



Actual Wellpath Report

Curry 2H AWP Proj: 15987'
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REFERENCE WELLPATH IDENTIFICATION

Operator	CHEVRON APPALACHIA, LLC	Slot	Slot #02
Area	Marshall County, WV	Well	Curry 2H
Field	Marshall County	Wellbore	Curry 2H AWP
Facility	Curry Pad		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect@ 4.0.1
North Reference	True	User	jEdsaryar
Scale	0.999953	Report Generated	23/Nov/2015 at 12:08
Convergence at slot	n/a	Database/Source file	WA_MPL_EASTERNUS Defn/Curry 2H_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North [ft]	East [ft]	Easting [US ft]	Northing [US ft]	Latitude	Longitude
Slot Location	0.00	0.00	1641350.66	515647.75	39°54'35.555"N	80°39'58.560"W
Facility Reference Pt			1641350.66	515647.75	39°54'35.555"N	80°39'58.560"W
Field Reference Pt			1644569.15	516963.83	39°54'48.972"N	80°39'17.476"W

WELLPATH DATUM

Calculation method	Minimum curvature	Nabors X07 (RKB) to Facility Vertical Datum	32.00ft
Horizontal Reference Pt	Slot	Nabors X07 (RKB) to Mean Sea Level	1352.00ft
Vertical Reference Pt	Nabors X07 (RKB)	Nabors X07 (RKB) to Mud Line at Slot (Slot #02)	32.00ft
MD Reference Pt	Nabors X07 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	141.82°



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Facility	Curry Pad		

WELLPATH DATA (168 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	56.260	0.00	0.00	0.00	0.00	1641350.66	515647.75	39°54'35.555"N	80°39'58.560"W	0.00	0.000	0.00	0.00	0.00
32.00	0.000	56.260	32.00	0.00	0.00	0.00	1641350.66	515647.75	39°54'35.555"N	80°39'58.560"W	0.00	0.000	0.00	0.00	0.00
132.00	0.260	56.260	132.00	0.02	0.13	0.19	1641350.85	515647.87	39°54'35.557"N	80°39'58.557"W	0.23	56.260	0.26	0.26	0.00
232.00	0.260	75.710	232.00	0.13	0.31	0.60	1641351.26	515648.05	39°54'35.558"N	80°39'58.552"W	0.67	62.715	0.09	0.00	19.45
332.00	0.310	111.610	332.00	0.45	0.26	1.07	1641351.73	515648.00	39°54'35.558"N	80°39'58.546"W	1.10	76.102	0.18	0.05	35.90
432.00	0.230	110.800	432.00	0.86	0.09	1.51	1641352.17	515647.82	39°54'35.556"N	80°39'58.540"W	1.51	86.451	0.08	-0.08	-0.81
532.00	0.330	72.340	532.00	1.13	0.11	1.97	1641352.63	515647.83	39°54'35.557"N	80°39'58.534"W	1.97	86.815	0.21	0.10	-38.46
632.00	0.460	8.010	631.99	0.95	0.59	2.30	1641352.97	515648.31	39°54'35.561"N	80°39'58.530"W	2.38	75.509	0.43	0.13	-64.33
732.00	0.470	324.390	731.99	0.27	1.33	2.12	1641352.79	515649.05	39°54'35.569"N	80°39'58.533"W	2.50	57.953	0.35	0.01	-43.62
832.00	0.880	310.180	831.98	-0.90	2.15	1.29	1641351.98	515649.89	39°54'35.577"N	80°39'58.543"W	2.51	30.947	0.44	0.41	-14.21
876.00	0.730	324.400	875.98	-1.51	2.60	0.87	1641351.56	515650.34	39°54'35.581"N	80°39'58.549"W	2.74	18.508	0.57	-0.34	32.32
976.00	1.020	334.250	975.97	-3.01	3.92	0.11	1641350.82	515651.67	39°54'35.594"N	80°39'58.558"W	3.92	1.650	0.33	0.29	9.85
1055.00	0.610	289.120	1054.96	-4.05	4.69	-0.59	1641350.13	515652.45	39°54'35.602"N	80°39'58.567"W	4.73	352.832	0.93	-0.52	-57.13
1149.00	1.630	220.710	1148.94	-4.22	3.84	-1.93	1641348.78	515651.62	39°54'35.593"N	80°39'58.585"W	4.30	333.268	1.61	1.09	-72.78
1244.00	3.110	203.770	1243.86	-2.74	0.46	-3.85	1641346.81	515648.26	39°54'35.560"N	80°39'58.609"W	3.88	276.784	1.71	1.56	-17.83
1339.00	4.380	200.050	1338.66	0.38	-5.31	-6.14	1641344.45	515642.52	39°54'35.503"N	80°39'58.638"W	8.11	229.145	1.36	1.34	-3.92
1433.00	4.500	193.590	1432.37	4.55	-12.26	-8.23	1641342.27	515635.59	39°54'35.434"N	80°39'58.665"W	14.77	213.878	0.55	0.13	-6.87
1528.00	4.180	197.090	1527.10	8.83	-19.20	-10.13	1641340.28	515628.69	39°54'35.366"N	80°39'58.690"W	21.70	207.816	0.44	-0.34	3.68
1623.00	4.390	197.480	1621.84	12.85	-25.97	-12.24	1641338.09	515621.94	39°54'35.299"N	80°39'58.717"W	28.71	205.227	0.22	0.22	0.41
1717.00	4.670	197.120	1715.54	17.06	-33.06	-14.44	1641335.79	515614.88	39°54'35.229"N	80°39'58.745"W	36.08	203.600	0.30	0.30	-0.38
1812.00	3.740	191.040	1810.29	21.29	-39.80	-16.18	1641333.97	515608.17	39°54'35.162"N	80°39'58.767"W	42.96	202.119	1.08	-0.98	-6.40
1906.00	2.950	185.590	1904.13	25.04	-45.22	-17.00	1641333.08	515602.76	39°54'35.109"N	80°39'58.778"W	48.31	200.604	0.91	-0.84	-5.80
2001.00	3.320	176.650	1998.98	29.06	-50.39	-17.08	1641332.93	515597.58	39°54'35.057"N	80°39'58.779"W	53.21	198.719	0.64	0.39	-9.41
2095.00	3.350	173.110	2092.83	33.64	-55.84	-16.59	1641333.35	515592.13	39°54'35.004"N	80°39'58.773"W	58.25	196.545	0.22	0.03	-3.77
2158.00	3.150	166.040	2155.72	36.79	-59.35	-15.95	1641333.94	515588.62	39°54'34.969"N	80°39'58.764"W	61.45	195.043	0.71	-0.32	-11.22
2301.00	2.210	161.790	2298.57	42.97	-65.78	-14.14	1641335.67	515582.16	39°54'34.905"N	80°39'58.741"W	67.28	192.132	0.67	-0.66	-2.97
2396.00	1.860	162.050	2393.51	46.13	-68.98	-13.09	1641336.67	515578.94	39°54'34.874"N	80°39'58.728"W	70.22	190.746	0.37	-0.37	0.27
2489.00	1.420	159.840	2486.47	48.65	-71.50	-12.23	1641337.50	515576.42	39°54'34.849"N	80°39'58.717"W	72.54	189.706	0.48	-0.47	-2.38
2583.00	1.030	150.300	2580.45	50.59	-73.33	-11.41	1641338.30	515574.58	39°54'34.831"N	80°39'58.706"W	74.21	188.844	0.47	-0.41	-10.15
2678.00	0.730	139.880	2675.43	52.04	-74.53	-10.60	1641339.10	515573.36	39°54'34.819"N	80°39'58.696"W	75.28	188.092	0.36	-0.32	-10.97



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Area	Marshall County, WV	Well	Curry 2H
Field	Marshall County	Wellbore	Curry 2H AWB
Facility	Curry Pad		

WELLPATH DATA (168 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]
2773.00	0.410	111.710	2770.43	52.94	-75.12	-9.89	1641339.80	515572.77	39°54'34.813"N	80°39'58.687"W	75.77	187.501	0.44	-0.34	-29.65
2868.00	0.660	62.560	2865.43	53.33	-75.00	-9.09	1641340.60	515572.88	39°54'34.814"N	80°39'58.676"W	75.54	186.911	0.53	0.26	-51.74
2962.00	0.490	16.630	2959.42	53.20	-74.36	-8.49	1641341.20	515573.51	39°54'34.821"N	80°39'58.669"W	74.84	186.517	0.51	-0.18	-48.86
3057.00	0.730	0.680	3054.42	52.50	-73.37	-8.37	1641341.34	515574.50	39°54'34.830"N	80°39'58.667"W	73.84	186.509	0.31	0.25	-16.79
3152.00	0.830	350.630	3149.41	51.42	-72.08	-8.48	1641341.25	515575.75	39°54'34.843"N	80°39'58.668"W	72.58	186.706	0.18	0.11	-10.58
3246.00	0.760	6.070	3243.40	50.38	-70.79	-8.52	1641341.22	515577.08	39°54'34.856"N	80°39'58.669"W	71.30	186.863	0.24	-0.07	16.43
3341.00	0.800	340.410	3338.39	49.30	-69.54	-8.68	1641341.08	515578.33	39°54'34.868"N	80°39'58.671"W	70.08	187.112	0.37	0.04	-27.01
3436.00	0.610	324.680	3433.38	48.17	-68.50	-9.19	1641340.58	515579.38	39°54'34.878"N	80°39'58.678"W	69.12	187.642	0.28	-0.20	-16.56
3530.00	0.680	301.670	3527.38	47.14	-67.80	-9.96	1641339.83	515580.09	39°54'34.885"N	80°39'58.687"W	68.53	188.353	0.28	0.07	-24.48
3624.00	0.700	308.290	3621.37	46.06	-67.15	-10.88	1641338.91	515580.75	39°54'34.892"N	80°39'58.699"W	68.03	189.203	0.09	0.02	7.04
3719.00	0.620	295.390	3716.36	45.04	-66.57	-11.80	1641338.00	515581.34	39°54'34.898"N	80°39'58.711"W	67.61	190.051	0.18	-0.08	-13.58
3813.00	0.890	300.100	3810.36	43.90	-65.99	-12.89	1641336.91	515581.94	39°54'34.903"N	80°39'58.725"W	67.24	191.054	0.29	0.29	5.01
3908.00	0.860	297.190	3905.35	42.57	-65.29	-14.16	1641335.65	515582.65	39°54'34.910"N	80°39'58.741"W	66.81	192.239	0.06	-0.03	-3.06
4003.00	0.660	299.910	4000.34	41.41	-64.69	-15.27	1641334.55	515583.26	39°54'34.916"N	80°39'58.756"W	66.47	193.283	0.21	-0.21	2.86
4098.00	0.740	312.350	4095.33	40.30	-64.01	-16.20	1641333.63	515583.96	39°54'34.923"N	80°39'58.768"W	66.03	194.203	0.18	0.08	13.09
4192.00	0.520	308.300	4189.32	39.29	-63.33	-16.98	1641332.86	515584.64	39°54'34.930"N	80°39'58.778"W	65.57	195.011	0.24	-0.23	-4.31
4287.00	0.550	318.460	4284.32	38.41	-62.73	-17.62	1641332.22	515585.26	39°54'34.936"N	80°39'58.786"W	65.16	195.694	0.10	0.03	10.69
4382.00	0.540	319.470	4379.32	37.51	-62.04	-18.22	1641331.64	515585.95	39°54'34.942"N	80°39'58.793"W	64.66	196.363	0.01	-0.01	1.06
4476.00	0.800	328.490	4473.31	36.42	-61.15	-18.85	1641331.02	515586.85	39°54'34.951"N	80°39'58.802"W	63.99	197.131	0.30	0.28	9.60
4571.00	0.630	322.040	4568.30	35.24	-60.17	-19.52	1641330.37	515587.84	39°54'34.961"N	80°39'58.810"W	63.26	197.970	0.20	-0.18	-6.79
4665.00	0.430	299.430	4662.30	34.39	-59.59	-20.14	1641329.75	515588.43	39°54'34.967"N	80°39'58.818"W	62.90	198.675	0.30	-0.21	-24.05
4760.00	0.870	300.820	4757.29	33.39	-59.05	-21.07	1641328.83	515588.99	39°54'34.972"N	80°39'58.830"W	62.69	199.639	0.46	0.46	1.46
4854.00	0.960	312.510	4851.28	31.95	-58.15	-22.26	1641327.64	515589.90	39°54'34.981"N	80°39'58.845"W	62.26	200.951	0.22	0.10	12.44
4949.00	0.710	312.800	4946.27	30.58	-57.21	-23.28	1641326.64	515590.85	39°54'34.990"N	80°39'58.858"W	61.77	202.145	0.26	-0.26	0.31
4995.00	0.780	325.760	4992.27	29.99	-56.76	-23.67	1641326.26	515591.31	39°54'34.995"N	80°39'58.863"W	61.50	202.636	0.40	0.15	28.17
5031.00	0.720	322.310	5028.26	29.52	-56.38	-23.94	1641325.99	515591.69	39°54'34.998"N	80°39'58.867"W	61.25	203.012	0.21	-0.17	-9.58
5126.00	5.440	245.140	5123.11	27.88	-57.80	-28.40	1641321.52	515590.33	39°54'34.984"N	80°39'58.924"W	64.40	206.166	5.61	4.97	-81.23
5221.00	11.770	244.270	5217.11	24.75	-63.90	-41.23	1641308.61	515584.39	39°54'34.924"N	80°39'59.089"W	76.05	212.827	6.66	6.66	-0.92
5315.00	15.820	232.150	5308.28	22.61	-75.94	-59.99	1641289.69	515572.60	39°54'34.805"N	80°39'59.330"W	96.77	218.310	5.27	4.31	-12.89
5410.00	21.790	235.000	5398.17	21.55	-94.01	-84.68	1641264.77	515554.85	39°54'34.626"N	80°39'59.646"W	126.53	222.012	6.36	6.28	3.00



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5505.00	28.040	232.230	5484.29	20.42	-117.83	-1116.81	1641232.34	515531.46	39°54'34.391"N	80°40'00.059"W	165.91	224.752	6.69	6.58	-2.92
5599.00	36.410	229.670	5563.75	21.31	-149.47	-155.61	1641193.13	515500.32	39°54'34.078"N	80°40'00.557"W	215.77	226.153	9.02	8.90	-2.72
5694.00	44.170	228.990	5636.16	24.00	-189.50	-202.15	1641146.07	515460.90	39°54'33.683"N	80°40'01.154"W	277.08	226.851	8.18	8.17	-0.72
5789.00	51.470	228.440	5699.90	27.83	-235.93	-255.00	1641092.63	515415.16	39°54'33.224"N	80°40'01.832"W	347.40	227.225	7.70	7.68	-0.58
5882.00	51.460	227.420	5757.84	32.77	-284.67	-309.00	1641038.00	515367.13	39°54'32.742"N	80°40'02.525"W	420.15	227.347	0.86	-0.01	-1.10
5977.00	51.470	227.560	5817.03	38.38	-334.89	-363.78	1640982.58	515317.63	39°54'32.246"N	80°40'03.228"W	494.46	227.368	0.12	0.01	0.15
6072.00	51.350	228.970	5876.28	42.98	-384.31	-419.19	1640926.53	515268.93	39°54'31.757"N	80°40'03.939"W	568.70	227.485	1.17	-0.13	1.48
6166.00	51.500	232.290	5934.91	44.51	-430.92	-475.99	1640869.14	515223.07	39°54'31.297"N	80°40'04.668"W	642.07	227.845	2.77	0.16	3.53
6261.00	51.460	234.370	5994.07	42.55	-475.30	-535.60	1640808.96	515179.46	39°54'30.858"N	80°40'05.433"W	716.09	228.414	1.71	-0.04	2.19
5356.00	51.470	234.100	6053.26	39.42	-518.73	-595.90	1640748.11	515136.82	39°54'30.429"N	80°40'06.207"W	790.05	228.960	0.22	0.01	-0.28
6451.00	51.380	233.760	6112.50	36.68	-562.46	-655.93	1640687.51	515093.88	39°54'29.997"N	80°40'06.977"W	864.07	229.387	0.30	-0.09	-0.36
6545.00	51.540	232.780	6171.06	34.82	-606.43	-714.86	1640628.03	515050.68	39°54'29.562"N	80°40'07.733"W	937.43	229.691	0.83	0.17	-1.04
6640.00	53.520	221.120	6228.98	41.30	-657.82	-769.72	1640572.51	515000.01	39°54'29.054"N	80°40'08.437"W	1012.52	229.482	9.95	2.08	-12.27
6734.00	55.080	205.850	6284.05	65.29	-721.22	-811.54	1640529.87	514937.16	39°54'28.428"N	80°40'08.974"W	1085.71	228.372	13.28	1.66	-16.24
6828.00	55.750	198.480	6337.45	103.56	-792.82	-840.68	1640499.80	514865.95	39°54'27.720"N	80°40'09.348"W	1155.56	226.678	6.49	0.71	-7.84
6923.00	56.160	189.820	6390.71	151.60	-869.03	-859.88	1640479.61	514790.00	39°54'26.967"N	80°40'09.594"W	1222.54	224.697	7.56	0.43	-9.12
7017.00	61.390	179.570	6439.51	210.50	-948.97	-866.25	1640472.21	514710.15	39°54'26.177"N	80°40'09.676"W	1284.88	222.391	10.85	5.56	-10.90
7112.00	66.610	172.670	6481.19	281.02	-1034.05	-860.36	1640476.99	514625.01	39°54'25.336"N	80°40'09.600"W	1345.17	219.762	8.53	5.49	-7.26
7207.00	70.980	163.780	6515.60	360.27	-1120.60	-842.22	1640494.01	514538.23	39°54'24.481"N	80°40'09.367"W	1401.81	216.928	9.86	4.60	-9.36
7301.00	76.770	157.840	6541.72	445.60	-1205.78	-812.50	1640522.62	514452.68	39°54'23.639"N	80°40'08.986"W	1453.98	213.973	8.65	6.16	-6.32
7396.00	80.980	157.270	6560.04	535.30	-1291.92	-776.91	1640557.08	514366.09	39°54'22.788"N	80°40'08.529"W	1507.53	211.021	4.47	4.43	-0.60
7490.00	84.360	153.440	6572.04	625.92	-1376.62	-738.04	1640594.85	514280.89	39°54'21.951"N	80°40'08.030"W	1561.98	208.197	5.41	3.60	-4.07
7585.00	90.550	147.220	6576.26	719.69	-1459.00	-691.10	1640640.72	514197.92	39°54'21.137"N	80°40'07.428"W	1614.40	205.346	9.23	6.52	-6.55
7680.00	90.460	142.010	6575.42	814.54	-1536.42	-636.11	1640694.69	514119.79	39°54'20.372"N	80°40'06.722"W	1662.89	202.490	5.48	-0.09	-5.48
7775.00	89.140	136.830	6575.75	909.42	-1608.54	-574.33	1640755.53	514046.87	39°54'19.659"N	80°40'05.929"W	1708.00	199.649	5.63	-1.39	-5.45
7869.00	89.660	134.310	6576.74	1002.85	-1675.66	-508.54	1640820.44	513978.91	39°54'18.996"N	80°40'05.085"W	1751.13	196.882	2.74	0.55	-2.68
7964.00	88.510	133.710	6577.43	1096.96	-1741.66	-440.21	1640887.90	513912.03	39°54'18.343"N	80°40'04.208"W	1796.44	194.185	0.65	-0.16	-0.63
8058.00	88.580	137.560	6578.99	1190.39	-1808.84	-374.51	1640952.72	513844.01	39°54'17.680"N	80°40'03.365"W	1847.20	191.697	4.21	-0.99	4.10
8153.00	87.910	137.730	6581.90	1285.09	-1879.01	-310.53	1641015.78	513773.02	39°54'16.986"N	80°40'02.544"W	1904.50	189.384	0.73	-0.71	0.18
8248.00	88.830	141.070	6584.61	1379.95	-1951.10	-248.75	1641076.62	513700.14	39°54'16.274"N	80°40'01.752"W	1966.89	187.265	3.65	0.97	3.52



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	CHEVRON APPALACHIA, LLC	Slot	Slot #02
Area	Marshall County, WV	Well	Curry 2H
Field	Marshall County	Wellbore	Curry 2H AWB
Facility	Curry Pad		

WELLPATH DATA (168 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]
8342.00	89.480	142.610	6585.99	1473.94	-2025.00	-190.67	1641133.72	513623.49	39°54'15.543"N	80°40'01.006"W	2033.96	183.379	1.78	0.69	1.64
8437.00	89.540	142.620	6586.80	1568.92	-2100.48	-133.00	1641190.42	513549.27	39°54'14.797"N	80°40'00.266"W	2104.69	183.623	0.06	0.06	0.01
8532.00	89.480	142.370	6587.62	1663.91	-2175.85	-175.16	1641247.27	513473.17	39°54'14.053"N	80°39'59.524"W	2177.14	181.978	0.27	-0.06	-0.26
8625.00	88.980	139.610	6588.87	1756.89	-2248.10	-16.63	1641304.85	513400.17	39°54'13.339"N	80°39'58.773"W	2248.16	180.424	3.02	-0.54	-2.97
8720.00	89.320	139.260	6590.28	1851.79	-2320.26	45.14	1641365.68	513327.22	39°54'12.626"N	80°39'57.980"W	2320.70	178.385	0.51	0.36	-0.37
8814.00	89.260	141.840	6591.44	1945.76	-2392.83	104.86	1641424.44	513253.88	39°54'11.908"N	80°39'57.214"W	2395.13	177.491	2.75	-0.06	2.74
8909.00	89.170	144.150	6592.74	2040.72	-2468.68	162.03	1641480.62	513177.29	39°54'11.159"N	80°39'56.481"W	2473.99	176.245	2.43	-0.09	2.43
9004.00	88.680	144.690	6594.53	2135.61	-2545.93	217.29	1641534.88	513099.34	39°54'10.395"N	80°39'55.771"W	2555.19	175.122	0.77	-0.52	0.57
9098.00	88.680	145.040	6596.69	2229.45	-2622.79	271.38	1641587.95	513021.79	39°54'09.636"N	80°39'55.078"W	2636.79	174.093	0.37	0.00	0.37
9193.00	88.770	145.750	6598.80	2324.24	-2700.96	325.32	1641640.87	512942.93	39°54'08.863"N	80°39'54.385"W	2720.48	173.132	0.75	0.09	0.75
9288.00	89.200	145.140	6600.49	2419.03	-2779.19	379.19	1641693.72	512864.01	39°54'08.090"N	80°39'53.694"W	2804.94	172.231	0.79	0.45	-0.64
9383.00	89.200	144.260	6601.81	2513.90	-2856.71	434.08	1641747.60	512785.79	39°54'07.324"N	80°39'52.990"W	2889.50	171.360	0.93	0.00	-0.93
9477.00	89.380	145.120	6602.98	2607.78	-2933.41	488.41	1641800.92	512708.39	39°54'06.566"N	80°39'52.293"W	2973.79	170.347	0.93	0.19	0.91
9572.00	89.380	145.280	6604.01	2702.61	-3011.42	542.62	1641854.12	512629.69	39°54'05.795"N	80°39'51.597"W	3059.91	169.786	0.17	0.00	0.17
9666.00	89.510	143.850	6604.92	2796.49	-3088.00	597.12	1641907.61	512552.41	39°54'05.038"N	80°39'50.898"W	3145.20	169.056	1.53	0.14	-1.52
9760.00	89.350	143.310	6605.85	2890.44	-3163.64	652.92	1641962.43	512476.06	39°54'04.291"N	80°39'50.182"W	3230.31	168.339	0.60	-0.17	-0.57
9854.00	89.480	140.890	6606.81	2984.43	-3237.80	710.66	1642019.19	512401.16	39°54'03.558"N	80°39'49.441"W	3314.87	167.621	2.58	0.14	-2.57
9949.00	89.450	142.770	6607.70	3079.42	-3312.48	769.36	1642076.92	512325.72	39°54'02.820"N	80°39'48.688"W	3400.65	166.924	1.98	-0.03	1.98
10043.00	89.420	141.870	6608.63	3173.41	-3386.87	826.82	1642133.40	512250.60	39°54'02.085"N	80°39'47.951"W	3486.33	166.281	0.96	-0.03	-0.96
10138.00	89.080	138.150	6609.87	3268.34	-3459.64	887.85	1642193.49	512177.05	39°54'01.365"N	80°39'47.168"W	3571.75	165.607	3.93	-0.36	-3.92
10233.00	89.200	135.910	6611.30	3362.99	-3529.14	952.60	1642257.32	512106.72	39°54'00.679"N	80°39'46.337"W	3655.44	164.895	2.36	0.13	-2.36
10328.00	89.200	137.280	6612.62	3457.58	-3598.15	1017.87	1642321.68	512036.87	39°54'00.000"N	80°39'45.499"W	3739.35	164.205	1.44	0.00	1.44
10422.00	89.110	139.040	6614.01	3551.38	-3668.17	1080.56	1642383.46	511966.04	39°53'59.305"N	80°39'44.695"W	3824.01	163.586	1.87	-0.10	1.87
10517.00	89.050	139.590	6615.53	3646.28	-3740.20	1142.48	1642444.44	511893.22	39°53'58.593"N	80°39'43.901"W	3910.80	163.014	0.58	-0.06	0.58
10612.00	89.170	139.080	6617.01	3741.17	-3812.25	1204.38	1642505.39	511820.37	39°53'57.881"N	80°39'43.106"W	3997.97	162.467	0.55	0.13	-0.54
10706.00	89.140	142.550	6618.40	3835.13	-3885.09	1263.76	1642563.82	511746.77	39°53'57.161"N	80°39'42.345"W	4085.46	161.981	3.69	-0.03	3.69
10801.00	89.110	143.280	6619.85	3930.11	-3960.87	1321.03	1642620.10	511670.26	39°53'56.412"N	80°39'41.610"W	4175.36	161.555	0.77	-0.03	0.77
10895.00	89.140	143.890	6621.28	4024.05	-4036.50	1376.83	1642674.91	511593.91	39°53'55.664"N	80°39'40.894"W	4264.86	161.166	0.65	0.03	0.65
10989.00	89.200	142.930	6622.64	4118.00	-4111.97	1432.85	1642729.95	511517.73	39°53'54.919"N	80°39'40.175"W	4354.46	160.789	1.02	0.06	-1.02
11084.00	89.600	141.070	6623.64	4212.99	-4186.82	1491.34	1642787.45	511442.13	39°53'54.179"N	80°39'39.425"W	4444.50	160.394	2.00	0.42	-1.96



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REFERENCE WELLPATH IDENTIFICATION

Operator	CHEVRON APPALACHIA, LLC	Slot	Slot #02
Area	Marshall County, WV	Well	Curry 2H
Field	Marshall County	Wellbore	Curry 2H AWB
Facility	Curry Pad		

WELLPATH DATA (168 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]
11179.00	89.720	141.100	6624.20	4307.98	-4260.74	1551.01	1642846.16	511367.45	39°53'53.448"N	80°39'38.659"W	4534.26	159.997	0.13	0.13	0.03
11273.00	89.880	142.480	6624.53	4401.98	-4334.60	1609.15	1642903.33	511292.84	39°53'52.718"N	80°39'37.913"W	4623.65	159.633	1.48	0.17	1.47
11368.00	89.910	141.740	6624.71	4496.98	-4409.57	1667.50	1642960.69	511217.12	39°53'51.977"N	80°39'37.165"W	4714.32	159.286	0.78	0.03	-0.78
11463.00	89.230	143.380	6625.42	4591.96	-4484.99	1725.25	1643017.46	511140.96	39°53'51.232"N	80°39'36.424"W	4805.38	158.960	1.87	-0.72	1.73
11557.00	89.420	146.040	6626.53	4685.83	-4561.71	1779.54	1643070.75	511063.55	39°53'50.474"N	80°39'35.727"W	4896.52	158.689	2.84	0.20	2.83
11652.00	88.980	147.570	6627.85	4780.46	-4641.19	1831.55	1643121.72	510983.40	39°53'49.688"N	80°39'35.060"W	4989.51	158.464	1.68	-0.46	1.61
11747.00	88.980	147.790	6629.54	4874.95	-4721.46	1882.33	1643171.45	510902.48	39°53'48.895"N	80°39'34.409"W	5082.85	158.264	0.23	0.00	0.23
11841.00	88.550	146.950	6631.57	4968.48	-4800.61	1933.00	1643221.09	510822.69	39°53'48.113"N	80°39'33.759"W	5175.17	158.067	1.00	-0.46	-0.89
11936.00	87.440	147.300	6634.89	5063.02	-4880.34	1984.54	1643271.58	510742.29	39°53'47.325"N	80°39'33.097"W	5268.41	157.871	1.23	-1.17	0.37
12030.00	86.860	146.030	6639.57	5156.56	-4958.81	2036.09	1643322.11	510663.17	39°53'46.549"N	80°39'32.436"W	5360.54	157.677	1.43	-0.62	-1.29
12125.00	87.880	145.380	6643.93	5251.23	-5037.23	2089.52	1643374.51	510584.06	39°53'45.774"N	80°39'31.751"W	5453.42	157.471	1.31	1.071	-0.75
12220.00	88.920	143.160	6646.58	5346.10	-5114.32	2144.97	1643428.95	510506.27	39°53'45.012"N	80°39'31.039"W	5545.91	157.247	2.58	1.09	-2.34
12314.00	89.050	139.600	6648.25	5440.07	-5187.74	2203.62	1643486.65	510432.10	39°53'44.287"N	80°39'30.287"W	5636.36	156.985	3.79	0.14	-3.79
12409.00	89.480	140.040	6649.46	5535.01	-5260.31	2264.91	1643546.98	510358.74	39°53'43.569"N	80°39'29.501"W	5727.19	156.705	0.65	0.45	0.46
12504.00	89.510	143.490	6650.30	5629.99	-5334.92	2323.69	1643604.79	510283.38	39°53'42.832"N	80°39'28.747"W	5819.01	156.464	3.65	0.03	3.63
12599.00	89.480	140.550	6651.14	5724.97	-5409.79	2382.14	1643662.26	510207.76	39°53'42.092"N	80°39'27.997"W	5911.04	156.234	3.09	-0.03	-3.09
12693.00	89.380	137.360	6652.07	5818.84	-5480.67	2443.86	1643723.05	510136.09	39°53'41.392"N	80°39'27.205"W	6000.85	155.968	3.40	-0.11	-3.39
12788.00	89.170	135.050	6653.28	5913.37	-5549.23	2509.60	1643787.89	510066.68	39°53'40.714"N	80°39'26.362"W	6090.33	155.666	2.44	-0.22	-2.43
12883.00	89.170	134.670	6654.65	6007.66	-5616.24	2576.93	1643854.34	509998.81	39°53'40.052"N	80°39'25.498"W	6179.21	155.353	0.40	0.00	-0.40
12977.00	89.140	136.000	6656.04	6101.04	-5683.08	2643.00	1643919.53	509931.11	39°53'39.391"N	80°39'24.650"W	6267.61	155.059	1.42	-0.03	1.41
13072.00	89.170	136.390	6657.44	6195.58	-5751.64	2708.75	1643984.39	509861.72	39°53'38.713"N	80°39'23.807"W	6357.57	154.782	0.41	0.03	0.41
13261.00	89.140	138.560	6660.23	6384.00	-5890.90	2836.48	1644110.29	509720.81	39°53'37.337"N	80°39'22.168"W	6538.22	154.289	1.15	-0.02	1.15
13356.00	88.920	139.610	6661.84	6478.88	-5962.68	2898.69	1644171.56	509648.23	39°53'36.628"N	80°39'21.370"W	6629.93	154.074	1.13	-0.23	1.11
13450.00	88.920	140.590	6663.61	6572.82	-6034.78	2958.97	1644230.90	509575.36	39°53'35.915"N	80°39'20.597"W	6721.17	153.880	1.04	0.00	1.04
13545.00	88.860	139.960	6665.45	6667.77	-6107.83	3019.67	1644290.65	509501.53	39°53'35.193"N	80°39'19.818"W	6813.52	153.693	0.67	-0.06	-0.66
13639.00	88.950	141.230	6667.24	6761.72	-6180.45	3079.33	1644349.35	509428.15	39°53'34.475"N	80°39'19.053"W	6905.09	153.516	1.35	0.10	1.35
13733.00	88.920	142.920	6668.99	6855.70	-6254.58	3137.10	1644406.15	509353.28	39°53'33.743"N	80°39'18.312"W	6997.23	153.363	1.80	-0.03	1.80
13828.00	88.650	144.710	6671.01	6950.62	-6331.24	3193.17	1644461.22	509275.90	39°53'33.985"N	80°39'17.593"W	7090.90	153.236	1.91	-0.28	1.88
13922.00	88.610	146.060	6673.25	7044.41	-6408.58	3246.55	1644513.59	509197.88	39°53'32.221"N	80°39'16.908"W	7184.01	153.133	1.44	-0.04	1.44
14017.00	88.620	145.580	6675.55	7139.15	-6487.15	3299.90	1644565.91	509118.63	39°53'31.444"N	80°39'16.224"W	7278.22	153.038	0.51	0.01	-0.51



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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #02
CHEVRON APPALACHIA, LLC	Well	Curry 2H
Area	Wellbore	Curry 2H AWB
Field		
Facility		

WELLPATH DATA (168 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]
14111.00	88.650	145.590	6677.79	7232.92	-6564.67	3353.02	1644618.01	509040.43	39°53'30.678"N	80°39'15.542"W	7371.40	152.944	0.03	0.03	0.01
14206.00	88.920	144.410	6679.80	7327.75	-6642.47	3407.49	1644671.47	508961.93	39°53'29.909"N	80°39'14.844"W	7463.48	152.843	1.27	0.28	-1.24
14301.00	89.200	143.060	6681.36	7422.68	-6719.06	3463.68	1644726.66	508884.63	39°53'29.152"N	80°39'14.123"W	7559.28	152.729	1.45	0.29	-1.42
14490.00	89.140	142.810	6684.10	7611.63	-6869.85	3577.58	1644838.59	508732.37	39°53'27.662"N	80°39'12.662"W	7745.58	152.491	0.14	-0.03	-0.13
14584.00	89.320	142.680	6685.36	7705.61	-6944.67	3634.48	1644894.51	508656.83	39°53'26.922"N	80°39'11.932"W	7838.23	152.375	0.24	0.19	-0.14
14679.00	89.380	142.900	6686.44	7800.59	-7020.32	3691.93	1644950.96	508580.44	39°53'26.174"N	80°39'11.195"W	7931.91	152.261	0.24	0.06	0.23
14773.00	89.320	140.930	6687.51	7894.58	-7094.30	3749.90	1645007.97	508505.72	39°53'25.443"N	80°39'10.452"W	8024.39	152.140	2.10	-0.06	-2.10
14868.00	89.480	141.830	6688.50	7989.57	-7168.52	3809.19	1645066.29	508430.74	39°53'24.710"N	80°39'09.691"W	8117.73	152.015	0.96	0.17	0.95
14963.00	89.170	143.580	6689.62	8084.55	-7244.08	3866.75	1645122.86	508354.44	39°53'23.963"N	80°39'08.953"W	8211.49	151.908	1.87	-0.33	1.84
15058.00	89.110	142.990	6691.05	8179.50	-7326.23	3923.54	1645178.65	508277.56	39°53'23.210"N	80°39'08.224"W	8305.41	151.809	0.62	-0.06	-0.62
15152.00	89.170	143.810	6692.46	8273.46	-7395.69	3979.57	1645233.70	508201.39	39°53'22.464"N	80°39'07.506"W	8398.40	151.716	0.87	0.06	0.87
15247.00	89.170	143.530	6693.83	8368.40	-7472.21	4035.85	1645288.97	508124.15	39°53'21.708"N	80°39'06.784"W	8492.47	151.626	0.29	0.00	-0.29
15341.00	89.230	142.460	6695.15	8462.37	-7547.27	4092.42	1645344.56	508048.36	39°53'20.966"N	80°39'06.058"W	8585.41	151.532	1.14	0.06	-1.14
15435.00	89.110	140.100	6696.51	8556.35	-7620.60	4151.21	1645402.39	507974.28	39°53'20.242"N	80°39'05.304"W	8677.90	151.421	2.51	-0.13	-2.51
15623.00	89.140	140.940	6699.38	8744.27	-7765.69	4270.73	1645520.01	507827.66	39°53'18.807"N	80°39'03.771"W	8862.56	151.191	0.45	0.02	0.45
15716.00	89.140	139.690	6700.78	8837.23	-7837.25	4330.10	1645578.45	507755.34	39°53'18.100"N	80°39'03.010"W	8953.89	151.079	1.34	0.00	-1.34
15905.00	89.140	142.220	6703.61	9026.17	-7984.00	4449.14	1645695.56	507607.06	39°53'16.650"N	80°39'01.483"W	9139.98	150.871	1.34	0.00	1.34
15987.00	89.140	142.220	6704.84	9108.16	-8048.81	4499.37	1645744.95	507541.61	39°53'16.009"N	80°39'00.839"W	9221.04	150.794	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Curry 2H AWB Ref Wellpath: Curry 2H AWP Proj: 15987

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
30in Conductor	32.00	112.00	80.00	32.00	112.00	0.00	0.00	0.08	0.12
20in Casing Surface	32.00	574.00	542.00	32.00	573.99	0.00	0.00	0.24	2.16
13.375in Casing Intermediate	32.00	930.00	898.00	32.00	929.97	0.00	0.00	3.24	0.47



Actual Wellpath Report

Curry 2H AWP Proj: 15987

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REFERENCE WELLPATH IDENTIFICATION

Operator	CHEVRON APPALACHIA, LLC	Slot #02
Area	Marshall County, WV	Curry 2H
Field	Marshall County	Curry 2H AWB
Facility	Curry Pad	

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Curry 2H LP Plat		6579.00	-1410.52	-724.72	1640607.73	514246.83	39°54'21.616"N	80°40'07.859"W	point
Curry 2H BHL Plat		6652.72	-8051.06	4496.45	1645742.00	507539.39	39°53'15.987"N	80°39'00.876"W	point
Curry Pad Revised Buffer		6900.00	0.00	0.00	1641350.66	515647.75	39°54'35.555"N	80°39'58.560"W	polygon
Curry Pad Revised LL		7000.00	0.00	0.00	1641350.66	515647.75	39°54'35.555"N	80°39'58.560"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: Curry 2H AWB Ref Wellpath: Curry 2H AWP Proj: 15987

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
32.00	876.00	Generic gyro - northseeking (Standard)	01_Gyrodata MS Gyro <17-1/2"> (100'-844')	Curry 2H AWB
876.00	2158.00	NaviTrak (MagCorr)	02_BHI MWD <12-1/4"> (876')(976'-2158') Proj:2222'	Curry 2H AWB
2158.00	4995.00	NaviTrak (MagCorr)	03_BHI MWD <8-1/2"> (2158')(2301'-4995')	Curry 2H AWB
4995.00	15905.00	NaviTrak (AT Curve Short Spaced)	04_BHI AT Curve <8-1/2"> (4995')(5031'-15905')	Curry 2H AWB
15905.00	15987.00	Blind Drilling (std)	Projection to bit	Curry 2H AWB



Actual Wellpath Report

Curry 2H AWP Proj: 15987'

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REFERENCE WELLPATH IDENTIFICATION

Operator	CHEVRON APPALACHIA, LLC	Slot	Slot #02
Area	Marshall County, WV	Well	Curry 2H
Field	Marshall County	Wellbore	Curry 2H AWB
Facility	Curry Pad		

COMMENTS

Wellpath general comments

API: 47-051-01779-0000
 BHI Job #: 7596804
 Rig: Nabors X07
 Duration: 11/12/2015-11/20/2015
 Gyrodatta MS Gyro <17-1/2"> (100'-844')
 BHI MWD <12-1/4"> (876')(976'-2158')
 BHI MWD <8-1/2"> (2158')(2301'-4955')
 BHI AT Curve <8-1/2"> (4995')(5031'-15905')
 Projected MD at TD: 15987'