

REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY	Slot	Slot 3H
Area	Brooke County, WV	Well	Margaret Corbin 3H
Field	Brooke	Wellbore	Margaret Corbin 3H AWB
Facility	Margaret Corbin Pad		

REPORT SETUP INFORMATION

Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Atenjen
Scale	0.999620	Report Generated	7/15/2019 at 1:08:58 PM
Convergence at slot	0.31° East	Database/Source file	WA_MPL_EASTERNUS_Defn/Margaret_Corbin_3H_AWP_Proj_18044_.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.09	0.84	1773743.01	14611288.54	40°13'52.371"N	80°31'20.305"W
Facility Reference Pt			1773742.17	14611288.45	40°13'52.370"N	80°31'20.316"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.478"W

WELLPATH DATUM

Calculation method	Minimum curvature	SDC 41 (RKB) to Facility Vertical Datum	1176.10ft
Horizontal Reference Pt	Slot	SDC 41 (RKB) to Mean Sea Level	1176.10ft
Vertical Reference Pt	SDC 41 (RKB)	SDC 41 (RKB) to Ground Level at Slot (Slot 3H)	26.00ft
MD Reference Pt	SDC 41 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	340.05°

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WELLPATH DATA (205 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
0.00†	0.000	324.330	0.00	0.00	0.00	0.00	1773743.01	14611288.54	40°13'52.371"N	80°31'20.305"W	0.00	0.000	0.00	0.00	0.00
26.00	0.000	324.330	26.00	0.00	0.00	0.00	1773743.01	14611288.54	40°13'52.371"N	80°31'20.305"W	0.00	0.000	0.00	0.00	0.00
50.00	0.340	324.330	50.00	0.07	0.06	-0.04	1773742.97	14611288.60	40°13'52.371"N	80°31'20.306"W	0.07	324.330	1.42	1.42	-148.62
100.00	0.440	336.510	100.00	0.40	0.35	-0.20	1773742.81	14611288.89	40°13'52.374"N	80°31'20.308"W	0.41	330.010	0.26	0.20	24.36
150.00	0.470	340.760	150.00	0.80	0.72	-0.35	1773742.66	14611289.26	40°13'52.378"N	80°31'20.310"W	0.80	334.290	0.09	0.06	8.50
200.00	0.520	340.380	200.00	1.23	1.13	-0.49	1773742.52	14611289.67	40°13'52.382"N	80°31'20.311"W	1.23	336.481	0.10	0.10	-0.76
250.00	0.430	334.080	249.99	1.65	1.51	-0.65	1773742.36	14611290.05	40°13'52.386"N	80°31'20.313"W	1.65	336.744	0.21	-0.18	-12.60
300.00	0.280	329.730	299.99	1.95	1.79	-0.79	1773742.22	14611290.32	40°13'52.389"N	80°31'20.315"W	1.96	336.052	0.30	-0.30	-8.70
350.00	0.110	323.600	349.99	2.12	1.93	-0.88	1773742.13	14611290.47	40°13'52.390"N	80°31'20.316"W	2.13	335.410	0.34	-0.34	-12.26
400.00	0.070	282.360	399.99	2.18	1.98	-0.94	1773742.07	14611290.51	40°13'52.390"N	80°31'20.317"W	2.19	334.515	0.15	-0.08	-82.48
450.00	0.050	58.830	449.99	2.20	2.00	-0.95	1773742.06	14611290.53	40°13'52.391"N	80°31'20.317"W	2.21	334.453	0.22	-0.04	272.94
500.00	0.100	158.030	499.99	2.16	1.97	-0.92	1773742.09	14611290.50	40°13'52.390"N	80°31'20.317"W	2.17	334.954	0.24	0.10	198.40
535.00	0.130	45.000	534.99	2.15	1.97	-0.88	1773742.13	14611290.50	40°13'52.390"N	80°31'20.316"W	2.15	335.903	0.55	0.09	-322.94
596.00	0.410	48.800	595.99	2.26	2.16	-0.67	1773742.34	14611290.69	40°13'52.392"N	80°31'20.314"W	2.26	342.851	0.46	0.46	6.23
687.00	0.870	37.470	686.99	2.75	2.92	0.00	1773743.01	14611291.46	40°13'52.400"N	80°31'20.305"W	2.92	359.983	0.52	0.51	-12.45
787.00	1.880	23.540	786.96	4.35	5.03	1.12	1773744.13	14611293.56	40°13'52.420"N	80°31'20.290"W	5.15	12.516	1.06	1.01	-13.93
869.00	3.440	37.450	868.87	6.65	8.21	3.15	1773746.16	14611296.75	40°13'52.452"N	80°31'20.264"W	8.80	20.977	2.05	1.90	16.96
959.00	3.560	12.790	958.70	10.45	13.08	5.41	1773748.42	14611301.62	40°13'52.500"N	80°31'20.234"W	14.16	22.466	1.66	0.13	-27.40
1049.00	4.050	8.140	1048.50	15.61	18.95	6.48	1773749.49	14611307.48	40°13'52.558"N	80°31'20.220"W	20.03	18.871	0.64	0.54	-5.17
1139.00	4.690	5.430	1138.24	21.73	25.76	7.28	1773750.28	14611314.29	40°13'52.625"N	80°31'20.209"W	26.77	15.772	0.75	0.71	-3.01
1229.00	4.720	1.950	1227.94	28.49	33.13	7.75	1773750.76	14611321.65	40°13'52.698"N	80°31'20.203"W	34.02	13.169	0.32	0.03	-3.87
1323.00	3.520	1.300	1321.69	34.77	39.88	7.95	1773750.96	14611328.40	40°13'52.764"N	80°31'20.200"W	40.66	11.272	1.28	-1.28	-0.69
1414.00	1.800	359.610	1412.59	38.72	44.10	8.00	1773751.01	14611332.62	40°13'52.806"N	80°31'20.199"W	44.82	10.284	1.89	-1.89	-1.86
1507.00	0.760	346.800	1505.57	40.71	46.16	7.85	1773750.86	14611334.68	40°13'52.827"N	80°31'20.201"W	46.82	9.652	1.15	-1.12	-13.77
1600.00	0.580	335.850	1598.56	41.79	47.19	7.52	1773750.52	14611335.71	40°13'52.837"N	80°31'20.205"W	47.79	9.051	0.24	-0.19	-11.77
1654.00	0.500	314.940	1652.56	42.28	47.61	7.24	1773750.25	14611336.13	40°13'52.841"N	80°31'20.208"W	48.15	8.646	0.39	-0.15	-38.72
1742.00	0.210	328.790	1740.56	42.79	48.02	6.88	1773749.89	14611336.53	40°13'52.845"N	80°31'20.213"W	48.51	8.158	0.34	-0.33	15.74
1788.00	0.290	319.450	1786.56	42.98	48.18	6.76	1773749.77	14611336.70	40°13'52.847"N	80°31'20.215"W	48.65	7.992	0.19	0.17	-20.30
1881.00	0.460	352.490	1879.56	43.56	48.73	6.56	1773749.57	14611337.24	40°13'52.852"N	80°31'20.217"W	49.17	7.671	0.29	0.18	35.53
1973.00	0.520	10.340	1971.55	44.28	49.50	6.59	1773749.60	14611338.02	40°13'52.860"N	80°31'20.217"W	49.94	7.582	0.18	0.07	19.40

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SOUTHWESTERN ENERGY	Well	Margaret Corbin 3H
Area	Wellbore	Margaret Corbin 3H AWB
Field		
Facility		

WELLPATH DATA (205 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert. Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
2065.00	0.990	123.210	2063.55	44.01	49.48	7.33	1773750.34	14611338.00	40°13'52.859"N	80°31'20.207"W	50.02	8.426	1.40	0.51	122.68
2158.00	1.760	127.280	2156.52	42.16	48.17	9.14	1773752.14	14611336.69	40°13'52.846"N	80°31'20.184"W	49.03	10.741	0.83	0.83	4.38
2250.00	1.850	122.150	2248.47	39.80	46.53	11.52	1773754.52	14611335.05	40°13'52.830"N	80°31'20.153"W	47.93	13.906	0.20	0.10	-5.58
2342.00	1.820	119.240	2340.43	37.53	45.02	14.05	1773757.06	14611333.54	40°13'52.815"N	80°31'20.121"W	47.16	17.333	0.11	-0.03	-3.16
2434.00	1.470	144.460	2432.39	35.28	43.35	16.01	1773759.02	14611331.87	40°13'52.798"N	80°31'20.096"W	46.21	20.273	0.86	-0.38	27.41
2526.00	2.320	205.180	2524.35	32.83	40.70	15.91	1773758.91	14611329.22	40°13'52.772"N	80°31'20.097"W	43.70	21.344	2.23	0.92	66.00
2618.00	1.610	226.460	2616.29	31.00	38.13	14.18	1773757.18	14611326.65	40°13'52.747"N	80°31'20.120"W	40.68	20.396	1.09	-0.77	23.13
2708.00	1.580	298.270	2706.27	31.42	37.84	12.17	1773755.17	14611326.37	40°13'52.744"N	80°31'20.146"W	39.75	17.823	2.08	-0.03	79.79
2801.00	2.040	308.670	2799.22	33.79	39.49	9.75	1773752.75	14611328.01	40°13'52.760"N	80°31'20.177"W	40.67	13.864	0.61	0.49	11.18
2894.00	0.690	340.790	2892.19	35.76	41.05	8.27	1773751.28	14611329.57	40°13'52.776"N	80°31'20.196"W	41.87	11.389	1.61	-1.45	34.54
2987.00	1.990	126.430	2985.18	34.98	40.62	9.38	1773752.39	14611329.14	40°13'52.772"N	80°31'20.181"W	41.69	13.008	2.78	1.40	156.60
3079.00	5.070	124.070	3076.99	30.36	37.39	14.04	1773757.04	14611325.91	40°13'52.740"N	80°31'20.122"W	39.94	20.577	3.35	3.35	-2.57
3172.00	6.320	136.990	3169.54	22.32	31.35	20.93	1773763.94	14611319.87	40°13'52.679"N	80°31'20.033"W	37.69	33.736	1.92	1.34	13.89
3265.00	6.920	155.540	3261.93	12.03	22.50	26.75	1773769.75	14611311.03	40°13'52.592"N	80°31'19.959"W	34.95	49.924	2.38	0.65	19.95
3360.00	9.230	163.990	3355.98	-1.28	9.97	31.22	1773774.22	14611298.50	40°13'52.468"N	80°31'19.902"W	32.77	72.292	2.73	2.43	8.89
3453.00	8.030	165.640	3447.93	-15.19	-3.49	34.89	1773777.88	14611285.04	40°13'52.334"N	80°31'19.856"W	35.06	95.721	1.32	-1.29	1.77
3546.00	4.310	152.750	3540.37	-25.12	-12.90	38.10	1773781.09	14611275.64	40°13'52.241"N	80°31'19.815"W	40.22	108.703	4.24	-4.00	-13.86
3638.00	3.050	140.200	3632.18	-30.85	-17.85	41.25	1773784.24	14611270.69	40°13'52.192"N	80°31'19.775"W	44.95	113.403	1.62	-1.37	-13.64
3731.00	4.350	147.050	3724.99	-36.62	-22.71	44.75	1773787.74	14611265.83	40°13'52.144"N	80°31'19.730"W	50.18	116.910	1.47	1.40	-6.23
3824.00	6.690	141.260	3817.55	-45.18	-29.90	50.06	1773793.05	14611258.65	40°13'52.073"N	80°31'19.662"W	58.31	120.848	2.58	2.52	-6.23
3917.00	7.000	138.180	3909.89	-55.57	-38.35	57.23	1773800.22	14611250.20	40°13'51.989"N	80°31'19.570"W	68.89	123.825	0.52	0.33	-3.31
4009.00	6.190	150.080	4001.28	-65.66	-46.82	63.44	1773806.43	14611241.73	40°13'51.905"N	80°31'19.490"W	78.85	126.431	1.72	-0.88	12.93
4102.00	5.970	151.230	4093.76	-75.38	-55.41	68.27	1773811.25	14611233.15	40°13'51.820"N	80°31'19.429"W	87.93	129.064	0.27	-0.24	1.24
4194.00	5.710	146.410	4185.28	-84.55	-63.42	73.10	1773816.09	14611225.15	40°13'51.740"N	80°31'19.367"W	96.78	130.941	0.60	-0.28	-5.24
4285.00	5.970	151.940	4275.81	-93.64	-71.36	77.83	1773820.81	14611217.20	40°13'51.661"N	80°31'19.307"W	105.60	132.516	0.68	0.29	6.08
4378.00	5.980	151.550	4368.31	-103.22	-79.89	82.42	1773825.40	14611208.68	40°13'51.577"N	80°31'19.248"W	114.78	134.108	0.04	0.01	-0.42
4470.00	5.560	150.320	4459.84	-112.35	-87.98	86.91	1773829.88	14611200.59	40°13'51.497"N	80°31'19.191"W	123.66	135.350	0.48	-0.46	-1.34
4562.00	5.260	146.710	4551.43	-120.85	-95.37	91.43	1773834.40	14611193.20	40°13'51.423"N	80°31'19.133"W	132.12	136.210	0.49	-0.33	-3.92
4655.00	6.030	147.050	4643.98	-129.75	-103.04	96.43	1773839.40	14611185.54	40°13'51.347"N	80°31'19.069"W	141.12	136.898	0.83	0.83	0.37
4747.00	7.150	155.380	4735.37	-140.17	-112.30	101.44	1773844.41	14611176.28	40°13'51.256"N	80°31'19.005"W	151.33	137.908	1.60	1.22	9.05

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4840.00	6.900	153.390	4827.67	-151.49	-122.55	106.35	1773849.32	14611166.03	40°13'51.154"N	80°31'18.942"W	162.27	139.048	0.38	-0.27	-2.14
4933.00	7.340	151.870	4919.96	-162.91	-132.79	111.66	1773854.62	14611155.80	40°13'51.053"N	80°31'18.875"W	173.49	139.941	0.51	0.47	-1.63
5026.00	7.330	148.780	5012.20	-174.61	-143.10	117.53	1773860.50	14611145.49	40°13'50.950"N	80°31'18.800"W	185.18	140.603	0.42	-0.01	-3.32
5117.00	7.610	153.670	5102.43	-186.29	-153.46	123.21	1773866.18	14611135.13	40°13'50.848"N	80°31'18.727"W	196.81	141.240	0.76	0.31	5.37
5210.00	7.640	153.740	5194.60	-198.56	-164.53	128.68	1773871.64	14611124.07	40°13'50.738"N	80°31'18.657"W	208.87	141.970	0.03	0.03	0.08
5306.00	5.250	151.080	5289.99	-209.24	-174.10	133.63	1773876.59	14611114.51	40°13'50.643"N	80°31'18.594"W	219.47	142.492	2.51	-2.49	-2.77
5398.00	0.030	135.930	5381.86	-213.42	-177.80	135.68	1773878.64	14611110.81	40°13'50.607"N	80°31'18.568"W	223.66	142.652	5.68	-5.67	-16.47
5490.00	3.470	330.510	5473.80	-210.70	-175.39	134.33	1773877.29	14611113.21	40°13'50.630"N	80°31'18.585"W	220.92	142.553	3.80	3.74	-179.80
5582.00	11.280	327.330	5564.97	-199.16	-165.38	128.09	1773871.05	14611123.22	40°13'50.730"N	80°31'18.665"W	209.18	142.241	8.50	8.49	-3.46
5675.00	17.530	332.410	5655.01	-176.38	-145.29	116.68	1773859.65	14611143.30	40°13'50.929"N	80°31'18.811"W	186.34	141.232	6.85	6.72	5.46
5768.00	25.940	331.150	5741.32	-142.34	-115.01	100.35	1773843.32	14611173.58	40°13'51.229"N	80°31'19.019"W	152.63	138.893	9.06	9.04	-1.35
5861.00	34.650	328.910	5821.54	-96.22	-74.47	76.84	1773819.82	14611214.10	40°13'51.631"N	80°31'19.320"W	107.00	134.103	9.44	9.37	-2.41
5953.00	43.240	332.740	5893.04	-39.18	-23.96	48.84	1773791.83	14611264.59	40°13'52.131"N	80°31'19.677"W	54.40	116.128	9.69	9.34	4.16
6045.00	52.330	334.210	5954.79	28.44	36.97	18.50	1773761.51	14611325.49	40°13'52.735"N	80°31'20.064"W	41.34	26.587	9.95	9.88	1.60
6138.00	61.000	333.400	6005.85	105.60	106.61	-15.79	1773727.23	14611395.11	40°13'53.425"N	80°31'20.501"W	107.77	351.577	9.35	9.32	-0.87
6230.00	69.750	335.470	6044.15	188.75	182.00	-51.79	1773691.24	14611470.47	40°13'54.172"N	80°31'20.960"W	189.22	344.115	9.73	9.51	2.25
6323.00	78.820	339.660	6069.33	278.07	264.67	-85.85	1773657.20	14611553.10	40°13'54.991"N	80°31'21.394"W	278.24	342.029	10.67	9.75	4.51
6416.00	89.170	341.730	6079.04	370.43	351.84	-116.36	1773626.69	14611640.24	40°13'55.854"N	80°31'21.781"W	370.58	341.699	11.35	11.13	2.23
6508.00	90.800	340.280	6079.07	462.41	438.82	-146.31	1773596.76	14611727.19	40°13'56.715"N	80°31'22.161"W	462.57	341.561	2.37	1.77	-1.58
6601.00	90.220	339.750	6078.24	555.40	526.22	-178.09	1773564.99	14611814.55	40°13'57.580"N	80°31'22.565"W	555.54	341.302	0.84	-0.62	-0.57
6693.00	90.340	340.600	6077.79	647.40	612.76	-209.29	1773533.80	14611901.07	40°13'58.437"N	80°31'22.961"W	647.52	341.142	0.93	0.13	0.92
6786.00	90.340	340.650	6077.24	740.40	700.49	-240.14	1773502.96	14611988.76	40°13'59.306"N	80°31'23.353"W	740.51	341.077	0.05	0.00	0.05
6879.00	90.400	342.170	6076.64	833.36	788.64	-269.79	1773473.32	14612076.87	40°14'00.178"N	80°31'23.729"W	833.51	341.114	1.64	0.06	1.63
6971.00	90.430	339.570	6075.97	925.35	875.55	-299.94	1773443.19	14612163.75	40°14'01.039"N	80°31'24.112"W	925.50	341.090	2.83	0.03	-2.83
7062.00	89.970	336.680	6075.65	1016.28	959.99	-333.84	1773409.30	14612248.16	40°14'01.875"N	80°31'24.543"W	1016.38	340.825	3.22	-0.51	-3.18
7154.00	90.400	337.190	6075.36	1108.15	1044.63	-369.88	1773373.27	14612332.77	40°14'02.713"N	80°31'25.002"W	1108.18	340.502	0.73	0.47	0.55
7247.00	90.430	336.860	6074.68	1201.01	1130.25	-406.18	1773336.98	14612418.36	40°14'03.561"N	80°31'25.464"W	1201.02	340.233	0.36	0.03	-0.35
7340.00	90.370	337.470	6074.03	1293.89	1215.96	-442.27	1773300.91	14612504.03	40°14'04.410"N	80°31'25.923"W	1293.89	340.013	0.66	-0.06	0.66
7432.00	90.340	339.330	6073.46	1385.85	1301.49	-476.14	1773267.06	14612589.53	40°14'05.257"N	80°31'26.354"W	1385.85	339.906	2.02	-0.03	2.02
7525.00	90.650	339.900	6072.66	1478.84	1388.67	-508.53	1773234.68	14612676.67	40°14'06.120"N	80°31'26.766"W	1478.85	339.887	0.70	0.33	0.61



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Actual Wellpath Report

Margaret Corbin 3H AWP Proj: 18044'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot 3H
SOUTHWESTERN ENERGY	Well	Margaret Corbin 3H
Area	Wellbore	Margaret Corbin 3H AWB
Field		
Facility		

WELLPATH DATA (205 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]
7618.00	90.770	340.310	6071.51	1571.84	1476.11	-540.17	1773203.04	14612764.08	40°14'06.986"N	80°31'27.168"W	1571.84	339.900	0.46	0.13	0.44
7708.00	90.740	340.520	6070.32	1661.83	1560.89	-570.34	1773172.89	14612848.84	40°14'07.826"N	80°31'27.551"W	1661.83	339.928	0.24	-0.03	0.23
7800.00	90.830	341.460	6069.06	1753.80	1647.87	-600.30	1773142.93	14612935.78	40°14'08.687"N	80°31'27.931"W	1753.81	339.984	1.03	0.10	1.02
7893.00	90.830	342.200	6067.71	1846.75	1736.22	-629.30	1773113.95	14613024.09	40°14'09.561"N	80°31'28.299"W	1846.75	340.077	0.80	0.00	0.80
7985.00	90.710	342.890	6066.48	1938.65	1823.98	-656.90	1773086.37	14613111.82	40°14'10.430"N	80°31'28.648"W	1938.66	340.194	0.76	-0.13	0.75
8078.00	90.710	341.580	6065.32	2031.58	1912.53	-685.27	1773058.00	14613200.34	40°14'11.306"N	80°31'29.008"W	2031.59	340.287	1.41	0.00	-1.41
8171.00	90.770	342.570	6064.12	2124.51	2001.01	-713.89	1773029.39	14613288.78	40°14'12.182"N	80°31'29.371"W	2124.54	340.365	1.07	0.06	1.06
8263.00	90.740	343.170	6062.91	2216.39	2088.92	-740.98	1773002.31	14613376.66	40°14'13.052"N	80°31'29.714"W	2216.45	340.469	0.65	-0.03	0.65
8356.00	90.770	343.040	6061.69	2309.25	2177.90	-768.01	1772975.29	14613465.60	40°14'13.933"N	80°31'30.057"W	2309.35	340.575	0.14	0.03	-0.14
8448.00	90.770	342.650	6060.45	2401.13	2265.80	-795.14	1772948.17	14613553.47	40°14'14.803"N	80°31'30.401"W	2401.27	340.662	0.42	0.00	-0.42
8541.00	90.800	342.360	6059.18	2494.04	2354.49	-823.10	1772920.23	14613642.13	40°14'15.681"N	80°31'30.755"W	2494.21	340.731	0.31	0.03	-0.31
8634.00	90.830	342.400	6057.85	2586.95	2443.11	-851.25	1772892.09	14613730.72	40°14'16.558"N	80°31'31.112"W	2587.17	340.790	0.05	0.03	0.04
8726.00	90.860	341.890	6056.50	2678.88	2530.67	-879.45	1772863.90	14613818.25	40°14'17.425"N	80°31'31.469"W	2679.13	340.837	0.56	0.03	-0.55
8819.00	90.890	341.470	6055.08	2771.83	2618.95	-908.68	1772834.68	14613906.49	40°14'18.299"N	80°31'31.840"W	2772.11	340.865	0.45	0.03	-0.45
8912.00	90.580	341.320	6053.88	2864.80	2707.08	-938.35	1772805.02	14613994.59	40°14'19.171"N	80°31'32.217"W	2865.10	340.882	0.37	-0.33	-0.16
9004.00	90.860	341.270	6052.73	2956.77	2794.22	-967.85	1772775.53	14614081.69	40°14'20.034"N	80°31'32.591"W	2957.09	340.895	0.31	0.30	-0.05
9097.00	90.890	342.060	6051.31	3049.72	2882.48	-997.10	1772746.29	14614169.92	40°14'20.908"N	80°31'32.962"W	3050.07	340.919	0.85	0.03	0.85
9190.00	90.740	342.680	6049.98	3142.63	2971.11	-1025.26	1772718.14	14614258.51	40°14'21.785"N	80°31'33.319"W	3143.03	340.962	0.69	-0.16	0.67
9282.00	90.860	342.610	6048.70	3234.53	3058.91	-1052.70	1772690.71	14614346.28	40°14'22.654"N	80°31'33.667"W	3234.98	341.009	0.15	0.13	-0.08
9374.00	90.920	340.720	6047.27	3326.48	3146.22	-1081.64	1772661.78	14614433.56	40°14'23.518"N	80°31'34.034"W	3326.96	341.028	2.06	0.07	-2.05
9466.00	90.800	338.490	6045.89	3418.46	3232.48	-1113.70	1772629.74	14614519.75	40°14'24.372"N	80°31'34.441"W	3418.92	340.989	2.43	-0.13	-2.42
9559.00	90.920	338.560	6044.49	3511.42	3318.98	-1147.74	1772595.71	14614606.25	40°14'25.229"N	80°31'34.874"W	3511.82	340.924	0.15	0.13	0.08
9652.00	90.920	337.990	6043.00	3604.36	3405.36	-1182.16	1772561.30	14614692.60	40°14'26.084"N	80°31'35.312"W	3604.71	340.856	0.61	0.00	-0.61
9743.00	90.890	337.710	6041.56	3695.28	3489.63	-1216.46	1772527.01	14614776.84	40°14'26.919"N	80°31'35.749"W	3695.58	340.782	0.31	-0.03	-0.31
9836.00	90.830	336.890	6040.17	3788.16	3575.42	-1252.35	1772491.14	14614862.59	40°14'27.769"N	80°31'36.206"W	3788.40	340.696	0.88	-0.06	-0.88
9929.00	90.830	337.470	6038.82	3881.03	3661.13	-1288.41	1772455.09	14614948.27	40°14'28.618"N	80°31'36.665"W	3881.22	340.612	0.62	0.00	0.62
10021.00	90.860	337.590	6037.46	3972.94	3746.14	-1323.57	1772419.94	14615033.24	40°14'29.459"N	80°31'37.112"W	3973.08	340.541	0.13	0.03	0.13
10114.00	91.260	338.600	6035.74	4065.86	3832.41	-1358.26	1772385.27	14615119.48	40°14'30.314"N	80°31'37.554"W	4065.98	340.485	1.17	0.43	1.09
10207.00	91.200	339.540	6033.75	4158.83	3919.25	-1391.48	1772352.07	14615206.29	40°14'31.174"N	80°31'37.976"W	4158.93	340.453	1.01	-0.06	1.01
10300.00	91.260	340.090	6031.75	4251.81	4006.52	-1423.56	1772320.00	14615293.52	40°14'32.038"N	80°31'38.384"W	4251.90	340.439	0.59	0.06	0.59

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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot 3H
SOUTHWESTERN ENERGY	Well	Margaret Corbin 3H
Brooke County, WV	Wellbore	Margaret Corbin 3H AWB
Brooke		
Margaret Corbin Pad		

WELLPATH DATA (205 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
10392.00	91.110	340.420	6029.85	4343.79	4093.09	-1454.63	1772288.93	14615380.06	40°14'32.895"N	80°31'38.779"W	4343.88	340.435	0.39	-0.16	0.36
10485.00	91.450	340.650	6027.77	4436.76	4180.75	-1485.61	1772257.96	14615467.69	40°14'33.763"N	80°31'39.172"W	4436.86	340.438	0.44	0.37	0.25
10578.00	91.290	342.320	6025.55	4529.70	4268.91	-1515.14	1772228.45	14615555.82	40°14'34.635"N	80°31'39.547"W	4529.81	340.459	1.80	-0.17	1.80
10670.00	91.110	342.370	6023.62	4621.61	4356.56	-1543.03	1772200.56	14615643.43	40°14'35.503"N	80°31'39.900"W	4621.75	340.497	0.20	-0.20	0.05
10763.00	91.050	341.650	6021.87	4714.53	4444.99	-1571.75	1772171.86	14615731.83	40°14'36.378"N	80°31'40.265"W	4714.70	340.526	0.78	-0.06	-0.77
10856.00	91.230	341.990	6020.02	4807.47	4533.33	-1600.76	1772142.86	14615820.14	40°14'37.253"N	80°31'40.633"W	4807.65	340.551	0.41	0.19	0.37
10949.00	91.230	342.770	6018.02	4900.37	4621.95	-1628.91	1772114.72	14615908.72	40°14'38.130"N	80°31'40.990"W	4900.59	340.586	0.84	0.00	0.84
11041.00	91.260	342.930	6016.02	4992.24	4709.84	-1656.03	1772087.61	14615996.58	40°14'39.000"N	80°31'41.333"W	4992.49	340.628	0.18	0.03	0.17
11134.00	90.800	343.860	6014.35	5085.07	4798.94	-1682.60	1772061.05	14616085.65	40°14'39.882"N	80°31'41.670"W	5085.37	340.678	1.12	-0.49	1.00
11227.00	91.050	342.830	6012.85	5177.90	4888.03	-1709.25	1772034.41	14616174.70	40°14'40.764"N	80°31'42.007"W	5178.26	340.726	1.14	0.27	-1.11
11319.00	90.620	340.010	6011.51	5269.85	4975.22	-1738.56	1772005.11	14616261.85	40°14'41.627"N	80°31'42.379"W	5270.23	340.738	3.10	-0.47	-3.07
11412.00	90.740	337.830	6010.40	5362.82	5061.98	-1772.00	1771971.68	14616348.59	40°14'42.486"N	80°31'42.805"W	5363.17	340.707	2.35	0.13	-2.34
11505.00	90.860	338.080	6009.10	5455.75	5148.17	-1806.91	1771936.79	14616434.74	40°14'43.339"N	80°31'43.249"W	5456.06	340.660	0.30	0.13	0.27
11597.00	90.980	338.430	6007.63	5547.69	5233.61	-1840.99	1771902.73	14616520.15	40°14'44.186"N	80°31'43.683"W	5547.97	340.620	0.40	0.13	0.38
11690.00	91.020	339.280	6006.00	5640.66	5320.34	-1874.53	1771869.20	14616606.85	40°14'45.044"N	80°31'44.109"W	5640.91	340.591	0.91	0.04	0.91
11782.00	90.950	339.450	6004.42	5732.64	5406.42	-1906.95	1771836.79	14616692.90	40°14'45.897"N	80°31'44.521"W	5732.88	340.571	0.20	-0.08	0.18
11874.00	90.980	338.840	6002.87	5824.61	5492.38	-1939.69	1771804.06	14616778.83	40°14'46.748"N	80°31'44.938"W	5824.83	340.549	0.66	0.03	-0.66
11964.00	91.050	338.820	6001.28	5914.58	5576.30	-1972.19	1771771.57	14616862.71	40°14'47.579"N	80°31'45.351"W	5914.78	340.523	0.08	0.08	-0.02
12056.00	91.110	339.480	5999.54	6006.55	5662.26	-2004.93	1771738.85	14616948.63	40°14'48.430"N	80°31'45.767"W	6006.74	340.502	0.72	0.07	0.72
12147.00	90.980	339.160	5997.88	6097.53	5747.38	-2037.06	1771706.73	14617033.72	40°14'49.273"N	80°31'46.176"W	6097.70	340.484	0.38	-0.14	-0.35
12240.00	90.950	338.680	5996.32	6190.50	5834.14	-2070.51	1771673.29	14617120.45	40°14'50.132"N	80°31'46.601"W	6190.66	340.461	0.52	-0.03	-0.52
12333.00	91.850	339.060	5994.05	6283.45	5920.86	-2104.02	1771639.79	14617207.14	40°14'50.991"N	80°31'47.028"W	6283.59	340.437	1.05	0.97	0.41
12424.00	91.140	338.640	5991.67	6374.40	6005.70	-2136.84	1771606.98	14617291.95	40°14'51.831"N	80°31'47.445"W	6374.53	340.414	0.91	-0.78	-0.46
12517.00	91.200	339.380	5989.77	6467.36	6092.51	-2170.15	1771573.69	14617378.73	40°14'52.690"N	80°31'47.869"W	6467.48	340.394	0.80	0.06	0.80
12609.00	91.350	340.330	5987.73	6559.34	6178.86	-2201.82	1771542.03	14617465.04	40°14'53.545"N	80°31'48.271"W	6559.45	340.387	1.05	0.16	1.03
12702.00	91.350	340.380	5985.53	6652.31	6266.43	-2233.08	1771510.78	14617552.57	40°14'54.412"N	80°31'48.668"W	6652.42	340.386	0.05	0.00	0.05
12794.00	91.350	340.710	5983.37	6744.28	6353.15	-2263.72	1771480.16	14617639.26	40°14'55.271"N	80°31'49.058"W	6744.40	340.388	0.36	0.00	0.36
12886.00	91.420	340.910	5981.14	6836.25	6440.01	-2293.95	1771449.94	14617726.09	40°14'56.131"N	80°31'49.441"W	6836.37	340.394	0.23	0.08	0.22
12979.00	91.320	341.470	5978.92	6929.20	6528.02	-2323.92	1771419.97	14617814.06	40°14'57.002"N	80°31'49.822"W	6929.33	340.405	0.61	-0.11	0.60
13072.00	91.510	339.890	5976.62	7022.16	6615.75	-2354.68	1771389.23	14617901.76	40°14'57.870"N	80°31'50.213"W	7022.30	340.408	1.71	0.20	-1.70

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REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY	Slot	Slot 3H
Area	Brooke County, WV	Well	Margaret Corbin 3H
Field	Brooke	Wellbore	Margaret Corbin 3H AWB
Facility	Margaret Corbin Pad		

WELLPATH DATA (205 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]
13164.00	91.570	339.610	5974.15	7114.13	6702.03	-2386.51	1771357.41	14617988.01	40°14'58.725"N	80°31'50.617"W	7114.26	340.400	0.31	0.07	-0.30
13256.00	91.320	339.890	5971.83	7206.10	6788.32	-2418.35	1771325.59	14618074.27	40°14'59.579"N	80°31'51.022"W	7206.23	340.392	0.41	-0.27	0.30
13348.00	91.450	340.530	5969.61	7298.07	6874.86	-2449.49	1771294.46	14618160.77	40°15'00.436"N	80°31'51.418"W	7298.20	340.389	0.71	0.14	0.70
13441.00	91.140	340.700	5967.51	7391.04	6962.57	-2480.35	1771283.61	14618248.45	40°15'01.304"N	80°31'51.810"W	7391.17	340.392	0.38	-0.33	0.18
13532.00	91.140	340.830	5965.69	7482.02	7048.47	-2510.32	1771233.65	14618334.32	40°15'02.155"N	80°31'52.190"W	7482.15	340.397	0.14	0.00	0.14
13625.00	91.140	339.200	5963.84	7574.99	7135.85	-2542.10	1771201.88	14618421.66	40°15'03.020"N	80°31'52.594"W	7575.13	340.392	1.75	0.00	-1.75
13718.00	91.080	338.450	5962.04	7667.96	7222.55	-2575.68	1771168.31	14618508.33	40°15'03.878"N	80°31'53.022"W	7668.08	340.373	0.81	-0.06	-0.81
13810.00	91.050	337.080	5960.33	7759.86	7307.69	-2610.49	1771133.52	14618593.44	40°15'04.721"N	80°31'53.465"W	7759.97	340.342	1.49	-0.03	-1.49
13903.00	91.200	337.480	5958.51	7852.74	7393.46	-2646.40	1771097.62	14618679.18	40°15'05.571"N	80°31'53.922"W	7852.82	340.306	0.66	0.16	0.43
13996.00	91.020	338.560	5956.71	7945.66	7479.68	-2681.20	1771062.83	14618765.37	40°15'06.425"N	80°31'54.365"W	7945.72	340.279	1.18	-0.19	1.16
14088.00	90.920	339.140	5955.15	8037.63	7565.47	-2714.39	1771029.65	14618851.12	40°15'07.274"N	80°31'54.787"W	8037.68	340.263	0.64	-0.11	0.63
14181.00	90.950	339.540	5953.63	8130.61	7652.48	-2747.20	1770996.86	14618938.10	40°15'08.136"N	80°31'55.204"W	8130.66	340.252	0.43	0.03	0.43
14273.00	90.830	340.210	5952.20	8222.59	7738.85	-2778.85	1770965.22	14619024.44	40°15'08.991"N	80°31'55.607"W	8222.64	340.248	0.74	-0.13	0.73
14366.00	90.520	339.750	5951.11	8315.59	7826.23	-2810.69	1770933.39	14619111.78	40°15'09.856"N	80°31'56.011"W	8315.64	340.245	0.60	-0.33	-0.49
14459.00	90.280	339.850	5950.46	8408.58	7913.51	-2842.80	1770901.30	14619199.02	40°15'10.720"N	80°31'56.419"W	8408.63	340.240	0.28	-0.26	0.11
14551.00	90.490	342.160	5949.84	8500.56	8000.49	-2872.74	1770871.36	14619285.97	40°15'11.581"N	80°31'56.800"W	8500.61	340.248	2.52	0.23	2.51
14644.00	90.370	342.080	5949.14	8593.50	8088.99	-2901.29	1770842.82	14619374.44	40°15'12.457"N	80°31'57.162"W	8593.56	340.269	0.16	-0.13	-0.09
14737.00	90.490	341.910	5948.44	8686.44	8177.44	-2930.04	1770814.09	14619462.85	40°15'13.333"N	80°31'57.527"W	8686.52	340.287	0.22	0.13	-0.18
14829.00	90.430	340.450	5947.70	8778.42	8264.51	-2959.72	1770784.42	14619549.90	40°15'14.195"N	80°31'57.904"W	8778.50	340.296	1.59	-0.07	-1.59
14921.00	90.340	340.150	5947.09	8870.42	8351.13	-2990.73	1770753.42	14619636.48	40°15'15.052"N	80°31'58.298"W	8870.50	340.296	0.34	-0.10	-0.33
15014.00	90.400	340.890	5946.48	8963.41	8438.80	-3021.74	1770722.42	14619724.12	40°15'15.920"N	80°31'58.692"W	8963.50	340.299	0.80	0.06	0.80
15106.00	90.400	341.940	5945.84	9055.38	8526.00	-3051.06	1770693.11	14619811.28	40°15'16.783"N	80°31'59.064"W	9055.48	340.310	1.14	0.00	1.14
15199.00	90.400	342.260	5945.19	9148.32	8614.49	-3079.65	1770664.54	14619899.74	40°15'17.659"N	80°31'59.427"W	9148.43	340.328	0.34	0.00	0.34
15290.00	90.400	341.360	5944.56	9239.27	8700.94	-3108.05	1770636.14	14619986.16	40°15'18.515"N	80°31'59.787"W	9239.39	340.343	0.99	0.00	-0.99
15381.00	90.490	340.330	5943.85	9330.26	8786.90	-3137.91	1770606.30	14620072.09	40°15'19.366"N	80°32'00.166"W	9330.39	340.348	1.14	0.10	-1.13
15474.00	90.400	340.830	5943.13	9423.25	8874.61	-3168.83	1770575.39	14620159.76	40°15'20.234"N	80°32'00.559"W	9423.38	340.350	0.55	-0.10	0.54
15566.00	90.430	341.320	5942.46	9515.24	8961.63	-3198.67	1770545.56	14620246.75	40°15'21.096"N	80°32'00.938"W	9515.37	340.357	0.53	0.03	0.53
15659.00	90.520	341.360	5941.69	9608.21	9049.74	-3228.42	1770515.82	14620334.82	40°15'21.968"N	80°32'01.316"W	9608.36	340.367	0.11	0.10	0.04
15752.00	90.400	340.660	5940.94	9701.19	9137.68	-3258.68	1770485.57	14620422.73	40°15'22.839"N	80°32'01.700"W	9701.35	340.373	0.76	-0.13	-0.75
15844.00	90.370	339.750	5940.33	9793.19	9224.24	-3289.84	1770454.43	14620509.25	40°15'23.696"N	80°32'02.096"W	9793.34	340.371	0.99	-0.03	-0.99

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Margaret Corbin 3H AWP Proj: 18044'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot 3H
SOUTHWESTERN ENERGY	Well	Margaret Corbin 3H
Brooke County, WV	Wellbore	Margaret Corbin 3H AWB
Brooke		
Margaret Corbin Pad		

WELLPATH DATA (205 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
15937.00	90.340	339.160	5939.75	9886.18	9311.32	-3322.48	1770421.80	14620596.30	40°15'24.558"N	80°32'02.511"W	9886.33	340.363	0.64	-0.03	-0.63
16030.00	90.370	337.350	5939.17	9979.13	9397.70	-3356.93	1770387.36	14620682.65	40°15'25.413"N	80°32'02.950"W	9979.26	340.343	1.95	0.03	-1.95
16123.00	90.430	336.200	5938.52	10071.98	9483.16	-3393.60	1770350.70	14620768.07	40°15'26.260"N	80°32'03.417"W	10072.08	340.310	1.24	0.06	-1.24
16214.00	90.280	336.230	5937.96	10162.77	9566.43	-3430.30	1770314.02	14620851.31	40°15'27.084"N	80°32'03.885"W	10162.85	340.273	0.17	-0.16	0.03
16307.00	90.220	337.640	5937.56	10255.63	9651.99	-3466.73	1770277.60	14620936.84	40°15'27.932"N	80°32'04.349"W	10255.69	340.243	1.52	-0.06	1.52
16398.00	90.310	337.950	5937.13	10346.56	9736.24	-3501.12	1770243.22	14621021.06	40°15'28.766"N	80°32'04.787"W	10346.60	340.222	0.35	0.10	0.34
16491.00	90.400	337.990	5936.56	10439.50	9822.45	-3536.01	1770208.35	14621107.24	40°15'29.620"N	80°32'05.231"W	10439.53	340.202	0.11	0.10	0.04
16583.00	90.310	338.250	5935.99	10531.44	9907.82	-3570.29	1770174.08	14621192.57	40°15'30.465"N	80°32'05.667"W	10531.47	340.183	0.30	-0.10	0.28
16676.00	90.430	339.870	5935.39	10624.42	9994.67	-3603.53	1770140.86	14621279.39	40°15'31.325"N	80°32'06.090"W	10624.45	340.173	0.75	0.13	1.74
16769.00	90.650	339.410	5934.51	10717.42	10081.86	-3635.88	1770108.52	14621366.55	40°15'32.188"N	80°32'06.501"W	10717.44	340.169	0.55	0.24	-0.49
16861.00	90.620	340.420	5933.49	10809.41	10168.26	-3667.47	1770076.94	14621452.91	40°15'33.044"N	80°32'06.903"W	10809.43	340.167	1.10	-0.03	1.10
16954.00	90.650	341.740	5932.46	10902.39	10256.22	-3697.63	1770046.79	14621540.85	40°15'33.915"N	80°32'07.286"W	10902.41	340.174	1.42	0.03	1.42
17046.00	90.680	341.070	5931.39	10994.35	10343.41	-3726.96	1770017.47	14621628.00	40°15'34.778"N	80°32'07.658"W	10994.38	340.185	0.73	0.03	-0.73
17139.00	90.620	340.760	5930.34	11087.34	10431.30	-3757.37	1769987.08	14621715.85	40°15'35.648"N	80°32'08.045"W	11087.37	340.191	0.34	-0.06	-0.33
17231.00	90.680	339.980	5929.29	11179.33	10517.94	-3788.27	1769956.18	14621802.47	40°15'36.506"N	80°32'08.437"W	11179.36	340.192	0.85	0.07	-0.85
17324.00	91.600	341.760	5927.44	11272.30	10605.79	-3818.74	1769925.73	14621890.28	40°15'37.375"N	80°32'08.825"W	11272.33	340.198	2.15	0.99	1.91
17417.00	91.200	340.260	5925.17	11365.25	10693.70	-3848.99	1769895.48	14621978.15	40°15'38.245"N	80°32'09.209"W	11365.29	340.205	1.67	-0.43	-1.61
17509.00	90.920	339.040	5923.47	11457.23	10779.94	-3880.98	1769863.51	14622064.36	40°15'39.099"N	80°32'09.616"W	11457.27	340.200	1.36	-0.30	-1.33
17602.00	91.420	338.040	5921.57	11550.18	10866.47	-3915.00	1769829.51	14622150.86	40°15'39.956"N	80°32'10.049"W	11550.21	340.187	1.20	0.54	-1.08
17695.00	91.420	337.370	5919.27	11643.07	10952.49	-3950.27	1769794.25	14622236.85	40°15'40.808"N	80°32'10.498"W	11643.10	340.167	0.72	0.00	-0.72
17786.00	90.950	337.210	5917.46	11733.95	11036.42	-3985.39	1769759.14	14622320.74	40°15'41.639"N	80°32'10.945"W	11733.96	340.145	0.55	-0.52	-0.18
17878.00	91.450	338.630	5915.46	11825.86	11121.65	-4019.97	1769724.58	14622405.94	40°15'42.483"N	80°32'11.385"W	11825.87	340.127	1.64	0.54	1.54
17971.00	92.280	339.700	5912.43	11918.80	11208.52	-4053.03	1769691.53	14622492.78	40°15'43.343"N	80°32'11.806"W	11918.81	340.120	1.46	0.89	1.15
18019.00	91.970	339.850	5910.65	11966.76	11253.53	-4069.61	1769674.95	14622537.77	40°15'43.789"N	80°32'12.017"W	11966.77	340.119	0.72	-0.65	0.31
18044.00	91.970	339.850	5909.79	11991.75	11276.99	-4078.22	1769666.35	14622561.22	40°15'44.021"N	80°32'12.126"W	11991.76	340.118	0.00	0.00	0.00

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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot 3H
SOUTHWESTERN ENERGY	Well	Margaret Corbin 3H
Brooke County, WV	Wellbore	Margaret Corbin 3H AWB
Brooke		
Margaret Corbin Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Margaret Corbin 3H AWB Ref Wellpath: Margaret Corbin 3H AWP Proj: 18044'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	26.00	100.00	74.00	26.00	100.00	0.00	0.00	0.35	-0.20
17.5in Open Hole	126.00	474.00	348.00	126.00	473.99	0.54	-0.28	1.99	-0.94
13.375in Casing Surface	26.00	450.00	424.00	26.00	449.99	0.00	0.00	2.00	-0.95
12.25in Open Hole	474.00	1725.00	1251.00	473.99	1723.56	1.99	-0.94	47.96	6.92
9.625in Casing Intermediate	26.00	1690.00	1664.00	26.00	1688.56	0.00	0.00	47.81	7.05
8.75in Open Hole	1725.00	5280.00	3555.00	1723.56	5264.11	47.96	6.92	-171.88	132.43
8.5in Open Hole	5280.00	18044.00	12764.00	5264.11	5909.79	-171.88	132.43	11276.99	-4078.22
5.5in Casing Production	26.00	18044.00	18018.00	26.00	5909.79	0.00	0.00	11276.99	-4078.22

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Margaret Corbin 3H BHL Rev-3	5884.20	15953.16	-5791.48	1767953.74	14627235.61	40°16'30.318"N	80°32'33.914"W	point
Margaret Corbin 3H TP Rev-2	6028.47	4429.40	-1533.60	1772210.00	14615716.25	40°14'36.222"N	80°31'39.774"W	point
Margaret Corbin 3H LP Rev-3	6079.00	362.96	-132.44	1773610.62	14611651.36	40°13'55.965"N	80°31'21.988"W	point



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Margaret Corbin 3H AWP Proj: 18044'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot 3H
SOUTHWESTERN ENERGY	Well	Margaret Corbin 3H
Brooke County, WV	Wellbore	Margaret Corbin 3H AWB
Brooke		
Margaret Corbin Pad		

WELLPATH COMPOSITION - Ref Wellbore: Margaret Corbin 3H AWB Ref Wellpath: Margaret Corbin 3H AWP Proj: 18044'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
26.00	350.00	Gyrodata standard - Drop gyro or Multi-shot	01_GyroData MS <17 1/2"> (50'-350')	Margaret Corbin 3H AWB
350.00	535.00	Gyrodata standard - Drop gyro or Multi-shot	02_GyroData MS <12 1/4"> (400'-535')	Margaret Corbin 3H AWB
535.00	1654.00	BHI NaviTrak (Axial)	03_APS EM <12 1/4"> (596'-1654')	Margaret Corbin 3H AWB
1654.00	5210.00	BHI NaviTrak (Axial)	04_APS EM <8 3/4"> (1742'-5210')	Margaret Corbin 3H AWB
5210.00	18019.00	BHI AutoTrak Curve (Short)	05_BH AT Curve <8 1/2"> (5306'-18019')	Margaret Corbin 3H AWB
18019.00	18044.00	Blind Drilling (std)	Projection to bit	Margaret Corbin 3H AWB

REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY	Slot	Slot 3H
Area	Brooke County, WV	Well	Margaret Corbin 3H
Field	Brooke	Wellbore	Margaret Corbin 3H AWB
Facility	Margaret Corbin Pad		

COMMENTS

Wellpath general comments
API: 47-009-00281-0000
BH Job #: 109876565
Rig: SDC 41
Duration: 06/28/2019 - 07/07/2019

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