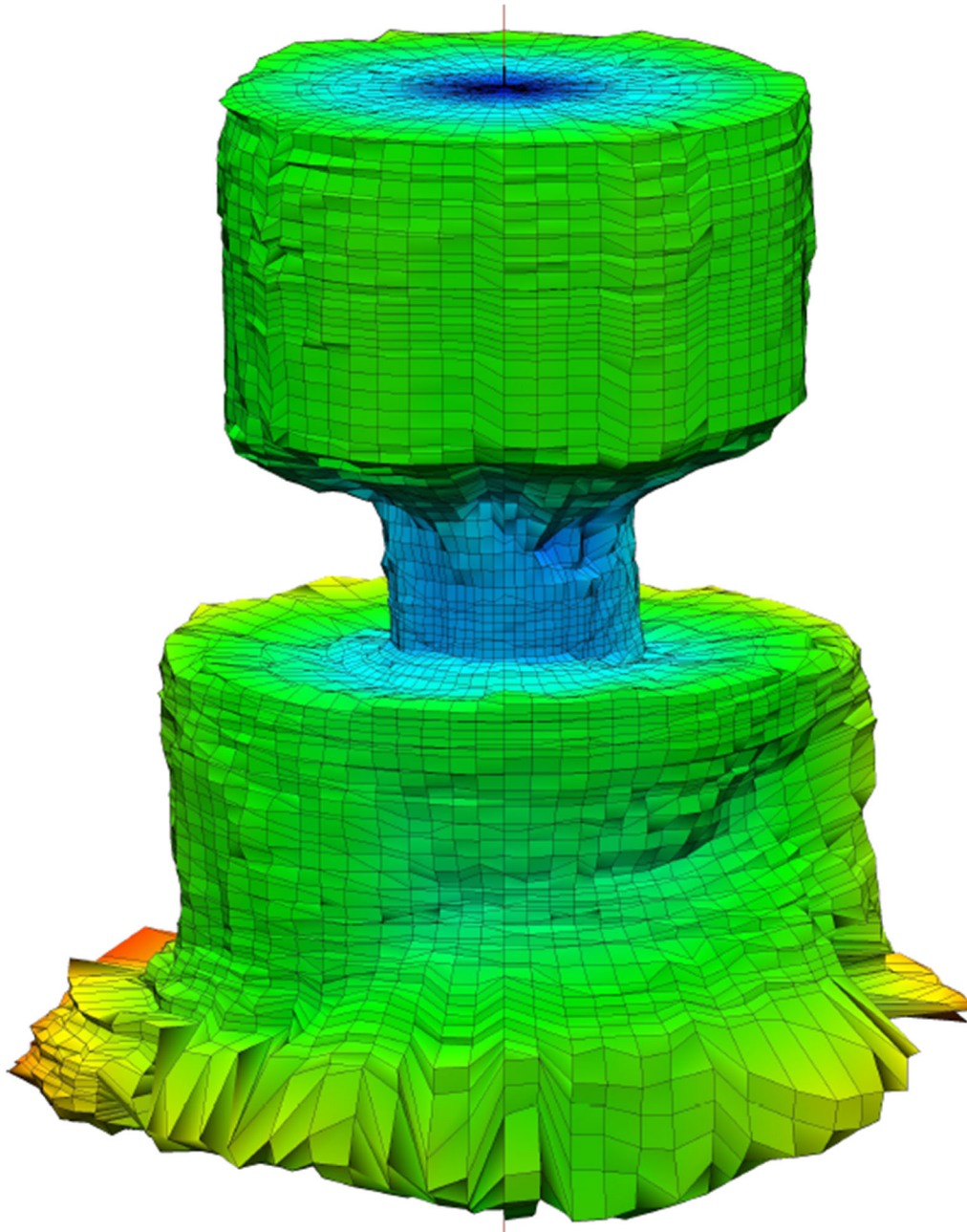




P.O. Box 719 Mont Belvieu, TX 77580 Office: 281-385-6500 Fax: 281-385-2628 Email: rickyl@sonic-surveys.com

Westlake Chemicals
PPG No. 007B
Sulphur Mines
Calcasieu Parish, Louisiana
April 15, 2024
Through Pipe Sonar Survey



Survey Conducted by: Richard Lawrence
Company Representative: Mr. Cayden Sessions - Lonquist

Serving the Storage Well Industry Since 1978



Table of Contents

Cover Page.....	1
Table of Contents	2
Well Information	3
List of Acquired Measurements	4
Total Volume Vs. Depth	5
Partial Volume Vs. Depth per ft.....	6
Mean Radius	7
Volume Table.....	8-25
Maximum Extension.....	26
Solid View from Above	27
Max Radius & Depth vs Bearing	28
Wall Ranges versus Depth (N,NE,E,SE,S,SW,W,NW)	29-34
Vertical Sections	35-47
Expanded Vertical Sections.....	48-55
Horizontal Sections.....	56-61
Wall Ranges versus Depth	62-125
Solids Views	126-133



Well Information

Company: Westlake Chemicals
 Well Number: PPG Well No. 007B
 Field: Sulphur Mines
 State: Louisiana
 Parish: Calcasieu
 API No.: 17-019-04012
 Serial No.: 67270

Cemented Casing: 7-5/8 in. @ 2501 ft.
 Hanging String: 5-1/2 in. @ 2607 ft.
 Total Depth: 3098.73 ft.

Permanent Datum: B.H.F
 Depth Correction: -9.26 ft.

Total Volume BBL: 9,793,188.05
 Total Volume Ft³: 54,984,670.41

Sonar Tool Orientation:

Sonar tool serial number SON-073-033 magnetic compass calibration performed on April 4, 2023.

The sonar survey was run using the fiber optic gyro which was set to the internal magnetic compass at the depth of 2640 feet. The orientation was checked on surface after the survey to verify the orientation.

Operation No. 1 – Sonic Surveys / Flodim – 2022.03.11 – Through Pipe Sonar
 Operation No. 2 – Sonic Surveys / Flodim – 2022.11.02 – Through Pipe Sonar
 Operation No. 3 – Sonic Surveys / Flodim – 2023.01.11 – Through Pipe Sonar
 Operation No. 4 – Sonic Surveys / Flodim – 2023.02.01 – Through Pipe Sonar
 Operation No. 5 – Sonic Surveys / Flodim – 2023.03.16 – Through Pipe Sonar
 Operation No. 6 – Sonic Surveys / Flodim – 2023.07.26 – Through Pipe Sonar
 Operation No. 7 – Sonic Surveys / Flodim – 2023.11.12 – Through Pipe Sonar
 Operation No. 8 – Sonic Surveys / Flodim – 2024.04.15 – Through Pipe Sonar



List of Acquired Measurements

Sonar survey from 2501 ft. to 3090 ft.

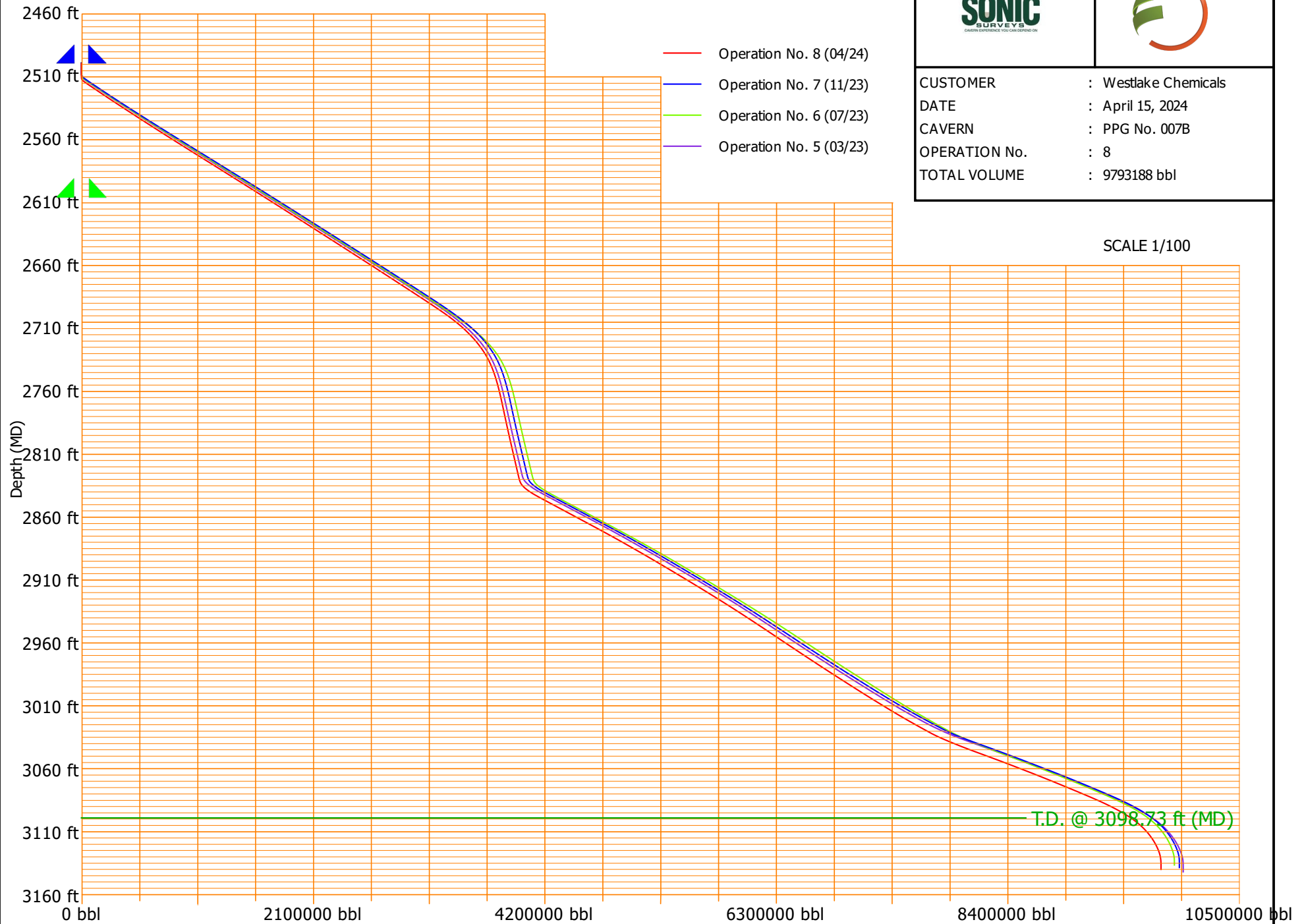
- Oriented circular horizontal sections from 2501 ft to 2502 ft, with a step of 1 foot.
- Oriented circular horizontal sections from 2502 ft to 2505 ft, with a step of 3 feet.
- Oriented circular horizontal sections from 2505 ft to 2510 ft, with a step of 5 feet.
- Oriented circular horizontal sections from 2510 ft to 2520 ft, with a step of 2 feet.
- Oriented circular horizontal sections from 2520 ft to 2600 ft, with a step of 10 feet.
- Oriented circular horizontal sections from 2600 ft to 2640 ft, with a step of 5 feet.
- Oriented circular horizontal sections from 2640 ft to 2800 ft, with a step of 10 feet.
- Oriented circular horizontal sections from 2800 ft to 2870 ft, with a step of 5 feet.
- Oriented circular horizontal sections from 2870 ft to 3000 ft, with a step of 10 feet.
- Oriented circular horizontal sections from 3000 ft to 3090 ft, with a step of 5 feet.
- Up-tilted oriented circular sections from 2615 ft with a tilt of 5°, 10°, 15°, 20°, 25°, 30°, 35°, 40°, 45°, 50°, 55°, 60°, 65°, 70°, 75°, 80°, 85°, 89° with respect to the horizontal.
- Down-tilted oriented circular sections from 2615 ft with a tilt of -60°, -55°, -50°, -45°, -40°, -35°, -30°, -25° with respect to the horizontal.
- Down-tilted oriented circular sections from 2900.0ft deep, with a tilt of -75°, -70°, -65°, -60°, -57°, -54°, -51°, -48°, -45°, -42°, -39°, -36°, -33°, -30°, -27°, -24° with respect to the horizontal.
- Up-tilted oriented circular sections from 2920 ft with a tilt of 10°, 15°, 20°, 25°, 30°, 35°, 40°, 45°, 50°, 55°, 60°, 65°, 70°, 75°, 80°, 85° with respect to the horizontal.
- Down-tilted oriented circular sections from 3050 ft with a tilt of -87°, -84°, -81°, -78°, -75°, -72°, -69°, -66°, -63°, -60°, -57°, -54°, -51°, -48°, -45°, -42°, -39°, -36°, -33°, -30°, -27°, -24°, -21°, -18°, -15°, -12°, -9°, -6°, -3° with respect to the horizontal.
- Up-tilted oriented circular sections from 3080 ft with a tilt of 3°, 6°, 9°, 12°, 15°, 18°, 21°, 24°, 27°, 30°, 33°, 36°, 39°, 42°, 45°, 48°, 51°, 55°, 60° with respect to the horizontal.
- 1 complimentary measurement to determine the cavity floor depth.

TOTAL VOLUME (bbl) VERSUS DEPTH (ft)



CUSTOMER	: Westlake Chemicals
DATE	: April 15, 2024
CAVERN	: PPG No. 007B
OPERATION No.	: 8
TOTAL VOLUME	: 9793188 bbl

SCALE 1/100

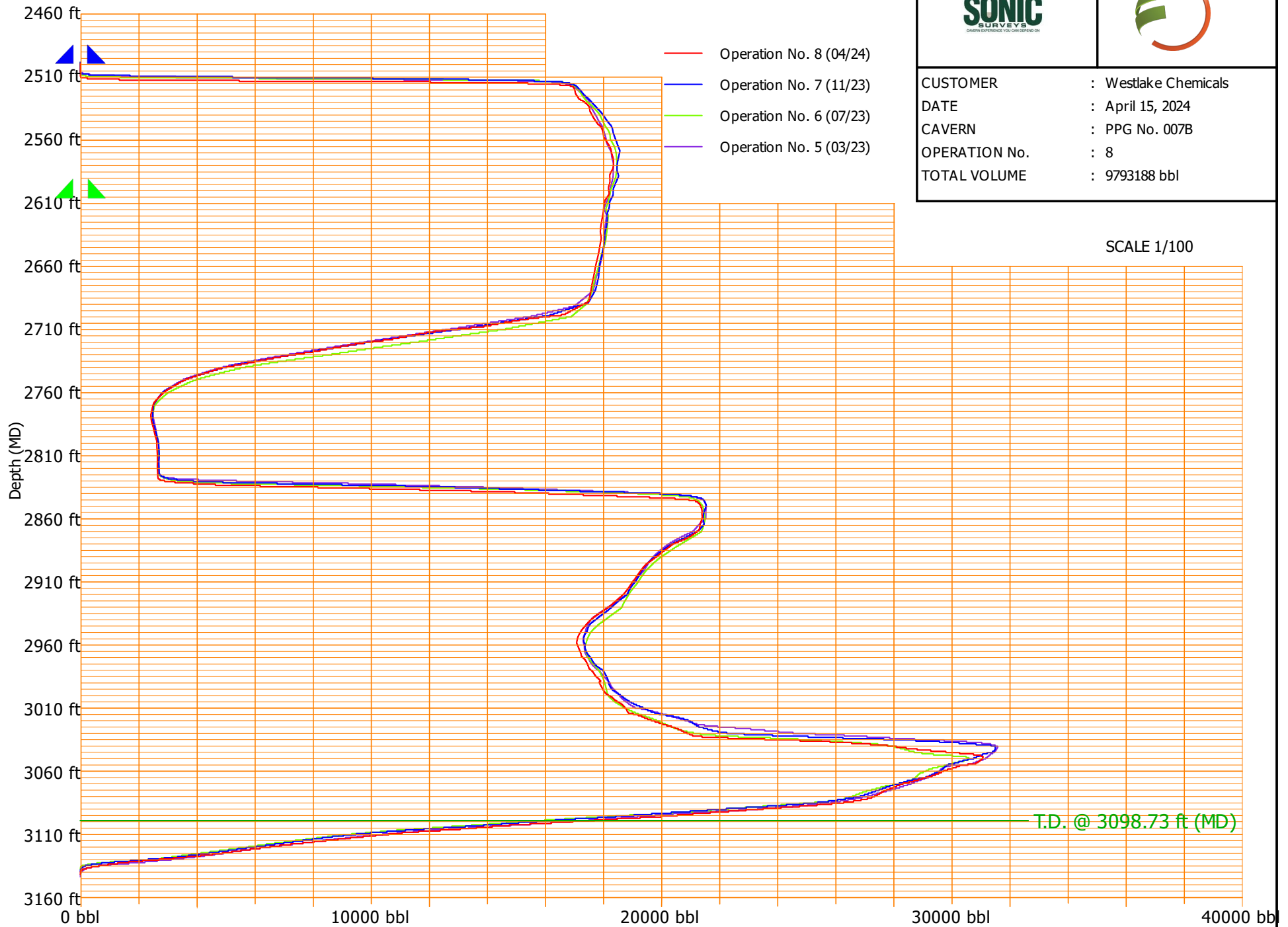


PARTIAL VOLUME (bbl) VERSUS DEPTH EACH 1 ft



CUSTOMER	: Westlake Chemicals
DATE	: April 15, 2024
CAVERN	: PPG No. 007B
OPERATION No.	: 8
TOTAL VOLUME	: 9793188 bbl

SCALE 1/100





CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

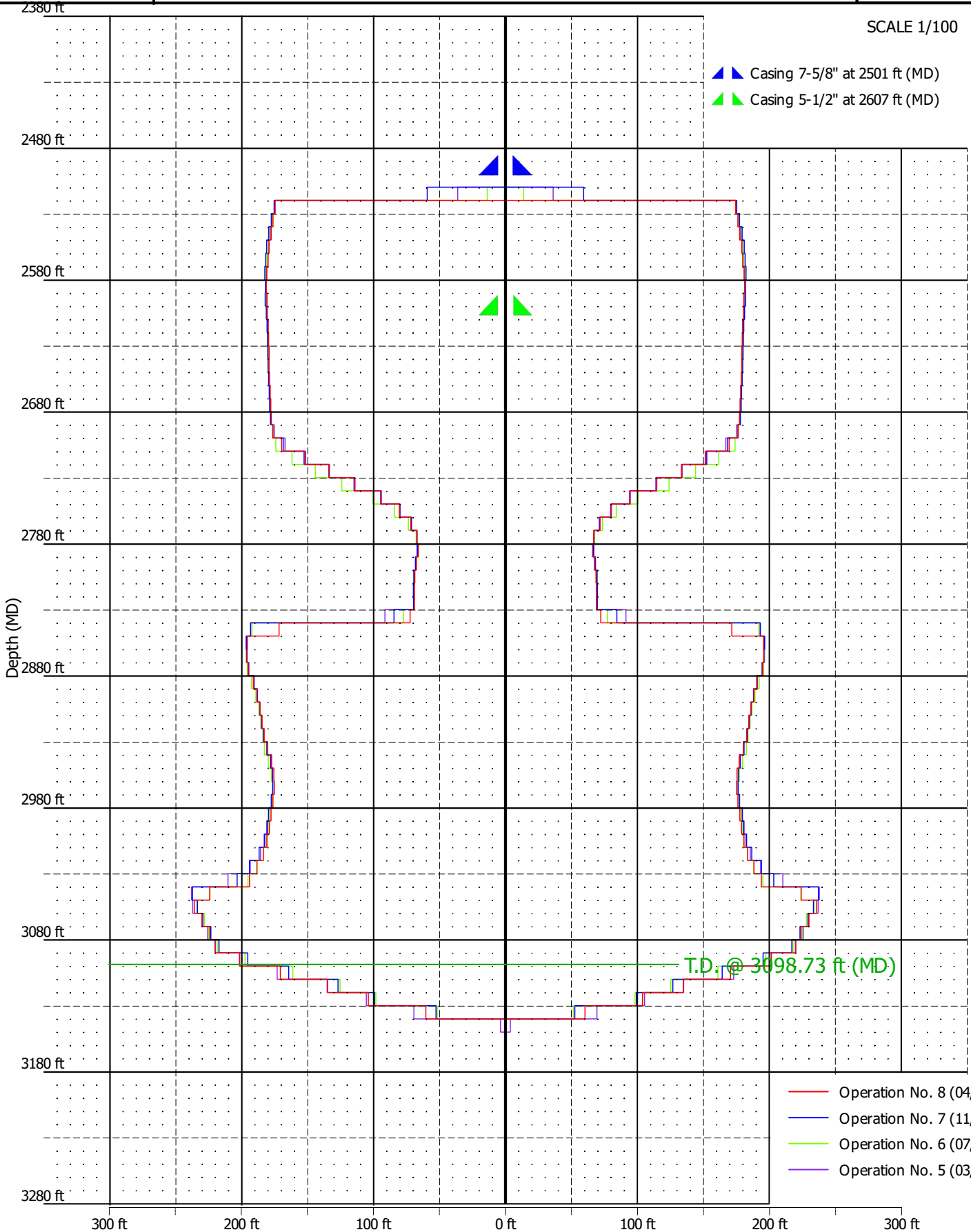
CAVERN : PPG No. 007B
 OPERATION No. : 8



MEAN RADIUS



SCALE 1/100





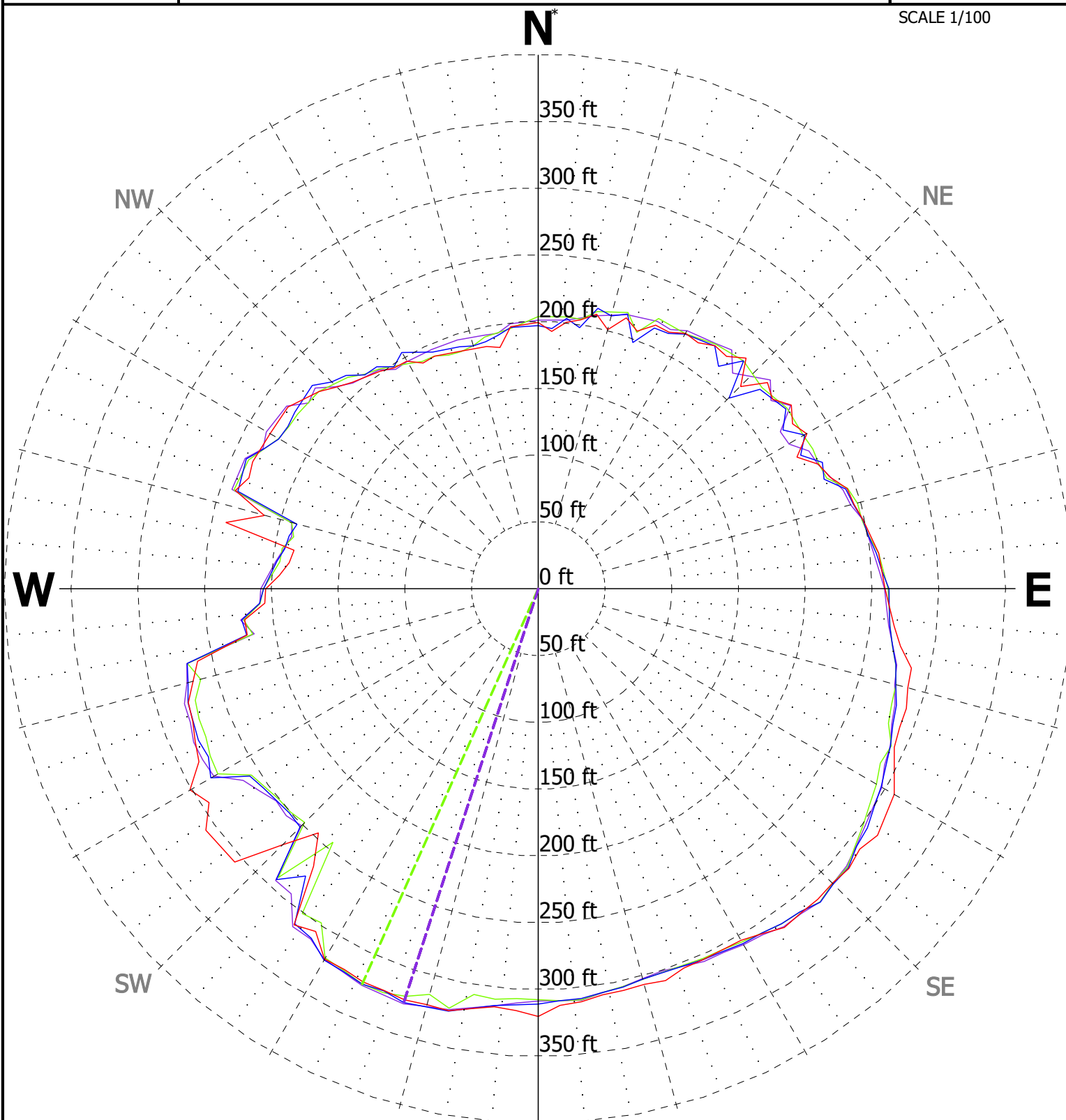
CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



MAXIMUM EXTENSION

SCALE 1/100



- Operation No. 8 (04/24)
- Operation No. 7 (11/23)
- Operation No. 6 (07/23)
- Operation No. 5 (03/23)

Maximum radius	: 323.58 ft
Orientation maxi. radius*	: N198
Depth maxi. radius (MD)	: 3073.11 ft
Surface	: 211676.60 ft ²
Max distance between points	: 549.60 ft

*All sections are oriented to Magnetic North.

Magnetic Declination= 0.7°



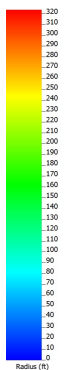
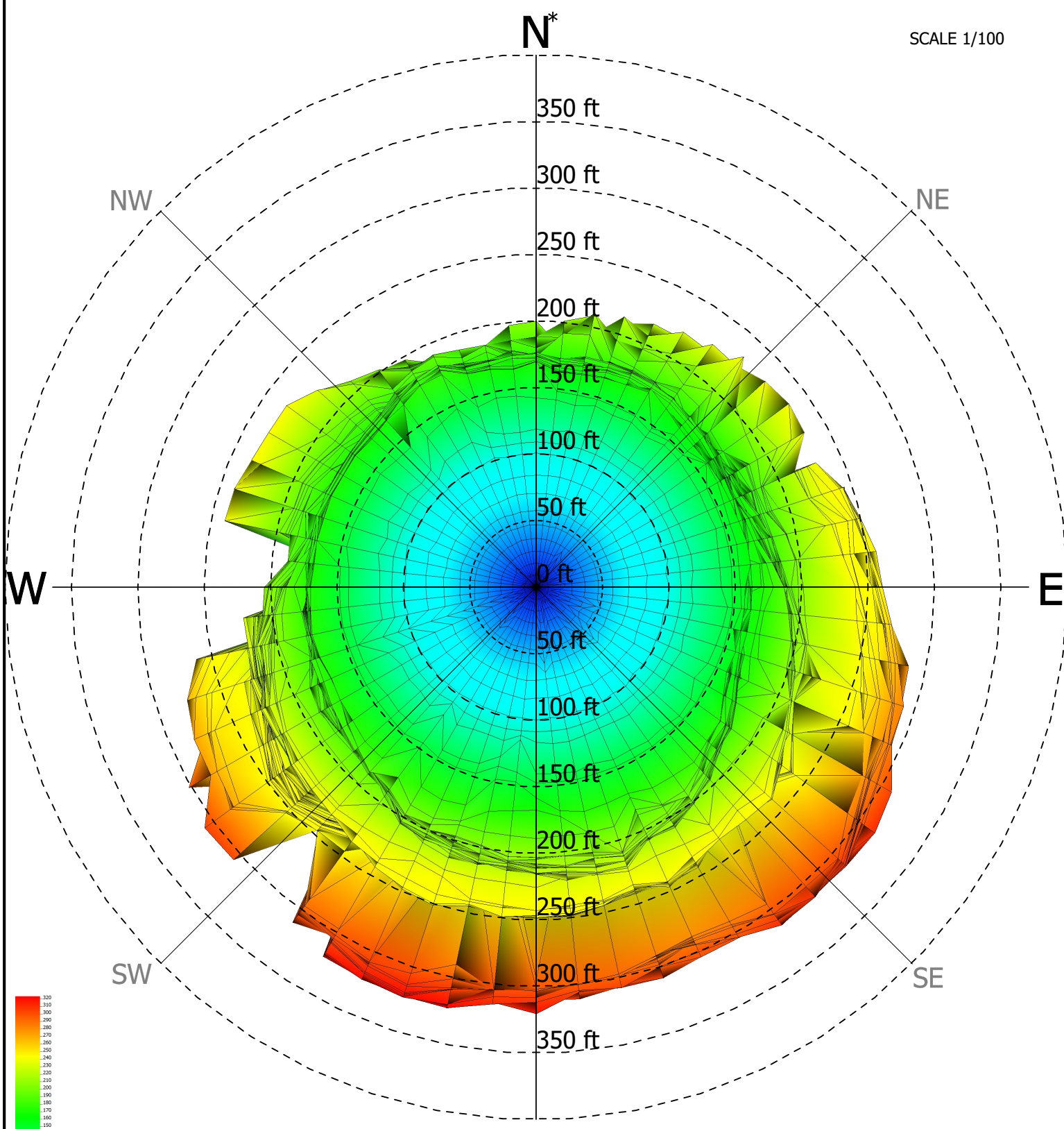
CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



VIEW FROM ABOVE

SCALE 1/100



Maximum radius	: 323.58 ft
Orientation maxi. radius*	: N198
Depth maxi. radius	: 3073.11 ft
Surface	: 214513.60 ft ²
Max distance between points	: 549.60 ft



CUSTOMER : Westlake Chemicals
DATE : April 15, 2024

CAVERN : PPG No. 007B
OPERATION No. : 8



WALL RANGE VS BEARING

Bearing	0.0	3.0	6.0	9.0
0	199.5: 3096.99	192.8: 3071.33	200.7: 3098.17	204.0: 3101.79
12	210.3: 3086.83	197.4: 3075.49	213.4: 3089.62	206.6: 3083.78
24	216.2: 3092.13	215.7: 3092.00	220.9: 3076.36	216.1: 3072.70
36	225.1: 3079.77	220.6: 3076.42	232.5: 3085.80	214.1: 3090.61
48	230.9: 3084.49	221.1: 3076.82	234.2: 3087.14	225.9: 3080.68
60	232.2: 3085.54	210.5: 3068.27	226.7: 3081.08	233.8: 3067.46
72	243.1: 3086.13	244.7: 3075.40	248.6: 3078.13	251.9: 3080.69
84	256.2: 3083.67	257.5: 3083.27	259.6: 3078.13	263.4: 3078.13
96	267.9: 3078.13	274.5: 3083.27	285.6: 3083.27	285.8: 3083.27
108	289.7: 3083.27	289.8: 3083.27	291.7: 3086.96	296.1: 3083.27
120	307.7: 3083.27	310.4: 3083.27	313.9: 3083.27	309.7: 3083.27
132	312.9: 3088.20	311.4: 3078.13	312.8: 3053.06	312.3: 3053.06
144	313.4: 3048.08	307.9: 3048.08	303.8: 3079.55	303.4: 3079.56
156	303.8: 3079.55	304.1: 3083.27	308.4: 3083.27	306.6: 3083.27
168	307.4: 3088.20	307.8: 3083.27	310.8: 3083.27	311.3: 3083.27
180	320.2: 3083.27	316.2: 3083.27	314.6: 3080.69	318.2: 3081.12
192	322.9: 3083.27	322.3: 3081.55	323.6: 3073.11	322.1: 3073.11
204	322.2: 3068.71	319.7: 3078.13	320.0: 3081.26	303.0: 3058.22
216	299.4: 3058.22	266.2: 3043.08	245.9: 3038.62	251.6: 3043.08
228	305.7: 3074.00	306.0: 3074.42	307.5: 3075.04	287.1: 3053.06
240	301.0: 3071.29	285.0: 3062.26	281.0: 3048.08	275.7: 3048.08
252	275.4: 3053.06	265.5: 3048.08	260.7: 3048.08	219.3: 3008.40
264	220.9: 3010.06	203.8: 2978.33	204.0: 2988.35	194.0: 2983.99
276	187.4: 2988.58	185.1: 2988.58	239.0: 3052.75	194.0: 3023.78
288	238.3: 3070.68	221.6: 3041.68	234.0: 3067.49	232.6: 3066.77
300	231.9: 3066.02	231.5: 3065.92	231.6: 3065.78	225.8: 3061.77
312	220.8: 3057.94	213.7: 3090.17	208.1: 3084.88	203.1: 3062.18
324	201.4: 3060.62	196.3: 3094.07	196.9: 3116.14	189.8: 3108.61
336	190.7: 3051.96	188.7: 3050.50	187.2: 3049.07	186.1: 3048.42
348	185.5: 3047.76	182.8: 3045.79	197.4: 3094.93	198.2: 3095.96



CUSTOMER : Westlake Chemicals
DATE : April 15, 2024

CAVERN : PPG No. 007B
OPERATION No. : 8



**Wall Range versus Depth
(N, NE, E, SE, S, SW, W, NW)**

DEPTH	TILT	N	NE	E	SE	S	SW	W	NW
2501.1	0	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
2512.0	0	0.50	0.60	0.60	0.50	0.50	0.50	0.50	0.50
2514.0	0	9.84	8.83	20.84	59.01	20.84	33.95	10.71	14.67
2516.0	0	169.25	153.00	153.19	177.53	158.22	183.17	168.38	166.77
2518.0	0	169.47	159.19	156.67	178.48	202.74	182.15	172.11	167.65
2528.2	0	170.62	160.43	155.93	176.93	204.23	184.43	171.37	168.02
2537.7	0	172.87	163.18	157.93	181.14	207.73	185.90	173.12	170.77
2547.8	0	175.12	168.91	160.17	185.85	210.73	184.40	172.63	171.52
2558.0	0	176.11	170.51	161.17	186.95	210.97	182.96	171.63	172.51
2568.1	0	173.84	168.78	161.67	186.59	214.71	182.09	171.46	173.54
2578.1	0	173.39	169.66	161.19	187.67	215.23	182.48	172.14	173.39
2588.0	0	173.39	166.65	158.70	184.80	212.99	183.22	169.65	171.29
2598.1	0	171.99	168.50	159.18	188.50	215.50	182.87	168.92	171.42
2603.0	0	171.66	169.90	157.96	189.19	214.75	185.48	169.92	170.55
2608.0	0	171.89	167.78	158.67	185.77	214.79	184.23	169.40	170.66
2613.1	-60	142.03	152.46	153.74	158.14	179.79	172.77	151.52	147.26
2613.1	-55	142.63	152.81	150.71	160.60	178.19	165.61	151.52	147.31
2613.1	-50	145.00	153.62	167.21	163.43	177.94	160.24	154.75	149.40
2613.1	-45	147.49	157.06	173.95	166.52	181.18	166.58	157.23	156.52
2613.1	-40	154.23	165.02	179.94	170.06	184.68	173.43	162.22	160.58
2613.1	-35	161.22	171.04	181.68	176.27	189.17	178.71	166.71	170.70
2613.1	-30	174.43	179.14	180.43	186.98	196.16	189.86	169.83	179.22
2613.1	-25	182.68	181.83	171.70	201.86	208.14	196.33	182.21	185.02
2613.1	0	171.30	167.14	158.23	185.48	213.40	183.21	168.95	170.42
2613.1	5	172.61	169.11	159.80	188.28	216.27	183.56	169.57	172.03
2613.1	10	176.53	172.75	163.98	190.28	218.10	185.75	174.70	175.11
2613.1	15	179.93	174.71	167.12	193.45	218.26	189.49	177.32	179.57
2613.1	20	185.68	179.45	172.09	196.25	220.81	196.46	181.24	184.02
2613.1	25	189.34	182.85	175.49	197.49	223.57	203.11	188.04	188.21
2613.1	30	195.10	186.51	178.89	201.01	193.00	199.22	195.36	192.79
2613.1	35	172.87	174.40	168.95	174.12	170.78	168.91	171.57	172.05
2613.1	40	154.31	154.57	151.43	152.61	151.70	153.90	153.00	152.47
2613.1	45	141.76	139.43	140.71	139.28	140.71	139.31	139.15	139.57
2613.1	50	130.00	128.74	127.38	129.52	128.95	126.65	128.43	129.40
2613.1	55	121.88	120.30	120.26	120.10	121.07	121.41	120.46	121.62
2613.1	60	114.00	114.77	113.80	114.26	114.81	113.76	114.00	114.67
2613.1	65	109.35	109.33	109.35	109.63	110.57	108.92	108.34	108.62
2613.1	70	105.51	105.19	105.72	105.69	105.72	104.97	104.91	105.29



CUSTOMER : Westlake Chemicals
DATE : April 15, 2024

CAVERN : PPG No. 007B
OPERATION No. : 8



**Wall Range versus Depth
(N, NE, E, SE, S, SW, W, NW)**

DEPTH	TILT	N	NE	E	SE	S	SW	W	NW
2613.1	75	102.48	102.27	102.08	102.47	102.08	102.28	102.08	101.97
2613.1	80	99.86	100.06	100.26	100.36	100.26	100.26	100.06	100.15
2613.1	85	99.05	98.98	99.05	99.15	99.05	99.05	99.05	99.05
2613.1	89	100.23	100.23	100.25	100.25	100.23	100.23	100.23	100.23
2618.1	0	171.66	166.98	158.84	183.97	213.78	183.70	169.04	170.38
2623.1	0	171.41	166.86	158.33	183.98	214.57	184.75	168.79	170.13
2628.0	0	170.91	167.01	158.35	185.24	213.03	184.26	168.55	170.28
2633.0	0	170.67	167.06	158.18	184.95	214.13	184.15	168.67	169.93
2638.0	0	169.67	167.80	158.17	186.67	211.63	183.27	168.92	170.43
2648.0	0	170.20	167.45	157.45	185.68	212.42	183.31	168.70	170.46
2658.0	0	169.95	166.20	157.20	184.97	212.17	182.93	168.20	170.46
2668.3	0	169.47	165.12	157.48	186.34	213.20	182.09	169.47	169.86
2678.1	0	168.73	164.61	157.48	185.09	211.71	179.05	168.48	170.24
2687.9	0	168.49	164.70	157.49	185.62	211.72	178.29	170.24	170.25
2698.6	0	157.25	164.38	157.50	183.27	211.48	178.68	146.00	163.77
2707.9	0	125.26	149.94	157.25	159.50	187.99	165.04	137.75	144.84
2718.1	0	103.67	129.74	149.00	138.24	167.74	142.22	123.38	120.78
2727.8	0	86.47	105.24	139.23	121.53	151.76	130.06	108.53	96.03
2738.1	0	70.29	88.16	85.40	105.94	138.27	99.91	86.05	78.64
2748.3	0	69.54	68.70	75.03	87.59	116.71	95.77	75.53	60.24
2758.2	0	55.06	59.72	69.81	75.33	103.78	89.47	66.56	47.70
2768.2	0	58.32	57.98	67.07	63.84	91.07	84.20	62.82	44.65
2778.3	0	59.32	55.74	65.07	64.45	78.82	84.06	60.82	49.23
2788.2	0	58.32	53.36	65.57	65.46	80.07	85.95	64.57	53.37
2798.0	0	60.07	52.75	64.82	65.86	87.83	89.79	64.32	54.24
2803.1	0	59.07	53.37	64.82	66.11	87.83	89.92	65.07	54.74
2808.0	0	59.07	52.87	65.32	66.11	88.08	90.44	65.07	54.49
2813.3	0	57.57	52.87	64.07	66.73	87.58	90.83	65.07	54.11
2818.3	0	57.82	52.99	64.07	66.86	87.58	89.45	66.32	53.99
2822.9	0	58.83	53.25	64.08	66.98	87.08	90.20	67.83	53.97
2828.0	0	59.58	53.63	64.33	67.11	86.84	90.73	67.83	53.72
2833.0	0	91.34	72.01	68.83	67.61	86.84	91.95	68.58	64.79
2838.0	0	102.09	78.80	77.83	75.98	86.84	92.20	70.08	159.88
2843.1	0	151.60	86.78	177.80	126.32	86.69	227.87	187.62	160.34
2848.1	0	152.19	149.53	185.84	234.36	246.27	228.09	190.35	160.35
2853.0	0	151.90	150.94	184.94	234.30	248.36	225.53	184.94	162.69
2858.0	0	151.91	151.98	185.85	233.59	247.79	225.70	184.36	162.55
2863.4	0	152.21	151.99	184.96	233.71	246.89	225.53	180.20	162.41



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



**Wall Range versus Depth
 (N, NE, E, SE, S, SW, W, NW)**

DEPTH	TILT	N	NE	E	SE	S	SW	W	NW
2868.2	0	152.51	152.72	184.61	230.05	246.89	224.64	180.67	162.55
2878.1	0	146.25	154.95	184.66	222.73	240.34	222.41	173.05	155.56
2888.1	0	142.09	156.02	188.25	212.82	240.06	219.75	170.08	153.05
2897.9	0	136.14	154.84	187.06	211.01	235.60	224.08	168.95	146.51
2898.0	-75	187.94	200.55	210.81	214.91	206.25	197.90	202.78	184.06
2898.0	-70	173.93	184.73	214.90	234.24	216.78	199.32	197.74	172.20
2898.0	-65	161.69	159.68	229.14	253.65	233.76	207.19	194.31	162.72
2898.0	-60	152.76	180.69	241.20	268.80	255.46	224.35	196.64	155.53
2898.0	-57	277.23	198.56	235.85	275.79	261.08	231.94	198.02	155.74
2898.0	-54	281.40	224.90	240.13	284.96	266.81	237.31	178.46	164.33
2898.0	-51	285.15	260.26	254.72	300.80	295.16	241.55	178.24	272.94
2898.0	-48	289.74	270.92	267.64	313.29	304.24	243.48	190.52	281.19
2898.0	-45	281.40	283.71	294.32	326.75	315.59	246.88	187.62	283.29
2898.0	-42	249.72	287.65	298.91	339.91	326.01	245.30	183.99	287.00
2898.0	-39	239.30	272.13	321.01	345.91	346.85	251.87	185.52	270.45
2898.0	-36	231.37	190.86	320.17	355.88	353.94	260.27	193.44	261.84
2898.0	-33	174.56	184.19	225.30	199.00	217.81	278.86	191.35	221.95
2898.0	-30	146.33	176.12	208.96	194.07	210.94	289.22	196.36	189.10
2898.0	-27	135.49	172.00	203.78	189.88	207.19	271.12	199.80	163.77
2898.0	-24	131.74	170.91	197.61	187.55	205.51	260.79	222.62	148.24
2908.2	0	135.84	154.84	185.27	208.89	232.03	225.04	170.98	147.84
2918.3	-80	175.21	184.73	178.25	188.36	182.91	179.55	176.30	174.43
2918.3	-75	171.31	187.03	190.36	192.05	186.82	177.82	183.01	166.46
2918.3	-70	163.50	166.26	193.70	208.46	193.23	178.34	180.10	159.79
2918.3	-65	152.77	155.43	204.84	229.83	206.28	183.80	180.47	146.98
2918.3	-60	140.08	143.24	217.98	245.31	226.33	196.62	179.09	143.10
2918.3	10	140.68	157.98	187.38	216.42	251.70	225.46	172.49	152.92
2918.3	15	150.80	160.01	190.95	242.17	256.49	233.61	187.08	163.94
2918.3	20	161.78	161.65	197.07	241.97	258.21	237.11	202.86	172.82
2918.3	25	167.62	165.16	188.16	194.85	194.42	197.35	200.48	176.92
2918.3	30	170.40	154.18	152.53	147.93	155.81	162.55	172.07	164.42
2918.3	35	135.56	130.66	140.61	141.07	131.69	132.29	143.90	143.40
2918.3	40	128.41	115.06	118.29	126.21	115.31	123.62	124.84	130.83
2918.3	45	125.13	112.40	112.03	113.44	122.35	127.88	112.33	119.69
2918.3	50	115.90	111.22	109.65	106.91	135.70	140.81	107.86	109.88
2918.3	55	108.46	108.26	111.40	116.24	149.36	152.19	117.14	104.49
2918.3	60	114.92	107.05	130.50	131.50	157.00	166.67	129.35	105.76
2918.3	65	138.76	125.21	153.08	153.41	445.48	434.82	149.89	128.36



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



**Wall Range versus Depth
 (N, NE, E, SE, S, SW, W, NW)**

DEPTH	TILT	N	NE	E	SE	S	SW	W	NW
2918.3	70	164.16	429.68	427.74	431.03	428.43	429.89	429.27	145.39
2918.3	75	419.03	418.27	417.59	417.58	417.69	417.28	417.60	417.72
2918.3	80	411.09	409.85	409.61	409.81	410.39	410.41	409.89	410.87
2918.3	85	405.79	405.50	405.93	405.95	405.93	405.32	405.23	405.57
2918.3	0	131.69	154.40	184.70	206.39	226.09	227.51	173.98	136.97
2928.2	0	127.52	154.40	184.99	197.93	221.92	229.91	177.25	133.55
2938.1	0	125.73	154.86	184.99	186.15	214.48	231.80	178.74	125.25
2948.1	0	121.87	155.23	184.41	177.32	200.20	232.99	182.63	126.90
2958.1	0	119.19	155.59	184.42	174.92	195.73	234.04	194.76	135.99
2968.0	0	125.05	156.66	182.05	172.40	194.56	236.74	200.52	141.85
2978.3	0	130.22	155.22	181.16	168.86	192.47	235.81	201.11	148.37
2988.6	0	140.66	154.00	182.23	169.32	187.43	238.55	172.24	160.71
2998.1	0	151.38	154.98	182.00	169.46	185.05	236.94	173.73	168.26
3003.2	0	154.67	155.15	181.49	169.22	183.27	238.38	157.95	172.15
3008.4	0	157.65	154.58	184.47	165.55	184.47	241.01	158.90	177.20
3013.3	0	163.91	155.49	185.66	168.72	182.68	240.16	154.38	180.63
3018.2	0	166.89	159.86	188.45	178.04	183.58	240.57	137.40	186.13
3023.9	0	173.16	165.33	191.04	204.42	185.08	242.78	137.11	190.43
3028.1	0	179.42	170.17	196.40	211.76	189.16	242.52	135.02	85.64
3033.1	0	76.03	177.09	196.40	215.98	189.25	244.89	131.45	77.39
3038.6	0	71.26	182.65	239.32	219.16	301.57	248.22	108.21	72.39
3043.1	0	67.80	67.57	235.31	306.70	301.38	251.64	104.84	71.37
3048.1	-87	52.06	51.98	52.06	50.43	49.73	49.96	50.51	51.75
3048.1	-84	53.61	51.13	51.44	50.43	49.73	48.80	49.11	51.28
3048.1	-81	52.06	50.04	51.90	50.58	49.89	48.88	47.56	52.05
3048.1	-78	56.39	48.96	52.52	49.65	49.89	48.18	46.17	49.35
3048.1	-75	55.00	49.19	52.21	49.81	49.89	47.16	46.32	53.52
3048.1	-72	57.01	51.04	52.21	51.28	50.66	48.20	46.01	53.99
3048.1	-69	57.79	52.47	50.82	51.87	51.59	49.09	46.63	54.60
3048.1	-66	58.10	54.75	50.66	52.98	52.83	50.76	48.34	52.20
3048.1	-63	51.75	55.60	51.75	61.18	54.23	52.42	49.42	53.40
3048.1	-60	50.20	56.98	52.68	64.14	57.63	55.91	51.13	51.79
3048.1	-57	51.44	64.01	54.38	68.67	60.42	56.29	52.53	51.32
3048.1	-54	52.83	65.88	57.48	69.68	60.58	56.91	52.83	51.72
3048.1	-51	53.92	68.30	64.61	72.47	67.70	57.06	61.04	51.38
3048.1	-48	54.54	70.05	72.97	75.01	69.10	58.45	66.16	52.56
3048.1	-45	55.47	70.13	76.23	83.95	70.96	61.85	66.62	52.48
3048.1	-42	55.77	68.27	77.47	101.70	73.13	62.23	69.87	52.58



CUSTOMER : Westlake Chemicals
DATE : April 15, 2024

CAVERN : PPG No. 007B
OPERATION No. : 8



**Wall Range versus Depth
(N, NE, E, SE, S, SW, W, NW)**

DEPTH	TILT	N	NE	E	SE	S	SW	W	NW
3048.1	-39	56.86	67.46	83.66	125.41	81.80	65.55	68.17	52.69
3048.1	-36	57.21	64.69	87.30	136.59	91.77	66.23	69.59	52.87
3048.1	-33	57.80	62.47	103.09	152.00	106.66	70.08	73.00	53.87
3048.1	-30	58.40	60.87	117.39	161.78	143.61	75.31	73.00	55.25
3048.1	-27	58.99	60.82	131.99	180.95	154.33	81.37	78.66	57.27
3048.1	-24	60.71	63.62	134.91	206.37	165.30	91.97	83.35	57.58
3048.1	-21	60.23	66.99	136.46	230.40	214.22	126.61	85.21	58.00
3048.1	-18	59.78	69.08	139.48	255.73	236.40	141.70	85.59	57.89
3048.1	-15	58.87	68.37	218.66	271.95	264.33	151.47	96.91	57.83
3048.1	-12	62.04	67.18	249.44	291.47	283.95	162.33	99.97	59.36
3048.1	-9	63.04	65.90	259.04	307.57	310.67	168.27	105.73	59.44
3048.1	-6	65.71	65.68	257.68	311.08	312.48	178.76	108.69	59.99
3048.1	-3	66.83	66.04	250.44	311.09	301.62	190.64	105.07	62.11
3048.1	0	68.46	66.66	236.65	307.78	299.38	214.18	102.83	66.96
3053.1	0	66.80	66.23	242.01	309.22	299.74	209.87	105.63	61.04
3058.2	0	61.93	65.77	252.02	309.92	299.74	188.25	108.35	60.29
3064.3	0	57.78	67.16	254.11	311.39	301.11	180.79	105.13	56.82
3068.7	0	57.09	66.48	251.00	311.05	299.39	176.21	98.22	54.79
3073.1	0	56.05	61.19	255.44	311.11	300.08	174.24	94.07	52.32
3078.1	3	52.78	56.25	254.09	311.23	303.53	176.36	93.94	48.78
3078.1	6	56.42	64.21	242.86	309.00	301.61	189.19	100.55	52.82
3078.1	9	57.64	67.37	240.61	246.96	298.00	251.25	109.88	54.95
3078.1	12	58.77	68.42	204.68	220.20	199.15	248.17	109.10	56.88
3078.1	15	60.20	68.33	203.30	209.45	195.69	248.52	109.28	58.32
3078.1	18	65.04	69.13	197.42	189.60	192.93	250.37	109.63	63.24
3078.1	21	71.63	70.83	196.84	180.51	197.16	255.19	117.23	64.48
3078.1	24	74.76	72.77	199.15	185.11	202.44	260.62	174.61	69.06
3078.1	27	76.08	75.50	204.33	190.97	207.79	262.80	190.85	80.54
3078.1	30	169.77	177.55	209.42	196.86	220.23	268.10	228.18	83.46
3078.1	33	167.00	183.89	219.50	205.53	238.40	274.23	228.87	179.52
3078.1	36	166.31	193.17	227.91	218.49	284.74	280.09	224.41	180.63
3078.1	39	165.97	199.86	237.67	266.69	308.68	288.02	228.81	179.42
3078.1	42	166.43	208.12	248.64	286.25	333.52	299.29	234.80	181.17
3078.1	45	168.94	218.05	265.39	332.96	341.07	318.58	241.12	181.64
3078.1	48	186.84	231.04	276.95	328.18	336.35	328.07	250.21	183.81
3078.1	51	212.17	247.19	294.46	314.33	312.75	313.54	299.39	236.17
3078.1	55	264.49	264.91	293.47	294.30	294.65	297.10	298.59	279.67
3078.1	60	284.43	273.71	274.20	270.98	274.59	278.05	284.03	279.15



CUSTOMER : Westlake Chemicals

CAVERN : PPG No. 007B

DATE : April 15, 2024

OPERATION No. : 8



**Wall Range versus Depth
(N, NE, E, SE, S, SW, W, NW)**

DEPTH	TILT	N	NE	E	SE	S	SW	W	NW
3078.1	0	50.87	53.27	259.64	311.44	308.03	165.46	80.34	44.64
3083.3	0	45.29	52.91	259.61	308.31	320.15	157.48	72.07	39.61
3088.2	0	37.94	52.55	256.63	308.41	309.78	52.80	58.08	32.61



CUSTOMER : Westlake Chemicals
DATE : April 15, 2024

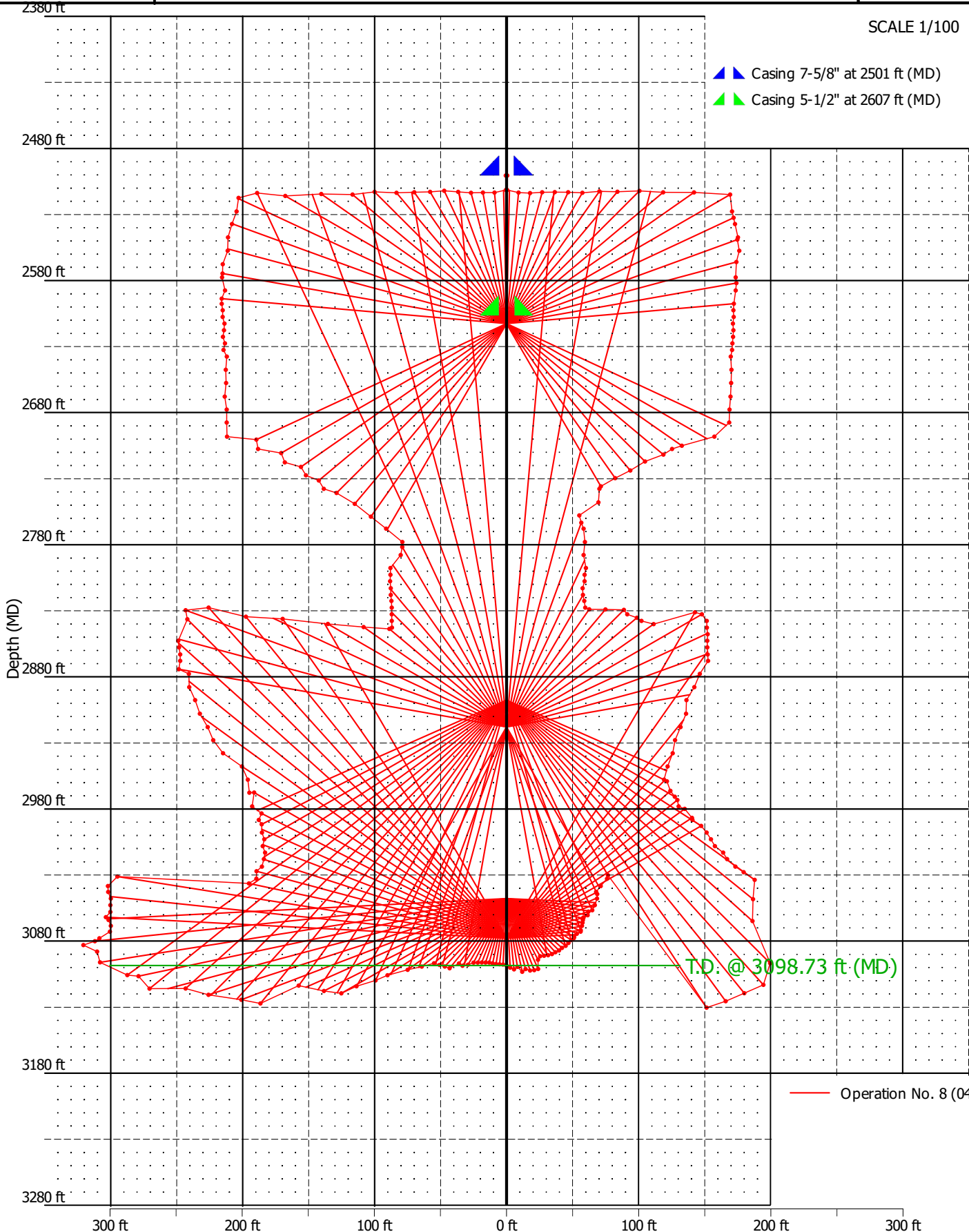
CAVERN : PPG No. 007B
OPERATION No. : 8



TILTED SECTIONS POSITION

← N180 **1** N0 →

SCALE 1/100



▲ Casing 7-5/8" at 2501 ft (MD)
▲ Casing 5-1/2" at 2607 ft (MD)

T.D. @ 3098.73 ft (MD)

— Operation No. 8 (04/24)



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

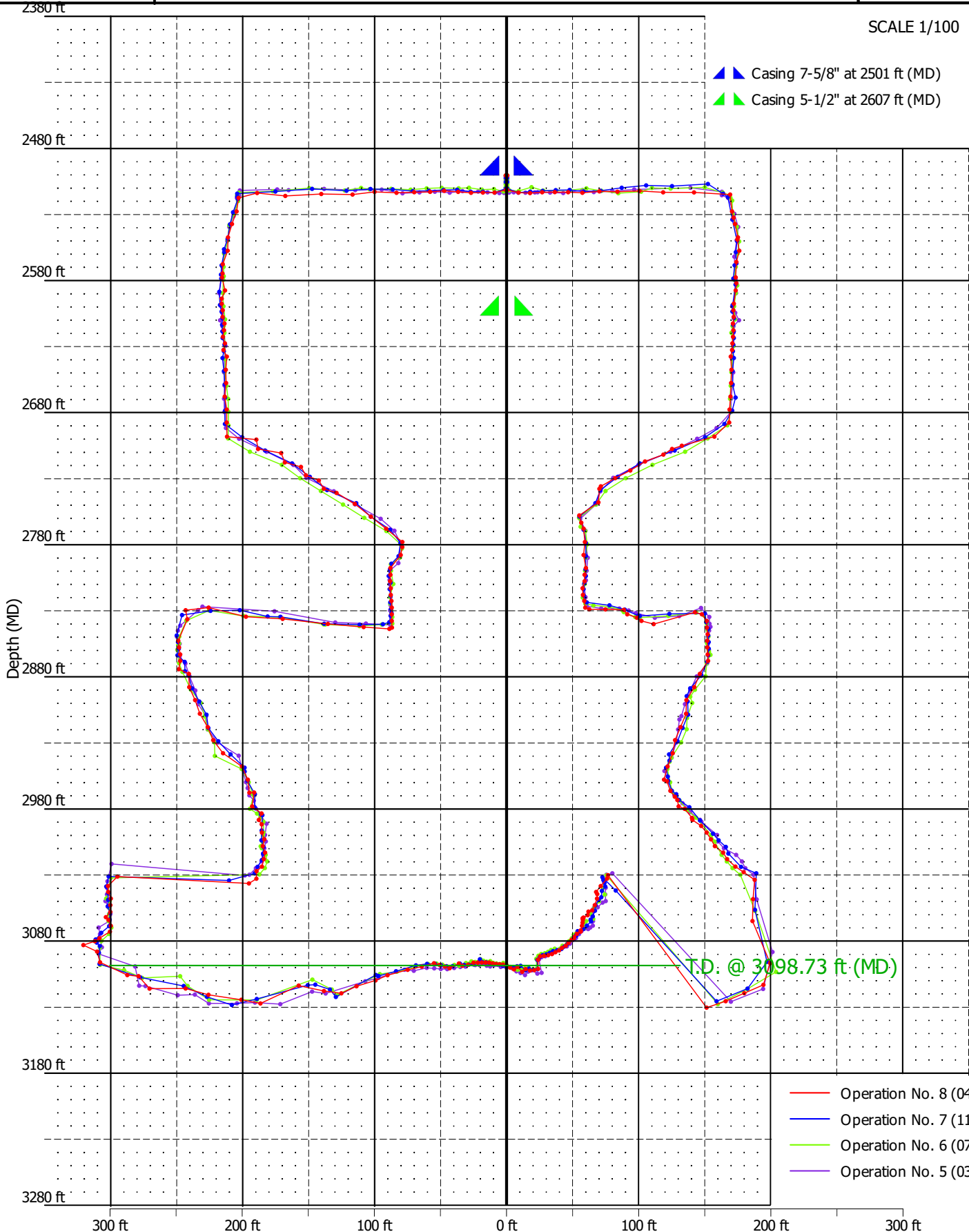
CAVERN : PPG No. 007B
 OPERATION No. : 8



VERTICAL SECTION

← N180 **1** NO →

SCALE 1/100



- Operation No. 8 (04/24)
- Operation No. 7 (11/23)
- Operation No. 6 (07/23)
- Operation No. 5 (03/23)



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



VERTICAL SECTION

← N195

2

N15 →

SCALE 1/100





CUSTOMER : Westlake Chemicals
DATE : April 15, 2024

CAVERN : PPG No. 007B
OPERATION No. : 8



VERTICAL SECTION

N210 ← 3 → N30

SCALE 1/100





CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

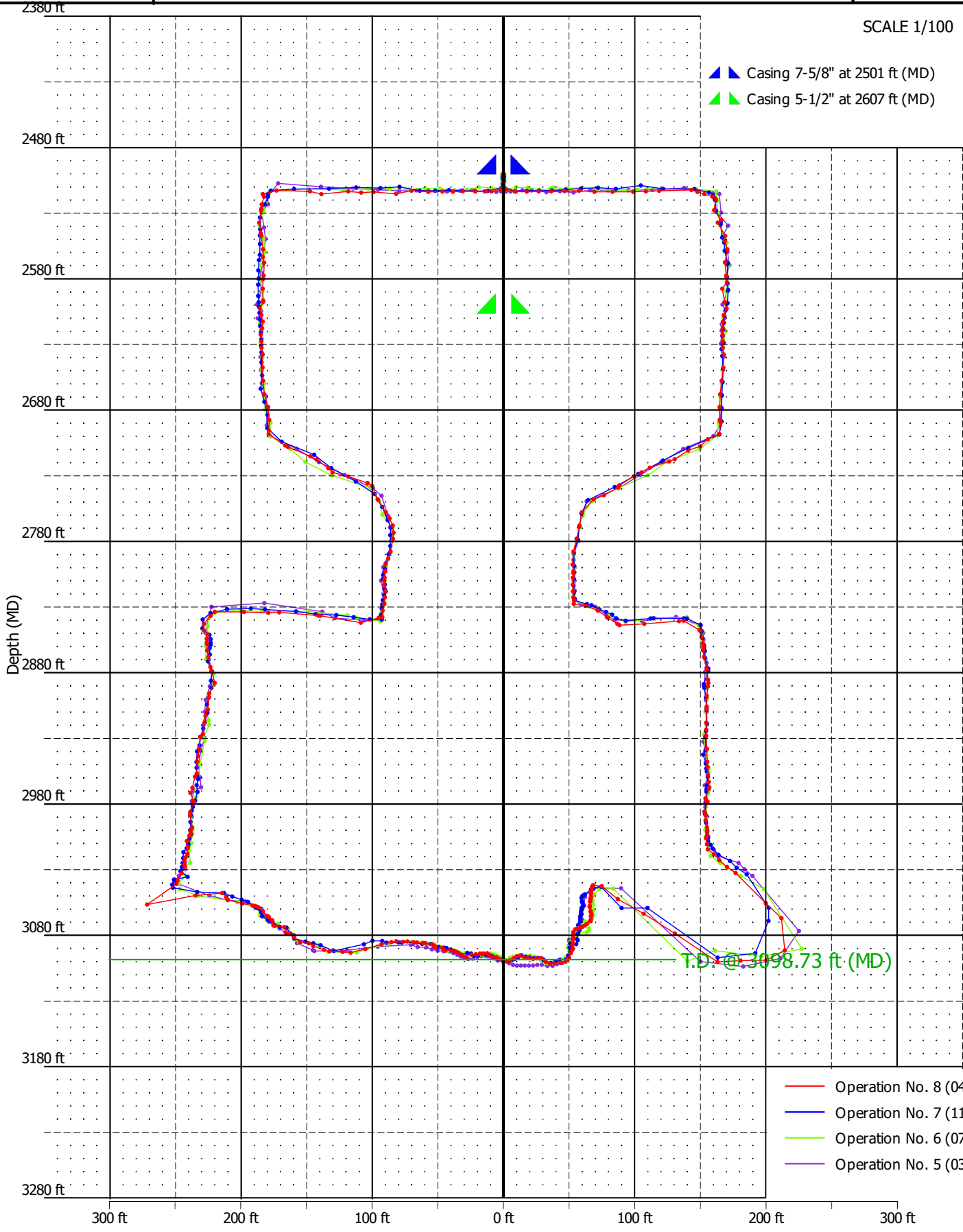
CAVERN : PPG No. 007B
 OPERATION No. : 8



VERTICAL SECTION

← N225 **4** N45 →

SCALE 1/100





CUSTOMER : Westlake Chemicals
DATE : April 15, 2024

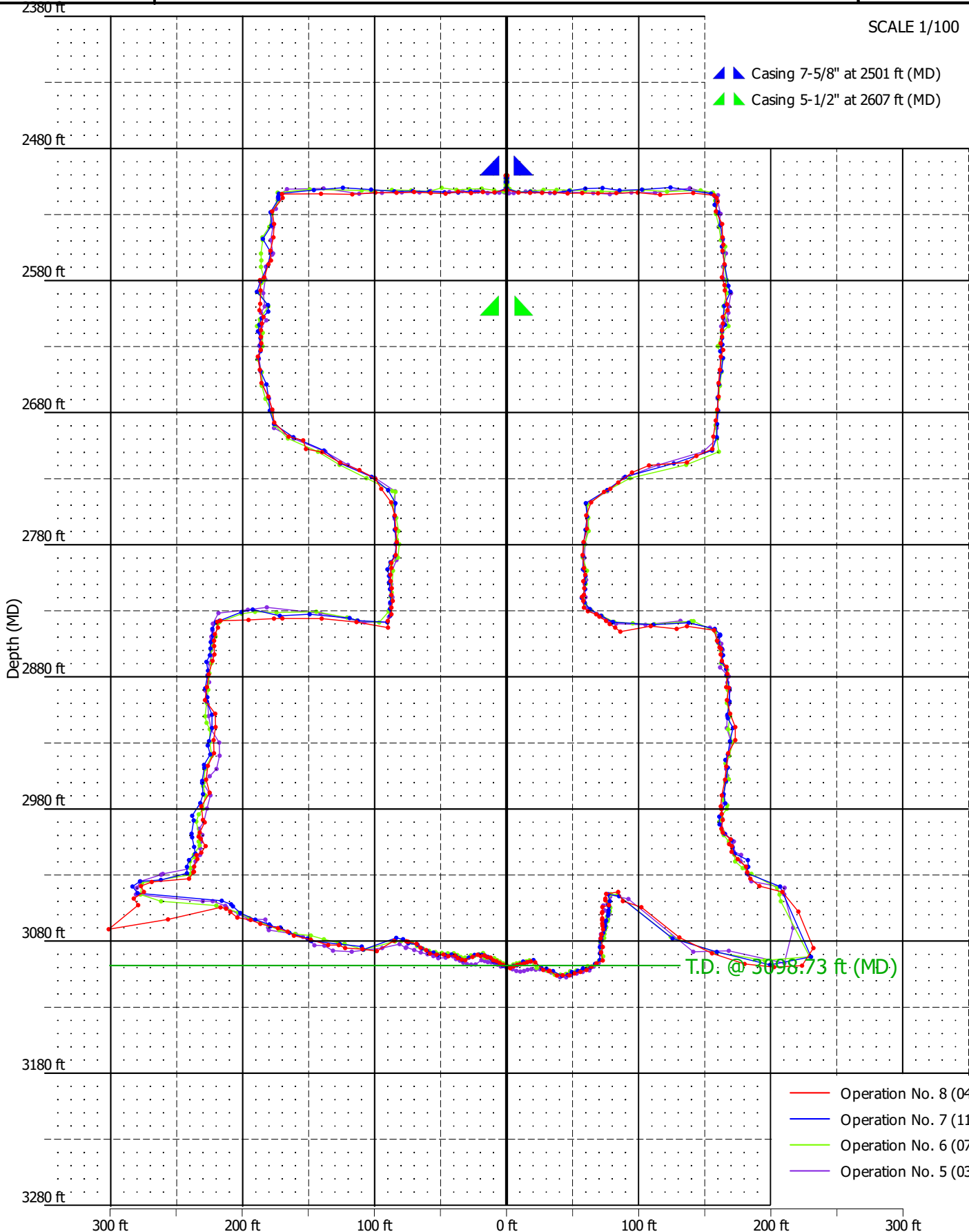
CAVERN : PPG No. 007B
OPERATION No. : 8



VERTICAL SECTION

← N240 5 N60 →

SCALE 1/100





CUSTOMER : Westlake Chemicals
DATE : April 15, 2024

CAVERN : PPG No. 007B
OPERATION No. : 8



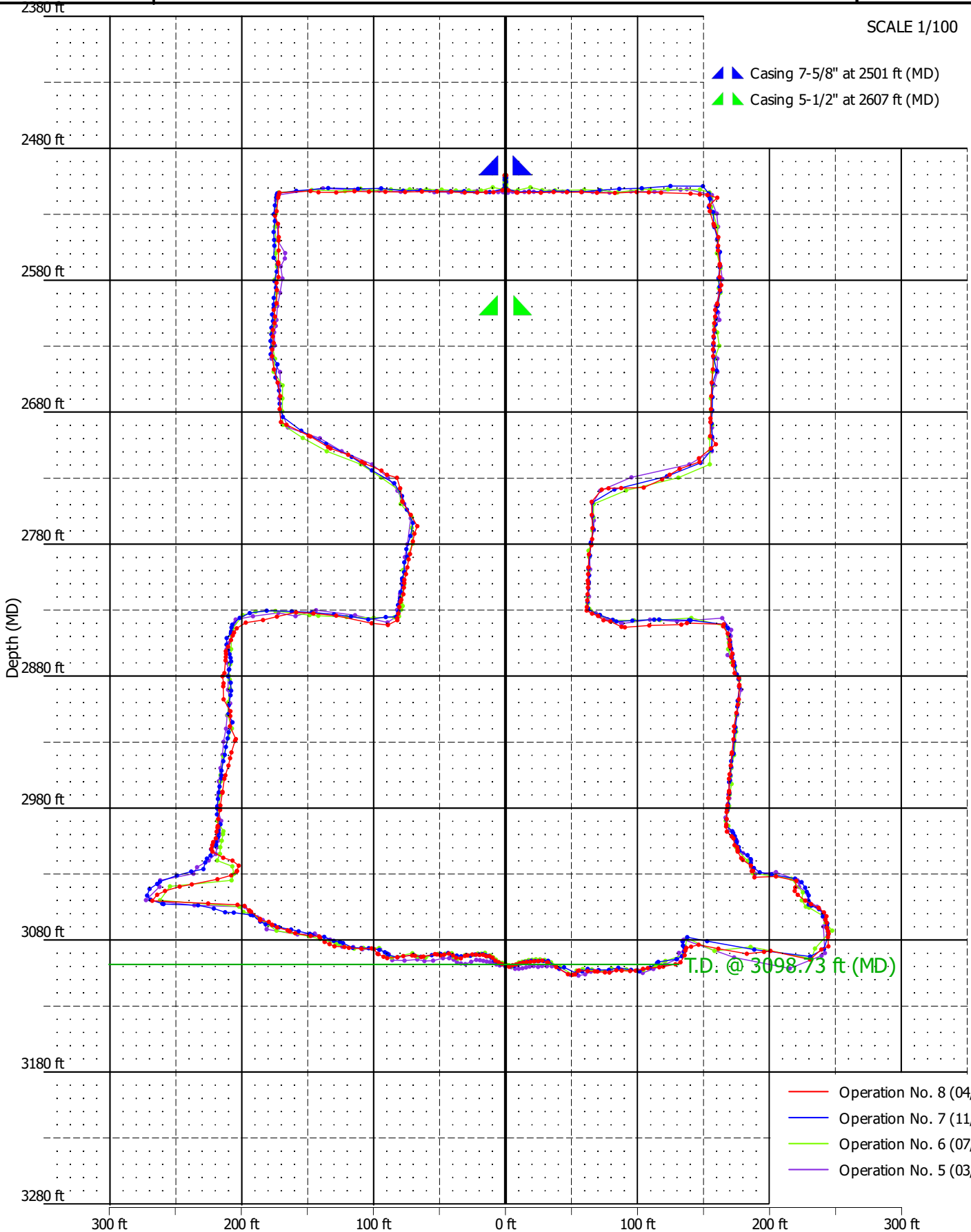
VERTICAL SECTION

N255 ←

6

→ N75

SCALE 1/100





CUSTOMER : Westlake Chemicals
DATE : April 15, 2024

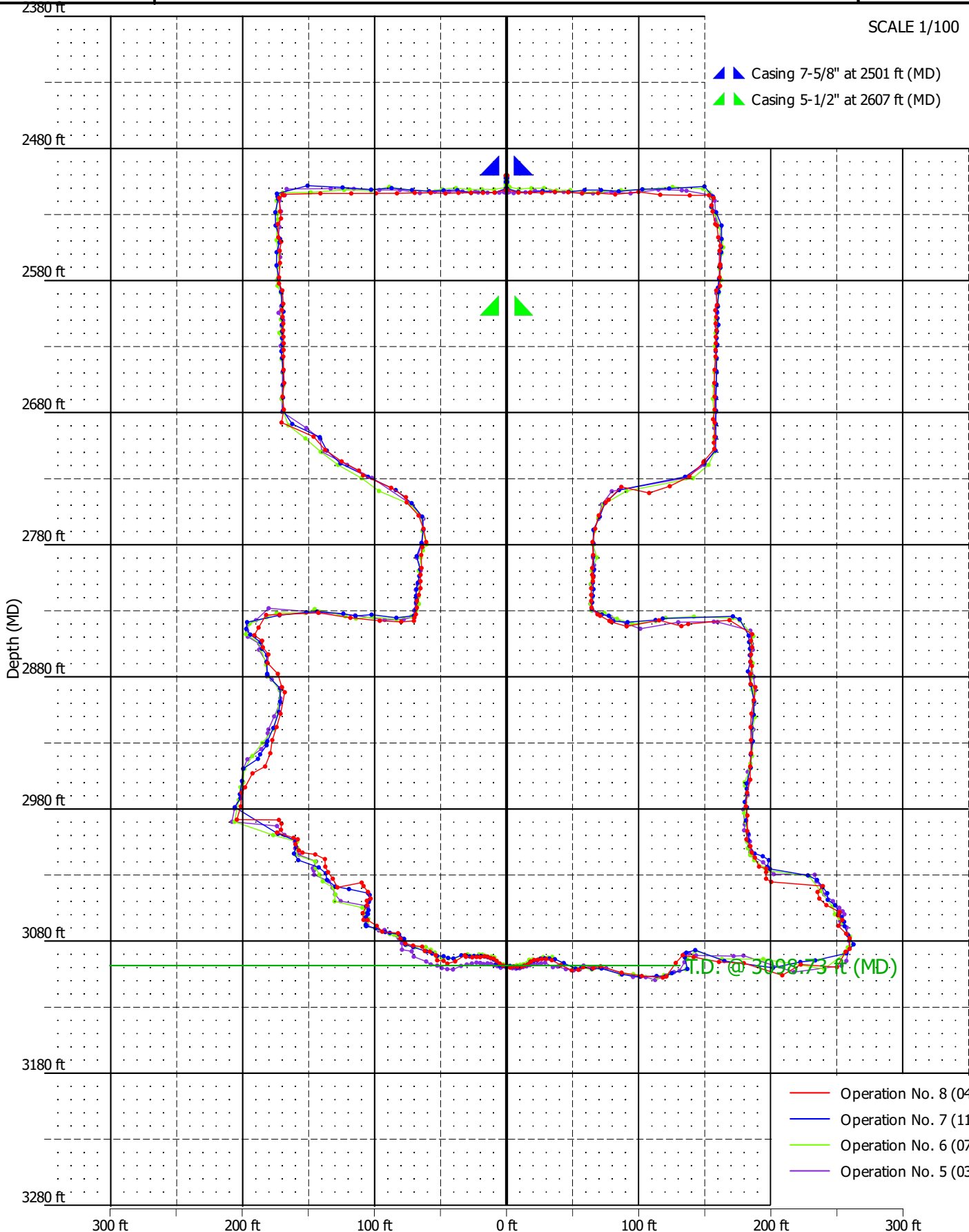
CAVERN : PPG No. 007B
OPERATION No. : 8



VERTICAL SECTION

← N270 7 N90 →

SCALE 1/100





CUSTOMER : Westlake Chemicals
DATE : April 15, 2024

CAVERN : PPG No. 007B
OPERATION No. : 8



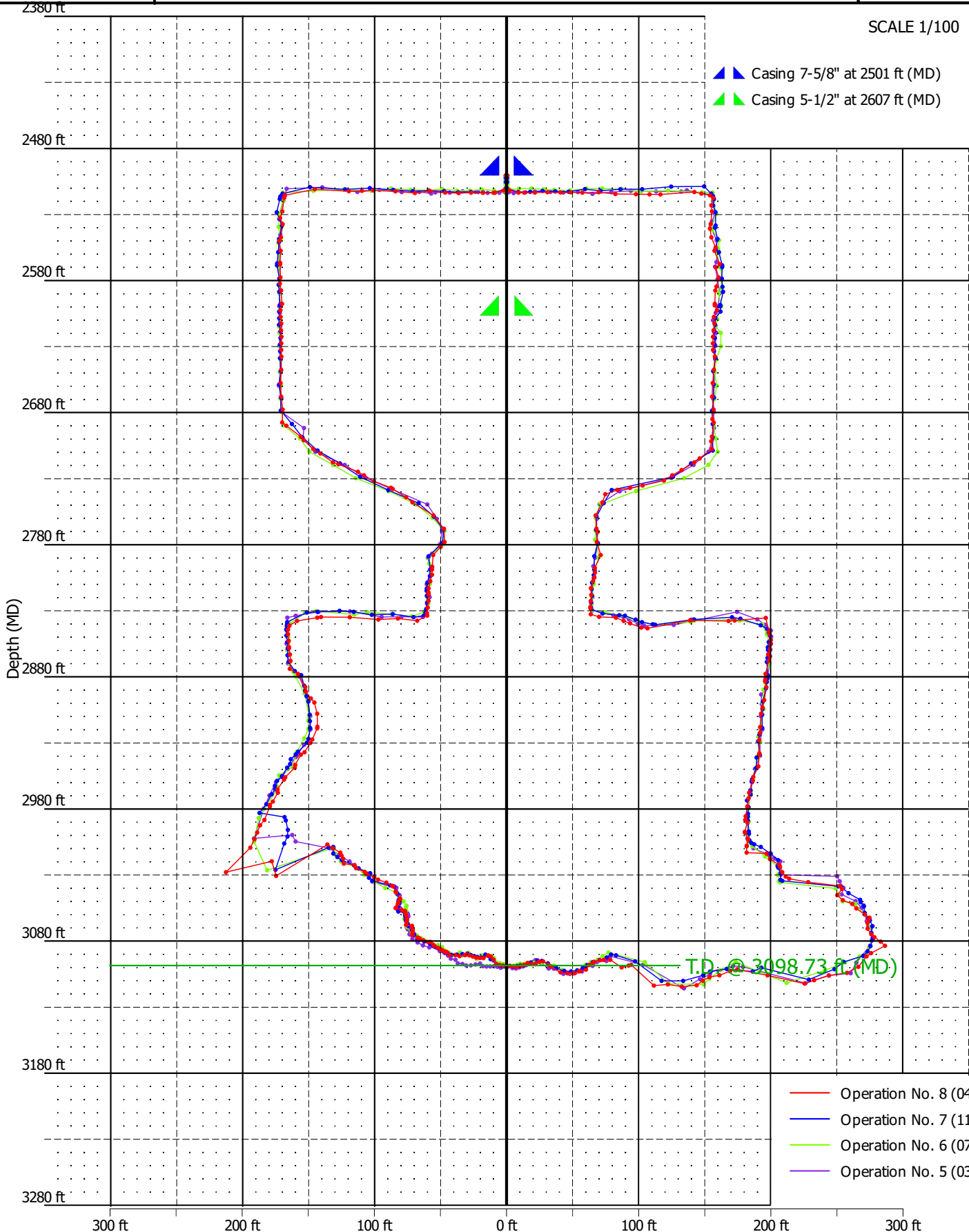
VERTICAL SECTION

N285 ←

8

→ N105

SCALE 1/100





CUSTOMER : Westlake Chemicals
DATE : April 15, 2024

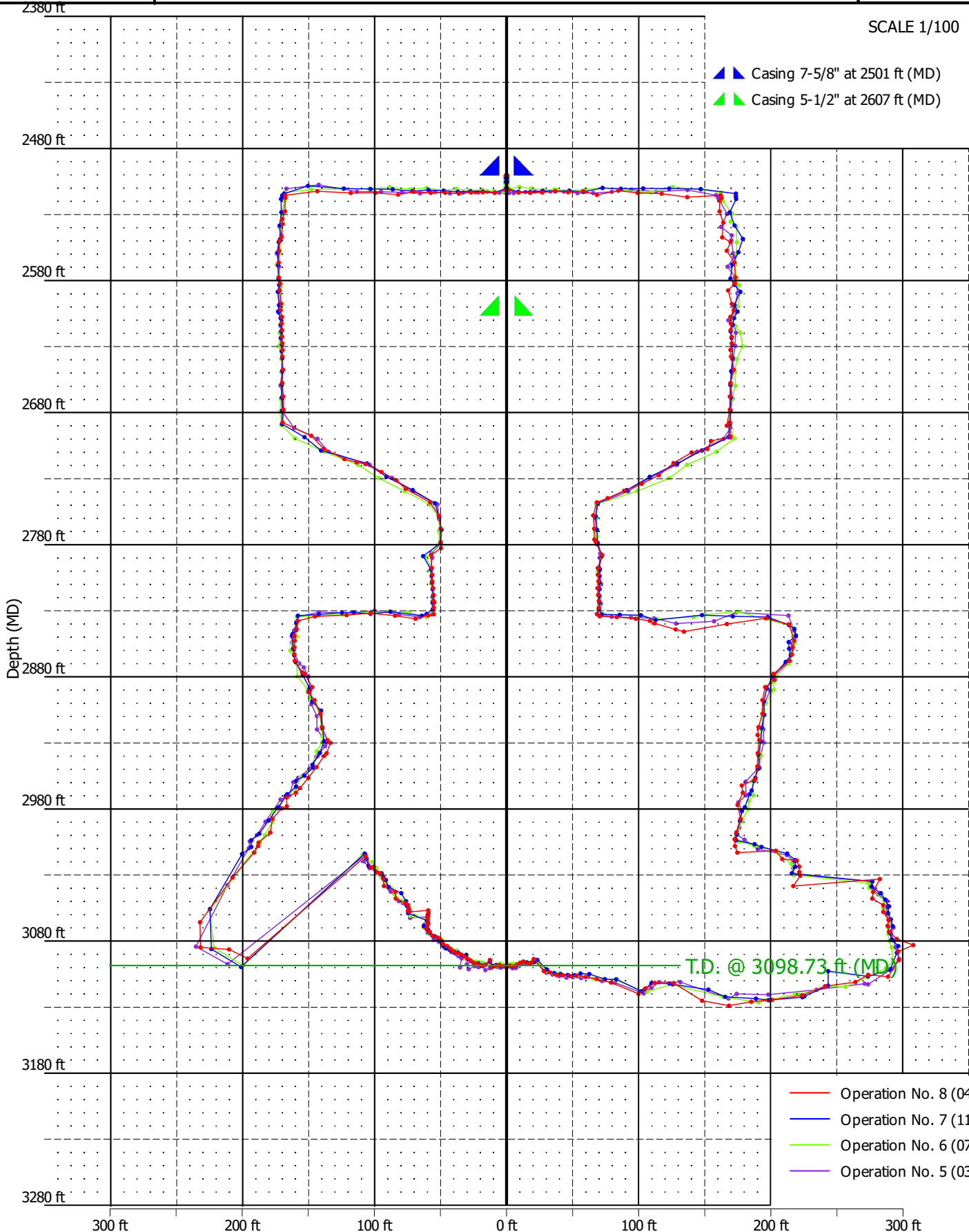
CAVERN : PPG No. 007B
OPERATION No. : 8



VERTICAL SECTION

N300 ← 9 → N120

SCALE 1/100





CUSTOMER : Westlake Chemicals
DATE : April 15, 2024

CAVERN : PPG No. 007B
OPERATION No. : 8



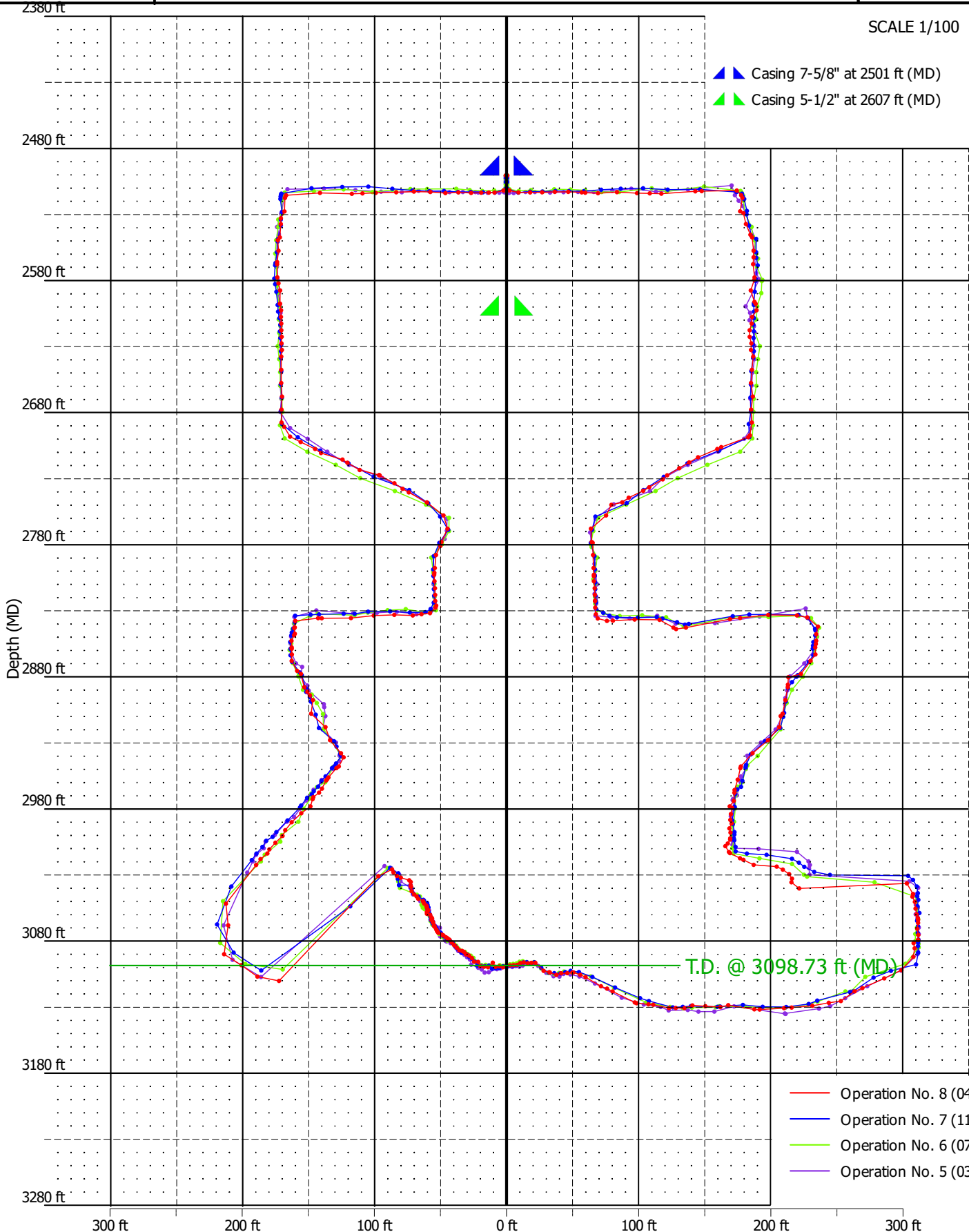
VERTICAL SECTION

N315 ←

10

→ N135

SCALE 1/100





CUSTOMER : Westlake Chemicals
DATE : April 15, 2024

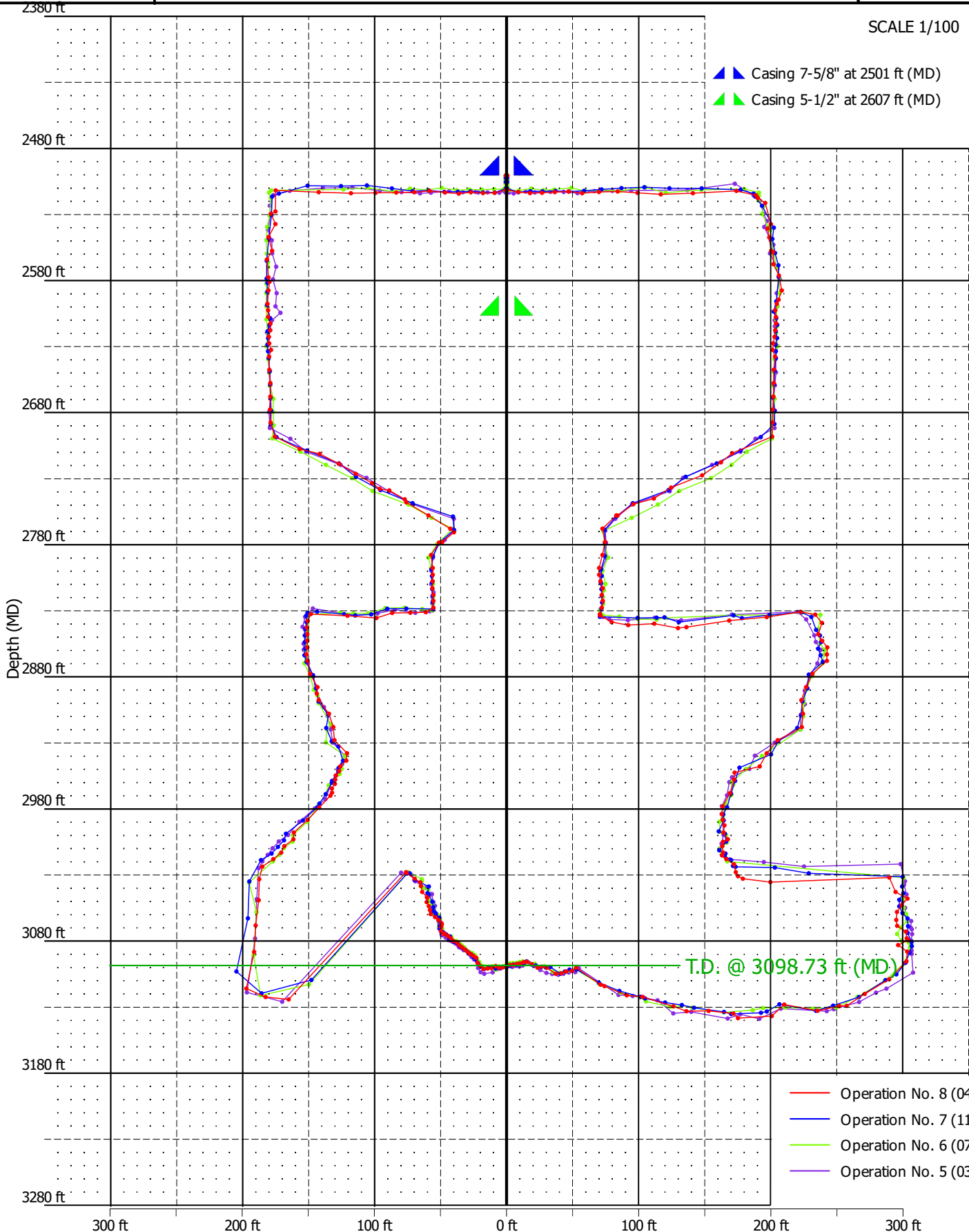
CAVERN : PPG No. 007B
OPERATION No. : 8



VERTICAL SECTION

← N330 **11** N150 →

SCALE 1/100





CUSTOMER : Westlake Chemicals
DATE : April 15, 2024

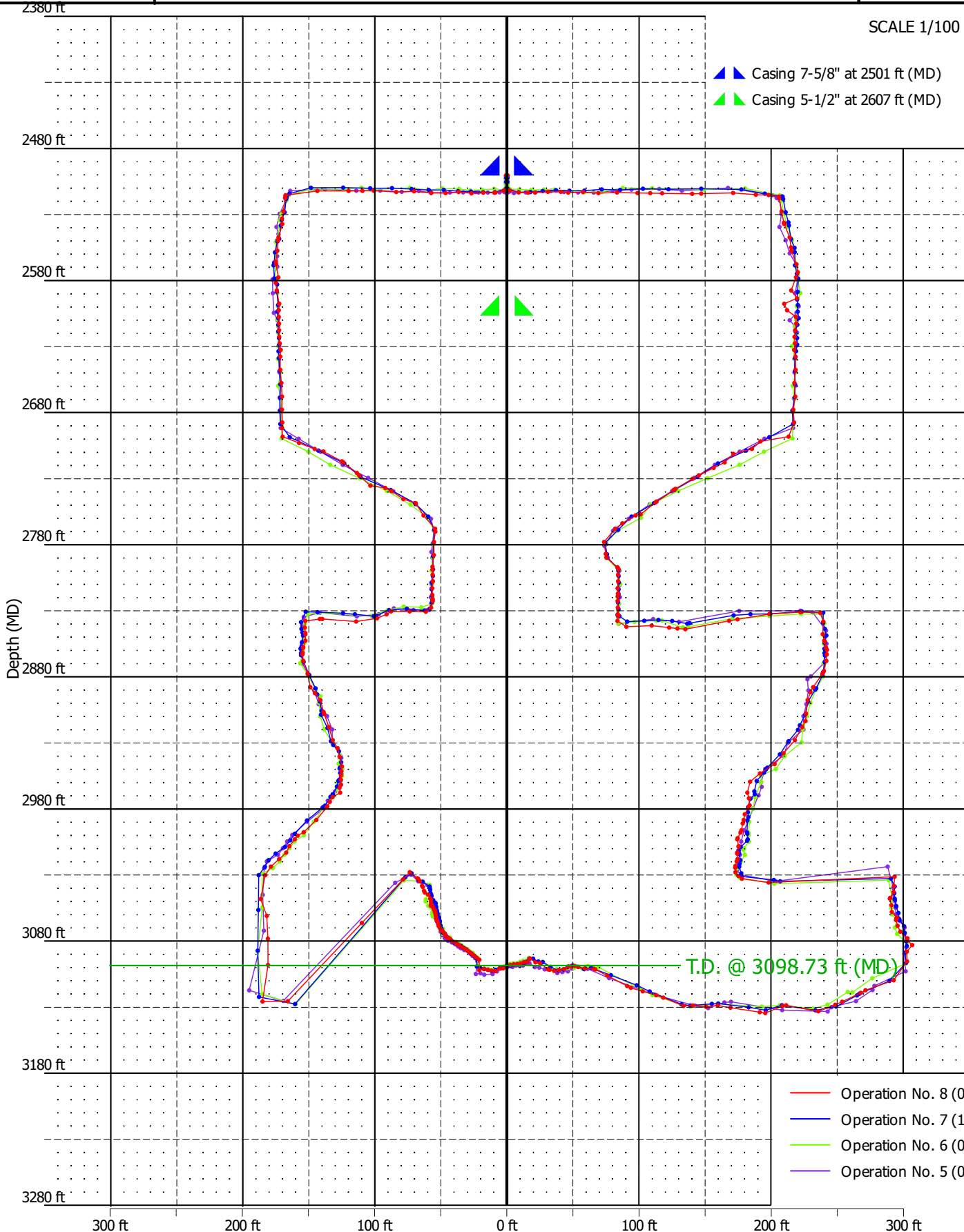
CAVERN : PPG No. 007B
OPERATION No. : 8



VERTICAL SECTION

N345 ← 12 → N165

SCALE 1/100





CUSTOMER : Westlake Chemicals
DATE : April 15, 2024

CAVERN : PPG No. 007B
OPERATION No. : 8



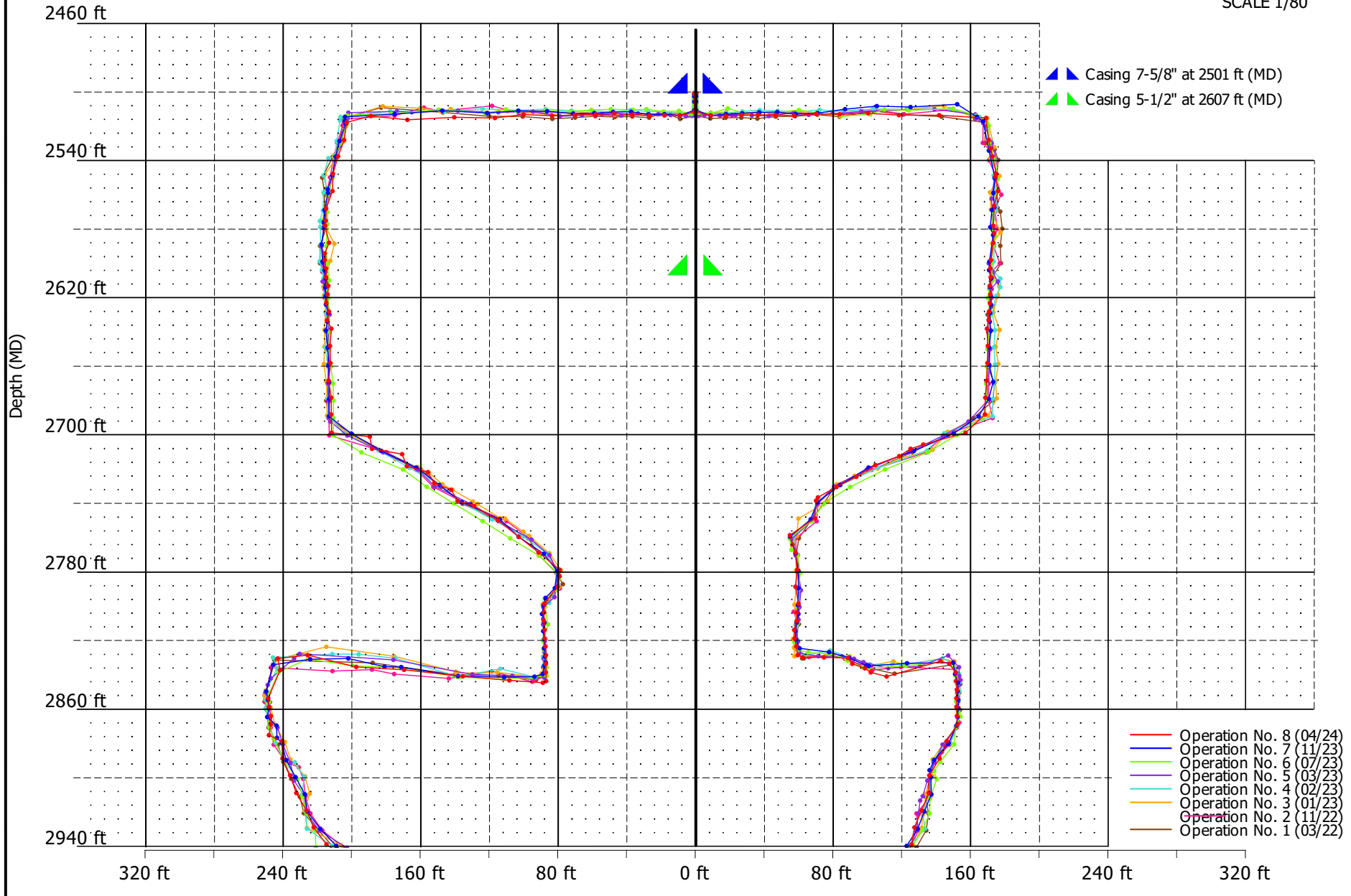
VERTICAL SECTION

← N180

1

N0 →

SCALE 1/80





CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



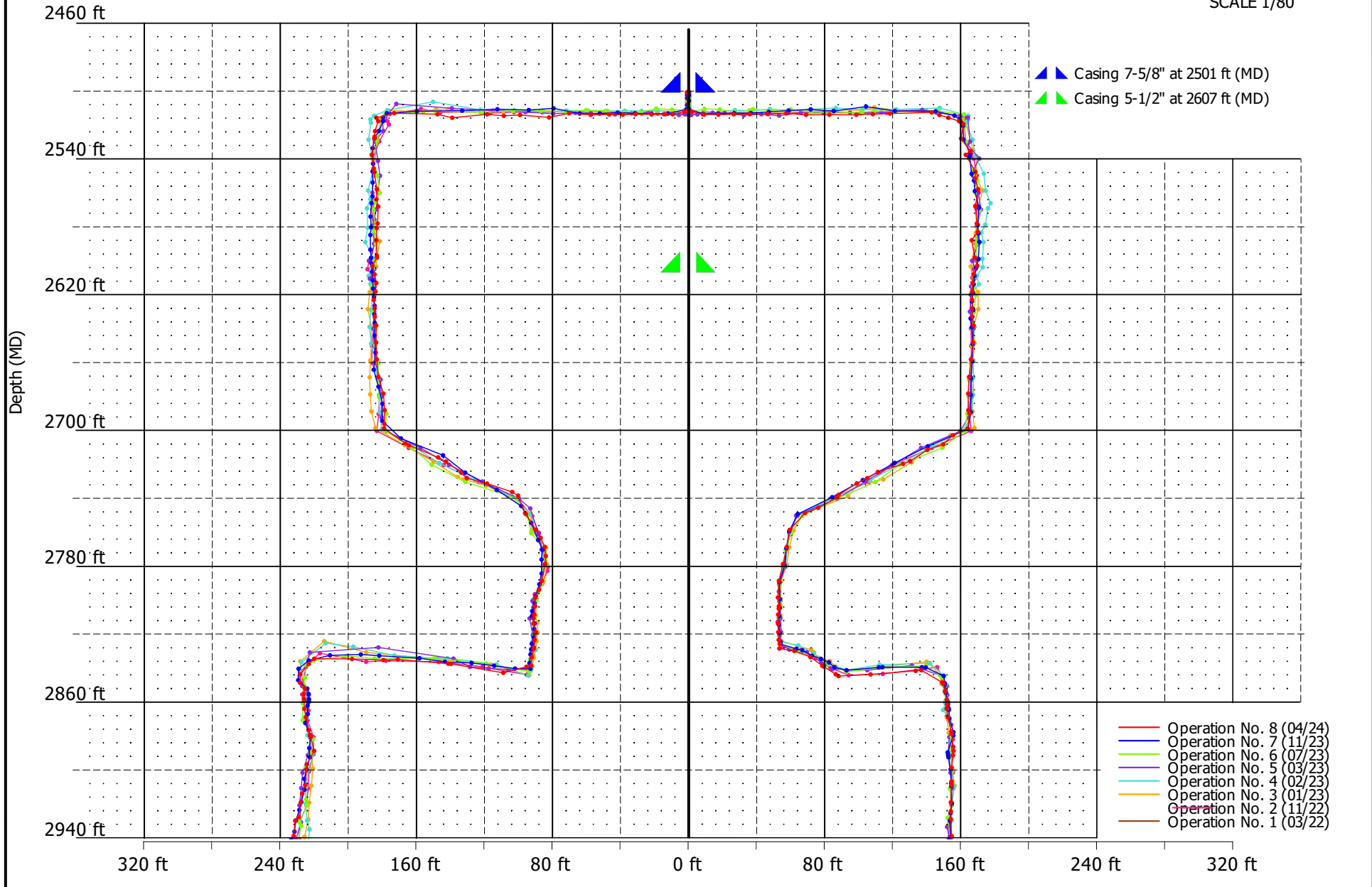
VERTICAL SECTION

← N225

2

N45 →

SCALE 1/80





CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

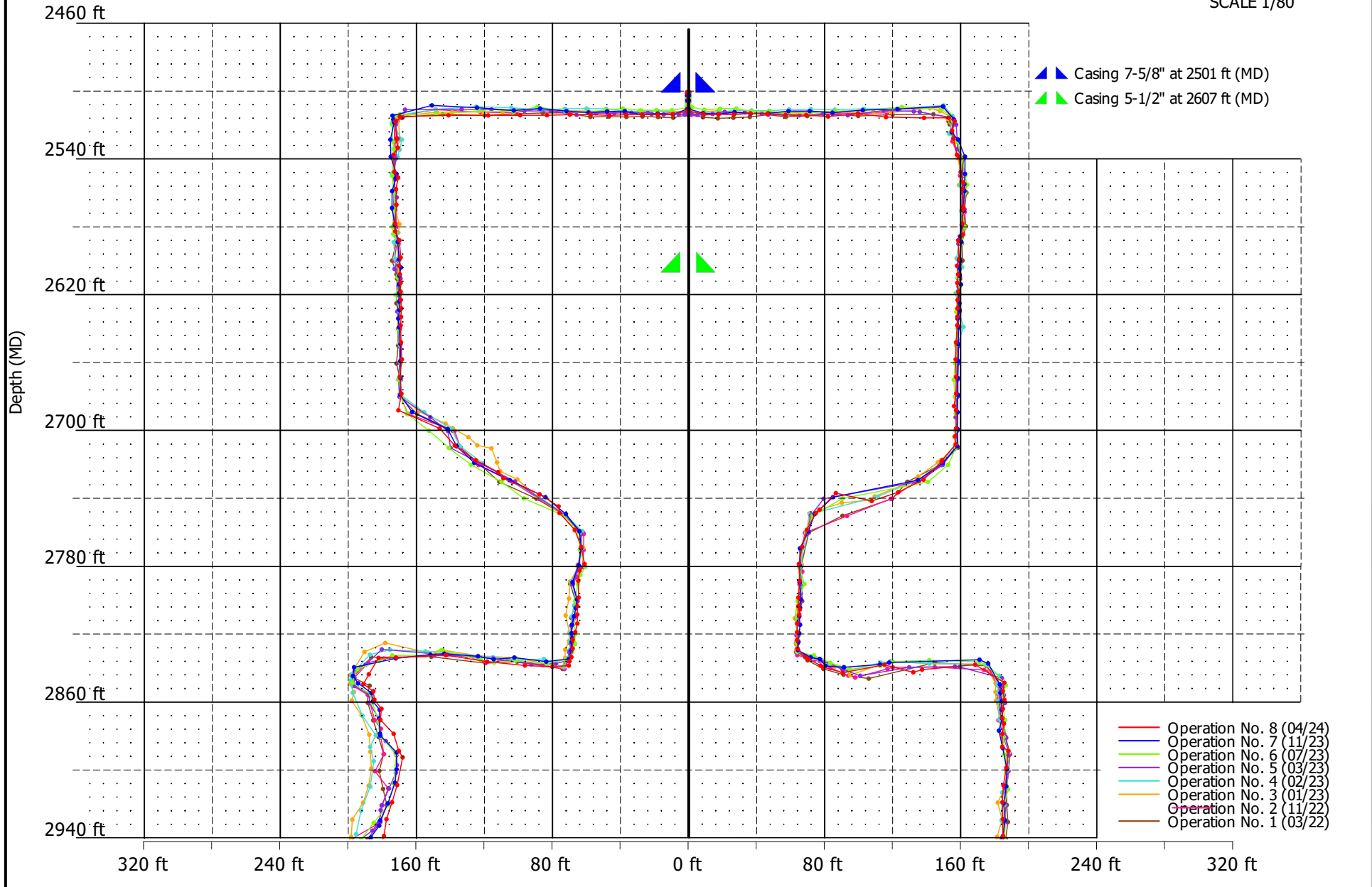
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 OPERATION No. : 8

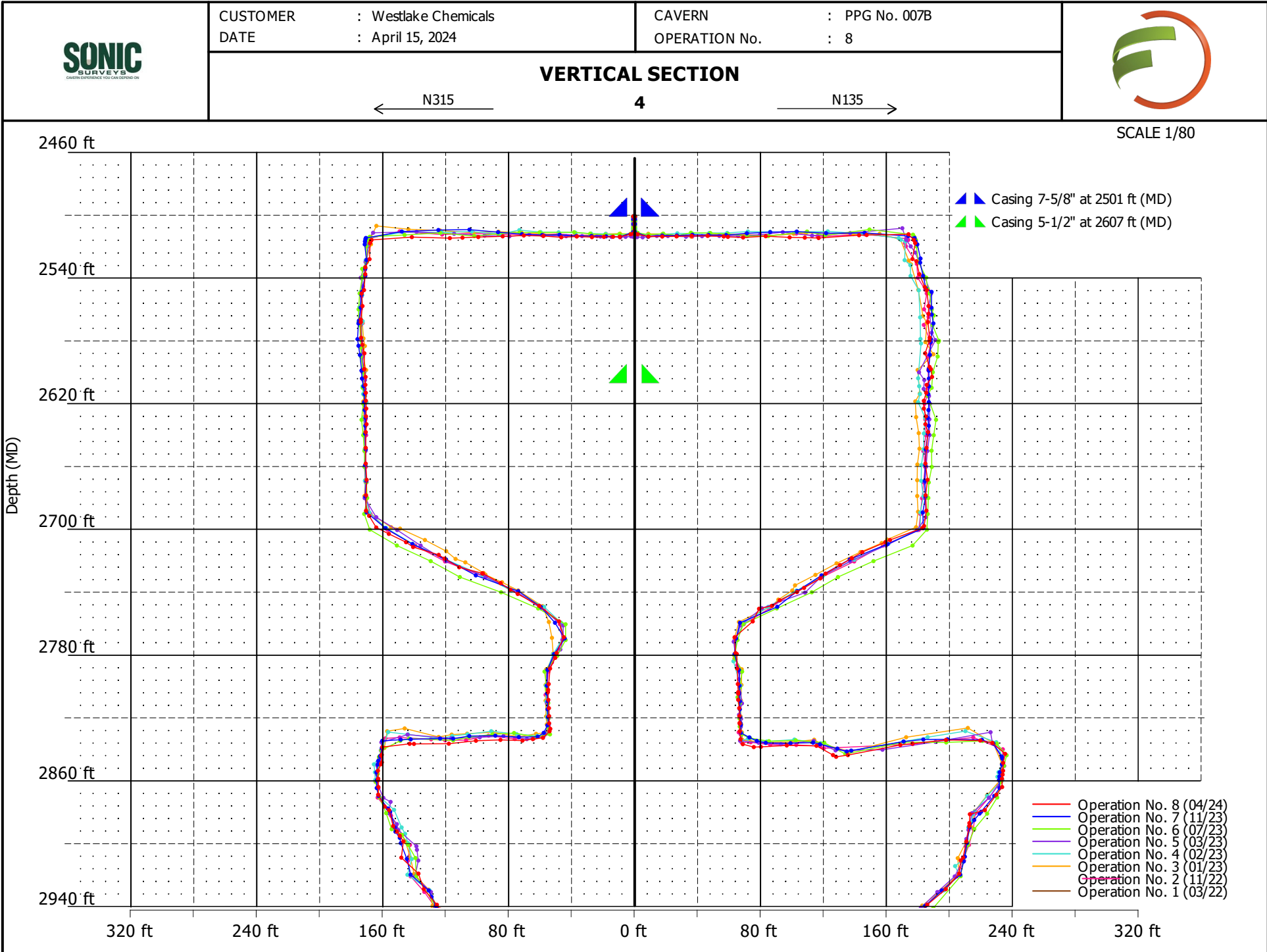


VERTICAL SECTION

← N270 **3** N90 →

SCALE 1/80







CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

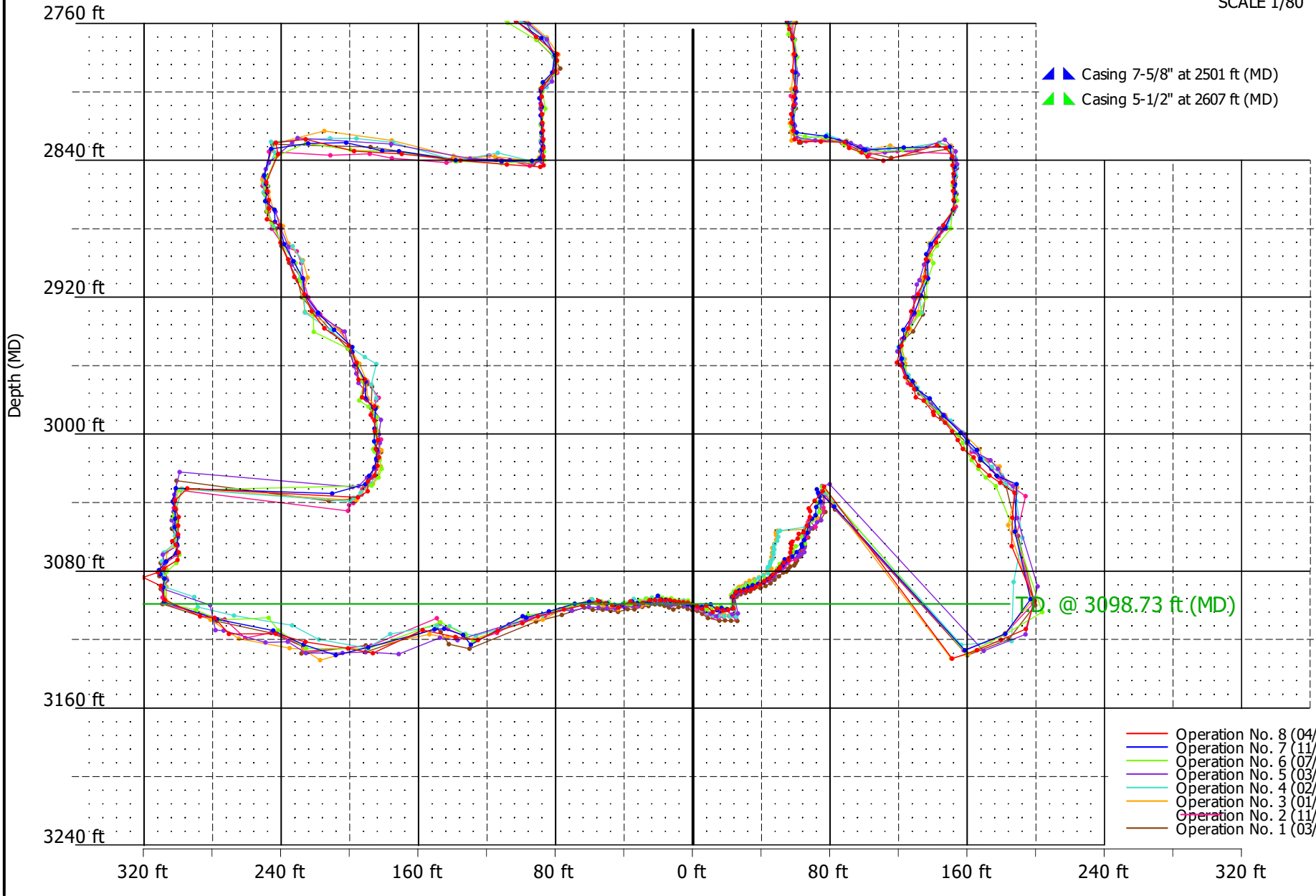
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 OPERATION No. : 8

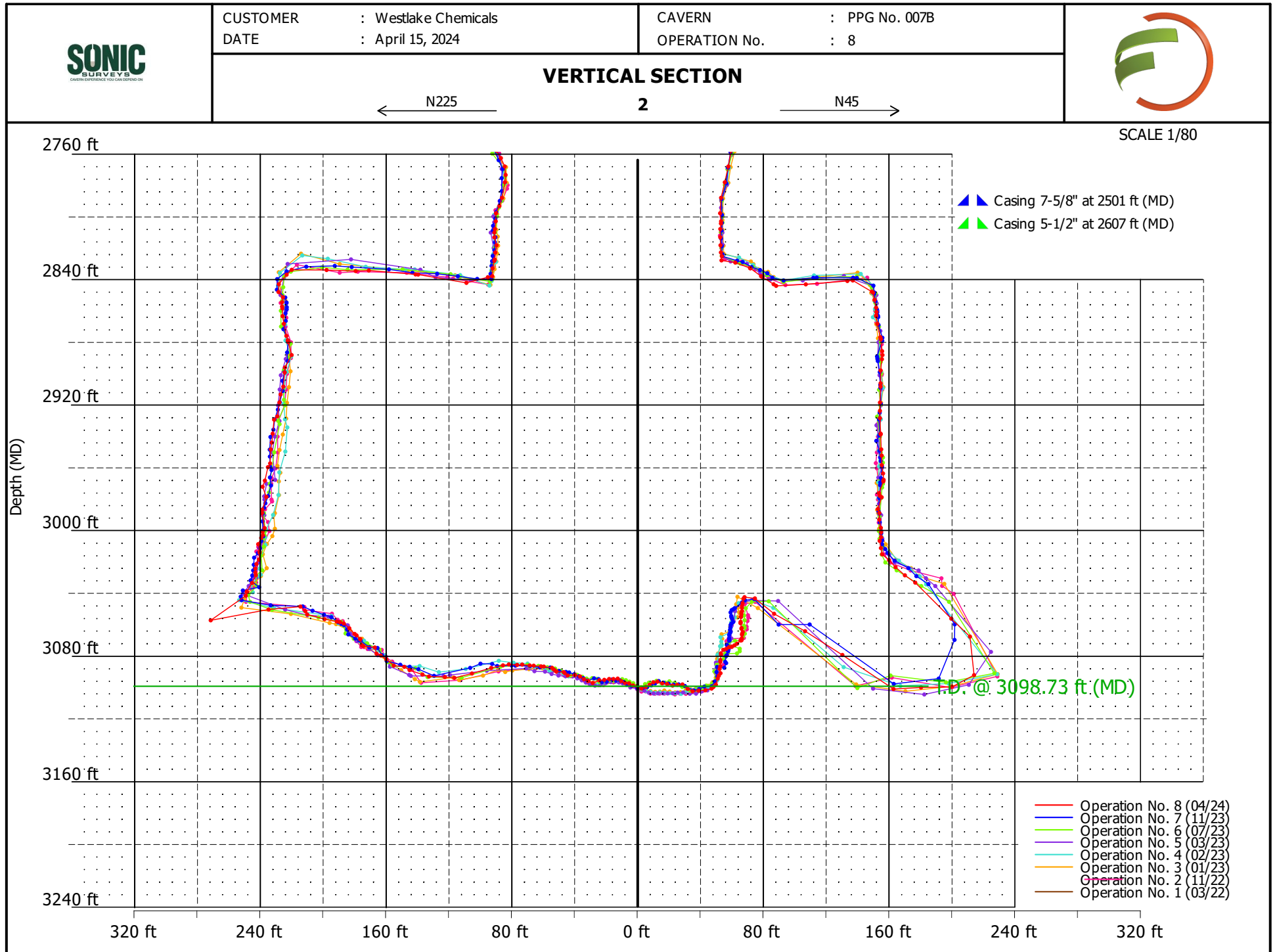


VERTICAL SECTION

← N180 **1** N0 →

SCALE 1/80







CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

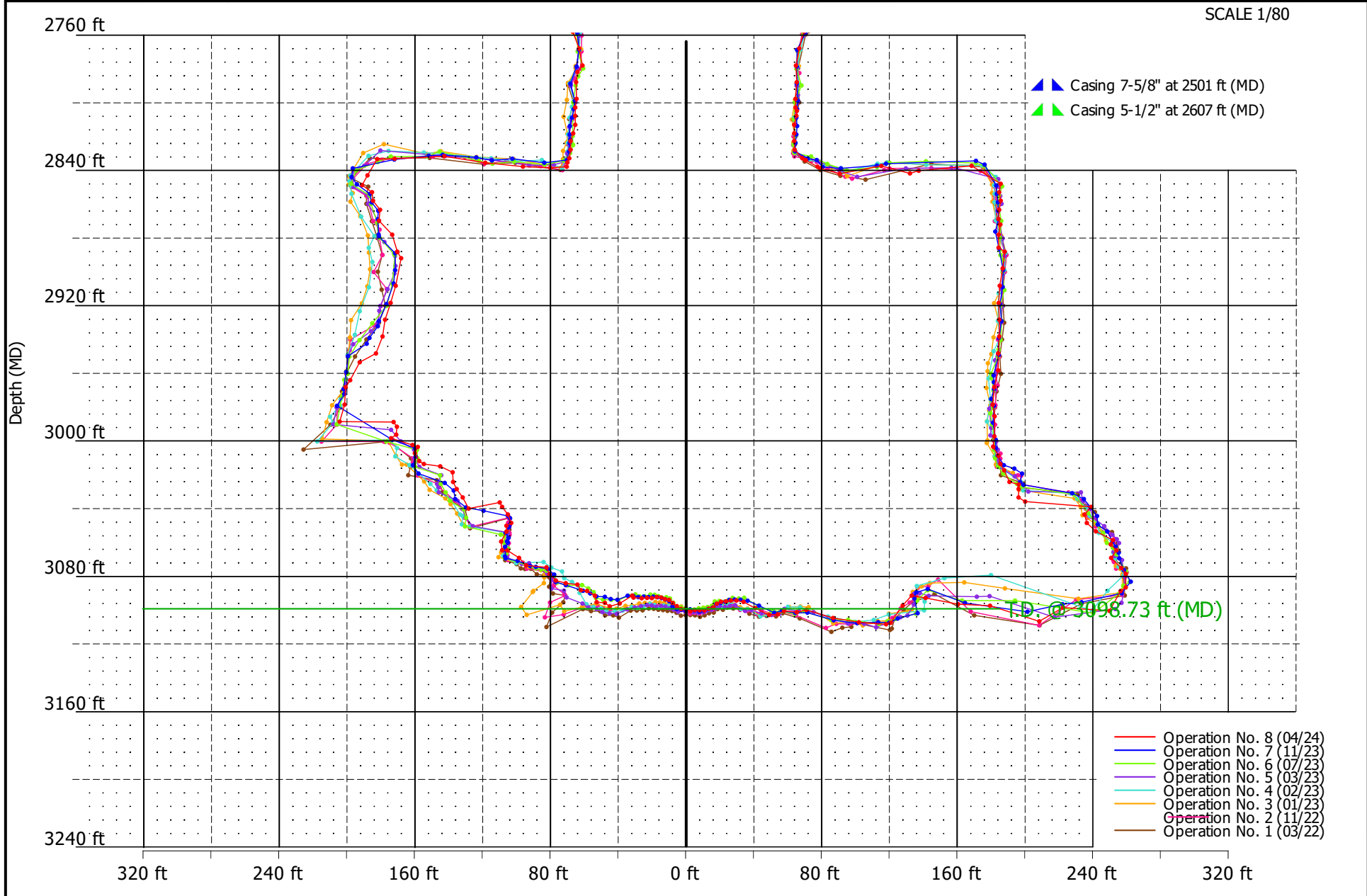
CAVERN : PPG No. 007B
 OPERATION No. : 8



VERTICAL SECTION

N270 ← 3 → N90

SCALE 1/80





CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

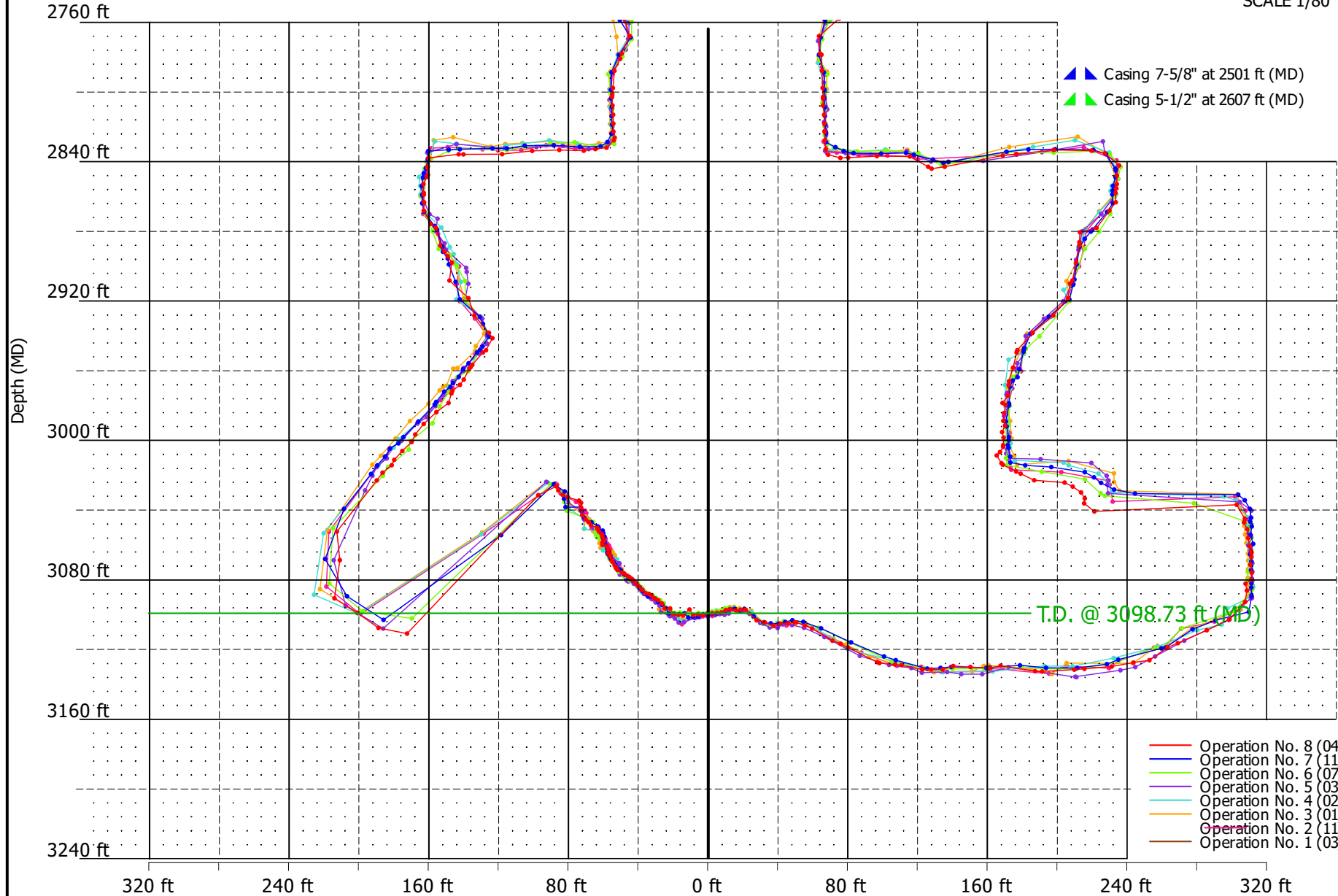
CAVERN : PPG No. 007B
 OPERATION No. : 8



VERTICAL SECTION

← N315 4 N135 →

SCALE 1/80





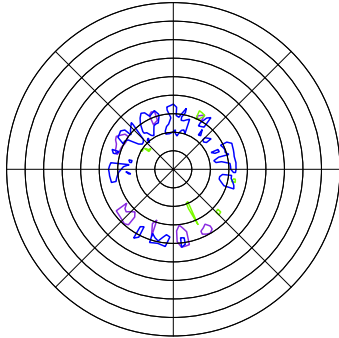
CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8

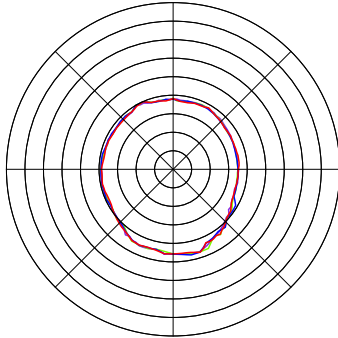


HORIZONTAL SECTIONS
between 2510 ft and 2620 ft

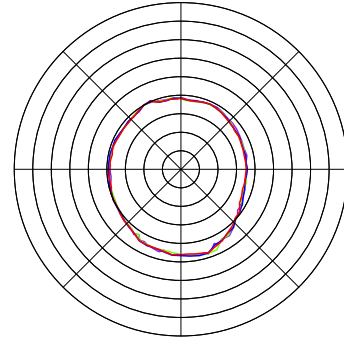
— Operation No. 8 (04/24) — Operation No. 7 (11/23) — Operation No. 6 (07/23) — Operation No. 5 (03/23) SCALE 50.0 ft per division



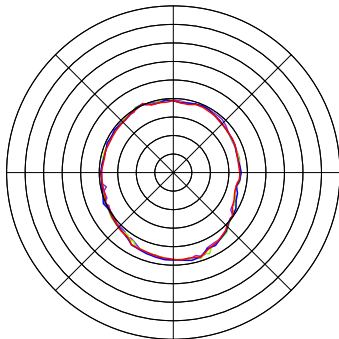
2510 ft / 0.89 ft²



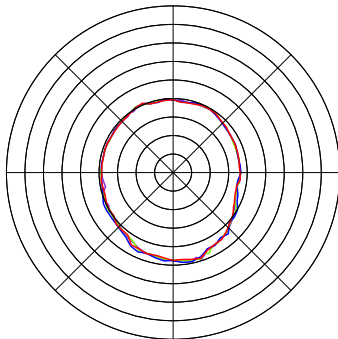
2520 ft / 95518.03 ft²



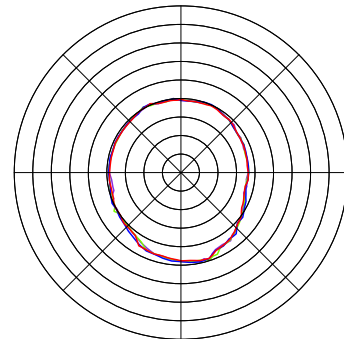
2530 ft / 97290.99 ft²



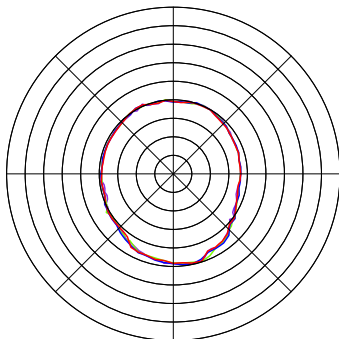
2540 ft / 98828.38 ft²



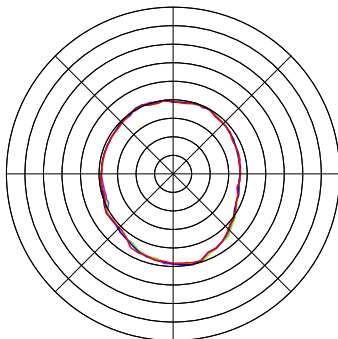
2550 ft / 100624.14 ft²



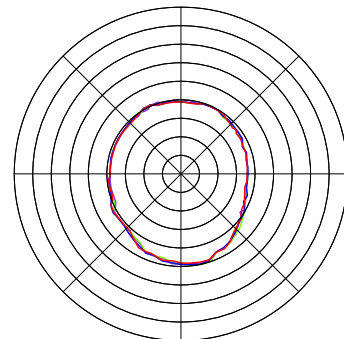
2560 ft / 101486.75 ft²



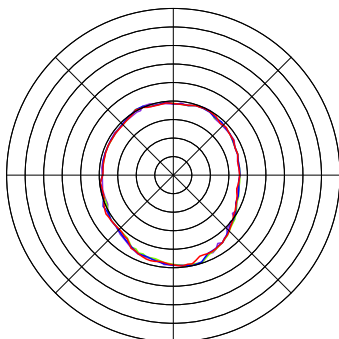
2570 ft / 102662.70 ft²



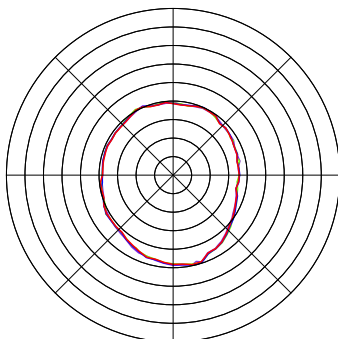
2580 ft / 103069.78 ft²



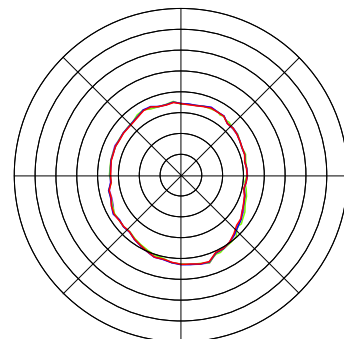
2590 ft / 102367.09 ft²



2600 ft / 102151.22 ft²



2610 ft / 101327.12 ft²



2620 ft / 100998.61 ft²

*All sections are oriented to Magnetic North.

Magnetic Declination= 0.7°



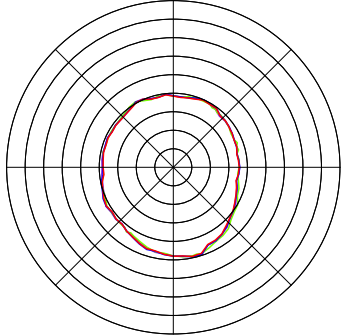
CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8

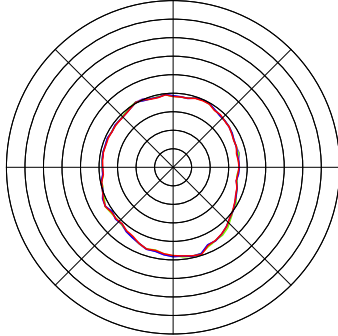


HORIZONTAL SECTIONS
between 2630 ft and 2740 ft

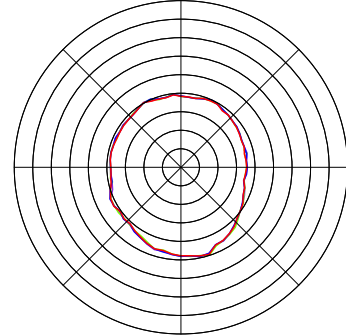
— Operation No. 8 (04/24) — Operation No. 7 (11/23) — Operation No. 6 (07/23) — Operation No. 5 (03/23) SCALE 50.0 ft per division



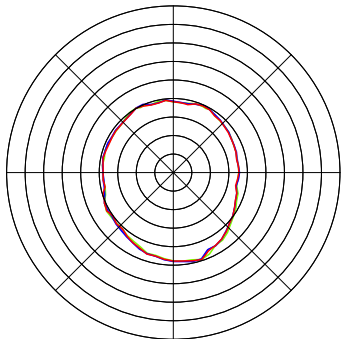
2630 ft / 100591.81 ft²



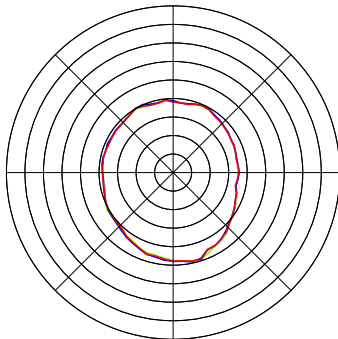
2640 ft / 100635.81 ft²



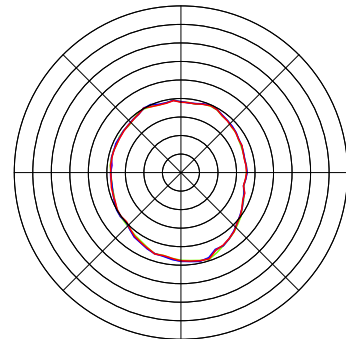
2650 ft / 100186.98 ft²



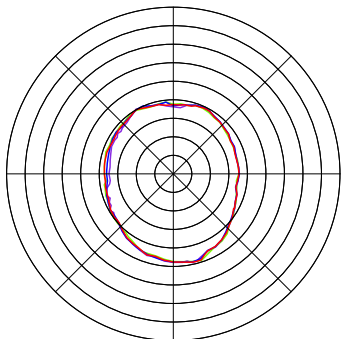
2660 ft / 99629.37 ft²



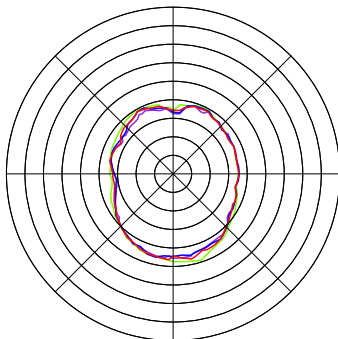
2670 ft / 99148.76 ft²



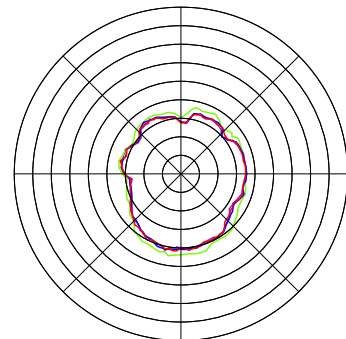
2680 ft / 98691.79 ft²



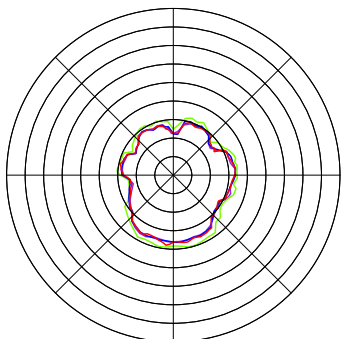
2690 ft / 97383.42 ft²



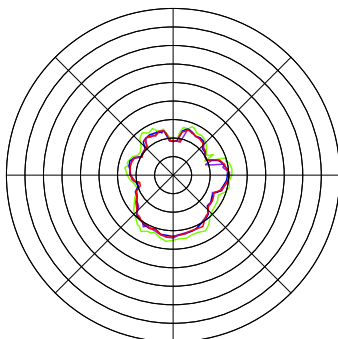
2700 ft / 90178.18 ft²



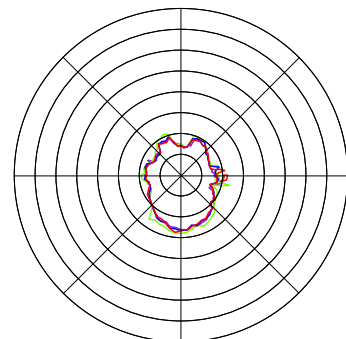
2710 ft / 72368.48 ft²



2720 ft / 56040.19 ft²



2730 ft / 41190.87 ft²



2740 ft / 27949.05 ft²

*All sections are oriented to Magnetic North.

Magnetic Declination= 0.7°



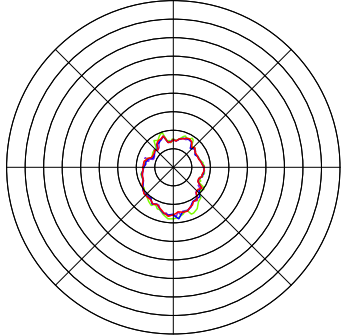
CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8

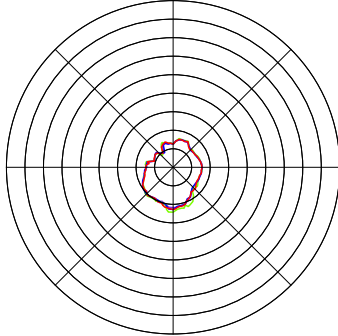


HORIZONTAL SECTIONS
between 2750 ft and 2860 ft

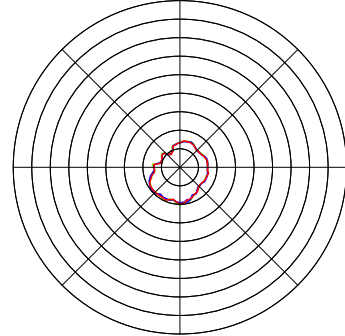
— Operation No. 8 (04/24) — Operation No. 7 (11/23) — Operation No. 6 (07/23) — Operation No. 5 (03/23) SCALE 50.0 ft per division



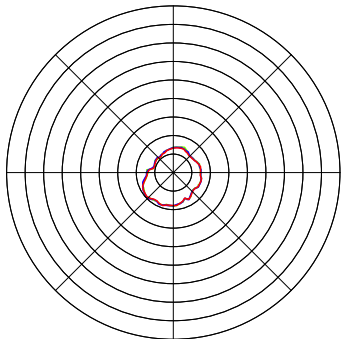
2750 ft / 20180.17 ft²



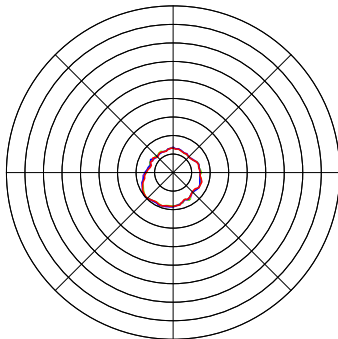
2760 ft / 16135.22 ft²



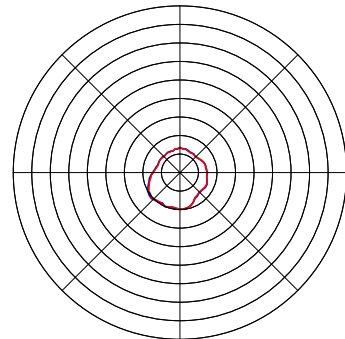
2770 ft / 14036.56 ft²



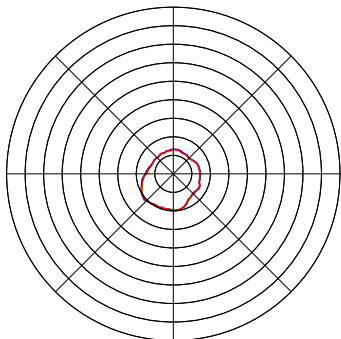
2780 ft / 13656.19 ft²



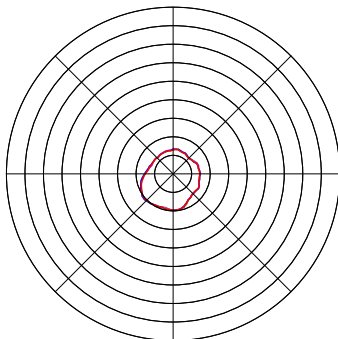
2790 ft / 14244.25 ft²



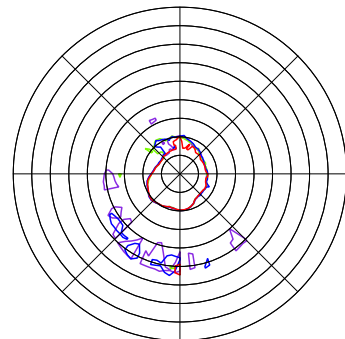
2800 ft / 14775.87 ft²



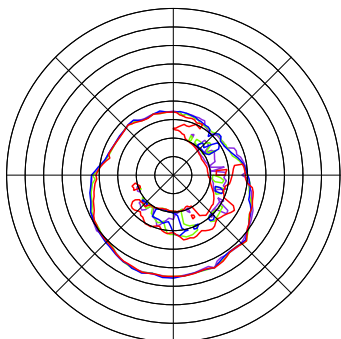
2810 ft / 14885.50 ft²



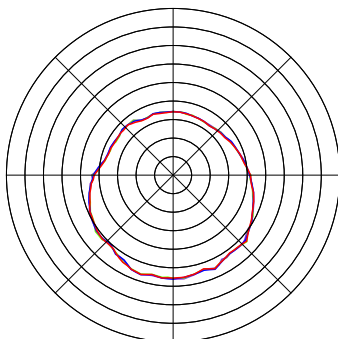
2820 ft / 14888.07 ft²



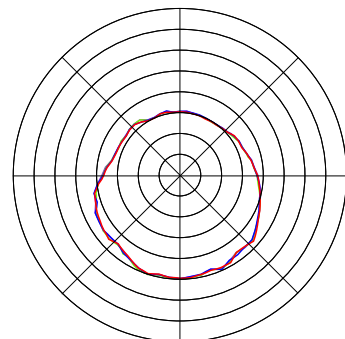
2830 ft / 16376.38 ft²



2840 ft / 92111.13 ft²



2850 ft / 119981.11 ft²



2860 ft / 120141.27 ft²

*All sections are oriented to Magnetic North.

Magnetic Declination= 0.7°



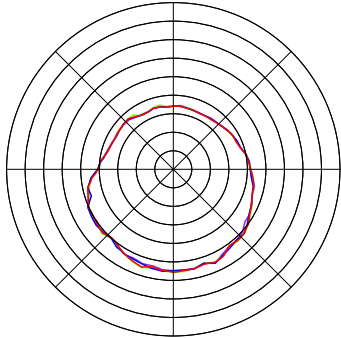
CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8

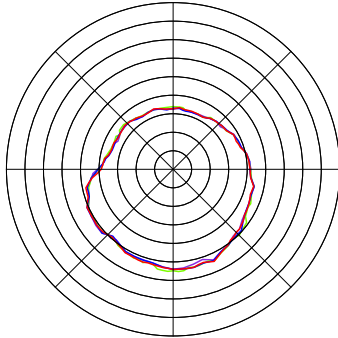


HORIZONTAL SECTIONS
between 2870 ft and 2980 ft

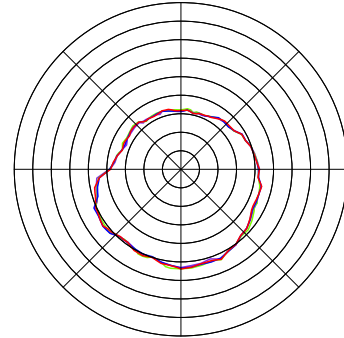
— Operation No. 8 (04/24) — Operation No. 7 (11/23) — Operation No. 6 (07/23) — Operation No. 5 (03/23) SCALE 50.0 ft per division



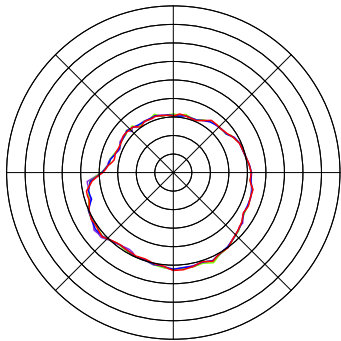
2870 ft / 119164.73 ft²



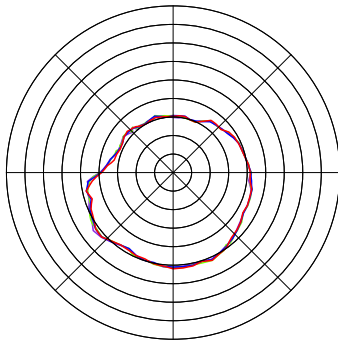
2880 ft / 114443.93 ft²



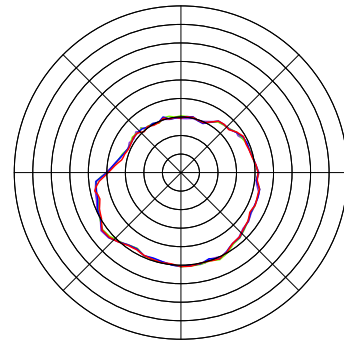
2890 ft / 111276.46 ft²



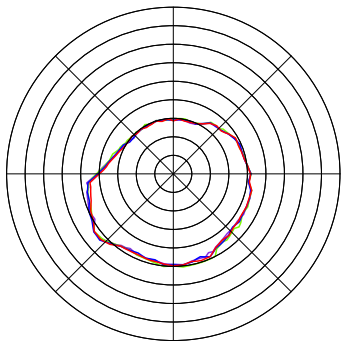
2900 ft / 108465.97 ft²



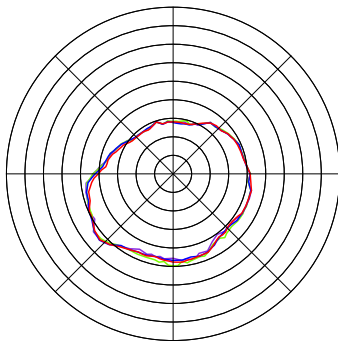
2910 ft / 106665.46 ft²



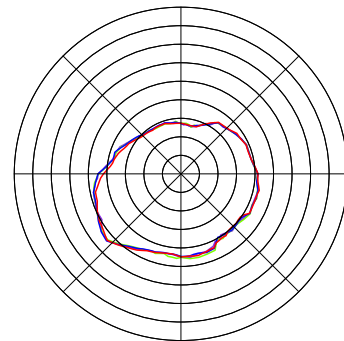
2920 ft / 104828.34 ft²



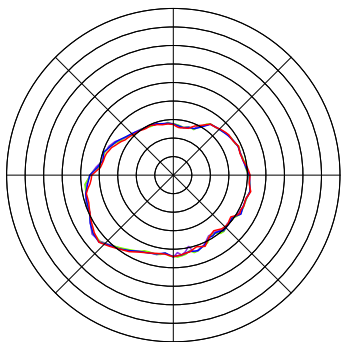
2930 ft / 101941.94 ft²



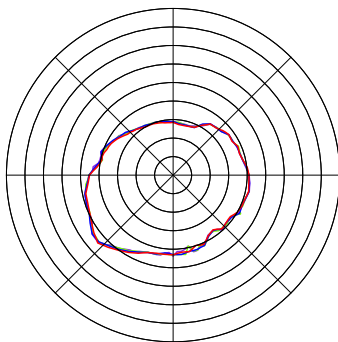
2940 ft / 98562.15 ft²



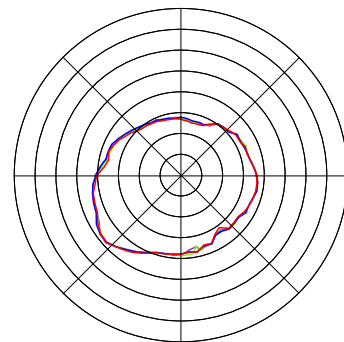
2950 ft / 96604.64 ft²



2960 ft / 96171.14 ft²



2970 ft / 97344.93 ft²



2980 ft / 98970.40 ft²

*All sections are oriented to Magnetic North.

Magnetic Declination= 0.7°



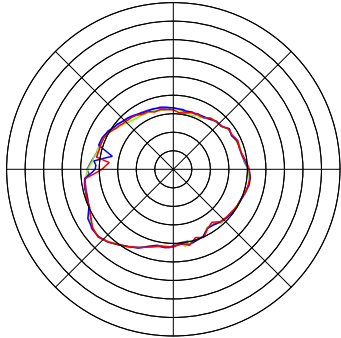
CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8

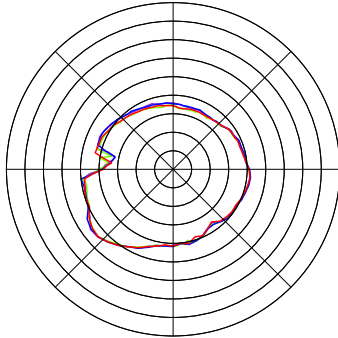


HORIZONTAL SECTIONS
between 2990 ft and 3100 ft

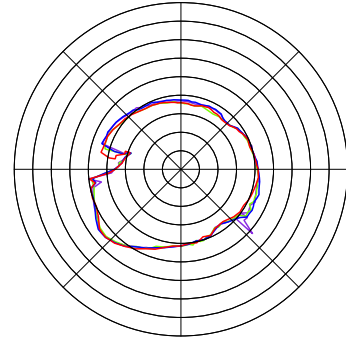
— Operation No. 8 (04/24) — Operation No. 7 (11/23) — Operation No. 6 (07/23) — Operation No. 5 (03/23) SCALE 50.0 ft per division



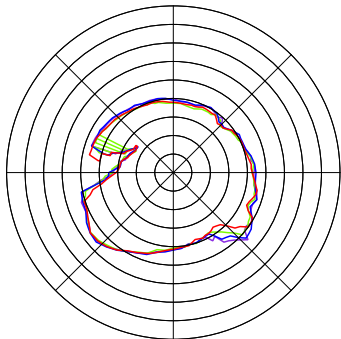
2990 ft / 100380.50 ft²



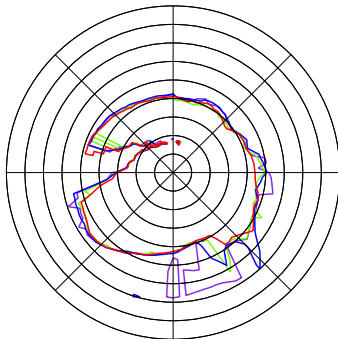
3000 ft / 102521.84 ft²



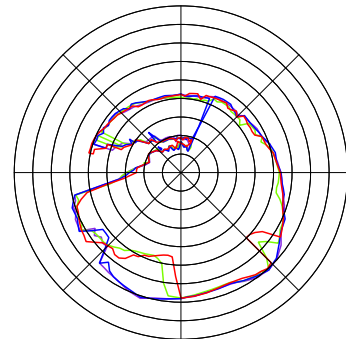
3010 ft / 105646.63 ft²



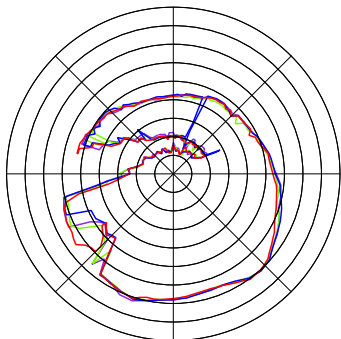
3020 ft / 111262.14 ft²



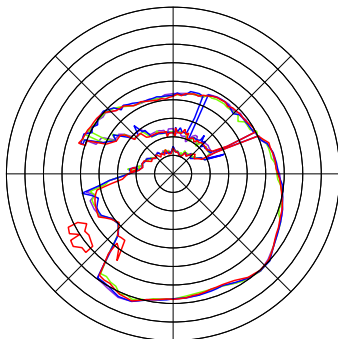
3030 ft / 117898.56 ft²



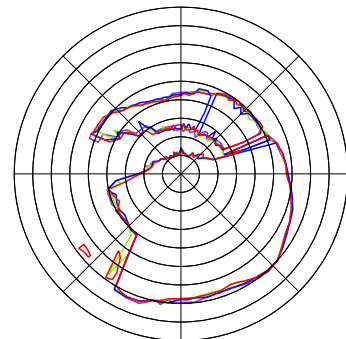
3040 ft / 157538.32 ft²



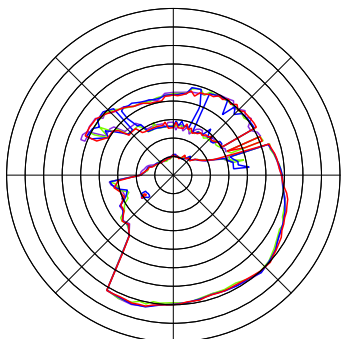
3050 ft / 174222.03 ft²



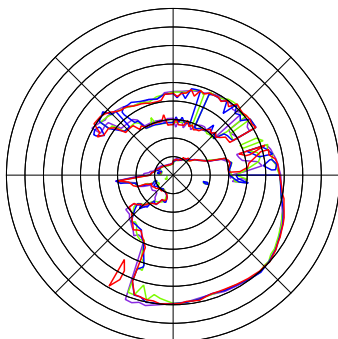
3060 ft / 165763.14 ft²



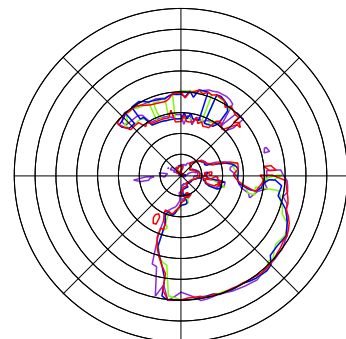
3070 ft / 157482.39 ft²



3080 ft / 151934.87 ft²



3090 ft / 127187.06 ft²



3100 ft / 90562.55 ft²

*All sections are oriented to Magnetic North.

Magnetic Declination= 0.7°



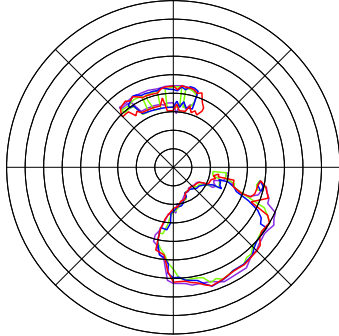
CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8

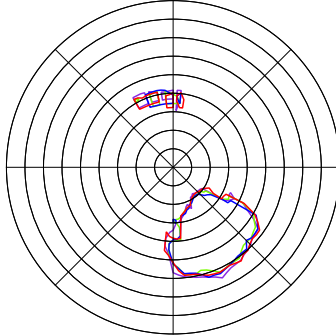


HORIZONTAL SECTIONS
between 3110 ft and 3130 ft

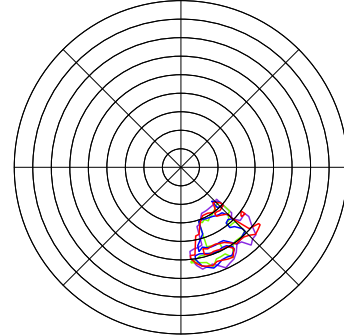
— Operation No. 8 (04/24) — Operation No. 7 (11/23) — Operation No. 6 (07/23) — Operation No. 5 (03/23) SCALE 50.0 ft per division



3110 ft / 56927.07 ft²



3120 ft / 33868.77 ft²



3130 ft / 11400.81 ft²

*All sections are oriented to Magnetic North.

Magnetic Declination= 0.7°



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2501.1		TILT	0		VOS	5927.92	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
24	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
48	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
72	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
96	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
120	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
144	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
168	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
192	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
216	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
240	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
264	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
288	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
312	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
336	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

DEPTH	2512.0		TILT	0		VOS	5928.48	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6
24	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
48	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.4
72	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.6
96	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5
120	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
144	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
168	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
192	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
216	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
240	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
264	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
288	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6
312	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
336	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5

DEPTH	2514.0		TILT	0		VOS	5928.48	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	9.8	9.8	9.8	9.8	9.8	8.8	8.4	8.4
24	8.4	9.2	19.3	25.2	32.6	9.2	8.4	8.8
48	9.8	8.8	8.4	8.9	10.7	23.6	32.6	11.7
72	8.4	8.4	8.4	11.4	21.9	21.3	20.8	17.3
96	15.7	12.7	10.7	56.8	50.9	47.5	38.4	62.5
120	10.7	44.6	38.9	46.7	62.1	59.0	56.3	18.5
144	10.7	12.1	14.0	11.5	9.8	11.7	14.5	64.0
168	46.1	64.1	64.4	80.6	20.8	15.6	12.1	11.9
192	11.6	11.5	11.5	11.5	11.7	11.7	11.9	11.7
216	11.5	35.1	41.0	34.0	10.7	12.3	14.5	19.0
240	23.2	18.0	10.7	70.9	140.5	19.2	12.6	9.7
264	8.4	8.9	10.7	10.7	10.7	10.7	10.7	8.9
288	8.4	8.4	8.4	8.4	8.4	8.4	8.4	9.2
312	20.8	14.7	10.7	10.7	10.7	8.9	8.4	8.9
336	10.7	10.2	9.8	8.8	8.4	8.4	8.4	8.8



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2516.0		TILT		0		VOS		5928.48
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	169.2	165.4	162.2	162.3	162.9	163.7	164.9	165.3	
24	166.1	167.4	171.9	157.5	144.5	149.8	154.0	153.0	
48	152.5	153.5	157.4	154.0	156.9	155.2	153.9	153.1	
72	152.7	153.0	153.7	153.0	152.7	135.9	153.2	153.7	
96	154.7	152.7	151.2	153.9	157.2	156.5	156.2	138.4	
120	161.9	166.0	170.5	171.7	173.5	177.5	182.3	185.2	
144	188.8	188.5	188.8	180.2	172.8	184.8	209.0	199.2	
168	188.7	180.5	173.1	165.5	158.2	163.8	111.9	119.7	
192	129.8	136.5	184.5	190.4	194.8	195.6	197.0	190.6	
216	106.5	184.3	186.8	183.2	180.2	136.2	174.6	171.9	
240	169.7	168.8	168.3	169.4	171.0	171.7	172.9	171.5	
264	170.6	169.3	168.4	168.3	168.6	165.6	168.4	167.7	
288	167.6	167.8	168.9	167.7	167.4	167.4	167.9	166.6	
312	165.9	166.8	168.1	168.4	169.2	171.7	174.7	176.1	
336	178.1	172.7	168.1	167.3	166.9	165.3	164.1	166.4	

DEPTH	2518.0		TILT		0		VOS		5928.48
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	169.5	165.6	162.4	162.8	163.6	164.3	165.6	165.3	
24	165.4	168.0	171.1	168.1	165.5	163.2	160.4	159.2	
48	158.4	156.3	158.2	157.8	159.0	158.8	159.0	159.1	
72	159.7	160.4	161.6	161.3	161.6	158.9	156.7	156.5	
96	156.9	156.5	156.6	156.4	156.6	157.2	158.2	160.2	
120	162.7	165.9	170.4	172.1	174.4	178.5	183.3	188.3	
144	194.0	190.6	190.0	187.4	182.7	198.5	209.2	205.9	
168	203.2	202.7	202.7	202.5	202.7	202.7	203.2	200.3	
192	198.0	196.9	196.3	197.5	199.3	197.9	197.0	192.9	
216	189.5	186.3	185.3	182.2	179.6	177.2	175.4	172.1	
240	169.4	168.8	168.6	169.8	171.4	172.1	173.4	171.9	
264	170.9	171.3	172.1	170.1	168.6	168.0	167.9	168.3	
288	169.1	168.9	169.1	168.0	167.4	167.5	168.0	167.5	
312	167.4	167.6	168.4	168.6	168.6	171.4	174.7	176.0	
336	177.8	172.5	168.3	167.5	167.2	165.7	164.5	166.7	

DEPTH	2528.2		TILT		0		VOS		5928.48
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	170.6	167.9	165.6	165.4	165.6	167.3	169.4	169.5	
24	170.1	168.5	167.4	165.6	164.4	162.8	161.7	160.4	
48	159.7	159.7	157.4	159.2	158.4	156.9	155.9	155.5	
72	155.4	154.7	154.4	154.7	155.4	155.5	155.9	155.5	
96	155.4	155.7	156.4	155.5	154.9	156.7	158.9	159.8	
120	161.2	165.6	170.9	171.1	171.9	176.9	182.6	185.2	
144	188.5	192.9	197.4	199.7	202.5	205.9	210.0	207.8	
168	206.2	204.2	202.7	203.2	204.2	204.9	206.2	202.9	
192	200.2	199.4	199.0	198.6	198.8	198.7	199.3	194.9	
216	191.3	187.7	184.8	184.4	184.6	181.9	179.8	178.3	
240	177.3	175.7	174.6	174.1	174.1	173.2	172.9	172.9	
264	173.4	172.1	171.4	171.3	171.6	169.5	168.1	169.6	
288	171.6	170.1	169.1	168.1	167.6	167.9	168.6	168.0	
312	167.9	168.0	168.6	171.0	173.6	174.0	174.9	175.3	
336	176.2	173.2	169.1	168.9	169.1	167.6	166.6	168.4	



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2537.7			TILT	0			VOS	5928.93	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	172.9	170.5	167.6	166.8	166.4	168.7	171.6	171.3		
24	171.4	169.9	168.9	168.0	167.6	165.5	163.9	163.2		
48	162.9	163.5	162.4	162.5	163.2	162.2	161.7	159.8		
72	158.4	157.6	157.2	157.1	157.4	157.5	157.9	156.3		
96	155.2	154.6	154.4	154.5	154.9	156.7	158.9	161.3		
120	163.9	169.2	175.5	175.6	176.2	181.1	186.9	189.3		
144	192.3	195.7	200.0	201.9	204.3	207.4	212.2	209.8		
168	208.0	209.2	211.0	209.1	207.7	206.9	206.7	205.4		
192	204.6	202.1	200.3	200.1	200.5	200.0	200.0	194.9		
216	190.6	189.4	188.8	185.9	183.6	183.1	183.1	178.8		
240	175.9	176.8	178.4	175.3	172.9	172.3	172.1	171.9		
264	172.1	172.4	173.1	171.1	169.6	169.0	168.6	169.4		
288	170.6	169.5	168.9	168.9	169.4	169.6	170.4	170.1		
312	170.4	170.8	171.6	172.4	173.4	173.9	174.9	177.6		
336	180.8	175.5	169.9	169.8	170.1	168.9	168.1	170.2		

DEPTH	2547.8			TILT	0			VOS	5929.00	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	175.1	171.3	168.6	169.0	169.9	171.3	173.1	173.3		
24	173.9	173.0	172.6	172.4	172.6	170.9	169.6	168.9		
48	168.6	165.6	163.4	163.9	163.4	162.9	162.9	162.6		
72	162.7	161.2	160.2	159.1	158.4	159.1	160.2	160.8		
96	161.9	158.1	154.9	155.0	155.4	157.6	160.2	161.4		
120	163.2	168.9	175.6	178.6	182.1	185.9	190.3	193.8		
144	198.0	198.0	198.8	200.6	203.0	209.0	216.0	213.9		
168	212.5	210.5	209.2	209.7	210.7	207.7	205.2	203.6		
192	202.5	203.2	204.5	202.0	200.0	199.7	200.0	191.9		
216	184.8	184.9	185.5	184.4	183.8	179.5	175.9	175.9		
240	176.4	175.9	175.9	173.8	171.6	171.6	172.1	172.4		
264	173.1	172.6	172.6	172.0	171.9	171.1	170.1	170.6		
288	171.6	171.0	170.9	170.4	170.4	170.4	170.9	170.9		
312	171.4	171.5	172.1	173.6	173.1	176.5	180.0	180.8		
336	182.1	177.1	172.9	172.6	172.9	173.5	174.6	174.6		

DEPTH	2558.0			TILT	0			VOS	5929.00	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	176.1	173.0	172.6	172.4	172.6	172.4	172.6	173.9		
24	175.6	174.1	173.1	171.5	170.4	171.1	172.4	170.5		
48	169.1	166.4	164.9	164.2	163.4	163.1	163.2	161.9		
72	161.2	160.9	161.2	159.9	159.2	159.9	161.2	161.3		
96	161.9	158.8	156.2	157.3	158.9	161.2	163.9	165.0		
120	166.6	172.3	178.9	180.6	182.8	187.0	191.8	195.3		
144	199.5	199.1	200.3	202.9	206.1	210.6	216.0	215.3		
168	215.2	213.0	211.5	210.9	211.0	209.2	208.0	205.8		
192	204.3	204.7	205.7	204.0	202.8	202.5	202.8	194.1		
216	186.6	184.3	182.6	183.0	183.8	180.2	177.1	177.6		
240	178.6	176.9	175.6	173.9	172.4	171.8	171.6	171.9		
264	172.6	171.9	171.6	171.0	170.9	171.0	171.4	170.9		
288	170.9	171.8	173.1	172.4	172.1	172.0	172.4	172.1		
312	172.4	172.5	173.1	175.0	176.6	176.7	177.4	179.0		
336	181.1	177.0	173.6	173.5	173.9	173.3	173.1	174.4		



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2568.1			TILT	0			VOS	5929.00	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	173.8	172.7	172.1	174.1	176.6	176.6	177.1	176.5		
24	176.4	176.5	177.1	174.3	172.1	170.4	169.1	168.8		
48	168.9	166.9	165.2	164.9	164.9	163.9	163.4	163.6		
72	164.2	162.3	160.9	160.6	160.7	160.9	161.7	161.6		
96	161.9	161.6	161.7	161.3	161.4	162.9	164.9	168.6		
120	172.5	176.1	180.3	180.2	180.6	186.6	193.5	196.2		
144	199.5	200.6	202.0	201.7	201.9	210.2	219.9	219.0		
168	218.7	216.1	214.2	214.2	214.7	211.4	208.7	208.8		
192	209.5	207.1	205.2	205.1	205.5	204.2	203.5	194.5		
216	186.8	184.6	182.8	182.1	181.8	181.6	181.8	180.7		
240	180.1	179.1	178.5	175.4	172.5	172.0	172.0	172.7		
264	174.0	172.5	171.5	171.1	171.1	170.7	170.9	171.3		
288	172.1	172.2	172.7	172.3	172.4	172.1	172.3	172.4		
312	173.1	173.5	174.5	176.2	178.1	179.3	180.9	180.9		
336	181.3	178.3	175.5	174.4	173.7	175.4	177.6	175.5		

DEPTH	2578.1			TILT	0			VOS	5929.56	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	173.4	172.4	171.1	171.5	172.4	174.6	177.4	177.0		
24	177.1	177.3	177.9	174.2	171.1	170.8	170.9	169.7		
48	168.9	169.0	169.9	166.3	162.9	163.1	163.7	163.6		
72	163.9	162.1	160.7	160.7	161.2	161.0	161.2	161.0		
96	161.2	159.0	157.2	160.4	164.2	164.8	165.9	169.2		
120	173.1	176.7	180.9	181.5	182.6	187.7	193.6	196.7		
144	200.5	202.9	206.4	206.1	206.4	212.6	219.7	218.7		
168	218.2	216.4	215.3	215.0	215.2	212.9	211.2	211.1		
192	211.5	208.9	207.0	206.8	207.3	205.3	204.0	196.3		
216	189.3	185.8	182.9	182.5	182.6	182.4	182.6	182.7		
240	183.4	179.5	176.4	174.8	171.6	171.9	172.6	173.3		
264	174.4	173.0	172.1	172.9	174.1	172.0	171.1	171.0		
288	171.4	171.2	171.4	171.7	172.4	171.5	171.1	171.5		
312	172.4	173.4	174.9	175.9	180.6	180.1	180.1	180.6		
336	181.6	176.8	173.4	172.8	172.6	174.3	176.4	174.6		

DEPTH	2588.0			TILT	0			VOS	5929.56	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	173.4	171.8	171.1	171.0	171.4	174.3	177.9	176.5		
24	175.6	175.6	176.1	175.0	174.4	171.6	169.4	166.6		
48	164.4	166.7	163.4	164.5	165.2	163.8	162.9	162.8		
72	163.2	162.5	162.2	160.7	159.7	159.0	158.7	159.0		
96	159.7	157.7	156.2	158.0	160.2	163.5	167.4	167.3		
120	167.7	172.2	177.4	179.6	182.4	184.8	187.8	193.9		
144	201.0	203.5	208.3	207.2	206.8	210.6	215.2	215.1		
168	215.5	214.9	215.0	213.7	213.0	211.1	209.7	210.6		
192	212.0	207.9	204.5	205.1	206.3	205.2	204.8	199.0		
216	194.1	188.4	183.6	183.2	183.4	183.0	183.1	184.3		
240	186.1	185.5	185.4	177.2	172.9	173.0	173.6	174.0		
264	174.9	172.0	169.7	170.0	170.7	170.2	170.9	170.5		
288	170.6	170.9	171.6	171.4	171.6	171.4	171.6	171.3		
312	171.4	171.3	171.6	173.9	175.6	177.6	180.1	180.2		
336	180.9	177.7	174.9	173.9	173.4	172.7	172.4	172.7		



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2598.1		TILT	0		VOS	5930.07	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	172.0	171.3	171.2	171.1	171.4	173.1	175.4	176.2
24	177.6	176.5	175.8	174.7	174.1	170.5	167.6	168.5
48	169.8	168.1	166.9	166.6	166.7	164.3	162.4	162.4
72	162.9	160.4	158.4	158.3	158.6	158.7	159.2	158.3
96	157.9	156.2	155.0	157.6	160.7	162.5	164.8	167.4
120	170.4	174.0	178.1	181.2	184.9	188.5	192.8	196.6
144	201.0	202.5	204.5	204.3	204.5	204.1	204.3	209.8
168	216.2	218.4	221.2	218.0	215.5	212.0	209.3	210.7
192	212.8	211.2	210.3	207.0	204.4	203.6	203.3	196.1
216	190.0	186.2	183.1	182.9	183.1	183.1	183.6	184.7
240	186.4	183.1	180.4	177.2	173.9	173.3	173.2	174.3
264	175.9	172.1	168.9	169.1	169.7	169.3	169.4	169.9
288	170.9	171.3	172.2	171.0	170.4	170.7	171.4	170.8
312	170.7	171.4	172.7	173.0	173.9	177.1	180.9	179.9
336	179.4	175.7	172.7	172.2	172.2	173.2	174.6	173.1

DEPTH	2603.0		TILT	0		VOS	5930.09	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	171.7	171.0	170.4	170.4	170.9	172.9	175.4	174.7
24	174.4	174.4	174.9	174.0	173.7	170.4	167.7	169.9
48	172.7	168.8	167.2	166.7	167.2	163.8	161.0	160.9
72	161.2	158.8	157.0	156.5	156.5	157.0	158.0	157.9
96	158.2	158.4	159.0	159.2	160.0	162.4	165.4	168.4
120	171.9	173.2	174.9	179.3	184.4	189.2	194.8	196.5
144	198.8	201.0	203.3	205.2	207.8	206.2	205.3	212.0
168	219.7	217.8	216.5	215.3	214.7	214.0	213.8	211.6
192	210.1	211.5	213.5	211.4	209.8	205.3	201.6	193.7
216	186.9	186.4	186.4	185.5	185.1	185.5	186.4	186.4
240	186.9	185.1	183.9	178.5	176.4	175.4	174.9	175.3
264	176.1	172.7	169.9	169.4	169.4	170.1	171.4	171.1
288	171.2	170.9	171.2	170.8	170.9	170.9	171.4	170.7
312	170.4	170.6	171.2	172.8	174.4	177.1	180.4	177.6
336	175.4	174.9	173.2	172.4	172.2	172.5	173.4	172.3

DEPTH	2608.0		TILT	0		VOS	5937.98	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	171.9	170.5	169.4	169.5	170.1	171.8	173.9	175.1
24	176.9	175.6	174.9	174.3	174.1	169.9	166.4	167.8
48	169.6	168.4	166.4	165.6	163.7	162.2	161.2	160.9
72	161.2	158.8	156.9	157.1	157.7	158.0	158.7	158.0
96	157.7	155.6	153.9	156.9	160.4	162.2	164.4	166.6
120	169.4	171.9	174.9	178.3	182.4	185.8	189.8	193.8
144	198.6	200.7	203.8	204.4	205.6	211.6	218.5	218.7
168	219.5	217.1	215.3	214.7	214.8	212.6	211.0	208.6
192	206.8	206.4	206.6	203.0	200.1	196.9	194.3	192.1
216	190.3	187.2	184.6	184.2	184.4	183.6	183.4	183.4
240	183.9	182.4	181.4	178.5	174.6	174.5	174.9	175.4
264	176.4	172.6	169.4	169.3	169.6	170.0	170.9	170.9
288	171.4	171.7	172.4	170.9	169.9	170.4	171.4	170.8
312	170.6	170.7	171.1	172.4	174.1	177.0	180.4	179.6
336	179.4	175.9	173.1	172.4	172.1	173.4	175.1	173.3



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2613.1			TILT			89			VOS			5941.99		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	100.2	99.4	98.6	99.4	100.2	100.2	100.2	100.2							
24	100.2	100.2	100.3	100.3	100.3	100.2	100.2	100.2							
48	100.3	100.2	100.2	100.2	100.2	100.2	100.3	100.3							
72	100.2	100.2	100.2	100.2	100.2	100.3	100.3	100.3							
96	100.3	100.3	100.3	100.3	100.2	100.2	100.2	100.2							
120	100.2	100.2	100.2	100.2	100.3	100.3	100.3	100.2							
144	100.2	100.3	100.3	100.3	100.3	100.2	100.3	100.3							
168	100.3	100.3	100.2	100.2	100.2	100.2	99.4	98.6							
192	100.2	100.2	100.2	100.2	100.2	100.2	100.2	100.2							
216	100.3	100.3	100.2	100.2	100.2	100.2	100.3	100.3							
240	100.3	100.3	100.2	100.2	100.2	100.2	100.3	100.3							
264	100.2	100.2	100.2	100.2	100.2	100.2	100.2	100.2							
288	100.2	100.2	100.2	100.2	100.2	100.2	100.2	100.2							
312	100.2	100.2	100.2	100.2	100.2	100.2	100.2	100.2							
336	100.2	100.2	100.2	100.2	100.2	100.2	100.2	100.2							

DEPTH	2613.1			TILT			85			VOS			5941.99		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	99.0	99.0	99.0	99.0	99.0	99.0	98.8	98.8							
24	98.8	99.0	99.0	99.0	99.0	99.0	98.8	99.0							
48	99.0	99.0	98.8	99.0	99.0	99.0	99.5	99.2							
72	98.8	98.8	98.8	99.1	99.3	99.2	99.0	99.0							
96	99.5	99.3	99.0	99.0	99.0	99.0	99.0	99.0							
120	99.0	99.0	99.0	99.2	99.3	99.2	99.0	99.0							
144	99.0	99.3	99.5	99.3	99.0	99.2	99.3	99.3							
168	99.3	99.2	99.0	99.0	99.0	99.3	99.5	99.3							
192	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0							
216	99.3	99.2	99.0	99.0	99.0	99.2	99.3	99.3							
240	99.3	99.2	99.0	99.0	99.0	99.2	99.3	99.1							
264	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0							
288	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.0							
312	99.0	99.0	99.0	99.0	99.0	99.0	98.8	99.0							
336	99.0	99.0	99.0	99.0	99.0	98.8	98.8	99.0							

DEPTH	2613.1			TILT			80			VOS			5941.99		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	99.9	99.9	99.9	99.9	99.9	100.1	100.3	100.2							
24	100.1	100.1	100.3	100.3	100.3	100.3	100.3	100.1							
48	99.9	99.9	99.9	100.0	100.1	100.3	100.5	100.4							
72	100.7	100.4	100.1	100.1	100.5	100.4	100.3	100.2							
96	100.1	100.1	100.1	100.2	100.3	100.3	100.3	100.2							
120	100.1	100.3	100.3	100.3	100.3	100.4	100.5	100.2							
144	100.1	100.0	99.9	99.9	99.9	100.0	100.1	100.2							
168	100.3	100.3	100.3	100.3	100.3	100.2	100.1	100.1							
192	100.1	100.0	99.9	100.0	100.1	100.1	100.1	100.2							
216	100.3	100.3	100.5	100.3	100.1	100.1	100.1	100.3							
240	100.7	100.2	100.1	100.3	100.7	100.3	99.9	100.0							
264	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1							
288	100.1	100.1	100.1	100.3	100.5	100.5	100.5	100.3							
312	100.3	100.1	100.1	100.1	100.1	100.0	99.9	100.0							
336	100.1	100.0	99.9	100.2	100.5	100.3	100.1	100.0							



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2613.1		TILT			75		VOS		5941.99
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	102.5	102.4	102.3	102.3	102.3	102.1	101.9	102.0		
24	102.1	102.0	101.9	102.1	102.5	102.3	102.3	102.3		
48	102.3	102.2	102.1	102.1	102.1	102.2	102.5	102.3		
72	102.1	102.0	101.9	101.9	101.9	102.0	102.1	102.4		
96	102.7	102.7	102.7	102.4	102.5	102.5	102.5	102.2		
120	102.3	102.3	102.9	102.8	102.7	102.5	102.3	102.5		
144	102.3	102.2	102.1	102.1	102.1	102.2	102.3	102.6		
168	102.5	102.4	102.3	102.4	102.1	102.5	102.9	102.9		
192	102.9	102.8	102.7	102.3	101.9	102.1	102.3	102.4		
216	102.5	102.4	102.5	102.3	102.3	102.3	102.3	102.1		
240	101.9	102.1	102.3	102.3	102.5	102.1	101.7	101.7		
264	101.7	101.9	102.1	101.9	101.7	101.8	101.9	102.2		
288	102.5	102.5	102.5	102.4	102.3	102.4	102.5	102.3		
312	102.1	102.0	101.9	101.9	101.9	102.2	102.5	102.5		
336	102.5	102.1	101.7	101.7	101.7	102.2	102.7	102.6		

DEPTH	2613.1		TILT			70		VOS		5941.99
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	105.5	105.3	105.1	105.1	105.1	104.9	104.7	104.8		
24	104.9	104.8	104.7	104.8	104.9	105.0	105.1	105.2		
48	105.3	105.2	105.1	105.1	105.1	105.0	104.9	105.3		
72	105.7	105.4	105.1	105.3	105.5	105.6	105.7	105.5		
96	105.3	105.2	105.1	105.3	105.3	105.2	105.1	105.6		
120	106.3	105.6	105.3	105.2	105.1	105.7	106.3	105.6		
144	105.1	105.3	105.5	105.2	104.9	105.6	106.3	105.7		
168	106.5	106.5	106.5	105.5	105.7	105.3	104.9	105.3		
192	105.7	105.4	105.1	105.3	105.5	105.1	104.7	104.7		
216	104.7	105.0	105.3	105.0	104.7	104.9	105.1	105.5		
240	105.9	105.7	105.5	105.4	105.5	105.3	105.7	105.3		
264	104.9	104.9	104.9	104.7	104.5	104.5	104.5	104.7		
288	104.9	105.1	105.3	104.8	104.3	104.7	105.1	105.6		
312	106.1	105.3	104.5	105.1	105.7	105.0	104.3	104.6		
336	104.9	105.4	105.9	105.6	105.3	105.1	104.9	105.2		

DEPTH	2613.1		TILT			65		VOS		5941.99
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	109.4	109.4	109.6	109.0	108.5	109.1	109.8	109.5		
24	109.4	109.3	109.4	109.0	108.7	109.0	109.4	109.3		
48	109.4	108.9	108.5	108.4	108.3	109.0	109.8	109.5		
72	109.4	109.1	108.9	109.2	109.6	109.4	109.4	109.2		
96	109.2	109.3	109.6	109.2	109.4	109.0	108.9	109.1		
120	109.4	108.8	108.3	109.0	109.4	109.6	110.0	109.5		
144	110.2	110.0	110.0	109.6	109.4	109.2	109.2	109.0		
168	108.9	109.1	109.2	109.7	110.6	110.3	110.2	109.2		
192	108.3	108.7	109.2	109.5	110.0	109.0	108.1	108.3		
216	108.5	108.6	108.7	108.9	109.2	108.7	108.3	108.2		
240	108.1	108.8	109.6	109.4	109.6	109.7	110.2	109.9		
264	109.8	109.0	108.3	108.6	108.9	108.8	108.7	109.0		
288	109.4	108.9	108.5	108.7	108.9	109.3	109.8	109.4		
312	109.2	108.6	108.1	109.0	110.0	109.5	109.2	109.2		
336	109.4	108.8	108.3	108.6	108.9	109.4	110.0	109.6		



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2613.1		TILT	60		VOS	5941.99	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	114.0	114.0	114.0	114.4	114.8	114.7	114.6	115.0
24	115.4	114.6	113.8	113.8	113.8	114.4	115.0	114.8
48	114.6	114.9	115.2	114.5	113.8	113.6	113.4	113.6
72	113.8	114.4	115.0	114.4	113.8	113.8	113.8	114.2
96	114.6	114.6	114.6	114.1	113.6	113.8	114.0	114.7
120	115.4	114.7	114.0	114.0	114.6	114.3	114.0	114.3
144	114.6	114.1	113.6	113.4	113.2	113.9	114.6	114.6
168	114.6	114.3	114.4	114.7	114.8	114.1	113.4	113.3
192	113.2	113.3	113.4	113.8	114.2	114.0	113.8	114.2
216	114.6	114.7	114.8	113.8	112.8	113.6	114.4	114.1
240	113.8	114.1	114.4	114.7	114.4	114.8	114.2	114.5
264	114.8	114.4	114.0	114.0	114.0	114.7	115.4	115.5
288	115.6	115.0	114.4	114.2	114.0	114.5	115.0	114.6
312	114.2	114.7	115.2	115.4	115.6	115.6	115.6	115.3
336	115.0	114.2	113.4	113.8	114.2	113.9	113.6	113.8

DEPTH	2613.1		TILT	55		VOS	5941.99	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	121.9	122.0	122.3	121.9	121.7	121.8	122.1	121.6
24	121.3	120.3	119.5	120.4	121.5	121.0	120.7	120.3
48	120.1	120.8	121.7	120.8	120.1	120.4	120.9	120.1
72	119.5	120.3	121.3	121.0	120.9	120.5	120.3	120.2
96	120.3	120.8	121.5	121.0	120.7	120.8	121.1	119.8
120	118.6	119.4	120.3	120.0	119.9	120.1	120.5	120.3
144	120.3	120.7	121.3	121.1	121.1	120.7	120.5	120.2
168	120.1	120.2	120.5	120.7	121.1	121.6	122.3	121.7
192	121.3	120.7	120.3	120.2	120.3	120.1	120.1	120.3
216	120.7	121.4	122.3	121.4	120.7	120.6	120.7	120.9
240	121.3	120.4	119.7	120.8	122.3	121.2	121.3	120.8
264	120.5	120.4	120.5	121.0	121.7	120.6	119.7	120.3
288	121.1	120.8	120.7	121.0	121.5	120.8	120.3	120.8
312	121.5	121.6	121.9	121.8	121.9	121.4	121.1	120.6
336	120.3	120.7	121.3	121.8	122.5	122.2	122.1	121.9

DEPTH	2613.1		TILT	50		VOS	5941.99	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	130.0	130.0	130.3	130.3	130.5	130.2	130.0	129.8
24	129.7	129.9	130.3	130.0	130.0	129.4	128.9	128.7
48	128.7	128.7	128.9	128.7	128.7	128.4	128.2	128.4
72	128.7	128.5	128.4	129.0	129.7	128.5	127.4	128.2
96	129.2	128.9	128.7	127.7	126.9	127.2	127.6	129.2
120	131.0	130.0	129.2	128.7	128.4	129.5	130.8	129.8
144	128.9	129.5	130.3	128.9	127.6	128.1	128.7	129.1
168	129.7	129.4	129.2	129.0	128.9	129.9	131.0	130.0
192	129.2	128.9	128.7	128.6	128.7	128.6	128.7	129.0
216	129.5	127.9	126.6	126.7	126.9	127.9	129.2	129.0
240	128.9	129.0	129.2	129.3	129.2	129.5	128.2	128.1
264	128.2	128.2	128.4	128.7	129.2	129.1	129.2	130.3
288	131.6	129.4	127.4	127.2	127.1	127.6	128.2	128.9
312	129.7	129.4	129.2	128.6	128.2	128.6	129.2	129.5
336	130.0	129.9	130.0	129.7	129.5	129.5	129.7	129.8



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2613.1		TILT		45		VOS		5941.99	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	141.8	141.3	141.0	140.9	141.0	140.9	141.0	140.5		
24	140.2	140.0	139.9	140.0	140.2	140.4	140.7	139.4		
48	138.4	139.3	140.5	140.1	139.9	139.6	139.4	138.9		
72	138.6	140.2	142.0	139.7	137.6	139.0	140.7	140.2		
96	139.9	138.5	137.3	138.1	139.1	138.7	138.4	138.9		
120	139.7	139.4	139.4	138.3	137.3	139.3	141.5	139.8		
144	138.4	138.9	139.7	140.2	141.0	139.4	138.1	139.4		
168	141.0	139.8	138.9	139.7	140.7	139.8	139.1	139.2		
192	139.4	138.8	138.4	138.4	138.6	138.1	137.8	138.4		
216	139.1	138.8	138.6	139.3	140.2	139.4	138.9	139.3		
240	139.9	140.0	140.2	141.3	142.5	140.5	138.6	139.4		
264	140.5	139.7	139.1	138.9	138.9	140.0	141.2	142.2		
288	143.3	142.0	141.0	140.2	139.7	140.6	141.8	140.6		
312	139.7	139.6	139.7	140.1	140.7	140.1	139.7	140.2		
336	141.0	142.2	143.6	141.9	140.5	140.9	141.5	141.5		

DEPTH	2613.1		TILT		40		VOS		5941.99	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	154.3	153.4	152.7	154.3	156.1	155.4	154.8	155.2		
24	155.9	154.7	153.8	153.3	153.0	153.9	155.1	154.6		
48	154.3	154.3	154.6	152.9	151.4	151.7	152.2	152.5		
72	153.0	153.5	154.3	153.9	153.8	152.5	151.4	152.5		
96	153.8	153.0	152.5	151.7	151.2	152.9	154.8	153.7		
120	152.7	153.0	153.5	153.5	153.8	152.6	151.7	152.7		
144	154.0	152.9	152.0	151.3	150.9	151.4	152.2	153.0		
168	154.0	153.8	153.8	152.6	151.7	151.1	149.9	151.5		
192	153.3	152.2	151.4	151.6	152.0	153.5	155.4	152.9		
216	154.0	152.7	155.9	153.9	152.2	152.7	153.5	152.6		
240	152.0	154.8	158.0	156.4	157.7	154.7	153.8	153.7		
264	153.8	153.3	153.0	153.3	153.8	155.7	158.0	155.5		
288	153.3	155.6	158.2	155.7	153.5	154.2	155.1	153.0		
312	151.2	152.5	154.0	152.8	152.0	152.5	153.3	153.9		
336	154.8	157.4	159.0	155.8	153.0	152.4	152.0	153.0		

DEPTH	2613.1		TILT		35		VOS		5941.99	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	172.9	172.3	172.1	170.7	169.7	171.8	174.2	172.8		
24	171.8	172.7	173.9	171.6	169.7	172.0	174.7	174.4		
48	174.4	173.4	172.6	172.2	172.1	171.4	171.0	171.7		
72	172.6	170.9	169.5	168.9	168.7	168.7	169.0	172.1		
96	175.7	174.8	174.2	173.2	172.6	171.9	171.6	168.9		
120	166.6	170.3	174.4	175.1	176.0	174.1	172.6	173.0		
144	173.8	172.7	171.8	172.0	172.6	170.9	169.5	170.9		
168	172.6	171.8	171.3	170.9	170.8	169.8	170.3	168.6		
192	167.4	168.7	169.5	170.3	171.6	171.7	172.1	173.8		
216	176.3	174.7	168.7	168.9	169.5	168.7	168.2	169.4		
240	171.0	171.5	172.4	172.2	172.4	172.6	173.1	172.7		
264	172.6	171.9	171.6	171.8	172.4	174.6	177.3	176.9		
288	176.8	175.7	175.0	174.5	174.4	175.2	176.3	174.2		
312	172.6	172.0	171.8	171.1	169.7	171.2	173.1	175.7		
336	178.6	176.1	172.9	174.6	176.8	176.0	175.5	174.0		



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2613.1			TILT			30			VOS			5941.99		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	195.1	191.0	188.6	188.1	188.0	189.4	190.8	190.7							
24	190.9	193.4	194.6	192.5	190.9	189.2	188.3	186.5							
48	185.2	182.8	183.1	182.9	184.1	182.3	181.0	179.9							
72	179.1	178.2	177.6	176.9	176.5	177.5	178.9	179.0							
96	179.4	179.2	179.4	178.7	178.4	179.6	181.2	183.4							
120	185.9	191.7	196.7	197.5	198.8	201.0	203.7	202.5							
144	201.6	200.9	200.6	197.7	195.4	195.8	196.7	197.4							
168	198.5	196.3	194.6	193.6	193.0	193.6	194.6	196.2							
192	198.2	196.5	198.2	199.6	201.4	200.3	199.5	200.6							
216	203.5	199.5	199.3	199.2	199.5	197.8	196.4	195.9							
240	195.9	194.7	194.1	195.3	196.9	197.4	198.2	197.1							
264	196.4	195.7	195.4	194.1	193.3	193.5	194.0	193.6							
288	193.5	193.7	194.1	193.5	193.0	193.1	193.6	192.7							
312	192.1	192.8	193.9	193.9	195.4	198.1	201.4	201.0							
336	201.1	195.1	193.9	193.0	192.6	191.0	189.8	192.2							

DEPTH	2613.1			TILT			25			VOS			5941.99		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	189.3	186.9	185.4	185.5	185.9	186.8	188.0	188.6							
24	189.6	189.0	188.8	188.1	187.8	185.7	184.1	182.9							
48	182.0	180.2	179.1	179.0	179.5	178.6	178.2	176.4							
72	175.2	174.3	173.8	173.6	173.7	174.4	175.5	175.2							
96	175.2	172.1	169.5	169.7	170.3	172.8	175.7	177.8							
120	180.7	186.6	193.3	193.7	194.6	197.5	201.1	203.6							
144	206.6	210.3	215.8	216.5	217.8	222.2	230.4	226.9							
168	224.1	223.6	223.5	223.3	223.6	223.6	224.1	221.2							
192	218.9	217.8	217.3	218.1	219.5	218.4	217.9	213.7							
216	210.1	206.7	203.8	203.1	202.9	200.5	198.5	196.6							
240	195.1	195.2	195.9	195.7	195.9	192.3	189.3	189.5							
264	190.1	188.9	188.0	187.2	186.7	186.7	186.7	188.8							
288	191.4	189.6	188.3	187.4	187.0	187.0	187.5	187.2							
312	187.3	188.2	189.6	189.4	192.0	193.9	196.4	196.3							
336	196.7	192.1	188.3	187.4	187.0	188.5	190.4	189.7							

DEPTH	2613.1			TILT			20			VOS			5941.99		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	185.7	182.8	181.2	181.5	182.3	182.3	182.8	184.5							
24	186.7	186.4	186.5	185.8	185.7	183.1	181.0	179.4							
48	178.4	177.1	176.0	174.7	174.4	174.1	174.2	172.7							
72	171.6	171.2	171.3	171.4	171.8	171.7	172.1	171.8							
96	171.8	169.1	166.9	168.2	170.0	171.5	173.4	176.5							
120	180.2	183.3	187.0	189.9	193.5	196.2	199.5	202.3							
144	205.6	209.1	210.0	212.6	215.8	220.7	225.2	222.9							
168	221.1	221.9	223.3	221.8	220.8	220.1	219.8	218.3							
192	217.4	215.4	213.9	213.2	213.1	212.6	212.7	204.9							
216	198.1	197.8	198.0	196.5	195.4	190.9	187.1	187.2							
240	187.7	187.1	186.9	184.6	182.7	182.7	183.1	183.6							
264	184.6	182.7	181.2	181.7	182.5	182.4	182.5	182.8							
288	183.6	183.5	183.9	183.0	182.5	182.5	182.8	183.1							
312	183.9	184.0	184.6	185.0	187.0	188.8	191.4	192.4							
336	193.8	188.4	184.4	184.0	184.1	184.5	185.4	185.3							



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2613.1			TILT			15			VOS			5941.99		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	179.9	178.8	178.1	179.7	181.8	181.8	182.2	182.0							
24	182.3	182.1	182.3	179.8	177.9	176.3	175.1	174.7							
48	174.7	172.7	171.2	170.8	170.4	169.5	169.1	169.2							
72	169.8	167.9	166.4	166.2	166.3	166.5	167.1	166.4							
96	166.1	163.2	160.8	163.8	167.4	169.1	171.3	174.3							
120	178.4	181.5	185.2	187.1	189.6	193.5	198.0	201.4							
144	205.6	206.3	208.7	210.6	213.2	217.9	223.4	222.4							
168	222.0	219.9	218.5	218.1	218.3	216.4	215.0	213.0							
192	211.5	211.9	212.9	211.2	210.0	209.6	209.8	200.9							
216	193.2	191.8	190.9	189.5	188.6	187.5	187.0	185.4							
240	184.4	184.7	185.4	181.4	178.6	178.0	177.8	178.7							
264	179.9	178.4	177.3	176.8	176.8	176.6	176.8	177.2							
288	178.1	178.3	178.9	178.4	178.4	178.1	178.4	178.5							
312	179.1	179.6	180.5	181.9	183.6	185.3	187.5	187.3							
336	187.5	184.2	182.0	180.7	179.9	181.8	184.1	181.8							

DEPTH	2613.1			TILT			10			VOS			5941.99		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	176.5	174.7	173.7	173.9	174.5	177.1	180.2	179.5							
24	179.2	179.3	179.9	176.5	173.7	172.4	171.6	172.8							
48	174.4	170.5	171.8	167.1	167.4	166.4	165.8	166.1							
72	166.9	165.8	165.3	163.2	161.6	162.6	164.0	162.7							
96	161.9	159.7	158.0	161.2	165.0	166.0	167.4	171.0							
120	175.2	177.9	181.2	183.3	185.9	190.3	195.4	198.9							
144	203.2	205.9	209.2	209.1	209.5	216.6	224.9	223.4							
168	222.5	220.3	218.6	218.1	218.1	215.7	213.9	213.8							
192	214.2	212.1	210.5	210.0	210.1	208.3	207.0	199.3							
216	192.9	189.0	185.8	185.8	186.2	185.3	184.9	186.8							
240	189.3	185.5	182.3	177.9	176.3	175.9	176.0	176.4							
264	177.3	175.8	174.7	173.5	172.9	174.1	173.9	174.1							
288	174.7	174.7	175.2	174.3	173.9	173.8	174.2	173.8							
312	173.9	175.1	176.8	177.7	179.1	180.3	182.0	182.0							
336	182.5	179.8	178.9	177.3	176.3	178.5	181.2	178.6							

DEPTH	2613.1			TILT			5			VOS			5941.99		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	172.6	172.0	171.8	171.7	172.0	173.8	176.0	177.1							
24	178.6	177.3	176.5	175.4	174.7	171.1	168.2	169.1							
48	170.5	168.8	167.6	167.3	167.4	164.9	162.9	163.0							
72	163.5	160.7	158.5	158.5	159.0	159.2	159.8	158.8							
96	158.2	156.6	155.4	158.1	161.4	163.1	165.3	167.9							
120	171.0	174.7	179.1	181.9	185.2	188.3	192.0	195.8							
144	200.3	204.0	206.6	205.5	205.0	212.2	220.5	220.3							
168	220.7	218.7	217.3	216.5	216.3	212.9	210.2	211.4							
192	213.3	210.8	209.0	205.2	202.2	203.0	204.4	197.4							
216	191.4	187.3	183.8	183.6	183.8	183.8	184.2	185.3							
240	187.0	183.9	181.4	177.7	174.5	173.9	173.8	174.9							
264	176.5	172.7	169.6	169.7	170.3	170.0	170.1	170.6							
288	171.5	171.9	172.8	171.7	171.0	171.3	172.0	171.4							
312	171.3	172.0	173.3	173.6	174.6	177.7	181.5	180.6							
336	180.1	176.4	173.3	172.8	172.8	173.8	175.2	173.7							



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2613.1			TILT			0			VOS			5941.99		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	171.3	170.2	169.2	169.6	170.5	171.6	173.1	174.8							
24	177.1	175.8	175.0	174.9	175.2	170.3	166.1	167.1							
48	168.7	167.4	166.1	164.7	163.7	162.3	161.4	160.8							
72	160.6	158.1	156.1	156.6	157.4	157.6	158.2	157.8							
96	157.7	155.6	154.0	157.3	161.1	161.9	163.2	166.2							
120	169.7	173.3	177.6	179.5	182.0	185.5	189.6	193.7							
144	198.5	200.8	204.0	203.6	203.7	210.6	218.6	218.8							
168	219.7	216.6	214.2	213.5	213.4	211.4	210.0	207.3							
192	205.3	205.9	207.1	203.4	200.3	197.0	194.3	191.8							
216	189.9	186.0	182.8	183.2	184.1	183.7	183.9	184.3							
240	185.2	183.3	182.0	178.4	175.2	174.9	175.0	174.7							
264	175.0	171.7	169.0	169.0	169.5	170.1	171.0	170.4							
288	170.3	170.9	172.1	170.9	170.3	170.5	171.3	170.5							
312	170.3	170.4	171.0	172.3	174.2	176.1	178.6	178.6							
336	179.1	175.8	172.9	172.2	172.1	173.4	175.2	173.0							

DEPTH	2613.1			TILT			-25			VOS			5941.99		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	182.7	182.1	182.4	184.1	186.2	186.8	187.9	188.3							
24	189.2	190.1	191.4	188.0	185.2	184.3	183.9	181.8							
48	180.2	179.7	179.9	176.7	173.9	173.6	173.7	171.9							
72	170.5	170.6	171.2	171.6	172.4	171.9	171.7	170.8							
96	170.2	168.8	167.7	171.2	175.2	175.9	176.9	179.8							
120	183.2	188.4	191.7	194.8	198.4	201.9	204.7	206.8							
144	209.4	210.3	211.4	211.9	212.8	211.0	209.6	211.0							
168	212.9	211.4	210.4	209.0	208.1	211.7	215.9	216.1							
192	216.8	215.9	215.4	213.7	212.4	209.7	207.6	206.8							
216	206.4	203.5	200.4	196.3	192.9	191.7	190.9	189.3							
240	188.2	186.1	184.6	183.0	182.5	182.3	182.4	181.7							
264	181.5	181.6	182.2	182.2	182.6	183.0	183.1	183.1							
288	183.6	182.7	182.2	181.9	181.9	182.4	183.4	184.1							
312	185.1	185.0	185.3	186.2	187.7	190.5	193.9	191.7							
336	190.0	188.3	187.9	187.0	186.4	183.9	181.9	182.1							

DEPTH	2613.1			TILT			-30			VOS			5941.99		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	174.4	174.6	174.6	177.1	179.9	181.7	183.9	182.4							
24	181.2	182.6	184.4	181.5	178.9	179.1	179.7	179.1							
48	178.9	178.6	178.2	177.3	179.6	181.1	182.9	183.1							
72	183.7	183.3	183.4	180.7	178.4	179.2	180.4	180.6							
96	181.2	178.1	175.4	178.2	181.4	183.0	184.9	181.2							
120	177.9	179.6	181.7	183.5	185.7	187.0	188.7	191.8							
144	195.7	196.7	196.4	196.2	196.4	195.7	195.4	197.2							
168	199.4	199.0	198.9	197.3	196.2	200.0	204.5	201.6							
192	199.2	197.6	196.4	195.6	195.2	196.5	198.2	194.4							
216	191.2	191.5	192.3	189.9	187.7	185.7	184.1	180.3							
240	176.9	176.3	176.0	174.1	172.4	170.9	169.7	169.8							
264	170.1	169.8	169.8	170.5	171.6	174.5	178.0	176.5							
288	175.4	174.4	173.7	171.7	170.0	173.1	176.3	177.3							
312	178.6	179.2	180.2	181.3	182.5	183.7	185.4	184.5							
336	184.0	182.7	181.4	180.7	180.5	179.0	177.8	176.0							



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2613.1			TILT -35			VOS 5941.99		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	161.2	160.8	159.7	166.2	172.7	173.2	173.9	172.1	
24	170.7	171.5	172.7	171.8	171.2	171.8	172.7	171.0	
48	169.7	169.1	169.3	171.4	174.7	175.5	176.7	177.2	
72	177.9	178.3	178.9	182.4	184.7	183.0	181.7	180.1	
96	178.9	178.4	178.2	177.8	177.7	177.4	177.5	173.6	
120	170.2	171.9	173.9	175.0	176.4	176.3	176.4	182.1	
144	187.7	187.9	190.2	190.6	191.4	190.0	189.0	190.3	
168	192.0	191.9	192.2	190.5	189.2	191.4	194.1	191.4	
192	189.2	188.1	187.4	186.9	186.7	187.6	188.9	187.4	
216	186.2	184.2	182.2	178.7	175.7	174.0	172.7	171.0	
240	169.7	167.7	166.1	165.1	164.2	163.3	162.8	161.8	
264	161.1	163.5	166.7	168.8	171.2	172.8	174.8	171.3	
288	168.2	169.6	171.4	168.8	166.6	166.2	166.1	166.6	
312	167.4	170.7	174.4	172.7	172.9	172.3	171.9	171.7	
336	171.7	170.3	169.0	168.7	168.7	167.9	167.5	164.4	

DEPTH	2613.1			TILT -40			VOS 5941.99		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	154.2	154.0	154.5	159.4	165.7	166.8	168.2	166.8	
24	165.7	166.2	167.0	167.3	167.9	167.7	167.7	165.0	
48	162.6	161.1	160.4	163.6	164.6	167.0	169.7	169.7	
72	170.0	171.5	173.4	174.5	175.9	177.7	179.9	177.8	
96	176.2	174.7	173.4	172.3	171.5	170.9	170.7	167.3	
120	164.2	165.6	167.2	168.3	169.7	170.1	170.7	173.7	
144	177.1	180.0	183.1	182.5	182.2	182.0	182.2	182.7	
168	183.4	183.7	184.2	184.3	184.7	186.6	188.9	186.7	
192	184.9	182.5	180.4	181.0	181.9	180.9	180.2	179.4	
216	178.9	178.6	178.7	173.4	168.7	167.4	166.5	164.9	
240	163.7	160.9	158.5	157.3	156.0	154.8	154.0	153.0	
264	152.2	156.9	162.2	163.8	165.6	166.1	167.0	165.4	
288	164.1	163.5	163.2	161.2	159.5	157.8	156.5	156.6	
312	157.0	160.6	164.2	164.9	165.5	165.1	165.0	162.8	
336	160.5	162.2	163.5	162.1	161.0	160.5	160.2	157.0	

DEPTH	2613.1			TILT -45			VOS 5941.99		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	147.5	147.4	147.2	153.3	160.0	162.0	164.5	163.5	
24	162.7	161.2	160.0	160.2	160.7	160.4	160.2	157.1	
48	154.2	154.9	154.0	154.6	151.7	156.5	161.7	162.2	
72	165.2	167.2	169.5	170.7	172.2	172.9	173.9	173.8	
96	173.9	171.9	170.2	167.8	165.7	163.3	161.5	161.7	
120	162.2	162.0	162.0	162.5	163.2	166.5	170.2	171.0	
144	171.9	173.8	175.4	175.2	175.2	176.2	177.4	177.8	
168	178.4	181.3	184.4	182.7	181.2	182.7	184.4	182.8	
192	181.4	178.3	175.7	173.7	171.9	171.6	171.5	171.1	
216	171.0	169.3	168.0	166.6	165.5	164.0	162.7	159.5	
240	156.7	155.0	153.5	152.2	151.5	150.1	149.0	148.5	
264	148.0	152.5	157.2	157.7	158.5	158.8	158.7	158.4	
288	158.2	157.9	157.7	153.8	150.2	151.1	152.2	152.4	
312	152.7	156.5	160.7	161.3	162.2	161.4	160.7	160.9	
336	161.2	160.7	161.2	159.7	158.5	154.9	151.7	149.6	



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2613.1		TILT		-50		VOS		5941.99
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	145.0	144.7	145.0	150.5	156.2	156.6	157.2	157.3	
24	157.5	157.6	158.0	157.5	157.2	156.3	155.5	153.6	
48	152.0	151.5	151.0	148.9	147.0	148.2	149.7	153.6	
72	159.5	162.3	165.5	164.3	165.5	164.6	167.2	164.5	
96	166.5	164.1	162.5	159.7	157.2	156.0	155.0	156.5	
120	158.2	160.0	162.1	161.1	160.2	163.4	167.2	167.5	
144	168.0	170.1	172.7	172.0	171.5	173.4	175.7	175.6	
168	175.7	175.1	174.7	176.2	177.9	178.9	180.1	178.1	
192	176.3	174.3	172.4	171.3	170.3	170.2	170.3	167.9	
216	165.7	163.9	162.0	160.2	158.7	157.8	157.0	155.1	
240	153.5	152.8	152.2	148.7	147.2	145.5	144.0	147.6	
264	151.3	152.9	154.7	154.9	155.2	155.2	155.7	155.5	
288	155.5	155.0	154.7	150.3	146.5	147.2	148.0	148.7	
312	149.5	149.4	149.5	153.4	157.7	157.5	157.5	155.9	
336	154.5	156.6	160.0	159.9	160.0	154.1	149.5	147.1	

DEPTH	2613.1		TILT		-55		VOS		5941.99
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	142.6	143.0	142.4	142.4	142.4	148.0	154.6	155.1	
24	155.8	156.0	156.4	155.1	153.9	154.7	155.6	152.8	
48	151.3	150.3	151.3	148.1	146.7	146.0	145.5	148.3	
72	151.3	152.2	153.3	154.3	157.4	154.5	150.7	152.8	
96	153.1	153.8	154.6	152.6	150.9	151.6	152.5	153.4	
120	154.3	158.0	162.0	160.0	158.2	160.6	163.2	164.6	
144	166.9	167.1	166.7	169.9	173.3	174.6	176.0	175.9	
168	176.0	174.4	172.9	176.8	178.2	177.7	177.5	177.1	
192	177.0	174.0	171.3	169.2	167.3	168.0	168.9	167.3	
216	165.8	165.5	165.3	165.6	166.1	163.0	160.0	159.1	
240	158.4	154.9	152.0	148.0	142.8	142.7	142.6	147.3	
264	152.3	151.9	151.5	152.1	152.7	152.7	152.7	151.6	
288	150.5	150.2	150.1	147.3	144.7	145.4	146.3	146.7	
312	147.3	147.3	147.5	151.3	155.6	154.7	153.9	153.4	
336	152.9	155.3	156.6	153.7	150.9	146.7	142.8	142.7	

DEPTH	2613.1		TILT		-60		VOS		5941.99
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	142.0	142.2	141.4	141.4	141.4	147.9	155.0	155.1	
24	155.4	156.3	157.2	156.3	155.6	154.9	154.3	152.5	
48	150.7	150.5	151.1	148.9	146.9	146.8	146.9	145.8	
72	144.9	145.3	145.9	150.1	154.8	154.2	153.7	155.0	
96	156.4	154.4	152.5	148.9	145.5	148.1	150.9	151.6	
120	152.3	155.9	160.8	159.2	157.8	158.1	158.6	161.8	
144	165.3	164.9	167.5	168.3	169.7	171.0	172.5	174.3	
168	176.2	175.1	174.1	177.6	179.8	177.9	176.4	175.3	
192	174.4	173.8	173.2	174.3	175.5	173.4	171.4	172.2	
216	173.2	173.7	174.3	172.8	171.4	171.4	171.6	169.9	
240	168.3	162.8	157.9	156.6	155.8	155.5	155.4	154.5	
264	153.7	152.6	151.5	151.4	151.3	152.1	151.9	151.5	
288	151.1	148.7	146.5	146.2	146.1	146.8	147.6	147.8	
312	148.2	147.3	146.5	150.2	154.8	154.0	153.3	153.9	
336	154.6	156.1	157.8	153.6	150.5	146.7	143.3	142.6	



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2618.1		TILT	0		VOS	5945.24	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	171.7	170.4	170.1	170.0	170.4	171.3	172.7	174.4
24	176.6	175.6	175.1	174.6	174.5	170.0	166.2	167.0
48	168.3	167.0	166.2	164.4	163.0	161.6	160.7	160.3
72	160.4	158.1	156.2	156.8	157.8	158.1	158.8	157.8
96	157.3	155.2	153.6	156.7	160.4	162.1	164.3	166.7
120	169.6	173.3	177.7	178.3	179.5	184.0	189.2	193.4
144	198.3	200.7	203.3	203.3	203.8	210.5	218.2	218.1
168	218.5	216.3	214.8	214.0	213.8	211.8	210.4	208.1
192	206.5	206.4	207.0	203.4	200.4	197.2	194.7	191.8
216	189.4	185.9	182.9	183.7	185.0	184.5	184.5	184.9
240	185.8	184.5	183.7	179.3	176.1	176.1	176.6	172.5
264	169.0	168.8	169.0	168.9	169.3	170.0	171.1	170.6
288	170.6	170.8	171.4	170.4	169.8	170.1	170.9	170.2
312	170.1	170.4	171.1	172.3	174.0	176.1	178.7	178.7
336	179.2	175.7	173.0	172.2	171.9	173.4	175.3	173.2

DEPTH	2623.1		TILT	0		VOS	5945.51	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	171.4	170.2	169.3	169.6	170.4	171.6	173.2	174.4
24	176.1	174.8	174.0	174.0	174.5	170.0	166.2	166.9
48	168.0	166.5	165.7	164.0	163.0	161.4	160.2	159.8
72	159.9	157.6	155.7	156.5	157.8	157.8	158.3	157.6
96	157.3	155.2	153.6	156.2	159.4	161.3	163.8	166.8
120	170.4	173.1	176.4	177.7	179.5	184.0	189.2	193.4
144	198.4	200.3	202.8	202.7	203.1	210.2	218.5	217.5
168	217.2	215.2	213.8	213.9	214.6	212.3	210.6	207.8
192	205.7	205.8	206.5	202.9	199.9	196.7	194.2	192.1
216	190.5	187.7	185.5	184.8	184.5	183.6	183.2	184.2
240	185.8	183.7	182.1	179.7	176.6	176.1	176.1	171.6
264	167.7	168.0	168.8	168.7	169.1	169.9	170.9	170.3
288	170.1	170.9	172.2	170.8	169.8	170.1	170.9	170.3
312	170.1	170.1	170.6	172.1	174.0	176.6	179.8	179.1
336	179.0	175.6	172.7	172.1	171.9	173.1	174.8	172.9

DEPTH	2628.0		TILT	0		VOS	5946.34	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	170.9	169.6	168.6	169.0	169.9	170.8	172.2	174.0
24	176.4	175.1	174.3	174.3	174.8	170.3	166.5	167.0
48	168.0	166.2	165.2	163.5	162.0	160.6	159.7	159.7
72	160.2	157.6	155.5	155.9	156.8	157.3	158.3	157.6
96	157.3	155.4	153.9	156.1	158.9	161.3	164.4	167.1
120	170.4	173.4	176.9	179.3	182.2	185.2	189.0	193.2
144	198.1	199.7	201.8	202.0	202.8	209.5	217.2	218.0
168	219.3	216.2	213.8	213.1	213.0	211.2	209.9	207.2
192	205.2	205.4	206.2	202.9	200.2	196.9	194.2	191.9
216	190.3	186.8	184.0	184.3	185.0	183.2	181.9	183.5
240	185.6	183.7	182.4	179.8	177.4	175.5	174.0	170.3
264	167.2	167.7	168.6	168.7	169.3	169.9	171.2	170.4
288	170.1	170.9	172.2	170.7	169.6	170.0	170.9	170.1
312	169.9	170.3	171.2	171.9	173.5	176.2	179.5	178.9
336	178.8	175.3	172.2	171.7	171.7	173.0	174.8	172.6



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2633.0		TILT	0		VOS	5947.51	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	170.7	169.1	168.4	169.2	170.4	170.7	171.4	173.5
24	176.2	174.9	174.2	174.5	175.4	171.3	167.9	167.1
48	166.7	166.2	164.7	164.0	163.9	161.5	159.7	159.3
72	159.4	157.2	155.4	156.0	156.9	157.3	158.2	156.8
96	155.9	154.6	153.7	156.3	159.4	161.5	164.2	166.5
120	169.4	172.7	176.7	178.9	181.7	185.0	188.9	192.8
144	197.4	199.4	201.4	201.7	202.6	209.5	217.4	217.3
168	217.9	215.6	213.9	213.7	214.1	211.9	210.4	207.7
192	205.6	204.9	204.6	202.1	200.1	196.6	193.6	191.1
216	189.2	186.1	183.7	184.1	185.2	183.0	181.4	183.4
240	185.9	184.3	183.2	180.3	178.4	176.7	175.4	171.6
264	168.4	168.3	168.7	168.7	169.2	170.0	171.2	170.4
288	170.2	170.6	171.4	170.2	169.4	169.8	170.7	170.1
312	169.9	169.9	170.4	172.1	173.4	175.5	178.2	178.3
336	178.9	174.9	171.4	170.9	170.9	172.7	174.9	172.5

DEPTH	2638.0		TILT	0		VOS	5947.44	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	169.7	169.1	169.7	169.3	169.4	171.4	173.9	174.2
24	174.9	174.5	174.7	171.5	168.9	169.1	169.7	167.8
48	166.4	165.9	166.4	164.3	162.2	160.4	159.2	159.2
72	159.7	157.3	155.4	156.1	157.2	157.5	158.2	156.8
96	155.9	155.2	154.9	157.7	160.9	162.6	164.7	167.0
120	169.9	173.3	177.4	179.7	182.7	186.7	191.4	194.4
144	198.1	199.5	203.1	204.5	206.4	212.7	220.1	218.3
168	217.1	215.2	213.9	212.5	211.6	209.8	208.6	205.9
192	203.9	204.7	206.1	202.7	199.9	195.3	191.4	190.0
216	189.1	185.6	182.7	183.3	184.4	183.8	183.7	185.6
240	188.1	185.4	183.2	180.4	178.2	176.7	175.7	171.6
264	168.2	168.3	168.9	169.2	169.9	170.1	171.2	170.3
288	169.9	170.3	171.2	170.2	169.7	170.1	170.9	170.3
312	170.2	170.4	171.2	172.3	174.4	176.8	179.7	178.7
336	178.2	173.8	171.9	171.3	171.2	172.8	174.9	172.0

DEPTH	2648.0		TILT	0		VOS	5948.52	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	170.2	169.7	169.9	169.5	169.4	171.2	173.4	173.6
24	174.2	174.3	174.9	171.0	167.7	168.2	169.2	167.5
48	166.2	164.8	164.4	162.6	161.5	159.7	158.5	158.7
72	159.5	157.1	155.2	155.7	156.7	156.9	157.5	156.2
96	155.5	154.6	154.2	156.9	160.2	161.5	163.2	167.2
120	171.9	173.8	176.2	178.4	181.2	185.7	190.9	193.5
144	196.7	199.5	202.2	202.4	203.2	210.8	219.7	218.4
168	217.7	215.2	213.4	212.6	212.4	210.6	209.4	206.5
192	204.2	204.8	205.9	203.0	200.7	196.8	193.7	190.8
216	188.4	185.3	182.7	183.3	184.4	182.2	180.4	183.3
240	186.7	186.1	185.9	181.2	178.2	175.3	172.9	170.7
264	168.9	168.6	168.7	169.6	170.9	170.8	171.2	170.5
288	170.2	169.3	168.9	168.8	169.2	169.5	170.2	170.1
312	170.4	170.5	170.9	172.2	174.4	176.7	179.4	176.3
336	173.7	172.9	172.2	171.3	170.9	172.7	174.9	172.3



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2658.0			TILT	0			VOS	5948.52	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	169.9	169.3	168.7	167.3	166.4	169.6	173.4	173.8		
24	174.7	174.2	174.2	170.9	168.2	168.0	168.2	166.2		
48	164.7	163.8	163.2	161.5	160.5	159.4	158.7	158.1		
72	158.0	156.2	155.0	155.6	156.7	156.7	157.2	155.7		
96	154.7	153.5	152.7	156.0	160.0	161.1	162.7	165.8		
120	169.4	172.6	176.4	178.5	181.2	185.0	189.4	193.0		
144	197.2	199.2	202.2	204.4	207.2	212.8	219.4	217.5		
168	216.2	214.5	213.4	212.5	212.2	210.5	209.4	206.9		
192	204.9	204.9	205.4	201.6	198.4	196.1	194.4	191.3		
216	188.7	185.1	182.2	182.9	184.2	181.1	178.7	181.8		
240	185.4	183.4	181.9	179.4	178.9	172.5	166.9	167.8		
264	169.2	168.5	168.2	168.7	169.7	170.9	172.2	171.0		
288	170.2	169.3	168.9	169.1	169.7	170.0	170.7	170.2		
312	170.2	170.5	171.2	172.0	173.4	175.8	178.7	176.4		
336	174.7	172.8	170.7	170.5	170.7	172.2	174.2	171.8		

DEPTH	2668.3			TILT	0			VOS	5949.53	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	169.5	168.4	167.7	167.1	167.0	169.4	172.5	173.5		
24	175.0	173.9	173.2	170.3	168.0	167.0	166.5	165.1		
48	164.2	163.0	162.0	161.0	160.5	160.3	160.5	158.7		
72	157.5	155.9	154.7	155.4	156.5	156.8	157.5	156.0		
96	155.0	153.4	152.2	155.6	159.5	161.5	164.0	166.2		
120	169.0	172.3	176.2	178.8	182.0	186.3	191.5	193.7		
144	196.5	198.8	202.0	201.8	202.2	210.2	219.5	218.1		
168	217.5	215.0	213.2	212.9	213.2	210.8	209.0	206.5		
192	204.7	204.8	205.5	201.6	198.5	195.7	193.5	191.1		
216	189.2	185.7	182.7	182.1	182.0	180.1	178.7	179.2		
240	180.2	178.1	176.5	175.1	171.7	170.5	169.7	169.2		
264	169.2	169.1	169.5	169.4	169.7	170.0	171.7	170.5		
288	169.7	168.9	168.5	168.5	169.0	169.2	170.0	169.5		
312	169.5	169.9	170.7	171.8	173.2	175.7	178.7	176.5		
336	174.7	171.9	170.0	170.0	170.5	172.2	174.5	171.7		

DEPTH	2678.1			TILT	0			VOS	5949.61	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	168.7	168.2	169.0	168.7	169.0	170.2	172.0	173.6		
24	175.7	174.6	174.0	170.9	168.5	167.2	166.5	164.6		
48	163.2	163.0	162.0	161.1	159.5	159.8	160.5	158.4		
72	156.7	155.6	155.0	155.6	156.7	156.9	157.5	156.1		
96	155.2	154.0	153.2	156.7	160.7	161.3	162.2	165.3		
120	169.0	172.0	175.7	177.9	180.7	185.1	190.2	192.8		
144	196.0	198.5	201.5	202.5	204.2	210.5	217.7	216.7		
168	216.2	214.7	213.7	212.4	211.7	208.9	206.7	205.0		
192	204.0	204.2	205.0	201.5	198.7	195.7	193.2	190.9		
216	189.2	185.5	182.5	179.0	176.2	177.1	178.5	177.6		
240	177.2	174.8	173.0	172.4	171.5	171.0	171.0	169.4		
264	168.2	168.1	168.5	169.0	170.0	169.5	169.7	169.4		
288	169.5	168.9	168.7	168.5	168.7	169.0	169.7	169.6		
312	170.0	170.2	171.0	171.9	173.0	175.7	179.0	175.8		
336	173.2	171.5	170.7	170.1	170.0	171.6	173.7	171.0		



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2687.9			TILT	0			VOS	5949.94	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	168.5	167.0	167.5	166.4	165.7	168.9	172.7	173.5		
24	174.7	173.7	173.2	170.0	167.2	166.4	166.0	164.7		
48	163.9	163.5	163.6	160.7	158.1	158.0	158.3	156.5		
72	155.3	155.2	155.6	156.0	156.9	157.0	157.5	156.0		
96	155.0	154.0	153.5	156.8	160.7	161.4	162.5	163.7		
120	169.0	171.0	175.7	178.3	181.5	185.6	190.5	192.9		
144	196.0	198.5	201.2	201.4	202.2	209.7	218.5	217.3		
168	216.7	214.5	213.0	212.1	211.7	209.9	208.7	205.3		
192	202.5	203.6	205.2	200.7	197.0	194.9	193.5	191.1		
216	189.2	185.4	182.2	178.3	175.0	175.6	176.7	176.0		
240	175.7	173.5	171.7	169.1	169.7	170.0	170.7	169.4		
264	168.5	169.1	170.2	170.0	170.2	168.4	169.5	169.8		
288	170.5	169.4	168.7	168.9	169.5	169.1	169.2	169.5		
312	170.2	170.3	170.7	171.0	174.0	176.0	178.5	175.5		
336	173.0	171.2	169.7	169.8	170.2	171.7	173.7	170.8		

DEPTH	2698.6			TILT	0			VOS	5950.13	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	157.2	156.3	159.7	162.5	166.0	169.1	172.7	173.2		
24	174.2	173.5	173.2	170.6	168.5	167.0	166.0	164.4		
48	163.2	159.7	160.7	156.4	156.5	157.9	159.7	157.5		
72	155.7	155.0	154.7	155.5	156.7	156.9	157.5	155.9		
96	154.7	153.2	152.0	155.4	159.5	161.4	163.7	166.3		
120	169.5	171.2	173.5	176.6	180.2	183.3	188.5	192.1		
144	196.5	196.0	201.0	201.3	202.2	205.7	209.9	213.1		
168	217.0	214.8	213.2	212.1	211.5	209.2	207.5	205.4		
192	204.0	203.1	202.7	200.7	199.2	195.8	193.0	191.5		
216	190.5	185.5	182.2	178.7	175.7	173.1	171.0	167.7		
240	164.9	161.2	158.1	154.1	151.0	148.2	145.8	146.0		
264	146.8	146.2	146.0	147.5	149.2	154.3	156.0	155.7		
288	155.7	154.1	152.8	149.6	147.2	152.3	159.0	161.4		
312	164.2	163.8	163.7	163.6	166.0	170.3	175.2	173.7		
336	172.7	168.1	169.7	169.5	169.7	164.6	160.2	158.5		

DEPTH	2707.9			TILT	0			VOS	5950.13	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	125.3	126.1	128.8	137.2	148.6	150.8	153.4	153.0		
24	153.0	156.8	161.2	158.4	156.0	155.9	156.2	149.9		
48	144.5	144.1	145.0	147.9	155.7	155.7	156.0	156.3		
72	157.0	155.5	154.5	155.3	156.5	156.7	157.2	155.5		
96	154.2	153.4	153.0	155.4	158.2	156.3	154.7	153.2		
120	152.0	151.3	151.1	153.9	157.3	159.5	162.3	168.9		
144	176.2	177.3	178.5	180.4	183.0	182.3	182.2	185.4		
168	189.2	191.4	194.2	190.8	188.0	188.1	188.7	190.7		
192	193.2	191.7	190.7	187.7	185.2	178.9	173.5	173.4		
216	173.7	171.4	169.5	165.0	161.5	158.0	155.0	153.1		
240	151.7	144.1	137.5	135.4	133.8	132.4	131.5	129.2		
264	127.3	132.5	137.8	141.3	145.5	146.7	152.5	146.2		
288	140.8	144.5	148.7	143.1	138.3	137.8	137.8	139.4		
312	141.5	144.8	148.7	149.8	153.7	154.9	156.5	155.0		
336	154.0	149.4	147.5	145.3	143.5	143.7	144.3	133.1		



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2718.1			TILT	0			VOS	5950.13	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	103.7	103.3	103.3	115.3	130.4	134.1	138.5	137.3		
24	136.5	137.7	139.3	137.8	136.7	136.5	136.7	129.7		
48	124.0	120.8	118.3	126.6	136.5	140.7	145.5	145.2		
72	145.3	147.0	149.2	150.1	152.2	150.4	149.0	145.7		
96	143.0	143.2	143.8	142.0	140.7	141.0	141.8	133.9		
120	127.2	130.0	133.2	135.4	138.0	138.2	138.9	148.5		
144	161.7	160.2	162.2	163.1	164.5	163.0	162.0	164.7		
168	168.0	166.1	164.7	166.0	167.7	170.2	173.2	169.8		
192	167.0	162.3	158.2	162.3	167.0	165.0	163.5	161.5		
216	160.0	153.6	149.1	142.2	136.3	134.6	133.3	129.5		
240	126.3	120.7	115.9	113.5	111.5	108.8	106.6	105.5		
264	104.9	113.1	123.4	126.8	131.0	131.8	136.0	131.3		
288	127.3	126.1	125.3	118.9	113.4	114.8	116.5	115.7		
312	115.3	120.8	128.0	129.4	130.1	129.3	128.9	124.8		
336	121.9	123.7	125.8	123.6	121.8	118.3	115.3	108.6		

DEPTH	2727.8			TILT	0			VOS	5950.69	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	86.5	87.1	89.0	98.1	110.4	114.7	119.1	117.4		
24	116.0	113.4	111.2	111.5	112.1	111.1	110.4	105.2		
48	100.8	99.7	99.1	95.3	92.0	92.3	92.8	115.4		
72	120.9	124.3	128.2	130.3	132.8	135.9	139.2	136.2		
96	133.6	130.9	128.7	125.4	122.6	117.6	112.5	113.6		
120	115.1	114.8	114.8	115.8	117.4	121.5	126.3	129.6		
144	133.5	140.2	148.0	148.7	149.8	145.8	142.5	145.3		
168	148.5	149.1	150.0	150.7	151.8	151.7	152.0	151.1		
192	150.5	149.2	148.3	149.9	152.0	148.2	145.0	143.3		
216	142.0	139.5	137.5	130.1	123.8	119.6	116.0	109.7		
240	104.2	102.4	100.8	94.6	89.3	89.7	90.3	94.1		
264	99.0	103.4	108.5	108.0	107.7	108.0	108.4	107.9		
288	107.6	106.9	106.5	97.8	90.2	91.5	93.2	94.5		
312	96.2	96.0	96.2	111.9	115.1	113.4	112.2	111.9		
336	111.9	111.9	113.5	111.7	110.2	102.7	95.4	90.6		

DEPTH	2738.1			TILT	0			VOS	5950.69	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	70.3	70.1	67.0	67.8	68.8	78.2	92.4	93.2		
24	94.3	95.9	97.8	96.1	94.8	92.2	90.0	88.2		
48	85.5	83.5	81.3	80.3	78.5	77.7	77.0	77.8		
72	78.8	78.0	77.5	111.4	112.3	95.7	85.4	117.0		
96	116.4	109.1	101.2	88.9	79.4	83.4	87.9	90.2		
120	92.7	97.8	103.8	101.4	99.5	105.9	113.1	114.2		
144	115.5	118.8	123.1	122.5	122.3	124.4	126.8	127.5		
168	128.7	130.9	133.5	135.7	138.3	139.7	141.5	137.2		
192	133.5	128.2	123.4	120.2	117.4	117.7	118.3	114.7		
216	111.7	107.0	103.8	99.9	96.5	96.3	96.3	95.4		
240	94.8	90.8	87.0	82.0	77.3	79.7	82.5	84.9		
264	87.6	86.7	86.1	87.1	88.4	88.3	88.4	86.2		
288	84.4	80.6	77.3	76.7	76.3	78.2	80.5	80.3		
312	80.3	78.6	77.3	85.5	99.0	97.4	96.0	92.1		
336	88.7	93.0	97.8	90.5	84.8	77.1	70.8	70.4		



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2748.3		TILT	0		VOS	5950.69	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	69.5	63.6	63.8	66.7	70.0	71.0	72.3	74.8
24	77.8	78.8	80.3	78.8	77.5	71.2	66.0	68.7
48	71.8	68.2	65.5	65.2	64.0	63.6	63.3	63.4
72	63.8	65.3	67.0	67.9	69.0	71.8	75.0	75.1
96	75.3	73.7	72.3	72.6	73.0	69.4	66.3	67.2
120	68.3	78.1	88.5	87.7	87.0	87.6	88.4	94.0
144	98.5	100.6	101.0	102.2	103.8	107.9	112.6	112.5
168	112.6	111.4	110.5	113.4	116.7	118.9	121.5	117.3
192	113.5	109.5	106.0	104.6	103.5	103.0	102.8	99.2
216	96.0	95.5	95.3	95.8	96.5	92.7	89.5	88.3
240	87.3	83.2	79.8	78.9	78.3	77.9	77.8	75.9
264	74.3	74.8	75.5	73.5	71.8	72.8	72.5	71.2
288	70.0	63.7	58.5	58.1	57.8	57.8	58.0	60.2
312	62.8	60.2	58.0	62.7	71.8	73.6	75.8	75.8
336	76.1	78.5	81.2	70.8	61.0	61.3	61.8	65.3

DEPTH	2758.2		TILT	0		VOS	5952.85	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	55.1	59.4	63.1	65.9	69.3	69.3	69.6	69.2
24	69.1	70.8	72.8	67.4	62.8	60.8	59.1	59.7
48	60.6	60.4	60.3	60.2	60.3	61.7	63.3	63.6
72	64.1	65.4	67.1	67.8	68.8	69.2	69.8	68.8
96	68.1	68.3	68.8	67.4	66.3	66.5	66.8	66.1
120	65.6	67.3	69.3	72.2	75.6	75.3	75.3	74.1
144	73.1	78.1	83.1	86.0	88.1	92.3	97.3	97.4
168	97.8	99.4	101.3	101.8	103.8	103.2	102.8	102.2
192	101.8	96.6	92.1	91.4	91.1	88.6	86.6	87.4
216	88.6	90.4	92.6	89.5	86.8	86.9	87.3	85.8
240	84.6	80.6	77.1	74.7	71.6	71.7	72.1	69.4
264	67.1	66.7	66.6	64.5	62.8	62.5	67.1	55.2
288	47.1	48.6	50.3	50.7	51.3	52.0	52.8	52.2
312	51.8	47.7	44.3	44.8	42.3	49.2	59.1	61.5
336	64.3	63.9	66.1	63.0	60.3	59.0	57.8	56.3

DEPTH	2768.2		TILT	0		VOS	5953.41	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	58.3	60.9	63.8	64.1	64.6	64.6	64.8	64.1
24	63.6	63.6	63.8	61.9	60.3	58.7	57.3	58.0
48	58.8	58.5	58.3	59.5	60.8	62.1	63.6	64.5
72	65.6	66.0	66.6	66.1	65.8	66.3	67.1	66.6
96	66.3	68.0	70.1	68.0	66.3	66.7	67.3	66.7
120	66.3	65.2	64.3	63.6	63.1	63.8	64.8	68.4
144	71.8	72.1	72.6	75.3	78.6	79.6	80.8	81.9
168	83.3	85.5	88.1	89.0	91.1	87.6	84.3	81.1
192	78.3	79.9	81.8	84.1	86.8	85.8	85.1	85.1
216	85.3	84.6	84.1	84.2	84.6	84.2	84.1	83.8
240	83.8	80.5	77.6	74.5	71.8	67.3	62.6	62.1
264	61.8	62.2	62.8	63.6	64.6	54.4	48.1	47.4
288	46.8	47.2	47.8	48.7	49.8	51.3	53.1	50.9
312	49.1	44.6	41.1	39.9	35.3	38.5	42.6	43.1
336	43.8	47.8	53.6	54.2	55.1	56.1	58.1	58.1



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2778.3		TILT	0		VOS	5953.41	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	59.3	59.7	60.3	60.6	61.1	61.6	62.3	62.5
24	62.8	60.9	59.3	58.5	57.8	56.6	55.6	55.7
48	56.1	56.4	56.8	57.5	58.3	59.6	61.1	62.6
72	64.3	65.4	67.6	66.5	65.6	65.2	65.1	64.9
96	64.8	66.6	68.3	68.3	68.6	68.0	67.6	67.5
120	67.6	65.4	63.3	63.2	63.3	64.5	65.8	68.3
144	70.6	72.4	74.6	70.4	66.8	69.2	72.1	73.6
168	75.3	77.3	79.6	79.1	78.8	78.7	78.8	78.8
192	79.1	81.0	83.1	82.1	81.3	80.5	78.1	78.3
216	78.8	80.9	82.8	84.1	85.6	84.7	84.1	83.5
240	83.1	81.8	80.8	76.8	73.3	70.1	67.3	64.7
264	62.6	61.6	60.8	59.3	58.1	53.9	47.1	46.9
288	46.8	47.4	48.1	48.9	49.8	50.6	51.6	51.7
312	52.1	49.2	46.8	46.6	46.6	47.5	48.6	49.8
336	51.3	52.7	54.6	55.1	55.8	56.2	56.8	58.0

DEPTH	2788.2		TILT	0		VOS	5953.41	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	58.3	57.3	56.6	57.1	57.8	56.8	56.1	55.2
24	54.6	54.0	53.6	54.2	55.1	54.4	53.8	53.4
48	53.1	53.6	54.3	55.8	57.6	59.9	62.1	62.8
72	63.8	63.2	62.8	63.1	63.6	64.5	65.6	65.2
96	65.1	67.2	69.6	71.3	73.3	72.5	71.8	72.0
120	72.3	68.5	65.3	64.9	64.6	65.5	66.6	68.7
144	71.1	71.7	72.6	70.4	68.6	70.9	73.6	75.0
168	77.8	77.8	78.1	78.9	80.1	80.0	80.1	80.3
192	80.8	81.8	83.1	82.6	82.3	81.2	80.3	81.2
216	82.3	83.7	85.3	85.9	86.8	85.9	85.3	84.4
240	83.8	81.8	80.1	77.8	75.8	72.3	69.3	69.0
264	68.8	66.5	64.6	62.7	61.1	58.5	56.3	55.5
288	54.8	57.6	60.8	58.8	57.1	58.9	61.1	57.0
312	53.6	53.4	53.3	55.2	57.3	57.1	57.1	55.6
336	54.3	53.9	53.6	55.2	57.1	57.6	58.3	58.2

DEPTH	2798.0		TILT	0		VOS	5953.95	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	60.1	58.5	57.1	57.2	57.6	56.7	56.1	55.0
24	54.1	53.7	53.6	54.1	54.8	53.6	52.6	52.7
48	53.1	54.2	55.6	56.9	58.6	59.5	60.6	62.0
72	63.6	62.9	62.3	62.6	63.1	63.8	64.8	64.2
96	63.8	64.4	65.1	66.8	68.8	69.1	69.6	69.2
120	69.1	68.0	67.1	66.2	65.6	65.9	66.3	67.0
144	67.8	69.0	70.1	74.0	78.6	80.3	82.3	84.0
168	86.3	87.1	88.1	87.8	87.8	87.0	86.3	85.3
192	84.6	85.8	87.3	88.2	89.3	87.6	86.1	85.5
216	85.1	86.4	88.1	89.8	91.8	89.4	87.3	87.1
240	87.1	84.0	81.3	79.0	77.1	74.3	71.8	70.4
264	69.3	66.6	64.3	62.3	60.6	59.0	57.6	56.3
288	55.3	55.5	55.8	56.1	56.6	56.3	56.1	55.2
312	54.6	54.2	54.1	54.9	55.8	55.7	55.8	55.4
336	55.1	55.1	55.3	56.2	57.3	57.9	58.6	59.2



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2803.1		TILT	0		VOS	5953.97	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	59.1	57.8	56.8	57.2	57.8	56.7	55.8	54.6
24	53.6	53.2	53.1	53.8	54.6	53.7	53.1	53.4
48	53.8	54.7	55.8	57.6	59.6	61.3	63.3	63.1
72	63.1	62.6	62.3	62.7	63.3	64.0	64.8	64.2
96	63.8	64.5	65.3	66.7	68.8	69.1	69.6	69.2
120	69.1	68.3	67.8	66.8	66.1	66.1	66.3	67.6
144	69.3	69.6	70.1	73.8	78.1	80.4	82.8	84.2
168	85.8	86.1	86.6	87.1	87.8	86.4	85.3	84.8
192	84.6	86.2	88.1	88.1	88.3	86.4	84.8	85.5
216	86.3	87.2	88.3	89.9	91.8	89.7	87.8	87.7
240	87.8	84.2	81.1	79.1	77.3	75.3	73.6	71.4
264	69.6	67.1	65.1	62.7	60.6	59.0	57.6	56.3
288	55.3	55.6	56.1	56.1	56.3	56.2	56.3	55.6
312	55.1	54.7	54.6	55.0	55.6	55.6	55.8	54.9
336	54.1	54.6	55.3	56.1	57.1	56.9	56.8	57.8

DEPTH	2808.0		TILT	0		VOS	5953.97	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	59.1	58.1	57.3	57.6	58.1	56.6	55.3	54.4
24	53.6	53.9	54.3	54.4	54.6	53.6	52.8	52.9
48	53.1	54.3	55.8	56.8	58.1	59.7	61.6	62.0
72	62.6	62.4	62.3	62.6	63.1	64.2	65.3	64.5
96	63.8	64.0	64.3	65.5	66.8	68.1	69.6	69.5
120	69.6	68.5	67.6	66.6	65.8	66.1	66.6	67.7
144	69.1	70.0	71.1	74.6	78.3	80.4	82.8	84.2
168	85.8	86.5	87.3	87.6	88.1	86.6	85.3	85.3
192	85.6	86.3	87.3	87.0	86.8	85.6	84.6	86.3
216	88.3	88.7	89.3	90.4	91.8	91.1	90.6	88.9
240	87.6	85.2	83.1	80.7	78.6	76.6	75.1	72.7
264	70.6	67.6	65.1	63.5	62.3	60.7	59.3	57.7
288	56.3	55.9	55.6	55.9	56.3	56.1	56.1	55.6
312	55.3	54.5	53.8	54.6	55.6	55.6	55.8	54.9
336	54.1	54.6	55.3	55.9	56.6	56.9	57.3	58.1

DEPTH	2813.3		TILT	0		VOS	5953.97	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	57.6	57.9	58.3	58.5	58.8	57.3	56.1	55.2
24	54.6	55.0	55.6	55.0	54.6	53.5	52.6	52.9
48	53.3	54.6	56.1	57.3	58.8	60.3	62.3	62.4
72	62.6	62.5	62.6	63.2	64.1	64.0	64.1	63.6
96	63.3	63.7	64.3	63.9	63.6	66.1	69.1	68.9
120	68.8	68.1	67.6	66.9	66.3	66.7	67.3	68.5
144	69.8	71.2	72.8	75.8	79.8	80.9	82.3	83.8
168	85.6	86.3	87.3	87.3	87.6	86.4	85.6	85.8
192	86.3	86.3	86.6	86.0	85.6	85.8	86.3	87.1
216	88.1	89.3	90.8	90.8	91.1	90.1	89.3	88.1
240	86.8	84.8	83.1	81.0	79.3	76.9	74.8	72.6
264	70.6	67.6	65.1	63.3	61.8	61.0	60.3	59.0
288	57.8	56.6	55.6	55.5	55.6	55.6	55.8	55.2
312	54.8	54.1	53.6	54.5	55.6	55.7	56.1	55.7
336	55.6	55.7	56.1	56.4	56.8	55.3	54.1	55.7



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2818.3		TILT	0		VOS	5953.97	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	57.8	58.0	58.3	58.6	59.1	57.7	56.6	55.9
24	55.3	55.5	55.8	54.9	54.1	53.2	52.6	53.0
48	53.6	54.5	55.6	57.0	58.6	59.6	62.1	62.4
72	62.8	62.2	61.8	62.5	63.3	63.6	64.1	63.7
96	63.6	63.6	63.8	64.1	64.6	66.3	68.3	68.7
120	69.3	68.2	67.3	66.9	66.6	66.9	67.3	68.6
144	70.1	71.0	72.1	75.0	78.3	80.3	82.6	84.0
168	85.8	86.6	87.6	87.5	87.6	86.4	85.6	86.1
192	86.8	85.8	85.1	85.2	85.6	86.1	86.8	87.6
216	88.6	88.6	88.8	89.5	90.3	90.0	89.8	88.3
240	87.1	84.8	82.8	81.2	79.8	77.3	75.1	72.8
264	70.8	68.5	66.3	63.6	61.3	60.5	59.8	58.9
288	58.1	57.1	56.3	55.7	55.3	55.2	55.3	55.0
312	54.8	54.0	53.3	54.2	55.3	55.2	55.3	55.6
336	56.1	56.1	56.3	56.4	56.6	55.6	54.8	56.2

DEPTH	2822.9		TILT	0		VOS	5954.31	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	58.8	58.6	58.6	58.7	59.1	57.7	56.6	56.4
24	56.3	56.6	57.1	55.4	54.6	53.7	53.1	53.2
48	53.6	54.7	56.1	56.1	58.1	59.9	62.1	62.1
72	62.3	62.0	61.8	62.6	63.6	63.7	64.1	63.6
96	63.3	63.4	63.6	63.7	64.1	66.1	68.3	69.0
120	69.8	68.6	67.6	67.1	66.8	67.0	67.3	68.6
144	70.1	71.3	72.8	75.4	78.3	80.3	82.3	83.8
168	85.6	86.1	86.8	86.8	87.1	86.3	85.8	86.3
192	87.1	84.9	83.1	84.3	85.8	85.5	85.3	86.8
216	88.6	88.8	89.3	90.2	91.3	91.0	90.8	88.3
240	86.1	84.6	83.3	82.1	81.1	79.0	77.1	74.1
264	71.6	69.6	67.8	65.3	63.3	61.2	59.3	59.0
288	58.8	56.6	54.8	55.0	55.3	55.3	55.7	55.3
312	55.3	54.0	52.8	53.7	54.8	55.0	55.3	55.2
336	55.3	55.5	55.8	56.0	56.3	56.2	56.3	57.5

DEPTH	2828.0		TILT	0		VOS	5954.49	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	59.6	59.6	59.8	59.9	60.1	58.6	57.3	57.0
24	56.8	57.2	57.8	56.3	55.1	54.4	53.8	53.6
48	53.6	54.7	56.1	57.2	58.6	59.8	61.3	61.7
72	62.3	61.6	61.1	62.3	63.8	63.6	64.3	63.7
96	63.1	62.9	62.8	63.5	64.3	66.1	68.1	68.8
120	69.8	68.5	67.3	67.0	66.8	67.1	67.6	68.4
144	69.3	70.6	72.1	74.8	78.3	80.3	82.6	83.9
168	85.6	86.2	87.1	86.8	86.8	86.1	85.6	85.2
192	85.1	83.7	82.6	83.7	85.1	86.2	87.6	88.0
216	88.6	89.1	89.8	90.7	91.8	91.1	90.6	88.7
240	87.1	85.6	84.3	82.8	81.6	80.3	79.3	75.6
264	72.1	69.8	67.8	65.2	62.8	61.7	60.8	59.6
288	58.6	56.7	55.1	55.0	55.1	54.7	54.6	54.7
312	55.1	53.7	52.6	53.6	54.8	55.0	55.3	55.7
336	56.3	57.2	58.3	57.2	56.3	56.5	56.8	58.1



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2833.0			TILT	0			VOS	5954.49	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	91.3	89.9	88.8	87.7	86.8	85.0	83.1	80.7		
24	78.6	77.6	76.8	75.3	74.1	73.1	72.4	72.0		
48	71.8	69.7	67.8	67.7	67.8	67.4	67.1	66.4		
72	65.8	65.6	65.6	65.7	63.3	67.3	68.8	69.8		
96	71.1	66.9	63.3	63.7	64.3	66.4	68.8	68.7		
120	68.8	68.0	67.3	67.2	67.3	67.6	68.1	68.5		
144	69.1	69.7	70.6	74.5	78.6	80.4	82.6	84.0		
168	85.6	86.0	86.6	86.6	86.8	86.1	85.6	84.1		
192	82.8	82.6	82.6	84.3	86.3	87.3	88.6	88.2		
216	88.1	89.4	91.1	92.0	93.1	91.8	90.8	88.8		
240	87.1	85.4	84.1	83.2	82.6	81.1	79.8	77.0		
264	74.6	71.5	68.6	66.3	64.3	62.8	61.6	60.1		
288	59.3	57.6	56.1	55.5	55.1	54.7	54.6	54.7		
312	55.1	64.8	69.5	75.5	82.8	86.4	89.7	89.7		
336	90.0	91.3	92.9	90.9	89.3	89.6	90.1	90.6		

DEPTH	2838.0			TILT	0			VOS	5954.49	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	102.1	101.3	98.6	95.2	93.1	90.7	88.6	86.9		
24	85.6	84.7	84.1	82.9	81.9	80.7	79.8	78.8		
48	78.1	77.6	77.3	76.2	75.3	72.4	69.8	71.8		
72	74.1	74.2	74.6	75.2	76.1	76.8	77.8	77.5		
96	77.3	84.4	85.8	88.6	91.8	95.8	100.1	104.0		
120	108.6	110.4	112.6	74.7	73.8	76.0	78.5	78.4		
144	78.5	78.1	78.0	78.2	78.6	80.5	82.3	83.7		
168	85.3	86.0	86.8	86.7	86.8	86.2	85.8	84.6		
192	83.6	83.5	83.6	84.8	86.3	88.1	90.1	89.6		
216	89.3	90.1	91.1	92.2	93.6	92.3	91.3	90.5		
240	89.8	87.3	85.1	84.1	83.3	81.8	80.6	78.2		
264	76.1	72.9	70.1	78.1	92.1	169.3	153.6	158.5		
288	60.8	162.0	62.6	158.9	157.9	157.3	157.1	157.6		
312	158.6	159.9	161.6	158.5	155.9	152.9	150.4	149.5		
336	149.1	151.1	153.7	110.9	102.6	106.4	102.1	105.6		

DEPTH	2843.1			TILT	0			VOS	5954.49	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	151.6	151.5	151.9	150.8	150.1	149.6	97.7	149.0		
24	149.0	148.8	149.0	142.8	137.5	88.9	88.1	86.8		
48	85.7	83.3	81.3	81.7	82.2	83.3	84.6	85.2		
72	86.1	88.5	92.1	169.6	173.3	175.3	177.8	112.3		
96	96.0	97.3	98.9	101.9	105.5	204.1	208.3	210.5		
120	123.1	125.0	127.4	126.0	124.9	126.3	128.1	131.1		
144	232.3	132.6	127.9	126.8	126.1	125.4	124.9	122.8		
168	121.0	108.7	96.7	89.4	86.7	86.3	86.1	84.8		
192	83.7	84.6	85.8	86.9	88.2	88.9	90.0	91.2		
216	91.5	231.1	92.9	227.9	95.0	225.5	92.6	221.3		
240	89.7	215.8	213.9	209.9	85.2	201.8	198.1	197.4		
264	197.1	191.0	187.6	183.6	180.2	173.9	168.6	164.8		
288	162.3	160.6	159.4	158.9	158.8	158.1	157.9	158.1		
312	158.7	160.3	162.2	158.9	156.1	153.3	151.0	150.0		
336	149.5	151.8	154.6	152.7	151.3	151.5	152.2	151.7		



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2848.1			TILT	0			VOS	5954.49	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	152.2	152.0	152.2	151.2	150.7	149.9	149.5	149.0		
24	148.9	148.6	148.6	146.9	145.6	146.5	147.7	149.5		
48	151.4	151.8	152.6	155.0	157.9	159.8	162.3	164.6		
72	167.4	168.3	169.8	173.5	177.8	181.5	185.8	186.9		
96	188.2	192.0	196.6	199.1	202.3	204.8	207.9	211.7		
120	216.1	219.5	223.6	230.0	236.4	234.4	232.9	231.3		
144	230.4	232.8	235.9	240.5	246.1	240.7	236.2	239.0		
168	242.4	243.9	246.0	245.8	246.3	247.1	94.1	245.5		
192	91.2	246.1	86.4	247.7	89.1	244.1	91.5	237.1		
216	232.6	229.6	229.3	228.1	227.5	225.7	224.5	222.3		
240	220.7	219.6	219.2	213.7	209.0	205.8	203.1	200.0		
264	197.4	193.9	190.4	182.3	176.3	172.0	168.3	165.3		
288	162.9	162.3	162.1	161.0	160.3	160.8	161.5	160.3		
312	159.0	160.4	161.7	158.8	156.4	153.3	150.7	150.2		
336	150.1	151.7	153.7	152.3	151.3	150.9	151.0	151.4		

DEPTH	2853.0			TILT	0			VOS	5954.49	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	151.9	151.7	151.9	150.9	150.4	149.9	149.8	148.9		
24	148.3	148.1	148.3	148.0	148.0	149.0	150.4	150.9		
48	151.9	152.6	153.7	157.1	159.3	160.9	162.9	165.0		
72	167.7	169.8	172.4	174.7	177.5	181.2	184.9	186.3		
96	188.2	192.2	196.9	200.0	204.3	206.5	209.4	213.2		
120	217.7	220.9	224.8	230.9	237.9	234.3	231.4	231.1		
144	231.4	234.7	238.8	241.9	245.4	240.8	236.7	240.1		
168	244.2	245.5	247.5	247.6	248.4	247.7	247.8	245.9		
192	244.8	246.4	248.7	247.0	246.0	242.5	240.0	236.4		
216	233.5	227.3	222.8	225.5	230.2	228.4	227.2	223.8		
240	221.3	218.9	217.1	213.5	210.5	207.8	205.7	200.5		
264	197.4	190.7	184.9	181.9	176.3	171.2	166.8	164.8		
288	163.2	163.0	163.2	161.5	160.2	160.0	160.2	161.2		
312	162.6	162.7	163.2	159.3	156.1	153.1	150.7	149.9		
336	149.5	151.5	154.0	152.3	151.0	150.6	150.7	151.1		

DEPTH	2858.0			TILT	0			VOS	5955.05	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	151.9	151.6	151.6	150.7	150.1	149.8	149.8	148.4		
24	147.4	147.8	148.6	148.1	148.0	149.2	150.7	152.0		
48	153.7	156.0	159.4	160.0	161.1	162.1	163.5	164.8		
72	167.1	169.9	173.3	175.6	178.4	181.8	185.9	187.4		
96	189.4	192.4	196.0	199.4	203.1	206.1	209.7	212.8		
120	216.5	221.0	227.5	231.7	236.8	233.6	231.1	230.3		
144	230.2	236.0	242.7	242.5	243.0	240.7	239.2	241.3		
168	244.2	245.9	248.4	247.7	247.8	247.4	247.8	245.1		
192	243.3	245.5	248.7	246.7	245.4	239.7	234.7	231.3		
216	228.5	224.9	221.8	225.7	230.4	228.4	227.1	224.0		
240	221.2	219.4	218.3	214.8	212.1	210.0	208.5	201.4		
264	195.4	189.5	184.4	179.9	175.7	170.9	166.8	164.6		
288	162.9	162.9	163.2	161.7	160.5	159.9	159.7	160.9		
312	162.6	162.6	162.9	159.7	157.0	153.5	150.7	150.1		
336	149.8	152.0	154.6	153.9	153.7	152.4	151.6	151.6		



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2863.4			TILT	0			VOS	5955.05	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	152.2	152.0	152.2	151.2	150.7	150.1	149.8	148.7		
24	148.0	148.1	148.6	148.6	148.9	149.9	151.3	152.0		
48	153.1	155.8	159.1	160.3	162.0	162.0	162.3	165.9		
72	170.1	171.8	174.2	175.6	177.5	180.9	185.0	188.1		
96	191.8	193.9	196.3	197.9	200.1	203.9	208.2	211.6		
120	215.9	220.1	225.2	230.9	237.7	233.7	230.5	229.3		
144	228.7	234.9	242.4	241.8	241.8	241.5	241.8	241.9		
168	242.7	243.7	245.4	245.8	246.9	245.5	244.8	243.1		
192	242.1	244.9	248.4	245.2	242.7	239.1	235.6	230.9		
216	226.9	224.2	222.2	225.5	229.6	226.0	223.1	221.7		
240	221.0	221.3	222.2	218.0	214.7	211.6	209.1	203.4		
264	197.6	188.0	180.2	177.8	176.0	170.7	166.2	163.9		
288	162.0	160.5	159.4	159.7	160.5	159.9	159.7	160.9		
312	162.6	162.4	162.6	159.5	157.0	153.9	151.3	150.6		
336	150.4	152.1	154.3	154.5	155.2	153.5	152.2	152.0		

DEPTH	2868.2			TILT	0			VOS	5955.05	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	152.5	152.0	151.9	150.8	150.1	149.9	150.1	149.0		
24	148.3	148.7	149.5	149.0	148.9	149.8	151.0	152.7		
48	154.9	156.7	159.1	160.7	162.9	162.6	162.6	165.2		
72	168.3	171.9	176.9	177.9	179.3	181.7	184.6	188.6		
96	193.0	194.9	197.5	198.4	199.8	202.8	206.4	209.4		
120	214.1	219.2	225.2	227.5	230.5	230.1	230.2	228.7		
144	227.8	234.1	242.4	243.0	244.2	241.9	240.3	241.6		
168	243.6	243.7	244.5	245.4	246.9	246.0	245.7	243.0		
192	240.9	244.4	248.7	245.2	242.4	238.2	234.7	230.0		
216	225.8	223.2	221.3	224.6	228.7	226.3	224.6	223.2		
240	222.5	222.2	222.5	218.4	215.0	211.9	209.4	202.8		
264	197.2	188.4	180.7	178.3	176.5	171.0	165.9	163.4		
288	161.4	160.3	159.7	159.7	160.2	159.9	159.9	160.8		
312	162.0	162.6	163.5	159.8	156.7	153.3	150.4	149.9		
336	149.8	152.0	154.6	153.9	153.7	152.1	151.0	151.5		

DEPTH	2878.1			TILT	0			VOS	5955.05	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	146.3	148.0	150.1	149.5	149.2	147.9	146.9	146.1		
24	145.8	146.3	147.1	148.8	151.6	152.3	153.4	155.0		
48	157.0	157.3	158.2	162.0	167.1	165.8	165.0	166.3		
72	168.0	173.5	179.9	180.8	182.3	183.2	184.7	185.7		
96	187.3	192.1	197.8	196.0	194.8	197.2	200.1	200.8		
120	201.9	206.2	211.2	213.7	216.8	222.7	229.6	222.7		
144	224.6	227.8	231.4	236.7	243.0	238.9	235.6	238.6		
168	242.4	241.3	240.9	240.3	240.3	238.7	237.7	235.5		
192	234.1	235.0	236.5	234.2	232.6	231.8	231.7	227.7		
216	224.6	221.9	219.8	222.4	225.8	225.4	225.8	225.2		
240	225.2	225.4	226.1	219.6	214.1	212.8	212.1	202.9		
264	191.2	182.1	173.1	170.6	168.6	165.5	159.7	157.8		
288	156.4	156.3	156.7	154.5	152.8	153.0	153.7	155.1		
312	157.0	155.6	154.6	153.3	152.5	150.2	148.6	148.4		
336	148.6	150.4	152.8	150.5	148.6	147.1	146.0	145.9		



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2888.1			TILT	0			VOS	5955.37	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	142.1	142.9	144.2	140.5	137.3	139.6	142.4	142.5		
24	143.0	142.9	143.3	146.0	149.2	152.7	156.7	156.0		
48	155.8	156.3	157.3	161.4	166.2	167.0	168.3	171.9		
72	176.0	177.0	178.4	179.6	181.4	184.5	188.2	186.8		
96	185.9	191.0	198.1	196.6	195.7	194.1	193.0	194.1		
120	195.7	199.5	204.0	208.0	212.7	212.8	213.6	217.9		
144	223.1	224.5	226.7	231.8	237.4	234.3	232.3	231.7		
168	231.7	234.1	236.8	238.1	240.1	236.2	234.1	233.0		
192	232.6	227.7	223.7	225.7	228.4	227.4	227.0	221.9		
216	217.7	216.8	216.5	219.7	223.7	227.9	232.9	229.4		
240	226.7	225.3	224.6	220.0	216.2	213.7	211.8	204.2		
264	197.5	182.4	170.1	166.9	164.3	160.4	156.9	152.3		
288	148.3	149.3	150.7	148.7	147.2	150.0	153.4	153.0		
312	153.1	153.0	153.4	149.7	146.6	144.6	143.0	143.4		
336	144.2	146.3	148.9	148.6	148.6	145.1	142.1	141.9		

DEPTH	2897.9			TILT	0			VOS	5955.58	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	136.1	139.0	142.4	140.8	139.7	138.6	137.9	137.4		
24	137.3	140.6	144.5	148.5	154.9	154.7	154.9	154.8		
48	155.2	155.0	155.2	162.5	166.8	169.9	173.7	174.3		
72	175.4	176.7	178.4	180.3	183.2	184.9	187.1	185.5		
96	184.4	189.8	196.0	195.0	194.5	195.7	197.5	195.3		
120	193.6	198.1	203.1	205.6	208.8	211.0	213.9	218.2		
144	223.4	222.9	223.1	227.9	233.5	228.8	224.9	227.5		
168	230.8	232.7	235.3	235.1	235.6	230.1	225.5	224.1		
192	223.4	221.1	218.0	218.6	219.8	218.3	217.4	215.5		
216	214.2	217.4	221.3	224.1	229.6	226.9	224.9	226.2		
240	228.2	225.1	222.8	218.2	214.5	213.4	213.0	203.6		
264	196.3	182.1	168.9	162.5	158.2	151.8	148.3	146.9		
288	148.1	146.0	145.4	145.2	145.4	146.8	149.5	148.1		
312	147.2	146.5	146.3	140.8	134.4	137.9	142.1	140.6		
336	139.4	140.6	142.1	141.0	140.3	139.4	138.8	137.3		

DEPTH	2898.0			TILT	-24			VOS	5955.58	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	131.7	130.5	129.7	128.9	128.4	128.7	129.2	134.9		
24	141.3	146.1	150.8	157.0	164.3	165.1	166.3	170.9		
48	175.1	177.4	180.5	178.8	177.6	181.0	185.0	183.4		
72	182.2	184.1	186.4	189.3	192.8	194.6	197.6	198.5		
96	199.8	199.4	199.5	198.8	198.5	196.5	194.9	192.7		
120	191.4	187.8	184.8	184.7	185.1	187.6	190.5	182.1		
144	177.2	179.3	182.2	188.4	196.4	195.1	194.3	199.4		
168	205.4	203.3	201.7	203.4	205.5	206.0	207.5	208.1		
192	209.3	210.1	211.4	217.8	224.7	228.3	232.6	238.4		
216	243.9	250.4	256.4	260.8	265.2	264.7	264.7	256.6		
240	254.3	246.3	239.9	239.7	240.1	238.0	236.5	234.3		
264	232.6	215.3	222.6	211.7	202.2	197.3	190.1	195.3		
288	198.6	192.9	186.4	183.6	181.3	171.4	168.0	156.5		
312	151.2	148.2	145.9	143.2	141.0	140.6	140.5	140.7		
336	141.3	140.3	139.7	136.4	134.2	133.0	132.2	131.8		



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2898.0		TILT		-27		VOS		5955.58
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	135.5	130.5	128.4	128.3	128.4	130.8	133.4	137.6	
24	143.4	148.0	153.6	161.5	168.4	169.1	170.1	172.0	
48	174.3	179.4	182.2	181.8	181.8	184.5	188.0	186.2	
72	185.2	187.3	190.0	192.9	196.3	199.8	203.8	205.0	
96	206.8	206.3	206.4	203.8	201.8	199.2	198.0	197.8	
120	198.0	193.5	189.7	189.1	188.9	189.9	191.4	182.4	
144	175.0	178.2	182.5	190.8	200.5	196.8	194.1	200.3	
168	207.7	203.9	200.6	203.6	207.2	207.4	208.0	207.0	
192	206.4	213.8	217.6	223.6	232.8	238.7	246.7	251.2	
216	256.4	261.5	267.0	271.1	276.0	275.8	276.1	268.5	
240	262.2	255.4	250.1	250.5	251.4	249.2	247.6	243.8	
264	247.2	211.6	199.8	199.5	199.5	205.0	211.4	208.6	
288	206.4	205.5	205.1	201.4	198.0	190.7	185.1	171.2	
312	165.9	163.8	162.6	153.5	152.6	149.9	147.6	147.6	
336	148.0	144.9	142.2	140.0	138.0	137.8	138.0	136.6	

DEPTH	2898.0		TILT		-30		VOS		5955.58
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	146.3	140.8	137.2	134.7	132.6	135.5	139.0	142.2	
24	144.2	152.8	161.4	167.3	173.0	173.2	173.8	176.1	
48	178.8	183.2	189.7	188.5	187.6	190.2	193.0	191.8	
72	190.9	192.3	194.1	197.1	200.6	205.2	209.0	211.3	
96	214.7	213.2	212.2	210.4	209.3	206.3	203.9	201.7	
120	200.1	199.9	200.1	197.2	194.7	194.1	193.9	187.2	
144	180.9	184.9	189.7	195.5	201.8	199.5	197.6	202.7	
168	208.1	206.7	205.8	208.1	210.9	210.3	210.2	215.6	
192	220.2	226.5	233.6	237.8	242.4	246.2	252.4	260.5	
216	266.8	273.9	282.9	289.2	352.3	352.8	354.4	321.9	
240	346.9	328.5	312.7	311.3	259.4	242.0	292.2	227.1	
264	227.3	213.5	196.4	186.4	180.5	195.3	226.8	223.1	
288	220.1	220.1	220.5	218.0	215.9	211.0	207.3	198.1	
312	193.4	189.1	188.4	183.0	181.0	166.0	163.0	160.7	
336	158.9	156.7	154.8	153.8	153.2	151.3	149.9	147.9	

DEPTH	2898.0		TILT		-33		VOS		5955.58
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	174.6	162.9	159.3	155.1	151.6	153.1	155.0	171.6	
24	171.9	171.9	172.2	176.5	181.3	181.3	181.8	184.2	
48	186.4	189.8	193.7	196.7	200.1	203.4	210.1	208.4	
72	206.2	209.0	211.1	213.8	217.0	220.2	225.3	230.4	
96	235.3	240.1	244.7	340.0	342.6	344.5	347.1	348.6	
120	206.2	206.7	207.5	204.1	201.5	199.0	196.9	192.0	
144	185.5	191.4	195.9	200.1	206.5	204.6	203.2	207.7	
168	214.6	213.7	213.3	215.3	217.8	220.6	223.7	228.3	
192	234.5	241.6	249.0	250.6	252.7	350.4	359.4	298.2	
216	351.0	294.3	270.9	278.9	288.0	292.6	298.1	294.2	
240	304.7	294.8	286.1	286.0	286.5	282.6	227.4	216.9	
264	210.8	204.9	191.4	187.1	177.2	207.1	284.3	230.8	
288	283.5	263.7	269.3	257.1	246.4	238.6	231.6	229.0	
312	226.8	221.9	214.3	208.3	202.9	197.9	191.5	192.1	
336	193.0	192.7	192.7	180.8	183.0	180.2	178.8	176.5	



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2898.0			TILT -36			VOS 5955.58		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	231.4	207.9	236.0	199.6	238.5	205.1	240.1	207.2	
24	241.8	220.2	249.3	221.4	252.6	191.6	189.5	190.9	
48	193.0	203.8	213.1	218.1	272.2	248.4	228.9	288.3	
72	228.9	301.8	306.4	310.7	316.0	317.4	320.2	321.5	
96	323.5	326.6	330.2	333.8	337.7	342.3	347.7	351.5	
120	356.0	354.6	353.9	354.6	356.0	355.9	206.5	201.2	
144	196.1	198.9	212.2	211.8	211.8	209.8	208.0	213.1	
168	216.9	221.8	228.2	351.3	353.9	353.9	354.4	344.1	
192	335.1	337.1	343.9	328.3	323.9	327.0	331.4	295.3	
216	276.4	287.8	257.0	260.3	264.0	258.2	257.6	266.1	
240	266.8	265.3	264.3	265.1	266.4	263.7	261.1	211.9	
264	200.5	196.7	193.4	186.0	180.5	177.6	174.7	216.9	
288	293.9	243.1	288.5	287.0	286.0	285.5	285.6	278.5	
312	272.2	261.8	252.6	241.7	246.8	231.3	230.5	231.6	
336	233.0	227.5	222.6	225.3	228.5	220.1	229.3	209.5	

DEPTH	2898.0			TILT -39			VOS 5955.58		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	239.3	240.6	242.6	244.5	246.8	244.5	246.8	261.0	
24	264.7	273.6	283.5	277.4	288.9	283.3	298.5	272.1	
48	296.4	284.0	300.6	290.1	298.1	270.4	291.0	290.0	
72	303.5	304.2	303.1	308.9	315.6	312.1	321.0	321.7	
96	323.9	326.5	330.6	328.1	328.9	330.1	331.8	335.1	
120	338.9	337.4	336.4	339.7	343.5	345.9	348.9	351.5	
144	354.8	352.6	351.0	351.9	353.5	352.4	352.0	348.5	
168	345.6	345.9	346.9	346.6	346.9	335.6	325.6	320.1	
192	313.5	313.7	313.1	308.2	298.9	302.8	307.2	286.5	
216	254.7	255.5	256.7	251.9	250.3	249.6	249.3	253.2	
240	261.4	259.9	258.9	257.3	256.2	251.2	245.9	231.2	
264	202.7	190.6	185.5	184.7	181.8	178.6	175.9	173.6	
288	171.8	213.9	296.0	296.4	297.2	295.5	294.3	286.8	
312	280.2	270.5	261.8	260.7	258.5	249.4	240.5	242.4	
336	244.7	242.2	240.1	238.9	238.0	234.7	236.8	237.8	

DEPTH	2898.0			TILT -42			VOS 5955.58		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	249.7	258.9	252.6	266.4	282.2	265.1	286.4	277.5	
24	290.2	289.7	289.7	288.1	294.3	291.0	300.2	287.6	
48	293.1	291.8	293.1	292.5	300.2	260.6	293.5	278.8	
72	291.4	289.2	303.1	295.9	299.7	302.9	298.9	303.6	
96	308.9	311.3	313.1	315.4	318.1	316.2	314.8	318.4	
120	323.5	329.4	336.0	336.8	338.1	339.9	342.3	338.4	
144	335.2	340.0	345.6	345.1	345.2	343.0	341.4	340.8	
168	340.6	340.1	340.2	332.7	326.0	317.9	309.3	303.8	
192	298.9	297.3	298.5	287.1	285.2	280.5	276.4	275.8	
216	254.3	253.3	252.2	245.3	238.8	241.0	246.4	249.4	
240	252.0	253.2	254.2	251.5	248.3	249.4	251.4	221.6	
264	197.2	193.2	184.0	179.7	178.3	175.9	173.8	170.8	
288	169.3	211.1	283.5	282.4	281.8	288.7	296.4	295.8	
312	295.6	287.0	279.3	271.7	268.9	262.1	254.7	253.7	
336	253.1	249.1	245.5	243.7	242.2	245.2	242.2	245.7	



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2898.0		TILT		-45		VOS		5955.58
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	281.4	269.0	283.1	288.0	293.5	272.1	293.1	285.4	
24	292.7	290.4	288.5	283.7	286.4	284.4	282.7	283.7	
48	282.7	282.0	281.4	283.6	285.6	243.7	281.0	254.7	
72	276.8	270.8	263.9	275.5	289.3	272.3	294.3	290.8	
96	294.7	299.6	305.2	298.6	306.4	301.5	297.2	305.8	
120	315.6	321.9	328.9	330.1	331.8	326.8	322.3	323.1	
144	324.3	328.0	332.3	334.7	337.7	334.9	332.7	332.7	
168	333.1	328.4	324.3	319.7	315.6	307.3	299.3	297.4	
192	296.0	287.6	279.1	271.2	262.2	261.9	261.9	258.3	
216	255.1	249.3	246.3	246.9	247.7	246.7	246.0	244.8	
240	243.9	242.2	240.5	241.4	242.4	244.0	245.9	219.2	
264	198.6	193.4	187.6	177.3	177.2	178.5	180.1	173.7	
288	169.3	167.4	166.3	208.0	276.4	279.4	282.7	283.3	
312	284.3	283.3	282.7	278.6	280.2	277.1	269.3	267.5	
336	266.0	260.5	255.6	255.0	254.7	257.2	278.5	279.7	

DEPTH	2898.0		TILT		-48		VOS		5955.58
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	289.7	282.2	291.4	288.7	286.4	281.9	283.1	284.9	
24	282.2	281.2	280.6	275.0	272.6	273.5	276.4	270.9	
48	273.1	267.2	270.6	267.0	268.5	215.6	268.4	230.6	
72	264.3	256.4	255.6	252.9	250.6	258.6	267.6	265.3	
96	259.3	264.7	270.6	276.7	273.5	280.7	288.9	296.3	
120	304.4	305.0	306.0	307.4	309.8	313.3	317.3	318.7	
144	320.6	315.7	311.4	308.7	307.6	307.9	309.4	311.1	
168	313.2	311.9	310.9	308.0	304.2	301.4	298.9	294.1	
192	289.7	279.3	272.6	267.1	258.5	256.4	254.7	254.8	
216	255.1	248.4	242.0	243.5	245.1	243.3	242.2	240.8	
240	239.7	234.5	232.3	233.6	235.3	237.9	241.0	220.2	
264	200.4	187.3	190.5	178.6	169.3	170.5	172.6	170.0	
288	166.3	165.6	163.8	161.6	158.8	159.6	160.5	203.5	
312	278.1	281.2	284.7	282.9	291.0	288.0	293.5	283.2	
336	273.9	272.1	270.6	269.4	268.5	270.8	287.7	288.5	

DEPTH	2898.0		TILT		-51		VOS		5955.58
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	285.2	283.9	285.6	284.2	283.1	275.5	279.3	274.2	
24	272.2	270.8	269.7	262.7	261.8	260.7	261.0	260.3	
48	247.6	251.6	247.6	245.5	246.4	198.6	241.8	218.7	
72	239.7	240.2	234.7	234.4	234.3	246.9	254.7	250.8	
96	247.2	254.6	262.6	264.7	266.4	273.5	281.8	287.4	
120	293.5	296.2	299.3	298.2	297.5	300.8	304.1	302.9	
144	302.0	304.8	307.9	306.9	306.3	305.7	305.5	303.5	
168	301.8	295.5	290.2	292.5	295.2	289.9	285.2	281.1	
192	278.1	271.1	264.1	258.3	252.6	249.1	246.0	247.2	
216	248.7	245.9	242.6	241.5	244.3	238.6	233.3	233.2	
240	233.3	229.6	226.0	227.5	229.3	230.5	232.2	223.0	
264	203.0	187.2	178.2	176.6	175.1	171.6	170.9	168.4	
288	166.8	165.4	164.3	162.7	162.6	163.1	163.8	185.5	
312	268.5	272.9	278.1	234.1	279.3	284.4	288.9	288.3	
336	288.1	290.4	293.1	293.1	293.5	260.7	281.4	283.1	



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2898.0			TILT -54			VOS 5955.58		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	281.4	277.6	280.2	275.1	270.6	233.4	267.2	262.6	
24	267.2	263.7	260.6	246.6	243.5	237.9	249.7	224.9	
48	243.5	229.3	224.7	222.7	221.8	191.7	214.3	208.8	
72	233.5	232.5	231.8	231.7	231.8	237.4	240.1	241.4	
96	243.9	251.4	259.6	259.3	259.8	264.9	270.5	277.2	
120	285.6	285.6	286.0	283.5	281.4	285.0	288.9	289.8	
144	291.0	293.9	297.2	295.1	293.9	290.8	288.1	287.3	
168	286.8	278.3	269.7	268.1	266.8	270.9	275.1	267.8	
192	262.6	255.9	257.2	249.8	243.0	243.1	243.5	243.6	
216	243.9	241.3	239.9	237.3	235.5	235.0	234.7	231.0	
240	228.9	226.2	223.9	224.4	225.1	228.2	233.5	230.5	
264	207.1	195.0	178.5	179.1	180.5	170.7	168.7	166.7	
288	163.8	163.8	163.8	162.9	161.8	161.7	161.8	157.6	
312	174.4	164.3	155.5	196.8	272.6	249.8	279.7	282.8	
336	286.4	284.1	282.2	281.2	280.6	220.1	280.2	280.6	

DEPTH	2898.0			TILT -57			VOS 5955.58		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	277.2	194.1	271.4	265.2	260.1	185.1	254.3	195.0	
24	254.7	248.1	242.2	216.7	220.9	205.6	205.5	198.6	
48	206.4	199.4	203.0	197.0	186.6	199.7	197.6	210.1	
72	233.1	238.3	242.6	242.8	243.2	239.6	235.9	240.1	
96	244.7	250.7	257.2	257.3	262.2	262.3	262.6	266.6	
120	271.0	268.8	271.4	273.3	275.5	275.8	276.4	276.7	
144	277.4	278.6	280.2	281.7	283.5	280.4	277.6	276.3	
168	275.1	269.1	263.9	262.4	261.1	261.9	263.1	253.0	
192	242.6	243.4	236.8	238.4	240.1	240.9	241.8	239.3	
216	237.2	234.6	232.2	231.9	231.4	230.6	230.1	226.6	
240	223.5	221.0	218.9	220.1	221.4	223.4	225.6	227.5	
264	230.5	202.3	198.0	190.0	190.9	176.0	168.3	164.9	
288	163.5	164.9	166.5	167.3	168.0	163.0	160.2	158.0	
312	155.7	155.7	155.6	166.1	178.3	188.9	193.8	194.4	
336	195.2	196.3	197.7	200.7	204.1	192.5	275.1	275.8	

DEPTH	2898.0			TILT -60			VOS 5955.58		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	152.8	179.7	148.9	148.5	148.0	182.3	154.2	191.1	
24	194.7	178.6	164.7	180.6	169.4	178.3	169.7	180.7	
48	172.1	178.7	181.0	176.4	175.4	189.7	180.6	209.2	
72	231.2	233.9	236.7	238.1	239.7	240.4	241.2	241.3	
96	241.5	243.1	246.9	248.5	251.0	247.0	244.3	245.2	
120	247.0	254.5	263.2	265.7	268.3	268.8	269.5	268.7	
144	268.0	269.7	271.6	270.6	269.8	267.7	265.9	266.9	
168	268.0	260.5	254.8	255.1	255.5	251.3	247.4	244.1	
192	240.3	240.3	242.1	234.5	230.8	233.8	237.9	233.8	
216	231.4	228.7	226.3	224.3	225.4	221.0	221.0	216.5	
240	217.4	217.6	218.0	217.8	217.7	217.8	218.0	220.5	
264	226.9	209.8	196.6	186.8	194.2	188.6	184.6	167.2	
288	161.9	164.4	168.5	167.9	167.6	165.1	167.1	162.9	
312	159.3	155.5	156.3	153.9	151.6	151.5	150.7	150.6	
336	150.6	150.6	152.0	156.4	161.1	187.7	162.3	157.4	



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2898.0			TILT -65			VOS 5955.58		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	161.7	159.1	158.4	155.8	154.8	159.3	165.9	163.5	
24	168.2	164.9	165.6	164.5	163.5	159.0	156.0	159.7	
48	163.9	164.1	162.8	165.4	172.3	181.4	203.5	214.9	
72	222.6	226.7	230.7	229.9	229.3	229.1	229.1	229.5	
96	234.4	218.5	236.7	220.9	240.6	241.4	242.4	239.6	
120	242.5	247.3	251.5	251.9	252.4	253.7	255.0	253.9	
144	252.9	250.2	248.3	247.3	246.4	245.5	244.7	242.8	
168	241.0	237.8	237.0	235.3	233.8	231.1	228.6	225.4	
192	222.6	222.6	224.2	223.7	223.3	218.6	214.1	215.1	
216	213.6	212.2	210.9	207.2	204.3	202.5	200.1	201.0	
240	200.7	204.4	208.1	208.9	211.5	215.3	218.4	218.9	
264	219.6	209.7	194.3	193.6	190.1	182.7	176.8	179.5	
288	182.5	180.1	178.9	176.2	175.7	169.3	159.9	162.6	
312	165.9	162.7	158.7	158.1	157.5	156.4	153.1	156.0	
336	157.8	159.2	161.1	152.9	149.8	155.9	162.9	161.3	

DEPTH	2898.0			TILT -70			VOS 5955.58		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	173.9	168.7	165.9	165.8	165.9	159.8	159.7	163.0	
24	170.9	170.6	171.5	169.4	168.1	169.7	181.3	184.7	
48	187.8	187.8	187.6	197.4	209.8	211.3	213.0	215.6	
72	218.1	219.8	221.6	217.5	214.5	214.7	214.9	215.8	
96	216.9	210.0	205.5	209.1	212.2	216.2	221.1	224.0	
120	226.8	229.2	231.7	232.4	233.2	234.2	235.4	235.3	
144	235.2	233.8	232.5	231.7	231.1	225.4	221.6	221.5	
168	221.5	219.2	217.1	216.9	216.8	214.2	211.9	210.6	
192	209.5	207.3	205.9	205.6	205.3	203.5	201.8	201.1	
216	200.7	200.7	200.7	199.3	198.0	197.5	197.0	196.8	
240	196.6	198.8	201.2	202.5	204.1	206.1	208.3	210.6	
264	213.1	207.1	197.7	196.6	195.9	194.0	192.0	191.7	
288	191.4	189.8	187.6	184.1	174.5	176.8	178.7	172.5	
312	167.4	172.2	173.8	167.5	164.4	165.0	168.8	167.0	
336	165.9	169.1	174.1	165.7	154.9	158.1	159.1	166.8	

DEPTH	2898.0			TILT -75			VOS 5955.58		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	187.9	184.1	181.9	182.6	184.0	177.8	174.3	174.2	
24	174.2	189.0	195.9	192.5	187.7	196.3	204.1	200.6	
48	195.7	204.6	211.4	212.1	212.8	212.9	213.0	213.7	
72	214.5	212.6	211.1	210.5	210.0	210.4	210.8	209.3	
96	207.8	209.0	210.3	212.1	214.0	215.0	216.1	216.0	
120	216.0	215.2	214.4	214.3	214.2	214.9	215.7	215.3	
144	215.0	212.5	210.7	210.2	209.7	209.0	208.3	208.7	
168	209.2	208.7	208.2	207.2	206.3	205.7	205.2	204.2	
192	203.4	199.8	196.8	195.9	195.0	196.4	198.3	198.2	
216	198.1	197.9	197.8	197.9	198.1	198.5	198.9	199.0	
240	199.1	199.3	199.6	199.4	199.2	199.8	200.4	201.0	
264	201.6	202.2	202.8	200.7	198.8	196.9	195.3	194.5	
288	193.8	192.2	190.7	189.8	188.9	187.3	186.0	185.2	
312	184.4	184.1	183.8	182.1	178.7	181.5	182.8	179.4	
336	171.9	180.5	183.7	182.1	180.1	180.3	180.5	185.6	



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2908.2			TILT	0			VOS	5955.58	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	135.8	136.5	137.6	137.4	137.6	135.0	132.9	132.5		
24	132.6	137.1	142.4	148.1	155.2	155.1	155.5	154.8		
48	154.6	159.6	165.3	167.0	169.2	170.6	172.2	172.7		
72	173.7	174.9	176.6	179.0	182.0	183.4	185.3	185.3		
96	185.9	189.1	192.7	192.6	193.0	193.8	195.1	194.1		
120	193.6	196.9	200.8	202.8	205.5	208.9	213.0	215.2		
144	221.9	222.8	224.3	227.3	231.1	227.2	224.0	226.3		
168	229.3	229.8	230.8	231.1	232.0	229.0	226.7	225.0		
192	224.0	220.4	217.4	217.4	218.0	216.2	215.1	214.3		
216	214.2	216.8	220.1	225.0	230.8	229.5	228.8	224.2		
240	220.4	217.9	215.9	210.6	204.0	208.3	213.3	203.5		
264	194.8	182.7	171.0	164.2	158.5	150.4	144.5	143.2		
288	142.4	140.4	138.8	139.7	140.9	143.2	146.0	147.4		
312	149.2	147.8	146.9	141.9	137.6	135.8	134.4	136.5		
336	139.1	138.2	139.1	138.1	137.6	136.4	135.5	135.5		

DEPTH	2918.3			TILT	75			VOS	5956.13	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	419.0	418.6	418.2	418.7	419.3	419.0	418.9	418.9		
24	418.9	418.5	418.1	418.0	418.0	418.4	418.9	418.3		
48	417.8	418.1	418.6	417.9	417.3	417.3	417.4	417.4		
72	417.4	418.2	419.1	418.2	417.3	417.4	417.6	417.8		
96	418.1	417.4	416.8	416.8	416.9	417.4	417.9	417.8		
120	417.7	417.7	417.9	417.5	417.2	417.6	418.0	417.8		
144	417.7	417.5	417.4	417.4	417.5	417.2	417.0	417.8		
168	418.6	418.2	417.8	417.7	417.7	417.2	416.8	417.5		
192	418.3	418.0	417.8	417.3	416.8	416.8	416.8	416.6		
216	415.8	416.6	416.8	417.3	417.8	418.3	418.8	418.1		
240	417.5	418.4	419.5	419.6	420.4	418.9	417.7	418.0		
264	418.3	417.9	417.6	417.6	417.8	418.9	420.1	419.7		
288	419.4	419.7	420.0	419.0	418.1	418.7	419.4	418.3		
312	417.2	417.7	418.3	153.4	150.7	151.4	152.2	418.5		
336	151.7	420.1	421.3	419.6	418.1	418.0	418.1	418.5		

DEPTH	2918.3			TILT	70			VOS	5956.13	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	164.2	172.1	429.2	428.6	428.2	429.2	430.3	429.7		
24	429.2	429.7	430.4	428.9	427.7	428.5	429.9	429.7		
48	429.6	429.6	174.2	429.0	429.0	428.7	428.5	428.7		
72	428.9	428.4	428.0	427.8	427.8	427.7	427.7	429.0		
96	430.5	429.8	429.3	429.2	429.3	428.9	428.8	427.8		
120	427.0	428.9	430.9	431.3	431.8	431.0	430.5	430.6		
144	430.8	430.2	429.8	429.6	429.6	428.9	428.3	429.1		
168	430.0	429.4	428.9	428.6	428.4	428.2	428.4	428.8		
192	429.3	428.0	428.3	430.0	431.8	430.7	429.8	431.0		
216	432.3	431.6	431.3	429.9	428.7	428.1	427.7	428.2		
240	428.9	429.1	429.3	429.4	429.7	430.9	432.3	431.0		
264	429.9	429.5	429.3	429.3	429.4	158.3	145.1	144.6		
288	144.1	144.4	144.6	144.1	143.6	143.7	143.6	149.9		
312	145.1	145.4	145.6	145.6	145.6	146.9	148.1	148.1		
336	148.1	152.3	156.2	156.9	157.7	173.8	167.9	166.0		



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2918.3			TILT			65			VOS			5956.13		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	138.8	136.2	133.9	134.6	135.4	133.4	131.6	128.5							
24	125.8	125.5	125.4	126.6	128.3	126.2	124.3	125.2							
48	126.2	128.5	130.7	133.6	136.7	141.0	147.2	147.6							
72	148.1	154.0	158.0	156.0	154.2	153.6	153.1	152.7							
96	152.5	157.8	164.5	162.6	160.8	160.7	160.8	158.4							
120	156.2	154.0	152.2	151.6	151.2	153.4	155.8	161.3							
144	170.3	443.8	443.9	441.6	440.7	443.4	444.7	444.2							
168	443.8	443.1	442.5	443.9	445.5	443.9	442.5	442.8							
192	443.2	443.0	443.0	444.9	448.2	446.7	445.5	444.6							
216	442.6	440.8	437.0	434.8	432.8	429.8	426.8	421.3							
240	415.0	417.4	420.2	175.7	168.8	161.5	156.2	153.2							
264	150.3	150.1	149.9	146.6	143.6	138.9	134.6	132.3							
288	129.9	130.5	131.2	132.0	132.9	132.3	131.7	130.3							
312	128.9	128.4	127.9	129.4	130.9	131.0	131.1	129.0							
336	127.1	128.5	129.9	132.2	134.5	135.8	137.2	137.9							

DEPTH	2918.3			TILT			60			VOS			5956.13		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	114.9	115.3	115.8	116.4	117.2	114.7	112.3	111.8							
24	111.3	111.7	112.2	110.2	107.3	107.7	108.2	107.1							
48	106.1	106.3	106.7	112.6	113.5	119.9	123.3	123.1							
72	123.1	124.5	126.0	125.8	125.7	127.8	130.5	128.5							
96	126.8	127.4	128.3	132.8	136.9	137.5	138.4	137.8							
120	137.3	135.8	134.4	132.9	131.2	131.5	131.9	134.0							
144	136.1	137.6	139.9	142.4	145.0	145.3	145.7	149.5							
168	151.9	154.4	157.0	156.9	157.0	157.3	157.7	157.9							
192	158.3	161.3	164.6	167.1	170.0	159.5	157.1	157.4							
216	157.9	161.2	165.8	166.7	167.7	167.9	168.3	167.0							
240	165.9	163.2	160.8	155.4	150.6	145.9	141.6	139.7							
264	137.9	133.5	129.4	126.3	123.2	121.3	119.6	117.4							
288	115.3	112.0	108.9	108.6	108.5	110.4	111.1	110.3							
312	107.3	105.8	104.4	106.5	108.9	109.3	109.8	109.8							
336	109.9	110.4	111.1	111.5	112.1	111.5	111.1	112.9							

DEPTH	2918.3			TILT			55			VOS			5956.13		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	108.5	107.8	107.3	107.5	107.9	107.2	106.7	108.7							
24	110.8	110.2	109.6	108.7	107.9	108.0	108.2	108.3							
48	108.5	107.5	106.7	106.6	106.7	106.8	107.0	106.9							
72	107.0	106.6	106.4	106.5	106.7	110.9	111.4	110.4							
96	109.8	109.4	109.0	110.1	111.4	114.7	118.5	119.4							
120	120.4	118.7	117.1	116.4	115.9	116.2	116.7	119.0							
144	121.5	123.6	125.9	130.9	135.8	139.6	144.2	146.2							
168	148.1	148.4	149.0	149.1	149.4	148.8	148.3	147.5							
192	146.7	148.1	149.7	150.2	150.8	149.4	148.1	147.7							
216	147.4	149.2	151.1	152.2	153.4	152.6	151.9	151.6							
240	151.3	145.8	140.7	138.1	135.8	133.0	129.9	126.1							
264	122.8	119.7	117.1	113.0	109.2	107.6	106.2	104.3							
288	101.6	101.3	101.0	101.9	102.8	102.9	103.1	103.5							
312	104.0	104.5	106.1	105.6	105.2	105.4	105.8	105.9							
336	106.1	106.0	106.1	106.2	106.4	106.9	107.6	108.0							



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2918.3			TILT			50			VOS			5956.13		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	115.9	115.4	115.0	114.0	113.2	114.2	115.3	114.8							
24	114.4	114.0	113.8	112.9	112.0	111.7	111.4	111.2							
48	111.1	109.9	108.8	108.7	108.8	108.2	107.9	108.2							
72	108.8	108.7	108.8	109.0	109.4	109.4	109.6	109.6							
96	109.6	109.0	108.5	108.5	108.8	109.1	109.6	109.3							
120	109.1	107.8	106.7	106.9	107.3	106.9	106.7	106.6							
144	106.7	108.2	109.9	115.2	121.9	124.4	127.5	130.2							
168	132.8	134.0	135.4	135.5	135.7	134.1	132.6	133.3							
192	134.1	133.3	132.7	132.6	132.6	133.3	134.1	135.2							
216	136.5	138.1	139.8	140.8	142.0	140.5	139.1	136.5							
240	134.7	131.4	128.5	126.8	125.3	123.0	121.1	117.4							
264	114.4	110.8	107.9	106.1	104.6	104.7	104.9	104.7							
288	104.6	104.5	104.6	105.6	106.7	107.2	107.9	108.5							
312	109.4	109.9	110.5	111.9	113.5	113.0	112.6	113.4							
336	114.4	113.3	112.3	113.9	115.6	115.7	115.9	115.8							

DEPTH	2918.3			TILT			45			VOS			5956.13		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	125.1	123.8	122.8	121.9	121.3	120.2	119.5	117.9							
24	116.5	115.1	113.8	113.9	114.1	113.4	112.9	112.4							
48	112.0	111.8	111.7	110.8	109.9	110.3	110.8	111.2							
72	111.7	112.0	112.3	112.1	112.0	112.0	112.0	113.1							
96	114.4	114.1	115.6	116.7	118.0	117.8	117.7	117.5							
120	117.4	114.4	111.7	113.2	114.1	113.4	112.9	112.8							
144	112.9	112.4	112.0	111.4	110.8	113.6	117.4	118.9							
168	120.6	121.3	122.2	122.2	122.3	121.4	120.6	118.8							
192	117.2	117.0	117.0	119.1	121.4	122.6	124.1	124.2							
216	124.5	125.6	126.8	127.9	129.2	128.4	127.7	125.0							
240	122.7	120.4	118.3	117.9	117.7	115.5	113.5	111.1							
264	109.1	110.6	112.3	113.1	113.8	114.3	115.0	115.8							
288	116.8	117.7	118.9	118.8	118.9	118.2	117.7	118.5							
312	119.5	119.7	120.1	119.8	119.8	120.6	121.9	122.1							
336	122.5	123.0	123.6	123.4	123.3	123.6	123.9	124.4							

DEPTH	2918.3			TILT			40			VOS			5956.13		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	128.4	126.8	125.4	124.4	123.3	122.0	121.0	119.8							
24	118.9	118.0	117.4	117.0	116.8	116.7	115.9	115.1							
48	114.4	113.3	112.3	112.1	112.0	112.7	113.5	114.6							
72	115.9	116.5	117.1	117.0	117.1	117.6	118.3	118.8							
96	119.5	120.0	120.7	121.7	123.1	124.6	126.6	126.8							
120	127.2	127.0	126.9	125.4	125.1	126.2	127.5	125.4							
144	123.6	121.6	119.8	119.8	120.1	118.3	116.8	117.7							
168	118.9	118.0	117.4	116.6	115.3	114.6	114.1	113.7							
192	113.5	113.3	113.2	114.5	115.9	116.4	117.1	117.6							
216	118.4	120.9	120.0	123.6	122.3	123.6	119.9	123.8							
240	116.8	123.9	123.6	120.2	118.9	119.4	121.6	122.3							
264	123.3	124.0	124.8	124.6	124.5	125.3	125.7	126.2							
288	126.9	128.3	129.9	131.7	133.8	132.2	130.8	130.8							
312	131.1	130.8	130.8	130.1	129.6	128.7	128.1	127.4							
336	126.9	127.6	128.4	127.7	127.2	126.7	126.3	127.3							



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2918.3			TILT			35			VOS			5956.13		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	135.6	139.9	135.3	134.4	133.8	133.6	133.8	132.7							
24	132.0	132.4	133.2	132.0	131.1	130.6	130.8	130.7							
48	130.8	129.0	127.5	130.0	132.9	131.4	130.2	130.8							
72	131.7	132.7	134.1	134.8	141.0	140.7	140.6	132.7							
96	125.7	127.2	129.0	129.9	131.1	132.3	133.8	135.0							
120	136.5	137.5	138.8	139.4	140.3	141.1	142.1	140.2							
144	138.5	137.2	136.2	136.6	137.3	135.9	134.7	133.5							
168	132.6	130.9	129.9	130.7	131.7	129.1	126.9	128.3							
192	129.9	127.5	125.4	127.8	130.5	127.6	125.1	127.2							
216	129.6	133.6	133.8	132.3	131.1	131.9	132.9	135.4							
240	138.2	138.8	139.7	138.9	142.4	141.0	138.8	141.2							
264	143.9	143.8	143.9	141.9	140.3	141.6	143.9	144.5							
288	145.4	146.0	146.9	147.0	147.5	146.7	146.3	143.3							
312	140.6	143.4	146.6	145.2	144.2	145.2	146.6	144.3							
336	142.4	141.4	140.6	138.8	137.3	138.0	138.8	137.0							

DEPTH	2918.3			TILT			30			VOS			5956.13		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	170.4	165.2	161.4	160.0	159.1	159.5	160.3	158.4							
24	157.0	157.5	158.2	154.3	150.7	152.9	155.5	154.2							
48	153.1	151.4	149.9	149.0	148.4	150.3	152.5	153.7							
72	155.2	153.6	152.2	153.5	154.6	153.4	152.5	151.1							
96	147.8	155.3	161.1	161.0	161.2	158.8	156.8	152.2							
120	147.5	148.1	149.0	147.9	147.2	147.9	149.0	150.3							
144	151.0	150.4	149.6	149.0	148.7	148.7	149.0	148.8							
168	149.0	150.7	152.8	154.2	155.8	154.7	154.0	155.1							
192	156.5	159.2	162.3	159.2	156.6	156.7	157.0	159.8							
216	162.9	163.1	164.0	162.6	161.4	160.5	159.8	161.7							
240	163.9	163.3	163.0	166.1	168.0	170.8	173.5	170.7							
264	168.2	170.0	172.1	170.4	169.1	166.2	164.4	165.2							
288	166.3	166.7	167.5	167.2	167.1	168.9	171.0	168.6							
312	166.5	164.4	162.7	163.3	164.3	167.3	170.7	169.8							
336	169.2	166.2	163.6	163.1	162.8	164.7	166.9	168.5							

DEPTH	2918.3			TILT			25			VOS			5956.13		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	167.6	167.5	167.7	166.7	166.1	165.2	164.8	164.2							
24	164.0	163.7	163.7	162.4	161.5	162.6	164.1	165.2							
48	166.8	167.2	168.0	170.3	173.1	174.4	176.1	178.4							
72	181.1	182.2	183.8	185.2	187.1	187.4	188.2	188.1							
96	189.2	188.7	188.6	190.3	192.6	191.8	191.9	187.8							
120	184.5	186.8	189.5	190.8	192.6	194.8	197.6	194.1							
144	189.1	190.9	191.5	192.7	194.3	192.1	190.5	192.4							
168	194.8	193.6	192.8	193.4	194.4	197.5	201.2	199.5							
192	198.2	200.3	202.8	200.6	198.9	198.4	198.3	198.7							
216	199.6	198.9	195.4	197.3	199.8	199.9	200.5	196.9							
240	193.9	194.6	195.7	196.4	192.7	194.2	193.6	194.3							
264	195.4	197.7	200.5	195.8	191.8	187.7	184.1	181.2							
288	179.0	177.0	175.5	175.1	175.2	174.5	174.3	174.8							
312	175.8	176.9	178.7	175.2	172.2	168.9	166.1	165.5							
336	165.4	167.3	169.7	168.0	166.7	166.4	166.4	166.8							



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2918.3		TILT		20		VOS		5956.13
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	161.8	161.6	161.8	160.8	160.2	159.6	159.3	158.2	
24	157.4	157.6	158.2	158.1	158.3	159.4	160.8	161.7	
48	162.9	166.8	171.3	171.7	172.5	172.1	172.2	175.1	
72	177.7	180.5	183.8	186.1	188.8	192.6	197.1	198.4	
96	200.1	204.2	208.9	211.1	213.9	217.3	221.6	223.4	
120	227.0	229.3	232.3	238.1	244.9	242.0	239.8	239.0	
144	239.8	241.7	248.4	252.4	257.4	253.1	249.6	252.1	
168	255.3	254.8	255.3	256.3	258.2	256.4	255.3	254.5	
192	254.4	248.2	242.9	240.7	239.2	244.1	249.9	246.3	
216	243.4	239.5	238.0	237.1	236.8	235.6	235.0	233.5	
240	232.6	228.1	224.0	222.2	220.1	216.4	213.3	211.8	
264	210.9	206.2	202.9	194.6	187.4	182.0	177.3	175.0	
288	173.0	172.6	172.6	171.5	170.7	170.0	169.7	171.1	
312	172.9	172.8	173.2	170.3	168.0	164.2	160.8	160.2	
336	159.9	161.8	164.1	164.1	164.6	162.9	161.8	161.6	

DEPTH	2918.3		TILT		15		VOS		5956.13
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	150.8	152.8	155.2	153.2	151.6	151.4	151.6	150.8	
24	150.4	149.5	149.0	153.2	156.7	157.4	158.5	160.0	
48	162.0	162.7	163.8	167.7	172.3	171.9	171.9	173.0	
72	174.6	178.3	182.6	184.9	187.7	189.1	190.9	195.1	
96	199.9	202.7	206.1	206.3	207.0	210.9	215.7	219.4	
120	223.8	229.0	235.1	240.0	245.8	242.2	239.2	238.6	
144	238.6	242.9	248.0	250.5	254.0	249.4	245.8	248.8	
168	252.6	253.9	255.8	255.8	256.5	256.2	256.6	254.6	
192	253.2	256.1	259.7	257.8	256.5	250.3	244.6	240.3	
216	236.8	232.7	229.4	233.6	238.6	236.8	235.6	231.7	
240	228.8	226.8	225.5	223.0	221.0	219.1	217.8	210.5	
264	205.2	195.5	187.1	184.7	182.9	175.4	173.1	169.7	
288	166.8	165.7	165.0	162.3	160.0	162.3	165.0	164.4	
312	164.1	163.9	164.1	160.6	157.6	155.4	153.5	153.3	
336	153.6	155.7	158.2	155.7	153.8	151.9	150.5	150.5	

DEPTH	2918.3		TILT		10		VOS		5956.13
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	140.7	141.1	141.8	140.1	138.8	138.8	139.1	139.5	
24	140.3	143.2	146.6	149.4	152.8	155.4	158.2	158.0	
48	158.2	158.7	159.7	164.8	170.7	170.6	171.0	174.4	
72	178.4	179.8	181.7	184.1	187.1	187.0	187.4	187.4	
96	188.0	193.8	199.9	198.6	197.8	198.9	200.5	202.8	
120	205.8	206.9	208.5	212.2	216.6	216.4	216.9	222.0	
144	227.9	231.2	235.8	241.2	247.5	243.7	240.7	243.4	
168	246.9	246.9	247.5	249.2	251.7	246.9	242.9	240.3	
192	238.5	240.1	242.5	239.4	237.1	235.9	235.4	231.1	
216	227.5	224.8	222.6	225.5	229.1	228.9	229.4	228.8	
240	228.8	228.9	229.7	223.2	217.8	217.5	217.8	210.1	
264	203.5	185.1	172.5	169.1	166.2	161.6	158.5	154.1	
288	150.4	151.4	152.8	152.3	152.2	150.7	149.6	151.1	
312	153.1	152.9	153.1	145.4	138.8	142.0	145.7	144.5	
336	143.8	145.7	148.0	147.2	146.8	144.4	142.4	141.3	



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2918.3		TILT		-60		VOS		5956.13
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	140.1	138.6	135.5	132.4	130.1	138.3	146.2	145.3	
24	144.4	145.5	147.2	144.7	142.4	141.6	141.5	143.2	
48	144.5	144.9	144.0	146.8	149.1	163.4	163.7	197.3	
72	208.2	211.7	216.2	216.4	216.7	217.3	218.0	217.9	
96	218.0	220.7	221.0	225.6	227.8	225.4	222.8	223.0	
120	223.4	232.1	241.2	242.5	243.9	245.3	246.9	244.1	
144	241.5	241.8	242.1	241.9	241.8	239.9	237.9	236.2	
168	234.7	231.3	228.1	227.2	226.3	223.7	220.1	217.0	
192	214.2	214.8	215.2	211.5	206.4	207.5	208.8	206.2	
216	203.7	201.7	199.8	196.6	195.4	191.7	186.1	190.1	
240	195.7	193.8	196.9	195.1	193.6	196.4	202.5	204.1	
264	205.8	190.2	179.1	175.0	164.4	160.5	161.1	159.5	
288	152.2	153.3	154.4	153.8	153.6	147.6	143.8	143.8	
312	148.3	143.1	134.9	134.8	135.8	134.6	134.0	136.1	
336	138.2	138.0	135.8	132.9	131.6	136.8	143.2	141.4	

DEPTH	2918.3		TILT		-65		VOS		5956.13
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	152.8	145.8	143.2	140.9	138.6	141.4	143.5	143.5	
24	151.0	148.0	145.3	145.6	145.9	146.8	147.8	155.4	
48	167.9	156.1	146.5	157.3	170.8	182.1	195.6	197.9	
72	200.4	203.9	207.9	206.4	204.9	204.8	204.8	199.5	
96	196.4	193.6	185.5	198.1	199.8	202.5	205.4	212.2	
120	219.5	222.9	226.5	227.6	228.8	229.8	230.8	230.3	
144	229.9	227.1	224.2	222.6	221.1	219.1	217.2	216.3	
168	215.2	211.3	207.6	206.9	206.3	204.1	202.5	199.7	
192	197.0	195.7	195.2	194.8	194.5	191.8	187.3	188.7	
216	187.2	187.2	186.2	183.8	179.6	179.1	178.7	178.7	
240	178.7	181.9	184.9	187.8	190.2	192.8	195.6	198.1	
264	200.8	188.8	180.5	178.0	176.0	175.4	174.8	167.9	
288	166.0	165.8	165.7	155.9	153.4	153.3	151.8	148.0	
312	145.6	147.0	150.0	146.8	146.4	144.8	141.8	144.2	
336	146.4	148.1	149.4	139.8	135.9	139.3	141.8	141.7	

DEPTH	2918.3		TILT		-70		VOS		5956.13
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	163.5	154.9	151.6	151.7	151.8	145.5	139.6	148.5	
24	148.9	150.2	164.3	157.3	151.4	159.8	164.1	166.3	
48	166.3	169.2	182.6	187.3	191.7	192.6	193.5	194.5	
72	195.4	197.4	199.5	196.6	193.5	193.6	193.7	194.7	
96	195.5	191.6	187.6	190.0	192.6	196.3	199.4	201.2	
120	203.1	204.1	205.1	205.8	206.5	208.5	210.5	209.7	
144	209.1	208.1	207.3	205.5	204.0	199.0	194.6	194.9	
168	195.3	194.6	194.0	193.6	193.2	190.7	188.4	186.7	
192	185.4	183.4	181.7	181.9	182.3	181.3	180.5	180.9	
216	181.7	179.4	178.1	178.3	178.7	178.6	178.6	178.9	
240	179.1	179.8	180.6	182.6	184.6	185.8	187.0	188.0	
264	189.1	185.0	180.1	176.7	174.0	173.5	173.2	172.9	
288	172.7	171.0	169.8	168.4	166.3	164.2	164.1	162.2	
312	160.2	159.8	159.6	152.9	149.6	151.4	153.9	151.2	
336	150.1	152.8	161.3	154.9	145.4	145.6	145.8	153.0	



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2918.3			TILT -75			VOS 5956.13		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	171.3	169.9	167.9	170.2	171.7	168.1	162.6	166.3	
24	171.7	177.0	178.6	179.0	179.4	183.2	186.2	187.0	
48	187.9	190.1	192.2	192.7	193.2	193.9	194.6	195.4	
72	196.2	194.7	193.2	191.7	190.2	190.3	190.4	189.8	
96	189.2	190.8	192.4	192.7	193.1	194.4	195.7	195.1	
120	194.6	194.4	194.3	193.4	192.5	192.0	191.7	192.0	
144	192.4	191.6	190.7	189.4	188.2	187.1	186.0	187.1	
168	188.3	188.6	188.8	187.8	186.8	185.6	184.5	183.6	
192	182.7	181.6	180.5	178.2	175.9	176.0	176.2	176.9	
216	177.7	177.7	177.8	177.8	177.9	178.4	178.9	178.7	
240	178.5	178.0	177.5	178.2	179.0	178.9	178.8	179.5	
264	180.3	181.6	183.0	182.8	182.6	179.2	176.2	176.0	
288	175.8	175.0	174.0	172.8	171.7	170.5	169.0	168.0	
312	167.1	166.5	165.9	165.9	165.9	165.2	164.7	164.9	
336	165.1	165.5	165.9	165.8	165.7	166.9	168.2	169.7	

DEPTH	2918.3			TILT -80			VOS 5956.13		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	175.2	176.2	177.2	177.2	177.3	177.5	177.8	179.7	
24	181.5	181.9	182.2	182.7	183.1	183.4	183.6	184.7	
48	185.8	186.3	186.7	186.9	187.0	187.0	187.0	184.6	
72	182.3	181.6	180.9	180.0	179.1	178.7	178.2	178.8	
96	179.3	180.2	181.1	182.4	183.7	186.0	188.3	188.3	
120	188.3	189.1	189.8	189.4	189.0	188.4	187.8	187.8	
144	187.8	186.9	186.1	186.2	186.3	186.5	186.8	186.2	
168	185.7	184.1	182.6	182.7	182.9	181.6	180.4	180.2	
192	180.0	179.5	179.0	179.3	179.7	178.8	177.9	177.1	
216	176.3	177.9	179.5	179.6	179.6	179.5	179.5	179.2	
240	179.0	179.0	179.0	177.8	176.6	176.5	176.3	176.3	
264	176.3	176.3	176.3	175.5	174.8	174.6	174.5	174.5	
288	174.5	175.2	176.0	176.5	177.0	176.5	175.9	175.4	
312	174.9	174.4	174.0	173.3	172.5	172.2	172.0	171.9	
336	171.7	171.5	171.4	171.6	171.8	171.9	172.0	173.6	

DEPTH	2918.3			TILT 0			VOS 5956.14		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	131.7	133.1	135.0	135.5	136.5	134.2	132.3	131.4	
24	130.8	135.2	140.3	146.1	152.8	153.8	155.2	154.4	
48	154.0	159.3	165.3	168.9	173.1	171.3	170.1	170.9	
72	172.2	173.1	174.6	177.3	180.5	182.3	184.7	184.1	
96	184.1	187.6	191.8	191.9	192.4	192.8	193.6	191.9	
120	190.7	194.6	198.9	200.8	203.2	206.4	210.3	211.1	
144	212.4	217.5	223.4	222.0	227.9	225.5	223.7	223.4	
168	223.7	225.0	227.0	226.2	226.1	222.9	220.4	221.0	
192	222.2	221.0	220.4	219.1	218.6	215.8	213.6	213.9	
216	214.8	219.4	224.3	227.5	231.5	232.6	234.4	226.7	
240	220.1	216.5	213.6	208.6	204.4	208.6	213.6	204.5	
264	196.3	184.4	174.0	166.0	159.1	151.2	144.5	143.1	
288	142.1	140.0	138.2	138.8	139.7	141.3	143.3	142.7	
312	142.4	137.0	132.3	134.4	137.0	133.8	131.1	131.1	
336	131.4	134.4	137.9	134.6	131.7	132.2	133.2	132.2	



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2928.2			TILT	0	VOS			5956.14
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	127.5	130.2	133.5	131.6	130.2	130.2	130.5	131.3	
24	132.6	135.3	138.2	143.5	149.6	152.1	155.2	154.4	
48	154.0	158.8	164.4	167.6	173.1	171.3	170.1	170.8	
72	171.9	172.7	174.0	176.5	179.6	182.0	185.0	183.4	
96	182.3	187.3	192.1	191.3	191.0	191.4	192.4	191.6	
120	191.2	192.9	195.1	195.0	195.4	197.9	201.1	200.2	
144	199.9	202.3	205.2	211.7	219.2	219.7	220.7	217.9	
168	215.7	217.9	220.7	221.0	221.9	220.3	219.2	217.9	
192	217.2	215.7	214.8	213.6	213.0	212.8	213.3	213.4	
216	214.2	218.8	224.3	229.9	234.6	234.5	235.0	227.7	
240	221.6	218.8	216.6	211.4	207.0	204.2	202.0	201.8	
264	202.3	188.0	177.3	168.2	162.1	156.5	151.6	147.2	
288	143.6	140.5	137.9	135.9	135.6	134.6	134.1	134.9	
312	136.2	133.5	131.4	132.8	134.7	132.2	130.2	130.2	
336	130.5	131.9	133.8	131.6	129.9	131.5	133.5	130.2	

DEPTH	2938.1			TILT	0	VOS			5956.14
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	125.7	125.9	126.0	125.8	125.4	126.0	126.9	127.4	
24	131.7	135.5	140.0	144.7	150.2	152.6	155.5	154.9	
48	154.6	157.9	161.8	164.5	167.7	168.2	169.2	169.9	
72	171.0	171.5	172.5	174.9	177.8	181.1	185.0	186.1	
96	187.7	189.6	192.1	191.3	191.0	190.7	191.0	190.2	
120	190.1	187.1	184.7	183.4	182.6	186.1	190.4	188.3	
144	186.8	191.4	196.9	203.4	208.2	207.9	208.2	209.3	
168	210.9	213.1	216.0	214.9	214.5	212.7	211.5	207.7	
192	204.6	206.6	209.1	207.2	205.8	207.2	209.1	212.1	
216	215.7	221.6	227.9	231.8	236.5	234.5	233.2	226.8	
240	221.3	220.6	220.4	214.1	208.8	207.5	206.7	201.0	
264	196.0	188.1	178.7	170.0	159.7	158.9	158.5	154.0	
288	149.0	144.9	141.5	139.2	136.2	131.1	126.7	126.1	
312	126.3	125.3	124.5	124.7	125.1	122.7	120.7	123.3	
336	126.3	127.8	132.0	127.1	123.3	124.9	126.9	126.2	

DEPTH	2948.1			TILT	0	VOS			5956.61
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	121.9	120.2	118.9	118.1	117.7	118.2	119.1	123.8	
24	129.3	135.1	141.8	146.3	152.8	153.2	154.0	155.2	
48	156.9	161.1	165.5	165.6	166.2	168.2	170.7	170.0	
72	169.8	170.6	171.9	174.6	177.9	180.8	184.4	184.9	
96	185.9	188.6	191.9	190.5	189.8	189.2	189.2	189.2	
120	189.8	181.7	178.2	177.9	178.2	177.3	177.0	181.9	
144	187.7	189.3	191.6	188.7	196.0	197.7	199.9	199.7	
168	202.9	201.0	199.6	199.6	200.2	197.1	194.5	195.2	
192	196.3	196.4	196.9	199.9	202.0	206.2	211.2	214.0	
216	217.5	223.1	228.8	233.0	238.0	233.3	229.4	227.4	
240	226.0	222.7	220.2	215.1	210.9	209.7	209.1	203.0	
264	197.8	189.7	182.6	175.2	166.5	164.4	162.7	160.1	
288	156.7	151.8	147.5	145.5	143.5	139.4	135.9	132.0	
312	127.8	126.9	126.3	124.4	122.8	124.1	125.7	125.3	
336	125.1	125.7	126.6	124.7	123.1	122.6	122.5	122.0	



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2958.1		TILT		0		VOS		5956.69
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	119.2	116.8	114.1	115.1	116.5	117.7	119.5	124.3	
24	129.9	133.9	138.5	144.5	152.5	152.5	154.0	155.6	
48	157.6	160.9	164.8	164.8	165.4	167.9	171.0	169.4	
72	168.3	169.3	170.7	174.0	177.9	180.8	184.4	183.4	
96	182.9	186.5	190.7	186.5	182.9	183.7	185.0	186.1	
120	188.0	178.7	170.7	173.5	177.0	174.9	173.4	169.0	
144	165.3	168.4	172.2	179.8	188.3	184.6	181.7	185.8	
168	188.6	190.5	193.1	194.1	195.7	192.9	190.7	191.1	
192	192.2	193.7	195.7	198.3	201.4	206.3	211.5	214.9	
216	219.0	223.0	227.9	234.0	240.2	237.1	234.7	230.7	
240	227.3	222.9	219.3	215.8	213.0	212.9	213.3	206.1	
264	198.7	196.4	194.8	184.2	174.9	172.4	170.4	168.4	
288	166.8	163.2	160.0	155.2	151.1	145.8	140.6	138.9	
312	137.7	136.0	134.7	132.8	130.8	130.0	129.6	129.1	
336	129.0	128.1	127.5	125.5	124.0	123.0	122.5	121.0	

DEPTH	2968.0		TILT		0		VOS		5957.22
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	125.0	122.2	119.8	119.2	118.9	119.9	121.3	123.6	
24	126.3	131.4	137.6	144.2	152.0	152.3	153.2	156.7	
48	161.2	162.7	164.8	163.8	163.3	166.3	169.8	168.4	
72	167.5	169.4	171.9	175.3	179.4	180.5	182.0	181.9	
96	182.3	183.9	185.9	183.6	181.8	181.7	182.0	180.1	
120	178.8	173.8	169.5	170.3	171.6	172.4	173.7	167.9	
144	163.9	166.2	169.1	175.3	182.3	179.1	176.4	181.9	
168	188.3	187.6	187.4	190.7	194.6	190.7	191.0	190.9	
192	191.3	192.9	195.2	199.8	205.3	209.5	214.5	217.9	
216	222.6	227.2	232.7	236.7	241.6	237.5	234.2	229.0	
240	224.6	221.6	219.3	216.9	215.1	214.2	213.9	209.2	
264	205.3	202.6	200.5	190.8	181.8	178.2	175.2	173.0	
288	171.3	169.9	167.9	163.3	159.4	157.7	154.7	150.0	
312	145.7	141.9	138.6	137.9	137.0	134.3	132.0	131.7	
336	131.7	129.4	127.5	126.0	124.9	124.1	123.7	124.2	

DEPTH	2978.3		TILT		0		VOS		5957.22
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	130.2	129.6	129.4	128.0	126.9	126.5	126.4	126.9	
24	127.8	133.6	140.3	145.5	151.4	152.0	153.2	155.2	
48	158.5	159.8	163.3	162.5	162.1	165.5	169.5	167.8	
72	166.6	168.1	170.1	172.9	176.1	178.4	181.2	181.9	
96	183.2	182.8	182.9	182.2	182.0	180.1	178.8	176.6	
120	175.0	171.9	169.4	169.0	168.9	168.9	169.2	162.7	
144	155.5	159.6	163.6	171.2	180.0	178.4	177.3	183.2	
168	190.1	187.4	185.3	188.6	192.5	191.9	191.9	191.9	
192	192.5	194.3	196.3	200.3	205.0	208.8	213.3	218.7	
216	224.7	227.4	230.9	235.8	241.6	239.8	238.6	234.4	
240	230.9	224.6	219.9	218.1	216.9	215.9	215.4	210.6	
264	206.5	203.8	201.1	193.1	186.2	180.8	176.7	179.1	
288	182.0	178.3	175.3	170.9	166.3	161.6	157.6	155.0	
312	152.9	148.4	144.5	143.8	143.4	141.9	140.8	139.8	
336	139.3	137.6	136.5	135.7	135.4	133.6	132.3	131.1	



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	2988.6			TILT	0			VOS	5957.78	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	140.7	137.6	135.0	135.8	137.1	138.9	142.1	141.8		
24	142.7	142.0	141.6	146.4	152.0	152.4	153.2	154.0		
48	155.3	158.8	163.0	163.1	163.6	166.3	169.6	167.5		
72	166.0	167.5	169.6	172.2	175.5	178.6	182.2	182.6		
96	183.6	182.7	182.4	180.6	179.4	178.2	177.1	176.7		
120	176.8	174.5	172.3	171.1	170.4	169.3	168.7	162.6		
144	157.3	160.2	163.6	170.9	179.4	175.5	172.2	179.1		
168	187.1	182.9	179.4	183.1	187.4	187.5	188.0	189.8		
192	192.2	193.4	195.2	200.1	205.9	210.1	215.1	218.1		
216	221.7	227.8	234.5	238.6	243.4	240.8	239.0	233.5		
240	229.7	224.4	219.9	219.3	219.3	217.5	216.3	213.8		
264	211.9	189.7	172.2	174.3	187.4	185.1	183.3	183.2		
288	183.6	183.3	183.6	180.0	177.2	171.8	167.2	165.5		
312	161.8	160.7	157.9	157.6	157.5	153.8	150.5	150.1		
336	150.2	146.3	143.0	144.0	145.4	144.0	142.1	141.2		

DEPTH	2998.1			TILT	0			VOS	5957.78	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	151.4	149.0	145.4	145.1	145.1	149.1	147.8	147.6		
24	147.8	148.1	148.7	149.4	150.5	152.4	152.9	155.0		
48	157.6	160.5	163.9	163.5	163.6	165.6	168.1	167.5		
72	167.5	167.7	168.4	171.1	174.3	177.9	182.0	183.2		
96	185.0	183.5	182.5	180.4	179.0	177.8	177.1	175.3		
120	173.9	173.7	173.9	172.4	171.3	169.5	168.1	161.7		
144	156.1	159.8	164.2	169.4	175.6	173.1	171.1	176.7		
168	183.3	180.7	178.5	181.5	185.0	183.4	182.2	184.7		
192	187.7	190.5	194.0	199.3	205.0	209.4	214.2	219.2		
216	225.0	228.4	233.6	236.9	241.0	240.3	240.2	235.7		
240	232.1	225.6	219.6	219.7	220.5	218.7	217.5	214.6		
264	212.7	189.8	173.7	159.9	148.4	168.0	190.4	188.6		
288	187.4	186.9	186.8	182.5	178.8	177.6	177.0	173.1		
312	169.9	168.3	167.2	165.0	164.2	161.4	160.9	158.7		
336	157.0	155.0	153.5	154.1	154.5	153.3	152.0	151.5		

DEPTH	3003.2			TILT	0			VOS	5958.30	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	154.7	153.3	151.1	151.5	152.3	151.2	153.8	154.3		
24	155.9	154.3	153.2	152.1	152.3	152.2	153.2	155.1		
48	155.0	158.7	163.0	166.0	169.6	169.5	170.3	170.3		
72	170.6	172.7	175.2	175.6	176.4	178.7	181.5	183.5		
96	185.7	184.6	184.1	182.8	181.7	179.1	177.0	174.5		
120	172.5	173.2	174.3	172.7	171.7	169.2	167.5	161.6		
144	156.8	160.7	167.5	169.8	174.4	171.6	169.3	174.3		
168	180.0	179.3	179.1	180.9	183.3	182.7	182.7	185.8		
192	189.2	193.0	197.0	202.0	208.0	211.5	215.7	220.8		
216	226.8	230.8	236.0	238.4	242.0	239.8	238.4	234.7		
240	231.1	225.2	219.9	220.4	221.4	219.3	217.8	216.5		
264	213.1	187.4	158.0	152.4	147.5	143.6	192.5	190.7		
288	189.4	189.1	189.3	186.7	184.6	183.1	181.8	177.9		
312	174.3	172.1	169.6	168.8	166.9	163.8	161.2	161.7		
336	162.7	162.4	162.5	160.3	158.6	157.2	156.5	155.5		



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	3008.4			TILT	0	VOS			5958.30
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	157.7	158.9	155.6	155.1	155.0	155.6	159.7	159.4	
24	160.6	157.5	155.0	155.9	154.1	153.6	153.8	154.6	
48	156.1	159.1	162.7	166.3	170.5	170.8	171.7	171.4	
72	171.7	173.5	175.8	177.4	179.4	181.6	184.5	185.4	
96	186.8	184.8	183.3	181.7	180.6	178.7	177.3	174.8	
120	172.8	173.2	174.0	171.6	169.3	165.5	162.4	161.9	
144	161.8	162.3	163.3	168.2	173.7	172.2	171.1	175.3	
168	180.3	179.3	178.8	181.3	184.5	184.5	185.0	187.8	
192	191.3	195.9	201.1	204.5	208.6	213.8	219.9	224.0	
216	228.9	233.3	238.7	241.0	244.0	242.2	241.1	233.9	
240	227.7	223.6	220.2	221.1	222.6	222.0	222.0	219.3	
264	219.0	177.9	158.9	150.0	142.5	139.7	137.4	133.8	
288	191.3	191.5	192.2	189.8	188.0	184.8	182.1	181.4	
312	180.6	177.2	175.8	172.8	170.8	169.2	168.1	167.4	
336	167.2	166.7	166.6	164.4	162.7	161.3	160.3	158.9	

DEPTH	3013.3			TILT	0	VOS			5958.30
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	163.9	161.1	163.6	160.2	157.4	161.8	162.1	163.2	
24	165.7	164.3	163.3	162.1	162.1	157.9	154.4	155.5	
48	157.4	163.3	169.6	169.9	170.8	173.9	177.0	175.6	
72	174.6	175.9	177.6	179.8	182.4	183.8	185.7	185.8	
96	186.6	184.6	183.3	181.7	180.6	180.0	180.0	179.1	
120	174.6	174.7	175.2	173.3	172.0	168.7	165.7	162.2	
144	159.1	161.3	163.9	168.2	173.5	170.8	168.7	174.2	
168	180.6	179.7	179.4	180.8	182.7	183.9	185.7	188.9	
192	192.8	197.3	202.6	205.6	209.2	215.0	221.7	224.9	
216	228.9	233.1	238.1	240.2	242.9	243.3	244.3	237.4	
240	230.9	227.7	223.2	223.0	223.5	221.8	220.8	189.6	
264	166.6	160.1	154.4	147.0	140.7	135.1	130.2	125.8	
288	121.9	196.5	195.5	193.0	191.0	188.5	186.6	184.5	
312	182.1	180.6	178.8	176.7	173.7	172.6	170.5	170.5	
336	171.1	169.0	167.5	166.8	166.6	165.2	163.9	163.6	

DEPTH	3018.2			TILT	0	VOS			5958.48
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	166.9	167.7	164.8	164.3	164.2	166.2	165.4	167.0	
24	169.3	168.0	167.2	168.0	169.0	161.6	155.3	159.9	
48	160.3	165.5	173.4	172.8	174.9	177.5	178.5	177.5	
72	177.0	178.5	180.6	181.4	182.7	185.3	188.4	191.6	
96	195.5	199.7	204.6	199.4	194.9	191.8	189.2	199.8	
120	208.6	207.9	207.8	199.9	193.1	178.0	166.6	163.9	
144	161.2	164.3	166.3	169.3	172.9	170.8	169.3	174.5	
168	180.6	179.9	179.7	181.4	183.6	185.5	188.0	191.7	
192	196.1	199.5	203.5	206.7	210.7	216.0	222.3	224.3	
216	230.1	233.8	238.4	240.6	243.5	244.5	246.1	239.7	
240	233.9	229.3	225.5	225.2	225.5	212.8	203.6	176.5	
264	161.5	148.3	137.4	134.0	131.1	129.2	127.6	123.6	
288	119.1	115.9	113.1	108.5	105.7	106.4	107.4	189.1	
312	188.3	186.1	184.5	181.4	180.6	178.4	176.4	174.5	
336	173.1	173.2	173.7	172.2	171.1	170.8	169.9	168.1	



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	3023.9			TILT	0			VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	173.2	171.0	172.9	171.9	171.4	168.4	169.0	172.1		
24	177.0	177.1	177.6	175.0	174.1	168.4	163.6	165.3		
48	160.1	166.0	172.9	176.7	181.2	180.5	180.3	180.5		
72	181.2	185.9	191.3	193.0	195.2	192.8	191.0	193.9		
96	197.6	201.6	206.4	206.9	208.0	203.5	199.2	212.4		
120	221.4	227.8	235.1	226.7	219.3	204.4	191.9	177.6		
144	163.6	169.2	172.5	172.6	173.2	171.3	169.9	172.8		
168	176.7	179.3	182.4	183.5	185.1	186.6	188.7	192.4		
192	196.1	200.7	205.9	208.0	210.7	214.6	219.0	223.8		
216	229.5	234.0	239.3	242.8	247.1	246.6	246.8	241.1		
240	236.3	232.4	229.2	226.8	225.0	201.9	183.6	172.1		
264	161.2	147.1	137.1	124.2	112.7	116.0	118.6	114.4		
288	112.1	109.2	106.7	103.4	100.5	100.5	100.8	93.8		
312	87.9	190.4	188.7	186.2	183.6	183.4	184.8	182.1		
336	180.0	178.3	177.0	178.4	180.3	176.4	173.2	172.9		

DEPTH	3028.1			TILT	0			VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	179.4	178.4	172.9	72.6	169.0	175.9	172.6	177.5		
24	180.3	178.9	177.9	179.5	179.7	173.9	169.0	170.2		
48	160.6	166.3	172.9	177.1	182.1	182.0	184.5	183.2		
72	182.4	186.5	191.3	192.8	194.9	195.4	196.4	197.0		
96	198.2	202.0	207.4	208.6	210.4	210.7	211.6	215.9		
120	221.4	228.6	236.9	227.5	219.3	211.8	207.7	205.9		
144	204.7	184.4	173.5	172.5	172.0	171.4	171.4	172.9		
168	174.9	179.7	182.4	186.6	189.2	190.5	192.5	195.0		
192	198.2	202.6	208.0	209.1	210.7	216.5	223.2	226.0		
216	229.8	234.7	240.2	242.5	245.6	245.8	246.8	241.4		
240	236.9	235.2	234.2	229.4	225.3	203.4	185.7	170.0		
264	152.9	143.2	135.0	121.2	110.3	109.8	109.7	107.1		
288	104.1	102.4	101.1	98.8	98.1	98.1	98.4	91.7		
312	86.2	85.6	85.6	189.1	80.2	184.9	76.0	75.9		
336	76.0	181.6	74.8	73.4	72.2	178.9	177.6	178.7		

DEPTH	3033.1			TILT	0			VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	76.0	72.1	68.6	66.5	64.7	180.6	182.1	185.1		
24	185.7	190.1	195.2	185.7	184.2	183.0	182.4	177.1		
48	175.5	174.0	172.9	178.2	184.5	187.4	186.0	188.2		
72	191.0	209.3	191.9	193.1	194.9	195.4	196.4	197.0		
96	198.2	201.1	204.7	213.9	224.5	216.7	210.8	222.9		
120	220.7	227.8	235.9	227.7	220.6	216.0	212.2	246.1		
144	294.1	213.8	178.8	176.3	174.4	173.5	173.2	177.8		
168	183.3	183.9	185.1	187.5	189.2	192.4	196.1	198.3		
192	201.2	204.8	209.5	210.8	212.8	218.1	224.4	228.1		
216	233.3	237.4	242.3	244.9	248.2	248.2	248.8	244.1		
240	240.2	237.0	234.5	242.3	237.8	214.0	189.5	174.0		
264	146.6	138.0	131.4	119.6	111.8	107.6	104.0	98.2		
288	95.1	94.8	94.8	93.9	93.3	89.5	86.2	83.3		
312	80.8	77.4	81.1	72.6	71.3	70.1	69.5	70.9		
336	73.9	71.4	69.4	67.1	65.1	180.1	186.0	186.1		



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	3038.6		TILT	0		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	71.3	69.5	68.0	66.7	65.6	69.4	73.6	190.9
24	195.5	195.4	195.8	194.9	187.8	192.2	197.3	182.6
48	201.5	197.6	194.3	192.5	191.3	197.8	212.2	213.2
72	214.9	219.7	226.5	228.4	231.0	234.7	239.3	240.2
96	241.7	245.2	250.3	252.3	255.7	261.9	269.1	239.9
120	217.0	224.7	233.6	226.1	219.6	219.2	217.9	304.8
144	303.1	297.2	292.4	290.3	289.0	289.5	290.9	292.8
168	295.5	296.6	298.6	299.8	301.6	243.9	199.1	200.0
192	201.5	205.1	209.5	210.6	212.2	219.8	223.8	233.0
216	232.2	238.5	245.9	248.2	251.5	265.0	280.7	278.3
240	276.6	271.5	267.3	261.8	260.2	240.3	222.2	179.9
264	140.7	122.0	108.2	106.9	105.8	98.5	92.4	86.1
288	80.5	84.9	90.3	91.4	92.7	88.3	84.7	81.9
312	79.3	72.4	66.8	68.3	70.7	67.5	64.7	66.5
336	68.6	68.8	69.2	63.9	59.9	67.0	77.2	73.5

DEPTH	3043.1		TILT	0		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	67.8	67.2	66.5	62.9	60.5	67.1	73.8	192.5
24	72.1	199.3	78.5	73.7	69.8	67.1	64.8	67.6
48	70.8	201.1	72.5	206.1	84.5	200.8	212.0	212.8
72	214.3	219.0	224.6	226.5	229.0	231.8	235.3	237.6
96	240.7	243.8	247.7	252.2	258.3	262.6	267.7	272.1
120	277.4	282.5	288.7	295.9	304.4	306.7	312.4	307.4
144	303.4	298.4	294.4	292.1	290.6	290.4	291.0	292.5
168	294.7	296.0	298.0	299.0	301.4	302.3	304.1	298.7
192	204.3	207.6	211.6	231.4	213.6	265.3	224.0	268.3
216	289.3	266.2	244.3	251.6	253.0	267.1	283.7	278.6
240	274.4	271.6	269.7	269.2	268.7	257.8	248.4	180.3
264	135.9	118.4	104.8	105.6	106.4	97.2	89.5	83.8
288	79.1	81.7	84.5	84.2	84.1	74.6	65.1	72.1
312	77.1	71.4	66.1	67.2	68.6	66.0	63.8	64.5
336	65.5	67.1	68.5	62.2	56.8	63.1	70.8	69.3

DEPTH	3048.1		TILT	0		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	68.5	64.4	61.0	58.9	57.0	56.0	50.8	62.5
24	70.9	69.5	67.2	67.2	67.2	65.6	64.3	66.7
48	69.7	67.8	66.1	70.1	74.8	203.0	214.3	215.3
72	217.0	224.0	229.0	229.8	231.3	233.6	236.6	241.5
96	247.3	247.7	248.7	253.1	253.7	259.0	265.3	271.1
120	276.7	282.2	288.4	295.3	303.4	307.8	311.1	311.8
144	313.4	307.9	303.4	298.1	293.7	291.1	289.4	289.6
168	290.7	292.6	295.4	297.2	299.4	301.0	303.4	301.5
192	300.4	306.3	313.4	310.8	309.1	305.7	304.4	298.1
216	295.7	260.0	208.9	214.2	220.3	273.3	199.9	282.8
240	282.0	281.1	281.0	275.7	275.4	265.5	260.7	161.0
264	134.2	116.4	102.8	105.5	108.5	95.5	85.5	80.4
288	76.1	78.7	80.5	82.0	83.8	74.6	67.5	68.8
312	71.4	67.0	63.8	63.9	64.1	61.8	60.1	61.5
336	63.5	64.7	66.2	57.9	51.1	51.7	52.1	59.1



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	3048.1		TILT	-3		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	66.8	61.0	56.2	56.2	56.3	51.3	46.6	55.8
24	69.5	62.9	57.5	59.3	61.3	61.9	62.8	66.0
48	70.0	65.4	61.6	68.0	75.9	112.3	222.8	229.5
72	241.4	241.4	243.6	246.2	249.5	249.6	250.4	255.2
96	260.9	264.9	269.9	273.4	280.3	281.7	284.0	284.8
120	287.7	292.2	297.5	303.8	311.3	311.1	311.5	308.4
144	306.1	299.9	294.7	292.1	290.2	290.8	292.3	294.4
168	297.3	297.9	299.2	299.9	301.6	301.2	301.5	304.5
192	308.4	314.9	322.6	319.4	317.1	311.6	306.9	243.6
216	193.4	200.4	201.5	190.6	181.1	183.0	185.2	195.8
240	208.2	205.5	203.3	202.4	202.0	193.5	186.1	152.7
264	129.0	115.6	105.1	105.9	107.0	96.4	87.9	81.6
288	76.0	76.4	77.0	76.6	76.1	71.4	67.5	63.9
312	60.2	62.1	63.4	62.4	62.5	60.6	59.8	60.6
336	61.6	62.9	64.3	56.7	50.8	50.7	50.7	57.6

DEPTH	3048.1		TILT	-6		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	65.7	60.7	56.6	56.5	56.6	51.0	46.6	54.2
24	64.6	61.8	59.3	60.1	61.1	61.3	61.6	65.7
48	70.6	65.7	61.6	66.2	72.2	111.4	82.4	233.8
72	242.3	244.9	248.2	249.2	250.9	253.9	257.7	261.8
96	266.7	270.8	275.8	278.7	282.1	285.6	289.8	292.4
120	296.2	300.0	304.8	308.8	313.8	311.1	311.6	308.9
144	307.0	305.5	304.8	304.4	304.8	302.3	300.7	303.7
168	307.5	306.6	306.6	310.5	312.5	313.6	315.7	319.2
192	323.8	323.4	323.8	320.8	318.8	319.1	321.1	240.2
216	192.5	189.4	186.5	178.8	172.1	174.8	178.0	181.9
240	186.6	189.3	195.2	183.6	176.2	179.5	183.4	146.2
264	121.8	114.7	108.7	93.6	82.4	87.3	91.9	81.1
288	77.4	76.9	76.5	75.3	73.8	70.0	66.1	61.2
312	57.1	60.0	63.4	57.9	53.4	55.7	58.4	57.7
336	57.1	59.7	62.9	56.8	52.1	51.6	51.3	57.5

DEPTH	3048.1		TILT	-9		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	63.0	57.8	53.4	53.1	53.0	49.6	46.6	53.4
24	62.5	60.9	59.4	58.3	56.6	59.3	61.8	65.9
48	70.8	65.9	61.6	66.8	72.5	77.0	82.4	123.8
72	245.5	244.6	250.0	253.0	256.8	257.9	259.0	261.6
96	264.9	267.9	273.4	276.3	280.8	286.2	292.6	295.7
120	299.8	301.9	304.8	306.8	309.8	307.6	313.8	310.9
144	308.9	306.9	305.7	303.9	303.0	303.0	303.9	305.7
168	308.4	308.0	308.4	305.0	310.7	311.2	312.5	304.7
192	298.0	296.5	294.4	273.8	256.3	275.0	293.1	215.9
216	182.1	176.0	167.1	168.3	169.8	169.5	169.5	167.6
240	166.1	158.1	151.3	155.4	159.9	165.0	171.2	143.2
264	123.4	113.7	105.7	92.8	82.9	78.5	74.7	76.6
288	78.3	77.6	77.0	66.9	59.3	61.8	62.5	59.9
312	57.5	59.4	61.6	56.9	53.0	55.3	58.0	56.0
336	54.3	58.1	62.5	55.1	49.4	49.6	49.9	55.7



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	3048.1		TILT	-12		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	62.0	57.3	53.4	53.8	54.3	50.1	46.6	48.9
24	50.8	53.3	58.9	56.0	53.3	57.5	62.5	67.2
48	72.9	67.3	62.6	67.5	73.4	77.8	83.3	119.5
72	218.2	199.4	184.1	237.9	240.0	242.0	249.4	254.4
96	257.7	261.0	264.9	265.2	263.6	270.4	278.5	278.3
120	279.0	275.8	273.5	281.7	291.2	291.5	292.6	293.7
144	295.7	295.1	295.3	296.9	299.3	301.6	304.8	298.4
168	293.0	287.6	283.0	283.1	284.0	276.9	271.0	249.3
192	236.1	235.3	235.2	201.7	179.8	179.5	179.8	179.5
216	179.8	169.3	160.3	162.3	164.8	157.1	150.4	150.4
240	150.8	143.7	137.7	137.9	138.6	143.4	149.4	142.4
264	136.3	113.8	100.0	90.6	83.0	78.4	74.5	76.2
288	78.2	75.2	72.7	65.8	60.2	61.5	62.9	60.0
312	56.6	59.4	61.6	56.6	52.5	54.9	58.0	55.7
336	54.3	57.5	61.3	54.5	49.0	49.1	49.4	55.0

DEPTH	3048.1		TILT	-15		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	58.9	55.7	53.0	52.9	53.0	50.0	47.1	47.1
24	47.2	52.5	59.6	55.9	52.8	57.5	63.1	68.4
48	74.6	68.6	63.8	68.5	74.3	79.3	84.9	108.3
72	147.4	144.8	142.8	142.5	142.6	170.2	218.7	184.6
96	164.1	181.9	236.7	240.0	243.9	238.7	234.4	244.6
120	254.5	261.6	269.9	268.2	267.2	272.0	277.6	278.1
144	279.4	279.3	279.9	281.1	283.0	281.3	280.3	276.4
168	273.2	272.1	271.7	267.6	264.3	243.7	229.2	227.5
192	226.4	209.5	195.4	185.3	180.2	169.3	160.0	162.4
216	165.3	159.9	156.2	151.5	148.1	145.8	144.0	141.0
240	137.0	132.0	127.6	129.2	131.3	137.2	144.0	140.5
264	137.4	113.4	96.9	89.4	83.2	80.1	77.4	78.0
288	78.8	76.1	73.8	66.7	61.1	62.2	63.4	59.7
312	56.6	57.8	58.9	53.8	49.4	52.1	55.3	51.6
336	48.5	53.7	60.9	54.7	49.8	49.5	49.4	53.8

DEPTH	3048.1		TILT	-18		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	59.8	55.2	51.2	52.0	53.0	50.8	48.9	48.1
24	47.6	53.3	60.7	56.3	52.6	57.9	64.6	69.1
48	74.1	69.2	68.4	69.8	76.1	82.5	87.9	109.7
72	136.3	142.0	148.5	143.0	138.1	138.6	139.5	147.0
96	151.9	162.8	175.0	177.8	181.2	193.2	206.9	220.3
120	235.8	244.3	254.2	255.5	257.5	255.7	254.6	253.4
144	252.7	257.9	264.0	260.6	257.7	260.1	263.1	260.5
168	258.6	250.6	243.7	239.7	236.4	224.6	215.1	211.0
192	207.5	191.1	177.5	168.0	160.3	156.4	153.1	151.5
216	150.4	148.4	145.8	141.7	138.4	137.3	136.6	130.1
240	123.0	120.8	119.0	119.7	120.7	123.9	127.7	133.0
264	139.0	106.0	85.6	84.2	82.9	79.2	76.1	74.1
288	72.5	72.4	72.5	66.8	61.6	62.4	63.4	60.1
312	57.1	57.9	58.9	54.0	49.4	51.3	53.4	50.5
336	48.0	53.1	60.2	54.8	50.1	49.9	49.9	54.4



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	3048.1		TILT	-21		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	60.2	55.6	51.8	51.6	51.5	50.6	49.8	48.9
24	48.3	53.3	59.9	56.6	53.9	58.0	62.7	67.0
48	71.9	70.3	68.5	72.2	76.3	83.8	93.6	110.0
72	133.8	139.2	147.8	147.3	147.2	141.1	136.5	141.0
96	146.3	154.6	165.4	165.4	164.8	177.3	191.7	202.2
120	214.5	213.9	213.9	219.3	224.1	230.4	237.8	237.5
144	237.8	230.6	224.4	221.8	217.8	220.5	222.0	225.6
168	230.0	230.6	231.8	220.7	214.2	207.1	200.9	192.4
192	183.7	156.0	137.2	139.3	141.9	142.7	143.8	140.5
216	137.4	132.2	127.7	126.6	126.0	102.0	88.7	89.2
240	89.9	110.4	111.4	109.0	107.0	107.9	109.0	115.1
264	122.2	100.3	85.2	82.7	80.7	79.4	78.3	75.6
288	73.3	71.0	69.1	66.6	64.4	63.8	63.5	60.7
312	58.2	58.0	57.9	53.8	50.4	51.2	52.1	49.6
336	47.4	52.9	59.6	54.7	50.5	50.2	50.1	54.6

DEPTH	3048.1		TILT	-24		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	60.7	56.3	52.7	52.2	51.8	49.5	47.4	48.1
24	48.9	54.0	61.1	57.0	53.6	57.1	61.0	63.6
48	65.8	68.2	70.9	74.0	77.7	83.5	90.6	104.1
72	124.8	129.2	134.5	135.9	137.8	136.2	134.9	138.0
96	141.5	148.7	157.5	158.5	161.2	165.1	169.5	181.9
120	195.1	198.7	203.1	201.5	200.5	206.4	213.9	211.0
144	208.6	213.4	219.0	217.7	216.9	217.7	219.0	213.3
168	208.3	185.9	169.7	167.3	165.3	171.5	178.9	153.4
192	136.5	136.3	132.3	128.6	122.6	129.2	135.3	129.7
216	122.2	113.0	105.7	92.0	81.6	80.9	80.4	80.6
240	80.7	86.9	95.3	97.3	99.5	105.2	111.7	116.6
264	122.2	99.0	83.3	80.0	76.9	75.0	73.3	72.9
288	72.7	70.5	69.1	65.7	62.9	61.1	59.9	59.1
312	58.4	57.6	56.9	53.9	50.9	52.0	53.3	50.6
336	48.3	53.1	58.1	54.7	51.2	50.6	50.2	54.8

DEPTH	3048.1		TILT	-27		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	59.0	56.1	52.8	53.6	54.5	51.1	48.3	49.1
24	50.1	55.2	62.0	58.0	54.5	58.2	62.6	60.8
48	59.3	64.5	70.9	75.6	81.0	86.5	93.0	100.5
72	112.0	118.5	124.5	125.6	126.9	129.3	132.0	131.3
96	131.0	134.0	86.5	146.8	152.1	143.3	132.9	138.1
120	141.2	172.2	169.8	174.7	180.3	181.0	182.0	184.1
144	186.5	193.8	191.9	196.4	193.8	188.1	183.2	178.4
168	174.3	166.1	158.5	156.2	154.3	149.4	145.1	135.3
192	128.4	127.9	130.5	118.1	111.1	109.4	107.9	93.1
216	91.8	88.5	85.5	81.4	77.8	77.5	76.6	76.2
240	75.7	79.3	83.4	89.5	96.8	100.6	106.4	105.7
264	105.2	90.3	78.7	76.9	75.7	72.6	70.3	69.8
288	69.4	67.4	66.1	63.8	62.3	59.8	57.8	58.0
312	58.4	57.3	56.3	53.7	51.2	52.9	54.8	51.6
336	48.9	52.4	56.0	54.1	52.1	52.2	52.4	55.8



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	3048.1		TILT	-30		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	58.4	54.9	51.8	53.3	54.5	51.8	49.5	50.0
24	50.8	56.4	63.5	59.4	56.0	59.1	63.2	60.9
48	59.0	65.0	72.4	76.8	81.9	88.0	95.3	99.8
72	104.9	111.1	118.9	118.2	117.7	117.4	117.4	120.0
96	92.7	88.1	84.0	103.0	135.7	131.1	127.6	127.8
120	128.2	140.8	156.1	158.4	161.2	161.8	162.7	162.8
144	163.3	166.6	170.3	172.2	174.4	168.4	163.0	161.9
168	161.2	151.3	140.9	142.1	143.6	127.6	118.7	108.2
192	98.9	96.4	94.1	91.4	88.8	83.9	79.6	78.1
216	76.6	76.1	75.7	75.3	75.1	74.4	73.9	74.1
240	74.5	76.4	78.7	80.8	83.1	88.9	95.6	99.5
264	104.0	86.1	73.0	70.3	67.9	67.4	67.0	65.8
288	64.7	62.6	60.8	60.3	59.3	58.0	56.9	56.2
312	55.7	55.3	54.8	53.5	52.4	52.8	53.3	51.7
336	49.5	52.1	54.8	53.3	52.1	52.2	52.4	55.2

DEPTH	3048.1		TILT	-33		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	57.8	54.6	51.8	54.0	56.3	52.7	49.8	51.0
24	52.4	58.1	65.2	61.1	57.5	60.7	64.4	62.5
48	60.8	67.0	74.8	79.8	86.1	88.6	91.5	93.1
72	95.0	101.4	108.5	105.7	103.4	103.1	103.1	95.3
96	88.8	85.5	81.0	85.5	91.8	95.8	100.4	124.8
120	124.8	134.0	145.3	147.7	150.4	152.0	153.9	150.3
144	147.2	148.3	149.9	150.0	150.5	144.4	139.4	134.2
168	129.6	124.2	109.6	108.0	106.7	100.4	93.3	90.1
192	87.3	81.8	77.1	77.3	77.7	75.5	73.5	73.9
216	74.6	71.9	69.4	70.1	70.9	71.0	71.2	71.4
240	71.8	72.6	73.6	75.7	78.1	81.0	84.3	90.0
264	96.8	83.1	73.0	70.1	67.6	67.0	66.4	64.9
288	63.8	62.0	60.5	59.4	58.4	57.2	56.0	54.9
312	53.9	53.9	53.9	53.4	53.0	52.5	52.1	51.5
336	50.9	52.1	53.3	53.4	53.6	54.2	54.8	56.2

DEPTH	3048.1		TILT	-36		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	57.2	55.3	53.6	55.3	57.2	54.0	51.2	52.7
24	54.2	58.9	64.7	61.1	58.1	62.1	66.7	64.7
48	62.9	68.6	75.4	78.8	83.4	84.7	86.1	89.7
72	94.1	96.7	99.5	93.1	86.1	86.6	87.3	89.6
96	91.8	84.9	79.3	81.4	83.7	90.7	98.0	107.0
120	122.8	127.2	133.5	133.9	134.7	136.6	138.8	136.7
144	135.0	131.0	126.6	123.8	121.3	119.9	118.9	114.0
168	110.8	100.6	92.4	92.0	91.8	86.1	81.0	78.0
192	74.8	70.9	66.4	68.0	69.7	68.0	69.4	69.7
216	70.0	68.7	66.7	66.2	65.8	66.5	67.3	69.0
240	70.9	70.8	70.9	72.3	73.9	76.0	78.5	80.8
264	83.3	75.2	69.6	68.6	67.6	65.9	64.4	63.4
288	62.5	61.0	59.6	59.1	58.7	56.6	54.8	54.0
312	53.3	52.9	52.4	52.4	52.4	51.8	51.2	51.6
336	52.1	52.2	52.4	52.2	52.1	53.3	54.5	55.8



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	3048.1		TILT	-39		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	56.9	55.7	54.7	55.9	57.3	54.6	52.2	54.4
24	56.9	60.0	63.5	61.6	60.0	65.1	71.3	67.5
48	64.9	70.0	77.2	79.4	82.0	82.7	83.7	84.6
72	85.8	89.0	92.6	87.6	83.7	83.6	83.7	84.7
96	86.3	81.0	76.7	79.7	83.2	87.0	92.5	96.3
120	101.0	109.2	119.1	121.2	123.5	125.4	128.1	126.8
144	125.6	120.5	116.4	113.8	111.5	98.0	83.2	84.6
168	85.8	84.5	83.4	82.5	81.8	77.6	73.9	73.2
192	72.7	67.8	63.7	62.1	60.7	63.4	66.5	66.1
216	65.8	65.6	65.4	65.6	65.8	66.3	66.9	67.1
240	67.4	68.3	69.3	68.0	66.9	68.0	69.3	69.8
264	70.5	69.3	68.2	67.3	66.5	64.5	62.7	62.0
288	61.5	60.4	59.3	58.2	57.2	56.0	55.0	54.3
312	53.8	52.7	51.7	51.8	51.9	51.5	51.1	51.4
336	51.7	51.8	51.9	51.8	51.7	52.8	53.9	55.3

DEPTH	3048.1		TILT	-42		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	55.8	55.5	55.3	55.6	55.9	54.6	53.5	55.8
24	58.6	61.7	65.4	63.8	62.4	66.2	70.6	68.3
48	66.2	71.0	77.9	79.2	80.7	80.4	80.3	80.5
72	80.9	83.1	85.7	81.0	76.8	77.1	77.5	75.5
96	73.7	75.8	78.1	80.2	82.6	84.0	85.7	88.2
120	90.9	92.6	94.7	96.6	98.8	101.7	104.9	104.7
144	104.7	101.7	99.0	95.4	91.7	85.4	79.9	78.9
168	77.9	77.2	76.5	74.7	73.1	72.4	71.8	70.7
192	69.6	66.9	64.5	62.4	60.6	60.5	60.6	61.6
216	62.6	62.4	62.3	62.2	62.3	63.1	64.1	63.7
240	63.4	62.7	62.1	63.7	65.5	65.4	65.4	66.3
264	67.4	68.6	69.9	67.3	65.1	62.8	60.7	60.4
288	60.1	59.5	58.7	57.6	56.7	55.1	53.6	53.3
312	53.1	52.6	52.1	51.4	50.8	50.2	49.6	50.2
336	50.8	50.9	51.0	50.7	50.5	51.6	52.8	54.2

DEPTH	3048.1		TILT	-45		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	55.5	55.5	55.6	56.0	56.5	55.9	55.3	56.8
24	58.3	58.5	58.9	61.6	64.8	66.7	69.6	70.1
48	70.8	73.7	76.8	77.5	78.4	78.3	78.4	79.0
72	79.8	78.0	76.1	75.6	75.3	75.7	76.2	74.9
96	73.7	74.5	75.5	77.7	80.3	82.2	84.3	84.0
120	83.8	82.1	80.6	80.7	81.0	84.0	87.2	85.0
144	83.0	78.9	73.9	72.7	71.6	71.0	70.5	72.0
168	73.7	73.0	72.4	71.6	71.0	69.6	68.5	67.3
192	66.3	64.7	63.2	62.1	61.2	60.7	60.3	60.1
216	60.0	60.8	61.7	61.9	62.1	61.8	61.5	61.5
240	61.7	61.3	61.0	60.5	60.1	59.9	59.8	61.0
264	62.4	64.5	66.6	66.4	66.3	63.6	61.2	60.4
288	59.8	59.0	58.3	57.1	56.2	55.0	53.9	53.3
312	52.8	52.5	52.2	51.1	50.2	50.0	49.9	49.9
336	50.0	50.1	50.2	50.1	50.0	50.8	51.7	53.5



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	3048.1		TILT	-48		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	54.5	54.8	55.2	55.9	56.7	56.2	55.8	56.9
24	58.1	58.5	59.0	61.8	64.9	67.0	69.3	70.1
48	71.0	72.8	75.1	75.6	76.1	76.9	77.8	78.3
72	79.0	78.2	77.5	75.0	72.8	72.8	73.0	72.3
96	71.7	73.5	75.6	75.9	76.4	77.3	78.2	78.3
120	78.4	77.8	77.3	76.4	75.6	75.0	74.5	75.1
144	75.8	74.5	73.4	72.1	71.0	69.3	67.7	69.0
168	70.3	70.9	71.6	70.3	69.1	67.4	65.8	64.4
192	63.1	63.1	63.2	61.5	60.0	58.7	57.6	57.5
216	57.5	58.1	58.9	58.4	58.1	57.9	57.8	57.8
240	57.8	58.0	58.3	58.8	59.3	58.8	58.3	59.4
264	60.7	63.3	66.2	65.9	65.7	61.3	57.5	57.4
288	57.3	56.7	56.2	55.7	55.3	54.5	53.8	53.3
312	53.0	52.6	52.2	51.0	49.9	49.7	49.6	49.8
336	50.0	49.8	49.6	49.5	49.6	50.2	51.0	52.6

DEPTH	3048.1		TILT	-51		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	53.9	54.6	55.3	55.4	55.6	55.9	56.2	57.1
24	58.1	58.4	58.7	60.9	63.4	64.8	66.3	68.3
48	70.5	71.7	73.0	73.8	74.7	75.2	75.8	76.8
72	77.9	74.6	71.6	66.6	62.3	63.4	64.6	64.6
96	64.6	68.1	72.0	72.6	73.3	75.3	77.6	76.2
120	75.0	75.3	75.8	74.1	72.7	72.5	72.4	72.1
144	71.9	71.3	70.8	70.7	70.6	69.3	68.0	68.5
168	69.1	68.4	67.9	67.7	67.7	65.5	63.5	62.7
192	62.0	61.7	61.5	60.8	60.1	58.5	57.0	56.7
216	56.5	57.0	57.5	57.1	56.7	57.0	57.3	57.5
240	57.8	57.7	57.6	58.3	59.0	58.5	58.1	58.0
264	57.9	59.4	61.0	58.2	55.6	56.1	56.7	55.9
288	55.2	54.9	54.7	54.4	54.2	53.7	53.3	52.7
312	52.2	51.4	50.2	50.1	50.0	49.7	49.4	49.3
336	49.3	49.1	49.0	48.9	49.0	49.6	50.4	51.8

DEPTH	3048.1		TILT	-54		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	52.8	53.6	54.4	54.6	54.8	55.6	56.4	56.7
24	57.0	58.4	60.0	61.6	63.4	64.3	65.2	65.9
48	66.6	68.9	71.4	71.5	71.6	72.7	73.9	71.6
72	69.6	64.9	60.9	60.5	60.1	58.7	57.5	59.2
96	61.0	63.6	66.5	68.8	71.4	71.6	71.9	71.6
120	71.4	70.9	70.5	70.1	69.7	69.7	69.7	69.8
144	70.0	69.8	69.7	69.1	68.6	67.8	67.1	66.7
168	66.3	65.5	64.8	62.6	60.6	60.8	61.0	60.6
192	60.3	58.9	57.6	57.4	57.2	56.0	54.8	54.1
216	53.5	55.3	57.3	56.9	56.5	56.8	57.2	57.1
240	57.0	57.1	57.3	57.8	58.4	56.8	55.3	55.1
264	55.0	53.9	52.8	52.3	51.7	51.6	51.4	52.8
288	54.2	53.9	53.6	53.8	54.1	53.5	53.0	52.5
312	52.1	51.7	51.4	50.7	50.2	49.9	49.6	49.4
336	49.3	49.1	49.0	49.1	49.3	49.2	49.3	51.0



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	3048.1		TILT	-57		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	51.4	52.7	54.1	54.0	53.9	53.9	53.9	56.2
24	59.2	59.5	60.0	61.1	62.4	62.7	63.1	64.0
48	65.1	66.9	68.9	69.1	69.3	69.7	70.2	64.1
72	59.0	58.5	57.9	56.6	55.3	54.8	54.4	54.9
96	55.5	56.9	58.4	61.1	64.1	65.8	67.7	68.2
120	68.8	69.2	69.7	68.9	68.2	68.7	69.3	68.9
144	68.6	68.1	67.7	66.7	65.8	66.0	66.3	65.0
168	63.8	61.4	59.2	59.8	60.4	58.7	57.2	56.9
192	56.7	56.1	55.5	55.9	56.4	55.6	54.8	54.0
216	53.3	54.7	56.2	56.3	56.4	56.3	56.2	55.6
240	55.1	55.1	55.1	53.4	51.8	52.1	52.4	52.3
264	52.2	52.4	52.5	52.0	51.6	51.3	51.1	51.1
288	51.1	51.7	52.4	53.2	54.1	53.6	53.1	52.7
312	52.2	51.3	50.5	50.4	50.4	50.0	49.7	49.6
336	49.4	49.2	49.0	49.0	49.1	49.1	49.1	50.2

DEPTH	3048.1		TILT	-60		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	50.2	52.2	54.4	53.8	53.3	53.3	53.3	53.3
24	53.3	54.5	55.8	55.5	55.3	55.9	56.5	57.0
48	57.5	59.8	62.3	62.7	63.2	60.6	58.3	56.8
72	55.5	55.0	54.5	53.5	52.5	52.6	52.7	52.0
96	51.4	52.6	53.8	54.6	55.6	59.6	64.3	64.2
120	64.1	65.2	66.3	65.7	65.1	64.1	63.3	63.3
144	63.4	61.8	60.3	60.8	61.4	61.7	62.1	61.6
168	61.2	60.1	59.0	58.3	57.6	56.4	55.2	55.0
192	54.8	54.8	54.7	55.0	55.3	55.1	55.0	54.6
216	54.2	55.0	55.8	55.9	56.1	54.6	53.1	51.9
240	50.8	51.0	51.3	49.8	48.5	49.6	50.8	50.6
264	50.4	50.7	51.1	51.1	51.1	50.7	50.4	50.4
288	50.5	52.7	55.2	54.5	53.9	53.3	52.8	52.8
312	52.8	51.8	50.8	50.6	50.4	50.0	49.7	49.4
336	49.1	49.1	49.1	49.4	49.7	49.8	49.9	50.0

DEPTH	3048.1		TILT	-63		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	51.7	52.9	54.1	53.5	53.0	52.7	52.4	52.7
24	53.1	53.1	53.1	54.0	54.8	54.9	55.0	55.6
48	56.2	57.8	59.5	59.9	60.4	57.1	54.2	54.3
72	54.4	53.8	53.3	53.0	52.8	52.3	51.7	51.7
96	51.6	52.8	54.1	53.4	52.8	52.7	52.5	56.6
120	61.4	61.3	61.4	61.6	61.8	61.2	60.6	59.7
144	58.9	58.2	57.6	55.5	53.6	54.4	55.2	54.5
168	53.9	54.7	55.6	54.9	54.2	54.1	54.1	53.9
192	53.8	54.0	54.2	54.4	54.5	54.4	54.4	54.5
216	54.7	54.7	54.7	52.4	50.4	50.0	49.6	48.5
240	47.6	47.6	47.7	47.9	48.0	48.3	48.6	48.8
264	49.0	49.2	49.4	49.8	50.2	50.1	50.0	50.0
288	49.9	52.2	54.8	54.6	54.4	54.0	53.6	54.2
312	54.8	53.4	52.1	51.3	50.7	50.3	50.0	50.3
336	50.5	50.2	49.9	49.9	49.9	50.0	50.0	50.9



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	3048.1		TILT	-66		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	58.1	57.5	56.9	56.5	56.2	54.6	53.0	52.7
24	52.4	52.5	52.7	53.0	53.5	53.9	54.4	54.8
48	55.2	55.5	55.9	54.2	52.7	52.5	52.4	52.4
72	52.4	52.7	53.0	52.5	52.1	51.3	50.7	50.7
96	50.8	52.7	54.7	53.7	52.7	52.1	51.6	50.7
120	49.9	51.3	52.8	51.2	49.7	53.0	56.7	56.5
144	56.2	56.6	57.0	54.6	52.4	52.6	52.8	52.5
168	52.2	51.0	49.9	51.3	52.8	52.7	52.7	52.9
192	53.1	53.1	53.1	53.6	54.1	54.2	54.4	54.0
216	53.6	53.5	53.5	50.8	48.3	47.7	47.1	47.2
240	47.4	47.1	46.8	46.7	46.6	47.3	48.0	47.7
264	47.4	47.9	48.3	48.6	48.8	48.9	49.0	48.9
288	49.0	51.2	53.6	53.8	54.1	54.6	55.2	53.8
312	52.5	52.2	51.9	52.4	52.8	53.0	53.1	52.2
336	51.3	50.9	50.5	50.4	50.4	51.0	51.7	54.7

DEPTH	3048.1		TILT	-69		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	57.8	57.2	56.7	54.6	52.7	52.7	52.7	52.4
24	52.2	52.8	53.5	53.5	53.6	53.7	53.9	52.5
48	51.1	51.1	51.1	50.9	50.7	51.3	52.1	52.0
72	52.1	51.9	51.7	51.7	51.6	51.2	50.8	50.7
96	50.5	51.6	52.7	52.9	53.1	52.9	52.7	52.2
120	51.7	51.9	52.1	50.9	49.7	51.9	54.2	54.0
144	53.8	53.4	53.0	51.9	51.0	49.6	48.3	48.3
168	48.3	48.6	48.8	50.2	51.6	51.6	51.6	51.4
192	51.3	51.7	52.2	52.2	52.2	52.1	52.1	52.0
216	51.9	51.6	51.3	49.1	47.1	46.8	46.5	46.2
240	45.9	45.9	46.0	46.0	46.0	46.2	46.5	46.5
264	46.6	46.6	46.6	46.8	46.9	47.4	47.9	48.0
288	48.2	50.1	52.2	53.2	54.2	54.3	54.4	54.6
312	54.8	54.6	54.4	54.4	54.4	54.4	54.5	54.4
336	54.2	55.8	57.5	57.8	58.1	58.1	58.1	57.9

DEPTH	3048.1		TILT	-72		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	57.0	56.1	55.2	55.1	55.2	52.3	49.7	50.9
24	52.2	52.2	52.2	52.2	52.2	51.7	51.3	51.0
48	50.8	50.8	50.8	50.6	50.4	50.8	51.3	51.3
72	51.3	51.1	51.0	50.9	50.8	51.5	52.2	52.6
96	53.0	52.0	51.0	51.0	51.0	51.1	51.3	51.4
120	51.4	51.4	51.3	51.3	51.3	51.3	51.3	51.0
144	50.8	50.4	50.0	50.0	50.0	49.9	49.7	50.0
168	50.2	50.3	50.4	50.5	50.7	50.5	50.4	50.3
192	50.4	50.3	50.2	50.5	50.8	50.7	50.5	50.2
216	49.9	49.9	49.9	48.2	46.6	46.6	46.5	46.5
240	46.5	46.1	45.7	46.4	47.1	46.5	45.9	45.9
264	46.0	46.0	46.0	46.4	46.8	45.9	45.1	45.1
288	45.1	45.7	46.3	49.3	52.7	53.1	53.6	53.7
312	53.8	54.0	54.2	55.0	55.8	55.8	55.8	55.5
336	55.3	55.2	55.2	55.8	56.4	56.5	56.7	56.9



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	3048.1		TILT	-75		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	55.0	55.3	55.6	52.2	49.1	49.1	49.1	49.0
24	49.0	49.8	50.7	50.8	51.0	50.1	49.3	49.2
48	49.1	49.3	49.4	50.0	50.7	50.7	50.7	50.7
72	50.8	50.8	50.8	50.9	51.0	51.6	52.2	52.2
96	52.2	52.1	52.1	51.7	51.3	51.0	50.7	50.0
120	49.3	49.6	49.9	49.9	49.9	49.8	49.7	49.6
144	49.4	49.5	49.6	49.3	49.1	49.1	49.1	49.6
168	50.0	50.1	50.2	50.0	49.9	50.1	50.4	50.5
192	50.7	50.7	50.7	50.5	50.4	50.4	50.5	49.9
216	49.3	48.6	47.9	47.2	46.5	46.6	46.6	46.3
240	46.0	46.2	46.3	46.0	45.7	45.7	45.7	45.8
264	45.9	46.1	46.3	46.3	46.3	45.7	45.1	45.2
288	45.2	45.4	45.5	46.7	47.9	50.4	53.1	53.3
312	53.5	53.5	53.6	53.6	53.6	54.1	54.5	54.5
336	54.4	55.1	55.8	55.4	55.0	55.0	55.0	55.0

DEPTH	3048.1		TILT	-78		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	56.4	52.3	48.8	48.8	48.8	48.6	48.5	49.6
24	50.8	49.5	48.3	49.5	50.8	49.9	49.0	49.0
48	49.0	49.8	50.7	50.7	50.7	50.7	50.8	50.8
72	50.8	50.7	50.7	51.2	51.7	52.1	52.5	52.4
96	52.2	52.2	52.2	51.7	51.1	50.3	49.4	49.4
120	49.4	49.3	49.3	49.5	49.7	49.7	49.6	49.8
144	50.0	50.0	50.0	50.0	49.9	49.9	49.9	49.9
168	49.9	49.8	49.7	49.8	49.9	49.9	49.9	50.1
192	50.4	50.3	50.4	50.1	49.9	49.9	49.9	49.4
216	49.0	48.7	48.5	48.2	47.9	47.9	47.9	47.7
240	47.6	46.9	46.3	46.3	46.3	46.3	46.3	46.3
264	46.3	46.2	46.2	46.4	46.6	46.9	47.3	46.9
288	46.6	47.5	48.3	50.6	53.0	53.0	53.0	51.1
312	49.3	49.3	49.4	51.3	53.3	53.4	53.6	53.7
336	53.8	54.6	55.5	55.5	55.5	55.4	55.3	55.8

DEPTH	3048.1		TILT	-81		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	52.1	52.1	52.1	51.7	51.3	51.1	51.0	51.0
24	51.0	51.0	51.0	50.5	50.0	50.0	50.0	50.0
48	50.0	50.3	50.5	50.5	50.5	50.6	50.7	50.7
72	50.7	51.0	51.4	51.4	51.4	51.7	51.9	51.9
96	51.9	52.0	52.1	52.0	51.9	51.0	50.2	50.2
120	50.2	50.2	50.2	50.4	50.7	50.6	50.5	50.5
144	50.5	50.1	49.7	49.7	49.7	49.8	49.9	49.9
168	49.9	49.9	49.9	49.9	49.9	50.0	50.2	50.3
192	50.4	50.3	50.2	49.8	49.4	49.4	49.4	49.2
216	49.0	49.0	49.0	48.9	48.8	48.6	48.3	48.0
240	47.7	47.8	47.9	47.9	47.9	48.2	48.5	48.5
264	48.5	48.0	47.6	47.3	47.1	48.5	49.9	49.9
288	49.9	50.6	51.3	51.4	51.4	52.0	52.7	52.7
312	52.7	52.0	51.4	51.4	51.4	51.4	51.4	53.0
336	54.7	54.8	54.8	55.3	55.8	55.8	55.8	53.9



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	3048.1		TILT	-84		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	53.6	52.8	52.1	51.7	51.4	51.4	51.4	51.4
24	51.4	51.4	51.4	51.4	51.4	51.3	51.1	51.1
48	51.1	51.1	51.1	51.2	51.3	51.3	51.3	51.3
72	51.3	51.3	51.3	52.0	52.8	52.1	51.4	51.4
96	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
120	51.4	51.0	50.5	50.5	50.5	50.4	50.4	50.4
144	50.4	50.4	50.4	50.0	49.7	49.8	49.9	49.9
168	49.9	49.9	49.9	49.8	49.7	49.6	49.4	49.4
192	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.1
216	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
240	48.8	49.0	49.1	49.1	49.1	49.0	49.0	49.0
264	49.0	49.0	49.1	49.3	49.4	49.9	50.4	50.4
288	50.4	50.4	50.4	50.4	50.4	50.7	51.0	51.1
312	51.3	51.3	51.3	52.0	52.8	52.8	52.7	52.7
336	52.7	52.7	52.7	53.1	53.5	52.8	52.2	52.9

DEPTH	3048.1		TILT	-87		VOS	5958.86	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.0
24	51.9	52.0	52.1	52.1	52.1	52.1	52.1	52.0
48	51.9	52.2	52.5	52.5	52.5	52.4	52.4	52.1
72	51.9	52.2	52.5	52.2	51.9	52.0	52.1	52.1
96	52.1	51.5	51.0	50.9	50.8	50.9	51.0	51.0
120	51.0	50.9	50.8	50.8	50.8	50.4	50.0	50.0
144	50.0	50.0	50.0	50.0	49.9	50.0	50.0	50.0
168	50.0	49.9	49.7	49.7	49.7	49.8	49.9	49.9
192	49.9	49.8	49.7	49.8	49.9	50.0	50.0	50.0
216	50.0	50.0	50.0	50.0	49.9	50.0	50.0	50.0
240	49.9	50.0	50.0	50.0	50.0	50.3	50.5	50.5
264	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
288	50.5	50.5	50.5	50.8	51.1	51.4	51.7	51.7
312	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
336	51.7	52.1	52.5	52.6	52.7	52.4	52.1	52.1

DEPTH	3053.1		TILT	0		VOS	5959.37	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	66.8	61.4	56.9	56.9	57.0	51.5	47.0	54.9
24	66.5	62.6	58.6	60.4	61.6	62.0	62.4	66.2
48	70.7	66.1	62.1	67.8	77.5	113.0	87.8	219.9
72	225.0	231.3	238.7	237.4	236.7	239.0	242.0	245.3
96	249.3	253.9	259.4	262.4	268.7	268.2	268.4	276.0
120	285.1	289.4	294.7	300.7	307.8	309.2	312.8	312.3
144	312.8	305.3	299.1	294.6	291.1	290.3	290.4	290.8
168	292.1	293.8	296.4	297.4	299.7	301.2	303.4	305.0
192	307.4	310.6	314.8	312.5	311.1	305.7	302.7	301.4
216	299.1	246.2	206.3	209.9	214.3	204.3	195.8	287.1
240	278.7	278.7	279.4	273.7	275.4	213.7	186.3	155.4
264	130.7	116.3	105.6	106.5	107.6	96.8	89.2	82.7
288	76.8	77.0	77.4	75.8	74.5	70.7	67.2	62.3
312	58.2	61.0	63.9	59.3	54.7	56.8	59.2	60.5
336	62.1	62.8	63.8	57.4	52.5	52.1	51.8	58.3



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	3058.2		TILT	0		VOS	5959.42	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	61.9	57.1	53.1	53.3	53.6	49.7	46.3	48.2
24	46.4	59.5	59.8	56.5	53.1	57.0	61.7	65.8
48	70.7	65.9	62.0	66.7	72.5	111.8	82.4	228.8
72	239.0	239.9	242.4	240.7	239.7	245.4	252.0	254.0
96	256.7	259.5	263.0	268.4	271.0	273.1	276.0	282.4
120	285.1	290.5	297.1	301.6	307.1	309.9	311.4	308.8
144	307.1	300.7	295.4	292.8	291.1	290.3	290.4	291.2
168	292.7	295.0	298.1	299.1	299.7	301.3	303.7	305.6
192	308.4	313.6	319.8	317.3	315.8	308.3	301.7	303.0
216	299.4	200.6	201.9	188.2	175.3	180.5	185.4	196.1
240	209.0	206.1	203.9	202.9	202.4	193.9	186.6	152.2
264	124.0	115.3	108.3	93.8	82.6	78.7	75.1	76.6
288	78.4	77.3	76.4	66.8	73.8	60.7	62.6	60.8
312	59.2	60.3	61.6	56.5	52.2	54.8	57.7	55.8
336	54.1	57.7	62.1	54.4	48.7	48.8	49.0	54.6

DEPTH	3064.3		TILT	0		VOS	5959.42	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	57.8	53.2	49.5	50.4	51.6	49.1	47.1	46.3
24	45.8	51.4	58.8	54.4	50.7	55.7	61.7	67.2
48	74.0	67.5	62.3	66.8	72.3	76.8	82.0	233.2
72	239.6	242.4	245.1	247.2	250.0	251.7	254.1	258.0
96	262.7	265.6	269.3	273.9	279.3	280.3	282.1	285.2
120	289.0	293.0	298.0	304.3	311.8	311.4	311.8	308.6
144	306.3	300.1	294.9	292.2	290.4	291.4	293.2	294.3
168	296.3	297.2	299.0	299.7	301.1	300.9	301.5	304.6
192	308.7	315.2	322.9	319.7	317.4	312.0	307.7	240.8
216	194.0	193.2	192.9	180.8	172.5	177.3	182.9	187.0
240	193.6	195.7	198.5	191.2	184.6	185.8	187.2	145.1
264	121.7	114.6	105.1	91.0	82.0	77.4	73.7	75.3
288	77.1	73.6	70.6	65.0	59.6	60.6	61.9	58.2
312	55.1	56.8	58.8	52.2	47.8	49.5	51.6	47.8
336	44.6	51.2	59.5	53.0	48.1	48.0	48.1	52.4

DEPTH	3068.7		TILT	0		VOS	5959.42	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	57.1	52.4	48.7	48.3	48.0	45.9	44.1	44.4
24	44.8	50.2	56.7	53.1	49.8	54.8	61.2	66.5
48	72.0	66.6	62.3	67.0	72.6	77.3	82.3	121.3
72	239.9	243.3	247.5	249.3	251.7	251.0	251.0	256.2
96	262.4	264.8	267.9	273.1	277.6	281.0	285.2	286.3
120	288.3	293.0	298.7	304.7	311.8	311.1	310.4	307.9
144	306.3	300.4	295.6	292.9	291.1	292.7	295.2	295.5
168	296.6	297.6	299.4	299.1	299.4	300.2	301.8	304.8
192	308.7	314.7	321.9	321.6	322.2	315.6	308.4	239.9
216	182.2	180.7	179.8	176.2	172.9	175.8	179.3	179.4
240	180.1	174.0	168.8	171.4	174.2	176.8	179.9	142.7
264	123.1	109.9	98.2	88.8	81.3	77.6	72.6	71.5
288	70.6	70.3	70.2	64.2	59.9	59.8	59.9	57.3
312	55.0	54.8	54.6	50.5	47.2	48.1	49.2	46.9
336	44.7	49.7	56.7	51.5	47.4	46.8	46.4	51.1



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	3073.1			TILT	0			VOS	5959.42	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	56.1	51.2	47.2	48.1	49.1	45.9	43.3	43.9		
24	44.6	49.8	56.4	52.4	49.1	52.5	56.4	61.2		
48	68.8	66.2	64.6	68.2	72.5	79.1	83.7	116.5		
72	241.6	244.1	247.5	248.6	250.4	252.6	255.4	258.9		
96	263.1	267.0	271.7	274.7	279.3	281.4	284.2	287.2		
120	289.4	293.7	299.0	304.9	311.8	311.1	311.1	308.8		
144	307.3	304.3	302.2	295.6	290.1	293.6	298.0	297.6		
168	298.0	297.6	298.0	300.8	300.1	300.4	301.5	310.1		
192	320.1	321.4	323.6	322.1	321.5	319.2	316.3	239.5		
216	182.2	177.7	173.2	174.2	176.0	172.5	169.8	167.4		
240	165.6	155.4	144.4	150.3	157.1	164.5	172.2	138.1		
264	122.8	112.1	94.1	84.6	79.6	75.8	72.6	71.0		
288	69.2	67.0	65.0	61.7	58.5	55.8	53.3	53.4		
312	53.6	52.3	51.2	48.3	46.0	47.5	49.2	45.9		
336	43.4	46.6	51.0	48.3	46.3	46.4	46.6	50.6		

DEPTH	3078.1			TILT	60			VOS	5959.42	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	284.4	279.6	277.4	276.7	276.0	276.3	276.8	275.6		
24	274.5	275.0	275.8	273.7	271.8	272.9	275.0	273.7		
48	272.6	274.5	276.6	274.3	272.2	272.7	273.4	273.7		
72	274.2	274.3	274.6	273.3	273.8	273.9	274.2	272.6		
96	274.6	275.6	277.3	277.3	277.3	276.1	275.0	272.0		
120	267.5	269.2	271.1	271.4	271.8	271.0	270.3	271.1		
144	271.4	271.4	271.4	270.6	269.9	270.0	270.3	269.6		
168	269.1	271.0	273.1	273.8	274.6	274.1	273.8	274.3		
192	275.0	276.3	277.7	276.3	275.0	275.1	275.3	276.6		
216	278.1	278.2	278.9	278.0	277.3	276.9	276.6	277.6		
240	278.9	278.4	278.1	279.7	281.3	282.3	283.6	282.6		
264	281.7	282.8	284.0	283.0	282.1	280.4	279.7	280.2		
288	280.9	281.4	282.1	281.4	281.0	281.7	282.6	281.2		
312	280.0	279.2	278.4	278.8	279.3	280.8	282.5	281.9		
336	281.4	279.9	278.7	278.5	278.5	280.4	282.5	283.3		

DEPTH	3078.1			TILT	55			VOS	5959.42	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	264.5	264.3	264.3	263.1	262.1	261.3	260.7	259.1		
24	257.8	258.4	259.2	259.0	259.0	260.9	263.0	264.9		
48	267.1	270.2	273.0	274.1	276.4	278.9	281.5	283.8		
72	286.4	287.1	288.0	290.5	293.1	293.1	293.5	292.5		
96	293.5	292.5	291.9	292.5	293.5	293.5	293.5	291.1		
120	289.9	290.8	291.9	292.6	293.5	294.3	295.4	293.2		
144	291.5	292.2	293.1	294.1	295.4	293.7	292.3	292.7		
168	293.5	293.1	293.1	293.7	294.7	295.7	297.0	296.5		
192	296.2	297.6	299.4	299.0	299.0	298.0	297.4	297.7		
216	298.2	296.4	295.5	297.1	299.0	299.0	299.4	297.0		
240	295.0	297.0	299.4	296.9	297.4	296.7	303.3	299.6		
264	296.2	297.3	298.6	297.9	297.4	293.5	289.9	286.8		
288	283.0	282.2	281.7	280.3	279.3	280.0	281.3	279.6		
312	278.6	279.7	281.4	276.5	272.1	267.4	263.0	262.2		
336	261.5	265.1	268.8	268.1	267.6	265.8	264.3	264.3		



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	3078.1			TILT			51			VOS			5959.42		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	212.2	215.0	218.0	217.9	218.1	213.8	210.0	208.8							
24	207.8	217.4	228.2	234.2	239.1	242.8	247.2	247.2							
48	247.5	248.6	250.0	257.1	264.0	263.8	264.0	265.4							
72	267.2	271.8	276.3	279.4	282.9	287.7	294.5	297.6							
96	301.7	305.6	310.0	311.4	313.1	309.2	311.6	307.5							
120	311.2	312.4	313.9	313.4	313.1	314.3	315.9	314.3							
144	314.7	312.6	312.4	311.0	310.0	311.6	313.5	315.1							
168	317.1	315.9	315.1	313.7	312.7	314.9	317.5	316.1							
192	315.1	315.3	315.9	313.1	310.8	311.6	312.7	315.7							
216	319.0	315.6	315.5	313.5	312.0	311.6	311.6	310.4							
240	309.6	311.4	313.5	309.2	310.4	306.8	307.2	305.7							
264	304.6	302.4	299.4	285.6	278.9	271.1	227.0	241.2							
288	234.8	231.9	226.2	227.6	229.1	232.7	235.3	236.4							
312	237.9	236.2	234.6	224.6	218.1	213.5	209.4	211.2							
336	213.2	221.2	221.7	219.7	217.6	215.4	213.4	212.7							

DEPTH	3078.1			TILT			48			VOS			5959.42		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	186.8	187.0	196.3	183.1	179.9	179.9	178.2	193.3							
24	197.2	201.9	207.5	219.1	231.3	231.4	231.7	231.0							
48	230.7	234.5	238.8	242.3	250.1	251.2	252.6	256.1							
72	260.0	263.9	268.3	269.8	271.6	274.1	277.0	281.7							
96	287.0	289.4	292.6	298.2	304.1	306.8	310.0	314.3							
120	319.0	320.6	322.5	324.8	327.5	328.2	329.3	327.7							
144	329.3	328.2	332.0	330.4	329.3	331.6	334.4	331.6							
168	329.3	327.3	325.7	330.7	336.3	334.2	332.4	332.4							
192	332.8	332.6	332.8	329.2	326.1	327.5	329.3	330.0							
216	331.2	328.4	329.3	328.1	327.3	325.5	324.2	323.4							
240	323.0	319.9	317.5	314.3	311.2	307.9	305.3	298.9							
264	292.9	274.7	250.2	242.5	233.7	224.8	215.4	213.7							
288	212.3	208.9	205.8	203.9	198.7	193.4	188.5	199.5							
312	186.1	183.8	181.8	181.7	181.8	181.1	180.6	181.1							
336	181.8	193.4	198.9	190.1	181.4	180.5	179.8	188.3							

DEPTH	3078.1			TILT			45			VOS			5959.42		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	168.9	166.5	163.7	163.2	162.9	164.1	165.6	175.0							
24	182.5	189.7	197.6	204.0	211.1	214.8	219.0	218.1							
48	217.4	224.9	233.4	236.1	239.1	241.0	243.5	244.7							
72	246.2	248.6	251.3	254.7	258.0	261.5	265.4	263.2							
96	261.3	269.8	278.6	276.7	275.1	278.6	282.6	295.5							
120	305.1	312.0	317.7	325.1	334.8	333.0	331.6	330.6							
144	330.1	333.3	337.1	339.2	341.9	339.0	336.7	338.3							
168	340.3	341.0	342.2	341.4	341.1	341.0	341.5	340.8							
192	340.7	341.2	342.2	339.8	337.9	337.1	336.7	334.7							
216	333.2	321.1	313.8	318.6	322.6	321.4	320.6	316.3							
240	312.4	309.9	307.6	305.2	303.2	299.2	295.8	284.9							
264	278.3	257.1	241.1	232.5	224.8	218.6	213.0	209.2							
288	205.8	203.0	200.7	196.8	194.8	191.4	188.5	185.0							
312	182.6	181.6	181.0	180.3	179.8	179.1	178.6	178.9							
336	179.4	179.3	179.4	176.7	173.5	173.6	173.9	170.8							



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	3078.1			TILT			42			VOS			5959.42		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	166.4	164.2	162.9	162.6	162.5	163.2	164.1	166.6							
24	172.3	180.1	188.9	196.4	203.1	205.8	208.8	208.1							
48	207.7	212.2	217.2	225.9	232.5	230.3	228.5	229.6							
72	231.1	232.5	234.3	238.3	243.1	245.7	248.6	248.6							
96	249.0	254.4	261.0	260.4	260.2	262.1	264.4	262.0							
120	260.1	266.2	273.3	279.3	285.9	286.3	287.0	294.0							
144	303.1	315.2	326.1	325.8	326.1	324.6	323.6	325.6							
168	328.1	330.4	333.1	333.1	333.5	333.0	333.0	329.7							
192	326.6	330.3	334.2	331.8	329.9	322.1	315.8	309.5							
216	304.4	298.4	294.0	299.3	305.1	303.8	302.9	302.2							
240	301.9	302.0	302.6	295.8	289.4	287.0	285.0	273.6							
264	262.9	246.6	234.8	225.9	216.0	213.5	211.3	208.0							
288	205.8	202.2	199.1	195.6	193.2	189.8	186.9	184.6							
312	182.6	181.2	180.1	178.7	177.8	175.9	174.3	175.1							
336	176.3	173.5	171.2	169.8	168.8	167.5	166.4	166.3							

DEPTH	3078.1			TILT			39			VOS			5959.42		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	166.0	164.1	162.5	162.0	161.8	161.0	160.4	162.0							
24	163.9	169.4	176.3	185.1	195.0	196.8	197.8	199.9							
48	202.3	207.0	213.0	213.6	214.5	216.0	217.9	218.5							
72	219.4	220.3	221.5	225.3	229.6	233.4	237.7	236.3							
96	235.3	240.7	247.9	246.6	245.8	247.7	250.0	246.8							
120	244.1	249.7	256.5	260.4	264.8	266.7	269.0	280.2							
144	287.1	286.8	287.0	296.4	307.9	301.1	293.7	295.3							
168	297.5	300.9	305.6	306.9	308.7	304.4	298.9	294.4							
192	290.3	283.5	279.9	280.7	281.9	279.6	277.9	277.5							
216	277.6	279.6	282.1	288.0	292.1	293.2	294.8	293.4							
240	292.4	289.1	286.3	271.5	262.4	267.8	273.9	262.3							
264	252.7	240.7	228.8	220.0	214.4	212.1	210.2	205.8							
288	203.3	200.3	197.8	195.0	192.6	188.9	186.0	184.6							
312	182.6	179.4	176.7	176.0	175.6	173.2	171.2	170.7							
336	170.5	170.0	169.8	169.3	169.1	168.1	167.3	166.5							

DEPTH	3078.1			TILT			36			VOS			5959.42		
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21							
0	166.3	164.9	163.9	161.5	159.4	160.4	161.8	162.6							
24	163.5	167.1	172.6	178.6	187.4	187.9	188.7	193.2							
48	198.5	200.3	202.6	203.3	204.1	207.2	210.9	209.4							
72	208.2	209.6	211.3	215.2	219.5	223.4	227.9	229.1							
96	230.7	233.7	237.1	236.1	235.5	235.2	235.4	234.7							
120	234.5	226.5	212.8	216.0	219.5	218.5	217.8	228.1							
144	204.0	236.2	213.0	280.0	284.3	280.0	276.3	279.1							
168	282.4	282.8	283.5	283.9	284.7	278.3	272.6	273.4							
192	274.7	273.1	272.0	270.3	268.8	265.9	263.5	265.3							
216	267.6	271.1	275.7	280.1	285.2	284.5	284.3	277.6							
240	271.8	268.3	265.5	260.1	255.4	252.8	250.7	247.8							
264	245.4	232.6	224.4	218.7	215.0	211.7	208.8	206.7							
288	205.0	202.5	200.5	196.5	192.9	191.4	190.2	185.6							
312	181.8	180.6	179.3	176.4	173.9	172.8	172.0	171.3							
336	170.8	169.7	168.7	168.1	167.7	167.4	167.3	166.7							



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	3078.1			TILT	33	VOS			5959.42
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	167.0	163.9	86.1	79.1	77.5	164.8	166.5	166.5	
24	167.1	167.5	168.2	173.2	179.9	180.9	182.2	183.9	
48	185.6	191.3	197.0	195.2	193.6	197.7	202.2	200.5	
72	199.2	201.7	204.5	208.2	212.5	215.8	219.5	218.4	
96	217.7	222.3	227.6	222.3	217.6	218.8	220.4	222.4	
120	211.9	206.6	201.6	203.1	205.0	205.5	206.4	199.7	
144	189.1	195.2	201.2	212.5	226.1	220.0	214.4	226.7	
168	245.0	245.5	246.2	237.6	238.4	232.6	227.5	226.8	
192	226.5	231.3	236.8	238.1	241.2	245.5	250.3	253.6	
216	257.6	263.7	271.4	274.2	279.0	279.1	279.7	271.4	
240	263.7	262.3	261.4	255.3	249.7	248.4	247.6	241.4	
264	235.7	232.0	228.9	219.5	211.6	208.6	206.1	206.4	
288	207.1	202.7	200.5	198.3	196.6	191.9	186.9	184.0	
312	182.3	179.5	78.9	176.3	86.5	174.6	77.5	85.9	
336	89.2	85.6	82.3	77.8	69.9	168.7	168.0	167.4	

DEPTH	3078.1			TILT	30	VOS			5959.42
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	169.8	80.6	78.2	75.1	65.7	80.1	53.6	168.7	
24	168.7	167.9	167.3	171.1	175.4	175.7	74.4	177.5	
48	179.0	183.1	187.4	187.4	187.7	190.4	193.3	192.0	
72	190.9	193.4	196.4	199.4	203.0	206.4	209.4	209.9	
96	210.8	211.8	213.3	211.3	209.8	207.7	206.1	203.8	
120	201.6	198.3	195.3	195.7	196.4	196.9	197.8	188.4	
144	181.2	184.2	187.7	197.3	208.5	207.4	206.8	211.3	
168	216.4	215.0	214.0	216.8	220.2	222.1	220.3	220.2	
192	220.6	223.6	227.1	230.1	233.7	238.2	243.9	248.1	
216	253.1	257.8	264.1	268.1	272.8	269.0	265.9	262.9	
240	260.7	256.9	253.6	249.0	245.1	244.7	244.8	238.4	
264	233.7	230.7	228.2	220.0	213.3	207.3	203.6	204.8	
288	207.4	203.7	201.2	198.3	196.3	193.6	191.0	108.0	
312	94.1	83.5	76.4	78.6	80.4	76.7	73.9	75.9	
336	84.0	79.6	79.5	72.2	58.5	59.1	59.9	169.8	

DEPTH	3078.1			TILT	27	VOS			5959.42
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	76.1	74.5	71.2	65.8	63.7	57.7	52.2	169.6	
24	170.3	169.7	169.5	169.3	80.2	75.1	72.6	75.5	
48	176.6	180.2	184.5	183.1	182.2	185.1	188.8	187.1	
72	186.0	187.5	189.5	193.1	197.4	200.3	204.3	204.1	
96	204.3	204.5	205.0	202.9	201.2	199.6	198.5	198.2	
120	198.4	195.8	194.0	193.1	192.6	191.0	189.8	181.7	
144	175.0	179.5	184.6	192.3	201.2	196.8	192.9	201.3	
168	210.2	207.9	206.1	206.7	207.8	211.3	213.7	215.1	
192	217.1	218.3	220.2	224.7	229.9	234.7	240.3	244.0	
216	247.9	252.7	258.3	262.8	269.0	265.8	263.2	257.9	
240	253.4	249.3	245.9	243.3	241.3	240.4	240.0	235.1	
264	230.9	227.8	190.9	178.8	165.4	159.3	154.2	140.5	
288	135.1	123.6	119.8	113.2	106.5	101.1	73.7	92.4	
312	89.1	80.5	73.0	74.7	76.8	71.2	67.1	69.5	
336	72.3	73.1	74.0	64.3	58.1	57.8	57.7	66.1	



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	3078.1		TILT	24		VOS	5959.42	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	74.8	67.6	62.1	62.0	62.1	54.1	50.5	59.3
24	77.1	77.9	63.0	65.5	73.0	71.3	69.9	72.8
48	75.8	74.9	82.0	81.2	82.3	185.3	186.0	186.0
72	186.4	187.3	188.8	190.3	192.2	194.6	199.1	200.3
96	201.9	200.3	199.1	197.2	195.7	194.5	193.7	191.3
120	189.3	189.6	190.4	188.8	187.6	185.1	182.9	177.5
144	174.6	176.6	179.1	186.7	191.2	187.8	185.0	192.5
168	201.3	197.9	195.2	198.5	202.4	200.6	199.1	202.3
192	206.1	208.5	215.0	219.0	225.0	230.5	236.8	240.8
216	245.8	250.4	255.8	260.6	266.2	262.0	258.5	254.4
240	251.0	245.6	240.3	238.8	237.9	236.4	235.4	232.2
264	229.6	206.8	174.6	146.4	120.8	119.5	101.3	93.1
288	86.5	89.8	93.7	100.4	101.5	80.5	73.7	75.0
312	68.8	69.1	69.2	69.1	58.4	62.9	65.6	66.8
336	68.2	70.1	72.3	62.5	52.6	53.4	54.3	63.6

DEPTH	3078.1		TILT	21		VOS	5959.42	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	71.6	65.0	56.8	56.9	57.1	52.9	49.4	49.3
24	75.8	66.4	63.0	63.9	65.0	65.5	66.2	70.8
48	75.4	70.6	65.7	73.5	79.9	185.2	188.8	187.3
72	186.7	187.9	190.5	191.1	192.2	194.3	196.8	198.1
96	199.8	197.8	196.3	194.5	193.3	191.7	190.5	188.1
120	186.1	186.3	186.9	184.9	183.4	180.5	178.4	174.5
144	172.2	173.5	174.6	180.1	186.0	183.0	180.5	187.1
168	193.0	192.0	191.5	194.1	197.2	197.2	197.8	200.5
192	205.0	207.2	210.4	214.8	220.1	224.0	228.9	233.9
216	241.0	245.4	250.8	255.2	260.3	257.7	255.7	250.1
240	244.4	239.6	235.4	235.0	235.1	233.3	232.0	229.6
264	175.0	158.5	117.2	128.1	115.4	105.4	94.9	86.9
288	81.5	84.7	90.6	90.1	89.8	76.9	72.3	65.5
312	61.4	64.5	68.2	61.1	55.9	58.9	62.2	59.8
336	57.9	63.1	67.9	58.0	52.2	52.4	52.6	58.9

DEPTH	3078.1		TILT	18		VOS	5959.42	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	65.0	59.6	54.5	54.5	54.7	51.7	49.4	48.7
24	48.1	53.8	62.3	57.7	54.3	59.7	64.7	69.1
48	74.4	69.0	65.0	69.7	76.1	187.9	188.4	188.0
72	188.1	188.9	190.2	191.6	193.6	194.6	197.4	198.2
96	199.5	204.6	210.6	206.8	203.6	201.8	200.5	203.5
120	214.0	205.9	198.8	198.2	198.1	189.6	179.4	176.8
144	175.0	176.5	180.8	180.5	180.7	179.1	178.2	182.1
168	188.7	188.8	189.4	190.9	192.9	194.9	197.4	200.6
192	204.3	207.7	212.6	215.7	219.4	224.7	229.9	233.9
216	238.7	242.4	246.7	250.4	254.8	253.1	252.0	247.5
240	243.0	237.1	232.3	232.7	233.7	232.6	232.0	180.5
264	154.2	128.3	109.6	110.7	111.8	100.6	91.1	86.1
288	80.6	80.8	81.3	79.5	61.9	63.7	65.7	63.7
312	62.6	63.2	64.7	58.0	50.1	53.3	60.3	52.5
336	48.1	59.9	65.4	56.3	50.9	50.6	50.5	56.2



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	3078.1		TILT	15		VOS	5959.42	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	60.2	55.0	51.0	52.0	53.2	50.8	48.6	47.7
24	46.7	53.1	59.9	56.3	52.2	57.9	63.7	68.3
48	73.0	68.5	64.0	68.9	74.8	189.1	86.6	190.5
72	190.5	193.0	198.1	200.1	203.0	202.9	203.3	203.0
96	204.7	208.6	213.3	213.6	214.4	210.2	207.1	216.4
120	227.1	226.9	227.1	220.3	214.4	209.4	207.1	203.0
144	199.5	191.5	181.2	180.6	180.5	179.6	179.1	181.3
168	183.9	186.7	191.9	192.9	195.7	196.6	198.1	200.7
192	204.0	207.9	212.6	214.7	217.5	221.1	224.4	233.1
216	237.6	241.5	246.4	248.5	251.4	251.6	252.4	246.9
240	242.7	237.1	233.0	232.9	233.4	209.0	192.2	176.5
264	142.8	121.0	109.3	109.6	86.5	99.9	77.8	82.1
288	81.3	80.0	78.9	67.9	61.9	63.0	64.3	60.5
312	57.1	58.3	60.3	54.1	49.3	51.1	53.3	48.6
336	46.3	52.7	61.6	55.0	49.5	49.2	49.1	54.2

DEPTH	3078.1		TILT	12		VOS	5959.42	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	58.8	53.9	49.5	49.2	49.1	46.8	45.0	45.3
24	45.7	51.3	59.8	55.0	52.0	56.9	63.0	68.4
48	73.5	68.7	63.3	68.2	74.0	78.5	216.6	217.7
72	219.6	214.9	226.4	213.1	201.9	203.0	204.7	205.6
96	207.1	209.9	213.3	217.9	222.3	218.7	215.4	220.8
120	227.1	234.7	243.4	233.9	225.8	220.2	216.8	220.2
144	224.4	216.4	204.0	203.2	203.0	204.2	206.1	202.2
168	199.1	197.8	197.1	207.6	199.1	200.8	203.0	205.2
192	208.1	210.7	214.0	215.4	217.4	222.6	228.7	232.1
216	235.4	239.8	245.2	248.2	251.8	250.9	250.6	245.8
240	241.7	240.3	239.4	235.3	235.4	217.6	206.3	183.5
264	136.6	118.8	109.1	95.8	84.3	79.5	75.1	77.3
288	79.9	77.4	73.3	66.3	60.7	61.7	63.0	59.1
312	56.1	56.9	57.9	51.9	48.3	49.1	50.0	47.8
336	45.7	50.9	59.8	53.0	48.5	47.9	47.5	52.8

DEPTH	3078.1		TILT	9		VOS	5959.42	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21
0	57.6	52.9	48.8	48.8	49.0	46.7	44.0	44.8
24	45.7	50.4	57.3	53.4	50.1	54.6	62.9	67.4
48	73.8	67.5	62.9	67.6	73.2	77.7	83.0	216.0
72	217.4	221.9	227.6	229.7	232.4	236.1	240.6	242.1
96	244.3	248.4	252.6	253.5	255.6	257.2	259.5	252.2
120	285.9	262.6	243.4	235.5	228.5	247.0	306.0	270.9
144	295.6	289.1	293.2	291.4	290.4	291.9	294.2	296.9
168	300.4	301.4	303.2	276.8	298.0	248.2	218.2	220.1
192	214.4	215.7	217.5	224.8	228.2	237.1	235.1	243.7
216	247.9	248.0	248.7	251.2	254.4	265.8	279.0	275.0
240	271.7	269.1	267.2	261.2	258.9	247.2	238.0	156.9
264	125.3	116.2	109.9	92.6	82.8	78.5	75.5	76.6
288	77.9	75.1	72.7	64.9	60.5	60.5	60.7	57.9
312	55.5	55.0	54.5	50.2	47.0	48.3	49.9	47.2
336	44.4	48.9	57.0	51.2	47.7	47.5	47.5	51.4



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	3078.1			TILT	6			VOS	5959.42	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	56.4	51.6	47.4	48.3	49.4	46.1	43.3	44.0		
24	44.8	50.1	56.7	52.8	49.4	52.7	57.4	64.2		
48	71.6	68.2	65.3	69.2	73.2	78.2	82.9	223.2		
72	234.1	233.7	239.9	238.6	238.0	240.1	242.9	246.1		
96	250.2	253.1	256.7	259.7	262.6	264.9	268.0	272.9		
120	279.4	284.0	289.9	297.1	305.4	309.0	313.5	311.4		
144	310.1	305.6	302.1	298.0	294.7	292.5	291.1	291.5		
168	292.8	294.8	297.6	299.3	301.6	303.0	305.3	297.5		
192	290.9	297.9	306.3	307.5	309.7	306.5	303.1	298.4		
216	205.0	247.5	204.3	189.2	175.5	180.5	186.2	198.7		
240	213.3	211.1	209.4	210.5	212.2	195.1	187.6	147.3		
264	122.6	112.8	100.5	89.3	81.4	76.8	73.2	71.6		
288	69.8	69.2	68.8	63.3	60.2	58.8	54.3	54.1		
312	54.1	52.8	51.8	48.5	46.2	47.7	49.7	46.0		
336	43.6	46.7	52.1	48.7	46.4	46.6	46.8	51.3		

DEPTH	3078.1			TILT	3			VOS	5959.42	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	52.8	48.1	44.4	46.1	47.9	44.9	42.3	43.4		
24	44.6	49.5	56.1	52.3	49.2	52.5	56.4	56.3		
48	65.0	64.4	64.6	68.0	72.2	79.4	83.9	119.7		
72	240.0	242.8	245.9	247.9	250.5	252.0	254.1	258.1		
96	263.1	266.0	269.8	274.5	280.3	281.6	283.8	285.5		
120	288.5	292.8	298.1	303.7	310.3	311.2	312.1	309.1		
144	307.0	300.7	295.4	292.8	290.9	291.5	292.8	295.5		
168	299.0	299.3	300.4	300.9	303.5	302.6	302.6	305.4		
192	309.0	314.8	321.7	318.9	317.0	311.3	305.9	240.9		
216	192.2	184.8	180.5	176.4	173.3	176.1	179.5	179.9		
240	180.8	173.2	167.3	170.3	174.2	176.9	180.3	141.7		
264	123.0	113.1	93.9	81.2	79.1	75.9	73.2	71.2		
288	69.0	66.5	64.4	60.5	57.0	53.9	51.0	50.4		
312	50.0	48.8	48.0	46.6	45.5	45.4	45.4	44.3		
336	43.4	45.4	47.9	46.6	45.7	45.9	46.3	48.5		

DEPTH	3078.1			TILT	0			VOS	5959.42	
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21		
0	50.9	46.4	44.6	46.0	47.8	44.6	42.0	43.2		
24	44.3	49.4	55.7	52.0	48.8	51.8	55.0	53.3		
48	51.7	57.7	65.0	68.3	71.3	78.7	87.9	105.5		
72	240.6	244.2	248.6	249.7	251.3	255.1	259.6	263.4		
96	267.9	272.3	277.5	279.5	282.6	285.4	289.0	291.4		
120	294.7	297.6	301.5	306.6	312.9	311.4	310.8	308.1		
144	306.3	304.1	302.8	300.9	299.7	299.2	299.5	302.9		
168	307.3	305.4	304.2	305.9	308.0	308.1	309.1	313.9		
192	319.8	320.9	322.9	321.2	320.5	319.7	318.6	226.3		
216	180.9	170.9	162.2	165.5	169.8	165.7	161.1	156.5		
240	152.5	140.6	133.3	133.8	134.7	140.6	150.7	139.4		
264	133.9	108.9	80.3	77.3	74.2	70.0	66.8	66.1		
288	65.5	62.1	57.0	52.9	51.4	49.6	48.0	46.4		
312	45.0	44.6	44.4	44.0	43.8	42.9	42.1	42.4		
336	42.9	43.2	43.9	43.8	43.8	45.0	46.3	47.9		



CUSTOMER : Westlake Chemicals
 DATE : April 15, 2024

CAVERN : PPG No. 007B
 OPERATION No. : 8



WALL RANGES VS DEPTH

DEPTH	3083.3			TILT	0	VOS			5959.94
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	45.3	43.7	42.6	44.0	45.7	42.6	40.4	42.5	
24	44.7	48.1	55.3	50.5	47.4	51.0	54.6	52.9	
48	51.5	56.8	63.4	67.7	72.5	77.1	85.4	104.3	
72	242.2	244.5	141.9	141.5	141.5	257.5	259.6	261.9	
96	265.0	274.5	285.6	285.8	289.7	289.8	290.6	296.1	
120	307.7	310.4	313.9	309.7	306.3	308.3	305.6	303.3	
144	301.8	298.6	296.3	298.1	300.8	304.1	308.4	306.6	
168	305.6	307.8	310.8	311.3	320.2	316.2	313.2	317.5	
192	322.9	320.2	318.4	306.3	181.2	179.9	179.1	178.2	
216	177.8	165.9	155.8	157.5	74.0	68.7	67.8	67.2	
240	126.9	121.3	116.4	119.0	122.6	133.4	141.8	136.7	
264	133.5	95.2	72.1	61.4	58.5	57.7	57.1	55.2	
288	53.3	50.7	48.6	47.5	46.6	44.2	41.9	41.2	
312	40.5	39.6	38.9	37.6	36.5	36.1	35.9	36.0	
336	36.3	36.4	36.6	36.3	36.2	38.0	40.1	42.8	

DEPTH	3088.2			TILT	0	VOS			5959.94
Bearing	+ 0	+ 3	+ 6	+ 9	+ 12	+ 15	+ 18	+ 21	
0	37.9	38.0	38.1	39.2	40.4	39.6	38.9	40.8	
24	43.6	46.4	48.8	47.7	46.7	51.0	54.3	52.6	
48	50.5	56.1	63.3	67.3	71.8	77.5	83.4	101.4	
72	134.6	136.3	138.3	136.1	134.2	255.3	256.6	259.1	
96	262.3	267.6	76.2	278.0	281.8	284.6	288.4	291.9	
120	296.3	300.5	305.6	308.8	312.9	308.4	309.8	307.8	
144	306.7	304.5	303.2	301.4	300.4	299.2	298.7	302.6	
168	307.4	305.6	304.6	308.3	309.8	309.7	310.5	310.1	
192	310.5	307.6	50.0	47.8	45.9	49.5	61.0	62.8	
216	63.9	57.9	53.0	52.8	52.7	53.5	54.5	56.8	
240	59.6	60.7	62.0	82.1	92.0	98.8	102.5	127.5	
264	133.1	91.1	58.1	56.3	55.0	51.4	47.8	47.0	
288	46.4	44.2	43.1	41.4	39.6	37.8	36.3	35.7	
312	35.3	32.6	31.2	30.6	30.1	29.9	29.7	29.4	
336	29.2	28.9	28.6	28.8	29.1	29.1	29.1	33.7	



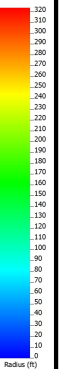
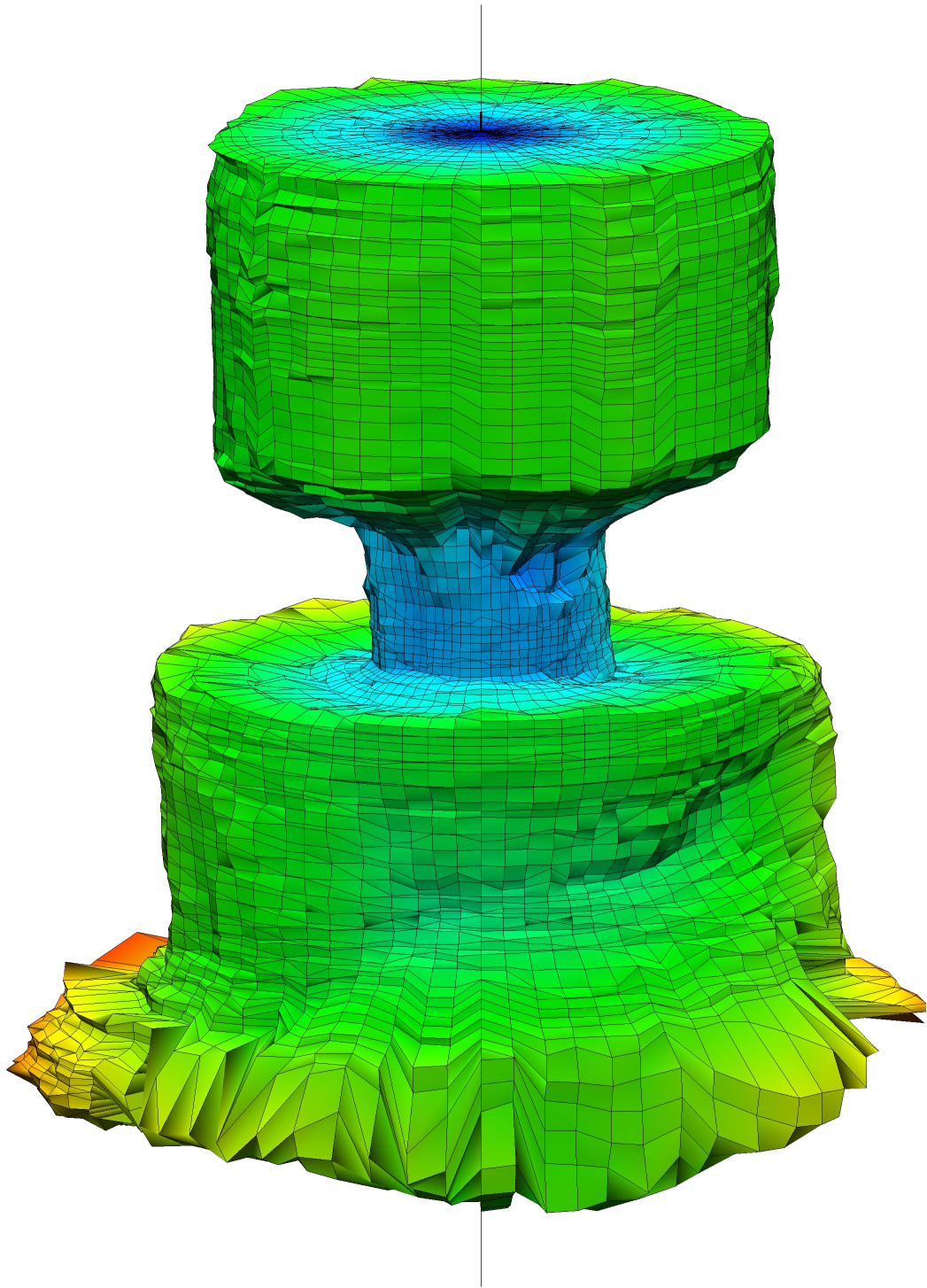
CUSTOMER : Westlake Chemicals
DATE : April 15, 2024

CAVERN : PPG No. 007B
OPERATION No. : 8



VIEW FROM NORTH
with an overhang of 10°

SCALE 1/100





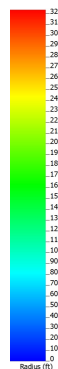
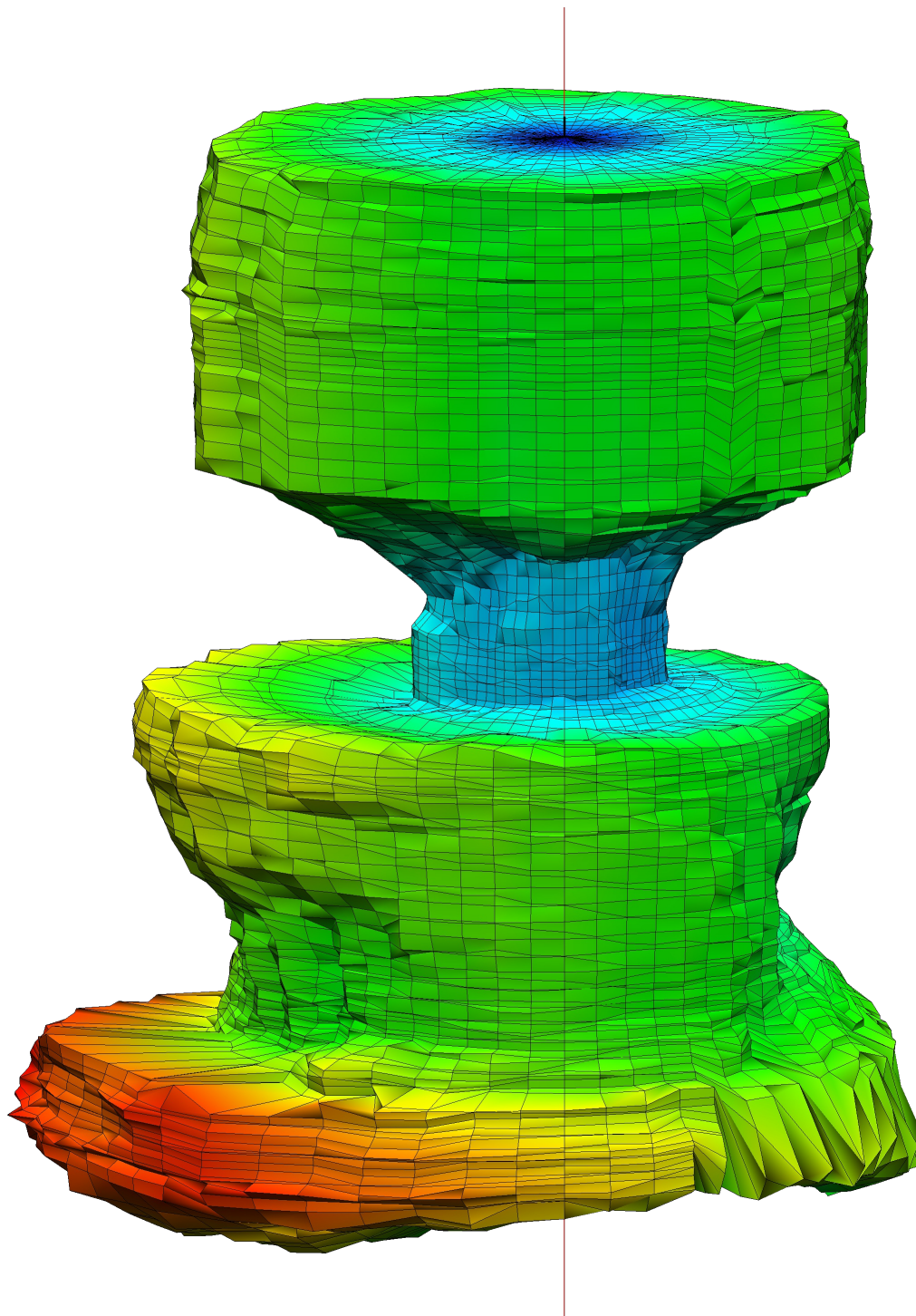
CUSTOMER : Westlake Chemicals
DATE : April 15, 2024

CAVERN : PPG No. 007B
OPERATION No. : 8



VIEW FROM EAST
with an overhang of 10°

SCALE 1/100





CUSTOMER : Westlake Chemicals
DATE : April 15, 2024

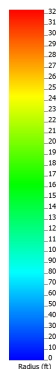
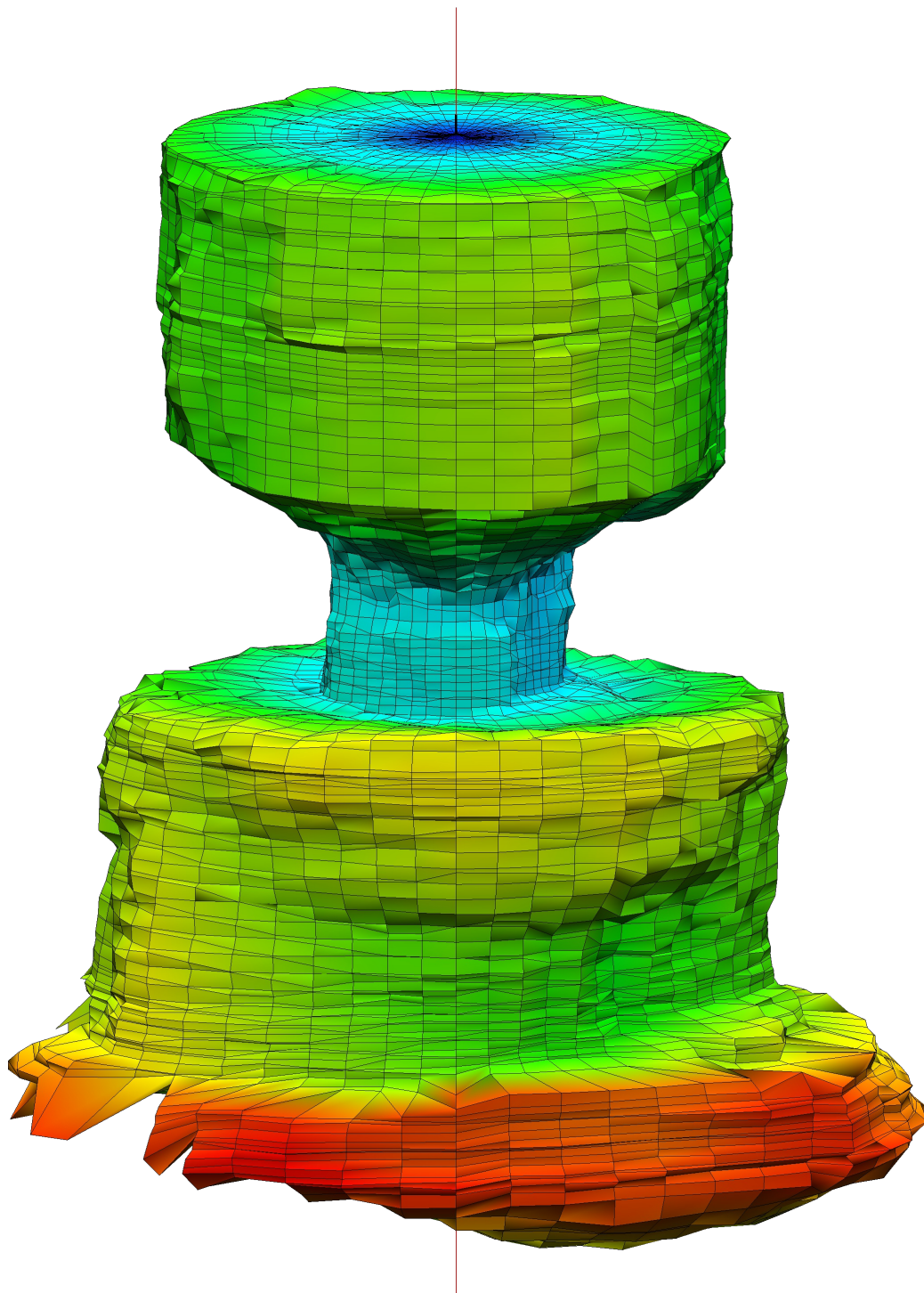
CAVERN : PPG No. 007B
OPERATION No. : 8



VIEW FROM SOUTH

with an overhang of 10°

SCALE 1/100





CUSTOMER : Westlake Chemicals
DATE : April 15, 2024

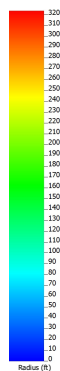
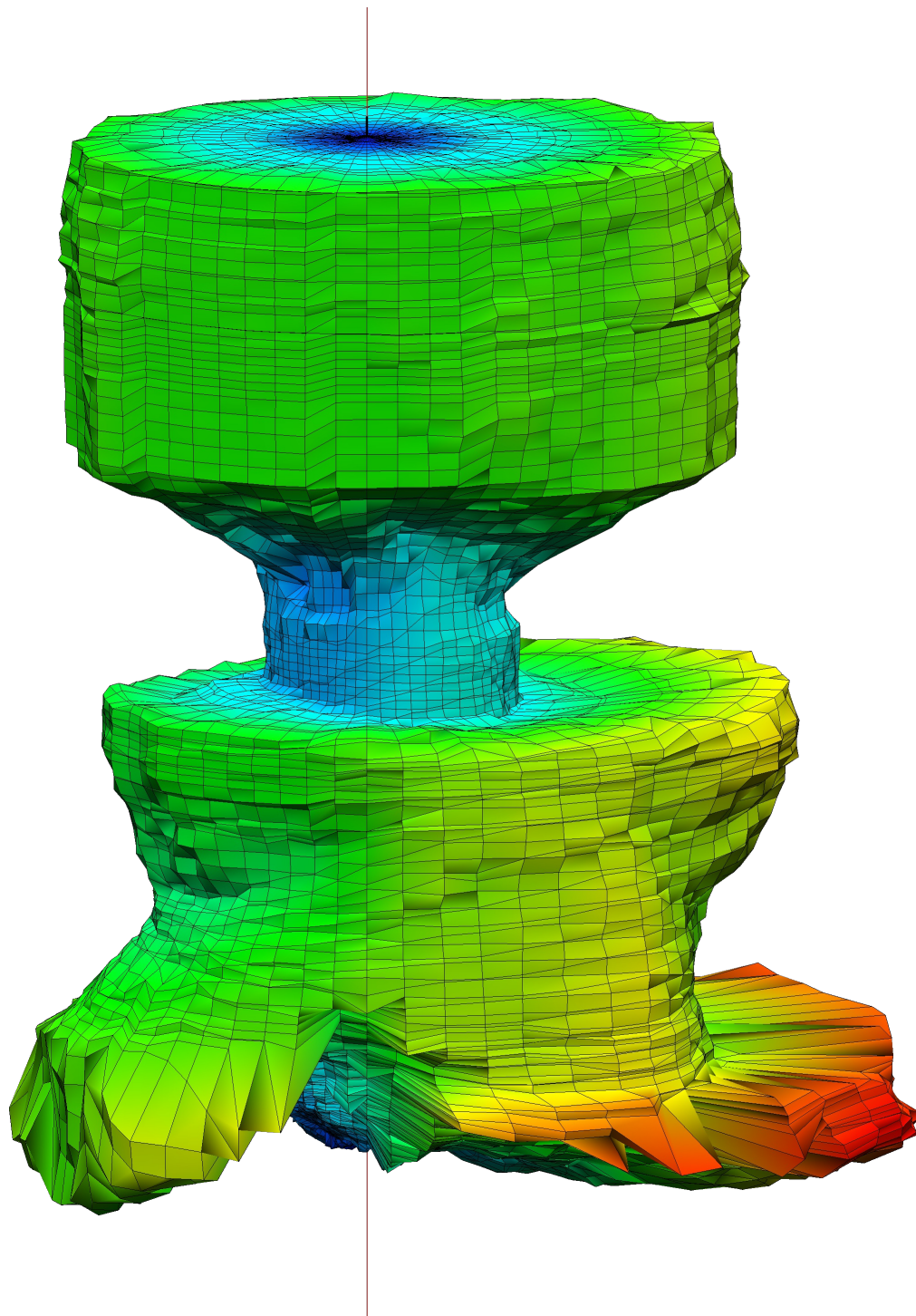
CAVERN : PPG No. 007B
OPERATION No. : 8



VIEW FROM WEST

with an overhang of 10°

SCALE 1/100





CUSTOMER : Westlake Chemicals
DATE : April 15, 2024

CAVERN : PPG No. 007B
OPERATION No. : 8



VIEW FROM NORTH

2380 ft

SCALE 1/100

- ▲ Casing 7-5/8" at 2501 ft (MD)
- ▲ Casing 5-1/2" at 2607 ft (MD)

2480 ft

2580 ft

2680 ft

2780 ft

Depth (MD)

2880 ft

2980 ft

3080 ft

3180 ft

3280 ft

300 ft

200 ft

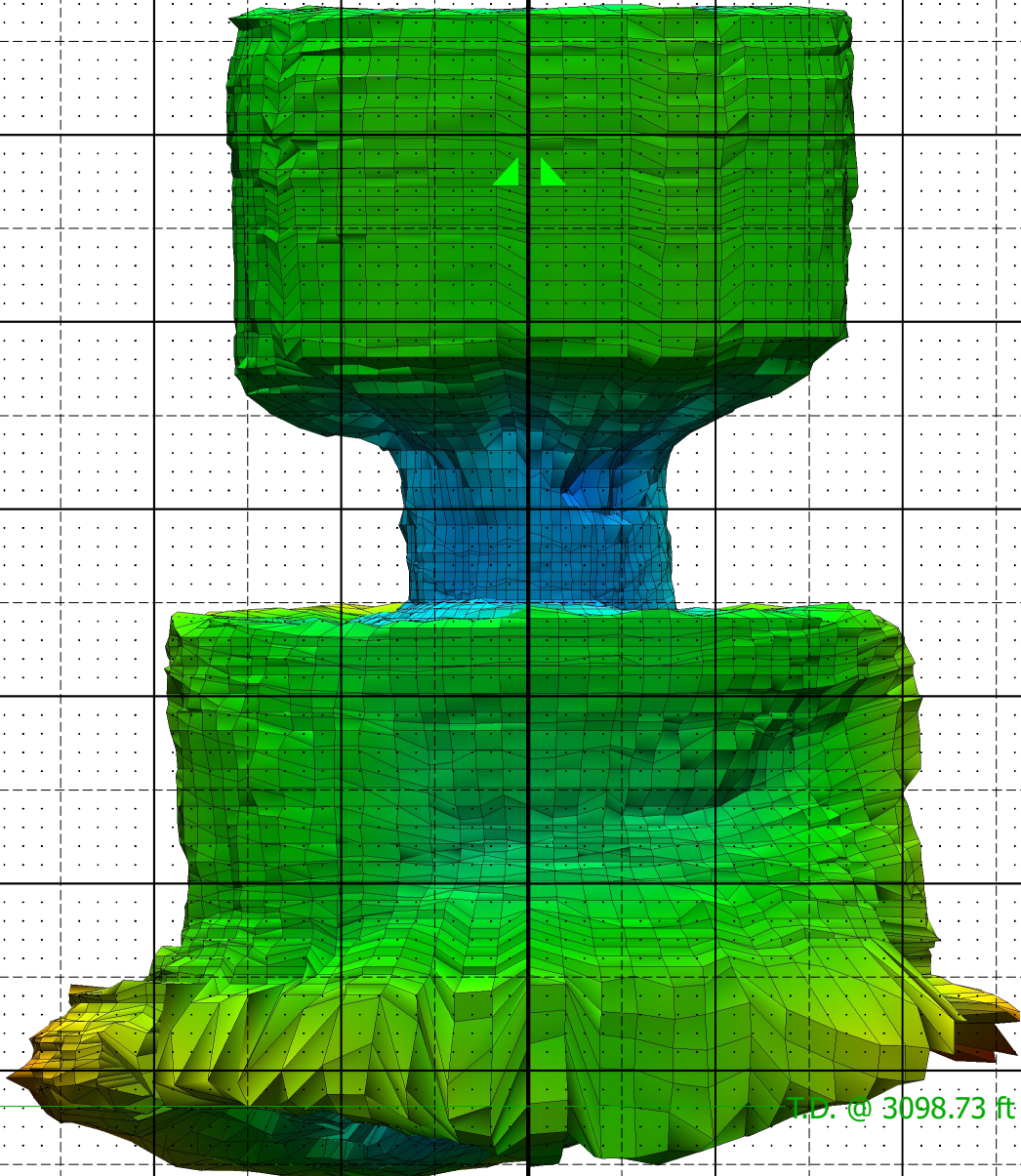
100 ft

0 ft

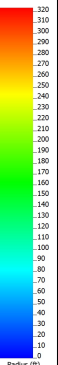
100 ft

200 ft

300 ft



MD. @ 3098.73 ft (MD)





CUSTOMER : Westlake Chemicals
DATE : April 15, 2024

CAVERN : PPG No. 007B
OPERATION No. : 8



VIEW FROM EAST

2380 ft

SCALE 1/100

- ▲ Casing 7-5/8" at 2501 ft (MD)
- ▲ Casing 5-1/2" at 2607 ft (MD)

2480 ft

2580 ft

2680 ft

2780 ft

Depth (MD)

2880 ft

2980 ft

3080 ft

T.D. @ 3098.73 ft (MD)

3180 ft

3280 ft

300 ft

200 ft

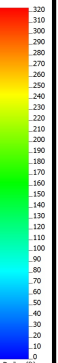
100 ft

0 ft

100 ft

200 ft

300 ft





CUSTOMER : Westlake Chemicals
DATE : April 15, 2024

CAVERN : PPG No. 007B
OPERATION No. : 8



VIEW FROM SOUTH

2380 ft

SCALE 1/100

- ▲ Casing 7-5/8" at 2501 ft (MD)
- ▲ Casing 5-1/2" at 2607 ft (MD)

2480 ft

2580 ft

2680 ft

2780 ft

Depth (MD)

2880 ft

2980 ft

3080 ft

T.D. @ 3098.73 ft (MD)

3180 ft

3280 ft

300 ft

200 ft

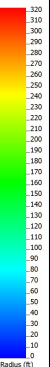
100 ft

0 ft

100 ft

200 ft

300 ft





CUSTOMER : Westlake Chemicals
DATE : April 15, 2024

CAVERN : PPG No. 007B
OPERATION No. : 8



VIEW FROM WEST

2380 ft

SCALE 1/100

- ▲ Casing 7-5/8" at 2501 ft (MD)
- ▲ Casing 5-1/2" at 2607 ft (MD)

2480 ft

2580 ft

2680 ft

2780 ft

Depth (MD)

2880 ft

2980 ft

3080 ft

3180 ft

3280 ft

300 ft

200 ft

100 ft

0 ft

100 ft

200 ft

300 ft

