

REFERENCE WELLPATH IDENTIFICATION		
Operator	SOUTHWESTERN ENERGY	Slot #8H
Area	Brooke County, WV	Barry Greathouse A BRK 8H
Field	Brooke	Barry Greathouse A BRK 8H AWB
Facility	Barry Greathouse A BRK Pad	

REPORT SETUP INFORMATION	
Projection System	NAD83 / UTM Zone 17 North, US feet
Software System	WellArchitect® 5.1
North Reference	Grid
User	Edsaryar
Scale	0.999612
Report Generated	14/Jun/2019 at 14:58
Database/Source file	WA_MPL_EASTERNUS_Defn/Barry_Greathouse_A_BRK_8H_AWP_Proj_16959_.xml
Convergence at slot	0.24° East

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	45.27	-9.82	1742174.06	14596701.09	40°11'29.645"N	80°38'08.257"W
Facility Reference Pt			1742183.88	14596655.84	40°11'29.197"N	80°38'08.133"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.478"W

WELLPATH DATUM	
Calculation method	SDC 40 (RKB) to Facility Vertical Datum
Horizontal Reference Pt	SDC 40 (RKB) to Mean Sea Level
Vertical Reference Pt	SDC 40 (RKB) to Ground Level at Slot (Slot #8H)
MD Reference Pt	Section Origin
Field Vertical Reference	Section Azimuth
	1163.20ft
	1163.20ft
	26.00ft
	N 0.00, E 0.00 ft
	156.28°

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Brooke County, WV	Wellbore	Barry Greathouse A BRK 8H AWB
Brooke		
Barry Greathouse A BRK Pad		

WELLPATH DATA (194 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]
0.00H	0.000	263.200	0.00	0.00	0.00	0.00	1742174.06	14596701.09	40°11'29.645"N	80°38'08.257"W	0.00	0.000	0.00	0.00	0.00
26.00	0.000	263.200	26.00	0.00	0.00	0.00	1742174.06	14596701.09	40°11'29.645"N	80°38'08.257"W	0.00	0.000	0.00	0.00	0.00
149.00	0.200	263.200	149.00	-0.06	-0.03	-0.21	1742173.84	14596701.07	40°11'29.645"N	80°38'08.260"W	0.21	263.200	0.16	0.16	-78.70
210.00	0.330	267.000	210.00	-0.16	-0.05	-0.49	1742173.56	14596701.05	40°11'29.644"N	80°38'08.264"W	0.50	264.543	0.21	0.21	6.23
301.00	0.850	280.820	300.99	-0.63	0.07	-1.42	1742172.64	14596701.16	40°11'29.646"N	80°38'08.275"W	1.42	272.654	0.59	0.57	15.19
331.00	0.880	276.280	330.99	-0.87	0.13	-1.87	1742172.19	14596701.23	40°11'29.646"N	80°38'08.281"W	1.87	274.068	0.65	0.10	-15.13
421.00	1.380	294.930	420.97	-2.03	0.67	-3.54	1742170.52	14596701.76	40°11'29.652"N	80°38'08.303"W	3.60	280.653	0.68	0.56	20.72
512.00	0.400	320.100	511.96	-3.16	1.37	-4.73	1742169.33	14596702.46	40°11'29.659"N	80°38'08.318"W	4.93	286.149	1.13	-1.08	27.66
603.00	1.790	371.900	602.95	-3.33	2.06	-3.59	1742170.47	14596703.15	40°11'29.665"N	80°38'08.303"W	4.13	299.825	2.17	1.53	122.86
696.00	3.910	67.030	695.83	-3.14	3.74	0.71	1742174.77	14596704.84	40°11'29.682"N	80°38'08.248"W	3.81	10.794	2.29	2.28	-5.24
788.00	5.670	65.050	787.50	-3.20	6.89	7.72	1742181.78	14596707.98	40°11'29.713"N	80°38'08.157"W	10.35	48.278	1.92	1.91	-2.15
881.00	6.960	63.910	879.94	-3.53	11.30	16.95	1742191.00	14596712.39	40°11'29.756"N	80°38'08.038"W	20.37	56.303	1.39	1.39	-1.23
974.00	7.910	60.550	972.15	-4.40	16.93	27.58	1742201.63	14596718.01	40°11'29.811"N	80°38'07.901"W	32.36	58.463	1.12	1.02	-3.61
1067.00	9.410	57.710	1064.09	-6.17	24.14	39.58	1742213.63	14596725.22	40°11'29.882"N	80°38'07.746"W	46.36	58.628	1.68	1.61	-3.05
1159.00	9.370	59.390	1154.86	-8.19	31.97	52.39	1742226.42	14596733.05	40°11'29.959"N	80°38'07.580"W	61.37	58.608	0.30	-0.04	1.83
1252.00	9.490	60.100	1246.60	-9.93	39.64	65.55	1742239.58	14596740.72	40°11'30.034"N	80°38'07.410"W	76.60	58.835	0.18	0.13	0.76
1345.00	10.950	59.330	1338.12	-11.82	47.97	79.79	1742253.82	14596749.05	40°11'30.116"N	80°38'07.226"W	93.10	58.986	1.58	1.57	-0.83
1438.00	10.100	53.030	1429.56	-14.76	57.38	93.91	1742267.93	14596758.45	40°11'30.208"N	80°38'07.044"W	110.05	58.573	1.54	-0.91	-6.77
1531.00	10.100	46.840	1521.12	-19.34	67.86	106.37	1742280.39	14596768.93	40°11'30.311"N	80°38'06.883"W	126.17	57.462	1.17	0.00	-6.66
1582.00	10.370	46.170	1571.31	-22.41	74.10	112.94	1742286.96	14596775.17	40°11'30.372"N	80°38'06.798"W	135.08	56.731	0.58	0.53	-1.31
1671.00	8.610	51.330	1659.09	-26.88	83.81	123.92	1742297.93	14596784.87	40°11'30.468"N	80°38'06.656"W	149.60	55.929	2.19	-1.98	5.80
1732.00	8.510	72.600	1719.43	-27.56	88.02	131.80	1742305.80	14596789.07	40°11'30.509"N	80°38'06.554"W	158.48	56.265	5.16	-0.16	34.87
1822.00	8.740	86.260	1808.42	-24.49	90.45	144.98	1742318.98	14596791.51	40°11'30.533"N	80°38'06.384"W	170.88	58.039	2.29	0.26	15.18
1914.00	8.450	90.340	1899.39	-19.35	90.87	158.71	1742332.71	14596791.93	40°11'30.536"N	80°38'06.207"W	182.88	60.207	0.73	-0.32	4.43
2006.00	9.450	97.990	1990.27	-12.62	89.78	172.95	1742336.94	14596790.84	40°11'30.525"N	80°38'06.024"W	194.86	62.566	1.69	1.09	8.32
2099.00	10.530	111.270	2081.87	-2.60	85.63	188.43	1742362.42	14596786.69	40°11'30.483"N	80°38'05.825"W	206.98	65.560	2.73	1.16	14.28
2192.00	11.850	116.020	2173.10	10.70	78.36	204.93	1742378.91	14596779.43	40°11'30.411"N	80°38'05.612"W	219.40	69.074	1.73	1.42	5.11
2285.00	13.020	119.880	2263.92	26.42	68.95	222.60	1742396.57	14596770.02	40°11'30.317"N	80°38'05.385"W	233.03	72.789	1.54	1.26	4.15
2374.00	13.850	127.030	2350.49	43.78	57.54	239.80	1742413.76	14596758.61	40°11'30.204"N	80°38'05.164"W	246.60	76.506	2.08	0.93	8.03
2467.00	14.830	132.420	2440.59	64.38	42.81	257.47	1742431.43	14596743.89	40°11'30.057"N	80°38'04.937"W	261.01	80.560	1.78	1.05	5.80

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WELLPATH DATA (194 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]
2560.00	16.300	137.750	2530.19	87.64	25.12	275.03	1742448.98	14596726.20	40°11'29.882"N	80°38'04.712"W	276.18	84.782	2.20	1.58	5.73
2652.00	18.100	145.160	2618.08	113.91	3.83	291.88	1742465.83	14596704.92	40°11'29.671"N	80°38'04.496"W	291.91	89.248	3.08	1.96	8.05
2745.00	20.080	143.090	2705.96	143.63	-20.80	309.73	1742483.66	14596680.31	40°11'29.427"N	80°38'04.267"W	310.42	93.841	2.25	2.13	-2.23
2838.00	22.050	141.550	2792.74	176.06	-47.24	330.17	1742504.10	14596653.88	40°11'29.165"N	80°38'04.005"W	333.53	98.142	2.20	2.12	-1.66
2930.00	20.850	140.670	2878.37	208.53	-73.43	351.29	1742525.21	14596627.70	40°11'28.905"N	80°38'03.735"W	358.88	101.806	1.35	-1.30	-0.96
3023.00	22.350	142.880	2964.84	241.68	-100.33	372.45	1742546.36	14596600.80	40°11'28.638"N	80°38'03.463"W	385.73	105.076	1.83	1.61	2.38
3116.00	21.550	147.410	3051.17	275.76	-128.82	392.32	1742566.23	14596572.32	40°11'28.356"N	80°38'03.209"W	412.93	108.178	2.01	-0.86	4.87
3209.00	19.580	145.280	3138.17	307.93	-156.02	410.40	1742584.30	14596545.13	40°11'28.086"N	80°38'02.977"W	439.06	110.816	2.27	-2.12	-2.29
3301.00	20.890	143.930	3224.49	339.09	-181.95	428.84	1742602.73	14596519.21	40°11'27.829"N	80°38'02.741"W	465.84	112.991	1.51	1.42	-1.47
3394.00	21.410	145.440	3311.23	371.96	-209.34	448.23	1742622.11	14596491.84	40°11'27.558"N	80°38'02.493"W	494.70	115.034	0.81	0.56	1.62
3487.00	19.470	143.040	3398.37	403.72	-235.70	467.18	1742641.05	14596465.48	40°11'27.297"N	80°38'02.250"W	523.27	116.772	2.27	-2.09	-2.58
3580.00	20.400	143.280	3485.80	434.60	-261.08	486.19	1742660.06	14596440.12	40°11'27.045"N	80°38'02.006"W	551.85	118.235	1.00	1.00	0.26
3672.00	20.870	144.420	3571.89	466.26	-287.26	505.31	1742679.17	14596413.95	40°11'26.786"N	80°38'01.761"W	581.26	119.617	0.67	0.51	1.24
3765.00	21.640	146.550	3658.57	499.38	-315.04	524.40	1742698.26	14596386.18	40°11'26.510"N	80°38'01.517"W	611.76	120.996	1.17	0.83	2.29
3858.00	21.930	146.210	3744.93	533.38	-343.78	543.51	1742717.36	14596357.45	40°11'26.225"N	80°38'01.272"W	643.11	122.314	0.34	0.31	-0.37
3950.00	21.710	143.490	3830.34	566.89	-371.74	563.19	1742737.03	14596329.50	40°11'25.948"N	80°38'01.020"W	674.81	123.427	1.12	-0.24	-2.96
4043.00	21.920	144.520	3916.68	600.66	-399.70	583.50	1742757.33	14596301.55	40°11'25.671"N	80°38'00.760"W	707.27	124.411	0.47	0.23	1.11
4136.00	22.850	145.300	4002.67	635.38	-428.68	603.86	1742777.68	14596272.58	40°11'25.384"N	80°38'00.499"W	740.55	125.371	1.05	1.00	0.84
4229.00	22.260	145.790	4088.56	670.42	-458.09	624.04	1742797.85	14596243.18	40°11'25.093"N	80°38'00.240"W	774.13	126.281	0.67	-0.63	0.53
4321.00	20.530	145.050	4174.21	703.38	-485.73	643.08	1742816.89	14596215.56	40°11'24.819"N	80°37'59.997"W	805.91	127.064	1.90	-1.88	-0.80
4411.00	20.360	144.390	4258.54	734.18	-511.39	661.24	1742835.04	14596189.90	40°11'24.564"N	80°37'59.764"W	835.92	127.718	0.32	-0.19	-0.73
4504.00	20.510	146.680	4345.69	766.08	-538.16	679.61	1742853.40	14596163.14	40°11'24.299"N	80°37'59.529"W	866.88	128.375	0.87	0.16	2.46
4596.00	21.040	147.520	4431.71	798.29	-565.56	697.33	1742871.11	14596135.76	40°11'24.028"N	80°37'59.302"W	897.84	129.043	0.66	0.58	0.91
4689.00	21.840	148.050	4518.27	831.91	-594.32	715.45	1742889.23	14596107.00	40°11'23.743"N	80°37'59.070"W	930.10	129.716	0.89	0.86	0.57
4782.00	22.380	147.580	4604.43	866.54	-623.94	734.09	1742907.87	14596077.39	40°11'23.449"N	80°37'58.831"W	963.43	130.363	0.61	0.58	-0.51
4875.00	22.060	147.400	4690.53	901.29	-653.60	753.00	1742926.76	14596047.75	40°11'23.155"N	80°37'58.589"W	997.09	130.958	0.35	-0.34	-0.19
4967.00	21.900	145.650	4775.84	935.23	-682.32	771.98	1742945.74	14596019.04	40°11'22.871"N	80°37'58.346"W	1030.30	131.472	0.73	-0.17	-1.90
5060.00	21.550	145.120	4862.24	969.03	-710.65	791.54	1742965.29	14595990.72	40°11'22.590"N	80°37'58.096"W	1063.75	131.918	0.43	-0.38	-0.57
5153.00	20.280	143.380	4949.11	1001.50	-737.60	810.92	1742984.66	14595963.78	40°11'22.323"N	80°37'57.847"W	1096.20	132.289	1.52	-1.37	-1.87
5244.00	18.850	145.940	5034.85	1031.34	-762.44	828.56	1743002.30	14595938.95	40°11'22.077"N	80°37'57.621"W	1125.98	132.620	1.83	-1.57	2.81

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5337.00	19.970	146.220	5122.57	1061.75	-788.09	845.81	1743019.54	14595913.31	40°11'21.823"N	80°37'57.400"W	1156.06	132.977	1.21	1.20	0.30
5429.00	20.100	145.900	5209.00	1092.77	-814.24	863.40	1743037.13	14595887.17	40°11'21.563"N	80°37'57.175"W	1186.78	133.321	0.18	0.14	-0.35
5522.00	20.970	148.920	5296.09	1125.00	-841.72	880.96	1743054.67	14595859.70	40°11'21.291"N	80°37'56.950"W	1218.43	133.695	1.47	0.94	3.25
5615.00	23.580	148.760	5382.14	1159.95	-871.88	899.20	1743072.90	14595829.55	40°11'20.992"N	80°37'56.717"W	1252.49	134.116	2.81	2.81	-0.17
5705.00	29.680	147.790	5462.56	1199.87	-906.16	920.43	1743094.13	14595795.29	40°11'20.653"N	80°37'56.445"W	1291.63	134.552	6.79	6.78	-1.08
5794.00	34.990	144.840	5537.74	1246.71	-945.70	946.89	1743120.58	14595755.77	40°11'20.261"N	80°37'56.106"W	1338.26	134.964	6.22	5.97	-3.31
5887.00	41.100	145.080	5610.94	1302.88	-992.61	979.77	1743153.45	14595708.88	40°11'19.796"N	80°37'55.685"W	1394.71	135.373	6.57	6.57	0.26
5976.00	49.040	148.320	5673.75	1364.97	-1045.28	1014.23	1743187.89	14595656.22	40°11'19.274"N	80°37'55.244"W	1456.46	135.864	9.28	8.92	3.64
6023.00	53.940	149.330	5703.01	1401.42	-1076.74	1033.25	1743206.91	14595624.77	40°11'18.962"N	80°37'55.001"W	1492.31	136.181	10.56	10.43	2.15
6069.00	59.210	151.120	5728.34	1439.59	-1110.06	1052.29	1743225.94	14595591.47	40°11'18.632"N	80°37'54.757"W	1529.56	136.530	11.91	11.46	3.89
6116.00	63.490	153.180	5750.87	1480.72	-1146.53	1071.54	1743245.18	14595555.02	40°11'18.271"N	80°37'54.511"W	1569.31	136.936	9.88	9.11	4.38
6162.00	66.380	155.250	5770.36	1522.35	-1184.04	1089.65	1743263.29	14595517.51	40°11'17.900"N	80°37'54.280"W	1609.13	137.377	7.49	6.28	4.50
6208.00	68.650	156.870	5787.95	1564.85	-1222.89	1106.90	1743280.52	14595478.68	40°11'17.515"N	80°37'54.060"W	1649.44	137.850	5.91	4.93	3.52
6255.00	70.740	158.680	5804.26	1608.91	-1263.69	1123.56	1743297.18	14595437.90	40°11'17.111"N	80°37'53.847"W	1690.95	138.359	5.73	4.45	3.85
6301.00	73.520	160.170	5818.38	1652.62	-1304.67	1138.94	1743312.56	14595396.93	40°11'16.706"N	80°37'53.651"W	1731.87	138.880	6.78	6.04	3.24
6348.00	78.320	160.760	5829.81	1698.07	-1347.62	1154.18	1743327.79	14595354.00	40°11'16.281"N	80°37'53.457"W	1774.32	139.421	10.29	10.21	1.26
6394.00	82.580	160.430	5837.44	1743.29	-1390.40	1169.25	1743342.85	14595311.24	40°11'15.857"N	80°37'53.265"W	1816.69	139.938	9.29	9.26	-0.72
6440.00	83.550	159.920	5842.99	1788.85	-1433.36	1184.73	1743358.33	14595268.30	40°11'15.432"N	80°37'53.068"W	1859.60	140.425	2.38	2.11	-1.11
6533.00	89.030	159.660	5849.01	1881.44	-1520.41	1216.78	1743390.37	14595181.27	40°11'14.571"N	80°37'52.660"W	1947.36	141.330	5.90	5.89	-0.28
6611.00	89.630	160.530	5849.92	1959.27	-1593.75	1243.34	1743416.91	14595107.97	40°11'13.845"N	80°37'52.321"W	2021.37	142.041	1.35	0.77	1.12
6704.00	89.450	159.340	5850.67	2052.07	-1681.10	1275.24	1743448.80	14595020.65	40°11'12.980"N	80°37'51.915"W	2110.06	142.817	1.29	-0.19	-1.28
6797.00	89.600	159.550	5851.44	2144.93	-1768.17	1307.89	1743481.44	14594933.61	40°11'12.118"N	80°37'51.499"W	2199.32	143.510	0.28	0.16	0.23
6890.00	89.260	158.900	5852.36	2237.80	-1855.12	1340.88	1743514.41	14594846.66	40°11'11.258"N	80°37'51.079"W	2288.98	144.141	0.79	-0.37	-0.70
6982.00	89.540	158.680	5853.33	2329.70	-1940.89	1374.16	1743547.68	14594760.96	40°11'10.409"N	80°37'50.654"W	2378.10	144.701	0.39	0.30	-0.24
7075.00	90.250	159.630	5853.50	2422.59	-2027.80	1407.25	1743580.76	14594674.09	40°11'09.549"N	80°37'50.233"W	2468.26	145.240	1.28	0.76	1.02
7168.00	89.970	158.410	5853.32	2515.48	-2114.63	1440.55	1743614.05	14594587.29	40°11'08.689"N	80°37'49.808"W	2558.68	145.736	1.35	-0.30	-1.31
7260.00	89.140	157.020	5854.03	2607.44	-2199.75	1475.44	1743648.92	14594502.20	40°11'07.847"N	80°37'49.363"W	2648.74	146.149	1.76	-0.90	-1.51
7353.00	89.110	156.010	5855.45	2700.43	-2285.04	1512.49	1743685.96	14594416.95	40°11'07.002"N	80°37'48.890"W	2740.26	146.499	1.09	-0.03	-1.09
7446.00	88.980	155.880	5857.00	2793.42	-2369.95	1550.40	1743723.85	14594332.07	40°11'06.162"N	80°37'48.407"W	2832.03	146.808	0.20	-0.14	-0.14
7539.00	88.710	156.710	5858.88	2886.40	-2455.09	1587.78	1743761.22	14594246.97	40°11'05.319"N	80°37'47.930"W	2923.78	147.108	0.94	-0.29	0.89

REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #8H
SOUTHWESTERN ENERGY	Well	Barry Greathouse A BRK 8H
Area	Wellbore	Barry Greathouse A BRK 8H AWP
Field		
Facility		

WELLPATH DATA (194 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]
7631.00	87.750	159.240	5861.72	2978.30	-2540.32	1622.26	1743795.68	14594161.76	40°11'04.475"N	80°37'47.490"W	3014.13	147.438	2.94	-1.04	3.18
7724.00	88.860	162.200	5864.47	3070.97	-2628.06	1652.95	1743826.36	14594074.06	40°11'03.607"N	80°37'47.099"W	3104.66	147.832	3.40	1.19	3.18
7817.00	89.110	162.880	5866.12	3163.40	-2716.76	1680.85	1743854.25	14593985.40	40°11'02.729"N	80°37'46.744"W	3194.69	148.255	0.78	0.27	0.73
7909.00	89.010	161.520	5867.63	3254.90	-2804.34	1708.97	1743882.36	14593897.85	40°11'01.863"N	80°37'46.387"W	3284.04	148.642	1.48	-0.11	-1.48
8002.00	89.020	160.970	5869.23	3347.53	-2892.39	1738.86	1743912.24	14593809.83	40°11'00.991"N	80°37'46.006"W	3374.84	148.986	0.59	0.01	-0.59
8095.00	89.110	160.600	5870.74	3440.23	-2980.20	1769.47	1743942.83	14593722.06	40°11'00.122"N	80°37'45.617"W	3465.92	149.301	0.41	0.10	-0.40
8188.00	89.420	160.750	5871.94	3532.95	-3067.95	1800.24	1743973.60	14593634.34	40°10'59.254"N	80°37'45.225"W	3557.13	149.596	0.37	0.33	0.16
8280.00	89.350	159.880	5872.92	3624.72	-3154.57	1831.23	1744004.57	14593547.76	40°10'58.397"N	80°37'44.831"W	3647.56	149.865	0.95	-0.08	-0.95
8373.00	89.350	158.350	5873.98	3717.60	-3241.45	1864.38	1744037.71	14593460.91	40°10'57.537"N	80°37'44.408"W	3739.37	150.094	1.65	0.00	-1.65
8466.00	89.480	157.030	5874.93	3810.56	-3327.48	1899.68	1744073.00	14593374.91	40°10'56.685"N	80°37'43.958"W	3831.57	150.278	1.43	0.14	-1.42
8559.00	89.450	156.640	5875.80	3903.55	-3412.98	1936.26	1744109.57	14593289.45	40°10'55.839"N	80°37'43.491"W	3923.97	150.433	0.42	-0.03	-0.42
8651.00	89.320	155.610	5876.78	3995.55	-3497.10	1973.50	1744146.79	14593205.36	40°10'55.006"N	80°37'43.016"W	4015.52	150.563	1.13	-0.14	-1.12
8744.00	89.350	155.310	5877.86	4088.53	-3581.69	2012.12	1744185.39	14593120.80	40°10'54.168"N	80°37'42.523"W	4108.18	150.674	0.32	0.03	-0.32
8837.00	89.320	156.520	5878.94	4181.52	-3666.59	2050.07	1744223.33	14593035.94	40°10'53.328"N	80°37'42.039"W	4200.79	150.789	1.30	-0.03	1.30
8926.00	89.420	160.670	5879.92	4270.42	-3749.43	2082.54	1744255.79	14592953.13	40°10'52.508"N	80°37'41.625"W	4288.96	150.951	4.66	0.11	4.66
9019.00	89.630	165.620	5880.69	4362.72	-3838.40	2109.50	1744282.73	14592864.19	40°10'51.628"N	80°37'41.282"W	4379.87	151.208	5.33	0.23	5.32
9109.00	89.630	166.400	5881.28	4451.43	-3925.73	2131.25	1744304.48	14592776.90	40°10'50.764"N	80°37'41.007"W	4466.94	151.503	0.87	0.00	0.87
9201.00	89.750	163.220	5881.77	4542.40	-4014.50	2155.36	1744328.57	14592688.16	40°10'49.886"N	80°37'40.701"W	4556.51	151.769	3.46	0.13	-3.46
9294.00	90.120	160.670	5881.88	4634.93	-4102.91	2184.18	1744357.38	14592599.78	40°10'49.011"N	80°37'40.334"W	4648.07	151.971	2.77	0.40	-2.74
9387.00	90.220	158.410	5881.60	4727.78	-4190.04	2216.68	1744389.88	14592512.69	40°10'48.148"N	80°37'39.920"W	4740.27	152.120	2.43	0.11	-2.43
9480.00	89.380	158.920	5881.93	4820.69	-4276.67	2250.52	1744423.70	14592426.09	40°10'47.291"N	80°37'39.489"W	4832.67	152.245	1.06	-0.90	0.55
9572.00	89.540	158.470	5882.79	4912.61	-4362.38	2283.94	1744457.11	14592340.42	40°10'46.443"N	80°37'39.063"W	4924.10	152.365	0.52	0.17	-0.49
9665.00	89.420	158.310	5883.64	5005.54	-4448.84	2318.19	1744491.35	14592253.99	40°10'45.587"N	80°37'38.626"W	5016.59	152.477	0.22	-0.13	-0.17
9755.00	89.450	158.050	5884.53	5095.49	-4532.38	2351.64	1744524.78	14592170.48	40°10'44.760"N	80°37'38.200"W	5106.15	152.577	0.29	0.03	-0.29
9847.00	89.540	158.820	5885.34	5187.42	-4617.94	2385.46	1744558.59	14592084.96	40°10'43.913"N	80°37'37.769"W	5197.67	152.681	0.84	0.10	0.84
9940.00	89.450	159.570	5886.16	5280.29	-4704.87	2418.49	1744591.60	14591988.06	40°10'43.052"N	80°37'37.348"W	5290.08	152.795	0.81	-0.10	0.81
10033.00	89.540	160.590	5886.98	5373.08	-4792.30	2450.17	1744623.28	14591910.66	40°10'42.187"N	80°37'36.945"W	5382.33	152.921	1.10	0.10	1.10
10126.00	89.570	162.090	5887.70	5465.72	-4880.41	2479.93	1744653.02	14591822.59	40°10'41.315"N	80°37'36.566"W	5474.34	153.063	1.61	0.03	1.61
10219.00	90.250	162.930	5887.84	5558.17	-4969.11	2507.88	1744680.96	14591733.92	40°10'40.438"N	80°37'36.211"W	5566.10	153.220	1.16	0.73	0.90
10311.00	90.120	161.580	5887.55	5649.66	-5056.73	2535.92	1744708.98	14591646.34	40°10'39.571"N	80°37'35.854"W	5656.98	153.367	1.47	-0.14	-1.47

Actual Wellpath Report

Barry Greathouse A BRK 8H AWP Proj: 16959'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #8H
SOUTHWESTERN ENERGY	Well	Barry Greathouse A BRK 8H
Brooke County, WV	Wellbore	Barry Greathouse A BRK 8H AWB
Brooke		
Barry Greathouse A BRK Pad		

WELLPATH DATA (194 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 (°)	D.L.S (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)
10401.00	89.850	159.650	5887.57	5739.40	-5141.62	2565.79	1744738.84	14591561.48	40°10'38.730"N	80°37'35.474"W	5746.26	153.480	2.17	-0.30	-2.14
10494.00	89.720	157.280	5887.92	5832.33	-5228.12	2599.92	1744772.96	14591475.01	40°10'37.874"N	80°37'35.039"W	5838.91	153.559	2.55	-0.14	-2.55
10584.00	89.780	156.500	5888.31	5922.32	-5310.90	2635.25	1744808.28	14591392.27	40°10'37.055"N	80°37'34.589"W	5928.76	153.610	0.87	0.07	-0.87
10676.00	89.850	157.440	5888.61	6014.31	-5395.57	2671.24	1744844.25	14591307.63	40°10'36.217"N	80°37'34.129"W	6020.60	153.661	1.02	0.08	1.02
10769.00	89.820	157.650	5888.88	6107.29	-5481.51	2706.76	1744879.76	14591221.72	40°10'35.366"N	80°37'33.676"W	6113.39	153.720	0.23	-0.03	0.23
10862.00	89.660	158.290	5889.30	6200.25	-5567.72	2741.64	1744914.63	14591135.54	40°10'34.512"N	80°37'33.232"W	6206.14	153.784	0.71	-0.17	0.69
10954.00	89.660	159.340	5889.85	6292.15	-5653.50	2774.89	1744947.86	14591049.80	40°10'33.663"N	80°37'32.808"W	6297.78	153.857	1.14	0.00	1.14
11047.00	89.720	159.240	5890.35	6385.02	-5740.49	2807.78	1744980.74	14590962.84	40°10'32.802"N	80°37'32.389"W	6390.37	153.936	0.13	0.06	-0.11
11140.00	89.750	159.120	5890.78	6477.90	-5827.42	2840.83	1745013.78	14590875.95	40°10'31.942"N	80°37'31.968"W	6482.99	154.011	0.13	0.03	-0.13
11232.00	89.600	159.440	5891.30	6569.78	-5913.47	2873.38	1745046.32	14590789.93	40°10'31.090"N	80°37'31.553"W	6574.60	154.085	0.88	-0.16	0.35
11325.00	89.820	160.230	5891.77	6662.60	-6000.76	2905.44	1745078.36	14590702.67	40°10'30.226"N	80°37'31.145"W	6667.14	154.165	0.38	0.24	0.85
11418.00	90.250	160.680	5891.71	6755.35	-6088.40	2936.55	1745109.46	14590615.06	40°10'29.359"N	80°37'30.749"W	6759.59	154.251	0.67	0.46	0.48
11511.00	89.720	160.320	5891.74	6848.10	-6176.07	2967.59	1745140.49	14590527.43	40°10'28.491"N	80°37'30.354"W	6852.04	154.336	0.69	-0.57	-0.39
11603.00	89.600	159.630	5892.29	6939.90	-6262.51	2999.10	1745171.99	14590441.03	40°10'27.636"N	80°37'29.953"W	6943.60	154.410	0.76	-0.13	-0.75
11696.00	90.000	160.450	5892.61	7032.70	-6349.92	3030.84	1745203.72	14590353.65	40°10'26.771"N	80°37'29.549"W	7036.15	154.485	0.98	0.43	0.88
11789.00	90.430	160.360	5892.26	7125.46	-6437.53	3062.03	1745234.90	14590266.07	40°10'25.904"N	80°37'29.152"W	7128.66	154.562	0.47	0.46	-0.10
11882.00	90.030	159.770	5891.89	7218.25	-6524.96	3093.74	1745266.59	14590178.68	40°10'25.038"N	80°37'28.748"W	7221.24	154.633	0.77	-0.43	-0.63
11974.00	89.660	159.810	5892.14	7310.08	-6611.29	3125.52	1745298.36	14590092.38	40°10'24.184"N	80°37'28.343"W	7312.87	154.697	0.40	-0.40	0.04
12067.00	89.850	159.790	5892.53	7402.90	-6698.57	3157.64	1745330.46	14590005.14	40°10'23.320"N	80°37'27.934"W	7405.51	154.761	0.21	0.20	-0.02
12160.00	90.120	159.180	5892.56	7495.76	-6785.67	3190.23	1745363.04	14589918.07	40°10'22.458"N	80°37'27.519"W	7498.19	154.820	0.72	0.29	-0.66
12253.00	89.850	158.740	5892.58	7588.66	-6872.47	3223.62	1745396.42	14589831.30	40°10'21.599"N	80°37'27.094"W	7590.95	154.871	0.56	-0.29	-0.47
12345.00	90.150	157.910	5892.58	7680.60	-6957.97	3257.60	1745430.38	14589745.84	40°10'20.753"N	80°37'26.661"W	7682.79	154.912	0.96	0.33	-0.90
12438.00	89.450	153.620	5892.91	7773.57	-7042.75	3295.76	1745468.53	14589661.09	40°10'19.913"N	80°37'26.174"W	7775.75	154.922	4.67	-0.75	-4.61
12528.00	89.260	153.040	5893.92	7863.45	-7123.17	3336.15	1745508.91	14589580.70	40°10'19.117"N	80°37'25.658"W	7865.71	154.904	0.68	-0.21	-0.64
12620.00	89.230	152.920	5895.13	7955.28	-7205.12	3377.95	1745550.69	14589498.79	40°10'18.305"N	80°37'25.124"W	7957.65	154.882	0.13	-0.03	-0.13
12713.00	89.380	152.770	5896.26	8048.11	-7287.86	3420.39	1745593.11	14589416.07	40°10'17.486"N	80°37'24.582"W	8050.59	154.858	0.23	0.16	-0.16
12805.00	89.720	154.010	5896.98	8139.99	-7370.11	3461.59	1745634.30	14589333.86	40°10'16.671"N	80°37'24.055"W	8142.56	154.841	1.40	0.37	1.35
12898.00	89.690	154.670	5897.46	8232.93	-7453.94	3501.87	1745674.56	14589250.06	40°10'15.841"N	80°37'23.541"W	8235.55	154.836	0.71	-0.03	0.71
12991.00	89.660	154.760	5897.99	8325.90	-7538.03	3541.59	1745714.26	14589166.01	40°10'15.009"N	80°37'23.034"W	8328.55	154.834	0.10	-0.03	0.10
13081.00	89.600	155.380	5898.57	8415.88	-7619.64	3579.52	1745752.18	14589084.43	40°10'14.200"N	80°37'22.550"W	8418.54	154.837	0.69	-0.07	0.69



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WV Department of
Environmental Protection

Actual Wellpath Report

Barry Greathouse A BRK 8H AWP Proj: 16959'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot #8H
SOUTHWESTERN ENERGY	Slot
Brooke County, WV	Well
Brooke	Wellbore
Barry Greathouse A BRK Pad	

WELLPATH DATA (194 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]
13173.00	89.750	157.300	5899.09	8507.87	-7703.90	3616.44	1745789.09	14589000.20	40°10'13.366"N	80°37'22.079"W	8510.51	154.853	2.09	0.16	2.09
13264.00	89.850	158.690	5899.41	8598.83	-7788.27	3650.54	1745823.17	14588915.86	40°10'12.531"N	80°37'21.644"W	8601.37	154.886	1.53	0.11	1.53
13356.00	89.940	161.820	5899.58	8690.59	-7874.85	3681.61	1745854.23	14588829.32	40°10'11.674"N	80°37'21.249"W	8692.96	154.943	3.40	0.10	3.40
13449.00	90.490	162.650	5899.23	8783.09	-7963.41	3709.99	1745882.60	14588740.79	40°10'10.798"N	80°37'20.888"W	8785.21	155.020	1.07	0.59	0.89
13542.00	90.710	161.710	5898.26	8875.59	-8051.95	3738.45	1745911.05	14588652.29	40°10'09.922"N	80°37'20.526"W	8877.49	155.095	1.04	0.24	-1.01
13635.00	90.710	161.370	5897.10	8968.19	-8140.15	3767.89	1745940.48	14588564.12	40°10'09.049"N	80°37'20.152"W	8969.90	155.162	0.37	0.00	-0.37
13727.00	89.780	161.430	5896.71	9059.82	-8227.35	3797.24	1745969.81	14588476.96	40°10'08.186"N	80°37'19.779"W	9061.36	155.225	1.01	-0.01	0.07
13816.00	89.820	161.110	5897.02	9148.48	-8311.63	3825.81	1745998.38	14588392.70	40°10'07.352"N	80°37'19.415"W	9149.87	155.284	0.36	0.04	-0.36
13909.00	89.850	161.590	5897.29	9241.12	-8399.75	3855.55	1746028.11	14588304.62	40°10'06.480"N	80°37'19.037"W	9242.35	155.344	0.52	0.03	0.52
13998.00	89.910	162.540	5897.48	9329.67	-8484.42	3882.96	1746055.50	14588219.98	40°10'05.642"N	80°37'18.688"W	9330.75	155.408	1.07	0.07	1.07
14088.00	90.250	163.230	5897.35	9419.07	-8570.44	3909.45	1746081.98	14588134.00	40°10'04.791"N	80°37'18.352"W	9419.99	155.480	0.85	0.38	0.77
14177.00	90.000	163.070	5897.16	9507.43	-8655.62	3935.24	1746107.77	14588048.86	40°10'03.948"N	80°37'18.024"W	9508.20	155.551	0.33	-0.28	-0.18
14266.00	90.180	163.230	5897.02	9595.79	-8740.79	3961.04	1746133.55	14587963.71	40°10'03.105"N	80°37'17.697"W	9596.42	155.622	0.27	0.20	0.18
14355.00	89.940	162.430	5896.92	9684.21	-8825.83	3987.32	1746159.82	14587878.71	40°10'02.264"N	80°37'17.363"W	9684.72	155.688	0.94	-0.27	-0.90
14444.00	89.780	161.190	5897.14	9772.79	-8910.38	4015.10	1746187.59	14587794.19	40°10'01.427"N	80°37'17.010"W	9773.22	155.743	1.40	-0.18	-1.39
14533.00	89.970	159.810	5897.33	9861.55	-8994.27	4044.81	1746217.29	14587710.33	40°10'00.597"N	80°37'16.632"W	9861.91	155.786	1.57	0.21	-1.55
14623.00	89.820	158.800	5897.50	9951.42	-9078.46	4076.61	1746249.08	14587626.17	40°09'59.764"N	80°37'16.227"W	9951.74	155.818	1.13	-0.17	-1.12
14711.00	89.820	158.880	5897.78	10039.33	-9160.53	4108.38	1746280.83	14587544.14	40°09'58.951"N	80°37'15.822"W	10039.62	155.844	0.09	0.00	0.09
14799.00	89.970	159.020	5897.94	10127.24	-9242.65	4139.98	1746312.43	14587462.04	40°09'58.138"N	80°37'15.419"W	10127.49	155.871	0.23	0.17	0.16
14888.00	90.120	158.070	5897.87	10216.17	-9325.49	4172.54	1746344.97	14587379.24	40°09'57.318"N	80°37'15.005"W	10216.40	155.895	1.08	0.17	-1.07
14978.00	89.880	157.640	5897.87	10306.13	-9408.85	4206.46	1746378.88	14587295.92	40°09'56.493"N	80°37'14.572"W	10306.34	155.912	0.55	-0.27	-0.48
15066.00	89.780	157.530	5898.13	10394.11	-9490.20	4240.02	1746412.42	14587214.60	40°09'55.688"N	80°37'14.144"W	10394.31	155.926	0.17	-0.11	-0.13
15156.00	89.780	156.380	5898.47	10484.10	-9573.01	4275.25	1746447.64	14587131.81	40°09'54.868"N	80°37'13.695"W	10484.29	155.935	1.28	0.00	-1.28
15245.00	89.660	155.170	5898.91	10573.09	-9654.17	4311.77	1746484.14	14587050.69	40°09'54.064"N	80°37'13.229"W	10573.29	155.933	1.37	-0.13	-1.36
15333.00	89.850	154.470	5899.29	10661.06	-9733.81	4349.21	1746521.57	14586971.08	40°09'53.276"N	80°37'12.752"W	10661.27	155.924	0.82	0.22	-0.80
15423.00	89.630	154.060	5899.69	10751.01	-9814.88	4388.28	1746560.63	14586890.04	40°09'52.473"N	80°37'12.253"W	10751.23	155.910	0.52	-0.24	-0.46
15513.00	89.850	153.880	5900.10	10840.93	-9895.75	4427.78	1746600.11	14586809.20	40°09'51.672"N	80°37'11.748"W	10841.18	155.894	0.32	0.24	-0.20
15602.00	89.510	154.190	5900.60	10929.86	-9975.77	4466.74	1746639.06	14586729.22	40°09'50.880"N	80°37'11.251"W	10930.13	155.879	0.52	-0.38	0.35
15691.00	89.380	156.710	5901.46	11018.84	-10056.71	4503.72	1746676.02	14586648.31	40°09'50.079"N	80°37'10.779"W	11019.12	155.876	2.84	-0.15	2.83
15784.00	89.420	158.630	5902.44	11111.81	-10142.73	4539.05	1746711.34	14586562.32	40°09'49.227"N	80°37'10.329"W	11112.06	155.891	2.06	0.04	2.06

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Barry Greathouse A BRK 8H AWP Proj: 16959'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #8H
SOUTHWESTERN ENERGY	Well	Barry Greathouse A BRK 8H
Brooke County, WV	Wellbore	Barry Greathouse A BRK 8H AWB
Brooke		
Barry Greathouse A BRK Pad		

WELLPATH DATA (194 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]
15876.00	89.350	161.020	5903.42	11203.62	-10229.07	4570.78	1746743.05	14586476.01	40°09'48.372"N	80°37'09.925"W	11203.84	155.923	2.60	-0.08	2.60
15969.00	89.450	161.900	5904.40	11296.23	-10317.24	4600.34	1746772.61	14586387.88	40°09'47.500"N	80°37'09.549"W	11296.40	155.968	0.95	0.11	0.95
16062.00	89.450	162.200	5905.29	11388.76	-10405.71	4629.00	1746801.26	14586299.44	40°09'46.624"N	80°37'09.185"W	11388.88	156.018	0.32	0.00	0.32
16154.00	89.600	162.340	5906.05	11480.25	-10493.34	4657.02	1746829.26	14586211.85	40°09'45.757"N	80°37'08.829"W	11480.33	156.068	0.22	0.16	0.15
16247.00	89.540	164.120	5906.75	11572.56	-10582.38	4683.85	1746856.08	14586122.85	40°09'44.876"N	80°37'08.488"W	11572.60	156.125	1.92	-0.06	1.91
16340.00	89.450	162.440	5907.57	11664.86	-10671.44	4710.61	1746882.83	14586033.82	40°09'43.995"N	80°37'08.148"W	11664.88	156.182	1.81	-0.10	-1.81
16433.00	89.480	159.880	5908.44	11757.51	-10759.44	4740.63	1746912.84	14585945.85	40°09'43.124"N	80°37'07.766"W	11757.52	156.222	2.75	0.03	-2.75
16525.00	89.630	159.140	5909.15	11849.36	-10845.62	4772.84	1746945.03	14585859.70	40°09'42.271"N	80°37'07.356"W	11849.36	156.247	0.82	0.16	-0.80
16618.00	89.660	159.260	5909.73	11942.24	-10932.56	4805.86	1746978.04	14585772.80	40°09'41.411"N	80°37'06.936"W	11942.24	156.270	0.13	0.03	0.13
16711.00	90.220	159.450	5909.83	12035.11	-11019.58	4838.65	1747010.82	14585685.81	40°09'40.549"N	80°37'06.518"W	12035.11	156.294	0.64	0.60	0.20
16803.00	89.750	158.990	5909.85	12126.98	-11105.60	4871.29	1747043.45	14585599.83	40°09'39.698"N	80°37'06.103"W	12126.99	156.316	0.71	-0.51	-0.50
16896.00	89.750	158.260	5910.26	12219.90	-11192.20	4905.18	1747077.33	14585513.26	40°09'38.841"N	80°37'05.671"W	12219.91	156.334	0.78	0.00	-0.78
16934.00	89.630	157.950	5910.46	12257.88	-11227.46	4919.36	1747091.49	14585478.01	40°09'38.492"N	80°37'05.490"W	12257.89	156.339	0.87	-0.32	-0.82
16959.00	89.630	157.950	5910.62	12282.87	-11250.63	4928.74	1747100.88	14585454.85	40°09'38.262"N	80°37'05.371"W	12282.88	156.342	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Barry Greathouse A BRK 8H AWB Ref Wellpath: Barry Greathouse A BRK 8H AWP Proj: 16959'

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	-0.01	-0.08
17.5in Open Hole	100.00	375.00	275.00	100.00	374.98	-0.01	-0.08	0.30	-2.61
13.375in Casing Surface	26.00	375.00	349.00	26.00	374.98	0.00	0.00	0.30	-2.61
12.25in Open Hole	375.00	1638.00	1263.00	374.98	1626.49	0.30	-2.61	80.53	119.99
9.625in Casing Intermediate	26.00	1638.00	1612.00	26.00	1626.49	0.00	0.00	80.53	119.99
8.75in Open Hole	1638.00	6594.00	4956.00	1626.49	5849.79	80.53	119.99	-1577.73	1237.64
8.5in Open Hole	6594.00	16959.00	10365.00	5849.79	5910.62	-1577.73	1237.64	-11250.63	4928.74
5.5in Casing Production	26.00	16959.00	16933.00	26.00	5910.62	0.00	0.00	-11250.63	4928.74

REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #8H
SOUTHWESTERN ENERGY	Well	Barry Greathouse A BRK 8H
Area	Wellbore	Barry Greathouse A BRK 8H AWB
Field		
Facility		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Barry Greathouse A BRK 8H LP Rev-6	5859.99	-1491.60	1197.35	1743370.95	14595210.08	40°11'14.856"N	80°37'52.908"W	point
Barry Greathouse A BRK 8H BHL Rev-5	5921.89	-11246.75	4942.82	1747114.95	14585458.73	40°09'38.300"N	80°37'05.189"W	point

WELLPATH COMPOSITION - Ref Wellbore: Barry Greathouse A BRK 8H AWB Ref Wellpath: Barry Greathouse A BRK 8H AWP Proj: 16959'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
26.00	331.00	OWSG MWD rev2 + HRGM	01 Premier MWD <17-1/2"> (149'-331')	Barry Greathouse A BRK 8H AWB
331.00	1582.00	OWSG MWD rev2 + HRGM	02 Premier MWD <12-1/4"> (331')(421'-1582')	Barry Greathouse A BRK 8H AWB
1582.00	6533.00	OWSG MWD rev2 + HRGM	03 Premier MWD <8-3/4"> (1582')(1671'-6533')	Barry Greathouse A BRK 8H AWB
6533.00	16934.00	BHI AutoTrak Curve (Short)	04 BH AT Curve <8-1/2"> (6533')(6611'-16934')	Barry Greathouse A BRK 8H AWB
16934.00	16959.00	Blind Drilling (std)	Projection to bit	Barry Greathouse A BRK 8H AWB

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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #8H
SOUTHWESTERN ENERGY	Well	Barry Greathouse A BRK 8H
Brooke County, WV	Wellbore	Barry Greathouse A BRK 8H AWB
Brooke		
Barry Greathouse A BRK Pad		

COMMENTS

Wellpath general comments

API: 47-009-00231-0000
 BH Job #: 109836789
 Rig: SDC 40
 Duration: 5/28/2019-5/30/2019
 Premier MWD <17-1/2"> (149'-331')
 Premier MWD <12-1/4"> (331')(421'-1582')
 Premier MWD <8-3/4"> (1582')(1671'-6533')
 BH AT Curve <8-1/2"> (6533')(6611'-16934')
 Projected MD at TD: 16959'