



Actual Wellpath Report

Cash 5H ST01 AWB Proj:20521'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Cash 5H ST01
Field	Wetzel	API	47-103-03523-0000
Facility	Cash Pad	Wellbore	Cash 5H ST01 AWB
Slot	Slot 05	Sidetrack from	Cash 5H AWB Proj: at 1342.00 MD

REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Scurdan
Scale	0.999941	Report Generated	9/26/2023 at 9:02:26 AM
Convergence at slot	0.69° West	Database	WA_MPL_EASTERLUS_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	26.11	14.77	1694704.06	413429.02	39°37'48.1631"N	80°35'2.1981"W
Facility Reference Pt			1694689.29	413402.91	39°37'47.9033"N	80°35'2.3829"W
Field Reference Pt			1688243.35	385255.46	39°33'8.9436"N	80°36'20.3370"W

WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 292 (RKB) to Facility Vertical Datum	1516.00ft
Horizontal Reference Pt	Slot	Patterson 292 (RKB) to Mean Sea Level	1516.00ft
Vertical Reference Pt	Patterson 292 (RKB)	Patterson 292 (RKB) to Ground Level at Slot (Slot 05)	28.00ft
MD Reference Pt	Patterson 292 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	337.18°

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Field	Wetzel		API	47-103-03523-0000
Facility	Cash Pad		Wellbore	Cash 5H ST01 AWB
Slot	Slot 05		Sidetrack from	Cash 5H AWB Proj: at 1342.00 MD

WELLPATH DATA (246 stations) † = interpolated, ‡ = extrapolated station															
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
0.00†	0.000	41.880	0.00	0.00	0.00	0.00	1694704.06	413429.02	39°37'48.1631"N	80°35'2.1981"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	41.880	28.00	0.00	0.00	0.00	1694704.06	413429.02	39°37'48.1631"N	80°35'2.1981"W	0.00	0.000	0.00	0.00	0.00
115.00	0.270	41.880	115.00	0.09	0.15	0.14	1694704.20	413429.17	39°37'48.1646"N	80°35'2.1964"W	0.20	41.880	0.31	0.31	0.00
215.00	0.090	77.720	215.00	0.17	0.34	0.37	1694704.43	413429.36	39°37'48.1665"N	80°35'2.1935"W	0.51	47.091	0.20	-0.18	35.84
315.00	0.070	103.630	315.00	0.12	0.35	0.51	1694704.57	413429.37	39°37'48.1666"N	80°35'2.1917"W	0.61	55.606	0.04	-0.02	25.91
415.00	0.050	92.140	415.00	0.07	0.33	0.61	1694704.67	413429.35	39°37'48.1664"N	80°35'2.1904"W	0.69	61.510	0.02	-0.02	-11.49
515.00	0.080	17.520	515.00	0.10	0.40	0.67	1694704.73	413429.42	39°37'48.1671"N	80°35'2.1896"W	0.78	59.586	0.08	0.03	-74.62
615.00	0.050	83.140	615.00	0.14	0.47	0.74	1694704.80	413429.49	39°37'48.1678"N	80°35'2.1888"W	0.87	57.664	0.07	-0.03	65.62
715.00	0.080	81.550	715.00	0.12	0.48	0.85	1694704.91	413429.50	39°37'48.1680"N	80°35'2.1873"W	0.98	60.418	0.03	0.03	-1.59
815.00	0.080	63.860	815.00	0.10	0.52	0.98	1694705.04	413429.54	39°37'48.1684"N	80°35'2.1857"W	1.11	61.928	0.02	0.00	-17.69
915.00	0.070	94.310	915.00	0.08	0.55	1.11	1694705.17	413429.57	39°37'48.1687"N	80°35'2.1841"W	1.24	63.554	0.04	-0.01	30.45
1015.00	0.080	80.980	1015.00	0.03	0.56	1.24	1694705.30	413429.58	39°37'48.1687"N	80°35'2.1824"W	1.36	65.758	0.02	0.01	-13.33
1115.00	0.250	107.880	1115.00	-0.13	0.50	1.51	1694705.57	413429.52	39°37'48.1682"N	80°35'2.1789"W	1.59	71.688	0.18	0.17	26.90
1215.00	0.110	113.500	1215.00	-0.34	0.40	1.81	1694705.87	413429.42	39°37'48.1672"N	80°35'2.1751"W	1.85	77.666	0.14	-0.14	5.62
1315.00	0.170	18.680	1315.00	-0.30	0.50	1.94	1694706.00	413429.52	39°37'48.1682"N	80°35'2.1734"W	2.01	75.640	0.21	0.06	-94.82
1342.00	0.170	30.220	1342.00	-0.24	0.57	1.98	1694706.04	413429.59	39°37'48.1690"N	80°35'2.1730"W	2.06	73.911	0.13	0.00	42.74
1384.00	0.410	98.090	1384.00	-0.28	0.60	2.16	1694706.22	413429.62	39°37'48.1693"N	80°35'2.1707"W	2.24	74.384	0.91	0.57	161.60
1427.00	1.260	136.570	1426.99	-0.80	0.24	2.63	1694706.69	413429.26	39°37'48.1658"N	80°35'2.1645"W	2.65	84.838	2.26	1.98	89.49
1470.00	2.600	144.810	1469.97	-2.20	-0.90	3.52	1694707.58	413428.12	39°37'48.1546"N	80°35'2.1530"W	3.64	104.372	3.17	3.12	19.16
1514.00	3.950	143.850	1513.89	-4.65	-2.94	4.99	1694709.05	413426.08	39°37'48.1346"N	80°35'2.1339"W	5.79	120.516	3.07	3.07	-2.18
1557.00	5.150	125.970	1556.76	-7.74	-5.27	7.43	1694711.49	413423.75	39°37'48.1119"N	80°35'2.1024"W	9.11	125.367	4.29	2.79	-41.58
1600.00	6.280	117.310	1599.55	-11.20	-7.48	11.08	1694715.14	413421.54	39°37'48.0904"N	80°35'2.0554"W	13.37	124.041	3.30	2.63	-20.14
1643.00	6.760	112.450	1642.27	-14.80	-9.53	15.51	1694719.57	413419.49	39°37'48.0708"N	80°35'1.9985"W	18.20	121.572	1.70	1.12	-11.30
1686.00	7.220	108.170	1684.95	-18.37	-11.34	20.41	1694724.47	413417.68	39°37'48.0535"N	80°35'1.9355"W	23.35	119.050	1.62	1.07	-9.95
1729.00	6.730	101.490	1727.63	-21.56	-12.68	25.45	1694729.51	413416.34	39°37'48.0408"N	80°35'1.8709"W	28.44	116.490	2.20	-1.14	-15.53
1773.00	6.610	93.230	1771.33	-24.13	-13.34	30.51	1694734.56	413415.68	39°37'48.0349"N	80°35'1.8062"W	33.29	113.619	2.20	-0.27	-18.77
1816.00	6.770	90.970	1814.04	-26.24	-13.52	35.51	1694739.57	413415.50	39°37'48.0337"N	80°35'1.7422"W	38.00	110.846	0.72	0.37	-5.26
1859.00	6.490	83.430	1856.75	-27.94	-13.29	40.46	1694744.52	413415.73	39°37'48.0366"N	80°35'1.6790"W	42.58	108.180	2.12	-0.65	-17.53
1902.00	5.910	77.220	1899.50	-29.00	-12.52	45.03	1694749.09	413416.50	39°37'48.0447"N	80°35'1.6207"W	46.74	105.536	2.06	-1.35	-14.44
1945.00	4.970	70.340	1942.31	-29.49	-11.40	48.95	1694753.00	413417.62	39°37'48.0562"N	80°35'1.5709"W	50.26	103.114	2.66	-2.19	-16.00

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Field	Wetzel	API	47-103-03523-0000
Facility	Cash Pad	Wellbore	Cash 5H ST01 AWB
Slot	Slot 05	Sidetrack from	Cash 5H AWB Proj: at 1342.00 MD

WELLPATH DATA (246 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]
1988.00	4.280	60.920	1985.17	-29.42	-10.00	52.10	1694756.16	413419.02	39°37'48.0705"N	80°35'1.5308"W	53.05	100.861	2.38	-1.60	-21.91
2032.00	3.940	55.080	2029.06	-28.92	-8.33	54.78	1694758.83	413420.69	39°37'48.0873"N	80°35'1.4968"W	55.41	98.650	1.22	-0.77	-13.27
2075.00	4.000	53.680	2071.95	-28.26	-6.60	57.20	1694761.25	413422.42	39°37'48.1047"N	80°35'1.4662"W	57.58	96.581	0.27	0.14	-3.26
2118.00	4.420	58.340	2114.84	-27.66	-4.84	59.81	1694763.87	413424.18	39°37'48.1224"N	80°35'1.4330"W	60.01	94.627	1.26	0.98	10.84
2161.00	4.510	64.920	2157.71	-27.34	-3.25	62.76	1694766.81	413425.77	39°37'48.1384"N	80°35'1.3956"W	62.84	92.969	1.21	0.21	15.30
2204.00	4.570	68.010	2200.57	-27.30	-1.90	65.88	1694769.93	413427.12	39°37'48.1522"N	80°35'1.3560"W	65.90	91.649	0.59	0.14	7.19
2248.00	4.750	67.390	2244.43	-27.33	-0.54	69.18	1694773.24	413428.48	39°37'48.1660"N	80°35'1.3139"W	69.19	90.447	0.42	0.41	-1.41
2291.00	5.000	68.510	2287.27	-27.38	0.83	72.57	1694776.63	413429.85	39°37'48.1800"N	80°35'1.2709"W	72.57	89.344	0.62	0.58	2.60
2377.00	5.270	66.350	2372.93	-27.41	3.79	79.68	1694783.73	413432.81	39°37'48.2100"N	80°35'1.1805"W	79.77	87.278	0.39	0.31	-2.51
2464.00	5.510	61.910	2459.54	-26.97	7.36	87.02	1694791.07	413436.38	39°37'48.2462"N	80°35'1.0872"W	87.33	85.167	0.55	0.28	-5.10
2550.00	5.920	62.600	2545.11	-26.23	11.34	94.60	1694798.65	413440.36	39°37'48.2865"N	80°35'0.9909"W	95.28	83.162	0.48	0.48	0.80
2637.00	6.350	65.240	2631.62	-25.71	15.42	102.95	1694807.01	413444.44	39°37'48.3278"N	80°35'0.8848"W	104.10	81.480	0.59	0.49	3.03
2723.00	6.920	61.300	2717.04	-25.02	19.90	111.82	1694815.87	413448.92	39°37'48.3731"N	80°35'0.7723"W	113.57	79.907	0.85	0.66	-4.58
2742.00	6.650	64.360	2735.91	-24.85	20.93	113.81	1694817.86	413449.95	39°37'48.3835"N	80°35'0.7469"W	115.72	79.580	2.37	-1.42	16.11
2814.00	6.680	63.870	2807.42	-24.40	24.58	121.33	1694825.38	413453.60	39°37'48.4204"N	80°35'0.6514"W	123.79	78.549	0.09	0.04	-0.68
2857.00	6.610	63.150	2850.13	-24.08	26.80	125.78	1694829.83	413455.81	39°37'48.4429"N	80°35'0.5948"W	128.61	77.974	0.25	-0.16	-1.67
2900.00	6.450	61.800	2892.85	-23.68	29.06	130.12	1694834.17	413458.07	39°37'48.4657"N	80°35'0.5397"W	133.32	77.413	0.52	-0.37	-3.14
2943.00	6.190	68.360	2935.59	-23.50	31.05	134.40	1694838.45	413460.07	39°37'48.4860"N	80°35'0.4853"W	137.94	76.991	1.78	-0.60	15.26
2987.00	5.980	83.190	2979.35	-24.19	32.20	138.88	1694842.94	413461.22	39°37'48.4978"N	80°35'0.4282"W	142.57	76.947	3.59	-0.48	33.70
3030.00	6.000	91.060	3022.11	-25.71	32.42	143.35	1694847.41	413461.44	39°37'48.5006"N	80°35'0.3711"W	146.98	77.256	1.91	0.05	18.30
3073.00	6.560	90.370	3064.85	-27.59	32.36	148.06	1694852.11	413461.38	39°37'48.5006"N	80°35'0.3110"W	151.55	77.669	1.31	1.30	-1.60
3117.00	7.810	87.460	3108.51	-29.62	32.48	153.56	1694857.61	413461.50	39°37'48.5024"N	80°35'0.2407"W	156.96	78.057	2.96	2.84	-6.61
3160.00	8.880	85.880	3151.05	-31.69	32.85	159.79	1694863.84	413461.87	39°37'48.5068"N	80°35'0.1612"W	163.13	78.383	2.54	2.49	-3.67
3203.00	10.330	82.770	3193.45	-33.79	33.57	166.92	1694870.97	413462.59	39°37'48.5148"N	80°35'0.0701"W	170.27	78.628	3.58	3.37	-7.23
3246.00	11.410	80.960	3235.68	-35.84	34.73	174.95	1694879.00	413463.74	39°37'48.5271"N	80°34'59.9677"W	178.36	78.773	2.63	2.51	-4.21
3289.00	12.660	77.520	3277.73	-37.70	36.41	183.75	1694887.80	413465.43	39°37'48.5448"N	80°34'59.8555"W	187.32	78.791	3.35	2.91	-8.00
3332.00	13.690	72.530	3319.60	-39.02	38.96	193.20	1694897.25	413467.98	39°37'48.5711"N	80°34'59.7351"W	197.09	78.600	3.57	2.40	-11.60
3376.00	14.970	68.020	3362.23	-39.59	42.65	203.44	1694907.49	413471.67	39°37'48.6088"N	80°34'59.6048"W	207.86	78.160	3.86	2.91	-10.25
3419.00	16.080	64.970	3403.66	-39.44	47.25	213.99	1694918.04	413476.26	39°37'48.6555"N	80°34'59.4707"W	219.14	77.549	3.20	2.58	-7.09
3463.00	17.170	60.920	3445.82	-38.82	52.70	225.33	1694929.38	413481.72	39°37'48.7108"N	80°34'59.3266"W	231.41	76.836	2.61	2.48	-2.82

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Slot	Slot 05	Sidetrack from	Cash 5H AWB Proj: at 1342.00 MD

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3506.00	17.510	65.230	3486.87	-38.21	58.22	236.90	1694940.94	413487.24	39°37'48.7667"N	80°34'59.1796"W	243.95	76.193	1.31	0.79	3.49
3549.00	17.780	67.330	3527.85	-38.01	63.46	248.83	1694952.88	413492.48	39°37'48.8199"N	80°34'59.0279"W	256.80	75.693	1.61	0.63	4.88
3592.00	18.250	69.570	3568.74	-38.31	68.34	261.20	1694965.24	413497.36	39°37'48.8696"N	80°34'58.8706"W	269.99	75.338	1.95	1.09	5.21
3636.00	19.110	71.690	3610.42	-39.16	73.01	274.49	1694978.54	413502.02	39°37'48.9173"N	80°34'58.7015"W	284.04	75.105	2.49	1.95	4.82
3679.00	19.500	72.150	3651.00	-40.34	77.42	288.01	1694992.05	413506.44	39°37'48.9625"N	80°34'58.5294"W	298.23	74.954	0.97	0.91	1.07
3766.00	19.300	69.410	3733.07	-42.15	86.93	315.29	1695019.33	413515.94	39°37'49.0597"N	80°34'58.1823"W	327.05	74.586	1.07	-0.23	-3.15
3852.00	19.550	68.790	3814.17	-43.11	97.13	342.01	1695046.05	413526.15	39°37'49.1637"N	80°34'57.8424"W	355.53	74.145	0.38	0.29	-0.72
3939.00	20.490	72.080	3895.91	-44.82	107.08	370.07	1695074.10	413536.10	39°37'49.2654"N	80°34'57.4853"W	385.25	73.862	1.69	1.08	3.78
4025.00	21.070	72.690	3976.32	-47.59	116.31	399.15	1695103.18	413545.33	39°37'49.3601"N	80°34'57.1151"W	415.75	73.753	0.72	0.67	0.71
4112.00	20.850	70.630	4057.56	-50.02	126.10	428.68	1695132.72	413555.12	39°37'49.4604"N	80°34'56.7391"W	446.85	73.608	0.88	-0.25	-2.37
4198.00	20.580	68.140	4138.01	-51.20	136.81	457.15	1695161.18	413565.82	39°37'49.5695"N	80°34'56.3770"W	477.18	73.340	1.07	-0.31	-2.90
4285.00	20.100	67.770	4219.58	-51.61	148.16	485.18	1695189.21	413577.17	39°37'49.6850"N	80°34'56.0205"W	507.30	73.019	0.57	-0.55	-0.43
4371.00	19.320	67.930	4300.54	-51.95	159.09	512.04	1695216.07	413588.10	39°37'49.7963"N	80°34'55.6789"W	536.19	72.740	0.91	-0.91	0.19
4458.00	19.040	67.950	4382.71	-52.33	169.83	538.53	1695242.56	413598.84	39°37'49.9056"N	80°34'55.3420"W	564.68	72.497	0.32	-0.32	0.02
4544.00	18.130	68.390	4464.23	-52.80	180.02	563.98	1695268.00	413609.03	39°37'50.0093"N	80°34'55.0184"W	592.01	72.297	1.07	-1.06	0.51
4631.00	17.680	68.040	4547.01	-53.28	189.95	588.81	1695292.84	413618.96	39°37'50.1104"N	80°34'54.7025"W	618.69	72.121	0.53	-0.52	-0.40
4717.00	17.720	71.240	4628.94	-54.40	199.04	613.32	1695317.34	413628.05	39°37'50.2031"N	80°34'54.3908"W	644.81	72.020	1.13	0.05	3.72
4803.00	18.710	75.300	4710.64	-57.28	206.75	639.05	1695343.08	413635.76	39°37'50.2824"N	80°34'54.0630"W	671.67	72.072	1.87	1.15	4.72
4881.00	18.660	75.220	4784.53	-60.79	213.11	663.22	1695367.24	413642.11	39°37'50.3481"N	80°34'53.7552"W	696.62	72.187	0.07	-0.06	-0.10
4968.00	19.300	71.910	4866.80	-63.92	221.12	690.35	1695394.36	413650.13	39°37'50.4305"N	80°34'53.4098"W	724.90	72.239	1.44	0.74	-3.80
5054.00	20.250	69.350	4947.73	-65.66	230.79	717.78	1695421.80	413659.79	39°37'50.5293"N	80°34'53.0606"W	753.97	72.176	1.49	1.10	-2.98
5141.00	19.640	66.120	5029.51	-65.96	242.01	745.24	1695449.26	413671.02	39°37'50.6435"N	80°34'52.7114"W	783.55	72.009	1.45	-0.70	-3.71
5227.00	19.240	62.330	5110.61	-64.49	254.45	771.01	1695475.02	413683.45	39°37'50.7694"N	80°34'52.3840"W	811.91	71.736	1.54	-0.47	-4.41
5314.00	18.530	62.970	5192.93	-62.26	267.38	796.02	1695500.03	413696.39	39°37'50.9003"N	80°34'52.0664"W	839.73	71.433	0.85	-0.82	0.74
5400.00	17.730	65.500	5274.66	-60.88	279.03	820.11	1695524.12	413708.03	39°37'51.0182"N	80°34'51.7603"W	866.27	71.210	1.30	-0.93	2.94
5486.00	17.730	65.200	5356.57	-60.04	289.95	843.91	1695547.92	413718.95	39°37'51.1290"N	80°34'51.4578"W	892.33	71.038	0.11	0.00	-0.35
5573.00	18.670	68.160	5439.22	-59.82	300.69	868.86	1695572.87	413729.69	39°37'51.2381"N	80°34'51.1406"W	919.42	70.911	1.52	1.08	3.40
5659.00	18.940	67.410	5520.63	-60.11	311.17	894.53	1695598.53	413740.17	39°37'51.3447"N	80°34'50.8142"W	947.10	70.819	0.42	0.31	-0.87
5746.00	18.540	65.220	5603.02	-59.69	322.39	920.12	1695624.12	413751.39	39°37'51.4586"N	80°34'50.4889"W	974.96	70.691	0.93	-0.46	-2.52
5832.00	18.980	69.090	5684.45	-59.69	333.11	945.60	1695649.60	413762.11	39°37'51.5676"N	80°34'50.1649"W	1002.56	70.594	1.53	0.51	4.50



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Actual Wellpath Report

Cash 5H ST01 AWB Proj:20521'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Cash 5H ST01
Field	Wetzel	API	47-103-03523-0000
Facility	Cash Pad	Wellbore	Cash 5H ST01 AWB
Slot	Slot 05	Sidetrack from	Cash 5H AWB Proj: at 1342.00 MD

WELLPATH DATA (246 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]
5918.00	20.630	72.500	5765.37	-61.56	342.66	973.12	1695677.12	413771.66	39°37'51.6653"N	80°34'49.8147"W	1031.68	70.601	2.34	1.92	3.97
6005.00	20.510	70.720	5846.82	-63.93	352.30	1002.12	1695706.12	413781.30	39°37'51.7640"N	80°34'49.4455"W	1062.24	70.631	0.73	-0.14	-2.05
6091.00	20.390	68.770	5927.40	-65.27	362.70	1030.31	1695734.30	413791.70	39°37'51.8701"N	80°34'49.0869"W	1092.28	70.606	0.80	-0.14	-2.27
6178.00	20.670	68.060	6008.88	-65.93	373.93	1058.68	1695762.67	413802.92	39°37'51.9844"N	80°34'48.7261"W	1122.77	70.547	0.43	0.32	-0.82
6264.00	20.300	69.780	6089.44	-66.84	384.75	1086.75	1695790.75	413813.75	39°37'52.0947"N	80°34'48.3689"W	1152.85	70.504	0.82	-0.43	2.00
6349.00	19.230	73.360	6169.43	-69.01	393.86	1114.00	1695818.00	413822.85	39°37'52.1880"N	80°34'48.0221"W	1181.58	70.529	1.90	-1.26	4.21
6436.00	18.870	69.790	6251.67	-71.20	402.82	1140.93	1695844.92	413831.82	39°37'52.2797"N	80°34'47.6793"W	1209.96	70.554	1.40	-0.41	-4.10
6522.00	18.710	69.590	6333.09	-72.41	412.44	1166.91	1695870.90	413841.43	39°37'52.3778"N	80°34'47.3487"W	1237.65	70.534	0.20	-0.19	-0.23
6609.00	19.010	71.710	6415.42	-74.11	421.75	1193.44	1695897.43	413850.74	39°37'52.4730"N	80°34'47.0111"W	1265.77	70.537	0.86	0.34	2.44
6738.00	18.180	61.140	6537.72	-73.66	438.06	1231.03	1695935.01	413867.05	39°37'52.6387"N	80°34'46.5333"W	1306.65	70.412	2.69	-0.64	-8.19
6825.00	17.850	61.060	6620.45	-70.81	451.06	1254.58	1695958.57	413880.06	39°37'52.7700"N	80°34'46.2342"W	1333.21	70.225	0.38	-0.38	-0.09
6911.00	17.570	71.810	6702.40	-70.45	461.50	1278.46	1695982.44	413890.49	39°37'52.8759"N	80°34'45.9307"W	1359.20	70.151	3.81	-0.33	12.50
6998.00	17.500	70.250	6785.36	-72.21	470.02	1303.24	1696007.22	413899.01	39°37'52.9631"N	80°34'45.6153"W	1385.41	70.168	0.55	-0.08	-1.79
7083.00	17.710	66.810	6866.38	-72.81	479.43	1327.16	1696031.14	413908.42	39°37'53.0589"N	80°34'45.3111"W	1411.10	70.138	1.25	0.25	-4.05
7161.00	17.230	62.390	6940.78	-71.77	489.45	1348.30	1696052.28	413918.44	39°37'53.1605"N	80°34'45.0425"W	1434.39	70.048	1.81	-0.62	-5.67
7256.00	18.650	38.230	7031.29	-63.23	507.93	1370.20	1696074.17	413936.92	39°37'53.3457"N	80°34'44.7654"W	1461.31	69.660	7.92	1.49	-25.43
7351.00	23.490	20.640	7120.00	-42.10	537.63	1386.30	1696090.27	413966.62	39°37'53.6411"N	80°34'44.5642"W	1486.90	68.803	8.33	5.09	-18.52
7447.00	27.350	10.100	7206.73	-9.67	577.28	1396.92	1696100.89	414006.26	39°37'54.0342"N	80°34'44.4346"W	1511.50	67.547	6.18	4.02	-10.98
7541.00	32.840	358.780	7288.10	32.22	624.09	1400.17	1696104.14	414053.08	39°37'54.4972"N	80°34'44.4003"W	1532.96	65.976	8.38	5.84	-12.04
7636.00	42.600	349.240	7363.22	87.79	681.62	1393.60	1696097.57	414110.60	39°37'55.0650"N	80°34'44.4931"W	1551.36	63.936	11.95	10.27	-10.04
7731.00	51.470	344.330	7427.92	156.26	749.14	1377.52	1696081.49	414178.12	39°37'55.7303"N	80°34'44.7089"W	1568.05	61.461	10.07	9.34	-5.17
7826.00	57.920	341.520	7482.80	233.36	823.18	1354.70	1696058.68	414252.15	39°37'56.4593"N	80°34'45.0119"W	1585.19	58.715	7.20	6.79	-2.96
7921.00	65.400	336.470	7527.89	316.83	901.10	1324.64	1696028.62	414330.06	39°37'57.2257"N	80°34'45.4080"W	1602.08	55.774	9.16	7.87	-5.32
8016.00	72.530	334.610	7561.97	405.40	981.74	1287.92	1695991.90	414410.70	39°37'58.0183"N	80°34'45.8897"W	1619.43	52.683	7.72	7.51	-1.96
8111.00	79.190	333.870	7585.16	497.35	1064.65	1247.90	1695951.88	414493.61	39°37'58.8330"N	80°34'46.4139"W	1640.35	49.531	7.05	7.01	-0.78
8206.00	87.320	334.480	7596.31	591.48	1149.51	1206.84	1695910.83	414578.45	39°37'59.6666"N	80°34'46.9517"W	1666.68	46.394	8.58	8.56	0.64
8301.00	88.330	331.700	7599.92	686.16	1234.15	1163.88	1695867.87	414663.09	39°38'0.4980"N	80°34'47.5137"W	1696.39	43.322	3.11	1.06	-2.93
8396.00	88.430	331.330	7602.60	780.66	1317.61	1118.59	1695822.58	414746.55	39°38'1.3174"N	80°34'48.1054"W	1728.39	40.330	0.40	0.11	-0.39
8491.00	88.400	330.640	7605.23	875.07	1400.66	1072.53	1695776.52	414829.59	39°38'2.1326"N	80°34'48.7068"W	1764.13	37.442	0.73	-0.03	-0.73
8586.00	89.850	330.920	7606.68	969.46	1483.56	1026.16	1695730.16	414912.49	39°38'2.9464"N	80°34'49.3122"W	1803.87	34.671	1.55	1.53	0.29



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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Cash 5H ST01
Field	Wetzel	API	47-103-03523-0000
Facility	Cash Pad	Wellbore	Cash 5H ST01 AWB
Slot	Slot 05	Sidetrack from	Cash 5H AWB Proj: at 1342.00 MD

WELLPATH DATA (246 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]
8681.00	89.730	330.890	7607.03	1063.89	1566.57	979.97	1695683.97	414995.49	39°38'3.7613"N	80°34'49.9153"W	1847.83	32.028	0.13	-0.13	-0.03
8776.00	89.600	330.590	7607.59	1158.29	1649.45	933.53	1695637.54	415078.37	39°38'4.5748"N	80°34'50.5215"W	1895.30	29.508	0.34	-0.14	-0.32
8871.00	89.360	330.470	7608.45	1252.65	1732.15	886.80	1695590.80	415161.07	39°38'5.3865"N	80°34'51.1315"W	1945.96	27.111	0.28	-0.25	-0.13
8966.00	89.540	330.770	7609.36	1347.02	1814.93	840.19	1695544.20	415243.84	39°38'6.1990"N	80°34'51.7399"W	1999.97	24.841	0.37	0.19	0.32
9061.00	89.570	330.640	7610.10	1441.41	1897.78	793.71	1695497.72	415326.68	39°38'7.0122"N	80°34'52.3467"W	2057.07	22.696	0.14	0.03	-0.14
9156.00	89.510	330.690	7610.86	1535.80	1980.59	747.17	1695451.18	415409.49	39°38'7.8251"N	80°34'52.9542"W	2116.84	20.669	0.08	-0.06	0.05
9252.00	89.480	330.460	7611.71	1631.16	2064.21	700.01	1695404.03	415493.10	39°38'8.6458"N	80°34'53.5699"W	2179.67	18.733	0.24	-0.03	-0.24
9347.00	89.760	330.490	7612.34	1725.50	2146.87	653.19	1695357.21	415575.76	39°38'9.4571"N	80°34'54.1809"W	2244.04	16.923	0.30	0.29	0.03
9442.00	89.510	330.840	7612.94	1819.89	2229.68	606.65	1695310.68	415658.57	39°38'10.2700"N	80°34'54.7885"W	2310.74	15.221	0.45	-0.26	0.37
9536.00	89.600	330.880	7613.67	1913.31	2311.78	560.88	1695264.91	415740.66	39°38'11.0759"N	80°34'55.3861"W	2378.85	13.637	0.10	0.10	0.04
9632.00	89.850	330.830	7614.13	2008.73	2395.63	514.13	1695218.16	415824.50	39°38'11.8989"N	80°34'55.9966"W	2450.18	12.113	0.27	0.26	-0.05
9727.00	89.910	330.620	7614.33	2103.13	2478.49	467.67	1695171.70	415907.36	39°38'12.7123"N	80°34'56.6031"W	2522.23	10.686	0.23	0.06	-0.22
9822.00	89.820	330.760	7614.55	2197.52	2561.33	421.17	1695125.20	415990.20	39°38'13.5254"N	80°34'57.2102"W	2595.73	9.338	0.18	-0.09	0.15
9917.00	89.820	330.620	7614.85	2291.91	2644.17	374.66	1695078.70	416073.03	39°38'14.3385"N	80°34'57.8174"W	2670.58	8.065	0.15	0.00	-0.15
10010.00	89.940	330.370	7615.05	2384.28	2725.11	328.86	1695032.90	416153.96	39°38'15.1329"N	80°34'58.4152"W	2744.88	6.881	0.30	0.13	-0.27
10107.00	89.790	329.790	7615.28	2480.53	2809.18	280.48	1694984.52	416238.03	39°38'15.9580"N	80°34'59.0466"W	2823.15	5.702	0.62	-0.15	-0.60
10201.00	89.820	329.540	7615.60	2573.72	2890.31	233.00	1694937.05	416319.15	39°38'16.7541"N	80°34'59.6659"W	2899.69	4.609	0.27	0.03	-0.27
10296.00	90.040	329.740	7615.71	2667.90	2972.28	184.99	1694889.03	416401.12	39°38'17.5585"N	80°35'0.2922"W	2978.03	3.561	0.31	0.23	0.21
10391.00	89.910	329.940	7615.75	2762.12	3054.42	137.26	1694841.31	416483.26	39°38'18.3645"N	80°35'0.9149"W	3057.50	2.573	0.25	-0.14	0.21
10487.00	89.940	329.660	7615.88	2857.33	3137.39	88.97	1694793.02	416566.22	39°38'19.1787"N	80°35'1.5449"W	3138.65	1.624	0.29	0.03	-0.29
10582.00	89.850	330.020	7616.05	2951.55	3219.53	41.24	1694745.29	416648.35	39°38'19.9847"N	80°35'2.1676"W	3219.80	0.734	0.39	-0.09	0.38
10677.00	89.790	329.450	7616.35	3045.75	3301.58	-6.64	1694697.42	416730.40	39°38'20.7899"N	80°35'2.7922"W	3301.59	359.885	0.60	-0.06	-0.60
10772.00	89.910	330.250	7616.60	3139.97	3383.73	-54.36	1694649.71	416812.54	39°38'21.5960"N	80°35'3.4148"W	3384.17	359.080	0.85	0.13	0.84
10868.00	90.340	329.670	7616.39	3235.21	3466.83	-102.41	1694601.65	416895.64	39°38'22.4115"N	80°35'4.0418"W	3468.35	358.308	0.75	0.45	-0.60
10963.00	90.280	329.720	7615.88	3329.40	3548.85	-150.35	1694553.72	416977.65	39°38'23.2164"N	80°35'4.6672"W	3552.03	357.574	0.08	-0.06	0.05
11059.00	90.710	329.830	7615.05	3424.59	3631.80	-198.68	1694505.40	417060.59	39°38'24.0303"N	80°35'5.2976"W	3637.23	356.869	0.46	0.45	0.11
11154.00	89.880	329.860	7614.56	3518.81	3713.94	-246.40	1694457.68	417142.73	39°38'24.8364"N	80°35'5.9203"W	3722.10	356.204	0.87	-0.87	0.03
11249.00	89.820	329.950	7614.81	3613.05	3796.13	-294.03	1694410.05	417224.92	39°38'25.6429"N	80°35'6.5418"W	3807.50	355.571	0.11	-0.06	0.09
11345.00	89.570	329.880	7615.32	3708.27	3879.20	-342.16	1694361.93	417307.98	39°38'26.4581"N	80°35'7.1697"W	3894.26	354.959	0.27	-0.26	-0.07
11440.00	89.510	328.650	7616.08	3802.36	3960.85	-390.70	1694313.38	417389.63	39°38'27.2592"N	80°35'7.8029"W	3980.07	354.366	1.30	-0.06	-1.29



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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Cash 5H ST01
Field	Wetzel	API	47-103-03523-0000
Facility	Cash Pad	Wellbore	Cash 5H ST01 AWB
Slot	Slot 05	Sidetrack from	Cash 5H AWB Proj: at 1342.00 MD

WELLPATH DATA (246 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]
11535.00	89.540	328.590	7616.87	3896.30	4041.95	-440.17	1694263.92	417470.72	39°38'28.0548"N	80°35'8.4477"W	4065.85	353.785	0.07	0.03	-0.06
11630.00	89.570	328.660	7617.61	3990.24	4123.06	-489.63	1694214.46	417551.83	39°38'28.8504"N	80°35'9.0924"W	4152.03	353.228	0.08	0.03	0.07
11724.00	89.630	328.610	7618.26	4083.20	4203.32	-538.55	1694165.54	417632.08	39°38'29.6377"N	80°35'9.7301"W	4237.68	352.699	0.08	0.06	-0.05
11820.00	89.880	329.960	7618.67	4178.28	4285.85	-587.59	1694116.51	417714.61	39°38'30.4475"N	80°35'10.3696"W	4325.94	352.193	1.43	0.26	1.41
11916.00	89.480	328.410	7619.21	4273.35	4368.29	-636.76	1694067.34	417797.05	39°38'31.2563"N	80°35'11.0109"W	4414.46	351.706	1.67	-0.42	-1.61
12011.00	90.000	330.430	7619.64	4367.47	4450.08	-685.09	1694019.01	417878.82	39°38'32.0587"N	80°35'11.6412"W	4502.50	351.248	2.20	0.55	2.13
12106.00	89.790	328.970	7619.82	4461.66	4532.10	-733.02	1693971.09	417960.84	39°38'32.8636"N	80°35'12.2665"W	4590.99	350.813	1.55	-0.22	-1.54
12201.00	90.190	330.920	7619.83	4555.90	4614.32	-780.59	1693923.51	418043.06	39°38'33.6704"N	80°35'12.8874"W	4679.88	350.398	2.10	0.42	2.05
12296.00	89.600	329.700	7620.01	4650.21	4696.84	-827.65	1693876.46	418125.58	39°38'34.4804"N	80°35'13.5016"W	4769.21	350.006	1.43	-0.62	-1.28
12391.00	89.110	329.620	7621.08	4744.39	4778.83	-875.63	1693828.48	418207.56	39°38'35.2848"N	80°35'14.1276"W	4858.39	349.617	0.52	-0.52	-0.08
12486.00	89.110	329.780	7622.55	4838.57	4860.84	-923.56	1693780.56	418289.56	39°38'36.0896"N	80°35'14.7528"W	4947.80	349.242	0.17	0.00	0.17
12582.00	89.170	329.600	7623.99	4933.74	4943.71	-972.00	1693732.12	418372.43	39°38'36.9027"N	80°35'15.3849"W	5038.36	348.877	0.20	0.06	-0.19
12677.00	89.630	329.640	7624.99	5027.91	5025.66	-1020.04	1693684.08	418454.37	39°38'37.7068"N	80°35'16.0116"W	5128.13	348.527	0.49	0.48	0.04
12771.00	89.880	329.910	7625.39	5121.12	5106.88	-1067.36	1693636.77	418535.59	39°38'38.5038"N	80°35'16.6290"W	5217.23	348.195	0.39	0.27	0.29
12866.00	89.730	329.890	7625.71	5215.36	5189.07	-1115.00	1693589.13	418617.77	39°38'39.3103"N	80°35'17.2508"W	5307.51	347.873	0.16	-0.16	-0.02
12961.00	89.390	329.310	7626.44	5309.52	5271.01	-1163.07	1693541.06	418699.70	39°38'40.1143"N	80°35'17.8779"W	5397.80	347.557	0.71	-0.36	-0.61
13056.00	89.600	329.520	7627.28	5403.65	5352.79	-1211.41	1693492.72	418781.48	39°38'40.9167"N	80°35'18.5084"W	5488.15	347.248	0.31	0.22	0.22
13151.00	89.700	329.890	7627.86	5497.84	5434.81	-1259.33	1693444.81	418863.50	39°38'41.7216"N	80°35'19.1337"W	5578.81	346.954	0.40	0.11	0.39
13246.00	89.670	329.720	7628.38	5592.05	5516.92	-1307.11	1693397.03	418945.60	39°38'42.5273"N	80°35'19.7571"W	5669.65	346.671	0.18	-0.03	-0.18
13341.00	89.730	329.890	7628.88	5686.26	5599.03	-1354.89	1693349.25	419027.71	39°38'43.3330"N	80°35'20.3806"W	5760.63	346.397	0.19	0.06	0.18
13436.00	89.480	329.800	7629.53	5780.48	5681.17	-1402.61	1693301.53	419109.84	39°38'44.1390"N	80°35'21.0033"W	5851.75	346.132	0.28	-0.26	-0.09
13532.00	90.000	329.860	7629.97	5875.69	5764.16	-1450.86	1693253.29	419192.83	39°38'44.9534"N	80°35'21.6329"W	5943.95	345.872	0.55	0.54	0.06
13627.00	90.100	329.900	7629.89	5969.92	5846.34	-1498.53	1693205.62	419275.00	39°38'45.7598"N	80°35'22.2550"W	6035.33	345.623	0.11	0.11	0.04
13722.00	89.880	329.250	7629.90	6064.09	5928.25	-1546.64	1693157.52	419356.91	39°38'46.5635"N	80°35'22.8826"W	6126.69	345.378	0.72	-0.23	-0.68
13817.00	90.030	330.040	7629.98	6158.27	6010.23	-1594.65	1693109.51	419438.88	39°38'47.3679"N	80°35'23.5090"W	6218.18	345.141	0.85	0.16	0.83
13912.00	89.940	329.690	7630.00	6252.49	6092.39	-1642.34	1693061.82	419521.04	39°38'48.1741"N	80°35'24.1314"W	6309.87	344.913	0.38	-0.09	-0.37
14007.00	89.420	329.200	7630.53	6346.63	6174.20	-1690.63	1693013.53	419602.84	39°38'48.9768"N	80°35'24.7614"W	6401.48	344.686	0.75	-0.55	-0.52
14102.00	89.510	329.800	7631.42	6440.77	6256.05	-1738.85	1692965.32	419684.68	39°38'49.7799"N	80°35'25.3904"W	6493.21	344.467	0.64	0.09	0.63
14292.00	89.730	329.730	7632.68	6629.18	6420.20	-1834.52	1692869.65	419848.82	39°38'51.3906"N	80°35'26.6389"W	6677.16	344.053	0.12	0.12	-0.04
14387.00	89.730	329.500	7633.13	6723.35	6502.15	-1882.57	1692821.60	419930.77	39°38'52.1947"N	80°35'27.2658"W	6769.20	343.853	0.24	0.00	-0.24



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Actual Wellpath Report

Cash 5H ST01 AWB Proj:20521'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	EQT PRODUCTION COMPANY		Well	Cash 5H ST01
Field	Wetzel		API	47-103-03523-0000
Facility	Cash Pad		Wellbore	Cash 5H ST01 AWB
Slot	Slot 05		Sidetrack from	Cash 5H AWB Proj: at 1342.00 MD

WELLPATH DATA (246 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]
14482.00	89.730	329.710	7633.58	6817.52	6584.09	-1930.64	1692773.54	420012.71	39°38'52.9987"N	80°35'27.8930"W	6861.31	343.657	0.22	0.00	0.22
14577.00	89.360	329.710	7634.33	6911.71	6666.12	-1978.55	1692725.63	420094.73	39°38'53.8036"N	80°35'28.5182"W	6953.55	343.469	0.39	-0.39	0.00
14672.00	89.570	329.930	7635.22	7005.92	6748.24	-2026.31	1692677.88	420176.84	39°38'54.6094"N	80°35'29.1414"W	7045.89	343.286	0.32	0.22	0.23
14767.00	89.820	329.970	7635.72	7100.16	6830.47	-2073.88	1692630.31	420259.07	39°38'55.4163"N	80°35'29.7623"W	7138.36	343.111	0.27	0.26	0.04
14862.00	89.910	329.910	7635.95	7194.41	6912.69	-2121.46	1692582.73	420341.29	39°38'56.2231"N	80°35'30.3834"W	7230.90	342.939	0.11	0.09	-0.06
14957.00	89.850	329.910	7636.15	7288.64	6994.89	-2169.09	1692535.10	420423.48	39°38'57.0297"N	80°35'31.0050"W	7323.48	342.772	0.06	-0.06	0.00
15052.00	89.630	329.090	7636.58	7382.79	7076.74	-2217.31	1692486.89	420505.33	39°38'57.8328"N	80°35'31.6340"W	7415.98	342.603	0.89	-0.23	-0.86
15147.00	89.940	328.180	7636.93	7476.73	7157.86	-2266.75	1692437.45	420586.44	39°38'58.6285"N	80°35'32.2787"W	7508.20	342.428	1.01	0.33	-0.96
15242.00	90.000	328.830	7636.98	7570.64	7238.86	-2316.38	1692387.82	420667.44	39°38'59.4231"N	80°35'32.9258"W	7600.44	342.256	0.69	0.06	0.68
15337.00	90.280	329.880	7636.75	7664.76	7320.59	-2364.81	1692339.40	420749.16	39°39'0.2249"N	80°35'33.5575"W	7693.07	342.098	1.14	0.29	1.11
15432.00	90.190	329.830	7636.36	7758.98	7402.74	-2412.51	1692291.69	420831.31	39°39'1.0311"N	80°35'34.1801"W	7785.94	341.949	0.11	-0.09	-0.05
15527.00	90.190	329.810	7636.05	7853.20	7484.87	-2460.27	1692243.94	420913.43	39°39'1.8369"N	80°35'34.8034"W	7878.84	341.804	0.02	0.00	-0.02
15623.00	89.940	329.490	7635.94	7948.37	7567.71	-2508.78	1692195.44	420996.27	39°39'2.6497"N	80°35'35.4363"W	7972.72	341.659	0.42	-0.26	-0.33
15718.00	89.880	329.790	7636.09	8042.55	7649.68	-2556.79	1692147.42	421078.23	39°39'3.4540"N	80°35'36.0629"W	8065.66	341.519	0.32	-0.06	0.32
15813.00	89.760	330.020	7636.38	8136.78	7731.87	-2604.43	1692099.79	421160.42	39°39'4.2606"N	80°35'36.6847"W	8158.73	341.384	0.27	-0.13	0.24
15908.00	89.540	329.210	7636.97	8230.95	7813.82	-2652.48	1692051.74	421242.36	39°39'5.0646"N	80°35'37.3117"W	8251.76	341.250	0.88	-0.23	-0.85
16003.00	89.690	330.030	7637.60	8325.12	7895.78	-2700.52	1692003.70	421324.31	39°39'5.8688"N	80°35'37.9386"W	8344.83	341.118	0.88	0.16	0.86
16097.00	89.790	329.820	7638.03	8418.37	7977.12	-2747.63	1691956.60	421405.65	39°39'6.6670"N	80°35'38.5534"W	8437.06	340.994	0.25	0.11	-0.22
16193.00	89.660	329.810	7638.49	8513.58	8060.10	-2795.90	1691908.33	421488.63	39°39'7.4812"N	80°35'39.1834"W	8531.25	340.869	0.14	-0.14	-0.01
16287.00	89.820	329.580	7638.92	8606.78	8141.26	-2843.33	1691860.91	421569.78	39°39'8.2775"N	80°35'39.8024"W	8623.49	340.748	0.30	0.17	-0.24
16383.00	89.880	329.770	7639.17	8701.95	8224.12	-2891.80	1691812.44	421652.64	39°39'9.0905"N	80°35'40.4349"W	8717.72	340.627	0.21	0.06	0.20
16478.00	89.910	329.870	7639.34	8796.17	8306.24	-2939.56	1691764.68	421734.75	39°39'9.8964"N	80°35'41.0583"W	8811.05	340.511	0.11	0.03	0.11
16572.00	89.570	329.560	7639.77	8889.37	8387.41	-2986.96	1691717.28	421815.92	39°39'10.6928"N	80°35'41.6769"W	8903.41	340.398	0.49	-0.36	-0.33
16667.00	90.030	329.740	7640.10	8983.55	8469.39	-3034.96	1691669.28	421897.90	39°39'11.4972"N	80°35'42.3033"W	8996.76	340.285	0.52	0.48	0.19
16763.00	89.940	329.710	7640.13	9078.74	8552.30	-3083.36	1691620.89	421980.80	39°39'12.3107"N	80°35'42.9350"W	9091.15	340.174	0.10	-0.09	-0.03
16857.00	89.750	329.640	7640.38	9171.93	8633.44	-3130.82	1691573.43	422061.93	39°39'13.1068"N	80°35'43.5544"W	9183.59	340.067	0.22	-0.20	-0.07
16952.00	89.350	329.450	7641.13	9266.09	8715.33	-3178.97	1691525.28	422143.82	39°39'13.9102"N	80°35'44.1827"W	9277.01	339.960	0.47	-0.42	-0.20
17046.00	89.350	329.720	7642.19	9359.26	8796.39	-3226.56	1691477.70	422224.87	39°39'14.7056"N	80°35'44.8036"W	9369.48	339.857	0.29	0.00	0.29
17142.00	89.570	329.780	7643.10	9454.45	8879.31	-3274.92	1691429.34	422307.79	39°39'15.5192"N	80°35'45.4348"W	9464.00	339.755	0.24	0.23	0.06
17237.00	89.690	329.830	7643.71	9548.66	8961.42	-3322.70	1691381.57	422389.89	39°39'16.3249"N	80°35'46.0584"W	9557.58	339.656	0.14	0.13	0.05

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Actual Wellpath Report

Cash 5H ST01 AWB Proj:20521'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Cash 5H ST01
Field	Wetzel	API	47-103-03523-0000
Facility	Cash Pad	Wellbore	Cash 5H ST01 AWB
Slot	Slot 05	Sidetrack from	Cash 5H AWB Proj: at 1342.00 MD

WELLPATH DATA (246 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]
17332.00	89.690	329.830	7644.23	9642.88	9043.55	-3370.44	1691333.83	422472.02	39°39'17.1308"N	80°35'46.6816"W	9651.20	339.560	0.00	0.00	0.00
17427.00	89.510	329.190	7644.89	9737.02	9125.41	-3418.64	1691285.63	422553.87	39°39'17.9339"N	80°35'47.3106"W	9744.75	339.463	0.70	-0.19	-0.67
17522.00	90.060	329.910	7645.24	9831.18	9207.31	-3466.78	1691237.49	422635.76	39°39'18.7374"N	80°35'47.9388"W	9838.35	339.367	0.95	0.58	0.76
17616.00	89.880	329.450	7645.29	9924.38	9288.45	-3514.24	1691190.04	422716.90	39°39'19.5336"N	80°35'48.5582"W	9931.02	339.276	0.53	-0.19	-0.49
17712.00	89.970	329.530	7645.42	10019.51	9371.16	-3562.98	1691141.30	422799.60	39°39'20.3451"N	80°35'49.1942"W	10025.64	339.183	0.13	0.09	0.08
17807.00	89.910	329.580	7645.52	10113.67	9453.06	-3611.11	1691093.17	422881.50	39°39'21.1486"N	80°35'49.8224"W	10119.31	339.093	0.08	-0.06	0.05
17902.00	90.000	329.570	7645.59	10207.84	9534.98	-3659.22	1691045.06	422963.41	39°39'21.9524"N	80°35'50.4502"W	10213.01	339.005	0.10	0.09	-0.01
17997.00	90.740	330.170	7644.98	10302.06	9617.14	-3706.91	1690997.38	423045.57	39°39'22.7586"N	80°35'51.0727"W	10306.82	338.921	1.00	0.78	0.63
18092.00	89.970	329.780	7644.39	10396.31	9699.39	-3754.44	1690949.85	423127.81	39°39'23.5656"N	80°35'51.6932"W	10400.67	338.840	0.91	-0.81	-0.41
18187.00	89.850	329.640	7644.54	10490.50	9781.42	-3802.36	1690901.94	423209.84	39°39'24.3705"N	80°35'52.3186"W	10494.48	338.757	0.19	-0.13	-0.15
18282.00	89.880	329.680	7644.76	10584.69	9863.41	-3850.34	1690853.95	423291.82	39°39'25.1749"N	80°35'52.9449"W	10588.29	338.676	0.05	0.03	0.04
18377.00	89.940	329.740	7644.91	10678.88	9945.44	-3898.26	1690806.04	423373.85	39°39'25.9798"N	80°35'53.5703"W	10682.14	338.597	0.09	0.06	0.06
18473.00	89.970	329.870	7644.99	10774.09	10028.41	-3946.54	1690757.76	423456.82	39°39'26.7940"N	80°35'54.2006"W	10777.02	338.519	0.14	0.03	0.14
18568.00	90.090	329.780	7644.94	10868.30	10110.54	-3994.29	1690710.01	423538.94	39°39'27.5998"N	80°35'54.8239"W	10870.94	338.443	0.16	0.13	-0.09
18663.00	90.000	329.700	7644.87	10962.50	10192.59	-4042.17	1690662.14	423620.99	39°39'28.4049"N	80°35'55.4488"W	10964.86	338.368	0.13	-0.09	-0.08
18758.00	89.910	329.710	7644.94	11056.70	10274.62	-4090.09	1690614.22	423703.01	39°39'29.2097"N	80°35'56.0743"W	11058.78	338.294	0.10	-0.09	0.01
18853.00	89.880	329.900	7645.11	11150.91	10356.73	-4137.87	1690566.44	423785.12	39°39'30.0154"N	80°35'56.6980"W	11152.75	338.222	0.20	-0.03	0.20
18948.00	89.910	329.640	7645.29	11245.12	10438.81	-4185.70	1690518.62	423867.19	39°39'30.8208"N	80°35'57.3223"W	11246.73	338.150	0.28	0.03	-0.27
19042.00	90.030	330.000	7645.34	11338.34	10520.07	-4232.95	1690471.36	423948.45	39°39'31.6181"N	80°35'57.9392"W	11339.74	338.082	0.40	0.13	0.38
19137.00	89.540	329.740	7645.69	11432.57	10602.23	-4280.64	1690423.68	424030.60	39°39'32.4243"N	80°35'58.5617"W	11433.78	338.014	0.58	-0.52	-0.27
19232.00	89.480	329.830	7646.51	11526.77	10684.32	-4328.45	1690375.88	424112.69	39°39'33.2297"N	80°35'59.1858"W	11527.80	337.946	0.11	-0.06	0.09
19327.00	89.480	329.700	7647.37	11620.98	10766.40	-4376.28	1690328.05	424194.76	39°39'34.0350"N	80°35'59.8102"W	11621.84	337.879	0.14	0.00	-0.14
19422.00	89.690	329.880	7648.06	11715.18	10848.49	-4424.08	1690280.25	424276.85	39°39'34.8406"N	80°36'0.4341"W	11715.90	337.814	0.29	0.22	0.19
19517.00	89.690	329.840	7648.57	11809.41	10930.65	-4471.78	1690232.55	424359.00	39°39'35.6467"N	80°36'1.0569"W	11809.99	337.750	0.04	0.00	-0.04
19612.00	89.570	329.710	7649.18	11903.61	11012.73	-4519.60	1690184.73	424441.08	39°39'36.4521"N	80°36'1.6811"W	11904.08	337.687	0.19	-0.13	-0.14
19707.00	89.570	329.650	7649.90	11997.80	11094.74	-4567.56	1690136.78	424523.08	39°39'37.2566"N	80°36'2.3071"W	11998.16	337.624	0.06	0.00	-0.06
19802.00	89.660	329.880	7650.54	12092.00	11176.81	-4615.40	1690088.95	424605.15	39°39'38.0619"N	80°36'2.9316"W	12092.27	337.562	0.26	0.09	0.24
19896.00	89.940	329.770	7650.86	12185.23	11258.07	-4662.65	1690041.70	424686.40	39°39'38.8593"N	80°36'3.5484"W	12185.42	337.503	0.32	0.30	-0.12
19992.00	89.940	329.620	7650.96	12280.41	11340.95	-4711.09	1689993.26	424769.28	39°39'39.6725"N	80°36'4.1807"W	12280.54	337.442	0.16	0.00	-0.16
20087.00	89.880	329.820	7651.11	12374.60	11422.99	-4758.99	1689945.36	424851.31	39°39'40.4774"N	80°36'4.8060"W	12374.68	337.383	0.22	-0.06	0.21



Actual Wellpath Report

Cash 5H ST01 AWB Proj:20521'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Cash 5H ST01
Field	Wetzel	API	47-103-03523-0000
Facility	Cash Pad	Wellbore	Cash 5H ST01 AWB
Slot	Slot 05	Sidetrack from	Cash 5H AWB Proj: at 1342.00 MD

WELLPATH DATA (246 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]
20181.00	89.720	329.700	7651.44	12467.82	11504.20	-4806.33	1689898.03	424932.52	39°39'41.2742"N	80°36'5.4240"W	12467.86	337.325	0.21	-0.17	-0.13
20277.00	89.840	329.670	7651.81	12563.00	11587.07	-4854.79	1689849.57	425015.38	39°39'42.0873"N	80°36'6.0565"W	12563.01	337.267	0.13	0.13	-0.03
20372.00	89.970	329.410	7651.97	12657.15	11668.96	-4902.94	1689801.42	425097.27	39°39'42.8907"N	80°36'6.6851"W	12657.15	337.209	0.31	0.14	-0.27
20467.00	89.970	329.730	7652.02	12751.32	11750.88	-4951.06	1689753.30	425179.18	39°39'43.6944"N	80°36'7.3131"W	12751.32	337.153	0.34	0.00	0.34
20496.00	89.750	329.490	7652.09	12780.06	11775.89	-4965.73	1689738.63	425204.19	39°39'43.9398"N	80°36'7.5046"W	12780.07	337.136	1.12	-0.76	-0.83
20521.00‡	89.750	329.490	7652.20	12804.84	11797.43	-4978.42	1689725.94	425225.73	39°39'44.1511"N	80°36'7.6703"W	12804.84	337.121	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Cash 5H ST01 AWB Ref Wellpath: Cash 5H ST01 AWB Proj:20521'

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]
26in Conductor	28.00	68.00	40.00	28.00	68.00	0.00	0.00	0.03	0.03
17.5in Open Hole	68.00	1341.00	1273.00	68.00	1341.00	0.03	0.03	0.57	1.98
13.375in Casing Surface	28.00	1341.00	1313.00	28.00	1341.00	0.00	0.00	0.57	1.98
12.25in Open Hole	1341.00	1342.00	1.00	1341.00	1342.00	0.57	1.98	0.57	1.98
12.25in Open Hole	1342.00	2793.00	1451.00	1342.00	2786.56	0.57	1.98	23.50	119.14
9.625in Casing Intermediate	28.00	2793.00	2765.00	28.00	2786.56	0.00	0.00	23.50	119.14
8.75in Open Hole	2793.00	7170.00	4377.00	2786.56	6949.38	23.50	119.14	490.74	1350.64
8.5in Open Hole	7170.00	20521.00	13351.00	6949.38	7652.20	490.74	1350.64	11797.43	-4978.42
6in Casing Production	28.00	20521.00	20493.00	28.00	7652.20	0.00	0.00	11797.43	-4978.42

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Actual Wellpath Report

Cash 5H ST01 AWB Proj:20521'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Cash 5H ST01
Field	Wetzel	API	47-103-03523-0000
Facility	Cash Pad	Wellbore	Cash 5H ST01 AWB
Slot	Slot 05	Sidetrack from	Cash 5H AWB Proj: at 1342.00 MD

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Cash 5H ST01 BHL Rev-0	7593.00	11803.68	-4966.56	1689737.80	425231.98	39°39'44.2143"N	80°36'7.5196"W	point
Cash 5H ST01 LP Rev-0	7593.00	1147.97	1222.14	1695926.12	414576.92	39°37'59.6532"N	80°34'46.7560"W	point
Cash Hardline 3(8-24-2023)	9116.00	11703.24	-5139.51	1689564.86	425131.54	39°39'43.2007"N	80°36'9.7151"W	polygon
2D Polygon: dimensions not calculated								

WELLPATH COMPOSITION - Ref Wellbore: Cash 5H ST01 AWB Ref Wellpath: Cash 5H ST01 AWB Proj:20521'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1315.00	Gyrodata 2015 - CT+WIR+DPIPE	01_Gyrodata Cont Gyro <17-1/2">(115'-1315')	Cash 5H AWB	8/31/2023
1315.00	1342.00	Gyrodata 2015 - CT+WIR+DPIPE	02_Gyrodata Cont Gyro <12-1/4">(1315')(1342'-1763')	Cash 5H AWB	9/7/2023
1342.00	7083.00	OWSG MWD rev2 + HRGM	03_SDI MWD <8-3/4">(1342')(1384'-7083')	Cash 5H ST01 AWB	8/31/2023
7083.00	20521.00	OWSG MWD rev2 + IFR1 + Sag + Multi-Station Correction	04_BH Lucida+SQC IFR1+SAG+FDIR <8-1/2">(7083)(7161'- 20496')	Cash 5H ST01 AWB	9/15/2023

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Cash 5H ST01 AWB Proj:20521'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Cash 5H ST01
Field	Wetzel	API	47-103-03523-0000
Facility	Cash Pad	Wellbore	Cash 5H ST01 AWB
Slot	Slot 05	Sidetrack from	Cash 5H AWB Proj: at 1342.00 MD

COMMENTS

Wellpath general comments

API: 47-103-03523-0000

BH Job #: 111957741

Rig: Patterson 292

Duration: 9/18/2023-9/20/2023

01_Gyrodata Cont Gyro <17-1/2">(115'-1315')

02_Gyrodata Cont Gyro <12-1/4">(1315')(1342'-1763')

03_SDI MWD <8-3/4">(1342')(1384'-7083')

04_BH Lucida+SQC IFR1+SAG+FDIR <8-1/2">(7083)(7161'- 20496')

Landing Pt. @ 8206' MD

Final Survey @ 20496' MD

Projected MD at TD: 20521'

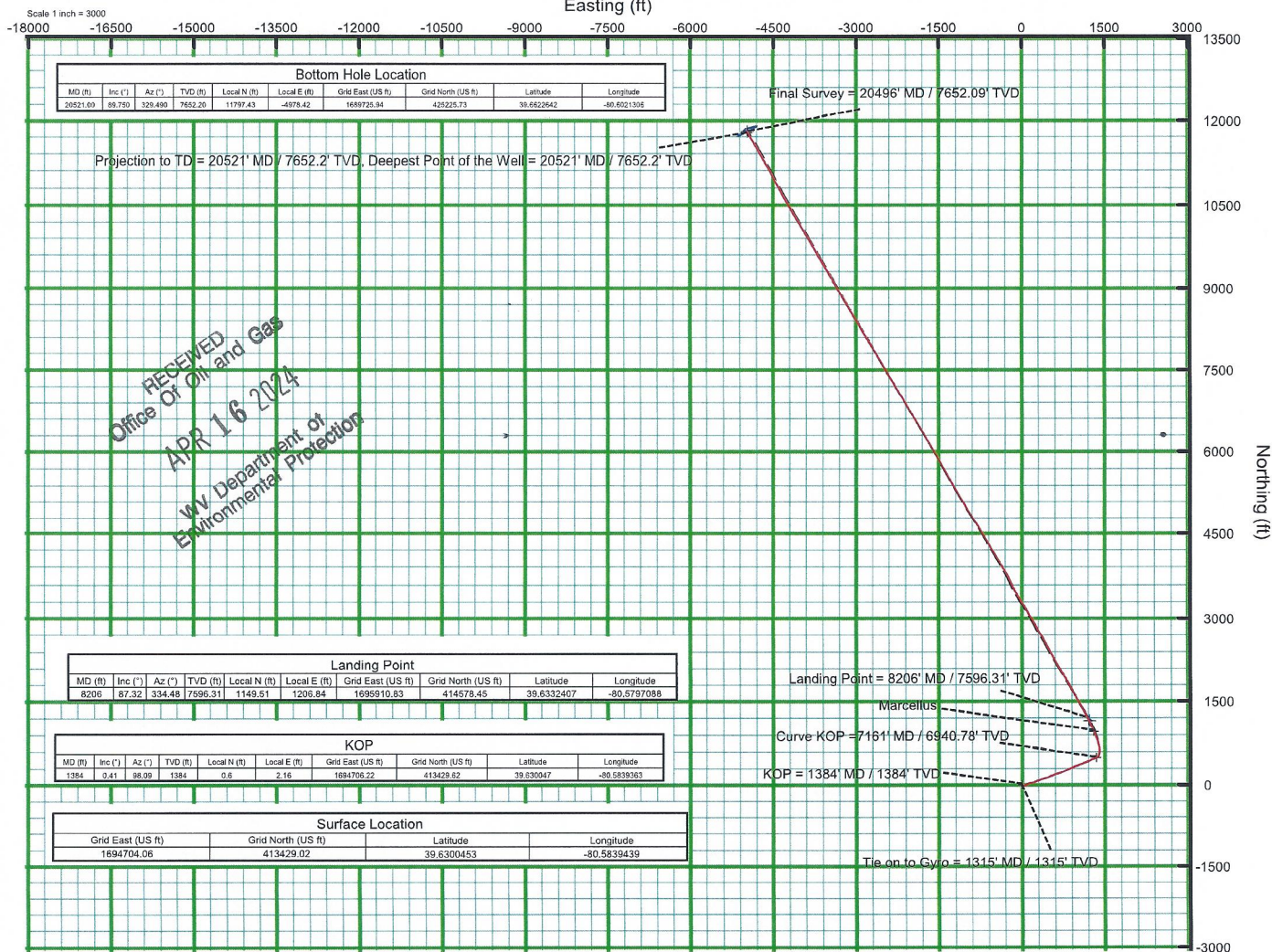
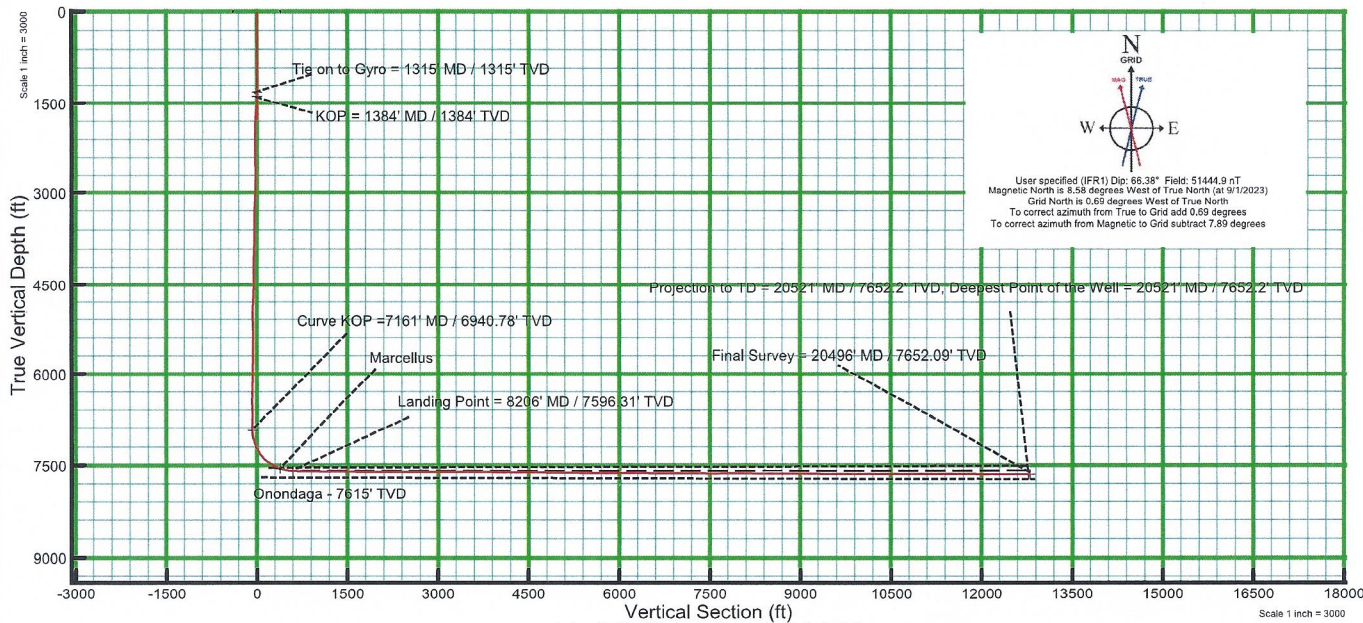
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KB Elevation=1516 FT
 Ground Elevation=1488 FT
 All Survey Measurements were taken from KB Elevation



07/19/2024