



Southwestern Energy Franz Thoman OHI 205H Surveys Off to 24495ft MD Survey Geodetic Report (Def Survey)



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JAN 29 2021

WV Department of Environmental Protection

Report Date: March 16, 2020 - 01:56 PM
Client: Southwestern Energy
Field: WV Ohio County (NAD 83 UTM 17N)
Structure / Slot: 205H
Well: Franz Thoman OHI 205H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Southwestern Energy Franz Thoman OHI 205H Surveys Off to 24495ft MD
Survey Date: February 18, 2020
Tort / AHD / DDM / ERD Ratio: 360.303 / 20058.280 ft / 7.476 / 3.409
Coordinate Reference System: NAD83 UTM Zone 17N US Feet
Location Lat / Long: N 40° 42' 14.160" W 80° 38' 35.27640"
Location Grid N/E UTM: N 14576696.209 NUS, E 1735500.110 NUS
CRS Grid Convergence Angle: 0.2193 \*
Grid Scale Factor: 0.99961034
Version / Patch: 2.10.794.0
Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 343.490 \* (Grid North)
Vertical Section Origin: 0.000 N, 0.000 N
TVD Reference Datum: KB
TVD Reference Elevation: 1163.300 ft above MSL
Seabed / Ground Elevation: 1137.300 ft above MSL
Magnetic Declination: -8.047 \*
Total Gravity Field Strength: 996.3702mg (9.00665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 52361.432 nT
Magnetic Dip Angle: 67.294 \*
Declination Date: February 18, 2020
Magnetic Declination Model: HDGM 2019
North Reference: Grid North
Grid Convergence Used: 0.2193 \*
Total Corr Mag North-Grid: -8.2666 \*
Local Coord Referenced To: Well Head

Table with columns: Comments, MD (ft), Incd (ft), Azim (Deg), TVD (ft), TVDSS (ft), VSEC (ft), NS (ft), EW (ft), DLS (ft), TF (ft), BR (ft), TR (ft), Northing (ft), Easting (ft), Latitude (ft), Longitude (ft), Directional (ft), Density Index. The table contains a large number of rows of survey data points.

09/10/2021

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Environmental Protection

Comments	MD	NS	EW	LS	TR	Northing	Easting	Latitude	Longitude	Directional
	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	Index
	7850.00	90.50	342.39	5473.62	1086.79	1966.58	760.69	1.22	90.13	0.00
	814.00	90.06	342.38	5470.24	1252.44	1966.58	760.69	1.22	90.13	0.00
	8406.00	90.11	342.47	5470.41	1244.63	1966.58	760.69	1.22	90.13	0.00
	8489.00	90.22	342.66	5470.14	1237.81	1966.58	760.69	1.22	90.13	0.00
	8685.00	90.28	343.17	5469.91	1230.99	1966.58	760.69	1.22	90.13	0.00
	8777.00	90.11	343.15	5469.32	1224.11	1966.58	760.69	1.22	90.13	0.00
	8870.00	90.28	342.36	5469.01	1217.29	1966.58	760.69	1.22	90.13	0.00
	8883.00	90.28	342.88	5468.55	1210.47	1966.58	760.69	1.22	90.13	0.00
	9050.00	90.50	343.50	5467.92	1203.65	1966.58	760.69	1.22	90.13	0.00
	9148.00	90.78	343.71	5467.29	1196.83	1966.58	760.69	1.22	90.13	0.00
	9240.00	90.39	342.01	5466.95	1190.01	1966.58	760.69	1.22	90.13	0.00
	9300.00	90.28	342.58	5466.40	1183.19	1966.58	760.69	1.22	90.13	0.00
	9426.00	90.45	343.04	5465.84	1176.37	1966.58	760.69	1.22	90.13	0.00
	9518.00	90.67	343.24	5465.29	1169.55	1966.58	760.69	1.22	90.13	0.00
	9611.00	90.39	343.11	5464.73	1162.73	1966.58	760.69	1.22	90.13	0.00
	9704.00	90.67	343.12	5464.18	1155.91	1966.58	760.69	1.22	90.13	0.00
	9796.00	90.90	345.56	5463.63	1149.09	1966.58	760.69	1.22	90.13	0.00
	9889.00	90.73	344.61	5463.08	1142.27	1966.58	760.69	1.22	90.13	0.00
	9982.00	90.62	345.81	5462.53	1135.45	1966.58	760.69	1.22	90.13	0.00
	10074.00	90.84	343.59	5461.98	1128.63	1966.58	760.69	1.22	90.13	0.00
	10167.00	90.90	346.46	5461.43	1121.81	1966.58	760.69	1.22	90.13	0.00
	10260.00	90.50	345.55	5460.88	1115.00	1966.58	760.69	1.22	90.13	0.00
	10353.00	90.67	345.49	5460.33	1108.18	1966.58	760.69	1.22	90.13	0.00
	10445.00	90.78	346.11	5459.78	1101.37	1966.58	760.69	1.22	90.13	0.00
	10538.00	90.90	345.67	5459.23	1094.55	1966.58	760.69	1.22	90.13	0.00
	10631.00	90.84	345.22	5458.68	1087.73	1966.58	760.69	1.22	90.13	0.00
	10723.00	90.67	342.36	5458.13	1080.91	1966.58	760.69	1.22	90.13	0.00
	10816.00	90.90	343.55	5457.58	1074.10	1966.58	760.69	1.22	90.13	0.00
	10909.00	90.45	342.48	5457.03	1067.28	1966.58	760.69	1.22	90.13	0.00
	11001.00	90.62	342.88	5456.48	1060.47	1966.58	760.69	1.22	90.13	0.00
	11094.00	90.67	342.18	5455.93	1053.65	1966.58	760.69	1.22	90.13	0.00
	11187.00	90.56	344.67	5455.38	1046.84	1966.58	760.69	1.22	90.13	0.00
	11279.00	90.73	342.33	5454.83	1040.02	1966.58	760.69	1.22	90.13	0.00
	11372.00	90.67	341.80	5454.28	1033.21	1966.58	760.69	1.22	90.13	0.00
	11465.00	90.73	344.56	5453.73	1026.40	1966.58	760.69	1.22	90.13	0.00
	11558.00	90.67	344.26	5453.18	1019.58	1966.58	760.69	1.22	90.13	0.00
	11649.00	90.73	341.52	5452.63	1012.77	1966.58	760.69	1.22	90.13	0.00
	11742.00	90.79	343.42	5452.08	1005.95	1966.58	760.69	1.22	90.13	0.00
	11834.00	90.67	343.72	5451.53	999.14	1966.58	760.69	1.22	90.13	0.00
	11927.00	90.84	343.35	5450.98	992.32	1966.58	760.69	1.22	90.13	0.00
	12019.00	90.90	343.96	5450.43	985.51	1966.58	760.69	1.22	90.13	0.00
	12112.00	90.67	344.91	5449.88	978.70	1966.58	760.69	1.22	90.13	0.00
	12204.00	90.80	342.79	5449.33	971.88	1966.58	760.69	1.22	90.13	0.00
	12297.00	91.06	343.13	5448.78	965.07	1966.58	760.69	1.22	90.13	0.00
	12390.00	90.62	343.95	5448.23	958.25	1966.58	760.69	1.22	90.13	0.00
	12477.00	90.90	344.42	5447.68	951.44	1966.58	760.69	1.22	90.13	0.00
	12568.00	90.78	343.17	5447.13	944.62	1966.58	760.69	1.22	90.13	0.00
	12661.00	90.67	344.22	5446.58	937.81	1966.58	760.69	1.22	90.13	0.00
	12754.00	90.78	343.72	5446.03	931.00	1966.58	760.69	1.22	90.13	0.00
	12846.00	90.67	343.67	5445.48	924.18	1966.58	760.69	1.22	90.13	0.00
	12937.00	90.73	342.98	5444.93	917.37	1966.58	760.69	1.22	90.13	0.00
	13029.00	91.01	343.15	5444.38	910.55	1966.58	760.69	1.22	90.13	0.00
	13121.00	90.78	342.78	5443.83	903.74	1966.58	760.69	1.22	90.13	0.00
	13213.00	90.84	343.34	5443.28	896.92	1966.58	760.69	1.22	90.13	0.00
	13305.00	90.95	343.91	5442.73	890.11	1966.58	760.69	1.22	90.13	0.00
	13398.00	90.84	344.27	5442.18	883.30	1966.58	760.69	1.22	90.13	0.00
	13489.00	90.62	343.73	5441.63	876.48	1966.58	760.69	1.22	90.13	0.00
	13578.00	90.80	342.79	5441.08	869.67	1966.58	760.69	1.22	90.13	0.00
	13667.00	90.91	344.26	5440.53	862.85	1966.58	760.69	1.22	90.13	0.00
	13757.00	90.12	343.23	5440.00	856.04	1966.58	760.69	1.22	90.13	0.00
	13846.00	90.95	343.67	5439.45	849.22	1966.58	760.69	1.22	90.13	0.00
	13939.00	91.46	343.72	5438.90	842.41	1966.58	760.69	1.22	90.13	0.00
	14029.00	91.06	342.86	5438.35	835.60	1966.58	760.69	1.22	90.13	0.00
	14119.00	91.06	344.05	5437.80	828.78	1966.58	760.69	1.22	90.13	0.00
	14209.00	90.67	343.37	5437.25	821.97	1966.58	760.69	1.22	90.13	0.00
	14297.00	90.84	344.07	5436.70	815.15	1966.58	760.69	1.22	90.13	0.00
	14385.00	90.67	344.41	5436.15	808.34	1966.58	760.69	1.22	90.13	0.00
	14477.00	90.39	343.12	5435.60	801.52	1966.58	760.69	1.22	90.13	0.00
	14568.00	90.62	344.32	5435.05	794.71	1966.58	760.69	1.22	90.13	0.00
	14659.00	90.45	344.74	5434.50	787.90	1966.58	760.69	1.22	90.13	0.00
	14749.00	90.67	343.72	5433.95	781.08	1966.58	760.69	1.22	90.13	0.00
	14838.00	90.78	344.06	5433.40	774.27	1966.58	760.69	1.22	90.13	0.00
	14931.00	90.62	343.57	5432.85	767.45	1966.58	760.69	1.22	90.13	0.00
	15023.00	90.67	342.75	5432.30	760.64	1966.58	760.69	1.22	90.13	0.00
	15115.00	90.67	343.14	5431.75	753.82	1966.58	760.69	1.22	90.13	0.00
	15207.00	90.67	342.85	5431.20	747.01	1966.58	760.69	1.22	90.13	0.00
	15300.00	90.84	343.39	5430.65	740.19	1966.58	760.69	1.22	90.13	0.00
	15401.00	90.84	342.52	5430.10	733.38	1966.58	760.69	1.22	90.13	0.00
	15494.00	90.67	344.06	5429.55	726.56	1966.58	760.69	1.22	90.13	0.00
	15581.00	90.67	344.27	5429.00	719.75	1966.58	760.69	1.22	90.13	0.00
	15665.00	90.73	343.63	5428.45	712.93	1966.58	760.69	1.22	90.13	0.00
	15750.00	90.73	342.29	5427.90	706.12	1966.58	760.69	1.22	90.13	0.00
	15835.00	90.62	343.47	5427.35	699.30	1966.58	760.69	1.22	90.13	0.00
	15920.00	90.67	342.98	5426.80	692.49	1966.58	760.69	1.22	90.13	0.00
	16004.00	90.62	343.49	5426.25	685.67	1966.58	760.69	1.22	90.13	0.00
	16139.00	90.67	343.22	5425.70	678.86	1966.58	760.69	1.22	90.13	0.00
	16254.00	90.67	345.71	5425.15	672.04	1966.58	760.69	1.22	90.13	0.00
	16348.00	90.78	345.81	5424.60	665.22	1966.58	760.69	1.22	90.13	0.00
	16443.00	90.73	344.96	5424.05	658.41	1966.58	760.69	1.22	90.13	0.00
	16537.00	90.67	345.12	5423.50	651.59	1966.58	760.69	1.22	90.13	0.00
	16632.00	90.95	342.25	5422.95	644.78	1966.58	760.69	1.22	90.13	0.00
	16726.00	91.06	344.03	5422.40	637.96	1966.58	760.69	1.22	90.13	0.00
	16821.00	91.01	344.22	5421.85	631.15	1966.58	760.69	1.22	90.13	0.00
	16915.00	91.01	346.40	5421.30	624.33	1966.58	760.69	1.22	90.13	0.00
	17010.00	90.38	344.72	5420.75	617.52	1966.58	760.69	1.22	90.13	0.00
	17105.00	90.62	344.25	5420.20	610.70	1966.58	760.69	1.22	90.13	0.00
	17199.00	90.62	343.90	5419.65	603.89	1966.58	760.69	1.22	90.13	0.00
	17294.00	90.50	344.93	5419.10	597.07	1966.58	760.69	1.22	90.13	0.00
	17389.00	90.22	343.28	5418.55	590.26	1966.58	760.69	1.22	90.13	0.00
	17483.00	90.11	345.20	5418.00	583.44	1966.58	760.69	1.22	90.13	0.00
	17578.00	90.45	341.96	5417.45	576.63	1966.58	760.69	1.22	90.13	0.00
	17673.00	90.00	342.37	5416.90	569.81	1966.58	760.69	1.22	90.13	0.00
	17767.00	90.39	341.82	5416.35	563.00	1966.58	760.69	1.22	90.13	0.00
	17862.00	90.45	342.10	5415.80	556.18	1966.58	760.69	1.22	90.13	0.00

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft)	TF (ft)	BR (ft)	TR (ft)	Northing (ft)	Easting (ft)	Latitude (°)	Longitude (°)	Directional Difficulty Index
18619.00	90.62	340.64	5750.50	4587.20	12454.69	12305.77	-2308.38	1.66	97.07R	0.00	-1.66	14588997.16	1733191.84	40.17050629	-80.66786369	7.10	
18714.00	90.45	342.01	5749.61	4586.31	12546.62	12385.76	-2338.79	1.45	88.18R	-0.18	1.44	14589087.12	1733181.23	40.17075663	-80.66820153	7.11	
18809.00	90.50	345.50	5748.82	4585.52	12644.60	12466.95	-2368.36	3.67	132.46R	0.05	3.67	14589176.27	1733174.67	40.17107222	-80.66850538	7.12	
18904.00	90.28	345.76	5748.18	4584.88	12739.53	12578.98	-2398.94	0.36	79.84L	-0.23	0.27	14589270.26	1733111.11	40.17126007	-80.66817852	7.13	
18989.00	90.67	343.56	5747.40	4584.10	12833.50	12669.62	-2414.81	2.38	106.55R	0.41	-2.34	14589360.87	1733065.25	40.17150914	-80.66826628	7.14	
19083.00	90.34	344.67	5746.56	4583.26	12928.49	12760.99	-2440.81	1.22	124.08R	-0.35	1.17	14589453.20	1733020.26	40.17176200	-80.66835810	7.14	
19188.00	90.11	345.01	5746.19	4582.89	13023.46	12852.85	-2465.85	0.43	79.47L	-0.24	0.36	14589543.85	1733035.43	40.17201216	-80.66844577	7.15	
19282.00	90.45	343.18	5745.73	4582.43	13117.46	12943.08	-2491.41	1.98	90L	0.36	-1.95	14589634.22	1733009.68	40.17226056	-80.66853674	7.16	
19377.00	90.45	342.63	5744.98	4581.68	13212.44	13033.88	-2519.33	0.58	88.85R	0.00	-0.56	14589724.98	1732981.76	40.17251009	-80.66862855	7.16	
19472.00	90.50	345.15	5744.19	4580.89	13307.43	13125.13	-2548.69	2.65	81.14L	0.05	2.65	14589815.20	1732955.42	40.17276066	-80.66872055	7.17	
19568.00	90.62	344.38	5743.27	4579.97	13401.40	13215.83	-2570.39	0.83	90L	0.13	-0.82	14589906.86	1732930.73	40.17301006	-80.66881572	7.18	
19661.00	90.62	343.19	5742.25	4578.95	13496.39	13307.04	-2596.82	1.26	90R	0.00	-1.26	14589998.03	1732904.20	40.17326071	-80.66890945	7.19	
19756.00	90.62	344.17	5741.22	4577.92	13591.38	13398.20	-2623.83	1.04	58.08R	0.00	-1.04	14590089.16	1732877.51	40.17351122	-80.66900379	7.19	
19851.00	90.95	344.70	5739.92	4576.62	13686.36	13489.71	-2649.12	0.86	67.33L	0.35	0.56	14590180.69	1732852.03	40.17376267	-80.66909878	7.20	
19945.00	91.01	343.41	5738.31	4575.01	13780.34	13580.08	-2674.93	1.37	96.81R	0.08	-1.37	14590270.97	1732826.22	40.17401399	-80.66919486	7.20	
20040.00	90.90	344.33	5736.73	4573.43	13875.33	13671.32	-2701.32	0.88	99.49L	-0.12	0.97	14590362.16	1732799.83	40.17426513	-80.66929188	7.21	
20135.00	90.84	343.97	5735.28	4571.98	13970.31	13762.70	-2727.27	0.38	100.22R	-0.08	-0.38	14590453.32	1732773.91	40.17451633	-80.66938979	7.21	
20229.00	90.73	344.58	5734.00	4570.70	14064.29	13853.17	-2752.74	0.68	85.46L	-0.12	0.68	14590543.96	1732748.45	40.17476744	-80.66948974	7.22	
20324.00	90.95	341.78	5732.80	4569.30	14158.27	13944.09	-2778.22	2.98	100.29R	0.23	-2.95	14590634.84	1732723.98	40.17501828	-80.66958988	7.23	
20419.00	90.67	343.32	5729.93	4566.63	14248.22	14034.37	-2803.69	0.83	90R	-0.15	0.81	14590724.98	1732699.43	40.17526937	-80.66969127	7.24	
20513.00	90.67	344.94	5728.82	4565.52	14343.20	14125.74	-2829.87	1.71	91.77L	0.00	1.71	14590815.20	1732674.86	40.17552066	-80.66979491	7.24	
20609.00	90.62	343.19	5727.80	4564.50	14438.18	14216.65	-2855.35	3.71	90R	-0.12	-3.71	14590906.86	1732650.31	40.17577211	-80.66989965	7.25	
20703.00	90.56	345.50	5726.88	4563.58	14533.16	14308.02	-2881.10	1.49	89.28L	0.00	1.49	14591007.31	1732625.82	40.17602371	-80.67000549	7.26	
20797.00	90.62	340.53	5725.90	4562.60	14628.12	14400.54	-2907.45	5.34	90R	0.06	-5.23	14591107.10	1732601.45	40.17627550	-80.67011376	7.26	
20892.00	90.62	344.65	5724.88	4561.58	14723.06	14493.73	-2933.96	0.38	63.43L	0.00	0.38	14591207.23	1732577.03	40.17652752	-80.67022419	7.27	
20987.00	90.78	344.33	5723.72	4560.47	14818.06	14588.77	-2960.37	4.38	78.64R	0.17	-4.34	14591307.73	1732552.92	40.17677974	-80.67033827	7.29	
21081.00	90.95	345.20	5722.29	4558.96	14913.02	14680.42	-2987.33	0.93	81.04L	0.18	0.92	14591408.84	1732529.77	40.17703228	-80.67045619	7.30	
21176.00	91.12	344.12	5720.59	4557.29	15008.01	14772.64	-3014.19	1.16	99.18L	0.18	-1.15	14591510.44	1732506.11	40.17728502	-80.67057803	7.30	
21270.00	91.07	343.81	5718.78	4555.48	15103.00	14864.94	-3041.43	0.33	94.88R	-0.05	0.33	14591613.70	1732482.89	40.17753797	-80.67070463	7.31	
21365.00	91.01	344.59	5717.05	4553.75	15208.94	14958.33	-3068.29	0.82	67.82R	-0.06	0.82	14591718.05	1732459.44	40.17779111	-80.67083607	7.31	
21460.00	91.23	345.13	5715.21	4551.81	15308.90	15052.45	-3095.63	0.82	99.74L	0.23	0.57	14591814.74	1732436.36	40.17804856	-80.67097341	7.32	
21554.00	91.01	343.85	5713.36	4550.06	15408.86	15146.58	-3123.52	1.37	90R	-0.23	-1.35	14591912.22	1732413.11	40.17831111	-80.67111668	7.32	
21649.00	91.01	345.27	5711.08	4548.38	15508.83	15240.85	-3151.97	0.88	93.28L	0.00	1.49	14592010.74	1732389.83	40.17857874	-80.67125619	7.33	
21744.00	90.95	344.23	5710.07	4546.77	15608.79	15335.20	-3180.24	1.11	69.44L	-0.06	-1.11	14592109.38	1732366.12	40.17885111	-80.67140363	7.33	
21839.00	91.01	344.07	5708.45	4545.15	15708.77	15430.58	-3208.18	0.88	86.24R	0.06	-0.17	14592207.97	1732342.95	40.17912811	-80.67155664	7.34	
21934.00	91.12	345.75	5706.69	4543.38	15808.72	15526.01	-3236.33	1.77	84.11L	0.12	1.77	14592306.61	1732319.47	40.17940966	-80.67171493	7.35	
22029.00	91.12	343.61	5704.87	4541.37	15908.68	15621.42	-3264.74	2.29	105.79R	0.23	-2.28	14592405.39	1732296.65	40.17969609	-80.67187879	7.35	
22124.00	91.23	344.00	5702.54	4539.24	16008.55	15716.83	-3293.23	0.43	101.11R	-0.12	0.41	14592504.36	1732273.16	40.18000083	-80.67204978	7.36	
22219.00	91.12	344.56	5700.81	4537.31	16108.42	15812.24	-3321.69	0.81	70.92L	-0.12	0.80	14592603.59	1732249.72	40.18031281	-80.67222841	7.36	
22314.00	91.40	343.75	5698.52	4535.22	16208.39	15907.65	-3350.22	0.90	163.81L	0.29	-0.85	14592703.07	1732226.40	40.18063208	-80.67241490	7.37	
22409.00	91.23	343.70	5696.34	4533.04	16308.24	16003.06	-3378.73	0.19	83.41R	-0.18	-0.05	14592802.85	1732202.92	40.18095701	-80.67260841	7.37	
22504.00	91.29	344.22	5694.27	4530.97	16408.09	16108.47	-3407.24	0.56	70.34L	0.06	0.55	14592902.84	1732179.24	40.18128769	-80.67280968	7.38	
22599.00	91.34	344.08	5692.09	4528.78	16507.94	16213.88	-3435.74	0.16	3.38R	0.05	-0.15	14593003.07	1732155.11	40.18162355	-80.67301879	7.39	
22694.00	91.05	344.11	5689.45	4526.15	16607.79	16319.29	-3464.25	0.54	123.97L	0.54	0.03	14593103.59	1732130.30	40.18196463	-80.67323419	7.39	
22789.00	91.23	343.19	5686.92	4523.62	16707.64	16424.70	-3492.76	1.18	87.53L	-0.66	-0.80	14593204.07	1732105.85	40.18231111	-80.67345664	7.40	
22884.00	91.29	341.79	5684.83	4521.53	16807.49	16530.11	-3521.27	0.47	125.31R	0.06	-1.47	14593304.63	1732081.29	40.18265811	-80.67368511	7.40	
22979.00	91.12	342.03	5682.83	4519.33	16907.34	16635.52	-3549.78	0.31	84.87R	-0.18	0.25	14593405.39	1732056.67	40.18300511	-80.67391879	7.41	
23074.00	91.18	342.70	5680.95	4517.05	17007.19	16740.93	-3578.29	1.72	90R	0.06	0.71	14593506.16	1732031.95	40.18335211	-80.67415741	7.41	
23169.00	91.18	343.36	5679.08	4514.77	17107.04	16846.34	-3606.80	0.68	74.97L	0.00	0.68	14593607.07	1732007.24	40.18370011	-80.67440111	7.42	
23264.00	91.29	342.94	5677.21	4512.49	17206.89	16951.75	-3635.31	0.45	85.78L	0.12	-0.43	14593708.16	1731982.53	40.18404811	-80.67464988	7.42	
23359.00	91.40	341.45	5675.34	4510.21	17306.74	17057.16	-3663.82	1.59	131.35R	0.12	-1.59	14593809.32	1731957.82	40.18439511	-80.67490355	7.42	
23454.00	91.18	341.70	5673.47	4507.93	17406.59	17162.57	-3692.33	0.35	135R	-0.23	0.26	14593910.54	1731933.11	40.18474211	-80.67515222	7.43	
23549.00	90.73	342.15	5671.60	4505.72	17506.44	17267.98	-3720.84	0.67	90R	-0.47	0.47	14594011.81	1731908.40	40.18508911	-80.67540589	7.43	
23644.00	90.73	344.37	5669.73	4503.50	17606.29	17373.39	-3749.35	2.34	90.60L	0.00	2.34	14594113.07	1731883.69	40.18543611	-80.67565956	7.44	
23739.00	91.23	343.48	5667.86	4501.29	17706.14	17478.80	-3777.86	1.09	78.69R	0.53	-0.85	14594214.32	1731858.98	40.18578311	-80.67591322	7.44	
23834.00	91.29	343.76	5666.11	4502.81	17806.04	17584.21	-3806.37	0.32	32.9L	0.06	0.32	14594315.57	1731834.27	40.18613011	-80.67616689	7.45	
23929.00	91.46	343.67	5664.36	4500.53	17905.94	17691.62	-3834.88	0.21	122.2L	0.18	-0.12	14594416.82	1731809.56	40.18647711	-80.67642056	7.45	
24024.00	91.12	343.13	5662.61	4498.25	18005.79	17800.03	-3863.39	0.68	75.31L	-0.36	0.57	14594518.07	173178				