



Margaret Sue Kelley UD-B WTZ 4H
Wetzel Co, WV
SDC 40

Plan vs Actual

Plan Data for Margaret Sue Kelley UD-B WTZ 4H

Plan Point Information: (Scale Factor = 0.999608)
DogLeg Severity Unit: %/100.00ft Position offsets from Slot centre

MD (USft)	Inc (°)	Az (°)	TVD (USft)	+N/-S (USft)	+E/-W (USft)	VSec (USft)	DLS (DLSU)	Toolface (°)	Comments
0.00	0.00	0.00	-0.00	0.00	0.00	0.00	0.00	0.0	
26.00	0.00	0.00	26.00	0.00	0.00	0.00	0.00	0.0	0.0 KB Offset
1450.00	0.00	0.00	1450.00	0.00	0.00	0.00	0.00	0.0	0.0 Nudge KOP
1600.00	3.00	65.00	1599.93	1.66	3.56	-1.39	2.00	65.0	Build/Turn
1724.12	5.00	43.10	1723.75	6.98	10.20	-2.43	2.00	311.4	Hold
6227.55	5.00	43.10	6218.04	293.59	278.36	5.40	0.00	0.0	Curve KOP 7° DLS
7233.16	70.00	309.49	6982.62	675.33	-105.93	546.83	7.00	264.6	Build/Turn 9° DLS
7461.09	90.51	310.01	7021.00	818.23	-277.70	769.50	9.00	1.5	Landing Point
12774.64	90.51	310.01	6974.00	4234.03	-4347.58	6066.27	0.00	0.0	PBHL MSK4H

Target Set Information: (Scale Factor = 0.999608)
Name: Margaret Sue Kelley WTZ 4H
Position offsets from Slot centre

Name	TVD (USft)	+N/-S (USft)	+E/-W (USft)	Northing (USft)	Easting (USft)	Lat (°)	Long (°)
LP MSK4H	7021.00	701.15	-138.30	14414220.73	1725221.46	39.690619	-80.698537
PBHL MSK4H	6974.00	4234.03	-4347.58	14417752.22	1721013.83	39.700355	-80.713454

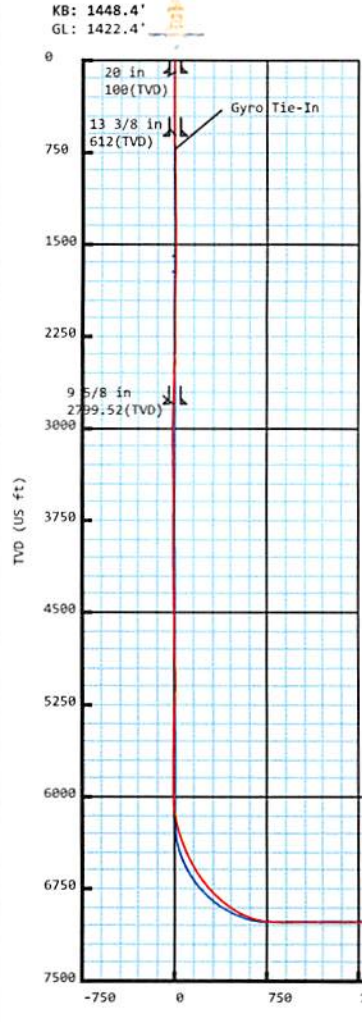


Plan Data for Margaret Sue Kelley UD-B WTZ 4H

Formation Point Information:

Name	TVD Elevation (USft)	MD (USft)
Burket 2	7026.00	0.00
Burket 1	7033.00	0.00
Tully	7040.00	0.00
Base Fresh Water	512.00	936.40
Burket Shale	721.00	727.40
Top of Salt Water	962.00	486.40
Pittsburgh Coal	1242.00	206.40
Maxton	2217.00	-768.60
Big Lime	2335.00	-886.60
Big Injun	2416.00	-967.60
Base Big Injun	2659.00	-1210.60
Berea	3008.00	-1559.60
Gordon Sandstone	3173.00	-1724.60
Upper Rhinestreet	6536.00	-5087.60
Lower Rhinestreet	6685.00	-5236.60
Basal Rhinestreet	6748.00	-5299.60
Cashaqua	6824.00	-5375.60
Middlesex	6934.00	-5485.60
Lower Middlesex	6962.00	-5513.60
Geneseo	6988.00	-5539.60
Geneseo 1	7008.00	-5559.60

Drawing By: Vilaphanh (Cot) Sinakone
Date: 22 May 2018
Office Name: Weatherford Drilling Services
Address: 12101 Cutten Road
Houston, TX 77066
Phone: 281-701-4760



Plan Data for Margaret Sue Kelley UD-B WTZ 4H

Field: SOUTHWESTERN_WETZEL CO, WV UTM NAD 83 (17N)
Map Unit: USFt Vertical Reference Datum (VRD): Mean Sea Level
Projected Coordinate System: NAD83 / UTM zone 17N

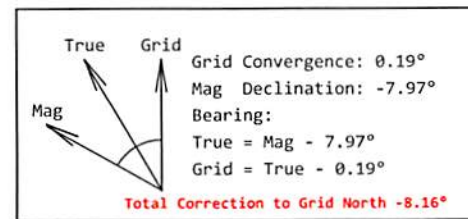
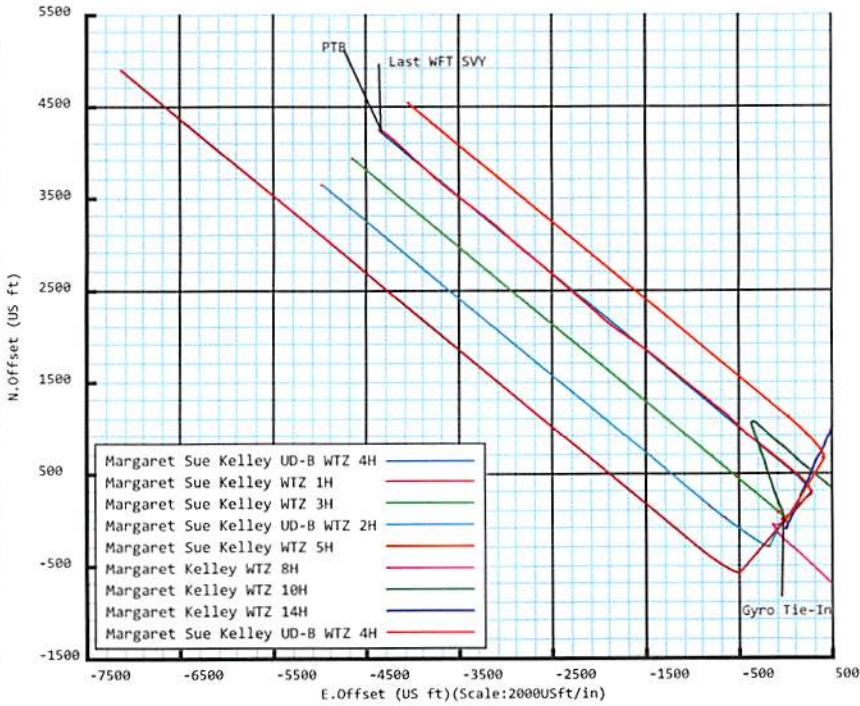
Site: Margaret Sue Kelley WTZ Pad
Unit: USFeet TVD Reference:
Company Name: SOUTHWESTERN ENERGY

Position: Northing: 14413498.28USft Latitude: 39.688633°
Easting: 1725348.27USft Longitude: -80.698095°
North Reference: Grid Grid Convergence: 0.19°
Elevation Above VRD: 1422.40USft

Slot: Margaret Sue Kelley UD-B WTZ 4H
Position:
Offset is from Site centre
+N/-S: 21.58USft Northing: 14413519.85USft Latitude: 39.688692°
+E/-W: 11.44USft Easting: 1725359.71USft Longitude: -80.698054°
Elevation Above VRD: 1422.40USft

Well: Margaret Sue Kelley UD-B WTZ 4H
Type: Main-Well
File Number: NE-13141526
Plan Folder: P1 Plan: P1:V3
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft Azimuth: 314.24°
+E/-W: 0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
M 2016 52277(nT) -7.97° 66.88° 2018-05-25

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Margaret Sue Kelley UD-B WTZ 4H

Field Name: SOUTHWESTER N_WETZEL CO, WV UTM NAD 83 (17N)	Map Units: US ft	Company Name: SOUTHWESTERN ENERGY	
	Vertical Reference Datum (VRD): Mean Sea Level		
	Projected Coordinate System: NAD83 / UTM zone 17N		
Site: Margaret Sue Kelley WTZ Pad	Units: US ft	North Reference: Grid	Convergence Angle: 0.19
	Position:	Northing: 14413498.28 US ft	Latitude: 39.688633
		Easting: 1725348.27 US ft	Longitude: -80.698095
	Elevation above MSL: 1422.40 US ft		
Comment:			
Slot: Margaret Sue Kelley UD-B WTZ 4H	Position (Relative to Site Centre)		
	+N/-S: 21.58 US ft	Northing: 14413519.85 US ft	Latitude: 39.688692
	+E/-W: 11.44 US ft	Easting: 1725359.71 US ft	Longitude: -80.698054
	Slot TVD Reference: Ground Elevation		
	Elevation above MSL: 1422.40 US ft		
Well: Margaret Sue Kelley UD-B WTZ 4H	Type: Main well	UWI:	
	File Number: NE-13141526	Comment:	
	Closure Distance: 6068.18 US ft	Closure Azimuth: 314.44°	
	Vertical Section: Position of Origin (Relative to Slot centre)		
	+N/-S: 0.00 US ft	+E/-W: 0.00 US ft	Az: 314.24°
	Comment:		

Drill floor: Survey Name: Definitive Survey			
Rig Height (Drill Floor): 26.00 US ft	Elevation above MSL: 1448.40 US ft	Inclination: 0.00°	Azimuth: 0.00°

Survey Name: Definitive Survey			
Date: 29/Mar/2018	Survey Tool: See Survey Tool Ranges below.	Comment:	Company:

Magnetic Model:			
Model Name: HDGM 2016	Date: 25/May/2018	Field Strength: 52277.0nT	Declination: -7.97° Dip: 66.88°

Tie Point:			
MD: 0.00 US ft	Inclination: 0.00°	Azimuth: 0.00°	TVD: -0.00 US ft
North Offset: 0.00 US ft	East Offset: 0.00 US ft	Comment:	

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5D Survey Report

Survey Tool Ranges:			
Name	Start MD(USft)	End MD(USft)	Source Survey
GYRO_GC_WIR+DPIPE_GYD	0.00	726.00	Gyro
MFAC_US_V2	726.00	1422.00	WFT MWD_01_MFAC
MWD	1422.00	2795.00	WFT MWD_01
MWD	2795.00	6554.00	WFT MWD_02
MWD	6554.00	12728.00	WFT MWD_03

Wellpath created using minimum curvature.

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor) (Scale factor 0.999608)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100US ft)	Comment
0.00	0.00	0.00	-0.00	0.00	0.00	0.00	39.688693	-80.698054	0.00	
100.00	0.13	270.96	100.00	0.08	0.00	-0.11	39.688693	-80.698055	0.13	
200.00	0.13	327.24	200.00	0.28	0.10	-0.29	39.688693	-80.698055	0.12	
300.00	0.10	311.41	300.00	0.47	0.25	-0.42	39.688693	-80.698056	0.04	
400.00	0.20	7.93	400.00	0.66	0.48	-0.46	39.688694	-80.698056	0.17	
500.00	0.11	345.94	500.00	0.85	0.75	-0.46	39.688695	-80.698056	0.11	
542.00	0.36	1.23	542.00	0.97	0.92	-0.46	39.688695	-80.698056	0.61	
632.00	0.36	357.32	632.00	1.37	1.49	-0.47	39.688697	-80.698056	0.03	
726.00	0.48	351.52	725.99	1.90	2.17	-0.54	39.688698	-80.698056	0.14	Gyro Tie-In
872.00	0.80	331.53	871.98	3.36	3.67	-1.12	39.688703	-80.698058	0.26	
962.00	1.00	9.27	961.97	4.41	5.00	-1.29	39.688706	-80.698059	0.68	
1054.00	1.72	35.45	1053.95	5.08	6.91	-0.36	39.688711	-80.698055	1.01	
1147.00	2.32	39.63	1146.89	5.45	9.50	1.65	39.688719	-80.698048	0.66	
1237.00	2.26	40.10	1236.82	5.72	12.26	3.95	39.688726	-80.698040	0.07	
1330.00	1.44	42.34	1329.77	5.89	14.53	5.92	39.688732	-80.698033	0.88	
1422.00	0.91	38.70	1421.75	6.00	15.95	7.16	39.688736	-80.698029	0.58	
1515.00	2.19	49.81	1514.71	5.90	17.68	8.98	39.688741	-80.698022	1.41	
1608.00	3.36	53.92	1607.60	5.27	20.43	12.54	39.688748	-80.698009	1.28	
1701.00	3.82	49.13	1700.42	4.55	24.06	17.08	39.688758	-80.697993	0.59	
1793.00	4.42	47.20	1792.18	4.10	28.47	22.00	39.688770	-80.697976	0.67	
1886.00	5.08	47.58	1884.86	3.68	33.69	27.67	39.688785	-80.697955	0.71	
1979.00	5.63	46.30	1977.46	3.27	39.62	34.01	39.688801	-80.697933	0.61	
2072.00	4.77	42.89	2070.07	3.20	45.60	39.94	39.688817	-80.697912	0.98	
2164.00	4.29	41.23	2161.79	3.47	50.99	44.81	39.688832	-80.697894	0.54	
2254.00	3.42	49.14	2251.58	3.42	55.28	49.06	39.688844	-80.697879	1.13	
2347.00	2.85	56.67	2344.44	2.69	58.36	53.09	39.688852	-80.697865	0.75	
2439.00	2.93	63.25	2436.33	1.43	60.68	57.10	39.688859	-80.697851	0.37	
2532.00	3.34	75.93	2529.19	-0.77	62.41	61.85	39.688863	-80.697834	0.86	
2624.00	4.01	78.02	2621.00	-3.97	63.73	67.60	39.688867	-80.697813	0.74	
2714.00	3.96	77.80	2710.78	-7.43	65.04	73.71	39.688870	-80.697791	0.06	
2795.00	3.78	74.91	2791.60	-10.34	66.32	79.02	39.688874	-80.697773	0.33	
2903.00	3.38	70.42	2899.39	-13.56	68.32	85.46	39.688879	-80.697750	0.45	
2995.00	3.51	59.08	2991.22	-15.48	70.67	90.43	39.688886	-80.697732	0.75	
3088.00	4.97	36.37	3083.97	-15.66	75.38	95.26	39.688899	-80.697715	2.36	
3181.00	5.85	27.16	3176.56	-13.72	82.84	99.82	39.688919	-80.697699	1.33	
3273.00	5.69	31.66	3268.09	-11.34	90.89	104.35	39.688941	-80.697682	0.52	
3366.00	5.84	38.25	3360.62	-9.85	98.53	109.70	39.688962	-80.697663	0.73	
3459.00	5.23	34.69	3453.19	-8.65	105.74	115.04	39.688982	-80.697644	0.75	
3552.00	5.31	43.83	3545.80	-7.92	112.32	120.43	39.689000	-80.697625	0.91	
3645.00	6.01	51.56	3638.34	-8.51	118.46	127.23	39.689017	-80.697601	1.11	
3737.00	5.35	51.30	3729.89	-9.65	124.13	134.35	39.689032	-80.697575	0.72	
3830.00	4.92	47.29	3822.52	-10.39	129.55	140.66	39.689047	-80.697553	0.60	
3923.00	4.84	41.82	3915.18	-10.44	135.18	146.21	39.689062	-80.697533	0.51	
4013.00	4.49	43.18	4004.88	-10.21	140.58	151.15	39.689077	-80.697515	0.41	
4105.00	4.82	37.49	4096.58	-9.69	146.27	155.97	39.689093	-80.697498	0.62	
4198.00	5.62	36.19	4189.19	-8.59	153.04	161.03	39.689111	-80.697480	0.87	
4291.00	5.35	35.40	4281.77	-7.29	160.25	166.23	39.689131	-80.697462	0.30	
4384.00	4.99	33.31	4374.39	-5.86	167.17	170.97	39.689150	-80.697445	0.44	

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5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor) (Scale factor 0.999608)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° '' ''')	Longitude (° '' ''')	DLS (%/100US ft)	Comment
4476.00	4.71	31.36	4466.06	-4.26	173.74	175.13	39.689168	-80.697430	0.35	
4569.00	5.35	35.48	4558.70	-2.75	180.53	179.63	39.689186	-80.697414	0.79	
4662.00	6.60	40.24	4651.19	-1.71	188.14	185.60	39.689207	-80.697392	1.44	
4755.00	6.40	38.44	4743.60	-0.82	196.28	192.28	39.689230	-80.697369	0.31	
4847.00	6.18	34.94	4835.04	0.50	204.35	198.30	39.689252	-80.697347	0.48	
4940.00	6.59	31.32	4927.47	2.51	213.02	203.94	39.689275	-80.697327	0.62	
5030.00	6.66	35.76	5016.87	4.43	221.66	209.68	39.689299	-80.697306	0.57	
5122.00	6.59	50.01	5108.26	4.69	229.39	216.84	39.689320	-80.697281	1.78	
5212.00	6.91	60.39	5197.64	2.66	235.38	225.50	39.689337	-80.697250	1.40	
5305.00	5.81	63.47	5290.06	-0.45	240.25	234.58	39.689350	-80.697218	1.24	
5397.00	5.06	55.92	5381.65	-2.80	244.60	242.11	39.689362	-80.697191	1.12	
5490.00	5.59	51.86	5474.25	-4.23	249.70	249.07	39.689376	-80.697166	0.70	
5583.00	5.68	51.45	5566.80	-5.41	255.36	256.23	39.689391	-80.697141	0.11	
5675.00	4.47	55.54	5658.44	-6.68	260.23	262.74	39.689404	-80.697117	1.37	
5768.00	3.56	42.23	5751.21	-7.29	264.42	267.67	39.689416	-80.697100	1.39	
5861.00	3.98	42.78	5844.01	-7.11	268.92	271.81	39.689428	-80.697085	0.45	
5954.00	4.39	40.68	5936.76	-6.81	273.99	276.32	39.689442	-80.697069	0.47	
6000.00	4.63	39.52	5982.62	-6.54	276.76	278.65	39.689450	-80.697061	0.56	
6047.00	4.65	26.70	6029.47	-5.81	279.92	280.71	39.689458	-80.697053	2.20	
6093.00	6.29	357.15	6075.26	-3.41	284.11	281.42	39.689470	-80.697051	6.97	
6139.00	8.71	348.27	6120.87	1.33	290.04	280.59	39.689486	-80.697054	5.82	
6186.00	11.62	340.18	6167.13	8.53	297.97	278.26	39.689508	-80.697062	6.88	
6229.00	13.57	334.98	6209.09	17.15	306.62	274.66	39.689532	-80.697075	5.24	
6275.00	15.79	335.32	6253.59	28.04	317.20	269.76	39.689561	-80.697092	4.83	
6322.00	18.82	334.13	6298.46	41.13	329.83	263.78	39.689596	-80.697113	6.49	
6368.00	20.53	332.88	6341.77	55.76	343.69	256.87	39.689634	-80.697137	3.83	
6414.00	21.53	331.06	6384.70	71.48	358.26	249.11	39.689674	-80.697165	2.60	
6461.00	22.17	326.28	6428.33	88.41	373.18	240.01	39.689715	-80.697197	4.02	
6507.00	24.12	322.58	6470.63	106.20	387.87	229.48	39.689755	-80.697234	5.29	
6554.00	26.58	319.34	6513.10	126.18	403.47	216.79	39.689798	-80.697279	6.01	
6659.00	31.28	314.00	6604.99	176.87	440.26	181.85	39.689899	-80.697403	5.10	
6706.00	33.41	313.05	6644.69	202.01	457.57	163.61	39.689947	-80.697467	4.66	
6752.00	36.30	311.99	6682.44	228.29	475.33	144.23	39.689996	-80.697536	6.42	
6798.00	39.21	309.72	6718.81	256.39	493.73	122.92	39.690047	-80.697611	7.01	
6845.00	41.52	308.65	6754.61	286.71	512.96	99.33	39.690100	-80.697695	5.13	
6891.00	44.22	309.15	6788.33	317.87	532.61	74.98	39.690154	-80.697781	5.92	
6984.00	50.51	310.45	6851.29	386.05	576.41	22.47	39.690275	-80.697967	6.84	
7030.00	52.71	310.76	6879.85	422.03	599.88	-4.90	39.690339	-80.698064	4.81	
7077.00	55.69	310.48	6907.34	460.07	624.69	-33.84	39.690408	-80.698167	6.36	
7120.00	59.85	309.70	6930.27	496.34	648.11	-61.66	39.690472	-80.698266	9.80	
7166.00	63.66	309.35	6952.03	536.72	673.89	-92.92	39.690543	-80.698376	8.31	
7213.00	66.89	309.59	6971.69	579.25	701.02	-125.87	39.690618	-80.698493	6.89	
7259.00	70.70	309.00	6988.33	621.97	728.18	-159.05	39.690693	-80.698611	8.37	
7305.00	75.10	309.09	7001.85	665.75	755.87	-193.19	39.690769	-80.698732	9.57	
7352.00	79.95	309.00	7012.00	711.43	784.77	-228.82	39.690849	-80.698858	10.32	
7398.00	85.00	308.58	7018.02	756.82	813.32	-264.35	39.690928	-80.698984	11.02	
7491.00	87.22	309.11	7024.33	849.19	871.52	-336.61	39.691088	-80.699240	2.45	
7583.00	90.93	310.54	7025.81	940.88	930.42	-407.25	39.691250	-80.699490	4.32	
7676.00	90.62	315.11	7024.56	1033.82	993.61	-475.43	39.691425	-80.699732	4.92	
7769.00	90.55	315.45	7023.61	1126.80	1059.69	-540.87	39.691607	-80.699963	0.37	
7862.00	89.88	313.75	7023.26	1219.79	1124.99	-607.08	39.691786	-80.700198	1.96	
7952.00	89.81	308.64	7023.50	1309.64	1184.25	-674.78	39.691950	-80.700438	5.68	
8044.00	89.32	307.96	7024.20	1401.14	1241.26	-746.98	39.692107	-80.700694	0.91	
8137.00	90.37	311.02	7024.45	1493.81	1300.40	-818.74	39.692270	-80.700948	3.48	
8230.00	89.94	308.39	7024.20	1586.51	1359.80	-890.28	39.692434	-80.701201	2.87	
8323.00	89.88	307.56	7024.34	1678.95	1417.03	-963.59	39.692591	-80.701461	0.89	
8415.00	90.86	309.62	7023.75	1770.50	1474.41	-1035.50	39.692750	-80.701716	2.48	
8508.00	90.80	309.69	7022.40	1863.19	1533.75	-1107.09	39.692913	-80.701970	0.10	
8601.00	90.79	308.47	7021.11	1955.80	1592.37	-1179.27	39.693075	-80.702226	1.31	

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5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor) (Scale factor 0.999608)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100US ft)	Comment
8694.00	91.32	309.70	7019.40	2048.41	1650.99	-1251.45	39.693236	-80.702481	1.44	
8786.00	91.30	308.99	7017.30	2140.05	1709.31	-1322.58	39.693397	-80.702733	0.77	
8879.00	91.06	308.47	7015.38	2232.60	1767.48	-1395.11	39.693557	-80.702991	0.62	
8972.00	90.53	308.29	7014.09	2325.10	1825.21	-1468.01	39.693717	-80.703249	0.60	
9065.00	90.56	305.19	7013.21	2417.29	1880.84	-1542.52	39.693870	-80.703513	3.33	
9158.00	91.23	306.88	7011.75	2509.32	1935.54	-1617.71	39.694021	-80.703780	1.95	
9248.00	90.31	305.64	7010.54	2598.44	1988.76	-1690.27	39.694168	-80.704037	1.72	
9340.00	89.88	303.32	7010.39	2689.10	2040.84	-1766.11	39.694311	-80.704306	2.56	
9433.00	90.93	307.19	7009.73	2780.94	2094.51	-1842.03	39.694459	-80.704575	4.31	
9526.00	91.59	310.23	7007.69	2873.48	2152.65	-1914.58	39.694619	-80.704832	3.34	
9619.00	90.44	313.94	7006.04	2966.38	2214.96	-1983.57	39.694791	-80.705076	4.18	
9711.00	90.93	311.95	7004.94	3058.34	2277.63	-2050.91	39.694964	-80.705315	2.23	
9804.00	91.32	310.94	7003.12	3151.21	2339.17	-2120.61	39.695133	-80.705562	1.16	
9897.00	90.74	312.32	7001.44	3244.10	2400.94	-2190.10	39.695304	-80.705808	1.61	
9990.00	90.62	313.51	7000.34	3337.06	2464.26	-2258.21	39.695478	-80.706049	1.29	
10083.00	90.37	311.63	6999.54	3430.02	2527.17	-2326.69	39.695651	-80.706292	2.04	
10175.00	90.44	310.41	6998.89	3521.87	2587.55	-2396.10	39.695818	-80.706538	1.33	
10268.00	90.53	311.12	6998.10	3614.69	2648.27	-2466.54	39.695985	-80.706788	0.77	
10358.00	90.68	311.79	6997.15	3704.58	2707.85	-2533.99	39.696149	-80.707027	0.76	
10451.00	90.62	310.32	6996.09	3797.43	2768.93	-2604.11	39.696318	-80.707275	1.58	
10543.00	90.62	309.18	6995.10	3889.14	2827.75	-2674.84	39.696480	-80.707526	1.24	
10636.00	90.62	309.08	6994.09	3981.77	2886.44	-2746.97	39.696641	-80.707781	0.11	
10726.00	90.62	309.14	6993.12	4071.40	2943.21	-2816.80	39.696798	-80.708029	0.07	
10818.00	90.44	311.64	6992.27	4163.18	3002.82	-2886.87	39.696962	-80.708277	2.72	
10911.00	90.68	312.85	6991.36	4256.12	3065.33	-2955.71	39.697134	-80.708521	1.33	
11004.00	90.68	313.46	6990.25	4349.09	3128.94	-3023.55	39.697310	-80.708761	0.66	
11097.00	90.37	311.17	6989.40	4442.03	3191.54	-3092.31	39.697482	-80.709005	2.48	
11189.00	90.49	308.95	6988.71	4533.78	3250.75	-3162.72	39.697645	-80.709255	2.42	
11282.00	90.68	307.98	6987.76	4626.30	3308.59	-3235.53	39.697805	-80.709513	1.06	
11375.00	90.25	308.42	6987.01	4718.78	3366.10	-3308.61	39.697963	-80.709772	0.66	
11467.00	90.43	307.94	6986.46	4810.26	3422.97	-3380.93	39.698120	-80.710028	0.56	
11560.00	90.62	307.59	6985.61	4902.67	3479.92	-3454.45	39.698277	-80.710289	0.43	
11653.00	90.18	308.70	6984.96	4995.14	3537.36	-3527.58	39.698435	-80.710548	1.28	
11746.00	89.82	308.28	6984.96	5087.67	3595.24	-3600.37	39.698595	-80.710806	0.59	
11838.00	89.88	310.02	6985.20	5179.30	3653.32	-3671.72	39.698755	-80.711059	1.89	
11931.00	89.32	311.78	6985.85	5272.14	3714.21	-3742.01	39.698923	-80.711308	1.99	
12024.00	89.81	313.37	6986.56	5365.09	3777.13	-3810.49	39.699096	-80.711551	1.79	
12117.00	89.82	312.57	6986.86	5458.07	3840.52	-3878.54	39.699271	-80.711792	0.86	
12206.00	90.00	313.67	6987.00	5547.05	3901.35	-3943.50	39.699438	-80.712022	1.25	
12299.00	90.09	313.23	6986.92	5640.04	3965.31	-4011.01	39.699614	-80.712261	0.48	
12389.00	90.00	313.86	6986.85	5730.03	4027.31	-4076.25	39.699785	-80.712492	0.71	
12478.00	90.06	313.11	6986.81	5819.03	4088.56	-4140.82	39.699954	-80.712721	0.85	
12571.00	89.56	310.59	6987.11	5911.94	4150.60	-4210.09	39.700125	-80.712966	2.76	
12664.00	89.88	307.90	6987.57	6004.57	4209.43	-4282.11	39.700287	-80.713222	2.91	
12705.00	90.12	307.43	6987.57	6045.30	4234.48	-4314.56	39.700356	-80.713337	1.29	Last WFT SVY
12728.00	90.12	307.43	6987.52	6068.14	4248.46	-4332.83	39.700394	-80.713402	0.00	PTB

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