



Actual Wellpath Report

Gerald Gourley BRK 1H awp Proj: 31466'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	EXPAND ENERGY	Well	Gerald Gourley BRK 1H
Field	Brooke WV (NAD27 SP)	API	47-009-00345-00-00
Facility	Gerald Gourley BRK Pad	Wellbore	Gerald Gourley BRK 1H AWB
Slot	1H		

REPORT SETUP INFORMATION			
Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Tranlam
Scale	1.000014	Report Generated	4/15/2025 at 11:49:19 AM
Convergence at slot	0.68° West	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	1704398.86	664050.73	40°19'6.0007"N	80°33'36.0899"W
Facility Reference Pt			1704398.86	664050.73	40°19'6.0007"N	80°33'36.0899"W
Field Reference Pt			1931053.01	433518.91	39°41'24.0000"N	79°44'42.0000"W

WELLPATH DATUM			
Calculation method	Minimum curvature	EDC 41 (KB) to Facility Vertical Datum	1180.80ft
Horizontal Reference Pt	Slot	EDC 41 (KB) to Mean Sea Level	1180.80ft
Vertical Reference Pt	EDC 41 (KB)	EDC 41 (KB) to Ground Level at Slot (1H)	26.00ft
MD Reference Pt	EDC 41 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	342.33°

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Slot	1H		

WELLPATH DATA (342 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]
0.00†	0.000	133.070	0.00	0.00	0.00	0.00	1704398.86	664050.73	40°19'6.0007"N	80°33'36.0899"W	0.00	0.000	0.00
26.00	0.000	133.070	26.00	0.00	0.00	0.00	1704398.86	664050.73	40°19'6.0007"N	80°33'36.0899"W	0.00	0.000	0.00
50.00	0.730	133.070	50.00	-0.13	-0.10	0.11	1704398.97	664050.63	40°19'5.9997"N	80°33'36.0884"W	0.15	133.070	3.04
100.00	0.720	143.910	100.00	-0.71	-0.58	0.53	1704399.39	664050.15	40°19'5.9951"N	80°33'36.0829"W	0.78	137.402	0.27
150.00	0.700	125.410	149.99	-1.25	-1.01	0.96	1704399.82	664049.72	40°19'5.9909"N	80°33'36.0773"W	1.39	136.257	0.46
200.00	0.430	136.390	199.99	-1.66	-1.32	1.34	1704400.20	664049.41	40°19'5.9878"N	80°33'36.0723"W	1.88	134.520	0.58
250.00	0.230	133.940	249.99	-1.92	-1.52	1.54	1704400.40	664049.21	40°19'5.9858"N	80°33'36.0697"W	2.17	134.655	0.40
300.00	0.190	120.190	299.99	-2.07	-1.64	1.69	1704400.55	664049.09	40°19'5.9848"N	80°33'36.0678"W	2.35	134.119	0.13
350.00	0.090	177.150	349.99	-2.17	-1.72	1.76	1704400.62	664049.01	40°19'5.9840"N	80°33'36.0669"W	2.46	134.279	0.32
400.00	0.140	289.080	399.99	-2.19	-1.76	1.70	1704400.56	664048.97	40°19'5.9836"N	80°33'36.0676"W	2.45	135.920	0.34
450.00	0.070	354.500	449.99	-2.14	-1.73	1.64	1704400.50	664049.00	40°19'5.9838"N	80°33'36.0684"W	2.38	136.534	0.30
500.00	0.090	78.940	499.99	-2.12	-1.69	1.67	1704400.53	664049.04	40°19'5.9842"N	80°33'36.0680"W	2.38	135.264	0.21
530.00	0.030	353.810	529.99	-2.11	-1.68	1.70	1704400.56	664049.05	40°19'5.9844"N	80°33'36.0677"W	2.38	134.665	0.30
642.00	0.920	294.000	641.98	-1.48	-1.28	0.87	1704399.73	664049.45	40°19'5.9882"N	80°33'36.0784"W	1.55	145.790	0.81
688.00	1.500	310.490	687.97	-0.73	-0.74	0.08	1704398.94	664049.99	40°19'5.9934"N	80°33'36.0888"W	0.74	174.179	1.46
778.00	3.050	307.220	777.90	2.23	1.47	-2.73	1704396.13	664052.20	40°19'6.0150"N	80°33'36.1253"W	3.10	298.386	1.73
869.00	5.340	305.840	868.65	7.62	5.42	-8.09	1704390.77	664056.15	40°19'6.0533"N	80°33'36.1951"W	9.74	303.816	2.52
961.00	7.640	301.260	960.05	15.67	11.10	-16.79	1704382.07	664061.83	40°19'6.1084"N	80°33'36.3083"W	20.13	303.470	2.56
1052.00	9.480	298.060	1050.04	25.60	17.76	-28.57	1704370.29	664068.49	40°19'6.1729"N	80°33'36.4614"W	33.64	301.869	2.09
1143.00	11.160	294.450	1139.56	36.87	24.93	-43.20	1704355.66	664075.66	40°19'6.2421"N	80°33'36.6514"W	49.88	299.991	1.98
1234.00	12.300	289.890	1228.66	48.69	31.88	-60.34	1704338.52	664082.61	40°19'6.3087"N	80°33'36.8736"W	68.24	297.849	1.61
1326.00	12.850	284.620	1318.46	60.13	37.79	-79.45	1704319.41	664088.52	40°19'6.3649"N	80°33'37.1212"W	87.98	295.440	1.38
1416.00	11.840	277.850	1406.38	69.45	41.58	-98.28	1704300.58	664092.31	40°19'6.4001"N	80°33'37.3649"W	106.72	292.932	1.96
1455.00	11.910	274.930	1444.55	72.72	42.47	-106.26	1704292.60	664093.20	40°19'6.4080"N	80°33'37.4679"W	114.43	291.788	1.55
1614.00	10.870	284.520	1600.43	87.02	47.64	-137.12	1704261.74	664098.37	40°19'6.4555"N	80°33'37.8671"W	145.16	289.160	1.36
1704.00	11.750	294.890	1688.69	97.74	53.63	-153.65	1704245.21	664104.36	40°19'6.5127"N	80°33'38.0814"W	162.74	289.241	2.46
1795.00	13.450	297.530	1777.49	111.51	62.42	-171.44	1704227.42	664113.15	40°19'6.5975"N	80°33'38.3124"W	182.45	290.006	1.97
1885.00	14.530	296.930	1864.82	126.87	72.37	-190.79	1704208.07	664123.10	40°19'6.6936"N	80°33'38.5637"W	204.05	290.773	1.21
1976.00	13.950	289.510	1953.03	141.51	81.21	-211.31	1704187.55	664131.94	40°19'6.7785"N	80°33'38.8299"W	226.37	291.022	2.10
2066.00	13.810	283.810	2040.41	153.68	87.39	-231.96	1704166.89	664135.12	40°19'6.8372"N	80°33'39.0975"W	247.88	290.644	1.53



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Facility	Gerald Gourley BRK Pad	Wellbore	Gerald Gourley BRK 1H AWB
Slot	1H		

WELLPATH DATA (342 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 [1/100ft]
2157.00	12.580	283.980	2129.01	164.55	92.38	-252.13	1704146.73	664143.11	40°19'6.8841"N	80°33'39.3586"W	288.52	290.122	1.35
2247.00	11.040	289.340	2217.10	174.88	97.60	-269.77	1704129.08	664148.33	40°19'6.9336"N	80°33'39.5871"W	286.88	289.889	2.10
2338.00	11.250	293.300	2306.39	185.94	103.99	-286.15	1704112.71	664154.72	40°19'6.9949"N	80°33'39.7995"W	304.46	289.972	0.87
2428.00	12.530	294.920	2394.45	198.31	111.58	-303.07	1704095.79	664162.31	40°19'7.0679"N	80°33'40.0190"W	322.95	290.212	1.47
2522.00	13.920	295.080	2485.96	212.88	120.67	-322.55	1704076.30	664171.40	40°19'7.1555"N	80°33'40.2720"W	344.39	290.511	1.48
2612.00	14.520	292.540	2573.20	227.51	129.58	-342.78	1704056.08	664180.31	40°19'7.2412"N	80°33'40.5344"W	366.46	290.708	0.96
2703.00	14.490	288.220	2661.30	241.55	137.51	-364.13	1704034.72	664188.25	40°19'7.3171"N	80°33'40.8112"W	389.23	290.689	1.19
2793.00	13.670	287.090	2748.60	254.22	144.16	-384.99	1704013.86	664194.89	40°19'7.3803"N	80°33'41.0815"W	411.10	290.528	0.96
2885.00	12.730	285.400	2838.17	265.95	150.05	-405.16	1703993.70	664200.78	40°19'7.4361"N	80°33'41.3427"W	432.05	290.322	1.10
2975.00	12.420	286.480	2926.01	276.79	155.42	-424.00	1703974.86	664206.15	40°19'7.4870"N	80°33'41.5868"W	451.59	290.131	0.43
3066.00	11.860	294.370	3014.98	288.54	162.05	-441.90	1703956.95	664212.79	40°19'7.5505"N	80°33'41.8189"W	470.68	290.139	1.93
3156.00	11.450	296.420	3103.12	300.95	169.85	-458.33	1703940.53	664220.58	40°19'7.6255"N	80°33'42.0321"W	488.79	290.334	0.65
3247.00	12.540	294.280	3192.14	313.84	177.93	-475.42	1703923.43	664228.66	40°19'7.7034"N	80°33'42.2540"W	507.63	290.518	1.29
3337.00	13.880	296.680	3279.75	327.92	186.79	-493.97	1703904.88	664237.52	40°19'7.7888"N	80°33'42.4948"W	528.11	290.714	1.61
3428.00	14.140	293.840	3368.05	342.91	196.19	-513.89	1703884.96	664246.92	40°19'7.8793"N	80°33'42.7534"W	550.07	290.895	0.81
3521.00	13.890	289.240	3458.28	357.15	204.46	-534.82	1703864.03	664255.19	40°19'7.9586"N	80°33'43.0249"W	572.57	290.921	1.23
3613.00	13.000	290.680	3547.76	370.20	211.75	-554.93	1703843.92	664262.48	40°19'8.0283"N	80°33'43.2855"W	593.96	290.886	1.03
3703.00	12.360	290.480	3635.56	382.43	218.69	-573.43	1703825.43	664269.43	40°19'8.0948"N	80°33'43.5253"W	613.71	290.876	0.71
3794.00	12.600	289.450	3724.41	394.44	225.41	-591.91	1703806.94	664276.14	40°19'8.1589"N	80°33'43.7649"W	633.38	290.848	0.36
3885.00	12.800	288.160	3813.19	406.33	231.85	-610.85	1703788.01	664282.59	40°19'8.2204"N	80°33'44.0104"W	653.37	290.785	0.38
3977.00	13.420	286.830	3902.79	418.34	238.12	-630.75	1703768.10	664288.85	40°19'8.2800"N	80°33'44.2683"W	674.20	290.683	0.75
4068.00	13.600	284.450	3991.27	430.01	243.85	-651.22	1703747.63	664294.58	40°19'8.3342"N	80°33'44.5334"W	695.38	290.528	0.64
4158.00	12.640	286.140	4078.92	441.12	249.23	-670.92	1703727.93	664299.96	40°19'8.3851"N	80°33'44.7886"W	715.72	290.378	1.15
4249.00	12.870	291.250	4167.68	453.02	255.67	-689.93	1703708.92	664306.40	40°19'8.4465"N	80°33'45.0349"W	735.78	290.333	1.26
4342.00	12.800	290.100	4258.36	465.84	262.96	-709.26	1703689.59	664313.70	40°19'8.5163"N	80°33'45.2855"W	756.44	290.342	0.28
4433.00	13.510	289.240	4346.97	478.40	269.93	-728.76	1703670.09	664320.66	40°19'8.5829"N	80°33'45.5384"W	777.15	290.324	0.81
4523.00	14.030	287.970	4434.38	491.07	276.76	-749.07	1703649.78	664327.49	40°19'8.6480"N	80°33'45.8015"W	798.56	290.278	0.67
4614.00	13.910	285.360	4522.69	503.46	283.06	-770.11	1703628.74	664333.79	40°19'8.7078"N	80°33'46.0740"W	820.48	290.181	0.70
4705.00	13.500	288.740	4611.10	515.73	289.37	-790.71	1703608.14	664340.10	40°19'8.7677"N	80°33'46.3410"W	842.00	290.101	0.99
4795.00	13.130	289.670	4698.68	528.16	296.19	-810.29	1703588.56	664346.92	40°19'8.8328"N	80°33'46.5947"W	862.72	290.079	0.48



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4887.00	12.910	286.250	4788.32	540.24	302.58	-829.99	1703568.86	664353.31	40°19'8.8937"N	80°33'46.8501"W	883.43	290.030	0.87
4977.00	12.710	289.680	4876.08	551.85	308.73	-848.97	1703549.88	664359.46	40°19'8.9522"N	80°33'47.0960"W	903.36	289.984	0.87
5069.00	11.980	289.590	4965.95	563.77	315.34	-867.50	1703531.35	664366.07	40°19'9.0154"N	80°33'47.3361"W	923.03	289.976	0.79
5135.00	11.500	287.150	5030.57	571.68	319.57	-880.24	1703518.61	664370.31	40°19'9.0557"N	80°33'47.5012"W	936.45	289.954	1.05
5226.00	13.310	288.070	5119.44	582.98	325.50	-898.86	1703499.99	664376.23	40°19'9.1121"N	80°33'47.7426"W	955.98	289.906	2.00
5317.00	17.580	308.880	5207.20	600.58	337.39	-919.54	1703479.30	664388.12	40°19'9.2272"N	80°33'48.0114"W	979.49	290.148	7.62
5407.00	23.090	319.260	5291.59	628.19	359.31	-941.67	1703457.18	664410.05	40°19'9.4412"N	80°33'48.3003"W	1007.89	290.885	7.30
5498.00	32.680	324.790	5371.94	668.13	392.99	-967.54	1703431.31	664443.73	40°19'9.7710"N	80°33'48.6395"W	1044.31	292.106	10.90
5589.00	39.990	329.130	5445.21	720.11	438.23	-996.76	1703402.09	664488.97	40°19'10.2146"N	80°33'49.0235"W	1088.84	293.733	8.51
5680.00	47.960	332.310	5510.65	781.96	493.35	-1027.51	1703371.33	664544.08	40°19'10.7556"N	80°33'49.4290"W	1139.81	295.647	9.09
5771.00	55.960	335.410	5566.69	852.79	557.67	-1058.96	1703339.89	664608.40	40°19'11.3875"N	80°33'49.8448"W	1196.83	297.772	9.19
5862.00	64.000	337.920	5612.19	931.13	629.97	-1090.08	1703308.77	664680.71	40°19'12.0983"N	80°33'50.2575"W	1259.02	300.024	9.15
5953.00	71.710	340.000	5648.47	1015.20	708.59	-1120.28	1703278.57	664759.33	40°19'12.8716"N	80°33'50.6593"W	1325.56	302.314	8.73
6044.00	79.150	340.920	5669.34	1103.17	791.51	-1149.77	1703249.07	664842.25	40°19'13.6875"N	80°33'51.0528"W	1395.88	304.544	8.22
6134.00	86.630	342.690	5680.48	1192.40	876.27	-1177.70	1703221.14	664927.01	40°19'14.5218"N	80°33'51.4263"W	1467.93	306.651	8.56
6226.00	90.570	342.970	5682.72	1284.35	964.13	-1204.85	1703194.00	665014.87	40°19'15.3867"N	80°33'51.7901"W	1543.11	308.667	4.29
6316.00	90.670	343.180	5681.75	1374.34	1050.22	-1231.05	1703167.80	665100.97	40°19'16.2344"N	80°33'52.1415"W	1618.16	310.468	0.26
6407.00	90.730	343.650	5680.64	1465.32	1137.43	-1257.02	1703141.83	665188.17	40°19'17.0931"N	80°33'52.4901"W	1695.24	312.141	0.52
6496.00	90.670	343.300	5679.53	1556.29	1224.67	-1282.90	1703115.94	665275.41	40°19'17.9520"N	80°33'52.8376"W	1773.60	313.670	0.39
6589.00	90.700	343.480	5678.44	1647.27	1311.86	-1308.93	1703089.92	665362.60	40°19'18.8106"N	80°33'53.1869"W	1853.18	315.064	0.18
6680.00	90.610	343.490	5677.40	1738.24	1399.09	-1334.81	1703064.03	665449.84	40°19'19.6695"N	80°33'53.5344"W	1933.70	316.347	0.10
6771.00	90.080	343.200	5676.85	1829.23	1486.27	-1360.89	1703037.95	665537.02	40°19'20.5279"N	80°33'53.8844"W	2015.20	317.522	0.66
6862.00	90.420	341.570	5676.45	1920.22	1573.00	-1388.43	1703010.42	665623.75	40°19'21.3817"N	80°33'54.2532"W	2098.11	318.566	1.83
6952.00	90.450	339.600	5675.77	2010.18	1657.88	-1418.34	1702980.50	665708.63	40°19'22.2169"N	80°33'54.6523"W	2181.80	319.452	2.19
7043.00	90.540	342.080	5674.98	2101.13	1743.83	-1448.21	1702950.64	665794.58	40°19'23.0626"N	80°33'55.0510"W	2266.77	320.291	2.73
7133.00	90.730	342.260	5673.98	2191.13	1829.50	-1475.76	1702923.08	665880.25	40°19'23.9060"N	80°33'55.4198"W	2350.52	321.109	0.29
7223.00	90.670	342.290	5672.89	2281.12	1915.22	-1503.16	1702895.68	665965.97	40°19'24.7498"N	80°33'55.7867"W	2434.66	321.873	0.07
7313.00	91.010	342.420	5671.57	2371.11	2000.98	-1530.44	1702868.41	666051.73	40°19'25.5940"N	80°33'56.1519"W	2519.16	322.590	0.40
7404.00	90.970	342.660	5669.99	2462.10	2087.77	-1557.74	1702841.11	666138.53	40°19'26.4484"N	80°33'56.5177"W	2604.87	323.272	0.27
7495.00	91.220	342.370	5668.25	2553.08	2174.55	-1585.07	1702813.77	666225.31	40°19'27.3027"N	80°33'56.8839"W	2690.93	323.911	0.42



Actual Wellpath Report

Gerald Gourley BRK 1H awp Proj: 31466'
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OCT 15 2025
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REFERENCE WELLPATH IDENTIFICATION

Operator	EXPAND ENERGY	Well	Gerald Gourley BRK 1H
Field	Brooke WV (NAD27 SP)	API	47-009-00345-00-00
Facility	Gerald Gourley BRK Pad	Wellbore	Gerald Gourley BRK 1H AWB
Slot	1H		

WELLPATH DATA (342 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]
7586.00	90.610	342.840	5666.80	2644.07	2261.38	-1612.27	1702786.57	666312.13	40°19'28.1574"N	80°33'57.2483"W	2777.27	324.513	0.85
7678.00	90.850	342.130	5665.83	2736.06	2349.10	-1639.96	1702758.88	666399.86	40°19'29.0210"N	80°33'57.6192"W	2864.92	325.080	0.81
7768.00	90.670	342.530	5664.44	2826.05	2434.85	-1667.28	1702731.57	666485.61	40°19'29.8651"N	80°33'57.9849"W	2950.98	325.598	0.49
7859.00	90.760	342.250	5663.30	2917.04	2521.58	-1694.80	1702704.04	666572.34	40°19'30.7189"N	80°33'58.3536"W	3038.21	326.094	0.32
7949.00	90.880	342.230	5662.01	3007.03	2607.28	-1722.25	1702676.59	666658.04	40°19'31.5625"N	80°33'58.7211"W	3124.75	326.553	0.14
8130.00	90.610	342.320	5659.66	3188.02	2779.67	-1777.35	1702621.48	666830.44	40°19'33.2595"N	80°33'59.4589"W	3299.33	327.405	0.16
8222.00	90.700	341.710	5658.61	3280.01	2867.17	-1805.76	1702593.08	666917.94	40°19'34.1207"N	80°33'59.8390"W	3388.43	327.797	0.67
8313.00	90.270	337.370	5657.84	3370.88	2952.41	-1837.56	1702561.28	667003.17	40°19'34.9592"N	80°34'0.2626"W	3477.55	328.102	4.79
8405.00	90.850	342.730	5656.94	3462.77	3038.85	-1868.94	1702529.90	667089.62	40°19'35.8097"N	80°34'0.6810"W	3567.57	328.408	5.86
8496.00	90.610	342.500	5655.78	3553.76	3125.69	-1896.12	1702502.71	667176.45	40°19'36.6646"N	80°34'1.0453"W	3655.85	328.758	0.37
8587.00	91.100	342.700	5654.42	3644.75	3212.51	-1923.33	1702475.50	667263.28	40°19'37.5193"N	80°34'1.4099"W	3744.26	329.091	0.58
8679.00	90.910	342.400	5652.81	3736.73	3300.27	-1950.92	1702447.92	667351.03	40°19'38.3832"N	80°34'1.7794"W	3833.78	329.411	0.39
8770.00	90.610	342.090	5651.60	3827.72	3386.92	-1978.67	1702420.17	667437.69	40°19'39.2362"N	80°34'2.1509"W	3922.55	329.706	0.47
8862.00	90.670	342.200	5650.57	3919.72	3474.49	-2006.87	1702391.96	667525.26	40°19'40.0981"N	80°34'2.5285"W	4012.43	329.989	0.14
8954.00	90.610	342.460	5649.54	4011.71	3562.14	-2034.80	1702364.04	667612.91	40°19'40.9610"N	80°34'2.9025"W	4102.35	330.264	0.29
9045.00	91.130	342.910	5648.16	4102.70	3649.01	-2061.88	1702336.96	667699.78	40°19'41.8161"N	80°34'3.2654"W	4191.25	330.531	0.76
9137.00	91.340	342.490	5646.18	4194.67	3736.82	-2089.23	1702309.61	667787.60	40°19'42.6807"N	80°34'3.6320"W	4281.21	330.791	0.51
9229.00	90.540	342.600	5644.67	4286.66	3824.57	-2116.82	1702282.01	667875.35	40°19'43.5445"N	80°34'4.0017"W	4371.30	331.036	0.88
9320.00	90.790	342.330	5643.61	4377.65	3911.34	-2144.24	1702254.50	667962.12	40°19'44.3986"N	80°34'4.3690"W	4460.53	331.268	0.40
9412.00	91.070	342.270	5642.12	4469.64	3998.97	-2172.20	1702226.63	668049.75	40°19'45.2613"N	80°34'4.7435"W	4550.85	331.490	0.31
9503.00	91.190	342.230	5640.33	4560.62	4085.62	-2199.94	1702198.89	668136.40	40°19'46.1142"N	80°34'5.1149"W	4640.27	331.699	0.14
9595.00	91.070	342.710	5638.51	4652.61	4173.33	-2227.65	1702171.19	668224.11	40°19'46.9777"N	80°34'5.4861"W	4730.66	331.908	0.54
9687.00	90.670	342.220	5637.11	4744.59	4261.05	-2255.36	1702143.47	668311.83	40°19'47.8411"N	80°34'5.8574"W	4821.12	332.108	0.69
9778.00	90.610	342.230	5636.10	4835.59	4347.70	-2283.14	1702115.69	668398.48	40°19'48.6941"N	80°34'6.2293"W	4910.72	332.294	0.07
9870.00	90.610	341.980	5635.12	4927.58	4435.24	-2311.41	1702087.43	668486.03	40°19'49.5558"N	80°34'6.6077"W	5001.40	332.474	0.27
9961.00	91.130	342.490	5633.74	5018.57	4521.89	-2339.17	1702059.66	668572.68	40°19'50.4087"N	80°34'6.9794"W	5091.09	332.648	0.80
10053.00	90.730	342.240	5632.24	5110.56	4609.56	-2367.04	1702031.80	668660.34	40°19'51.2717"N	80°34'7.3527"W	5181.78	332.819	0.51
10145.00	90.760	342.510	5631.05	5202.55	4697.23	-2394.89	1702003.94	668748.02	40°19'52.1348"N	80°34'7.7258"W	5272.52	332.985	0.30
10237.00	90.730	341.830	5629.85	5294.54	4784.81	-2423.06	1701975.77	668835.59	40°19'52.9968"N	80°34'8.1029"W	5363.35	333.142	0.74
10328.00	90.640	342.180	5628.76	5385.53	4871.35	-2451.17	1701947.66	668922.13	40°19'53.8486"N	80°34'8.4791"W	5453.28	333.289	0.40



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Facility	Gerald Gourley BRK Pad	Wellbore	Gerald Gourley BRK 1H AWB
Slot	1H		

WELLPATH DATA (342 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]
10420.00	90.730	342.230	5627.66	5477.53	4958.94	-2479.28	1701919.55	669009.73	40°19'54.7108"N	80°34'8.8556"W	5544.18	333.437	0.11
10512.00	90.640	341.970	5626.56	5569.52	5046.48	-2507.56	1701891.27	669097.27	40°19'55.5725"N	80°34'9.2341"W	5635.14	333.578	0.30
10603.00	90.610	342.330	5625.57	5660.51	5133.09	-2535.45	1701863.38	669163.88	40°19'56.4251"N	80°34'9.6075"W	5725.13	333.713	0.40
10695.00	90.790	342.440	5624.45	5752.51	5220.77	-2563.29	1701835.54	669271.57	40°19'57.2882"N	80°34'9.9804"W	5816.09	333.850	0.23
10787.00	90.790	342.610	5623.18	5844.50	5308.50	-2590.99	1701807.84	669359.29	40°19'58.1517"N	80°34'10.3516"W	5907.06	333.984	0.08
10878.00	90.700	342.700	5621.99	5935.49	5395.33	-2618.19	1701780.64	669446.12	40°19'59.0065"N	80°34'10.7161"W	5997.04	334.114	0.23
10970.00	90.170	342.280	5621.30	6027.49	5483.06	-2645.87	1701752.96	669533.85	40°19'59.8702"N	80°34'11.0870"W	6088.07	334.240	0.74
11061.00	90.110	342.270	5621.07	6118.48	5569.74	-2673.58	1701725.25	669620.54	40°20'0.7234"N	80°34'11.4580"W	6178.19	334.358	0.07
11153.00	90.270	342.280	5620.77	6210.48	5657.37	-2701.59	1701697.24	669708.17	40°20'1.5860"N	80°34'11.8332"W	6269.32	334.474	0.17
11245.00	89.960	342.000	5620.58	6302.48	5744.94	-2729.80	1701669.03	669795.74	40°20'2.4479"N	80°34'12.2109"W	6360.51	334.585	0.45
11336.00	90.760	343.280	5620.01	6393.48	5831.79	-2756.95	1701641.88	669882.59	40°20'3.3029"N	80°34'12.5748"W	6450.62	334.698	1.66
11428.00	89.990	342.230	5619.41	6485.47	5919.65	-2784.23	1701614.60	669970.45	40°20'4.1679"N	80°34'12.9405"W	6541.72	334.811	1.42
11519.00	90.570	342.760	5618.97	6576.47	6006.43	-2811.60	1701587.23	670057.23	40°20'5.0222"N	80°34'13.3072"W	6631.92	334.916	0.86
11610.00	91.560	342.730	5617.27	6667.45	6093.32	-2838.58	1701560.24	670144.12	40°20'5.8776"N	80°34'13.6691"W	6722.06	335.021	1.09
11702.00	90.300	342.550	5615.78	6759.43	6181.12	-2866.03	1701532.80	670231.92	40°20'6.7419"N	80°34'14.0370"W	6813.25	335.124	1.38
11794.00	90.420	342.710	5615.20	6851.43	6268.92	-2893.50	1701505.33	670319.72	40°20'7.6062"N	80°34'14.4051"W	6904.47	335.224	0.22
11885.00	90.790	342.610	5614.24	6942.42	6355.78	-2920.62	1701478.21	670406.58	40°20'8.4613"N	80°34'14.7686"W	6994.71	335.320	0.42
11977.00	90.170	342.650	5613.47	7034.42	6443.58	-2948.08	1701450.74	670494.39	40°20'9.3257"N	80°34'15.1368"W	7085.97	335.415	0.68
12069.00	90.510	342.530	5612.93	7126.42	6531.36	-2975.61	1701423.22	670582.17	40°20'10.1898"N	80°34'15.5057"W	7177.25	335.507	0.39
12160.00	90.610	341.860	5612.04	7217.41	6618.00	-3003.43	1701395.39	670668.81	40°20'11.0426"N	80°34'15.8783"W	7267.64	335.590	0.74
12252.00	91.310	342.420	5610.49	7309.40	6705.55	-3031.64	1701367.18	670756.36	40°20'11.9044"N	80°34'16.2560"W	7359.03	335.672	0.97
12343.00	90.050	342.300	5609.41	7400.39	6792.27	-3059.22	1701339.61	670843.08	40°20'12.7580"N	80°34'16.6254"W	7449.41	335.753	1.39
12435.00	90.420	342.880	5609.04	7492.39	6880.05	-3086.74	1701312.08	670930.86	40°20'13.6222"N	80°34'16.9944"W	7540.76	335.837	0.75
12527.00	89.990	342.220	5608.71	7584.38	6967.82	-3114.33	1701284.49	671018.63	40°20'14.4661"N	80°34'17.3641"W	7632.14	335.917	0.86
12618.00	90.820	342.880	5608.06	7675.38	7054.63	-3141.62	1701257.20	671105.44	40°20'15.3407"N	80°34'17.7298"W	7722.53	335.995	1.17
12710.00	90.330	341.820	5607.14	7767.37	7142.29	-3169.51	1701229.31	671193.10	40°20'16.2036"N	80°34'18.1035"W	7813.97	336.070	1.27
12801.00	90.670	341.890	5606.35	7858.37	7228.76	-3197.85	1701200.97	671279.57	40°20'17.0547"N	80°34'18.4827"W	7904.51	336.136	0.38
12893.00	90.910	347.850	5605.08	7950.23	7317.52	-3221.85	1701176.97	671368.34	40°20'17.9290"N	80°34'18.8063"W	7995.40	336.236	6.48
12984.00	90.210	345.860	5604.19	8040.93	7406.13	-3242.53	1701156.29	671456.95	40°20'18.8021"N	80°34'19.0869"W	8084.85	336.355	2.30
13076.00	90.110	343.190	5603.93	8132.86	7494.79	-3267.06	1701131.76	671545.61	40°20'19.6753"N	80°34'19.4173"W	8175.91	336.447	2.93



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WELLPATH DATA (342 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]
13167.00	90.170	341.370	5603.71	8223.85	7581.47	-3294.75	1701104.07	671632.29	40°20'20.5285"N	80°34'19.7883"W	8266.44	336.511	2.00
13259.00	91.190	343.460	5602.62	8315.84	7669.16	-3322.54	1701076.28	671719.98	40°20'21.3917"N	80°34'20.1607"W	8357.95	336.576	2.53
13351.00	90.510	341.200	5601.25	8407.82	7756.80	-3350.46	1701048.86	671807.62	40°20'22.2544"N	80°34'20.5347"W	8449.47	336.639	2.57
13442.00	91.410	343.510	5599.73	8498.80	7843.50	-3378.04	1701020.78	671894.33	40°20'23.1078"N	80°34'20.9041"W	8540.01	336.699	2.72
13534.00	90.640	341.510	5598.08	8590.78	7931.23	-3405.69	1700993.13	671982.05	40°20'23.9714"N	80°34'21.2746"W	8631.52	336.761	2.33
13625.00	90.610	341.360	5597.09	8681.77	8017.49	-3434.66	1700964.16	672068.31	40°20'24.8204"N	80°34'21.6620"W	8722.21	336.810	0.17
13717.00	90.880	341.380	5595.89	8773.74	8104.66	-3464.04	1700934.77	672155.49	40°20'25.6782"N	80°34'22.0549"W	8813.92	336.857	0.29
13809.00	90.850	341.350	5594.50	8865.72	8191.83	-3493.44	1700905.38	672242.65	40°20'26.5361"N	80°34'22.4479"W	8905.63	336.904	0.05
13901.00	90.790	341.560	5593.19	8957.70	8279.04	-3522.70	1700876.12	672329.87	40°20'27.3944"N	80°34'22.8392"W	8997.33	336.950	0.24
13992.00	90.880	341.120	5591.86	9048.68	8365.25	-3551.81	1700847.01	672416.08	40°20'28.2428"N	80°34'23.2284"W	9088.06	336.994	0.49
14084.00	90.940	341.400	5590.40	9140.65	8452.36	-3581.36	1700817.46	672503.19	40°20'29.1001"N	80°34'23.6234"W	9179.79	337.037	0.31
14175.00	90.820	340.720	5589.00	9231.62	8538.42	-3610.90	1700787.92	672589.25	40°20'29.9470"N	80°34'24.0181"W	9270.56	337.077	0.76
14267.00	90.700	340.960	5587.78	9323.58	8625.32	-3641.09	1700757.73	672676.15	40°20'30.8020"N	80°34'24.4214"W	9362.35	337.113	0.29
14359.00	90.420	340.990	5586.88	9415.55	8712.29	-3671.08	1700727.74	672763.12	40°20'31.6579"N	80°34'24.8220"W	9454.14	337.151	0.31
14450.00	90.390	342.220	5586.24	9506.54	8798.64	-3699.79	1700699.03	672849.47	40°20'32.5077"N	80°34'25.2061"W	9544.87	337.193	1.35
14542.00	90.540	342.270	5585.49	9598.53	8886.25	-3727.85	1700670.97	672937.09	40°20'33.3701"N	80°34'25.5819"W	9636.51	337.242	0.17
14633.00	90.790	342.680	5584.44	9689.53	8973.02	-3755.25	1700643.57	673023.86	40°20'34.2243"N	80°34'25.9492"W	9727.13	337.290	0.53
14725.00	90.730	342.300	5583.22	9781.52	9060.75	-3782.92	1700615.89	673111.59	40°20'35.0879"N	80°34'26.3201"W	9818.74	337.339	0.42
14817.00	91.740	342.450	5581.23	9873.49	9148.41	-3810.77	1700588.04	673199.25	40°20'35.9507"N	80°34'26.6933"W	9910.37	337.386	1.11
14908.00	90.730	342.470	5579.27	9964.47	9235.16	-3838.19	1700560.52	673286.00	40°20'36.8047"N	80°34'27.0607"W	10000.99	337.432	1.11
15092.00	90.760	342.340	5576.88	10148.46	9410.54	-3893.81	1700505.01	673461.38	40°20'38.5310"N	80°34'27.8060"W	10184.30	337.522	0.07
15183.00	90.540	342.280	5575.85	10239.45	9497.23	-3921.46	1700477.36	673548.07	40°20'39.3844"N	80°34'28.1764"W	10274.98	337.564	0.25
15275.00	90.670	342.340	5574.88	10331.44	9584.87	-3949.41	1700449.40	673635.71	40°20'40.2471"N	80°34'28.5509"W	10366.66	337.606	0.16
15367.00	90.540	342.340	5573.90	10423.44	9672.53	-3977.32	1700421.49	673723.38	40°20'41.1100"N	80°34'28.9249"W	10458.34	337.648	0.14
15458.00	90.670	342.310	5572.94	10514.43	9759.23	-4004.95	1700393.87	673810.08	40°20'41.9634"N	80°34'29.2950"W	10549.04	337.688	0.15
15550.00	90.670	342.170	5571.87	10606.43	9846.84	-4033.01	1700365.80	673897.69	40°20'42.8258"N	80°34'29.6709"W	10640.74	337.727	0.15
15641.00	90.790	342.590	5570.71	10697.42	9933.56	-4060.55	1700338.26	673984.41	40°20'43.6794"N	80°34'30.0400"W	10731.44	337.767	0.48
15733.00	90.850	342.400	5569.39	10789.41	10021.29	-4088.22	1700310.59	674072.14	40°20'44.5430"N	80°34'30.4109"W	10823.12	337.807	0.22
15824.00	90.640	341.950	5568.21	10880.40	10107.92	-4116.08	1700282.74	674158.77	40°20'45.3957"N	80°34'30.7840"W	10913.85	337.843	0.55
15916.00	90.670	342.160	5567.16	10972.40	10195.44	-4144.42	1700254.39	674246.29	40°20'46.2571"N	80°34'31.1635"W	11005.60	337.878	0.23



Actual Wellpath Report

Gerald Gourley BRK 1H awp Proj: 31466'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	EXPAND ENERGY	Well	Gerald Gourley BRK 1H
Field	Brooke WV (NAD27 SP)	API	47-009-00345-00-00
Facility	Gerald Gourley BRK Pad	Wellbore	Gerald Gourley BRK 1H AWB
Slot	1H		

WELLPATH DATA (342 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]
16008.00	90.330	341.720	5566.35	11064.39	10282.90	-4172.94	1700225.87	674333.75	40°20'47.1180"N	80°34'31.5454"W	11097.36	337.912	0.60
16100.00	90.330	342.320	5565.82	11156.39	10370.41	-4201.34	1700197.47	674421.26	40°20'47.9793"N	80°34'31.9256"W	11189.13	337.946	0.65
16191.00	90.270	342.110	5565.35	11247.38	10457.06	-4229.13	1700169.68	674507.91	40°20'48.8322"N	80°34'32.2980"W	11279.88	337.980	0.24
16283.00	90.480	342.110	5564.75	11339.38	10544.61	-4257.39	1700141.42	674595.46	40°20'49.6939"N	80°34'32.6765"W	11371.64	338.014	0.23
16375.00	90.390	342.210	5564.05	11431.38	10632.18	-4285.58	1700113.23	674683.03	40°20'50.5559"N	80°34'33.0540"W	11463.39	338.047	0.15
16467.00	89.960	342.220	5563.77	11523.38	10719.78	-4313.68	1700085.13	674770.64	40°20'51.4182"N	80°34'33.4304"W	11555.15	338.080	0.47
16558.00	90.140	342.010	5563.69	11614.38	10806.38	-4341.63	1700057.18	674857.24	40°20'52.2706"N	80°34'33.8047"W	11645.93	338.111	0.30
16650.00	89.960	342.090	5563.61	11706.38	10893.91	-4369.98	1700028.83	674944.76	40°20'53.1321"N	80°34'34.1844"W	11737.71	338.142	0.21
16741.00	90.020	342.210	5563.62	11797.38	10980.53	-4397.87	1700000.94	675031.38	40°20'53.9847"N	80°34'34.5580"W	11828.49	338.173	0.15
16833.00	90.210	342.500	5563.44	11889.37	11068.20	-4425.76	1699973.05	675119.06	40°20'54.8477"N	80°34'34.9317"W	11920.25	338.205	0.36
16925.00	90.390	342.780	5562.96	11981.37	11158.01	-4453.21	1699945.60	675206.87	40°20'55.7121"N	80°34'35.2998"W	12011.97	338.239	0.36
17017.00	89.810	342.450	5562.79	12073.37	11243.80	-4480.70	1699918.11	675294.66	40°20'56.5763"N	80°34'35.6684"W	12103.71	338.273	0.73
17109.00	89.960	342.220	5562.98	12165.37	11331.46	-4508.62	1699890.19	675382.33	40°20'57.4392"N	80°34'36.0425"W	12195.48	338.303	0.30
17200.00	89.870	342.510	5563.11	12256.37	11418.19	-4536.18	1699862.62	675469.05	40°20'58.2929"N	80°34'36.4120"W	12286.25	338.333	0.33
17282.00	89.960	342.630	5563.25	12348.37	11505.96	-4563.74	1699835.06	675556.83	40°20'59.1569"N	80°34'36.7814"W	12378.00	338.365	0.16
17383.00	90.240	342.270	5563.09	12439.37	11592.73	-4591.18	1699807.62	675643.59	40°21'0.0110"N	80°34'37.1492"W	12468.77	338.394	0.50
17475.00	90.610	342.930	5562.41	12531.36	11680.51	-4618.69	1699780.11	675731.38	40°21'0.8752"N	80°34'37.5181"W	12560.52	338.425	0.82
17567.00	89.370	340.090	5562.43	12623.34	11767.75	-4647.87	1699750.94	675818.62	40°21'1.7338"N	80°34'37.9084"W	12652.38	338.448	3.37
17658.00	90.610	342.430	5562.44	12714.32	11853.92	-4677.10	1699721.71	675904.79	40°21'2.5817"N	80°34'38.2993"W	12743.26	338.468	2.91
17750.00	90.940	342.490	5561.20	12806.31	11941.64	-4704.82	1699693.98	675992.51	40°21'3.4452"N	80°34'38.6709"W	12835.03	338.496	0.36
17842.00	90.420	343.820	5560.11	12898.29	12029.68	-4731.48	1699667.32	676080.55	40°21'4.3120"N	80°34'39.0288"W	12926.72	338.529	1.55
17933.00	90.080	340.820	5559.71	12989.28	12116.37	-4759.11	1699639.69	676167.24	40°21'5.1653"N	80°34'39.3991"W	13017.51	338.556	3.32
18025.00	90.330	341.870	5559.38	13081.27	12203.54	-4788.54	1699610.26	676254.41	40°21'6.0231"N	80°34'39.7927"W	13109.40	338.575	1.17
18117.00	90.570	341.760	5558.66	13173.26	12290.94	-4817.25	1699581.55	676341.81	40°21'6.8833"N	80°34'40.1770"W	13201.25	338.598	0.29
18209.00	90.640	341.670	5557.69	13265.26	12378.29	-4846.11	1699552.69	676429.16	40°21'7.7430"N	80°34'40.5633"W	13293.11	338.620	0.12
18300.00	90.670	341.800	5556.64	13356.24	12464.70	-4874.63	1699524.17	676515.57	40°21'8.5935"N	80°34'40.9450"W	13383.97	338.641	0.15
18392.00	90.670	341.630	5555.57	13448.23	12552.05	-4903.50	1699495.31	676602.92	40°21'9.4531"N	80°34'41.3313"W	13475.83	338.662	0.18
18484.00	90.730	342.150	5554.45	13540.22	12639.48	-4932.09	1699466.71	676690.36	40°21'10.3137"N	80°34'41.7142"W	13567.68	338.684	0.57
18575.00	90.270	342.460	5553.65	13631.21	12726.17	-4959.75	1699439.05	676777.05	40°21'11.1670"N	80°34'42.0848"W	13658.50	338.708	0.61
18666.00	89.990	342.290	5553.44	13722.21	12812.90	-4987.30	1699411.60	676863.78	40°21'12.0207"N	80°34'42.4541"W	13749.31	338.732	0.36



Actual Wellpath Report

Gerald Gourley BRK 1H awp Proj: 31466'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	EXPAND ENERGY	Well	Gerald Gourley BRK 1H
Field	Brooke WV (NAD27 SP)	API	47-009-00345-00-00
Facility	Gerald Gourley BRK Pad	Wellbore	Gerald Gourley BRK 1H AWB
Slot	1H		

WELLPATH DATA (342 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]
18758.00	90.020	342.280	5553.44	13814.21	12900.54	-5015.30	1699383.50	676951.42	40°21'12.8834"N	80°34'42.8292"W	13841.14	338.756	0.03
18849.00	89.740	342.730	5553.63	13905.21	12987.33	-5042.65	1699356.15	677038.21	40°21'13.7377"N	80°34'43.1960"W	13931.94	338.780	0.58
18941.00	90.730	342.480	5553.25	13997.21	13075.12	-5070.16	1699328.64	677126.00	40°21'14.6019"N	80°34'43.5648"W	14023.74	338.805	1.11
19033.00	90.390	342.770	5552.35	14089.20	13162.92	-5097.63	1699301.17	677213.80	40°21'15.4662"N	80°34'43.9333"W	14115.53	338.830	0.49
19124.00	90.270	342.410	5551.83	14180.20	13249.75	-5124.86	1699273.94	677300.63	40°21'16.3209"N	80°34'44.2984"W	14206.33	338.854	0.42
19216.00	89.980	342.280	5551.64	14272.20	13337.41	-5152.76	1699246.04	677388.30	40°21'17.1839"N	80°34'44.6724"W	14298.16	338.877	0.37
19307.00	90.610	343.050	5551.19	14363.20	13424.28	-5179.87	1699218.93	677475.16	40°21'18.0389"N	80°34'45.0360"W	14388.96	338.900	1.11
19399.00	90.050	341.390	5550.66	14455.19	13511.88	-5207.96	1699190.84	677562.77	40°21'18.9012"N	80°34'45.4124"W	14480.81	338.922	1.90
19491.00	90.020	342.840	5550.60	14547.19	13599.43	-5236.22	1699162.58	677650.32	40°21'19.7630"N	80°34'45.7909"W	14572.66	338.942	1.58
19582.00	90.450	342.620	5550.23	14638.18	13686.33	-5263.23	1699135.57	677737.22	40°21'20.6184"N	80°34'46.1533"W	14663.46	338.965	0.53
19674.00	90.360	342.280	5549.58	14730.18	13774.04	-5290.97	1699107.83	677824.93	40°21'21.4818"N	80°34'46.5252"W	14755.29	338.987	0.38
19766.00	90.570	342.410	5548.83	14822.18	13861.71	-5318.87	1699079.92	677912.60	40°21'22.3447"N	80°34'46.8992"W	14847.13	339.008	0.27
19857.00	90.240	341.990	5548.19	14913.17	13948.35	-5346.69	1699052.11	677999.24	40°21'23.1975"N	80°34'47.2719"W	14937.99	339.027	0.59
19949.00	91.310	342.030	5546.95	15005.16	14035.84	-5375.10	1699023.69	678086.73	40°21'24.0587"N	80°34'47.6524"W	15029.85	339.045	1.16
20041.00	90.880	342.370	5546.19	15097.15	14123.42	-5403.22	1698995.58	678174.31	40°21'24.9207"N	80°34'48.0292"W	15121.70	339.065	0.60
20132.00	90.940	341.620	5543.74	15188.13	14209.95	-5431.35	1698967.45	678260.85	40°21'25.7724"N	80°34'48.4059"W	15212.57	339.082	0.83
20224.00	90.850	341.690	5542.30	15280.11	14297.26	-5460.30	1698938.50	678348.16	40°21'26.6317"N	80°34'48.7934"W	15304.46	339.098	0.12
20315.00	91.310	342.390	5540.59	15371.10	14383.81	-5488.35	1698910.44	678434.71	40°21'27.4836"N	80°34'49.1692"W	15395.33	339.115	0.92
20407.00	91.250	342.780	5538.53	15463.07	14471.58	-5515.88	1698882.91	678522.48	40°21'28.3475"N	80°34'49.5384"W	15487.14	339.136	0.43
20499.00	90.730	341.980	5536.94	15555.06	14559.25	-5543.72	1698855.07	678610.15	40°21'29.2104"N	80°34'49.9118"W	15578.98	339.155	1.04
20590.00	90.610	342.430	5535.88	15646.05	14645.89	-5571.53	1698827.26	678696.79	40°21'30.0632"N	80°34'50.2843"W	15669.84	339.172	0.51
20682.00	90.760	342.100	5534.78	15738.04	14733.51	-5599.56	1698799.24	678784.41	40°21'30.9257"N	80°34'50.6598"W	15761.70	339.190	0.39
20774.00	90.910	342.310	5533.44	15830.03	14821.10	-5627.67	1698771.12	678872.00	40°21'31.7878"N	80°34'51.0366"W	15853.57	339.208	0.28
20865.00	90.790	341.800	5532.09	15921.02	14907.66	-5655.70	1698743.09	678958.56	40°21'32.6398"N	80°34'51.4121"W	15944.44	339.224	0.58
20957.00	90.760	342.010	5530.85	16013.01	14995.10	-5684.28	1698714.52	679046.01	40°21'33.5005"N	80°34'51.7947"W	16036.33	339.240	0.23
21048.00	90.910	342.410	5529.52	16104.00	15081.74	-5712.08	1698686.72	679132.65	40°21'34.3532"N	80°34'52.1673"W	16127.20	339.256	0.47
21140.00	90.940	342.210	5528.03	16195.99	15169.38	-5740.03	1698658.76	679220.29	40°21'35.2159"N	80°34'52.5419"W	16219.06	339.274	0.22
21231.00	90.940	343.600	5526.54	16286.97	15256.34	-5766.77	1698632.02	679307.25	40°21'36.0720"N	80°34'52.9009"W	16309.87	339.294	1.53
21323.00	90.910	342.510	5525.06	16378.95	15344.34	-5793.58	1698605.21	679395.25	40°21'36.9383"N	80°34'53.2609"W	16401.65	339.315	1.19
21415.00	90.790	342.170	5523.69	16470.94	15431.99	-5821.49	1698577.30	679482.90	40°21'37.8011"N	80°34'53.6350"W	16493.52	339.332	0.39



Actual Wellpath Report

Gerald Gourley BRK 1H awp Proj: 31466'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EXPAND ENERGY	Well	Gerald Gourley BRK 1H
Field	Brooke WV (NAD27 SP)	API	47-009-00345-00-00
Facility	Gerald Gourley BRK Pad	Wellbore	Gerald Gourley BRK 1H AWB
Slot	1H		

WELLPATH DATA (342 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]
21507.00	90.820	342.170	5522.40	16562.93	15519.56	-5849.66	1698549.13	679570.48	40°21'38.6630"N	80°34'54.0124"W	16585.40	339.347	0.03
21598.00	90.970	342.330	5520.98	16653.92	15606.22	-5877.40	1698521.39	679657.13	40°21'39.5160"N	80°34'54.3842"W	16676.27	339.363	0.24
21689.00	90.970	342.400	5519.44	16744.91	15692.93	-5904.96	1698493.83	679743.85	40°21'40.3695"N	80°34'54.7537"W	16767.13	339.380	0.08
21781.00	89.930	342.570	5518.71	16836.90	15780.66	-5932.65	1698466.14	679831.58	40°21'41.2331"N	80°34'55.1250"W	16858.99	339.397	1.15
21873.00	89.990	342.180	5518.78	16928.90	15868.34	-5960.50	1698438.29	679919.26	40°21'42.0962"N	80°34'55.4984"W	16950.87	339.413	0.43
21964.00	89.980	342.410	5518.79	17019.90	15955.03	-5988.18	1698410.61	680005.95	40°21'42.9495"N	80°34'55.8694"W	17041.75	339.428	0.25
22056.00	90.020	342.100	5518.79	17111.90	16042.66	-6016.22	1698382.57	680093.57	40°21'43.8119"N	80°34'56.2452"W	17133.64	339.443	0.34
22147.00	90.020	342.260	5518.75	17202.90	16129.29	-6044.07	1698354.72	680180.21	40°21'44.6647"N	80°34'56.6184"W	17224.54	339.458	0.18
22239.00	90.110	342.760	5518.65	17294.90	16217.04	-6071.72	1698327.07	680267.96	40°21'45.5284"N	80°34'56.9892"W	17316.41	339.474	0.55
22422.00	89.930	342.260	5518.59	17477.90	16391.58	-6126.72	1698272.07	680442.50	40°21'47.2465"N	80°34'57.7268"W	17499.15	339.506	0.29
22514.00	90.020	342.210	5518.63	17569.90	16479.19	-6154.79	1698244.00	680530.11	40°21'48.1088"N	80°34'58.1030"W	17591.05	339.520	0.11
22605.00	89.990	342.300	5518.62	17660.90	16565.86	-6182.52	1698216.27	680616.78	40°21'48.9619"N	80°34'58.4747"W	17681.95	339.534	0.10
22697.00	90.140	342.330	5518.51	17752.90	16653.51	-6210.47	1698188.32	680704.44	40°21'49.8247"N	80°34'58.8494"W	17773.84	339.548	0.17
22789.00	90.080	341.760	5518.34	17844.90	16741.03	-6238.83	1698159.96	680791.96	40°21'50.6861"N	80°34'59.2294"W	17865.75	339.561	0.62
22880.00	90.020	342.310	5518.26	17936.89	16827.59	-6266.90	1698131.89	680878.52	40°21'51.5381"N	80°34'59.6054"W	17956.67	339.574	0.61
22972.00	90.300	342.920	5518.00	18027.89	16915.39	-6294.39	1698104.40	680966.32	40°21'52.4023"N	80°34'59.9741"W	18048.54	339.589	0.73
23064.00	90.640	341.890	5517.25	18119.89	17003.08	-6322.19	1698076.59	681054.01	40°21'53.2655"N	80°35'0.3470"W	18140.42	339.604	1.18
23155.00	91.370	343.040	5515.65	18210.87	17089.84	-6349.61	1698049.18	681140.77	40°21'54.1195"N	80°35'0.7146"W	18231.29	339.618	1.50
23246.00	90.730	342.730	5513.98	18301.85	17176.79	-6376.38	1698022.40	681227.72	40°21'54.9755"N	80°35'1.0740"W	18322.13	339.634	0.78
23338.00	90.360	342.510	5513.11	18393.85	17264.59	-6403.86	1697994.92	681315.52	40°21'55.8397"N	80°35'1.4427"W	18414.00	339.649	0.47
23430.00	90.670	342.750	5512.28	18485.84	17352.39	-6431.33	1697967.46	681403.32	40°21'56.7040"N	80°35'1.8111"W	18505.87	339.664	0.43
23521.00	90.330	342.290	5511.49	18576.84	17439.18	-6458.66	1697940.12	681490.12	40°21'57.5584"N	80°35'2.1777"W	18596.76	339.678	0.63
23613.00	90.210	342.290	5511.05	18668.84	17526.82	-6486.65	1697912.14	681577.76	40°21'58.4210"N	80°35'2.5529"W	18688.66	339.691	0.13
23704.00	90.210	342.380	5510.72	18759.83	17613.53	-6514.26	1697884.52	681664.47	40°21'59.2745"N	80°35'2.9231"W	18779.56	339.703	0.10
23796.00	90.170	342.210	5510.41	18851.83	17701.17	-6542.24	1697856.55	681752.11	40°22'0.1371"N	80°35'3.2982"W	18871.47	339.716	0.19
23888.00	90.170	342.230	5510.14	18943.83	17788.78	-6570.33	1697828.45	681839.72	40°22'0.9994"N	80°35'3.6748"W	18963.38	339.728	0.02
24071.00	90.420	342.690	5509.20	19126.83	17963.27	-6625.48	1697773.30	682014.21	40°22'2.7170"N	80°35'4.4144"W	19146.17	339.754	0.29
24162.00	90.330	342.170	5508.60	19217.83	18050.02	-6652.95	1697745.83	682100.96	40°22'3.5709"N	80°35'4.7828"W	19237.07	339.767	0.58
24254.00	90.330	342.380	5508.07	19309.83	18137.65	-6680.96	1697717.82	682186.59	40°22'4.4334"N	80°35'5.1582"W	19328.98	339.779	0.23
24346.00	90.510	342.100	5507.40	19401.82	18225.26	-6709.02	1697689.76	682276.21	40°22'5.2958"N	80°35'5.5344"W	19420.90	339.791	0.36



Actual Wellpath Report

Gerald Gourley BRK 1H awp Proj: 31466'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EXPAND ENERGY	Well	Gerald Gourley BRK 1H
Field	Brooke WV (NAD27 SP)	API	47-009-00345-00-00
Facility	Gerald Gourley BRK Pad	Wellbore	Gerald Gourley BRK 1H AWB
Slot	1H		

WELLPATH DATA (342 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]
24438.00	90.300	342.030	5506.75	19493.82	18312.79	-6737.35	1697661.43	682363.74	40°22'6.1573"N	80°35'5.9140"W	19512.82	339.801	0.24
24529.00	90.420	341.950	5506.18	19584.82	18399.33	-6765.49	1697633.29	682450.28	40°22'7.0090"N	80°35'6.2910"W	19603.75	339.811	0.16
24621.00	90.420	341.980	5505.50	19676.81	18486.81	-6793.97	1697604.81	682537.75	40°22'7.8700"N	80°35'6.6726"W	19695.69	339.821	0.03
24713.00	90.480	342.270	5504.78	19768.81	18574.36	-6822.21	1697576.57	682625.31	40°22'8.7318"N	80°35'7.0510"W	19787.61	339.832	0.32
24804.00	90.420	342.210	5504.07	19859.81	18661.02	-6849.96	1697548.82	682711.97	40°22'9.5847"N	80°35'7.4231"W	19878.53	339.843	0.09
24896.00	90.510	342.460	5503.32	19951.80	18748.68	-6877.88	1697520.90	682799.63	40°22'10.4476"N	80°35'7.7974"W	19970.44	339.855	0.29
24988.00	90.570	342.450	5502.45	20043.80	18836.40	-6905.61	1697493.17	682887.35	40°22'11.3110"N	80°35'8.1693"W	20062.34	339.867	0.07
25079.00	90.610	342.630	5501.52	20134.79	18923.20	-6932.91	1697465.86	682974.15	40°22'12.1654"N	80°35'8.5356"W	20153.24	339.879	0.20
25171.00	90.420	343.020	5500.69	20226.79	19011.10	-6960.08	1697438.70	683062.05	40°22'13.0307"N	80°35'8.9002"W	20245.11	339.892	0.47
25263.00	90.240	342.350	5500.16	20318.78	19098.93	-6987.46	1697411.32	683149.88	40°22'13.8952"N	80°35'9.2677"W	20337.00	339.905	0.75
25354.00	90.480	342.570	5499.59	20409.78	19185.69	-7014.89	1697383.89	683236.65	40°22'14.7493"N	80°35'9.6355"W	20427.91	339.916	0.36
25446.00	90.540	342.490	5498.77	20501.78	19273.45	-7042.50	1697356.27	683324.40	40°22'15.6131"N	80°35'10.0060"W	20519.81	339.928	0.11
25538.00	90.450	342.380	5497.97	20593.77	19361.15	-7070.27	1697328.51	683412.11	40°22'16.4764"N	80°35'10.3783"W	20611.72	339.939	0.15
25721.00	91.040	342.690	5495.59	20776.75	19535.70	-7125.18	1697273.59	683586.66	40°22'18.1948"N	80°35'11.1151"W	20794.52	339.962	0.36
25813.00	90.510	342.330	5494.35	20868.74	19623.44	-7152.83	1697245.94	683674.40	40°22'19.0582"N	80°35'11.4859"W	20886.42	339.973	0.70
25904.00	90.730	342.180	5493.36	20959.74	19710.10	-7180.56	1697218.21	683761.07	40°22'19.9112"N	80°35'11.8578"W	20977.34	339.983	0.29
25996.00	90.540	342.460	5492.34	21051.73	19797.75	-7208.50	1697190.27	683848.72	40°22'20.7740"N	80°35'12.2324"W	21069.26	339.993	0.37
26087.00	90.510	342.410	5491.51	21142.73	19884.51	-7235.97	1697162.81	683935.47	40°22'21.6278"N	80°35'12.6007"W	21160.17	340.004	0.06
26179.00	90.510	342.300	5490.69	21234.73	19972.18	-7263.85	1697134.92	684023.14	40°22'22.4908"N	80°35'12.9747"W	21252.09	340.014	0.12
26270.00	90.360	342.230	5490.00	21325.72	20058.85	-7291.57	1697107.20	684109.81	40°22'23.3439"N	80°35'13.3463"W	21343.02	340.023	0.18
26369.00	90.480	342.390	5489.28	21424.72	20153.16	-7321.65	1697077.12	684204.13	40°22'24.2722"N	80°35'13.7497"W	21441.94	340.034	0.20
26464.00	90.450	342.380	5488.50	21519.72	20243.71	-7350.40	1697048.37	684294.67	40°22'25.1635"N	80°35'14.1352"W	21536.85	340.044	0.03
26560.00	90.610	342.530	5487.62	21615.71	20335.24	-7379.34	1697019.44	684386.21	40°22'26.0644"N	80°35'14.5234"W	21632.76	340.055	0.23
26750.00	91.370	343.330	5484.33	21805.67	20516.84	-7435.10	1696963.67	684567.81	40°22'27.8521"N	80°35'15.2722"W	21822.50	340.080	0.58
26846.00	91.900	344.310	5481.59	21901.60	20609.00	-7461.84	1696936.93	684659.97	40°22'28.7595"N	80°35'15.6321"W	21918.25	340.096	1.16
26941.00	91.100	342.300	5479.11	21996.55	20698.95	-7489.12	1696909.65	684750.93	40°22'29.6550"N	80°35'15.9987"W	22013.07	340.110	2.28
27036.00	91.250	342.720	5477.16	22091.53	20790.54	-7517.67	1696881.10	684841.52	40°22'30.5467"N	80°35'16.3817"W	22107.96	340.120	0.47
27132.00	90.670	342.360	5475.63	22187.51	20882.11	-7546.47	1696852.30	684933.08	40°22'31.4480"N	80°35'16.7681"W	22203.86	340.131	0.80
27227.00	90.760	342.430	5474.53	22282.51	20972.65	-7575.20	1696823.57	685023.63	40°22'32.3393"N	80°35'17.1534"W	22298.78	340.141	0.21
27323.00	91.190	342.450	5472.90	22378.49	21064.17	-7604.18	1696794.61	685115.14	40°22'33.2400"N	80°35'17.5419"W	22394.69	340.150	0.45



Actual Wellpath Report

Gerald Gourley BRK 1H awp Proj: 31466'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EXPAND ENERGY	Well	Gerald Gourley BRK 1H
Field	Brooke WV (NAD27 SP)	API	47-009-00345-00-00
Facility	Gerald Gourley BRK Pad	Wellbore	Gerald Gourley BRK 1H AWB
Slot	1H		

WELLPATH DATA (342 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]
27513.00	90.540	342.520	5470.03	22568.47	21245.33	-7661.33	1696737.44	685296.31	40°22'35.0233"N	80°35'18.3089"W	22584.51	340.170	0.34
27608.00	90.420	342.230	5469.23	22663.46	21335.87	-7690.10	1696708.67	685386.85	40°22'35.9145"N	80°35'18.6947"W	22679.44	340.179	0.33
27704.00	91.500	342.830	5467.63	22759.45	21427.43	-7718.91	1696679.86	685478.41	40°22'36.8157"N	80°35'19.0813"W	22775.34	340.189	1.29
27799.00	90.970	342.540	5465.58	22854.42	21518.10	-7747.18	1696651.59	685569.08	40°22'37.7083"N	80°35'19.4607"W	22870.23	340.200	0.64
27894.00	91.280	342.820	5463.71	22949.40	21608.78	-7775.46	1696623.31	685659.76	40°22'38.6008"N	80°35'19.8402"W	22965.13	340.210	0.44
27989.00	91.340	342.200	5461.54	23044.38	21699.36	-7804.00	1696594.77	685750.35	40°22'39.4925"N	80°35'20.2232"W	23060.02	340.219	0.66
28084.00	92.110	342.980	5458.68	23139.33	21789.97	-7832.41	1696566.36	685840.95	40°22'40.3844"N	80°35'20.6044"W	23154.90	340.229	1.15
28180.00	92.170	342.440	5455.10	23235.26	21881.56	-7860.92	1696537.84	685932.55	40°22'41.2860"N	80°35'20.9871"W	23250.74	340.239	0.57
28275.00	91.280	342.500	5452.24	23330.22	21972.11	-7889.52	1696509.24	686023.10	40°22'42.1773"N	80°35'21.3709"W	23345.63	340.248	0.94
28371.00	92.240	342.380	5449.29	23426.17	22063.59	-7918.47	1696480.29	686114.58	40°22'43.0777"N	80°35'21.7592"W	23441.51	340.257	1.01
28466.00	92.390	342.950	5445.45	23521.09	22154.20	-7946.78	1696452.01	686205.19	40°22'43.9697"N	80°35'22.1388"W	23536.35	340.267	0.62
28561.00	92.360	342.800	5441.51	23616.01	22244.91	-7974.71	1696424.06	686295.90	40°22'44.8626"N	80°35'22.5141"W	23631.17	340.277	0.16
28657.00	91.410	342.460	5438.36	23711.95	22336.48	-8003.35	1696395.42	686387.48	40°22'45.7640"N	80°35'22.8986"W	23727.03	340.287	1.05
28752.00	91.280	342.530	5435.13	23806.93	22427.06	-8031.92	1696366.85	686478.05	40°22'46.6556"N	80°35'23.2818"W	23821.94	340.296	0.16
28848.00	91.440	342.630	5433.85	23902.90	22518.63	-8060.65	1696338.12	686569.63	40°22'47.5569"N	80°35'23.6674"W	23917.84	340.305	0.20
28943.00	91.370	342.300	5431.52	23997.87	22609.19	-8089.26	1696309.50	686660.19	40°22'48.4483"N	80°35'24.0513"W	24012.74	340.313	0.35
29039.00	91.370	342.510	5429.22	24093.84	22700.67	-8118.27	1696280.49	686751.67	40°22'49.3488"N	80°35'24.4405"W	24108.65	340.322	0.22
29134.00	91.370	342.400	5426.95	24188.81	22791.23	-8146.90	1696251.86	686842.22	40°22'50.2401"N	80°35'24.8246"W	24203.56	340.330	0.12
29230.00	91.470	342.690	5424.57	24284.78	22882.78	-8175.69	1696223.07	686933.78	40°22'51.1413"N	80°35'25.2109"W	24299.45	340.339	0.32
29420.00	90.790	342.800	5420.83	24474.74	23064.09	-8232.35	1696186.41	687115.09	40°22'52.9260"N	80°35'25.9714"W	24489.26	340.357	0.36
29515.00	90.880	342.460	5419.44	24569.73	23154.70	-8260.87	1696137.89	687205.70	40°22'53.8179"N	80°35'26.3541"W	24584.19	340.365	0.18
29611.00	90.790	342.490	5418.04	24665.72	23246.24	-8289.78	1696108.99	687297.24	40°22'54.7189"N	80°35'26.7419"W	24680.11	340.373	0.10
29706.00	90.940	341.030	5416.61	24760.70	23336.45	-8319.51	1696079.26	687387.45	40°22'55.6067"N	80°35'27.1402"W	24775.07	340.379	1.54
29802.00	90.670	342.420	5415.26	24856.69	23427.60	-8349.61	1696049.16	687478.60	40°22'56.5037"N	80°35'27.5434"W	24871.03	340.384	1.47
29897.00	90.730	342.720	5414.10	24951.68	23518.23	-8378.06	1696020.70	687569.23	40°22'57.3958"N	80°35'27.9253"W	24965.95	340.392	0.32
29992.00	90.850	342.560	5412.79	25046.67	23608.89	-8406.40	1695992.35	687659.90	40°22'58.2883"N	80°35'28.3057"W	25060.87	340.401	0.21
30087.00	91.160	342.480	5411.12	25141.65	23699.49	-8434.93	1695963.83	687750.50	40°22'59.1801"N	80°35'28.6885"W	25155.79	340.409	0.34
30183.00	91.160	342.800	5409.18	25237.63	23791.10	-8463.57	1695935.19	687842.11	40°23'0.0818"N	80°35'29.0729"W	25251.70	340.417	0.33
30278.00	91.160	342.550	5407.26	25332.61	23881.77	-8491.86	1695906.90	687932.78	40°23'0.9743"N	80°35'29.4526"W	25346.61	340.426	0.28
30373.00	91.310	342.890	5405.21	25427.59	23972.46	-8520.07	1695878.69	688023.47	40°23'1.8670"N	80°35'29.8314"W	25441.51	340.434	0.39



Actual Wellpath Report

Gerald Gourley BRK 1H awp Proj: 31466'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EXPAND ENERGY	Well	Gerald Gourley BRK 1H
Field	Brooke WV (NAD27 SP)	API	47-009-00345-00-00
Facility	Gerald Gourley BRK Pad	Wellbore	Gerald Gourley BRK 1H AWB
Slot	1H		

WELLPATH DATA (342 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]
30469.00	91.590	342.700	5402.78	25523.55	24064.14	-8548.46	1695850.30	688115.15	40°23'2.7695"N	80°35'30.2126"W	25537.40	340.443	0.35
30564.00	92.080	343.080	5399.74	25618.50	24154.88	-8576.39	1695822.37	688205.90	40°23'3.6628"N	80°35'30.5878"W	25632.26	340.452	0.65
30659.00	91.620	342.690	5396.67	25713.44	24245.63	-8604.33	1695794.42	688296.64	40°23'4.5561"N	80°35'30.9631"W	25727.13	340.461	0.63
30755.00	92.050	342.610	5393.60	25809.39	24337.21	-8632.95	1695765.81	688388.23	40°23'5.4576"N	80°35'31.3472"W	25823.01	340.469	0.46
30850.00	91.470	342.710	5390.68	25904.35	24427.85	-8661.25	1695737.51	688478.87	40°23'6.3498"N	80°35'31.7271"W	25917.89	340.477	0.62
30946.00	91.370	343.030	5388.30	26000.31	24519.57	-8689.52	1695709.24	688570.58	40°23'7.2526"N	80°35'32.1067"W	26013.78	340.486	0.35
31041.00	91.710	342.900	5385.75	26095.27	24610.37	-8717.34	1695681.42	688661.38	40°23'8.1465"N	80°35'32.4805"W	26108.66	340.495	0.38
31136.00	91.740	342.780	5382.89	26190.22	24701.10	-8745.35	1695653.41	688752.11	40°23'9.0396"N	80°35'32.8567"W	26203.54	340.504	0.13
31231.00	91.100	342.850	5380.53	26285.19	24791.83	-8773.41	1695625.35	688842.85	40°23'9.9327"N	80°35'33.2335"W	26298.43	340.512	0.68
31326.00	91.280	342.770	5378.56	26380.17	24882.56	-8801.48	1695597.27	688933.58	40°23'10.8259"N	80°35'33.6105"W	26393.33	340.520	0.21
31422.00	91.370	343.250	5376.34	26476.13	24974.35	-8829.53	1695569.23	689025.37	40°23'11.7295"N	80°35'33.9873"W	26489.22	340.529	0.51
31466.00†	91.370	343.250	5375.29	26520.12	25016.47	-8842.20	1695556.55	689067.49	40°23'12.1441"N	80°35'34.1577"W	26533.15	340.534	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Gerald Gourley BRK 1H AWB Ref Wellpath: Gerald Gourley BRK 1H awp Proj: 31466'

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]
13.375in Casing	26.00	600.00	574.00	26.00	599.99	0.00	0.00	-1.51	1.37
9.625in Casing	26.00	1525.00	1499.00	26.00	1513.10	0.00	0.00	44.17	-120.30
5.5in Casing	26.00	31466.00	31440.00	26.00	5375.29	0.00	0.00	25016.47	-8842.20



Actual Wellpath Report

Gerald Gourley BRK 1H awp Proj: 31466'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	EXPAND ENERGY	Well	Gerald Gourley BRK 1H
Field	Brooke WV (NAD27 SP)	API	47-009-00345-00-00
Facility	Gerald Gourley BRK Pad	Wellbore	Gerald Gourley BRK 1H AWB
Slot	1H		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Gerald Gourley BRK 1H BHL rev1	5267.65	25007.21	-8873.67	1695525.09	689058.23	40°23'12.0488"N	80°35'34.5628"W	point
Gerald Gourley BRK 1H BHL rev2	5496.00	25007.21	-8873.67	1695525.09	689058.23	40°23'12.0488"N	80°35'34.5628"W	point
Gerald Gourley BRK 1H LP rev2	5680.00	905.06	-1198.88	1703199.97	664955.80	40°19'14.8038"N	80°33'51.7040"W	point
Gerald Gourley BRK 1H LP rev 1	5681.00	905.06	-1198.88	1703199.97	664955.80	40°19'14.8038"N	80°33'51.7040"W	point

WELLPATH COMPOSITION - Ref Wellbore: Gerald Gourley BRK 1H AWB						Ref Wellpath: Gerald Gourley BRK 1H awp Proj: 31466'	
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date		
26.00	530.00	BH Generic gyro - northseeking (Standard)	1 Total MWD IFR Gyro 17.5" 50' - 530'	Gerald Gourley BRK 1H AWB	4/8/2025		
530.00	1455.00	Custom OWSG MWD+IFR1+SAG+FDIR (Approximation)	2 Total MWD IFR-MSA 12.25" 642' - 1455'	Gerald Gourley BRK 1H AWB	4/8/2025		
1455.00	5069.00	Custom OWSG MWD+IFR1+SAG+FDIR (Approximation)	3 Total MWD IFR-MSA 8.75" 1614' - 5069'	Gerald Gourley BRK 1H AWB	4/8/2025		
5069.00	31466.00	Custom OWSG MWD+IFR1+SAG+FDIR (Approximation)	4 BH MWD IFR-MSA 8.5" 5135' - 31422'	Gerald Gourley BRK 1H AWB	4/8/2025		



Well Name: Gerald Gourley 1H

47009003460000

LITHOLOGY/FORMATION	TOP DEPTH, MD (FT)	TOP DEPTH, TVD (FT)	BOTTOM DEPTH, MD (FT)	BOTTOM DEPTH, TVD (FT)
Base of Fresh Water	0	0	477	477
Top of Salt Water	680	680	NA	NA
Pittsburgh Coal	119	119	125	125
Pottsville (ss)	245	245	321	321
Raven Cliff (ss)	686	686	985	983
Maxton (ss)	985	983	1140	1136
Big Injun (ss)	1301	1294	1435	1425
Berea (siltstone)	1715	1699	1748	1732
Rhinestreet (shale)	5256	5149	5504	5377
Cashaqua (shale)	5504	5377	5571	5432
Middlesex (shale)	5571	5432	5653	5492
Burket (shale)	5653	5492	5675	5507
Tully (ls)	5675	5507	5757	5559
Mahantango (shale)	5757	5559	5916	5634
Marcellus (shale)	5916	5634	NA	NA

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EXPAND ENERGY



Location: Brooke County, WV
Field: Brooke WV (NAD27 SP)
Facility: Gerald Gourley BRK Pad

Slot: 1H
Well: Gerald Gourley BRK 1H
Wellbore: Gerald Gourley BRK 1H AWB

Plot reference wellpath is Gerald Gourley BRK 1H exp Proj: 31466'
True vertical depths are referenced to EDC 41 (KB)
Reference wellpath measured depths are referenced to EDC 41 (KB)
EDC 41 (KB) to Mean Sea Level: 1180.8 feet
Mean Sea Level to Ground level (At Slot: 1H): -1154.8 feet
Offset wellpath MDs are referenced to each path's default MD datum
Grid System: NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet
North Reference: Grid north
Scale: True distance
Coordinates are in feet referenced to Slot
Depths are in feet
Created by: tranlam on 2025-04-15; Database: WA_MPL_EASTERNUS_Defn

Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Gerald Gourley BRK Pad			1704398.860	664050.730	40°19'6.0007"N	80°33'36.0899"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
1H	0.00	0.00	1704398.860	664050.730	40°19'6.0007"N	80°33'36.0899"W
EDC 41 (KB) to Ground level (At Slot: 1H)					26ft	
Mean Sea Level to Ground level (At Slot: 1H)					-1154.8ft	
EDC 41 (KB) to Mean Sea Level					1180.8ft	

Bottom Hole Location

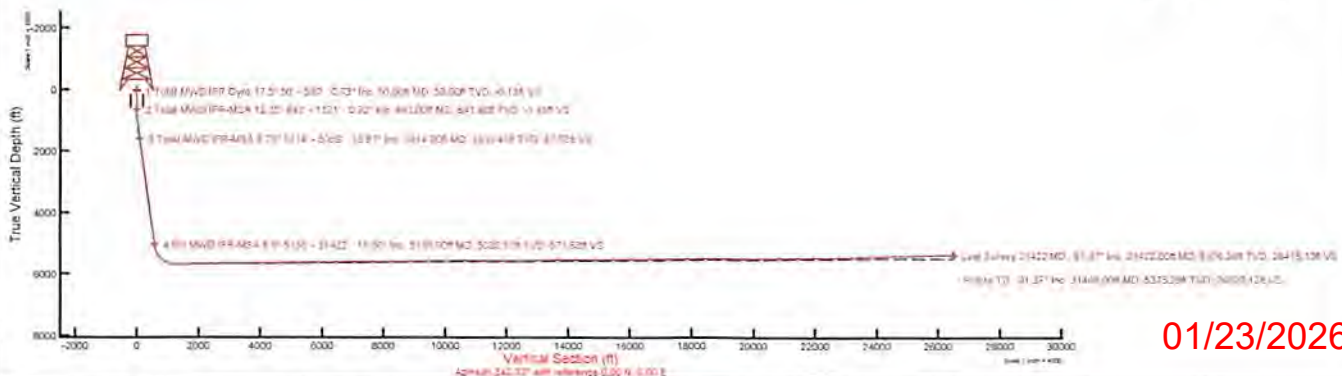
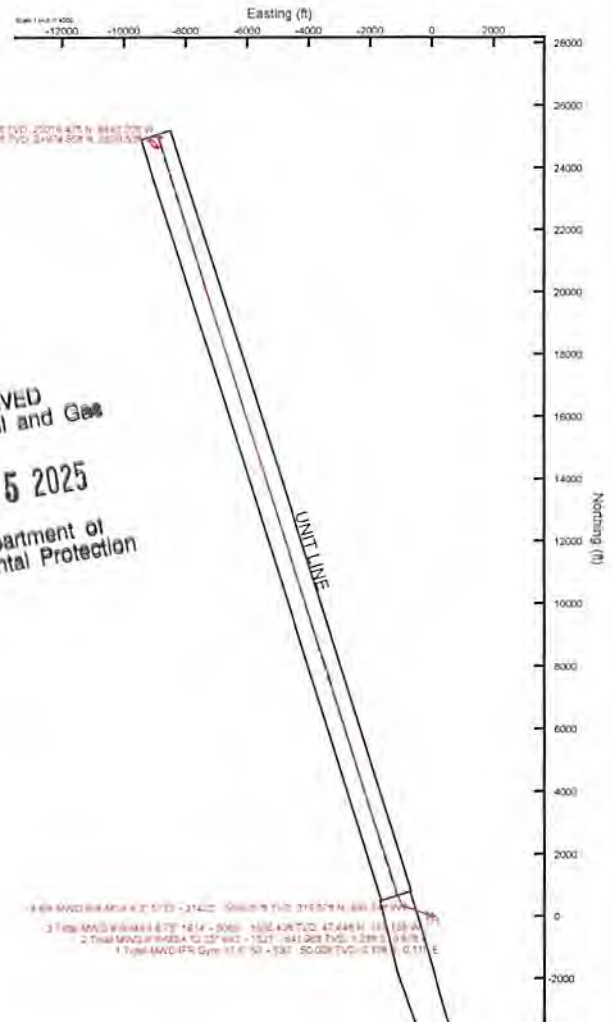
MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
31466.00	91.370	343.250	5375.29	25016.47	-8842.20	1695556.55	689067.49	40°23'12.1441"N	80°35'34.1577"W

API: 47009003450000
BH JOB: 112636208
DURATION: 4/12/2025 - 4/12/2025
RIG: EDC 41



User specified Dip: 66.97° Field: 51742.3 nT
Magnetic North is 8.89 degrees West of True North (at 4/2/2025)
Grid North is 0.68 degrees West of True North
To correct azimuth from True to Grid add 0.68 degrees
To correct azimuth from Magnetic to Grid subtract 8.21 degrees

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