



# Actual Wellpath Report

Cash 7H AWB Proj: 21071'  
Page 1 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Cash 7H
Field	Wetzel	API	47-103-03522-0000
Facility	Cash Pad	Wellbore	Cash 7H AWB
Slot	Slot 07		

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 2:07:47 PM
Convergence at slot	0.69° 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	39.17	22.16	1694711.45	413442.08	39°37'48.2930"N	80°35'2.1057"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 07)	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	341.52°

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Page 2 of 12



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## WELLPATH DATA (243 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	216.460	0.00	0.00	0.00	0.00	1694711.45	413442.08	39°37'48.2930"N	80°35'2.1057"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	216.460	28.00	0.00	0.00	0.00	1694711.45	413442.08	39°37'48.2930"N	80°35'2.1057"W	0.00	0.000	0.00	0.00	0.00
115.00	0.420	216.460	115.00	-0.18	-0.26	-0.19	1694711.26	413441.82	39°37'48.2905"N	80°35'2.1081"W	0.32	216.460	0.48	0.48	0.00
215.00	0.210	211.050	215.00	-0.51	-0.71	-0.50	1694710.95	413441.37	39°37'48.2860"N	80°35'2.1120"W	0.87	215.319	0.21	-0.21	-5.41
315.00	0.300	220.540	315.00	-0.77	-1.06	-0.77	1694710.68	413441.02	39°37'48.2824"N	80°35'2.1153"W	1.31	215.764	0.10	0.09	9.49
415.00	0.220	213.970	415.00	-1.02	-1.42	-1.04	1694710.41	413440.66	39°37'48.2789"N	80°35'2.1188"W	1.76	216.277	0.09	-0.08	-6.57
515.00	0.100	172.200	515.00	-1.22	-1.67	-1.14	1694710.31	413440.41	39°37'48.2764"N	80°35'2.1200"W	2.02	214.335	0.16	-0.12	-41.77
615.00	0.060	209.470	615.00	-1.34	-1.80	-1.15	1694710.30	413440.28	39°37'48.2751"N	80°35'2.1202"W	2.14	212.647	0.06	-0.04	37.27
715.00	0.040	101.780	715.00	-1.39	-1.85	-1.14	1694710.31	413440.23	39°37'48.2746"N	80°35'2.1201"W	2.18	211.713	0.08	-0.02	-107.69
815.00	0.100	141.320	815.00	-1.49	-1.93	-1.06	1694710.39	413440.15	39°37'48.2739"N	80°35'2.1189"W	2.20	208.713	0.07	0.06	39.54
915.00	0.190	144.300	914.99	-1.73	-2.13	-0.90	1694710.55	413439.95	39°37'48.2719"N	80°35'2.1169"W	2.31	203.009	0.09	0.09	2.98
1015.00	0.230	142.100	1014.99	-2.08	-2.42	-0.68	1694710.77	413439.66	39°37'48.2690"N	80°35'2.1141"W	2.52	195.777	0.04	0.04	-2.20
1115.00	0.240	137.580	1114.99	-2.46	-2.74	-0.42	1694711.03	413439.34	39°37'48.2659"N	80°35'2.1107"W	2.77	188.730	0.02	0.01	-4.52
1215.00	0.230	161.270	1214.99	-2.85	-3.08	-0.21	1694711.24	413439.00	39°37'48.2626"N	80°35'2.1080"W	3.09	183.982	0.10	-0.01	23.69
1315.00	0.080	139.930	1314.99	-3.12	-3.33	-0.11	1694711.34	413438.76	39°37'48.2602"N	80°35'2.1065"W	3.33	181.811	0.16	-0.15	-21.34
1415.00	0.170	174.510	1414.99	-3.33	-3.53	-0.05	1694711.40	413438.55	39°37'48.2582"N	80°35'2.1058"W	3.53	180.747	0.11	0.09	34.58
1515.00	0.180	118.380	1514.99	-3.59	-3.75	0.11	1694711.56	413438.33	39°37'48.2560"N	80°35'2.1038"W	3.75	178.374	0.16	0.01	-56.13
1615.00	0.190	96.110	1614.99	-3.77	-3.84	0.41	1694711.86	413438.24	39°37'48.2551"N	80°35'2.0999"W	3.86	173.915	0.07	0.01	-22.27
1715.00	0.120	56.740	1714.99	-3.81	-3.80	0.66	1694712.11	413438.28	39°37'48.2556"N	80°35'2.0967"W	3.86	170.122	0.12	-0.07	-39.37
1815.00	0.040	298.040	1814.99	-3.76	-3.73	0.72	1694712.17	413438.35	39°37'48.2563"N	80°35'2.0960"W	3.80	169.087	0.14	-0.08	-118.70
1915.00	0.120	338.220	1914.99	-3.63	-3.61	0.65	1694712.10	413438.47	39°37'48.2574"N	80°35'2.0969"W	3.67	169.818	0.09	0.08	40.18
2015.00	0.220	310.030	2014.99	-3.36	-3.39	0.46	1694711.91	413438.69	39°37'48.2596"N	80°35'2.0993"W	3.42	172.227	0.13	0.10	-28.19
2115.00	0.060	98.440	2114.99	-3.22	-3.28	0.37	1694711.82	413438.80	39°37'48.2607"N	80°35'2.1005"W	3.30	173.594	0.27	-0.16	148.41
2215.00	0.310	117.830	2214.99	-3.44	-3.41	0.66	1694712.11	413438.67	39°37'48.2607"N	80°35'2.0968"W	3.47	169.066	0.25	0.25	19.39
2315.00	0.320	74.110	2314.99	-3.65	-3.46	1.17	1694712.62	413438.62	39°37'48.2590"N	80°35'2.0903"W	3.65	161.369	0.23	0.01	-43.72
2415.00	0.170	34.780	2414.99	-3.58	-3.26	1.52	1694712.97	413438.82	39°37'48.2610"N	80°35'2.0858"W	3.60	155.020	0.22	-0.15	-39.33
2515.00	0.170	89.760	2514.99	-3.53	-3.14	1.75	1694713.20	413438.94	39°37'48.2622"N	80°35'2.0828"W	3.60	150.827	0.16	0.00	54.98
2615.00	0.270	46.020	2614.99	-3.48	-2.98	2.07	1694713.52	413439.10	39°37'48.2639"N	80°35'2.0788"W	3.63	145.166	0.19	0.10	-43.74
2715.00	0.230	74.450	2714.98	-3.39	-2.76	2.43	1694713.88	413439.32	39°37'48.2661"N	80°35'2.0742"W	3.68	138.578	0.13	-0.04	28.43
2760.00	0.320	90.630	2759.98	-3.43	-2.74	2.65	1694714.10	413439.34	39°37'48.2663"N	80°35'2.0715"W	3.81	135.949	0.26	0.20	35.96



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Page 3 of 12



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Field	Wetzel	API	47-103-03522-0000
Facility	Cash Pad	Wellbore	Cash 7H AWB
Slot	Slot 07		

## WELLPATH DATA (243 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]
2859.00	0.500	88.240	2858.98	-3.65	-2.73	3.35	1694714.80	413439.35	39°37'48.2665"N	80°35'2.0624"W	4.32	129.091	0.18	0.18	-2.41
2903.00	1.070	69.960	2902.98	-3.69	-2.58	3.93	1694715.38	413439.50	39°37'48.2680"N	80°35'2.0551"W	4.70	123.254	1.40	1.30	-41.55
2946.00	1.990	48.120	2945.96	-3.38	-1.94	4.87	1694716.32	413440.14	39°37'48.2744"N	80°35'2.0432"W	5.24	111.765	2.50	2.14	-50.79
2989.00	3.260	47.290	2988.92	-2.59	-0.61	6.32	1694717.77	413441.47	39°37'48.2877"N	80°35'2.0249"W	6.35	95.557	2.95	2.95	-1.93
3032.00	4.100	44.990	3031.83	-1.40	1.30	8.31	1694719.75	413443.38	39°37'48.3069"N	80°35'1.9998"W	8.41	81.093	1.98	1.95	-5.35
3076.00	5.060	44.160	3075.69	0.20	3.81	10.77	1694722.22	413445.89	39°37'48.3319"N	80°35'1.9687"W	11.42	70.535	2.19	2.18	-1.89
3119.00	5.900	40.920	3118.49	2.19	6.84	13.54	1694724.99	413448.92	39°37'48.3622"N	80°35'1.9338"W	15.17	63.206	2.08	1.95	-7.53
3162.00	6.510	40.680	3161.24	4.57	10.36	16.57	1694728.02	413452.43	39°37'48.3974"N	80°35'1.8955"W	19.54	58.004	1.42	1.42	-0.56
3205.00	6.920	41.790	3203.94	7.10	14.14	19.89	1694731.34	413456.21	39°37'48.4351"N	80°35'1.8537"W	24.40	54.599	1.00	0.95	2.58
3248.00	7.190	43.040	3246.62	9.67	18.03	23.45	1694734.90	413460.11	39°37'48.4741"N	80°35'1.8088"W	29.58	52.442	0.72	0.63	2.91
3292.00	7.420	46.840	3290.26	12.17	21.99	27.40	1694738.85	413464.07	39°37'48.5136"N	80°35'1.7589"W	35.14	51.256	1.22	0.52	8.64
3335.00	8.120	50.450	3332.86	14.42	25.82	31.77	1694743.22	413467.90	39°37'48.5520"N	80°35'1.7037"W	40.94	50.897	1.98	1.63	8.40
3378.00	9.160	48.170	3375.38	16.87	30.04	36.66	1694748.11	413472.12	39°37'48.5943"N	80°35'1.6418"W	47.40	50.672	2.55	2.42	-5.30
3421.00	10.470	45.830	3417.75	19.92	35.04	42.02	1694753.46	413477.12	39°37'48.6444"N	80°35'1.5742"W	54.71	50.170	3.18	3.05	-5.44
3465.00	11.750	42.530	3460.92	23.82	41.13	47.91	1694759.36	413483.21	39°37'48.7052"N	80°35'1.4997"W	63.15	49.355	3.25	2.91	-7.50
3508.00	12.960	41.470	3502.92	28.36	47.97	54.07	1694765.51	413490.05	39°37'48.7736"N	80°35'1.4222"W	72.28	48.418	2.86	2.81	-2.47
3551.00	13.800	42.650	3544.76	33.25	55.36	60.73	1694772.18	413497.43	39°37'48.8473"N	80°35'1.3381"W	82.18	47.652	2.05	1.95	2.74
3595.00	14.510	44.520	3587.42	38.29	63.15	68.15	1694779.60	413505.22	39°37'48.9252"N	80°35'1.2445"W	92.91	47.184	1.92	1.61	4.25
3638.00	15.170	45.140	3628.99	43.23	70.96	75.92	1694787.36	413513.03	39°37'49.0033"N	80°35'1.1464"W	103.92	46.935	1.58	1.53	1.44
3681.00	16.190	46.780	3670.39	48.24	79.03	84.28	1694795.72	413521.10	39°37'49.0841"N	80°35'1.0409"W	115.53	46.840	2.59	2.37	3.81
3725.00	17.340	47.280	3712.52	53.50	87.68	93.56	1694805.01	413529.75	39°37'49.1707"N	80°35'0.9235"W	128.23	46.859	2.63	2.61	1.14
3768.00	18.860	47.780	3753.39	58.93	96.70	103.42	1694814.86	413538.77	39°37'49.2610"N	80°35'0.7990"W	141.58	46.924	3.55	3.53	1.16
3811.00	20.170	46.760	3793.92	64.83	106.45	113.97	1694825.41	413548.52	39°37'49.3586"N	80°35'0.6657"W	155.95	46.954	3.15	3.05	-2.37
3854.00	21.650	45.360	3834.08	71.44	117.10	125.01	1694836.45	413559.17	39°37'49.4652"N	80°35'0.5262"W	171.29	46.872	3.63	3.44	-3.26
3897.00	23.070	44.240	3873.85	78.79	128.71	136.53	1694847.98	413570.78	39°37'49.5813"N	80°35'0.3807"W	187.64	46.690	3.45	3.30	-2.60
3941.00	23.960	44.700	3914.19	86.78	141.24	148.83	1694860.27	413583.31	39°37'49.7065"N	80°35'0.2254"W	205.18	46.500	2.07	2.02	1.05
3984.00	24.340	46.270	3953.43	94.50	153.57	161.38	1694872.82	413595.64	39°37'49.8299"N	80°35'0.0670"W	222.77	46.421	1.74	0.88	3.65
4027.00	25.300	48.460	3992.46	101.88	165.79	174.66	1694886.10	413607.86	39°37'49.9522"N	80°34'59.8992"W	240.81	46.493	3.09	2.23	5.09
4114.00	27.030	53.780	4070.55	115.18	189.80	204.53	1694915.97	413631.87	39°37'50.1931"N	80°34'59.5212"W	279.03	47.139	3.35	1.99	6.11
4200.00	27.840	58.470	4146.89	125.67	211.85	237.41	1694948.85	413653.92	39°37'50.4150"N	80°34'59.1043"W	318.19	48.257	2.68	0.94	5.45



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Page 4 of 12



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4287.00	27.390	63.420	4223.99	133.08	231.43	272.63	1694984.07	413673.50	39°37'50.6126"N	80°34'58.6572"W	357.62	49.673	2.69	-0.52	5.69
4373.00	25.960	68.850	4300.84	136.75	247.08	307.89	1695019.32	413689.14	39°37'50.7715"N	80°34'58.2091"W	394.77	51.253	3.28	-1.66	6.31
4460.00	27.460	69.770	4378.56	138.25	260.89	344.47	1695055.90	413702.95	39°37'50.9123"N	80°34'57.7437"W	432.11	52.861	1.79	1.72	1.06
4546.00	30.900	68.900	4453.63	139.86	275.70	383.69	1695095.11	413717.76	39°37'51.0633"N	80°34'57.2448"W	472.47	54.301	4.03	4.00	-1.01
4632.00	32.180	68.200	4526.93	142.20	292.15	425.55	1695136.98	413734.21	39°37'51.2309"N	80°34'56.7122"W	516.19	55.530	1.55	1.49	-0.81
4719.00	32.670	68.700	4600.36	144.69	309.29	468.94	1695180.36	413751.35	39°37'51.4054"N	80°34'56.1604"W	561.75	56.594	0.64	0.56	0.57
4806.00	33.070	69.530	4673.44	146.67	326.12	513.06	1695224.48	413768.18	39°37'51.5770"N	80°34'55.5992"W	607.93	57.559	0.69	0.46	0.95
4892.00	34.210	69.500	4745.03	148.34	342.79	557.69	1695269.10	413784.85	39°37'51.7471"N	80°34'55.0314"W	654.61	58.423	1.33	1.33	-0.03
4979.00	34.020	68.440	4817.06	150.51	360.30	603.23	1695314.64	413802.36	39°37'51.9255"N	80°34'54.4521"W	702.64	59.151	0.72	-0.22	-1.22
5058.00	33.830	69.700	4882.61	152.40	376.05	644.41	1695355.82	413818.10	39°37'52.0861"N	80°34'53.9282"W	746.11	59.734	0.92	-0.24	1.59
5144.00	34.580	70.700	4953.74	153.51	392.42	689.90	1695401.30	413834.48	39°37'52.2533"N	80°34'53.3494"W	793.69	60.368	1.09	0.87	1.16
5231.00	36.030	72.390	5024.74	153.47	408.32	737.59	1695448.99	413850.38	39°37'52.4161"N	80°34'52.7424"W	843.07	61.031	2.01	1.67	1.94
5317.00	35.440	71.870	5094.55	152.93	423.73	785.39	1695496.79	413865.79	39°37'52.5741"N	80°34'52.1338"W	892.41	61.652	0.77	-0.69	-0.60
5403.00	35.800	70.070	5164.46	153.42	440.07	832.74	1695544.13	413882.12	39°37'52.7411"N	80°34'51.5313"W	941.86	62.145	1.29	0.42	-2.09
5490.00	36.540	69.590	5234.69	154.93	457.77	880.93	1695592.33	413899.82	39°37'52.9218"N	80°34'50.9181"W	992.77	62.542	0.91	0.85	-0.55
5576.00	36.590	68.000	5303.77	157.37	476.30	928.69	1695640.09	413918.35	39°37'53.1106"N	80°34'50.3105"W	1043.71	62.848	1.10	0.06	-1.85
5663.00	36.840	66.790	5373.51	161.11	496.30	976.71	1695688.10	413938.34	39°37'53.3139"N	80°34'49.7000"W	1095.56	63.063	0.88	0.29	-1.39
5750.00	36.010	67.380	5443.51	165.11	516.41	1024.28	1695735.67	413958.46	39°37'53.5184"N	80°34'49.0950"W	1147.10	63.244	1.04	-0.95	0.68
5836.00	33.770	69.380	5514.05	167.83	534.55	1070.00	1695781.38	413976.60	39°37'53.7031"N	80°34'48.5136"W	1196.10	63.454	2.92	-2.60	2.33
5923.00	34.070	71.020	5586.25	168.94	551.00	1115.68	1695827.06	413993.04	39°37'53.8710"N	80°34'47.9324"W	1244.32	63.717	1.11	0.34	1.89
6009.00	35.250	70.840	5656.98	169.45	566.98	1161.90	1695873.28	414009.02	39°37'54.0344"N	80°34'47.3441"W	1292.85	63.989	1.38	1.37	-0.21
6099.00	35.980	71.080	5730.15	169.96	584.07	1211.44	1695922.82	414026.12	39°37'54.2093"N	80°34'46.7136"W	1344.89	64.260	0.83	0.81	0.27
6182.00	36.480	71.260	5797.10	170.26	599.91	1257.87	1695969.24	414041.95	39°37'54.3712"N	80°34'46.1226"W	1393.60	64.503	0.62	0.60	0.22
6268.00	35.300	70.470	5866.77	170.83	616.43	1305.50	1696016.87	414058.47	39°37'54.5402"N	80°34'45.5165"W	1443.72	64.724	1.47	-1.37	-0.92
6355.00	34.590	70.240	5938.08	171.84	633.18	1352.43	1696063.80	414075.22	39°37'54.7113"N	80°34'44.9192"W	1493.32	64.912	0.83	-0.82	-0.26
6441.00	35.230	70.950	6008.61	172.64	649.53	1398.85	1696110.22	414091.57	39°37'54.8784"N	80°34'44.3285"W	1542.30	65.093	0.88	0.74	0.83
6528.00	36.190	71.120	6079.25	173.06	666.03	1446.88	1696158.24	414108.07	39°37'55.0472"N	80°34'43.7173"W	1592.81	65.282	1.11	1.10	0.20
6614.00	36.150	71.130	6148.68	173.41	682.45	1494.90	1696206.26	414124.49	39°37'55.2151"N	80°34'43.1060"W	1643.31	65.462	0.05	-0.05	0.01
6700.00	34.540	70.850	6218.82	173.87	698.65	1541.94	1696253.30	414140.69	39°37'55.3808"N	80°34'42.5074"W	1692.84	65.625	1.88	-1.87	-0.33
6787.00	33.340	69.140	6291.00	175.15	715.26	1587.58	1696298.94	414157.29	39°37'55.5503"N	80°34'41.9266"W	1741.27	65.747	1.76	-1.38	-1.97



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# Actual Wellpath Report

Cash 7H AWB Proj: 21071'

Page 5 of 12



REFERENCE WELLPATH IDENTIFICATION				
Operator	EQT PRODUCTION COMPANY		Well	Cash 7H
Field	Wetzel		API	47-103-03522-0000
Facility	Cash Pad		Wellbore	Cash 7H AWB
Slot	Slot 07			

WELLPATH DATA (243 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]
6873.00	32.980	68.450	6362.99	177.39	732.27	1631.44	1696342.79	414174.31	39°37'55.7237"N	80°34'41.3688"W	1788.24	65.827	0.61	-0.42	-0.80
6960.00	32.720	67.560	6436.08	180.28	749.94	1675.20	1696386.54	414191.98	39°37'55.9035"N	80°34'40.8123"W	1835.40	65.883	0.63	-0.30	-1.02
7046.00	30.920	70.370	6509.16	182.33	766.24	1717.50	1696428.84	414208.27	39°37'56.0696"N	80°34'40.2742"W	1880.67	65.956	2.71	-2.09	3.27
7133.00	32.240	74.400	6583.28	181.61	779.99	1760.91	1696472.25	414222.03	39°37'56.2106"N	80°34'39.7215"W	1925.92	66.109	2.86	1.52	4.63
7219.00	33.790	76.470	6655.40	178.40	791.76	1806.26	1696517.59	414233.79	39°37'56.3323"N	80°34'39.1437"W	1972.17	66.330	2.23	1.80	2.41
7306.00	36.920	76.370	6726.34	174.10	803.58	1855.18	1696566.52	414245.61	39°37'56.4549"N	80°34'38.5202"W	2021.74	66.580	3.60	3.60	-0.11
7392.00	39.730	74.020	6793.81	170.71	817.24	1906.72	1696618.05	414259.27	39°37'56.5960"N	80°34'37.8637"W	2074.48	66.800	3.68	3.27	-2.73
7478.00	40.390	70.900	6859.64	169.82	833.92	1959.48	1696670.81	414275.95	39°37'56.7671"N	80°34'37.1920"W	2129.55	66.946	2.46	0.77	-3.63
7575.00	38.880	69.170	6934.34	171.40	855.03	2017.63	1696728.96	414297.06	39°37'56.9826"N	80°34'36.4520"W	2191.33	67.034	1.93	-1.56	-1.78
7636.00	38.380	68.040	6981.99	173.34	868.92	2053.09	1696764.42	414310.95	39°37'57.1241"N	80°34'36.0009"W	2229.40	67.061	1.42	-0.82	-1.85
7731.00	38.370	56.600	7056.56	182.73	896.22	2105.12	1696816.45	414338.24	39°37'57.4000"N	80°34'35.3401"W	2287.96	66.939	7.47	-0.01	-12.04
7826.00	38.400	44.360	7131.14	203.82	933.60	2150.44	1696861.75	414375.62	39°37'57.7748"N	80°34'34.7668"W	2344.35	66.532	7.99	0.03	-12.88
7921.00	40.220	31.530	7204.76	237.06	980.92	2187.17	1696898.48	414422.94	39°37'58.2468"N	80°34'34.3046"W	2397.06	65.844	8.76	1.92	-13.51
8016.00	42.400	19.120	7276.24	282.23	1037.43	2213.75	1696925.06	414479.44	39°37'58.8083"N	80°34'33.9735"W	2444.78	64.891	8.91	2.29	-13.06
8111.00	44.630	9.660	7345.20	337.10	1100.66	2229.86	1696941.17	414542.67	39°37'59.4352"N	80°34'33.7773"W	2486.71	63.729	7.24	2.35	-9.96
8206.00	50.150	0.810	7409.56	401.06	1170.15	2235.98	1696947.30	414612.16	39°38'0.1226"N	80°34'33.7097"W	2523.66	62.376	8.98	5.81	-9.32
8300.00	56.780	353.120	7465.54	473.79	1245.42	2231.77	1696943.09	414687.43	39°38'0.8660"N	80°34'33.7750"W	2555.76	60.837	9.63	7.05	-8.18
8394.00	62.480	345.360	7513.10	554.05	1324.94	2216.50	1696927.81	414766.94	39°38'1.6500"N	80°34'33.9824"W	2582.31	59.131	9.35	6.06	-8.26
8490.00	69.300	338.200	7552.34	641.55	1408.01	2189.00	1696900.32	414850.00	39°38'2.4677"N	80°34'34.3465"W	2602.73	57.250	9.83	7.10	-7.46
8584.00	75.530	333.160	7580.74	730.60	1489.56	2152.07	1696863.39	414931.55	39°38'3.2693"N	80°34'34.8310"W	2617.29	55.311	8.37	6.63	-5.36
8679.00	82.180	329.700	7599.10	822.30	1571.35	2107.50	1696818.82	415013.33	39°38'4.0722"N	80°34'35.4132"W	2628.82	53.292	7.86	7.00	-3.64
8774.00	88.980	329.580	7606.41	914.93	1653.03	2059.65	1696770.98	415095.01	39°38'4.8737"N	80°34'36.0372"W	2640.96	51.250	7.16	7.16	-0.13
8869.00	88.920	329.360	7608.16	1007.82	1734.84	2011.40	1696722.73	415176.82	39°38'5.6766"N	80°34'36.6664"W	2656.21	49.222	0.24	-0.06	-0.23
8964.00	89.630	329.120	7609.36	1100.64	1816.47	1962.82	1696674.15	415258.44	39°38'6.4775"N	80°34'37.2998"W	2674.37	47.218	0.79	0.75	-0.25
9059.00	90.860	329.860	7608.95	1193.55	1898.32	1914.59	1696625.92	415340.28	39°38'7.2806"N	80°34'37.9287"W	2696.16	45.245	1.51	1.29	0.78
9154.00	91.040	329.310	7607.38	1286.49	1980.23	1866.50	1696577.84	415422.19	39°38'8.0844"N	80°34'38.5559"W	2721.24	43.307	0.61	0.19	-0.58
9250.00	90.000	330.750	7606.50	1380.55	2063.39	1818.55	1696529.89	415505.34	39°38'8.9005"N	80°34'39.1815"W	2750.40	41.391	1.85	-1.08	1.50
9345.00	90.240	329.550	7606.31	1473.69	2145.78	1771.27	1696482.61	415587.73	39°38'9.7092"N	80°34'39.7985"W	2782.40	39.538	1.29	0.25	-1.26
9440.00	89.070	330.170	7606.88	1566.72	2227.93	1723.57	1696434.91	415669.88	39°38'10.5154"N	80°34'40.4207"W	2816.80	37.726	1.39	-1.23	0.65
9535.00	89.050	330.010	7608.44	1659.83	2310.27	1676.20	1696387.55	415752.21	39°38'11.3234"N	80°34'41.0387"W	2854.30	35.963	0.17	-0.02	-0.17



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# Actual Wellpath Report

Cash 7H AWB Proj: 21071'

Page 6 of 12



## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Cash 7H
Field	Wetzel	API	47-103-03522-0000
Facility	Cash Pad	Wellbore	Cash 7H AWB
Slot	Slot 07		

## WELLPATH DATA (243 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]
9630.00	87.940	330.180	7610.93	1752.91	2392.59	1628.86	1696340.21	415834.53	39°38'12.1313"N	80°34'41.6564"W	2894.42	34.247	1.18	-1.17	0.18
9726.00	89.290	330.590	7613.25	1847.07	2476.02	1581.43	1696292.79	415917.95	39°38'12.9502"N	80°34'42.2754"W	2937.96	32.566	1.47	1.41	0.43
9820.00	89.440	330.580	7614.29	1939.36	2557.90	1535.27	1696246.63	415999.82	39°38'13.7539"N	80°34'42.8779"W	2983.27	30.972	0.16	0.16	-0.01
9915.00	89.510	330.830	7615.16	2032.67	2640.75	1488.79	1696200.15	416082.67	39°38'14.5671"N	80°34'43.4847"W	3031.51	29.413	0.27	0.07	0.26
10010.00	89.780	330.140	7615.75	2125.91	2723.42	1441.99	1696153.35	416165.33	39°38'15.3785"N	80°34'44.0956"W	3081.61	27.900	0.78	0.28	-0.73
10105.00	89.810	330.360	7616.09	2219.08	2805.90	1394.85	1696106.21	416247.80	39°38'16.1880"N	80°34'44.7108"W	3133.47	26.433	0.23	0.03	0.23
10200.00	89.870	330.690	7616.36	2312.33	2888.60	1348.10	1696059.47	416330.50	39°38'16.9998"N	80°34'45.3209"W	3187.69	25.018	0.35	0.06	0.35
10294.00	89.940	330.930	7616.51	2404.70	2970.66	1302.26	1696013.63	416412.56	39°38'17.8053"N	80°34'45.9194"W	3243.56	23.671	0.27	0.07	0.26
10390.00	89.900	330.240	7616.65	2498.95	3054.29	1255.11	1695966.48	416496.18	39°38'18.6261"N	80°34'46.5349"W	3302.11	22.339	0.72	-0.04	-0.72
10485.00	89.900	330.560	7616.81	2592.17	3136.89	1208.19	1695919.56	416578.78	39°38'19.4368"N	80°34'47.1473"W	3361.51	21.064	0.34	0.00	0.34
10580.00	89.530	330.230	7617.29	2685.38	3219.48	1161.25	1695872.63	416661.37	39°38'20.2475"N	80°34'47.7599"W	3422.51	19.834	0.52	-0.39	-0.35
10676.00	89.530	329.420	7618.07	2779.39	3302.47	1113.00	1695824.38	416744.35	39°38'21.0619"N	80°34'48.3893"W	3484.98	18.625	0.84	0.00	-0.84
10771.00	89.630	330.000	7618.77	2872.37	3384.50	1065.09	1695776.47	416826.37	39°38'21.8669"N	80°34'49.0144"W	3548.13	17.469	0.62	0.11	0.61
10866.00	90.000	330.020	7619.08	2965.46	3466.78	1017.60	1695728.99	416908.65	39°38'22.6743"N	80°34'49.6339"W	3613.04	16.359	0.39	0.39	0.02
10961.00	89.940	330.670	7619.13	3058.66	3549.34	970.60	1695681.99	416991.20	39°38'23.4846"N	80°34'50.2474"W	3679.65	15.294	0.69	-0.06	0.68
11057.00	90.090	330.520	7619.10	3152.92	3632.97	923.47	1695634.86	417074.83	39°38'24.3055"N	80°34'50.8627"W	3748.50	14.262	0.22	0.16	-0.16
11152.00	90.030	329.440	7619.00	3246.00	3715.22	875.94	1695587.33	417157.08	39°38'25.1127"N	80°34'51.4828"W	3817.09	13.266	1.14	-0.06	-1.14
11247.00	90.090	329.140	7618.90	3338.84	3796.90	827.42	1695538.82	417238.75	39°38'25.9141"N	80°34'52.1155"W	3886.01	12.294	0.32	0.06	-0.32
11343.00	90.030	327.690	7618.80	3432.34	3878.68	777.14	1695488.54	417320.52	39°38'26.7163"N	80°34'52.7707"W	3955.77	11.330	1.51	-0.06	-1.51
11438.00	89.780	328.080	7618.96	3524.66	3959.14	726.64	1695438.04	417400.98	39°38'27.5054"N	80°34'53.4286"W	4025.27	10.400	0.49	-0.26	0.41
11533.00	90.300	329.800	7618.89	3617.38	4040.52	677.63	1695389.04	417482.35	39°38'28.3038"N	80°34'54.0676"W	4096.95	9.520	1.89	0.55	1.81
11628.00	90.000	329.260	7618.64	3710.30	4122.40	629.45	1695340.87	417564.22	39°38'29.1072"N	80°34'54.6960"W	4170.18	8.682	0.65	-0.32	-0.57
11723.00	89.720	330.560	7618.88	3803.36	4204.59	581.83	1695293.24	417646.41	39°38'29.9139"N	80°34'55.3174"W	4244.66	7.878	1.40	-0.29	1.37
11818.00	89.870	330.450	7619.22	3896.61	4287.28	535.05	1695246.47	417729.10	39°38'30.7254"N	80°34'55.9280"W	4320.54	7.114	0.20	0.16	-0.12
11914.00	89.750	330.360	7619.53	3990.80	4370.75	487.64	1695199.06	417812.57	39°38'31.5447"N	80°34'56.5468"W	4397.87	6.366	0.16	-0.12	-0.09
12009.00	89.750	330.660	7619.95	4084.05	4453.45	440.88	1695152.30	417895.25	39°38'32.3563"N	80°34'57.1573"W	4475.22	5.654	0.32	0.00	0.32
12105.00	89.720	330.400	7620.39	4178.29	4537.02	393.65	1695105.07	417978.83	39°38'33.1767"N	80°34'57.7738"W	4554.07	4.959	0.27	-0.03	-0.27
12199.00	89.810	330.550	7620.78	4270.55	4618.82	347.33	1695058.75	418060.61	39°38'33.9795"N	80°34'58.3785"W	4631.86	4.300	0.19	0.10	0.16
12294.00	89.600	330.220	7621.27	4363.76	4701.40	300.38	1695011.81	418143.20	39°38'34.7900"N	80°34'58.9913"W	4710.99	3.656	0.41	-0.22	-0.35
12389.00	90.490	331.050	7621.19	4457.05	4784.20	253.80	1694965.23	418225.98	39°38'35.6027"N	80°34'59.5995"W	4790.92	3.037	1.28	0.94	0.87



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# Actual Wellpath Report

Cash 7H AWB Proj: 21071'  
Page 7 of 12



## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Cash 7H
Field	Wetzel	API	47-103-03522-0000
Facility	Cash Pad	Wellbore	Cash 7H AWB
Slot	Slot 07		

## WELLPATH DATA (243 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]
12485.00	89.780	328.970	7620.97	4551.11	4867.34	205.81	1694917.25	418309.12	39°38'36.4186"N	80°35'0.2257"W	4871.69	2.421	2.29	-0.74	-2.17
12580.00	89.750	329.300	7621.36	4643.90	4948.88	157.08	1694868.52	418390.66	39°38'37.2186"N	80°35'0.8612"W	4951.38	1.818	0.35	-0.03	0.35
12675.00	89.470	330.370	7622.00	4736.93	5031.02	109.34	1694820.79	418472.79	39°38'38.0246"N	80°35'1.4840"W	5032.20	1.245	1.16	-0.29	1.13
12769.00	89.600	330.330	7622.77	4829.15	5112.71	62.84	1694774.29	418554.47	39°38'38.8264"N	80°35'2.0910"W	5113.09	0.704	0.14	0.14	-0.04
12864.00	89.500	330.580	7623.51	4922.38	5195.35	16.00	1694727.45	418637.11	39°38'39.6375"N	80°35'2.7025"W	5195.37	0.176	0.28	-0.11	0.26
12959.00	89.410	330.300	7624.42	5015.60	5277.98	-30.87	1694680.59	418719.74	39°38'40.4485"N	80°35'3.3143"W	5278.07	359.665	0.31	-0.09	-0.29
13054.00	89.410	330.450	7625.39	5108.81	5360.56	-77.82	1694633.63	418802.31	39°38'41.2590"N	80°35'3.9273"W	5361.12	359.168	0.16	0.00	0.16
13149.00	89.630	330.620	7626.19	5202.06	5443.27	-124.55	1694586.91	418885.01	39°38'42.0707"N	80°35'4.5373"W	5444.69	358.689	0.29	0.23	0.18
13244.00	90.060	330.590	7626.45	5295.34	5526.04	-171.18	1694540.28	418967.78	39°38'42.8831"N	80°35'5.1461"W	5528.69	358.226	0.45	0.45	-0.03
13340.00	89.870	330.660	7626.51	5389.61	5609.69	-218.27	1694493.19	419051.43	39°38'43.7042"N	80°35'5.7610"W	5613.94	357.772	0.21	-0.20	0.07
13435.00	89.750	330.470	7626.82	5482.88	5692.43	-264.96	1694446.51	419134.16	39°38'44.5163"N	80°35'6.3705"W	5698.59	357.335	0.24	-0.13	-0.20
13530.00	90.370	330.630	7626.72	5576.14	5775.15	-311.66	1694399.80	419216.88	39°38'45.3282"N	80°35'6.9803"W	5783.56	356.911	0.67	0.65	0.17
13625.00	90.000	330.550	7626.41	5669.42	5857.91	-358.31	1694353.16	419299.63	39°38'46.1405"N	80°35'7.5894"W	5868.86	356.500	0.40	-0.39	-0.08
13720.00	90.120	330.700	7626.32	5762.71	5940.70	-404.91	1694306.56	419382.41	39°38'46.9531"N	80°35'8.1979"W	5954.48	356.101	0.20	0.13	0.16
13815.00	90.060	329.760	7626.17	5855.87	6023.16	-452.08	1694259.39	419464.87	39°38'47.7623"N	80°35'8.8135"W	6040.10	355.708	0.99	-0.06	-0.99
13910.00	90.000	326.960	7626.12	5948.36	6104.03	-501.91	1694209.57	419545.73	39°38'48.5556"N	80°35'9.4630"W	6124.63	355.299	2.95	2.01	-0.26
14005.00	89.750	328.850	7626.32	6040.69	6184.51	-552.39	1694159.10	419626.21	39°38'49.3449"N	80°35'10.1206"W	6209.13	354.896	2.01	-0.26	1.99
14100.00	89.600	329.570	7626.86	6133.50	6266.11	-601.02	1694110.47	419707.81	39°38'50.1455"N	80°35'10.7549"W	6294.87	354.521	0.77	-0.16	0.76
14195.00	89.690	330.460	7627.45	6226.59	6348.40	-648.49	1694063.00	419790.09	39°38'50.9530"N	80°35'11.3745"W	6381.43	354.167	0.94	0.09	0.94
14290.00	90.000	330.810	7627.71	6319.88	6431.19	-695.08	1694016.41	419872.87	39°38'51.7656"N	80°35'11.9828"W	6468.64	353.831	0.49	0.33	0.37
14385.00	89.720	330.630	7627.94	6413.20	6514.05	-741.54	1693969.96	419955.73	39°38'52.5790"N	80°35'12.5895"W	6556.12	353.506	0.35	-0.29	-0.19
14480.00	89.910	330.900	7628.25	6506.53	6596.95	-787.94	1693923.56	420038.63	39°38'53.3926"N	80°35'13.1954"W	6643.84	353.189	0.35	0.20	0.28
14575.00	90.000	330.790	7628.32	6599.88	6679.91	-834.22	1693877.28	420121.58	39°38'54.2070"N	80°35'13.7999"W	6731.80	352.881	0.15	0.09	-0.12
14670.00	89.970	330.530	7628.35	6693.18	6762.73	-880.77	1693830.74	420204.39	39°38'55.0198"N	80°35'14.4077"W	6819.84	352.580	0.28	-0.03	-0.27
14765.00	89.970	330.750	7628.40	6786.48	6845.53	-927.35	1693784.16	420287.19	39°38'55.8325"N	80°35'15.0159"W	6908.05	352.285	0.23	0.00	0.23
14860.00	90.030	329.710	7628.40	6879.64	6927.99	-974.51	1693737.00	420369.64	39°38'56.6418"N	80°35'15.6317"W	6996.19	351.993	1.10	0.06	-1.09
14955.00	90.000	329.900	7628.37	6972.66	7010.10	-1022.29	1693689.22	420451.75	39°38'57.4475"N	80°35'16.2552"W	7084.25	351.703	0.20	-0.03	0.20
15050.00	90.030	329.640	7628.35	7065.67	7092.18	-1070.12	1693641.39	420533.82	39°38'58.2529"N	80°35'16.8793"W	7172.46	351.419	0.28	0.03	-0.27
15145.00	89.810	329.350	7628.48	7158.58	7174.03	-1118.35	1693593.17	420615.67	39°38'59.0560"N	80°35'17.5084"W	7260.67	351.140	0.38	-0.23	-0.31
15240.00	89.970	329.870	7628.66	7251.54	7255.98	-1166.41	1693545.12	420697.61	39°38'59.8601"N	80°35'18.1354"W	7349.13	350.868	0.57	0.17	0.55



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# Actual Wellpath Report

Cash 7H AWB Proj: 21071'  
Page 8 of 12



## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Cash 7H
Field	Wetzel	API	47-103-03522-0000
Facility	Cash Pad	Wellbore	Cash 7H AWB
Slot	Slot 07		

## WELLPATH DATA (243 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]
15335.00	89.750	329.270	7628.89	7344.48	7337.89	-1214.52	1693497.00	420779.52	39°39'0.6638"N	80°35'18.7632"W	7437.72	350.602	0.67	-0.23	-0.63
15430.00	89.570	329.160	7629.46	7437.29	7419.50	-1263.14	1693448.38	420861.13	39°39'1.4645"N	80°35'19.3974"W	7526.26	350.338	0.22	-0.19	-0.12
15525.00	89.720	329.750	7630.05	7530.19	7501.32	-1311.42	1693400.11	420942.94	39°39'2.2673"N	80°35'20.0273"W	7615.09	350.083	0.64	0.16	0.62
15621.00	89.720	329.570	7630.51	7624.14	7584.17	-1359.91	1693351.62	421025.78	39°39'3.0802"N	80°35'20.6600"W	7705.12	349.834	0.19	0.00	-0.19
15716.00	89.720	329.540	7630.98	7717.08	7666.07	-1408.05	1693303.48	421107.68	39°39'3.8838"N	80°35'21.2880"W	7794.30	349.592	0.03	0.00	-0.03
15811.00	89.410	329.390	7631.70	7809.98	7747.89	-1456.32	1693255.22	421189.49	39°39'4.6867"N	80°35'21.9177"W	7883.57	349.355	0.36	-0.33	-0.16
15906.00	89.480	328.750	7632.62	7902.74	7829.38	-1505.14	1693206.40	421270.98	39°39'5.4861"N	80°35'22.5545"W	7972.74	349.118	0.68	0.07	-0.67
16001.00	89.600	329.390	7633.38	7995.50	7910.86	-1553.97	1693157.58	421352.46	39°39'6.2855"N	80°35'23.1914"W	8062.05	348.887	0.69	0.13	0.67
16096.00	89.750	329.610	7633.92	8088.42	7992.72	-1602.19	1693109.36	421434.31	39°39'7.0886"N	80°35'23.8204"W	8151.72	348.665	0.28	0.16	0.23
16190.00	89.690	329.460	7634.38	8180.37	8073.74	-1649.84	1693061.71	421515.32	39°39'7.8836"N	80°35'24.4422"W	8240.58	348.451	0.17	-0.06	-0.16
16286.00	89.970	329.750	7634.67	8274.30	8156.54	-1698.42	1693013.14	421598.12	39°39'8.6961"N	80°35'25.0760"W	8331.49	348.238	0.42	0.29	0.30
16381.00	89.970	329.500	7634.72	8367.26	8238.50	-1746.45	1692965.10	421680.08	39°39'9.5003"N	80°35'25.7028"W	8421.58	348.031	0.26	0.00	-0.26
16476.00	89.970	329.560	7634.77	8460.19	8320.38	-1794.63	1692916.93	421761.95	39°39'10.3037"N	80°35'26.3314"W	8511.72	347.828	0.06	0.00	0.06
16570.00	89.940	329.660	7634.84	8552.16	8401.47	-1842.18	1692869.38	421843.03	39°39'11.0993"N	80°35'26.9519"W	8601.06	347.633	0.11	-0.03	0.11
16665.00	89.940	329.420	7634.94	8645.09	8483.36	-1890.34	1692821.23	421924.92	39°39'11.9027"N	80°35'27.5803"W	8691.42	347.438	0.25	0.00	-0.25
16761.00	90.000	329.570	7634.99	8738.99	8566.07	-1939.07	1692772.50	422007.62	39°39'12.7143"N	80°35'28.2161"W	8782.80	347.245	0.17	0.06	0.16
16855.00	89.970	329.570	7635.01	8830.95	8647.12	-1986.68	1692724.89	422088.67	39°39'13.5096"N	80°35'28.8373"W	8872.40	347.061	0.03	-0.03	0.00
16950.00	89.970	329.740	7635.06	8923.92	8729.10	-2034.67	1692676.90	422170.65	39°39'14.3140"N	80°35'29.4636"W	8963.10	346.879	0.18	0.00	0.18
17045.00	89.910	329.620	7635.16	9016.90	8811.11	-2082.63	1692628.95	422252.65	39°39'15.1186"N	80°35'30.0894"W	9053.89	346.701	0.14	-0.06	-0.13
17140.00	89.660	329.750	7635.52	9109.88	8893.12	-2130.58	1692581.00	422334.65	39°39'15.9233"N	80°35'30.7152"W	9144.78	346.527	0.30	-0.26	0.14
17235.00	89.690	329.520	7636.06	9202.84	8975.09	-2178.61	1692532.98	422416.62	39°39'16.7276"N	80°35'31.3419"W	9235.72	346.356	0.24	0.03	-0.24
17330.00	89.630	329.790	7636.62	9295.81	9057.07	-2226.60	1692484.99	422498.59	39°39'17.5320"N	80°35'31.9682"W	9326.75	346.188	0.29	-0.06	0.28
17425.00	89.660	329.740	7637.21	9388.81	9139.14	-2274.43	1692437.15	422580.66	39°39'18.3374"N	80°35'32.5925"W	9417.91	346.025	0.06	0.03	-0.05
17520.00	89.720	329.720	7637.72	9481.81	9221.19	-2322.32	1692389.27	422662.71	39°39'19.1424"N	80°35'33.2174"W	9509.13	345.864	0.07	0.06	-0.02
17615.00	89.450	329.330	7638.41	9574.73	9303.06	-2370.50	1692341.09	422744.57	39°39'19.9457"N	80°35'33.8461"W	9600.33	345.705	0.50	-0.28	-0.41
17710.00	89.450	329.330	7639.32	9667.59	9384.77	-2418.96	1692292.64	422826.28	39°39'20.7474"N	80°35'34.4783"W	9691.51	345.546	0.00	0.00	0.00
17805.00	89.510	329.790	7640.19	9760.52	9466.67	-2467.09	1692244.52	422908.17	39°39'21.5510"N	80°35'35.1063"W	9782.86	345.393	0.49	0.06	0.48
17900.00	89.510	329.750	7641.00	9853.53	9548.75	-2514.91	1692196.69	422990.25	39°39'22.3563"N	80°35'35.7305"W	9874.38	345.245	0.04	0.00	-0.04
17995.00	89.510	329.770	7641.81	9946.53	9630.82	-2562.76	1692148.85	423072.31	39°39'23.1616"N	80°35'36.3549"W	9965.96	345.099	0.02	0.00	0.02
18090.00	89.510	329.800	7642.62	10039.54	9712.91	-2610.56	1692101.05	423154.40	39°39'23.9671"N	80°35'36.9789"W	10057.62	344.956	0.03	0.00	0.03





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# Actual Wellpath Report

Cash 7H AWB Proj: 21071'

Page 9 of 12



WV Department of  
Environmental Protection

## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Cash 7H
Field	Wetzel	API	47-103-03522-0000
Facility	Cash Pad	Wellbore	Cash 7H AWB
Slot	Slot 07		

## WELLPATH DATA (243 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]
18185.00	89.510	329.840	7643.44	10132.56	9795.03	-2658.32	1692053.29	423236.51	39°39'24.7729"N	80°35'37.6022"W	10149.35	344.816	0.04	0.00	0.04
18280.00	89.260	328.960	7644.46	10225.44	9876.80	-2706.67	1692004.94	423318.27	39°39'25.5751"N	80°35'38.2332"W	10240.96	344.675	0.96	-0.26	-0.93
18376.00	89.880	329.860	7645.18	10319.30	9959.43	-2755.53	1691956.09	423400.90	39°39'26.3859"N	80°35'38.8706"W	10333.60	344.535	1.14	0.65	0.94
18471.00	89.600	328.950	7645.61	10412.18	10041.21	-2803.88	1691907.74	423482.67	39°39'27.1882"N	80°35'39.5015"W	10425.33	344.398	1.00	-0.29	-0.96
18566.00	89.820	330.250	7646.09	10505.13	10123.14	-2851.95	1691859.68	423564.60	39°39'27.9921"N	80°35'40.1288"W	10517.21	344.266	1.39	0.23	1.37
18661.00	89.660	329.560	7646.52	10598.18	10205.33	-2899.58	1691812.04	423646.79	39°39'28.7986"N	80°35'40.7506"W	10609.26	344.139	0.75	-0.17	-0.73
18756.00	89.750	329.800	7647.01	10691.16	10287.34	-2947.54	1691764.09	423728.79	39°39'29.6032"N	80°35'41.3765"W	10701.28	344.012	0.27	0.09	0.25
18851.00	89.820	329.760	7647.37	10784.17	10369.43	-2995.36	1691716.28	423810.87	39°39'30.4087"N	80°35'42.0006"W	10793.39	343.888	0.08	0.07	-0.04
18945.00	89.940	329.870	7647.56	10876.22	10450.68	-3042.62	1691669.02	423892.12	39°39'31.2060"N	80°35'42.6176"W	10884.59	343.768	0.17	0.13	0.12
19040.00	89.910	328.140	7647.69	10968.95	10532.11	-3091.54	1691620.10	423973.55	39°39'32.0049"N	80°35'43.2557"W	10976.48	343.641	1.82	-0.03	-1.82
19135.00	90.020	329.230	7647.75	11061.58	10613.27	-3140.91	1691570.73	424054.70	39°39'32.8009"N	80°35'43.8996"W	11068.28	343.514	1.15	0.12	1.15
19230.00	89.840	329.250	7647.86	11154.41	10694.91	-3189.50	1691522.14	424136.33	39°39'33.6018"N	80°35'44.5335"W	11160.38	343.394	0.19	-0.19	0.02
19325.00	90.430	329.660	7647.64	11247.31	10776.72	-3237.78	1691473.87	424218.14	39°39'34.4046"N	80°35'45.1635"W	11252.60	343.278	0.76	0.62	0.43
19420.00	90.240	326.400	7647.08	11339.67	10857.30	-3288.07	1691423.58	424298.72	39°39'35.1948"N	80°35'45.8191"W	11344.27	343.151	3.44	-0.20	-3.43
19516.00	90.460	330.300	7646.50	11433.13	10939.01	-3338.44	1691373.22	424380.42	39°39'35.9962"N	80°35'46.4757"W	11437.09	343.029	4.07	0.23	4.06
19610.00	90.370	330.570	7645.81	11525.37	11020.77	-3384.82	1691326.84	424462.17	39°39'36.7985"N	80°35'47.0815"W	11528.84	342.927	0.30	-0.10	0.29
19705.00	90.430	330.760	7645.15	11618.67	11103.58	-3431.36	1691280.30	424544.98	39°39'37.6113"N	80°35'47.6894"W	11621.69	342.827	0.21	0.06	0.20
19799.00	90.310	330.720	7644.54	11711.01	11185.59	-3477.30	1691234.36	424626.98	39°39'38.4162"N	80°35'48.2896"W	11713.62	342.731	0.13	-0.13	-0.04
19894.00	89.970	330.840	7644.31	11804.34	11268.50	-3523.68	1691187.99	424709.89	39°39'39.2299"N	80°35'48.8955"W	11806.58	342.635	0.38	-0.36	0.13
19990.00	89.790	330.850	7644.51	11898.68	11352.33	-3570.44	1691141.22	424793.72	39°39'40.0528"N	80°35'49.5065"W	11900.57	342.541	0.19	-0.19	0.01
20085.00	90.030	330.540	7644.66	11991.99	11435.18	-3616.94	1691094.73	424876.56	39°39'40.8659"N	80°35'50.1140"W	11993.56	342.448	0.41	0.25	-0.33
20179.00	90.220	331.040	7644.46	12084.35	11517.22	-3662.82	1691048.86	424958.60	39°39'41.6711"N	80°35'50.7133"W	12085.64	342.358	0.57	0.20	0.53
20275.00	90.090	331.100	7644.20	12178.75	11601.24	-3709.25	1691002.42	425042.61	39°39'42.4959"N	80°35'51.3201"W	12179.80	342.269	0.15	-0.14	0.06
20370.00	89.510	330.550	7644.53	12272.10	11684.19	-3755.56	1690956.12	425125.55	39°39'43.3100"N	80°35'51.9252"W	12272.92	342.181	0.84	-0.61	-0.58
20465.00	89.290	331.230	7645.52	12365.47	11767.19	-3801.78	1690909.90	425208.54	39°39'44.1246"N	80°35'52.5290"W	12366.09	342.095	0.75	-0.23	0.72
20560.00	88.920	330.640	7647.01	12458.84	11850.21	-3847.92	1690863.76	425291.57	39°39'44.9395"N	80°35'53.1320"W	12459.29	342.011	0.73	-0.39	-0.62
20655.00	89.420	330.710	7648.38	12552.13	11933.03	-3894.45	1690817.24	425374.38	39°39'45.7523"N	80°35'53.7398"W	12552.44	341.925	0.53	0.53	0.07
20749.00	89.450	330.580	7649.31	12644.44	12014.95	-3940.52	1690771.17	425456.30	39°39'46.5564"N	80°35'54.3417"W	12644.64	341.842	0.14	0.03	-0.14
20844.00	90.000	330.780	7649.77	12737.74	12097.78	-3987.04	1690724.65	425539.12	39°39'47.3693"N	80°35'54.9495"W	12737.85	341.759	0.62	0.58	0.21
20939.00	89.880	331.110	7649.87	12831.13	12180.83	-4033.18	1690678.52	425622.16	39°39'48.1844"N	80°35'55.5523"W	12831.18	341.680	0.37	-0.13	0.35



# Actual Wellpath Report

Cash 7H AWB Proj: 21071'

Page 10 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Cash 7H
Field	Wetzel	API	47-103-03522-0000
Facility	Cash Pad	Wellbore	Cash 7H AWB
Slot	Slot 07		

WELLPATH DATA (243 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]
21034.00	89.970	330.760	7649.99	12924.51	12263.86	-4079.33	1690632.37	425705.19	39°39'48.9994"N	80°35'56.1554"W	12924.52	341.601	0.38	0.09	-0.37
21046.00	90.030	330.940	7649.99	12936.30	12274.34	-4085.18	1690626.52	425715.67	39°39'49.1023"N	80°35'56.2318"W	12936.31	341.591	1.58	0.50	1.50
21071.00‡	90.030	330.940	7649.98	12960.88	12296.20	-4097.32	1690614.38	425737.52	39°39'49.3167"N	80°35'56.3904"W	12960.88	341.571	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Cash 7H AWB Ref Wellpath: Cash 7H AWB Proj: 21071'									
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	-0.05	-0.04
17.5in Open Hole	68.00	1345.00	1277.00	68.00	1344.99	-0.05	-0.04	-3.37	-0.08
13.375in Casing Intermediate	28.00	1345.00	1317.00	28.00	1344.99	0.00	0.00	-3.37	-0.08
12.25in Open Hole	1345.00	2812.00	1467.00	1344.99	2811.98	-3.37	-0.08	-2.73	2.98
9.625in Casing Intermediate	28.00	2812.00	2784.00	28.00	2811.98	0.00	0.00	-2.73	2.98
8.75in Open Hole	2812.00	7655.00	4843.00	2811.98	6996.89	-2.73	2.98	873.54	2063.93
8.5in Open Hole	7655.00	21071.00	13416.00	6996.89	7649.98	873.54	2063.93	12296.20	-4097.32
6in Casing Production	28.00	21071.00	21043.00	28.00	7649.98	0.00	0.00	12296.20	-4097.32

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# Actual Wellpath Report

Cash 7H AWB Proj: 21071'

Page 11 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Cash 7H
Field	Wetzel	API	47-103-03522-0000
Facility	Cash Pad	Wellbore	Cash 7H AWB
Slot	Slot 07		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Cash 7H LP Rev-1	7595.00	1637.11	2079.51	1696790.83	415079.09	39°38'4.7188"N	80°34'35.7810"W	point
Cash 7H BHL Rev-1	7810.08	12292.80	-4109.17	1690602.53	425734.13	39°39'49.2817"N	80°35'56.5415"W	point
Cash Hardline 1(8-24-2023)	9116.00	10886.63	-6530.52	1688181.33	424328.05	39°39'35.0916"N	80°36'27.2787"W	polygon
	2D Polygon: dimensions not calculated							
Cash Hardline 2(8-24-2023)	9116.00	11187.94	-6011.65	1688700.17	424629.34	39°39'38.1325"N	80°36'20.6923"W	polygon
	2D Polygon: dimensions not calculated							
Cash Hardline 3(8-24-2023)	9116.00	11690.18	-5146.90	1689564.86	425131.54	39°39'43.2007"N	80°36'9.7151"W	polygon
	2D Polygon: dimensions not calculated							
Cash Hardline 4(8-24-2023)	9116.00	12393.28	-3936.24	1690775.45	425834.60	39°39'50.2956"N	80°35'54.3461"W	polygon
	2D Polygon: dimensions not calculated							

WELLPATH COMPOSITION - Ref Wellbore: Cash 7H AWB				Ref Wellpath: Cash 7H AWB Proj: 21071'		Wellbore	Survey Date
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment				
28.00	2760.00	Gyrodata 2015 - CT+WIR+DPIPE	01 Gyrodata Cont Gyro <12-1/4">(115'-2760')		Cash 7H AWB	8/31/2023	
2760.00	7575.00	OWSG MWD rev2 + HRGM	02 SDI MWD <8-3/4">(2760')(2859'-7575')		Cash 7H AWB	8/31/2023	
7575.00	21071.00	OWSG MWD rev2 + IFR1 + Axial Corr + Sag Correction	03 BH Lucida+SQC IFR1+SAG+FDIR <8-1/2">(7575')(7636'- 21046')		Cash 7H AWB	9/21/2023	

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# Actual Wellpath Report

Cash 7H AWB Proj: 21071'  
Page 12 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Cash 7H
Field	Wetzel	API	47-103-03522-0000
Facility	Cash Pad	Wellbore	Cash 7H AWB
Slot	Slot 07		

## COMMENTS

### Wellpath general comments

API: 47-103-03522-0000

BH Job #: 111957746

Rig: Patterson 292

Duration: 9/23/2023-9/24/2023

01\_Gyrodata Cont Gyro <12-1/4">(115'-2760')

02\_SDI MWD <8-3/4">(2760')(2859'-7575')

03\_BH Lucida+SQC IFR1+SAG+FDIR <8-1/2">(7575')(7636'- 21046')

Landing Pt. @ 8774' MD

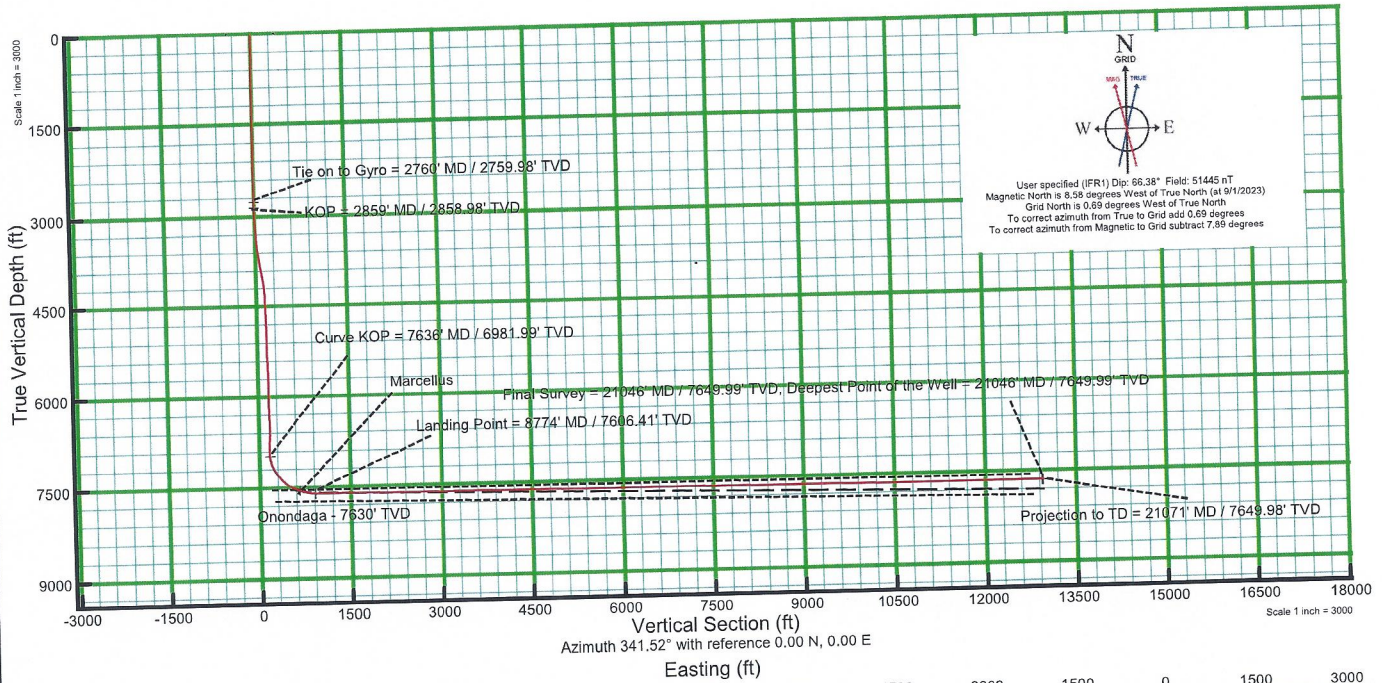
Final Survey @ 21046' MD

Projected MD at TD: 21071'

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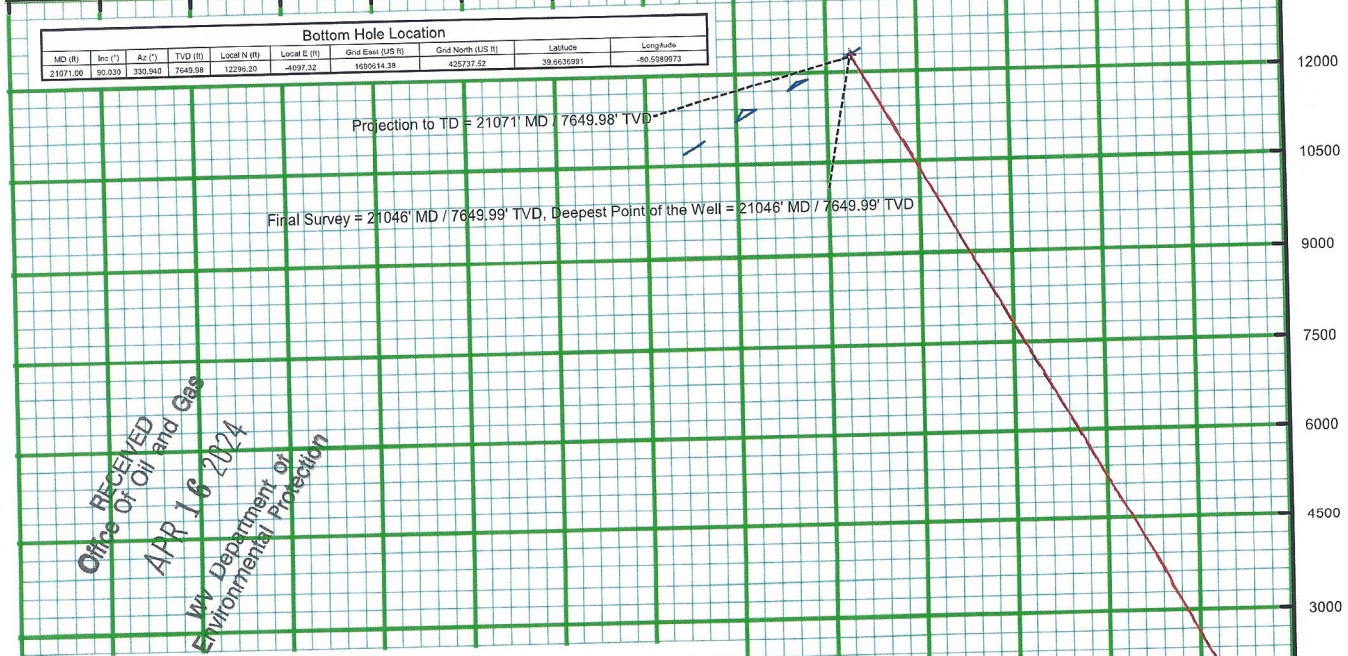


KB Elevation=1516 FT  
 Ground Elevation=1488 FT  
 All Survey Measurements were taken from KB Elevation



Scale 1 inch = 3000  
 Azimuth 341.52° with reference 0.00 N, 0.00 E  
 Easting (ft)

Bottom Hole Location									
MD (ft)	Incl (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
21071.00	90.030	336.940	7649.98	12296.20	-4997.32	1695014.38	435737.52	39.6636991	-80.5999873



Landing Point									
MD (ft)	Incl (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
8774	88.98	329.58	7606.41	1653.03	2059.65	1696770.99	415095.01	39.6346871	-80.576677

KOP									
MD (ft)	Incl (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
2859	0.5	85.24	2858.98	-2.73	3.35	1694714.8	413439.35	39.630074	-80.5829062

Surface Location			
Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
1694711.45	413442.08	39.6300814	-80.5839183

07/19/2024