



Actual Wellpath Report

Cash 3H AWB Proj: 20301'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Cash 3H
Field	Wetzel	API	47-103-03524-0000
Facility	Cash Pad	Wellbore	Cash 3H AWB
Slot	Slot 03		

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	9/21/2023 at 2:25:03 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	13.06	7.39	1694696.68	413415.97	39°37'48.0332"N	80°35'2.2905"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 03)	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	332.76°

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WELLPATH DATA (222 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	142.910	0.00	0.00	0.00	0.00	1694696.68	413415.97	39°37'48.0332"N	80°35'2.2905"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	142.910	28.00	0.00	0.00	0.00	1694696.68	413415.97	39°37'48.0332"N	80°35'2.2905"W	0.00	0.000	0.00	0.00	0.00
115.00	0.370	142.910	115.00	-0.28	-0.22	0.17	1694696.85	413415.75	39°37'48.0310"N	80°35'2.2883"W	0.28	142.910	0.43	0.43	0.00
215.00	0.230	159.720	215.00	-0.79	-0.67	0.43	1694697.11	413415.30	39°37'48.0267"N	80°35'2.2848"W	0.80	147.081	0.16	-0.14	16.81
315.00	0.260	152.020	315.00	-1.22	-1.06	0.61	1694697.29	413414.91	39°37'48.0228"N	80°35'2.2825"W	1.22	150.058	0.04	0.03	-7.70
415.00	0.280	149.330	415.00	-1.69	-1.47	0.84	1694697.52	413414.50	39°37'48.0188"N	80°35'2.2795"W	1.69	150.216	0.02	0.02	-2.69
515.00	0.260	151.230	514.99	-2.16	-1.88	1.07	1694697.75	413414.09	39°37'48.0148"N	80°35'2.2764"W	2.16	150.222	0.02	-0.02	1.90
615.00	0.210	127.060	614.99	-2.55	-2.19	1.33	1694698.01	413413.78	39°37'48.0118"N	80°35'2.2731"W	2.56	148.698	0.11	-0.05	-24.17
715.00	0.300	98.690	714.99	-2.87	-2.34	1.74	1694698.42	413413.63	39°37'48.0103"N	80°35'2.2679"W	2.91	143.413	0.15	0.09	-28.37
815.00	0.280	103.030	814.99	-3.18	-2.43	2.23	1694698.91	413413.54	39°37'48.0095"N	80°35'2.2616"W	3.30	137.457	0.03	-0.02	4.34
915.00	0.310	111.110	914.99	-3.54	-2.58	2.72	1694699.40	413413.39	39°37'48.0080"N	80°35'2.2553"W	3.75	133.513	0.05	0.03	8.08
1015.00	0.330	111.250	1014.99	-3.96	-2.79	3.24	1694699.92	413413.18	39°37'48.0061"N	80°35'2.2486"W	4.28	130.668	0.02	0.02	0.14
1115.00	0.300	110.290	1114.99	-4.37	-2.98	3.76	1694700.44	413412.99	39°37'48.0042"N	80°35'2.2420"W	4.80	128.435	0.03	-0.03	-0.96
1215.00	0.280	104.290	1214.99	-4.73	-3.13	4.24	1694700.92	413412.84	39°37'48.0028"N	80°35'2.2358"W	5.27	126.462	0.04	-0.02	-6.00
1315.00	0.220	96.670	1314.99	-4.99	-3.22	4.67	1694701.35	413412.75	39°37'48.0020"N	80°35'2.2303"W	5.67	124.565	0.07	-0.06	-7.62
1415.00	0.250	92.410	1414.98	-5.21	-3.25	5.08	1694701.76	413412.72	39°37'48.0018"N	80°35'2.2251"W	6.03	122.606	0.03	0.03	-4.26
1515.00	0.280	87.770	1514.98	-5.42	-3.25	5.54	1694702.22	413412.72	39°37'48.0018"N	80°35'2.2192"W	6.42	120.381	0.04	0.03	-4.64
1615.00	0.270	101.390	1614.98	-5.67	-3.28	6.01	1694702.69	413412.69	39°37'48.0015"N	80°35'2.2131"W	6.85	118.638	0.07	-0.01	13.62
1715.00	0.180	107.960	1714.98	-5.93	-3.38	6.39	1694703.07	413412.59	39°37'48.0006"N	80°35'2.2082"W	7.23	117.854	0.09	-0.09	6.57
1815.00	0.170	110.710	1814.98	-6.15	-3.48	6.68	1694703.36	413412.49	39°37'47.9996"N	80°35'2.2045"W	7.53	117.508	0.01	-0.01	2.75
1915.00	0.160	105.580	1914.98	-6.36	-3.57	6.95	1694703.63	413412.40	39°37'47.9988"N	80°35'2.2010"W	7.82	117.168	0.02	-0.01	-5.13
2015.00	0.160	115.170	2014.98	-6.56	-3.67	7.22	1694703.90	413412.30	39°37'47.9979"N	80°35'2.1977"W	8.09	116.935	0.03	0.00	9.59
2115.00	0.170	109.350	2114.98	-6.78	-3.77	7.48	1694704.16	413412.20	39°37'47.9968"N	80°35'2.1943"W	8.38	116.771	0.02	0.01	-5.82
2215.00	0.230	96.010	2214.98	-7.00	-3.84	7.82	1694704.50	413412.13	39°37'47.9962"N	80°35'2.1899"W	8.72	116.178	0.08	0.06	-13.34
2315.00	0.280	96.010	2314.98	-7.24	-3.89	8.26	1694704.94	413412.08	39°37'47.9958"N	80°35'2.1842"W	9.13	115.215	0.05	0.05	0.00
2415.00	0.280	87.680	2414.98	-7.48	-3.91	8.75	1694705.43	413412.06	39°37'47.9957"N	80°35'2.1780"W	9.58	114.059	0.04	0.00	-8.33
2515.00	0.390	88.120	2514.98	-7.73	-3.89	9.34	1694706.01	413412.08	39°37'47.9959"N	80°35'2.1705"W	10.11	112.601	0.11	0.11	0.44
2615.00	0.490	89.680	2614.97	-8.07	-3.87	10.10	1694706.78	413412.10	39°37'47.9962"N	80°35'2.1607"W	10.82	110.972	0.10	0.10	1.56
2715.00	0.630	93.000	2714.97	-8.54	-3.90	11.08	1694707.76	413412.07	39°37'47.9960"N	80°35'2.1483"W	11.75	109.387	0.14	0.14	3.32
2783.00	0.750	82.940	2782.96	-8.88	-3.86	11.89	1694708.57	413412.11	39°37'47.9965"N	80°35'2.1378"W	12.51	107.995	0.25	0.18	-14.79



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Field	Wetzel	API	47-103-03524-0000
Facility	Cash Pad	Wellbore	Cash 3H AWB
Slot	Slot 03		

WELLPATH DATA (222 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]
2814.00	0.620	70.420	2813.96	-8.97	-3.78	12.25	1694708.93	413412.19	39°37'47.9973"N	80°35'2.1333"W	12.82	107.154	0.64	-0.42	-40.39
2857.00	0.900	80.640	2856.96	-9.11	-3.65	12.81	1694709.49	413412.32	39°37'47.9987"N	80°35'2.1262"W	13.32	105.907	0.72	0.65	23.77
2900.00	1.000	78.590	2899.95	-9.31	-3.52	13.51	1694710.19	413412.45	39°37'48.0001"N	80°35'2.1173"W	13.96	104.608	0.25	0.23	-4.77
2943.00	1.810	80.120	2942.94	-9.62	-3.33	14.54	1694711.22	413412.64	39°37'48.0021"N	80°35'2.1041"W	14.92	102.895	1.89	1.88	3.56
2987.00	2.400	85.540	2986.91	-10.18	-3.14	16.15	1694712.83	413412.83	39°37'48.0041"N	80°35'2.0836"W	16.45	101.001	1.41	1.34	12.32
3073.00	5.140	83.610	3072.71	-12.25	-2.57	21.77	1694718.45	413413.40	39°37'48.0104"N	80°35'2.0118"W	21.92	96.732	3.19	3.19	-2.24
3160.00	7.500	81.210	3159.18	-15.44	-1.27	31.26	1694727.94	413414.70	39°37'48.0244"N	80°35'1.8908"W	31.28	92.324	2.73	2.71	-2.76
3246.00	8.710	80.470	3244.32	-19.19	0.67	43.23	1694739.90	413416.64	39°37'48.0450"N	80°35'1.7381"W	43.23	89.116	1.41	1.41	-0.86
3332.00	9.210	77.630	3329.27	-22.94	3.22	56.37	1694753.05	413419.19	39°37'48.0718"N	80°35'1.5705"W	56.46	86.731	0.78	0.58	-3.30
3419.00	9.510	74.540	3415.11	-26.19	6.63	70.10	1694766.77	413422.60	39°37'48.1071"N	80°35'1.3956"W	70.41	84.599	0.67	0.34	-3.55
3505.00	9.100	69.170	3499.98	-28.40	10.94	83.30	1694779.98	413426.91	39°37'48.1513"N	80°35'1.2276"W	84.02	82.519	1.12	-0.48	-6.24
3592.00	8.300	74.760	3585.98	-30.48	15.04	95.79	1694792.47	413431.01	39°37'48.1933"N	80°35'1.0686"W	96.97	81.079	1.34	-0.92	6.43
3678.00	8.510	83.950	3671.06	-34.07	17.34	108.11	1694804.78	413433.31	39°37'48.2175"N	80°35'0.9115"W	109.49	80.888	1.58	0.24	10.69
3765.00	9.010	86.640	3757.05	-39.15	18.42	121.31	1694817.98	413434.39	39°37'48.2297"N	80°35'0.7430"W	122.70	81.368	0.74	0.57	3.09
3851.00	9.370	86.080	3841.94	-44.65	19.29	135.02	1694831.69	413435.26	39°37'48.2400"N	80°35'0.5679"W	136.39	81.869	0.43	0.42	-0.65
3938.00	9.150	85.210	3927.81	-50.10	20.35	148.98	1694845.65	413436.32	39°37'48.2521"N	80°35'0.3897"W	150.36	82.221	0.30	-0.25	-1.00
4025.00	7.950	87.110	4013.84	-55.22	21.23	161.88	1694858.55	413437.20	39°37'48.2624"N	80°35'0.2250"W	163.27	82.528	1.42	-1.38	2.18
4111.00	8.010	84.540	4099.01	-59.89	22.10	173.78	1694870.45	413438.07	39°37'48.2724"N	80°35'0.0729"W	175.18	82.752	0.42	0.07	-2.99
4198.00	8.390	79.940	4185.12	-64.02	23.79	186.07	1694882.74	413439.76	39°37'48.2905"N	80°34'59.9162"W	187.58	82.714	0.87	0.44	-5.29
4284.00	9.070	79.430	4270.12	-67.81	26.13	198.91	1694895.58	413442.10	39°37'48.3152"N	80°34'59.7525"W	200.62	82.517	0.80	0.79	-0.59
4371.00	9.010	85.180	4356.04	-72.38	27.96	212.44	1694909.11	413443.93	39°37'48.3349"N	80°34'59.5799"W	214.27	82.503	1.04	-0.07	6.61
4457.00	9.130	87.520	4440.97	-77.81	28.82	225.97	1694922.63	413444.79	39°37'48.3450"N	80°34'59.4071"W	227.80	82.732	0.45	0.14	2.72
4544.00	9.390	84.210	4526.83	-83.29	29.83	239.92	1694936.59	413445.80	39°37'48.3567"N	80°34'59.2289"W	241.77	82.912	0.68	0.30	-3.80
4630.00	9.210	85.490	4611.70	-88.52	31.08	253.76	1694950.43	413447.05	39°37'48.3707"N	80°34'59.0522"W	255.66	83.017	0.32	-0.21	1.49
4716.00	9.300	87.360	4696.58	-94.07	31.94	267.57	1694964.23	413447.91	39°37'48.3808"N	80°34'58.8760"W	269.47	83.192	0.37	0.10	2.17
4803.00	9.370	85.060	4782.43	-99.68	32.88	281.65	1694978.31	413448.85	39°37'48.3917"N	80°34'58.6962"W	283.56	83.342	0.44	0.08	-2.64
4889.00	9.860	84.410	4867.22	-105.06	34.20	295.95	1694992.61	413450.17	39°37'48.4065"N	80°34'58.5136"W	297.92	83.409	0.58	0.57	-0.76
4967.00	10.210	87.280	4944.03	-110.39	35.18	309.50	1695006.16	413451.14	39°37'48.4178"N	80°34'58.3406"W	311.49	83.516	0.78	0.45	3.68
5053.00	10.920	85.850	5028.57	-116.75	36.13	325.24	1695021.90	413452.10	39°37'48.4290"N	80°34'58.1396"W	327.24	83.662	0.88	0.83	-1.66
5140.00	10.890	85.620	5114.00	-123.17	37.35	341.65	1695038.31	413453.32	39°37'48.4431"N	80°34'57.9300"W	343.69	83.761	0.06	-0.03	-0.26



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5227.00	10.550	85.970	5199.48	-129.50	38.54	357.79	1695054.45	413454.51	39°37'48.4567"N	80°34'57.7239"W	359.86	83.852	0.40	-0.39	0.40
5313.00	10.600	84.330	5284.02	-135.51	39.87	373.52	1695070.17	413455.84	39°37'48.4718"N	80°34'57.5232"W	375.64	83.907	0.35	0.06	-1.91
5399.00	9.770	85.730	5368.67	-141.27	41.20	388.66	1695085.32	413457.17	39°37'48.4867"N	80°34'57.3298"W	390.84	83.949	1.01	-0.97	1.63
5485.00	9.050	85.550	5453.51	-146.74	42.27	402.68	1695099.34	413458.23	39°37'48.4989"N	80°34'57.1508"W	404.90	84.008	0.84	-0.84	-0.21
5572.00	7.520	84.330	5539.60	-151.48	43.36	415.17	1695111.83	413459.33	39°37'48.5112"N	80°34'56.9914"W	417.43	84.038	1.77	-1.76	-1.40
5658.00	7.490	86.930	5624.86	-155.84	44.22	426.37	1695123.02	413460.18	39°37'48.5210"N	80°34'56.8484"W	428.66	84.079	0.40	-0.03	3.02
5745.00	8.670	86.370	5711.00	-160.79	44.94	438.58	1695135.23	413460.90	39°37'48.5296"N	80°34'56.6925"W	440.87	84.150	1.36	1.36	-0.64
5831.00	8.220	87.900	5796.07	-166.00	45.57	451.19	1695147.84	413461.54	39°37'48.5373"N	80°34'56.5314"W	453.48	84.233	0.58	-0.52	1.78
5918.00	7.240	84.750	5882.27	-170.70	46.30	462.86	1695159.51	413462.27	39°37'48.5459"N	80°34'56.3824"W	465.17	84.288	1.23	-1.13	-3.62
6004.00	6.840	84.690	5967.63	-174.64	47.27	473.36	1695170.01	413463.24	39°37'48.5568"N	80°34'56.2484"W	475.71	84.297	0.47	-0.47	-0.07
6091.00	6.170	84.040	6054.06	-178.27	48.24	483.17	1695179.82	413464.20	39°37'48.5675"N	80°34'56.1232"W	485.57	84.299	0.77	-0.77	-0.75
6177.00	4.970	77.560	6139.66	-180.90	49.52	491.40	1695188.05	413465.48	39°37'48.5811"N	80°34'56.0181"W	493.89	84.246	1.57	-1.40	-7.53
6264.00	4.560	75.080	6226.36	-182.60	51.22	498.42	1695195.07	413467.19	39°37'48.5988"N	80°34'55.9286"W	501.05	84.133	0.53	-0.47	-2.85
6350.00	5.410	83.720	6312.03	-184.78	52.54	505.76	1695202.41	413468.51	39°37'48.6128"N	80°34'55.8351"W	508.48	84.069	1.32	0.99	10.05
6436.00	7.720	90.770	6397.46	-188.94	52.91	515.56	1695212.21	413468.88	39°37'48.6175"N	80°34'55.7099"W	518.27	84.141	2.84	2.69	8.20
6523.00	9.110	88.560	6483.53	-194.68	53.00	528.29	1695224.94	413468.97	39°37'48.6200"N	80°34'55.5472"W	530.95	84.271	1.64	1.60	-2.54
6610.00	9.020	81.600	6569.44	-199.88	54.17	541.93	1695238.57	413470.14	39°37'48.6332"N	80°34'55.3732"W	544.63	84.291	1.26	-0.10	-8.00
6696.00	8.950	75.790	6654.39	-203.57	56.80	555.08	1695251.73	413472.77	39°37'48.6607"N	80°34'55.2055"W	557.98	84.157	1.06	-0.08	-6.76
6783.00	9.470	71.790	6740.27	-206.22	60.70	568.44	1695265.08	413476.66	39°37'48.7008"N	80°34'55.0353"W	571.67	83.905	0.95	0.60	-4.60
6876.00	10.650	62.160	6831.84	-207.33	67.10	583.31	1695279.95	413483.07	39°37'48.7659"N	80°34'54.8463"W	587.15	83.438	2.21	1.27	-10.35
6975.00	13.290	49.680	6928.70	-204.66	78.74	600.08	1695296.72	413494.71	39°37'48.8829"N	80°34'54.6338"W	605.22	82.524	3.72	2.67	-12.61
7070.00	14.740	6.930	7021.11	-192.15	97.86	609.89	1695306.53	413513.82	39°37'49.0729"N	80°34'54.5114"W	617.69	80.885	10.76	1.53	-45.00
7165.00	22.730	7.010	7111.00	-166.94	128.12	613.59	1695310.23	413544.08	39°37'49.3724"N	80°34'54.4687"W	626.82	78.206	8.41	8.41	0.08
7260.00	30.330	358.110	7195.97	-130.03	170.39	615.04	1695311.69	413586.35	39°37'49.7903"N	80°34'54.4566"W	638.21	74.516	9.01	8.00	-9.37
7355.00	30.610	343.200	7277.97	-84.50	217.58	607.25	1695303.89	413633.54	39°37'50.2558"N	80°34'54.5635"W	645.05	70.287	7.95	0.29	-15.69
7450.00	36.180	330.670	7357.35	-32.59	265.28	586.48	1695283.13	413681.23	39°37'50.7247"N	80°34'54.8362"W	643.69	65.662	9.31	5.86	-13.19
7545.00	44.970	329.250	7429.43	29.06	318.68	555.52	1695252.17	413734.63	39°37'51.2487"N	80°34'55.2401"W	640.44	60.159	9.30	9.25	-1.49
7640.00	55.200	329.540	7490.31	101.71	381.32	518.49	1695215.13	413797.26	39°37'51.8634"N	80°34'55.7231"W	643.61	53.668	10.77	10.77	0.31
7735.00	65.440	330.120	7537.29	184.03	452.59	477.08	1695173.73	413868.53	39°37'52.5628"N	80°34'56.2632"W	657.60	46.509	10.79	10.78	0.61
7830.00	75.060	330.200	7569.35	273.24	530.06	432.64	1695129.30	413945.99	39°37'53.3230"N	80°34'56.8430"W	684.21	39.222	10.13	10.13	0.08



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Field	Wetzel	API	47-103-03524-0000
Facility	Cash Pad	Wellbore	Cash 3H AWB
Slot	Slot 03		

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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]
7924.00	82.340	330.040	7587.76	365.26	609.93	386.75	1695083.41	414025.86	39°37'54.1069"N	80°34'57.4418"W	722.21	32.379	7.75	7.74	-0.17
8020.00	88.580	330.450	7595.35	460.82	692.97	339.28	1695035.94	414108.89	39°37'54.9219"N	80°34'58.0613"W	771.57	26.087	6.51	6.50	0.43
8115.00	89.050	330.370	7597.32	555.72	775.56	292.38	1694989.05	414191.48	39°37'55.7325"N	80°34'58.6734"W	828.84	20.656	0.50	0.49	-0.08
8210.00	88.920	330.270	7599.00	650.62	858.08	245.35	1694942.02	414274.00	39°37'56.5424"N	80°34'59.2872"W	892.47	15.957	0.17	-0.14	-0.11
8305.00	89.110	330.470	7600.63	745.52	940.65	198.39	1694895.06	414356.56	39°37'57.3528"N	80°34'59.9001"W	961.34	11.910	0.29	0.20	0.21
8400.00	89.140	330.470	7602.09	840.43	1023.30	151.57	1694848.24	414439.21	39°37'58.1640"N	80°35'0.5111"W	1034.46	8.425	0.03	0.03	0.00
8495.00	89.380	330.150	7603.31	935.34	1105.82	104.52	1694801.20	414521.72	39°37'58.9739"N	80°35'1.1252"W	1110.75	5.400	0.42	0.25	-0.34
8590.00	89.350	330.070	7604.36	1030.23	1188.18	57.18	1694753.86	414604.07	39°37'59.7821"N	80°35'1.7429"W	1189.55	2.755	0.09	-0.03	-0.08
8685.00	90.830	330.030	7604.22	1125.12	1270.49	9.76	1694706.44	414686.38	39°38'0.5899"N	80°35'2.3617"W	1270.53	0.440	1.56	1.56	-0.04
8780.00	89.810	330.290	7603.69	1220.02	1352.89	-37.51	1694659.17	414768.78	39°38'1.3986"N	80°35'2.9785"W	1353.41	358.412	1.11	-1.07	0.27
8875.00	89.850	330.340	7603.97	1314.93	1435.42	-84.56	1694612.13	414851.31	39°38'2.2086"N	80°35'3.5925"W	1437.91	356.629	0.07	0.04	0.05
8970.00	89.660	330.780	7604.37	1409.86	1518.15	-131.25	1694565.44	414934.03	39°38'3.0206"N	80°35'4.2020"W	1523.82	355.059	0.50	-0.20	0.46
9065.00	89.540	330.390	7605.04	1504.79	1600.91	-177.91	1694518.78	415016.78	39°38'3.8328"N	80°35'4.8111"W	1610.76	353.659	0.43	-0.13	-0.41
9160.00	89.540	329.860	7605.80	1599.69	1683.28	-225.23	1694471.47	415099.15	39°38'4.6412"N	80°35'5.4286"W	1698.28	352.379	0.56	0.00	-0.56
9255.00	89.510	330.120	7606.59	1694.57	1765.54	-272.74	1694423.96	415181.40	39°38'5.4485"N	80°35'6.0485"W	1786.48	351.218	0.28	-0.03	0.27
9350.00	89.630	330.650	7607.30	1789.49	1848.13	-319.68	1694377.01	415263.98	39°38'6.2590"N	80°35'6.6612"W	1875.57	350.186	0.57	0.13	0.56
9446.00	89.600	329.770	7607.94	1885.39	1931.44	-367.38	1694329.32	415347.29	39°38'7.0767"N	80°35'7.2836"W	1966.07	349.230	0.92	-0.03	-0.92
9541.00	89.660	330.930	7608.56	1980.30	2014.00	-414.37	1694282.33	415429.84	39°38'7.8869"N	80°35'7.8970"W	2056.18	348.374	1.22	0.06	1.22
9636.00	90.310	330.390	7608.58	2075.24	2096.81	-460.92	1694235.79	415512.65	39°38'8.6998"N	80°35'8.5047"W	2146.87	347.602	0.89	0.68	-0.57
9731.00	89.720	330.320	7608.56	2170.16	2179.37	-507.91	1694188.80	415595.21	39°38'9.5101"N	80°35'9.1180"W	2237.78	346.881	0.63	-0.62	-0.07
9826.00	89.690	329.850	7609.05	2265.05	2261.72	-555.29	1694141.43	415677.55	39°38'10.3182"N	80°35'9.7363"W	2328.88	346.206	0.50	-0.03	-0.49
9920.00	89.540	329.480	7609.68	2358.91	2342.84	-602.76	1694093.95	415758.67	39°38'11.1142"N	80°35'10.3556"W	2419.14	345.572	0.42	-0.16	-0.39
10015.00	89.750	330.590	7610.27	2453.80	2425.14	-650.21	1694046.51	415840.96	39°38'11.9219"N	80°35'10.9747"W	2510.79	344.991	1.19	0.22	1.17
10111.00	89.600	329.970	7610.81	2549.71	2508.51	-697.80	1693998.92	415924.33	39°38'12.7401"N	80°35'11.5959"W	2603.76	344.455	0.66	-0.16	-0.65
10205.00	89.810	330.500	7611.30	2643.62	2590.11	-744.47	1693952.26	416005.92	39°38'13.5409"N	80°35'12.2049"W	2694.98	343.964	0.61	0.22	0.56
10300.00	89.410	329.920	7611.94	2738.52	2672.55	-791.66	1693905.06	416088.36	39°38'14.3500"N	80°35'12.8209"W	2787.34	343.500	0.74	-0.42	-0.61
10395.00	89.720	330.510	7612.66	2833.42	2755.00	-838.85	1693857.88	416170.80	39°38'15.1591"N	80°35'13.4368"W	2879.88	343.065	0.70	0.33	0.62
10491.00	89.660	330.560	7613.18	2929.35	2838.58	-886.07	1693810.66	416254.38	39°38'15.9794"N	80°35'14.0532"W	2973.66	342.664	0.08	-0.06	0.05
10586.00	89.780	329.530	7613.65	3024.24	2920.89	-933.51	1693763.23	416336.68	39°38'16.7872"N	80°35'14.6722"W	3066.44	342.276	1.09	0.13	-1.08
10681.00	89.380	329.390	7614.34	3119.08	3002.71	-981.78	1693714.96	416418.49	39°38'17.5900"N	80°35'15.3018"W	3159.14	341.894	0.45	-0.42	-0.15



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Facility	Cash Pad	Wellbore	Cash 3H AWB
Slot	Slot 03		

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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]
10776.00	88.950	327.180	7615.73	3213.77	3083.51	-1031.71	1693665.03	416499.29	39°38'18.3825"N	80°35'15.9525"W	3251.53	341.500	2.37	-0.45	-2.33
10871.00	89.230	327.870	7617.24	3308.36	3163.64	-1082.71	1693614.03	416579.42	39°38'19.1683"N	80°35'16.6168"W	3343.79	341.107	0.78	0.29	0.73
10967.00	89.320	329.640	7618.45	3404.12	3245.71	-1132.50	1693564.25	416661.48	39°38'19.9733"N	80°35'17.2659"W	3437.61	340.765	1.85	0.09	1.84
11062.00	89.320	329.120	7619.58	3498.95	3327.46	-1180.89	1693515.87	416743.22	39°38'20.7754"N	80°35'17.8969"W	3530.79	340.461	0.55	0.00	-0.55
11158.00	89.810	329.490	7620.31	3594.77	3410.00	-1229.89	1693466.86	416825.76	39°38'21.5853"N	80°35'18.5361"W	3625.02	340.167	0.64	0.51	0.39
11253.00	89.660	329.430	7620.75	3689.61	3491.82	-1278.16	1693418.60	416907.58	39°38'22.3881"N	80°35'19.1657"W	3718.40	339.895	0.17	-0.16	-0.06
11348.00	89.690	329.960	7621.29	3784.47	3573.84	-1326.10	1693370.66	416989.59	39°38'23.1929"N	80°35'19.7911"W	3811.94	339.642	0.56	0.03	0.56
11443.00	89.720	329.980	7621.78	3879.36	3656.09	-1373.64	1693323.12	417071.83	39°38'24.0000"N	80°35'20.4115"W	3905.62	339.408	0.04	0.03	0.02
11538.00	89.750	329.640	7622.22	3974.23	3738.20	-1421.41	1693275.35	417153.94	39°38'24.8057"N	80°35'21.0348"W	3999.32	339.181	0.36	0.03	-0.36
11633.00	89.440	330.000	7622.89	4069.10	3820.32	-1469.17	1693227.60	417236.06	39°38'25.6116"N	80°35'21.6580"W	4093.08	338.965	0.50	-0.33	0.38
11728.00	89.840	329.410	7623.48	4163.97	3902.35	-1517.09	1693179.68	417318.08	39°38'26.4164"N	80°35'22.2832"W	4186.87	338.756	0.75	0.42	-0.62
11824.00	89.570	329.510	7623.98	4259.80	3985.03	-1565.87	1693130.90	417400.75	39°38'27.2277"N	80°35'22.9195"W	4281.63	338.548	0.30	-0.28	0.10
11919.00	89.290	329.540	7624.92	4354.65	4066.90	-1614.05	1693082.73	417482.62	39°38'28.0310"N	80°35'23.5480"W	4375.48	338.353	0.30	-0.29	0.03
12014.00	89.750	330.580	7625.72	4449.54	4149.22	-1661.46	1693035.32	417564.93	39°38'28.8388"N	80°35'24.1668"W	4469.50	338.177	1.20	0.48	1.09
12110.00	89.320	328.380	7626.50	4545.37	4231.91	-1710.21	1692986.57	417647.62	39°38'29.6501"N	80°35'24.8027"W	4564.41	337.995	2.33	-0.45	-2.29
12205.00	89.910	329.390	7627.14	4640.15	4313.24	-1759.30	1692937.49	417728.94	39°38'30.4480"N	80°35'25.4428"W	4658.23	337.810	1.23	0.62	1.06
12300.00	88.710	329.430	7628.28	4734.98	4395.01	-1807.64	1692889.15	417810.71	39°38'31.2503"N	80°35'26.0733"W	4752.23	337.643	1.26	-1.26	0.04
12395.00	89.050	330.400	7630.14	4829.84	4477.19	-1855.25	1692841.54	417892.89	39°38'32.0567"N	80°35'26.6947"W	4846.36	337.492	1.08	0.36	1.02
12490.00	90.280	332.730	7630.69	4924.81	4560.72	-1900.48	1692796.31	417976.41	39°38'32.8768"N	80°35'27.2858"W	4940.85	337.378	2.77	1.29	2.45
12585.00	90.340	331.340	7630.18	5019.80	4644.63	-1945.03	1692751.77	418060.31	39°38'33.7006"N	80°35'27.8682"W	5035.45	337.278	1.46	0.06	-1.46
12680.00	89.810	329.490	7630.05	5114.72	4727.24	-1991.93	1692704.87	418142.92	39°38'34.5114"N	80°35'28.4805"W	5129.77	337.151	2.03	-0.56	-1.95
12775.00	88.740	329.440	7631.26	5209.55	4809.06	-2040.19	1692656.61	418224.73	39°38'35.3141"N	80°35'29.1101"W	5223.93	337.011	1.13	-1.13	-0.05
12870.00	89.010	330.410	7633.12	5304.42	4891.25	-2087.79	1692609.02	418306.92	39°38'36.1207"N	80°35'29.7312"W	5318.19	336.885	1.06	0.28	1.02
12964.00	88.180	330.900	7635.43	5398.32	4973.16	-2133.84	1692562.97	418388.83	39°38'36.9246"N	80°35'30.3326"W	5411.62	336.777	1.03	-0.88	0.52
13059.00	90.400	329.100	7636.60	5493.20	5055.42	-2181.33	1692515.48	418471.08	39°38'37.7318"N	80°35'30.9524"W	5505.95	336.661	3.01	2.34	-1.89
13154.00	90.860	330.270	7635.56	5588.05	5137.42	-2229.28	1692467.53	418553.08	39°38'38.5365"N	80°35'31.5780"W	5600.25	336.543	1.32	0.48	1.23
13250.00	89.750	330.050	7635.05	5683.95	5220.69	-2277.05	1692419.77	418636.34	39°38'39.3536"N	80°35'32.2015"W	5695.66	336.435	1.18	-1.16	-0.23
13345.00	90.430	329.290	7634.90	5778.81	5302.69	-2325.02	1692371.80	418718.33	39°38'40.1582"N	80°35'32.8275"W	5790.01	336.324	1.07	0.72	-0.80
13440.00	90.340	329.780	7634.26	5873.66	5384.57	-2373.19	1692323.64	418800.21	39°38'40.9616"N	80°35'33.4559"W	5884.35	336.215	0.52	-0.09	0.52
13535.00	89.880	329.190	7634.08	5968.50	5466.41	-2421.42	1692275.41	418882.05	39°38'41.7646"N	80°35'34.0852"W	5978.71	336.108	0.79	-0.48	-0.62



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13630.00	89.840	329.320	7634.31	6063.32	5548.06	-2469.99	1692226.84	418963.69	39°38'42.5656"N	80°35'34.7187"W	6073.04	336.001	0.14	-0.04	0.14
13725.00	89.780	329.540	7634.63	6158.16	5629.85	-2518.30	1692178.53	419045.48	39°38'43.3681"N	80°35'35.3490"W	6167.42	335.900	0.24	-0.06	0.23
13820.00	89.570	329.170	7635.16	6252.99	5711.59	-2566.73	1692130.11	419127.21	39°38'44.1700"N	80°35'35.9807"W	6261.81	335.801	0.45	-0.22	-0.39
13915.00	89.350	329.070	7636.06	6347.80	5793.12	-2615.48	1692081.36	419208.73	39°38'44.9698"N	80°35'36.6166"W	6356.17	335.702	0.25	-0.23	-0.11
14011.00	89.540	329.150	7636.99	6443.60	5875.49	-2664.76	1692032.08	419291.10	39°38'45.7780"N	80°35'37.2594"W	6451.54	335.604	0.21	0.20	0.08
14106.00	89.320	329.150	7637.93	6538.40	5957.05	-2713.48	1691983.37	419372.65	39°38'46.5781"N	80°35'37.8947"W	6545.94	335.510	0.23	-0.23	0.00
14201.00	89.630	329.420	7638.81	6633.23	6038.72	-2762.00	1691934.85	419454.32	39°38'47.3794"N	80°35'38.5277"W	6640.39	335.422	0.43	0.33	0.28
14296.00	89.630	329.420	7638.81	6633.23	6038.72	-2762.00	1691934.85	419454.32	39°38'47.3794"N	80°35'38.5277"W	6640.39	335.422	0.43	0.33	0.28
14296.00	90.090	329.730	7639.04	6728.08	6120.64	-2810.11	1691886.74	419536.23	39°38'48.1831"N	80°35'39.1554"W	6734.90	335.339	0.58	0.48	0.33
14391.00	90.250	329.620	7638.76	6822.94	6202.64	-2858.07	1691838.78	419618.23	39°38'48.9877"N	80°35'39.7813"W	6829.44	335.261	0.20	0.17	-0.12
14486.00	89.970	328.960	7638.57	6917.76	6284.31	-2906.59	1691790.27	419699.90	39°38'49.7890"N	80°35'40.4142"W	6923.93	335.179	0.75	-0.29	-0.69
14581.00	90.120	329.380	7638.50	7012.58	6365.89	-2955.27	1691741.59	419781.47	39°38'50.5893"N	80°35'41.0492"W	7018.42	335.098	0.47	0.16	0.44
14676.00	90.090	329.770	7638.32	7107.43	6447.81	-3003.38	1691693.48	419863.38	39°38'51.3931"N	80°35'41.6769"W	7112.98	335.024	0.41	-0.03	0.41
14770.00	89.260	327.860	7638.86	7201.20	6528.22	-3052.05	1691644.81	419943.79	39°38'52.1818"N	80°35'42.3116"W	7206.43	334.943	2.22	-0.88	-2.03
14865.00	89.780	327.570	7639.65	7295.83	6608.53	-3102.79	1691594.08	420024.09	39°38'52.9694"N	80°35'42.9727"W	7300.68	334.849	0.63	0.55	-0.31
14961.00	89.260	329.200	7640.46	7391.54	6690.27	-3153.11	1691543.76	420105.83	39°38'53.7712"N	80°35'43.6287"W	7396.07	334.766	1.78	-0.54	1.70
15055.00	89.570	329.810	7641.42	7485.39	6771.27	-3200.81	1691496.06	420186.82	39°38'54.5658"N	80°35'44.2511"W	7489.68	334.700	0.73	0.33	0.65
15150.00	90.030	329.500	7641.75	7580.25	6853.25	-3248.81	1691448.07	420268.80	39°38'55.3702"N	80°35'44.8774"W	7584.31	334.637	0.58	0.48	-0.33
15245.00	89.660	329.580	7642.01	7675.09	6935.14	-3296.97	1691399.92	420350.68	39°38'56.1737"N	80°35'45.5058"W	7678.94	334.574	0.40	-0.39	0.08
15341.00	88.920	328.370	7643.20	7770.88	7017.40	-3346.44	1691350.44	420432.94	39°38'56.9806"N	80°35'46.1510"W	7774.48	334.505	1.48	-0.77	-1.26
15436.00	89.910	330.540	7644.17	7865.71	7099.20	-3394.71	1691302.17	420514.74	39°38'57.7832"N	80°35'46.7809"W	7869.10	334.444	2.51	1.04	2.28
15531.00	89.630	330.210	7644.55	7960.62	7181.78	-3441.67	1691255.22	420597.31	39°38'58.5937"N	80°35'47.3941"W	7963.87	334.395	0.46	-0.29	-0.35
15626.00	89.410	329.860	7645.34	8055.51	7264.08	-3489.12	1691207.77	420679.61	39°38'59.4012"N	80°35'48.0135"W	8058.59	334.344	0.44	-0.23	-0.37
15721.00	89.380	329.630	7646.35	8150.37	7346.14	-3536.99	1691159.91	420761.66	39°39'0.2064"N	80°35'48.6381"W	8153.28	334.290	0.24	-0.03	-0.24
15816.00	89.880	330.320	7646.96	8245.26	7428.39	-3584.52	169112.38	420843.90	39°39'1.0135"N	80°35'49.2586"W	8248.01	334.241	0.90	0.53	0.73
15911.00	88.710	329.880	7648.13	8340.15	7510.74	-3631.87	1691065.03	420926.25	39°39'1.8215"N	80°35'49.8768"W	8342.76	334.194	1.32	-1.23	-0.46
16006.00	89.940	330.770	7649.25	8435.05	7593.27	-3678.90	1691018.01	421008.77	39°39'2.6315"N	80°35'50.4908"W	8437.54	334.150	1.60	1.29	0.94
16101.00	89.880	330.400	7649.40	8529.98	7676.02	-3725.56	1690971.35	421091.52	39°39'3.4436"N	80°35'51.1002"W	8532.35	334.110	0.39	-0.06	-0.39
16196.00	90.060	331.650	7649.45	8624.94	7759.13	-3771.58	1690925.33	421174.62	39°39'4.2594"N	80°35'51.7015"W	8627.22	334.076	1.33	0.19	1.32
16291.00	90.310	330.600	7649.14	8719.90	7842.32	-3817.45	1690879.46	421257.80	39°39'5.0759"N	80°35'52.3009"W	8722.09	334.044	1.14	0.26	-1.11
16386.00	90.090	330.200	7648.81	8814.82	7924.92	-3864.38	1690832.54	421340.40	39°39'5.8865"N	80°35'52.9137"W	8816.90	334.005	0.48	-0.23	-0.42



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Cash 3H AWB Proj: 20301'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Cash 3H
Field	Wetzel	API	47-103-03524-0000
Facility	Cash Pad	Wellbore	Cash 3H AWB
Slot	Slot 03		

WELLPATH DATA (222 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]
16481.00	90.270	330.570	7648.51	8909.73	8007.51	-3911.32	1690785.60	421422.99	39°39'6.6970"N	80°35'53.5267"W	8911.71	333.966	0.43	0.19	0.39
16576.00	90.210	330.530	7648.11	9004.66	8090.23	-3958.03	1690738.89	421505.70	39°39'7.5089"N	80°35'54.1368"W	9006.54	333.930	0.08	-0.06	-0.04
16671.00	90.700	330.770	7647.36	9099.60	8173.03	-4004.59	1690692.33	421588.50	39°39'8.3216"N	80°35'54.7449"W	9101.39	333.896	0.57	0.52	0.25
16766.00	89.930	330.680	7646.84	9194.53	8255.90	-4051.05	1690645.88	421671.36	39°39'9.1349"N	80°35'55.3517"W	9196.24	333.864	0.82	-0.81	-0.09
16861.00	89.750	330.280	7647.10	9289.46	8338.56	-4097.85	1690599.08	421754.02	39°39'9.9461"N	80°35'55.9631"W	9291.07	333.829	0.46	-0.19	-0.42
16955.00	89.840	330.350	7647.44	9383.37	8420.23	-4144.41	1690552.53	421835.68	39°39'10.7475"N	80°35'56.5709"W	9384.90	333.794	0.12	0.10	0.07
17050.00	90.400	330.750	7647.24	9478.30	8502.95	-4191.11	1690505.82	421918.40	39°39'11.5594"N	80°35'57.1810"W	9479.75	333.761	0.72	0.59	0.42
17145.00	89.900	330.510	7646.99	9573.23	8585.74	-4237.71	1690459.23	422001.18	39°39'12.3719"N	80°35'57.7896"W	9574.61	333.730	0.58	-0.53	-0.25
17240.00	89.810	330.340	7647.23	9668.15	8668.36	-4284.59	1690412.35	422083.80	39°39'13.1827"N	80°35'58.4019"W	9669.45	333.698	0.20	-0.09	-0.18
17336.00	89.810	330.370	7647.55	9764.07	8751.80	-4332.08	1690364.87	422167.23	39°39'14.0015"N	80°35'59.0220"W	9765.29	333.665	0.03	0.00	0.03
17430.00	89.630	330.240	7648.01	9857.98	8833.45	-4378.64	1690318.31	422248.88	39°39'14.8028"N	80°35'59.6301"W	9859.13	333.633	0.24	-0.19	-0.14
17525.00	90.000	331.180	7648.31	9952.92	8916.30	-4425.12	1690271.83	422331.73	39°39'15.6160"N	80°36'0.2372"W	10048.90	333.580	0.57	-0.20	-0.54
17620.00	89.810	330.670	7648.47	10047.87	8999.33	-4471.28	1690225.67	422414.75	39°39'16.4309"N	80°36'0.8404"W	10143.78	333.553	0.18	-0.06	0.17
17715.00	89.750	330.830	7648.84	10142.81	9082.22	-4517.70	1690179.25	422497.63	39°39'17.2444"N	80°36'1.4468"W	10238.67	333.527	0.29	0.06	-0.28
17810.00	89.810	330.560	7649.20	10237.75	9165.06	-4564.20	1690132.76	422580.47	39°39'18.0575"N	80°36'2.0542"W	10333.54	333.499	0.03	0.03	0.00
17905.00	89.840	330.560	7649.49	10332.68	9247.79	-4610.89	1690086.07	422663.20	39°39'18.8694"N	80°36'2.6641"W	10428.44	333.475	0.59	0.20	0.56
18000.00	90.030	331.090	7649.60	10427.62	9330.74	-4657.20	1690039.76	422746.14	39°39'19.6835"N	80°36'3.2691"W	10523.32	333.450	0.85	-0.17	-0.83
18095.00	89.870	330.300	7649.68	10522.56	9413.58	-4703.70	1689993.27	422828.98	39°39'20.4965"N	80°36'3.8766"W	10619.19	333.422	0.12	0.00	0.13
18191.00	89.870	330.420	7649.90	10618.48	9497.02	-4751.18	1689945.79	422912.41	39°39'21.3154"N	80°36'4.4966"W	10714.08	333.398	0.64	0.14	0.62
18286.00	90.000	331.010	7650.01	10713.42	9579.88	-4797.65	1689899.33	422995.26	39°39'22.1286"N	80°36'5.1037"W	10808.96	333.373	1.13	-0.26	-1.09
18381.00	89.750	329.970	7650.21	10808.34	9662.55	-4844.44	1689852.53	423077.93	39°39'22.9399"N	80°36'5.7149"W	10903.76	333.340	0.65	0.00	-0.65
18476.00	89.750	329.350	7650.63	10903.20	9744.54	-4892.43	1689804.55	423159.91	39°39'23.7443"N	80°36'6.3412"W	10998.53	333.306	0.11	0.03	0.11
18571.00	89.780	329.450	7651.02	10998.03	9826.31	-4940.79	1689756.19	423241.68	39°39'24.5465"N	80°36'6.9723"W	11094.31	333.272	0.14	0.00	-0.14
18667.00	89.780	329.320	7651.39	11093.87	9908.93	-4989.68	1689707.31	423324.29	39°39'25.3571"N	80°36'7.6103"W	11188.10	333.240	0.21	-0.16	0.14
18761.00	89.630	329.450	7651.87	11187.70	9989.89	-5037.55	1689659.44	423405.18	39°39'26.1507"N	80°36'8.2350"W	11282.89	333.208	0.56	-0.56	0.04
18856.00	89.100	329.490	7652.92	11282.54	10071.65	-5085.80	1689611.19	423487.00	39°39'26.9535"N	80°36'8.8647"W	11377.67	333.176	0.17	0.03	-0.17
18951.00	89.130	329.330	7654.39	11377.37	10153.42	-5134.14	1689562.85	423568.77	39°39'27.7557"N	80°36'9.4956"W	11472.45	333.145	0.18	0.07	0.17
19046.00	89.200	329.490	7655.78	11472.19	10235.19	-5182.48	1689514.52	423650.53	39°39'28.5579"N	80°36'10.1264"W	11566.28	333.118	0.63	0.22	0.59
19140.00	89.410	330.040	7656.92	11566.06	10316.39	-5229.81	1689467.19	423731.73	39°39'29.3547"N	80°36'10.7442"W	11661.17	333.095	0.78	0.52	0.59
19235.00	89.900	330.600	7657.49	11660.97	10398.93	-5276.85	1689420.15	423814.26	39°39'30.1646"N	80°36'11.3586"W					



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Cash 3H AWB Proj: 20301'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Cash 3H
Field	Wetzel	API	47-103-03524-0000
Facility	Cash Pad	Wellbore	Cash 3H AWB
Slot	Slot 03		

WELLPATH DATA (222 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]
19331.00	89.070	329.450	7658.35	11756.85	10482.08	-5324.81	1689372.20	423897.41	39°39'30.9805"N	80°36'11.9848"W	11757.03	333.070	1.48	-0.86	-1.20
19425.00	88.830	329.060	7660.07	11850.66	10562.86	-5372.86	1689324.15	423978.18	39°39'31.7729"N	80°36'12.6118"W	11850.80	333.040	0.49	-0.26	-0.41
19521.00	89.720	328.410	7661.29	11946.42	10644.91	-5422.68	1689274.34	424060.23	39°39'32.5777"N	80°36'13.2616"W	11946.53	333.005	1.15	0.93	-0.68
19616.00	89.500	328.440	7661.94	12041.14	10725.84	-5472.42	1689224.60	424141.15	39°39'33.3715"N	80°36'13.9102"W	12041.22	332.969	0.23	-0.23	0.03
19710.00	89.690	328.500	7662.60	12134.88	10805.96	-5521.57	1689175.44	424221.27	39°39'34.1573"N	80°36'14.5513"W	12134.93	332.934	0.21	0.20	0.06
19805.00	89.500	329.060	7663.27	12229.64	10887.20	-5570.81	1689126.21	424302.51	39°39'34.9542"N	80°36'15.1936"W	12229.68	332.902	0.62	-0.20	0.59
19900.00	89.660	329.440	7663.97	12324.46	10968.84	-5619.38	1689077.64	424384.14	39°39'35.7551"N	80°36'15.8274"W	12324.49	332.874	0.43	0.17	0.40
19995.00	89.690	329.620	7664.51	12419.31	11050.72	-5667.56	1689029.47	424466.02	39°39'36.5584"N	80°36'16.4562"W	12419.33	332.848	0.19	0.03	0.19
20090.00	89.350	329.430	7665.30	12514.16	11132.60	-5715.74	1688981.29	424547.88	39°39'37.3616"N	80°36'17.0850"W	12514.16	332.823	0.41	-0.36	-0.20
20185.00	89.720	329.500	7666.07	12609.00	11214.42	-5764.00	1688933.03	424629.70	39°39'38.1644"N	80°36'17.7150"W	12609.00	332.798	0.40	0.39	0.07
20276.00	89.750	329.610	7666.49	12699.85	11292.87	-5810.11	1688886.93	424708.15	39°39'38.9340"N	80°36'18.3168"W	12699.85	332.774	0.13	0.03	0.12
20301.00‡	89.750	329.610	7666.60	12724.81	11314.43	-5822.76	1688874.28	424729.71	39°39'39.1456"N	80°36'18.4819"W	12724.82	332.768	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Cash 3H AWB Ref Wellpath: Cash 3H AWB Proj: 20301'

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	1344.98	-0.05	0.04	-3.23	4.78
13.375in Casing Surface	28.00	1345.00	1317.00	28.00	1344.98	0.00	0.00	-3.23	4.78
12.25in Open Hole	1345.00	2802.00	1457.00	1344.98	2801.96	-3.23	4.78	-3.82	12.13
9.625in Casing Intermediate	28.00	2802.00	2774.00	28.00	2801.96	0.00	0.00	-3.82	12.13
8.75in Open Hole	2802.00	6956.00	4154.00	2801.96	6910.19	-3.82	12.13	76.03	596.77
8.5in Open Hole	6956.00	20301.00	13345.00	6910.19	7666.60	76.03	596.77	11314.43	-5822.76
5.5in Casing Production	28.00	20301.00	20273.00	28.00	7666.60	0.00	0.00	11314.43	-5822.76



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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Cash 3H
Field	Wetzel	API	47-103-03524-0000
Facility	Cash Pad	Wellbore	Cash 3H AWB
Slot	Slot 03		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Cash 3H BHL Rev-0	7586.00	11314.50	-5823.93	1688873.11	424729.78	39°39'39.1461"N	80°36'18.4969"W	point
Cash 3H LP Rev-0	7586.00	658.80	364.76	1695061.42	414074.73	39°37'54.5873"N	80°34'57.7304"W	point
Cash Hardline 1(8-24-2023)	9116.00	10912.75	-6515.75	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	11214.06	-5996.88	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	11716.29	-5132.13	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	12419.39	-3921.47	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 3H AWB Ref Wellpath: Cash 3H AWB Proj: 20301'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	2783.00	Gyrodata 2015 - CT+WIR+DPIPE	01 Gyrodata Cont Gyro <12-1/4">(115'-2783')	Cash 3H AWB	8/31/2023
2783.00	6876.00	OWSG MWD rev2 + HRGM	02 SDI MWD <8-3/4">(2873')(2814'-6876')	Cash 3H AWB	8/31/2023
6876.00	20301.00	OWSG MWD rev2 + IFR1 + Sag + Multi-Station Correction	03 BH Lucida+SQC IFR1+SAG+FDIR <8-1/2">(6876')(6975'- 20276')	Cash 3H AWB	9/11/2023



Actual Wellpath Report

Cash 3H AWB Proj: 20301'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Cash 3H
Field	Wetzel	API	47-103-03524-0000
Facility	Cash Pad	Wellbore	Cash 3H AWB
Slot	Slot 03		

COMMENTS

Wellpath general comments

API: 47-103-03524-0000

BH Job #: 111957735

Rig: Patterson 292

Duration: 9/13/2023-9/15/2023

01_Gyrodata Cont Gyro <12-1/4">(115'-2783')

02_SDI MWD <8-3/4">(2873')(2814'-6876')

03_BH Lucida+SQC IFR1+SAG+FDIR <8-1/2">(6876')(6975'- 20276')

Landing Pt. @ 8020' MD

Final Survey @ 20276' MD

Projected MD at TD: 20301'

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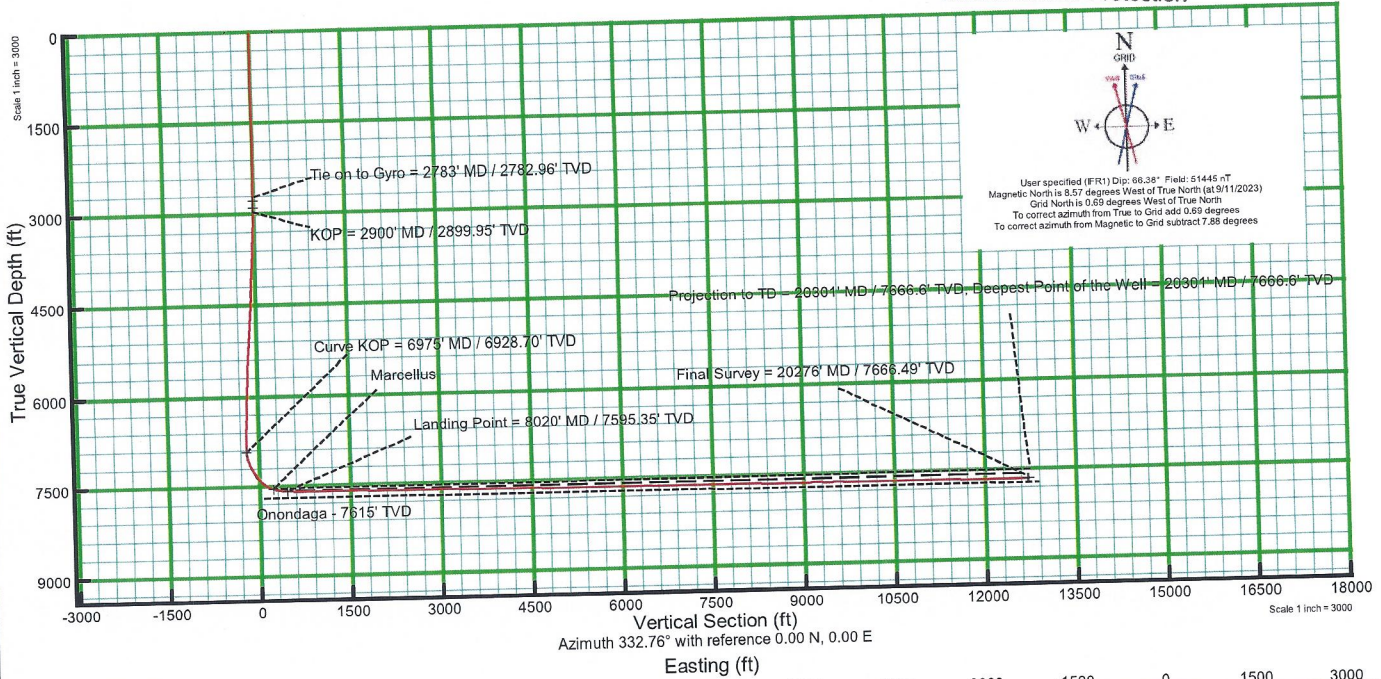


KB Elevation=1516 FT
 Ground Elevation=1488 FT
 All Survey Measurements were taken from KB Elevation APR 16 2024

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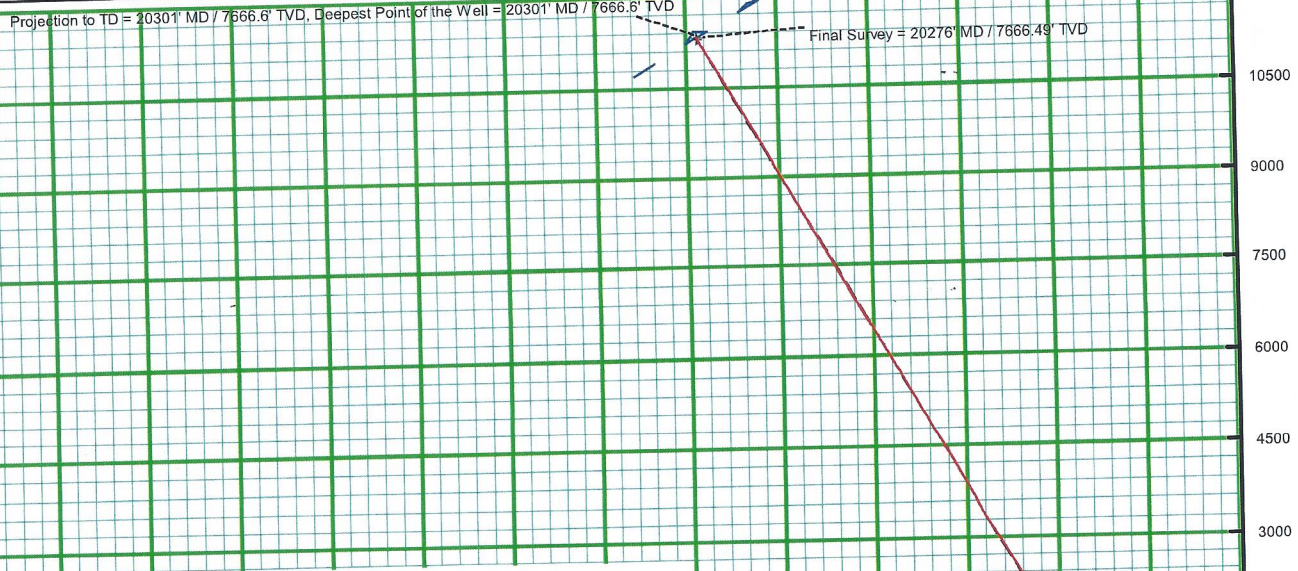


WV Department of
 Environmental Protection



Scale 1 inch = 3000
 Azimuth 332.76° with reference 0.00 N, 0.00 E
 Easting (ft)

Bottom Hole Location							
MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
20301.00	88.750	339.610	7666.60	11314.43	-5922.76	168874.28	424726.71
							Latitude
							Longitude
							39.630092
							-80.5827948



Landing Point							
MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
8020	88.58	330.45	7595.35	692.97	339.28	1695035.94	414108.89
							Latitude
							Longitude
							39.6319227
							-80.5827948

KOP							
MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
2900	1	78.59	2899.95	-3.52	13.51	1694710.19	413412.45
							Latitude
							Longitude
							39.63
							-80.5839215

Surface Location			
Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
1694696.88	413415.97	39.6300092	-80.5839696

07/19/2024