

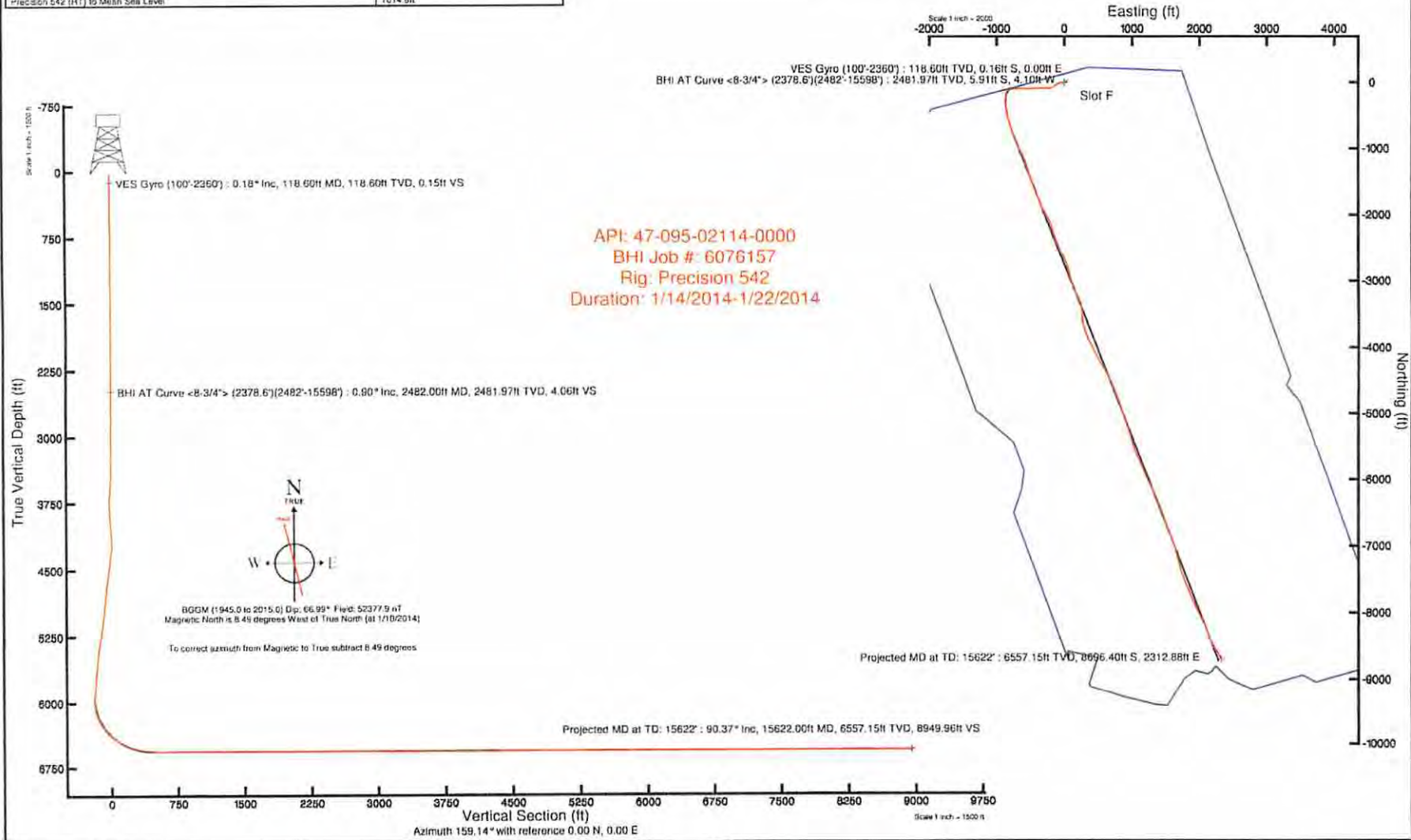
Location: Tyler County, WV  
 Field: Tyler  
 Facility: SHR 1 Pad

Slot: Slot F  
 Well: SHR1FHS  
 Wellbore: SHR1FHS PWB

**Location Information**

Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude		
SHR 1 Pad	1619639.130	336008.769	39°24'52.383"N	80°50'46.696"W		
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot F	12.98	15.32	1619654.640	336021.510	39°24'53.111"N	80°50'46.501"W
Precision 542 (RT) to Mud line (At Slot, Slot F)				18 ft		
Mean Sea Level to Mud line (At Slot, Slot F)				-99ft		
Precision 542 (RT) to Mean Sea Level				1014 ft		

Plot reference wellpath to SHR1FHS PWB New B.D.	Grid System: NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet
True vertical depths are referenced to Precision 542 (RT)	North Reference: True north
Measured depths are referenced to Precision 542 (RT)	Scale: True distance
Precision 542 (RT) to Mean Sea Level: 1014.6 feet	Depths are in feet
Mean Sea Level to Mud line (At Slot, Slot F): -99ft	Coordinates are in feet referenced to Slot
Created by: wsl/ajw on 1/27/2014	





# Actual Wellpath Report

SHR1FHS AWP Proj: 15622'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY	Slot	Slot F
Area	Tyler County, WV	Well	SHR1FHS
Field	Tyler	Wellbore	SHR1FHS AWB
Facility	SHR 1 Pad		

REPORT SETUP INFORMATION			
Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect@ 4.0.1
North Reference	True	User	Edsaryar
Scale	0.999948	Report Generated	1/27/2014 at 4:11:03 PM
Convergence at slot	n/a	Database/Source file	Well Architect Eastern US/SHR1FHS_AWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	12.98	15.32	1619654.64	336021.51	39°24'53.111"N	80°50'46.501"W
Facility Reference Pt			1619639.13	336008.76	39°24'52.983"N	80°50'46.696"W
Field Reference Pt			0.00	0.00	38°17'12.460"N	86°28'23.077"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Precision 542 (RT) to Facility Vertical Datum	18.60ft
Horizontal Reference Pt	Slot	Precision 542 (RT) to Mean Sea Level	1014.60ft
Vertical Reference Pt	Precision 542 (RT)	Precision 542 (RT) to Mud Line at Slot (Slot F)	18.60ft
MD Reference Pt	Precision 542 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	159.14°

71120-56



# Actual Wellpath Report

SHR1FHS AWP Proj: 15622'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY	Slot	Slot F
Area	Tyler County, WV	Well	SHR1FHS
Field	Tyler	Wellbore	SHR1FHS AWB
Facility	SHR 1 Pad		

**WELLPATH DATA (196 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	180.630	0.00	0.00	0.00	0.00	1619654.64	336021.51	39°24'53.111"N	80°50'46.501"W	0.00	0.000	0.00	0.00	0.00
18.60	0.000	180.630	18.60	0.00	0.00	0.00	1619654.64	336021.51	39°24'53.111"N	80°50'46.501"W	0.00	0.000	0.00	0.00	0.00
118.60	0.180	180.630	118.60	0.15	-0.16	0.00	1619654.64	336021.35	39°24'53.109"N	80°50'46.501"W	0.16	180.630	0.18	0.18	0.00
218.60	0.460	201.540	218.60	0.59	-0.69	-0.15	1619654.48	336020.82	39°24'53.104"N	80°50'46.503"W	0.70	192.374	0.30	0.28	20.91
318.60	0.350	192.270	318.60	1.14	-1.36	-0.36	1619654.26	336020.16	39°24'53.098"N	80°50'46.506"W	1.41	194.956	0.13	-0.11	-9.27
418.60	0.260	188.010	418.59	1.60	-1.88	-0.46	1619654.15	336019.63	39°24'53.092"N	80°50'46.507"W	1.94	193.722	0.09	-0.09	-4.26
518.60	0.210	145.650	518.59	1.97	-2.26	-0.39	1619654.22	336019.26	39°24'53.089"N	80°50'46.506"W	2.29	189.745	0.18	-0.05	-42.36
618.60	0.310	125.290	618.59	2.38	-2.57	-0.06	1619654.54	336018.95	39°24'53.086"N	80°50'46.502"W	2.57	181.421	0.13	0.10	-20.36
718.60	0.090	158.300	718.59	2.68	-2.80	0.19	1619654.78	336018.71	39°24'53.083"N	80°50'46.499"W	2.80	176.189	0.24	-0.22	33.01
818.60	0.140	164.240	818.59	2.88	-2.99	0.25	1619654.84	336018.52	39°24'53.082"N	80°50'46.498"W	3.00	175.244	0.05	0.05	5.94
918.60	0.080	156.800	918.59	3.07	-3.17	0.31	1619654.90	336018.34	39°24'53.080"N	80°50'46.497"W	3.18	174.427	0.06	-0.06	-7.44
1018.60	0.090	144.630	1018.59	3.22	-3.30	0.38	1619654.97	336018.21	39°24'53.078"N	80°50'46.496"W	3.32	173.387	0.02	0.01	-12.17
1118.60	0.060	153.060	1118.59	3.34	-3.41	0.45	1619655.04	336018.10	39°24'53.077"N	80°50'46.496"W	3.44	172.454	0.03	-0.03	8.43
1218.60	0.080	165.890	1218.59	3.47	-3.52	0.49	1619655.08	336017.98	39°24'53.076"N	80°50'46.495"W	3.56	172.045	0.03	0.02	12.83
1318.60	0.220	238.210	1318.59	3.57	-3.69	0.35	1619654.93	336017.82	39°24'53.075"N	80°50'46.497"W	3.71	174.645	0.21	0.14	72.32
1418.60	0.310	331.980	1418.59	3.34	-3.55	0.06	1619654.64	336017.96	39°24'53.076"N	80°50'46.501"W	3.55	179.104	0.39	0.09	93.77
1518.60	0.450	307.270	1518.59	2.74	-3.08	-0.38	1619654.21	336018.44	39°24'53.081"N	80°50'46.506"W	3.10	187.118	0.21	0.14	-24.71
1618.60	0.420	264.810	1618.59	2.30	-2.87	-1.06	1619653.54	336018.66	39°24'53.083"N	80°50'46.515"W	3.06	200.293	0.32	-0.03	-42.46
1718.60	0.130	231.060	1718.58	2.24	-2.98	-1.51	1619653.08	336018.56	39°24'53.082"N	80°50'46.521"W	3.34	206.982	0.32	-0.29	-33.75
1818.60	0.370	226.070	1818.58	2.40	-3.27	-1.84	1619652.76	336018.27	39°24'53.079"N	80°50'46.525"W	3.75	209.303	0.24	0.24	-4.99
1918.60	0.210	238.960	1918.58	2.56	-3.59	-2.23	1619652.36	336017.95	39°24'53.076"N	80°50'46.530"W	4.22	211.797	0.17	-0.16	12.89
2018.60	0.190	228.500	2018.58	2.65	-3.79	-2.51	1619652.08	336017.75	39°24'53.074"N	80°50'46.533"W	4.55	213.453	0.04	-0.02	-10.46
2118.60	0.290	223.580	2118.58	2.82	-4.09	-2.80	1619651.77	336017.47	39°24'53.071"N	80°50'46.537"W	4.96	214.465	0.10	0.10	-4.92
2218.60	0.310	217.380	2218.58	3.07	-4.48	-3.14	1619651.43	336017.07	39°24'53.067"N	80°50'46.541"W	5.48	215.028	0.04	0.02	-6.20
2318.60	0.200	204.550	2318.58	3.34	-4.86	-3.38	1619651.19	336016.70	39°24'53.063"N	80°50'46.544"W	5.92	214.828	0.12	-0.11	-12.83
2378.60	0.260	223.980	2378.58	3.47	-5.05	-3.52	1619651.05	336016.51	39°24'53.061"N	80°50'46.546"W	6.16	214.856	0.16	0.10	32.38
2482.00	0.900	211.440	2481.97	4.06	-5.91	-4.10	1619650.45	336015.66	39°24'53.053"N	80°50'46.554"W	7.20	214.767	0.63	0.62	-12.13
2571.00	0.100	49.860	2570.97	4.47	-6.46	-4.41	1619650.13	336015.12	39°24'53.047"N	80°50'46.557"W	7.82	214.321	1.12	-0.90	-181.55
2660.00	0.070	154.650	2659.97	4.49	-6.46	-4.33	1619650.22	336015.12	39°24'53.047"N	80°50'46.556"W	7.77	213.822	0.15	-0.03	117.74
2750.00	0.070	323.100	2749.97	4.50	-6.46	-4.34	1619650.21	336015.11	39°24'53.047"N	80°50'46.557"W	7.78	213.857	0.15	0.00	187.17

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# Actual Wellpath Report

SHR1FHS AWP Proj: 15622'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot F
Area	Tyler County, WV	Well	SHR1FHS
Field	Tyler	Wellbore	SHR1FHS AWB
Facility	SHR 1 Pad		

## WELLPATH DATA (196 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]
2838.00	0.040	293.980	2837.97	4.42	-6.41	-4.40	1619650.15	336015.17	39°24'53.048"N	80°50'46.557"W	7.77	214.454	0.05	-0.03	-33.09
2928.00	0.070	234.960	2927.97	4.41	-6.43	-4.47	1619650.07	336015.15	39°24'53.048"N	80°50'46.558"W	7.83	214.821	0.07	0.03	-65.58
3017.00	0.040	287.840	3016.97	4.41	-6.45	-4.55	1619650.00	336015.13	39°24'53.047"N	80°50'46.559"W	7.89	215.173	0.06	-0.03	59.42
3107.00	0.040	327.210	3106.97	4.36	-6.41	-4.59	1619649.95	336015.17	39°24'53.048"N	80°50'46.560"W	7.89	215.602	0.03	0.00	43.74
3197.00	1.290	256.940	3196.96	4.19	-6.62	-5.60	1619648.95	336014.98	39°24'53.046"N	80°50'46.573"W	8.67	220.225	1.42	1.39	-78.08
3286.00	2.410	259.510	3285.91	3.72	-7.18	-8.41	1619646.12	336014.45	39°24'53.040"N	80°50'46.608"W	11.06	229.505	1.26	1.26	2.89
3376.00	3.170	264.520	3375.81	2.72	-7.77	-12.75	1619641.78	336013.94	39°24'53.034"N	80°50'46.664"W	14.93	238.656	0.89	0.84	5.57
3465.00	5.690	269.890	3464.53	0.50	-8.01	-19.61	1619634.91	336013.80	39°24'53.032"N	80°50'46.751"W	21.18	247.787	2.87	2.83	6.03
3510.00	7.450	269.320	3509.24	-1.30	-8.05	-24.76	1619629.76	336013.83	39°24'53.031"N	80°50'46.817"W	26.04	251.995	3.91	3.91	-1.27
3555.00	9.320	268.280	3553.75	-3.50	-8.19	-31.32	1619623.20	336013.79	39°24'53.030"N	80°50'46.900"W	32.37	255.343	4.17	4.16	-2.31
3600.00	10.840	268.850	3598.06	-6.12	-8.39	-39.19	1619615.33	336013.71	39°24'53.028"N	80°50'47.001"W	40.08	257.923	3.39	3.38	1.27
3644.00	11.900	268.170	3641.19	-8.99	-8.61	-47.87	1619606.65	336013.61	39°24'53.026"N	80°50'47.111"W	48.63	259.798	2.43	2.41	-1.55
3689.00	12.420	263.430	3685.18	-11.70	-9.32	-57.31	1619597.20	336013.05	39°24'53.019"N	80°50'47.231"W	58.06	260.767	2.50	1.16	-10.53
3734.00	12.690	254.570	3729.11	-13.36	-11.18	-66.88	1619587.60	336011.33	39°24'53.000"N	80°50'47.353"W	67.81	260.506	4.32	0.60	-19.69
3779.00	13.830	247.530	3772.91	-13.68	-14.56	-76.62	1619577.82	336008.10	39°24'52.967"N	80°50'47.478"W	77.99	259.243	4.39	2.53	-15.64
3824.00	15.150	243.290	3816.48	-12.93	-19.25	-86.84	1619567.52	336003.56	39°24'52.921"N	80°50'47.608"W	88.95	257.498	3.76	2.93	-9.42
3868.00	16.430	239.730	3858.82	-11.33	-24.98	-97.35	1619556.93	335998.00	39°24'52.864"N	80°50'47.742"W	100.51	255.611	3.65	2.91	-8.09
3913.00	15.750	236.810	3902.06	-8.98	-31.53	-107.96	1619546.22	335991.61	39°24'52.799"N	80°50'47.877"W	112.47	253.721	2.35	-1.51	-6.49
3958.00	15.690	234.930	3945.38	-6.18	-38.37	-118.05	1619536.03	335984.92	39°24'52.732"N	80°50'48.005"W	124.13	251.996	1.14	-0.13	-4.18
4003.00	16.280	234.030	3988.64	-3.05	-45.57	-128.14	1619525.84	335977.87	39°24'52.661"N	80°50'48.134"W	136.00	250.424	1.42	1.31	-2.00
4050.00	17.730	234.780	4033.58	0.45	-53.57	-139.32	1619514.54	335970.04	39°24'52.582"N	80°50'48.276"W	149.26	248.969	3.12	3.09	1.60
4093.00	17.980	235.550	4074.51	3.63	-61.10	-150.14	1619503.61	335962.67	39°24'52.507"N	80°50'48.414"W	162.09	247.857	0.80	0.58	1.79
4148.00	17.630	238.430	4126.88	7.17	-70.26	-164.23	1619489.38	335953.72	39°24'52.417"N	80°50'48.594"W	178.63	246.839	1.72	-0.64	5.24
4193.00	19.610	241.960	4169.52	9.38	-77.38	-176.71	1619476.80	335946.79	39°24'52.346"N	80°50'48.753"W	192.91	246.352	5.06	4.40	7.84
4238.00	19.800	248.800	4211.89	10.37	-83.68	-190.48	1619462.94	335940.69	39°24'52.284"N	80°50'48.928"W	208.05	246.283	5.14	0.42	15.20
4328.00	19.780	267.400	4296.66	5.69	-89.89	-219.93	1619433.40	335934.93	39°24'52.223"N	80°50'49.303"W	237.59	247.769	6.97	-0.02	20.67
4418.00	19.660	273.670	4381.39	-5.37	-89.61	-250.26	1619403.08	335935.66	39°24'52.225"N	80°50'49.690"W	265.82	250.298	2.35	-0.13	6.97
4507.00	20.540	270.640	4464.97	-17.31	-88.48	-280.81	1619372.55	335937.25	39°24'52.237"N	80°50'50.079"W	294.42	252.511	1.53	0.99	-3.40
4597.00	20.610	269.370	4549.23	-28.58	-88.48	-312.44	1619340.93	335937.73	39°24'52.237"N	80°50'50.482"W	324.73	254.188	0.50	0.08	-1.41
4687.00	20.410	269.690	4633.53	-39.56	-88.74	-343.97	1619309.40	335937.94	39°24'52.234"N	80°50'50.884"W	355.23	255.534	0.25	-0.22	0.36

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# Actual Wellpath Report

SHR1FHS AWP Proj: 15622'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot F
Area	Tyler County, WV	Well	SHR1FHS
Field	Tyler	Wellbore	SHR1FHS AWB
Facility	SHR 1 Pad		

## WELLPATH DATA (196 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]
4776.00	18.750	266.340	4717.38	-49.24	-89.74	-373.77	1619279.59	335937.39	39°24'52.224"N	80°50'51.264"W	384.39	256.500	2.25	-1.87	-3.76
4866.00	19.660	265.620	4802.37	-57.81	-91.82	-403.30	1619250.03	335935.75	39°24'52.204"N	80°50'51.640"W	413.62	257.175	1.04	1.01	-0.80
4955.00	19.350	266.800	4886.26	-66.53	-93.78	-432.95	1619220.36	335934.23	39°24'52.184"N	80°50'52.018"W	442.99	257.778	0.56	-0.35	1.33
5045.00	20.410	266.770	4970.90	-75.81	-95.50	-463.51	1619189.78	335932.97	39°24'52.167"N	80°50'52.407"W	473.24	258.358	1.18	1.18	-0.03
5134.00	20.530	269.820	5054.28	-86.02	-96.42	-494.61	1619158.67	335932.52	39°24'52.158"N	80°50'52.803"W	503.92	258.969	1.21	0.13	3.43
5224.00	20.550	270.430	5138.56	-97.33	-96.35	-526.18	1619127.10	335933.06	39°24'52.159"N	80°50'53.205"W	534.93	259.623	0.24	0.02	0.68
5313.00	20.630	270.520	5221.88	-108.72	-96.09	-557.48	1619095.81	335933.79	39°24'52.161"N	80°50'53.604"W	565.70	260.220	0.10	0.09	0.10
5403.00	20.550	272.260	5306.13	-120.70	-95.33	-589.12	1619064.19	335935.03	39°24'52.169"N	80°50'54.007"W	596.78	260.809	0.69	-0.09	1.93
5493.00	20.580	272.780	5390.39	-133.24	-93.94	-620.70	1619032.63	335936.89	39°24'52.183"N	80°50'54.410"W	627.77	261.394	0.21	0.03	0.58
5582.00	17.270	269.720	5474.57	-144.16	-93.24	-649.55	1619003.80	335938.02	39°24'52.189"N	80°50'54.777"W	656.21	261.831	3.88	-3.72	-3.44
5672.00	18.500	266.130	5560.22	-153.03	-94.27	-677.15	1618976.19	335937.40	39°24'52.179"N	80°50'55.129"W	683.68	262.074	1.83	1.37	-3.99
5761.00	18.370	267.150	5644.66	-161.49	-95.92	-705.25	1618948.07	335936.17	39°24'52.163"N	80°50'55.487"W	711.74	262.255	0.39	-0.15	1.15
5851.00	18.380	259.980	5730.08	-168.55	-99.10	-733.39	1618919.89	335933.42	39°24'52.132"N	80°50'55.846"W	740.05	262.305	2.51	0.01	-7.97
5941.00	18.660	260.370	5815.42	-174.02	-103.97	-761.56	1618891.65	335928.97	39°24'52.083"N	80°50'56.204"W	768.62	262.226	0.34	0.31	0.43
6030.00	18.540	264.430	5899.77	-180.53	-107.73	-789.68	1618863.48	335925.63	39°24'52.046"N	80°50'56.563"W	796.99	262.232	1.46	-0.13	4.56
6075.00	18.500	259.870	5942.44	-183.74	-109.68	-803.83	1618849.30	335923.89	39°24'52.027"N	80°50'56.743"W	811.28	262.230	3.22	-0.09	-10.13
6120.00	18.670	251.540	5985.11	-185.37	-113.22	-817.69	1618835.39	335920.57	39°24'51.992"N	80°50'56.920"W	825.49	262.117	5.91	0.38	-18.51
6164.00	18.760	238.910	6026.80	-184.41	-119.10	-830.44	1618822.56	335914.87	39°24'51.934"N	80°50'57.082"W	838.93	261.838	9.20	0.20	-28.70
6209.00	20.090	223.080	6069.26	-179.73	-128.49	-841.92	1618810.94	335905.66	39°24'51.841"N	80°50'57.228"W	851.67	261.323	12.03	2.96	-35.18
6254.00	23.050	210.080	6111.13	-170.77	-141.77	-851.62	1618801.04	335892.53	39°24'51.710"N	80°50'57.352"W	863.34	260.549	12.46	6.58	-28.89
6298.00	26.270	201.740	6151.13	-158.17	-158.28	-859.55	1618792.86	335876.14	39°24'51.547"N	80°50'57.453"W	874.00	259.566	10.76	7.32	-18.95
6343.00	29.250	194.700	6190.95	-141.89	-178.17	-866.03	1618786.08	335856.35	39°24'51.350"N	80°50'57.535"W	884.17	258.375	9.84	6.62	-15.64
6388.00	32.330	190.850	6229.61	-122.70	-200.63	-871.09	1618780.69	335833.97	39°24'51.128"N	80°50'57.600"W	893.89	257.030	8.12	6.84	-8.56
6433.00	35.470	186.590	6266.96	-100.87	-225.43	-874.85	1618776.56	335809.23	39°24'50.883"N	80°50'57.648"W	903.43	255.551	8.75	6.98	-9.47
6478.00	38.690	183.340	6302.86	-76.45	-252.45	-877.17	1618773.83	335782.25	39°24'50.616"N	80°50'57.677"W	912.78	253.944	8.37	7.16	-7.22
6522.00	42.790	179.790	6336.20	-49.90	-281.14	-877.92	1618772.66	335753.57	39°24'50.332"N	80°50'57.687"W	921.83	252.243	10.70	9.32	-8.07
6567.00	47.430	176.890	6367.95	-19.80	-312.99	-876.96	1618773.13	335721.71	39°24'50.017"N	80°50'57.675"W	931.14	250.358	11.27	10.31	-6.44
6612.00	51.650	174.120	6397.15	13.05	-347.11	-874.25	1618775.33	335687.56	39°24'49.680"N	80°50'57.640"W	940.64	248.345	10.48	9.38	-6.16
6657.00	56.680	171.380	6423.49	48.49	-383.28	-869.63	1618779.42	335651.33	39°24'49.323"N	80°50'57.581"W	950.34	246.215	12.22	11.18	-6.09
6702.00	62.000	169.250	6446.43	86.46	-421.41	-863.10	1618785.37	335613.10	39°24'48.946"N	80°50'57.498"W	960.48	243.976	12.50	11.82	-4.73

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# Actual Wellpath Report

SHRIFHS AWP Proj: 15622'  
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REFERENCE WELLPATH IDENTIFICATION					
Operator	NOBLE ENERGY			Slot	Slot F
Area	Tyler County, WV			Well	SHRIFHS
Field	Tyler			Wellbore	SHRIFHS AWB
Facility	SHR 1 Pad				

### WELLPATH DATA (196 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]
6747.00	65.120	167.670	6466.46	126.21	-460.88	-855.03	1618792.85	335573.51	39°24'48.556"N	80°50'57.395"W	971.33	241.674	7.61	6.93	-3.51
6791.00	63.360	166.640	6485.59	165.45	-499.52	-846.22	1618801.07	335534.75	39°24'48.174"N	80°50'57.283"W	982.66	239.447	4.52	-4.00	-2.34
6836.00	66.990	165.510	6504.48	205.98	-539.15	-836.39	1618810.31	335494.98	39°24'47.782"N	80°50'57.158"W	995.10	237.194	8.38	8.07	-2.51
6881.00	71.610	164.340	6520.38	247.85	-579.78	-825.44	1618820.65	335454.19	39°24'47.381"N	80°50'57.018"W	1008.71	234.916	10.55	10.27	-2.60
6926.00	76.480	163.350	6532.74	290.96	-621.33	-813.40	1618832.07	335412.47	39°24'46.970"N	80°50'56.865"W	1023.56	232.625	11.03	10.82	-2.20
6971.00	81.850	162.960	6541.20	335.03	-663.61	-800.60	1618844.23	335370.00	39°24'46.552"N	80°50'56.702"W	1039.87	230.345	11.96	11.93	-0.87
7015.00	84.920	162.850	6546.27	378.64	-705.38	-787.75	1618856.45	335328.05	39°24'46.139"N	80°50'56.538"W	1057.41	228.157	6.98	6.98	-0.25
7060.00	84.950	162.710	6550.24	423.38	-748.20	-774.48	1618869.08	335285.04	39°24'45.716"N	80°50'56.369"W	1076.86	225.989	0.32	0.07	-0.31
7105.00	84.570	162.130	6554.35	468.11	-790.92	-760.94	1618881.97	335242.13	39°24'45.294"N	80°50'56.196"W	1097.54	223.894	1.54	-0.84	-1.29
7149.00	86.120	161.210	6557.92	511.92	-832.55	-747.15	1618895.14	335200.30	39°24'44.882"N	80°50'56.021"W	1118.65	221.906	4.09	3.52	-2.09
7194.00	89.910	160.470	6559.48	556.87	-875.02	-732.40	1618909.26	335157.61	39°24'44.463"N	80°50'55.833"W	1141.08	219.929	8.58	8.42	-1.64
7284.00	89.630	153.630	6559.84	646.75	-957.85	-697.32	1618943.08	335074.27	39°24'43.644"N	80°50'55.386"W	1184.79	216.055	7.61	-0.31	-7.60
7373.00	90.030	152.600	6560.11	735.26	-1037.22	-657.08	1618982.13	334994.30	39°24'42.860"N	80°50'54.873"W	1227.84	212.354	1.24	0.45	-1.16
7463.00	89.940	155.100	6560.13	824.87	-1118.01	-617.42	1619020.57	334912.94	39°24'42.061"N	80°50'54.368"W	1277.16	208.910	2.78	-0.10	2.78
7552.00	89.910	160.160	6560.25	913.81	-1200.28	-583.55	1619053.20	334830.17	39°24'41.248"N	80°50'53.936"W	1334.62	205.928	5.69	-0.03	5.69
7641.00	89.750	163.750	6560.51	1002.69	-1284.89	-555.99	1619079.49	334745.17	39°24'40.412"N	80°50'53.585"W	1400.02	203.399	4.04	-0.18	4.03
7731.00	90.250	164.330	6560.51	1092.36	-1371.42	-531.24	1619102.94	334658.28	39°24'39.557"N	80°50'53.270"W	1470.72	201.175	0.85	0.56	0.64
7821.00	90.310	162.410	6560.07	1182.11	-1457.65	-505.49	1619127.39	334571.68	39°24'38.704"N	80°50'52.941"W	1542.81	199.126	2.13	0.07	-2.13
7910.00	90.250	159.650	6559.64	1271.05	-1541.81	-476.56	1619155.06	334487.10	39°24'37.873"N	80°50'52.573"W	1613.78	197.176	3.10	-0.07	-3.10
8000.00	89.450	158.210	6559.87	1361.05	-1625.79	-444.21	1619186.15	334402.65	39°24'37.043"N	80°50'52.161"W	1685.38	195.282	1.83	-0.89	-1.60
8089.00	90.090	158.100	6560.23	1450.03	-1708.39	-411.09	1619218.02	334319.56	39°24'36.226"N	80°50'51.739"W	1757.16	193.530	0.73	0.72	-0.12
8179.00	89.880	159.550	6560.25	1540.03	-1792.32	-378.58	1619249.27	334235.17	39°24'35.397"N	80°50'51.325"W	1831.86	191.927	1.63	-0.23	1.61
8268.00	89.970	152.940	6560.37	1628.87	-1873.73	-342.75	1619283.87	334153.23	39°24'34.592"N	80°50'50.868"W	1904.82	190.366	7.43	0.10	-7.43
8358.00	89.600	152.040	6560.71	1718.26	-1953.55	-301.18	1619324.24	334072.80	39°24'33.803"N	80°50'50.338"W	1976.63	188.764	1.08	-0.41	-1.00
8447.00	89.780	153.370	6561.19	1806.69	-2032.64	-260.37	1619363.86	333993.11	39°24'33.021"N	80°50'49.818"W	2049.25	187.299	1.51	0.20	1.49
8537.00	90.180	155.300	6561.22	1896.37	-2113.76	-221.39	1619401.62	333911.42	39°24'32.220"N	80°50'49.322"W	2125.32	185.979	2.19	0.44	2.14
8627.00	90.180	164.270	6560.94	1986.28	-2198.13	-190.32	1619431.41	333826.60	39°24'31.386"N	80°50'48.926"W	2206.35	184.949	9.97	0.00	9.97
8717.00	90.120	163.610	6560.70	2075.96	-2284.61	-165.42	1619455.01	333739.76	39°24'30.531"N	80°50'48.609"W	2290.59	184.141	0.74	-0.07	-0.73
8806.00	90.120	162.930	6560.51	2164.73	-2369.85	-139.80	1619479.35	333654.15	39°24'29.689"N	80°50'48.282"W	2373.97	183.376	0.76	0.00	-0.76
8896.00	90.030	157.520	6560.40	2254.68	-2454.51	-109.37	1619508.51	333569.05	39°24'28.852"N	80°50'47.895"W	2456.94	182.551	6.01	-0.10	-6.01

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# Actual Wellpath Report

SHR1FHS AWP Proj: 15622'  
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### REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot F
Area	Tyler County, WV	Well	SHR1FHS
Field	Tyler	Wellbore	SHR1FHS AWB
Facility	SHR 1 Pad		

### WELLPATH DATA (196 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]
8985.00	90.000	154.970	6560.37	2343.56	-2535.96	-73.52	1619543.14	333487.08	39°24'28.047"N	80°50'47.438"W	2537.02	181.661	2.87	-0.03	-2.87
9075.00	90.250	149.480	6560.18	2432.87	-2615.56	-31.59	1619583.86	333406.86	39°24'27.260"N	80°50'46.904"W	2615.75	180.692	6.11	0.28	-6.10
9165.00	90.180	159.370	6559.84	2522.45	-2696.64	7.21	1619621.44	333325.21	39°24'26.459"N	80°50'46.409"W	2696.65	179.847	10.99	-0.08	10.99
9254.00	90.030	166.640	6559.67	2611.19	-2781.70	33.21	1619646.16	333239.78	39°24'25.618"N	80°50'46.078"W	2781.89	179.316	8.17	-0.17	8.17
9344.00	89.750	163.360	6559.85	2700.71	-2868.62	56.50	1619668.14	333152.52	39°24'24.759"N	80°50'45.782"W	2869.17	178.872	3.66	-0.31	-3.64
9433.00	89.540	163.890	6560.40	2789.43	-2954.00	81.59	1619691.95	333066.78	39°24'23.915"N	80°50'45.462"W	2955.13	178.418	0.64	-0.24	0.60
9523.00	89.600	162.070	6561.07	2879.22	-3040.06	107.93	1619717.00	332980.34	39°24'23.065"N	80°50'45.126"W	3041.97	177.967	2.02	0.07	-2.02
9613.00	89.480	160.870	6561.80	2969.14	-3125.39	136.53	1619744.32	332894.60	39°24'22.221"N	80°50'44.762"W	3128.37	177.499	1.34	-0.13	-1.33
9703.00	89.420	155.060	6562.66	3059.08	-3208.77	170.28	1619776.81	332810.72	39°24'21.397"N	80°50'44.332"W	3213.29	176.962	6.46	-0.07	-6.46
9792.00	89.630	156.110	6563.40	3147.91	-3289.81	207.06	1619812.38	332729.15	39°24'20.596"N	80°50'43.863"W	3296.32	176.398	1.20	0.24	1.18
9882.00	89.690	166.580	6563.94	3237.71	-3374.96	235.81	1619839.84	332643.58	39°24'19.755"N	80°50'43.497"W	3383.19	176.003	11.63	0.07	11.63
9971.00	90.220	179.750	6564.01	3323.87	-3463.13	246.38	1619849.09	332555.26	39°24'18.883"N	80°50'43.363"W	3471.89	175.931	14.81	0.60	14.80
10061.00	90.000	178.220	6563.83	3408.52	-3553.12	247.97	1619849.33	332465.27	39°24'17.994"N	80°50'43.342"W	3561.76	176.008	1.72	-0.24	-1.70
10150.00	90.030	168.030	6563.81	3494.77	-3641.36	258.61	1619858.65	332376.88	39°24'17.122"N	80°50'43.207"W	3650.53	175.938	11.45	0.03	-11.45
10240.00	90.000	162.760	6563.79	3584.20	-3728.42	281.30	1619880.03	332289.49	39°24'16.261"N	80°50'42.918"W	3739.02	175.685	5.86	-0.03	-5.86
10330.00	90.000	156.390	6563.79	3674.15	-3812.72	312.69	1619910.15	332204.74	39°24'15.428"N	80°50'42.518"W	3825.52	175.311	7.08	0.00	-7.08
10419.00	90.180	156.000	6563.65	3763.04	-3894.15	348.61	1619944.85	332122.79	39°24'14.623"N	80°50'42.060"W	3909.72	174.884	0.48	0.20	-0.44
10508.00	90.120	152.390	6563.41	3851.69	-3974.26	387.35	1619982.38	332042.11	39°24'13.831"N	80°50'41.567"W	3993.09	174.433	4.06	-0.07	-4.06
10597.00	90.090	153.450	6563.25	3940.17	-4053.50	427.87	1620021.70	331962.27	39°24'13.048"N	80°50'41.051"W	4076.02	173.974	1.19	-0.03	1.19
10687.00	90.150	153.160	6563.06	4029.70	-4133.91	468.30	1620060.92	331881.27	39°24'12.253"N	80°50'40.536"W	4160.35	173.537	0.33	0.07	-0.32
10776.00	90.180	152.160	6562.80	4118.13	-4212.97	509.17	1620100.60	331801.62	39°24'11.472"N	80°50'40.015"W	4243.62	173.109	1.12	0.03	-1.12
10866.00	90.120	148.760	6562.57	4207.08	-4291.25	553.54	1620143.79	331722.68	39°24'10.698"N	80°50'39.450"W	4326.81	172.650	3.78	-0.07	-3.78
10955.00	90.150	150.880	6562.36	4294.90	-4368.19	598.28	1620187.36	331645.09	39°24'09.938"N	80°50'38.880"W	4408.97	172.201	2.38	0.03	2.38
11045.00	90.280	155.710	6562.02	4384.41	-4448.56	638.71	1620226.59	331564.12	39°24'09.144"N	80°50'38.365"W	4494.18	171.829	5.37	0.14	5.37
11134.00	90.370	155.070	6561.52	4473.22	-4529.48	675.77	1620262.43	331482.66	39°24'08.344"N	80°50'37.893"W	4579.61	171.514	0.73	0.10	-0.72
11224.00	90.340	156.600	6560.96	4563.06	-4611.59	712.61	1620298.04	331400.02	39°24'07.532"N	80°50'37.423"W	4666.32	171.216	1.70	-0.03	1.70
11313.00	90.310	158.590	6560.45	4652.02	-4693.86	746.53	1620330.72	331317.25	39°24'06.719"N	80°50'36.991"W	4752.86	170.963	2.24	-0.03	2.24
11403.00	90.280	159.440	6559.99	4742.02	-4777.89	778.76	1620361.68	331232.75	39°24'05.889"N	80°50'36.581"W	4840.94	170.743	0.95	-0.03	0.94
11492.00	90.220	162.190	6559.60	4830.97	-4861.94	808.01	1620389.66	331148.28	39°24'05.058"N	80°50'36.208"W	4928.62	170.564	3.09	-0.07	3.09
11582.00	90.280	165.210	6559.21	4920.68	-4948.31	833.27	1620413.62	331061.54	39°24'04.204"N	80°50'35.887"W	5017.98	170.441	3.36	0.07	3.36

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# Actual Wellpath Report

SHR1FHS AWP Proj: 15622'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	NOBLE ENERGY	Slot	Slot F
Area	Tyler County, WV	Well	SHR1FHS
Field	Tyler	Wellbore	SHR1FHS AWB
Facility	SHR 1 Pad		

## WELLPATH DATA (196 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]
11671.00	90.340	162.020	6558.73	5009.39	-5033.68	858.37	1620437.44	330975.80	39°24'03.360"N	80°50'35.567"W	5106.35	170.323	3.58	0.07	-3.58
11760.00	90.340	158.580	6558.20	5098.36	-5117.46	888.36	1620466.18	330891.59	39°24'02.532"N	80°50'35.185"W	5194.00	170.152	3.87	0.00	-3.87
11850.00	90.310	161.220	6557.69	5188.34	-5201.97	919.29	1620495.83	330806.63	39°24'01.697"N	80°50'34.791"W	5282.57	169.978	2.93	-0.03	2.93
11939.00	90.250	163.600	6557.25	5277.19	-5286.80	946.18	1620521.45	330721.41	39°24'00.859"N	80°50'34.448"W	5370.80	169.853	2.67	-0.07	2.67
12029.00	90.280	164.430	6556.84	5366.86	-5373.32	970.97	1620544.93	330634.54	39°24'00.004"N	80°50'34.133"W	5460.34	169.757	0.92	0.03	0.92
12119.00	89.910	163.760	6556.69	5456.53	-5459.87	995.63	1620568.30	330547.63	39°23'59.148"N	80°50'33.818"W	5549.91	169.665	0.85	-0.41	-0.74
12208.00	89.850	160.600	6556.87	5545.39	-5544.59	1022.87	1620594.25	330462.52	39°23'58.311"N	80°50'33.472"W	5638.15	169.548	3.55	-0.07	-3.55
12298.00	90.060	156.560	6556.95	5635.37	-5628.36	1055.73	1620625.86	330378.27	39°23'57.483"N	80°50'33.053"W	5726.52	169.376	4.49	0.23	-4.49
12388.00	89.850	154.350	6557.02	5725.18	-5710.22	1093.11	1620662.01	330295.86	39°23'56.674"N	80°50'32.577"W	5813.91	169.163	2.47	-0.23	-2.46
12477.00	89.820	155.920	6557.27	5813.96	-5790.97	1130.53	1620698.21	330214.57	39°23'55.876"N	80°50'32.100"W	5900.29	168.953	1.76	-0.03	1.76
12565.00	90.890	159.910	6556.73	5901.91	-5872.49	1163.61	1620730.06	330132.56	39°23'55.070"N	80°50'31.679"W	5986.66	168.792	4.69	1.22	4.53
12656.00	89.780	157.840	6556.19	5992.91	-5957.37	1196.41	1620761.58	330047.21	39°23'54.231"N	80°50'31.261"W	6076.32	168.644	2.58	-1.22	-2.27
12746.00	89.970	153.820	6556.39	6082.74	-6039.46	1233.25	1620797.19	329964.58	39°23'53.420"N	80°50'30.792"W	6164.09	168.459	4.47	0.21	-4.47
12835.00	89.910	153.470	6556.48	6171.33	-6119.21	1272.76	1620835.49	329884.25	39°23'52.631"N	80°50'30.289"W	6250.17	168.250	0.40	-0.07	-0.39
12925.00	89.880	154.010	6556.65	6260.93	-6199.92	1312.58	1620874.10	329802.95	39°23'51.834"N	80°50'29.782"W	6337.34	168.046	0.60	-0.03	0.60
13014.00	89.940	158.150	6556.79	6349.78	-6281.26	1348.66	1620908.95	329721.09	39°23'51.030"N	80°50'29.322"W	6424.41	167.882	4.65	0.07	4.65
13104.00	89.970	159.270	6556.86	6439.78	-6365.12	1381.33	1620940.37	329636.76	39°23'50.201"N	80°50'28.906"W	6513.28	167.756	1.24	0.03	1.24
13194.00	90.030	159.610	6556.86	6529.78	-6449.38	1412.94	1620970.71	329552.03	39°23'49.368"N	80°50'28.503"W	6602.34	167.643	0.38	0.07	0.38
13283.00	90.000	159.940	6556.84	6618.77	-6532.90	1443.71	1621000.22	329468.07	39°23'48.543"N	80°50'28.111"W	6690.52	167.538	0.37	-0.03	0.37
13373.00	89.910	160.170	6556.91	6708.76	-6617.50	1474.41	1621029.65	329383.02	39°23'47.706"N	80°50'27.720"W	6779.76	167.439	0.27	-0.10	0.26
13462.00	89.880	158.840	6557.07	6797.75	-6700.86	1505.57	1621059.55	329299.21	39°23'46.882"N	80°50'27.324"W	6867.92	167.337	1.49	-0.03	-1.49
13552.00	89.970	158.470	6557.19	6887.75	-6784.69	1538.33	1621091.05	329214.90	39°23'46.054"N	80°50'26.906"W	6956.90	167.225	0.42	0.10	-0.41
13642.00	89.750	159.590	6557.41	6977.75	-6868.73	1570.54	1621121.99	329130.40	39°23'45.223"N	80°50'26.496"W	7045.99	167.121	1.27	-0.24	1.24
13731.00	89.880	162.000	6557.70	7066.71	-6952.77	1599.81	1621150.00	329045.93	39°23'44.393"N	80°50'26.123"W	7134.45	167.042	2.71	0.15	2.71
13820.00	89.780	165.250	6557.96	7155.42	-7038.14	1624.90	1621173.81	328960.19	39°23'43.549"N	80°50'25.804"W	7223.28	167.000	3.65	-0.11	3.65
13910.00	89.820	166.740	6558.27	7244.77	-7125.47	1646.68	1621194.27	328872.56	39°23'42.686"N	80°50'25.527"W	7313.26	166.988	1.66	0.04	1.66
14000.00	89.880	165.650	6558.51	7334.09	-7212.87	1668.15	1621214.44	328784.85	39°23'41.822"N	80°50'25.253"W	7403.25	166.978	1.21	0.07	-1.21
14090.00	89.910	163.300	6558.67	7423.69	-7299.58	1692.24	1621237.22	328697.80	39°23'40.965"N	80°50'24.946"W	7493.16	166.948	2.61	0.03	-2.61
14179.00	89.850	164.110	6558.86	7512.41	-7385.00	1717.21	1621260.91	328612.01	39°23'40.121"N	80°50'24.628"W	7582.02	166.910	0.91	-0.07	0.91
14269.00	89.970	160.200	6559.00	7602.27	-7470.65	1744.79	1621287.19	328525.96	39°23'39.274"N	80°50'24.277"W	7671.70	166.854	4.35	0.13	-4.34

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# Actual Wellpath Report

SHR1FHS AWP Proj: 15622'  
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REFERENCE WELLPATH IDENTIFICATION					
Operator	NOBLE ENERGY			Slot	Slot F
Area	Tyler County, WV			Well	SHR1FHS
Field	Tyler			Wellbore	SHR1FHS AWB
Facility	SHR 1 Pad				

WELLPATH DATA (196 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]
14358.00	89.910	157.180	6559.10	7691.26	-7553.56	1777.13	1621318.29	328442.58	39°23'38.455"N	80°50'23.865"W	7759.79	166.761	3.39	-0.07	-3.39
14448.00	89.880	157.250	6559.26	7781.21	-7636.53	1811.98	1621351.89	328359.10	39°23'37.635"N	80°50'23.421"W	7848.56	166.652	0.08	-0.03	0.08
14537.00	90.000	157.440	6559.35	7870.16	-7718.67	1846.26	1621384.94	328276.47	39°23'36.823"N	80°50'22.985"W	7936.40	166.548	0.25	0.13	0.21
14627.00	89.970	157.060	6559.38	7960.11	-7801.66	1881.07	1621418.49	328192.96	39°23'36.002"N	80°50'22.542"W	8025.23	166.444	0.42	-0.03	-0.42
14717.00	89.880	155.450	6559.50	8050.00	-7884.04	1917.30	1621453.49	328110.05	39°23'35.188"N	80°50'22.080"W	8113.83	166.332	1.79	-0.10	-1.79
14806.00	89.940	152.690	6559.63	8138.64	-7964.08	1956.22	1621491.20	328029.45	39°23'34.397"N	80°50'21.585"W	8200.81	166.200	3.10	0.07	-3.10
14896.00	89.910	154.020	6559.75	8228.18	-8044.52	1996.58	1621530.35	327948.42	39°23'33.602"N	80°50'21.071"W	8288.58	166.061	1.48	-0.03	1.48
14985.00	89.850	155.420	6559.94	8316.91	-8124.99	2034.58	1621567.14	327867.39	39°23'32.807"N	80°50'20.587"W	8375.86	165.942	1.57	-0.07	1.57
15075.00	89.850	153.940	6560.17	8406.64	-8206.34	2073.07	1621604.40	327785.47	39°23'32.003"N	80°50'20.096"W	8464.14	165.823	1.64	0.00	-1.64
15165.00	90.120	159.820	6560.20	8496.53	-8289.08	2108.40	1621638.48	327702.22	39°23'31.185"N	80°50'19.647"W	8553.02	165.729	6.54	0.30	6.53
15254.00	90.550	159.310	6559.68	8585.52	-8372.47	2139.47	1621668.30	327618.37	39°23'30.361"N	80°50'19.251"W	8641.51	165.666	0.75	0.48	-0.57
15344.00	90.430	154.350	6558.91	8675.42	-8455.19	2174.87	1621702.45	327535.15	39°23'29.543"N	80°50'18.800"W	8730.42	165.575	5.51	-0.13	-5.51
15434.00	90.370	149.160	6558.28	8764.64	-8534.44	2217.45	1621743.84	327455.27	39°23'28.760"N	80°50'18.258"W	8817.81	165.435	5.77	-0.07	-5.77
15523.00	90.310	148.740	6557.75	8852.23	-8610.69	2263.35	1621788.59	327378.34	39°23'28.006"N	80°50'17.673"W	8903.18	165.273	0.48	-0.07	-0.47
15598.00	90.370	150.730	6557.31	8926.22	-8675.46	2301.15	1621825.41	327313.02	39°23'27.366"N	80°50'17.192"W	8975.46	165.145	2.65	0.08	2.65
15622.00	90.370	150.730	6557.15	8949.96	-8696.40	2312.88	1621836.83	327291.91	39°23'27.159"N	80°50'17.043"W	8998.71	165.106	0.00	0.00	0.00

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# Actual Wellpath Report

SHR1FHS AWP Proj: 15622'  
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### REFERENCE WELLPATH IDENTIFICATION

Operator	NOBLE ENERGY	Slot	Slot F
Area	Tyler County, WV	Well	SHR1FHS
Field	Tyler	Wellbore	SHR1FHS AWB
Facility	SHR 1 Pad		

### TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SHR1FHS BHL Rev-2		6559.00	-8717.09	2269.59	1621793.23	327271.87	39°23'26.954"N	80°50'17.594"W	point
SHR1FHS LP Rev-2		6559.00	-778.73	-761.68	1618881.42	335254.32	39°24'45.414"N	80°50'56.206"W	point
SHR-1 LL		7000.00	0.00	0.00	1619654.64	336021.51	39°24'53.111"N	80°50'46.501"W	polygon

### WELLPATH COMPOSITION - Ref Wellbore: SHR1FHS AWB Ref Wellpath: SHR1FHS AWP Proj: 15622'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.60	2378.60	Generic gyro - northseeking (Standard)	01_VES Gyro (100'-2360')	SHR1FHS AWB
2378.60	15598.00	NaviTrak (MagCorr)	02_BHI AT Curve <8-3/4"> (2378.6')(2482'-15598')	SHR1FHS AWB
15598.00	15622.00	Blind Drilling (std)	Projection to bit	SHR1FHS AWB

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# Actual Wellpath Report

SHR1FHS AWP Proj: 15622'

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## REFERENCE WELLPATH IDENTIFICATION

		Slot	Slot F
Operator	NOBLE ENERGY		
Area	Tyler County, WV	Well	SHR1FHS
Field	Tyler	Wellbore	SHR1FHS AWB
Facility	SHR 1 Pad		

## COMMENTS

Wellpath general comments  
API: 47-095-02114-0000  
BHI Job #: 6076157  
Rig: Precision 542  
Duration: 1/14/2014-1/22/2014  
VES Gyro (100'-2360')  
BHI AT Curve <8-3/4"> (2378.6')(2482'-15598')  
Projected MD at TD: 15622'

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