

ACTUAL WELLPATH REPORT (CSV version)

Prepared by Baker Hughes

Software System: WellArchitect® 5.1

REFERENCE WELLPATH IDENTIFICATION

Operator CHEVRON APPALACHIA, LLC

Area Marshall County, WV

Field Marshall County

Facility Taylor C Pad

Slot Slot #01

Well Taylor C 1H

Wellbore Taylor C 1H AWB

Wellpath Taylor C 1H AWP Proj: 15865'

Sidetrack (none)

REPORT SETUP INFORMATION

Projection NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet

North Refe TRUE

Scale 0.999948

Convergen 0.77° West

Software S WellArchitect® 5.1

User Edsaryar

Report Ger 08/Feb/2018 at 20:10

Database/\\WA\_MPL\_EASTERNUS\_Defn/ev590.xml

WELLPATH Local North Local East Easting Northing Latitude Longitude

[ft]

[ft]

[US ft]

[US ft]

Slot Locatic	0	0	1632317	494612.4	39°51'06.51"80°41'50.889"W
Facility Ref			1632317	494612.4	39°51'06.51"80°41'50.889"W
Field Refer			1644569	516963.8	39°54'48.9 80°39'17.476"W

WELLPATH DATUM

Calculation Minimum curvature

Horizontal Slot

Vertical Re Precision 560 (RKB)

MD Refere Precision 560 (RKB)

Field Vertic Mean Sea Level

Precision 5 25.00ft

Precision 5 1260.00ft

Precision 5 25.00ft

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Section Ori N 0.00, E 0.00 ft  
 Section Azi 320.47°

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05/03/2019

WELL PATH DATA + = interpolated/extrapolated station

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure	Dis Closure	Dir DLS	Build Rate	Turn Rate
(ft)	[°]	[°]	(ft)	(ft)	(ft)	(ft)	[US ft]	[US ft]			(ft)	[°]	[°/100ft]	[°/100ft]	[°/100ft]
0	0	25.96	0	0	0	0	1632317	494612.4	39°51'06.5"80°41'50.8"		0	0	0	0	0
25	0	25.96	25	0	0	0	1632317	494612.4	39°51'06.5"80°41'50.8"		0	0	0	0	0
58.33	0.41	25.96	58.33	0.05	0.11	0.05	1632317	494612.5	39°51'06.5"80°41'50.8"		0.12	25.96	1.23	1.23	77.89
83.33	0.35	14.44	83.33	0.13	0.26	0.11	1632317	494612.6	39°51'06.5"80°41'50.8"		0.28	22.881	0.39	-0.24	-46.08
108.33	0.29	45.32	108.33	0.18	0.38	0.17	1632317	494612.8	39°51'06.5"80°41'50.8"		0.42	24.655	0.72	-0.24	123.52
133.33	0.44	99.89	133.33	0.11	0.41	0.31	1632317	494612.8	39°51'06.5"80°41'50.8"		0.51	37.579	1.44	0.6	218.28
158.33	0.9	126.71	158.33	-0.15	0.27	0.57	1632317	494612.7	39°51'06.5"80°41'50.8"		0.63	64.153	2.18	1.84	107.28
183.33	1.03	127.15	183.32	-0.56	0.02	0.9	1632317	494612.4	39°51'06.5"80°41'50.8"		0.9	88.661	0.52	0.52	1.76
208.33	0.76	142.98	208.32	-0.94	-0.25	1.18	1632318	494612.1	39°51'06.5"80°41'50.8"		1.21	101.808	1.45	-1.08	63.32
233.33	0.5	150.83	233.32	-1.22	-0.47	1.33	1632318	494611.9	39°51'06.5"80°41'50.8"		1.42	109.579	1.09	-1.04	31.4
258.33	0.28	151.35	258.32	-1.38	-0.62	1.42	1632318	494611.7	39°51'06.4"80°41'50.8"		1.55	113.751	0.88	-0.88	2.08
283.33	0.18	155.35	283.32	-1.48	-0.71	1.46	1632318	494611.7	39°51'06.4"80°41'50.8"		1.63	115.983	0.4	-0.4	16
308.33	0.21	167.77	308.32	-1.56	-0.79	1.49	1632318	494611.6	39°51'06.4"80°41'50.8"		1.69	118.052	0.21	0.12	49.68
333.33	0.28	173.58	333.32	-1.65	-0.9	1.51	1632318	494611.5	39°51'06.4"80°41'50.8"		1.75	120.841	0.3	0.28	23.24
358.33	0.26	197.29	358.32	-1.73	-1.01	1.5	1632318	494611.4	39°51'06.4"80°41'50.8"		1.81	124.135	0.45	-0.08	94.84
383.33	0.3	229.84	383.32	-1.77	-1.11	1.43	1632318	494611.3	39°51'06.4"80°41'50.8"		1.81	127.853	0.65	0.16	130.2
408.33	0.3	244.34	408.32	-1.75	-1.18	1.32	1632318	494611.2	39°51'06.4"80°41'50.8"		1.77	131.824	0.3	0	58
433.33	0.23	237.61	433.32	-1.73	-1.24	1.22	1632318	494611.1	39°51'06.4"80°41'50.8"		1.73	135.418	0.31	-0.28	-26.92
458.33	0.15	260.73	458.32	-1.71	-1.27	1.14	1632318	494611.1	39°51'06.4"80°41'50.8"		1.71	137.961	0.44	-0.32	92.48
483.33	0.15	295.89	483.32	-1.66	-1.26	1.08	1632318	494611.1	39°51'06.4"80°41'50.8"		1.66	139.336	0.36	0	140.64
508.33	0.09	249.27	508.32	-1.62	-1.25	1.03	1632318	494611.1	39°51'06.4"80°41'50.8"		1.62	140.447	0.44	-0.24	-186.48
527.33	0.07	231.39	527.32	-1.62	-1.26	1.01	1632318	494611.1	39°51'06.4"80°41'50.8"		1.62	141.358	0.17	-0.11	-94.11
606.33	0.13	300.52	606.32	-1.53	-1.25	0.9	1632317	494611.1	39°51'06.4"80°41'50.8"		1.54	144.347	0.16	0.08	87.51
637.33	0.1	284.26	637.32	-1.48	-1.22	0.84	1632317	494611.1	39°51'06.4"80°41'50.8"		1.48	145.568	0.14	-0.1	-52.45
668.33	0.08	319.2	668.32	-1.43	-1.2	0.8	1632317	494611.2	39°51'06.4"80°41'50.8"		1.44	146.373	0.18	-0.06	112.71
699.33	0	351.32	699.32	-1.41	-1.18	0.78	1632317	494611.2	39°51'06.4"80°41'50.8"		1.42	146.482	0.26	-0.26	131.61
731.33	0.03	306.53	731.32	-1.41	-1.18	0.78	1632317	494611.2	39°51'06.4"80°41'50.8"		1.41	146.598	0.09	0.09	-167.09
759.33	0	351.32	759.32	-1.4	-1.18	0.77	1632317	494611.2	39°51'06.4"80°41'50.8"		1.41	146.7	0.11	-0.11	190.96
790.33	0.09	64.08	790.32	-1.4	-1.16	0.79	1632317	494611.2	39°51'06.4"80°41'50.8"		1.41	145.719	0.29	0.29	206.71
821.33	0.17	298.67	821.32	-1.37	-1.13	0.78	1632317	494611.2	39°51'06.4"80°41'50.8"		1.37	145.586	0.75	0.26	-404.55
852.33	0.36	268.63	852.32	-1.26	-1.11	0.64	1632317	494611.3	39°51'06.4"80°41'50.8"		1.28	150.17	0.74	0.61	-96.9
883.33	0.97	251.65	883.31	-1.11	-1.2	0.29	1632317	494611.2	39°51'06.4"80°41'50.8"		1.23	166.322	2.05	1.97	-54.77
915.33	1.43	255.68	915.31	-0.84	-1.38	-0.35	1632316	494611.39	39°51'06.4"80°41'50.8"		1.43	194.322	1.46	1.44	12.59

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946.33	2.04	257.92	946.29	-0.42	-1.59	-1.27	1632315	494610.8	39°51'06.4	80°41'50.9	2.03	218.508	1.98	1.97	7.23
977.33	2.45	261.54	977.27	0.17	-1.81	-2.46	1632314	494610.6	39°51'06.4	80°41'50.9	3.05	233.747	1.4	1.32	11.68
1008.33	3.01	262.69	1008.23	0.95	-2.01	-3.92	1632313	494610.4	39°51'06.4	80°41'50.9	4.41	242.923	1.81	1.81	3.71
1039.33	3.45	262.4	1039.18	1.88	-2.23	-5.66	1632311	494610.2	39°51'06.4	80°41'50.9	6.08	248.455	1.42	1.42	-0.94
1070.33	4.02	268.61	1070.12	3.04	-2.38	-7.67	1632309	494610.1	39°51'06.4	80°41'50.9	8.03	252.735	2.25	1.84	20.03
1102.33	4.46	272.75	1102.03	4.57	-2.35	-10.03	1632307	494610.2	39°51'06.4	80°41'51.0	10.3	256.813	1.67	1.38	12.94
1133.33	5.14	277.09	1132.92	6.39	-2.12	-12.61	1632304	494610.4	39°51'06.4	80°41'51.0	12.79	260.454	2.49	2.19	14
1164.33	5.27	280.19	1163.79	8.49	-1.7	-15.39	1632301	494610.9	39°51'06.4	80°41'51.0	15.49	263.705	1	0.42	10
1195.33	5.09	282.08	1194.67	10.65	-1.16	-18.14	1632298	494611.5	39°51'06.4	80°41'51.1	18.18	266.346	0.8	-0.58	6.1
1226.33	4.21	282.02	1225.56	12.62	-0.63	-20.6	1632296	494612	39°51'06.4	80°41'51.1	20.61	268.238	2.84	-2.84	-0.19
1257.33	3.76	277.73	1256.49	14.26	-0.26	-22.72	1632294	494612.4	39°51'06.5	80°41'51.1	22.72	269.345	1.74	-1.45	-13.84
1289.33	3.69	276.05	1288.42	15.76	-0.01	-24.78	1632292	494612.7	39°51'06.5	80°41'51.2	24.78	269.976	0.41	-0.22	-5.25
1320.33	3.7	273.64	1319.36	17.16	0.16	-26.77	1632290	494612.9	39°51'06.5	80°41'51.2	26.77	270.339	0.5	0.03	-7.77
1351.33	3.58	272.11	1350.29	18.49	0.26	-28.74	1632288	494613	39°51'06.5	80°41'51.2	28.74	270.513	0.5	-0.39	-4.94
1382.33	3.66	267.56	1381.23	19.73	0.25	-30.69	1632286	494613	39°51'06.5	80°41'51.2	30.69	270.469	0.96	0.26	-14.68
1413.33	3.74	268.25	1412.17	20.94	0.18	-32.69	1632284	494613	39°51'06.5	80°41'51.3	32.69	270.312	0.3	0.26	2.23
1444.33	3.31	265.75	1443.11	22.08	0.08	-34.59	1632282	494612.9	39°51'06.5	80°41'51.3	34.59	270.134	1.47	-1.39	-8.06
1475.33	2.84	270.98	1474.06	23.1	0.03	-36.25	1632280	494612.9	39°51'06.5	80°41'51.3	36.25	270.044	1.76	-1.52	16.87
1506.33	2.09	277.42	1505.04	24.01	0.11	-37.58	1632279	494613	39°51'06.5	80°41'51.3	37.58	270.173	2.58	-2.42	20.77
1537.33	1.87	290.27	1536.02	24.86	0.36	-38.62	1632278	494613.3	39°51'06.5	80°41'51.3	38.62	270.537	1.59	-0.71	41.45
1568.33	1.79	310.3	1567	25.77	0.85	-39.46	1632277	494613.8	39°51'06.5	80°41'51.3	39.47	271.235	2.07	-0.26	64.61
1599.33	1.75	324.51	1597.99	26.72	1.55	-40.11	1632276	494614.5	39°51'06.5	80°41'51.4	40.14	272.212	1.42	-0.13	45.84
1631.33	1.59	333.33	1629.97	27.64	2.34	-40.59	1632276	494615.3	39°51'06.5	80°41'51.4	40.66	273.305	0.94	-0.5	27.56
1662.33	1.34	356.29	1660.96	28.35	3.09	-40.8	1632276	494616	39°51'06.5	80°41'51.4	40.92	274.33	2.04	-0.81	74.06
1693.33	1.19	20.78	1691.96	28.81	3.75	-40.71	1632276	494616.7	39°51'06.5	80°41'51.4	40.89	275.266	1.79	-0.48	79
1725.33	1.19	45.06	1723.95	29	4.3	-40.36	1632276	494617.2	39°51'06.5	80°41'51.4	40.59	276.078	1.56	0	75.88
1756.33	1.36	54.04	1754.94	29.01	4.74	-39.84	1632277	494617.7	39°51'06.5	80°41'51.4	40.12	276.787	0.84	0.55	28.97
1788.33	1.38	55.11	1786.93	28.96	5.18	-39.21	1632277	494618.1	39°51'06.5	80°41'51.3	39.55	277.532	0.1	0.06	3.34
1819.33	1.21	69.61	1817.93	28.82	5.51	-38.6	1632278	494618.4	39°51'06.5	80°41'51.3	38.99	278.127	1.19	-0.55	46.77
1850.33	0.81	104.3	1848.92	28.53	5.57	-38.08	1632279	494618.5	39°51'06.5	80°41'51.3	38.49	278.325	2.3	-1.29	111.9
1912.33	1.07	156.11	1910.91	27.62	4.93	-37.42	1632279	494617.8	39°51'06.5	80°41'51.3	37.74	277.512	1.38	0.42	83.56
1975.33	1.41	161.17	1973.9	26.33	3.66	-36.93	1632280	494616.5	39°51'06.5	80°41'51.3	37.11	275.664	0.57	0.54	8.03
2037.33	0.74	208.79	2035.89	25.47	2.59	-36.88	1632280	494615.5	39°51'06.5	80°41'51.3	36.97	274.017	1.71	-1.08	76.81
2292	0.63	25.37	2290.55	25.46	2.41	-37.07	1632280	494615.3	39°51'06.5	80°41'51.3	37.15	273.726	0.54	-0.04	69.34
2381	1.87	318.83	2379.53	27.12	3.95	-37.82	1632279	494616.8	39°51'06.5	80°41'51.3	38.02	275.962	1.93	1.39	-74.76
2471	2.2	313.53	2469.48	30.3	6.24	-40.04	1632277	494619.2	39°51'06.5	80°41'51.4	40.52	278.865	0.42	0.37	-5.89
2560	1.81	313.72	2558.42	33.39	8.39	-42.29	1632274	494621.3	39°51'06.5	80°41'51.4	43.12	281.224	0.44	-0.44	0.21
2649	1.11	303.82	2647.39	35.61	9.84	-44.02	1632273	494622.8	39°51'06.6	80°41'51.4	45.11	282.604	0.83	-0.79	-11.12
2738	1	283.08	2736.38	37.05	10.5	-45.5	1632271	494623.5	39°51'06.6	80°41'51.4	46.69	282.995	0.44	-0.12	-23.3
2827	0.75	279.26	2825.37	38.11	10.77	-46.83	1632270	494623.8	39°51'06.6	80°41'51.4	48.05	282.951	0.29	-0.28	-4.29

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2917	0.84	285.94	2915.36	39.1	11.04	-48.04	1632269	494624.1	39°51'06.6	80°41'51.5	49.3	282.947	0.14	0.1	7.42
3006	0.87	264.23	3004.35	40.01	11.16	-49.34	1632267	494624.2	39°51'06.6	80°41'51.5	50.59	282.74	0.36	0.03	-24.39
3096	0.95	266.78	3094.34	40.83	11.05	-50.77	1632266	494624.1	39°51'06.6	80°41'51.5	51.95	282.274	0.1	0.09	2.83
3285	0.31	103.79	3183.33	41.08	10.95	-51.27	1632265	494624	39°51'06.6	80°41'51.5	52.43	282.052	1.4	-0.72	-183.13
3284	0.27	99.56	3272.33	40.72	10.85	-50.83	1632266	494623.9	39°51'06.6	80°41'51.5	51.98	282.054	0.05	-0.04	-4.75
3384	0.38	69.03	3362.33	40.47	10.93	-50.34	1632266	494624	39°51'06.6	80°41'51.5	51.51	282.245	0.22	0.12	-33.92
3493	0.3	105.41	3451.33	40.18	10.97	-49.84	1632267	494624	39°51'06.6	80°41'51.5	51.03	282.412	0.25	-0.09	40.88
3542	0.1	9.87	3540.33	40.04	10.98	-49.6	1632267	494624	39°51'06.6	80°41'51.5	50.8	282.486	0.37	-0.22	-107.35
3631	0.18	34.82	3629.33	40.13	11.18	-49.51	1632267	494624.2	39°51'06.6	80°41'51.5	50.76	282.72	0.11	0.09	28.03
3721	0.25	9.94	3719.33	40.3	11.48	-49.4	1632267	494624.5	39°51'06.6	80°41'51.5	50.71	283.089	0.13	0.08	-27.64
3810	0.37	339.74	3808.33	40.69	11.95	-49.46	1632267	494625	39°51'06.6	80°41'51.5	50.88	283.578	0.22	0.13	-33.93
3900	0.34	351.08	3898.33	41.2	12.48	-49.6	1632267	494625.5	39°51'06.6	80°41'51.5	51.15	284.124	0.08	-0.03	12.6
3989	0.31	6.15	3987.32	41.59	12.98	-49.62	1632267	494626	39°51'06.6	80°41'51.5	51.29	284.662	0.1	-0.03	16.93
4078	0.28	341.35	4076.32	41.97	13.43	-49.66	1632267	494626.5	39°51'06.6	80°41'51.5	51.45	285.13	0.15	-0.03	-27.87
4168	0.41	17.97	4166.32	42.34	13.94	-49.63	1632267	494627	39°51'06.6	80°41'51.5	51.55	285.69	0.28	0.14	40.69
4257	0.4	16.78	4255.32	42.69	14.54	-49.45	1632267	494627.6	39°51'06.6	80°41'51.5	51.54	286.389	0.01	-0.01	-1.34
4346	0.31	46.24	4344.32	42.88	15.01	-49.18	1632268	494628	39°51'06.6	80°41'51.5	51.42	286.968	0.23	-0.1	33.1
4436	0.33	28.64	4434.32	42.99	15.4	-48.88	1632268	494628.4	39°51'06.6	80°41'51.5	51.25	287.49	0.11	0.02	-19.56
4525	0.16	304.99	4523.32	43.21	15.7	-48.86	1632268	494628.7	39°51'06.6	80°41'51.5	51.32	287.812	0.39	-0.19	-93.99
4614	0.34	314.19	4612.31	43.59	15.95	-49.15	1632268	494629	39°51'06.6	80°41'51.5	51.68	287.983	0.21	0.2	10.34
4703	0.36	276.5	4701.31	44.05	16.17	-49.62	1632267	494629.2	39°51'06.6	80°41'51.5	52.19	288.05	0.25	0.02	-42.35
4793	0.47	311.72	4791.31	44.62	16.45	-50.18	1632267	494629.5	39°51'06.6	80°41'51.5	52.8	288.149	0.3	0.12	39.13
4882	0.47	286.79	4880.31	45.29	16.8	-50.8	1632266	494629.9	39°51'06.6	80°41'51.5	53.5	288.296	0.23	0	-28.01
4971	0.63	291.41	4969.3	46.02	17.08	-51.6	1632265	494630.2	39°51'06.6	80°41'51.5	54.36	288.314	0.19	0.18	5.19
5060	0.41	273.74	5058.3	46.66	17.28	-52.38	1632264	494630.4	39°51'06.6	80°41'51.5	55.15	288.258	0.3	-0.25	-19.85
5150	2.17	276.95	5148.27	48.12	17.51	-54.39	1632262	494630.6	39°51'06.6	80°41'51.5	57.14	287.842	1.96	1.96	3.57
5239	6.76	272.45	5236.98	52.85	17.93	-61.3	1632256	494631.1	39°51'06.6	80°41'51.6	63.87	286.308	5.17	5.16	-5.06
5284	8.95	271.25	5281.56	56.91	18.12	-67.44	1632249	494631.4	39°51'06.6	80°41'51.7	69.84	285.042	4.88	4.87	-2.67
5313	9.47	272.43	5310.18	59.97	18.27	-72.08	1632245	494631.6	39°51'06.6	80°41'51.8	74.36	284.226	1.91	1.79	4.07
5402	10.34	278.62	5397.86	70.82	19.78	-87.3	1632230	494633.3	39°51'06.7	80°41'52.0	89.51	282.768	1.54	0.98	6.96
5492	9.48	283.42	5486.51	82.75	22.71	-102.49	1632214	494636.5	39°51'06.7	80°41'52.2	104.98	282.495	1.32	-0.96	5.33
5581	10.34	285.86	5574.19	95.18	26.6	-117.3	1632200	494640.5	39°51'06.7	80°41'52.3	120.28	282.775	1.08	0.97	2.74
5670	10.4	286.49	5661.73	108.41	31.06	-132.69	1632184	494645.2	39°51'06.8	80°41'52.5	136.28	283.174	0.14	0.07	0.71
5760	10.3	287.29	5750.27	121.88	35.76	-148.16	1632169	494650.1	39°51'06.8	80°41'52.7	152.42	283.568	0.19	-0.11	0.89
5849	10.4	288.17	5837.82	135.33	40.63	-163.39	1632154	494655.2	39°51'06.9	80°41'52.9	168.37	283.963	0.21	0.11	0.99
5939	10.36	291.1	5926.35	149.25	46.07	-178.66	1632139	494660.8	39°51'06.9	80°41'53.1	184.51	284.461	0.59	-0.04	3.26
6028	10.27	290.42	6013.91	163.09	51.72	-193.56	1632124	494666.7	39°51'07.0	80°41'53.3	200.35	284.961	0.17	-0.1	-0.76
6118	14.01	296.55	6101.88	180	59.39	-210.83	1632107	494674.6	39°51'07.0	80°41'53.5	219.04	285.733	4.39	4.16	6.81
6207	20.6	305.25	6186.82	204.99	73.26	-233.28	1632084	494688.7	39°51'07.2	80°41'53.8	244.52	287.435	7.94	7.4	9.78
6297	29.62	307.43	6268.23	242.01	95.97	-263.94	1632054	494711.9	39°51'07.4	80°41'54.2	280.84	289.981	10.07	10.02	2.42

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6386	39.05	312.68	6341.66	291.34	128.42	-302.11	1632016	494744.8	39°51'07.7	80°41'54.7	328.27	293.029	11.1	10.6	5.9
6475	48.45	315	6405.88	352.4	171.07	-346.37	1631973	494788	39°51'08.1	80°41'55.3	386.31	296.285	10.71	10.56	2.61
6565	58.83	316.04	6459.17	424.51	222.74	-397.05	1631923	494840.4	39°51'08.7	80°41'55.9	455.26	299.292	11.57	11.53	1.16
6654	66.69	315.28	6499.87	503.3	279.28	-452.32	1631868	494897.7	39°51'09.2	80°41'56.6	531.6	301.692	8.86	8.83	-0.85
6744	74.46	317.67	6529.79	587.9	340.8	-510.7	1631810	494959.9	39°51'09.8	80°41'57.4	613.97	303.716	8.99	8.63	2.66
6833	84.64	320.31	6545.91	675.28	406.77	-568.02	1631754	495026.7	39°51'10.5	80°41'58.1	698.65	305.607	11.8	11.44	2.97
6922	89.97	321.7	6550.09	764.14	475.84	-623.94	1631699	495096.5	39°51'11.2	80°41'58.8	784.68	307.331	6.19	5.99	1.56
7012	90	321.99	6550.12	854.11	546.61	-679.54	1631644	495168	39°51'11.9	80°41'59.6	872.1	308.813	0.32	0.03	0.32
7101	90.06	322.8	6550.07	943.06	617.12	-733.85	1631591	495239.2	39°51'12.6	80°42'00.2	958.84	310.062	0.91	0.07	0.91
7190	90.15	323.69	6549.91	1031.96	688.43	-787.11	1631539	495311.2	39°51'13.3	80°42'00.9	1045.69	311.174	1.01	0.1	1
7280	90.03	322.75	6549.77	1121.85	760.51	-840.99	1631486	495384	39°51'14.0	80°42'01.6	1133.86	312.123	1.05	-0.13	-1.04
7369	89.97	320.62	6549.77	1210.83	830.34	-896.17	1631432	495454.5	39°51'14.7	80°42'02.3	1221.71	312.816	2.39	-0.07	-2.39
7459	90.06	322.05	6549.74	1300.81	900.61	-952.4	1631376	495525.6	39°51'15.4	80°42'03.1	1310.78	313.399	1.59	0.1	1.59
7548	89.6	319.95	6550.01	1389.8	969.77	-1008.4	1631321	495595.5	39°51'16.0	80°42'03.8	1399.04	313.881	2.42	-0.52	-2.36
7638	89.72	319.58	6550.54	1479.8	1038.47	-1066.53	1631264	495664.9	39°51'16.7	80°42'04.5	1488.6	314.236	0.43	0.13	-0.41
7727	90	319.32	6550.76	1568.78	1106.1	-1124.39	1631207	495733.3	39°51'17.4	80°42'05.3	1577.25	314.53	0.43	0.31	-0.29
7817	90.09	321.39	6550.69	1658.78	1175.4	-1181.81	1631151	495803.4	39°51'18.1	80°42'06.0	1666.8	314.844	2.3	0.1	2.3
7906	90.46	323.7	6550.26	1747.71	1246.04	-1235.93	1631097	495874.7	39°51'18.8	80°42'06.7	1755.04	315.233	2.63	0.42	2.6
7995	90.37	324.66	6549.62	1836.52	1318.21	-1288.02	1631046	495947.6	39°51'19.5	80°42'07.4	1843	315.664	1.08	-0.1	1.08
8085	90.86	327.05	6548.65	1926.11	1392.68	-1338.53	1630997	496022.7	39°51'20.2	80°42'08.0	1931.64	316.136	2.71	0.54	2.66
8174	90.74	326.34	6547.41	2014.58	1467.06	-1387.39	1630949	496097.7	39°51'21.0	80°42'08.6	2019.18	316.599	0.81	-0.13	-0.8
8264	90.89	320.55	6546.13	2104.41	1539.31	-1440.97	1630896	496170.7	39°51'21.7	80°42'09.3	2108.52	316.89	6.43	0.17	-6.43
8353	90.77	317.74	6544.84	2193.37	1606.62	-1499.17	1630839	496238.8	39°51'22.3	80°42'10.1	2197.44	316.981	3.16	-0.13	-3.16
8443	90.71	318.79	6543.67	2283.29	1673.77	-1559.08	1630780	496306.7	39°51'23.0	80°42'10.8	2287.41	317.032	1.17	-0.07	1.17
8532	90.4	319.56	6542.81	2372.26	1741.11	-1617.26	1630723	496374.8	39°51'23.7	80°42'11.6	2376.34	317.112	0.93	-0.35	0.87
8622	90.58	317.32	6542.04	2462.2	1808.45	-1676.96	1630664	496442.9	39°51'24.3	80°42'12.3	2466.31	317.161	2.5	0.2	-2.49
8711	90.18	315.33	6541.45	2550.96	1872.82	-1738.42	1630603	496508.1	39°51'25.0	80°42'13.1	2555.3	317.131	2.28	-0.45	-2.24
8801	90.12	313	6541.22	2640.41	1935.52	-1802.97	1630540	496571.7	39°51'25.6	80°42'14.0	2645.17	317.031	2.59	-0.07	-2.59
8890	89.97	313.97	6541.15	2728.75	1996.76	-1867.55	1630476	496633.8	39°51'26.2	80°42'14.8	2734.01	316.915	1.1	-0.17	1.09
8979	90.43	315.48	6540.83	2817.3	2059.39	-1930.78	1630414	496697.2	39°51'26.8	80°42'15.6	2822.94	316.846	1.77	0.52	1.7
9069	90.43	318.3	6540.16	2907.11	2125.09	-1992.27	1630353	496763.7	39°51'27.5	80°42'16.4	2912.93	316.848	3.13	0	3.13
9159	90.46	318.83	6539.46	2997.06	2192.56	-2051.83	1630294	496832	39°51'28.1	80°42'17.2	3002.89	316.899	0.59	0.03	0.59
9248	90.46	318.26	6538.75	3086	2259.26	-2110.75	1630236	496899.5	39°51'28.8	80°42'17.9	3091.85	316.946	0.64	0	-0.64
9338	92.12	318.24	6536.72	3175.91	2326.38	-2170.66	1630177	496967.4	39°51'29.4	80°42'18.7	3181.8	316.983	1.84	1.84	-0.02
9428	91.08	314.32	6534.21	3265.61	2391.39	-2232.83	1630116	497033.2	39°51'30.1	80°42'19.5	3271.74	316.964	4.5	-1.16	-4.36
9517	90.98	316.18	6532.61	3354.23	2454.58	-2295.47	1630054	497097.2	39°51'30.7	80°42'20.3	3360.68	316.919	2.09	-0.11	2.09
9607	90.58	320.39	6531.38	3444.13	2521.74	-2355.34	1629995	497165.2	39°51'31.4	80°42'21.0	3450.63	316.954	4.7	-0.44	4.68
9696	91.85	322.29	6529.49	3533.1	2591.22	-2410.92	1629941	497235.4	39°51'32.1	80°42'21.8	3539.35	317.064	2.57	1.43	2.13
9785	92.15	322.25	6526.39	3622	2661.57	-2465.35	1629887	497306.4	39°51'32.8	80°42'22.5	3627.94	317.192	0.34	0.34	-0.04
9875	91.88	320.77	6523.22	3711.93	2731.97	-2521.33	1629832	497377.6	39°51'33.5	80°42'23.2	3717.63	317.296	1.67	-0.3	-1.64

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9964	90.71	320.57	6521.21	3800.9	2800.79	-2577.72	1629777	497447.1	39°51'34.1	80°42'23.9	3806.45	317.375	1.33	-1.31	-0.22
10053	90.71	322.16	6520.11	3889.88	2870.3	-2633.28	1629722	497517.4	39°51'34.8	80°42'24.6	3895.23	317.466	1.79	0	1.79
10143	90.22	323.26	6519.38	3979.81	2941.9	-2687.81	1629668	497589.7	39°51'35.5	80°42'25.3	3984.86	317.584	1.34	-0.54	1.22
10212	89.97	325.15	6519.23	4068.61	3014.09	-2739.86	1629617	497662.6	39°51'36.2	80°42'26.0	4073.28	317.729	2.14	-0.28	2.12
10291	89.97	324.79	6519.28	4157.34	3086.97	-2790.95	1629567	497736.1	39°51'37.0	80°42'26.6	4161.58	317.883	0.4	0	-0.4
10451	90.55	326.14	6518.87	4246.99	3161.1	-2841.97	1629517	497810.9	39°51'37.7	80°42'27.3	4250.81	318.043	1.63	0.64	1.5
10580	89.94	325.77	6518.49	4335.58	3234.85	-2891.79	1629468	497885.3	39°51'38.4	80°42'27.9	4338.98	318.205	0.8	-0.69	-0.42
10590	89.91	325.47	6518.61	4425.22	3309.13	-2942.61	1629418	497960.3	39°51'39.2	80°42'28.6	4428.24	318.355	0.33	-0.03	-0.33
10679	90.03	324.24	6518.65	4513.96	3381.9	-2993.85	1629368	498033.7	39°51'39.9	80°42'29.2	4516.68	318.483	1.39	0.13	-1.38
10768	90.12	324.29	6518.54	4602.76	3454.14	-3045.82	1629317	498106.6	39°51'40.6	80°42'29.9	4605.23	318.595	0.12	0.1	0.06
10858	89.97	322.12	6518.46	4692.66	3526.21	-3099.73	1629264	498179.4	39°51'41.3	80°42'30.6	4694.94	318.683	2.42	-0.17	-2.41
10948	89.85	318.46	6518.61	4782.64	3595.43	-3157.22	1629208	498249.4	39°51'42.0	80°42'31.3	4784.89	318.713	4.07	-0.13	-4.07
11037	90.37	318.44	6518.44	4871.58	3662.04	-3216.25	1629150	498316.8	39°51'42.6	80°42'32.1	4873.89	318.708	0.58	0.58	-0.02
11127	90.62	317.23	6517.66	4961.48	3728.74	-3276.66	1629090	498384.3	39°51'43.3	80°42'32.9	4963.87	318.692	1.37	0.28	-1.34
11216	90.62	316.97	6516.69	5050.32	3793.94	-3337.24	1629030	498450.3	39°51'43.9	80°42'33.6	5052.83	318.664	0.29	0	-0.29
11306	90.95	320.03	6515.46	5140.25	3861.33	-3396.86	1628972	498518.4	39°51'44.6	80°42'34.4	5142.81	318.661	3.42	0.37	3.4
11395	91.08	323.3	6513.88	5229.21	3931.12	-3452.05	1628917	498589	39°51'45.3	80°42'35.1	5231.67	318.713	3.68	0.15	3.67
11485	91.05	321.42	6512.21	5319.14	4002.37	-3507	1628863	498660.9	39°51'46.0	80°42'35.8	5321.47	318.774	2.09	-0.03	-2.09
11574	90.8	321.54	6510.77	5408.11	4072	-3562.42	1628809	498731.3	39°51'46.7	80°42'36.5	5410.36	318.819	0.31	-0.28	0.13
11663	90.86	324.72	6509.48	5497	4143.18	-3615.81	1628756	498803.2	39°51'47.4	80°42'37.2	5499.09	318.888	3.57	0.07	3.57
11753	90.95	326.73	6508.06	5586.6	4217.54	-3666.49	1628707	498878.2	39°51'48.1	80°42'37.9	5588.45	318.998	2.24	0.1	2.23
11842	90.95	323.06	6506.59	5675.31	4290.32	-3717.65	1628657	498951.6	39°51'48.9	80°42'38.5	5676.96	319.09	4.12	0	-4.12
11932	90.71	322.37	6505.28	5765.23	4361.92	-3772.17	1628603	499024	39°51'49.6	80°42'39.2	5766.77	319.147	0.81	-0.27	-0.77
12021	90.65	322.15	6504.23	5854.18	4432.3	-3826.64	1628550	499095.1	39°51'50.3	80°42'39.9	5855.63	319.194	0.26	-0.07	-0.25
12111	90.71	317.4	6503.16	5944.14	4500.99	-3884.74	1628492	499164.5	39°51'50.9	80°42'40.7	5945.6	319.203	5.28	0.07	-5.28
12201	90.83	316.21	6501.95	6033.95	4566.6	-3946.33	1628432	499230.9	39°51'51.6	80°42'41.4	6035.51	319.167	1.33	0.13	-1.32
12290	91.17	315.2	6500.4	6122.63	4630.29	-4008.48	1628370	499295.4	39°51'52.2	80°42'42.2	6124.33	319.117	1.2	0.38	-1.13
12380	90.49	315.03	6499.09	6212.22	4694.05	-4071.98	1628308	499360	39°51'52.8	80°42'43.1	6214.11	319.059	0.78	-0.76	-0.19
12470	90.55	316.83	6498.27	6301.93	4758.71	-4134.58	1628246	499425.5	39°51'53.5	80°42'43.9	6303.97	319.014	2	0.07	2
12560	90.65	322.77	6497.33	6391.88	4827.41	-4192.64	1628189	499495	39°51'54.2	80°42'44.6	6393.91	319.025	6.6	0.11	6.6
12649	90.74	321.8	6496.25	6480.83	4897.81	-4247.08	1628135	499566.1	39°51'54.9	80°42'45.3	6482.76	319.07	1.09	0.1	-1.09
12739	90.95	320.68	6494.92	6570.81	4967.98	-4303.42	1628080	499637	39°51'55.5	80°42'46.0	6572.69	319.1	1.27	0.23	-1.24
12828	91.32	316.85	6493.16	6659.74	5034.89	-4362.06	1628022	499704.7	39°51'56.2	80°42'46.8	6661.65	319.095	4.32	0.42	-4.3
12918	91.26	315.79	6491.13	6749.48	5099.96	-4424.2	1627961	499770.6	39°51'56.9	80°42'47.6	6751.53	319.058	1.18	-0.07	-1.18
13007	91.26	316.76	6489.18	6838.22	5164.26	-4485.7	1627900	499835.7	39°51'57.5	80°42'48.4	6840.4	319.022	1.09	0	1.09
13097	90.8	314.69	6487.56	6927.89	5228.69	-4548.51	1627838	499900.9	39°51'58.1	80°42'49.2	6930.23	318.979	2.36	-0.51	-2.3
13186	90.77	313.9	6486.34	7016.36	5290.83	-4612.21	1627776	499963.9	39°51'58.7	80°42'50.0	7018.93	318.92	0.89	-0.03	-0.89
13276	90.58	318.06	6485.28	7106.06	5355.53	-4674.73	1627714	500029.5	39°51'59.4	80°42'50.8	7108.79	318.883	4.63	-0.21	4.62
13365	90.62	322.51	6484.35	7195.03	5423.97	-4731.58	1627658	500098.6	39°52'00.1	80°42'51.5	7197.73	318.9	5	0.04	5
13455	90.65	320.31	6483.35	7285.01	5494.31	-4787.71	1627603	500169.7	39°52'00.7	80°42'52.2	7287.64	318.931	2.44	0.03	-2.44

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13544	90.74	319.09	6482.27	7373.99	5562.18	-4845.27	1627546	500238.4	39°52'01.4"	80°42'53.0"	7376.62	318.941	1.37	0.1	-1.37
13634	90.8	318.68	6481.06	7463.95	5629.98	-4904.45	1627488	500306.9	39°52'02.1"	80°42'53.7"	7466.61	318.94	0.46	0.07	-0.46
13724	90.77	317.42	6479.83	7553.86	5696.91	-4964.61	1627429	500374.7	39°52'02.8"	80°42'54.5"	7556.59	318.929	1.4	-0.03	-1.4
13813	90.68	316.87	6478.7	7642.7	5762.15	-5025.13	1627369	500440.7	39°52'03.4"	80°42'55.3"	7645.54	318.909	0.63	-0.1	-0.62
13903	90.55	320.12	6477.74	7732.63	5829.54	-5084.76	1627310	500508.9	39°52'04.1"	80°42'56.1"	7735.52	318.904	3.61	-0.14	3.61
13993	90.92	321.85	6476.58	7822.62	5899.45	-5141.41	1627255	500579.5	39°52'04.8"	80°42'56.8"	7825.45	318.928	1.97	0.41	1.92
14082	90.83	318.84	6475.22	7911.6	5967.96	-5198.2	1627199	500648.8	39°52'05.4"	80°42'57.5"	7914.4	318.944	3.38	-0.1	-3.38
14172	90.55	319.77	6474.14	8001.57	6036.19	-5256.87	1627141	500717.8	39°52'06.1"	80°42'58.3"	8004.4	318.948	1.08	-0.31	1.03
14262	90.8	324.13	6473.08	8091.51	6107.04	-5312.33	1627086	500789.4	39°52'06.8"	80°42'59.0"	8094.25	318.981	4.85	0.28	4.84
14351	90.71	324.41	6471.9	8180.31	6179.28	-5364.3	1627035	500862.3	39°52'07.5"	80°42'59.6"	8182.86	319.038	0.33	-0.1	0.31
14441	90.71	322.74	6470.79	8270.17	6251.69	-5417.73	1626983	500935.4	39°52'08.2"	80°43'00.3"	8272.57	319.088	1.86	0	-1.86
14530	90.71	321.95	6469.69	8359.11	6322.15	-5472.1	1626930	501006.6	39°52'08.9"	80°43'01.0"	8361.42	319.122	0.89	0	-0.89
14620	90.31	319.55	6468.88	8449.1	6391.84	-5529.03	1626874	501077	39°52'09.6"	80°43'01.8"	8451.38	319.14	2.7	-0.44	-2.67
14709	90.22	320.21	6468.47	8538.09	6459.89	-5586.38	1626817	501145.8	39°52'10.3"	80°43'02.5"	8540.37	319.147	0.75	-0.1	0.74
14799	90.4	318.44	6467.99	8628.07	6528.15	-5645.04	1626759	501214.8	39°52'11.0"	80°43'03.2"	8630.36	319.149	1.98	0.2	-1.97
14888	90.43	313.99	6467.34	8716.8	6592.38	-5706.61	1626699	501279.9	39°52'11.6"	80°43'04.0"	8719.22	319.119	5	0.03	-5
14978	90.37	311.31	6466.71	8805.95	6653.35	-5772.79	1626633	501341.7	39°52'12.2"	80°43'04.9"	8808.65	319.053	2.98	-0.07	-2.98
15068	90.4	309.19	6466.11	8894.52	6711.5	-5841.48	1626565	501400.8	39°52'12.8"	80°43'05.8"	8897.59	318.965	2.36	0.03	-2.36
15157	90.37	304.6	6465.51	8981.01	6764.91	-5912.64	1626495	501455.1	39°52'13.3"	80°43'06.7"	8984.62	318.846	5.16	-0.03	-5.16
15247	90.37	301.06	6464.93	9066.76	6813.7	-5988.25	1626420	501504.9	39°52'13.8"	80°43'07.6"	9071.14	318.689	3.93	0	-3.93
15337	90.46	303.84	6464.28	9152.33	6861.98	-6064.19	1626345	501554.2	39°52'14.3"	80°43'08.6"	9157.57	318.532	3.09	0.1	3.09
15426	90.46	304.42	6463.56	9237.74	6911.92	-6137.85	1626272	501605.1	39°52'14.8"	80°43'09.6"	9243.8	318.395	0.65	0	0.65
15515	90.92	303.97	6462.49	9323.16	6961.93	-6211.46	1626199	501656.1	39°52'15.3"	80°43'10.5"	9330.1	318.261	0.72	0.52	-0.51
15605	90.65	306.38	6461.26	9409.96	7013.77	-6285.02	1626126	501708.9	39°52'15.8"	80°43'11.4"	9417.77	318.137	2.69	-0.3	2.68
15694	91.08	306.1	6459.91	9496.22	7066.38	-6356.79	1626055	501762.5	39°52'16.3"	80°43'12.4"	9504.87	318.026	0.58	0.48	-0.31
15784	91.17	309.01	6458.15	9583.92	7121.22	-6428.12	1625984	501818.3	39°52'16.8"	80°43'13.3"	9593.35	317.928	3.23	0.1	3.23
15865	91.17	309.01	6456.49	9663.29	7172.19	-6491.04	1625922	501870.1	39°52'17.3"	80°43'14.1"	9673.37	317.854	0	0	0

HOLE AND CASING SECTIONS Ref Wellbore: Taylor C 1H AWB Ref Wellpath: Taylor C 1H AWP Proj: 15865'

String/Diag Start MD End MD Interval Start TVD End TVD Start N/S Start E/W End N/S End E/W

17.5in Ope	25	558	533	25	557.99	0	0	-1.28	0.98
13.375in C	25	558	533	25	557.99	0	0	-1.28	0.98
12.25in Op	558	2260	1702	557.99	2258.55	-1.28	0.98	2.14	-37.2
9.625in Cai	25	2205	2180	25	2203.55	0	0	1.87	-37.32
8.5in Open	2260	15865	13605	2258.55	6456.49	2.14	-37.2	7172.19	-6491.04
5.5in Casin	25	15865	15840	25	6456.49	0	0	7172.19	-6491.04

T A R G E T S

Name TVD North East Grid East Grid North Latitude Longitude Shape Comment

	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]
Taylor C 1F	6444.85	7177.06	-6485.96	1625927	501874.9	39°52'17.4
Taylor C 1F	6459.93	6418.1	-5522.7	1626880	501103.2	39°52'09.9
Taylor C 1F	6544	479.38	-622.42	1631701	495100	39°51'11.2
Taylor C LL	7008.93	0	0	1632317	494612.4	39°51'06.5
Taylor C LL	7008.93	0	0	1632317	494612.4	39°51'06.5
Taylor C LL	7008.93	0	0	1632317	494612.4	39°51'06.5

WELLPATH COMPOSITION Ref Wellbore: Taylor C 1H AWB Ref Wellpath: Taylor C 1H AWP Proj: 15865'

Log Name/ Start MD	End MD	Pos Unc Model
01_Gyroda	25	527.33 BHI Generic gyro - northseeking (Standard)
02_APS EN	527.33	2037.33 BHI Navitrak (Axial)
03_BH Nav	2037.33	5284 Navitrak (Magcorr+IFR1)
04_BH AT	5284	15784 BHI AutoTrak Curve (IFR1, Short)
Projection	15784	15865 Blind Drilling (std)

**C O M M E N T S**

Wellpath general comments

API: 47-051-01800-0000

BH Job #: 8935133

Rig: Precision 560

Duration: 1/26/2018-2/5/2018

Gyrodada MS Gyro <17-1/2> (50'-519)''

APS EM <12-1/4> (519)(598'-2029)''

BH Navitrak+IFR <8-1/2> (2037.33)(2292'-5284)''

BH AT Curve+IFR <8-1/2> (5284)(5313'-15784)''

Projected MD at TD: 15865'

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APR 15 2019