



Actual Wellpath Report

Breckenridge S-24HM ST01 AWP Proj: 17255'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Breckenridge S-24HM ST01
Field	Marshall (NAD83 / UTM / Grid)	API	47-051-02431-0000
Facility	Breckenridge Pad	Wellbore	Breckenridge S-24HM ST01 AWB
Slot	Slot #24	Sidetrack from	Breckenridge S-24HM AWP Proj: 3761' at 3030.00 MD

REPORT SETUP INFORMATION

Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999613	Report Generated	12/1/2024 at 6:06:12 PM
Convergence at slot	0.24° East	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	7.97	-35.27	1745173.13	14465160.44	39°49'49.1017"N	80°37'36.6972"W
Facility Reference Pt			1745208.39	14465152.47	39°49'49.0215"N	80°37'36.2455"W
Field Reference Pt			1640416.67	14526733.48	40°00'0.0000"N	81°00'0.0000"W

WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 294 (RKB) to Facility Vertical Datum	1398.00ft
Horizontal Reference Pt	Slot	Patterson 294 (RKB) to Mean Sea Level	1398.00ft
Vertical Reference Pt	Patterson 294 (RKB)	Patterson 294 (RKB) to Ground Level at Slot (Slot #24)	28.00ft
MD Reference Pt	Patterson 294 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	146.82°

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From	Marshall (NAD83 / UTM / Grid)	API	47-051-02431-0000
Facility	Breckenridge Pad	Wellbore	Breckenridge S-24HM ST01 AWB
Slot	Slot #24	Sidetrack from	Breckenridge S-24HM AWP Proj: 3761' at 3030.00 MD

WELLPATH DATA (245 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US N]	Grid North [US N]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	OLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
0.00†	0.000	135.170	0.00	0.00	0.00	0.00	1745173.13	14465160.44	39°49'49.1017"N	80°37'36.6972"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	135.170	28.00	0.00	0.00	0.00	1745173.13	14465160.44	39°49'49.1017"N	80°37'36.6972"W	0.00	0.000	0.00	0.00	0.00
174.00	0.280	135.170	174.00	0.35	-0.25	0.25	1745173.38	14465160.19	39°49'49.0992"N	80°37'36.6940"W	0.38	135.170	0.19	0.19	0.00
203.00	0.220	290.840	203.00	0.37	-0.28	0.25	1745173.38	14465160.16	39°49'49.0989"N	80°37'36.6940"W	0.38	138.653	1.69	-0.21	636.72
231.00	0.100	345.400	231.00	0.31	-0.24	0.19	1745173.32	14465160.20	39°49'49.0993"N	80°37'36.6948"W	0.31	141.270	0.65	-0.43	194.80
260.00	0.080	313.090	260.00	0.26	-0.20	0.17	1745173.30	14465160.24	39°49'49.0997"N	80°37'36.6950"W	0.26	139.721	0.19	-0.03	-111.41
288.00	0.130	345.800	288.00	0.21	-0.15	0.15	1745173.28	14465160.29	39°49'49.1002"N	80°37'36.6954"W	0.21	136.509	0.25	0.14	112.70
318.00	0.320	290.220	318.00	0.11	-0.09	0.08	1745173.19	14465160.35	39°49'49.1008"N	80°37'36.6965"W	0.11	147.395	0.90	0.63	-105.27
350.00	0.270	278.890	350.00	-0.01	-0.05	-0.10	1745173.03	14465160.39	39°49'49.1012"N	80°37'36.6984"W	0.11	242.242	0.25	-0.16	-30.54
383.00	0.410	208.490	383.00	-0.17	0.02	-0.28	1745172.85	14465160.46	39°49'49.1019"N	80°37'36.7007"W	0.28	273.802	0.55	0.42	59.39
415.00	0.510	302.750	415.00	-0.40	0.15	-0.50	1745172.63	14465160.59	39°49'49.1032"N	80°37'36.7036"W	0.52	286.822	0.33	0.31	13.31
446.00	0.670	289.990	446.00	-0.67	0.29	-0.78	1745172.35	14465160.73	39°49'49.1046"N	80°37'36.7072"W	0.83	290.116	0.66	0.52	-41.16
478.00	0.550	321.770	477.99	-0.97	0.47	-1.05	1745172.08	14465160.91	39°49'49.1064"N	80°37'36.7107"W	1.15	294.101	1.10	-0.38	90.31
510.00	0.470	306.050	509.99	-1.25	0.67	-1.25	1745171.88	14465161.11	39°49'49.1084"N	80°37'36.7133"W	1.42	298.074	0.50	-0.25	-40.12
542.00	0.630	308.880	541.99	-1.54	0.86	-1.50	1745171.63	14465161.30	39°49'49.1102"N	80°37'36.7164"W	1.73	299.774	0.51	0.50	8.84
573.00	0.610	295.730	572.99	-1.84	1.04	-1.78	1745171.35	14465161.47	39°49'49.1120"N	80°37'36.7200"W	2.06	300.201	0.46	-0.06	-42.42
605.00	0.600	319.440	604.99	-2.15	1.24	-2.04	1745171.09	14465161.68	39°49'49.1140"N	80°37'36.7233"W	2.39	301.208	0.78	-0.03	74.09
636.00	0.850	317.600	635.98	-2.54	1.53	-2.30	1745170.83	14465161.97	39°49'49.1169"N	80°37'36.7266"W	2.76	303.607	0.81	0.81	-5.04
667.00	0.890	321.010	666.98	-3.00	1.88	-2.61	1745170.52	14465162.32	39°49'49.1204"N	80°37'36.7305"W	3.22	305.866	0.19	0.10	11.00
699.00	0.930	312.000	698.98	-3.50	2.25	-2.95	1745170.18	14465162.69	39°49'49.1240"N	80°37'36.7350"W	3.71	307.285	0.47	0.16	-28.16
730.00	0.990	309.140	729.97	-4.00	2.59	-3.35	1745169.78	14465163.03	39°49'49.1274"N	80°37'36.7400"W	4.23	307.682	0.25	0.19	-9.23
762.00	1.030	325.020	761.97	-4.55	3.00	-3.73	1745169.40	14465163.44	39°49'49.1315"N	80°37'36.7448"W	4.78	308.793	0.88	0.12	49.63
794.00	0.770	340.610	793.96	-5.04	3.44	-3.96	1745169.17	14465163.87	39°49'49.1358"N	80°37'36.7478"W	5.25	310.910	1.11	-0.81	45.72
825.00	0.870	343.500	824.96	-5.47	3.86	-4.10	1745169.03	14465164.30	39°49'49.1400"N	80°37'36.7496"W	5.63	313.251	0.35	0.32	0.32
857.00	0.480	2.050	856.96	-5.81	4.22	-4.16	1745168.97	14465164.66	39°49'49.1436"N	80°37'36.7504"W	5.93	315.407	1.38	-1.22	57.07
888.00	0.750	331.040	887.96	-6.12	4.53	-4.26	1745168.87	14465164.97	39°49'49.1467"N	80°37'36.7516"W	6.22	316.781	1.35	0.87	-109.00
920.00	0.810	5.330	919.95	-6.51	4.94	-4.34	1745168.79	14465165.38	39°49'49.1507"N	80°37'36.7528"W	6.57	318.708	1.45	0.19	107.16
951.00	0.830	343.770	950.95	-6.90	5.37	-4.38	1745168.75	14465165.81	39°49'49.1550"N	80°37'36.7531"W	6.93	320.811	0.99	0.06	-69.55
983.00	0.780	7.560	982.95	-7.28	5.81	-4.42	1745168.71	14465166.25	39°49'49.1593"N	80°37'36.7535"W	7.30	322.766	1.05	-0.16	74.34
1013.00	0.490	351.510	1012.95	-7.55	6.14	-4.41	1745168.72	14465166.58	39°49'49.1626"N	80°37'36.7534"W	7.56	324.324	1.12	-0.97	-53.50

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Operator	EQT PRODUCTION COMPANY	Well	Breckenridge S-24HM ST01
Field	Marsmill (NAD83 / UTM / Grid)	API	47-051-02431-0000
Facility	Breckenridge Pad	Wellbore	Breckenridge S-24HM ST01 AWP
Slot	Slot #24	Sidetrack from	Breckenridge S-24HM AWP Proj: 3761' at 3030.00 MD

WELLPATH DATA (245 stations)

Sta [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 [°]	DL5 [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
1045.00	0.300	30.990	1044.95	-7.72	6.37	-4.37	1745168.76	14465166.81	39°49'49.1648"N	80°37'36.7529"W	7.73	325.510	0.97	-0.34	123.36
1077.00	0.000	58.950	1076.94	-7.76	6.55	-4.16	1745168.97	14465166.99	39°49'49.1666"N	80°37'36.7502"W	7.76	327.581	1.16	0.88	87.37
1109.00	0.700	63.080	1108.94	-7.74	6.74	-3.83	1745169.30	14465167.17	39°49'49.1684"N	80°37'36.7459"W	7.75	330.383	0.20	0.12	12.91
1140.00	0.910	62.340	1139.94	-7.69	6.94	-3.44	1745169.69	14465167.37	39°49'49.1704"N	80°37'36.7410"W	7.74	333.604	0.68	0.68	-2.39
1157.00	0.570	67.740	1156.94	-7.66	7.03	-3.25	1745169.89	14465167.47	39°49'49.1713"N	80°37'36.7384"W	7.74	335.226	2.04	-2.00	31.76
1205.00	0.680	44.720	1204.93	-7.58	7.33	-2.82	1745170.31	14465167.76	39°49'49.1742"N	80°37'36.7330"W	7.85	338.917	0.57	0.23	-47.96
1237.00	0.590	77.190	1236.93	-7.66	7.50	-2.53	1745170.60	14465167.93	39°49'49.1759"N	80°37'36.7292"W	7.91	341.353	1.14	-0.28	101.25
1269.00	0.600	109.850	1268.93	-7.42	7.46	-2.15	1745170.98	14465167.89	39°49'49.1755"N	80°37'36.7244"W	7.76	343.887	1.42	0.72	102.25
1300.00	1.130	123.560	1299.93	-6.94	7.17	-1.72	1745171.41	14465167.61	39°49'49.1726"N	80°37'36.7189"W	7.37	346.482	1.62	1.00	70.45
1332.00	1.340	138.160	1331.92	-6.27	6.67	-1.25	1745171.89	14465167.11	39°49'49.1677"N	80°37'36.7128"W	6.79	349.429	0.73	0.66	14.36
1363.00	1.490	142.300	1362.91	-5.51	6.08	-0.76	1745172.37	14465166.52	39°49'49.1619"N	80°37'36.7066"W	6.13	352.907	0.59	0.48	13.36
1395.00	1.230	148.670	1394.90	-4.75	5.46	-0.32	1745172.81	14465165.90	39°49'49.1557"N	80°37'36.7011"W	5.47	356.604	0.94	-0.81	19.91
1426.00	0.810	157.300	1425.89	-4.20	4.98	-0.07	1745173.06	14465165.41	39°49'49.1509"N	80°37'36.6978"W	4.98	359.233	1.44	-1.35	27.64
1458.00	0.600	164.160	1457.89	-3.82	4.61	0.07	1745173.20	14465165.04	39°49'49.1472"N	80°37'36.6961"W	4.61	0.826	0.71	-0.66	21.44
1490.00	0.630	145.830	1489.89	-3.48	4.30	0.21	1745173.34	14465164.74	39°49'49.1442"N	80°37'36.6943"W	4.30	2.810	0.82	0.09	-57.26
1521.00	0.340	156.510	1520.89	-3.22	4.07	0.34	1745173.47	14465164.51	39°49'49.1419"N	80°37'36.6926"W	4.09	4.818	0.98	-0.94	34.48
1553.00	0.260	150.580	1552.89	-3.06	3.92	0.42	1745173.55	14465164.36	39°49'49.1405"N	80°37'36.6917"W	3.95	6.065	0.27	-0.25	-78.53
1584.00	0.250	131.710	1583.89	-2.92	3.82	0.50	1745173.63	14465164.26	39°49'49.1394"N	80°37'36.6906"W	3.85	7.491	0.27	-0.03	-60.67
1616.00	0.470	154.410	1615.89	-2.72	3.65	0.61	1745173.74	14465164.09	39°49'49.1378"N	80°37'36.6892"W	3.70	9.493	0.81	0.69	70.94
1648.00	0.380	114.690	1647.89	-2.50	3.49	0.76	1745173.89	14465163.93	39°49'49.1362"N	80°37'36.6872"W	3.57	12.347	0.94	-0.28	-124.12
1679.00	0.400	139.270	1678.89	-2.31	3.36	0.93	1745174.06	14465163.80	39°49'49.1349"N	80°37'36.6851"W	3.49	15.417	0.54	0.06	79.28
1711.00	0.700	162.360	1710.89	-2.01	3.09	1.06	1745174.19	14465163.53	39°49'49.1322"N	80°37'36.6835"W	3.27	18.912	1.15	0.94	72.16
1742.00	1.770	166.600	1741.88	-1.38	2.45	1.23	1745174.36	14465162.89	39°49'49.1258"N	80°37'36.6813"W	2.74	26.650	3.46	3.45	13.65
1774.00	2.970	164.710	1773.85	-0.12	1.17	1.56	1745174.69	14465161.61	39°49'49.1132"N	80°37'36.6771"W	1.95	53.226	3.76	3.75	-5.01
1805.00	4.220	159.610	1804.79	1.75	-0.68	2.17	1745175.30	14465159.76	39°49'49.0949"N	80°37'36.6694"W	2.27	107.319	4.16	4.03	-16.45
1837.00	5.270	159.190	1836.68	4.34	-3.15	3.10	1745176.23	14465157.29	39°49'49.0704"N	80°37'36.6576"W	4.42	135.470	3.28	3.28	-1.31
1868.00	5.830	159.730	1867.53	7.26	-5.96	4.15	1745177.28	14465154.48	39°49'49.0426"N	80°37'36.6443"W	7.27	145.132	1.81	1.81	1.74
1900.00	6.880	157.590	1899.34	10.73	-9.26	5.45	1745178.58	14465151.18	39°49'49.0100"N	80°37'36.6279"W	10.74	149.526	3.36	3.26	-6.69
1932.00	7.540	157.670	1931.08	14.68	-12.97	6.98	1745180.10	14465147.47	39°49'48.9732"N	80°37'36.6085"W	14.73	151.730	2.06	2.06	0.25
1964.00	8.160	156.610	1962.78	18.98	-17.00	8.68	1745181.80	14465143.45	39°49'48.9333"N	80°37'36.5869"W	19.08	152.962	1.99	1.94	-3.31

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Field	Marshall (NAD83 / UTM / Grid)	API	47-051-02431-0000
Facility	Breckenridge Pad	Wellbore	Breckenridge S-24HM ST01 AWB
Shaft	Slot #24	Sidetrack from	Breckenridge S-24HM AWP Proj: 3761' at 3030.00 MD

WELLPATH DATA (245 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]	Build Rate [1/100ft]	Turn Rate [1/100ft]
1955.00	8.430	155.370	1993.46	23.39	-21.08	10.50	1745183.62	14465139.36	39°49'48.8929"N	80°37'36.5638"W	23.55	153.535	1.04	0.87	-4.00
2027.00	8.220	154.590	2025.12	27.98	-25.28	12.48	1745185.58	14465135.17	39°49'48.8513"N	80°37'36.5389"W	28.18	153.773	0.75	-0.66	-2.44
2059.00	8.290	157.960	2056.79	32.51	-29.49	14.30	1745187.43	14465130.96	39°49'48.8097"N	80°37'36.5155"W	32.77	154.125	1.53	0.22	10.50
2090.00	8.160	151.990	2087.47	36.89	-33.50	16.17	1745189.30	14465126.95	39°49'48.7700"N	80°37'36.4917"W	37.20	154.229	2.79	-0.42	-19.20
2122.00	8.510	144.190	2119.13	41.52	-37.43	18.63	1745191.75	14465123.03	39°49'48.7311"N	80°37'36.4605"W	41.81	153.541	3.70	1.09	-24.37
2153.00	8.370	150.240	2149.80	46.06	-41.25	21.09	1745194.21	14465119.21	39°49'48.6932"N	80°37'36.4291"W	46.32	152.920	2.90	-0.45	-19.82
2185.00	8.470	154.700	2181.45	50.72	-45.40	23.25	1745196.37	14465115.06	39°49'48.6521"N	80°37'36.4016"W	51.01	152.880	2.06	0.31	13.84
2217.00	8.510	149.320	2213.10	55.42	-49.56	25.47	1745198.59	14465110.89	39°49'48.6108"N	80°37'36.3734"W	55.72	152.805	2.48	0.12	-16.81
2248.00	9.000	147.630	2243.74	60.14	-53.59	27.94	1745201.05	14465106.88	39°49'48.5710"N	80°37'36.3420"W	60.43	152.468	1.79	1.58	-5.45
2280.00	9.780	145.410	2275.31	65.36	-57.94	30.82	1745203.94	14465102.53	39°49'48.5279"N	80°37'36.3053"W	65.62	151.990	2.69	2.44	-6.94
2310.00	10.770	143.020	2304.83	70.70	-62.27	33.95	1745207.07	14465098.19	39°49'48.4849"N	80°37'36.2654"W	70.93	151.401	3.59	3.30	-7.97
2343.00	12.190	141.330	2337.17	77.25	-67.46	37.98	1745211.10	14465093.01	39°49'48.4335"N	80°37'36.2140"W	77.42	150.618	4.42	4.30	-5.12
2374.00	13.000	136.570	2367.39	84.09	-72.66	42.53	1745215.65	14465087.81	39°49'48.3819"N	80°37'36.1559"W	84.19	149.656	5.69	4.55	-15.55
2406.00	14.600	130.270	2398.42	91.68	-78.01	48.21	1745221.33	14465082.46	39°49'48.3287"N	80°37'36.0834"W	91.71	148.283	5.87	3.36	-19.69
2437.00	14.940	125.870	2428.39	99.18	-82.89	54.45	1745227.56	14465077.58	39°49'48.2803"N	80°37'36.0037"W	99.18	146.701	3.72	0.84	-14.19
2469.00	15.270	121.350	2459.29	106.83	-87.50	61.39	1745234.50	14465072.97	39°49'48.2344"N	80°37'35.9150"W	106.89	144.947	3.82	1.03	-14.13
2501.00	15.150	119.390	2490.17	114.35	-91.75	68.63	1745241.74	14465068.73	39°49'48.1922"N	80°37'35.8224"W	114.58	143.201	1.65	-0.37	-6.13
2533.00	15.370	118.200	2521.04	121.78	-95.80	76.01	1745249.12	14465064.67	39°49'48.1518"N	80°37'35.7280"W	122.30	141.570	1.20	0.69	-3.72
2564.00	15.410	118.800	2550.93	129.03	-99.73	83.24	1745256.34	14465060.75	39°49'48.1127"N	80°37'35.6355"W	129.91	140.148	0.53	0.13	1.00
2596.00	15.480	117.950	2581.77	136.52	-103.78	90.74	1745263.84	14465056.70	39°49'48.0724"N	80°37'35.5396"W	137.86	138.834	0.74	0.22	-2.60
2628.00	15.780	119.010	2612.59	144.11	-107.89	98.32	1745271.41	14465052.59	39°49'48.0314"N	80°37'35.4427"W	145.97	137.857	1.29	0.94	-3.31
2659.00	15.970	119.610	2642.41	151.63	-112.04	105.71	1745278.80	14465048.44	39°49'47.9901"N	80°37'35.3482"W	154.04	136.685	0.81	0.61	1.04
2691.00	16.060	117.890	2673.12	159.56	-116.36	113.60	1745286.68	14465044.12	39°49'47.9470"N	80°37'35.2474"W	162.82	135.690	2.63	2.16	-5.57
2723.00	17.260	119.420	2703.73	167.79	-120.84	121.79	1745294.87	14465039.65	39°49'47.9025"N	80°37'35.1427"W	171.56	134.777	2.34	1.88	-4.78
2753.00	18.560	119.900	2732.27	176.00	-125.41	129.80	1745302.88	14465035.08	39°49'47.8570"N	80°37'35.0402"W	180.49	134.014	4.36	4.38	-1.60
2785.00	20.190	118.770	2762.46	185.41	-130.60	139.06	1745312.13	14465029.89	39°49'47.8053"N	80°37'34.9218"W	190.77	133.205	5.23	5.08	-3.55
2817.00	21.200	120.140	2792.39	195.46	-136.17	148.90	1745321.97	14465024.33	39°49'47.7499"N	80°37'34.7959"W	201.78	132.442	3.50	3.16	-4.28
2849.00	21.520	121.620	2822.20	205.94	-142.15	158.90	1745331.97	14465018.35	39°49'47.6903"N	80°37'34.6680"W	213.21	131.815	1.96	1.00	-4.68
2880.00	21.780	122.090	2830.56	208.95	-143.90	161.72	1745334.79	14465016.59	39°49'47.6729"N	80°37'34.6320"W	216.48	131.663	3.47	2.89	5.22
2901.00	22.040	123.640	2870.46	223.61	-152.61	175.20	1745348.26	14465007.89	39°49'47.5863"N	80°37'34.4597"W	232.35	131.058	1.47	0.60	3.60

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Actual Wellpath Report

Breckenridge S-24HM ST01 AWP Proj: 17255'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Breckenridge S-24HM ST01
Frame	Marshall (NAD83 / UTM / Grid)	API	47-051-02431-0000
Facility	Breckenridge Pad	Wellbore	Breckenridge S-24HM ST01 AWE
Site	Site #24	Sidetrack from	Breckenridge S-24HM AWP Proj: 3761' at 3030.00 MD

WELLPATH DATA (245 stations)

Station	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)			(ft)	(°)	("/100ft)	("/100ft)	("/100ft)
2944.00	22.000	123.360	2910.31	238.43	-161.52	188.65	1745361.71	14464998.99	39°49'47.4977"N	80°37'34.2877"W	248.35	130.568	0.24	0.00	-0.60
2997.00	22.900	122.840	2950.05	253.47	-170.49	202.42	1745375.47	14464990.02	39°49'47.4085"N	80°37'34.1117"W	264.65	130.106	2.05	2.00	-1.21
3030.00	24.160	122.000	2989.47	269.10	-179.69	216.92	1745389.96	14464980.82	39°49'47.3170"N	80°37'33.9265"W	281.68	129.638	3.03	2.93	-1.95
3087.00	21.040	134.570	3023.54	282.74	-188.56	228.27	1745401.31	14464971.95	39°49'47.2288"N	80°37'33.7814"W	296.08	129.558	14.56	-6.00	33.97
3162.00	22.030	134.200	3111.63	317.47	-213.44	253.69	1745426.72	14464947.09	39°49'46.9819"N	80°37'33.4569"W	331.53	130.075	0.17	0.08	-0.30
3257.00	25.990	134.050	3198.39	355.17	-240.34	281.43	1745454.45	14464920.19	39°49'46.7149"N	80°37'33.1028"W	370.09	130.497	4.17	4.17	-0.16
3351.00	29.730	132.530	3281.48	397.86	-270.43	313.42	1745486.43	14464890.12	39°49'46.4183"N	80°37'32.6943"W	413.96	130.788	4.05	3.98	-0.62
3430.00	32.910	131.700	3362.63	445.62	-303.53	350.06	1745523.05	14464857.03	39°49'46.0876"N	80°37'32.2265"W	463.33	130.928	3.38	3.35	-0.16
3514.00	34.540	129.470	3441.73	486.11	-337.73	390.02	1745562.99	14464822.84	39°49'45.7480"N	80°37'31.7162"W	515.92	130.891	1.99	1.51	-0.31
3636.00	35.700	129.760	3519.53	548.19	-372.49	432.01	1745604.97	14464788.09	39°49'45.4027"N	80°37'31.1798"W	570.42	130.769	1.44	1.43	0.31
3731.00	36.700	129.200	3596.15	601.80	-408.20	475.36	1745648.31	14464752.40	39°49'45.0480"N	80°37'30.6260"W	626.58	130.653	1.20	1.16	-0.58
3825.00	36.040	128.500	3671.37	655.57	-443.95	518.96	1745691.89	14464716.67	39°49'44.6929"N	80°37'30.0691"W	682.94	130.546	0.23	0.13	0.32
3920.00	36.850	129.400	3747.36	709.99	-480.17	562.98	1745735.89	14464680.45	39°49'44.3331"N	80°37'29.5068"W	739.94	130.461	0.09	-0.06	-0.11
4017.00	37.050	129.390	3822.48	763.90	-516.03	606.65	1745779.54	14464644.61	39°49'43.9769"N	80°37'28.9490"W	796.44	130.386	0.21	0.21	-0.01
4103.00	36.930	129.800	3898.36	818.49	-552.47	650.69	1745823.57	14464608.19	39°49'43.6150"N	80°37'28.3854"W	853.59	130.333	0.29	-0.13	0.43
4198.00	36.080	129.240	3974.28	873.02	-588.81	694.75	1745867.61	14464571.86	39°49'43.2541"N	80°37'27.8237"W	910.70	130.282	0.36	0.05	-0.50
4293.00	37.030	129.330	4049.34	926.97	-624.63	738.54	1745911.38	14464536.05	39°49'42.8962"N	80°37'27.2643"W	967.27	130.223	0.08	0.05	0.11
4393.00	37.010	129.260	4125.19	981.52	-660.86	782.81	1745955.63	14464498.84	39°49'42.5384"N	80°37'26.6989"W	1024.46	130.172	0.05	-0.02	-0.07
4487.00	36.890	128.970	4200.26	1035.41	-696.55	826.70	1745999.51	14464464.17	39°49'42.1839"N	80°37'26.1382"W	1081.02	130.116	0.19	-0.02	-0.31
4583.00	37.040	129.530	4276.92	1090.50	-733.11	871.45	1746044.24	14464427.61	39°49'41.8208"N	80°37'25.5886"W	1138.81	130.072	0.36	0.05	0.56
4676.00	36.930	129.220	4352.80	1145.03	-769.37	915.63	1746088.41	14464391.37	39°49'41.4805"N	80°37'25.0023"W	1195.96	130.039	0.23	-0.12	-0.33
4773.00	36.180	129.030	4429.12	1198.93	-805.07	959.53	1746132.28	14464355.68	39°49'41.1058"N	80°37'24.4416"W	1252.53	129.998	0.80	-0.73	-0.20
4867.00	36.900	128.100	4504.64	1252.08	-839.96	1003.29	1746176.03	14464320.81	39°49'40.7592"N	80°37'23.8826"W	1308.48	129.936	0.97	0.77	-0.51
4959.00	36.460	127.950	4580.83	1305.80	-874.92	1047.99	1746220.71	14464285.86	39°49'40.4119"N	80°37'23.3115"W	1365.20	129.857	0.47	-0.46	-0.15
5050.00	37.380	127.920	4655.98	1359.23	-909.63	1092.52	1746265.23	14464251.17	39°49'40.0670"N	80°37'22.7425"W	1421.63	129.781	0.98	0.98	-0.03
5151.00	37.310	128.080	4731.50	1413.77	-945.11	1137.94	1746310.62	14464215.70	39°49'39.7145"N	80°37'22.1624"W	1479.23	129.711	0.13	-0.07	0.17
5246.00	37.030	127.450	4807.05	1468.21	-980.38	1183.47	1746356.14	14464180.44	39°49'39.3640"N	80°37'21.5807"W	1536.79	129.638	0.40	0.02	-0.66
5340.00	37.280	128.690	4881.82	1522.16	-1015.51	1228.31	1746400.97	14464145.33	39°49'39.0150"N	80°37'21.0078"W	1593.74	129.582	0.80	-0.05	1.32
5435.00	37.250	129.300	4957.43	1576.92	-1051.70	1273.02	1746445.65	14464109.15	39°49'38.6554"N	80°37'20.4367"W	1651.26	129.562	0.39	-0.03	0.64
5529.00	36.690	129.180	5032.53	1630.81	-1087.46	1316.80	1746489.42	14464073.40	39°49'38.3002"N	80°37'19.8775"W	1707.79	129.551	0.60	-0.60	-0.12

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Breckenridge S-24HM ST01 AWP Proj: 17255'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Breckenridge S-24HM ST01
Front	Marshall (NAD83 / UTM / Grid)	API	47-051-02431-0000
Facility	Breckenridge Pad	Wellbore	Breckenridge S-24HM ST01 AWP
Brat	Slot #24	Sidetrack from	Breckenridge S-24HM AWP Proj: 3761' at 3030.00 MD

WELLPATH DATA (245 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]
5024.00	37.040	129.460	5108.53	1685.16	-1123.58	1360.89	1746533.49	14464037.30	39°49'37.9415"N	80°37'19.3143"W	1764.78	129.544	0.41	0.37	0.29
5114.00	36.790	129.140	5183.69	1739.00	-1159.34	1404.58	1746577.17	14464001.55	39°49'37.5862"N	80°37'18.7563"W	1821.24	129.536	0.34	-0.27	-0.34
5113.00	37.200	129.450	5259.54	1793.55	-1195.57	1448.85	1746621.42	14463965.34	39°49'37.2263"N	80°37'18.1906"W	1878.45	129.529	0.53	0.48	0.79
5008.00	37.400	129.410	5335.08	1848.53	-1232.16	1493.35	1746665.90	14463928.76	39°49'36.8629"N	80°37'17.6225"W	1936.05	129.526	0.15	0.15	-0.01
5002.00	37.390	129.380	5409.75	1903.00	-1268.39	1537.47	1746710.00	14463892.55	39°49'36.5030"N	80°37'17.0590"W	1993.14	129.522	0.02	-0.01	-0.02
5097.00	37.380	129.260	5485.23	1958.01	-1304.94	1582.10	1746754.61	14463856.01	39°49'36.1399"N	80°37'16.4890"W	2050.83	129.516	0.08	0.00	-0.13
5191.00	37.910	129.080	5559.96	2012.36	-1340.96	1626.31	1746798.81	14463820.00	39°49'35.7821"N	80°37'15.9242"W	2107.86	129.507	0.14	-0.09	-0.18
5288.00	37.220	129.160	5635.56	2067.16	-1377.26	1670.94	1746843.42	14463783.72	39°49'35.4215"N	80°37'15.3542"W	2165.38	129.497	0.11	-0.09	0.08
5381.00	37.410	129.160	5711.12	2122.03	-1413.62	1715.59	1746888.05	14463747.37	39°49'35.0602"N	80°37'14.7839"W	2222.97	129.488	0.20	0.20	0.00
5478.00	37.300	128.990	5786.63	2176.93	-1449.96	1760.34	1746932.78	14463711.05	39°49'34.8993"N	80°37'14.2123"W	2280.60	129.478	0.16	-0.12	-0.18
5572.00	36.870	129.010	5863.22	2232.04	-1486.39	1805.32	1746977.75	14463674.63	39°49'34.3374"N	80°37'13.6377"W	2338.49	129.466	0.45	-0.45	0.62
5666.00	42.150	126.530	5935.72	2288.52	-1522.94	1852.62	1747025.03	14463636.09	39°49'33.9742"N	80°37'13.0335"W	2398.24	129.422	5.86	5.62	-2.64
5761.00	50.210	125.150	6001.44	2352.44	-1562.99	1908.17	1747080.55	14463598.06	39°49'33.5760"N	80°37'12.3237"W	2466.59	129.321	8.55	8.48	-1.45
5856.00	57.630	127.340	6057.36	2424.29	-1608.41	1970.00	1747142.36	14463552.66	39°49'33.1246"N	80°37'11.5337"W	2543.20	129.230	8.03	7.81	-2.31
5951.00	67.450	128.540	6101.11	2503.96	-1660.20	2036.37	1747208.71	14463500.89	39°49'32.6100"N	80°37'10.6858"W	2627.37	129.189	10.40	10.34	-1.26
7045.00	70.120	129.570	6135.12	2587.41	-1715.41	2104.41	1747276.72	14463445.69	39°49'32.0615"N	80°37'9.8168"W	2714.99	129.185	3.02	2.84	-1.10
7140.00	70.080	131.370	6167.48	2673.11	-1773.38	2172.36	1747344.64	14463387.75	39°49'31.4857"N	80°37'8.9491"W	2804.29	129.226	1.78	-0.06	-1.89
7235.00	70.060	131.380	6199.88	2759.19	-1832.41	2239.37	1747411.63	14463328.74	39°49'30.8995"N	80°37'8.0934"W	2893.53	129.292	0.01	0.00	0.01
7330.00	70.050	131.270	6232.27	2845.25	-1891.38	2306.44	1747478.67	14463269.79	39°49'30.3139"N	80°37'7.2370"W	2982.78	129.353	0.11	0.00	-0.13
7425.00	70.100	131.350	6264.84	2931.31	-1950.34	2373.53	1747545.73	14463210.85	39°49'29.7284"N	80°37'6.3804"W	3072.05	129.410	0.09	0.04	0.05
7520.00	70.100	131.240	6296.98	3017.38	-2009.29	2440.64	1747612.82	14463151.93	39°49'29.1430"N	80°37'5.5234"W	3161.33	129.463	0.11	0.00	-0.12
7614.00	70.130	131.360	6328.95	3102.55	-2067.64	2507.05	1747679.20	14463093.61	39°49'28.5637"N	80°37'4.6754"W	3249.68	129.513	0.12	0.03	0.13
7709.00	70.100	131.420	6361.26	3188.67	-2126.70	2574.07	1747746.20	14463034.57	39°49'27.9771"N	80°37'3.8197"W	3338.97	129.564	0.07	-0.03	0.06
7804.00	70.060	131.220	6393.63	3274.74	-2185.68	2641.15	1747813.25	14462975.82	39°49'27.3915"N	80°37'2.9632"W	3428.24	129.609	0.20	-0.04	-0.21
7899.00	70.160	131.250	6425.61	3359.88	-2243.94	2707.62	1747879.70	14462917.37	39°49'26.8129"N	80°37'2.1144"W	3516.60	129.650	0.11	0.11	0.03
7993.00	70.060	131.280	6457.93	3445.94	-2302.86	2774.77	1747946.82	14462858.48	39°49'26.2278"N	80°37'1.2570"W	3605.90	129.690	0.11	-0.11	0.00
8087.00	70.100	131.310	6489.96	3531.09	-2361.18	2841.17	1748013.19	14462800.18	39°49'25.6486"N	80°37'0.4092"W	3694.24	129.729	0.05	0.04	0.03
8182.00	70.100	131.270	6522.29	3617.16	-2420.13	2908.29	1748080.29	14462741.26	39°49'25.0632"N	80°36'59.5522"W	3783.54	129.765	0.04	0.00	-0.04
8276.00	70.100	131.260	6554.29	3702.31	-2478.42	2974.73	1748146.70	14462682.98	39°49'24.4843"N	80°36'58.7039"W	3871.89	129.800	0.01	0.00	-0.01
8370.00	70.130	131.300	6586.26	3787.47	-2536.74	3041.15	1748213.10	14462624.69	39°49'23.9051"N	80°36'57.8557"W	3960.26	129.833	0.05	0.03	0.04

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Breckenridge S-24HM ST01 AWP Proj: 17255'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Breckenridge S-24HM ST01
Field	Marshall (NAD83 / UTM / Grid)	API	47-051-02431-0000
Facility	Breckenridge Pad	Wellbore	Breckenridge S-24HM ST01 AWP
Slot	Slot #24	Sidetrack from	Breckenridge S-24HM AWP Proj: 3761' at 3030.00 MD

WELLPATH DATA (245 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]
8465.00	70.040	131.240	6618.62	3873.52	-2595.65	3108.29	1748280.21	14462565.80	39°49'23.3201"N	80°36'56.9986"W	4049.55	129.864	0.11	-0.09	-0.06
8560.00	70.070	131.290	6651.03	3959.55	-2654.55	3175.41	1748347.31	14462508.92	39°49'22.7351"N	80°36'56.1415"W	4138.83	129.895	0.06	0.03	0.08
8654.00	70.130	131.370	6683.02	4044.73	-2712.92	3241.78	1748413.65	14462448.57	39°49'22.1555"N	80°36'55.2941"W	4227.19	129.925	0.10	0.06	0.09
8748.00	70.100	131.240	6715.00	4129.90	-2771.27	3308.19	1748480.03	14462390.25	39°49'21.5760"N	80°36'54.4462"W	4315.56	129.953	0.13	-0.03	-0.14
8843.00	70.160	131.250	6747.28	4215.97	-2830.17	3375.37	1748547.18	14462331.37	39°49'20.9911"N	80°36'53.5885"W	4404.88	129.979	0.06	0.06	0.01
8937.00	70.090	130.000	6779.24	4300.86	-2887.73	3442.46	1748614.25	14462273.84	39°49'20.4194"N	80°36'52.7318"W	4493.27	129.992	1.25	-0.07	-1.33
9031.00	70.160	130.310	6811.20	4385.55	-2944.74	3510.02	1748681.79	14462216.85	39°49'19.8532"N	80°36'51.8690"W	4581.67	129.995	0.32	0.07	0.33
9126.00	70.060	130.150	6843.52	4471.16	-3002.43	3578.23	1748749.96	14462159.18	39°49'19.2801"N	80°36'50.9981"W	4671.01	129.999	0.19	-0.11	-0.17
9220.00	70.070	130.400	6875.57	4555.87	-3059.56	3645.65	1748817.36	14462102.07	39°49'18.7127"N	80°36'50.1372"W	4759.37	130.005	0.25	0.01	0.37
9315.00	70.160	130.220	6907.88	4641.52	-3117.35	3713.77	1748885.45	14462041.30	39°49'18.1386"N	80°36'49.2673"W	4848.71	130.010	0.20	0.03	-0.19
9409.00	70.030	129.540	6939.89	4726.07	-3174.02	3781.59	1748953.25	14461987.65	39°49'17.5757"N	80°36'48.4012"W	4937.09	130.008	0.69	-0.14	-0.72
9504.00	70.030	130.210	6972.33	4811.48	-3231.26	3850.12	1749021.75	14461930.43	39°49'17.0070"N	80°36'47.5261"W	5026.38	130.006	0.66	0.00	0.71
9599.00	70.120	129.910	7005.05	4897.90	-3289.35	3919.19	1749090.80	14461872.37	39°49'16.4300"N	80°36'46.6440"W	5116.63	130.006	0.31	0.08	-0.31
9695.00	70.030	129.890	7037.42	4983.35	-3346.64	3987.71	1749159.29	14461815.10	39°49'15.8609"N	80°36'45.7691"W	5205.94	130.005	0.10	-0.09	-0.02
9790.00	73.920	133.020	7066.82	5070.43	-3406.45	4055.38	1749226.93	14461755.32	39°49'15.2670"N	80°36'44.9052"W	5296.22	130.030	5.16	4.09	3.29
9885.00	75.576	138.380	7089.42	5160.92	-3472.47	4119.75	1749291.27	14461689.32	39°49'14.6118"N	80°36'44.0839"W	5387.99	130.127	7.35	4.80	5.04
9980.00	82.290	142.790	7105.22	5254.01	-3544.63	4179.19	1749350.69	14461616.99	39°49'13.8942"N	80°36'43.3261"W	5480.09	130.305	6.02	3.92	4.64
10075.00	81.850	144.860	7118.32	5347.97	-3620.77	4234.72	1749406.20	14461541.08	39°49'13.1412"N	80°36'42.6186"W	5571.61	130.531	2.21	-0.40	2.19
10169.00	84.050	150.370	7129.14	5441.29	-3699.59	4284.70	1749456.16	14461462.29	39°49'12.3601"N	80°36'41.9825"W	5660.89	130.809	6.89	3.30	5.06
10264.00	89.300	150.470	7133.65	5535.96	-3782.09	4331.52	1749502.97	14461379.82	39°49'11.5429"N	80°36'41.3870"W	5750.33	131.126	4.84	4.64	0.14
10358.00	87.880	149.370	7136.11	5629.79	-3863.40	4378.62	1749550.05	14461298.54	39°49'10.7373"N	80°36'40.7879"W	5839.37	131.423	1.96	-1.57	-1.17
10453.00	88.500	150.200	7139.11	5724.61	-3945.46	4426.41	1749597.81	14461216.52	39°49'9.9243"N	80°36'40.1801"W	5929.56	131.712	1.09	0.65	0.87
10548.00	88.800	149.220	7141.35	5819.47	-4027.46	4474.31	1749645.69	14461134.55	39°49'9.1116"N	80°36'39.5708"W	6019.96	131.991	1.08	0.32	-1.04
10643.00	88.830	150.230	7143.30	5913.32	-4108.62	4521.69	1749693.06	14461053.42	39°49'8.3077"N	80°36'38.9681"W	6109.54	132.260	1.07	0.03	1.07
10738.00	88.850	153.300	7145.36	6006.94	-4191.41	4566.14	1749737.49	14460970.66	39°49'7.4877"N	80°36'38.4030"W	6198.19	132.550	3.27	-0.16	3.27
10830.00	88.710	155.860	7147.53	6100.04	-4276.31	4606.40	1749777.74	14460885.79	39°49'6.6469"N	80°36'37.8917"W	6285.36	132.872	2.83	0.06	2.83
10924.00	89.360	160.640	7149.11	6192.12	-4363.62	4641.14	1749812.47	14460798.52	39°49'5.7826"N	80°36'37.4514"W	6370.35	133.235	5.03	0.69	4.98
11019.00	89.270	159.960	7150.25	6284.49	-4453.05	4673.16	1749844.47	14460709.13	39°49'4.8974"N	80°36'37.0460"W	6455.08	133.618	0.72	-0.09	-0.72
11113.00	89.330	160.250	7151.40	6375.97	-4541.43	4705.15	1749876.45	14460620.78	39°49'4.0226"N	80°36'36.6410"W	6539.35	133.986	0.32	0.06	0.31
11208.00	89.200	160.230	7152.62	6468.37	-4630.83	4737.27	1749908.55	14460531.41	39°49'3.1377"N	80°36'36.2344"W	6624.67	134.349	0.14	-0.14	-0.02

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Actual Wellpath Report

Breckenridge S-24HM ST01 AWP Proj: 17255'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Breckenridge S-24HM ST01
Survey	Marshall (NAD83 / UTM / Grid)	API	47-051-02431-0000
Location	Breckenridge Pad	Wellbore	Breckenridge S-24HM ST01 AWB
Notes	Shut #24	Sidetrack from	Breckenridge S-24HM AWP Proj: 3761' at 3030.00 MD

WELLPATH DATA (245 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]
11403.00	88.27	159.790	7153.88	8560.85	-4720.10	4769.74	1749941.01	14460442.18	39°49'2.2541"N	80°36'35.8233"W	6710.42	134.700	0.47	0.07	-0.42
11408.00	90.13	160.310	7154.47	8653.33	-4809.40	4802.15	1749973.41	14460352.92	39°49'1.3703"N	80°36'35.4129"W	6796.39	135.043	0.97	0.80	-0.53
11412.00	88.71	159.990	7155.50	8744.79	-4897.80	4834.07	1750005.31	14460264.54	39°49'0.4952"N	80°36'35.0088"W	6881.62	135.375	1.44	-1.40	-0.50
11417.00	91.77	160.520	7155.93	8837.18	-4987.21	4866.16	1750037.39	14460175.17	39°48'59.6102"N	80°36'34.6025"W	6967.91	135.704	2.24	2.17	-0.51
11422.00	89.23	160.640	7155.93	8929.45	-5076.80	4897.75	1750068.07	14460085.61	39°48'58.7235"N	80°36'34.2028"W	7054.21	136.028	1.63	-1.63	-0.13
11427.00	89.69	160.340	7157.36	9021.75	-5166.34	4929.47	1750100.88	14459996.11	39°48'57.8373"N	80°36'33.8012"W	7140.78	136.344	0.37	-0.10	-0.32
11432.00	89.95	159.860	7158.19	9114.21	-5255.66	4961.80	1750133.00	14459906.83	39°48'56.9531"N	80°36'33.3919"W	7227.83	136.647	1.06	0.94	-0.51
11437.00	89.42	159.770	7158.72	9206.77	-5344.83	4994.58	1750165.77	14459817.70	39°48'56.0706"N	80°36'32.9768"W	7315.26	136.940	0.56	-0.59	-0.09
11442.00	89.61	160.050	7159.54	9299.30	-5434.04	5027.21	1750198.39	14459728.51	39°48'55.1875"N	80°36'32.5636"W	7402.82	137.227	0.35	0.18	0.29
11447.00	89.45	160.290	7160.32	9390.78	-5522.46	5059.10	1750230.26	14459640.13	39°48'54.3123"N	80°36'32.1599"W	7489.47	137.507	0.30	-0.16	0.26
11452.00	89.30	159.980	7161.30	9483.20	-5611.81	5091.38	1750262.53	14459550.82	39°48'53.4279"N	80°36'31.7513"W	7577.24	137.784	0.34	-0.08	-0.33
11457.00	89.51	159.700	7162.23	9574.78	-5700.04	5123.77	1750294.91	14459462.62	39°48'52.5545"N	80°36'31.3411"W	7664.43	138.048	0.34	0.16	-0.50
11462.00	89.60	160.190	7162.92	9667.29	-5789.28	5156.35	1750327.47	14459373.41	39°48'51.6712"N	80°36'30.9286"W	7752.66	138.309	0.54	0.16	0.52
11467.00	89.12	159.520	7163.67	9758.87	-5877.53	5188.72	1750359.83	14459285.20	39°48'50.7977"N	80°36'30.5187"W	7840.16	138.562	0.76	-0.26	-0.74
11472.00	89.57	159.720	7164.50	9850.53	-5965.64	5221.46	1750392.55	14459197.12	39°48'49.9255"N	80°36'30.1042"W	7927.95	138.806	0.27	0.16	0.21
11477.00	89.42	159.660	7165.34	9943.14	-6054.73	5254.43	1750425.51	14459108.07	39°48'49.0437"N	80°36'29.6866"W	8016.78	139.048	0.17	-0.16	-0.06
11482.00	89.45	159.950	7166.27	10035.70	-6143.88	5287.22	1750458.29	14459018.95	39°48'48.1612"N	80°36'29.2714"W	8105.68	139.286	0.31	0.03	0.31
11487.00	89.38	159.760	7167.24	10128.25	-6233.07	5319.94	1750491.00	14458929.80	39°48'47.2784"N	80°36'28.8572"W	8194.69	139.519	0.21	-0.07	-0.20
11492.00	89.57	159.930	7168.11	10219.83	-6321.31	5352.33	1750523.37	14458841.59	39°48'46.4050"N	80°36'28.4471"W	8282.80	139.745	0.27	0.20	0.18
11497.00	90.50	159.860	7168.84	10312.36	-6410.52	5384.98	1750556.01	14458752.42	39°48'45.5220"N	80°36'28.0336"W	8372.14	139.969	0.08	-0.03	-0.07
11502.00	89.36	160.190	7169.74	10404.84	-6499.80	5417.43	1750588.45	14458663.17	39°48'44.6382"N	80°36'27.6228"W	8461.44	140.190	0.39	-0.17	0.30
11507.00	89.37	159.700	7170.80	10496.38	-6588.09	5449.67	1750620.67	14458574.91	39°48'43.7643"N	80°36'27.2147"W	8549.96	140.402	0.53	-0.06	-0.52
11512.00	89.14	159.400	7172.08	10589.04	-6677.10	5482.85	1750653.85	14458485.94	39°48'42.8832"N	80°36'26.7944"W	8639.75	140.609	0.37	-0.19	-0.32
11517.00	89.47	160.000	7173.23	10681.64	-6766.19	5515.81	1750686.79	14458396.89	39°48'42.0013"N	80°36'26.3771"W	8729.57	140.813	0.72	0.35	0.63
11522.00	89.69	159.680	7173.92	10773.22	-6854.43	5548.21	1750719.18	14458308.68	39°48'41.1279"N	80°36'25.9670"W	8818.49	141.012	0.41	0.23	-0.34
11527.00	89.41	160.210	7174.34	10865.74	-6943.67	5580.78	1750751.74	14458219.48	39°48'40.2446"N	80°36'25.5545"W	8908.40	141.210	0.57	0.13	0.50
11532.00	89.32	160.650	7175.06	10958.07	-7033.17	5612.60	1750783.55	14458130.00	39°48'39.3586"N	80°36'25.1518"W	8998.16	141.409	0.69	-0.52	0.46
11537.00	89.23	160.360	7176.26	11050.36	-7122.72	5644.30	1750815.24	14458040.49	39°48'38.4723"N	80°36'24.7506"W	9087.98	141.605	0.32	-0.09	-0.31
11542.00	89.68	160.450	7177.18	11142.70	-7212.21	5676.16	1750847.08	14457951.03	39°48'37.5855"N	80°36'24.3474"W	9177.96	141.797	0.48	0.45	-0.09
11547.00	89.04	159.830	7178.25	11234.17	-7300.62	5708.09	1750879.00	14457862.67	39°48'36.7115"N	80°36'23.9432"W	9267.22	141.979	0.93	-0.66	-0.66

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Actual Wellpath Report

Breckenridge S-24HM ST01 AWP Proj: 17255'
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REFERENCE WELLPATH IDENTIFICATION

Company	EQT PRODUCTION COMPANY	Well	Breckenridge S-24HM ST01
Field	Marshall (NAD83 / UTM / Grid)	API	47-051-02431-0000
Facility	Breckenridge Pad	Wellbore	Breckenridge S-24HM ST01 AWB
Slot	Slot #24	Sidetrack from	Breckenridge S-24HM AWP Proj: 3761' at 3030.00 MD

WELLPATH DATA (245 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]
14144.00	89.100	159.280	7179.79	9326.82	-7389.62	5741.27	1750912.17	14457773.70	39°48'35.8305"N	80°36'23.5231"W	9357.82	142.155	0.58	0.00	-0.39
14239.00	89.000	160.220	7180.54	9419.40	-7478.74	5774.15	1750945.04	14457684.61	39°48'34.9483"N	80°36'23.1068"W	9448.41	142.329	1.37	0.95	-0.32
14334.00	88.920	160.850	7181.43	9511.69	-7568.31	5805.81	1750976.68	14457595.08	39°48'34.0618"N	80°36'22.7062"W	9536.70	142.507	1.32	-1.14	-0.66
14429.00	89.230	160.810	7182.96	9603.85	-7658.03	5837.00	1751007.86	14457505.39	39°48'33.1737"N	80°36'22.3116"W	9628.91	142.685	0.33	0.33	-0.04
14525.00	89.700	160.060	7184.65	9697.14	-7748.47	5869.14	1751039.99	14457414.99	39°48'32.2785"N	80°36'21.9048"W	9720.37	142.858	0.02	-0.49	-0.79
14620.00	88.960	160.810	7186.52	9789.45	-7837.97	5900.95	1751071.78	14457325.52	39°48'31.3927"N	80°36'21.5023"W	9810.96	143.025	0.82	0.23	-0.70
14714.00	89.840	161.900	7187.49	9880.43	-7927.03	5931.00	1751101.82	14457236.50	39°48'30.5113"N	80°36'21.1223"W	9900.23	143.196	1.48	0.01	-1.10
14809.00	89.750	160.710	7187.83	9972.41	-8017.01	5961.45	1751132.26	14457146.55	39°48'29.6206"N	80°36'20.7372"W	9990.56	143.366	1.26	-0.09	-1.20
14904.00	89.530	160.290	7188.43	10064.71	-8106.56	5993.16	1751163.96	14457057.03	39°48'28.7343"N	80°36'20.3359"W	10081.39	143.525	0.50	-0.23	-0.44
14998.00	89.380	161.400	7189.32	10155.91	-8195.35	6024.00	1751194.79	14456968.28	39°48'27.8555"N	80°36'19.9457"W	10171.16	143.682	1.19	-0.16	-1.18
15093.00	89.190	161.360	7190.51	10247.85	-8285.37	6054.33	1751225.10	14456878.29	39°48'26.9645"N	80°36'19.5621"W	10261.69	143.843	0.20	-0.20	-0.04
15188.00	89.530	160.380	7191.57	10340.00	-8375.12	6085.46	1751256.22	14456788.58	39°48'26.0762"N	80°36'19.1683"W	10352.56	143.997	1.09	0.36	-1.03
15283.00	88.880	160.170	7192.89	10432.38	-8464.54	6117.52	1751288.27	14456699.20	39°48'25.1912"N	80°36'18.7626"W	10443.78	144.143	0.72	-0.68	-0.22
15377.00	89.710	161.430	7194.04	10523.59	-8553.30	6148.43	1751319.17	14456610.47	39°48'24.3126"N	80°36'18.3715"W	10533.86	144.290	1.61	0.88	-1.34
15472.00	89.740	160.190	7194.50	10615.77	-8643.02	6179.66	1751350.38	14456520.79	39°48'23.4246"N	80°36'17.9765"W	10624.97	144.436	1.31	0.03	-1.31
15568.00	89.740	160.210	7194.92	10707.22	-8731.46	6211.50	1751382.21	14456432.38	39°48'22.5492"N	80°36'17.5735"W	10715.46	144.572	0.02	0.00	-0.09
15661.00	90.670	159.670	7194.58	10799.73	-8820.69	6244.08	1751414.78	14456343.18	39°48'21.6659"N	80°36'17.1610"W	10807.09	144.706	1.13	0.98	-0.67
15756.00	89.250	161.890	7194.65	10891.92	-8910.39	6275.35	1751446.04	14456253.52	39°48'20.7781"N	80°36'16.7654"W	10898.40	144.844	2.77	-1.49	-2.34
15851.00	89.340	157.700	7195.82	10984.47	-8999.52	6308.16	1751478.83	14456164.43	39°48'19.8959"N	80°36'16.3502"W	10990.18	144.972	4.41	0.09	-3.41
15946.00	89.100	156.040	7197.11	11078.00	-9086.87	6345.47	1751510.13	14456077.11	39°48'19.0310"N	80°36'15.8770"W	11083.15	145.073	1.77	-0.25	-1.75
16041.00	89.100	162.090	7198.36	11170.78	-9175.55	6379.39	1751550.04	14455988.46	39°48'18.1531"N	80°36'15.4474"W	11175.30	145.191	6.38	0.33	-6.37
16135.00	90.230	161.870	7198.66	11261.51	-9264.94	6408.47	1751579.11	14455899.11	39°48'17.2685"N	80°36'15.0799"W	11265.33	145.329	0.91	0.88	-0.23
16230.00	90.140	160.540	7198.36	11353.53	-9354.87	6439.08	1751609.70	14455809.21	39°48'16.3784"N	80°36'14.6928"W	11356.73	145.460	1.40	-0.09	-1.40
16325.00	89.500	161.010	7198.65	11445.73	-9444.57	6470.36	1751640.97	14455719.55	39°48'15.4905"N	80°36'14.2971"W	11448.38	145.585	0.84	-0.67	0.48
16421.00	89.250	161.020	7199.70	11538.79	-9535.34	6501.59	1751672.19	14455628.81	39°48'14.5921"N	80°36'13.9021"W	11540.95	145.712	0.28	-0.26	0.01
16516.00	89.600	160.450	7200.59	11631.00	-9625.02	6532.93	1751703.52	14455539.17	39°48'13.7045"N	80°36'13.5056"W	11632.72	145.834	0.75	0.45	-0.60
16611.00	89.920	159.920	7200.92	11723.42	-9714.39	6565.14	1751735.71	14455449.83	39°48'12.8199"N	80°36'13.0980"W	11724.78	145.949	0.61	0.29	-0.55
16706.00	90.020	162.400	7200.97	11815.46	-9804.30	6595.81	1751766.37	14455359.96	39°48'11.9301"N	80°36'12.7101"W	11816.47	146.069	2.61	0.11	-2.61
16801.00	90.690	162.130	7200.38	11907.02	-9894.78	6624.75	1751795.30	14455269.51	39°48'11.0346"N	80°36'12.3445"W	11907.73	146.197	0.78	0.71	-0.28
16895.00	90.600	162.440	7199.32	11997.61	-9984.32	6653.35	1751823.89	14455180.01	39°48'10.1485"N	80°36'11.9831"W	11998.07	146.321	0.34	-0.10	0.33

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Actual Wellpath Report

Breckenridge S-24HM ST01 AWP Proj: 17255'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Breckenridge S-24HM ST01
Field	Marshall (NAD83 / UTM / Grid)	API	47-051-02431-0000
Facility	Breckenridge Pad	Wellbore	Breckenridge S-24HM ST01 AWB
Slot	Slot #24	Sidetrack from	Breckenridge S-24HM AWP Proj: 3761' at 3030.00 MD

WELLPATH DATA (245 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]
16990.00	90.750	161.730	7198.20	12089.25	-10074.70	6682.57	1751853.10	14455089.66	39°48'9.2539"N	80°36'11.6138"W	12089.52	146.444	0.76	0.16	-0.75
17085.00	92.260	161.130	7195.71	12181.15	-10164.72	6712.81	1751883.33	14454999.68	39°48'8.3630"N	80°36'11.2315"W	12181.27	146.559	1.71	1.59	-0.63
17179.00	91.120	161.860	7192.94	12272.04	-10253.82	6742.63	1751913.14	14454910.61	39°48'7.4812"N	80°36'10.8544"W	12272.08	146.672	1.44	-1.21	0.70
17230.00	90.900	160.900	7192.04	12321.39	-10302.14	6758.91	1751929.41	14454862.31	39°48'7.0029"N	80°36'10.6486"W	12321.41	146.732	1.93	-0.43	-1.88
17255.00†	90.900	160.900	7191.64	12345.64	-10325.77	6767.09	1751937.59	14454838.70	39°48'6.7691"N	80°36'10.5451"W	12345.65	146.761	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Breckenridge S-24HM ST01 AWB Ref Wellpath: Breckenridge S-24HM ST01 AWP Proj: 17255'

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]
30in Conductor	28.00	148.00	120.00	28.00	148.00	0.00	0.00	-0.17	0.17
17.5in Open Hole	148.00	1177.00	1029.00	148.00	1176.94	-0.17	0.17	7.13	-3.06
13.375in Casing Surface	28.00	1177.00	1149.00	28.00	1176.94	0.00	0.00	7.13	-3.06
12.25in Open Hole	1177.00	2641.00	1464.00	1176.94	2625.10	7.13	-3.06	-109.62	101.42
9.625in Casing Intermediate	28.00	2641.00	2613.00	28.00	2625.10	0.00	0.00	-109.62	101.42
8.75in Open Hole	2641.00	3030.00	389.00	2625.10	2989.47	-109.62	101.42	-179.69	216.92
8.5in Open Hole	3030.00	17255.00	14225.00	2989.47	7191.64	-179.69	216.92	-10325.77	6767.09
5.5in Casing Production	28.00	17255.00	17227.00	28.00	7191.64	0.00	0.00	-10325.77	6767.09

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Field	Marshall (NAD83 / UTM / Grid)	API	47-051-02431-0000
Facility	Breckenridge Pad	Wellbore	Breckenridge S-24HM ST01 AWB
Slot	Slot #24	Sidetrack from	Breckenridge S-24HM AWP Proj: 3761' at 3030.00 MD

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Breckenridge S-24HM LP Rev-3	7110.00	-3598.10	4207.13	1749378.62	14461563.74	39°49'13.3665"N	80°36'42.9710"W	point
Breckenridge S-24HM BHL Rev-3	7172.90	-10333.12	6757.43	1751927.93	14454831.34	39°48'6.6968"N	80°36'10.6694"W	point

WELLPATH COMPOSITION - Ref Wellbore: Breckenridge S-24HM ST01 AWB Ref Wellpath: Breckenridge S-24HM ST01 AWP Proj: 17255'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1157.00	OWSG MWD rev2 - Standard	01 MWD <17-1/2"> (174'-1157')	Breckenridge S-24HM AWB	10/25/2024
1157.00	2849.00	OWSG MWD rev2 - Standard	02 MWD <12-1/4"> (1157')(1205'-2849')	Breckenridge S-24HM AWB	10/25/2024
2849.00	3030.00	OWSG MWD rev2 + HRGM	03 SDI MWD <8-3/4"> (2849')(2858'-3678')	Breckenridge S-24HM AWB	10/25/2024
3030.00	17255.00	OWSG MWD rev2 + IFR1 + Sag + Multi-Station Correction	04 BH Lucida+SuperiorQC IFR1+Sag+FDIR <8-1/2"> (3030')(3067'-17230')	Breckenridge S-24HM ST01 AWB	11/22/2024

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Field	Marshall (NAD83 / UTM / Grid)	API	47-051-02431-0000
Facility	Breckenridge Pad	Wellbore	Breckenridge S-24HM ST01 AWB
Slot	Slot #24	Sidetrack from	Breckenridge S-24HM AWP Proj: 3761' at 3030.00 MD

COMMENTS

Wellpath general comments

API: 47-051-02431-0000

BH Job #: 112450797

Rig: Patterson 294

Duration: 11/24/2024-11/28/2024

MWD <17-1/2"> (174'-1157')

MWD <12-1/4"> (1157')(1205'-2849')

SDI MWD <8-3/4"> (2849')(2858'-3030')

BH Lucida+SuperiorQC IFR1+Sag+FDIR <8-1/2"> (3030')(3067'-17230')

Projected MD at TD: 17255'

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