanded defect extents overlap with each other, then these defects are considered interacting and are analyzed as one continuous defect. ○ The interaction rule is applied consistently for both the Riverbottom Effective Area and Modified B31G analysis. ▪ Results Summary: This section describes the limiting defect location/joint, maximum depth, and calculated burst pressure for both methodologies. <ul style="list-style-type: none"> ○ If an unexpected breach was located, it represents the limiting defect and is stated here. If no breaches were identified, it is explicitly stated here. ▪ In the event of an unexpected breach the remaining analysis is still conducted such that if the breach were repaired or isolated, the remaining burst pressure analysis would still be valid. ○ Results from both the Riverbottom Effective Area (and if applicable iterative) Analysis and Modified B31G methods results are listed here. <ul style="list-style-type: none"> ▪ In many instances the limiting defect will be the same for both analysis methodologies, however, depending on the profile of the defects, it is possible to generate results which provide unique limiting defects for each analysis methodology.
2	<ul style="list-style-type: none"> ▪ Depth-Based Defect Summary: These three plots represent the limiting defects analyzed in the report using three metrics; burst pressure, maximum penetration of defect and estimated repair factor (ERF). <ul style="list-style-type: none"> ○ There are two unique markers used in the plots, the white circle marker denotes results from the Riverbottom Effective Area Methodology (or Iterative Riverbottom Analysis) and the cyan dot marker denotes results from the Modified B31G Methodology. ○ When the two-analysis yield very similar results the cyan marker will be centered within the white marker. ○ When the two-analysis yield dissimilar results the cyan marker will be located outside of the white marker. ○ This can be used at a glance to compare location and understand the influence of the analysis methodology for each limiting defect. ▪ Burst Pressure: The calculated burst pressure for each of the analysis methodologies versus depth of defect. ▪ Maximum Penetration: The maximum penetration or defect depth utilized in the burst pressure calculation for each methodology. Note that this plot represents maximum penetration from the limiting defect which is not always the same as the maximum penetration on a given joint. ▪ Estimated Repair Factor: A calculated value determined by taking the ratio of Maximum Allowable Operating Pressure (MAOP from questionnaire) to the Burst Pressure (MAOP/P_{burst}) for each joint's limiting defect. <ul style="list-style-type: none"> ○ An ERF value of 1 denotes that the burst pressure is equal to the MAOP. ○ An ERF value greater than one denotes that $P_{burst} < MAOP$ and the casing cannot support the MAOP ○ If no MAOP is provided, Barlow's burst pressure equation utilizing nominal wall thickness is used to define MAOP
3	<ul style="list-style-type: none"> ▪ Feature Classification: This plot is used to group defects based on their dimensions in the axial and circumferential directions. <ul style="list-style-type: none"> ○ The measured values are presented as a function of wall thickness or units of A ○ A = wall thickness ○ If wall thickness $< 0.4"$ (10.2 mm) then $A = 0.4"$ (10.2 mm) ○ If defects fall outside the graph scale, the count of defects outside each region are denoted above an arrow at the edge of the classification region. ▪ This plot can be used to identify patterns in the nature of the defects and can provide insight to the causes of the defects.
4	<ul style="list-style-type: none"> ▪ Joint Summary Table: This table summarizes the count of defects by severity of wall loss. <ul style="list-style-type: none"> ○ The burst pressure analysis is conducted for all defects with 12.5% or greater wall loss ○ 12.5% is the tolerance for wall thickness from API 5L and was therefore selected as the threshold for conducting the burst pressure analysis. ○ All defects are included in the burst pressure analysis ○ If a joint was identified to 80% or greater wall loss, the burst pressure calculations are not conducted. ○ Any defect with 80% or greater wall loss is flagged in the specific joint overview page and the results are not computed due to the severity of the defect. ○ Any defect classified as a breach is also listed in the summary table.

<p style="text-align: center; font-size: 2em; font-weight: bold;">5</p>	<ul style="list-style-type: none"> ▪ Limiting Defect Summary: This table summarizes the location and measurements for the Riverbottom Effective Area limiting defect. <ul style="list-style-type: none"> ○ For comparison the Modified B31G burst pressure is also displayed, it is important to note that in some cases these burst pressures can represent different defects (see section 8 for more information) ○ The maximum penetration on the joint is also listed here. Depending on the shape and extent of the limiting defect, the location of maximum penetration is not always the limiting defect. ▪ Joint Information: This table summarizes the relevant joint information and the casing dimensions used for the burst pressure analysis (I.D., O.D., wall thickness and flow stress) <ul style="list-style-type: none"> ○ Flow Stress: The instantaneous value of stress required to continually deform the casing plastically. Flow stress is greater than yield stress and less than fracture stress. ○ For B31G analysis the flow stress is typically defined as: $S_{flow} = 10 \text{ ksi (68.95 MPa)} + \text{specified minimum yield strength (SMYS)}$
<p style="text-align: center; font-size: 2em; font-weight: bold;">6</p>	<ul style="list-style-type: none"> ▪ High-Resolution River Bottom Limiting Defect Heatmap: This plot displays the wall loss profile of the Riverbottom Effective Area limiting defect. <ul style="list-style-type: none"> ○ The heatmap provides a zoomed in perspective of the Riverbottom Effective Area limiting defect. ○ The Riverbottom Effective Area limiting defect is also indicated with a white perimeter box in the joint overview wall loss heatmap (refer to #8). <ul style="list-style-type: none"> ▪ Hotter colors denote deeper wall loss, the color legend can be found at the top right of the joint summary overview heatmap. ▪ The pink line traversing the defect is the riverbottom pathway which denotes the deepest path of wall loss along the defect. ▪ The river bottom depths are then transposed into the lower cross-sectional river bottom plot. ○ The cross-sectional plot shows the deepest wall loss for each axial slice along the defect. <ul style="list-style-type: none"> ▪ The cross-sectional plot is color coded to depict the location of the wall loss (ID and/or OD) ○ The area for the entire axial length of the defect is used in the Riverbottom Effective Area calculation ○ If selected, an iterative analysis on the effective area can be conducted <ul style="list-style-type: none"> ▪ This analysis further subdivides defects into 5mm length sub-regions and then iteratively conducts burst pressure calculations to determine the limiting sub-region ▪ This provides a more granular approach compared to Riverbottom Effective Area calculation as it permits a smaller sub-region of a defect to be limiting ▪ This approach is most impactful for long and non-uniform defects or multiple interacting defects with depths that vary widely over their total length ▪ The limiting subregion is shown in the cross-sectional plot as a hashed region ○ There is no detailed heatmap presented for the modified B31G limiting defect, for more details on the dimensions of the modified B31G limiting defect refer to the excel defect summary (refer to #9).
<p style="text-align: center; font-size: 2em; font-weight: bold;">7</p>	<ul style="list-style-type: none"> ▪ Single Defect Feature Classification: This plot is used to classify the Riverbottom Effective Area limiting defect based on the relative proportions of the axial and circumferential extents. <ul style="list-style-type: none"> ○ The measured values are presented as a function of wall thickness or units of A. ○ A = wall thickness. ○ If wall thickness < 0.4" (10.2 mm).
<p style="text-align: center; font-size: 2em; font-weight: bold;">8</p>	<ul style="list-style-type: none"> ▪ Joint Overview Wall Loss Heatmap: This plot displays all defects 12.5% or greater wall loss over the entire joint. <ul style="list-style-type: none"> ○ The Riverbottom Effective Area Methodology limiting defect is bounded with a white perimeter box. ○ The Modified B31G limiting defect is bounded with a cyan perimeter box. ○ If both analysis methodologies yield the same limiting defect, this defect is indicated by only a white perimeter box. ○ Hotter colors denote deeper wall loss, the color legend can be found at the top right of the joint summary overview heatmap.
<p style="text-align: center; font-size: 2em; font-weight: bold;">9</p>	<ul style="list-style-type: none"> ▪ Excel Defect Summary: This tabular summary provides metrics to compare the results for the Riverbottom Effective Area method and the modified B31G defect method.



BURST PRESSURE ANALYSIS
HF SINCLAIR
WDW-01

Well Identifier: 30-015-27592
 Inspection Date: January 19, 2025
 Report Date: January 23, 2026
 Primary Calc. Method: Effective Area
 Interaction Criteria: 3x Thickness

Of the 225 joints inspected, none were found to be breached.

Effective Area Analysis yielded a limiting burst pressure of 7591 psi at Joint No. 2 (49 ft) with a max defect depth of 0.09 in.

Modified B31G Analysis yielded a limiting burst pressure of 7260 psi at Joint No. 2 (49 ft) with a max defect depth of 0.09 in.

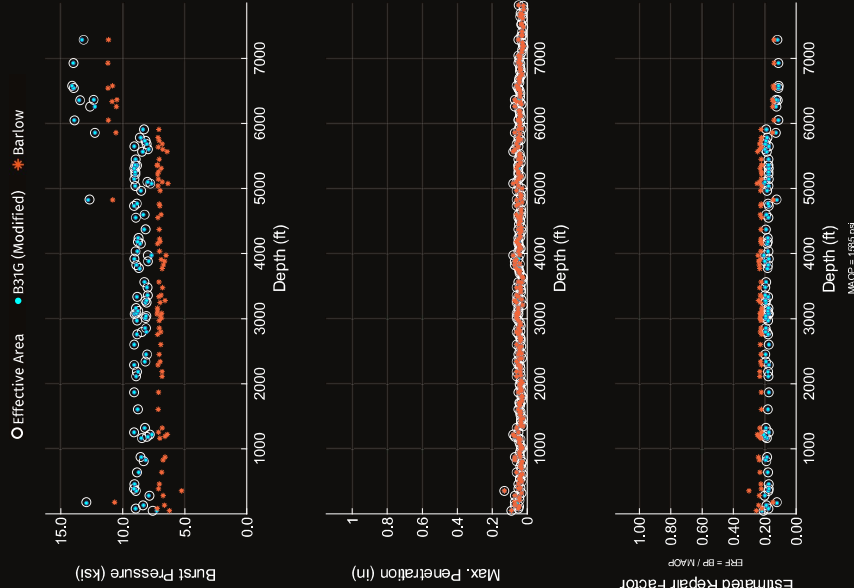
Barlow Analysis yielded a limiting burst pressure of 5258 psi at Joint No. 11 (354 ft) with a max defect depth of 0.13 in.

JOINT SUMMARY TABLE

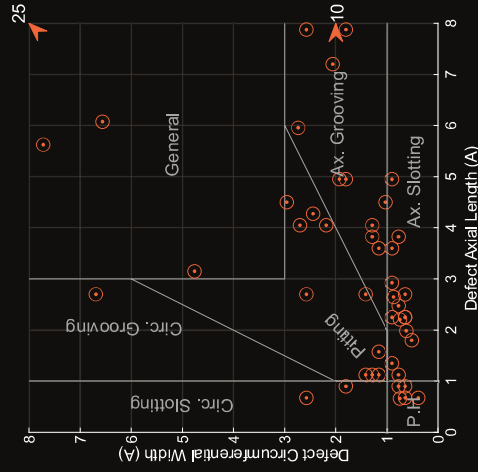
Classification	Wall loss	Number of joints
Class 0	<12.5%	143
Class 1	12.5 - <20%	71
Class 2	20 - <30%	10
Class 3	30 - <40%	1
Class 3	40 - <50%	0
Class 3	50 - <60%	0
Class 4	60 - <80%	0
Class 5*	80 - <100%	0
Breach	100%	0

*Note: The presence of class 5 defects warrants detailed engineering assessments to determine burst pressure. No governing burst pressure result is displayed if any class 5 defect or breach is detected.

DEPTH-BASED LIMITING DEFECT SUMMARY



FEATURE CLASSIFICATION



COMMERCIALLY REASONABLE EFFORTS

All analyses provided in this report or affiliated with this survey are provided on a commercially reasonable efforts basis and have not been reviewed, created, or approved by a licensed professional engineer or geoscientist for use in Alberta. This report cannot be relied upon as a professional work product and the thorough review of a licensed professional engineer or geoscientist would be required before such use could be made. It remains the sole responsibility of the operator utilizing the report and information contained to undertake actions to ensure well and personnel safety, and draw their own conclusions regarding the well. All analyses provided by DarkVision Technologies Inc. and DarkVision Technologies US Inc. are based on experience and judgment, but are always within the limitations of the technology deployed and downhole operating environment. Since all analysis and interpretations are opinions based on inferences from ultrasonic measurements, the accuracy or completeness of any analysis or interpretation is not and cannot be guaranteed.



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WDW-01

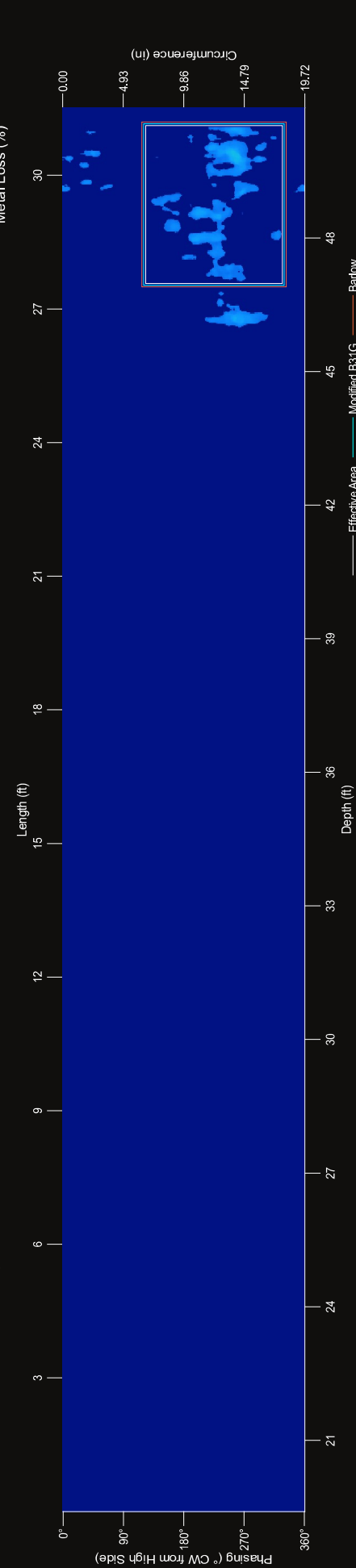
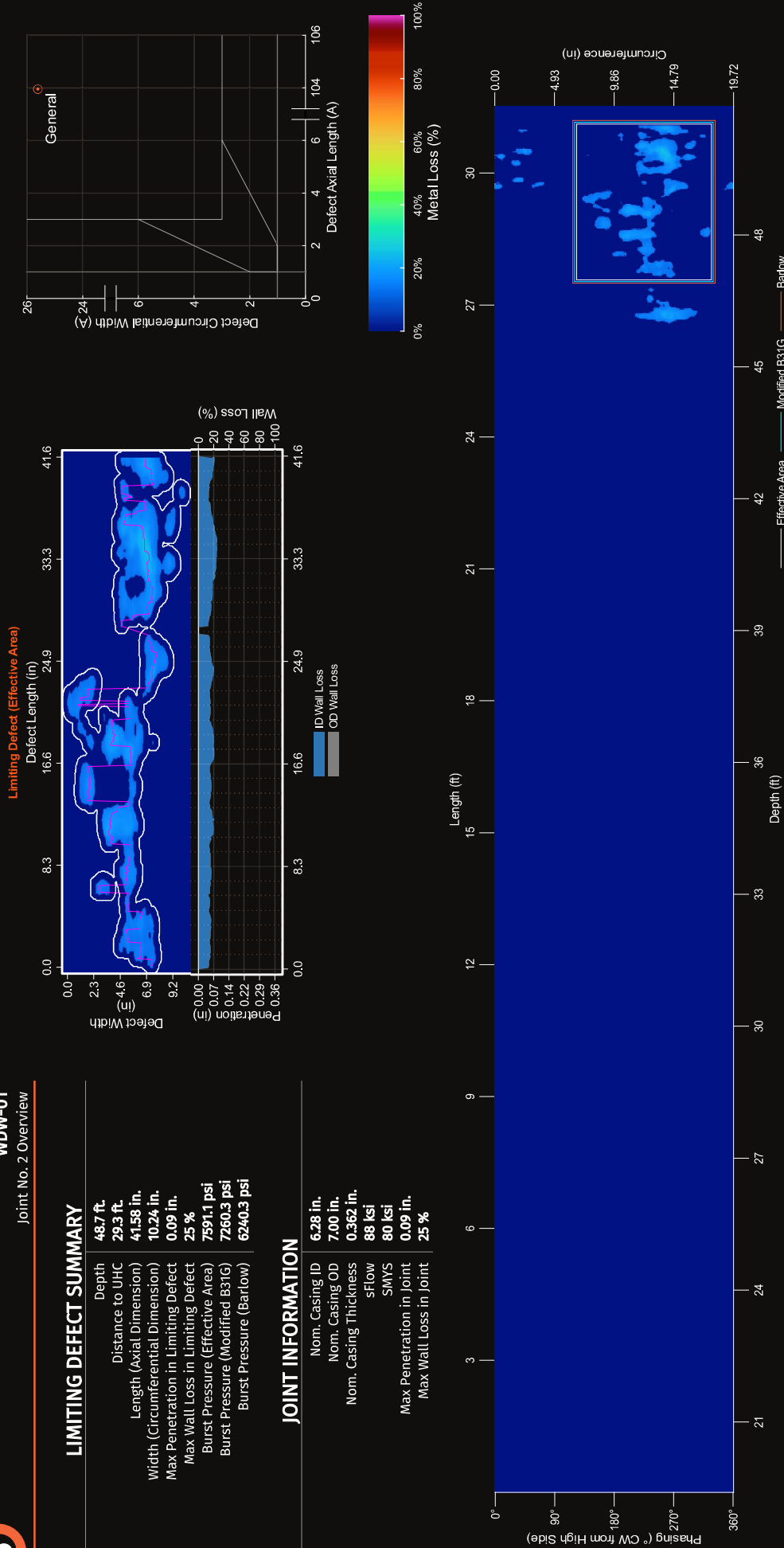
Joint No. 2 Overview

LIMITING DEFECT SUMMARY

Depth	48.7 ft
Distance to UHC	29.3 ft
Length (Axial Dimension)	41.58 in.
Width (Circumferential Dimension)	10.24 in.
Max Penetration in Limiting Defect	0.09 in.
Max Wall Loss in Limiting Defect	25 %
Burst Pressure (Effective Area)	7591.1 psj
Burst Pressure (Modified B31G)	7260.3 psi
Burst Pressure (Barlow)	6240.3 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.09 in.
Max Wall Loss in Joint	25 %





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WDW-01

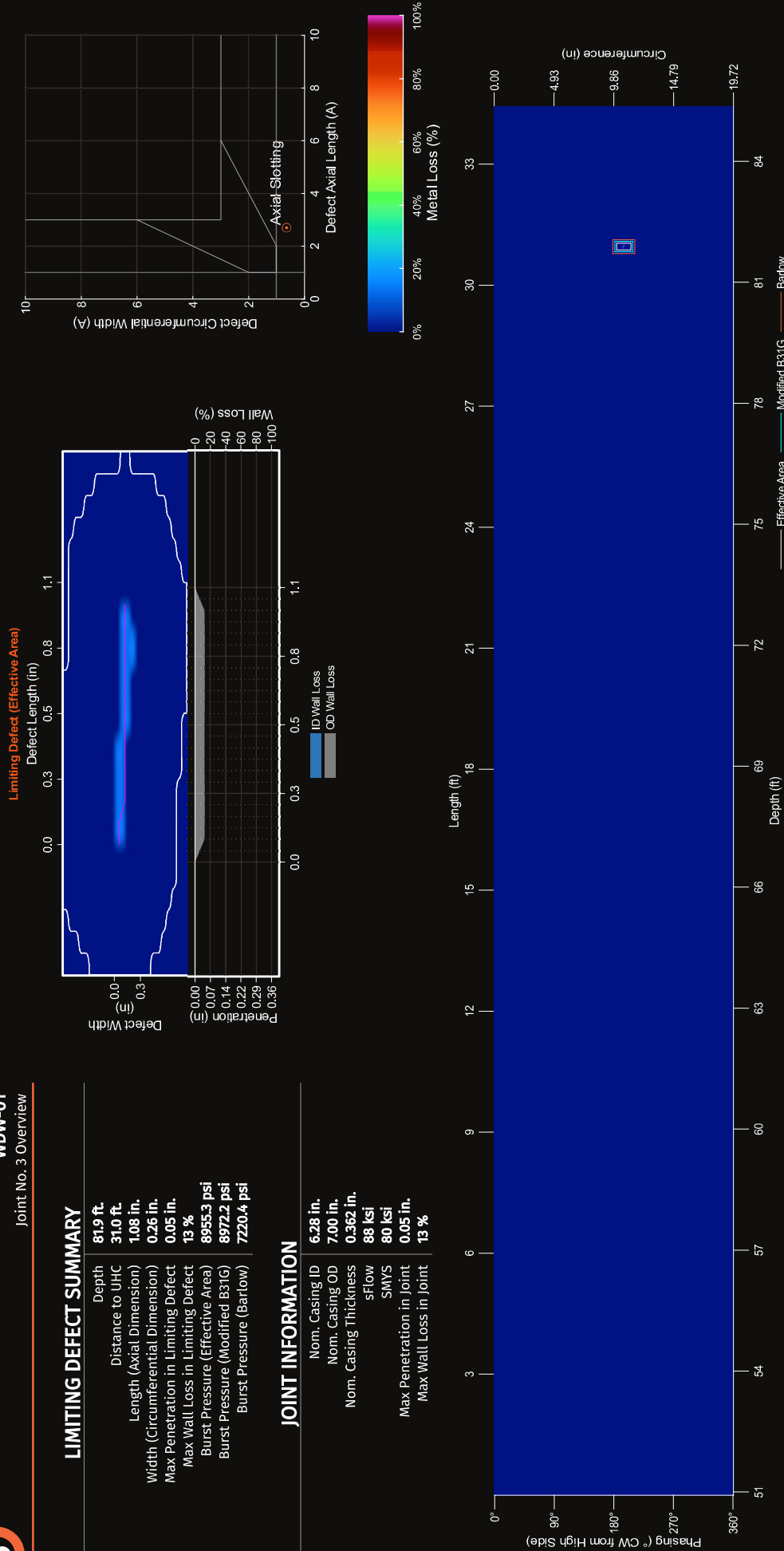
Joint No. 3 Overview

LIMITING DEFECT SUMMARY

Depth **81.9 ft.**
 Distance to UHC **31.0 ft.**
 Length (Axial Dimension) **1.08 in.**
 Width (Circumferential Dimension) **0.26 in.**
 Max Penetration in Limiting Defect **0.05 in.**
 Max Wall Loss in Limiting Defect **13 %**
 Burst Pressure (Effective Area) **8955.3 psi**
 Burst Pressure (Modified B31G) **8972.2 psi**
 Burst Pressure (Barlow) **7220.4 psi**

JOINT INFORMATION

Nom. Casing ID **6.28 in.**
 Nom. Casing OD **7.00 in.**
 Nom. Casing Thickness **0.362 in.**
 sFlow **88 ksi**
 SMYS **80 ksi**
 Max Penetration in Joint **0.05 in.**
 Max Wall Loss in Joint **13 %**





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WDW-01

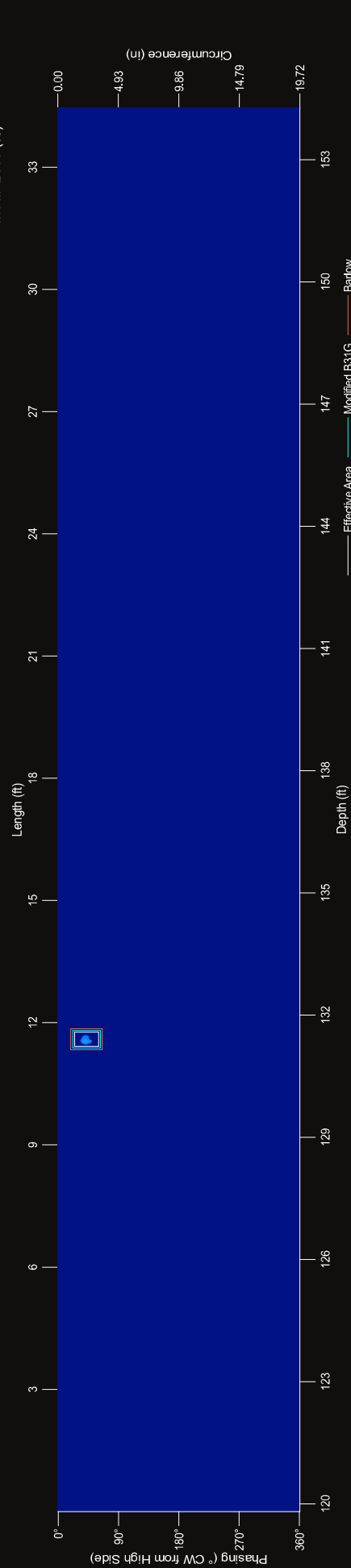
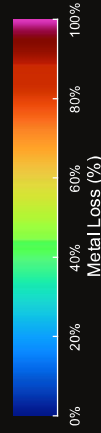
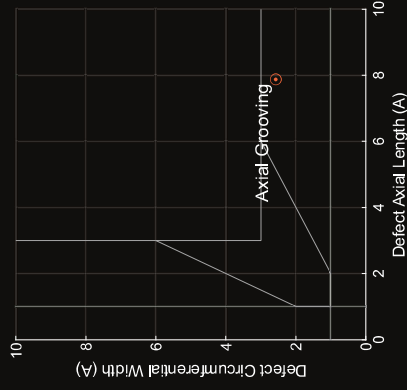
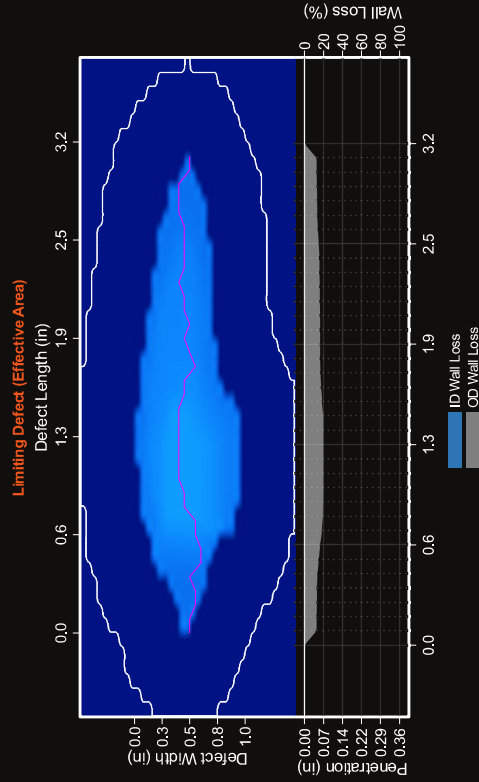
Joint No. 5 Overview

LIMITING DEFECT SUMMARY

Depth **131.4 ft.**
 Distance to UHC **11.6 ft.**
 Length (Axial Dimension) **3.15 in.**
 Width (Circumferential Dimension) **1.03 in.**
 Max Penetration in Limiting Defect **0.07 in.**
 Max Wall Loss in Limiting Defect **20 %**
 Burst Pressure (Effective Area) **8373.7 psi**
 Burst Pressure (Modified B31G) **8331.4 psi**
 Burst Pressure (Barlow) **6639.5 psi**

JOINT INFORMATION

Nom. Casing ID **6.28 in.**
 Nom. Casing OD **7.00 in.**
 Nom. Casing Thickness **0.362 in.**
 sFlow **88 ksi**
 SMYS **80 ksi**
 Max Penetration in Joint **0.07 in.**
 Max Wall Loss in Joint **20 %**





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WDW-01

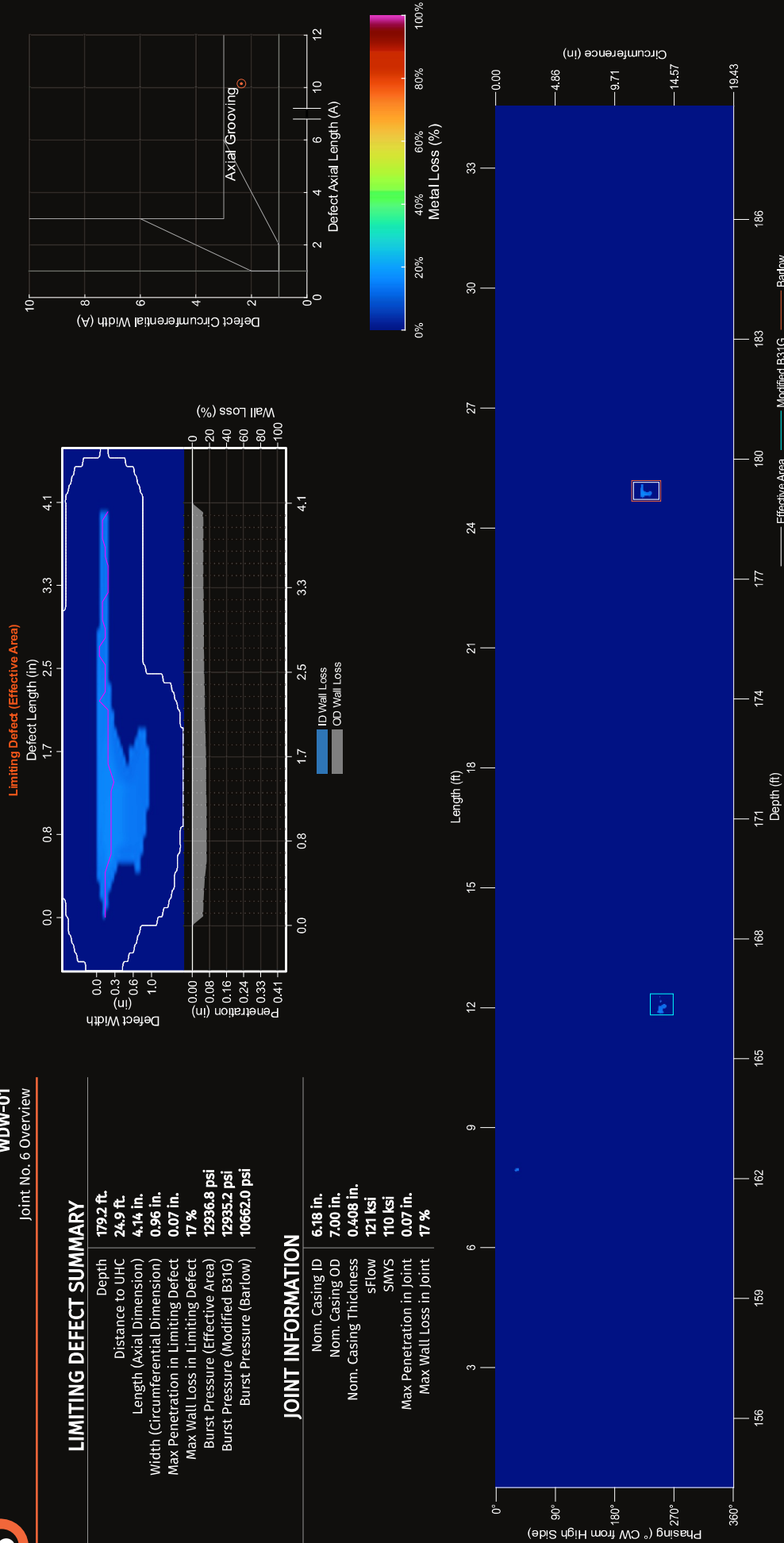
Joint No. 6 Overview

LIMITING DEFECT SUMMARY

Depth **179.2 ft.**
 Distance to UHC **24.9 ft.**
 Length (Axial Dimension) **4.14 in.**
 Width (Circumferential Dimension) **0.96 in.**
 Max Penetration in Limiting Defect **0.07 in.**
 Max Wall Loss in Limiting Defect **17 %**
 Burst Pressure (Effective Area) **12936.8 psi**
 Burst Pressure (Modified B31G) **12935.2 psi**
 Burst Pressure (Barlow) **10662.0 psi**

JOINT INFORMATION

Nom. Casing ID **6.18 in.**
 Nom. Casing OD **7.00 in.**
 Nom. Casing Thickness **0.408 in.**
 sFlow **121 ksi**
 SMYS **110 ksi**
 Max Penetration in Joint **0.07 in.**
 Max Wall Loss in Joint **17 %**





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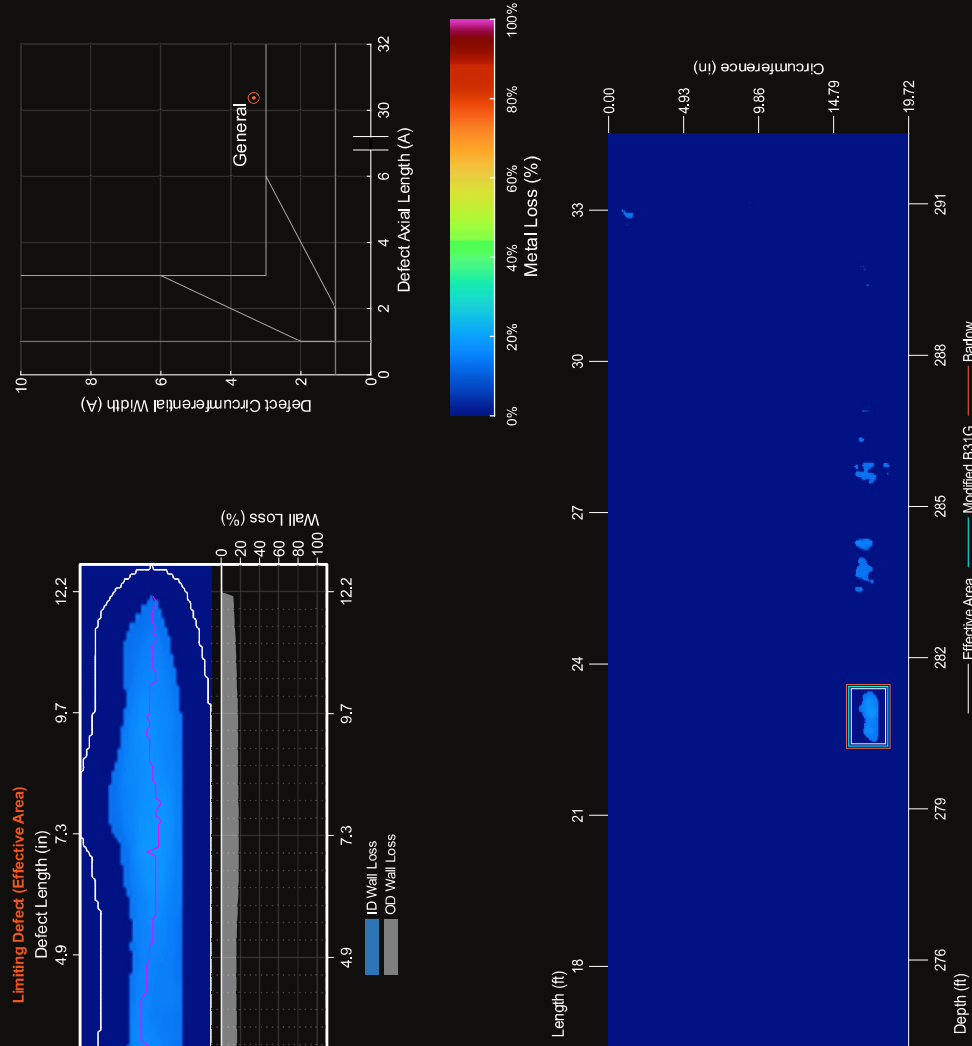
Joint No. 9 Overview

LIMITING DEFECT SUMMARY

Depth **280.8 ft.**
 Distance to UHC **23.0 ft.**
 Length (Axial Dimension) **12.15 in.**
 Width (Circumferential Dimension) **1.34 in.**
 Max Penetration in Limiting Defect **0.07 in.**
 Max Wall Loss in Limiting Defect **18 %**
 Burst Pressure (Effective Area) **7853.7 psi**
 Burst Pressure (Modified B31G) **7913.6 psi**
 Burst Pressure (Barlow) **6746.3 psi**

JOINT INFORMATION

Nom. Casing ID **6.28 in.**
 Nom. Casing OD **7.00 in.**
 Nom. Casing Thickness **0.362 in.**
 sFlow **88 ksi**
 SMYS **80 ksi**
 Max Penetration in Joint **0.07 in.**
 Max Wall Loss in Joint **18 %**





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WDW-01

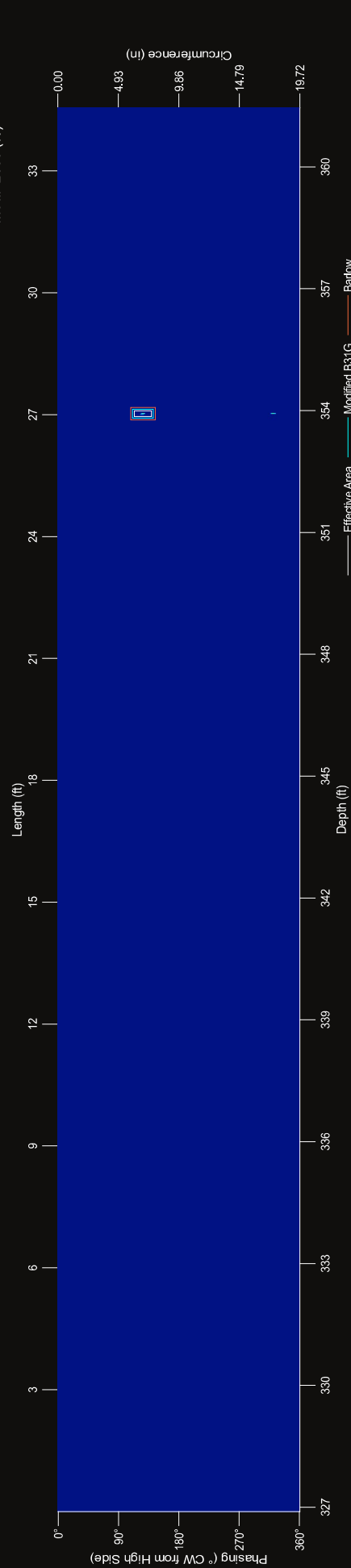
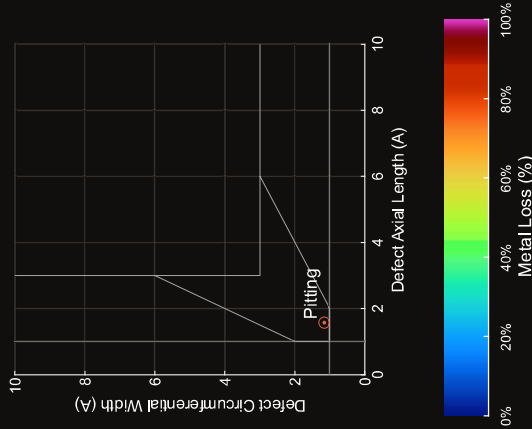
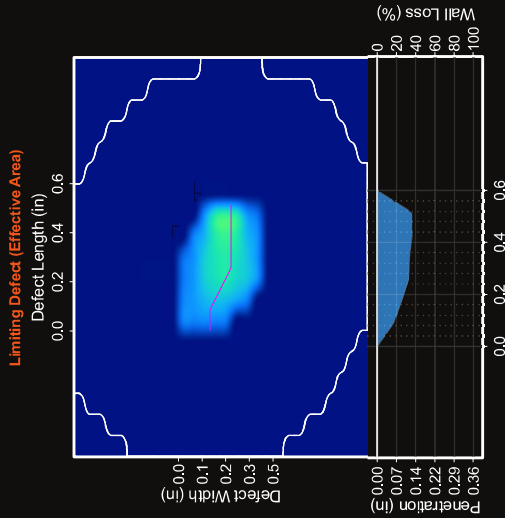
Joint No. 11 Overview

LIMITING DEFECT SUMMARY

Depth	353.9 ft.
Distance to UHC	27.0 ft.
Length (Axial Dimension)	0.63 in.
Width (Circumferential Dimension)	0.46 in.
Max Penetration in Limiting Defect	0.13 in.
Max Wall Loss in Limiting Defect	36 %
Burst Pressure (Effective Area)	8948.0 psi
Burst Pressure (Modified B31G)	8918.5 psi
Burst Pressure (Barlow)	5258.4 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.13 in.
Max Wall Loss in Joint	36 %





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WDW-01

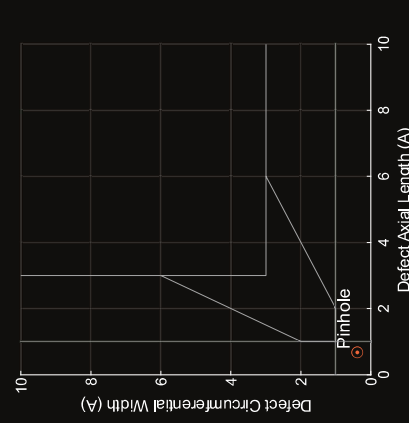
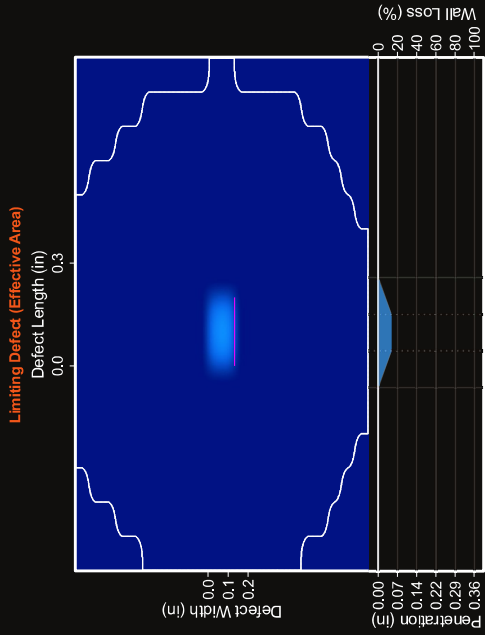
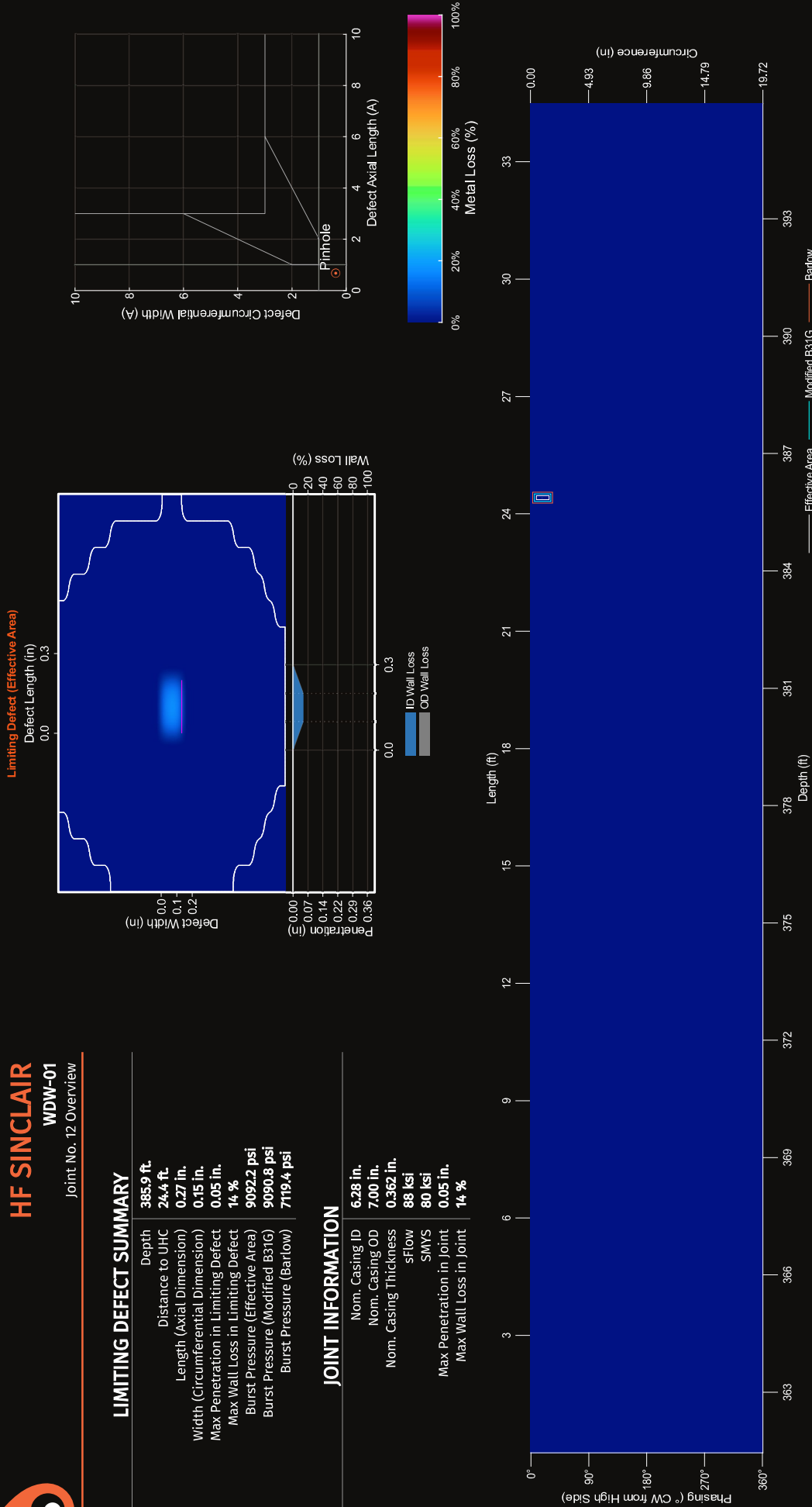
Joint No. 12 Overview

LIMITING DEFECT SUMMARY

Depth	385.9 ft.
Distance to UHC	24.4 ft.
Length (Axial Dimension)	0.27 in.
Width (Circumferential Dimension)	0.15 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	14 %
Burst Pressure (Effective Area)	9092.2 psi
Burst Pressure (Modified B31G)	9090.8 psi
Burst Pressure (Barlow)	7119.4 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	14 %





HF SINCLAIR
WDW-01

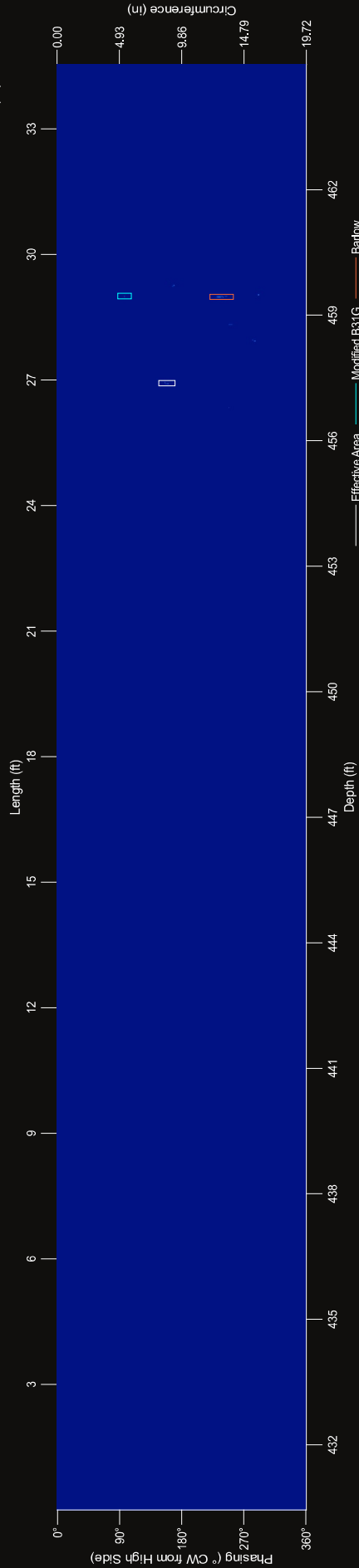
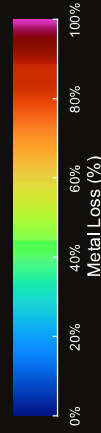
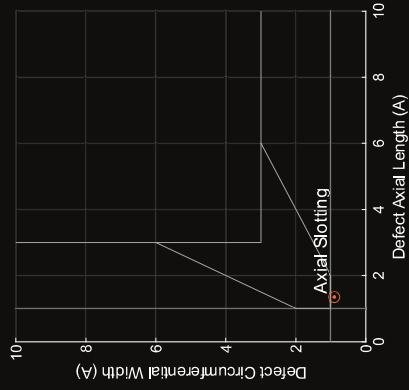
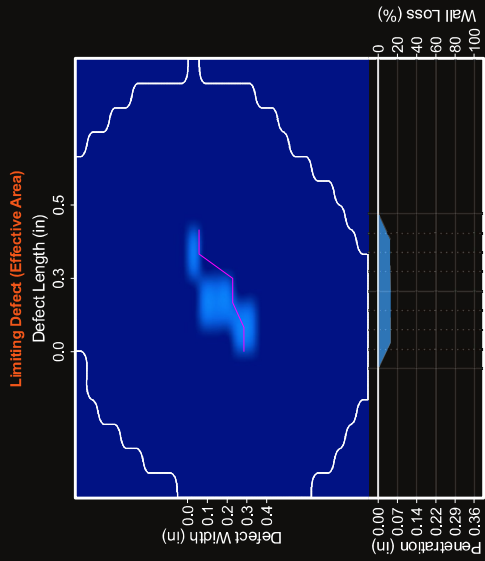
Joint No. 14 Overview

LIMITING DEFECT SUMMARY

Depth	457.4 ft.
Distance to UHC	26.9 ft.
Length (Axial Dimension)	0.54 in.
Width (Circumferential Dimension)	0.36 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	13 %
Burst Pressure (Effective Area)	9060.8 psi
Burst Pressure (Modified B31G)	9049.6 psi
Burst Pressure (Barlow)	7058.9 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	15 %





HF SINCLAIR

WDW-01

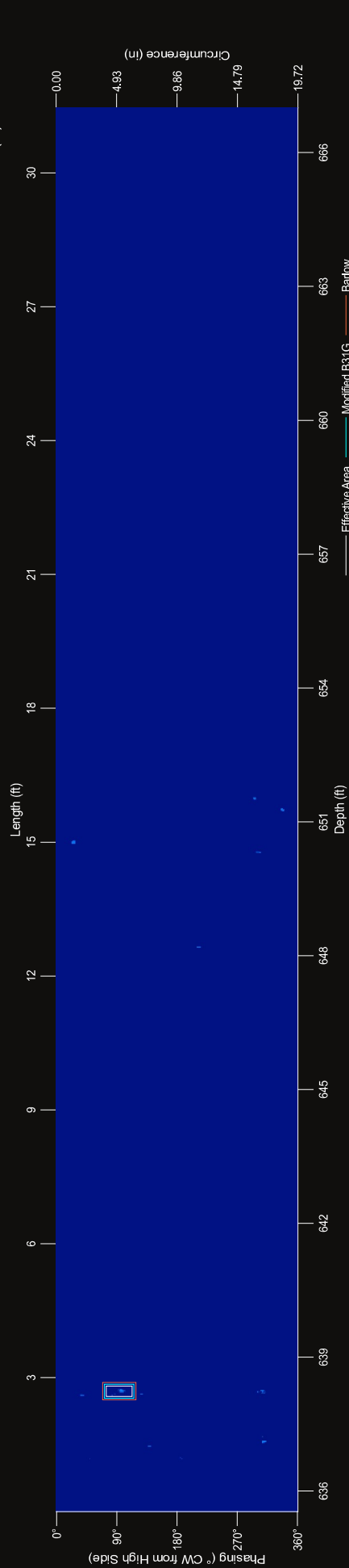
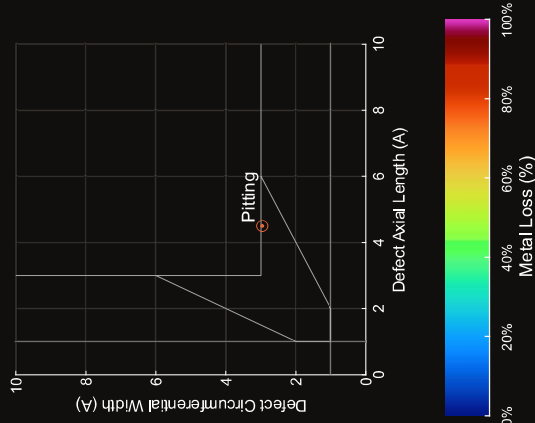
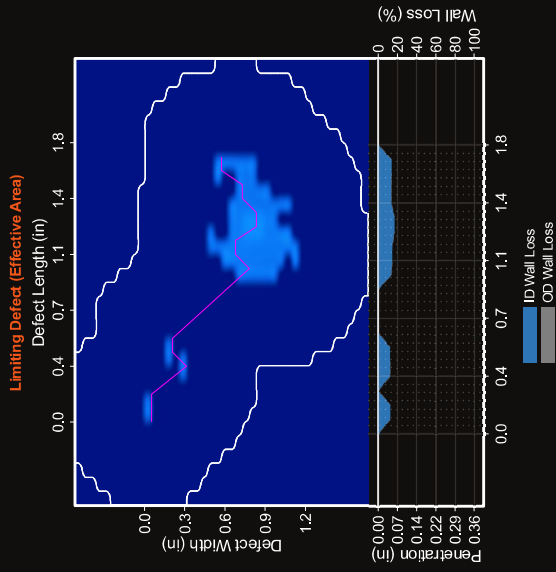
Joint No. 20 Overview

LIMITING DEFECT SUMMARY

Depth	638.2 ft.
Distance to UHC	2.7 ft.
Length (Axial Dimension)	1.80 in.
Width (Circumferential Dimension)	1.18 in.
Max Penetration in Limiting Defect	0.06 in.
Max Wall Loss in Limiting Defect	17 %
Burst Pressure (Effective Area)	8854.0 psi
Burst Pressure (Modified B31G)	8724.8 psi
Burst Pressure (Barlow)	6859.3 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.06 in.
Max Wall Loss in Joint	17 %





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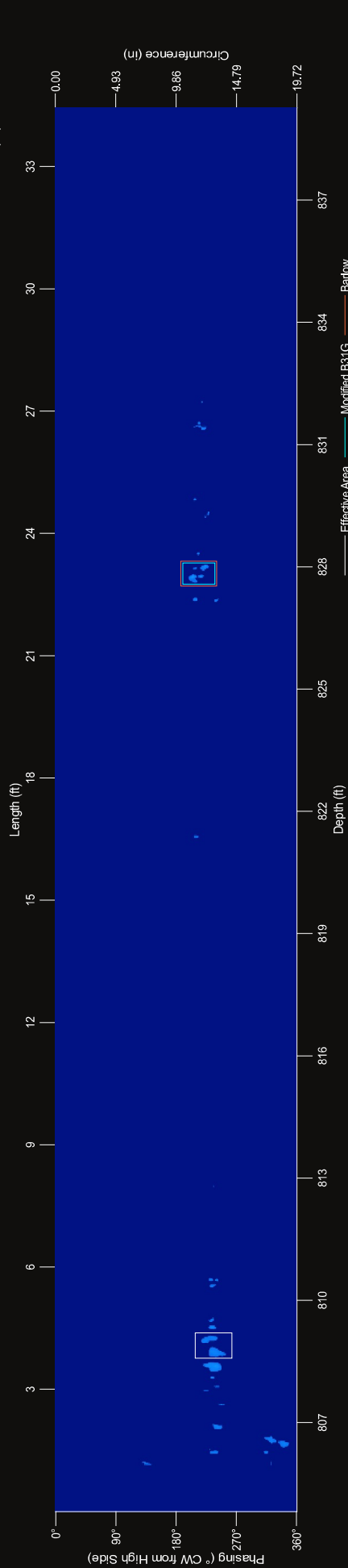
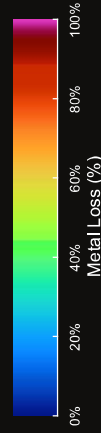
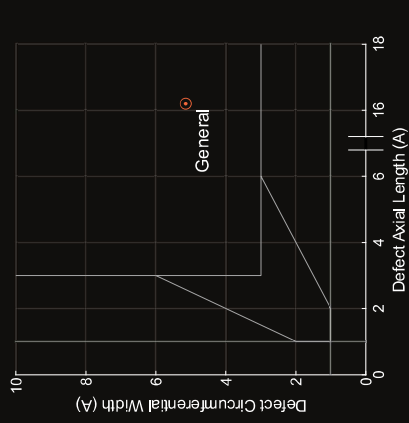
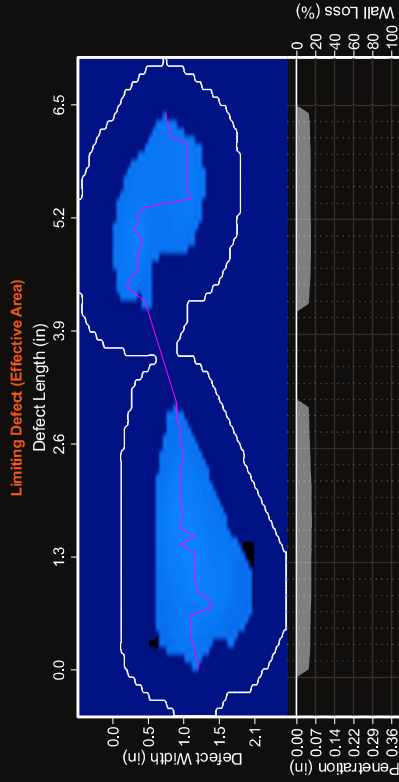
Joint No. 25 Overview

LIMITING DEFECT SUMMARY

Depth **808.9 ft.**
 Distance to UHC **4.1 ft.**
 Length (Axial Dimension) **6.48 in.**
 Width (Circumferential Dimension) **2.06 in.**
 Max Penetration in Limiting Defect **0.06 in.**
 Max Wall Loss in Limiting Defect **16 %**
 Burst Pressure (Effective Area) **8324.3 psi**
 Burst Pressure (Modified B31G) **8142.5 psi**
 Burst Pressure (Barlow) **6753.8 psi**

JOINT INFORMATION

Nom. Casing ID **6.28 in.**
 Nom. Casing OD **7.00 in.**
 Nom. Casing Thickness **0.362 in.**
 sFlow **88 ksi**
 SMYS **80 ksi**
 Max Penetration in Joint **0.07 in.**
 Max Wall Loss in Joint **18 %**





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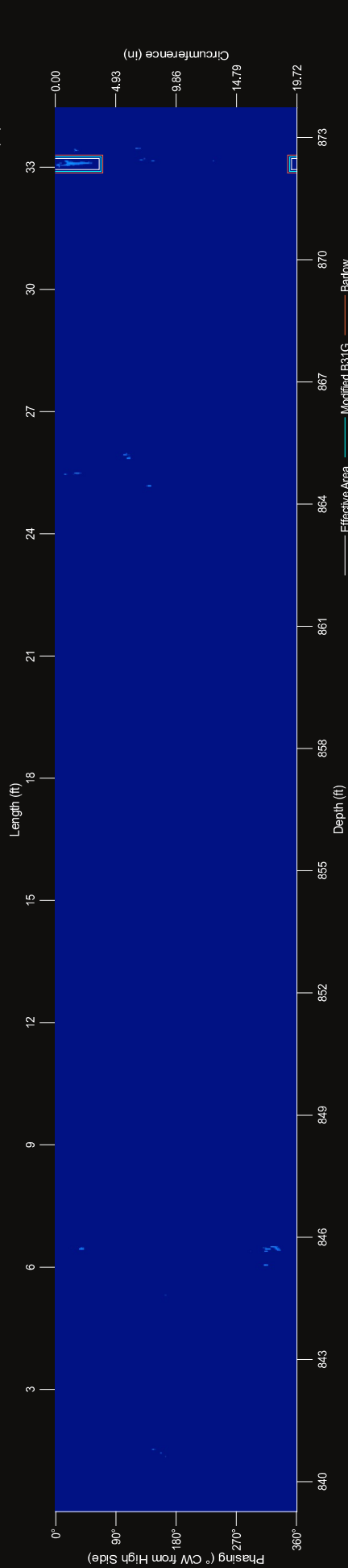
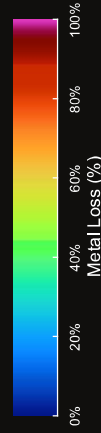
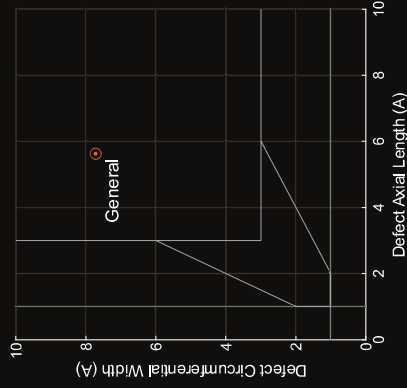
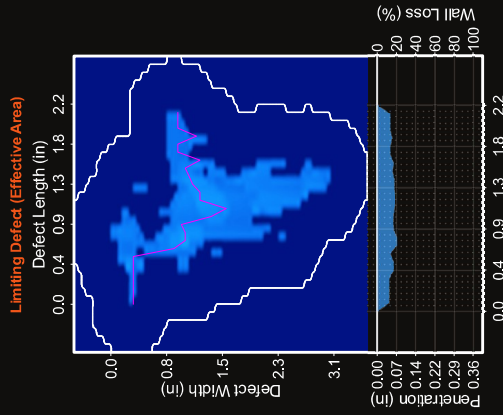
Joint No. 26 Overview

LIMITING DEFECT SUMMARY

Depth	872.3 ft.
Distance to UHC	33.1 ft.
Length (Axial Dimension)	2.25 in.
Width (Circumferential Dimension)	3.09 in.
Max Penetration in Limiting Defect	0.07 in.
Max Wall Loss in Limiting Defect	20 %
Burst Pressure (Effective Area)	8572.9 psi
Burst Pressure (Modified B31G)	8510.5 psi
Burst Pressure (Barlow)	6589.3 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.07 in.
Max Wall Loss in Joint	20 %





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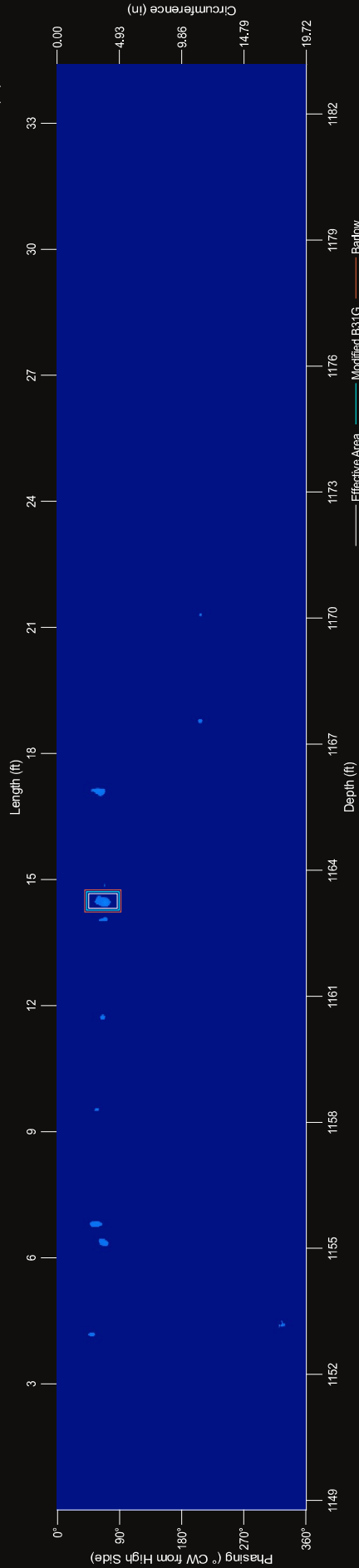
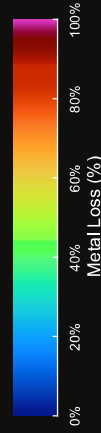
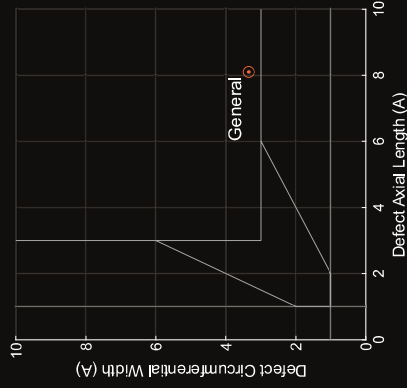
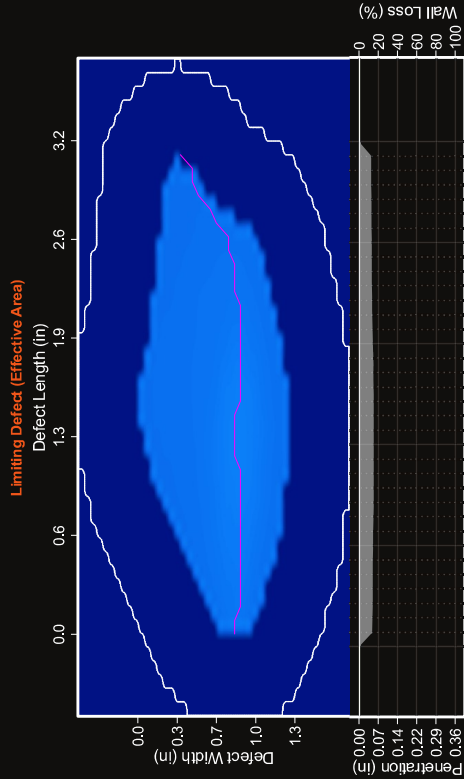
Joint No. 35 Overview

LIMITING DEFECT SUMMARY

Depth	1163.3 ft.
Distance to UHC	14.5 ft.
Length (Axial Dimension)	3.24 in.
Width (Circumferential Dimension)	1.34 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	15 %
Burst Pressure (Effective Area)	8462.1 psi
Burst Pressure (Modified B31G)	8511.8 psi
Burst Pressure (Barlow)	7020.2 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	15 %





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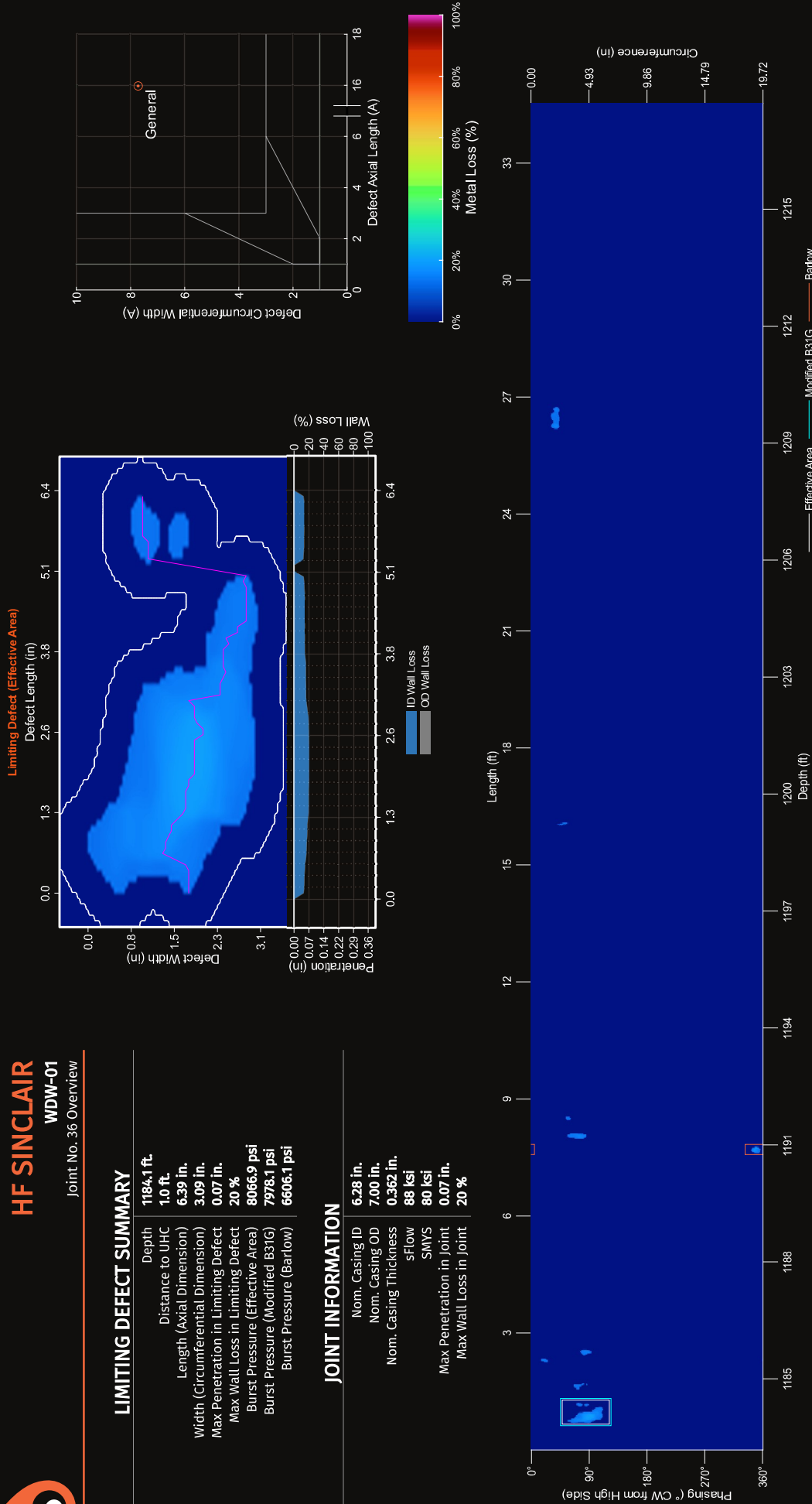
Joint No. 36 Overview

LIMITING DEFECT SUMMARY

Depth **1184.1 ft.**
 Distance to UHC **1.0 ft.**
 Length (Axial Dimension) **6.39 in.**
 Width (Circumferential Dimension) **3.09 in.**
 Max Penetration in Limiting Defect **0.07 in.**
 Max Wall Loss in Limiting Defect **20 %**
 Burst Pressure (Effective Area) **8066.9 psi**
 Burst Pressure (Modified B31G) **7978.1 psi**
 Burst Pressure (Barlow) **6606.1 psi**

JOINT INFORMATION

Nom. Casing ID **6.28 in.**
 Nom. Casing OD **7.00 in.**
 Nom. Casing Thickness **0.362 in.**
 sFlow **88 ksi**
 SMYS **80 ksi**
 Max Penetration in Joint **0.07 in.**
 Max Wall Loss in Joint **20 %**





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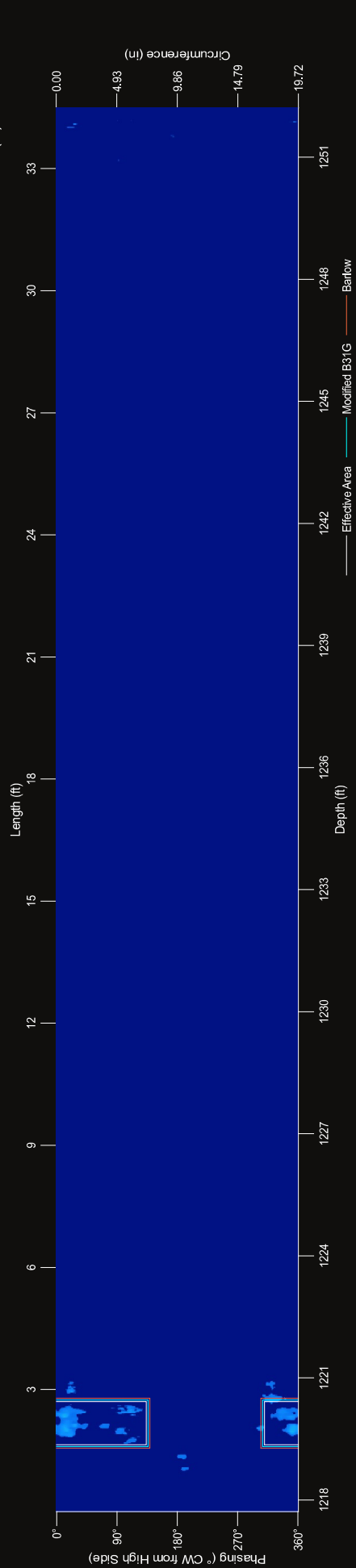
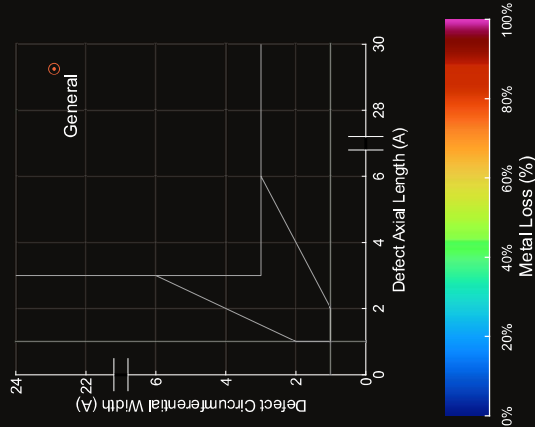
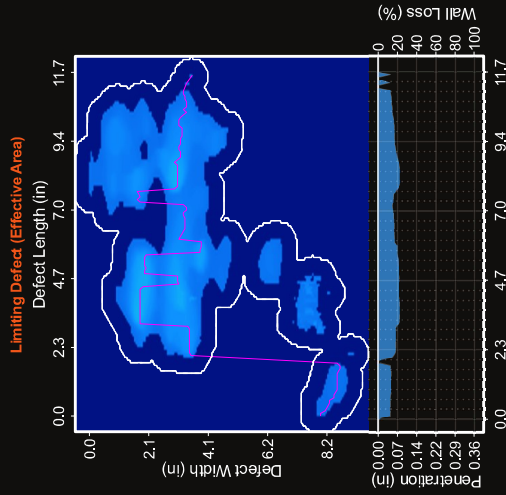
Joint No. 37 Overview

LIMITING DEFECT SUMMARY

Depth	1219.9 ft.
Distance to UHC	2.2 ft.
Length (Axial Dimension)	11.70 in.
Width (Circumferential Dimension)	9.16 in.
Max Penetration in Limiting Defect	0.08 in.
Max Wall Loss in Limiting Defect	23 %
Burst Pressure (Effective Area)	7832.8 psi
Burst Pressure (Modified B31G)	7650.5 psi
Burst Pressure (Barlow)	6410.7 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.08 in.
Max Wall Loss in Joint	23 %





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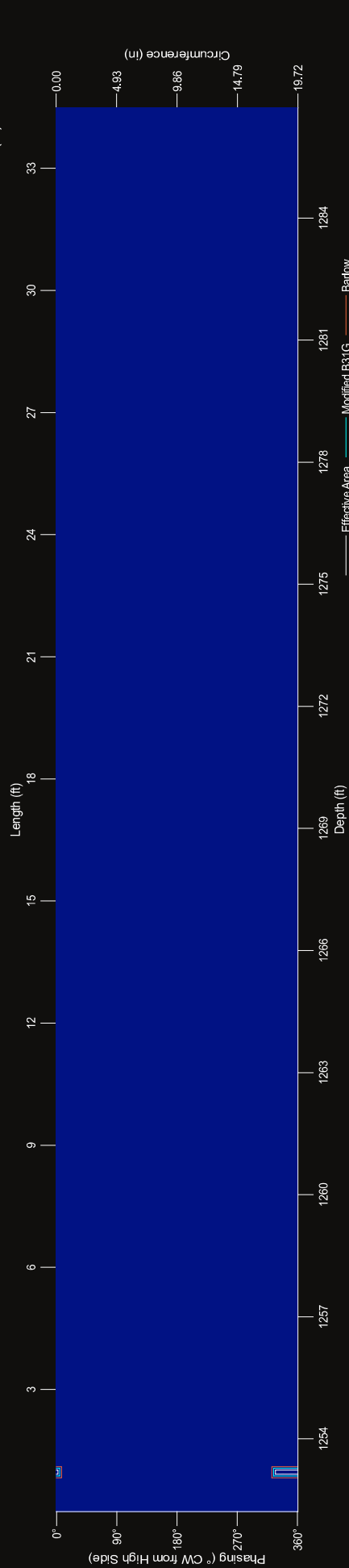
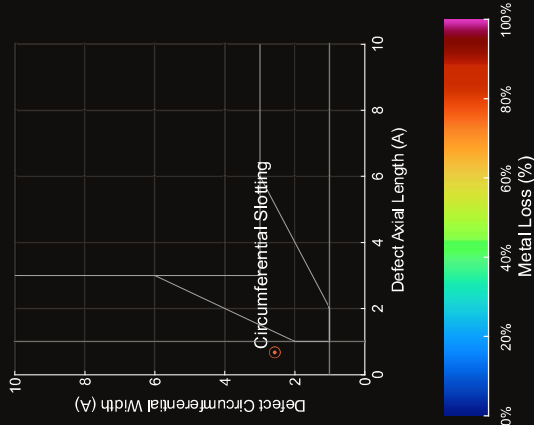
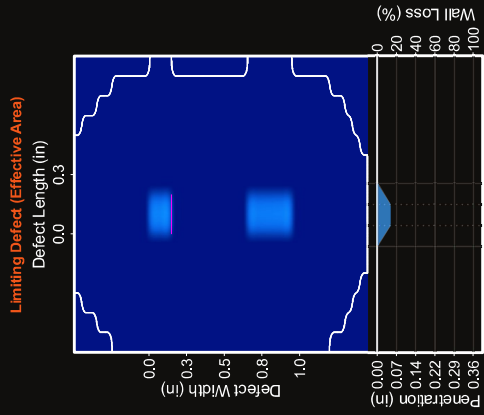
Joint No. 38 Overview

LIMITING DEFECT SUMMARY

Depth	1253.2 ft.
Distance to UHC	1.0 ft.
Length (Axial Dimension)	0.27 in.
Width (Circumferential Dimension)	1.03 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	14 %
Burst Pressure (Effective Area)	9092.2 psi
Burst Pressure (Modified B31G)	9090.8 psi
Burst Pressure (Barlow)	7117.6 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	14 %





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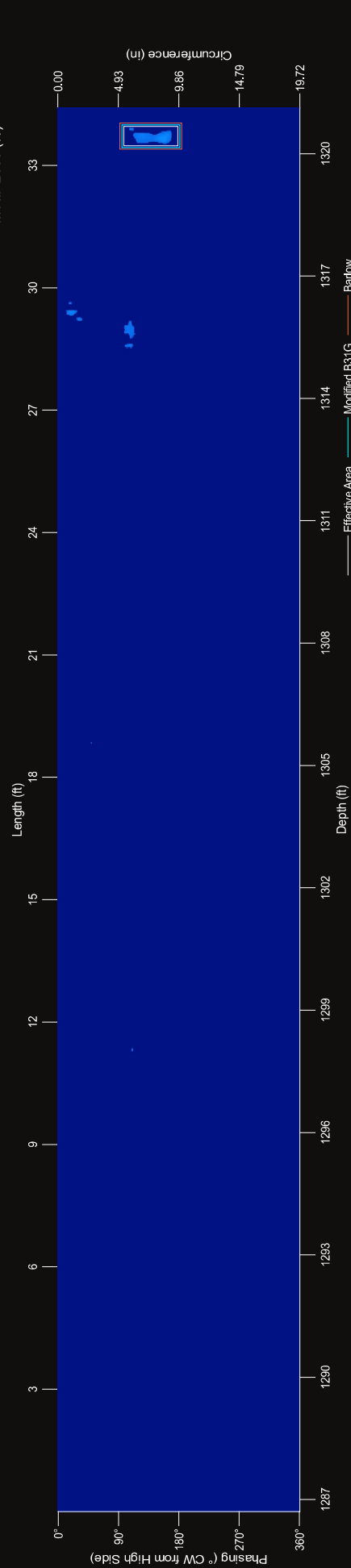
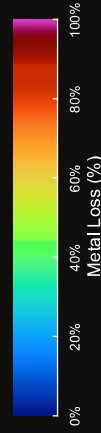
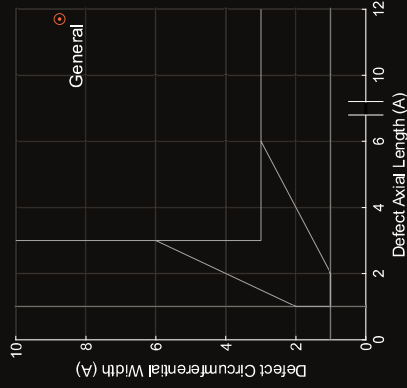
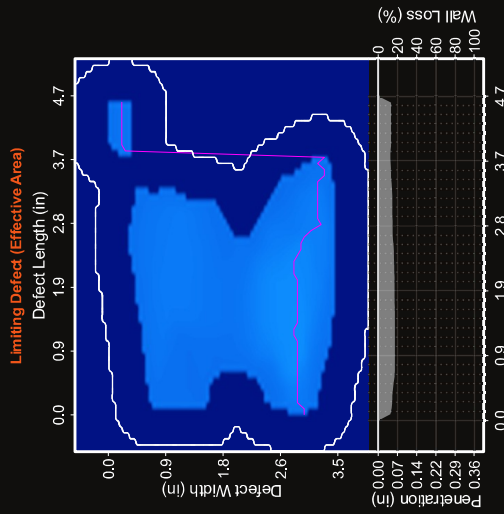
Joint No. 39 Overview

LIMITING DEFECT SUMMARY

Depth	1320.4 ft
Distance to UHC	33.7 ft
Length (Axial Dimension)	4.68 in.
Width (Circumferential Dimension)	3.50 in.
Max Penetration in Limiting Defect	0.06 in.
Max Wall Loss in Limiting Defect	17 %
Burst Pressure (Effective Area)	8214.5 psi
Burst Pressure (Modified B31G)	8242.1 psi
Burst Pressure (Barlow)	6827.6 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.06 in.
Max Wall Loss in Joint	17 %





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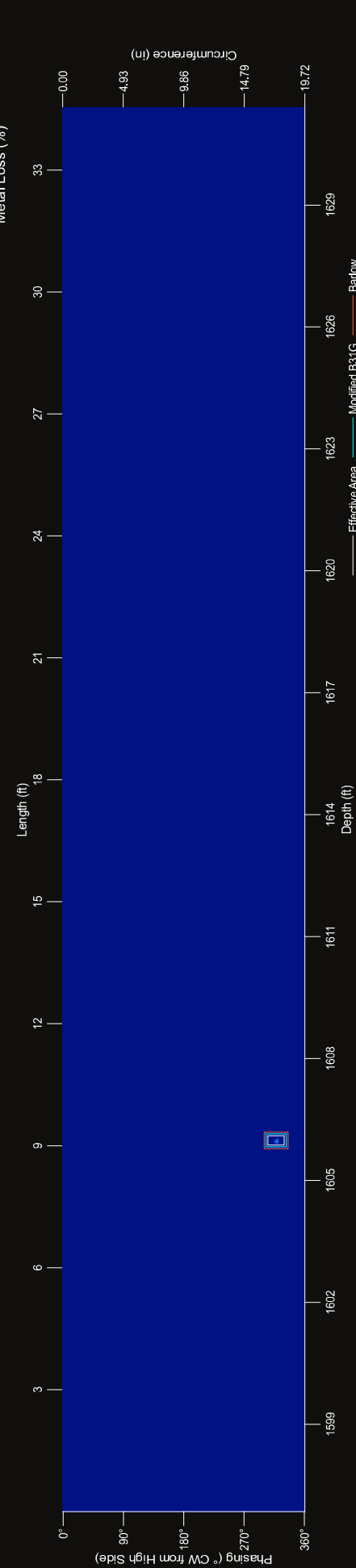
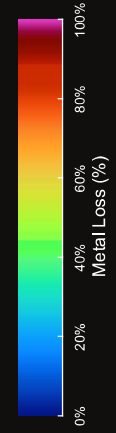
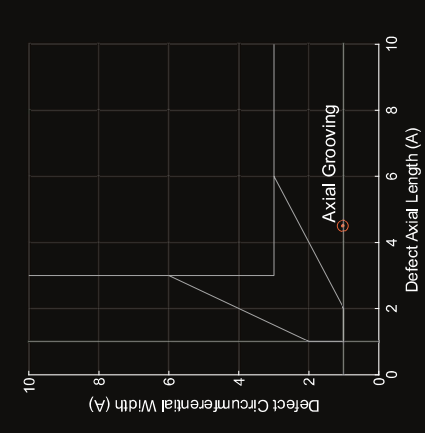
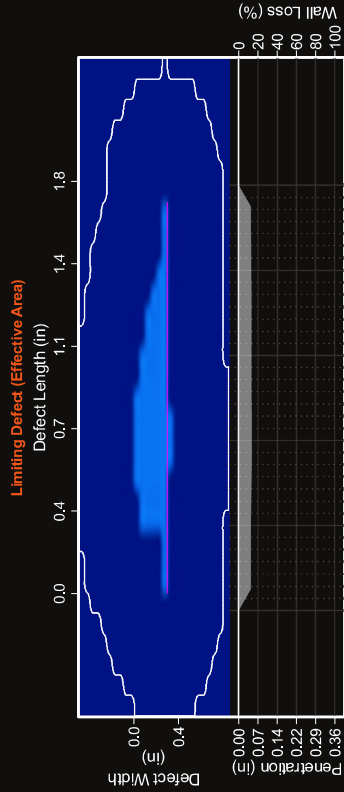
Joint No. 48 Overview

LIMITING DEFECT SUMMARY

Depth	1606.0 ft.
Distance to UHC	9.1 ft.
Length (Axial Dimension)	1.80 in.
Width (Circumferential Dimension)	0.41 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	14 %
Burst Pressure (Effective Area)	8774.8 psi
Burst Pressure (Modified B31G)	8810.1 psi
Burst Pressure (Barlow)	7151.9 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	14 %





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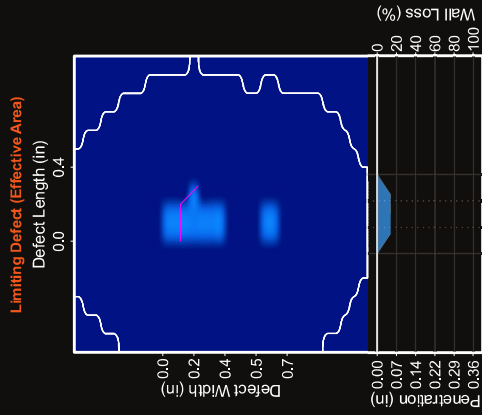
Joint No. 55 Overview

LIMITING DEFECT SUMMARY

Depth	1868.0 ft
Distance to UHC	29.8 ft
Length (Axial Dimension)	0.36 in.
Width (Circumferential Dimension)	0.72 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	14 %
Burst Pressure (Effective Area)	9082.9 psi
Burst Pressure (Modified B31G)	9082.5 psi
Burst Pressure (Barlow)	7117.1 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	14 %



Limiting Defect (Effective Area)

Defect Length (in)

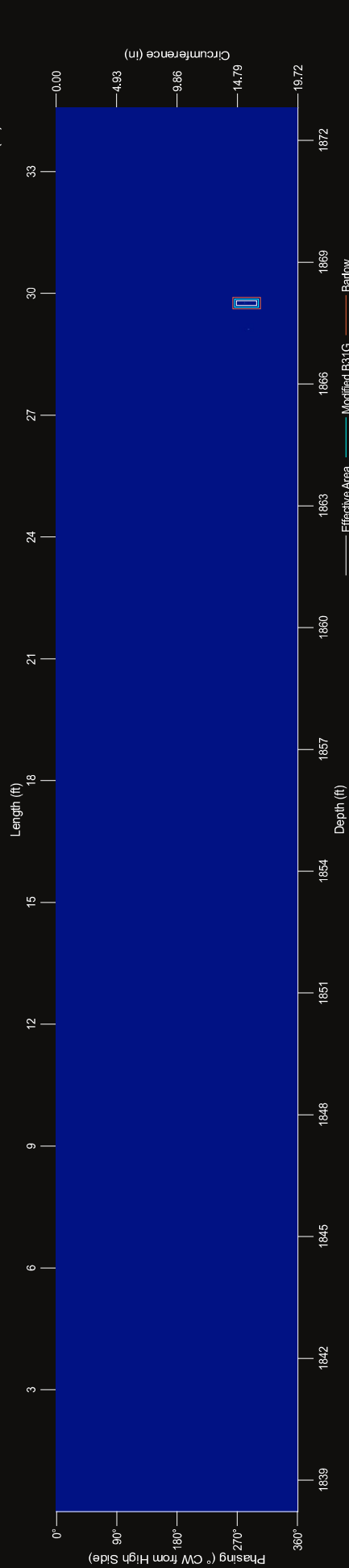
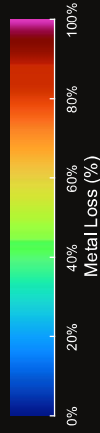
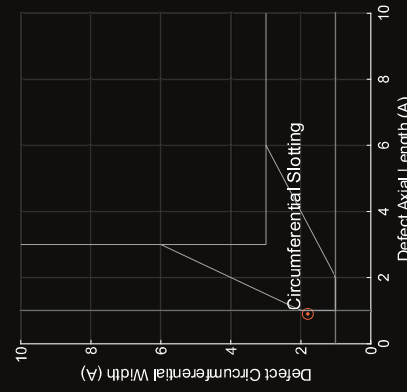
Defect Width (in)

Penetration (in)

Wall Loss (%)

ID Wall Loss

OD Wall Loss



Effective Area Modified B31G Barlow



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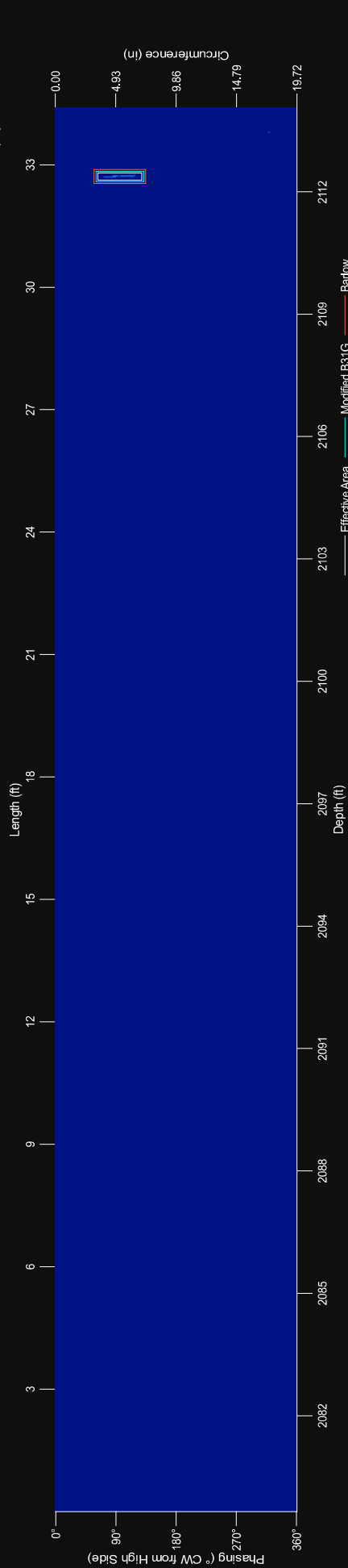
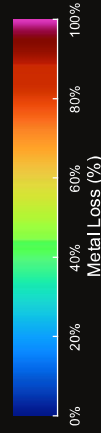
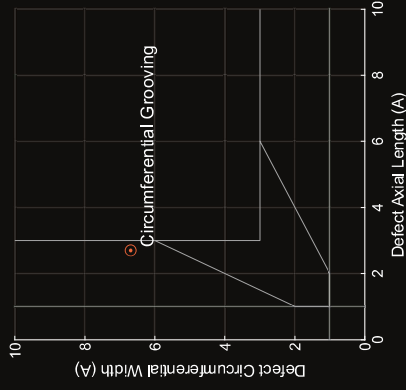
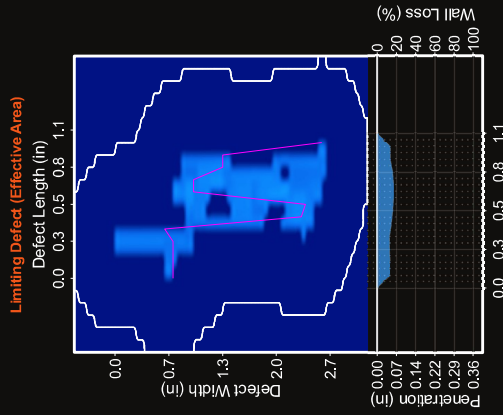
Joint No. 62 Overview

LIMITING DEFECT SUMMARY

Depth	2112.4 ft.
Distance to UHC	32.7 ft.
Length (Axial Dimension)	1.08 in.
Width (Circumferential Dimension)	2.68 in.
Max Penetration in Limiting Defect	0.06 in.
Max Wall Loss in Limiting Defect	17 %
Burst Pressure (Effective Area)	8925.9 psi
Burst Pressure (Modified B31G)	8917.5 psi
Burst Pressure (Barlow)	6833.4 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.06 in.
Max Wall Loss in Joint	17 %





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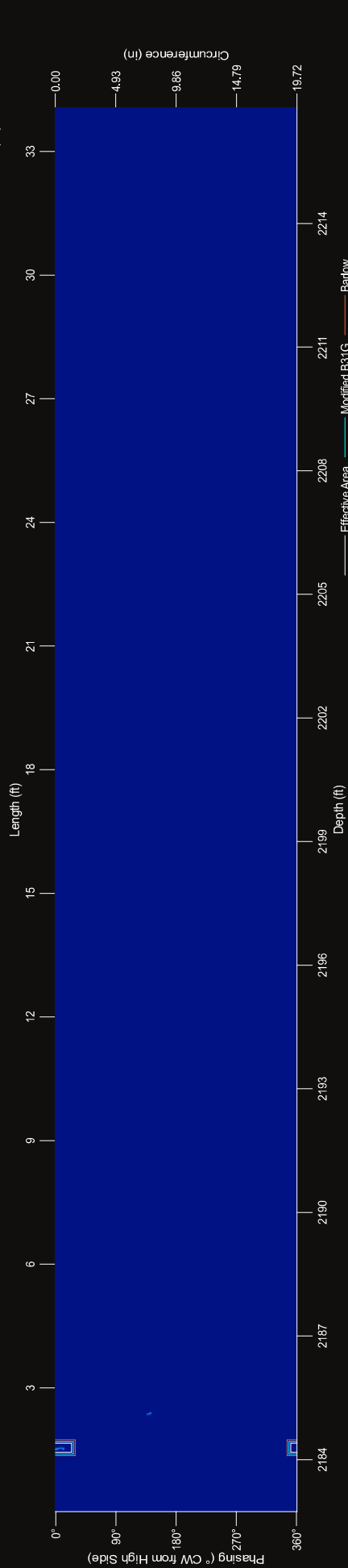
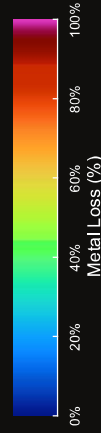
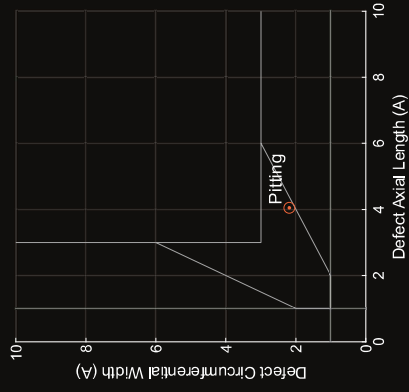
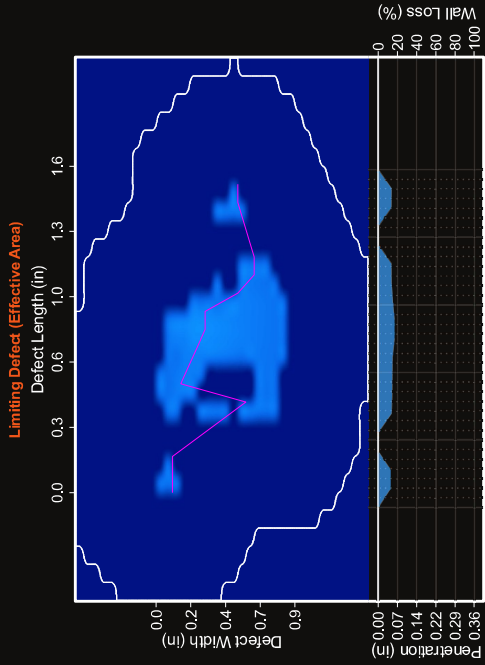
Joint No. 65 Overview

LIMITING DEFECT SUMMARY

Depth	2184.3 ft.
Distance to UHC	1.5 ft.
Length (Axial Dimension)	1.62 in.
Width (Circumferential Dimension)	0.88 in.
Max Penetration in Limiting Defect	0.06 in.
Max Wall Loss in Limiting Defect	17 %
Burst Pressure (Effective Area)	8865.3 psi
Burst Pressure (Modified B31G)	8768.9 psi
Burst Pressure (Barlow)	6845.6 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.06 in.
Max Wall Loss in Joint	17 %





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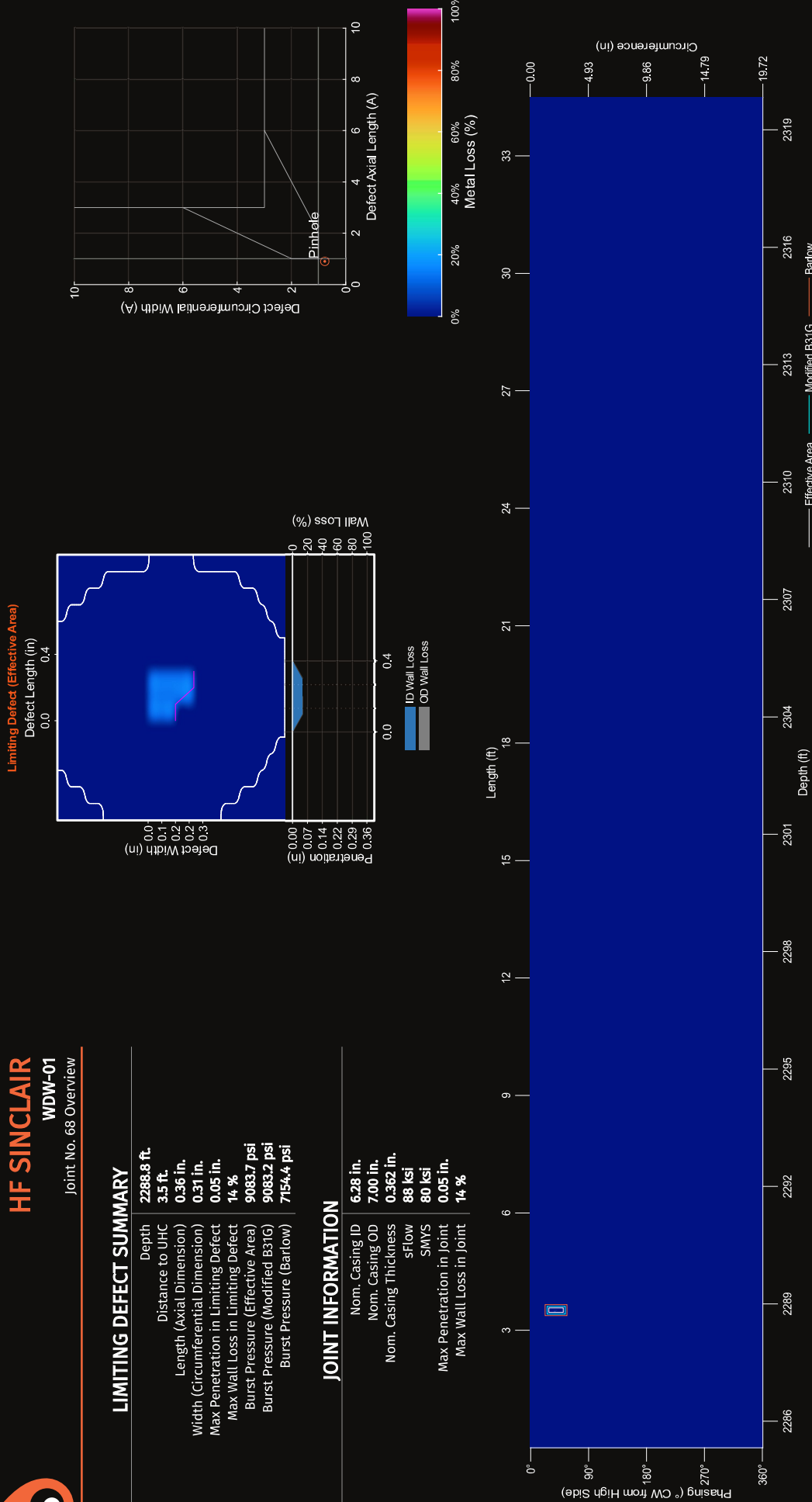
Joint No. 68 Overview

LIMITING DEFECT SUMMARY

Depth	2288.8 ft.
Distance to UHC	3.5 ft.
Length (Axial Dimension)	0.36 in.
Width (Circumferential Dimension)	0.31 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	14 %
Burst Pressure (Effective Area)	9083.7 psi
Burst Pressure (Modified B31G)	9083.2 psi
Burst Pressure (Barlow)	7154.4 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	14 %





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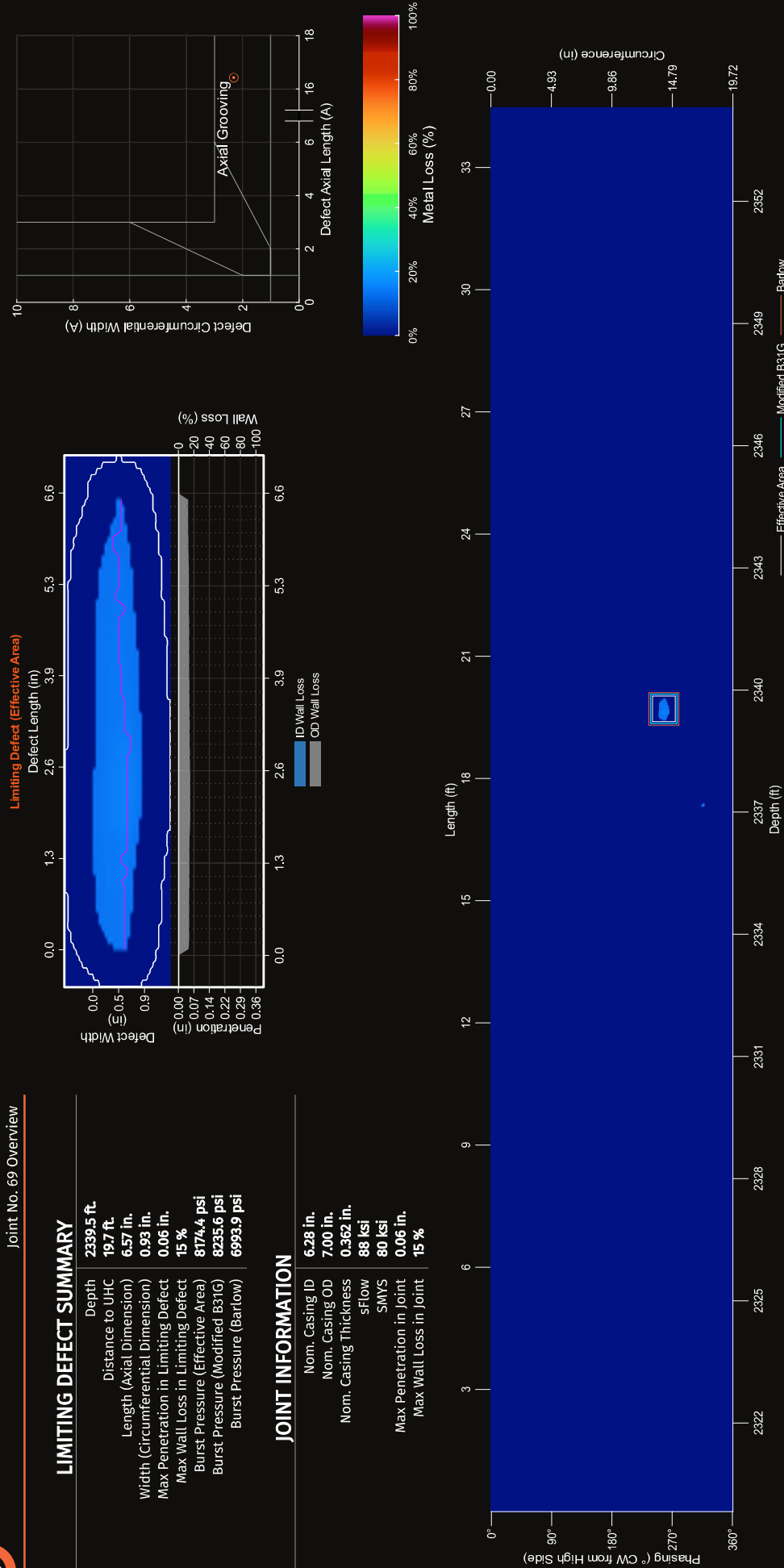
Joint No. 69 Overview

LIMITING DEFECT SUMMARY

Depth	2339.5 ft.
Distance to UHC	19.7 ft.
Length (Axial Dimension)	6.57 in.
Width (Circumferential Dimension)	0.93 in.
Max Penetration in Limiting Defect	0.06 in.
Max Wall Loss in Limiting Defect	15 %
Burst Pressure (Effective Area)	8174.4 psi
Burst Pressure (Modified B31G)	8235.6 psi
Burst Pressure (Barlow)	6993.9 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.06 in.
Max Wall Loss in Joint	15 %





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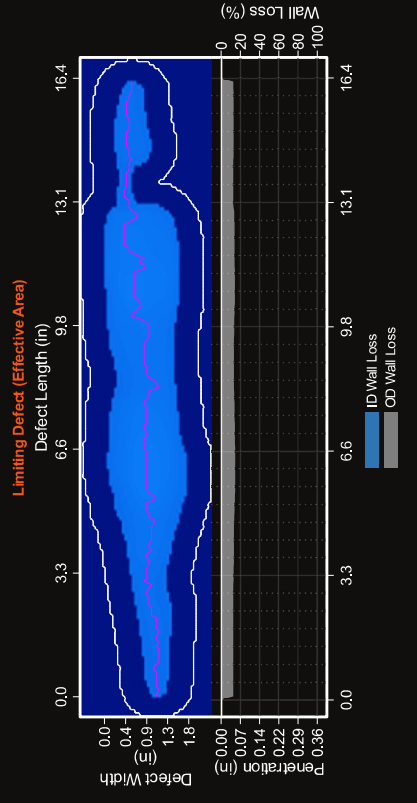
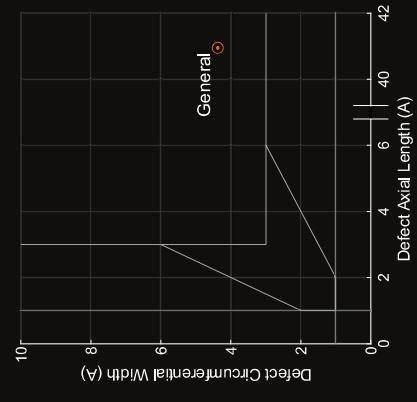
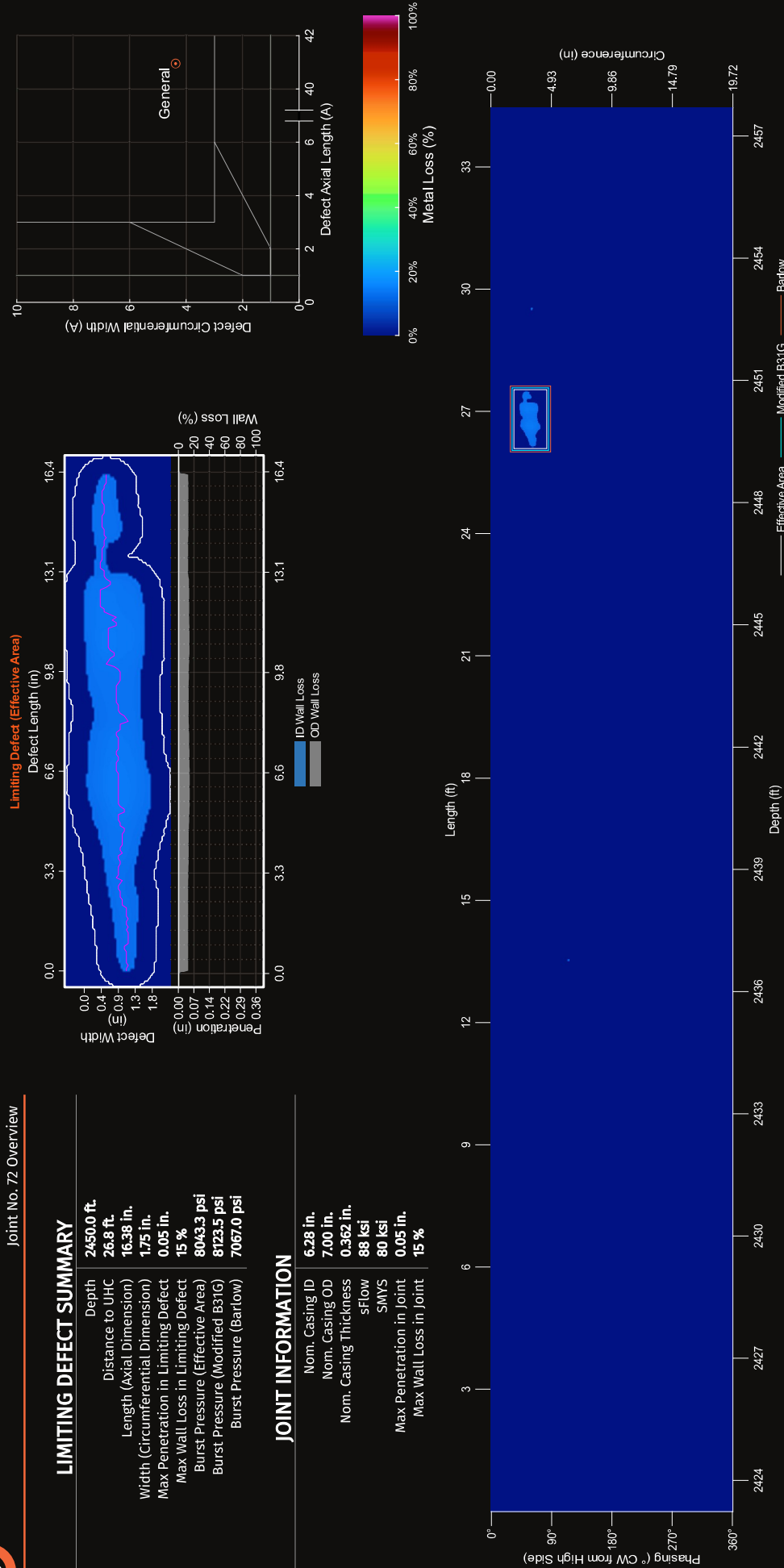
Joint No. 72 Overview

LIMITING DEFECT SUMMARY

Depth	2450.0 ft.
Distance to UHC	26.8 ft.
Length (Axial Dimension)	16.38 in.
Width (Circumferential Dimension)	1.75 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	15 %
Burst Pressure (Effective Area)	8043.3 psi
Burst Pressure (Modified B31G)	8123.5 psi
Burst Pressure (Barlow)	7067.0 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	15 %





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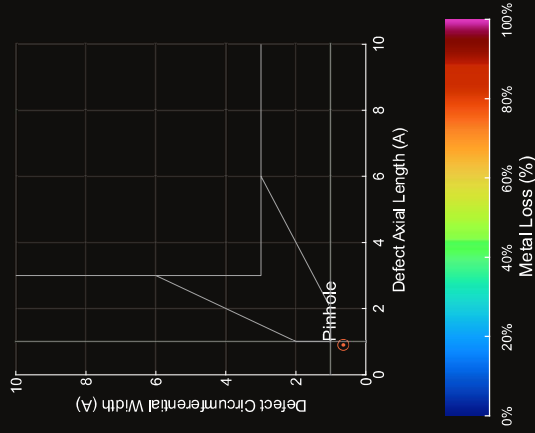
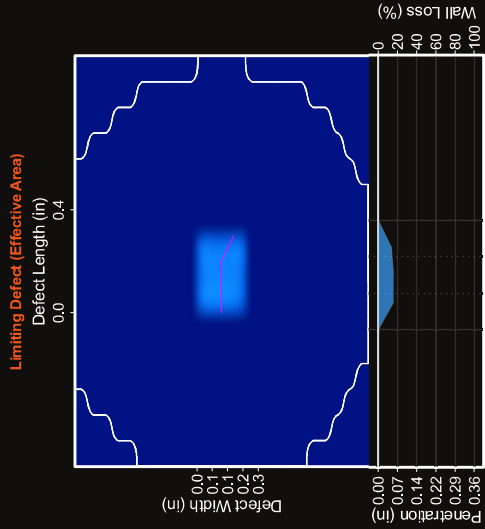
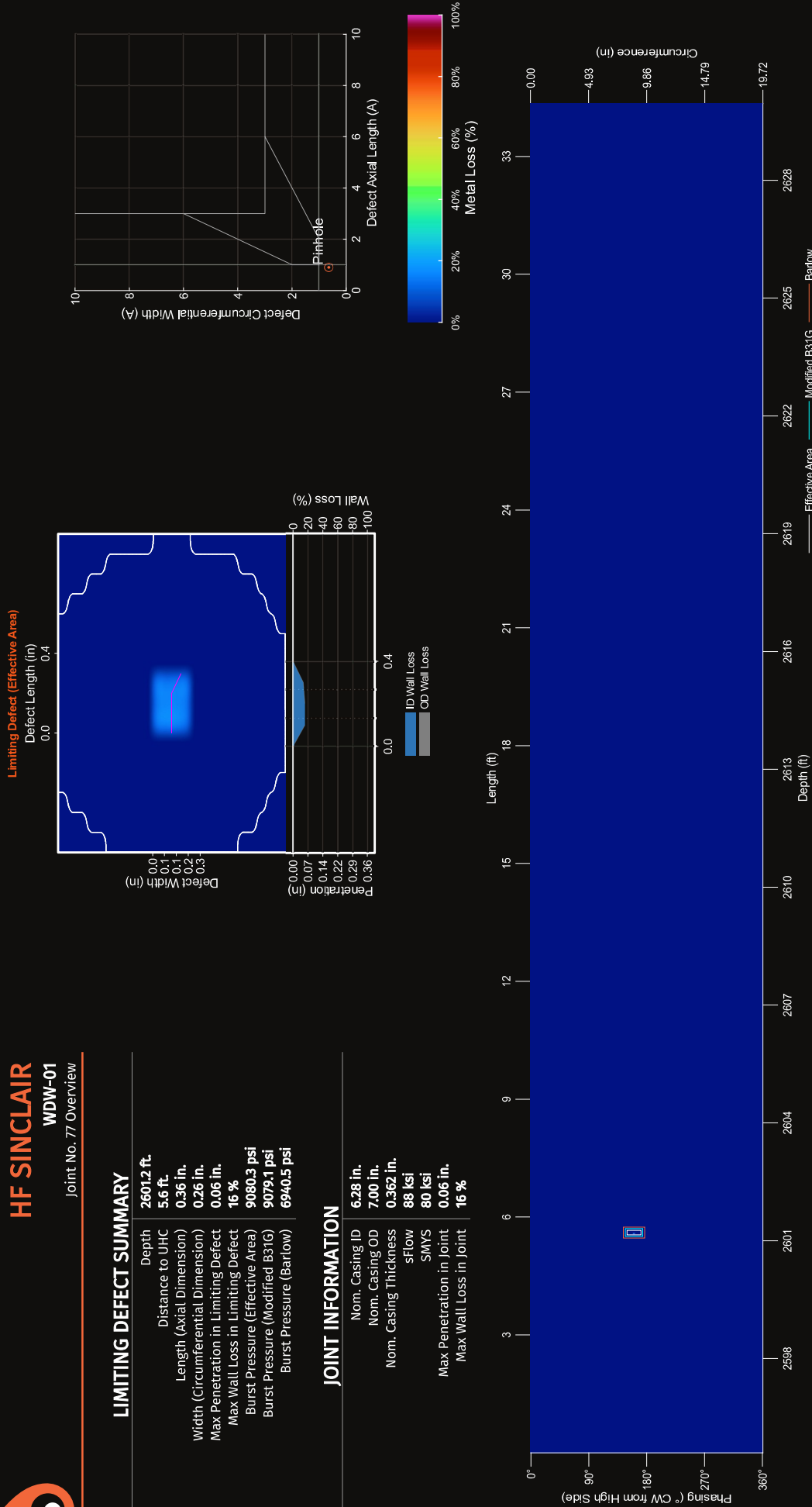
Joint No. 77 Overview

LIMITING DEFECT SUMMARY

Depth	2601.2 ft.
Distance to UHC	5.6 ft.
Length (Axial Dimension)	0.36 in.
Width (Circumferential Dimension)	0.26 in.
Max Penetration in Limiting Defect	0.06 in.
Max Wall Loss in Limiting Defect	16 %
Burst Pressure (Effective Area)	9080.3 psi
Burst Pressure (Modified B31G)	9079.1 psi
Burst Pressure (Barlow)	6940.5 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.06 in.
Max Wall Loss in Joint	16 %





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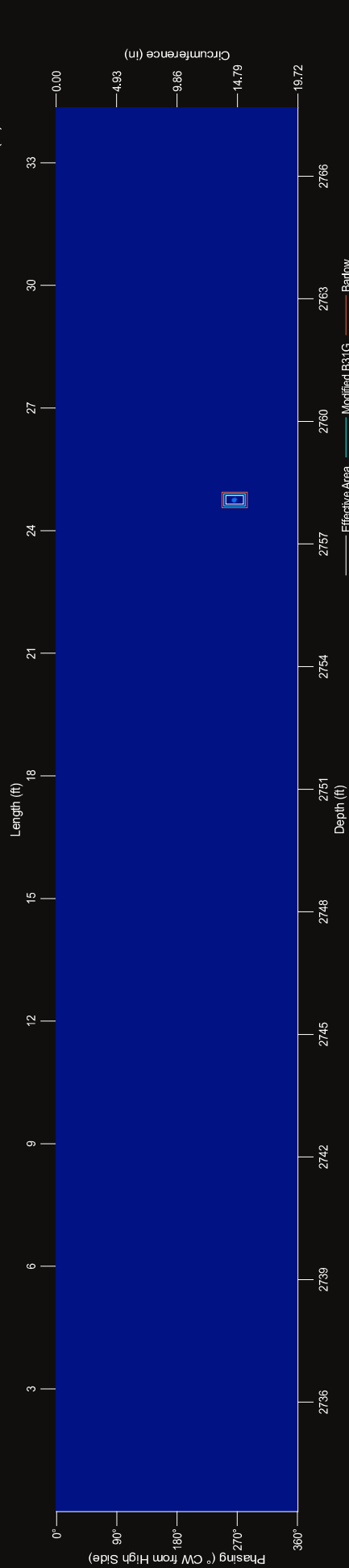
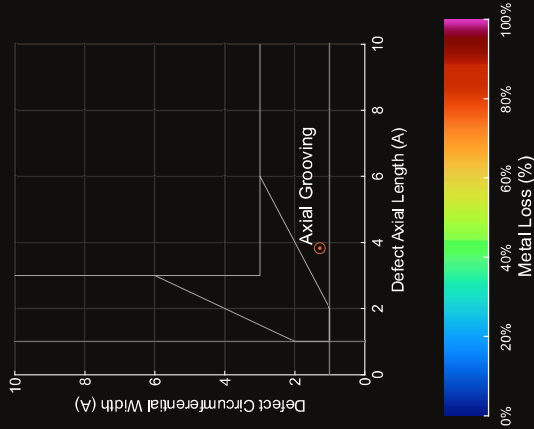
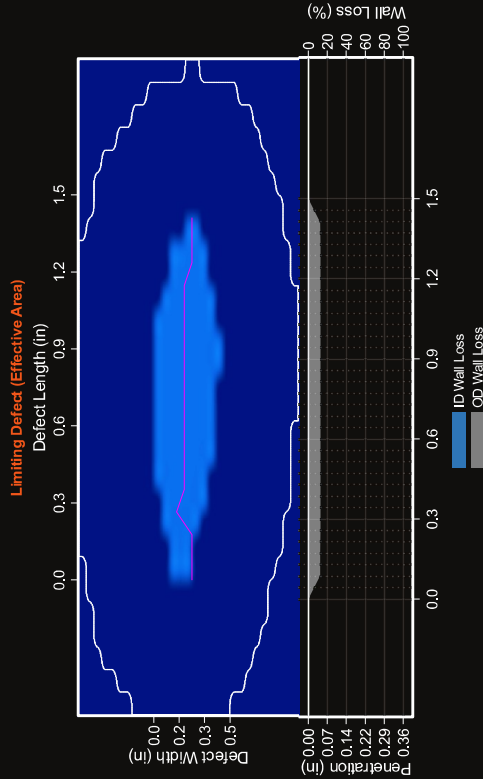
Joint No. 81 Overview

LIMITING DEFECT SUMMARY

Depth **2758.1 ft.**
 Distance to UHC **24.8 ft.**
 Length (Axial Dimension) **1.53 in.**
 Width (Circumferential Dimension) **0.51 in.**
 Max Penetration in Limiting Defect **0.05 in.**
 Max Wall Loss in Limiting Defect **13 %**
 Burst Pressure (Effective Area) **8845.8 psi**
 Burst Pressure (Modified B31G) **8877.8 psi**
 Burst Pressure (Barlow) **7201.3 psi**

JOINT INFORMATION

Nom. Casing ID **6.28 in.**
 Nom. Casing OD **7.00 in.**
 Nom. Casing Thickness **0.362 in.**
 sFlow **88 ksi**
 SMYS **80 ksi**
 Max Penetration in Joint **0.05 in.**
 Max Wall Loss in Joint **13 %**





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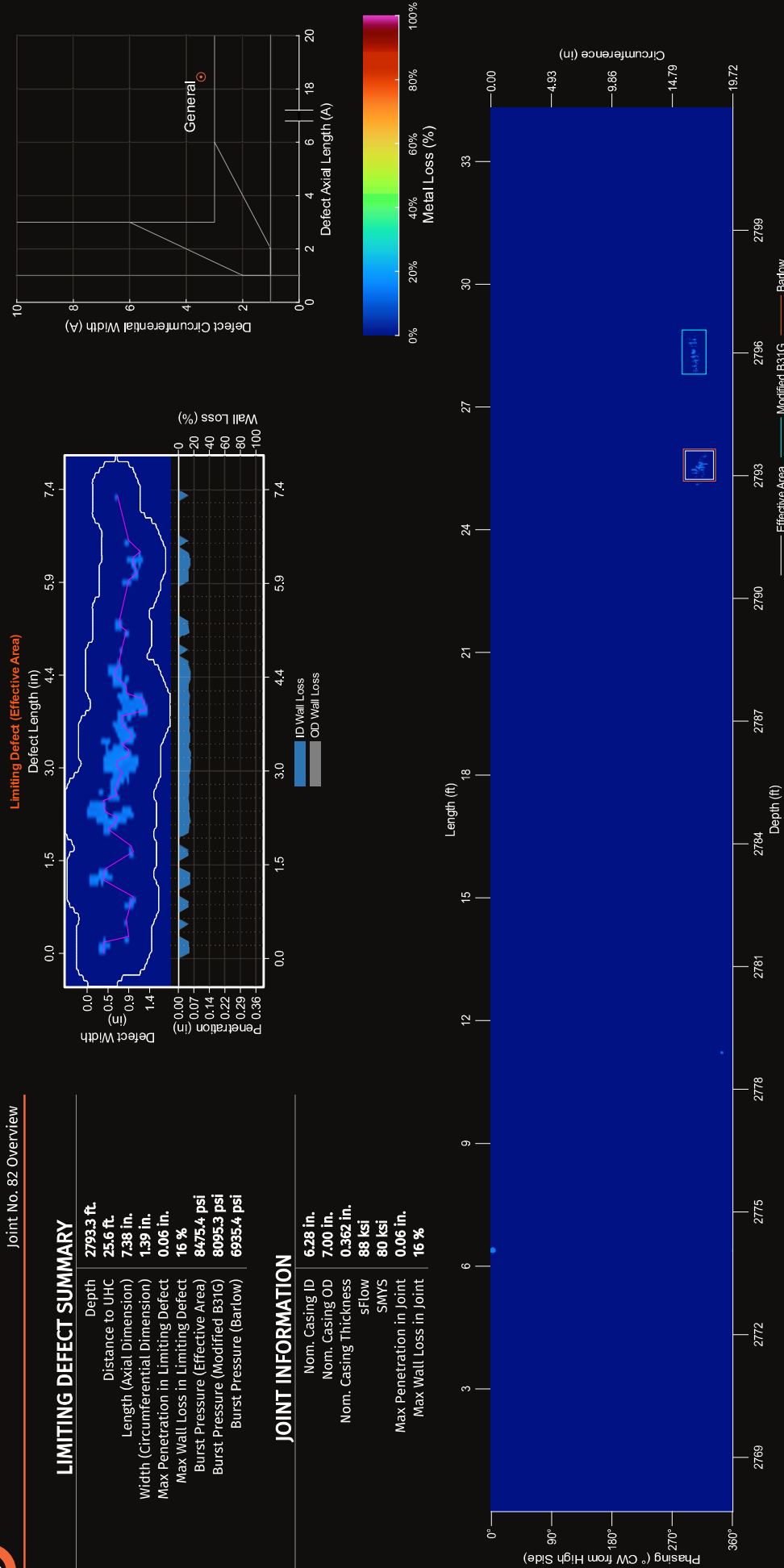
Joint No. 82 Overview

LIMITING DEFECT SUMMARY

Depth	2793.3 ft.
Distance to UHC	25.6 ft.
Length (Axial Dimension)	7.38 in.
Width (Circumferential Dimension)	1.39 in.
Max Penetration in Limiting Defect	0.06 in.
Max Wall Loss in Limiting Defect	16 %
Burst Pressure (Effective Area)	8475.4 psi
Burst Pressure (Modified B31G)	8095.3 psi
Burst Pressure (Barlow)	6935.4 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.06 in.
Max Wall Loss in Joint	16 %





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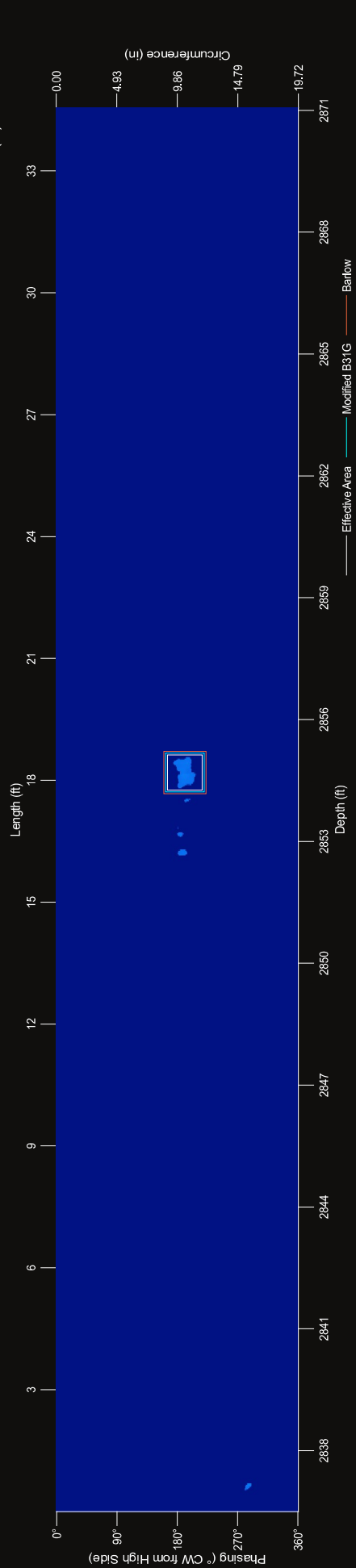
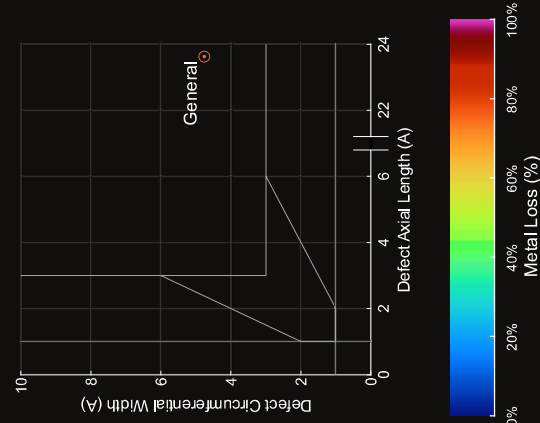
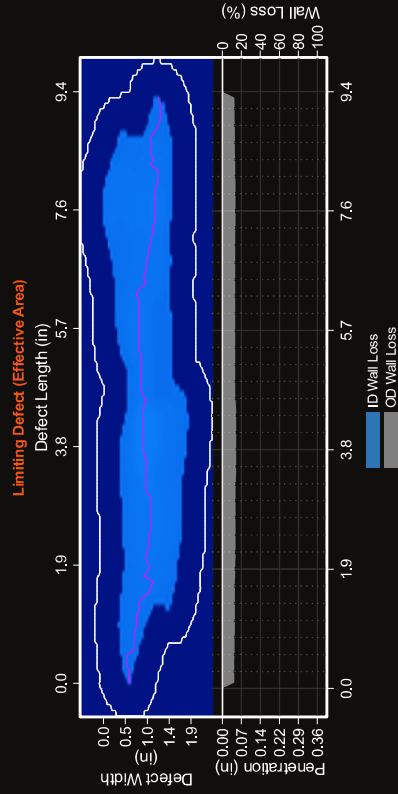
Joint No. 84 Overview

LIMITING DEFECT SUMMARY

Depth	2854.7 ft.
Distance to UHC	18.2 ft.
Length (Axial Dimension)	9.45 in.
Width (Circumferential Dimension)	1.90 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	15 %
Burst Pressure (Effective Area)	8123.7 psi
Burst Pressure (Modified B31G)	8203.4 psi
Burst Pressure (Barlow)	7062.4 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	15 %





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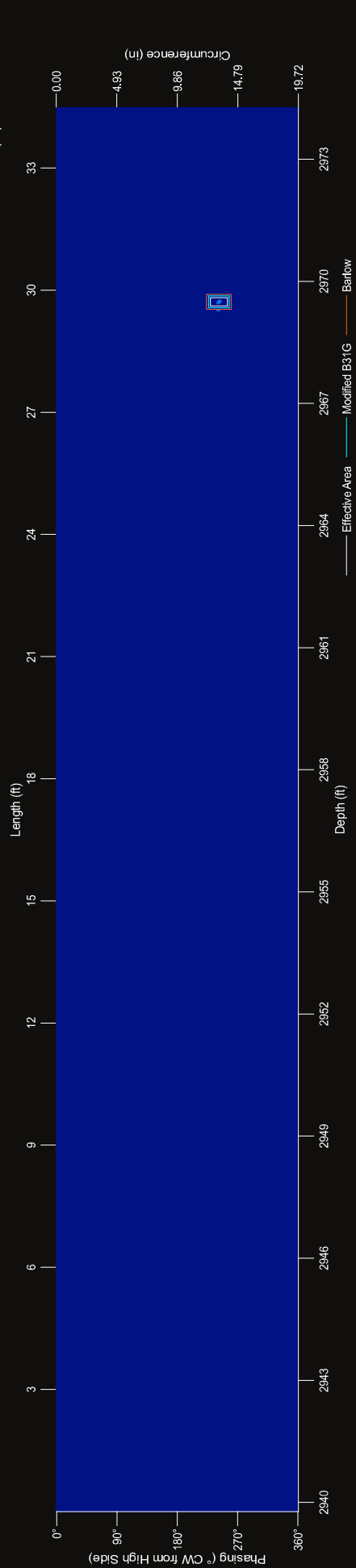
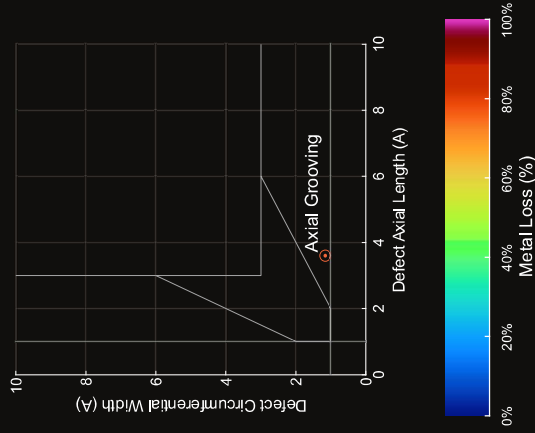
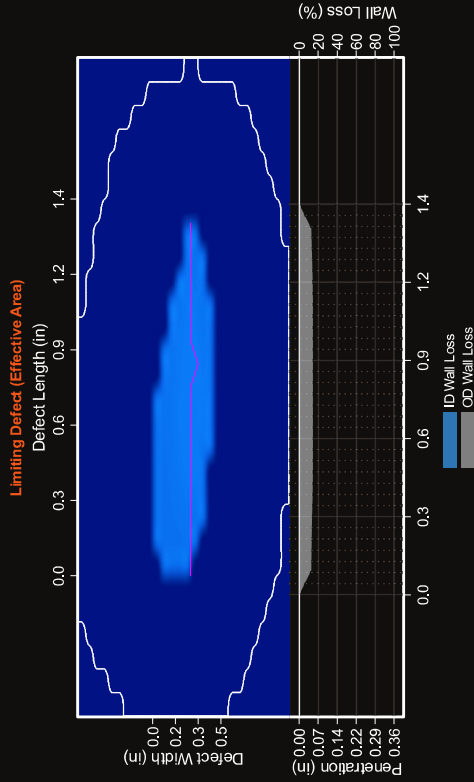
Joint No. 87 Overview

LIMITING DEFECT SUMMARY

Depth **2969.5 ft.**
 Distance to UHC **29.7 ft.**
 Length (Axial Dimension) **1.44 in.**
 Width (Circumferential Dimension) **0.46 in.**
 Max Penetration in Limiting Defect **0.05 in.**
 Max Wall Loss in Limiting Defect **15 %**
 Burst Pressure (Effective Area) **8842.8 psi**
 Burst Pressure (Modified B31G) **8867.7 psi**
 Burst Pressure (Barlow) **7068.1 psi**

JOINT INFORMATION

Nom. Casing ID **6.28 in.**
 Nom. Casing OD **7.00 in.**
 Nom. Casing Thickness **0.362 in.**
 sFlow **88 ksi**
 SMYS **80 ksi**
 Max Penetration in Joint **0.05 in.**
 Max Wall Loss in Joint **15 %**





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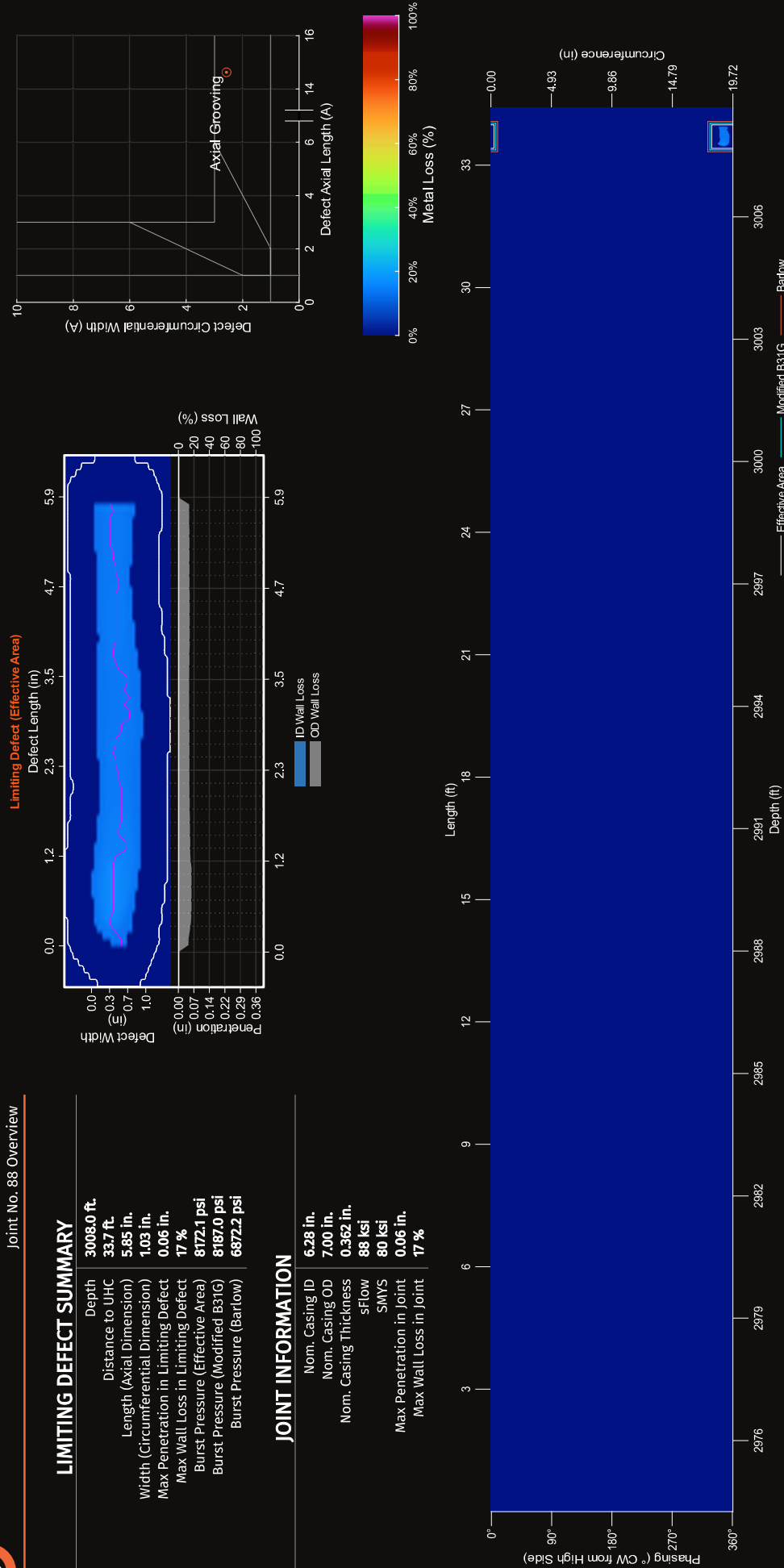
Joint No. 88 Overview

LIMITING DEFECT SUMMARY

Depth	3008.0 ft.
Distance to UHC	33.7 ft.
Length (Axial Dimension)	5.85 in.
Width (Circumferential Dimension)	1.03 in.
Max Penetration in Limiting Defect	0.06 in.
Max Wall Loss in Limiting Defect	17 %
Burst Pressure (Effective Area)	8172.1 psi
Burst Pressure (Modified B31G)	8187.0 psi
Burst Pressure (Barlow)	6872.2 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.06 in.
Max Wall Loss in Joint	17 %





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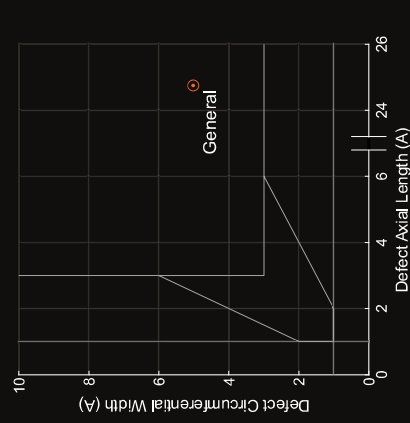
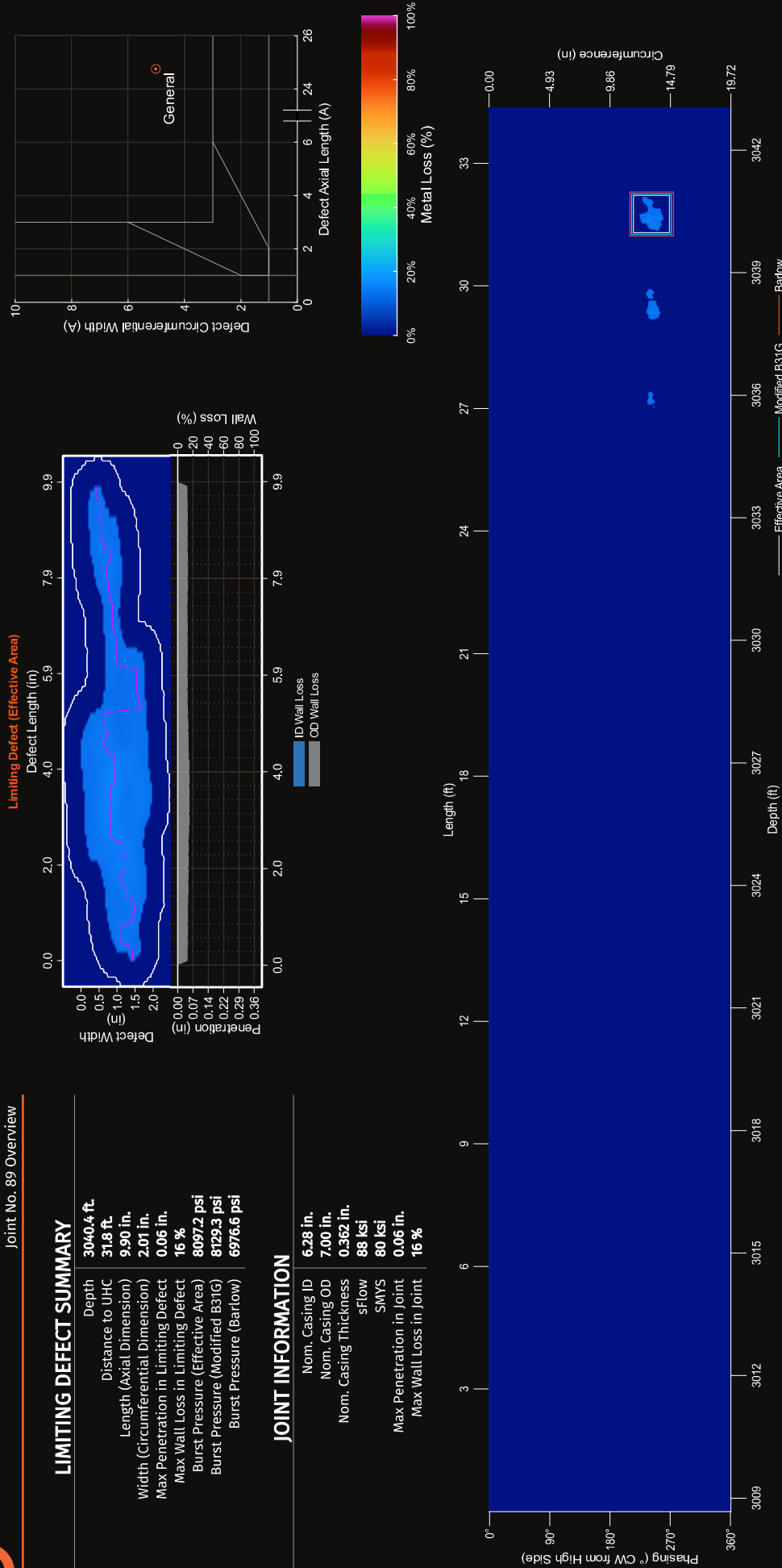
Joint No. 89 Overview

LIMITING DEFECT SUMMARY

Depth	3040.4 ft
Distance to UHC	31.8 ft
Length (Axial Dimension)	9.90 in.
Width (Circumferential Dimension)	2.01 in.
Max Penetration in Limiting Defect	0.06 in.
Max Wall Loss in Limiting Defect	16 %
Burst Pressure (Effective Area)	8097.2 psi
Burst Pressure (Modified B31G)	8129.3 psi
Burst Pressure (Barlow)	6976.6 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.06 in.
Max Wall Loss in Joint	16 %





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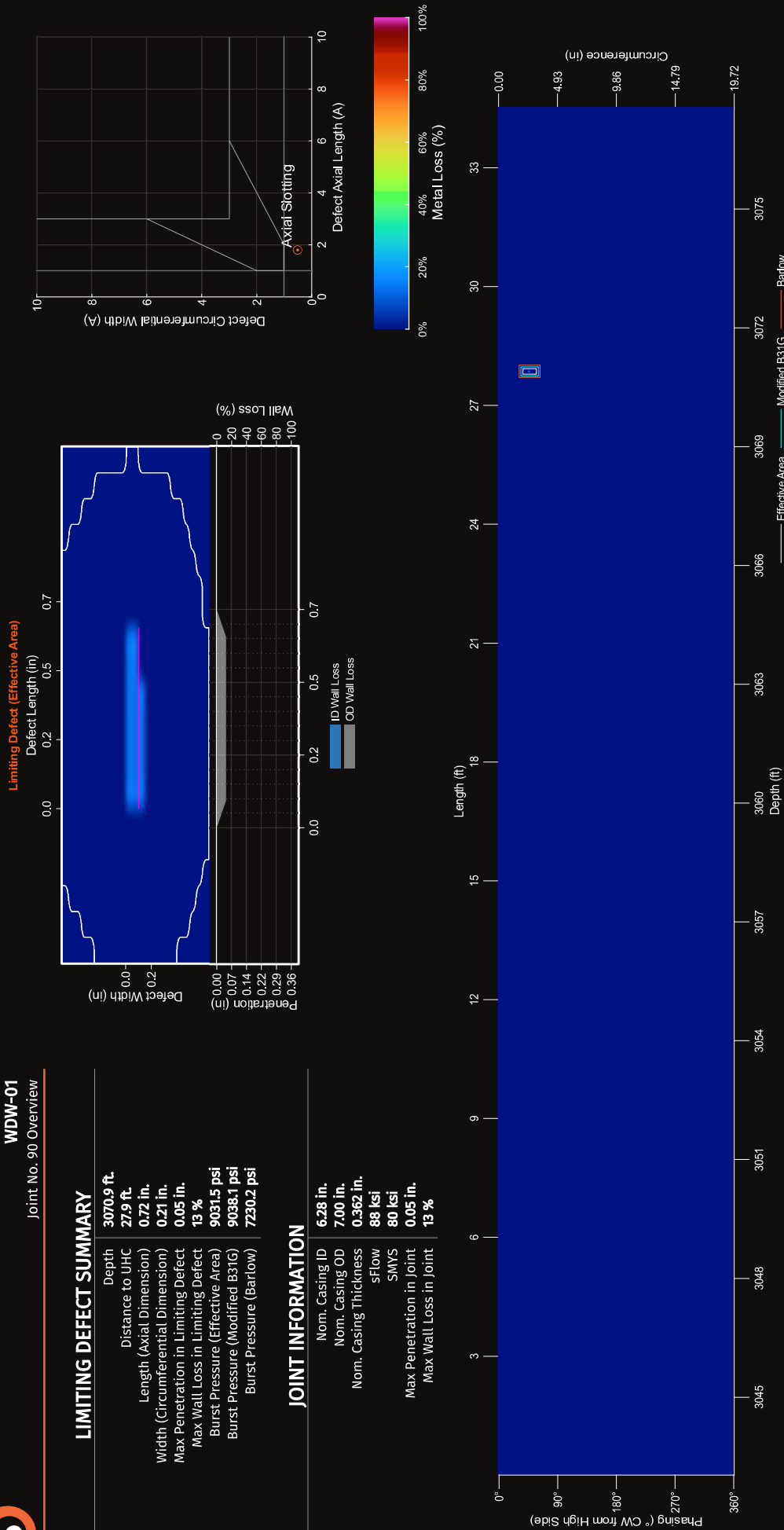
Joint No. 90 Overview

LIMITING DEFECT SUMMARY

Depth **3070.9 ft.**
 Distance to UHC **27.9 ft.**
 Length (Axial Dimension) **0.72 in.**
 Width (Circumferential Dimension) **0.21 in.**
 Max Penetration in Limiting Defect **0.05 in.**
 Max Wall Loss in Limiting Defect **13 %**
 Burst Pressure (Effective Area) **9031.5 psi**
 Burst Pressure (Modified B31G) **9038.1 psi**
 Burst Pressure (Barlow) **7230.2 psi**

JOINT INFORMATION

Nom. Casing ID **6.28 in.**
 Nom. Casing OD **7.00 in.**
 Nom. Casing Thickness **0.362 in.**
 sFlow **88 ksi**
 SMYS **80 ksi**
 Max Penetration in Joint **0.05 in.**
 Max Wall Loss in Joint **13 %**





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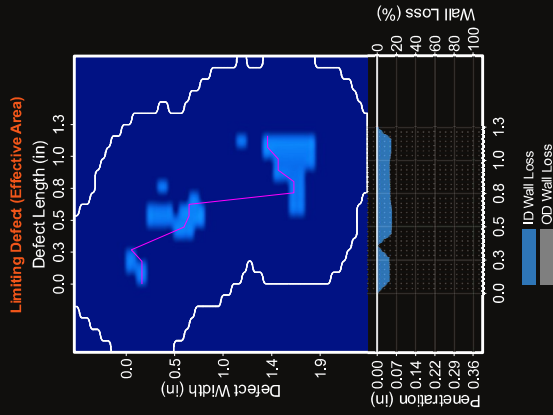
Joint No. 91 Overview

LIMITING DEFECT SUMMARY

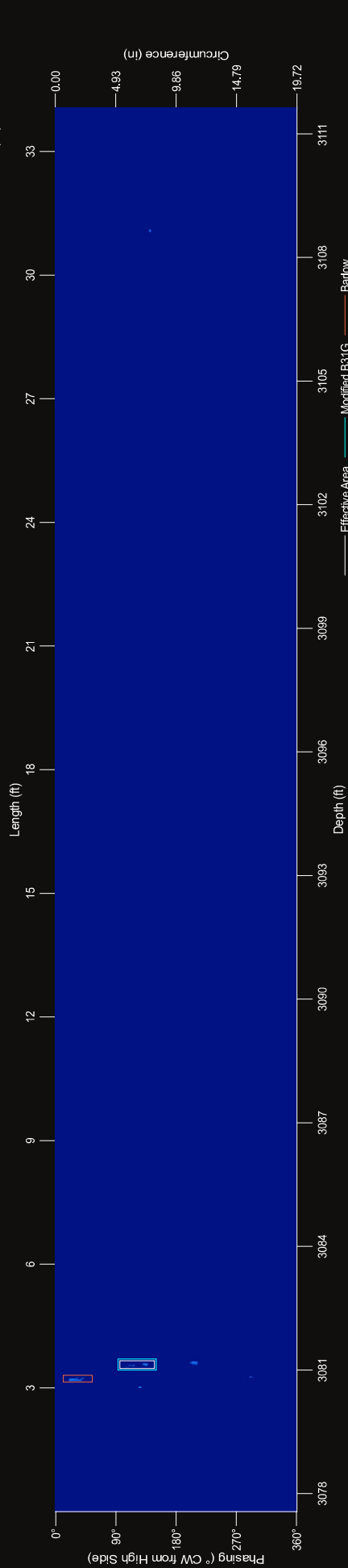
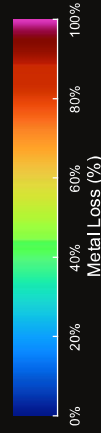
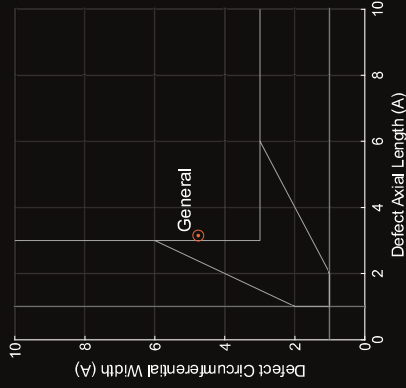
Depth	3081.1 ft.
Distance to UHC	3.6 ft.
Length (Axial Dimension)	1.26 in.
Width (Circumferential Dimension)	1.90 in.
Max Penetration in Limiting Defect	0.06 in.
Max Wall Loss in Limiting Defect	16 %
Burst Pressure (Effective Area)	8911.0 psi
Burst Pressure (Modified B31G)	8895.3 psi
Burst Pressure (Barlow)	6869.0 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.06 in.
Max Wall Loss in Joint	17 %



Limiting Defect (Effective Area)
Defect Length (in)
0.0 0.3 0.5 0.8 1.0 1.3





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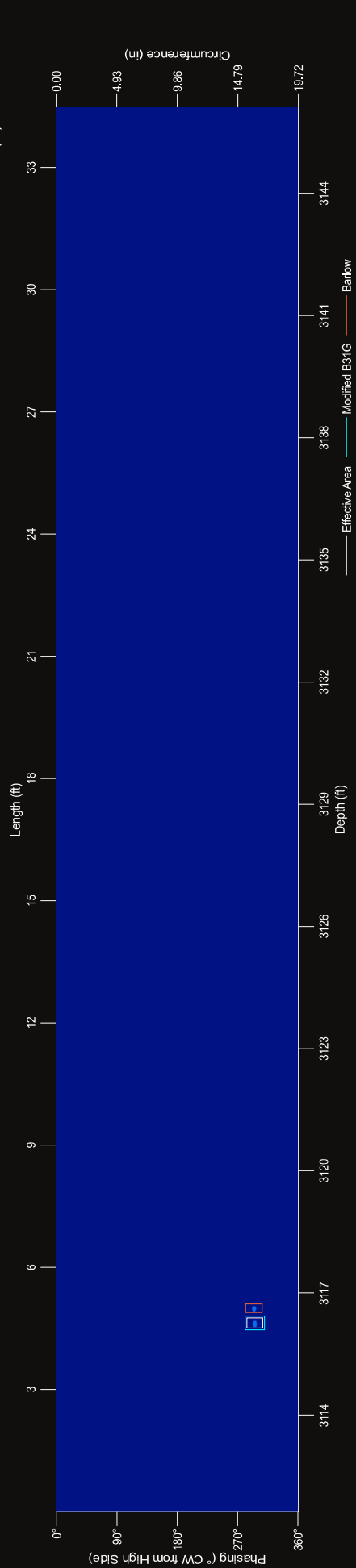
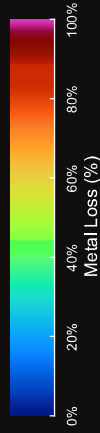
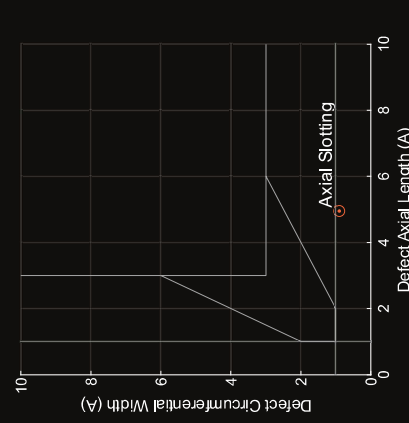
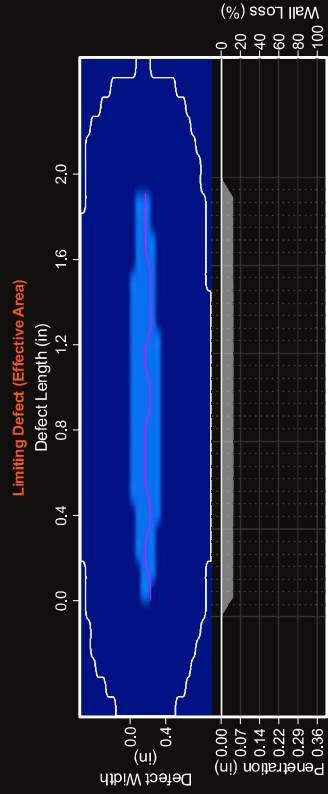
Joint No. 92 Overview

LIMITING DEFECT SUMMARY

Depth	3116.3 ft.
Distance to UHC	4.6 ft.
Length (Axial Dimension)	1.98 in.
Width (Circumferential Dimension)	0.36 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	13 %
Burst Pressure (Effective Area)	8744.5 psi
Burst Pressure (Modified B31G)	8790.6 psi
Burst Pressure (Barlow)	7199.4 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	13 %





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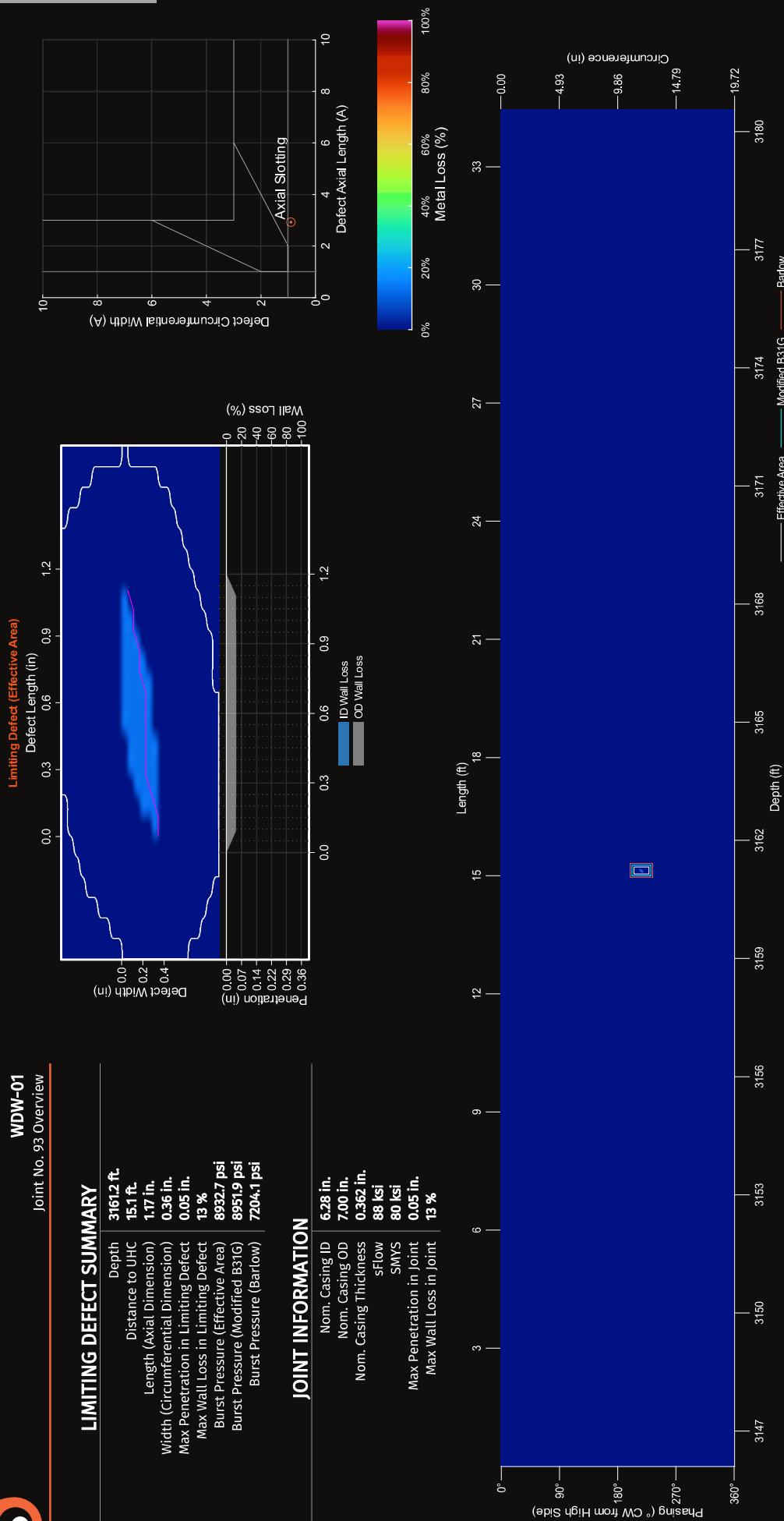
Joint No. 93 Overview

LIMITING DEFECT SUMMARY

Depth **3161.2 ft.**
 Distance to UHC **15.1 ft.**
 Length (Axial Dimension) **1.17 in.**
 Width (Circumferential Dimension) **0.36 in.**
 Max Penetration in Limiting Defect **0.05 in.**
 Max Wall Loss in Limiting Defect **13 %**
 Burst Pressure (Effective Area) **8932.7 psi**
 Burst Pressure (Modified B31G) **8951.9 psi**
 Burst Pressure (Barlow) **7204.1 psi**

JOINT INFORMATION

Nom. Casing ID **6.28 in.**
 Nom. Casing OD **7.00 in.**
 Nom. Casing Thickness **0.362 in.**
 sFlow **88 ksi**
 SMYS **80 ksi**
 Max Penetration in Joint **0.05 in.**
 Max Wall Loss in Joint **13 %**





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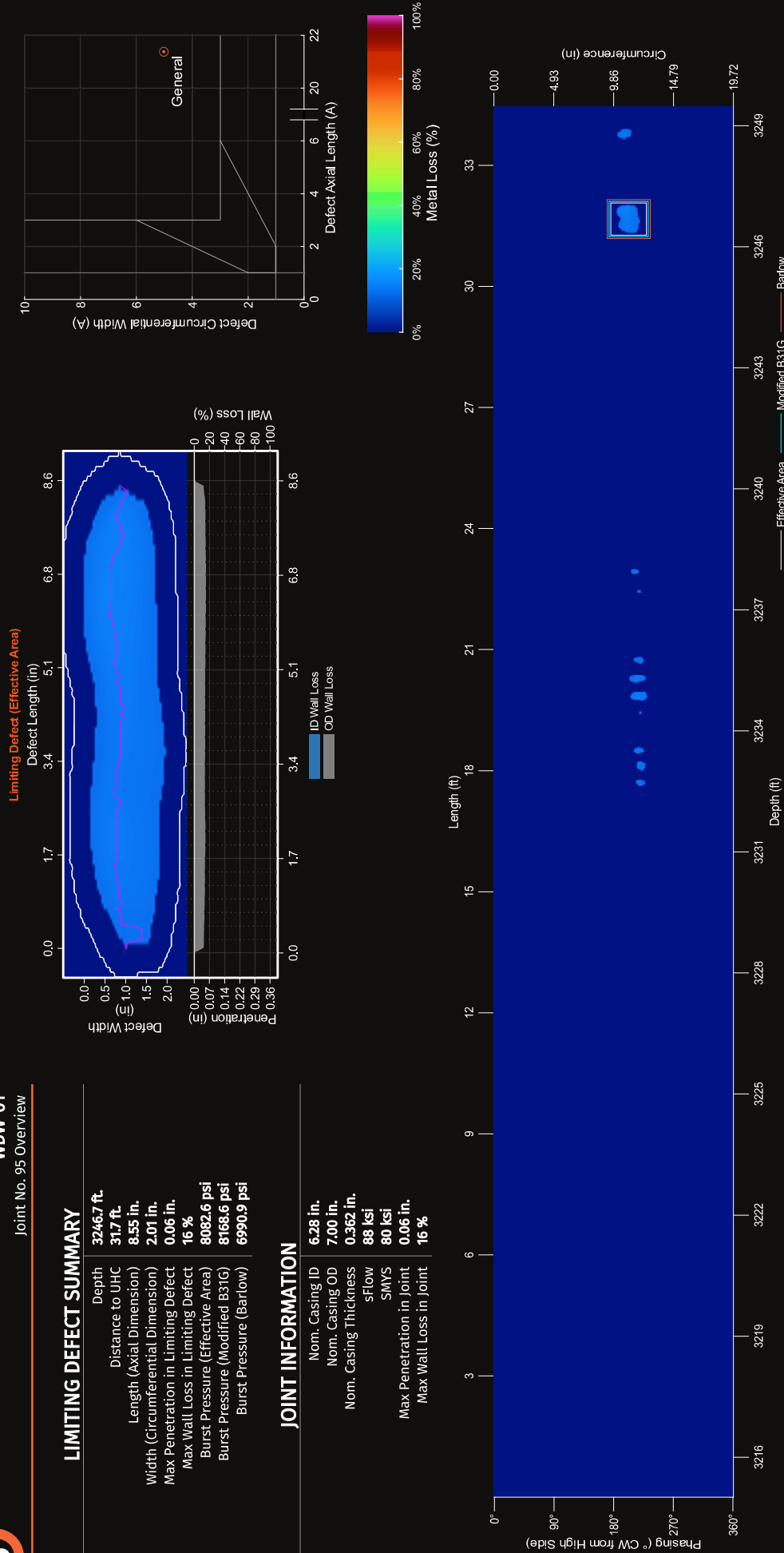
Joint No. 95 Overview

LIMITING DEFECT SUMMARY

Depth	3246.7 ft.
Distance to UHC	31.7 ft.
Length (Axial Dimension)	8.55 in.
Width (Circumferential Dimension)	2.01 in.
Max Penetration in Limiting Defect	0.06 in.
Max Wall Loss in Limiting Defect	16 %
Burst Pressure (Effective Area)	8082.6 psi
Burst Pressure (Modified B31G)	8168.6 psi
Burst Pressure (Barlow)	6990.9 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.06 in.
Max Wall Loss in Joint	16 %





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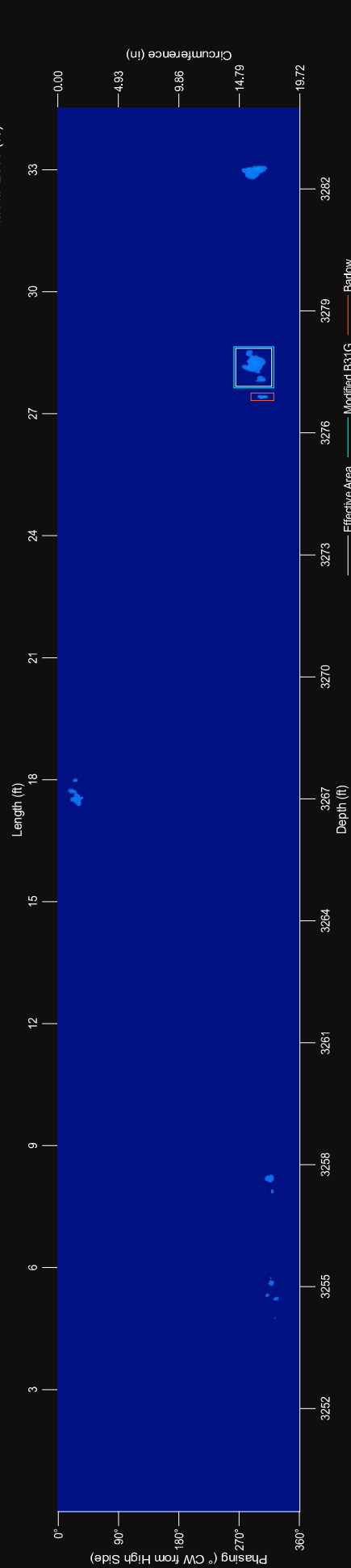
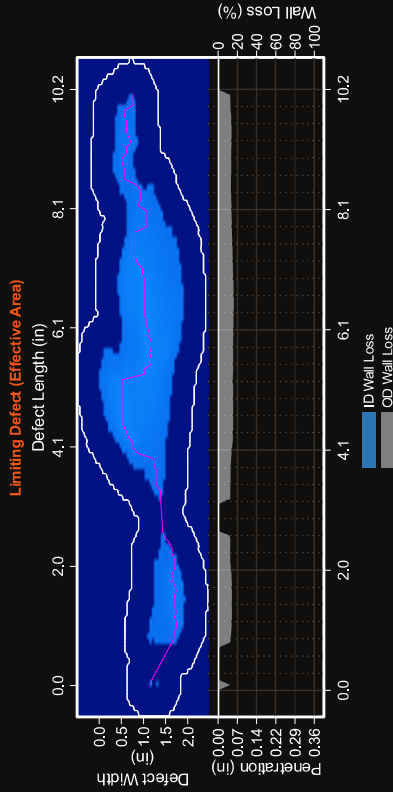
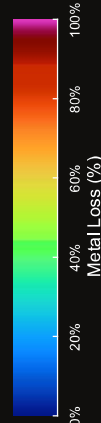
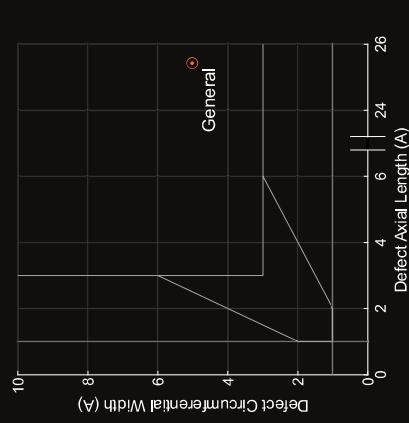
Joint No. 96 Overview

LIMITING DEFECT SUMMARY

Depth **3277.6 ft.**
 Distance to UHC **28.1 ft.**
 Length (Axial Dimension) **10.17 in.**
 Width (Circumferential Dimension) **2.01 in.**
 Max Penetration in Limiting Defect **0.06 in.**
 Max Wall Loss in Limiting Defect **16 %**
 Burst Pressure (Effective Area) **8175.6 psi**
 Burst Pressure (Modified B31G) **8089.2 psi**
 Burst Pressure (Barlow) **6594.8 psi**

JOINT INFORMATION

Nom. Casing ID **6.28 in.**
 Nom. Casing OD **7.00 in.**
 Nom. Casing Thickness **0.362 in.**
 sFlow **88 ksi**
 SMYS **80 ksi**
 Max Penetration in Joint **0.07 in.**
 Max Wall Loss in Joint **20 %**





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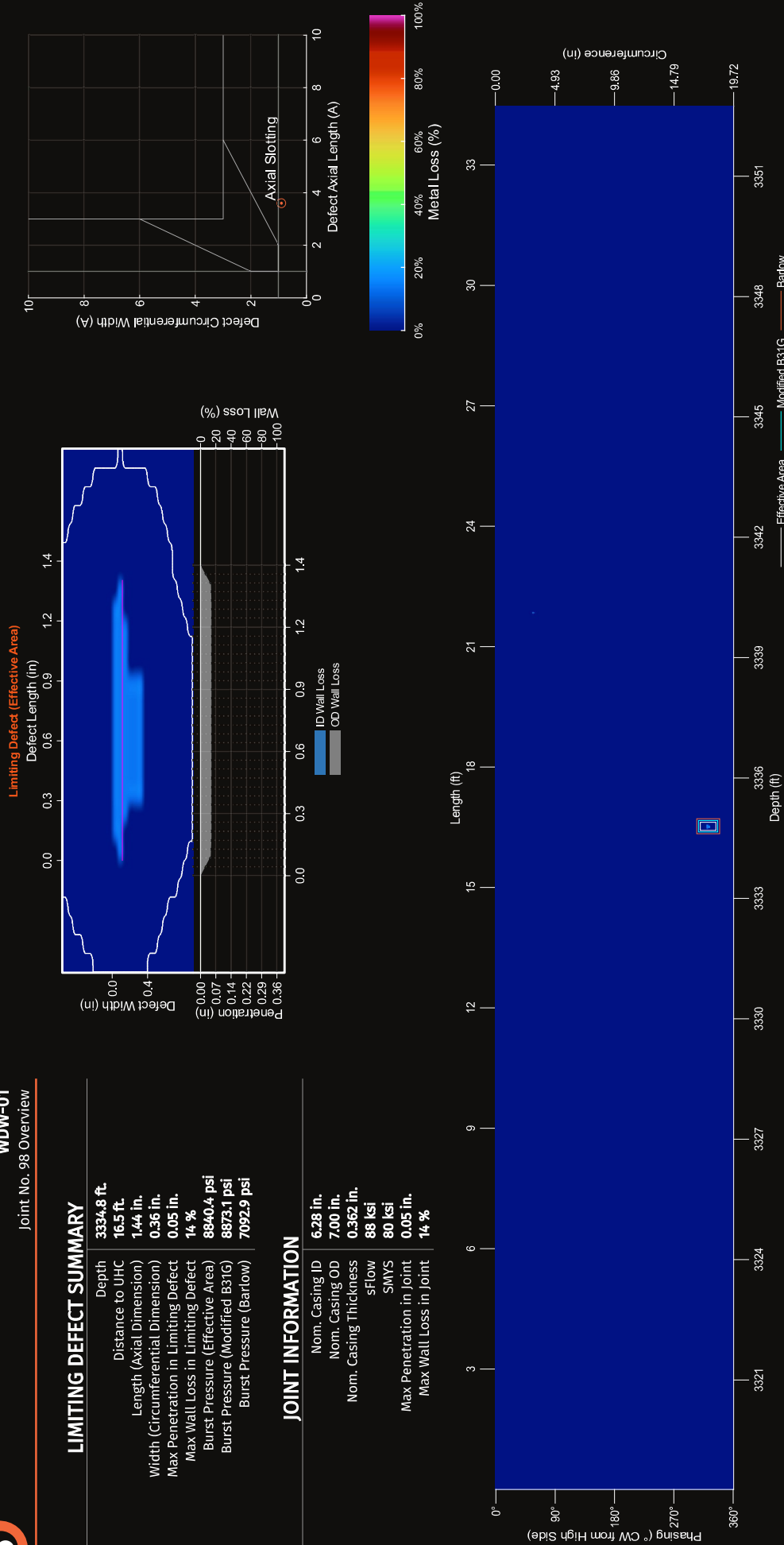
Joint No. 98 Overview

LIMITING DEFECT SUMMARY

Depth	3334.8 ft.
Distance to UHC	16.5 ft.
Length (Axial Dimension)	1.44 in.
Width (Circumferential Dimension)	0.36 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	14 %
Burst Pressure (Effective Area)	8840.4 psi
Burst Pressure (Modified B31G)	8873.1 psi
Burst Pressure (Barlow)	7092.9 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	14 %





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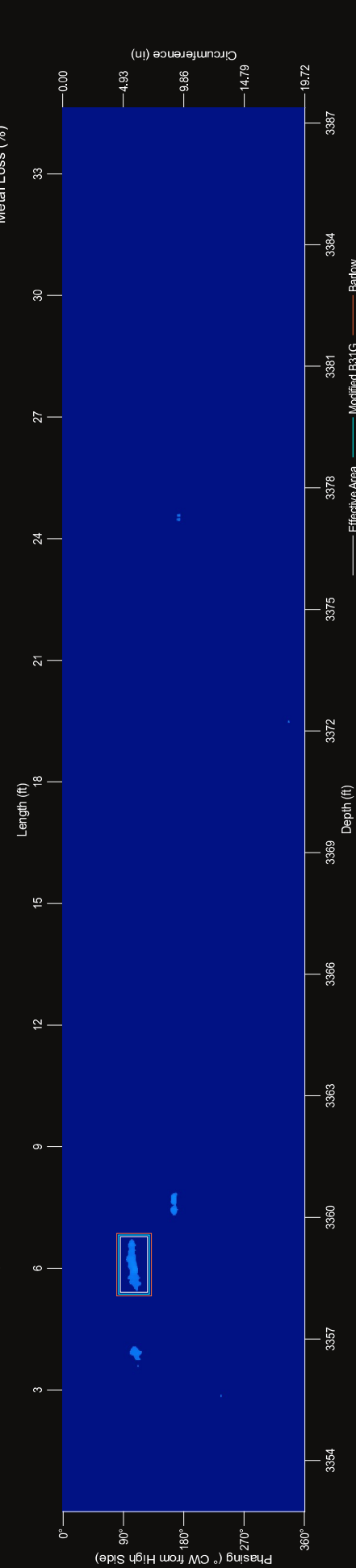
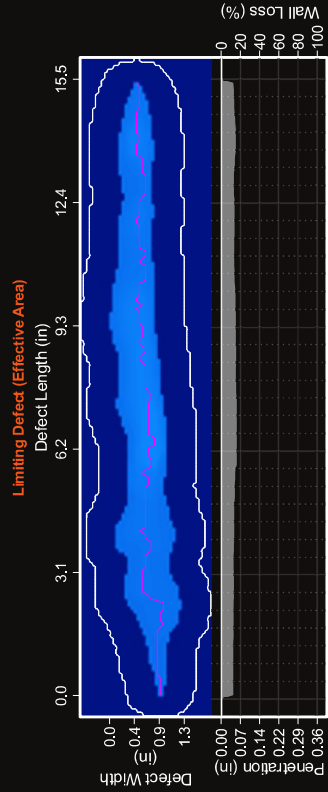
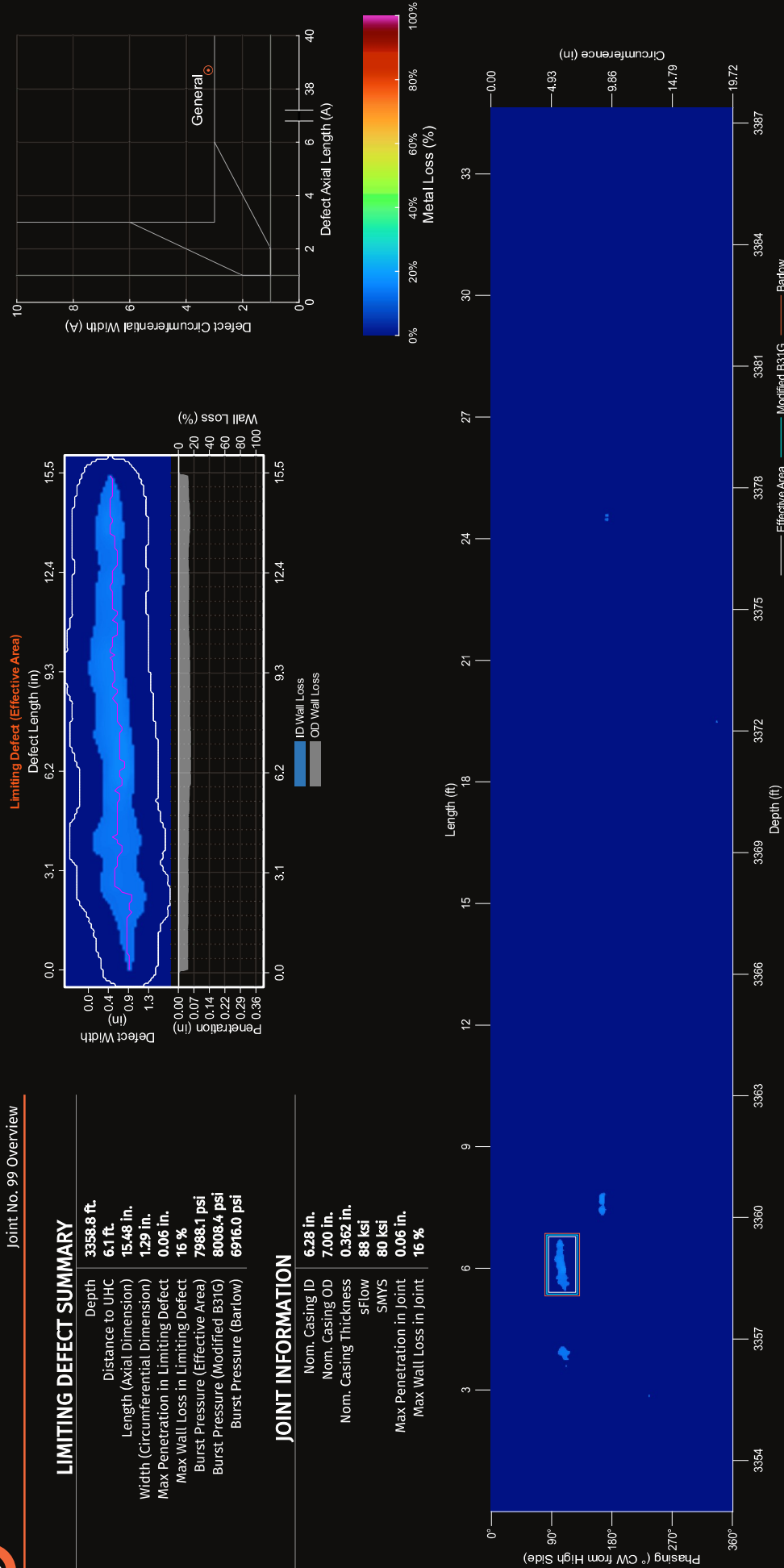
Joint No. 99 Overview

LIMITING DEFECT SUMMARY

Depth **3358.8 ft.**
 Distance to UHC **6.1 ft.**
 Length (Axial Dimension) **15.48 in.**
 Width (Circumferential Dimension) **1.29 in.**
 Max Penetration in Limiting Defect **0.06 in.**
 Max Wall Loss in Limiting Defect **16 %**
 Burst Pressure (Effective Area) **7988.1 psi**
 Burst Pressure (Modified B31G) **8008.4 psi**
 Burst Pressure (Barlow) **6916.0 psi**

JOINT INFORMATION

Nom. Casing ID **6.28 in.**
 Nom. Casing OD **7.00 in.**
 Nom. Casing Thickness **0.362 in.**
 sFlow **88 ksi**
 SMYS **80 ksi**
 Max Penetration in Joint **0.06 in.**
 Max Wall Loss in Joint **16 %**





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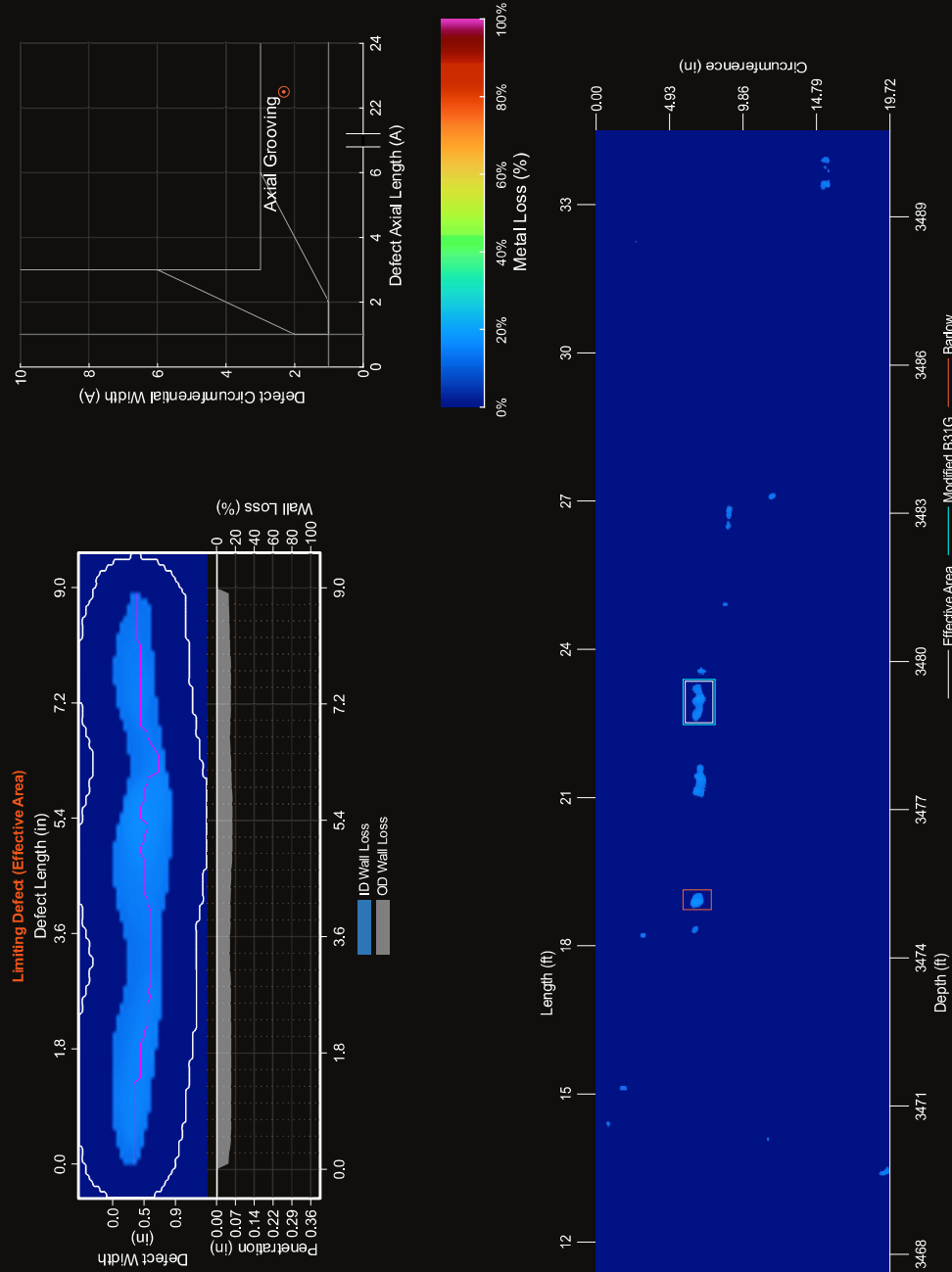
Joint No. 102 Overview

LIMITING DEFECT SUMMARY

Depth	3479.2 ft.
Distance to UHC	22.9 ft.
Length (Axial Dimension)	9.00 in.
Width (Circumferential Dimension)	0.93 in.
Max Penetration in Limiting Defect	0.06 in.
Max Wall Loss in Limiting Defect	17 %
Burst Pressure (Effective Area)	8008.5 psi
Burst Pressure (Modified B31G)	8057.0 psi
Burst Pressure (Barlow)	6798.2 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.06 in.
Max Wall Loss in Joint	18 %





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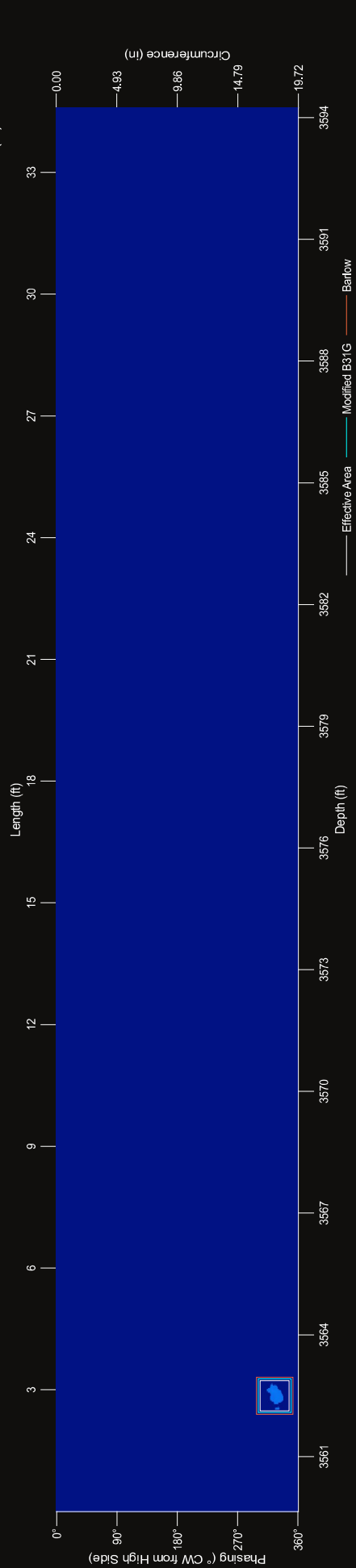
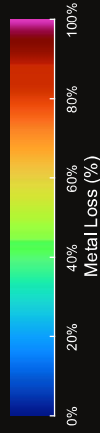
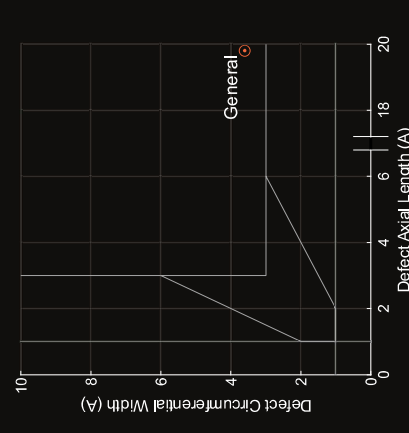
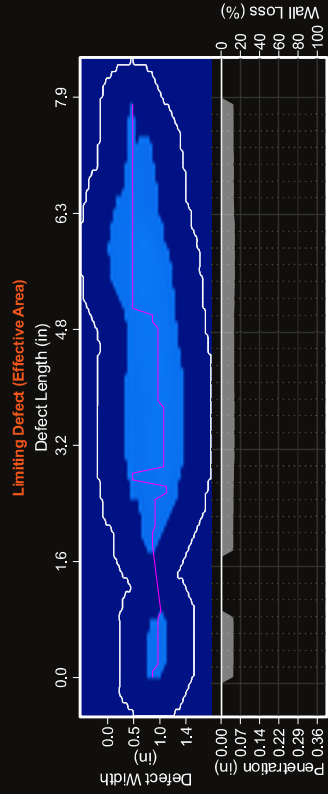
Joint No. 105 Overview

LIMITING DEFECT SUMMARY

Depth	3562.5 ft.
Distance to UHC	2.9 ft.
Length (Axial Dimension)	7.92 in.
Width (Circumferential Dimension)	1.44 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	14 %
Burst Pressure (Effective Area)	8269.6 psi
Burst Pressure (Modified B31G)	8252.4 psi
Burst Pressure (Barlow)	7081.5 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	14 %





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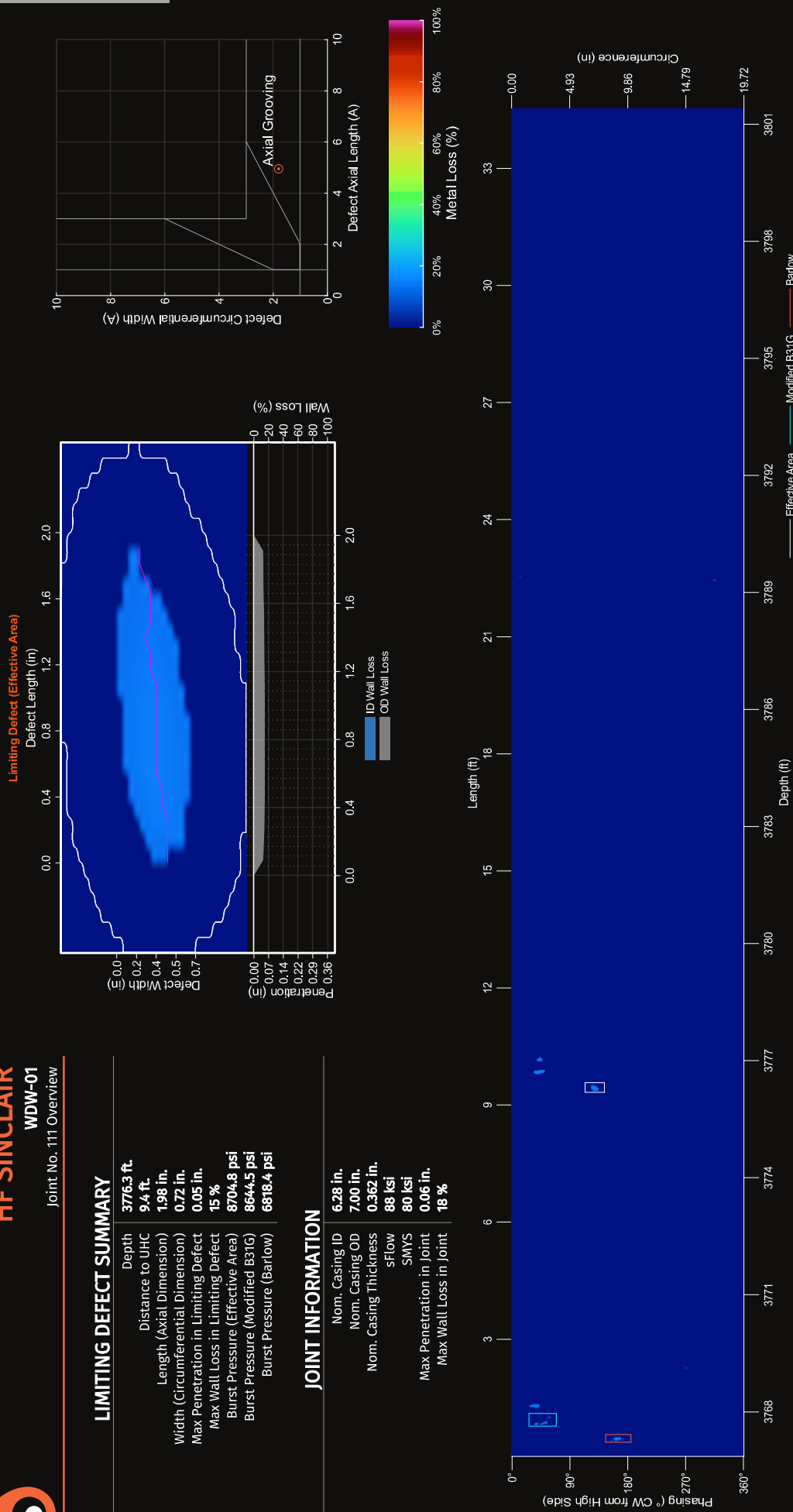
Joint No. 111 Overview

LIMITING DEFECT SUMMARY

Depth **3776.3 ft.**
 Distance to UHC **9.4 ft.**
 Length (Axial Dimension) **1.98 in.**
 Width (Circumferential Dimension) **0.72 in.**
 Max Penetration in Limiting Defect **0.05 in.**
 Max Wall Loss in Limiting Defect **15 %**
 Burst Pressure (Effective Area) **8704.8 psi**
 Burst Pressure (Modified B31G) **8644.5 psi**
 Burst Pressure (Barlow) **6818.4 psi**

JOINT INFORMATION

Nom. Casing ID **6.28 in.**
 Nom. Casing OD **7.00 in.**
 Nom. Casing Thickness **0.362 in.**
 sFlow **88 ksi**
 SMYS **80 ksi**
 Max Penetration in Joint **0.06 in.**
 Max Wall Loss in Joint **18 %**





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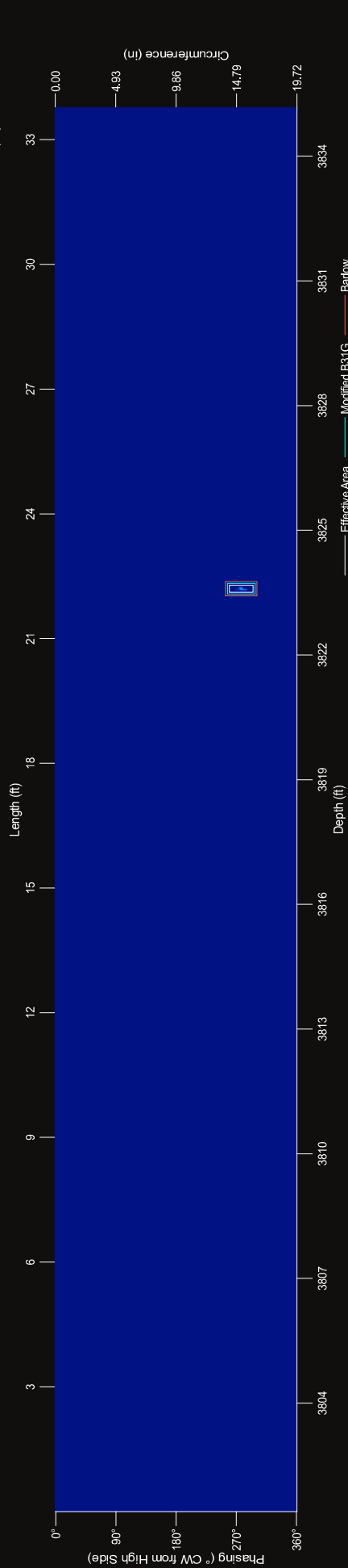
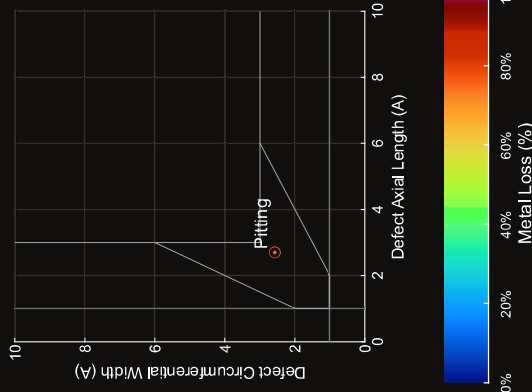
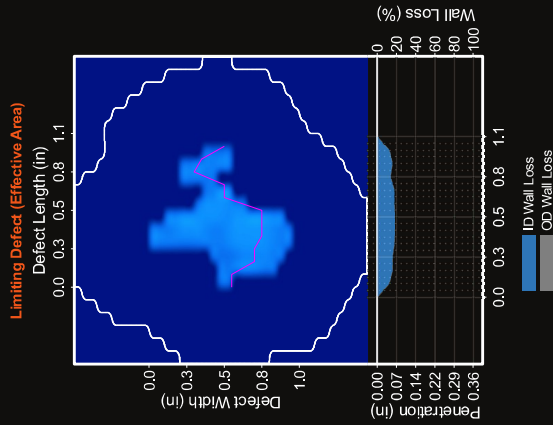
Joint No. 112 Overview

LIMITING DEFECT SUMMARY

Depth	3823.6 ft
Distance to UHC	22.2 ft
Length (Axial Dimension)	1.08 in.
Width (Circumferential Dimension)	1.03 in.
Max Penetration in Limiting Defect	0.07 in.
Max Wall Loss in Limiting Defect	19 %
Burst Pressure (Effective Area)	8904.3 psi
Burst Pressure (Modified B31G)	8902.5 psi
Burst Pressure (Barlow)	6732.4 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.07 in.
Max Wall Loss in Joint	19 %





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WDW-01

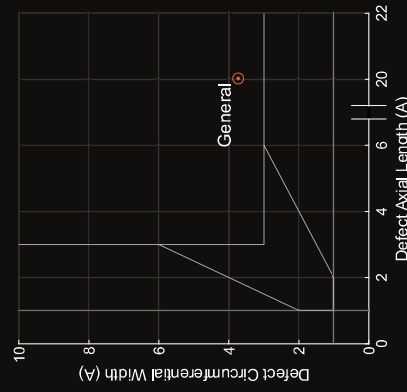
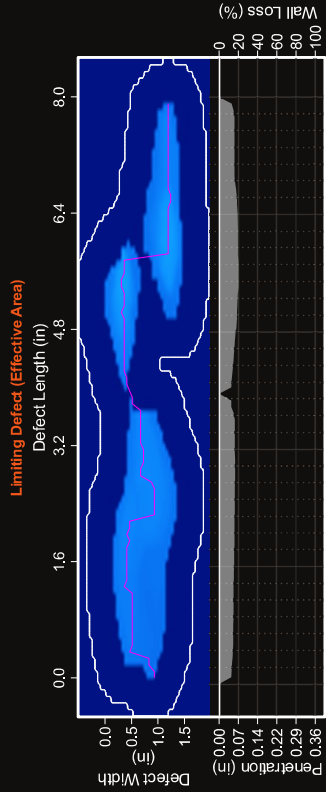
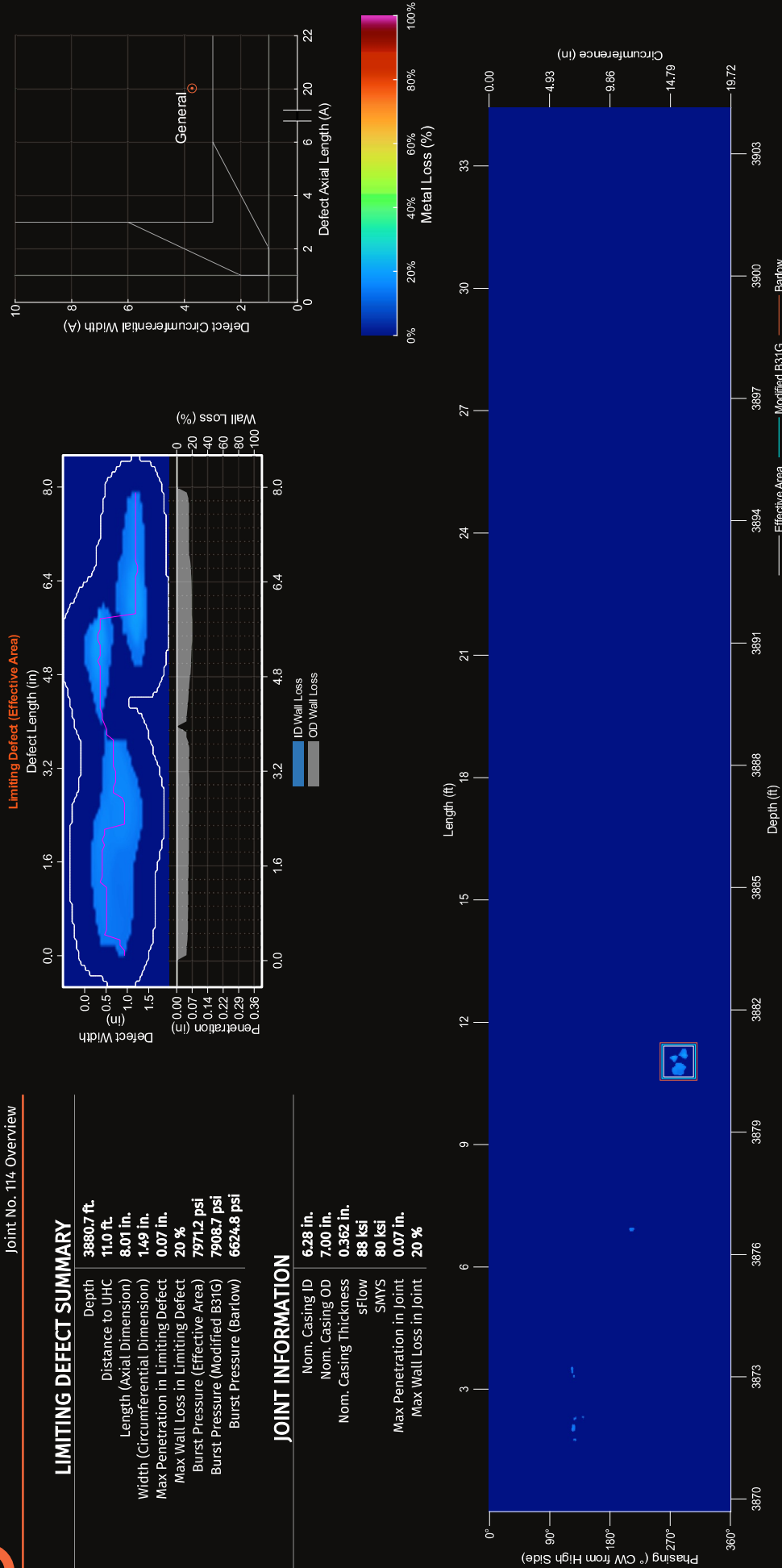
Joint No. 114 Overview

LIMITING DEFECT SUMMARY

Depth	3880.7 ft.
Distance to UHC	11.0 ft.
Length (Axial Dimension)	8.01 in.
Width (Circumferential Dimension)	1.49 in.
Max Penetration in Limiting Defect	0.07 in.
Max Wall Loss in Limiting Defect	20 %
Burst Pressure (Effective Area)	7971.2 psi
Burst Pressure (Modified B31G)	7908.7 psi
Burst Pressure (Barlow)	6624.8 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.07 in.
Max Wall Loss in Joint	20 %





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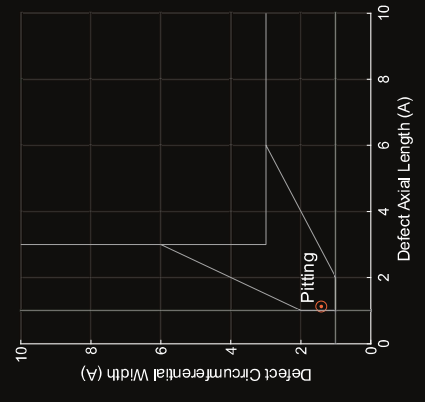
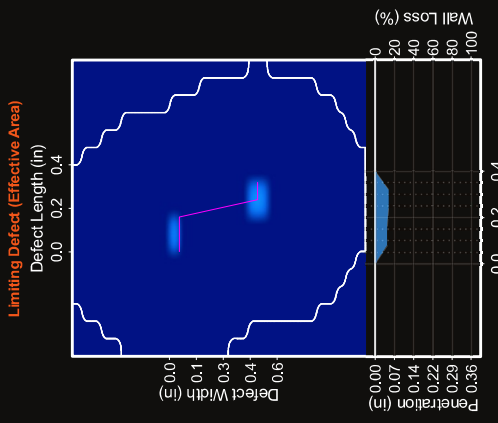
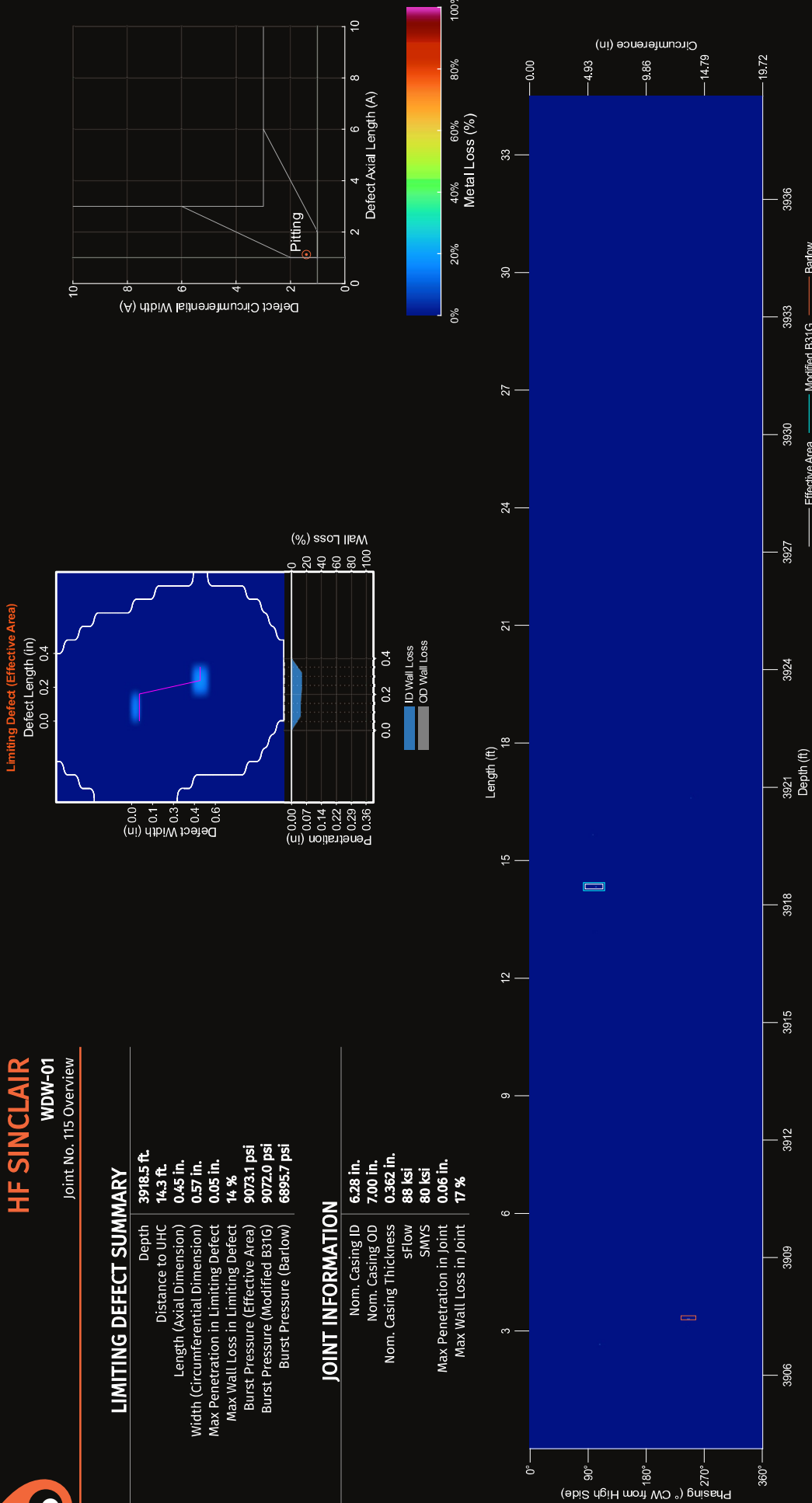
Joint No. 115 Overview

LIMITING DEFECT SUMMARY

Depth	3918.5 ft.
Distance to UHC	14.3 ft.
Length (Axial Dimension)	0.45 in.
Width (Circumferential Dimension)	0.57 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	14 %
Burst Pressure (Effective Area)	9073.1 psi
Burst Pressure (Modified B31G)	9072.0 psi
Burst Pressure (Barlow)	6895.7 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.06 in.
Max Wall Loss in Joint	17 %





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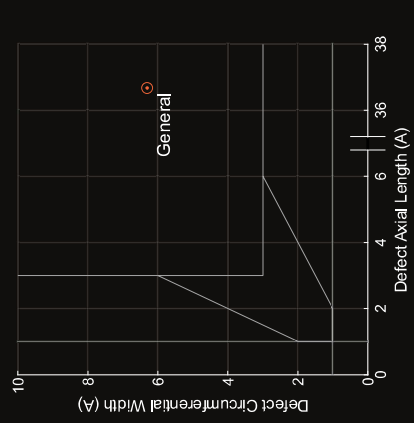
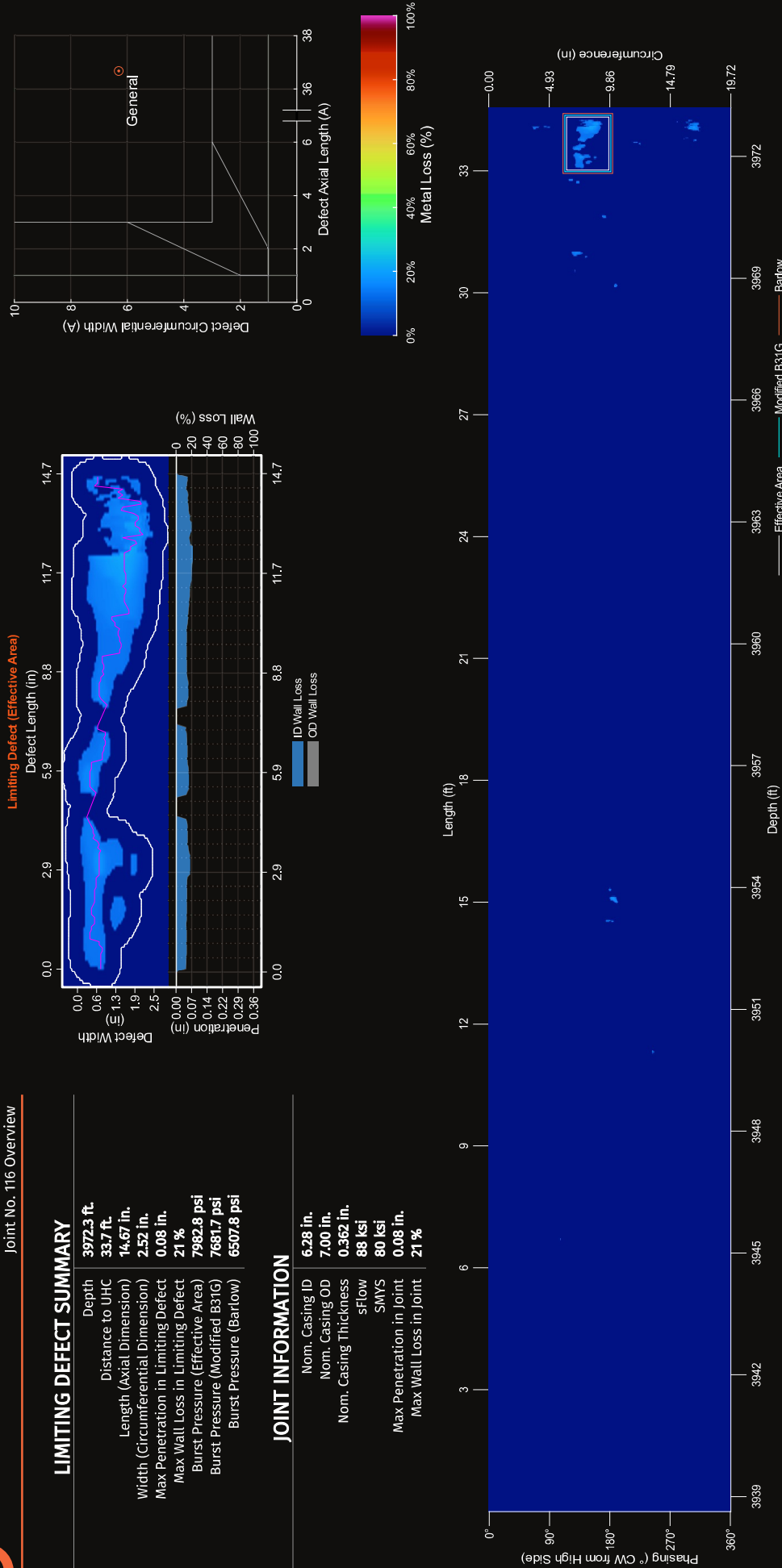
Joint No. 116 Overview

LIMITING DEFECT SUMMARY

Depth	3972.3 ft.
Distance to UHC	33.7 ft.
Length (Axial Dimension)	14.67 in.
Width (Circumferential Dimension)	2.52 in.
Max Penetration in Limiting Defect	0.08 in.
Max Wall Loss in Limiting Defect	21 %
Burst Pressure (Effective Area)	7982.8 psi
Burst Pressure (Modified B31G)	7681.7 psi
Burst Pressure (Barlow)	6507.8 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.08 in.
Max Wall Loss in Joint	21 %





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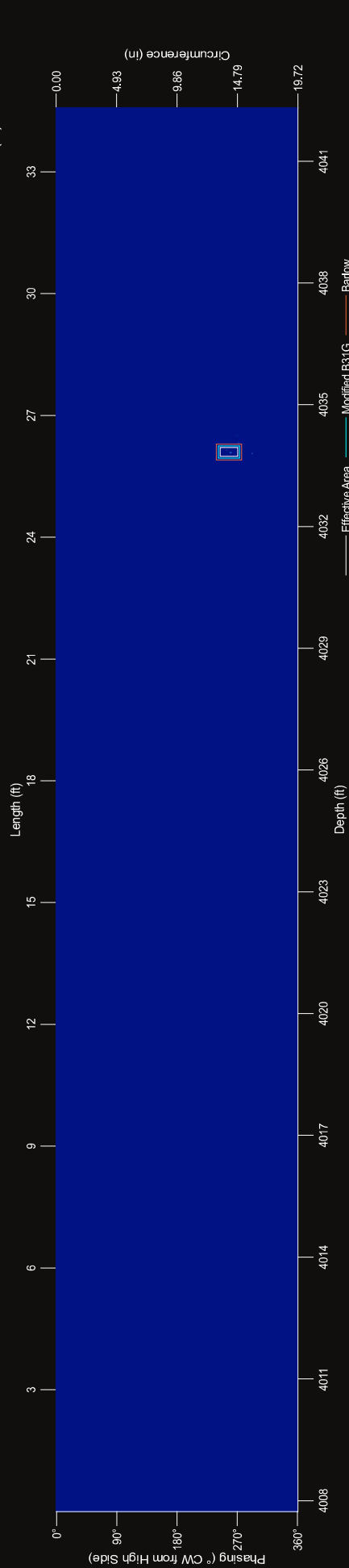
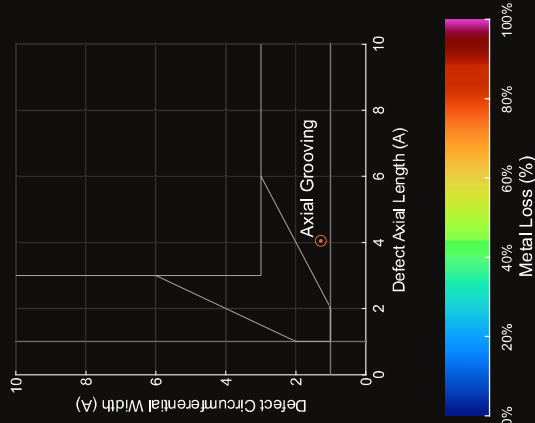
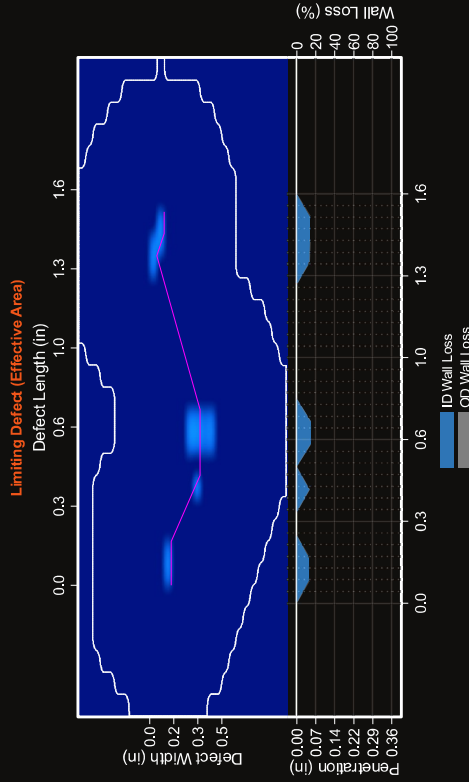
Joint No. 118 Overview

LIMITING DEFECT SUMMARY

Depth	4033.8 ft.
Distance to UHC	26.1 ft.
Length (Axial Dimension)	1.62 in.
Width (Circumferential Dimension)	0.51 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	15 %
Burst Pressure (Effective Area)	8973.1 psi
Burst Pressure (Modified B31G)	8818.2 psi
Burst Pressure (Barlow)	7036.0 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	15 %





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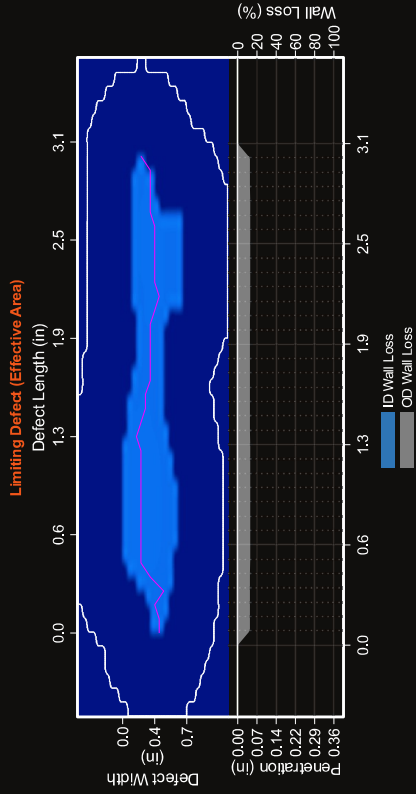
Joint No. 122 Overview

LIMITING DEFECT SUMMARY

Depth	4150.8 ft
Distance to UHC	4.8 ft
Length (Axial Dimension)	3.15 in.
Width (Circumferential Dimension)	0.72 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	13 %
Burst Pressure (Effective Area)	8536.5 psi
Burst Pressure (Modified B31G)	8610.7 psi
Burst Pressure (Barlow)	7196.7 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	13 %



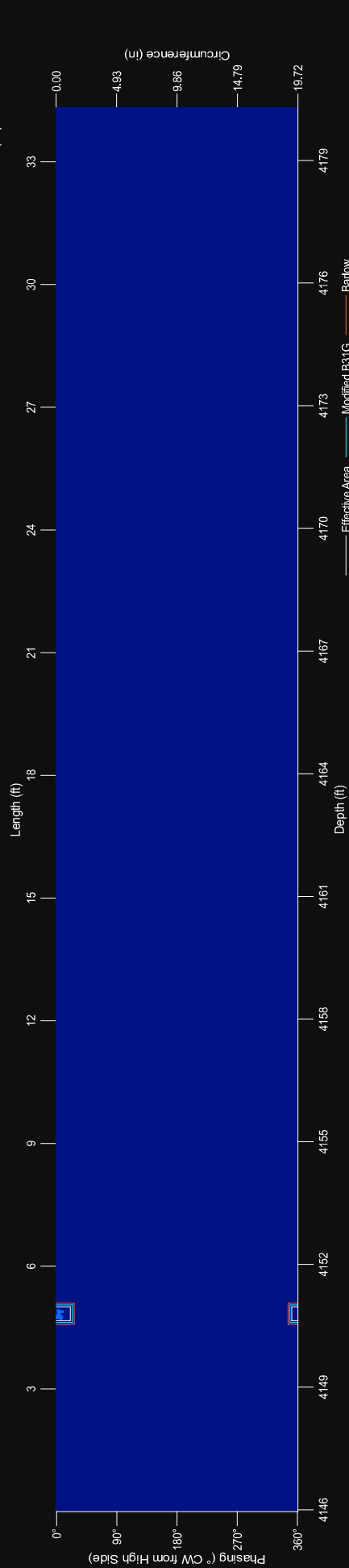
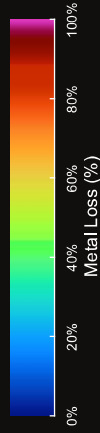
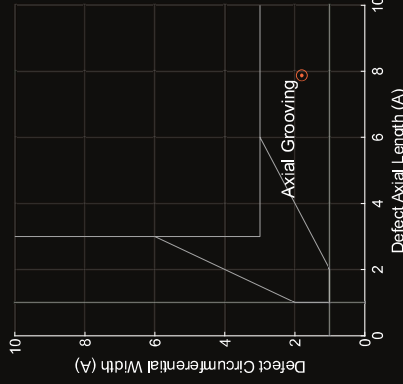
Limiting Defect (Effective Area)

Defect Length (in)

Defect Width

Penetration (in)
0.00
0.07
0.14
0.22
0.29
0.36

Wall Loss (%)
0
20
40
60
80
100





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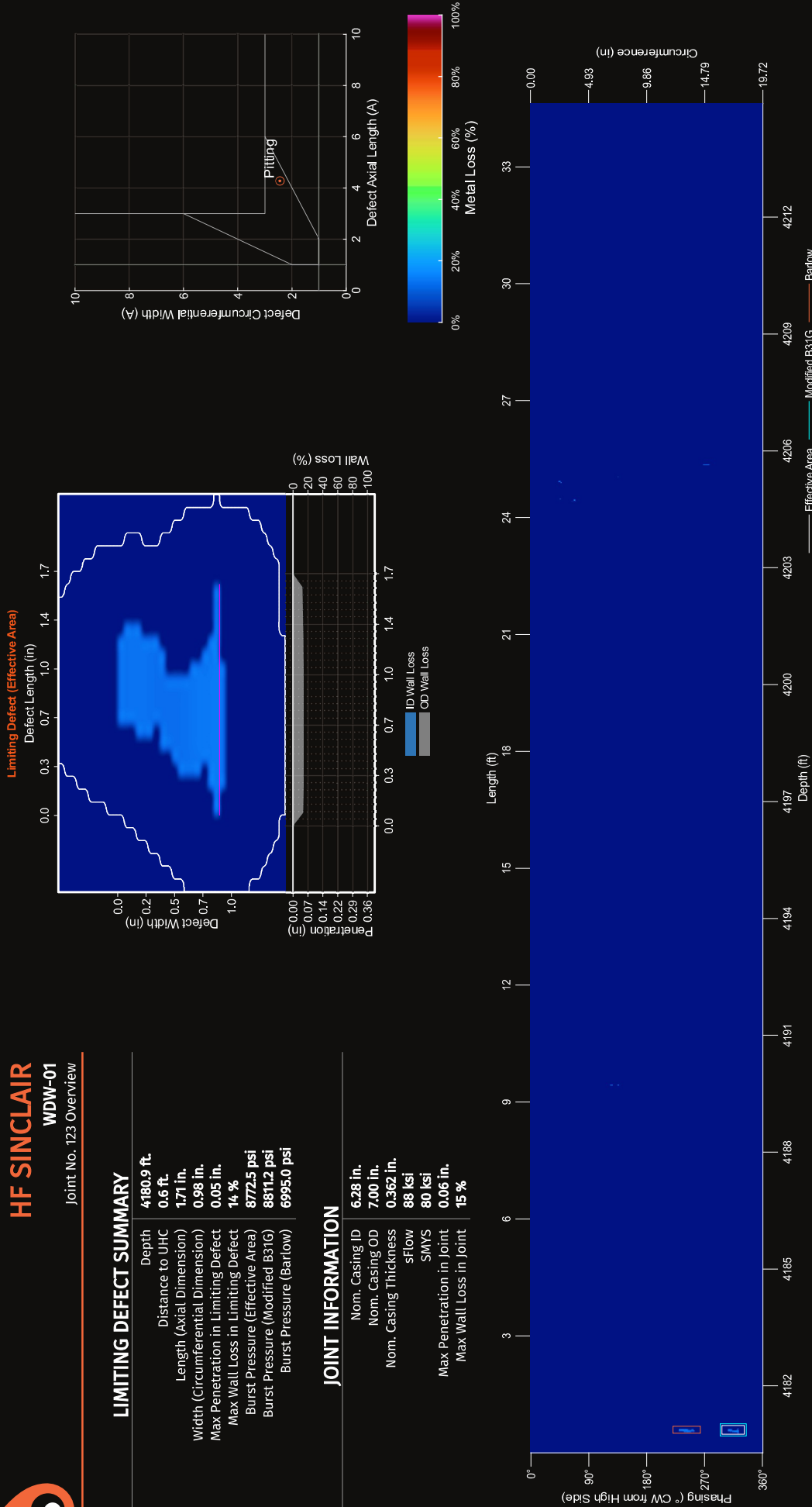
Joint No. 123 Overview

LIMITING DEFECT SUMMARY

Depth	4180.9 ft.
Distance to UHC	0.6 ft.
Length (Axial Dimension)	1.71 in.
Width (Circumferential Dimension)	0.98 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	14 %
Burst Pressure (Effective Area)	8772.5 psi
Burst Pressure (Modified B31G)	8811.2 psi
Burst Pressure (Barlow)	6995.0 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.06 in.
Max Wall Loss in Joint	15 %





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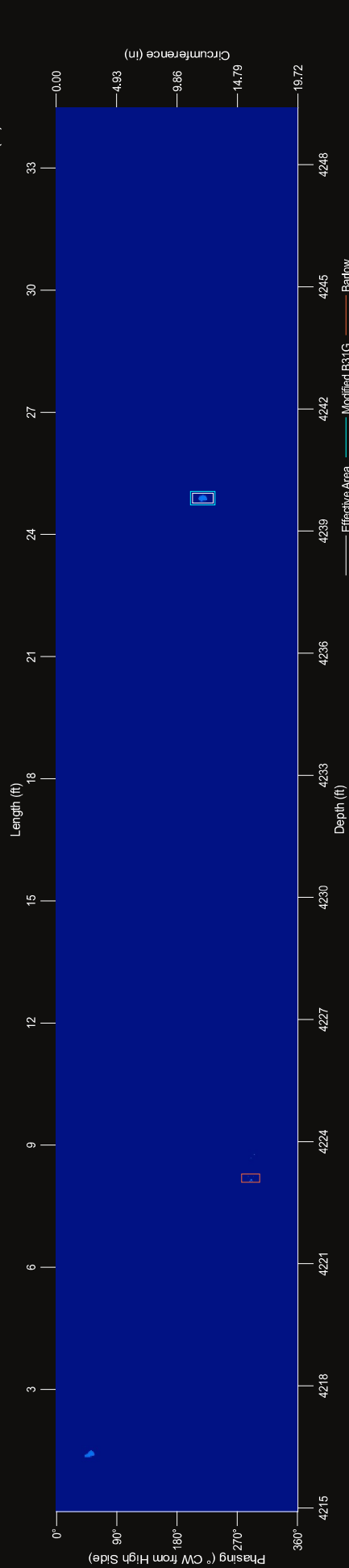
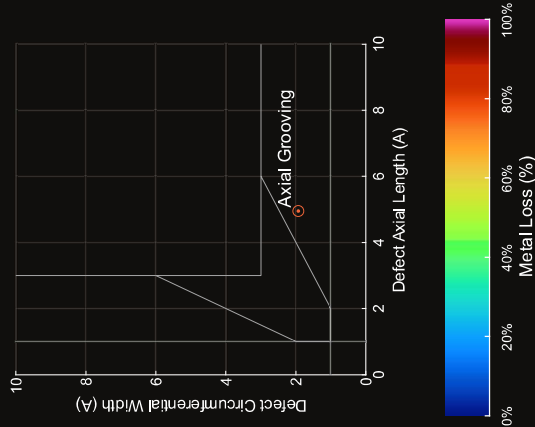
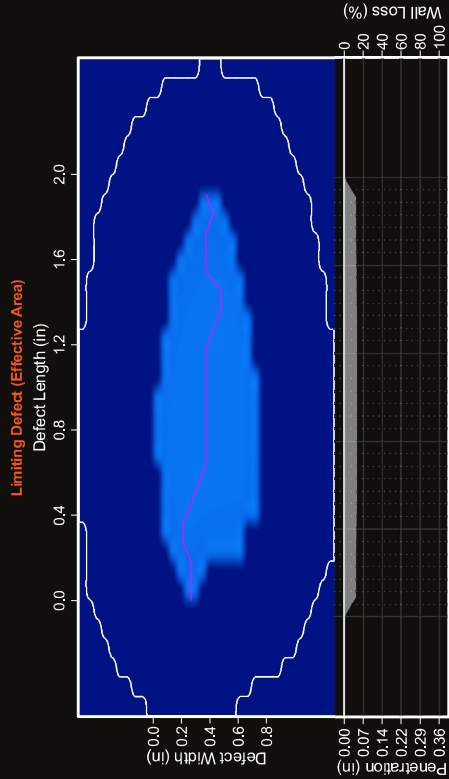
Joint No. 124 Overview

LIMITING DEFECT SUMMARY

Depth	4239.8 ft.
Distance to UHC	24.9 ft.
Length (Axial Dimension)	1.98 in.
Width (Circumferential Dimension)	0.77 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	14 %
Burst Pressure (Effective Area)	8729.2 psi
Burst Pressure (Modified B31G)	8769.1 psi
Burst Pressure (Barlow)	7044.3 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	15 %





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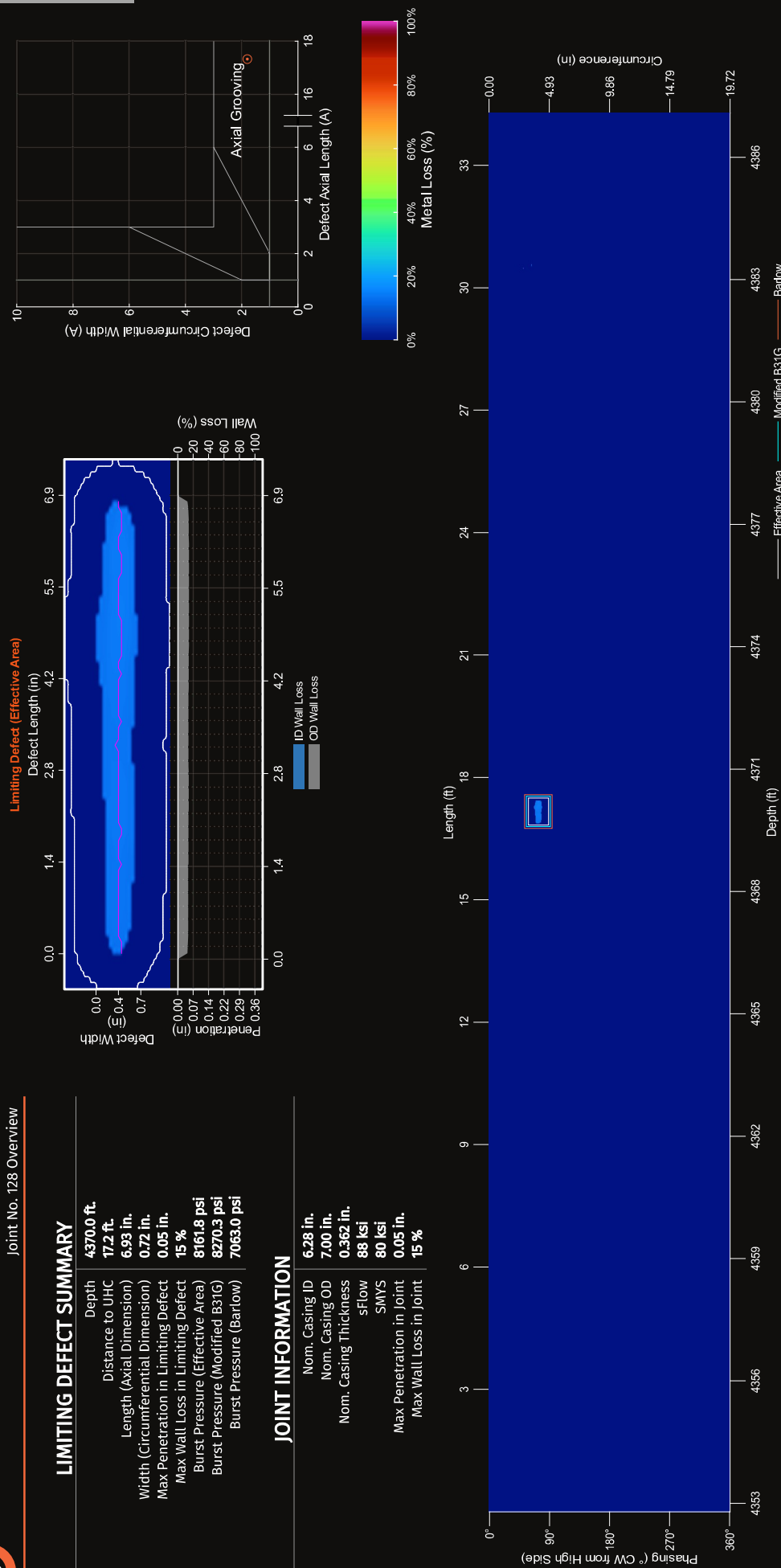
Joint No. 128 Overview

LIMITING DEFECT SUMMARY

Depth	4370.0 ft.
Distance to UHC	17.2 ft.
Length (Axial Dimension)	6.93 in.
Width (Circumferential Dimension)	0.72 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	15 %
Burst Pressure (Effective Area)	8161.8 psi
Burst Pressure (Modified B31G)	8270.3 psi
Burst Pressure (Barlow)	7063.0 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	15 %





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WDW-01

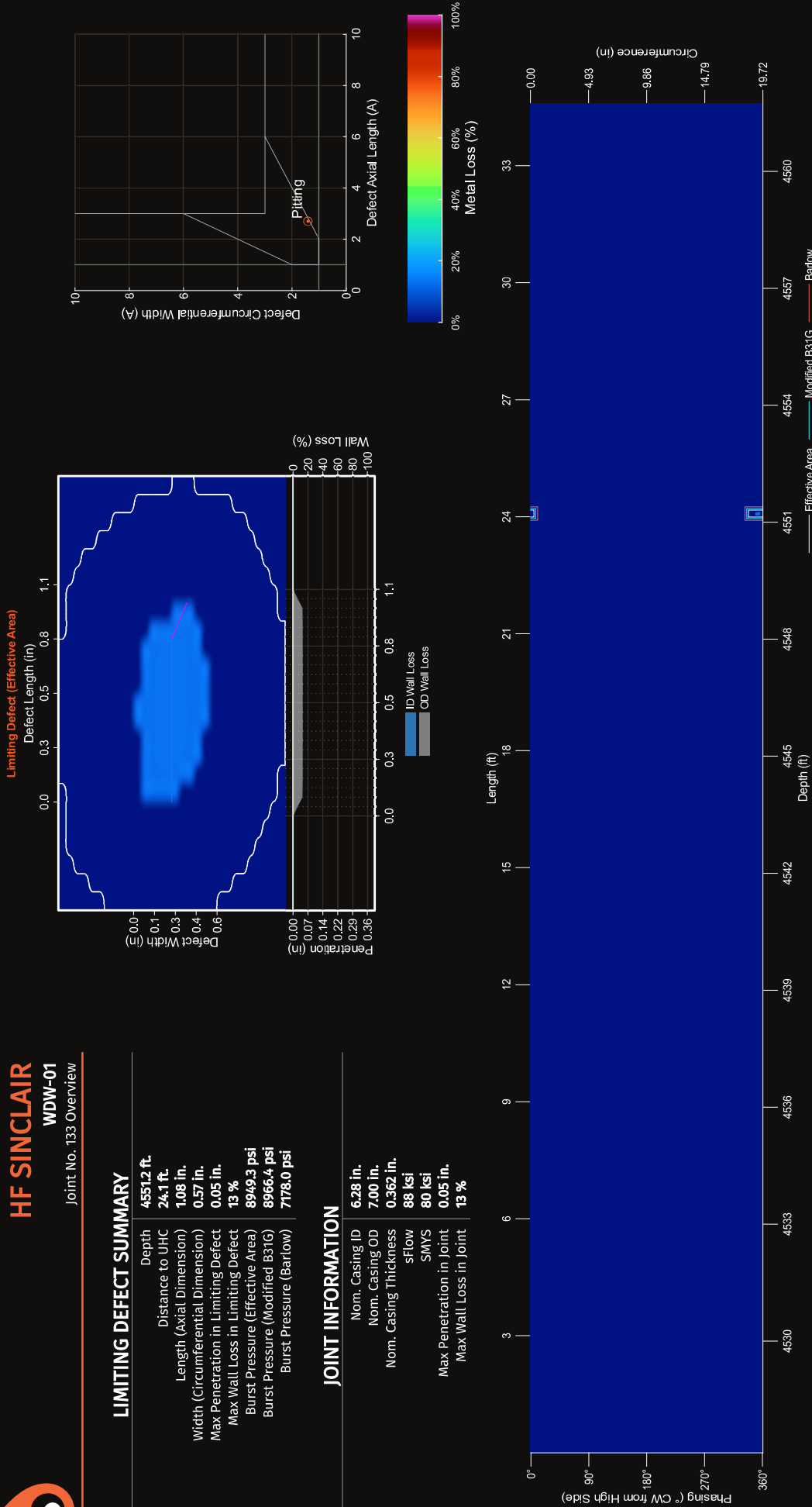
Joint No. 133 Overview

LIMITING DEFECT SUMMARY

Depth	4551.2 ft.
Distance to UHC	24.1 ft.
Length (Axial Dimension)	1.08 in.
Width (Circumferential Dimension)	0.57 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	13 %
Burst Pressure (Effective Area)	8949.3 psi
Burst Pressure (Modified B31G)	8966.4 psi
Burst Pressure (Barlow)	7178.0 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	13 %





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WDW-01

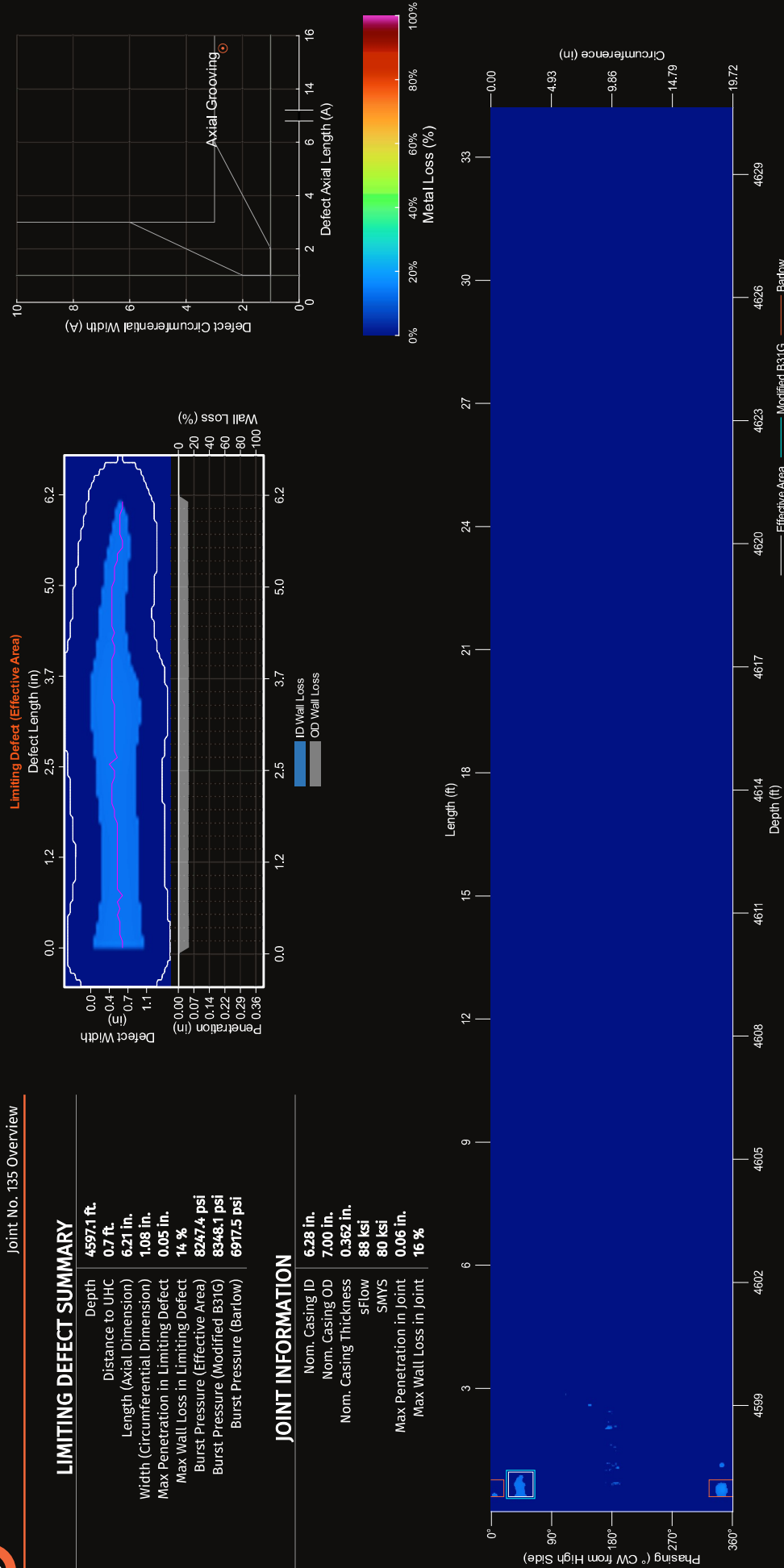
Joint No. 135 Overview

LIMITING DEFECT SUMMARY

Depth 4597.1 ft.
Distance to UHC 0.7 ft.
Length (Axial Dimension) 6.21 in.
Width (Circumferential Dimension) 1.08 in.
Max Penetration in Limiting Defect 0.05 in.
Max Wall Loss in Limiting Defect 14 %
Burst Pressure (Effective Area) 8247.4 psi
Burst Pressure (Modified B31G) 8348.1 psi
Burst Pressure (Barlow) 6917.5 psi

JOINT INFORMATION

Nom. Casing ID 6.28 in.
Nom. Casing OD 7.00 in.
Nom. Casing Thickness 0.362 in.
sFlow 88 ksi
SMYS 80 ksi
Max Penetration in Joint 0.06 in.
Max Wall Loss in Joint 16 %





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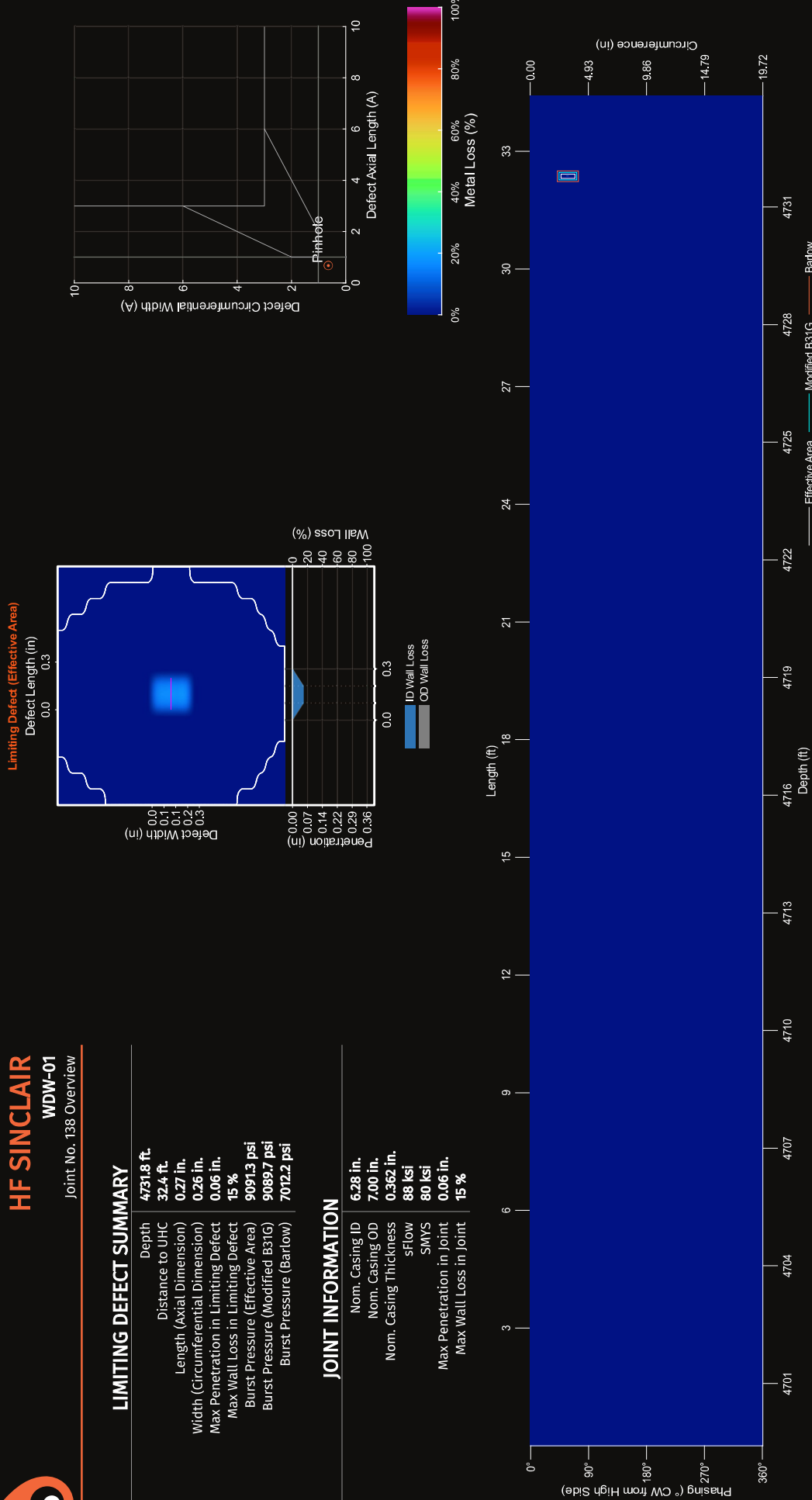
Joint No. 138 Overview

LIMITING DEFECT SUMMARY

Depth	4731.8 ft.
Distance to UHC	32.4 ft.
Length (Axial Dimension)	0.27 in.
Width (Circumferential Dimension)	0.26 in.
Max Penetration in Limiting Defect	0.06 in.
Max Wall Loss in Limiting Defect	15 %
Burst Pressure (Effective Area)	9091.3 psi
Burst Pressure (Modified B31G)	9089.7 psi
Burst Pressure (Barlow)	7072.2 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.06 in.
Max Wall Loss in Joint	15 %





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WDW-01

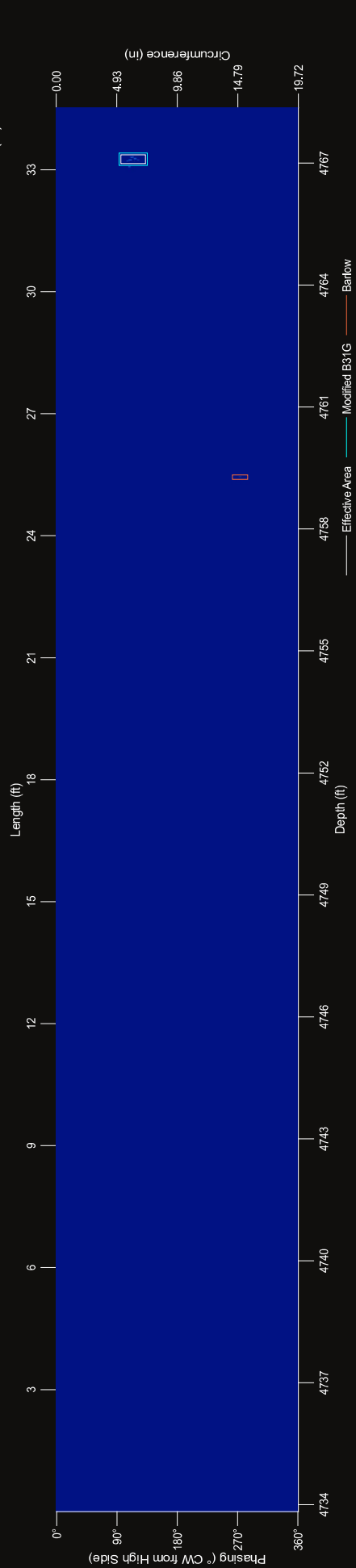
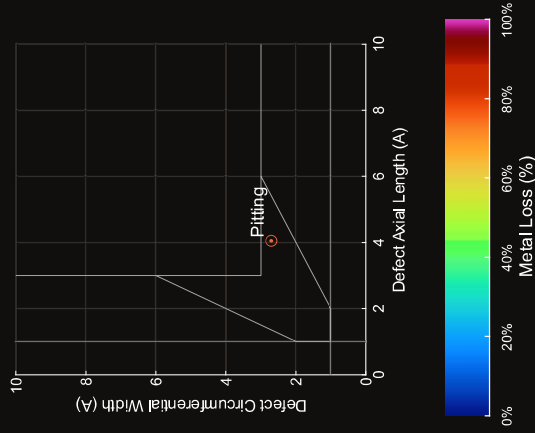
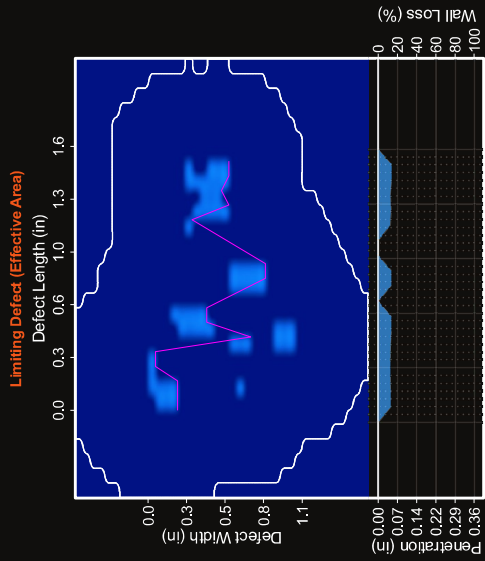
Joint No. 139 Overview

LIMITING DEFECT SUMMARY

Depth	4767.1 ft.
Distance to UHC	33.3 ft.
Length (Axial Dimension)	1.62 in.
Width (Circumferential Dimension)	1.08 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	14 %
Burst Pressure (Effective Area)	8871.4 psi
Burst Pressure (Modified B31G)	8839.6 psi
Burst Pressure (Barlow)	7073.2 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	15 %





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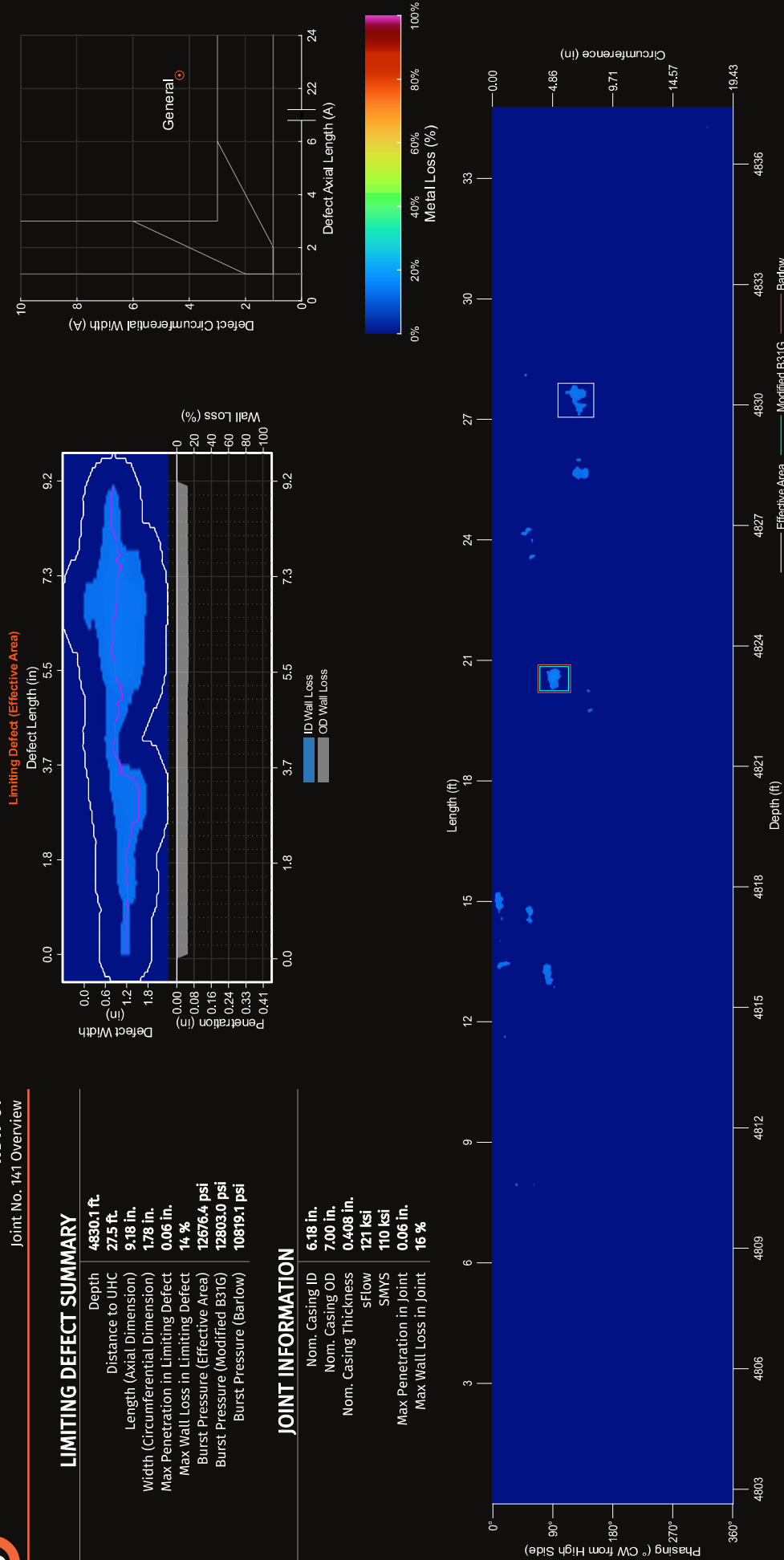
Joint No. 141 Overview

LIMITING DEFECT SUMMARY

Depth **4830.1 ft.**
 Distance to UHC **27.5 ft.**
 Length (Axial Dimension) **9.18 in.**
 Width (Circumferential Dimension) **1.78 in.**
 Max Penetration in Limiting Defect **0.06 in.**
 Max Wall Loss in Limiting Defect **14 %**
 Burst Pressure (Effective Area) **12676.4 psi**
 Burst Pressure (Modified B31G) **12803.0 psi**
 Burst Pressure (Barlow) **10819.1 psi**

JOINT INFORMATION

Nom. Casing ID **6.18 in.**
 Nom. Casing OD **7.00 in.**
 Nom. Casing Thickness **0.408 in.**
 sFlow **121 ksi**
 SMYS **110 ksi**
 Max Penetration in Joint **0.06 in.**
 Max Wall Loss in Joint **16 %**





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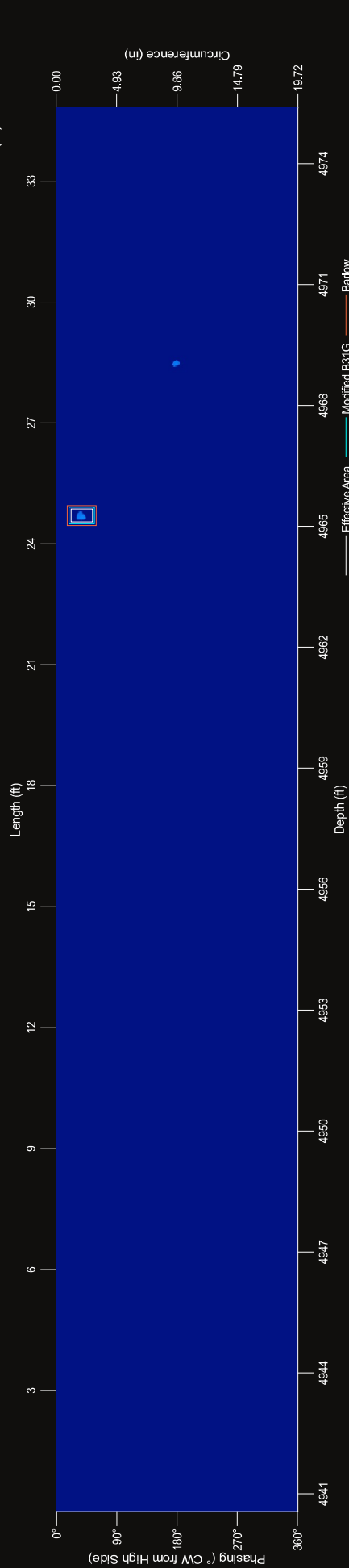
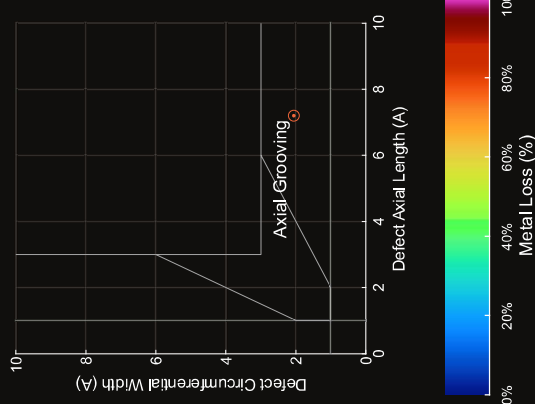
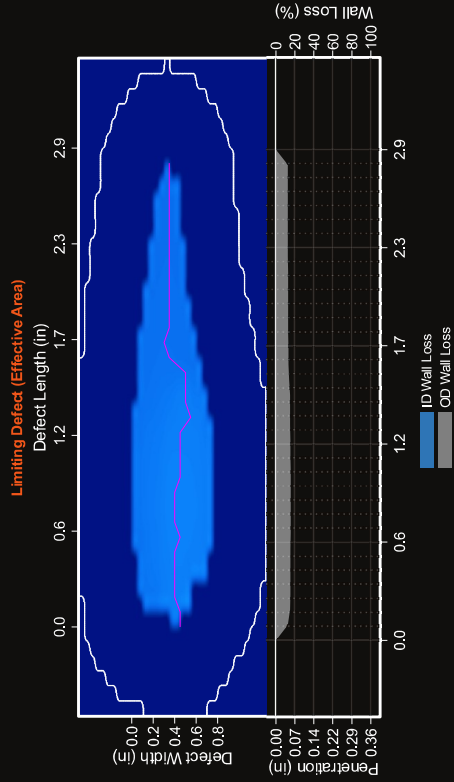
Joint No. 145 Overview

LIMITING DEFECT SUMMARY

Depth	4965.3 ft.
Distance to UHC	24.7 ft.
Length (Axial Dimension)	2.88 in.
Width (Circumferential Dimension)	0.82 in.
Max Penetration in Limiting Defect	0.06 in.
Max Wall Loss in Limiting Defect	16 %
Burst Pressure (Effective Area)	8520.5 psi
Burst Pressure (Modified B31G)	8550.5 psi
Burst Pressure (Barlow)	6990.4 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.06 in.
Max Wall Loss in Joint	16 %





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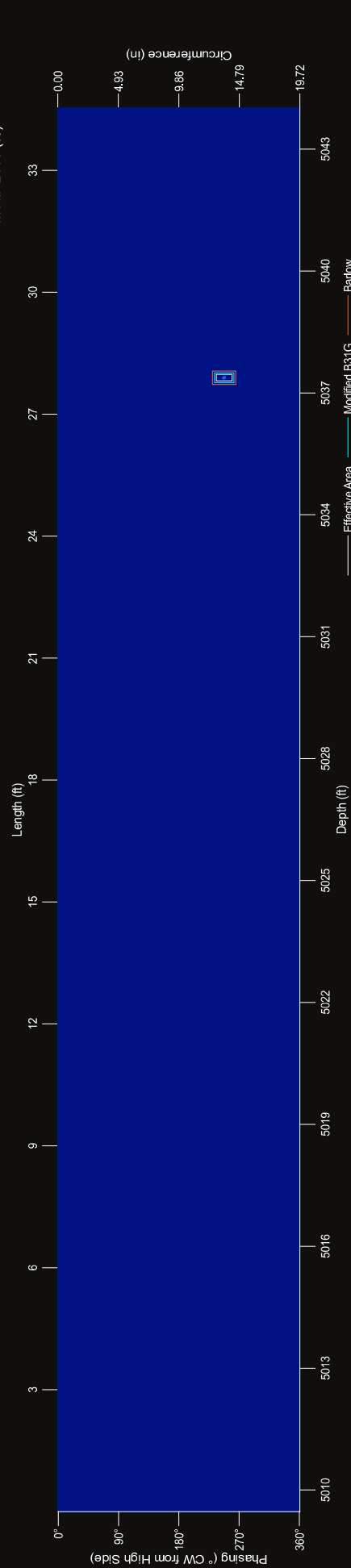
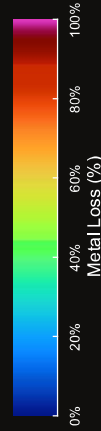
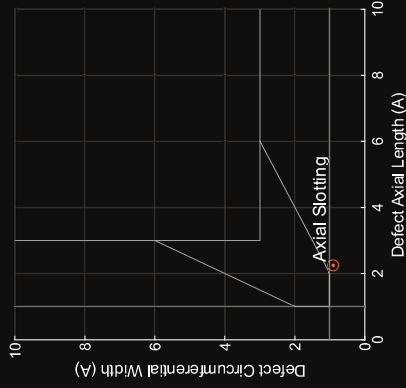
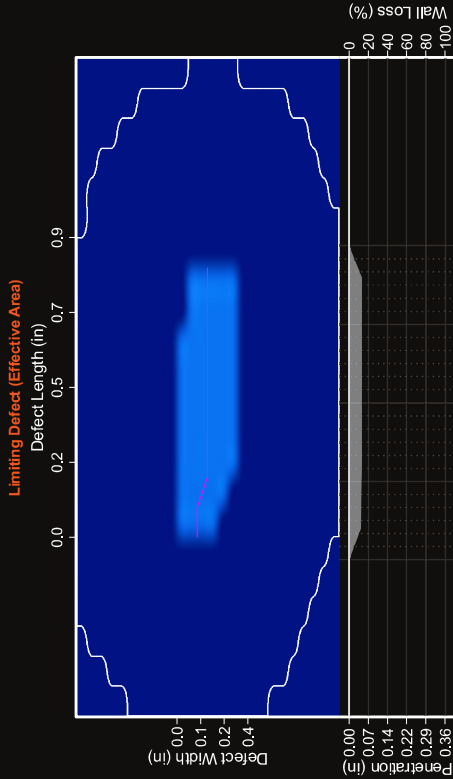
Joint No. 147 Overview

LIMITING DEFECT SUMMARY

Depth	5037.4 ft.
Distance to UHC	27.9 ft.
Length (Axial Dimension)	0.90 in.
Width (Circumferential Dimension)	0.36 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	13 %
Burst Pressure (Effective Area)	8988.9 psi
Burst Pressure (Modified B31G)	9000.1 psi
Burst Pressure (Barlow)	7158.2 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	13 %





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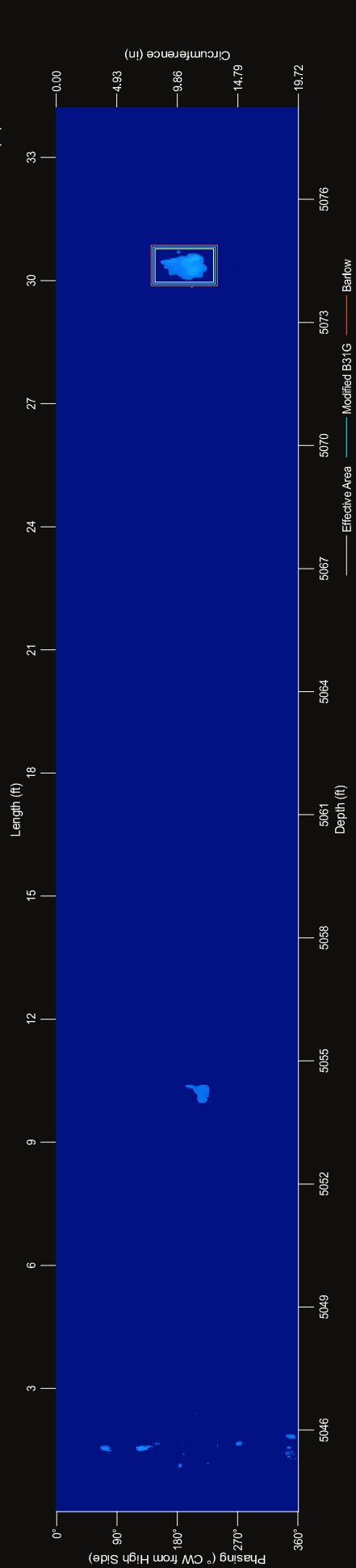
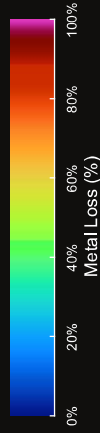
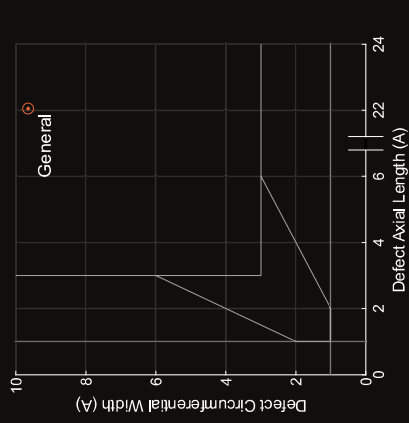
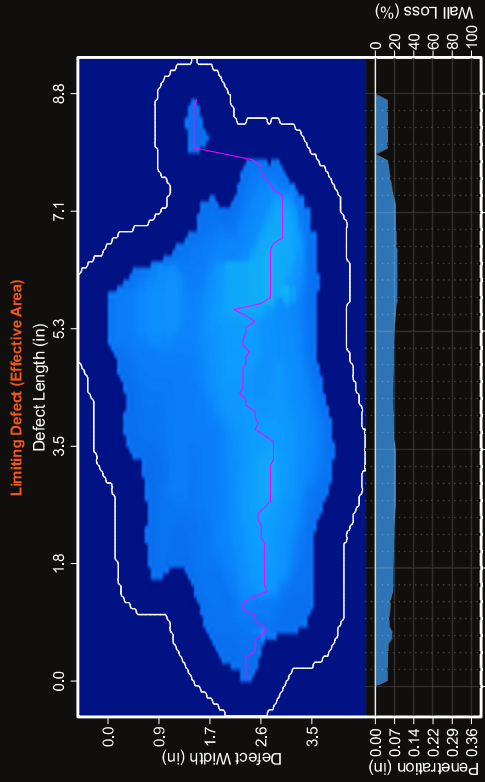
Joint No. 148 Overview

LIMITING DEFECT SUMMARY

Depth **5074.4 ft.**
 Distance to UHC **30.4 ft.**
 Length (Axial Dimension) **8.82 in.**
 Width (Circumferential Dimension) **3.86 in.**
 Max Penetration in Limiting Defect **0.08 in.**
 Max Wall Loss in Limiting Defect **23 %**
 Burst Pressure (Effective Area) **7783.6 psi**
 Burst Pressure (Modified B31G) **7678.1 psi**
 Burst Pressure (Barlow) **6361.3 psi**

JOINT INFORMATION

Nom. Casing ID **6.28 in.**
 Nom. Casing OD **7.00 in.**
 Nom. Casing Thickness **0.362 in.**
 sFlow **88 ksi**
 SMYS **80 ksi**
 Max Penetration in Joint **0.08 in.**
 Max Wall Loss in Joint **23 %**





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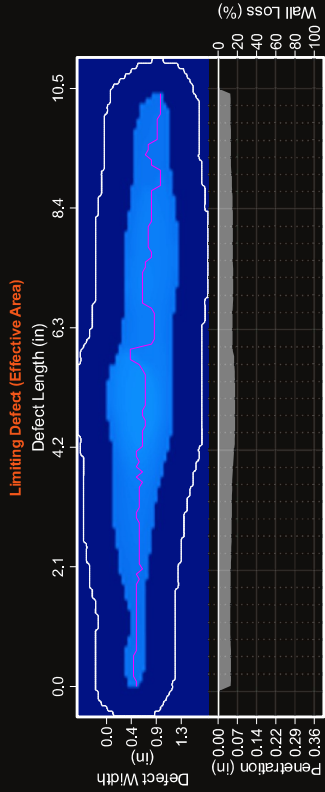
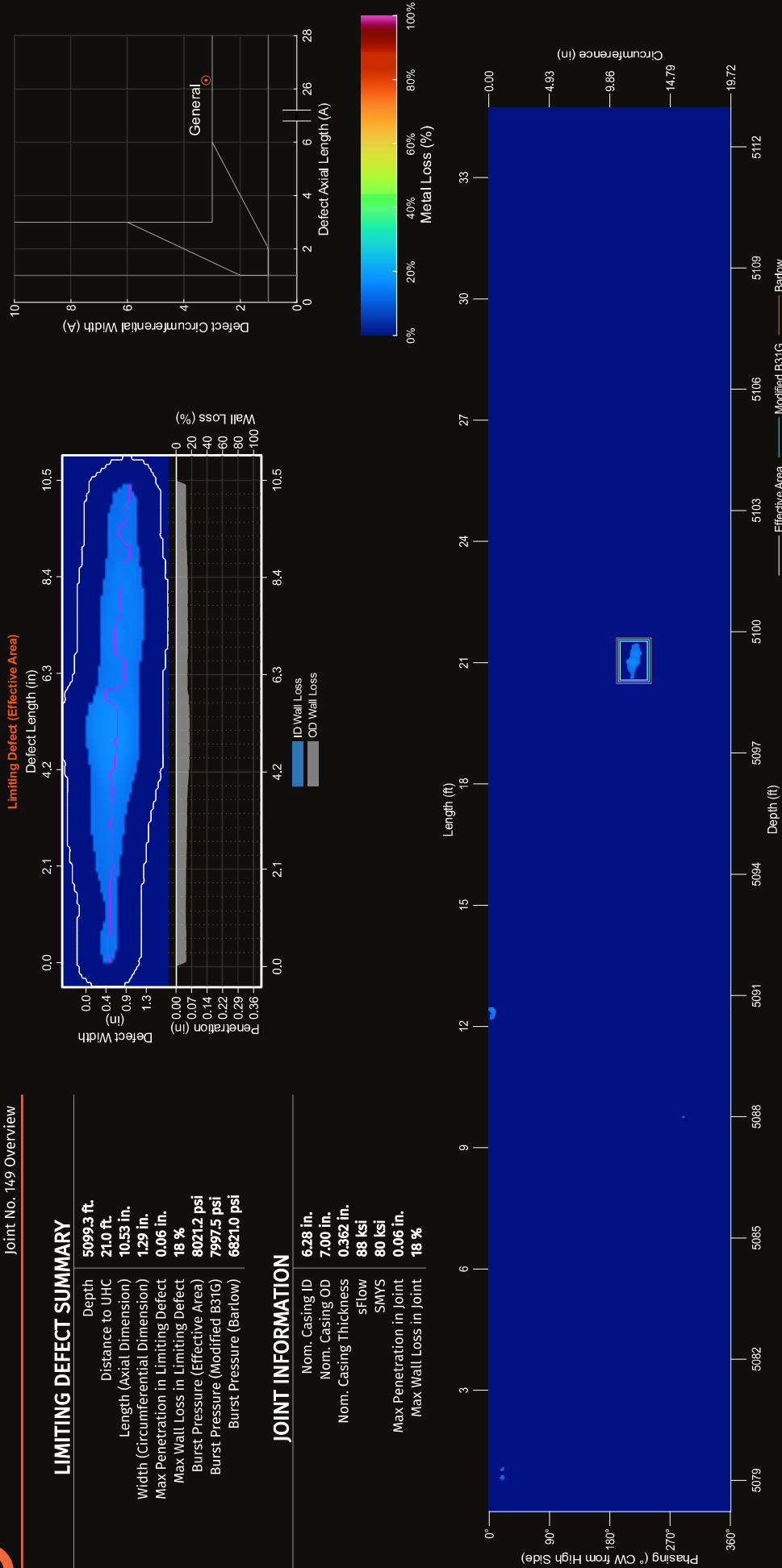
Joint No. 149 Overview

LIMITING DEFECT SUMMARY

Depth **5099.3 ft.**
 Distance to UHC **21.0 ft.**
 Length (Axial Dimension) **10.53 in.**
 Width (Circumferential Dimension) **1.29 in.**
 Max Penetration in Limiting Defect **0.06 in.**
 Max Wall Loss in Limiting Defect **18 %**
 Burst Pressure (Effective Area) **8021.2 psi**
 Burst Pressure (Modified B31G) **7997.5 psi**
 Burst Pressure (Barlow) **6821.0 psi**

JOINT INFORMATION

Nom. Casing ID **6.28 in.**
 Nom. Casing OD **7.00 in.**
 Nom. Casing Thickness **0.362 in.**
 sFlow **88 ksi**
 SMYS **80 ksi**
 Max Penetration in Joint **0.06 in.**
 Max Wall Loss in Joint **18 %**





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WDW-01

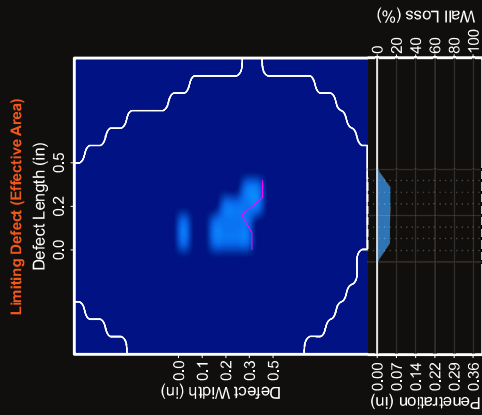
Joint No. 150 Overview

LIMITING DEFECT SUMMARY

Depth	5142.3 ft.
Distance to UHC	29.3 ft.
Length (Axial Dimension)	0.45 in.
Width (Circumferential Dimension)	0.46 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	14 %
Burst Pressure (Effective Area)	9072.6 psi
Burst Pressure (Modified B31G)	9072.7 psi
Burst Pressure (Barlow)	7134.7 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	14 %



Limiting Defect (Effective Area)

Defect Length (in)

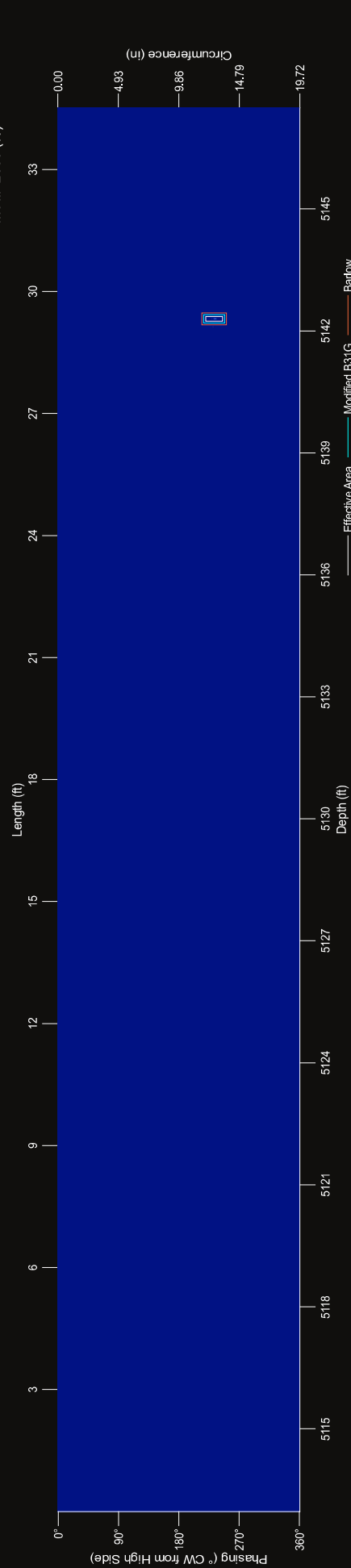
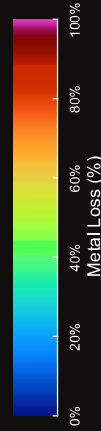
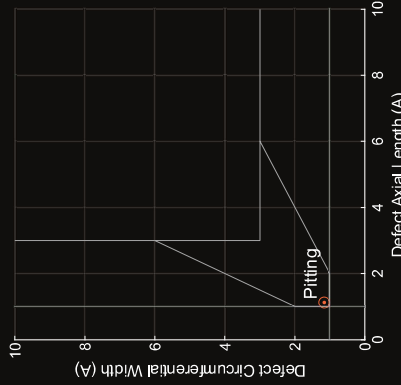
Defect Width (in)

Penetration (in)

Wall Loss (%)

ID Wall Loss

OD Wall Loss





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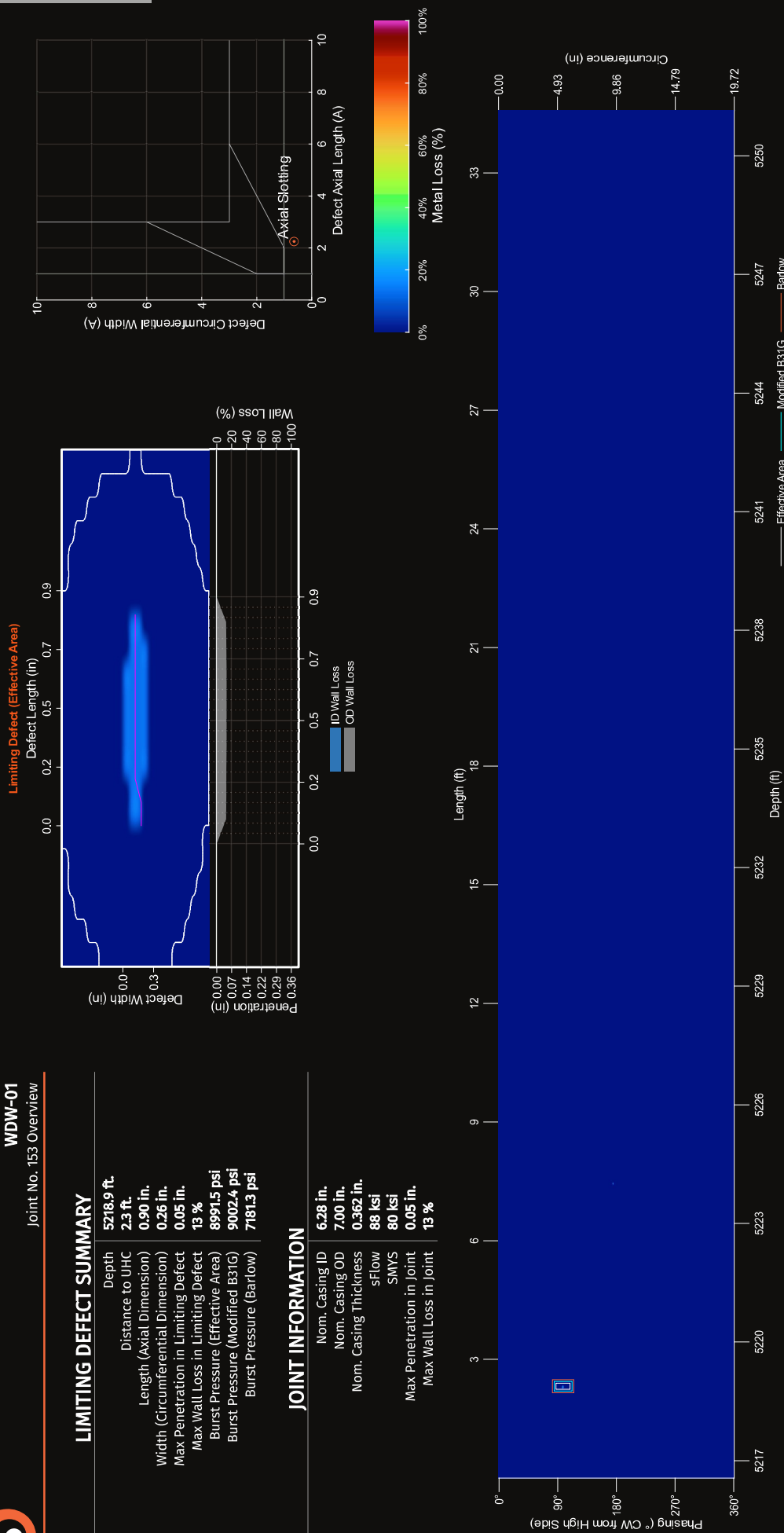
Joint No. 153 Overview

LIMITING DEFECT SUMMARY

Depth	5218.9 ft.
Distance to UHC	2.3 ft.
Length (Axial Dimension)	0.90 in.
Width (Circumferential Dimension)	0.26 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	13 %
Burst Pressure (Effective Area)	8991.5 psi
Burst Pressure (Modified B31G)	9002.4 psi
Burst Pressure (Barlow)	7181.3 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	13 %





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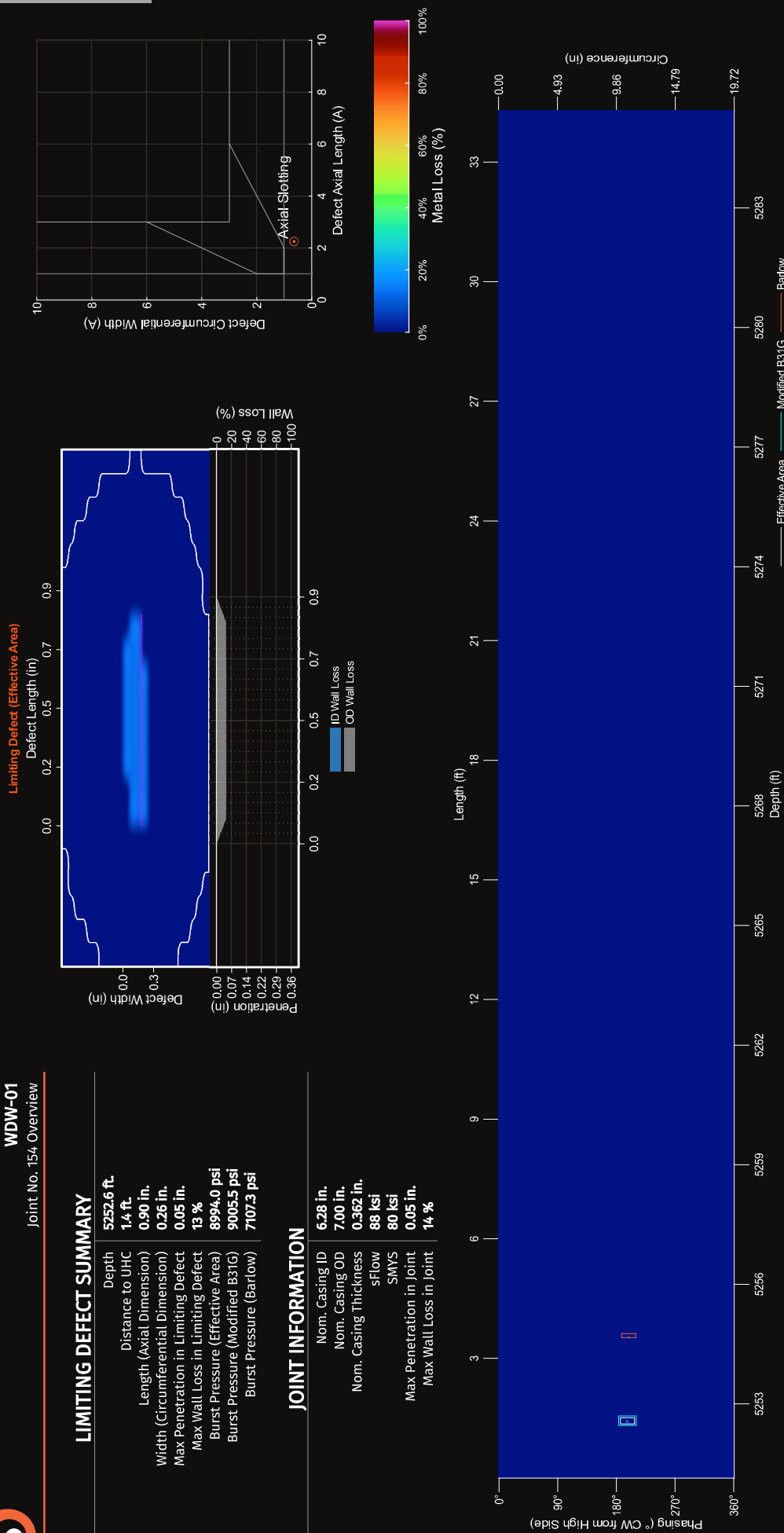
Joint No. 154 Overview

LIMITING DEFECT SUMMARY

Depth **5252.6 ft.**
 Distance to UHC **1.4 ft.**
 Length (Axial Dimension) **0.90 in.**
 Width (Circumferential Dimension) **0.26 in.**
 Max Penetration in Limiting Defect **0.05 in.**
 Max Wall Loss in Limiting Defect **13 %**
 Burst Pressure (Effective Area) **8994.0 psi**
 Burst Pressure (Modified B31G) **9005.5 psi**
 Burst Pressure (Barlow) **7107.3 psi**

JOINT INFORMATION

Nom. Casing ID **6.28 in.**
 Nom. Casing OD **7.00 in.**
 Nom. Casing Thickness **0.362 in.**
 sFlow **88 ksi**
 SMYS **80 ksi**
 Max Penetration in Joint **0.05 in.**
 Max Wall Loss in Joint **14 %**





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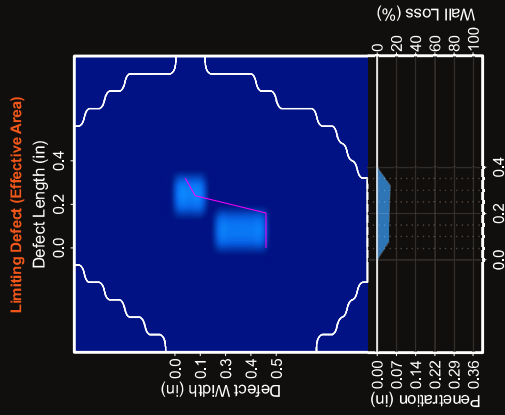
Joint No. 155 Overview

LIMITING DEFECT SUMMARY

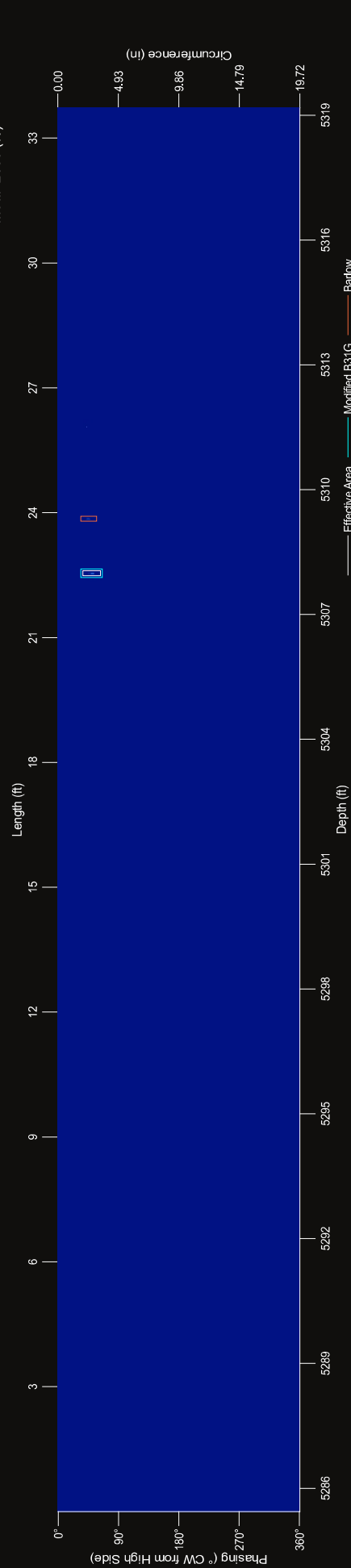
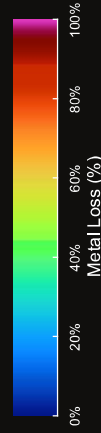
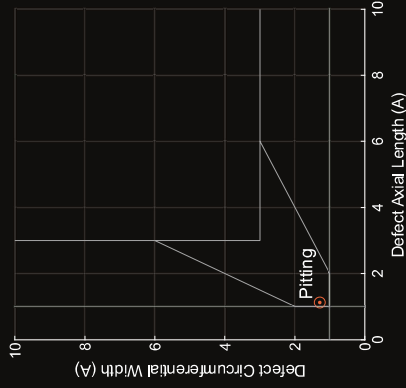
Depth	5308.0 ft
Distance to UHC	22.5 ft
Length (Axial Dimension)	0.45 in.
Width (Circumferential Dimension)	0.51 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	14 %
Burst Pressure (Effective Area)	9073.8 psi
Burst Pressure (Modified B31G)	9072.3 psi
Burst Pressure (Barlow)	6900.1 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.06 in.
Max Wall Loss in Joint	17 %



Limiting Defect (Effective Area)



Effective Area Modified B31G Barlow



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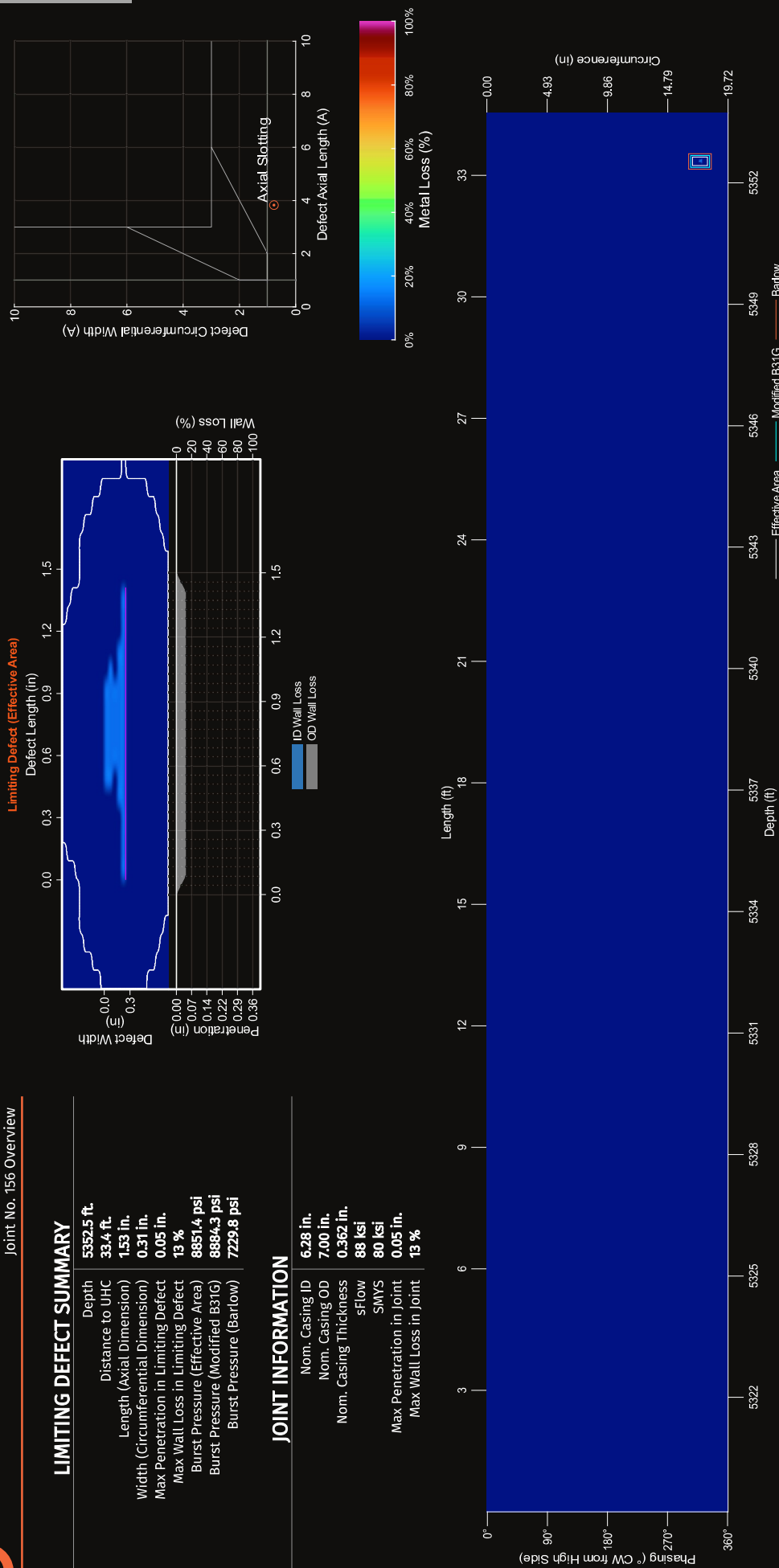
Joint No. 156 Overview

LIMITING DEFECT SUMMARY

Depth	5352.5 ft.
Distance to UHC	33.4 ft.
Length (Axial Dimension)	1.53 in.
Width (Circumferential Dimension)	0.31 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	13 %
Burst Pressure (Effective Area)	8851.4 psi
Burst Pressure (Modified B31G)	8894.3 psi
Burst Pressure (Barlow)	7229.8 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	13 %





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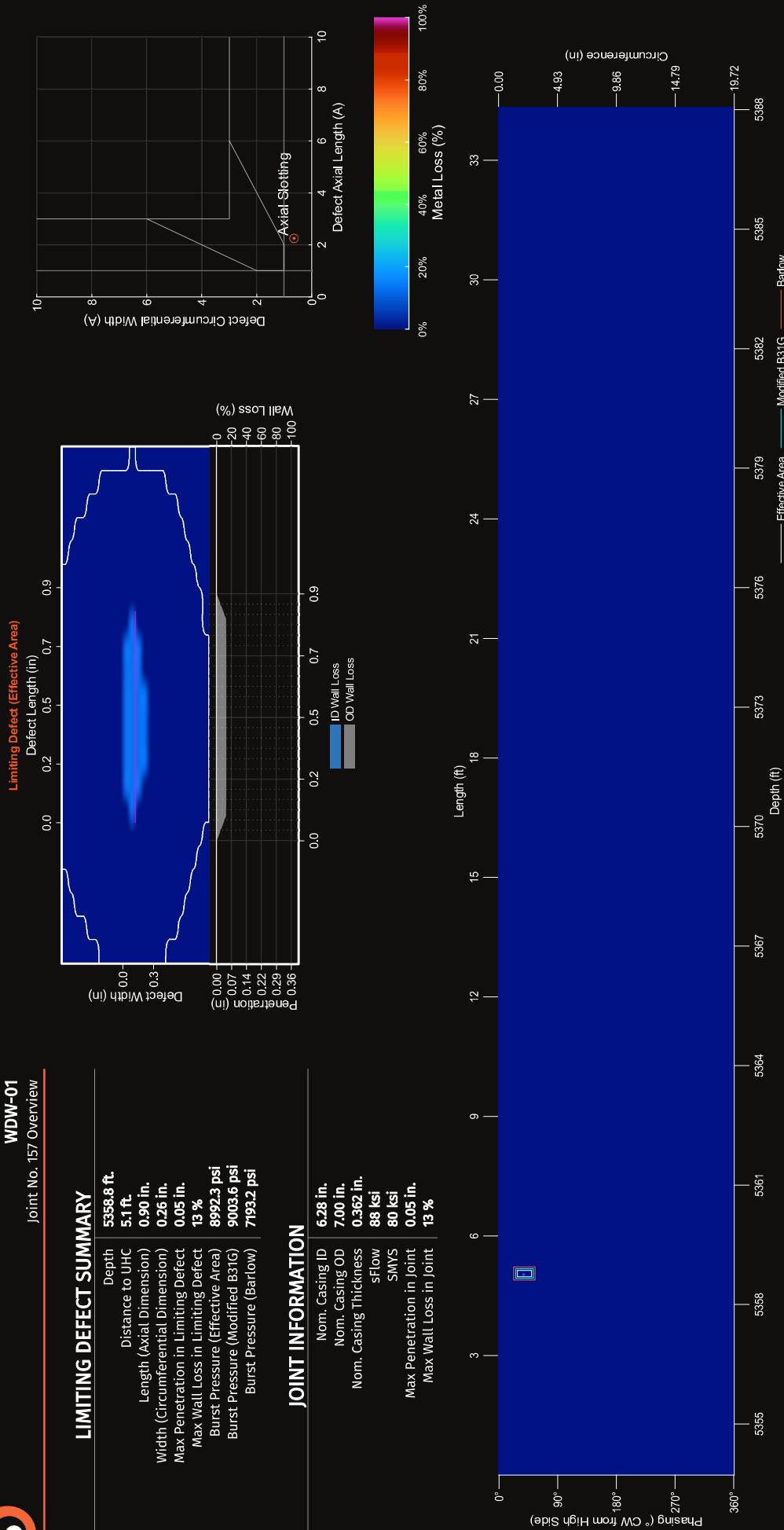
Joint No. 157 Overview

LIMITING DEFECT SUMMARY

Depth **5358.8 ft.**
 Distance to UHC **5.1 ft.**
 Length (Axial Dimension) **0.90 in.**
 Width (Circumferential Dimension) **0.26 in.**
 Max Penetration in Limiting Defect **0.05 in.**
 Max Wall Loss in Limiting Defect **13 %**
 Burst Pressure (Effective Area) **8992.3 psi**
 Burst Pressure (Modified B31G) **9003.6 psi**
 Burst Pressure (Barlow) **7193.2 psi**

JOINT INFORMATION

Nom. Casing ID **6.28 in.**
 Nom. Casing OD **7.00 in.**
 Nom. Casing Thickness **0.362 in.**
 sFlow **88 ksi**
 SMYS **80 ksi**
 Max Penetration in Joint **0.05 in.**
 Max Wall Loss in Joint **13 %**





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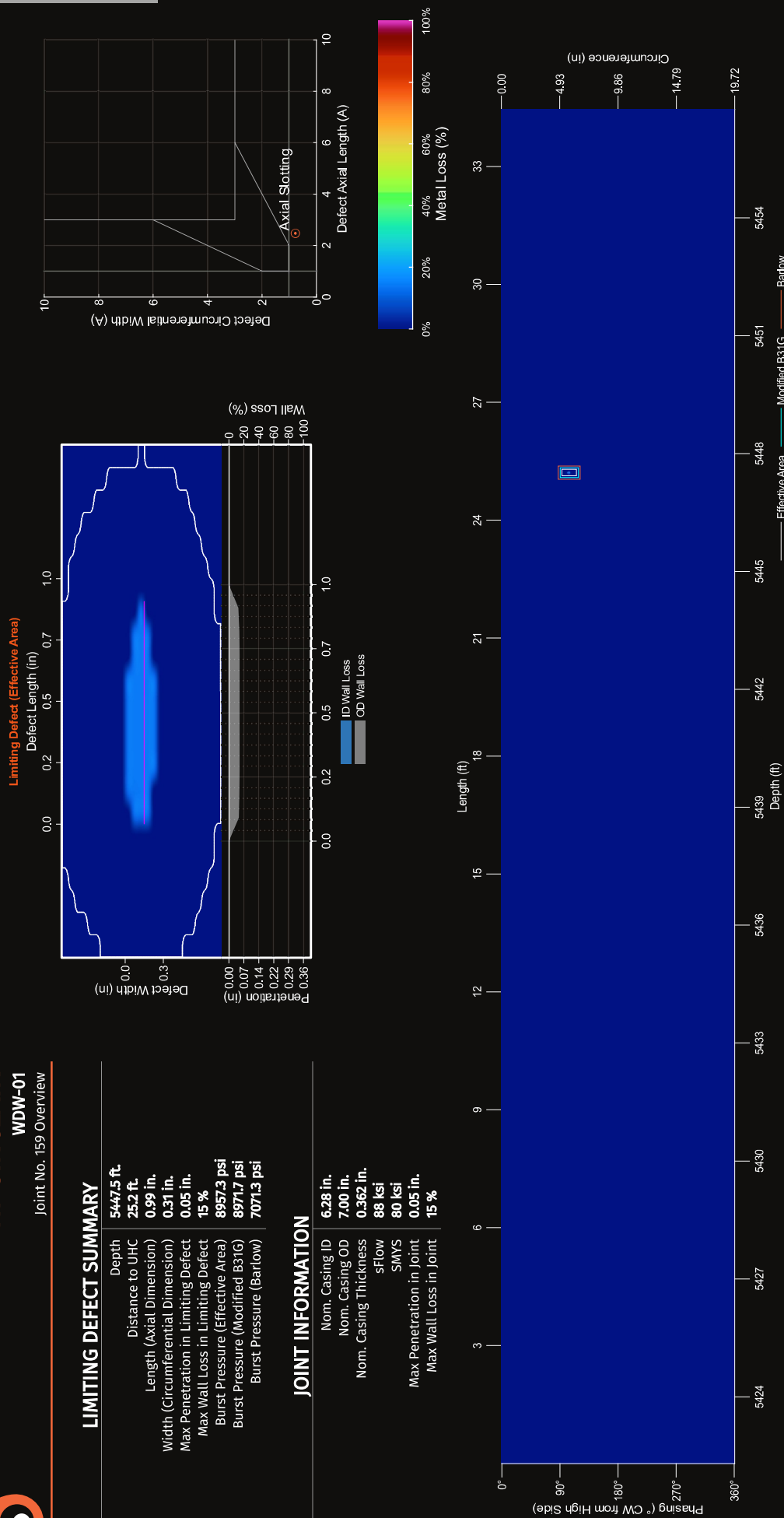
Joint No. 159 Overview

LIMITING DEFECT SUMMARY

Depth	5447.5 ft.
Distance to UHC	25.2 ft.
Length (Axial Dimension)	0.99 in.
Width (Circumferential Dimension)	0.31 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	15 %
Burst Pressure (Effective Area)	8957.3 psi
Burst Pressure (Modified B31G)	8971.7 psi
Burst Pressure (Barlow)	7071.3 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	15 %





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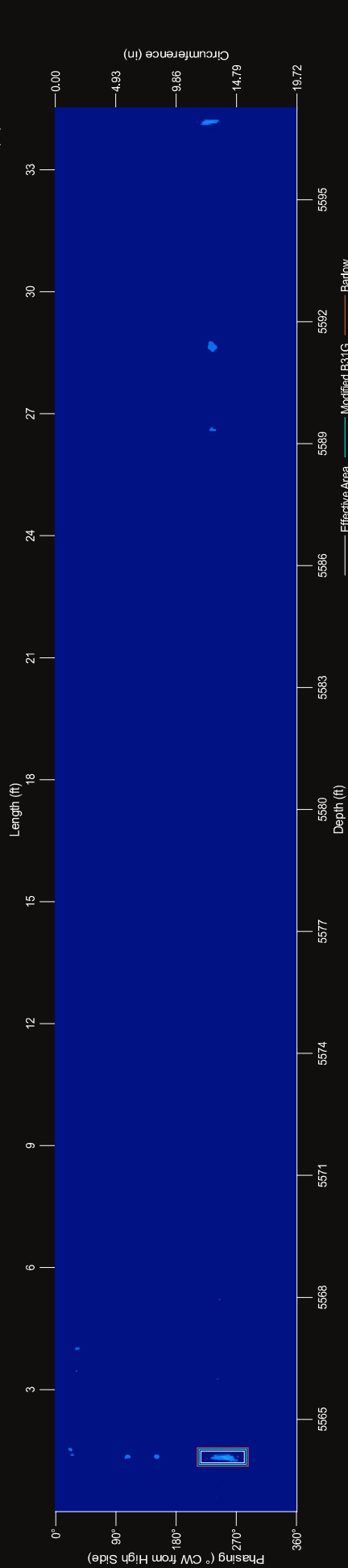
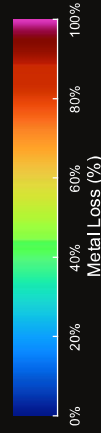
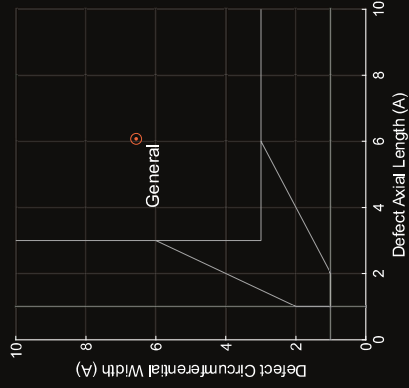
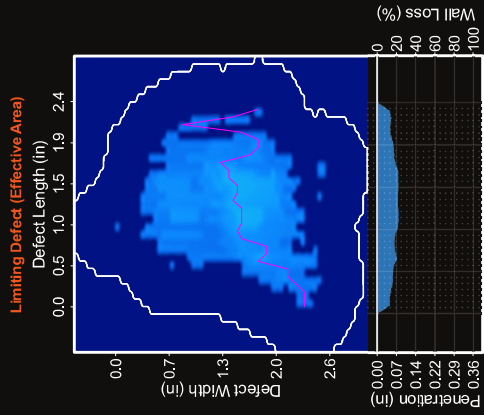
Joint No. 163 Overview

LIMITING DEFECT SUMMARY

Depth	5564.1 ft.
Distance to UHC	1.3 ft.
Length (Axial Dimension)	2.43 in.
Width (Circumferential Dimension)	2.63 in.
Max Penetration in Limiting Defect	0.08 in.
Max Wall Loss in Limiting Defect	22 %
Burst Pressure (Effective Area)	8450.3 psi
Burst Pressure (Modified B31G)	8394.5 psi
Burst Pressure (Barlow)	6429.6 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.08 in.
Max Wall Loss in Joint	22 %





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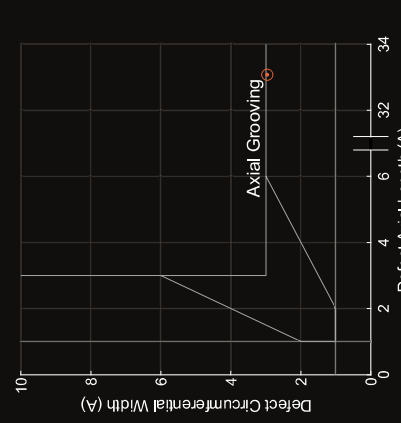
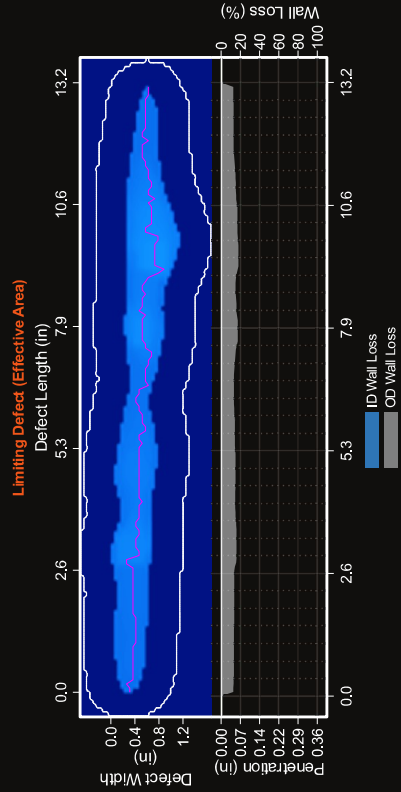
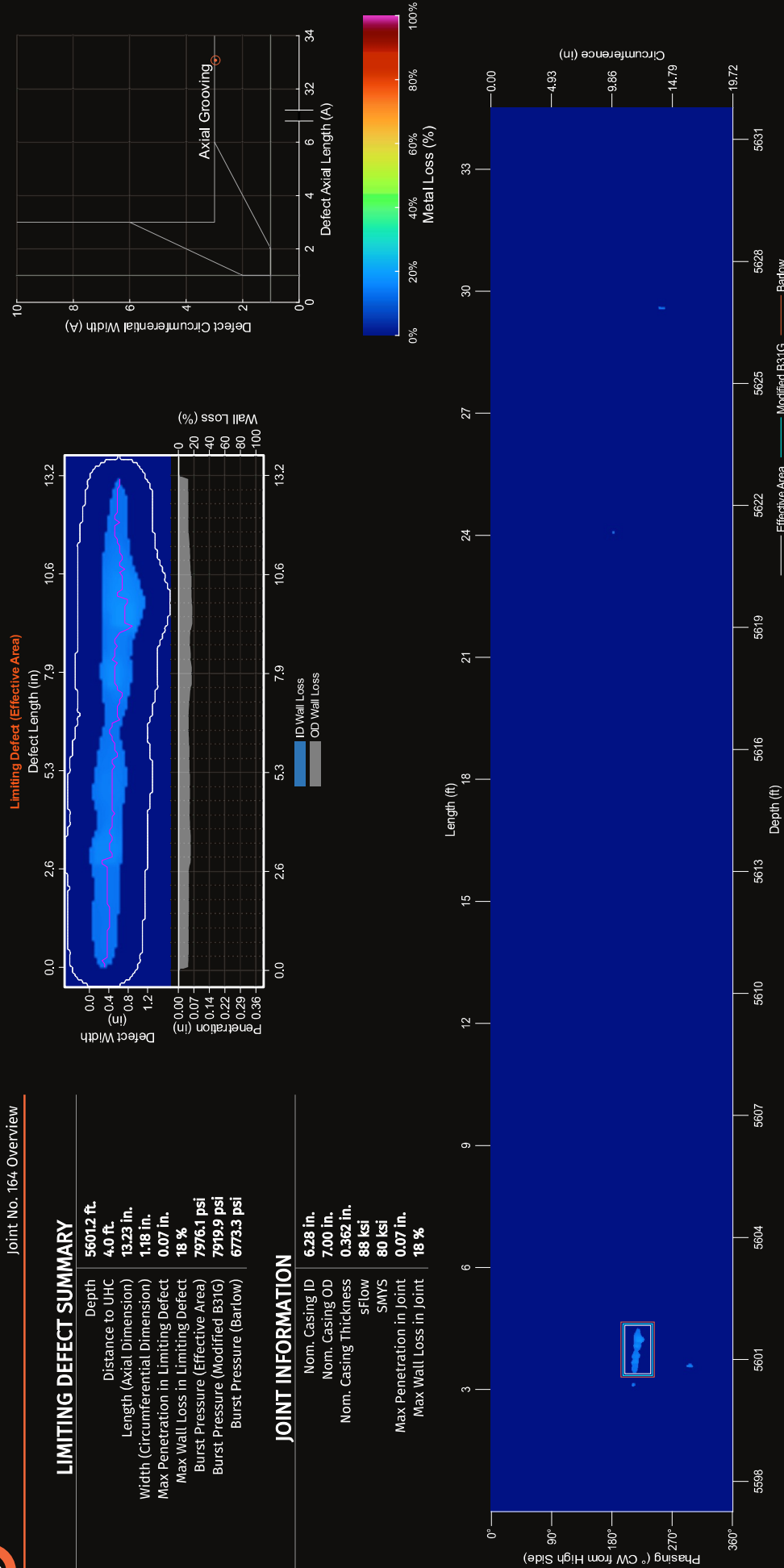
Joint No. 164 Overview

LIMITING DEFECT SUMMARY

Depth	5601.2 ft.
Distance to UHC	4.0 ft.
Length (Axial Dimension)	13.23 in.
Width (Circumferential Dimension)	1.18 in.
Max Penetration in Limiting Defect	0.07 in.
Max Wall Loss in Limiting Defect	18 %
Burst Pressure (Effective Area)	7976.1 psj
Burst Pressure (Modified B31G)	7919.9 psi
Burst Pressure (Barlow)	6773.3 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.07 in.
Max Wall Loss in Joint	18 %





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WDW-01

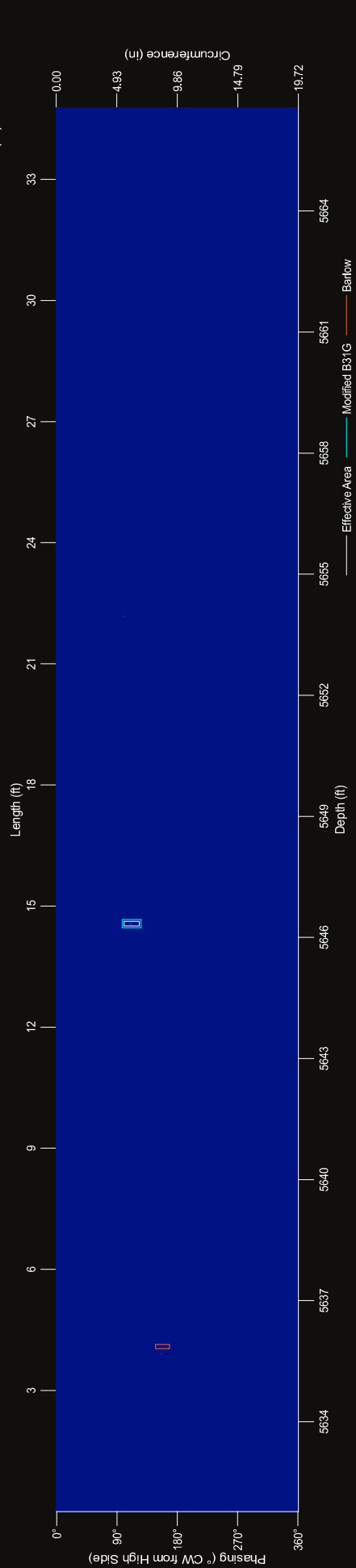
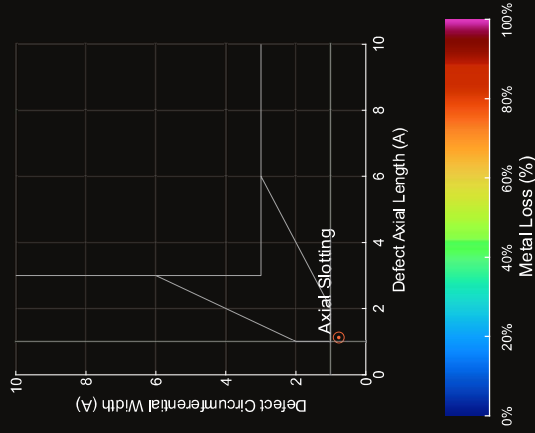
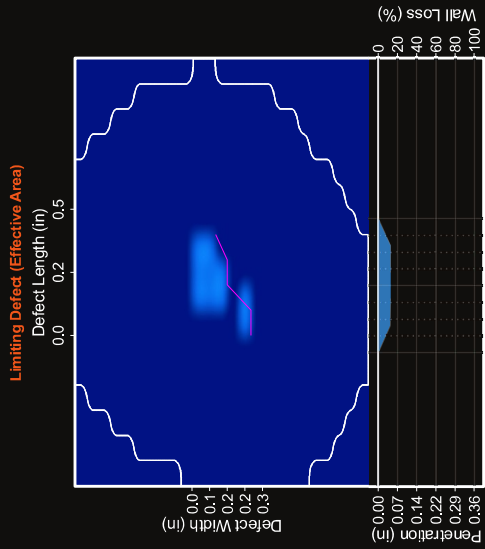
Joint No. 165 Overview

LIMITING DEFECT SUMMARY

Depth	5646.3 ft.
Distance to UHC	14.6 ft.
Length (Axial Dimension)	0.45 in.
Width (Circumferential Dimension)	0.31 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	13 %
Burst Pressure (Effective Area)	9073.6 psi
Burst Pressure (Modified B31G)	9074.0 psi
Burst Pressure (Barlow)	7144.2 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	14 %





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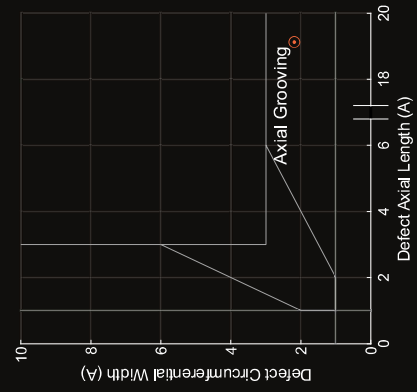
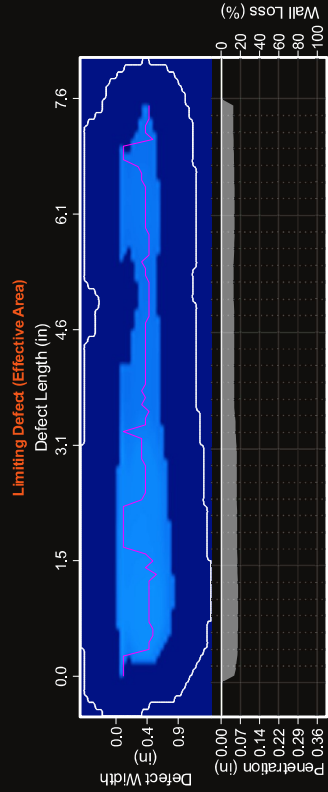
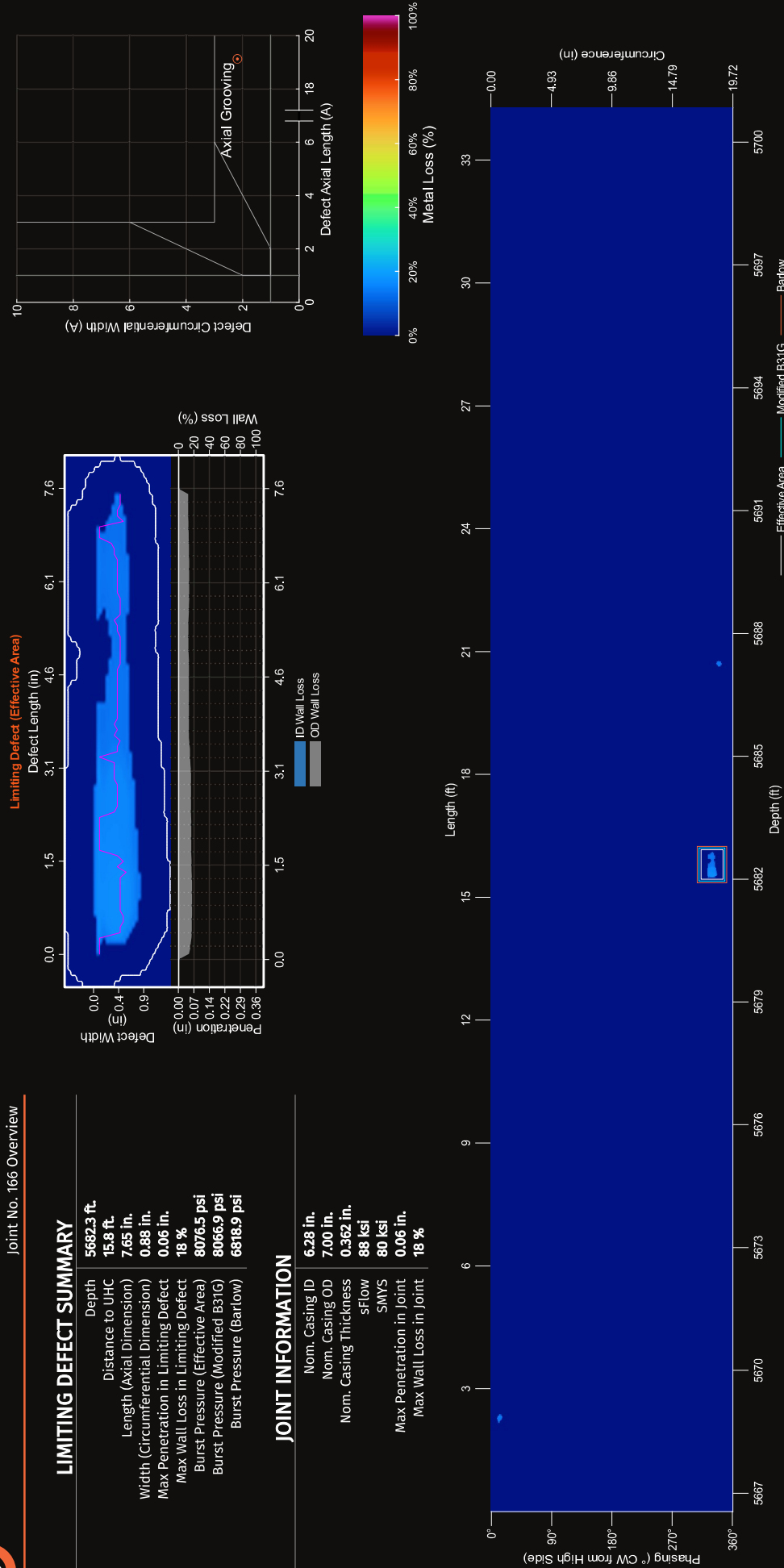
Joint No. 166 Overview

LIMITING DEFECT SUMMARY

Depth	5682.3 ft.
Distance to UHC	15.8 ft.
Length (Axial Dimension)	7.65 in.
Width (Circumferential Dimension)	0.88 in.
Max Penetration in Limiting Defect	0.06 in.
Max Wall Loss in Limiting Defect	18 %
Burst Pressure (Effective Area)	8076.5 psi
Burst Pressure (Modified B31G)	8066.9 psi
Burst Pressure (Barlow)	6818.9 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.06 in.
Max Wall Loss in Joint	18 %





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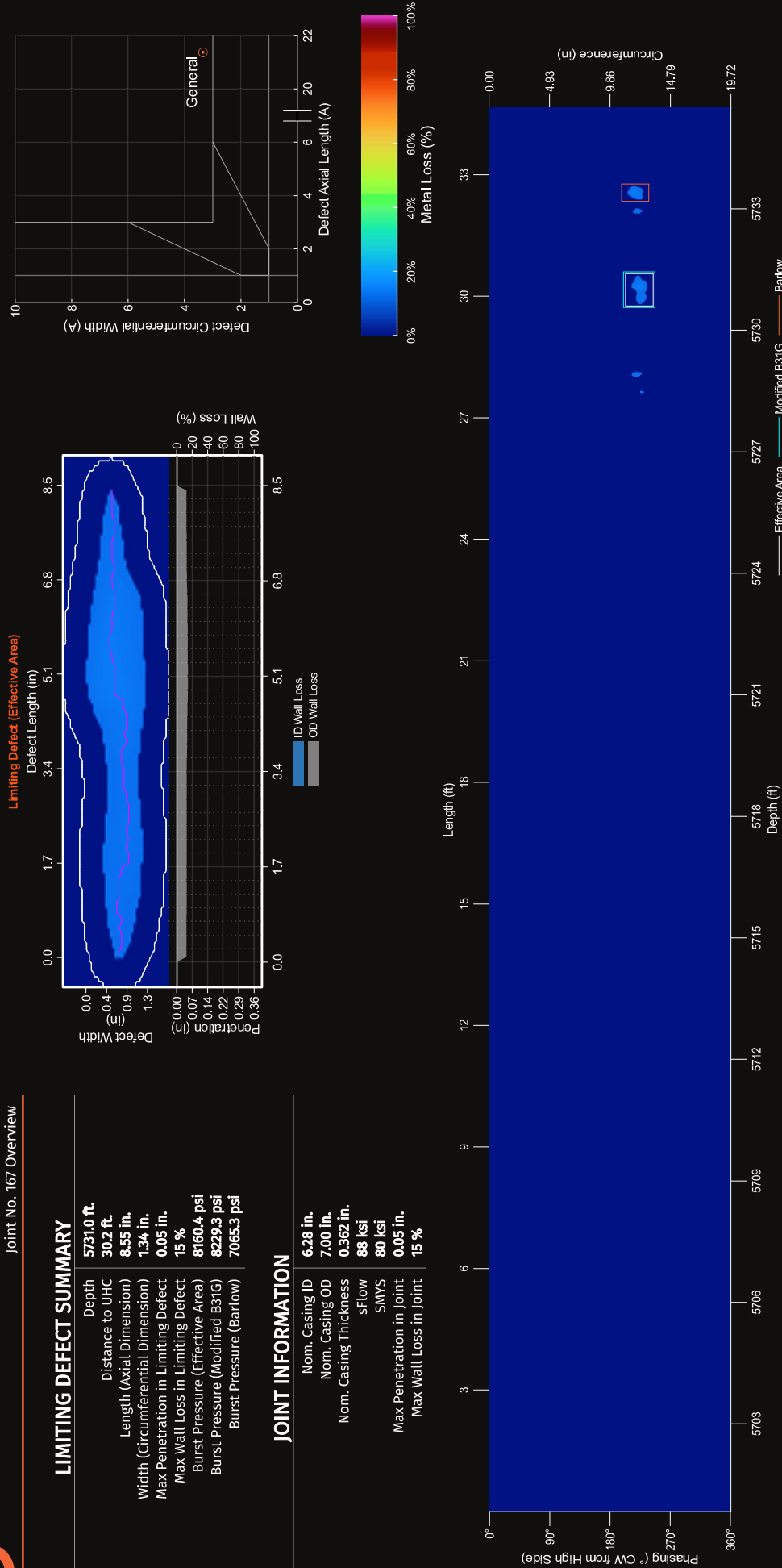
Joint No. 167 Overview

LIMITING DEFECT SUMMARY

Depth	5731.0 ft.
Distance to UHC	30.2 ft.
Length (Axial Dimension)	8.55 in.
Width (Circumferential Dimension)	1.34 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	15 %
Burst Pressure (Effective Area)	8160.4 psi
Burst Pressure (Modified B31G)	8229.3 psi
Burst Pressure (Barlow)	7065.3 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	15 %





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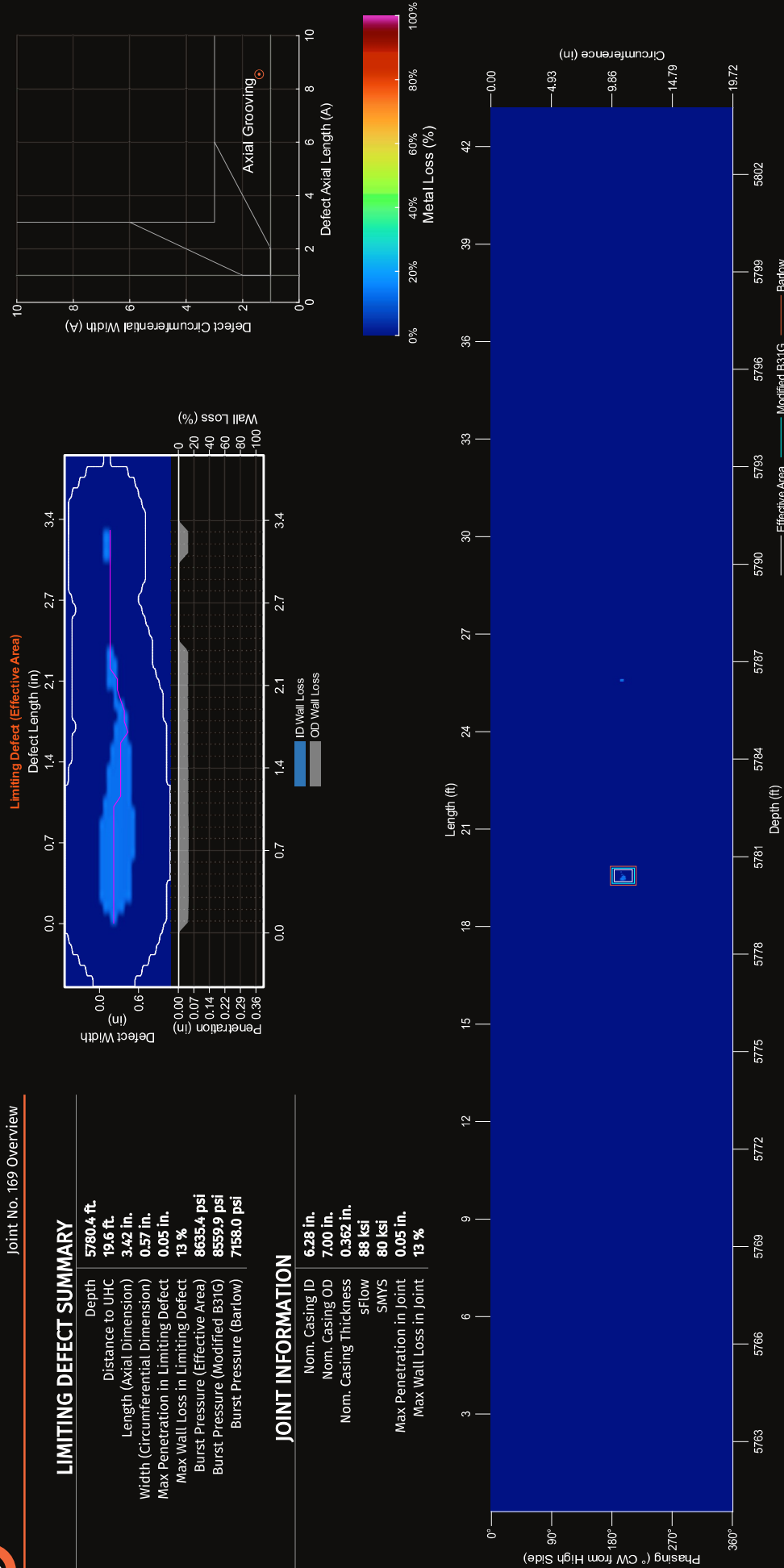
Joint No. 169 Overview

LIMITING DEFECT SUMMARY

Depth	5780.4 ft.
Distance to UHC	19.6 ft.
Length (Axial Dimension)	3.42 in.
Width (Circumferential Dimension)	0.57 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	13 %
Burst Pressure (Effective Area)	8635.4 psi
Burst Pressure (Modified B31G)	8559.9 psi
Burst Pressure (Barlow)	7158.0 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	13 %





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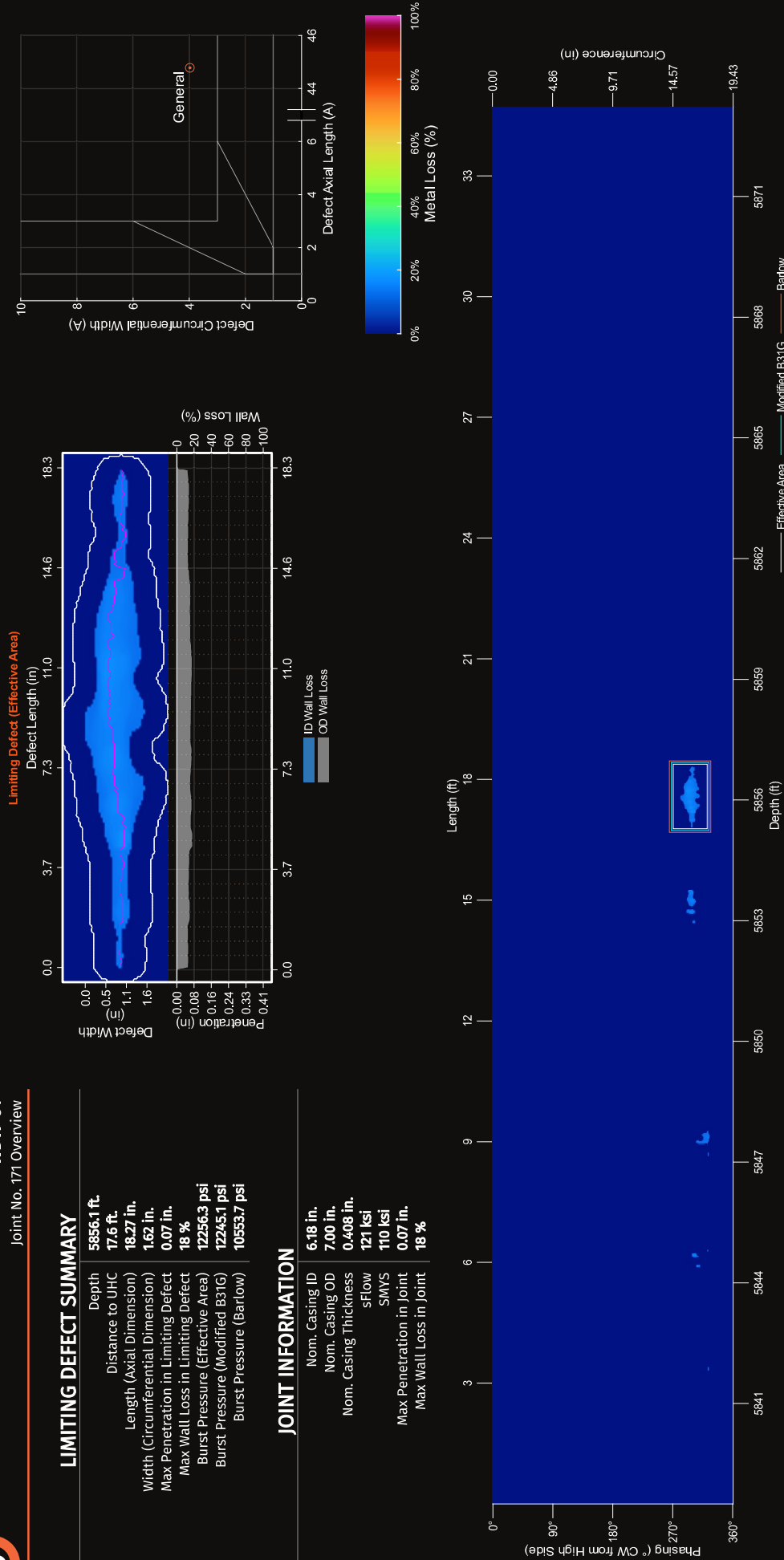
Joint No. 171 Overview

LIMITING DEFECT SUMMARY

Depth **5856.1 ft.**
 Distance to UHC **17.6 ft.**
 Length (Axial Dimension) **18.27 in.**
 Width (Circumferential Dimension) **1.62 in.**
 Max Penetration in Limiting Defect **0.07 in.**
 Max Wall Loss in Limiting Defect **18 %**
 Burst Pressure (Effective Area) **12256.3 psi**
 Burst Pressure (Modified B31G) **12245.1 psi**
 Burst Pressure (Barlow) **10553.7 psi**

JOINT INFORMATION

Nom. Casing ID **6.18 in.**
 Nom. Casing OD **7.00 in.**
 Nom. Casing Thickness **0.408 in.**
 sFlow **121 ksi**
 SMYS **110 ksi**
 Max Penetration in Joint **0.07 in.**
 Max Wall Loss in Joint **18 %**





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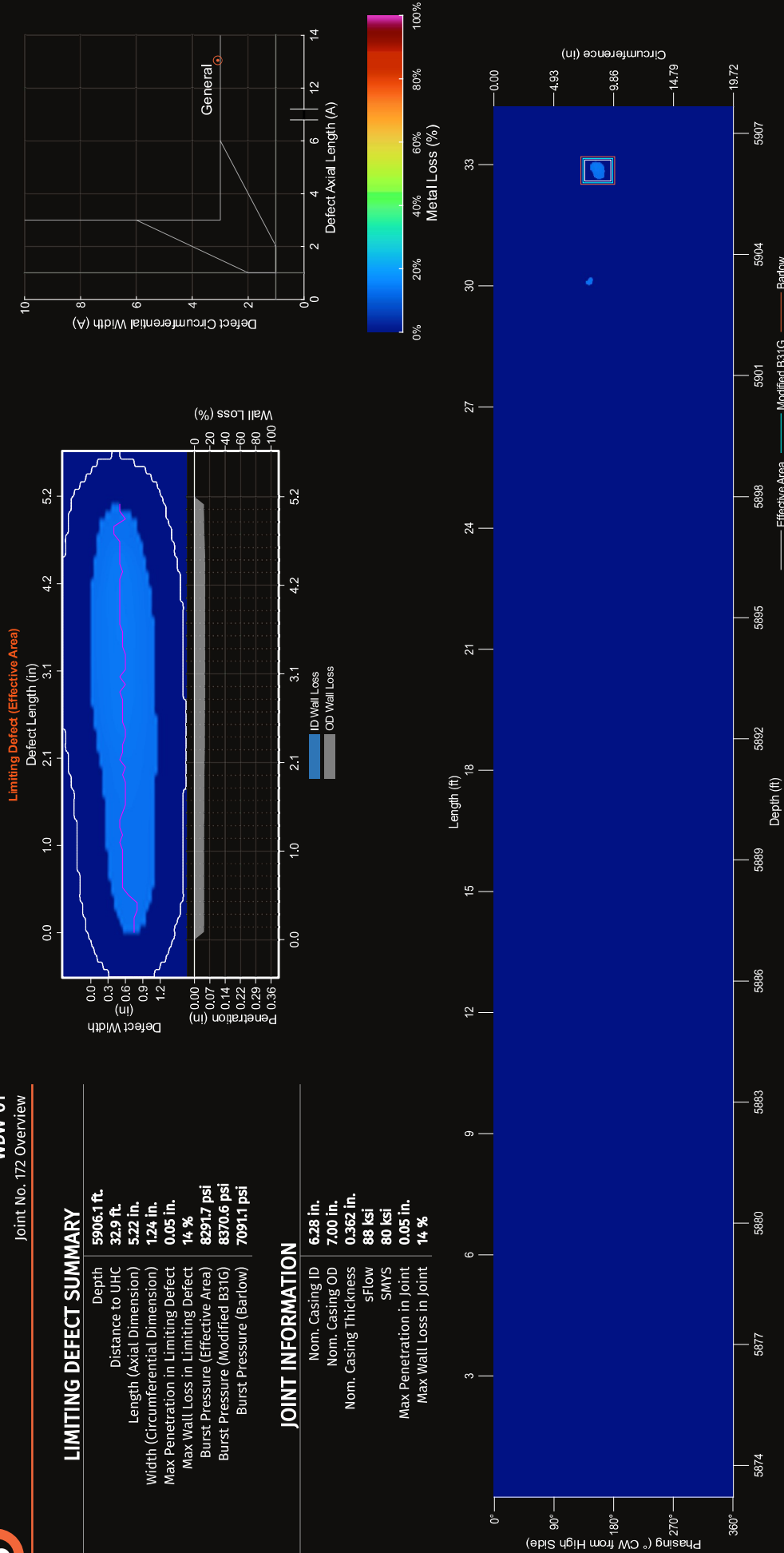
Joint No. 172 Overview

LIMITING DEFECT SUMMARY

Depth	5906.1 ft.
Distance to UHC	32.9 ft.
Length (Axial Dimension)	5.22 in.
Width (Circumferential Dimension)	1.24 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	14 %
Burst Pressure (Effective Area)	8291.7 psi
Burst Pressure (Modified B31G)	8370.6 psi
Burst Pressure (Barlow)	7091.1 psi

JOINT INFORMATION

Nom. Casing ID	6.28 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.362 in.
sFlow	88 ksi
SMYS	80 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	14 %





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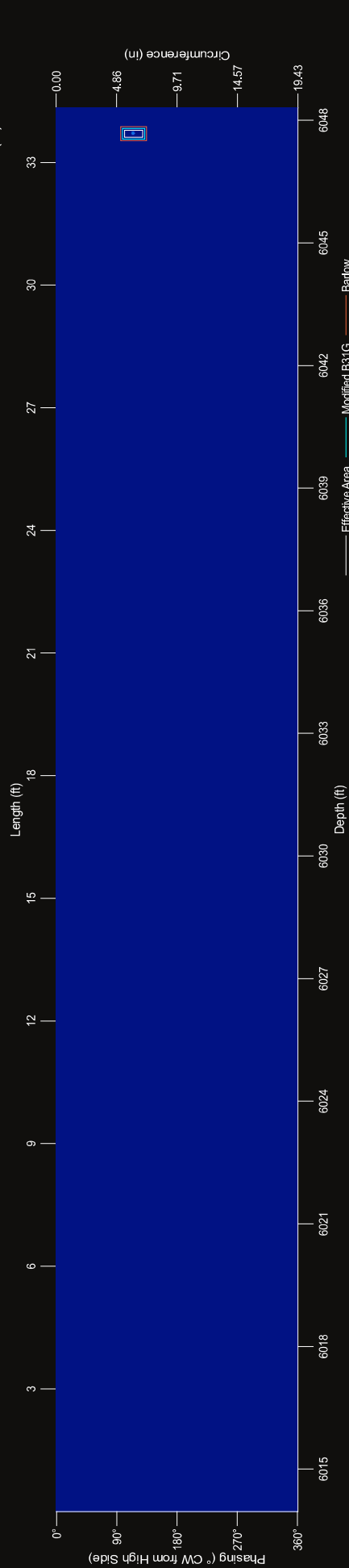
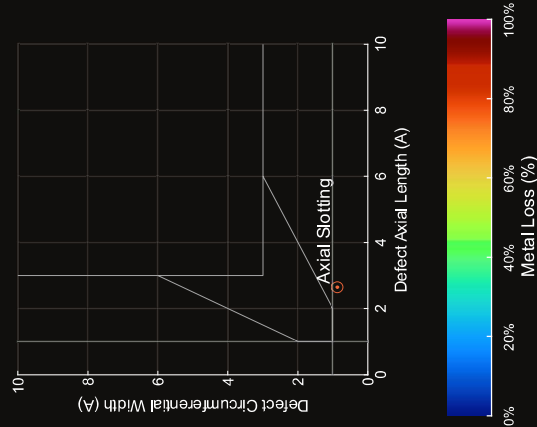
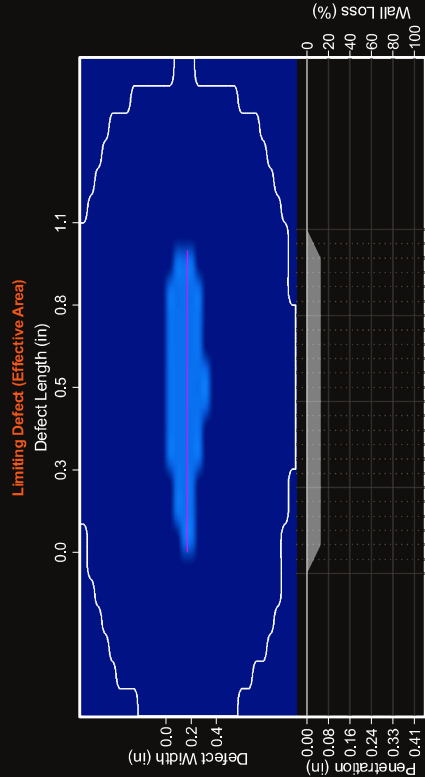
Joint No. 176 Overview

LIMITING DEFECT SUMMARY

Depth	6047.7 ft.
Distance to UHC	33.7 ft.
Length (Axial Dimension)	1.08 in.
Width (Circumferential Dimension)	0.36 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	13 %
Burst Pressure (Effective Area)	13895.9 psi
Burst Pressure (Modified B31G)	13920.5 psi
Burst Pressure (Barlow)	11167.2 psi

JOINT INFORMATION

Nom. Casing ID	6.18 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.408 in.
sFlow	121 ksi
SMYS	110 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	13 %





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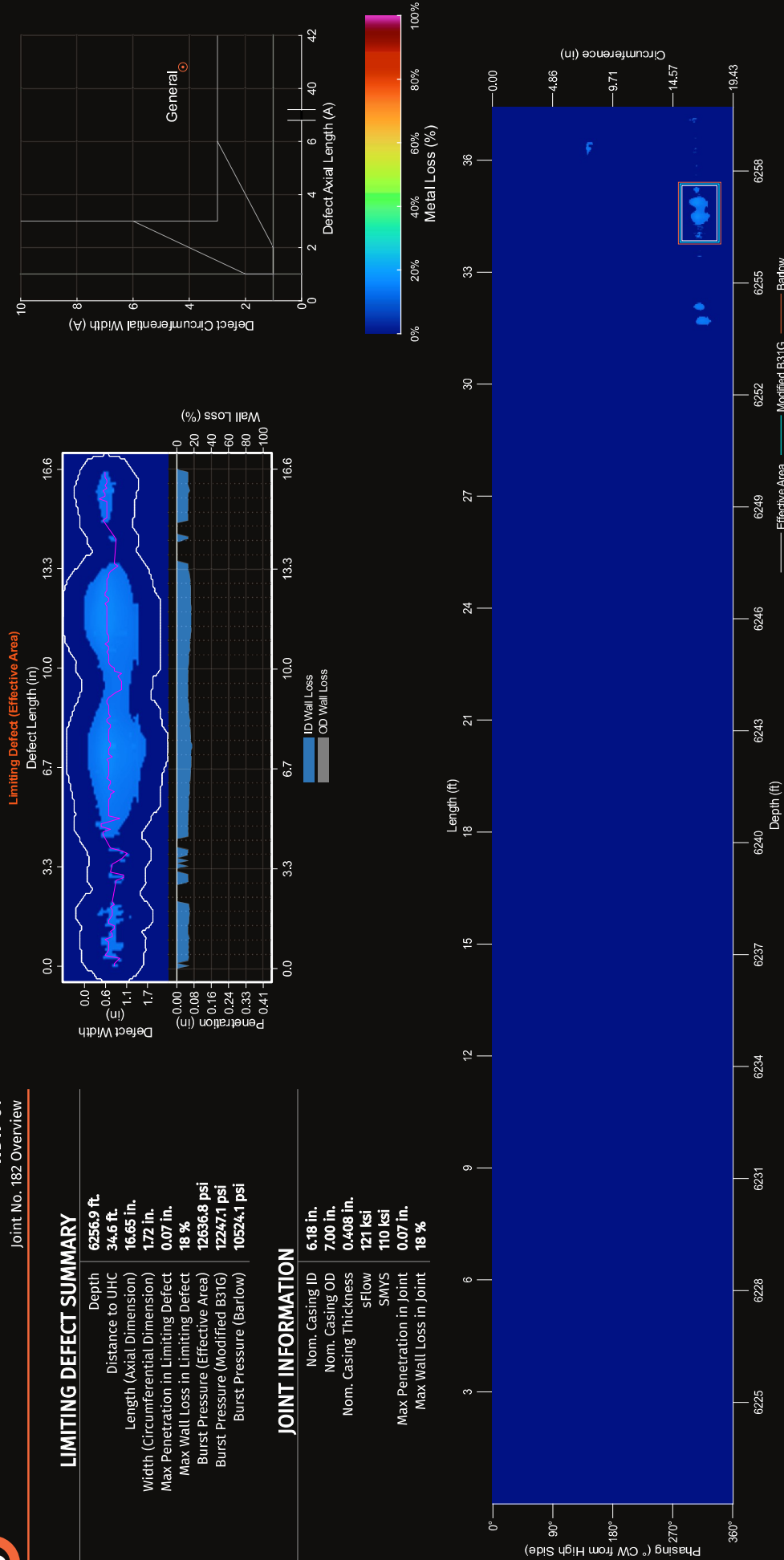
Joint No. 182 Overview

LIMITING DEFECT SUMMARY

Depth **6256.9 ft.**
 Distance to UHC **34.6 ft.**
 Length (Axial Dimension) **16.65 in.**
 Width (Circumferential Dimension) **1.72 in.**
 Max Penetration in Limiting Defect **0.07 in.**
 Max Wall Loss in Limiting Defect **18 %**
 Burst Pressure (Effective Area) **12636.8 psi**
 Burst Pressure (Modified B31G) **12247.1 psi**
 Burst Pressure (Barlow) **10524.1 psi**

JOINT INFORMATION

Nom. Casing ID **6.18 in.**
 Nom. Casing OD **7.00 in.**
 Nom. Casing Thickness **0.408 in.**
 sFlow **121 ksi**
 SMYS **110 ksi**
 Max Penetration in Joint **0.07 in.**
 Max Wall Loss in Joint **18 %**





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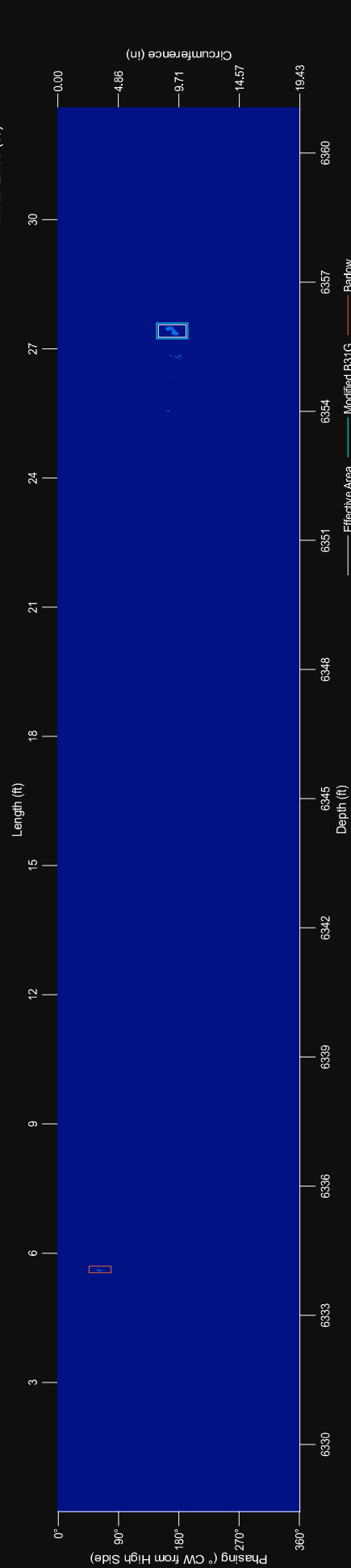
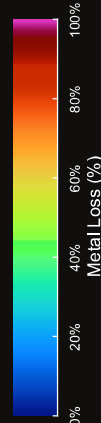
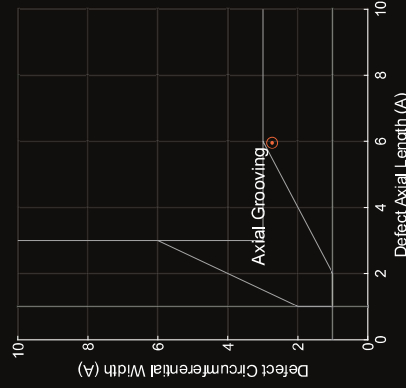
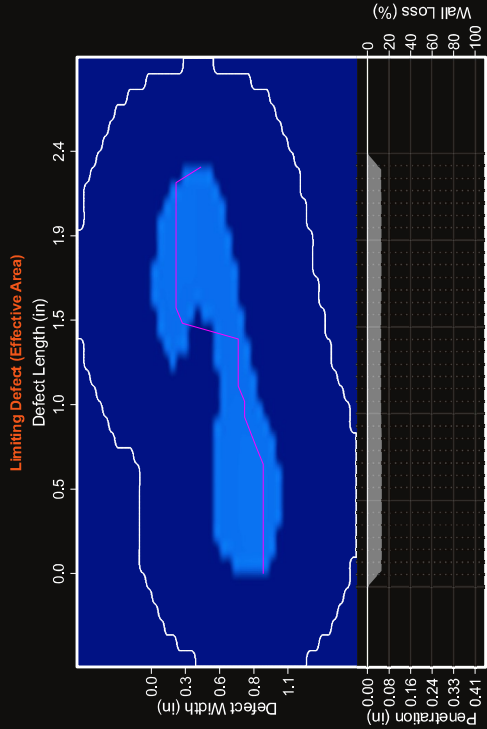
Joint No. 185 Overview

LIMITING DEFECT SUMMARY

Depth	6355.9 ft.
Distance to UHC	27.4 ft.
Length (Axial Dimension)	2.43 in.
Width (Circumferential Dimension)	1.12 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	13%
Burst Pressure (Effective Area)	13444.3 psi
Burst Pressure (Modified B31G)	13526.5 psi
Burst Pressure (Barlow)	10870.7 psi

JOINT INFORMATION

Nom. Casing ID	6.18 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.408 in.
sFlow	121 ksi
SMYS	110 ksi
Max Penetration in Joint	0.06 in.
Max Wall Loss in Joint	15%





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WDW-01

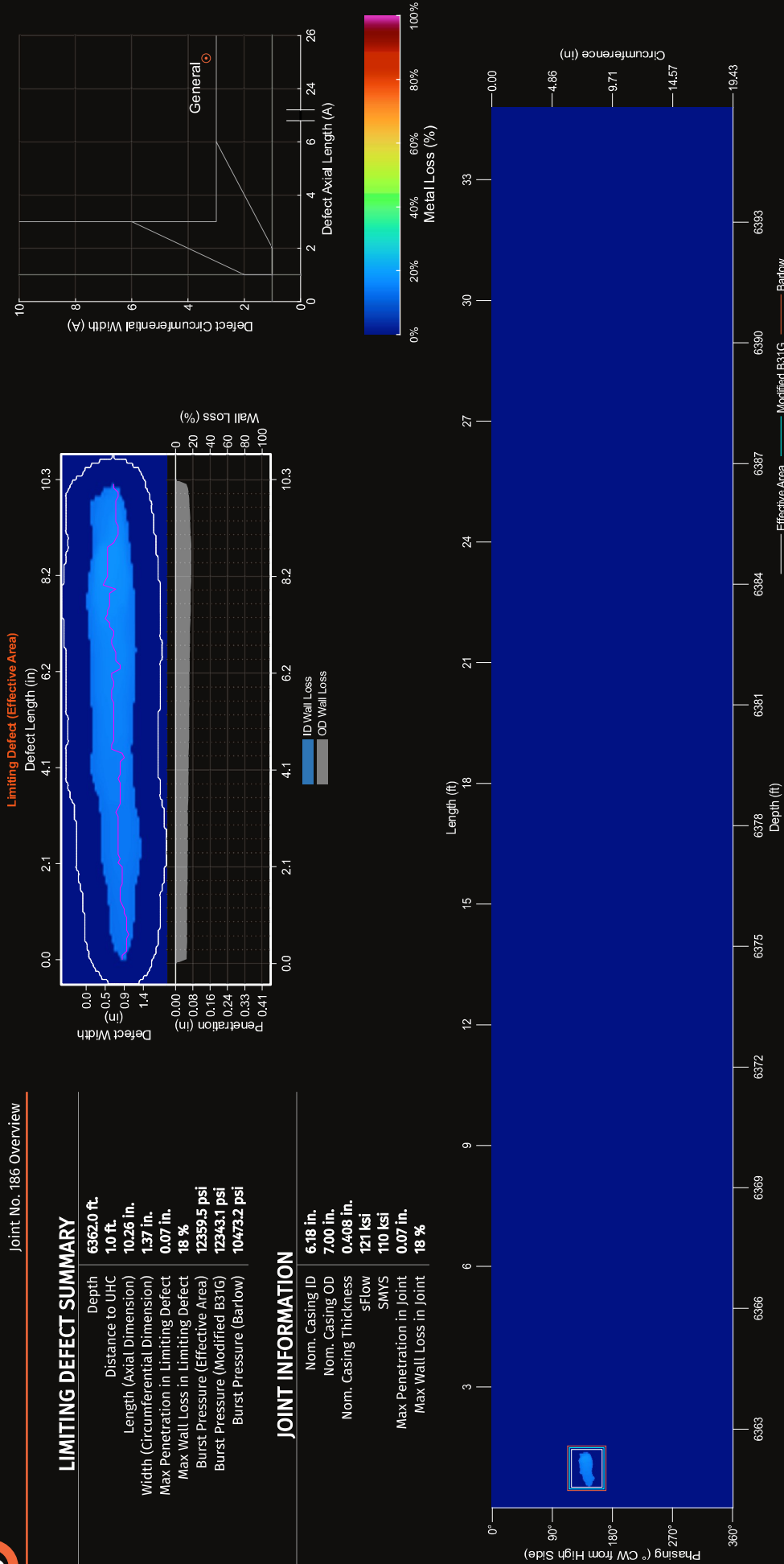
Joint No. 186 Overview

LIMITING DEFECT SUMMARY

Depth **6362.0 ft.**
 Distance to UHC **1.0 ft.**
 Length (Axial Dimension) **10.26 in.**
 Width (Circumferential Dimension) **1.37 in.**
 Max Penetration in Limiting Defect **0.07 in.**
 Max Wall Loss in Limiting Defect **18 %**
 Burst Pressure (Effective Area) **12359.5 psi**
 Burst Pressure (Modified B31G) **12343.1 psi**
 Burst Pressure (Barlow) **10473.2 psi**

JOINT INFORMATION

Nom. Casing ID **6.18 in.**
 Nom. Casing OD **7.00 in.**
 Nom. Casing Thickness **0.408 in.**
 sFlow **121 ksi**
 SMYS **110 ksi**
 Max Penetration in Joint **0.07 in.**
 Max Wall Loss in Joint **18 %**





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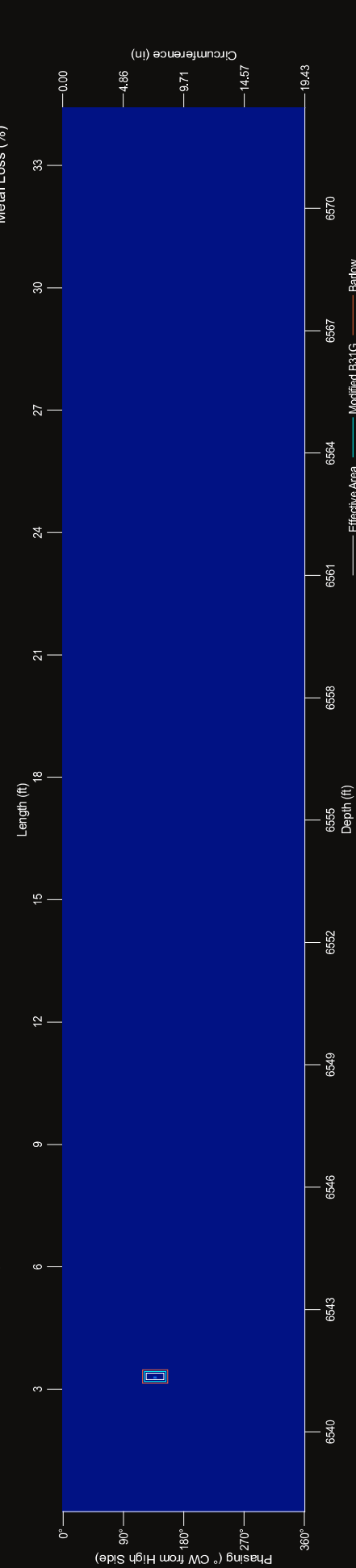
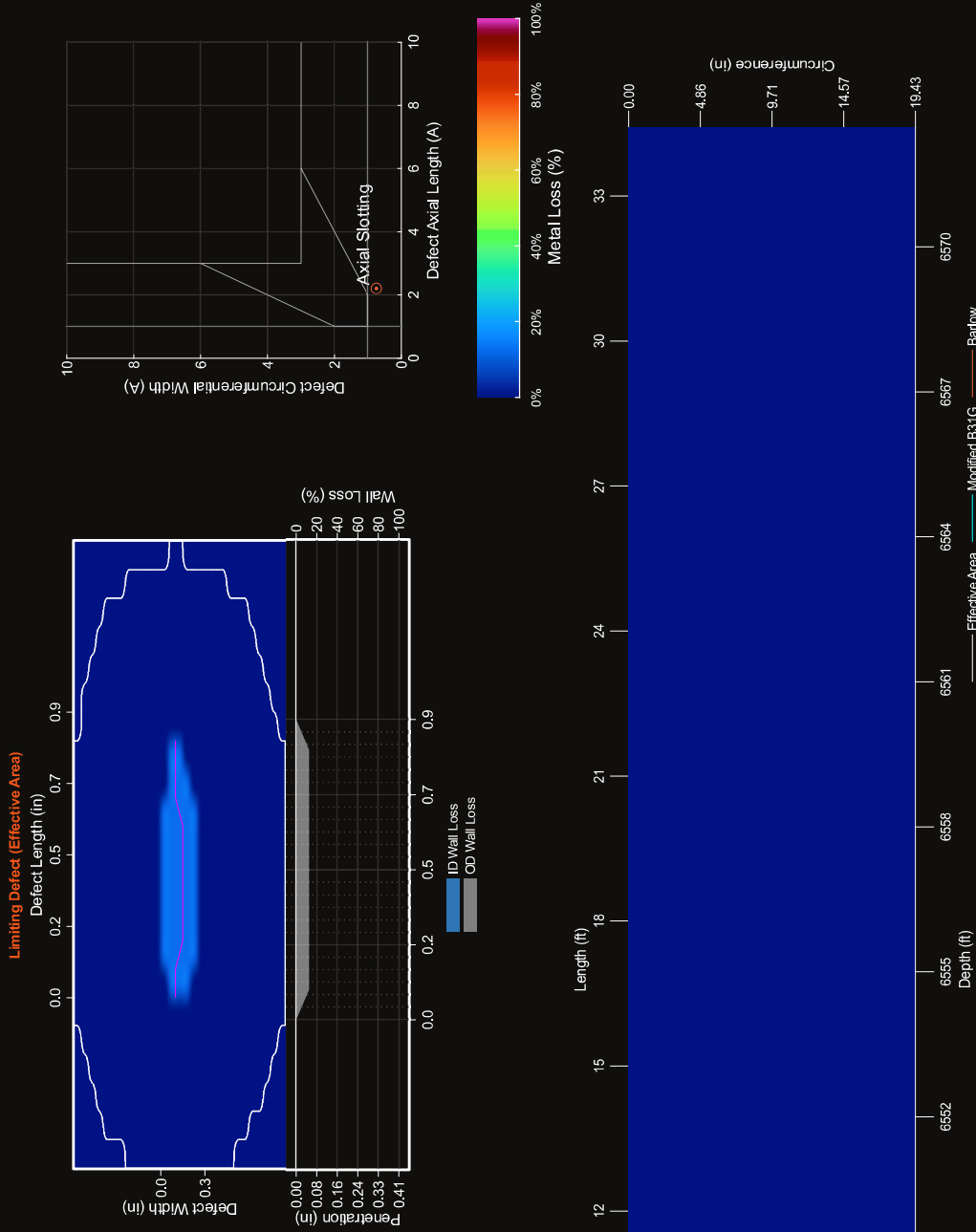
Joint No. 191 Overview

LIMITING DEFECT SUMMARY

Depth	6541.4 ft.
Distance to UHC	3.3 ft.
Length (Axial Dimension)	0.90 in.
Width (Circumferential Dimension)	0.30 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	13 %
Burst Pressure (Effective Area)	13956.4 psi
Burst Pressure (Modified B31G)	13972.5 psi
Burst Pressure (Barlow)	11195.8 psi

JOINT INFORMATION

Nom. Casing ID	6.18 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.408 in.
sFlow	121 ksi
SMYS	110 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	13 %





HF SINCLAIR

WDW-01

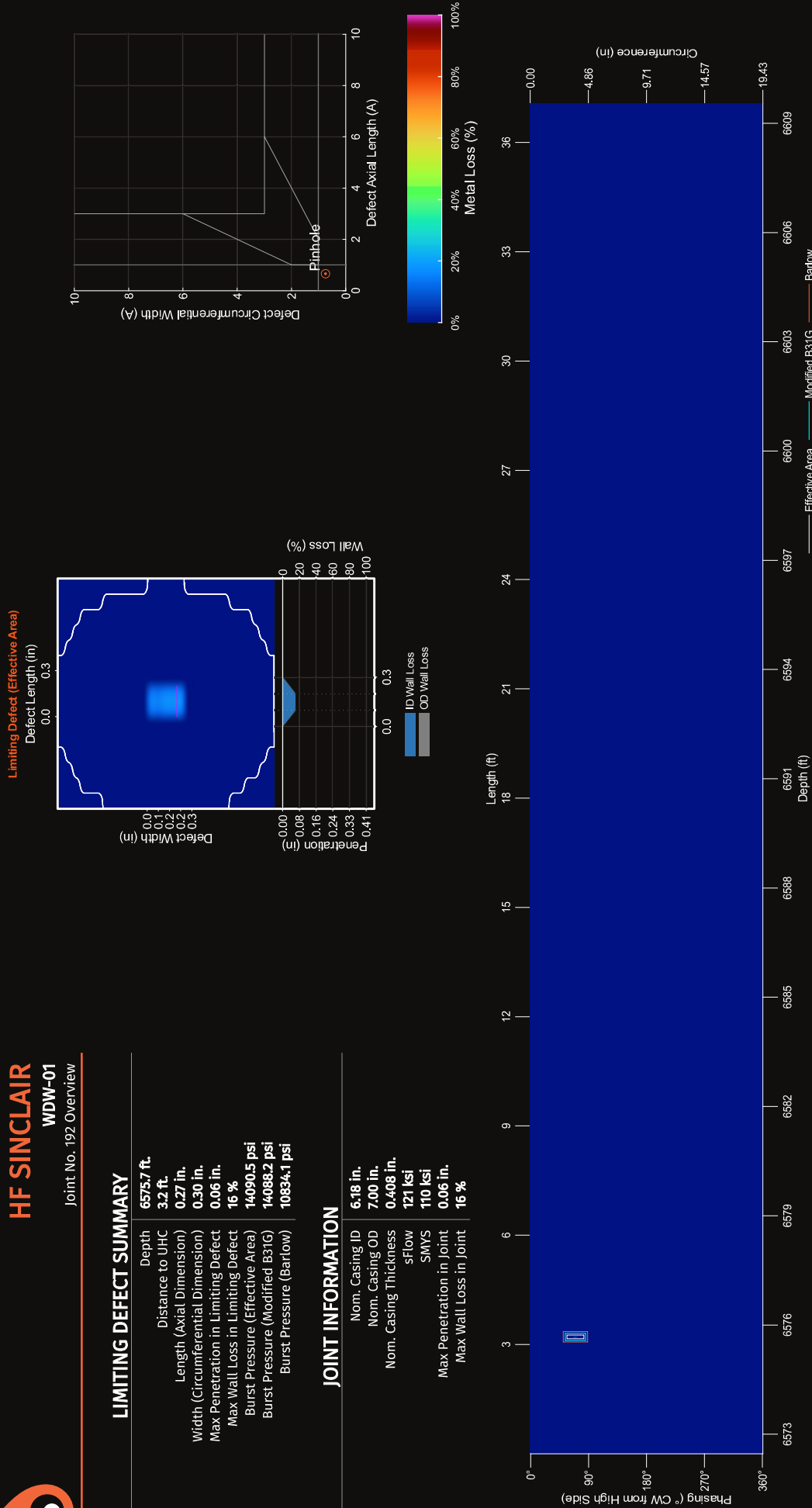
Joint No. 192 Overview

LIMITING DEFECT SUMMARY

Depth	6575.7 ft.
Distance to UHC	3.2 ft.
Length (Axial Dimension)	0.27 in.
Width (Circumferential Dimension)	0.30 in.
Max Penetration in Limiting Defect	0.06 in.
Max Wall Loss in Limiting Defect	16 %
Burst Pressure (Effective Area)	14090.5 psi
Burst Pressure (Modified B31G)	14088.2 psi
Burst Pressure (Barlow)	10834.1 psi

JOINT INFORMATION

Nom. Casing ID	6.18 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.408 in.
sFlow	121 ksi
SMYS	110 ksi
Max Penetration in Joint	0.06 in.
Max Wall Loss in Joint	16 %





HF SINCLAIR
WDW-01

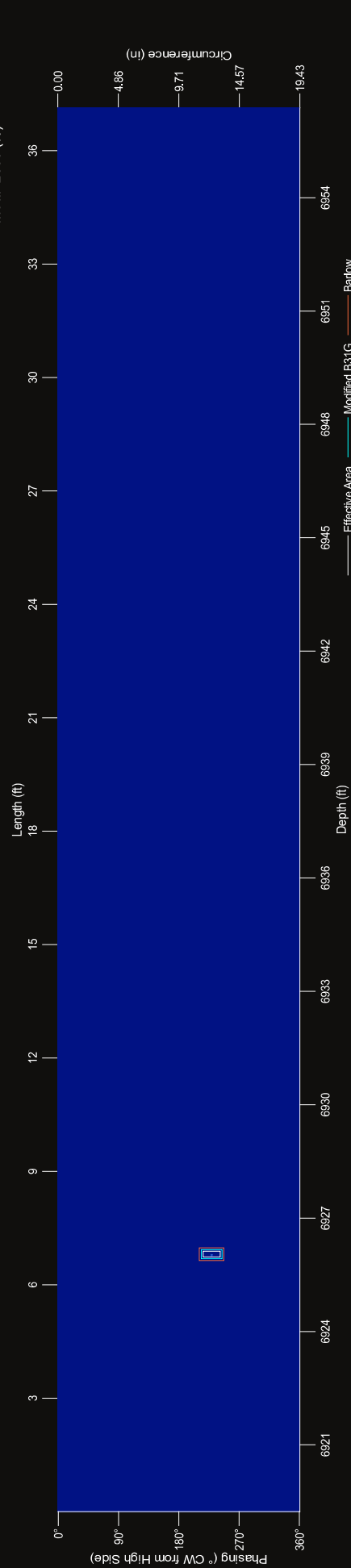
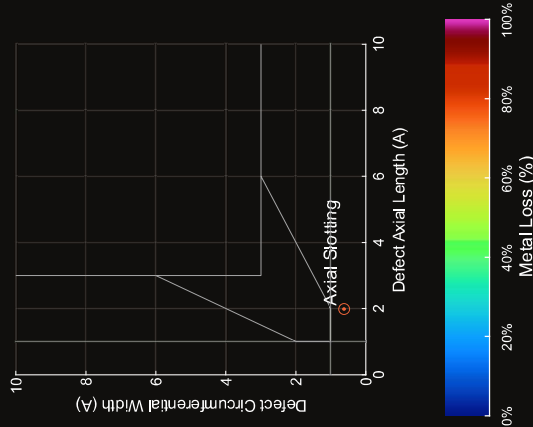
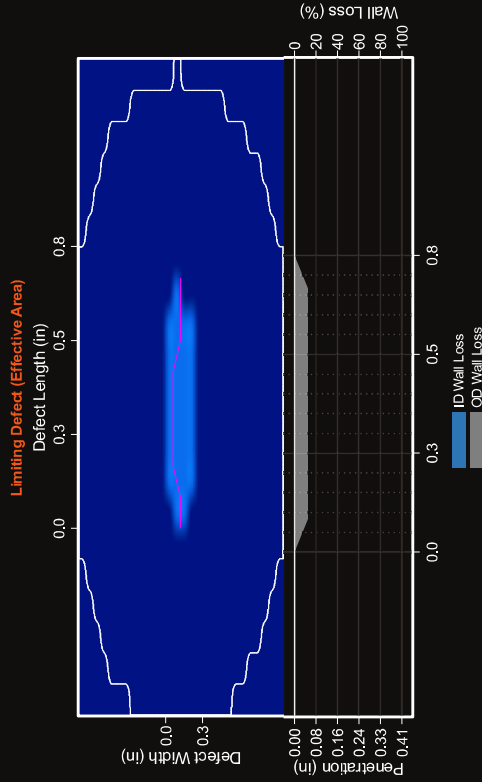
Joint No. 202 Overview

LIMITING DEFECT SUMMARY

Depth	6926.0 ft.
Distance to UHC	6.8 ft.
Length (Axial Dimension)	0.81 in.
Width (Circumferential Dimension)	0.25 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	13 %
Burst Pressure (Effective Area)	13983.4 psi
Burst Pressure (Modified B31G)	13995.9 psi
Burst Pressure (Barlow)	11207.1 psi

JOINT INFORMATION

Nom. Casing ID	6.18 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.408 in.
sFlow	121 ksi
SMYS	110 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	13 %





HF SINCLAIR
WDW-01

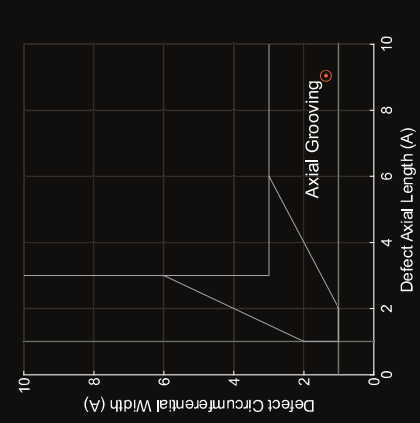
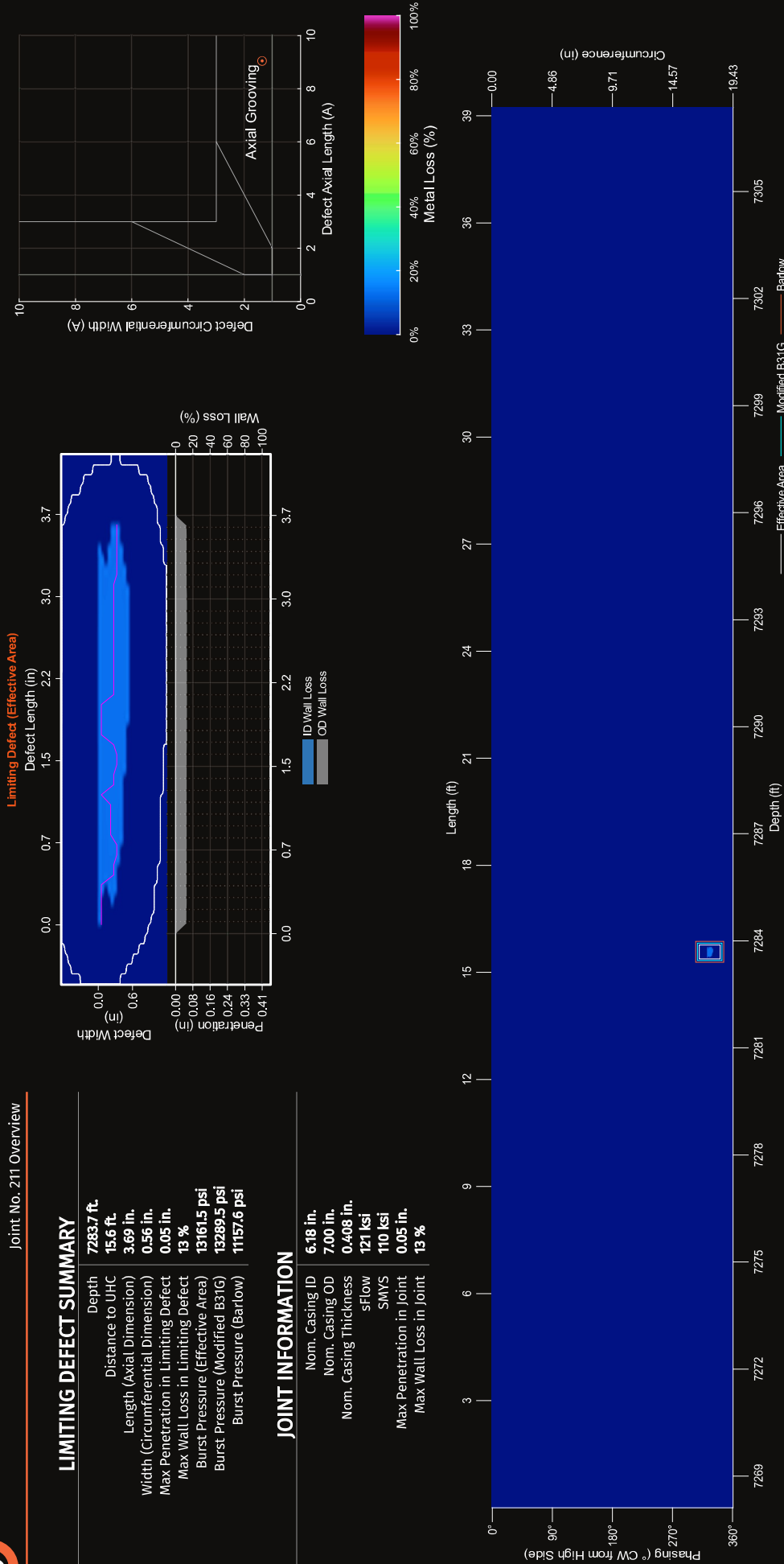
Joint No. 211 Overview

LIMITING DEFECT SUMMARY

Depth	7283.7 ft.
Distance to UHC	15.6 ft.
Length (Axial Dimension)	3.69 in.
Width (Circumferential Dimension)	0.56 in.
Max Penetration in Limiting Defect	0.05 in.
Max Wall Loss in Limiting Defect	13 %
Burst Pressure (Effective Area)	13161.5 psi
Burst Pressure (Modified B31G)	13289.5 psi
Burst Pressure (Barlow)	11157.6 psi

JOINT INFORMATION

Nom. Casing ID	6.18 in.
Nom. Casing OD	7.00 in.
Nom. Casing Thickness	0.408 in.
sFlow	121 ksi
SMYS	110 ksi
Max Penetration in Joint	0.05 in.
Max Wall Loss in Joint	13 %

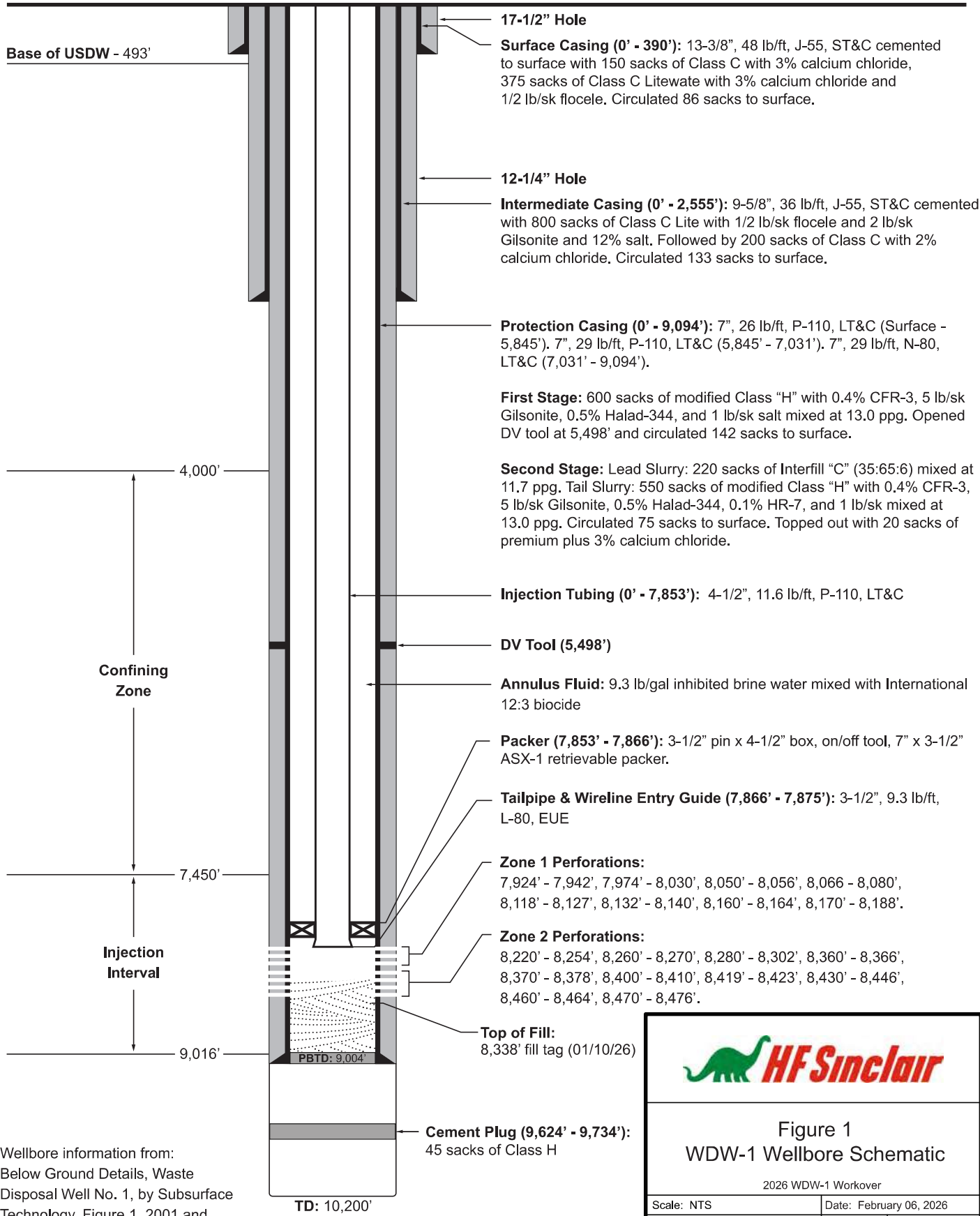


FIGURES

Petrotek

OCD UIC Permit: UICI-008-1
 Well API Number: 30-015-27592
 Eddy County, New Mexico
 Sec. 31, T17S-R28E
 Lat. 32.785222° / Long. -104.21395° (NAD 83)

All depths referenced to Kelly Bushing (KB)
 elevation 12.5' above ground level.
 Ground Level Elevation: +3,603.3' MSL



Wellbore information from:
 Below Ground Details, Waste
 Disposal Well No. 1, by Subsurface
 Technology, Figure 1, 2001 and
 2018 Workover.

NOT TO SCALE





Figure 1
 WDW-1 Wellbore Schematic

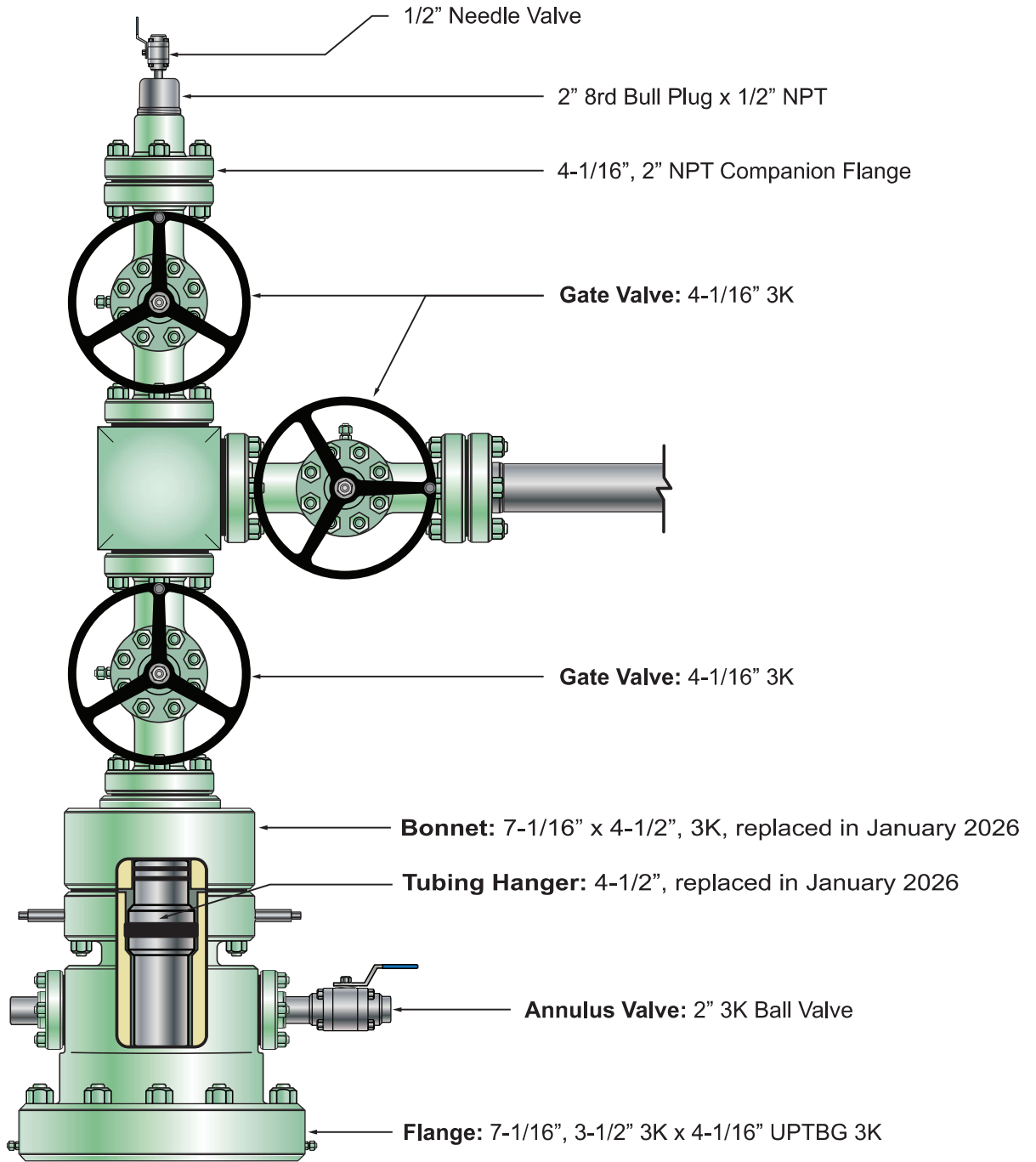
2026 WDW-1 Workover

Scale: NTS	Date: February 06, 2026
2026_02_06 - Fig 01 - WDW1 WB	By: WEK Checked: JD



5935 South Zang Street, Suite 200
 Littleton, Colorado 80127 USA
 303-290-9414
www.petrotek.com

OCD UIC Permit: UICI-008-1
Well API Number: 30-015-27592
Eddy County, New Mexico
Sec. 31, T17S-R28E
Lat. 32.785222° / Long. -104.21395° (NAD 83)



Well Head information partially from: Figure 5, Mewbourne Well No. 1 Wellhead Schematic by Superior Wellhead.

NOT TO SCALE




Figure 2
WDW-1 Wellhead Schematic

2026 WDW-1 Workover

Scale: NTS	Date: February 06, 2026
2026_02_06 - Fig 01 - WDW1 WH	By: WEK Checked: JD

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Littleton, Colorado 80127 USA
303-290-9414
www.petrotek.com

ATTACHMENTS

Petrotek

Attachment 1 OCD Notification and Approval Correspondence

Petrotek

State of New Mexico
Energy, Minerals and Natural Resources

Revised July 18, 2013

Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.
30-015-27592
5. Indicate Type of Lease
STATE [X] FEE []
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name
Mewbourne WDW-1
8. Well Number: WDW-1
9. OGRID Number: 15694
10. Pool name or Wildcat
11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3,603' GL

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH
PROPOSALS.)

1. Type of Well: Oil Well [] Gas Well [] Other - UIC Injection Well

2. Name of Operator
HF SINCLAIR NAVAJO REFINERY LLC

3. Address of Operator
P.O. Box 159, Artesia, NM 88210

4. Well Location
Unit Letter O 659 feet from the South line and 2,377 feet from the EAST line
Section 31 Township 17S Range 28E NMPM County: EDDY

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK [X] PLUG AND ABANDON []
TEMPORARILY ABANDON [] CHANGE PLANS []
PULL OR ALTER CASING [] MULTIPLE COMPL []
DOWNHOLE COMMINGLE []
CLOSED-LOOP SYSTEM []
OTHER: PRESSURE FALLOFF TEST / MIT [X]
SUBSEQUENT REPORT OF:
REMEDIAL WORK [] ALTERING CASING []
COMMENCE DRILLING OPNS. [] P AND A []
CASING/CEMENT JOB []
OTHER: []

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

WDW 1 Workover Plan - Estimated Start date (October, 8, 2025)

- Move in and rig up workover rig and associated equipment
- Run tubing punch and punch holes in tubing above the packer
- Kill well with clear kill brine (exact brine dependent on shut-in tubing pressure and chemical compatibility)
- Rig down wellhead and install blowout preventors (BOPs)
- Release tubing hanger and packer, pull out of hole
- Run casing scraper on workstring to approximately 7,880 feet KB (7867' BGL)
- Run casing inspection log to approximately 7,880 feet KB (7867' BGL)
- Run retrievable bridge plug to 7,850-7,900 feet BGL (7,838' - 7887' BGL); conduct pressure test to 500 psi minimum for at least 30 minutes
- Assuming a good pressure test, release bridge plug and pull out of hole
- Pick up a new 7-inch packer and run in the hole with new 4 1/2-inch injection tubing
- Pump one annulus volume of inhibited freshwater down the casing as packer fluid
- Set packer within or immediately above the permitted injection interval
- Conduct pressure test to greater than 500 psi for 30 minutes
- Assuming a successful test, provide notice to OCD for an official MIT
- Rig down BOPs and re-install wellhead. Rig down workover rig
- Conduct official MIT per OCD guidance and attached MIT procedures
- Return well to injection
- Submit report of workover activities to OCD within 30 days

Spud Date: []

Rig Release Date: []

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE [Signature]
Released to Imaging: 3/3/2026 10:08:46 AM

TITLE Env. Manager DATE 10-6-25

Type or print name _____ E-mail address: _____ PHONE: _____

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

Specific Mechanical Integrity Test Procedures:

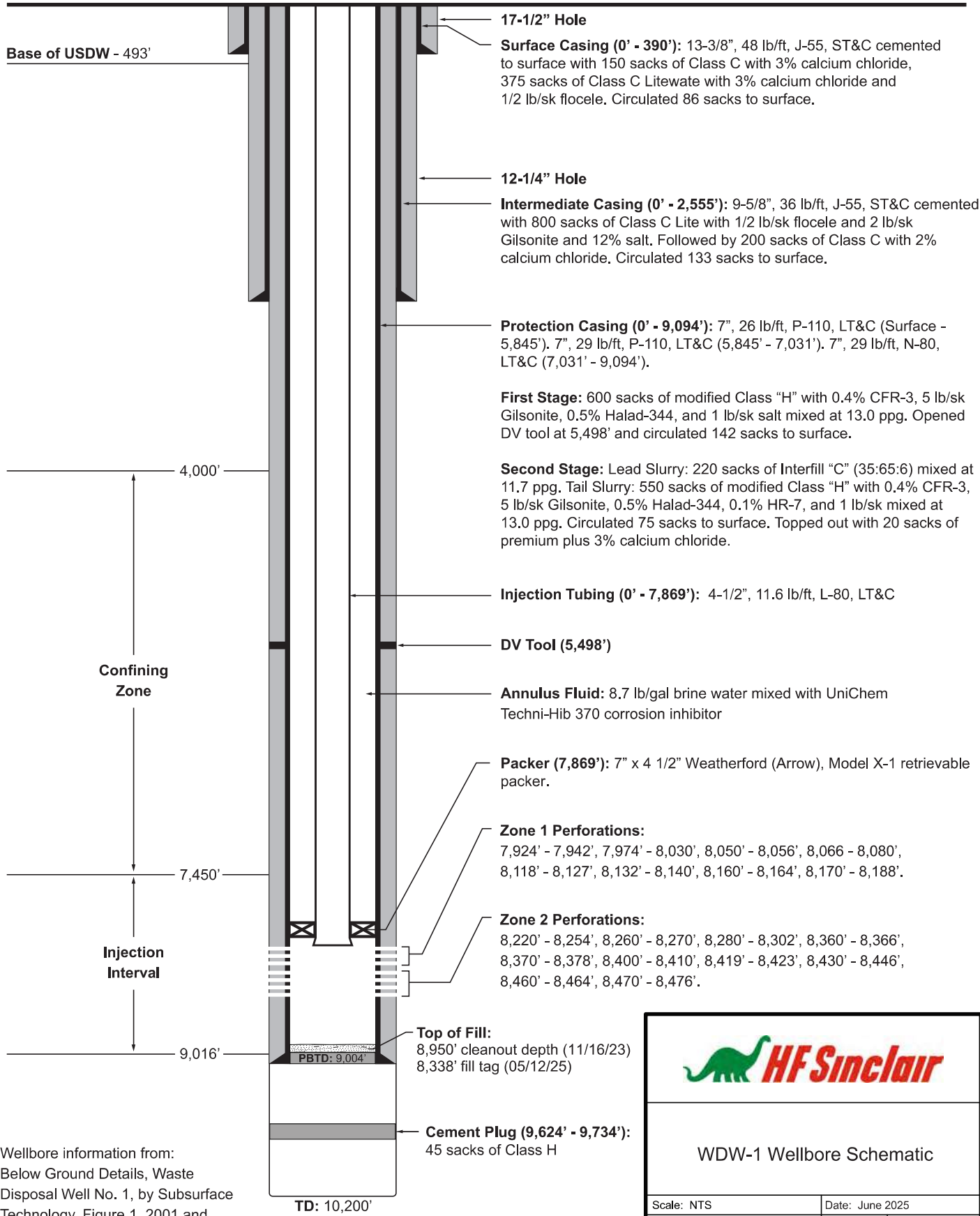
- A. Notify regulatory agency inspectors of test schedule.
- B. Ensure that well to be tested has been shut-in for a minimum of 24 hours. Record initial annulus pressure. Record tubing injection pressure.
- C. Use pressure washer or similar equipment to raise the annulus pressure to more than 500 psi.
- D. Install certified circle chart recorder and record at least 2 minutes of data indicating that the unit has been correctly zeroed.
 - a. Chart may be set to record over a period of one or two hours using a 24 hr chart
- E. Slowly open valves from annulus to chart recorder while recording.
- F. Record annulus pressure for at least 30 minutes. Test must lose less than 10% in 30 minutes, with test data stabilized (+/- 1%) in the final 10 minutes. The test may be extended by one of the following methods:
 - a. Test may be extended to an hour if the recorder is set to record over an hour
 - b. Test may be extended to more than an hour if the recorder is set to record over 2 hours
- G. Bleed well down to normal operating pressure, recording data on chart recorder
- H. Shut annulus valves at the wellhead and bleed off pressure to chart recorder, recording the needle returning to zero, +/- 10 psi.
- I. Return monitoring and annulus system to service and return well to operator control.
- J. Provide copy of test gauge certification to inspector on-site. Provide copy of field test records and certified annulus pressure gauge calibration data to agency in written report.

WDW 1 Workover Plan – Estimated Start date (October, 8, 2025)

- Move in and rig up workover rig and associated equipment
- Run tubing punch and punch holes in tubing above the packer
- Kill well with clear kill brine (exact brine dependent on shut-in tubing pressure and chemical compatibility)
- Rig down wellhead and install blowout preventors (BOPs)
- Release tubing hanger and packer, pull out of hole
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- Run casing inspection log to approximately 7,880 feet KB (7867' BGL)
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- Assuming a good pressure test, release bridge plug and pull out of hole
- Pick up a new 7-inch packer and run in the hole with new 4 ½-inch injection tubing
- Pump one annulus volume of inhibited freshwater down the casing as packer fluid
- Set packer within or immediately above the permitted injection interval
- Conduct pressure test to greater than 500 psi for 30 minutes
- Assuming a successful test, provide notice to OCD for an official MIT
- Rig down BOPs and re-install wellhead. Rig down workover rig
- Conduct official MIT per OCD guidance and attached MIT procedures
- Return well to injection
- Submit report of workover activities to OCD within 30 days


OCD UIC Permit: UICI-008-1
 Well API Number: 30-015-27592
 Eddy County, New Mexico
 Sec. 31, T17S-R28E
 Lat. 32.785222° / Long. -104.21395° (NAD 83)

All depths referenced to Kelly Bushing (KB)
 elevation 12.5' above ground level.
 Ground Level Elevation: +3,603.3' MSL



Wellbore information from:
 Below Ground Details, Waste
 Disposal Well No. 1, by Subsurface
 Technology, Figure 1, 2001 and
 2018 Workover.

NOT TO SCALE



WDW-1 Wellbore Schematic

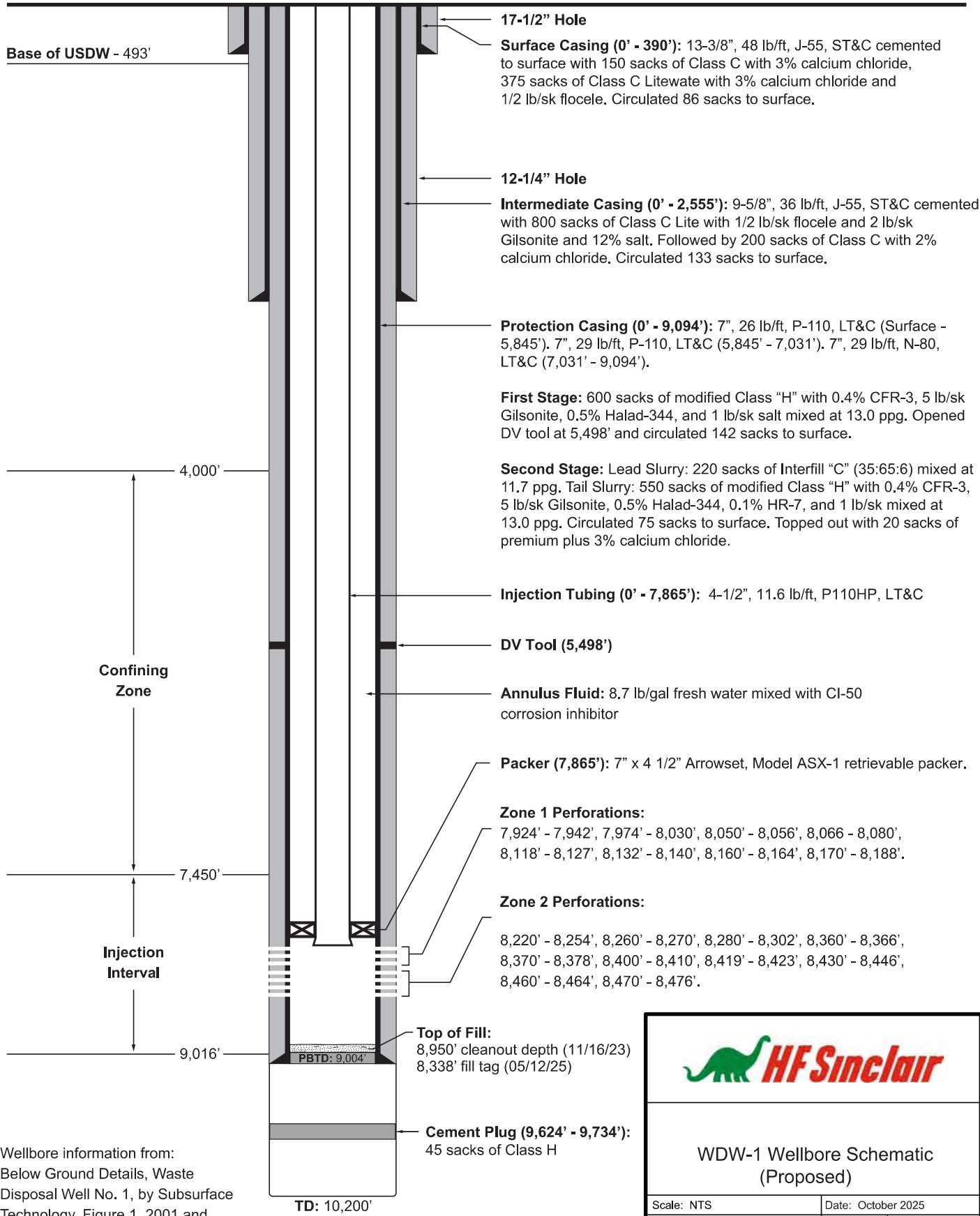
Scale: NTS	Date: June 2025
WDW-01 WB.pdf	By: WEK Checked: WJ

Petrotek

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 Littleton, Colorado 80127 USA
 303-290-9414
www.petrotek.com


OCD UIC Permit: UICI-008-1
 Well API Number: 30-015-27592
 Eddy County, New Mexico
 Sec. 31, T17S-R28E
 Lat. 32.785222° / Long. -104.21395° (NAD 83)

All depths referenced to Kelly Bushing (KB)
 elevation 12.5' above ground level.
 Ground Level Elevation: +3,603.3' MSL



Wellbore information from:
 Below Ground Details, Waste
 Disposal Well No. 1, by Subsurface
 Technology, Figure 1, 2001 and
 2018 Workover.

NOT TO SCALE



**WDW-1 Wellbore Schematic
(Proposed)**

Scale: NTS	Date: October 2025
WDW-01 WB.pdf	By: WEK Checked: WJ

Petrotek 5935 South Zang Street, Suite 200
 Littleton, Colorado 80127 USA
 303-290-9414
www.petrotek.com

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 512265

COMMENTS

Operator: HF Sinclair Navajo Refining LLC ATTN: GENERAL COUNSEL Dallas, TX 75201	OGRID: 15694
	Action Number: 512265
	Action Type: [C-103] NOI Workover (C-103G)

COMMENTS

Created By	Comment	Comment Date
cchavez	Corrective Action subsequent to discovery of tubing leak and investigation post FOT 2025. Tubing and packer replacement as per original well construction.	10/10/2025

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Phone: (505) 476-3441

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 512265

CONDITIONS

Operator: HF Sinclair Navajo Refining LLC ATTN: GENERAL COUNSEL Dallas, TX 75201	OGRID: 15694
	Action Number: 512265
	Action Type: [C-103] NOI Workover (C-103G)

CONDITIONS

Created By	Condition	Condition Date
cchavez	None	10/10/2025

From: Chavez, Carl, EMNRD
To: Ken Schlieper; Alba, Teresa
Cc: Goetze, Phillip, EMNRD; Holder, Mike; Ramirez, Lee; Tilton, Holt; Hinkins, Case; Wes Janes; Jeremiah Demuth; Goetze, Phillip, EMNRD; Cordero, Gilbert, EMNRD; Karl Garza (karl.garza@sageenvirotech.com); Chuck Wilson; Goetze, Phillip, EMNRD; Cordero, Gilbert, EMNRD
Subject: RE: [EXTERNAL] OCD's verbal approval for the WDW-1 MIT
Date: Friday, January 23, 2026 2:57:09 PM
Attachments: image004.png
 2025_10_14 Chart Recorder Re-Cal Sheet.pdf

Warning: Unusual sender <carlj.chavez@emnrn.nm.gov>
 You don't usually receive emails from this address. Make sure you trust this sender before taking any actions.

Ken, et al.,
 MIT passes.
 I will update the inspection record.
 Please proceed.
 Thank you.

Carl J. Chavez * UIC Group
 Engineering Bureau
 EMNRD- Oil Conservation Division
 5200 Oakland Ave., N.E. Suite A | Albuquerque, NM 87113
 505.660.7923 | CarlJ.Chavez@emnrn.nm.gov
www.emnrn.nm.gov



From: Ken Schlieper <kschlieper@petrotek.com>
Sent: Friday, January 23, 2026 2:04 PM
To: Chavez, Carl, EMNRD <CarlJ.Chavez@emnrn.nm.gov>; Alba, Teresa <Teresa.Alba@HFSinclair.com>
Cc: Goetze, Phillip, EMNRD <phillip.goetze@emnrn.nm.gov>; Holder, Mike <Michael.Holder@HFSinclair.com>; Ramirez, Lee <Lee.Ramirez@HFSinclair.com>; Tilton, Holt <Cory.Tilton@HFSinclair.com>; Hinkins, Case <Case.Hinkins@HFSinclair.com>; Wes Janes <wjanes@petrotek.com>; Jeremiah Demuth <jdemuth@petrotek.com>; Goetze, Phillip, EMNRD <phillip.goetze@emnrn.nm.gov>; Cordero, Gilbert, EMNRD <Gilbert.Cordero@emnrn.nm.gov>; Karl Garza (karl.garza@sageenvirotech.com) <karl.garza@sageenvirotech.com>; Chuck Wilson <cwilson@petrotek.com>
Subject: RE: [EXTERNAL] OCD's verbal approval for the WDW-1 MIT

HFSNR Team and OCD,

Please find below pressures manually recorded during the final successful annulus pressure test completed today. Please find attached the annotated circle chart recorded during the 30-minute annulus pressure test as well as the circle chart calibration certificate.

With these results, HFSNR requests authorization to resume injection operations on WDW-1.

HFSNR WDW-1 Annulus Pressure Test After Completion of Workover

Date/Time	Annulus Pressure	Pressure Change [psi]	Percent Change	Notes
1/23/2026 11:25	760.0	-----	-----	Pressurize annulus to ~ 760 and let stabilize for 10 minutes Begin 30-minute annulus pressure test
1/23/2026 11:35	755.7	-----	-----	
1/23/2026 11:40	754.3	-1.4	-0.19%	
1/23/2026 11:45	753.5	-2.2	-0.29%	
1/23/2026 11:50	752.9	-2.8	-0.37%	
1/23/2026 11:55	752.5	-3.2	-0.42%	
1/23/2026 12:00	752.1	-3.6	-0.48%	
1/23/2026 12:05	751.8	-3.9	-0.52%	End of 30-minute annulus pressure test
1/23/2026 12:07	480.0	-----	-----	Bled annulus to ~ 480 and left on annulus
1/23/2026 12:12	0.0	-----	-----	Disconnect circle chart from annulus, lift pen from chart

Thank you,

Ken Schlieper
Petrotek Corporation
 5935 South Zang Street, Suite 200
 Littleton, Colorado 80127 USA
kschlieper@petrotek.com
 P: 303-290-9414 x 419
 F: 303-290-9580
 C: 303-919-6289
www.petrotek.com

From: Chavez, Carl, EMNRD <CarlJ.Chavez@emnrn.nm.gov>
Sent: Friday, January 23, 2026 8:56 AM
To: Alba, Teresa <Teresa.Alba@HFSinclair.com>
Cc: Goetze, Phillip, EMNRD <phillip.goetze@emnrn.nm.gov>; Holder, Mike <Michael.Holder@HFSinclair.com>; Ramirez, Lee <Lee.Ramirez@HFSinclair.com>; Tilton, Holt <Cory.Tilton@HFSinclair.com>; Hinkins, Case <Case.Hinkins@HFSinclair.com>; Ken Schlieper <kschlieper@petrotek.com>; Wes Janes <wjanes@petrotek.com>; Jeremiah Demuth <jdemuth@petrotek.com>; Goetze, Phillip, EMNRD <phillip.goetze@emnrn.nm.gov>; Cordero, Gilbert, EMNRD <Gilbert.Cordero@emnrn.nm.gov>
Subject: RE: [EXTERNAL] OCD's verbal approval for the WDW-1 MIT

Warning: Unusual sender <carlj.chavez@emnrn.nm.gov>
 You don't usually receive emails from this address. Make sure you trust this sender before taking any actions.

Teresa, et al.,

Re:

Well	OCD Permit No.	Expiration Date	Facility ID#	OGRID#	API#	County	Location	Lat./Long.	Footages	TD	Operator	Injection Formation	Status
WDW-1 (Mewbourne Well No. 1)	UICI-008-1	12/11/2022	FCJC2117350329	15694/255554	30-015-27592	Eddy	O-31-17S-28E	32.785222,-104.213950 NAD83	659 FSL 2377 FEL	10,200	HF Sinclair Navajo Refining, LLC	Wolfcamp, Cisco and Canyon Formations	A

Good morning!

Per our phone call discussion this morning, please proceed with the above subject test.

As I recall, the Permittee has the MIT included with the Sundry C-103 NOI

The impending cold snowy weather conditions and bringing online before the freeze will help ensure the well is in running condition before the Winter Storm.

Regardless, the Permittee knows the OCD MIT Procedure.

Thank you.

Carl J. Chavez * UIC Group
 Engineering Bureau
 EMNRD- Oil Conservation Division
 5200 Oakland Ave., N.E. Suite A | Albuquerque, NM 87113
 505.660.7923 | CarlJ.Chavez@emnrn.nm.gov
www.emnrn.nm.gov



From: Alba, Teresa <Teresa.Alba@HFSinclair.com>
Sent: Friday, January 23, 2026 8:15 AM
To: Chavez, Carl, EMNRD <CarlJ.Chavez@emnrn.nm.gov>
Cc: Goetze, Phillip, EMNRD <phillip.goetze@emnrn.nm.gov>; Holder, Mike <Michael.Holder@HFSinclair.com>; Ramirez, Lee <Lee.Ramirez@HFSinclair.com>; Tilton, Holt <Cory.Tilton@HFSinclair.com>; Hinkins, Case <Case.Hinkins@HFSinclair.com>; Ken Schlieper <kschlieper@petrotek.com>; Wes Janes <wjanes@petrotek.com>; Jeremiah Demuth <jdemuth@petrotek.com>
Subject: [EXTERNAL] OCD's verbal approval for the WDW-1 MIT

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning Carl,

Thanks for speaking with me earlier. As discussed, the OCD has given verbal approval to HFSNR to proceed with the MIT on WDW-1.

We'll provide the following documentation to you shortly after the MIT is completed (please edit this list if I missed anything):

- Charts
- Date
- Type of test
- Witnesses (with an understanding that the OCD won't be present)
- Start and end pressure
- Copy of calibration sheet
- Clock speed should be set accordingly

We acknowledge and appreciate the OCD's continued support and cooperation with the site.

Regards,
 Teresa

Teresa Alba
 Environmental Special Projects Lead
 O 575-746-5391
 M 575-909-1600

Teresa.Alba@hfsinclair.com
www.HFSinclair.com □□□□
 PO Box 159 Artesia, NM 88211



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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 555243

COMMENTS

Operator: HF Sinclair Navajo Refining LLC ATTN: GENERAL COUNSEL Dallas, TX 75201	OGRID: 15694
	Action Number: 555243
	Action Type: [C-103] Sub. Workover (C-103R)

COMMENTS

Created By	Comment	Comment Date
cchavez	Work Over Remedial Work	3/3/2026

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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State of New Mexico
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Santa Fe, NM 87505

CONDITIONS

Action 555243

CONDITIONS

Operator: HF Sinclair Navajo Refining LLC ATTN: GENERAL COUNSEL Dallas, TX 75201	OGRID: 15694
	Action Number: 555243
	Action Type: [C-103] Sub. Workover (C-103R)

CONDITIONS

Created By	Condition	Condition Date
cchavez	None	3/3/2026